

WEATHER REPORTING
MESSAGES MÉTÉOROLOGIQUES
МЕТЕОРОЛОГИЧЕСКИЕ СООБЩЕНИЯ
INFORMES METEOROLOGICOS

VOLUME/TOM/VOLUMEN D

INFORMATION FOR SHIPPING
RENSEIGNEMENTS POUR LA NAVIGATION MARITIME
CATALOGUE DES BULLETINS MÉTÉOROLOGIQUES
МЕТЕОРОЛОГИЧЕСКИЕ СООБЩЕНИЯ ИНФОРМАЦИЯ ДЛЯ СУДОХОДСТВА
INFORMACIÓN PARA LA NAVEGACIÓN MARÍTIMA

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World Meteorological Organization
Organisation météorologique mondiale
Всемирная Метеорологическая Организация
Organización Meteorológica Mundial

WMO/OMM/BMO No. 9

Weather • Climate • Water

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General Information

This Volume includes marine meteorological and other related geophysical information necessary for safe and economic conduct of shipping operations, as well as for fishing and other marine activities.

To ensure complete area coverage and adequacy of services, the Oceans and Seas have been divided into METAREAS. This Chapter provides charts indicating the limits of METAREAS together with the area co-ordinates followed by the transmission schedule for the full GMDSS service.

The GMDSS of the International Maritime Organization (IMO) entered into force on 1 February 1992. The high seas marine broadcast system for the GMDSS, which operates through the International SafetyNET Service of INMARSAT, was also implemented from this date.

The GMDSS provides for urgency and safety communications and the promulgation of maritime safety information (navigational and meteorological warnings and forecasts and other urgent safety information).

For some ocean areas, the full GMDSS service is not yet implemented because of technical reasons related to access to the appropriate CES. For these areas, an interim urgent meteorological warning information service has been put in place.

For the purpose of the preparation and issue of meteorological warnings and the regular preparation and issue of weather and sea bulletins, the oceans and seas are divided into areas for which National Meteorological Services assume responsibility. The areas of responsibility together provide complete coverage of oceans and seas by meteorological information contained in warnings and weather and sea bulletins for the high seas. The areas of responsibility as defined in the world map represents a minimum requirement for issuing and preparation services.

Preparation Service: Is a National Meteorological Service which has accepted responsibility for the preparation of forecasts and warnings for parts of, or an entire, designated area (METAREA) in the WMO system for the dissemination of meteorological forecasts and warnings to shipping under the GMDSS and for their transfer to the relevant issuing service for broadcast.

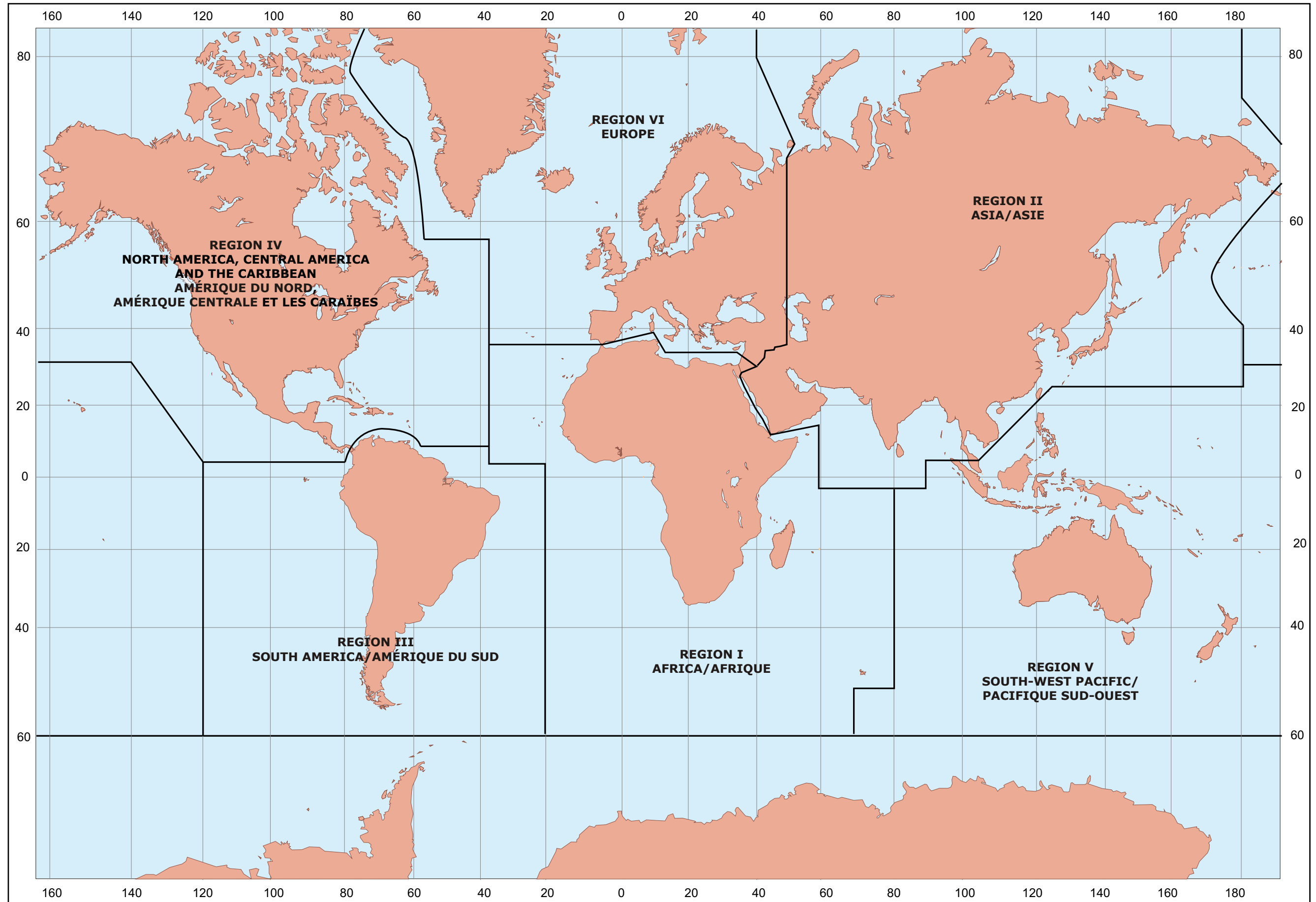
Notification of Changes

In seeking to maintain a high standard of accuracy in the material published in *Volume D*, the WMO Secretariat depends entirely on the goodwill of the meteorological services throughout the world. Their co-operation in keeping the Secretariat fully informed of all changes is a decisive factor in attaining this aim.

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WORLD METEOROLOGICAL ORGANIZATION REGIONS



ANNEX I

INDEX OF STATIONS BY METAREA

ANNEX II

INDEX OF STATIONS BY COUNTRY

Annex I - Index of Stations by METAREA

MODE OF TRANSMISSION

METAREA: ANTARCTICA

UNITED STATES OF AMERICA

Palmer Station

			HFnb
--	--	--	------

METAREA: I

BELGIUM

Antwerpen Radio

DSC			
-----	--	--	--

Oostende

	NAV		
--	-----	--	--

Oostende Radio

DSC			
-----	--	--	--

DENMARK AND FAROE ISLANDS

Lyngby

DSC			
-----	--	--	--

Skamlebaek (KØBENHAVN)

		FAX	
--	--	-----	--

Tórshavn Radio (Faeroes)

DSC	NAV		
-----	-----	--	--

ESTONIA

Tallinn

DSC	NAV		
-----	-----	--	--

FINLAND

Turku (MRCC)

DSC			
-----	--	--	--

FRANCE

Gris Nez (CROSS)

DSC			
-----	--	--	--

Jobourg (CROSS) (MRCC)

DSC			
-----	--	--	--

GERMANY

Bremen Radio (MRCC)

DSC			
-----	--	--	--

Offenbach (Main)-Hamburg/Pinneberg (broadcast for shipping)

		FAX	
--	--	-----	--

Pinneberg

	NAV		
--	-----	--	--

GREENLAND (KALAALLIT NUNAAT)

Ammassalik

DSC			
-----	--	--	--

GUERNSEY

Saint Peter Port

DSC			
-----	--	--	--

ICELAND

Grindavik

	NAV		
--	-----	--	--

Hornafjörður

DSC			
-----	--	--	--

Isafjörður

DSC			
-----	--	--	--

Nes Radio (Neskaupstadur)

DSC			
-----	--	--	--

Reykjavík

DSC			
-----	--	--	--

Saudanes

	NAV		
--	-----	--	--

Siglufjörður

DSC			
-----	--	--	--

Vestmannaeyjar

DSC			
-----	--	--	--

IRELAND

Dublin (MRCC)

DSC			
-----	--	--	--

Malin Head (MRSC)

DSC	NAV		
-----	-----	--	--

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Valentia (MRSC)

DSC	NAV		
-----	-----	--	--

JERSEY

Jersey Radio

DSC			
-----	--	--	--

Saint Helier Pierheads

DSC			
-----	--	--	--

LATVIA

Riga Rescue Radio (MRCC)

DSC			
-----	--	--	--

LITHUANIA

Klaipeda (Radio 5) Klaipeda State Seaport Authority Harbour Master Office

DSC			
-----	--	--	--

NETHERLANDS

Den Helder

	NAV		
--	-----	--	--

Netherlands Coastguard Radio

DSC			
-----	--	--	--

NORWAY

Bjørnøya

DSC			
-----	--	--	--

Bjørnøya Meteo Radio

DSC			
-----	--	--	--

Bodø Radio

DSC			
-----	--	--	--

Florø Radio

DSC			
-----	--	--	--

Høpen Meteo Radio

DSC			
-----	--	--	--

Jan Mayen

DSC			
-----	--	--	--

Jan Mayen Meteo Radio

DSC			
-----	--	--	--

Jeløya

	NAV		
--	-----	--	--

Ørlandet

	NAV		
--	-----	--	--

Rogaland

	NAV		
--	-----	--	--

Rogaland Radio

DSC			
-----	--	--	--

Svalbard Radio

DSC			
-----	--	--	--

Tjøme Radio

DSC			
-----	--	--	--

Vardø Radio

DSC			
-----	--	--	--

POLAND

Slupsk

DSC			
-----	--	--	--

Witowo Radio

DSC			
-----	--	--	--

Zatoka Gdansk - Vessel Traffic Services

DSC			
-----	--	--	--

RUSSIAN FEDERATION (EUROPE)

Kaliningrad

DSC			HFnbd
-----	--	--	-------

Murmansk

		FAX	HFnbd
--	--	-----	-------

SWEDEN

Bjuröklubb

	NAV		
--	-----	--	--

Gislovshammer

	NAV		
--	-----	--	--

Grimeton

	NAV		
--	-----	--	--

Stockholm

DSC			
-----	--	--	--

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Aberdeen (MRCC)

DSC			
-----	--	--	--

Belfast (MRSC)

DSC			
-----	--	--	--

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBPD

MODE OF TRANSMISSION

Brixham (MRSC)
 Clyde (MRCC)
 Cullercoats
 Dover (MRCC)
 Falmouth (MRCC)
 Forth (MRSC)
 Holyhead (MRSC)
 Humber (MRCC)
 Liverpool (MRSC)
 Milford Haven (MRSC)
 Niton
 Niton (France)
 Northwood
 Portland (MRSC)
 Portpatrick
 Shetland (MRSC)
 Solent (MRSC)
 Stornoway (MRSC)
 Swansea (MRCC)
 Thames (MRCC)
 Yarmouth (MRCC)

DSC			
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
	NAV		
	NAV		
		FAX	
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			

METAREA: II

BENIN

Cotonou

DSC			
-----	--	--	--

CABO VERDE

Sao Vicente

	NAV		
--	-----	--	--

CONGO

Pointe Noire

DSC			
-----	--	--	--

COTE D'IVOIRE

Abidjan Radio

DSC			
-----	--	--	--

FRANCE

Corsen (CROSS) (MRCC)

Étel (CROSS) (MRCC)

DSC	NAV		
-----	-----	--	--

DSC			
-----	--	--	--

GHANA

Tema Radio

DSC			
-----	--	--	--

GUINEA

Conakry

DSC			
-----	--	--	--

MOROCCO

Agadir

Casablanca

Dakhla

DSC			
-----	--	--	--

DSC			
-----	--	--	--

DSC			
-----	--	--	--

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Safi

DSC			
DSC			

Tanger

PORTUGAL

Cte. Nunes Ribeiro (Radionaval)

DSC			
-----	--	--	--

Faro (Radionaval)

DSC			
-----	--	--	--

Leixões (Radionaval)

DSC			
-----	--	--	--

Monsanto (Alges)

	NAV		
--	-----	--	--

PORTUGAL (AZORES)

Delgada (MRCC)

DSC			
-----	--	--	--

Horta

	NAV		
--	-----	--	--

Horta (Radionaval)

DSC			
-----	--	--	--

PORTUGAL (MADEIRA)

Porto Santo (Radionaval)

DSC			
-----	--	--	--

SENEGAL

Dakar

	NAV	FAX	
--	-----	-----	--

SPAIN

Algeciras (MRSC)

DSC			
-----	--	--	--

Bilbao (CCR)

DSC			
-----	--	--	--

Bilbao (MRCC)

DSC			
-----	--	--	--

Cádiz (MRSC)

DSC			
-----	--	--	--

Coruña (CCR)

DSC			
-----	--	--	--

Coruña (MRSC)

DSC	NAV		
-----	-----	--	--

Finisterre (MRCC)

DSC			
-----	--	--	--

Gijón (MRCC)

DSC			
-----	--	--	--

Santander (MRSC)

DSC			
-----	--	--	--

Vigo (MRSC)

DSC			
-----	--	--	--

SPAIN (CANARY ISLANDS)

Las Palmas

	NAV		
--	-----	--	--

Las Palmas (CCR GROUP V)

DSC			
-----	--	--	--

Las Palmas (MRCC)

DSC			
-----	--	--	--

Tenerife (CCR)

DSC			
-----	--	--	--

Tenerife (MRCC)

DSC			
-----	--	--	--

METAREA: II, III

SPAIN

Tarifa (MRCC)

DSC	NAV		
-----	-----	--	--

METAREA: III

ALGERIA

Alger Radio

DSC			
-----	--	--	--

Annaba Radio

DSC			
-----	--	--	--

Arzew Radio

DSC			
-----	--	--	--

Bejaia Radio

DSC			
-----	--	--	--

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFndp = HF NBDP

MODE OF TRANSMISSION

Ghazouet Radio

DSC			
DSC			
DSC			
DSC			

Oran

Skikda Radio

Tenes Radio

BULGARIA

Varna

Varna Radio

	NAV		
DSC			HFnbd

CROATIA

Dubrovnik

Habour Master Office

Rijeka

Split (Hvar I.)

DSC			
DSC			
DSC			
DSC	NAV		

CYPRUS

Cyprus

DSC	NAV		
-----	-----	--	--

EGYPT

El Iskandariya (Alexandria)

	NAV		
--	-----	--	--

FRANCE

La Garde (CROSS) (MRCC)

DSC	NAV		
-----	-----	--	--

GREECE

Irakleio (Kriti)

Kerkyra

Limnos

Olympia Radio

Rodos

DSC	NAV		
DSC	NAV		
DSC	NAV		
		FAX	HFnbd
DSC			

ISRAEL

Hefa (Haifa)

DSC	NAV		
-----	-----	--	--

ITALY

Ancona (IPA)

Augusta (IQA)

Bari (IPB)

Cagliari (IDC)

Civitavecchia (IPD)

Crotone (IPC)

Genova (ICB)

La Maddalena

Lampedusa (IQN)

Livorno (IPL)

Mazara del Vallo (IQQ)

Messina (IDF)

Mondolfo

Napoli (IQH)

DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC			
	NAV		
DSC			

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Palermo (IPP)
 Porto Torres (IZN)
 Roma (IAR)
 San Benedetto del Tronto (IQP)
 Sellia Marina
 Trieste (IQX)

DSC			
DSC			
DSC			
DSC			
	NAV		
DSC			

LIBYA

Tarabulus (Tripoli)

DSC			
-----	--	--	--

MALTA

Malta Radio
 Malta Radio (RCC)

	NAV		
DSC			

MONACO

Monaco

DSC			
-----	--	--	--

MONTENEGRO

Bar

DSC			
-----	--	--	--

ROMANIA

Constanta (Constantza) Radio

DSC	NAV		
-----	-----	--	--

RUSSIAN FEDERATION (EUROPE)

Astrakhan (Caspian Sea)
 Novorossiysk

	NAV		
	NAV		

SPAIN

Almería (MRCC)
 Barcelona (MRCC)
 Cartagena (MRSC)
 Castellón (MRSC)
 Huelva (MRSC)
 Málaga (CCR)
 Palamós (MRSC)
 Palma (MRCC)
 Tarragona (MRSC)
 Valencia (Cabo de la Nao)
 Valencia (CCR)
 Valencia (MRCC)

DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
	NAV		
DSC			
DSC			

SYRIAN ARAB REPUBLIC

Al Ladhqiyyah (Latakia)
 Tartus (Tartous)

DSC			
DSC			

TUNISIA

La Goulette Port
 Tunis

DSC			
DSC			

TURKEY

Antalya

DSC	NAV		
-----	-----	--	--

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Istanbul
Izmir
Samsun

DSC	NAV		HFnbd
	NAV		
DSC	NAV		

UKRAINE

Kerch
Mariupol'
Odesa
Sevastopol, Krymskoi

	NAV		
DSC			HFnbd
DSC	NAV		
DSC			

METAREA: IV

BARBADOS

Barbados Coast Guard (MRSC)

DSC			
-----	--	--	--

BERMUDA

Bermuda Harbour

DSC	NAV		
-----	-----	--	--

CANADA

Churchill (CCG)
Fundy (Yarmouth) (CCG)
Halifax (CCG)
Halifax, Nova Scotia (CCG)
Inuvik (CCG)
Iqaluit (CCG)
Iqaluit, NWT (CCG)
Labrador (CCG)
Les Escoumins (CCG)
Montréal (CCG)
Placentia (CCG)
Port aux Basques (CCG)
Prescott (Wiarnton) (CCG)
Québec (CCG)
Resolute (CCG)
Resolute, NWT (CCG)
Rivière-au-Renard (CCG)
Saint Anthony (CCG)
Saint John's, New Brunswick (CCG)
Saint John's, Newfoundland (CCG)
Sarnia (CCG)
Sydney (CCG)
Sydney, Nova Scotia (CCG)
Thunder Bay (CCG)

DSC			
	NAV		
DSC			
		FAX	
DSC		FAX	
			HFnbd
		FAX	
DSC	NAV		
DSC			
DSC			
DSC			
DSC			
DSC	NAV		
DSC			
DSC			
		FAX	
DSC	NAV		
DSC			
DSC	NAV		
DSC			
		FAX	
DSC	NAV		

COSTA RICA

Radio Casino, Limón
Radio Stero Bahía, Limón

DSC			
DSC			

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

CUBA			
Cienfuegos	DSC		
Habana	DSC		
Santiago de Cuba	DSC		
CURAÇAO AND BONAIRE (NETHERLANDS ANTILLES)			
Curaçao		NAV	
Curaçao Radio (JRCC)	DSC		
DOMINICAN REPUBLIC			
Santo Domingo Piloto	DSC		
GREENLAND (KALAALLIT NUNAAT)			
Aasiaat	DSC		
Grønnedal	DSC		
GRENADA			
Grenada Coast Guard (S. Georges) (MRSC)	DSC		
GUADELOUPE, ST. MARTIN, ST. BARTHELEMY			
ADRASEC (Guadeloupe)	DSC		
Guadeloupe (CROSSAG)	DSC		
JAMAICA			
Kingston, Jamaica Coast Guard (MRCC)	DSC		
MARTINIQUE			
ADRASEC (Martinique)	DSC		
Martinique (CROSSAG)	DSC		
MEXICO			
Chetumal	DSC		
Ciudad del Carmen	DSC		
Coatzacoalcos	DSC		
Cozumel	DSC		
Mexican Army	DSC		
Pajaritos	DSC		
Progreso	DSC		
Veracruz	DSC		
PUERTO RICO			
San Juan (USCG)	DSC	NAV	
TRINIDAD AND TOBAGO			
North Post (Trinidad)	DSC		
UNITED STATES OF AMERICA			
Atlantic City (USCG)	DSC		
Baltimore (USCG)	DSC		
Boston, Massachusetts (USCG)	DSC	NAV	FAX HFnbd
Buffalo (USCG)	DSC		
Cape Hatteras (USCG)	DSC		

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Charleston (USCG)
 Chesapeake (USCG)
 CAMSLANT (Communications Area Master Station Atlantic)
 Chincoteague (Eastern Shore) (USCG)
 Corpus Christi (USCG)
 Detroit (USCG)
 Fort Macon (USCG)
 Galveston (USCG)
 Grand Haven (USCG)
 Hampton Roads (USCG)
 Key West (USCG)
 Long Island Sound (USCG)
 Mayport (USCG)
 Miami (USCG)
 Milwaukee (USCG)
 Mobile
 Mobile (USCG)
 Moriches (USCG)
 New Orleans, Louisiana (USCG)
 New York (USCG)
 Philadelphia (USCG)
 Portland (USCG)
 Portsmouth (CAMSLANT)
 Saint Petersburg (USCG)
 Sandy Hook (USCG)
 Sault Sainte Marie (USCG)
 Southwest Harbour (USCG)
 Woods Hole (USCG)

DSC	NAV		
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC	NAV		
DSC			
DSC			
DSC			HFnbd
DSC			
DSC	NAV	FAX	
DSC			
DSC			
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC			
DSC			

METAREA: IX

BAHRAIN

Hamala

	NAV		
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DJIBOUTI

Djibouti

DSC			
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EGYPT

El Quseir (Kosseir)

	NAV		
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Ismailia

	NAV		
--	-----	--	--

Serapeum Ismailia

			HFnbd
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IRAN, ISLAMIC REPUBLIC OF

Abbas

			HFnbd
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Bandar Abbas(MRCC)

DSC	NAV		
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Bandar Imam Khomeyni (MRCC)

DSC			
-----	--	--	--

Bushehr (MRCC)

DSC	NAV		
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DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBPD

MODE OF TRANSMISSION

Chah Bahar (MRCC)	DSC			
JORDAN				
'Aqaba	DSC			
KUWAIT				
Al Kuwayt (Kuwait)	DSC			
OMAN				
Masqat (Muscat) (Wattayah Radio Station)		NAV		
PAKISTAN				
Karachi	DSC	NAV		
Karachi NAVAL	DSC			
QATAR				
Ad Dawhah (Doha)	DSC			
SAUDI ARABIA				
Dammam		NAV		
Jeddah	DSC	NAV		
UZBEKISTAN				
Tashkent			FAX	
METAREA: V				

BRAZIL

Belém	DSC			
Brazilian MMS		NAV		
Junção	DSC			
Olinda	DSC			
Ponta do Céu	DSC			
Río	DSC			
Rio de Janeiro Naval	DSC		FAX	HFnbnd

SURINAME

Paramaribo	DSC			
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URUGUAY

Atlántida (PREFECTURA)	DSC			
Carmelo (PREFECTURA)	DSC			
Colonia (PREFECTURA)	DSC			
Control Montevideo (PREFECTURA)	DSC			
Fray Bentos (PREFECTURA)	DSC			
La Paloma	DSC	NAV		
Nueva Palmira (PREFECTURA)	DSC			
Paysandú (PREFECTURA)	DSC			
Piriápolis (PREFECTURA)	DSC			
Puerto Sauce (PREFECTURA)	DSC			
Punta Carretas	DSC			
Punta del Este (PREFECTURA)	DSC			

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbndp = HF NBDP

MODE OF TRANSMISSION

Rio Branco (PREFECTURA)
 Salto (PREFECTURA)
 Sodre
 Trouville (PREFECTURA)

DSC			
DSC			
DSC			
DSC			

METAREA: VI

ARGENTINA

Bahía Blanca (PREFECTURA NAVAL)
 Buenos Aires (PREFECTURA NAVAL)
 Centro Meteorológico Base Marambio
 Comodoro Rivadavia (PREFECTURA NAVAL)
 Delta (PREFECTURA NAVAL)
 Mar del Plata (PREFECTURA NAVAL)
 Puerto Madryn (PREFECTURA NAVAL)
 Quequén (PREFECTURA NAVAL)
 Rawson (PREFECTURA NAVAL)
 Recalada Río de la Plata (PREFECTURA NAVAL)
 Río Gallegos (PREFECTURA NAVAL)
 San Antonio Oeste (PREFECTURA NAVAL)
 Ushuaia (PREFECTURA NAVAL)

DSC	NAV		
DSC	NAV	FAX	HFnbd
		FAX	HFnbd
DSC	NAV		HFnbd
DSC			
DSC	NAV		
DSC			
DSC			
DSC			
DSC	NAV		
DSC			
DSC	NAV		

METAREA: VII

ANGOLA

--
 Luanda

	NAV		
DSC			

ASCENSION ISLAND

RAF VOLMET

DSC			
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COMOROS

Moroni

DSC			
-----	--	--	--

MADAGASCAR

--

	NAV		
--	-----	--	--

MOZAMBIQUE

--
 Beira

	NAV		
DSC			

NAMIBIA

Walvis Bay

DSC	NAV		
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NEW AMSTERDAM ISLAND (FRANCE)

Martin de Vivies (New Amsterdam Island) OR Port-aux-Français (Kerguelen Island)

DSC			
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SOUTH AFRICA

Cape Naval
 Cape Naval (NAVCOMCEN Cape)
 Cape Town
 Durban

			HFnbd
		FAX	
DSC	NAV		
	NAV		

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Port Elizabeth		NAV		
METAREA: VIII(N)	<hr/>			
BANGLADESH				
Chittagong	DSC			
INDIA				
Chennai (Madras)	DSC	NAV		
Kochi (Cochin)	DSC			
Mumbai (Bombay)	DSC			
Mumbai (Bombay) (COMCEN)	DSC	NAV		
New Delhi			FAX	
Tuticorin	DSC			
Vishakhapatnam (COMCEN)	DSC			
SRI LANKA				
Colombo	DSC			
METAREA: VIII(S)	<hr/>			
KENYA				
Nairobi			FAX	
MAURITIUS				
Mauritius		NAV		
Port Louis Harbour	DSC			
RÉUNION				
Réunion (CROSSRU) (MRCC)	DSC			
SEYCHELLES				
Seychelles	DSC			
METAREA: X	<hr/>			
AUSTRALIA				
Charleville (Queensland)	DSC		FAX	
Wiluna (Western Australia)	DSC		FAX	
COOK ISLANDS				
Rarotonga	DSC			
NEW CALEDONIA				
Nouméa	DSC			
PAPUA NEW GUINEA				
Port Moresby	DSC			
SOLOMON ISLANDS				
Honiara	DSC			
METAREA: XI	<hr/>			
CHINA				
Dalian		NAV		
Fuzhou		NAV		
Guangzhou	DSC	NAV		HFnbdb

DSC = VHF/MF/HF DSC NAV = NAVTEX FAX = RADIO-FACSIMILE HFnbdb = HF NBDP

MODE OF TRANSMISSION

Sanya
Shanghai
Tianjin

	NAV		
DSC	NAV		HFnbd
DSC	NAV		HFnbd

GUAM

Guam (USCG)

DSC	NAV		HFnbd
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HONG KONG, CHINA

Hong Kong

DSC	NAV		
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INDONESIA

Amboina
Jakarta
Jayapura
Ujungpandang (Makassar)

	NAV		
DSC	NAV		HFnbd
	NAV		
	NAV		

JAPAN

Hiroshima (JCG MRCC)
Ishigaki (JCG MRCC)
Kagoshima
Kagoshima (JCG MRCC)
Kobe (JCG MRCC)
Kushiro
Kushiro (JCG MRCC)
Maizuru (JCG MRCC)
Moji
Moji (JCG MRCC)
Nagoya (JCG MRCC)
Naha
Naha (JCG MRCC)
Niigata (JCG MRCC)
Otaru
Otaru (JCG MRCC)
Sasebo (JCG MRCC)
Shiogama (JCG MRCC)
Yokohama (JCG MRCC)

DSC			
DSC			
		FAX	
DSC			
DSC			
	NAV		
DSC			
DSC			
	NAV		
DSC			
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC	NAV		

KIRIBATI

Tarawa

DSC			
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MALAYSIA

Miri (Sarawak)
Penang
Sandakan (Sabah)

	NAV		
	NAV		
	NAV		

PHILIPPINES

Manila

DSC			
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DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBPD

MODE OF TRANSMISSION

REPUBLIC OF KOREA

- Cheju (Jeju)
- Chukpyon (Jukbyeon)
- Inch'on (Incheon)
- Kangnung (Gangneung)
- Kunsan (Gunsan)
- Meteorological Radio Transmission Station
- Pyonsan (Byeonsan)

DSC			
	NAV		
DSC			
DSC			
DSC			
		FAX	
	NAV		

SINGAPORE

- Singapore (Changi)

	NAV		
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THAILAND

- Bangkok (Nonthaburi) Meteorological

DSC	NAV	FAX	
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VIET NAM

- Da Nang
- Hai Phong
- Ho Chi Minh Ville

DSC	NAV		
DSC			
DSC	NAV		

METAREA: XII

CANADA

- Comox (CCG)
- Prince Rupert (CCG)
- Tofino (CCG)
- Vancouver (CCG)
- Victoria (CCG)

DSC			
DSC	NAV		
DSC	NAV		
DSC			
DSC			

COSTA RICA

- Radio Bahía, Puntarenas
- Radio Pampa, Guanacaste

DSC			
DSC			

ECUADOR

- Ayora
- Guayaquil, Radio IOA (Instituto Oceanografico Armada) o Radio Naval

	NAV		
DSC			

MEXICO

- Acapulco
- Ensenada
- Lazaro Cardenas
- Manzanillo
- Mazatlán
- Puerto Vallarta

DSC			
DSC			
DSC			
DSC			
DSC			
DSC			

UNITED STATES OF AMERICA

- Astoria (USCG)
- Cambria
- Humboldt Bay (USCG)
- KKL Radio - Vashon Island

DSC	NAV		
	NAV		
DSC			
DSC			

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Long Beach (USCG)
 North Bend (USCG)
 Point Reyes (USCG)
 CAMSPAC (Communications Area Master Station Pacific)
 Point Reyes, San Francisco (CAMSPAC)
 Point Reyes, San Francisco (USCG)
 Port Angeles (USCG)
 Pt. Reyes, California
 San Diego (USCG)
 Seattle
 Seattle (USCG)

DSC			
DSC			
DSC			
	NAV		HFnbd
DSC			
DSC			
		FAX	
DSC			
DSC			
DSC			

UNITED STATES OF AMERICA (ALASKA)

Annette (Weather Service Office)
 Barrow (Weather Service Office)
 Bethel (Weather Service Office)
 Cold Bay (Weather Service Office)
 Juneau (USCG)
 Ketchikan (USCG)
 King Salmon (Weather Service Office)
 Kodiak (USCG)
 Kodiak (Weather Service Office)
 Kodiak, Alaska, USA
 Kotzebue (Weather Service Office)
 Mc Grath (Weather Service Office)
 Nome (Weather Service Office)
 S. Paul Island (Weather Service Office)
 Sitka (USCG)
 Valdez (USCG)
 Yakutat (Weather Service Office)

DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
		FAX	
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			

UNITED STATES OF AMERICA (HAWAII)

Honolulu
 Honolulu (USCG)
 Kekaha, Kauai

		FAX	HFnbd
DSC	NAV		
DSC			

METAREA: XII, XVII

UNITED STATES OF AMERICA (ALASKA)

Kodiak (East)
 Kodiak (West)

	NAV		
	NAV		

METAREA: XIII

RUSSIAN FEDERATION (EUROPE)

Tiksi

DSC			
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RUSSIAN FEDERATION (IN ASIA)

Beringovskiy

	NAV		HFnbd
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DSC = VHF/MF/HF DSC NAV = NAVTEX FAX = RADIO-FACSIMILE HFnbdp = HF NBDP

MODE OF TRANSMISSION

Beringovskiy (Station broadcasts only during navigation season (15 May-1 December))
 Kholmsk
 Magadan
 Okhotsk
 Petropavlovsk
 Petropavlovsk-Kamchatskiy
 Vladivostok
 Yuzhno-Sakhalinsk

DSC			
	NAV		
DSC	NAV		
DSC	NAV		
	NAV		
			HFnbnd
DSC	NAV		HFnbnd
DSC			

METAREA: XIV

FIJI

Suva

DSC			
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FRENCH POLYNESIA

Mahina (Tahiti)

DSC			
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NEW ZEALAND

Taupo Maritime Radio

Wellington (Transmitting station: Auckland)

DSC			
		FAX	

TONGA

Nuku'Alofa

DSC			
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TUVALU

Funafuti Island

DSC			
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VANUATU

Port-Vila

DSC			
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METAREA: XIX

NORWAY

Bodø

Svalbard

Vardø

	NAV		
	NAV		
	NAV		

METAREA: XV

CHILE

Antofagasta Zonal

Arica Radio

Bahía Félix Radio

Bahía Fildes

Cabo Carranza, Faro

Cabo Raper, Faro

Caldera

Castro

Centro Meteorológico Presidente Eduardo Frei Montalva

Chañaral

Consitución

Coquimbo

DSC	NAV		
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
		FAX	HFnbnd
DSC			
DSC			
DSC			

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbndp = HF NBPD

MODE OF TRANSMISSION

Diégo Ramirez
 Huasco
 Iquique
 Isla de Pascua (Easter Island)
 Isla de Pascua Zonal Radio (Easter Island)
 Isla Guafo, Faro
 Isla Mocha, Faro
 Isla Quiriquina, Faro
 Isla San Pedro
 Islote Fairway, Faro
 Islotes Evangelistas, Faro
 Juan Fernández
 Magallanes
 Magallanes Zonal Radio
 Puerto Aysén
 Puerto Montt Zonal Radio
 Punta Corona, Faro
 Punta Delgada
 Punta Dungenes, Faro
 San Antonio
 Talcahuano Zonal Radio
 Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)
 Wollaston

DSC			
DSC			
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
	NAV		
DSC			
DSC			
DSC	NAV		
DSC			
DSC			
DSC			
DSC			
DSC	NAV		
DSC	NAV	FAX	HFnbd
DSC			

METAREA: XVI

PERU

Callao
 Mollendo
 Mollendo (Matarani)
 Paíta

	NAV		HFnbd
			HFnbd
	NAV		
	NAV		HFnbd

METAREA: XVII

UNITED STATES OF AMERICA (ALASKA)

Kodiak, Alaska, USA

		FAX	
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METAREA: XVIII

CANADA

Iqaluit (CCG)

DSC	NAV		
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GREENLAND (KALAALLIT NUNAAT)

Kook Island (Nuuk)

	NAV		
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METAREA: XX

RUSSIAN FEDERATION (EUROPE)

Arkhangel'sk
 Murmansk

DSC	NAV		HFnbd
	NAV		

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Tiksi (Operational 01 July - 30 October)

RUSSIAN FEDERATION (IN ASIA)

Dikson

METAREA: XXI

	NAV		
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			HFnbd
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RUSSIAN FEDERATION (IN ASIA)

Pevek

		FAX	
--	--	-----	--

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

Annex II - Index of Stations by Country

	MODE OF TRANSMISSION			
ALGERIA				
Alger Radio	DSC			
Annaba Radio	DSC			
Arzew Radio	DSC			
Bejaia Radio	DSC			
Ghazouet Radio	DSC			
Oran	DSC			
Skikda Radio	DSC			
Tenes Radio	DSC			
ANGOLA				
--		NAV		
Luanda	DSC			
ARGENTINA				
Bahía Blanca (PREFECTURA NAVAL)	DSC	NAV		
Buenos Aires (PREFECTURA NAVAL)	DSC	NAV	FAX	HFnbnd
Centro Meteorológico Base Marambio			FAX	HFnbnd
Comodoro Rivadavia (PREFECTURA NAVAL)	DSC	NAV		HFnbnd
Delta (PREFECTURA NAVAL)	DSC			
Mar del Plata (PREFECTURA NAVAL)	DSC	NAV		
Puerto Madryn (PREFECTURA NAVAL)	DSC			
Quequén (PREFECTURA NAVAL)	DSC			
Rawson (PREFECTURA NAVAL)	DSC			
Recalada Río de la Plata (PREFECTURA NAVAL)	DSC			
Rio Gallegos (PREFECTURA NAVAL)	DSC	NAV		
San Antonio Oeste (PREFECTURA NAVAL)	DSC			
Ushuaia (PREFECTURA NAVAL)	DSC	NAV		
ASCENSION ISLAND				
RAF VOLMET	DSC			
AUSTRALIA				
Charleville (Queensland)	DSC		FAX	
Wiluna (Western Australia)	DSC		FAX	
BAHRAIN				
Hamala		NAV		
BANGLADESH				
Chittagong	DSC			
BARBADOS				
Barbados Coast Guard (MRSC)	DSC			
BELGIUM				
Antwerpen Radio	DSC			
Oostende		NAV		
Oostende Radio	DSC			
BENIN				
Cotonou	DSC			
BERMUDA				

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBPD

MODE OF TRANSMISSION

Bermuda Harbour	DSC	NAV		
BRAZIL				
Belém	DSC			
Brazilian MMS		NAV		
Junção	DSC			
Olinda	DSC			
Ponta do Céu	DSC			
Río	DSC			
Rio de Janeiro Naval	DSC		FAX	HFnbdp
BULGARIA				
Varna		NAV		
Varna Radio	DSC			HFnbdp
CABO VERDE				
Sao Vicente		NAV		
CANADA				
Churchill (CCG)	DSC			
Comox (CCG)	DSC			
Fundy (Yarmouth) (CCG)		NAV		
Halifax (CCG)	DSC			
Halifax, Nova Scotia (CCG)			FAX	
Inuvik (CCG)	DSC		FAX	
Iqaluit (CCG)				HFnbdp
Iqaluit (CCG)	DSC	NAV		
Iqaluit, NWT (CCG)			FAX	
Labrador (CCG)	DSC	NAV		
Les Escoumins (CCG)	DSC			
Montréal (CCG)	DSC			
Placentia (CCG)	DSC			
Port aux Basques (CCG)	DSC			
Prescott (Wiaraton) (CCG)	DSC	NAV		
Prince Rupert (CCG)	DSC	NAV		
Québec (CCG)	DSC			
Resolute (CCG)	DSC			
Resolute, NWT (CCG)			FAX	
Rivière-au-Renard (CCG)	DSC	NAV		
Saint Anthony (CCG)	DSC			
Saint John's, New Brunswick (CCG)	DSC			
Saint John's, Newfoundland (CCG)	DSC	NAV		
Sarnia (CCG)	DSC			
Sydney (CCG)	DSC	NAV		
Sydney, Nova Scotia (CCG)			FAX	
Thunder Bay (CCG)	DSC	NAV		
Tofino (CCG)	DSC	NAV		
Vancouver (CCG)	DSC			

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBPD

MODE OF TRANSMISSION

Victoria (CCG)	DSC			
CHILE				
Antofagasta Zonal	DSC	NAV		
Arica Radio	DSC			
Bahía Félix Radio	DSC			
Bahía Fildes	DSC			
Cabo Carranza, Faro	DSC			
Cabo Raper, Faro	DSC			
Caldera	DSC			
Castro	DSC			
Centro Meteorológico Presidente Eduardo Frei Montalva			FAX	HFnbdb
Chañaral	DSC			
Consitutción	DSC			
Coquimbo	DSC			
Diégo Ramirez	DSC			
Huasco	DSC			
Iquique	DSC			
Isla de Pascua (Easter Island)		NAV		
Isla de Pascua Zonal Radio (Easter Island)	DSC			
Isla Guafo, Faro	DSC			
Isla Mocha, Faro	DSC			
Isla Quiriquina, Faro	DSC			
Isla San Pedro	DSC			
Islote Fairway, Faro	DSC			
Islotes Evangelistas, Faro	DSC			
Juan Fernández	DSC			
Magallanes		NAV		
Magallanes Zonal Radio	DSC			
Puerto Aysén	DSC			
Puerto Montt Zonal Radio	DSC	NAV		
Punta Corona, Faro	DSC			
Punta Delgada	DSC			
Punta Dungenes, Faro	DSC			
San Antonio	DSC			
Talcahuano Zonal Radio	DSC	NAV		
Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)	DSC	NAV	FAX	HFnbdb
Wollaston	DSC			
CHINA				
Dalian		NAV		
Fuzhou		NAV		
Guangzhou	DSC	NAV		HFnbdb
Sanya		NAV		
Shanghai	DSC	NAV		HFnbdb

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdb = HF NBDP

		MODE OF TRANSMISSION			
		DSC	NAV	FAX	HFnbdp
Tianjin		DSC	NAV		HFnbdp
COMOROS					
Moroni		DSC			
CONGO					
Pointe Noire		DSC			
COOK ISLANDS					
Rarotonga		DSC			
COSTA RICA					
Radio Bahía, Puntarenas		DSC			
Radio Casino, Limón		DSC			
Radio Pampa, Guanacaste		DSC			
Radio Stero Bahía, Limón		DSC			
COTE D'IVOIRE					
Abidjan Radio		DSC			
CROATIA					
Dubrovnik		DSC			
Habour Master Office		DSC			
Rijeka		DSC			
Split (Hvar I.)		DSC	NAV		
CUBA					
Cienfuegos		DSC			
Habana		DSC			
Santiago de Cuba		DSC			
CURAÇAO AND BONAIRE (NETHERLANDS ANTILLES)					
Curaçao			NAV		
Curaçao Radio (JRCC)		DSC			
CYPRUS					
Cyprus		DSC	NAV		
DENMARK AND FAROE ISLANDS					
Lyngby		DSC			
Skamlebaek (KØBENHAVN)				FAX	
Tórshavn Radio (Faeroes)		DSC	NAV		
DJIBOUTI					
Djibouti		DSC			
DOMINICAN REPUBLIC					
Santo Domingo Piloto		DSC			
ECUADOR					
Ayora			NAV		
Guayaquil, Radio IOA (Instituto Oceanografico Armada) o Radio Naval		DSC			
EGYPT					
El Iskandariya (Alexandria)			NAV		
El Quseir (Kosseir)			NAV		
Ismailia			NAV		
Serapeum Ismailia					HFnbdp
ESTONIA					
Tallinn		DSC	NAV		
FIJI					

DSC = VHF/MF/HF DSC NAV = NAVTEX FAX = RADIO-FACSIMILE HFnbdp = HF NBPD

MODE OF TRANSMISSION

Suva	DSC			
FINLAND				
Turku (MRCC)	DSC			
FRANCE				
Corsen (CROSS) (MRCC)	DSC	NAV		
Étel (CROSS) (MRCC)	DSC			
Gris Nez (CROSS)	DSC			
Jobourg (CROSS) (MRCC)	DSC			
La Garde (CROSS) (MRCC)	DSC	NAV		
FRENCH POLYNESIA				
Mahina (Tahiti)	DSC			
GERMANY				
Bremen Radio (MRCC)	DSC			
Offenbach (Main)-Hamburg/Pinneberg (broadcast for shipping)			FAX	
Pinneberg		NAV		
GHANA				
Tema Radio	DSC			
GREECE				
Irakleio (Kriti)	DSC	NAV		
Kerkyra	DSC	NAV		
Limnos	DSC	NAV		
Olympia Radio			FAX	HFnbdb
Rodos	DSC			
GREENLAND (KALAALLIT NUNAAT)				
Aasiaat	DSC			
Ammassalik	DSC			
Grønnedal	DSC			
Kook Island (Nuuk)		NAV		
GRENADA				
Grenada Coast Guard (S. Georges) (MRSC)	DSC			
GADELOUPE, ST. MARTIN, ST. BARTHELEMY				
ADRASEC (Guadeloupe)	DSC			
Guadeloupe (CROSSAG)	DSC			
GUAM				
Guam (USCG)	DSC	NAV		HFnbdb
GUERNSEY				
Saint Peter Port	DSC			
GUINEA				
Conakry	DSC			
HONG KONG, CHINA				
Hong Kong	DSC	NAV		
ICELAND				
Grindavik		NAV		
Hornafjörður	DSC			
Isafjörður	DSC			
Nes Radio (Neskaupstaður)	DSC			

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdb = HF NBDFP

MODE OF TRANSMISSION

Reykjavík
Saudanes
Siglufjörður
Vestmannaeyjar

DSC			
	NAV		
DSC			
DSC			

INDIA

Chennai (Madras)
Kochi (Cochin)
Mumbai (Bombay)
Mumbai (Bombay) (COMCEN)
New Delhi
Tuticorin
Vishakhapatnam (COMCEN)

DSC	NAV		
DSC			
DSC			
DSC	NAV		
		FAX	
DSC			
DSC			

INDONESIA

Amboina
Jakarta
Jayapura
Ujungpandang (Makassar)

	NAV		
DSC	NAV		HFnbdb
	NAV		
	NAV		

IRAN, ISLAMIC REPUBLIC OF

Abbas
Bandar Abbas(MRCC)
Bandar Imam Khomeyni (MRCC)
Bushehr (MRCC)
Chah Bahar (MRCC)

			HFnbdb
DSC	NAV		
DSC			
DSC	NAV		
DSC			

IRELAND

Dublin (MRCC)
Malin Head (MRSC)
Valentia (MRSC)

DSC			
DSC	NAV		
DSC	NAV		

ISRAEL

Hefa (Haifa)

DSC	NAV		
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ITALY

Ancona (IPA)
Augusta (IQA)
Bari (IPB)
Cagliari (IDC)
Civitavecchia (IPD)
Crotone (IPC)
Genova (ICB)
La Maddalena
Lampedusa (IQN)
Livorno (IPL)
Mazara del Vallo (IQQ)
Messina (IDF)
Mondolfo
Napoli (IQH)

DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC			
	NAV		
DSC			

DSC = VHF/MF/HF DSC NAV = NAVTEX FAX = RADIO-FACSIMILE HFnbdb = HF NBDFP

MODE OF TRANSMISSION

Palermo (IPP)
 Porto Torres (IZN)
 Roma (IAR)
 San Benedetto del Tronto (IQP)
 Sellia Marina
 Trieste (IQX)

DSC			
DSC			
DSC			
DSC			
	NAV		
DSC			

JAMAICA

Kingston, Jamaica Coast Guard (MRCC)

DSC			
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JAPAN

Hiroshima (JCG MRCC)
 Ishigaki (JCG MRCC)
 Kagoshima
 Kagoshima (JCG MRCC)
 Kobe (JCG MRCC)
 Kushiro
 Kushiro (JCG MRCC)
 Maizuru (JCG MRCC)
 Moji
 Moji (JCG MRCC)
 Nagoya (JCG MRCC)
 Naha
 Naha (JCG MRCC)
 Niigata (JCG MRCC)
 Otaru
 Otaru (JCG MRCC)
 Sasebo (JCG MRCC)
 Shiogama (JCG MRCC)
 Yokohama (JCG MRCC)

DSC			
DSC			
		FAX	
DSC			
DSC			
	NAV		
DSC			
DSC			
	NAV		
DSC			
DSC			
	NAV		
DSC			
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC	NAV		

JERSEY

Jersey Radio
 Saint Helier Pierheads

DSC			
DSC			

JORDAN

'Aqaba

DSC			
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KENYA

Nairobi

		FAX	
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KIRIBATI

Tarawa

DSC			
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KUWAIT

Al Kuwayt (Kuwait)

DSC			
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LATVIA

Riga Rescue Radio (MRCC)

DSC			
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LIBYA

Tarabulus (Tripoli)

DSC			
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LITHUANIA

Klaipeda (Radio 5) Klaipeda State Seaport Authority Harbour Master Office

DSC			
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MADAGASCAR

DSC = VHF/MF/HF DSC	NAV = NAVTEX	FAX = RADIO-FACSIMILE	HFndp = HF NBDP
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MODE OF TRANSMISSION

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MALAYSIA		NAV		
Miri (Sarawak)		NAV		
Penang		NAV		
Sandakan (Sabah)		NAV		
MALTA		NAV		
Malta Radio		NAV		
Malta Radio (RCC)	DSC			
MARTINIQUE				
ADRASEC (Martinique)	DSC			
Martinique (CROSSAG)	DSC			
MAURITIUS		NAV		
Mauritius		NAV		
Port Louis Harbour	DSC			
MEXICO				
Acapulco	DSC			
Chetumal	DSC			
Ciudad del Carmen	DSC			
Coatzacoalcos	DSC			
Cozumel	DSC			
Ensenada	DSC			
Lazaro Cardenas	DSC			
Manzanillo	DSC			
Mazatlán	DSC			
Mexican Army	DSC			
Pajaritos	DSC			
Progreso	DSC			
Puerto Vallarta	DSC			
Veracruz	DSC			
MONACO				
Monaco	DSC			
MONTENEGRO				
Bar	DSC			
MOROCCO				
Agadir	DSC			
Casablanca	DSC			
Dakhla	DSC			
Safi	DSC			
Tanger	DSC			
MOZAMBIQUE				
--		NAV		
Beira	DSC			
NAMIBIA				
Walvis Bay	DSC	NAV		
NETHERLANDS				
Den Helder		NAV		

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Netherlands Coastguard Radio	DSC			
NEW AMSTERDAM ISLAND (FRANCE)				
Martin de Vivies (New Amsterdam Island) OR Port-aux-Français (Kerguelen Island)	DSC			
NEW CALEDONIA				
Nouméa	DSC			
NEW ZEALAND				
Taupo Maritime Radio	DSC			
Wellington (Transmitting station: Auckland)			FAX	
NORWAY				
Bjørnøya	DSC			
Bjørnøya Meteo Radio	DSC			
Bodø		NAV		
Bodø Radio	DSC			
Florø Radio	DSC			
Høpen Meteo Radio	DSC			
Jan Mayen	DSC			
Jan Mayen Meteo Radio	DSC			
Jeløya		NAV		
Ørlandet		NAV		
Rogaland		NAV		
Rogaland Radio	DSC			
Svalbard		NAV		
Svalbard Radio	DSC			
Tjøme Radio	DSC			
Vardø		NAV		
Vardø Radio	DSC			
OMAN				
Masqat (Muscat) (Wattayah Radio Station)		NAV		
PAKISTAN				
Karachi	DSC	NAV		
Karachi NAVAL	DSC			
PAPUA NEW GUINEA				
Port Moresby	DSC			
PERU				
Callao		NAV		HFnbdb
Mollendo				HFnbdb
Mollendo (Matarani)		NAV		
Paita		NAV		HFnbdb
PHILIPPINES				
Manila	DSC			
POLAND				
Slupsk	DSC			
Witowo Radio	DSC			
Zatoka Gdansk - Vessel Traffic Services	DSC			
PORTUGAL				

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdb = HF NBDB

MODE OF TRANSMISSION

Cte. Nunes Ribeiro (Radionaval)

Faro (Radionaval)

Leixões (Radionaval)

Monsanto (Alges)

PORTUGAL (AZORES)

Delgada (MRCC)

Horta

Horta (Radionaval)

PORTUGAL (MADEIRA)

Porto Santo (Radionaval)

PUERTO RICO

San Juan (USCG)

QATAR

Ad Dawhah (Doha)

REPUBLIC OF KOREA

Cheju (Jeju)

Chukpyon (Jukbyeon)

Inch'on (Incheon)

Kangnung (Gangneung)

Kunsan (Gunsan)

Meteorological Radio Transmission Station

Pyonsan (Byeonsan)

RÉUNION

Réunion (CROSSRU) (MRCC)

ROMANIA

Constanta (Constantza) Radio

RUSSIAN FEDERATION (EUROPE)

Arkhangel'sk

Astrakhan (Caspian Sea)

Kaliningrad

Murmansk

Murmansk

Novorossiysk

Tiksi

Tiksi (Operational 01 July - 30 October)

RUSSIAN FEDERATION (IN ASIA)

Beringovskiy

Beringovskiy (Station broadcasts only during navigation season (15 May-1 December))

Dikson

Kholmsk

Magadan

Okhotsk

Petropavlovsk

Petropavlovsk-Kamchatskiy

Pevek

DSC			
DSC			
DSC			
	NAV		
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC	NAV		
DSC			
DSC			
DSC			
		FAX	
	NAV		
DSC			
DSC	NAV		
DSC			HFnbdb
	NAV		
DSC			HFnbdb
	NAV		
		FAX	HFnbdb
	NAV		
DSC			
	NAV		
			HFnbdb
	NAV		
DSC	NAV		
DSC	NAV		
	NAV		
			HFnbdb
		FAX	

DSC = VHF/MF/HF DSC NAV = NAVTEX FAX = RADIO-FACSIMILE HFnbdbp = HF NBDD

MODE OF TRANSMISSION

Vladivostok	DSC	NAV		HFnbdb
Yuzhno-Sakhalinsk	DSC			
SAUDI ARABIA				
Dammam		NAV		
Jeddah	DSC	NAV		
SENEGAL				
Dakar		NAV	FAX	
SEYCHELLES				
Seychelles	DSC			
SINGAPORE				
Singapore (Changi)		NAV		
SOLOMON ISLANDS				
Honiara	DSC			
SOUTH AFRICA				
Cape Naval				HFnbdb
Cape Naval (NAVCOMCEN Cape)			FAX	
Cape Town	DSC	NAV		
Durban		NAV		
Port Elizabeth		NAV		
SPAIN				
Algeciras (MRSC)	DSC			
Almería (MRCC)	DSC			
Barcelona (MRCC)	DSC			
Bilbao (CCR)	DSC			
Bilbao (MRCC)	DSC			
Cádiz (MRSC)	DSC			
Cartagena (MRSC)	DSC			
Castellón (MRSC)	DSC			
Coruña (CCR)	DSC			
Coruña (MRSC)	DSC	NAV		
Finisterre (MRCC)	DSC			
Gijón (MRCC)	DSC			
Huelva (MRSC)	DSC			
Málaga (CCR)	DSC			
Palamós (MRSC)	DSC			
Palma (MRCC)	DSC			
Santander (MRSC)	DSC			
Tarifa (MRCC)	DSC	NAV		
Tarragona (MRSC)	DSC			
Valencia (Cabo de la Nao)		NAV		
Valencia (CCR)	DSC			
Valencia (MRCC)	DSC			
Vigo (MRSC)	DSC			
SPAIN (CANARY ISLANDS)				
Las Palmas		NAV		

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdbp = HF NBPD

MODE OF TRANSMISSION

Las Palmas (CCR GROUP V)	DSC			
Las Palmas (MRCC)	DSC			
Tenerife (CCR)	DSC			
Tenerife (MRCC)	DSC			
SRI LANKA				
Colombo	DSC			
SURINAME				
Paramaribo	DSC			
SWEDEN				
Bjuröklubb		NAV		
Gislovshammer		NAV		
Grimeton		NAV		
Stockholm	DSC			
SYRIAN ARAB REPUBLIC				
Al Ladhiqiyah (Latakia)	DSC			
Tartus (Tartous)	DSC			
THAILAND				
Bangkok (Nonhaburi) Meteorological	DSC	NAV	FAX	
TONGA				
Nuku'Alofa	DSC			
TRINIDAD AND TOBAGO				
North Post (Trinidad)	DSC			
TUNISIA				
La Goulette Port	DSC			
Tunis	DSC			
TURKEY				
Antalya	DSC	NAV		
Istanbul	DSC	NAV		HFnbd
Izmir		NAV		
Samsun	DSC	NAV		
TUVALU				
Funafuti Island	DSC			
UKRAINE				
Kerch		NAV		
Mariupol'	DSC			HFnbd
Odesa	DSC	NAV		
Sevastopol, Krymskoi	DSC			
UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND				
Aberdeen (MRCC)	DSC			
Belfast (MRSC)	DSC			
Brixham (MRSC)	DSC			
Clyde (MRCC)	DSC			
Cullercoats		NAV		
Dover (MRCC)	DSC			
Falmouth (MRCC)	DSC			
Forth (MRSC)	DSC			

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

MODE OF TRANSMISSION

Holyhead (MRSC)
 Humber (MRCC)
 Liverpool (MRSC)
 Milford Haven (MRSC)
 Niton
 Niton (France)
 Northwood
 Portland (MRSC)
 Portpatrick
 Shetland (MRSC)
 Solent (MRSC)
 Stornoway (MRSC)
 Swansea (MRCC)
 Thames (MRCC)
 Yarmouth (MRCC)

DSC			
DSC			
DSC			
DSC			
	NAV		
	NAV		
		FAX	
DSC			
	NAV		
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			

UNITED STATES OF AMERICA

Astoria (USCG)
 Atlantic City (USCG)
 Baltimore (USCG)
 Boston, Massachusetts (USCG)
 Buffalo (USCG)
 Cambria
 Cape Hatteras (USCG)
 Charleston (USCG)
 Chesapeake (USCG)
 CAMSLANT (Communications Area Master Station Atlantic)
 Chincoteague (Eastern Shore) (USCG)
 Corpus Christi (USCG)
 Detroit (USCG)
 Fort Macon (USCG)
 Galveston (USCG)
 Grand Haven (USCG)
 Hampton Roads (USCG)
 Humboldt Bay (USCG)
 Key West (USCG)
 KKL Radio - Vashon Island
 Long Beach (USCG)
 Long Island Sound (USCG)
 Mayport (USCG)
 Miami (USCG)
 Milwaukee (USCG)
 Mobile
 Mobile (USCG)

DSC	NAV		
DSC			
DSC			
DSC	NAV	FAX	HFnbnd
DSC			
	NAV		
DSC			
DSC	NAV		
DSC			
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DSC			
DSC			
DSC			
DSC	NAV		
DSC			
DSC			
DSC			
DSC			HFnbnd

DSC = VHF/MF/HF DSC NAV = NAVTEX FAX = RADIO-FACSIMILE HFnbndp = HF NBDP

MODE OF TRANSMISSION

Moriches (USCG)
 New Orleans, Louisiana (USCG)
 New York (USCG)
 North Bend (USCG)
 Palmer Station
 Philadelphia (USCG)
 Point Reyes (USCG)
 CAMSPAC (Communications Area Master Station Pacific)
 Point Reyes, San Francisco (CAMSPAC)
 Point Reyes, San Francisco (USCG)
 Port Angeles (USCG)
 Portland (USCG)
 Portsmouth (CAMSLANT)
 Pt. Reyes, California
 Saint Petersburg (USCG)
 San Diego (USCG)
 Sandy Hook (USCG)
 Sault Sainte Marie (USCG)
 Seattle
 Seattle (USCG)
 Southwest Harbour (USCG)
 Woods Hole (USCG)

DSC			
DSC	NAV	FAX	
DSC			
DSC			
			HFnbnd
DSC			
DSC			
	NAV		HFnbnd
DSC			
DSC			
DSC			
	NAV		
		FAX	
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			

UNITED STATES OF AMERICA (ALASKA)

Annette (Weather Service Office)
 Barrow (Weather Service Office)
 Bethel (Weather Service Office)
 Cold Bay (Weather Service Office)
 Juneau (USCG)
 Ketchikan (USCG)
 King Salmon (Weather Service Office)
 Kodiak (East)
 Kodiak (USCG)
 Kodiak (Weather Service Office)
 Kodiak (West)
 Kodiak, Alaska, USA
 Kodiak, Alaska, USA
 Kotzebue (Weather Service Office)
 Mc Grath (Weather Service Office)
 Nome (Weather Service Office)
 S. Paul Island (Weather Service Office)
 Sitka (USCG)
 Valdez (USCG)
 Yakutat (Weather Service Office)

DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
	NAV		
DSC			
DSC			
	NAV		
		FAX	
		FAX	
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			

UNITED STATES OF AMERICA (HAWAII)

DSC = VHF/MF/HF DSC NAV = NAVTEX FAX = RADIO-FACSIMILE HFnbndp = HF NBPD

MODE OF TRANSMISSION

Honolulu
 Honolulu (USCG)
 Kekaha, Kauai

		FAX	HFnbdb
DSC	NAV		
DSC			

URUGUAY

Atlántida (PREFECTURA)
 Carmelo (PREFECTURA)
 Colonia (PREFECTURA)
 Control Montevideo (PREFECTURA)
 Fray Bentos (PREFECTURA)
 La Paloma
 Nueva Palmira (PREFECTURA)
 Paysandú (PREFECTURA)
 Piriápolis (PREFECTURA)
 Puerto Sauce (PREFECTURA)
 Punta Carretas
 Punta del Este (PREFECTURA)
 Rio Branco (PREFECTURA)
 Salto (PREFECTURA)
 Sodre
 Trouville (PREFECTURA)

DSC			
DSC			
DSC			
DSC			
DSC			
DSC	NAV		
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			
DSC			

UZBEKISTAN

Tashkent

		FAX	
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VANUATU

Port-Vila

DSC			
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VIET NAM

Da Nang
 Hai Phong
 Ho Chi Minh Ville

DSC	NAV		
DSC			
DSC	NAV		

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

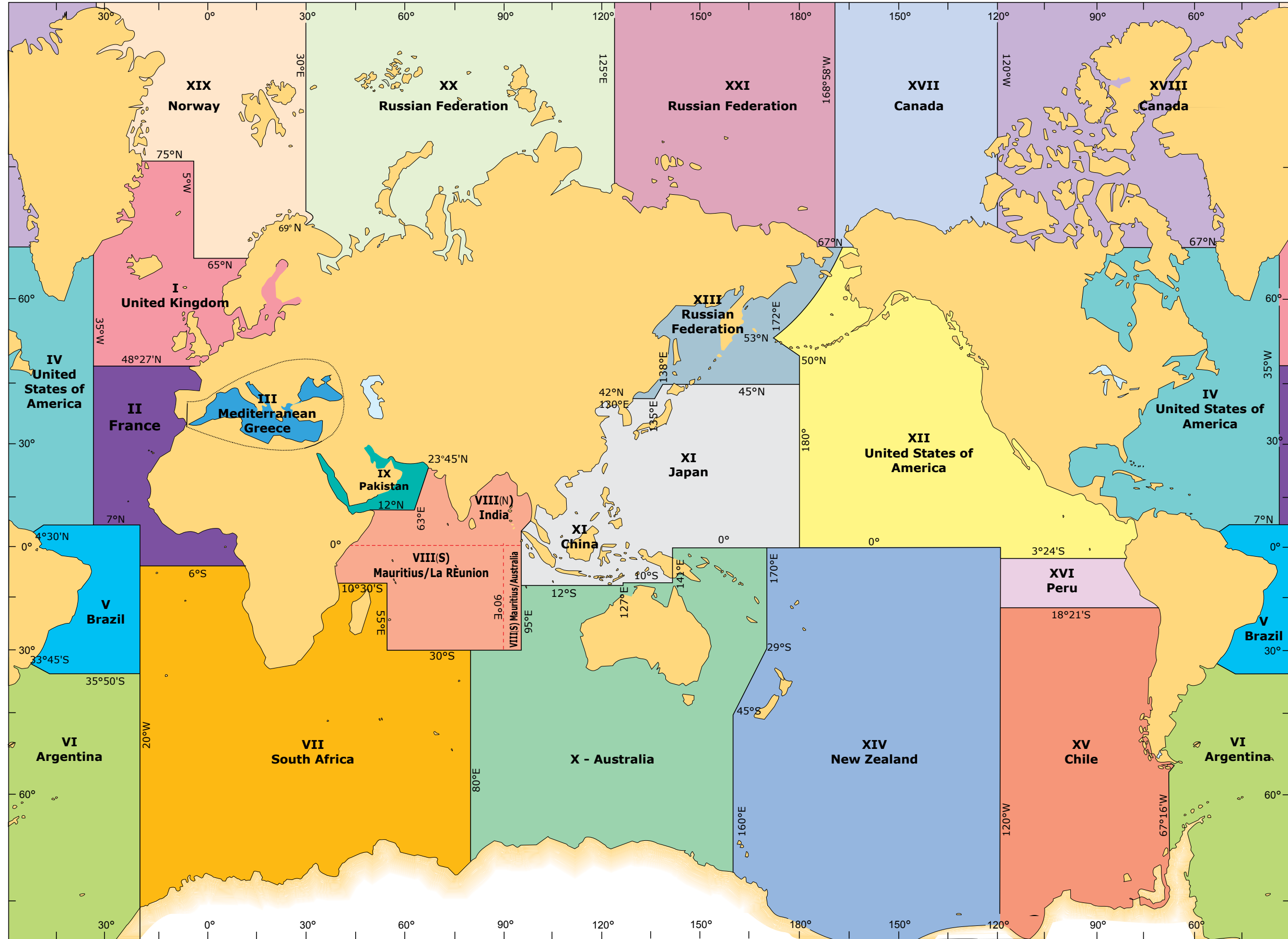
HFnbdb = HF NBDP

CHAPTER 1

SAFETYNET SERVICES

GMDSS GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM

LIMITS OF METAREAS



Co-ordinates for GMDSS METAREAS

Updated: 06 April 2017

METAREA	Coordinates
I	The North Atlantic Ocean east of 35°W, from 48°27'N to 75°N, including the North Sea and Baltic Sea sub-area
II	Atlantic waters east of 35°W, from 7°N to 48°27'N, and east of 20°W from 7°N to 6°S, including the Strait of Gibraltar;
III	The Mediterranean and Black Seas, east of the Strait of Gibraltar;
IV	The western part of the North Atlantic Ocean east of the North American coast to 35°W, from 7°N to 67°N, including the Gulf of Mexico, the Caribbean Sea and the sea area between 7°N and the South American coastline eastward to the Guyana/Brazil frontier at 4°30'N and Hudson Bay* and Approaches. (*INMARSAT-C broadcasts to Hudson Bay and Approaches use rectangular area referencing so as to ensure that INMARSAT-C receivers aboard vessels navigating outside this area do not d
V	Atlantic waters west of 20°W from 35°50'S to 7°N, narrowing in the coastal strips at the extremities to the Uruguay/Brazil frontier at 33°45'S and the Guyana/Brazil frontier at 4°30'N
VI	The South Atlantic and Southern Oceans south of 35°50'S, and from 20°W to the longitude of Cape Horn, 67°16'W, including the coastal strip to the Uruguay/Brazil frontier at 33°45'S;
VII	The South Atlantic and Southern Oceans south of 6°S from 20°W to the coast of Africa, thence southward to the Cape of Good Hope and the South Indian Ocean and Southern Oceans south of 10°30'S from the Cape to 55°E, thence south of 30°S to 80°E;
VIII(N)	The area of the Indian Ocean enclosed by lines from the India/Pakistan frontier at 23°45'N 68°E to 12°N 63°E, thence to Cape Gardafui and from the east African coast southward to the Equator, thence to 95°E, to 6°N, thence north east to the Myanmar/Thailand frontier at 10°N 98°30'E;
VIII(S)	The east African coast from the Equator southward to 10°30'S, thence to 55°E, to 30°S, to 95°E, to the Equator and to the east African coast;
IX	The Red Sea, Gulf of Aden, Arabian Sea and Persian Gulf, north of Area VIII
X	The South Indian Ocean and Southern Oceans east of 80°E and south of 30°S, to 95°E, to 12°S, to 127°E and thence to the Timor Sea, South Pacific and Southern Oceans south of 10°S to 141°E, to the Equator, to 170°E, to 29°S, thence south-westward to 45°S at 160°E and then to the meridian at 160°E;
XI	The Indian Ocean, China Sea and North Pacific Ocean north of Area X and on the Equator to longitude 180°, east of Area VIII and the Asian continent, to the Democratic People's Republic of Korea/Russian Federation frontier at 42°30'N 130°E, and thence to 135°E, north east to 45°N 138°20'E, to 45°N longitude 180°;
XII	The eastern part of the Pacific Ocean, west of the North and South American coasts and east of 120°W, from 3°24'S to the Equator, thence to 180°, to 50°N thence north-westward to 53°N 172°E, north-eastward following the marine frontier between the United States and Russian Federation waters to 67°N;

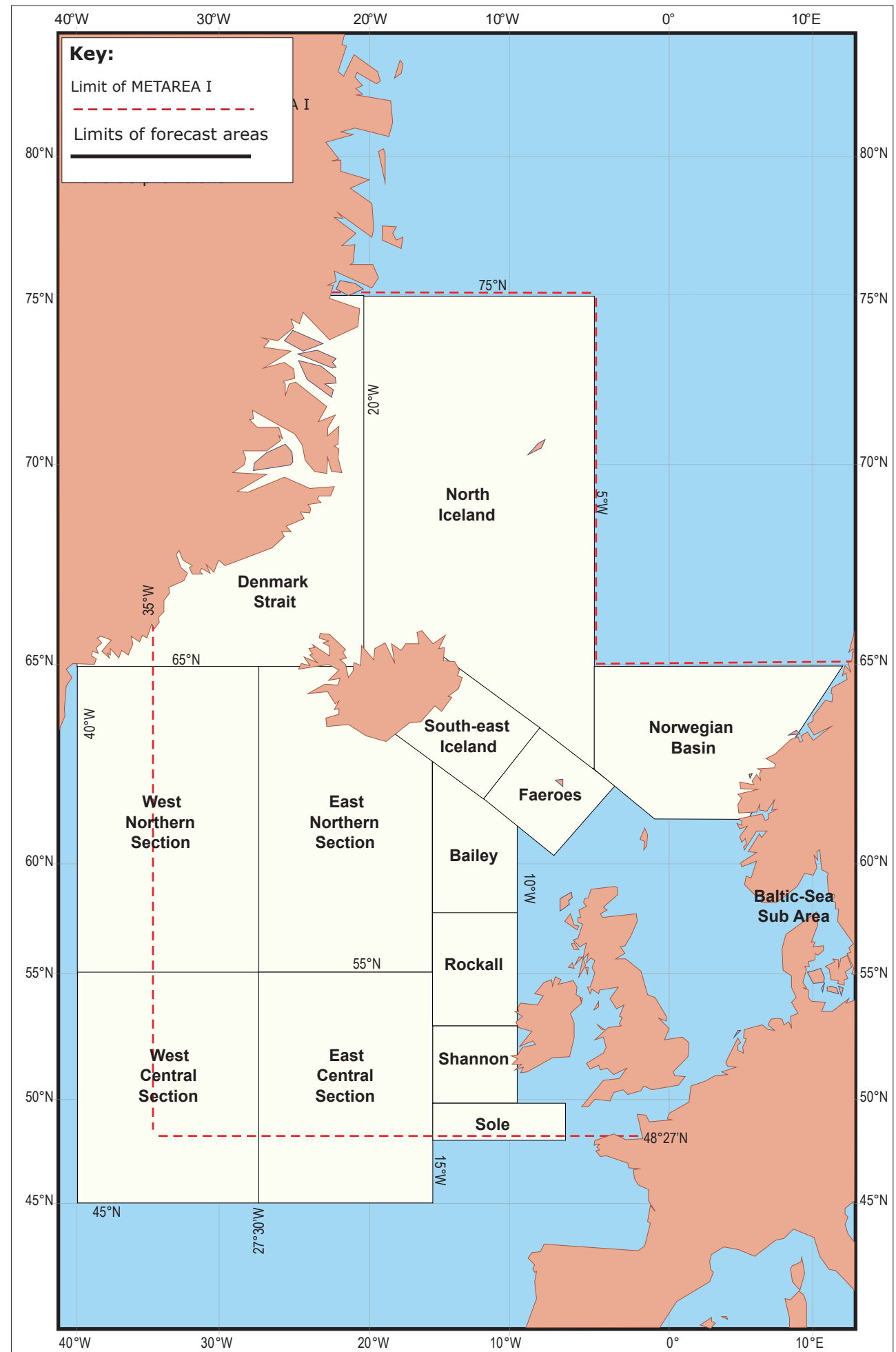
METAREA	Coordinates
XIII	Sea areas enclosed north of the line starting 42°30'N 130°E, and thence to 135°E, north east to 45°N 138°20'E, to 45°N longitude 180°, then to 50°N, then north west to 53°N 172°E, and then following the international dateline to 67°N, and then west to the Russian Federation coastline .
XIV	The South Pacific and Southern Oceans south of the Equator, bounded by Area X to the west, Area XII to the north and Area XV to the east;
XV	The South Pacific and Southern Oceans south of 18°21'S following the coast of Chile to the longitude of Cape Horn at 67°16'W, and 120°W;
XVI	The South Pacific Ocean between 18°21'S and 3°24'S bounded by the coast of Peru and 120°W;
XVII	The Arctic Ocean bounded by 67°N 168°58'W to 90°N to 90°N 035°W then back to 67°N 168°58'W;
XVIII	The Arctic Ocean bounded by 67°N 120°W to 90°N to 67°N 035°W then back to 67°N 120°W;
XIX	From a position on the Norwegian coastline at 65°N to 65°N 5°W, 75°N 5°W, westward to a position on the Greenland coastline; from the border between Norway and Russia (inland) to 69°47'68"N 30°49'16"E, 69°58'48"N 31°06'24"E, 70°22'N 31°43'E, 71°N 30°E; from this coordinate (71°N 30°E) further north along the 30°E meridian to 90°N 30°E, 90°N 35°W, southward to the Greenland coastline along the 35°W meridian.
XX	From the border between Norway and Russia (inland) to 69°47'68"N 30°49'16"E, 69°58'48"N 31°06'24"E, 70°22'N 31°43'E, 71°N 30°E; from this coordinate (71°N 30°E) further north along the 30°E meridian to 90°N 30°E, 90°N 125°E, then south to the Russian Federation coastline along the 125°E meridian;
XXI	From a position on the Russian Federation coastline at the 125°E meridian northward along the 125°E meridian to 90°N then to 168°58'W, south-ward along the 168°58'W meridian to the 67°N parallel, westward along the 67°N parallel to a position on the Russian Federation coastline.

METAREA I

United Kingdom of Great Britain and Northern Ireland
Royaume Uni de Grande-Bretagne et d'Irlande du Nord

SafetyNET Forecasts

02 February 2015



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METAREA I - Sub areas

Denmark - Danmark Areas for Ice Reports and Codes

Fairway Sections and areas for ice reports (AA-HH):

AA:

- 1 Sea area N of Hammeren
- 2 Fairway to Ronne
- 3 Sea area between Ronne and Falsterbo
- 4 Sea area off Falsterbo
- 5 Fairway through Drogden
- 6 Fairway to Kobenhavn

BB:

- 1 Sea area W of Ven
- 2 Sea area E of Ven
- 3 Sea area off Helsingor
- 4 Sea area off Nakkehaved
- 5 Sea area S of Hesselø
- 6 Fairway to Isefjorden - Kyndby Vaerket

CC:

- 1 Sea area off Mon lighthouse, Route T
- 2 Sea area S of Gedser, Route T
- 3 Sea area S of Rodby harbour, Route T
- 4 Sea area SE of Keldsnor, Route T
- 5 Sea area off Sprodbjerg, Route T
- 6 Sea area W of Omo, Route T

DD:

- 1 Agersosund - Stigsmøes
- 2 Storebælt channel, western part
- 3 Storebælt, eastern part, Route T
- 4 Sea area E of Roms, Route T
- 5 Fairway to Kalundborg - oil harbour
- 6 Sea area W of Rosnaes, Route T

EE :

- 1 Sea area W of Sjaellands Rev, Route T
- 2 Sea area W of Hesselø, Route T
- 3 Sea area E of Anholt, Route T
- 4 Sea area W of Fladen lighthouse, Route T
- 5 Sea area NW of Kummelbanke, Route T
- 6 Sea area N of Skagen, Route T

FF:

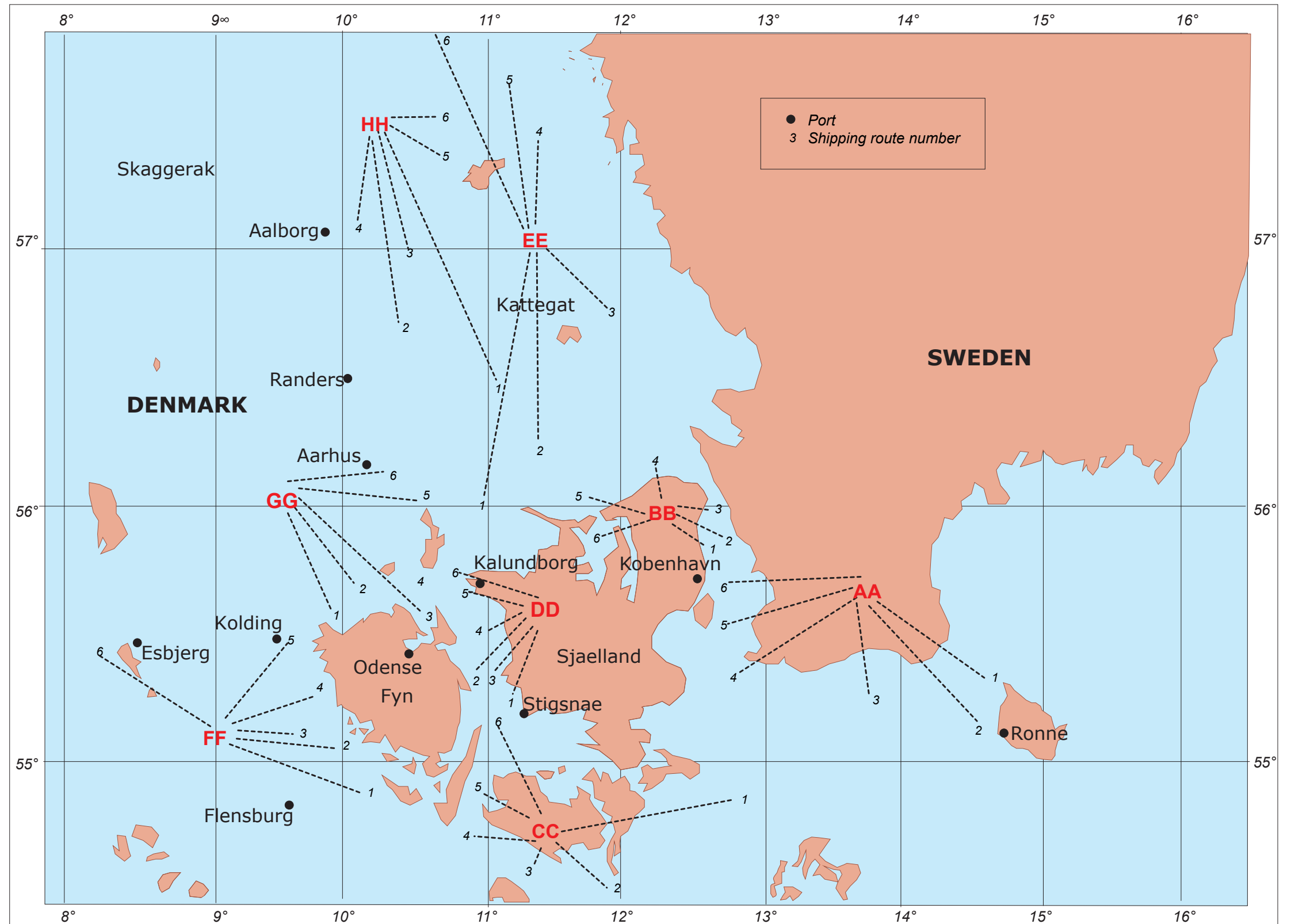
- 1 Southern entrance to Lillebælt, Skjoldnaes
- 2 Sea area off Helnaes
- 3 Fairway to Abenra - Enstedvaerket
- 4 Sea area off Assens
- 5 Kolding Yderfjord to the Bridges
- 6 Fairway to Esbjerg

GG:

- 1 Fairway at Fredericia to the Bridges
- 2 Sea area N of Aabelø
- 3 Fairway to Odense
- 4 Sea area at Vesborg lighthouse
- 5 Sea area S of Sletterhage
- 6 Fairway to Arhus

HH:

- 1 Sea area off Fornæs
- 2 Fairway to Randers
- 3 Entrance at Hals Barre
- 4 Fairway to Aalborg
- 5 Sea area NW of Laeso
- 6 Sea area off Hirsholmene

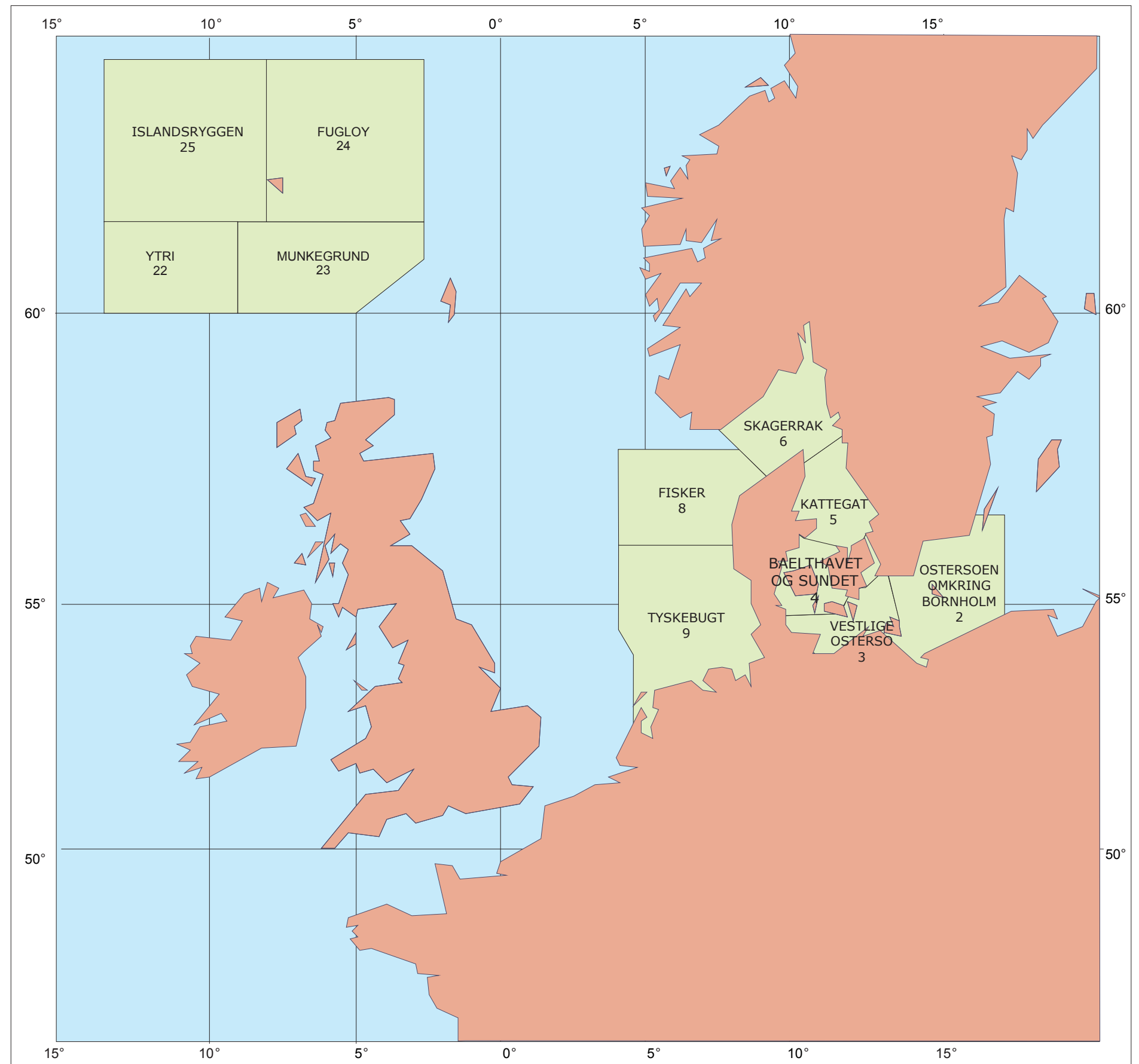


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METAREA I - Sub areas

Denmark - Danmark

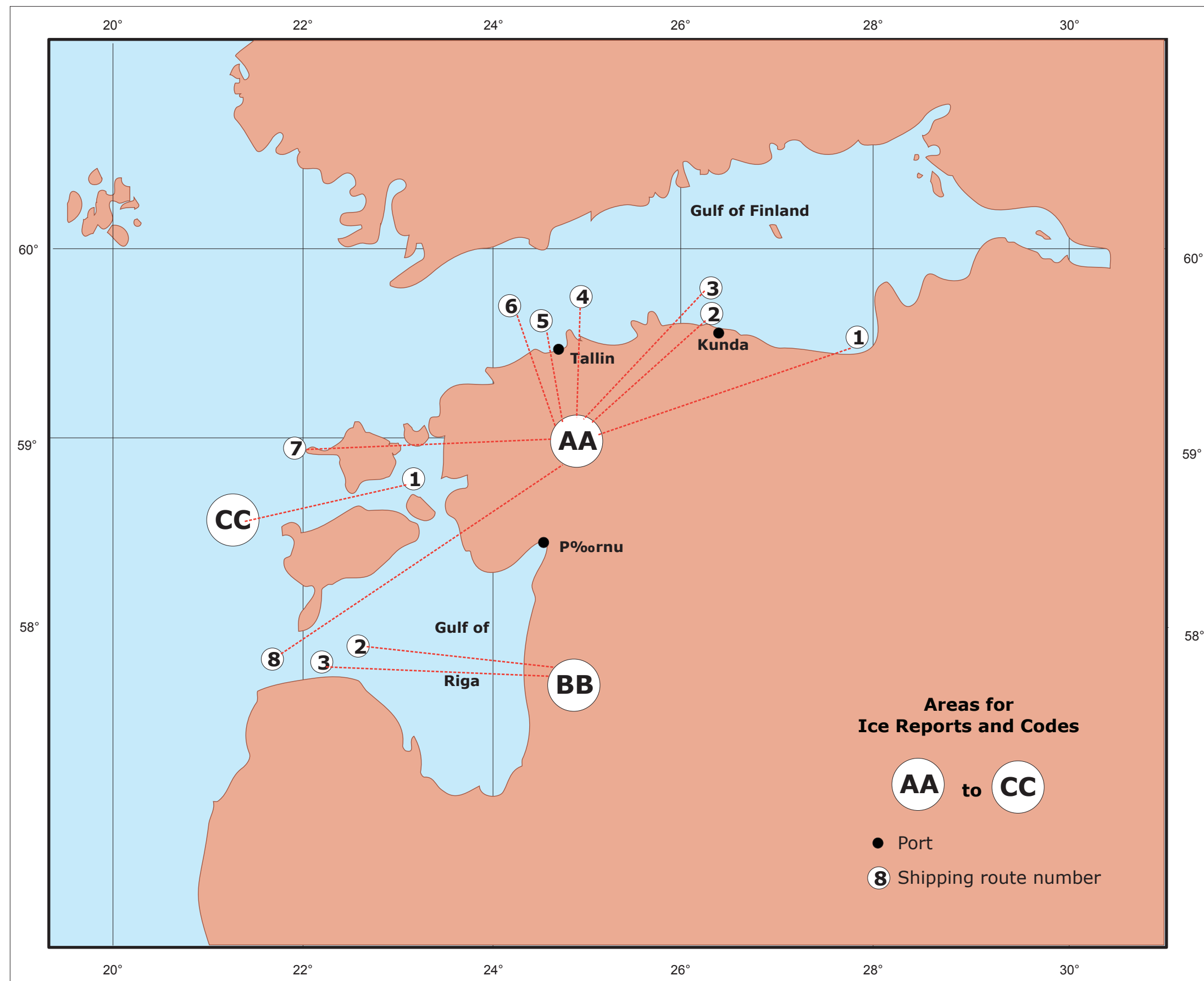
12 January 2009



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METAREA I - Sub areas

Estonia - Estonie



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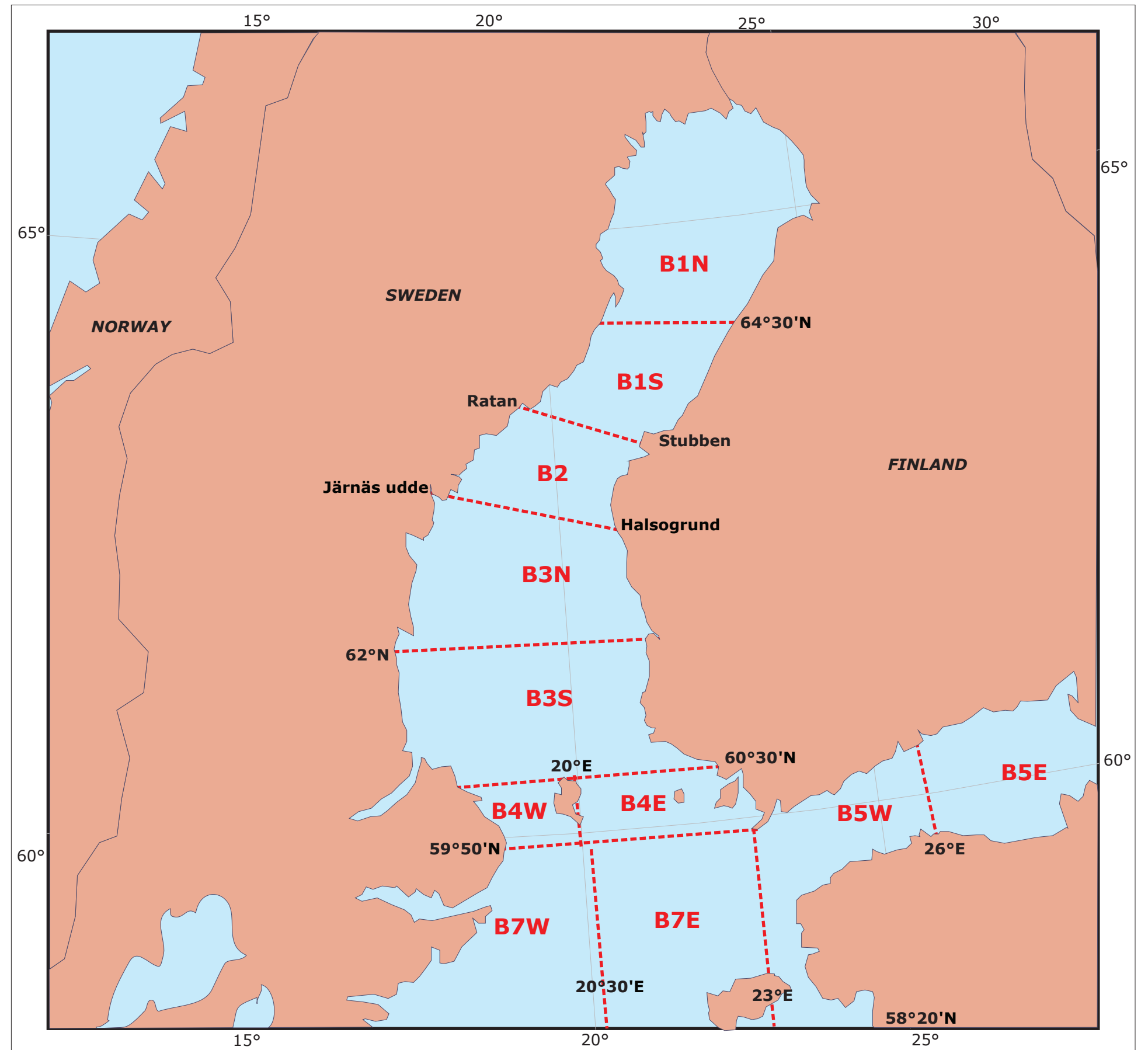
METAREA I - Sub areas

Finland - Finlande

Weather Forecast Areas

10 May 2011

- B1 Bay of Bothnia
- B2 The Quark
- B3 Sea of Bothnia
- B4W Sea of Aaland
- B4E Sea of Archipelago
- B5 Gulf of Finland
- B7 Northern Baltic



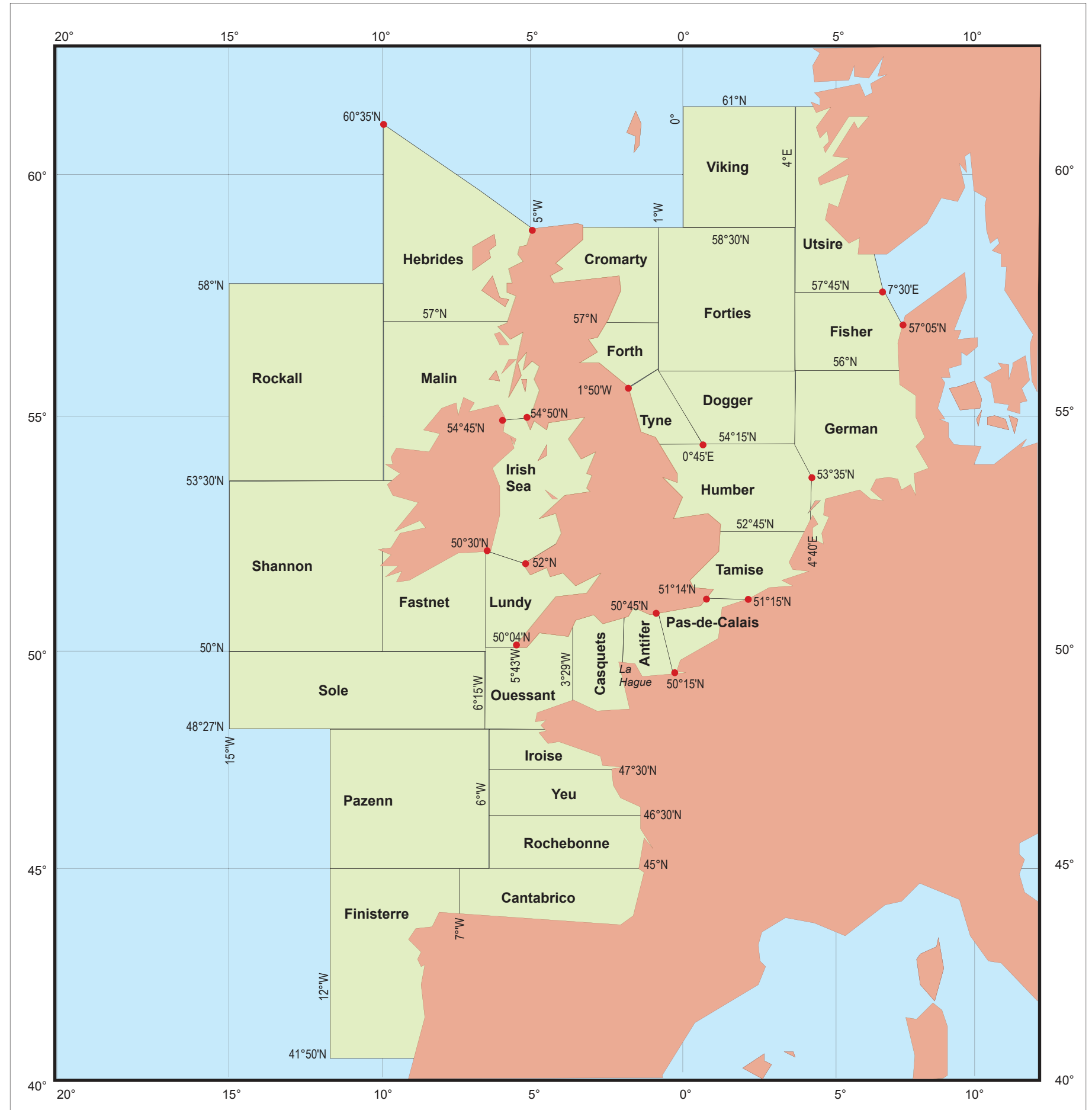
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METAREA I - Sub areas

France

Forecast Areas

30 October 2016



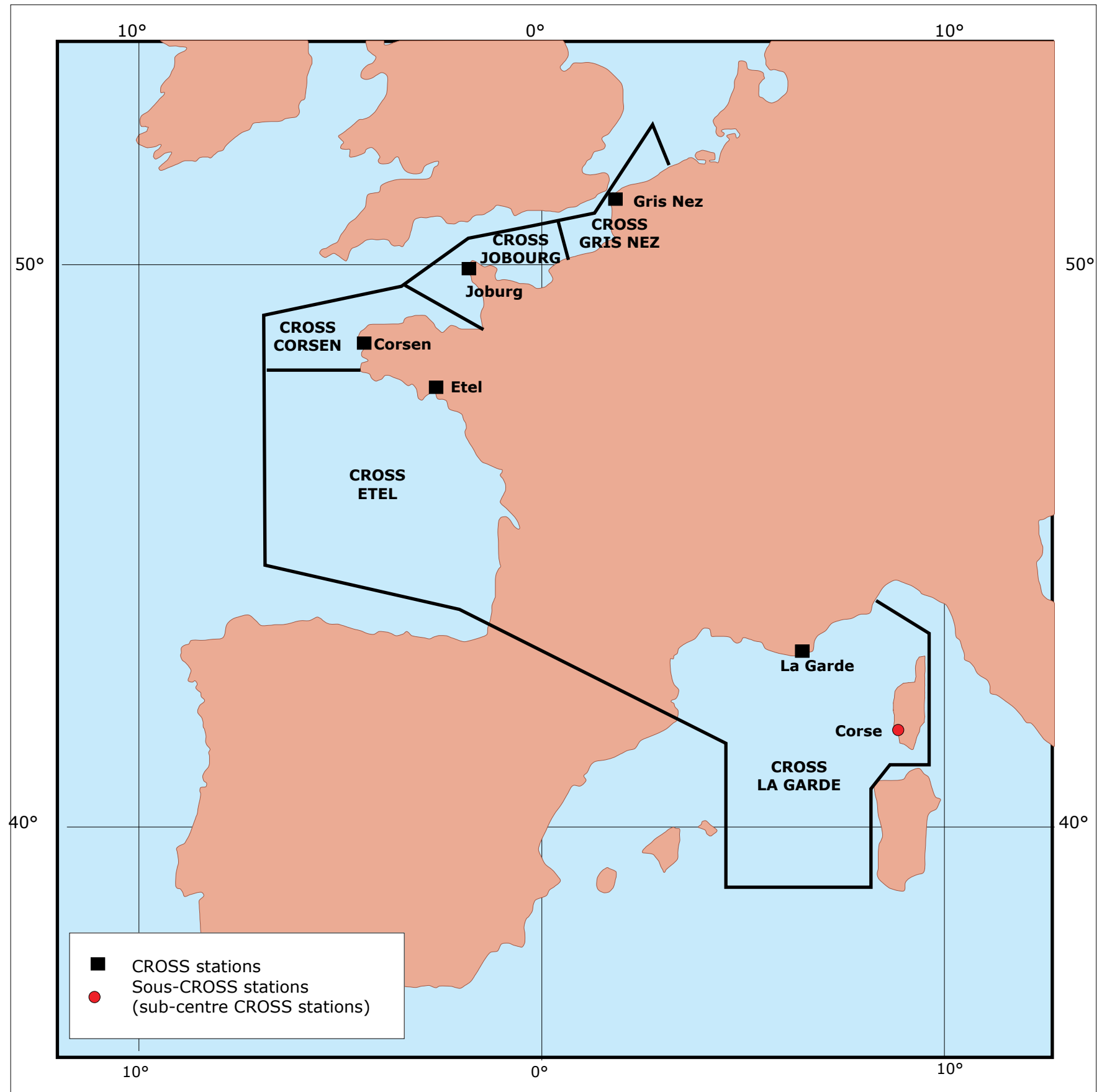
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METAREA I - Sub areas

France

Areas of responsibility of Centres Régionaux Opérationnels de Surveillance et de Sauvetage (CROSS) stations

30 October 2016



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METAREA I - Sub areas

Germany- Allemagne

Forecast Areas

KEY:

ATLANTIC

- A1 Western Gibraltar
- A2 Portuguese coast
- A3 Finisterre
- A4 Bay of Biscay
- A5 English Channel Eastern Part
- A6 English Channel Western Part
- A7 Southern Ireland
- A8 Irish Sea
- A9 Hebrides
- A10 Pentlands
- A11 Svinoy
- A20 Shetlands
- A21 Faroes
- A26 Dohrn bank

NORTH SEA

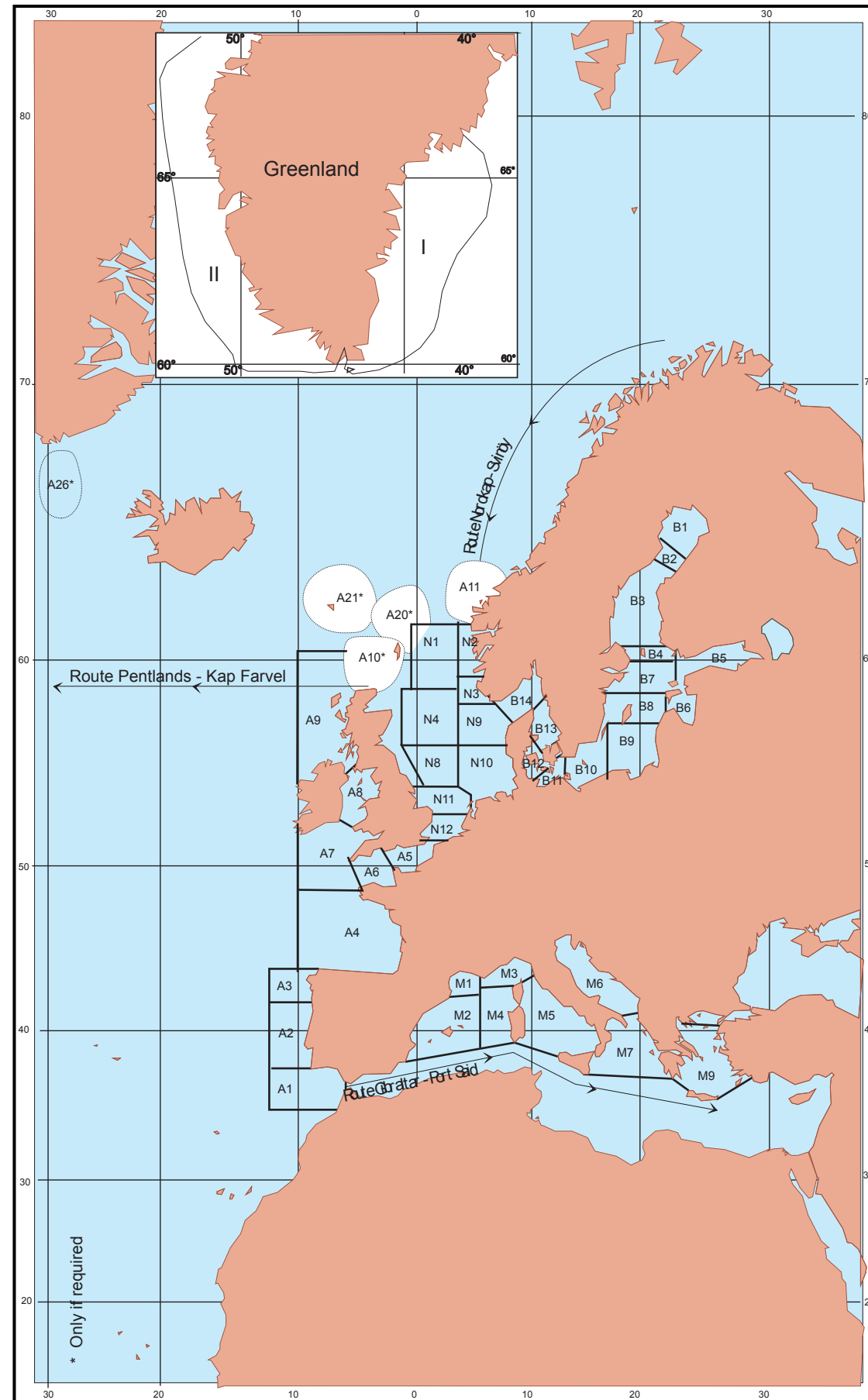
- N1 Viking
- N2 North Utsire) Utsire
- N3 South Utsire) Utsire
- N4 Forties
- N8 Dogger
- N9 Fisher
- N10 German Bight
- N11 Humber) South-west North Sea
- N12 Thames) South-west North Sea

BALTIC SEA

- B1 Bay of Bothnia
- B2 The Quark
- B3 Sea of Bothnia
- B4 Sea of Aaland and Archipelago
- B5 Gulf of Finland
- B6 Gulf of Riga
- B7 Northern part of Baltic Sea
- B8 Central part of Baltic Sea
- B9 South eastern part of Baltic Sea
- B10 Southern part of Baltic Sea
- B11 Western part of Baltic Sea
- B12 Belts and Sound
- B13 Kattegat
- B14 Skagerrak

MEDITERRANEAN:

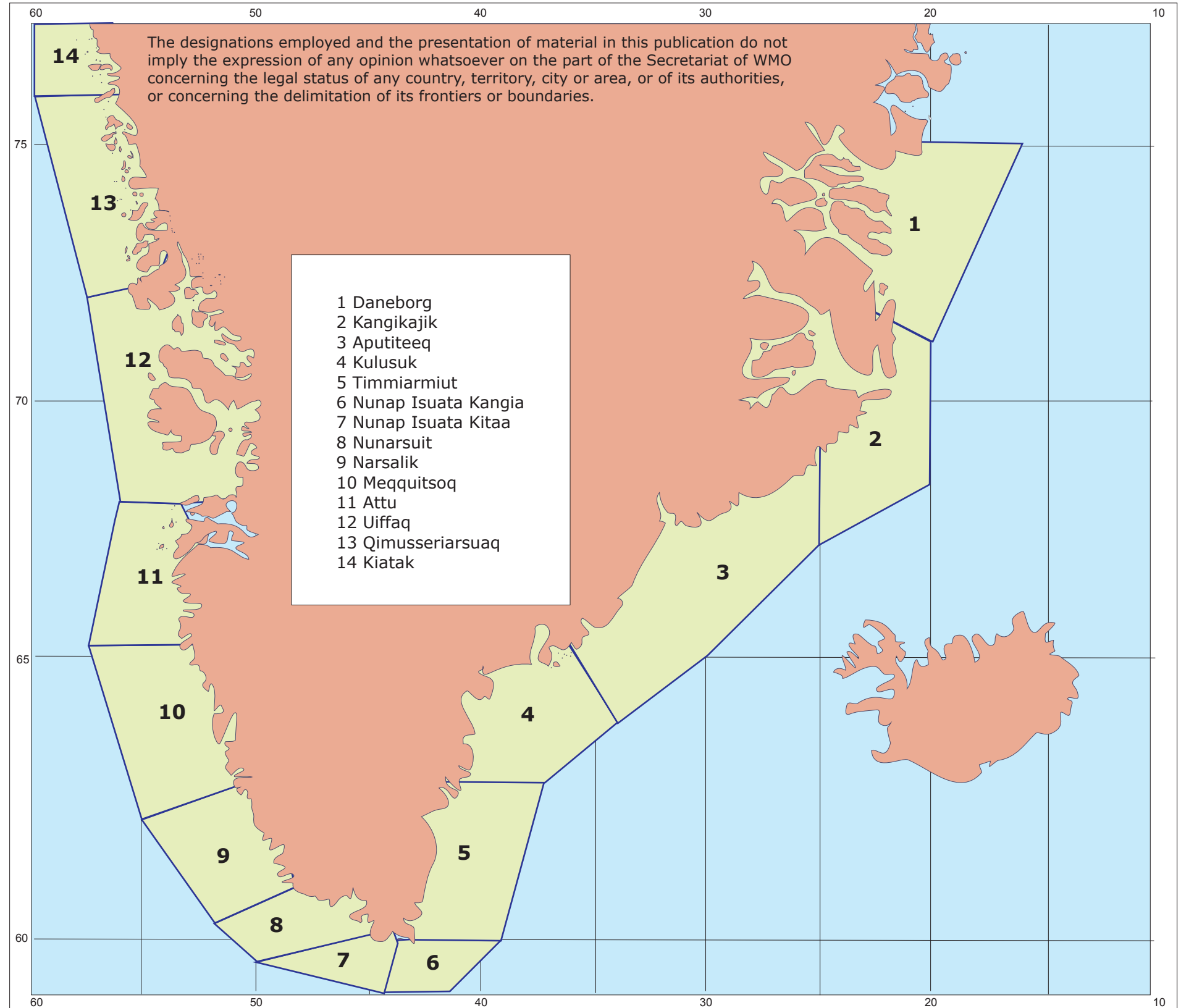
- M1 Golfe du Lion
- M2 Balearic Islands
- M3 Ligurian Sea
- M4 West Corsica - Sardinia
- M5 Tyrrhenian Sea
- M6 Adria
- M7 Ionian Sea
- M9 Aegean sea
- I Southeastern Greenland
- II Southwestern Greenland



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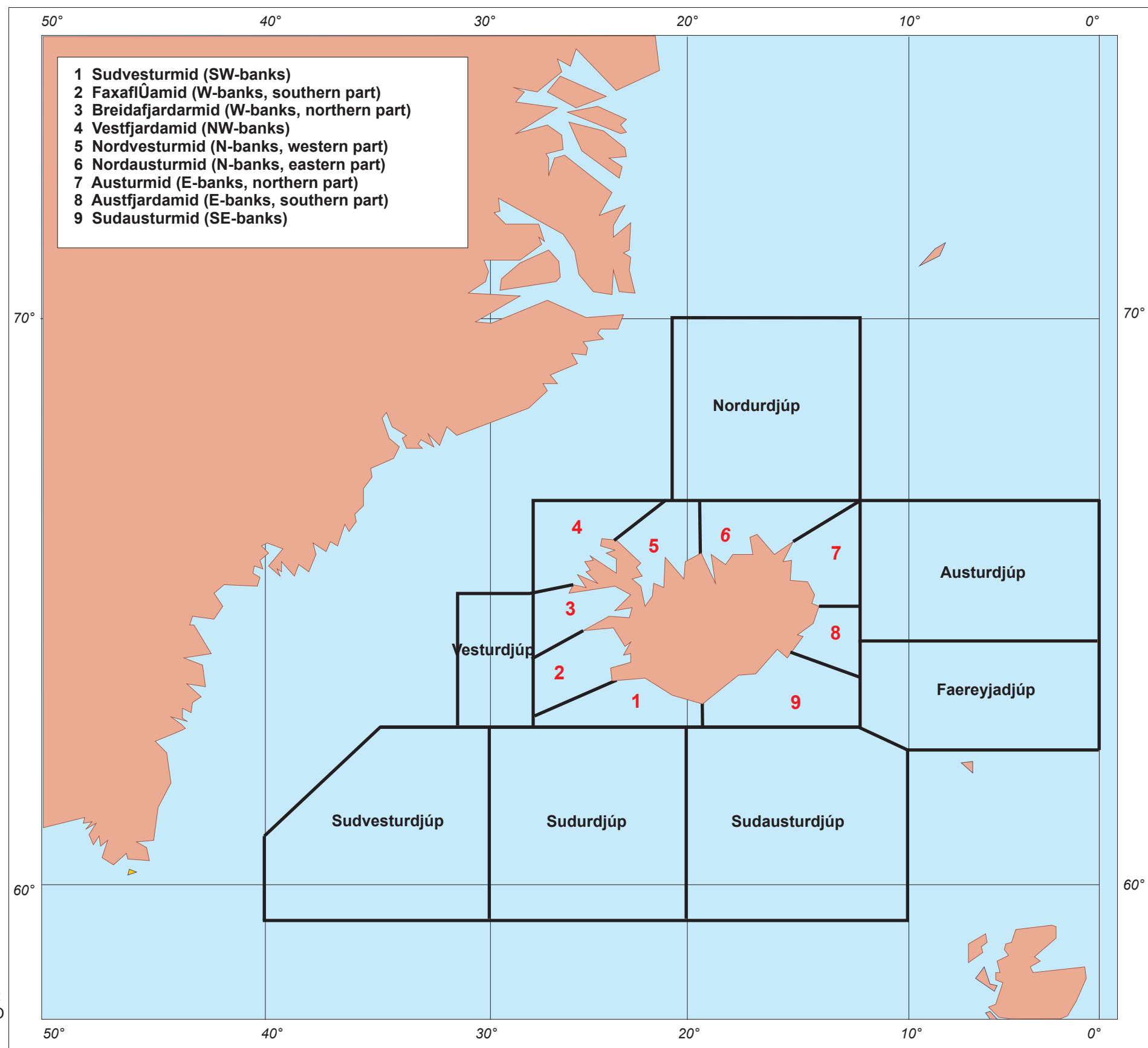
METAREA I, XVII and XVIII - Sub areas

Greenland
Weather Forecast Areas
13 October 2010



METAREA I - Sub areas

Iceland - Islande

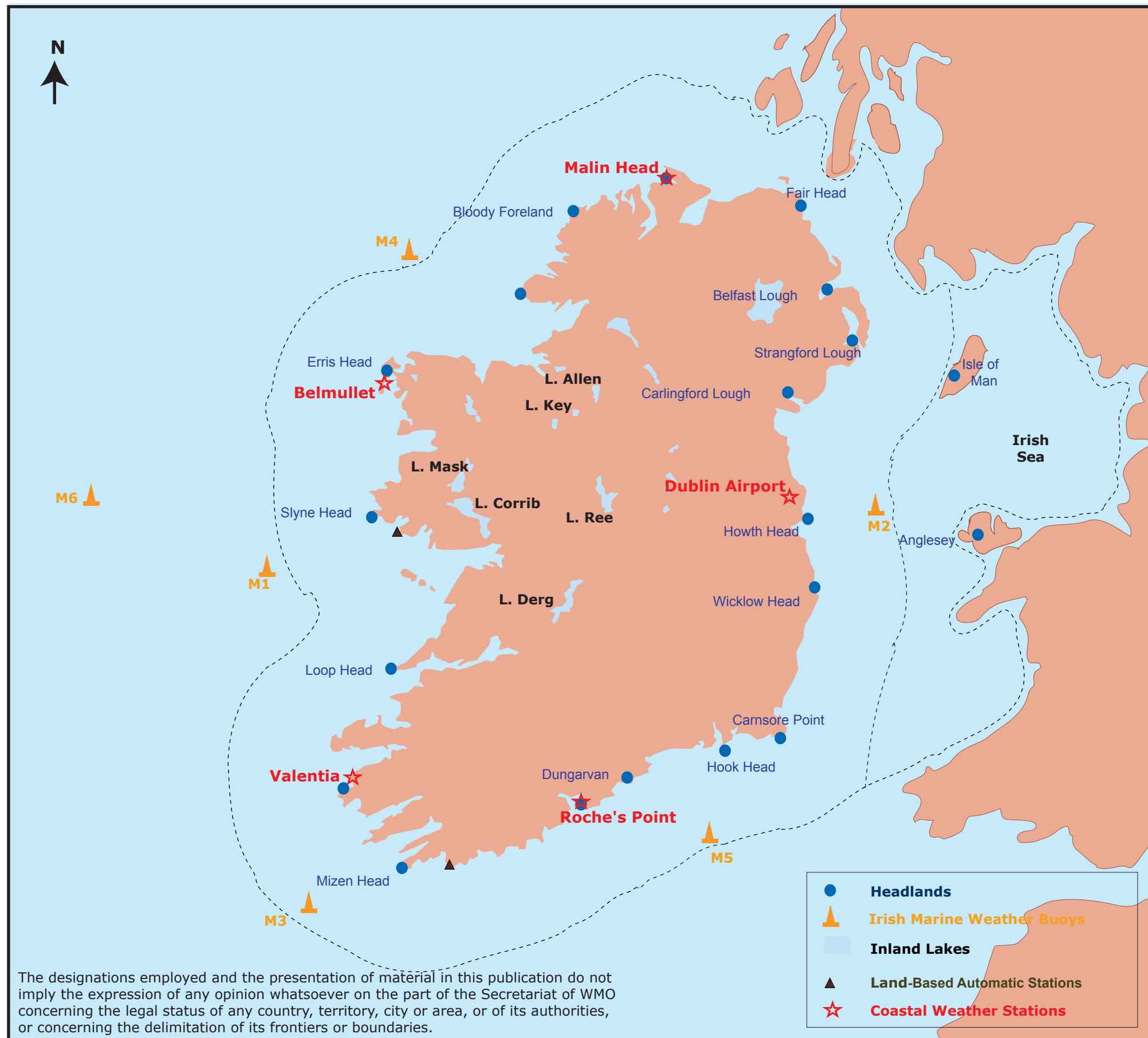


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METAREA I - Sub areas

Ireland - Irlande

Marine Weather Services Sea Area Map



METAREA I - Sub areas

Netherlands - Pays-Bas Areas for Ice Reports

Areas for ice reports (AA-GG):

AA - Delfzijl/Eemshaven and approaches:

- 1 Delfzijl
- 2 Eemshaven
- 3 Eems: Oterdum-Eemshaven
- 4 Eems: Eemshaven-Huibertgat

BB - Harlingen and approach:

- 1 Harlingen
- 2 Along Pollendam
- 3 Blauwe Slenk
- 4 Vlietstroom and Stortemelk

CC - Den Helder and approach:

- 1 Den Helder
- 2 Texelstroom and Marsdiep
- 3 Schulpengat

DD - Amsterdam/Zaandam and approaches:

- 1 Branch canal G and Zaandam harbours
- 2 Amsterdam East harbours
- 3 Amsterdam West harbours
- 4 Branch canal A (Beverwijk)
- 5 North Sea canal
- 6 IJmuiden locks - fairway buoy

EE - Rotterdam and approach:

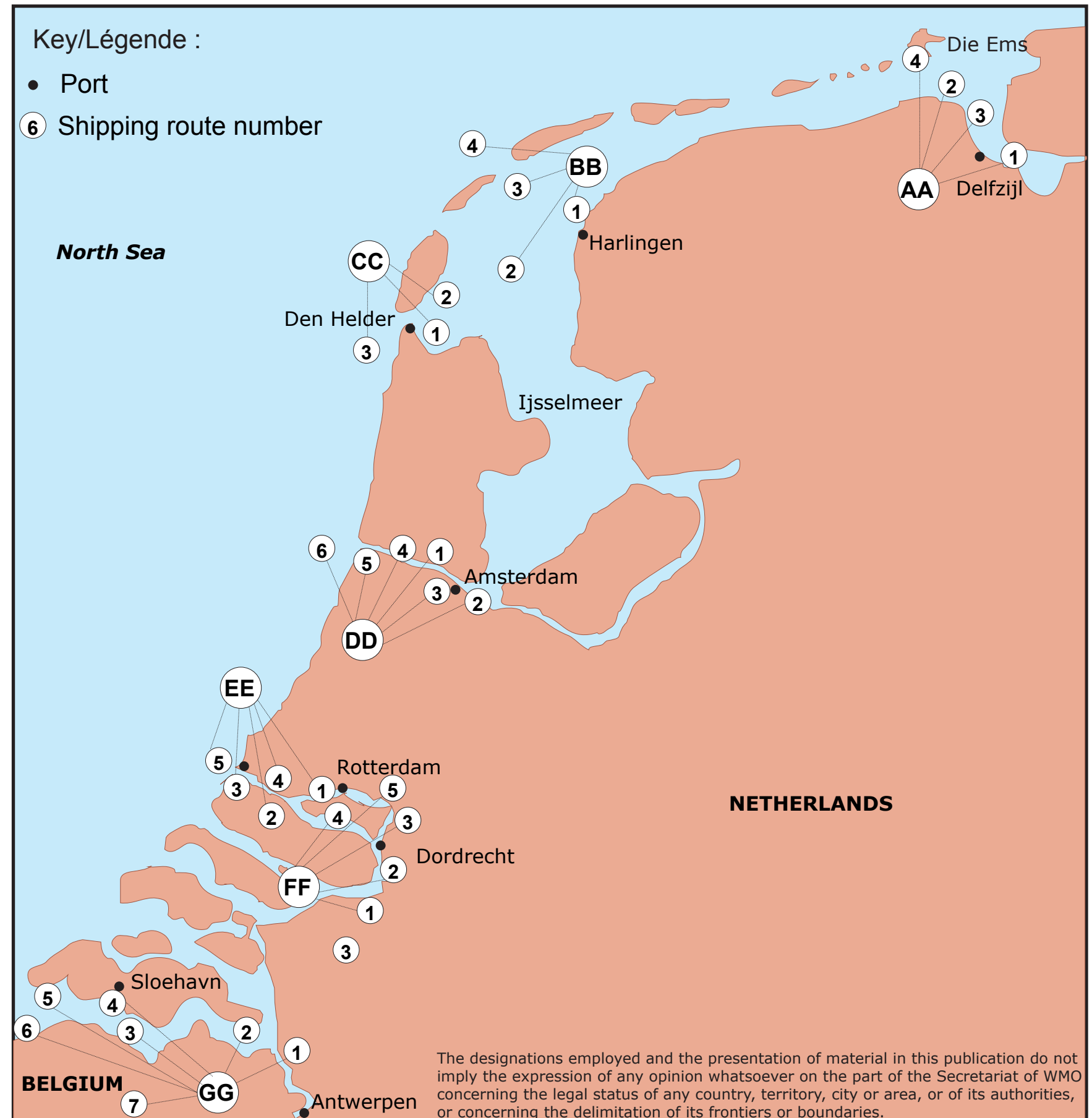
- 1 Nieuwe Maas and harbours
- 2 Botlek harbours
- 3 Europort
- 4 New Waterway
- 5 Hook of Holland - fairway buoy

FF - Rotterdam to Dordrecht/Moerdijk harbours:

- 1 Moerdijk
- 2 Moerdijk - Dordrecht
- 3 Dordrecht
- 4 Oude Maas
- 5 Noord

GG - Schelde harbours and approaches:

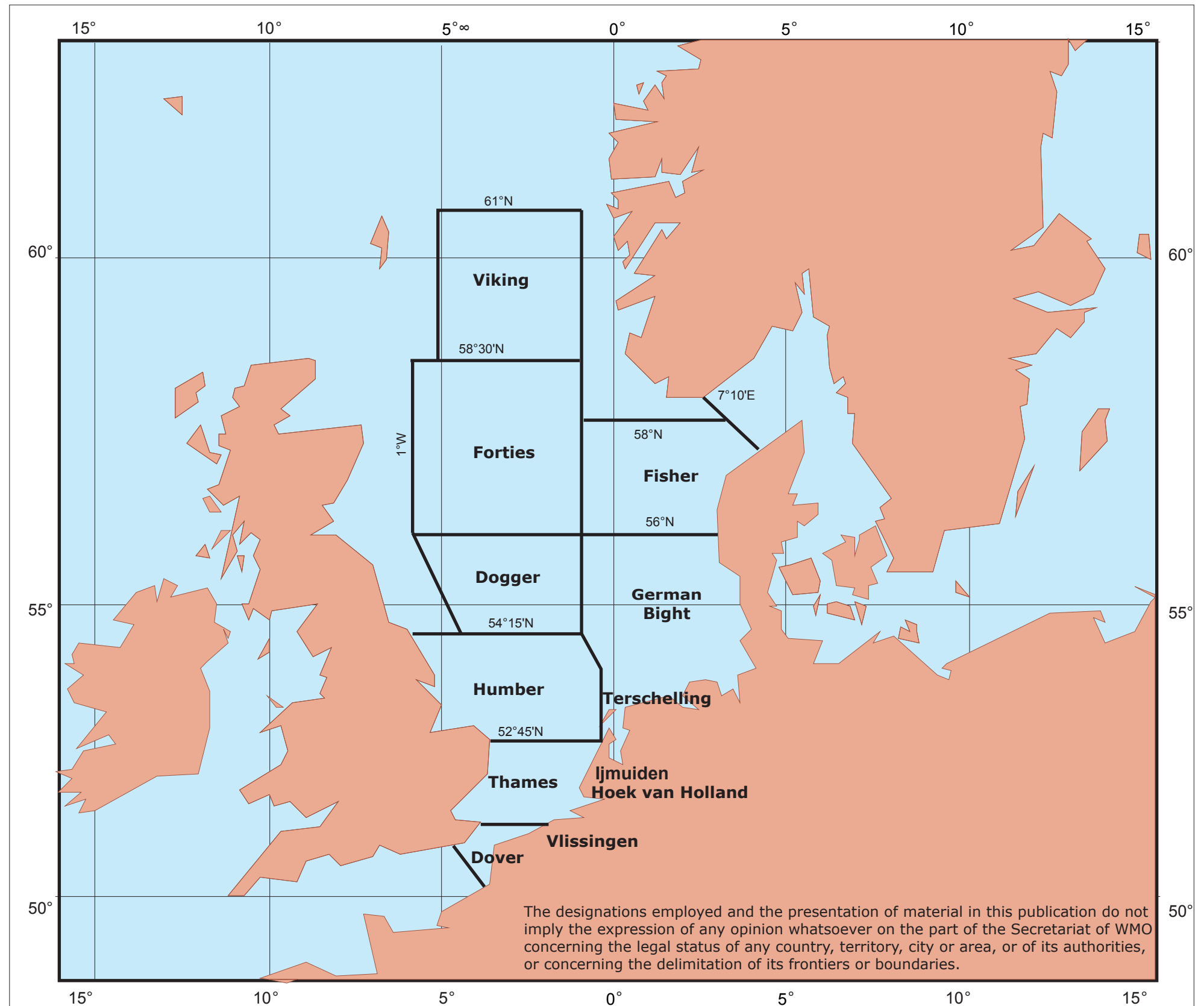
- 1 Antwerp harbours
- 2 Schelde: Antwerp-Hansweert
- 3 Schelde: Hansweert-Flushing roads
- 4 Sloe harbour
- 5 Oostgat
- 6 Wielingen
- 7 Canal Terneuzen-Gent



METAREA I - Sub areas

Netherlands - Pays-Bas

Weather Forecast Areas

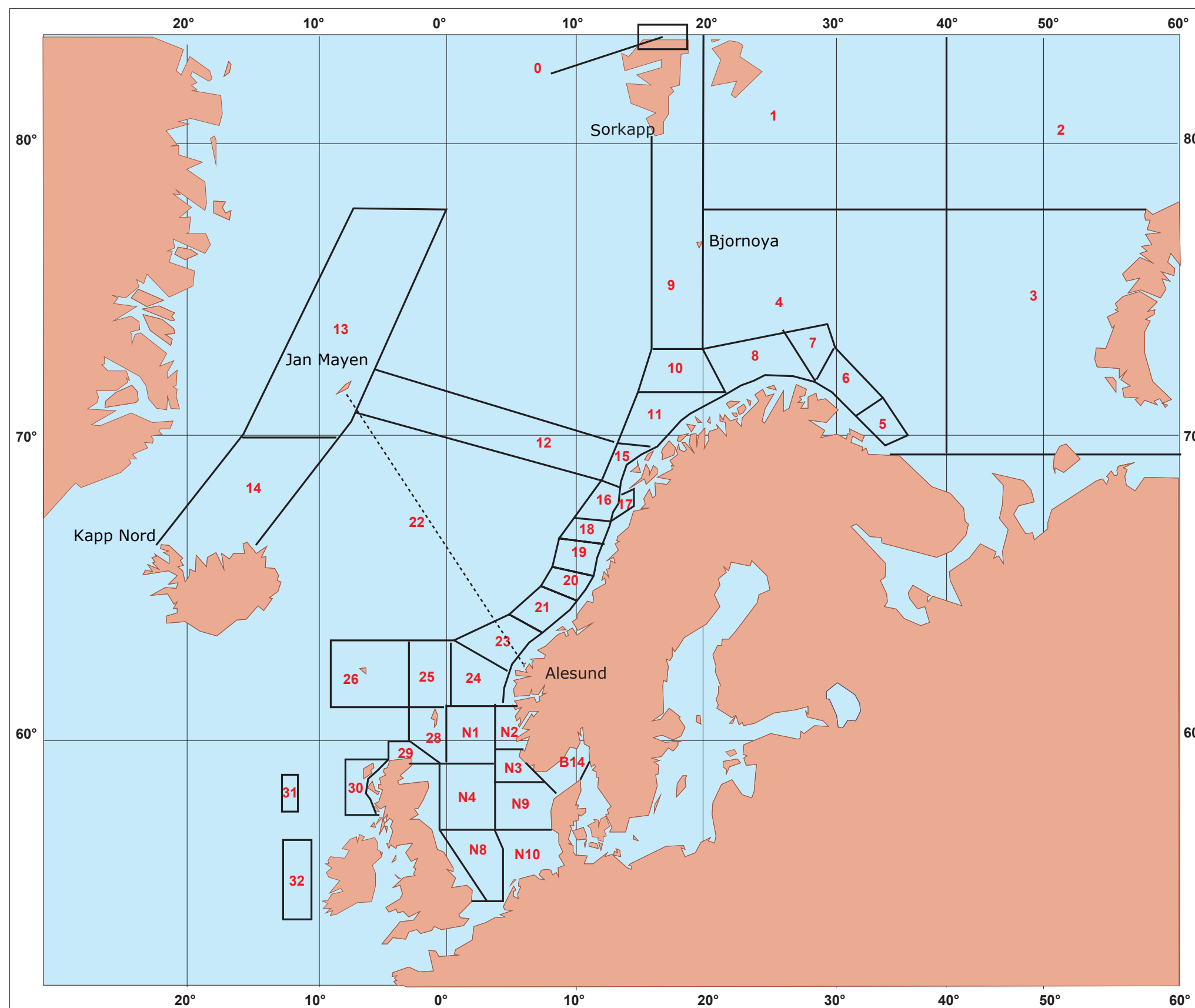


METAREA I - Sub areas

Norway - Norvège

Weather Forecast Areas

0. Fishing grounds north of Spitsbergen (Svalbard)
1. NW Barentshavet
2. NE Barentshavet
3. SE Barentshavet
4. SW Barentshavet
5. Kildinbanken
6. Nordbanken
7. Nordkappbanken
8. Hjelmsoybanken
9. Tromso flaket to Sorkapp
10. Tromso flaket
11. Banks of Tromso
12. Vesteralsbankene to Jan Mayen
13. Western ice, from 70°N to 75°N
14. Western ice, from Kapp Nord to 70°N
15. Vesteralsbankene
16. Rostbanken
17. Outer Vestfjorden
18. Traenabanken
19. Sklinnabanken
20. Haltenbanken
21. Froyabanken
22. Alesund to Jan Mayen
25. West Tampen
26. Faeroybankene
28. Shetlandsbankene
29. Orknoyene
30. Hebridene
31. Rockall
32. Fishing grounds west of Ireland
- B14 Skagerrak
- N1 Viking
- N2 N. Utsira
- N3 S. Utsira
- N4 Fladen
- N8 Dogger
- N9 Fisker
- N10 Tyskebukta



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METAREA I - Sub areas

Poland - Pologne

Districts, fairways and harbours of Polish coastal areas for ice reports (AA-CC)

Districts, fairways and harbours of Polish coastal areas for ice reports (AA-CC)

Regions for Ice Reports (AA-CC):

AA

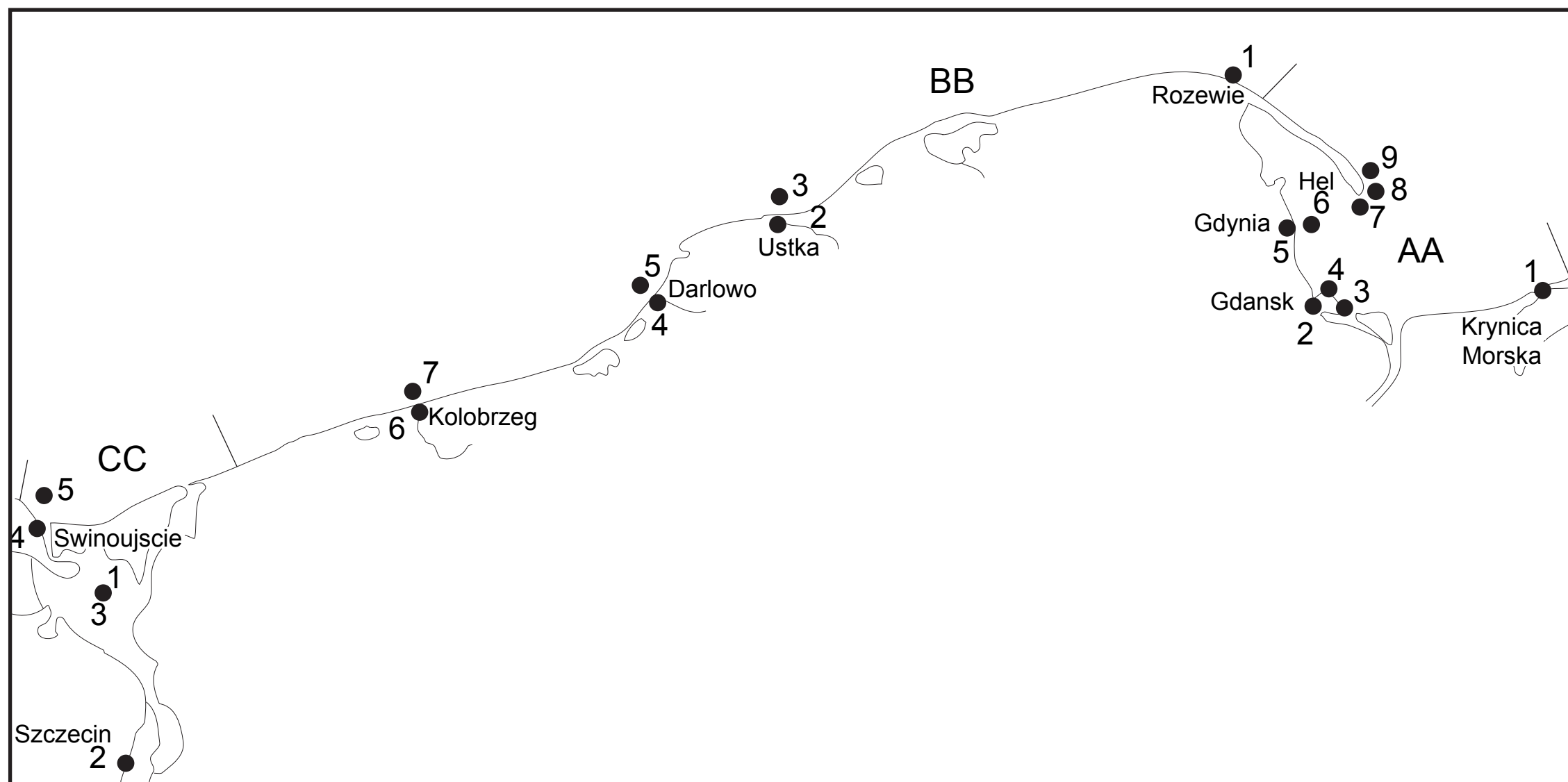
- 1 Sea area off Krynica Morska
- 2 Gdansk harbour
- 3 Gdansk-Port Polnocny harbour
- 4 Sea area off Gdansk
- 5 Gdynia harbour
- 6 Sea area off Gdynia
- 7 Sea area S of Hel
- 8 Sea area E of Hel
- 9 Sea area N of Hel

BB

- 1 Sea area off Rozewie
- 2 Ustka harbour
- 3 Sea area off Ustka
- 4 Darlowo harbour
- 5 Sea area off Darlowo
- 6 Kolobrzeg harbour
- 7 Sea area off Kolobrzeg

CC

- 1 Firth of Szczecin
- 2 Szczecin harbour
- 3 Fairway Swinoujscie-Szczecin
- 4 Swinoujscie harbour
- 5 Sea area off Swinoujscie

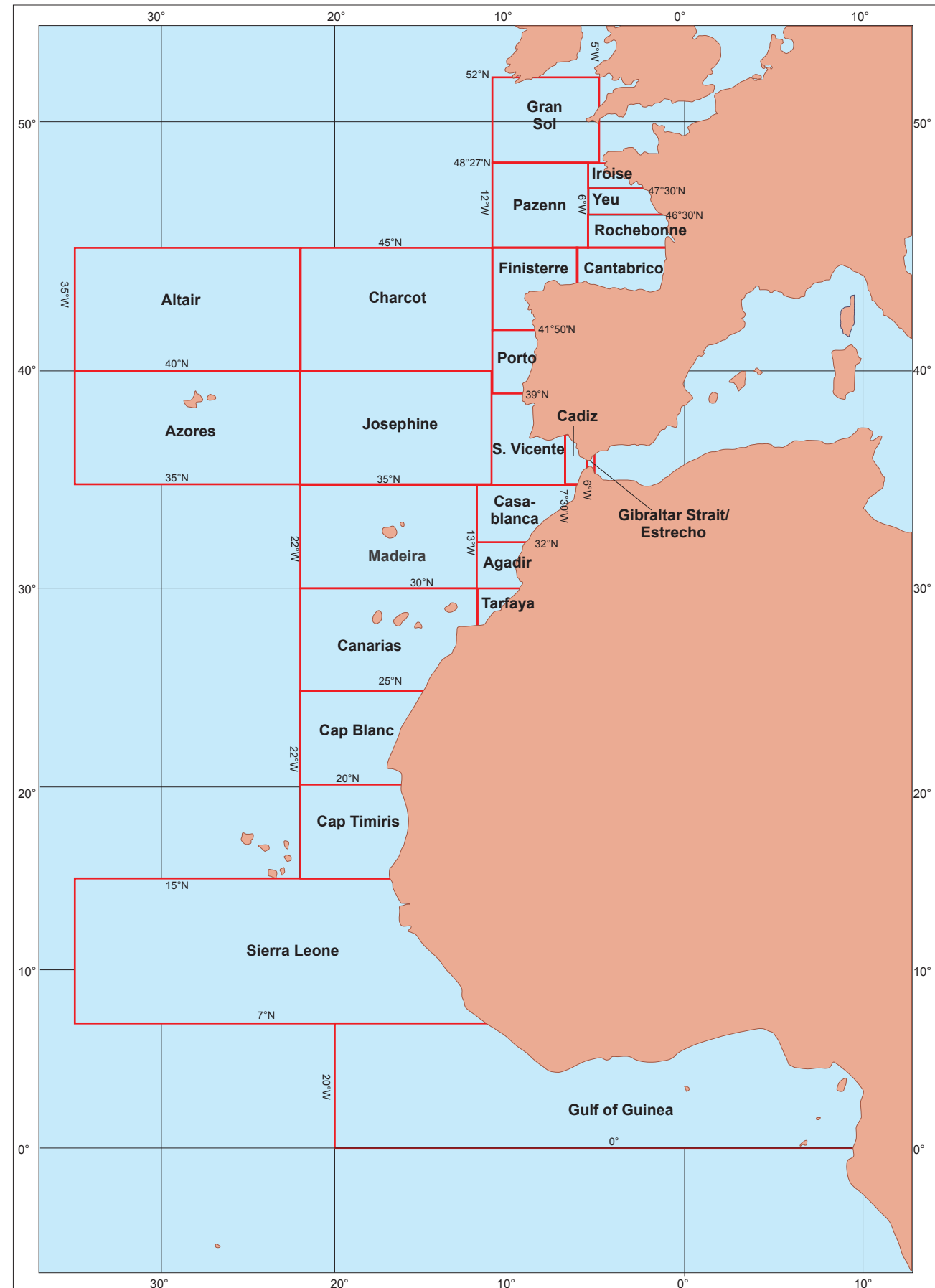


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METAREA I - Sub areas

Spain - Espagne

Weather Forecast Areas (High Seas/Atlantic)

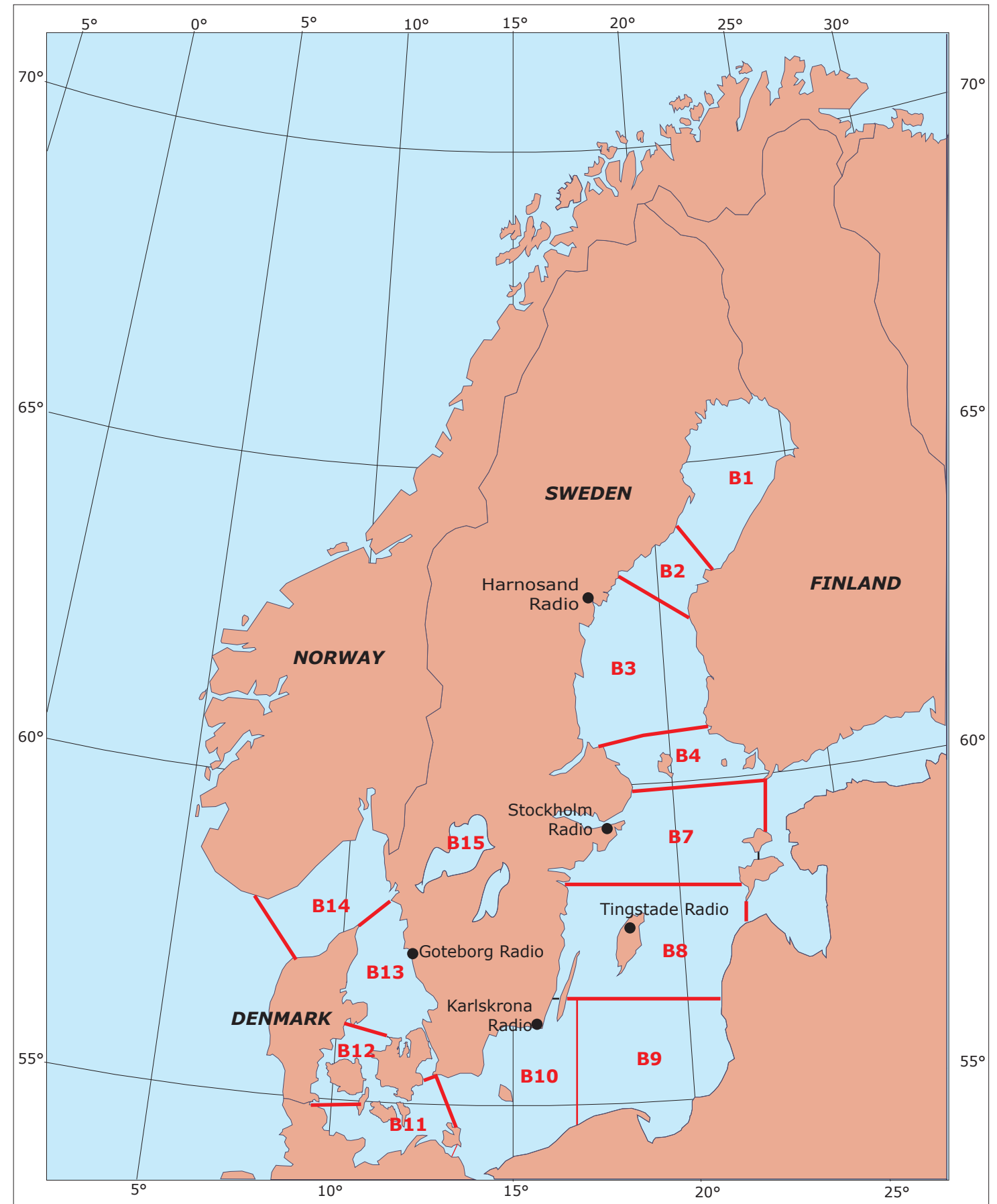


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METAREA I - Sub areas

Sweden - Suède Coastal Forecast and Storm Warning Areas

- B1 Bay of Bothnia
- B2 The Quark
- B3 Sea of Bothnia
- B4 Sea of Aaland and Archipelago
- B5 Gulf of Finland
- B6 Gulf of Riga
- B7 Northern Baltic
- B8 Central Baltic
- B9 Southeastern Baltic
- B10 Southern Baltic
- B11 Western Baltic
- B12 The Sound and the Belts
- B13 Kattegat
- B14 Skagerrak
- B15 Lake Vaenern



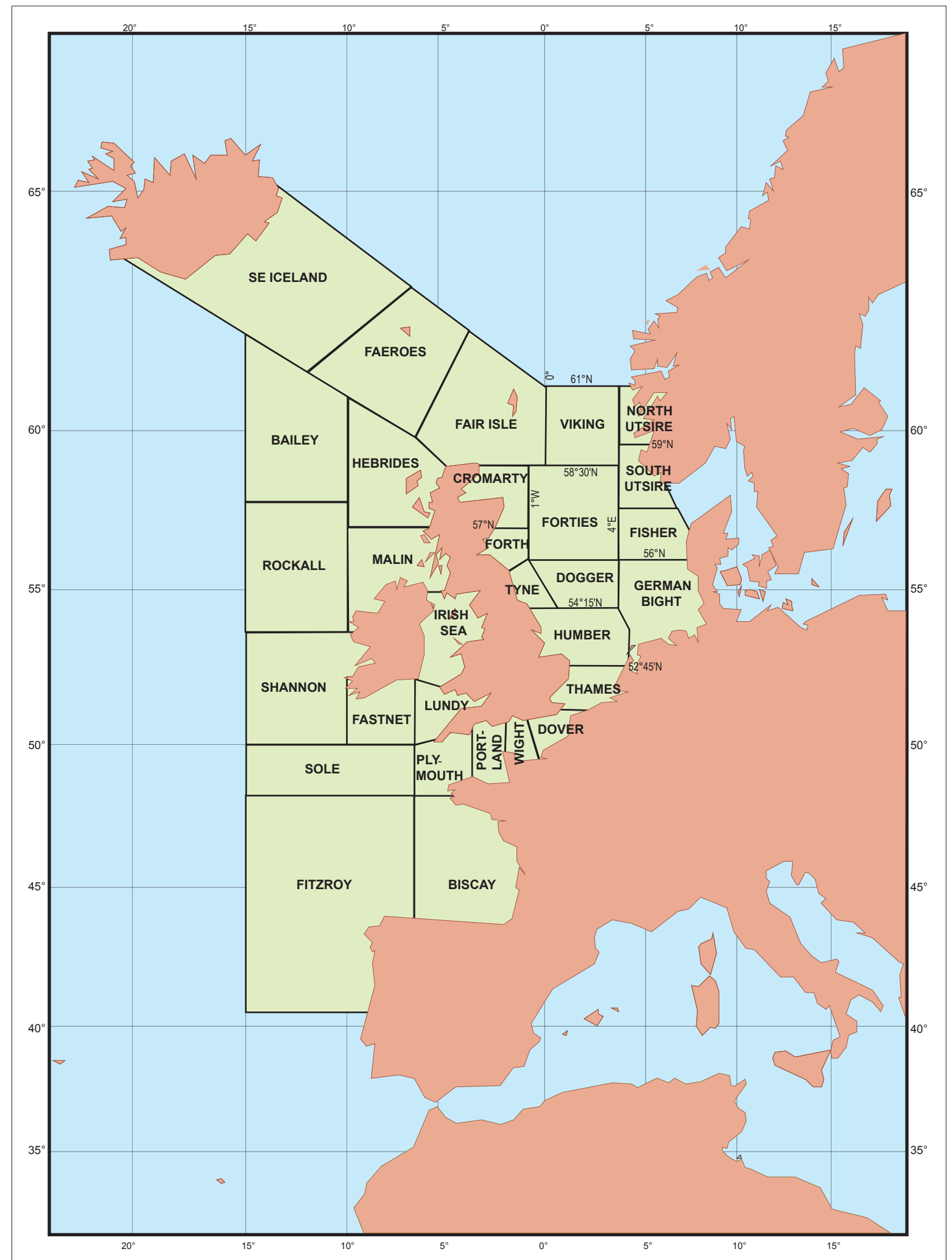
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METAREA I

United Kingdom of Great Britain and Northern Ireland
Royaume Uni de Grande-Bretagne et d'Irlande du Nord

NAVTEX Forecasts

29 January 2015



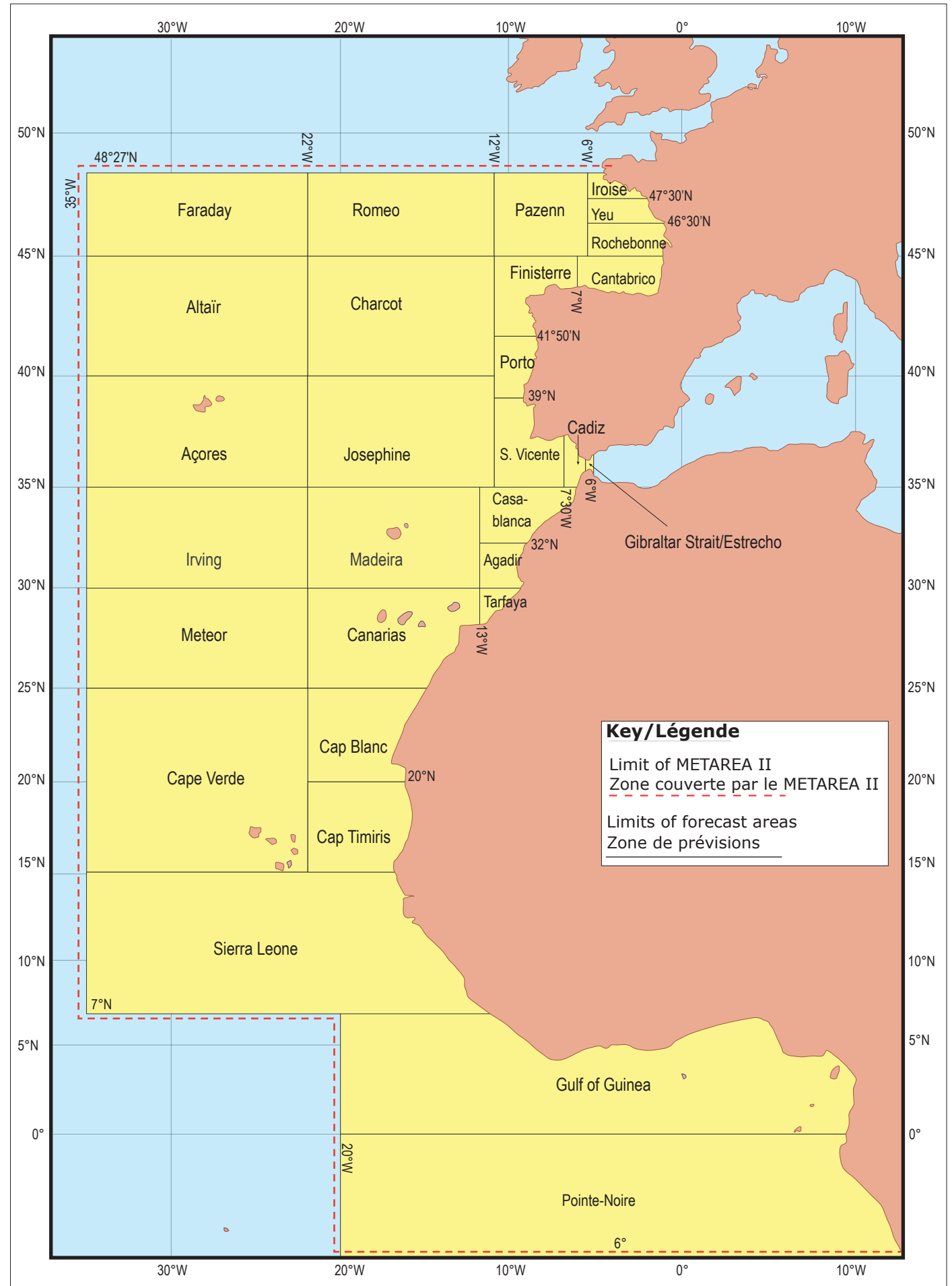
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METAREA II

France

SafetyNET Forecast Areas
02 February 2015

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METAREA II - Sub areas

France

Forecast Areas

30 October 2016

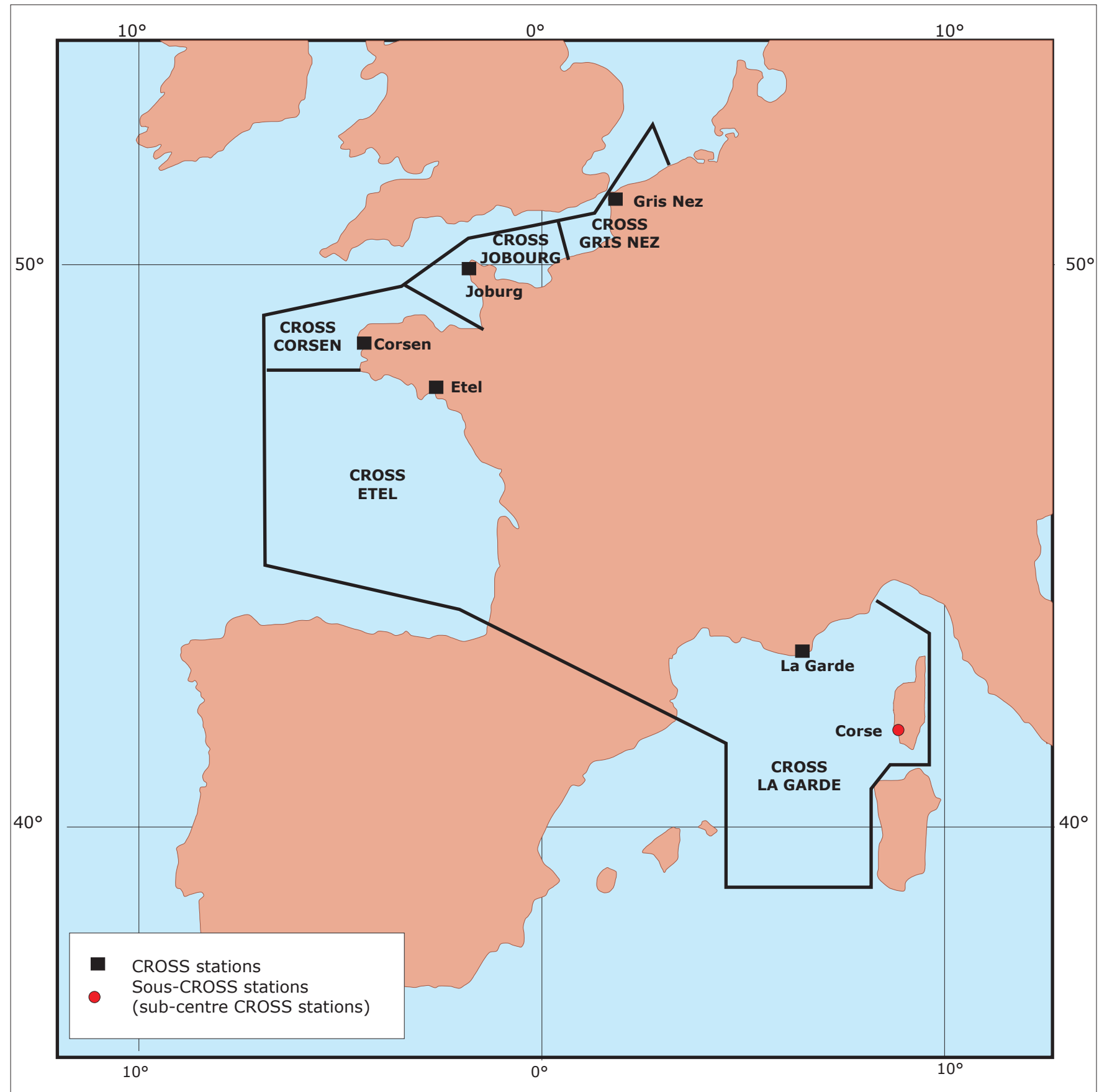


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METAREA II

France

Areas of responsibility of Centres Régionaux Opérationnels de Surveillance et de Sauvetage (CROSS) stations

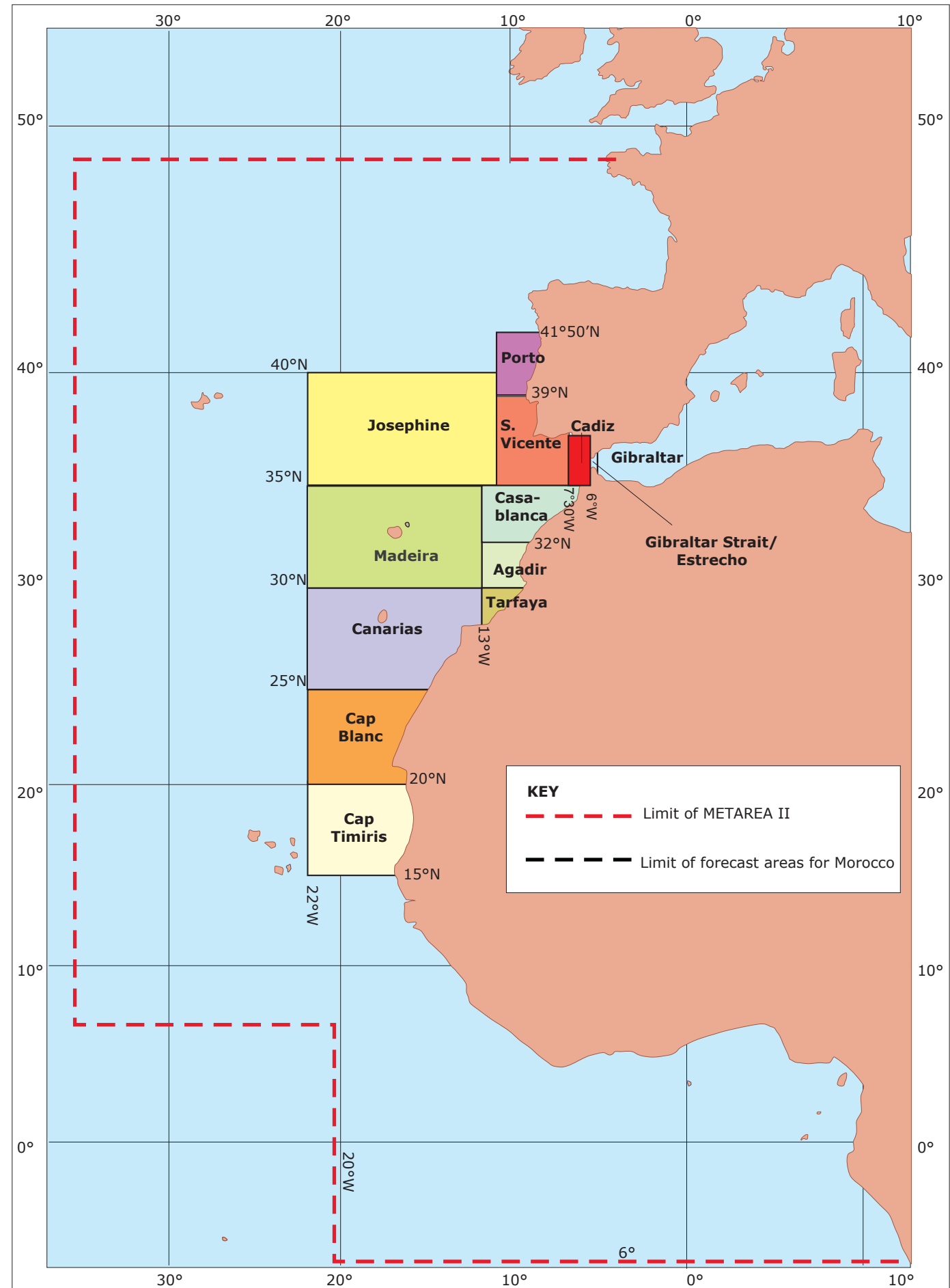


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METAREA II - Sub areas

Morocco - Maroc

23 February 2008

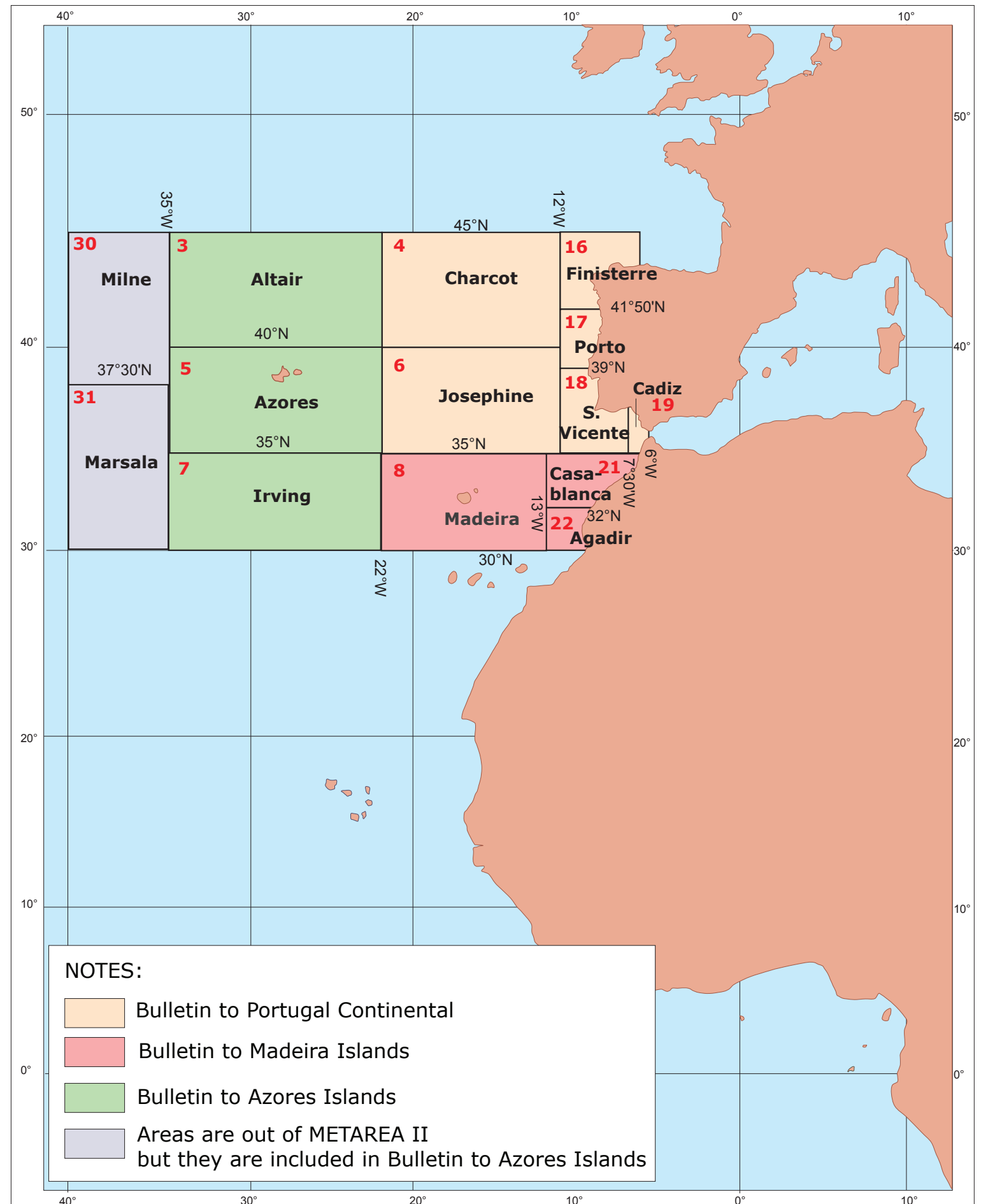


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METAREA II - Sub areas

PORTUGAL (Azores) - PORTUGAL (Açores)

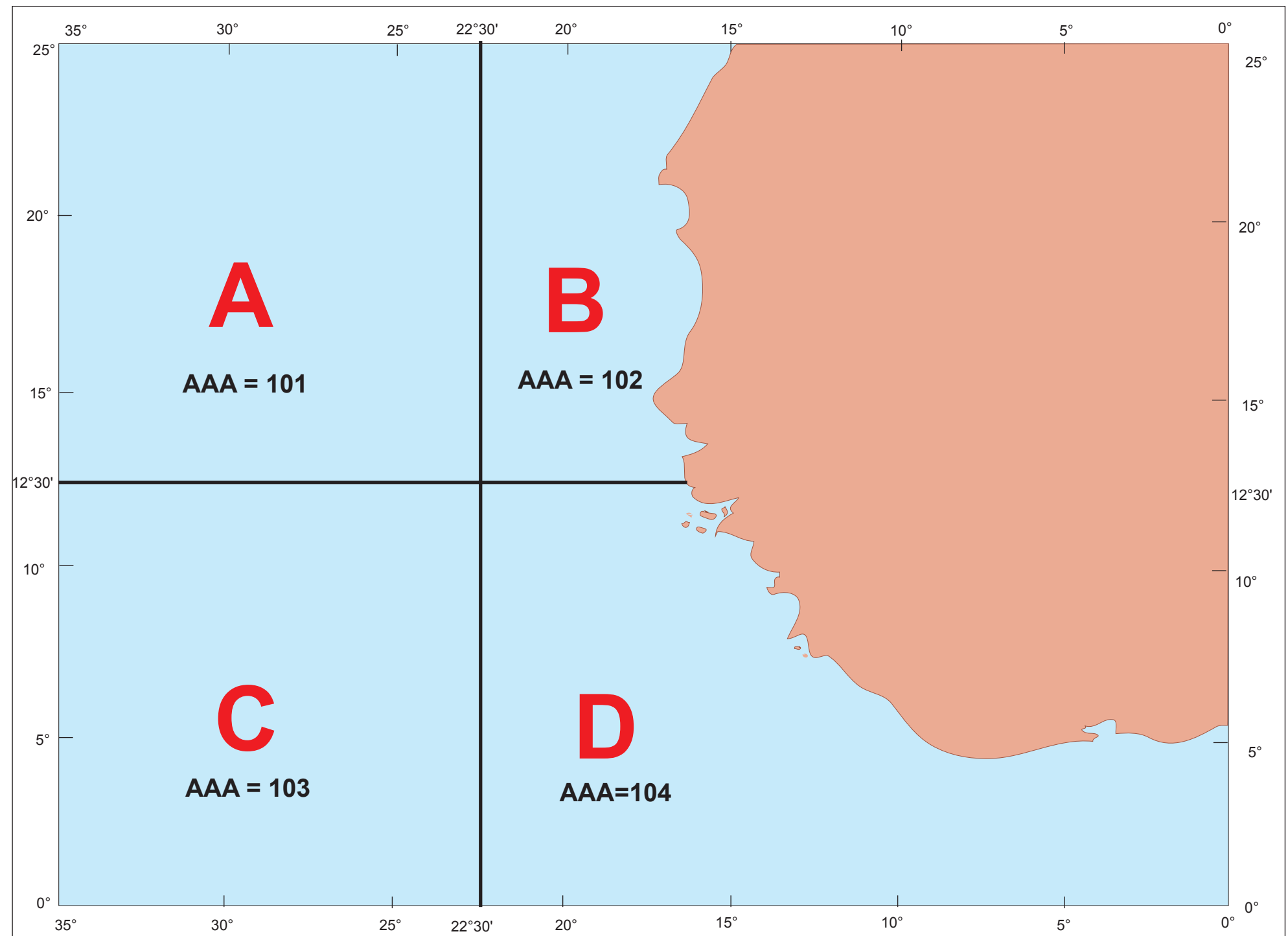
Weather Forecast Areas



METAREA II - Sub areas

Senegal - Sénégal

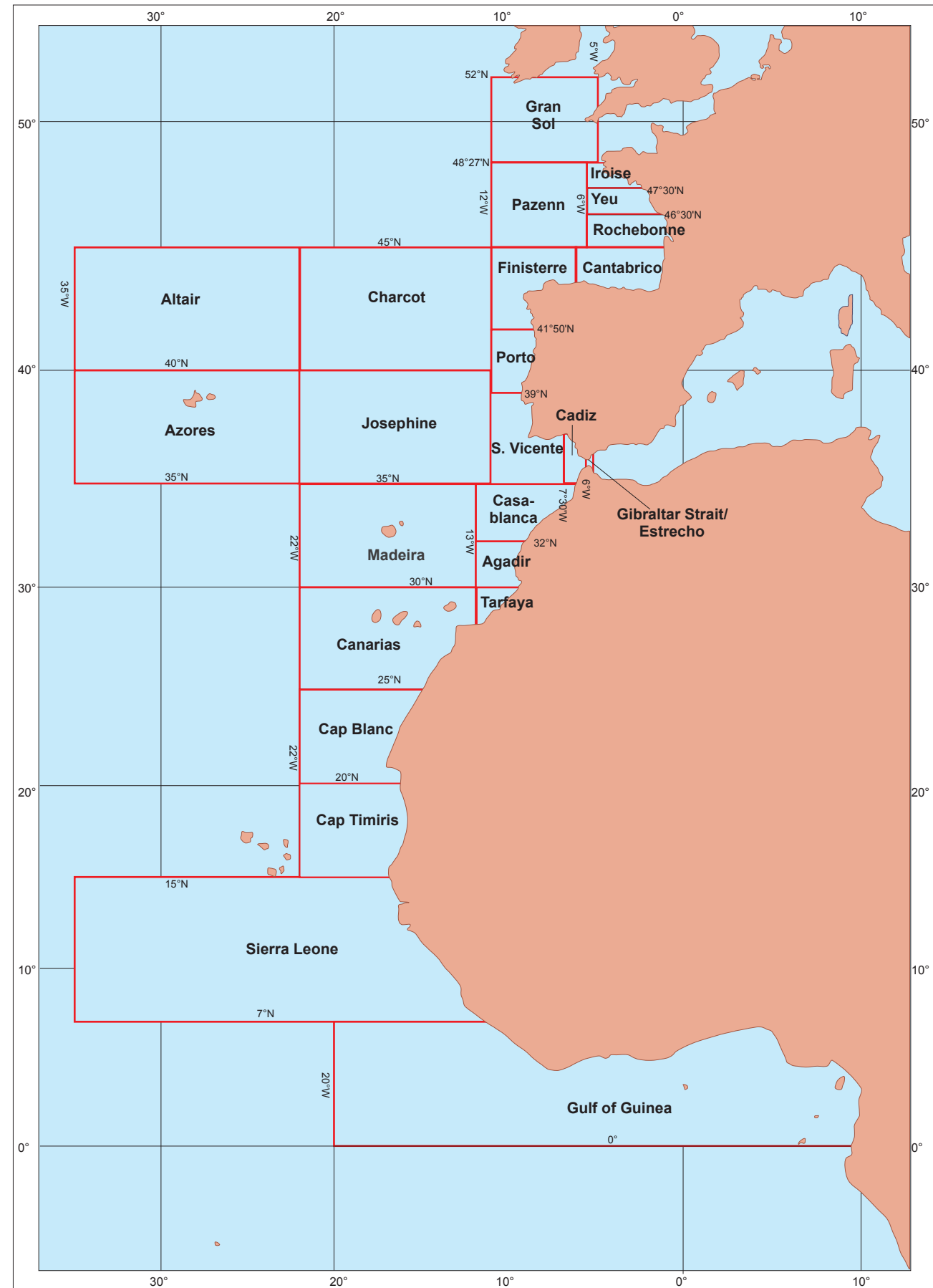
Weather Forecast Areas



METAREA II - Sub areas

Spain - Espagne

Weather Forecast Areas (High Seas/Atlantic)

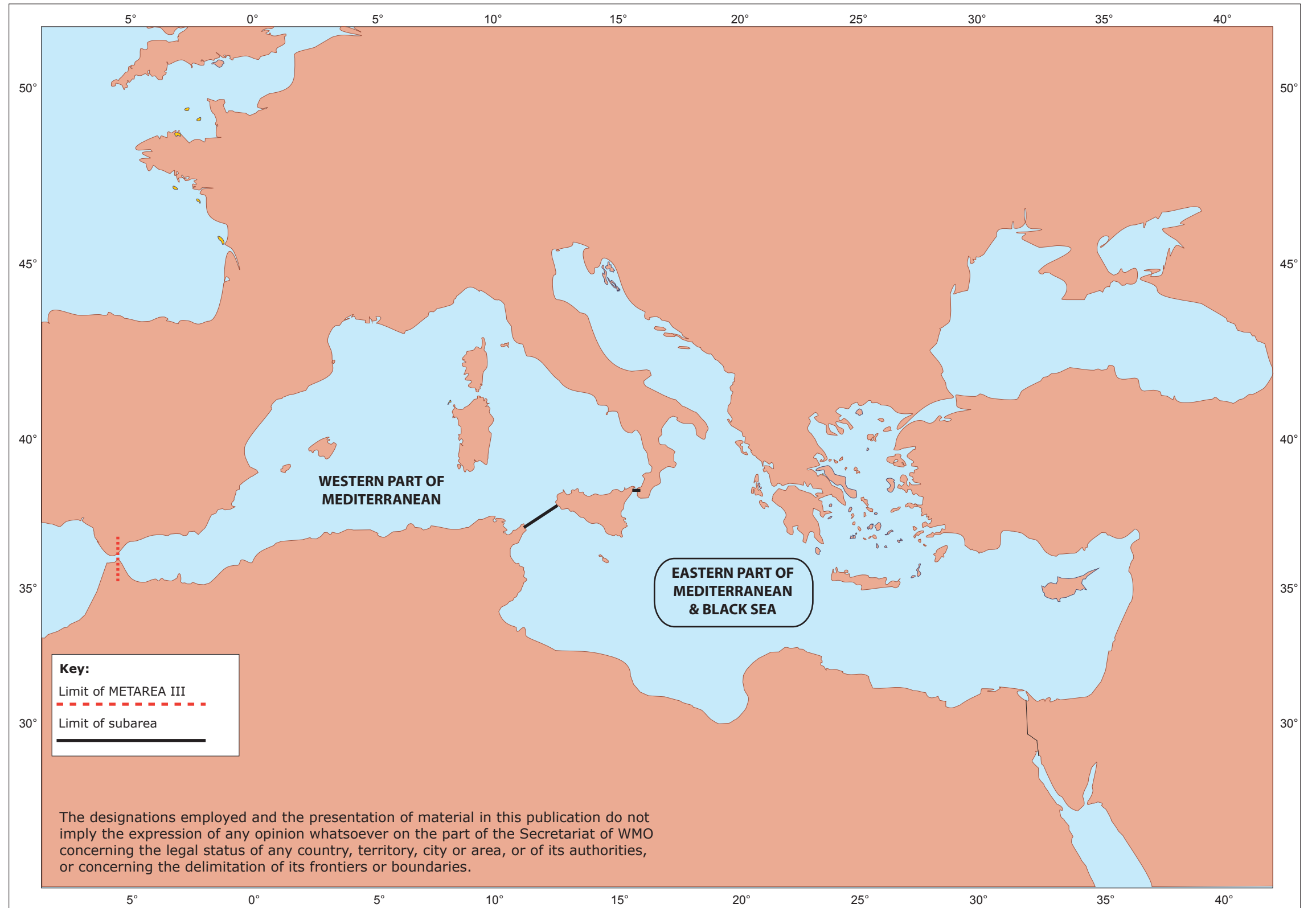


METAREA III

France/Greece - France/Grèce

SafetyNET forecast areas

2 February 2015

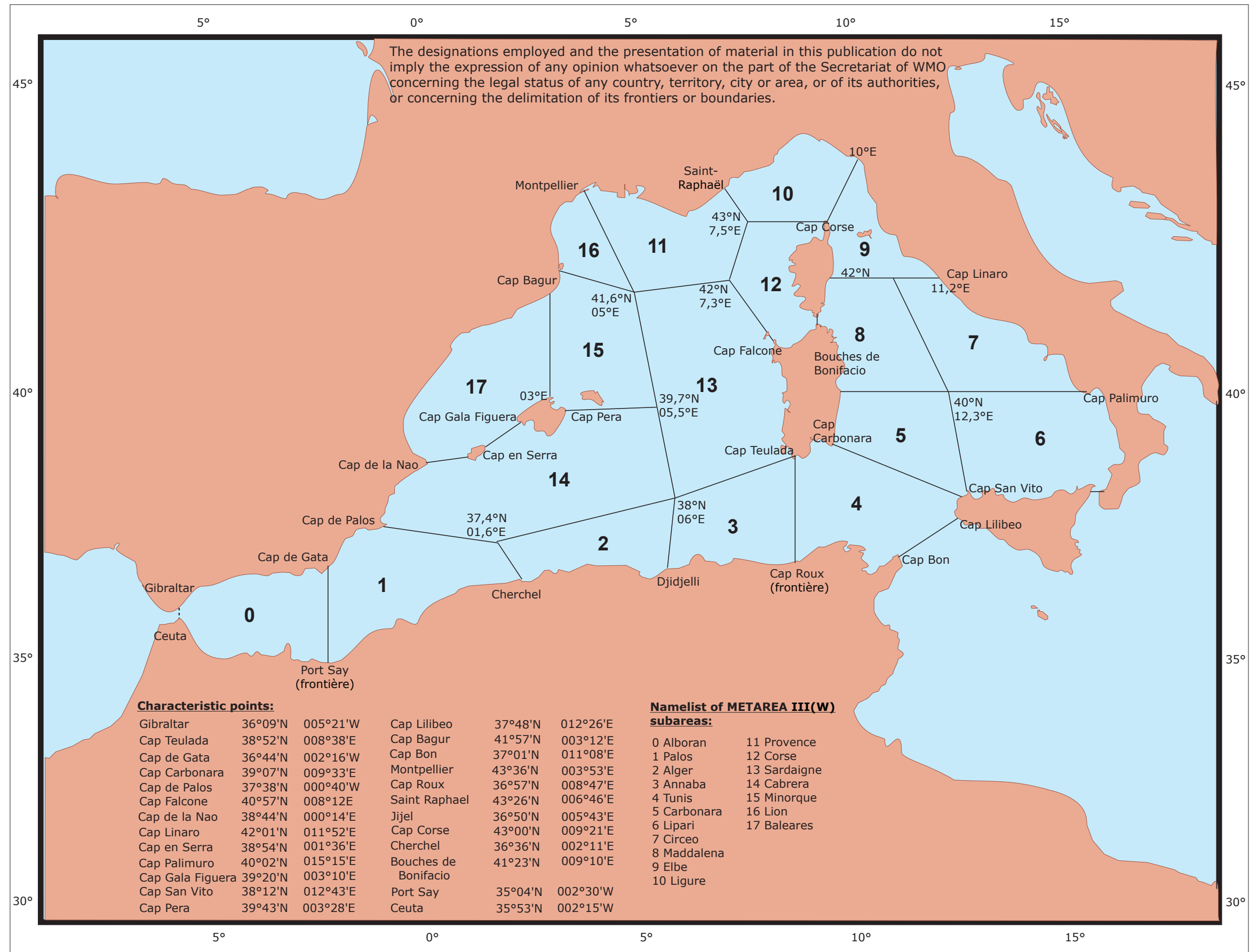


METAREA III(W) subareas:

France

SafetyNET forecast areas

2 February 2015

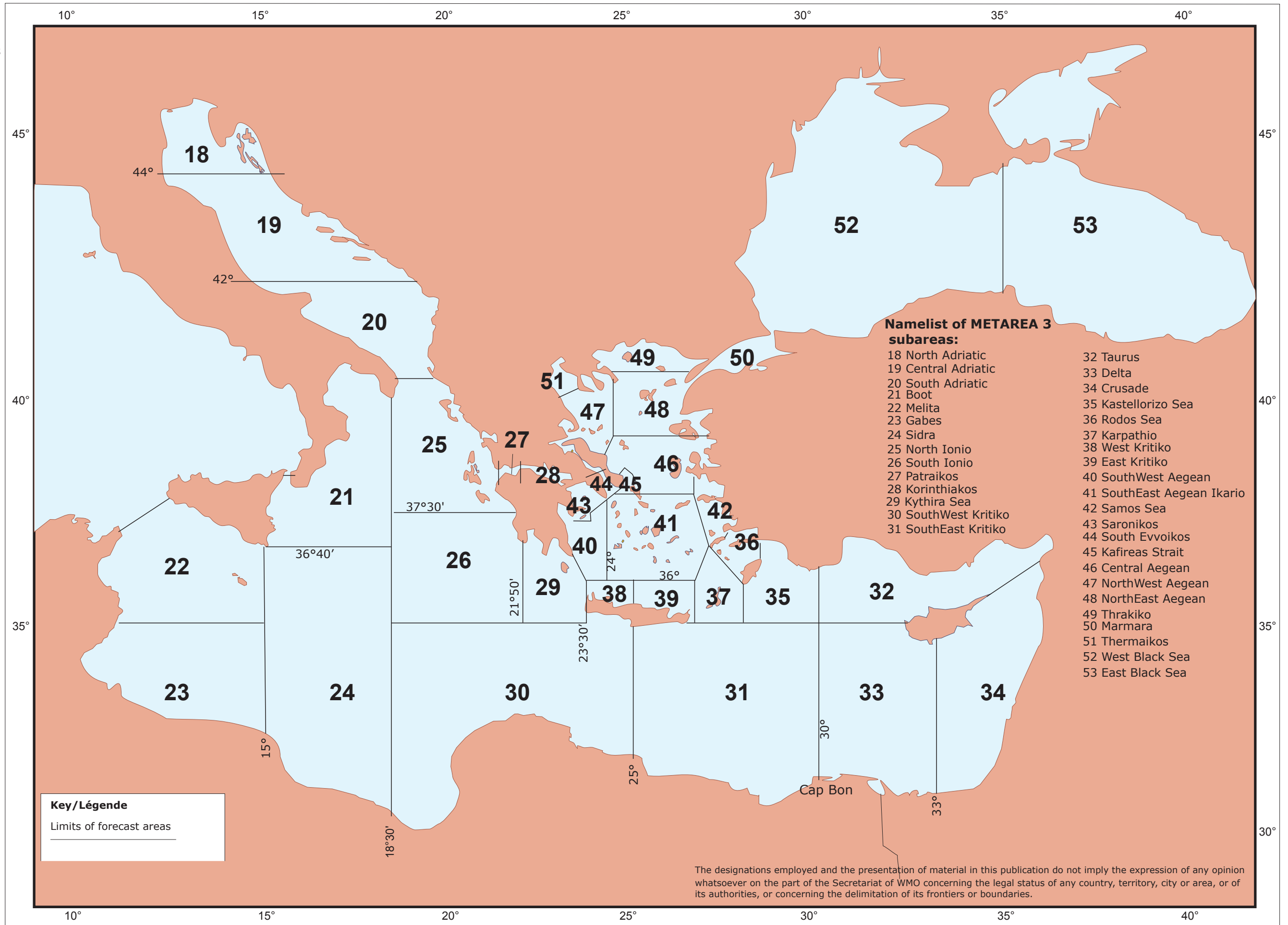


METAREA III(E) subareas

Greece - Grèce

SafetyNET forecast areas

2 February 2015

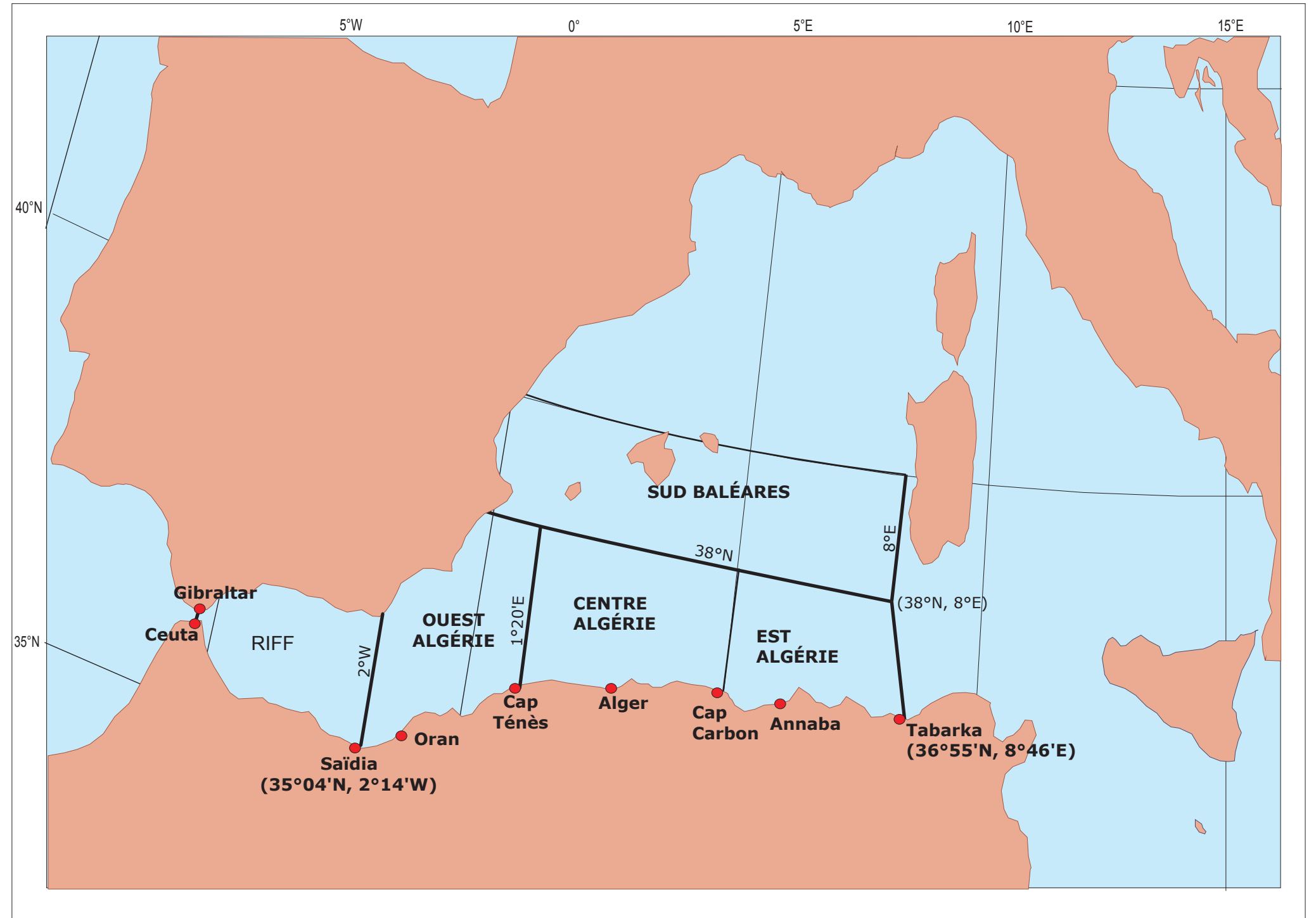


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METAREA III - Sub areas

Algeria - Algérie

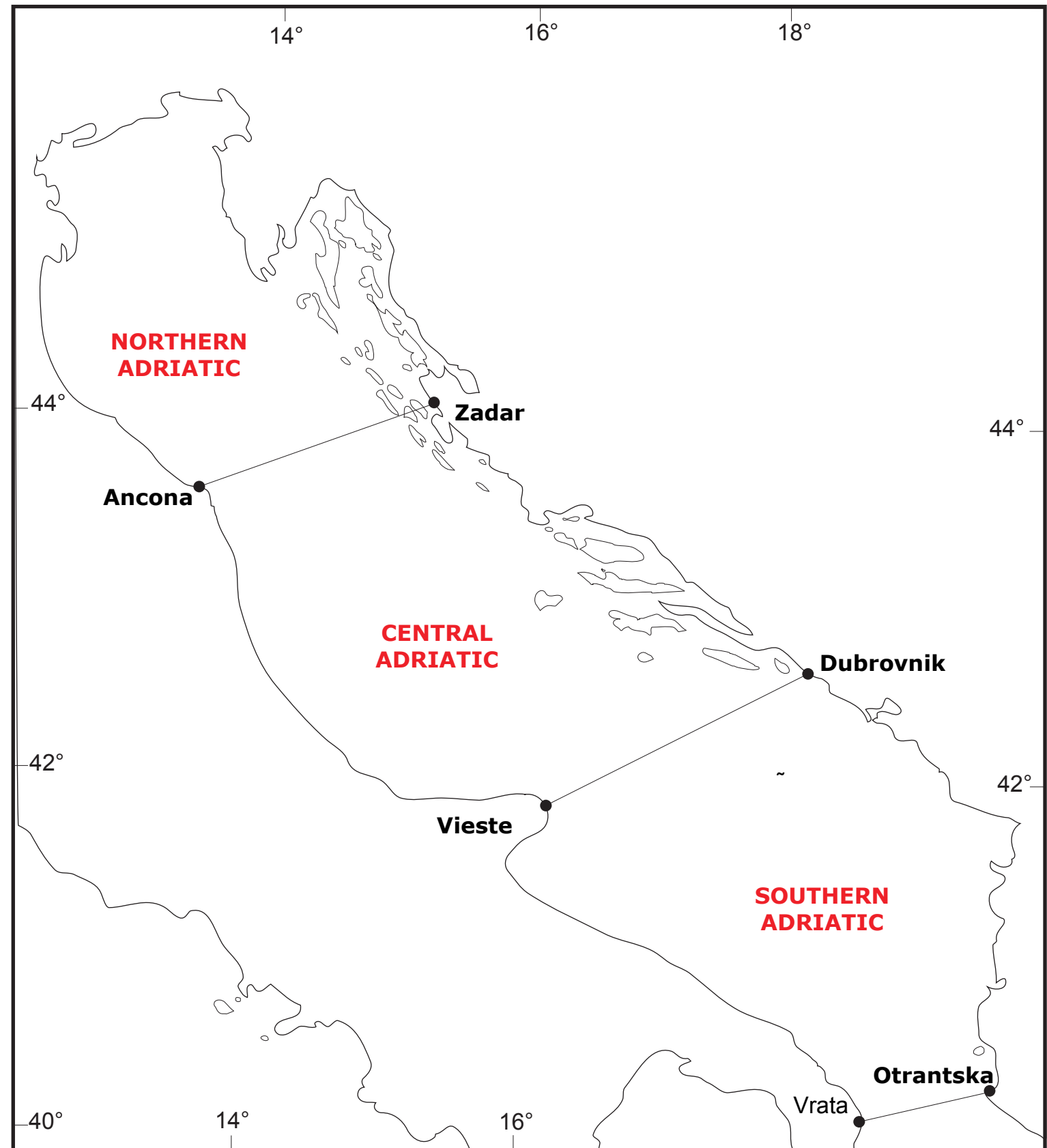
Coastal Forecast Areas



METAREA III - Sub areas

Croatia - Croatie

Weather Forecast Areas



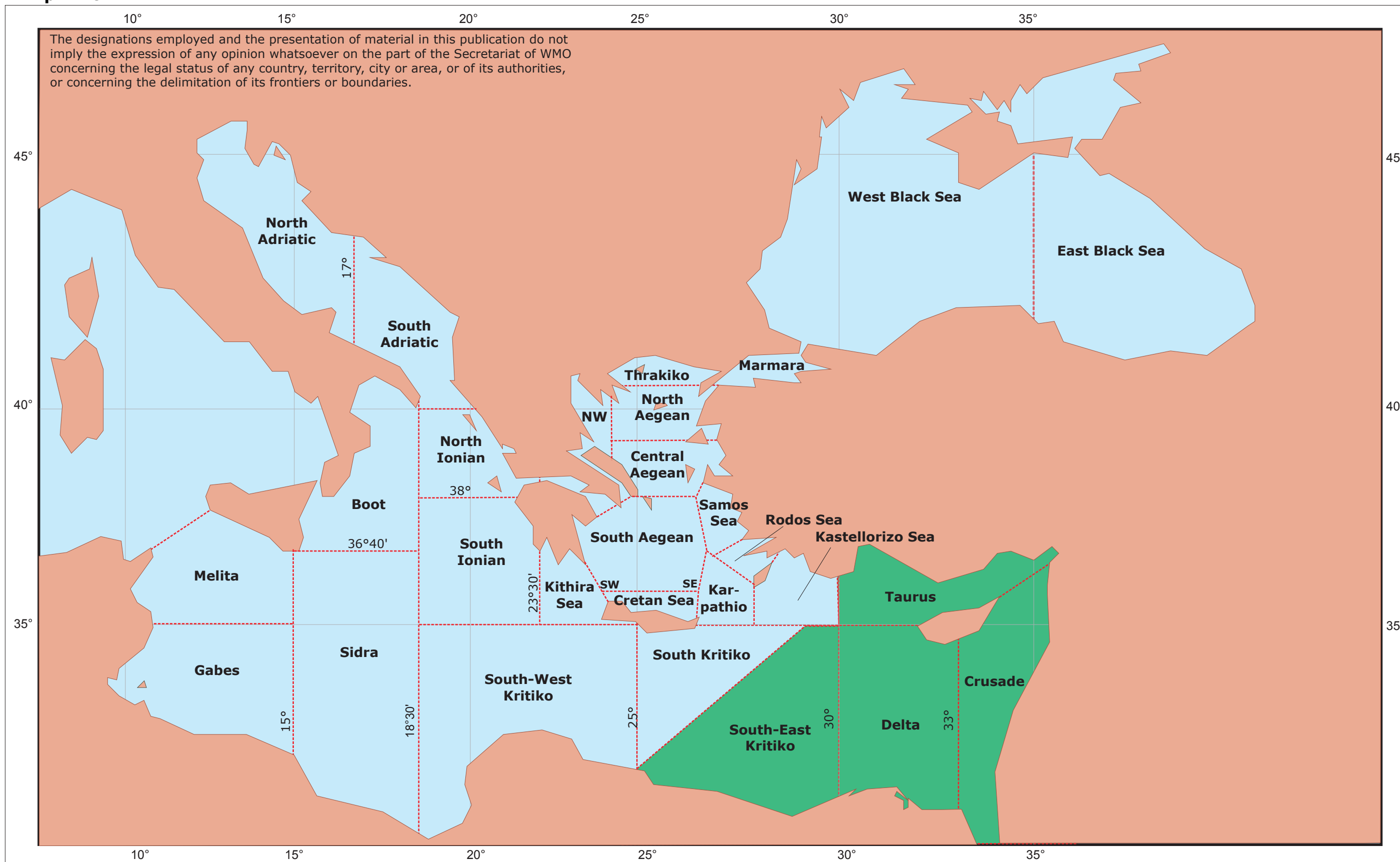
METAREA III - Sub areas

Cyprus - Chypre

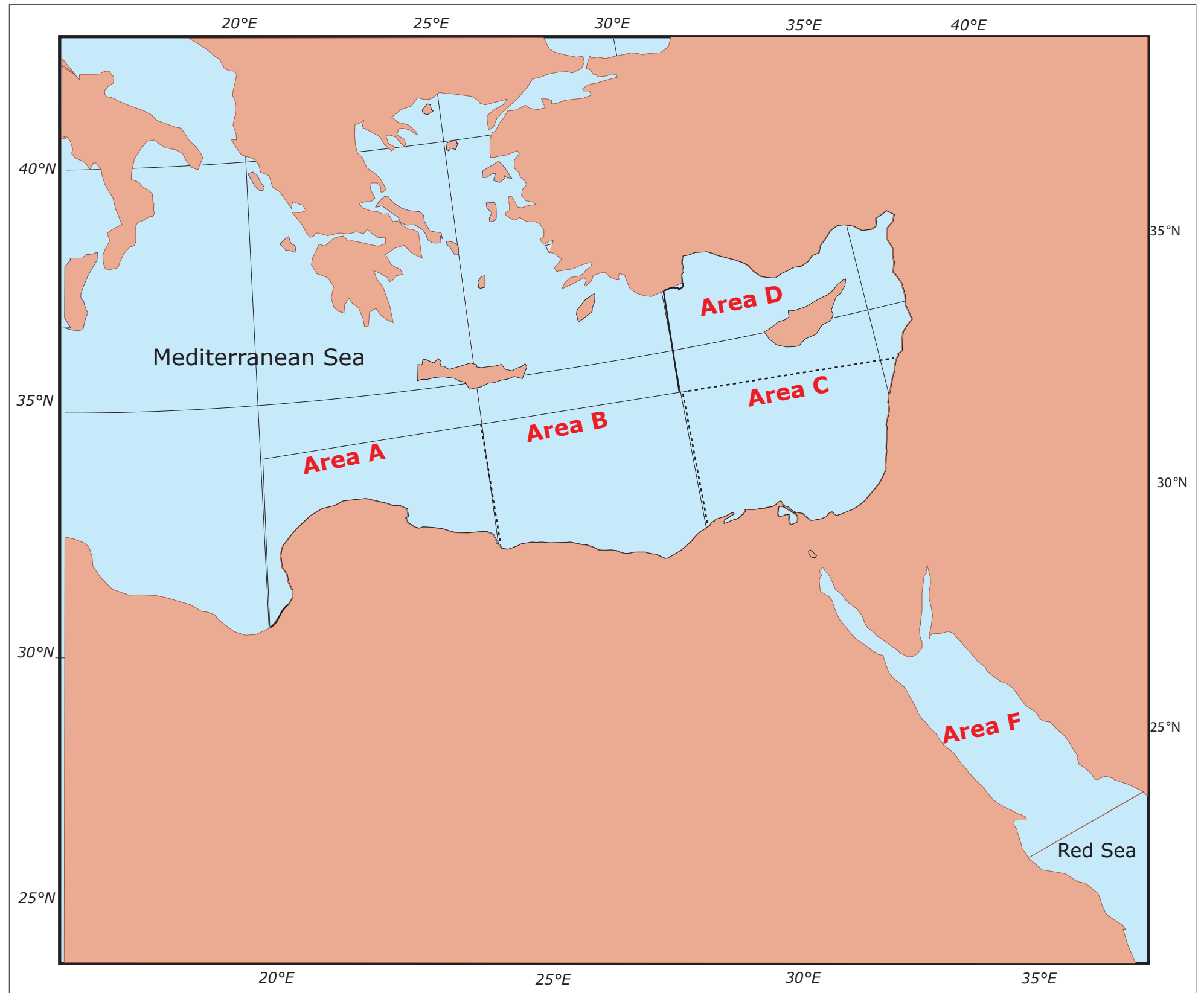
Weather Forecast Areas

NAVTEX forecast areas

12 April 2011



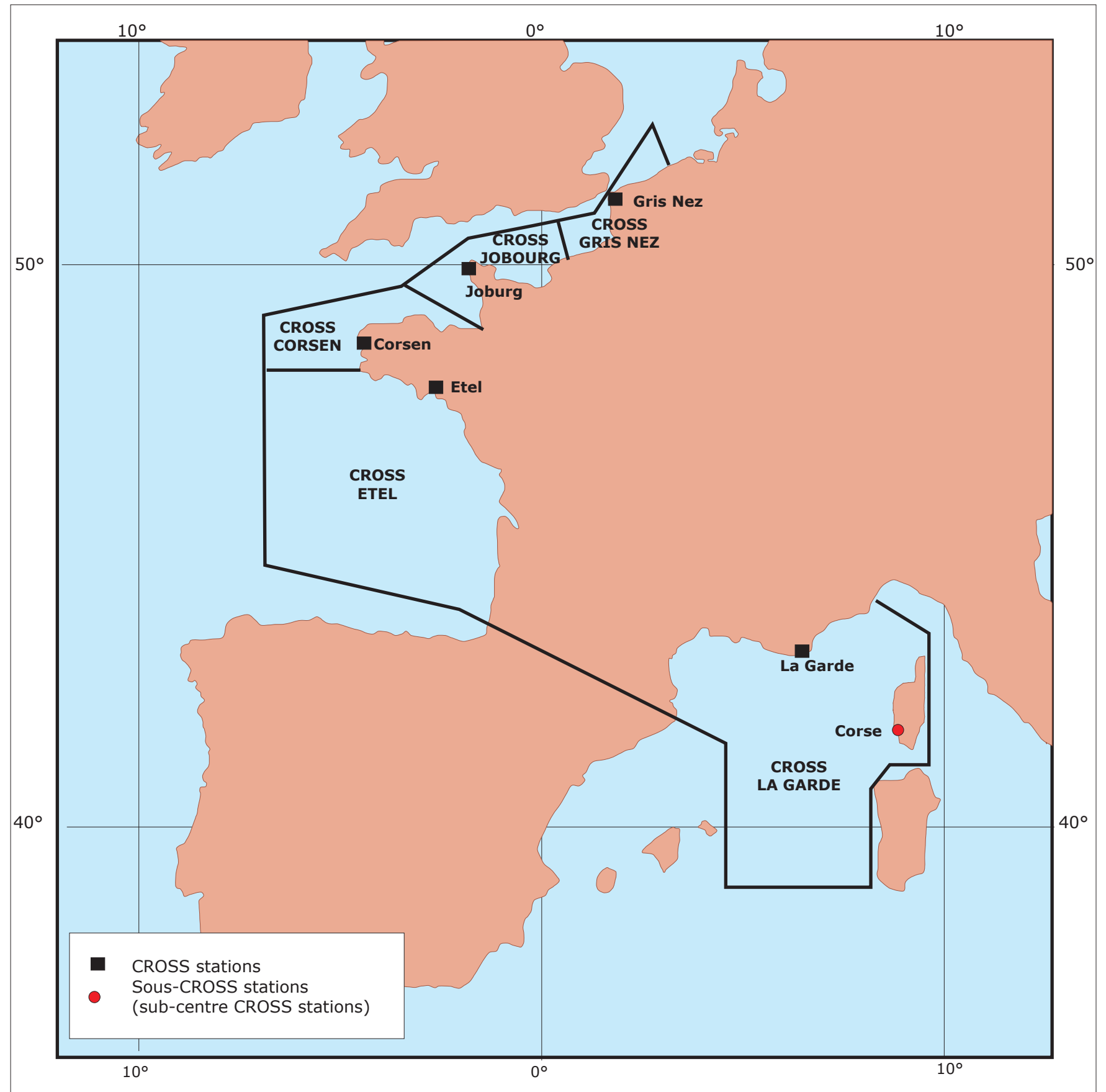
METAREA III - Sub areas
Egypt - Égypte
Coastal Forecast Areas



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METAREA III

France Areas of responsibility of Centres Régionaux Opérationnels de Surveillance et de Sauvetage (CROSS) stations



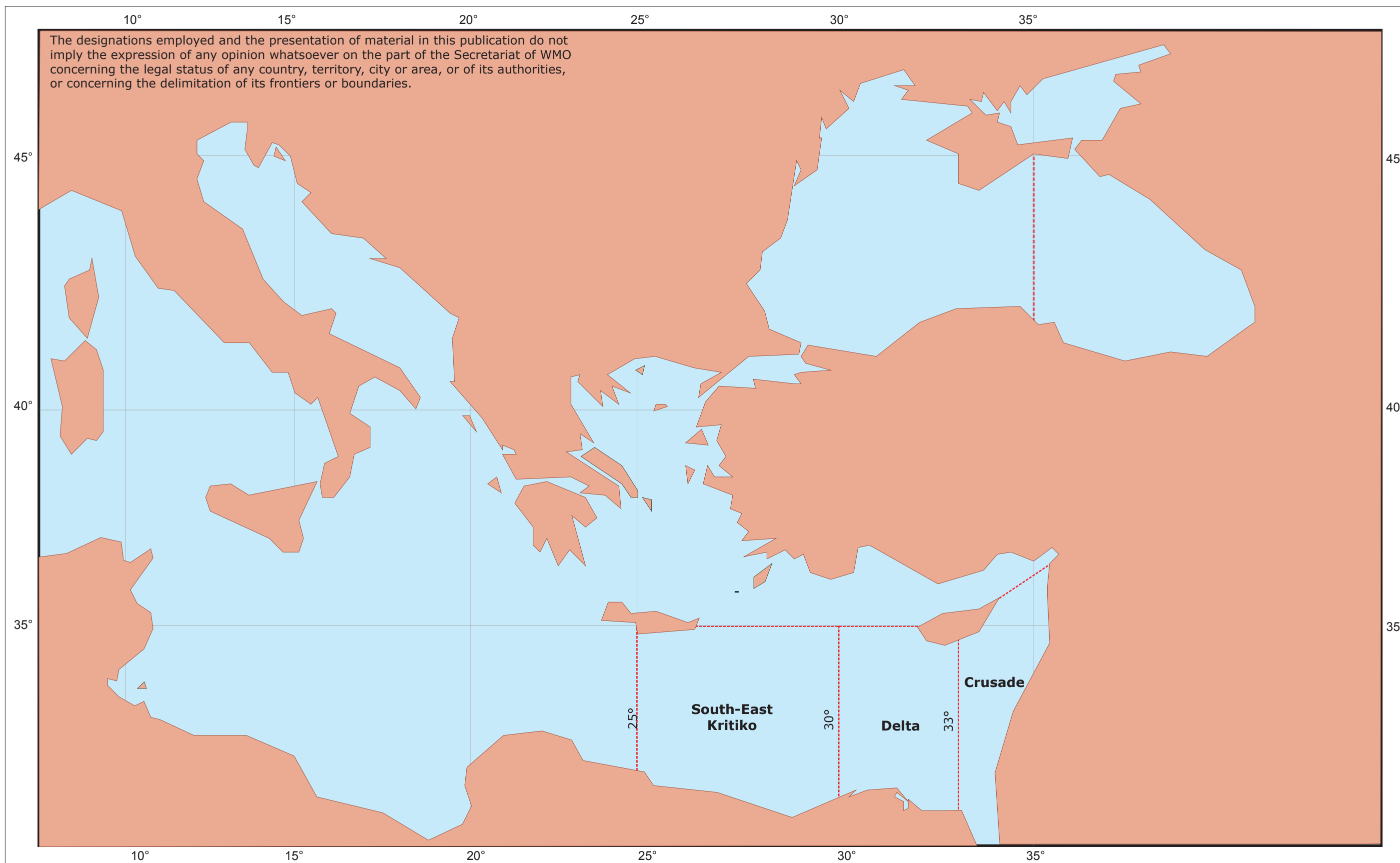
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METAREA III(E) - Sub areas

Israel

East Mediterranean Sea forecast

28 October 2015



METAREA III - Sub area Italy

SafetyNET forecast areas
3 June 2015

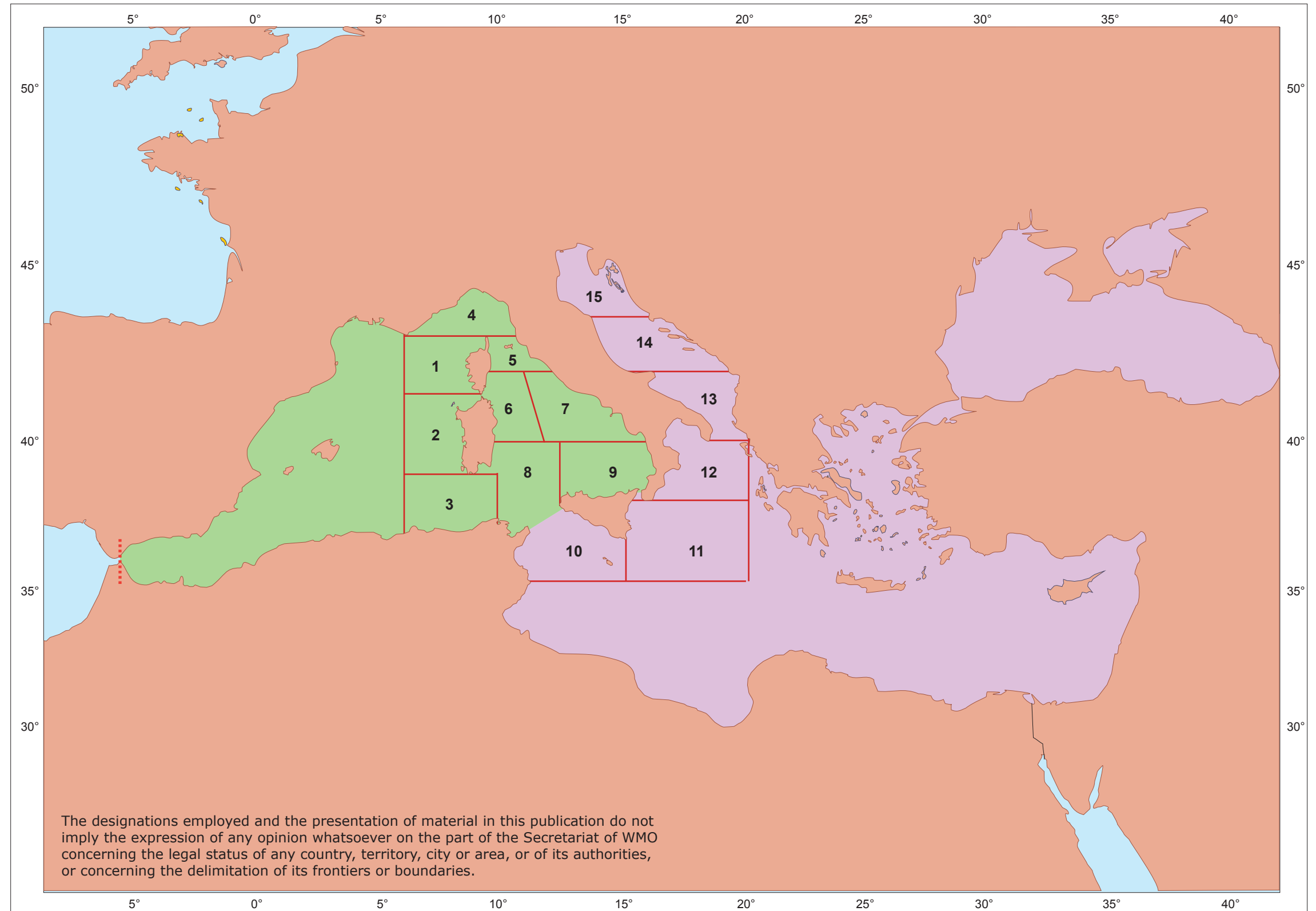
Key/Légende

Limit of METAREA III
Limit of subarea

Eastern part of Mediterranean
Western part of Mediterranean

Namelist of subareas:

- 1 Corsica Sea
- 2 Sardegna Sea
- 3 Sardegna Canal
- 4 Ligurian Sea
- 5 Northern Tyrrhenian Sea
- 6 Central Sector Tyrrhenian Sea W
- 7 Sector Tyrrhenian Sea E
- 8 Southern Sector Tyrrhenian Sea W
- 9 Southern Sector Tyrrhenian Sea E
- 10 Sicily Narrow
- 11 Southern Ionio Sea
- 12 Northern Ionio Sea
- 13 Southern Adriatic Sea
- 14 Central Adriatic Sea
- 15 Northern Adriatic Sea

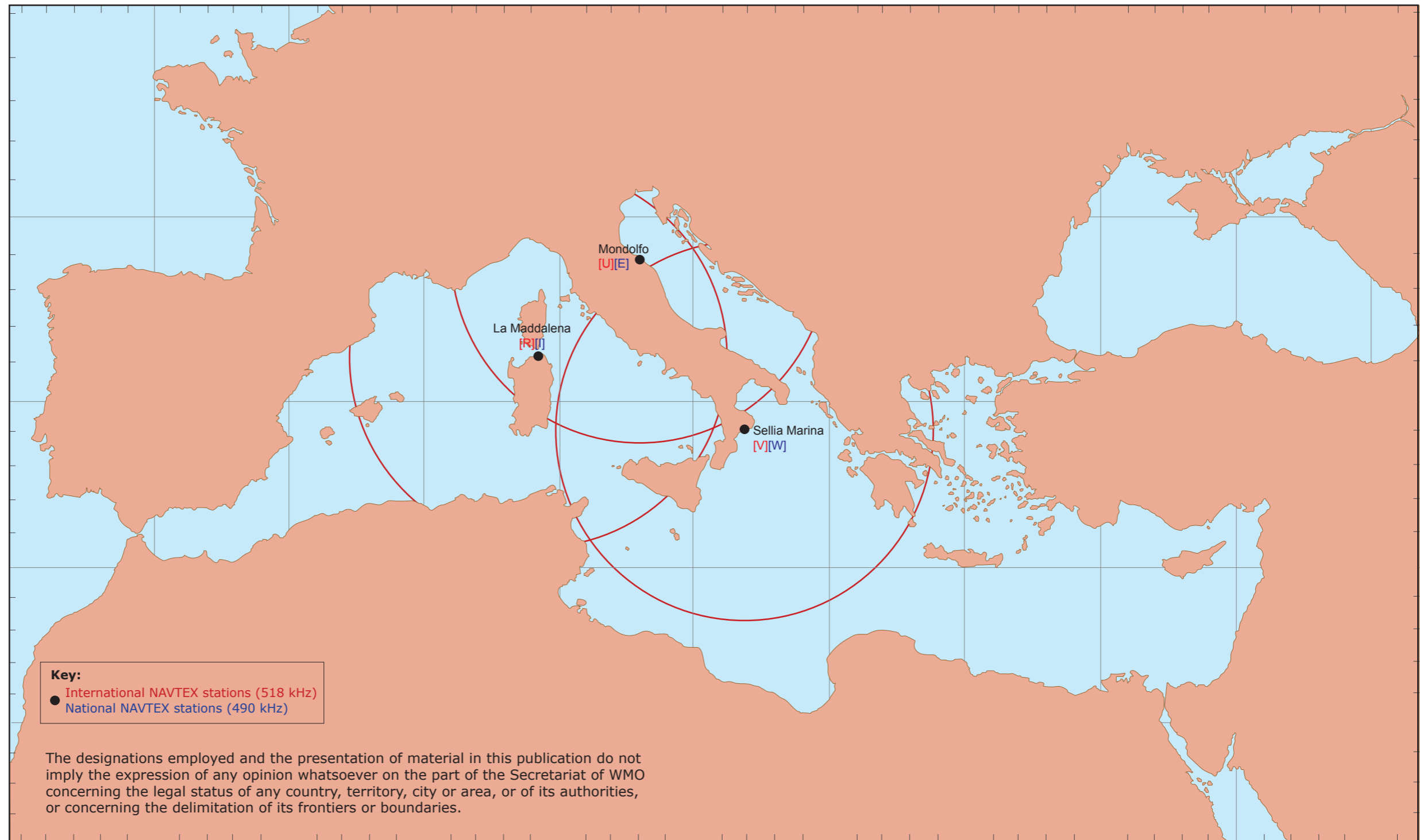


METAREA III - Sub area

Italy

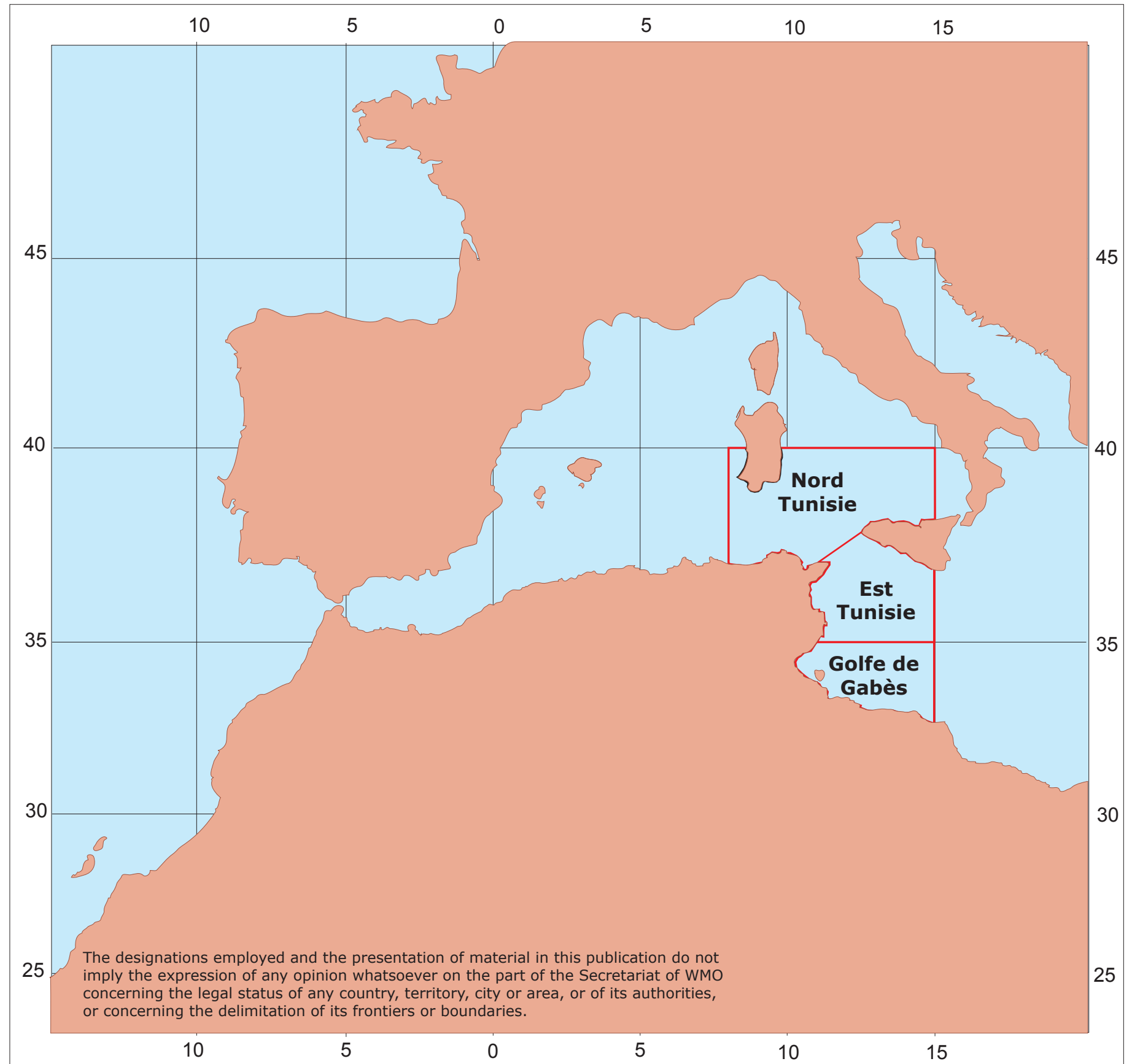
NAVTEX Stations

3 June 2015



NOTE: Augusta, Cagliari, Roma and Trieste stations no longer transmit in NAVTEX mode but only in DSC. The transmission NAVTEX mode is now provided by La Maddalena, Mondolfo and Sellia Marina.

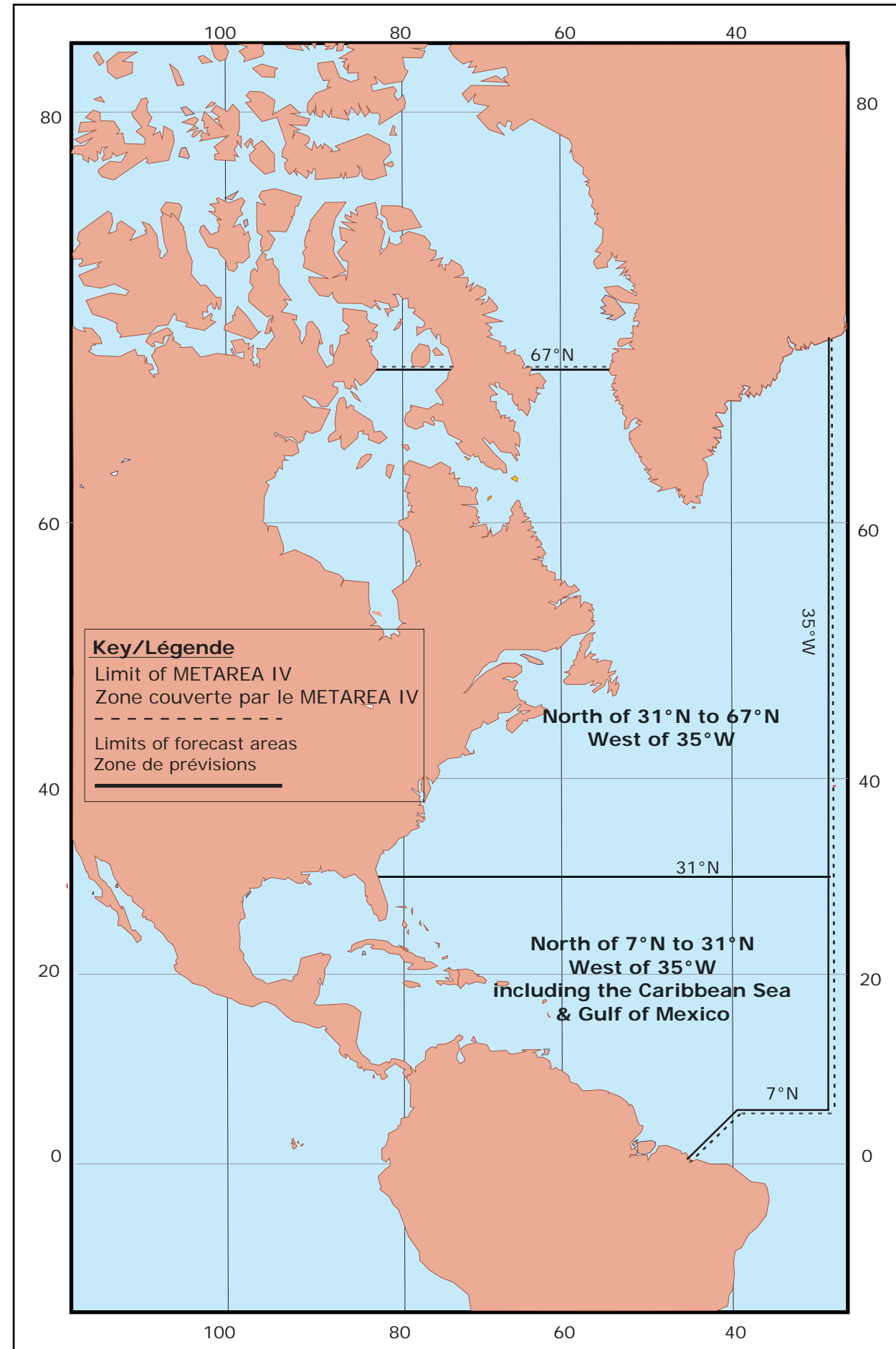
METAREA III - Sub areas
Tunisia - Tunisie
Coastal Shipping and Fishing Areas



METAREA IV - United States of America

NW ATLANTIC

SafetyNET forecast areas



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Northwestern METAREA IV - Canada

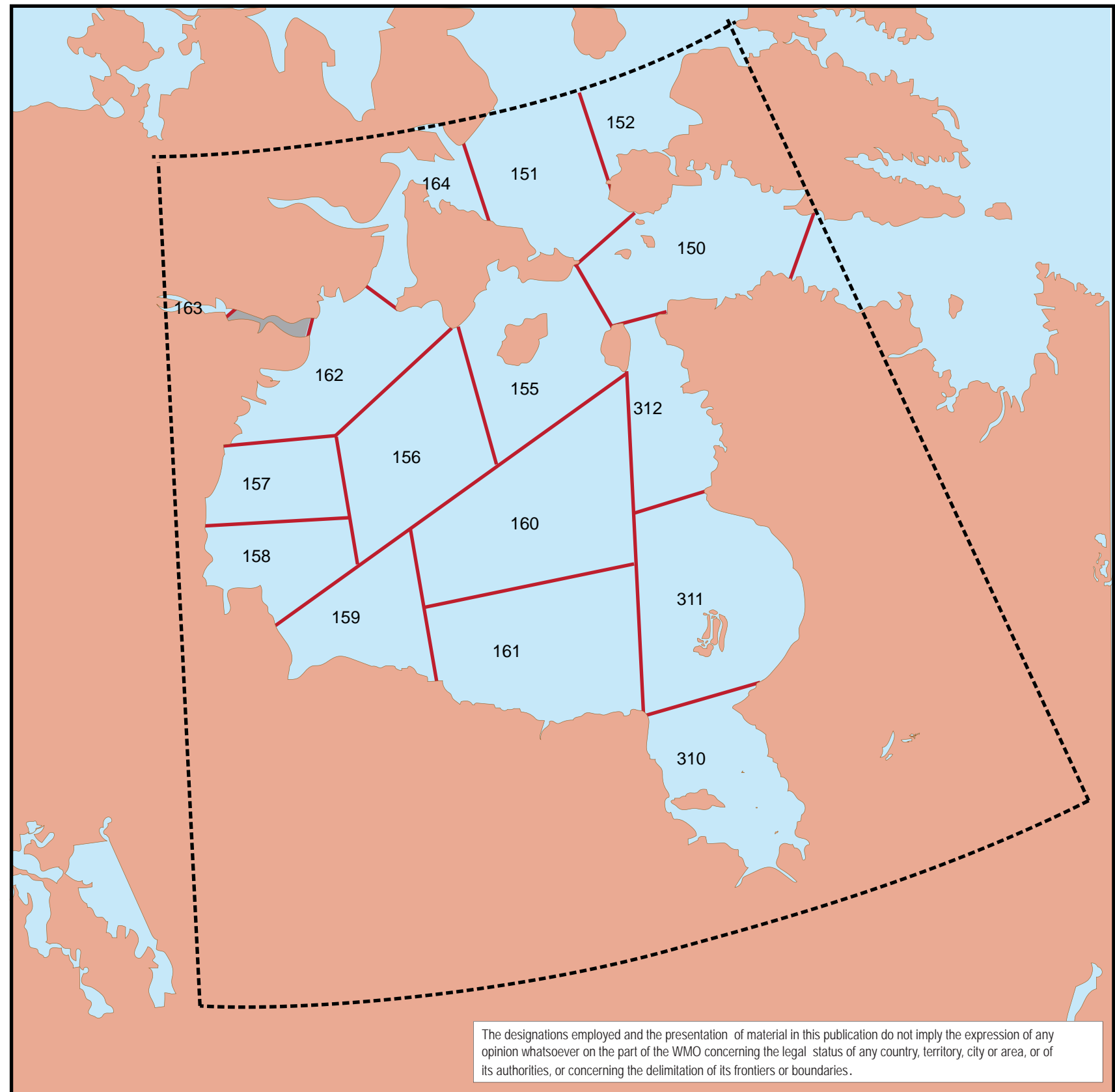
Hudson Bay and Approaches

Forecast areas

19 March 2015

Key:

Number	Area Name
150	Nottingham
151	West Foxe
152	East Foxe
155	Coats
156	Central
157	Arviat
158	Churchill
159	York
160	South-central Hudson
161	South Hudson
162	Rankin
163	Baker
164	Roes Welcome
310	James Bay
311	Belcher
312	Puvirnituq



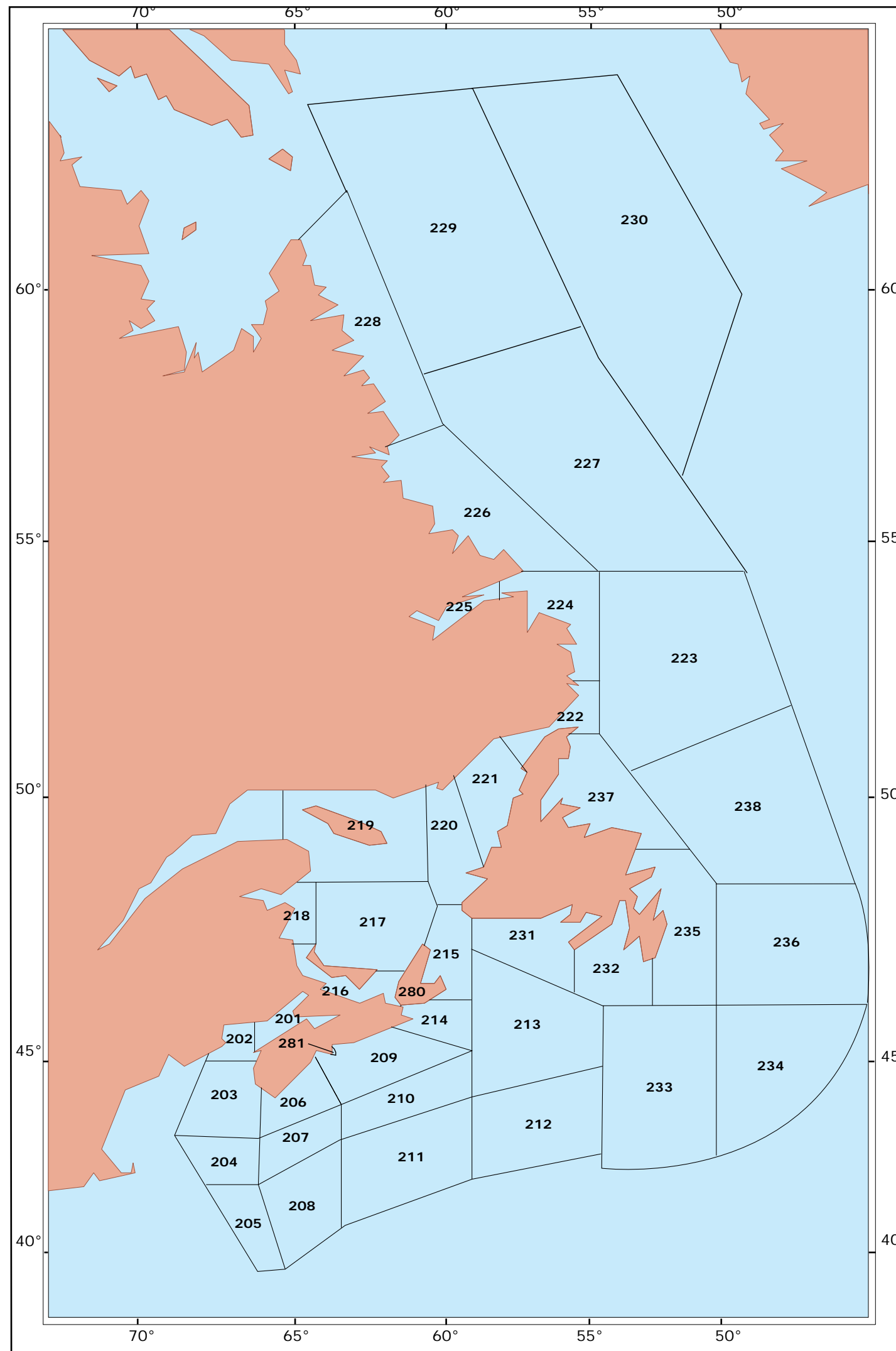
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METAREA IV - Sub areas

Canada

ATLANTIC COAST FORECAST AREAS

- 201 Fundy
- 202 Grand Manan
- 203 Lurcher
- 204 Brown's Bank
- 205 George's Bank
- 206 Southwestern Shore
- 207 LaHave Bank
- 208 West Scotian Slope
- 209 Eastern Shore
- 210 Sable
- 211 East Scotian Slope
- 212 Laurentian Fan
- 213 Banquereau
- 214 Laurentian Fan
- 215 Cabot Strait
- 216 Northumberland Strait
- 217 Gulf-Magdalen
- 218 Chaleur-Miscou
- 219 Anticosti
- 220 Gulf Port au Port
- 221 Northeast Gulf
- 222 Belle Isle
- 223 Belle Isle Bank
- 224 South Labrador Coast
- 225 Lake Melville
- 226 Mid Labrador Coast
- 227 South Labrador Sea
- 228 North Labrador Coast
- 229 Northwest Labrador Sea
- 230 East Labrador Sea
- 231 Southwest Coast
- 232 South Coast
- 233 Southwestern Grand Banks
- 234 Southeastern Grand Banks
- 235 East Coast
- 236 Northern Grand Banks
- 237 Northeast Coast
- 238 Funk Island Bank
- 280 Bras d'Or Lakes
- 281 Halifax Harbour & Appr.



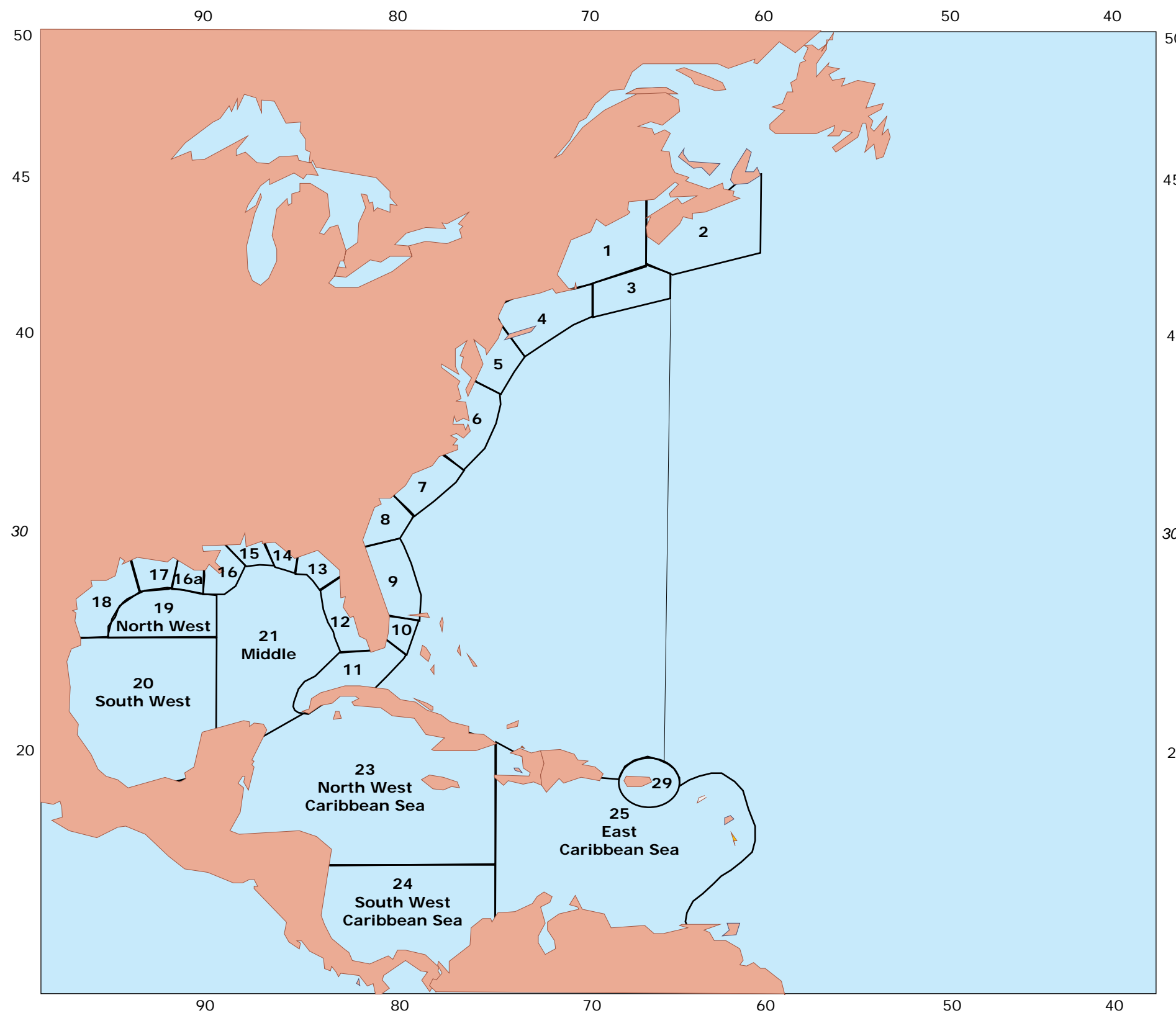
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METAREA IV

UNITED STATES OF AMERICA
ETATS-UNIS D'AMERIQUE

Atlantic and Gulf Coast Forecast Areas

- 1 Gulf of Maine
- 2 South of Nova Scotia
- 3 Georgeís Bank
- 4 South of New England
- 5 Hudson Canyon to Baltimore Canyon
- 6 Baltimore Canyon to Hatteras Canyon
- 7 Hatteras Canyon to Blake Ridge
- 8 Savannah to S. Augustine
- 9 S. Augustine to Jupiter Inlet
- 10 Jupiter Inlet to Key Largo
- 11 Key Largo to Dry Tortugas
- 12 Cape Sable to Tarpon Springs
- 13 Tarpon Springs to Apalachicola
- 14 Apalachicola to Pensacola
- 15 Pensacola to Gulfport
- 16 Mississippi River to Intracoastal City
- 16a Intracoastal City to Port Arthur
- 17 Port Arthur to Port OíConnor
- 18 Port OíConnor to Brownsville
- 20 Puerto Rico and (US) Virgin Islands

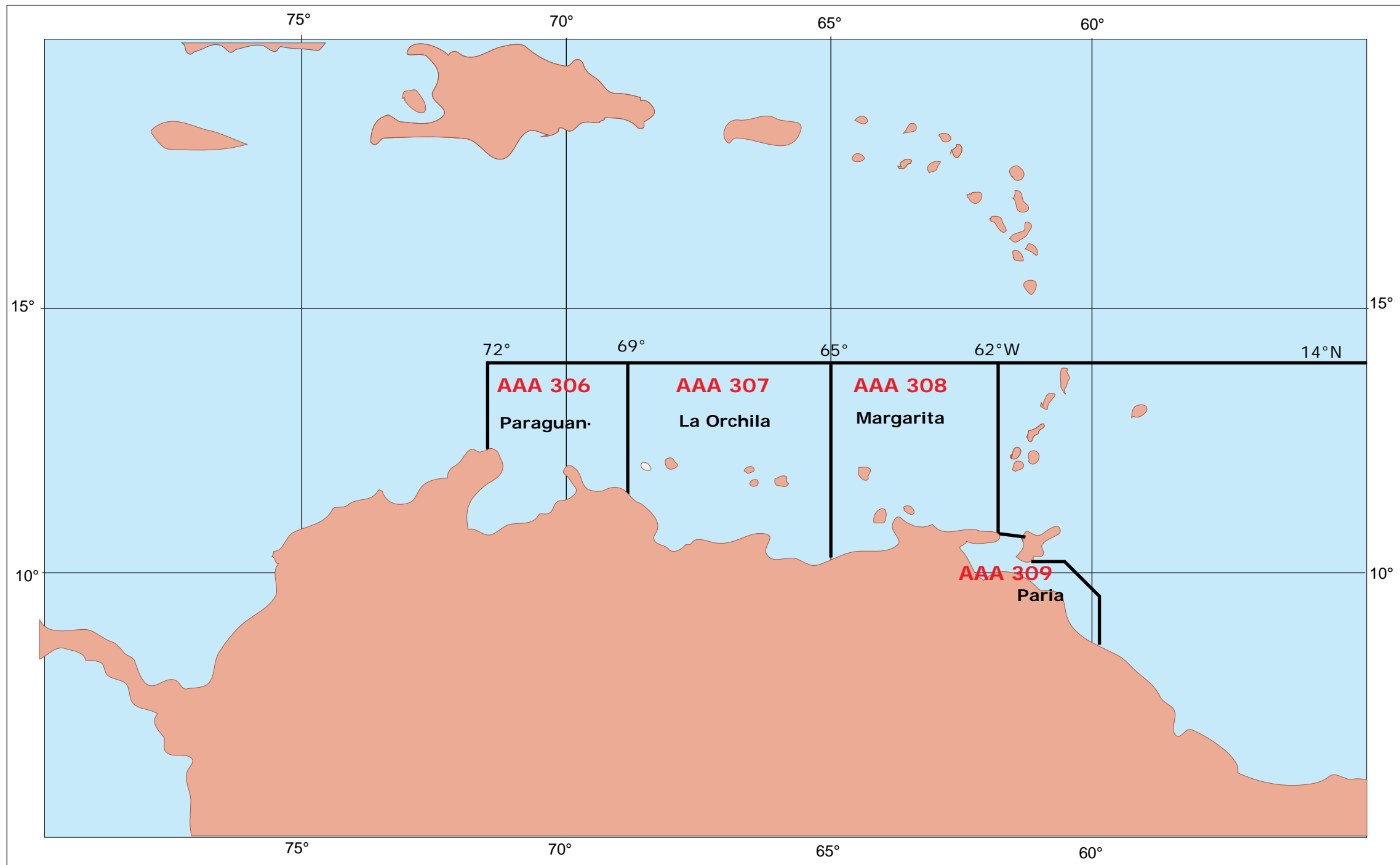


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METAREA IV

VENEZUELA

Forecast Areas



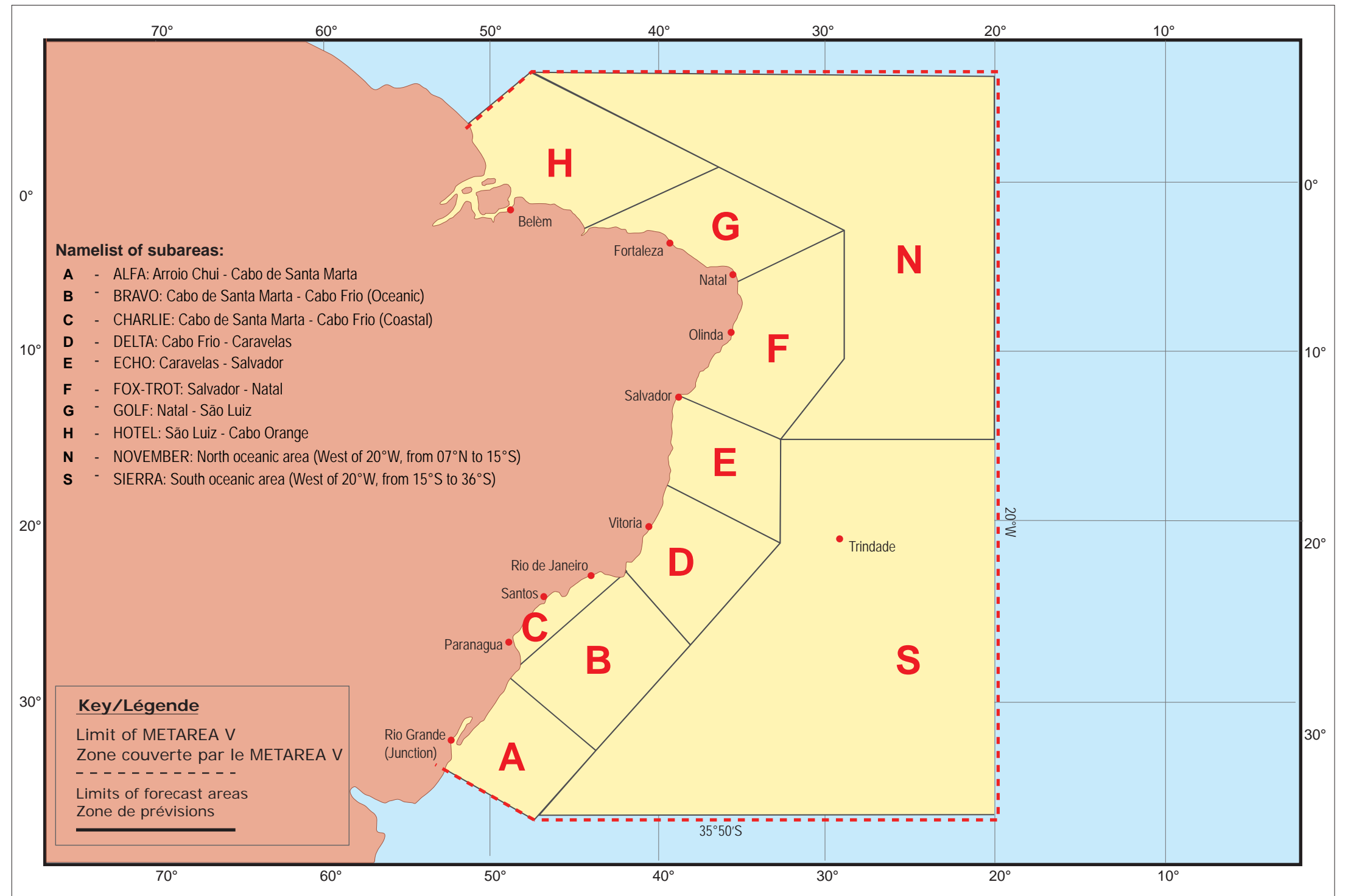
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METAREA V

Brazil

SafetyNET forecast areas

29 January 2015

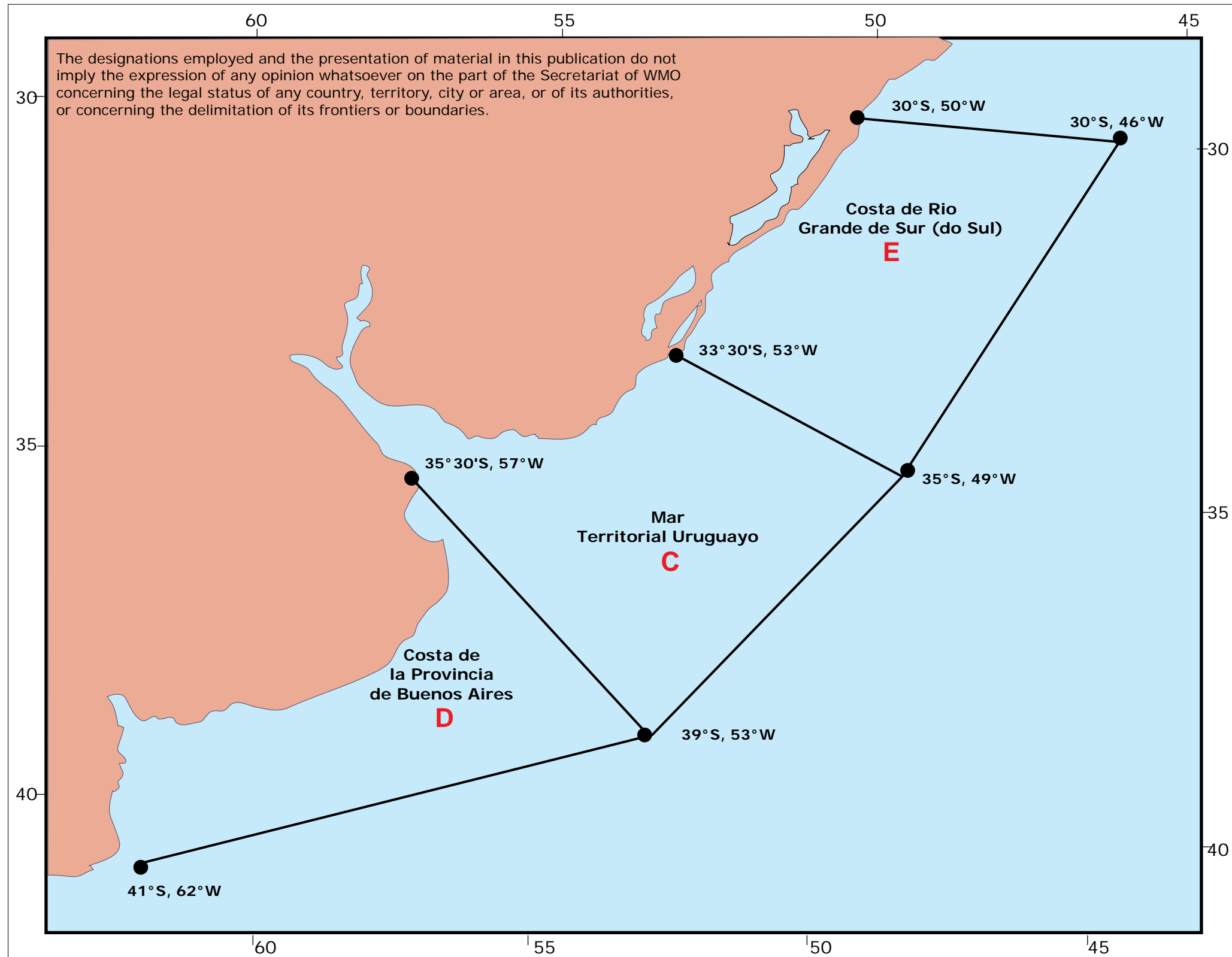


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METAREA V - Sub areas

URUGUAY

Weather Forecast Areas



METAREA VI

Argentina - Argentine

SafetyNET forecast areas
29 January 2015

▲ NAVTEX station

Limit of METAREA VI:

NORTH AREA: From 35°S to 40°S and between 20°W and 55°W
 CENTRAL EAST AREA: From 40°S to 50°S and between 20°W and 40°W
 CENTRAL WEST AREA: From 40°S to 50°S and between 40°W and 60°W
 SOUTH EAST AREA: From 50°S to 60°S and between 20°W and 40°W
 SOUTH WEST AREA: From 50°S to 60°S and between 40°W and 60°W
 DRAKE AREA: From 55°S to 60°S and between 60°W and 67°W

Coastal Areas:

The Atlantic ocean between 36°17'23"S and 55°00'00"S.
 Coastal area extends 300 nautical miles offshore.

RIO DE LA PLATA COAST:

Interior Coast:

From the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay - 34°58'062"S, 54°57'032"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina coast - 36°17'23"S, 56°47'03"W), and the area of the Atlantic Ocean between the two geographical points and 300 nautical miles out to sea.

Exterior Coast:

- A - Mar del Plata: From 36°17'S to 38°30'S
- B - Bahía Blanca: From 38°30'S to 41°S
- C - Peninsula de Valdes: From 41°S to 45°S
- D - Golfo San Jorge: From 45°S to 48°S
- E - Patagonia Sur: From 48°S to 54°S
- F - Fin del Mundo: From 54°S to 55°S
- G - Zona Malvinas

High Seas Forecast - South of 60°S:

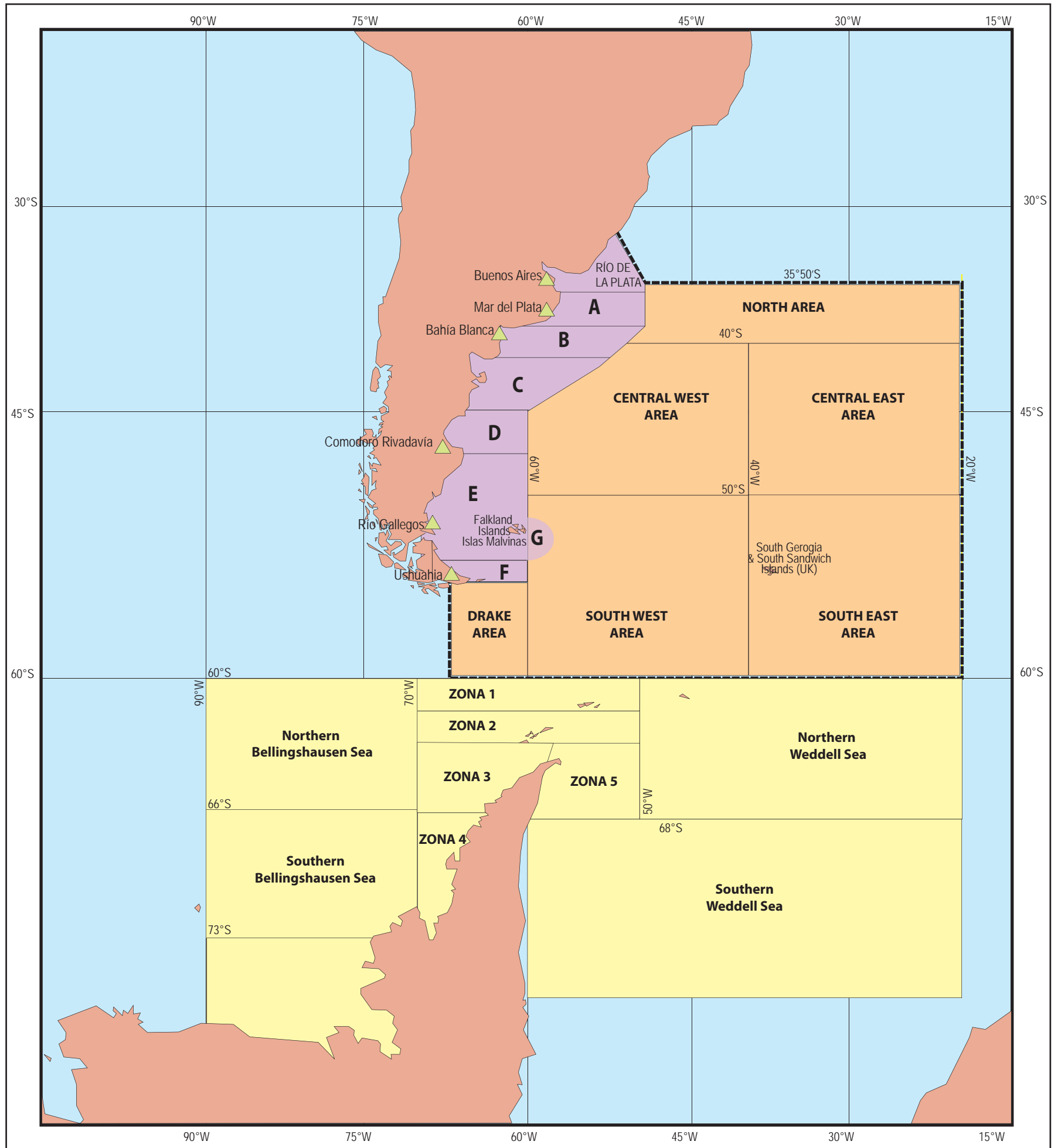
Oceanic Areas:

Northern Bellingshausen Sea
 60°S-66°S and 70°W-90°W
 Southern Bellingshausen Sea:
 66°S-73°S and 70°W-90°W
 Northern Weddell Sea:
 60°S-68°S and 20°W-50°W
 Southern Weddell:
 68°W-78°S and 20°W-60°W

Coastal Areas:

- Zona 1: Drake South (south of 60°S)
- Zona 2: Mar de la Flota
- Zona 3: Gerlache Strait
- Zona 4: Margarita Bay
- Zona 5: Erebus and Terror Gulf

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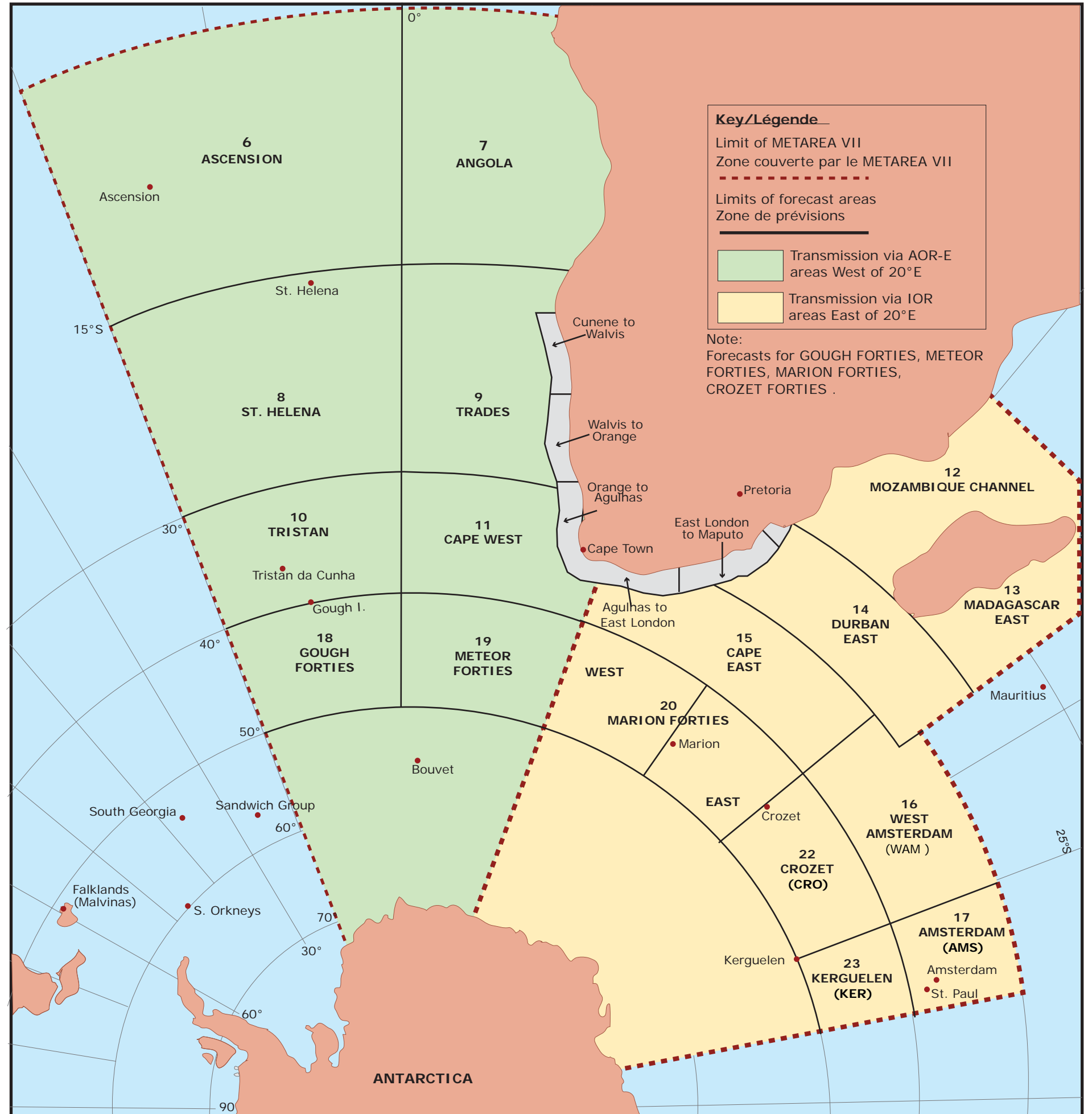


METAREA VII

South Africa - Afrique du Sud

SafetyNET forecast areas

29 January 2015



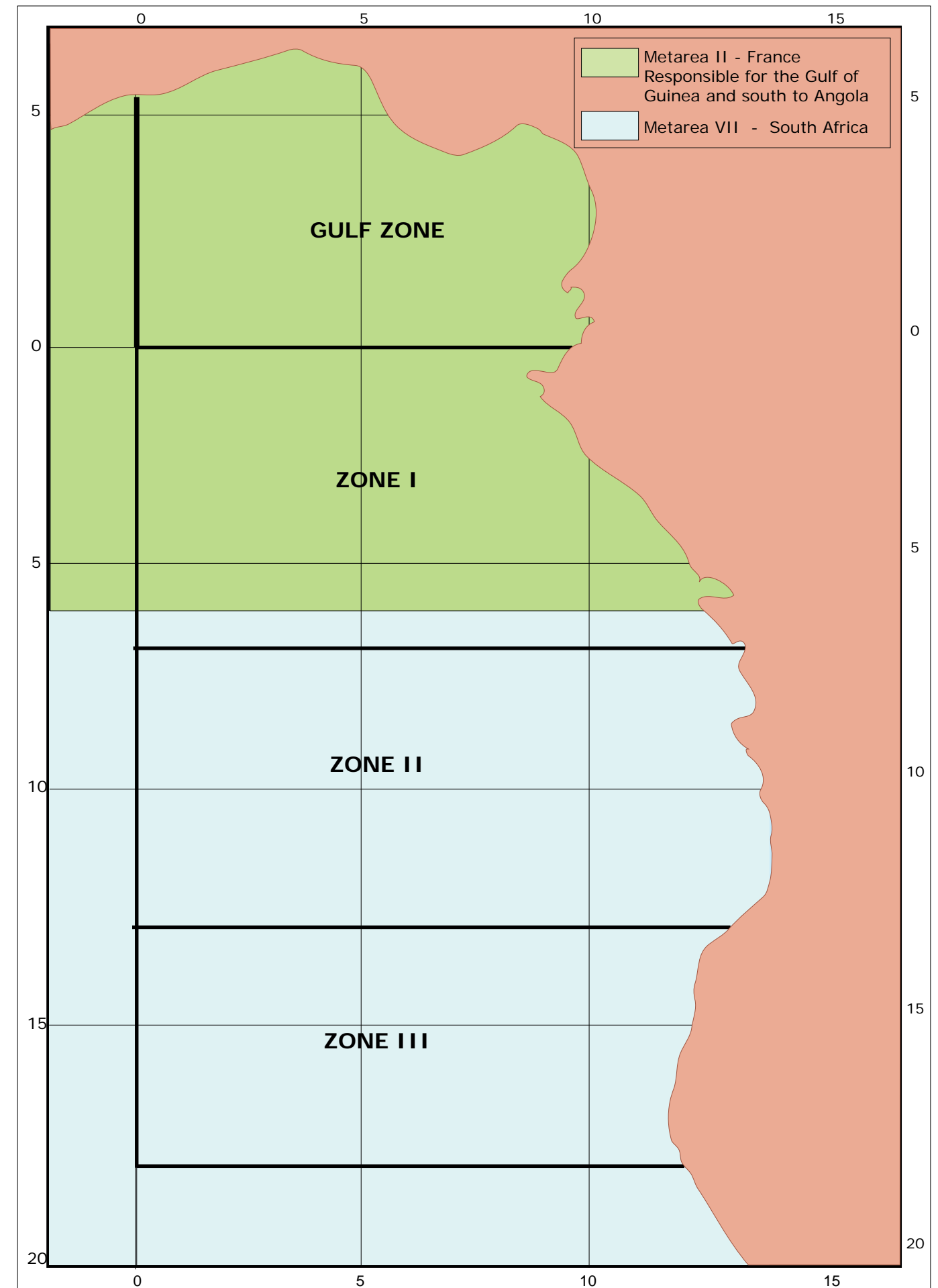
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METAREA VII - Western boundary

South Africa - Afrique du Sud

SafetyNET forecast areas

29 January 2015



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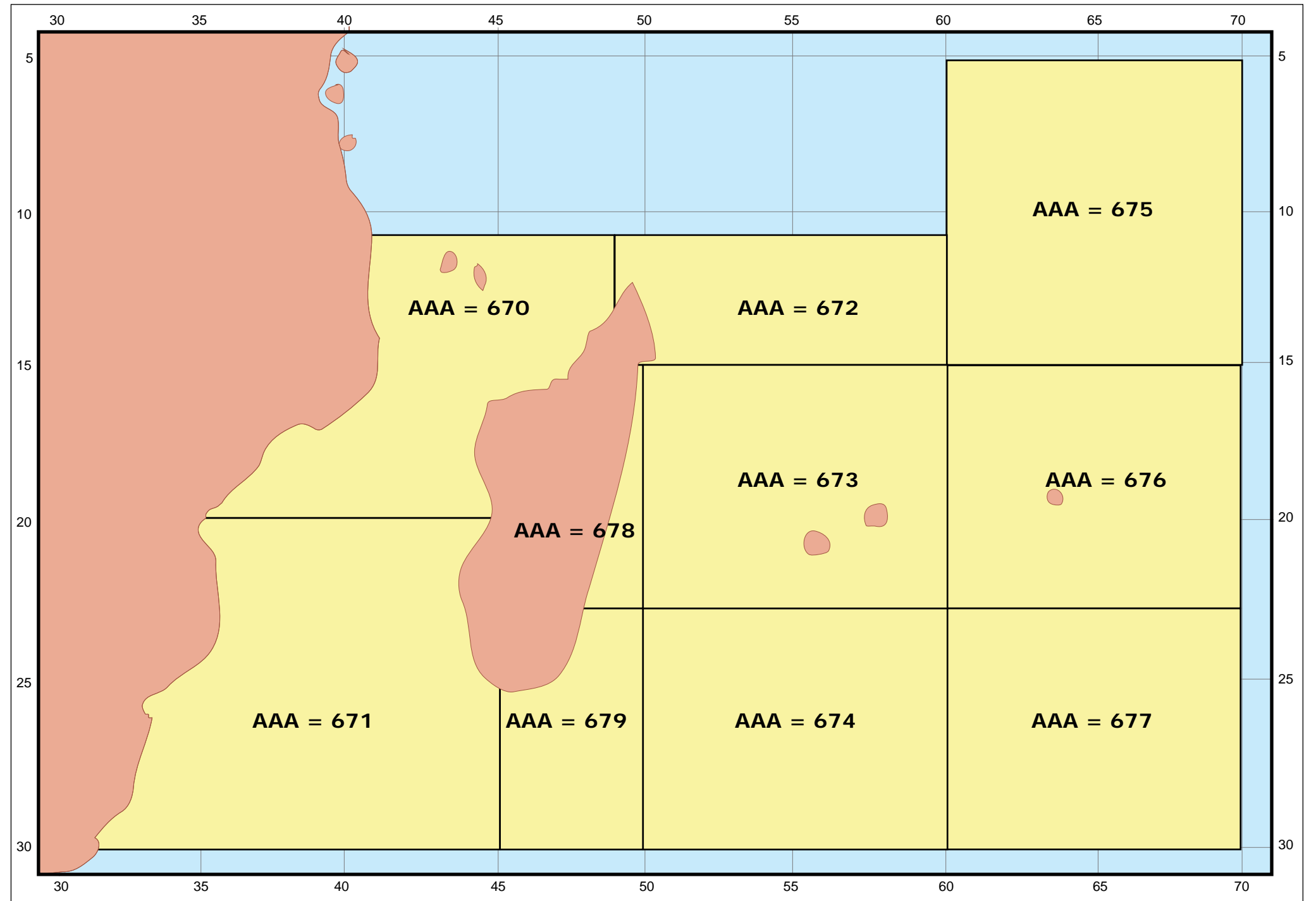
METAREA VII - Eastern boundary

South Africa - Afrique du Sud

SafetyNET forecast areas

29 January 2015

From 30°S 50°E, forecasts, as well as tropical cyclone warnings are issued by La Réunion



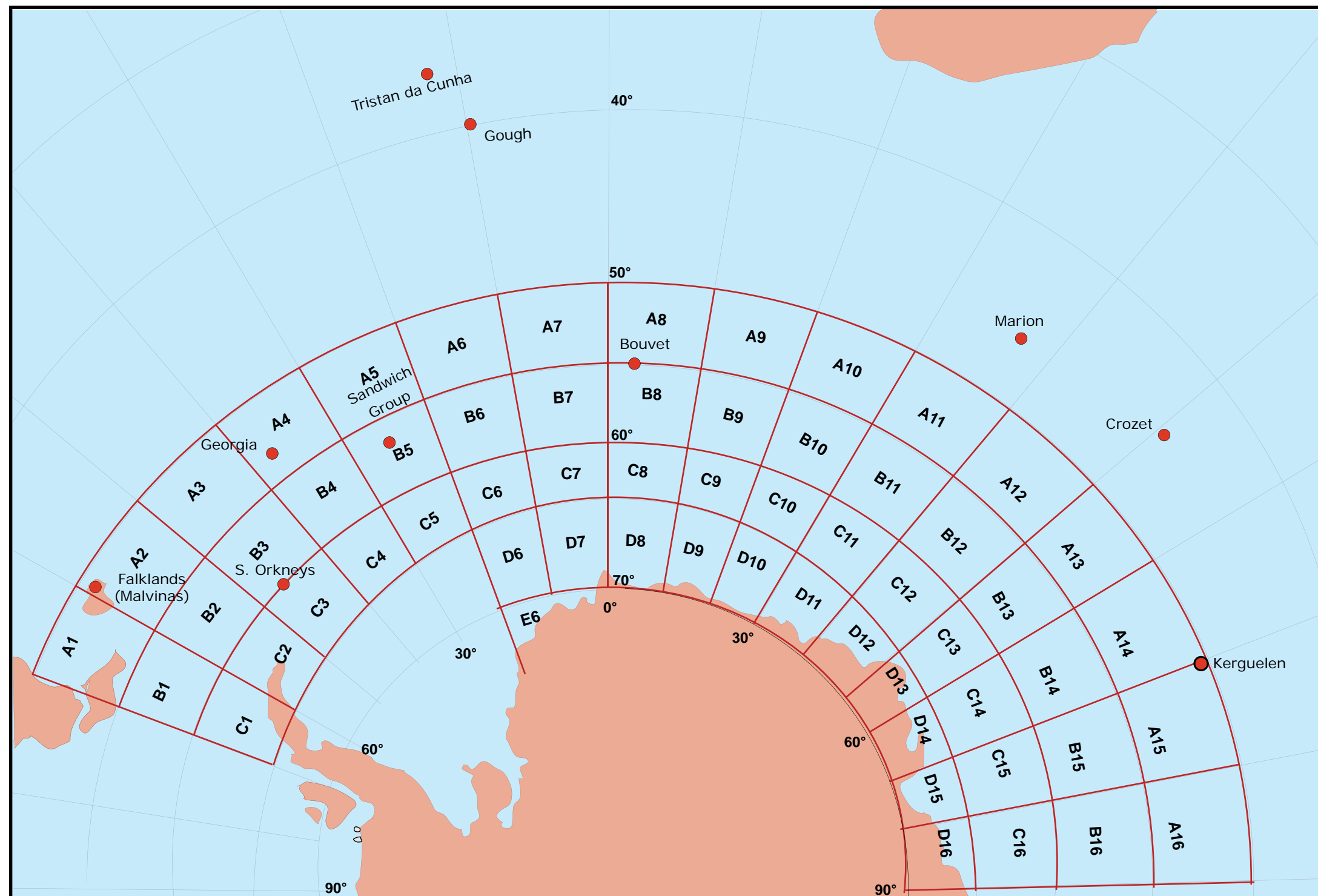
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METAREA VII - Southern boundary South Africa - Afrique du Sud

SafetyNET forecast areas

Antarctic

South of 50°S from 20°W, forecasts are issued on request only.




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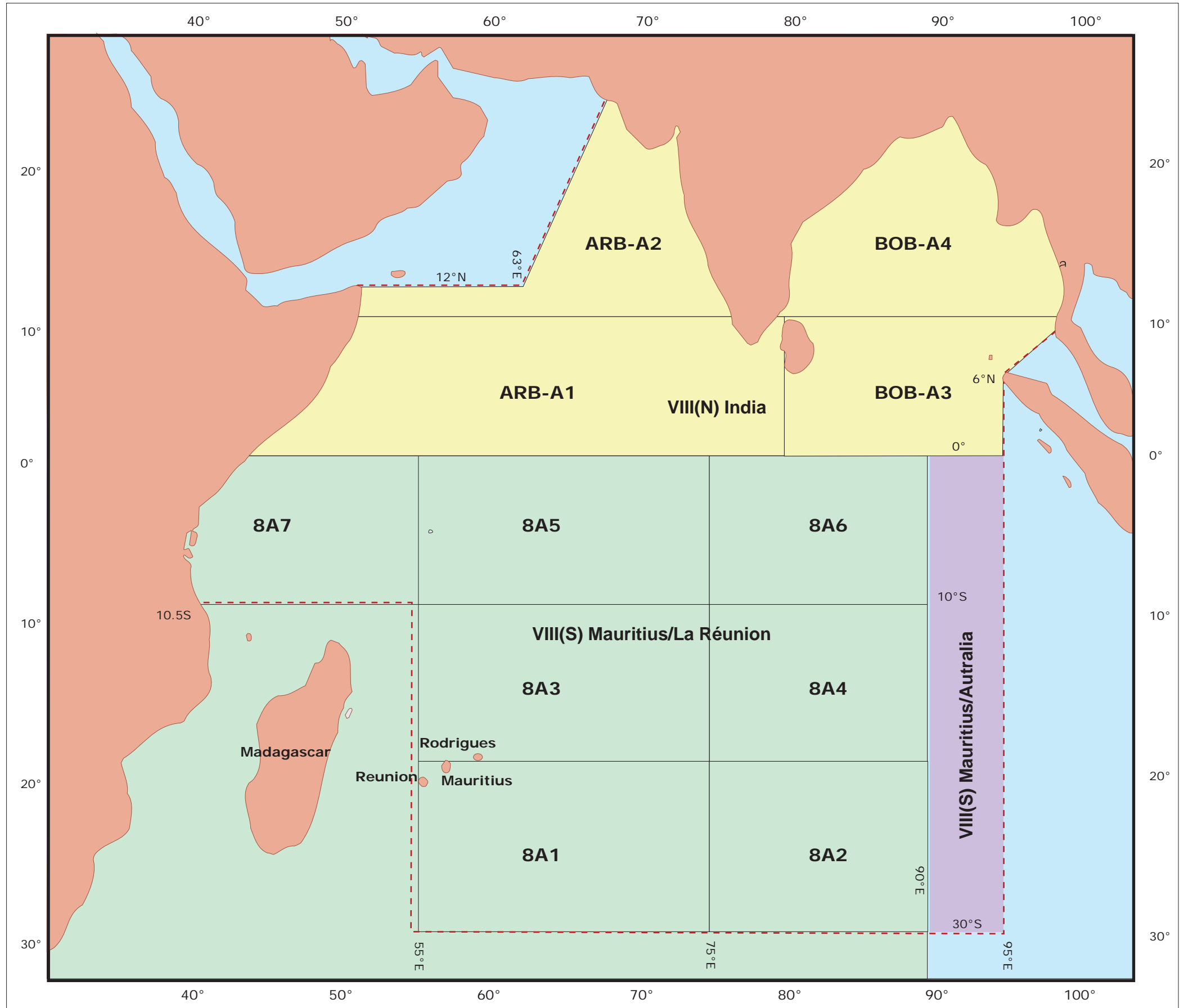
METAREA VIII
VIII(N) - India - Inde
VIII(S) - Mauritius - Maurice
 SafetyNET forecast areas
 02 February 2015

Key/Légende

Limit of METAREA VIII
 Zone couverte par le METAREA VIII

Limits of forecast areas
 Zone de prévisions

 Cyclone warning area
 (prepared by Réunion)



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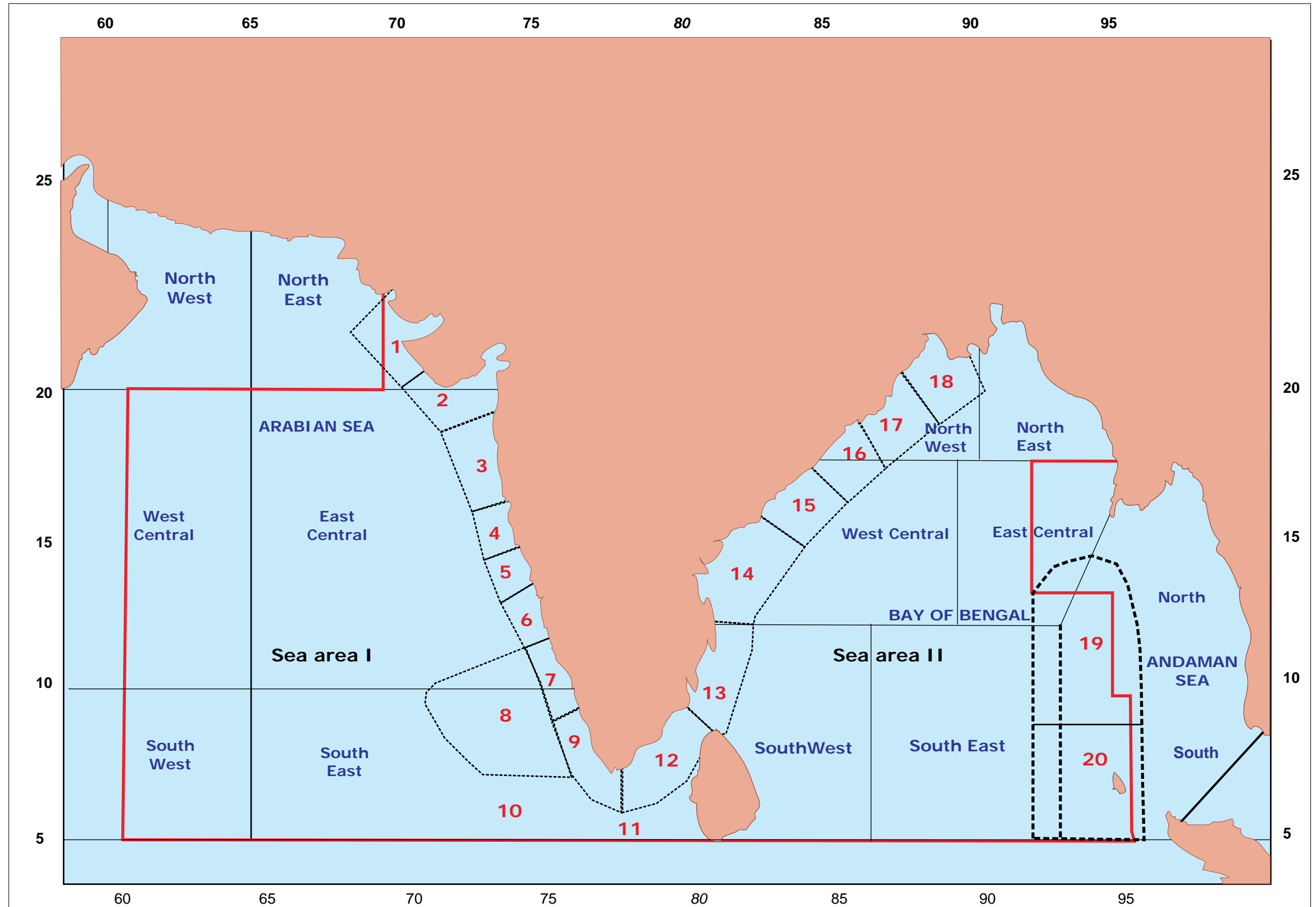
METAREA VIII - Sub areas

India -Inde

Forecast Areas

KEY:

- 1 North Gujarat
- 2 South Gujarat
- 3 North Maharashtra
- 4 South Maharashtra
- 5 Goa
- 6 Karnataka
- 7 North Kerala
- 8 Lakshadweep
- 9 South Kerala
- 10 Maldive
- 11 Comorin
- 12 South Tamilnadu
- 13 NorthTamilnadu
- 14 South Andhra
- 15 North Andhra
- 16 South Orissa
- 17 North Orissa
- 18 West Bengal
- 19 Andaman Is.
- 20 Nicobar Is.

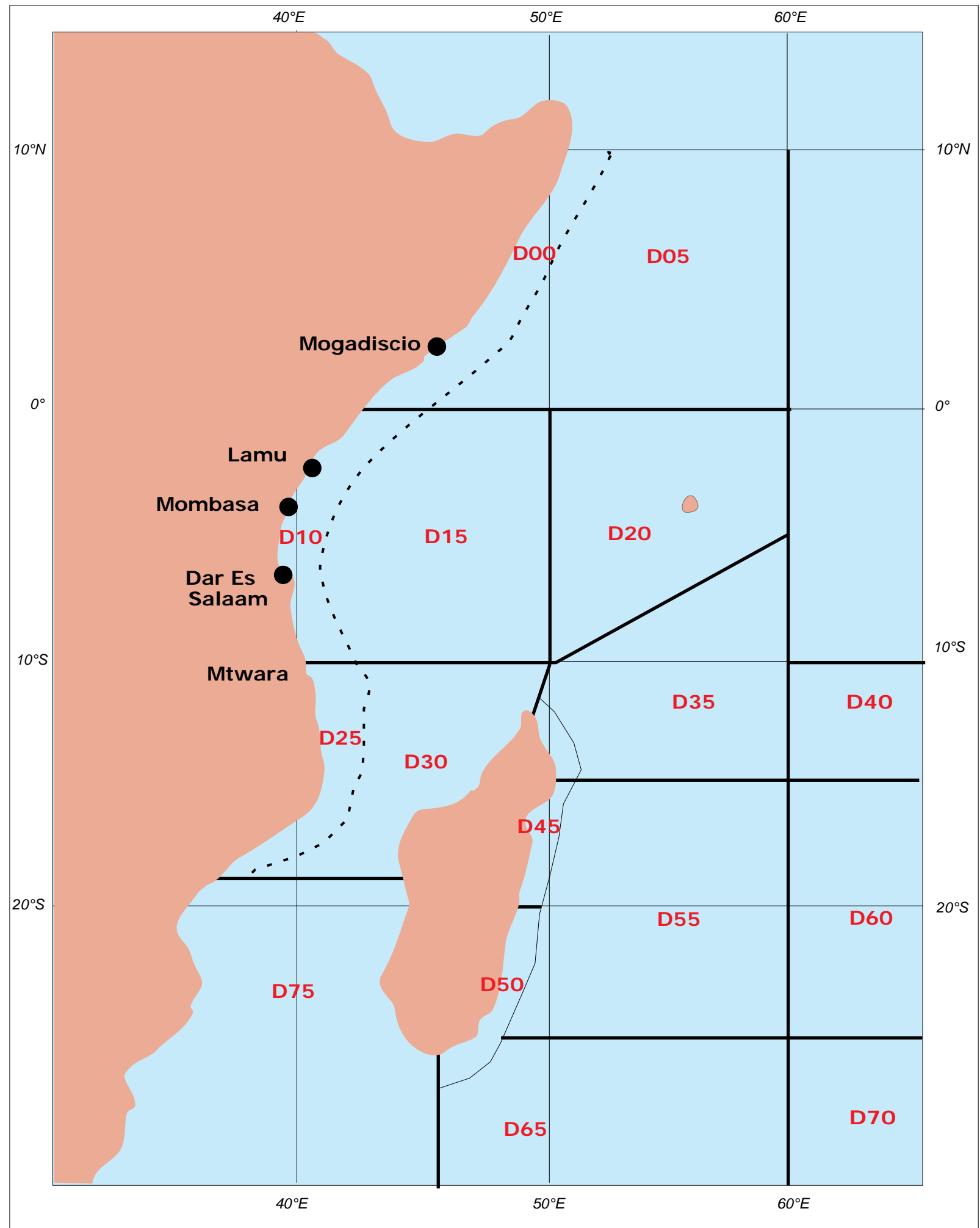


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METAREA VIII - Sub areas

Kenya

Weather Forecast Areas



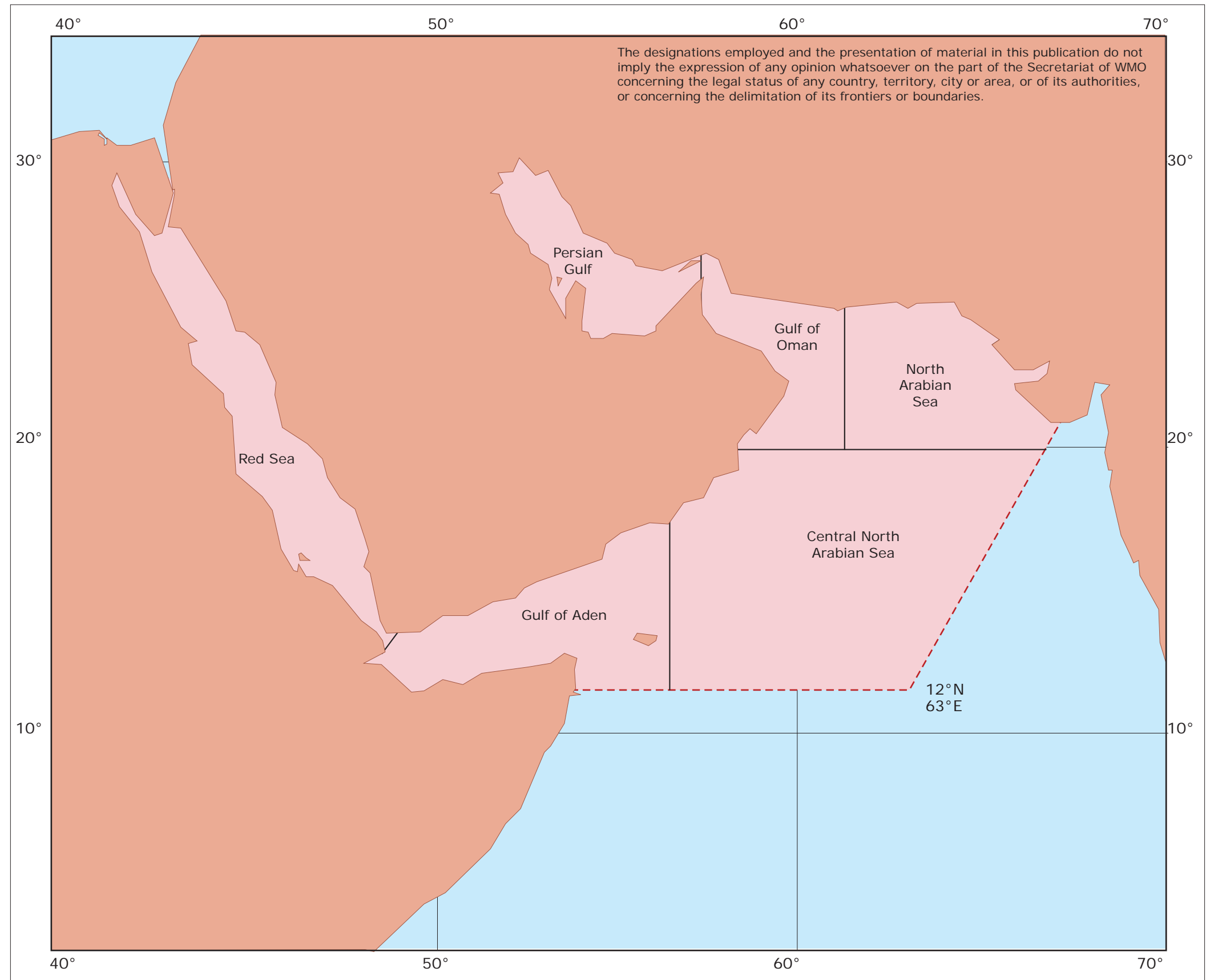
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METAREA IX

Issuing Service: Pakistan

Forecast Areas: The Red Sea, Gulf of Aden, Arabian Sea and Persian Gulf, north of Area VIII

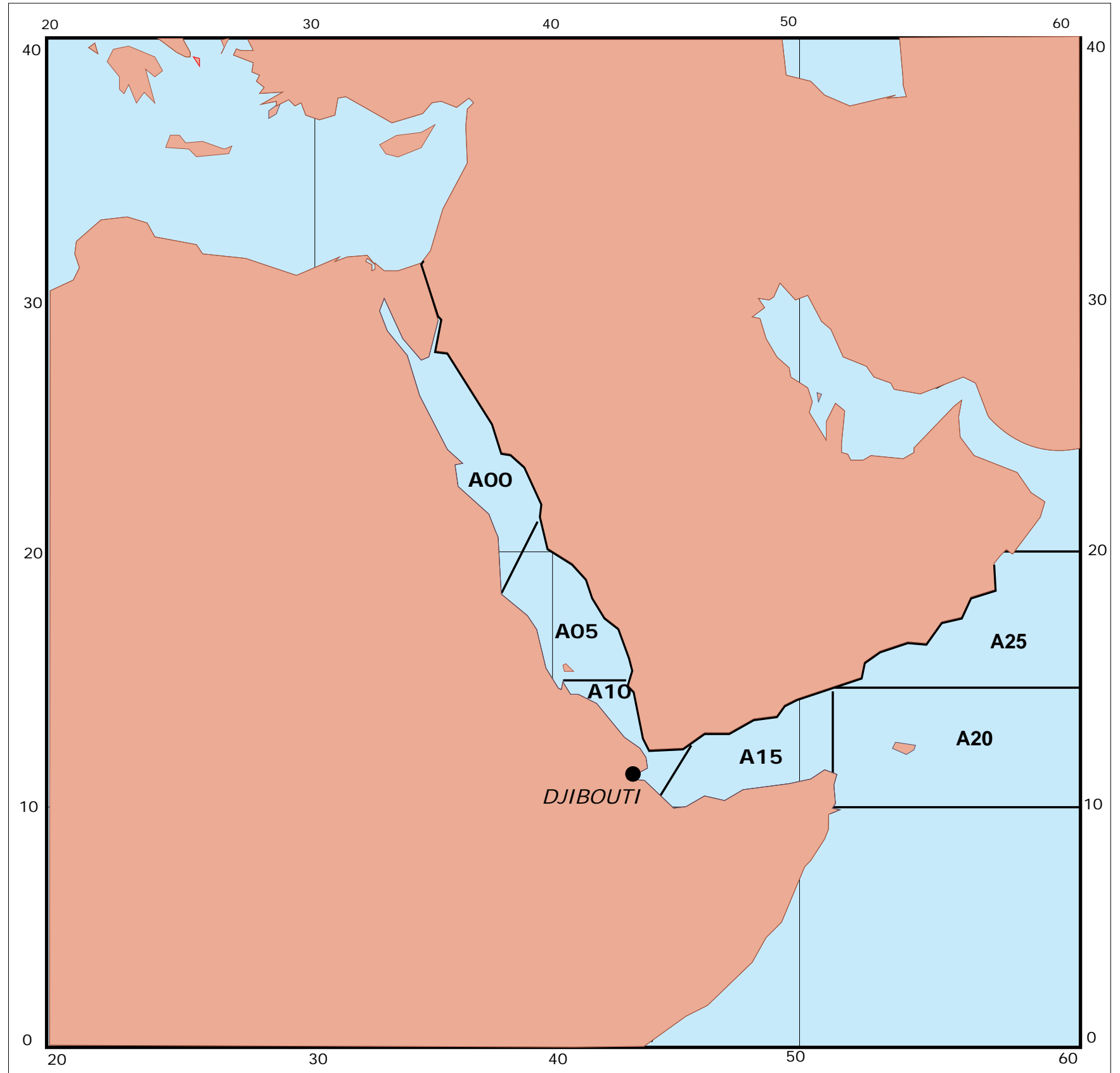
10 August 2016



METAREA IX - Sub areas

Djibouti

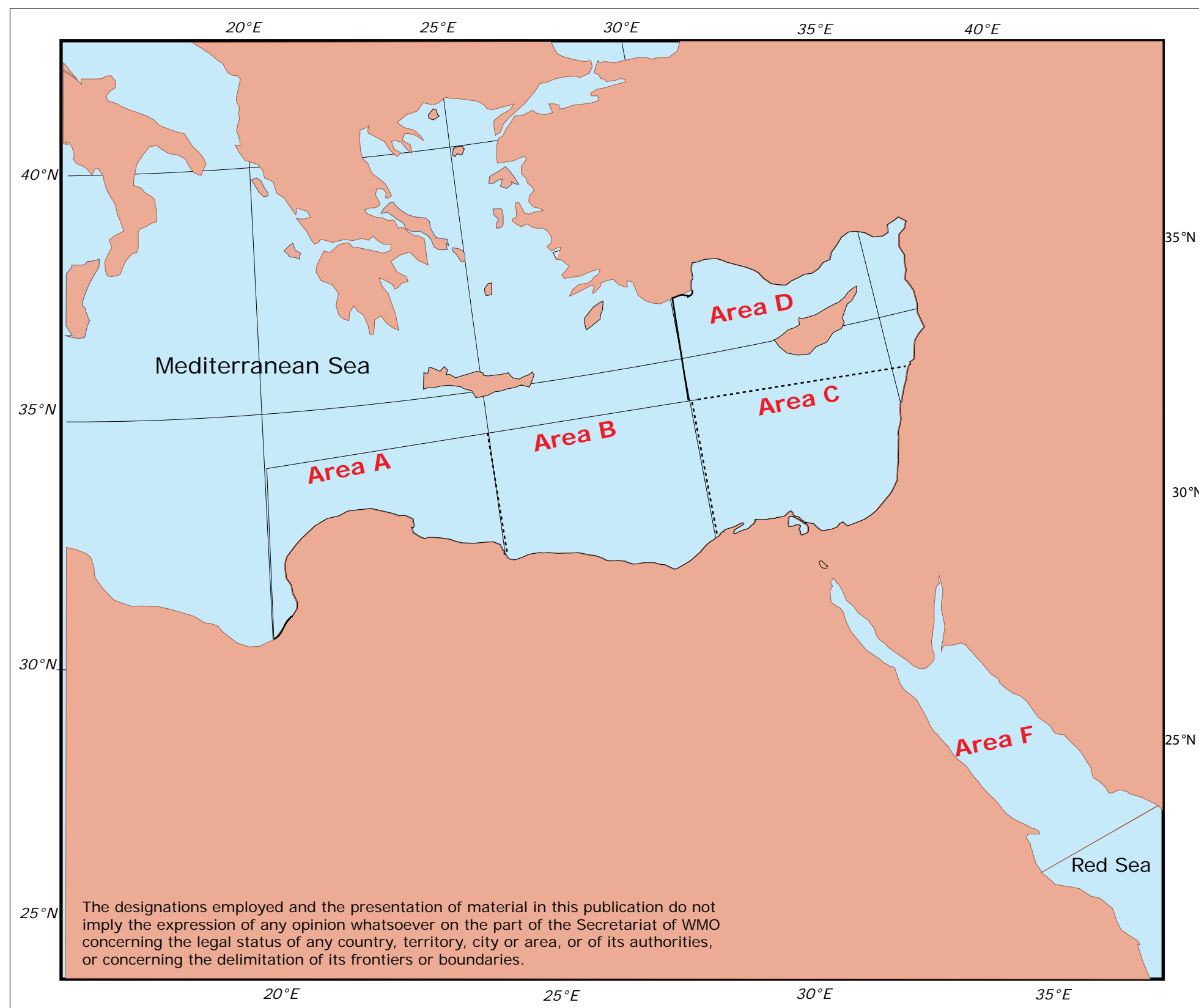
Coastal Forecast Areas



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METAREA IX - Sub areas

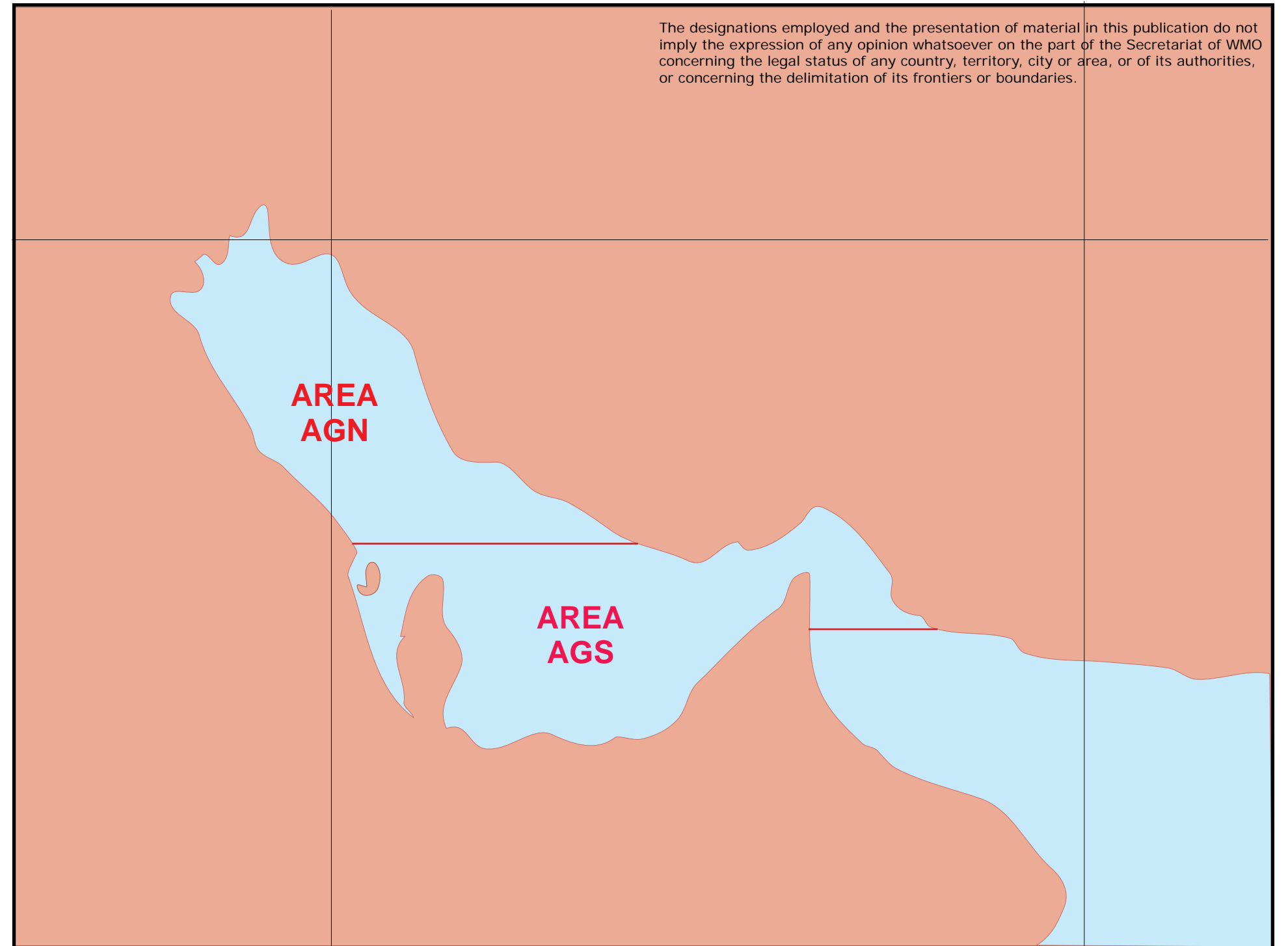
Egypt - Égypte
Coastal Forecast Areas



METAREA IX- Sub areas

Qatar

Weather Forecast Areas
Arabian Gulf from Kuwait Gulf waters to
Strait of Harmouz



KEY:

Arabian Gulf North of 26.5°N - AAA=AGN

Arabian Gulf South of 26.5°N including the
Strait of Hormuz - AAA=AGS

METAREA IX- Sub areas

Qatar

Coastal Forecast Areas

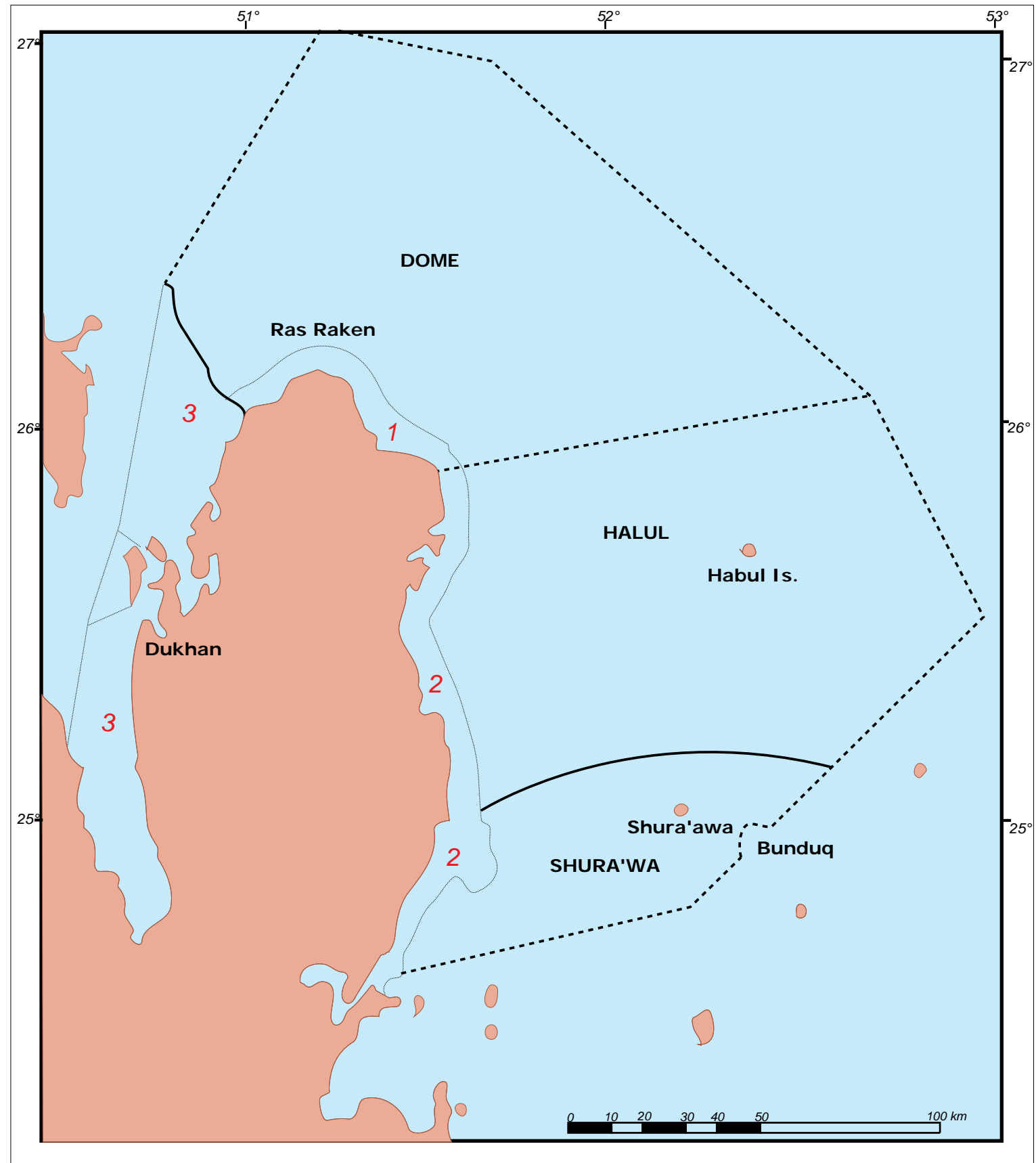
NOTE:

This map shows offshore forecast areas delineated by pecked lines. These lines are arbitrary median lines and do not denote any international boundaries.

KEY:

- 1 Inshore North
- 2 Inshore East
- 3 Inshore West

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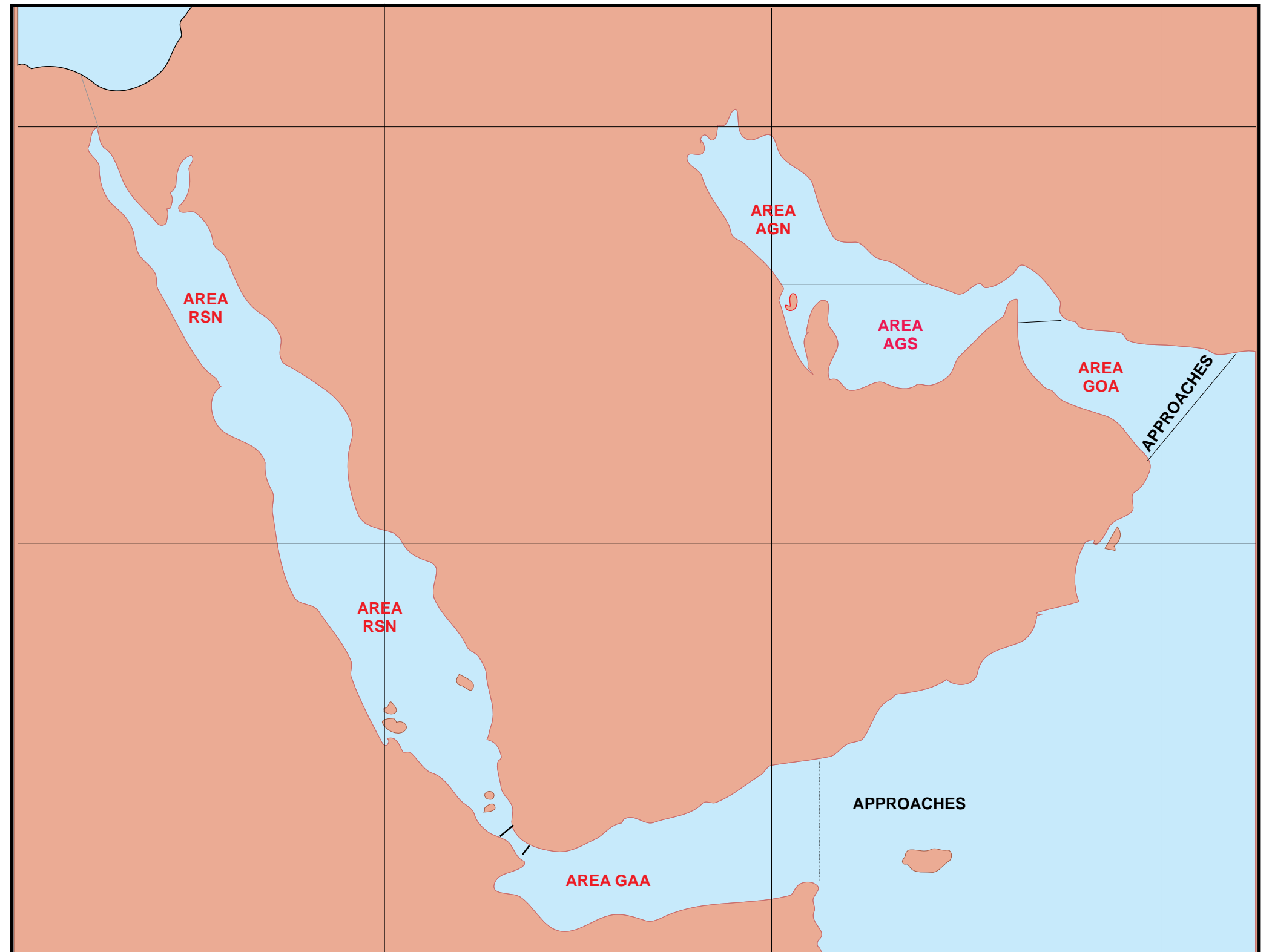
METAREA IX- Sub areas

Saudi Arabia - Arabie Saoudite

Weather Forecast Areas

KEY:

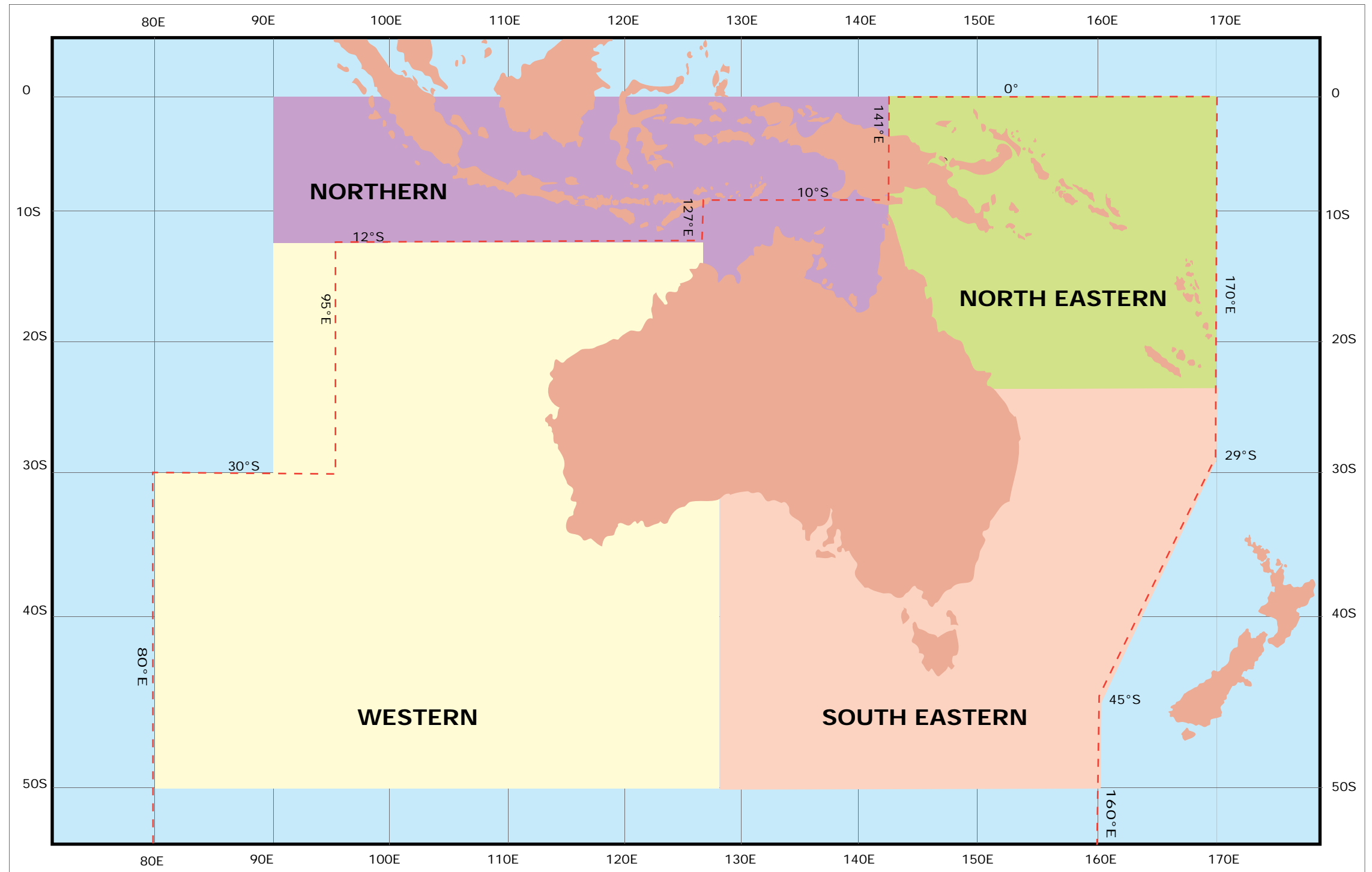
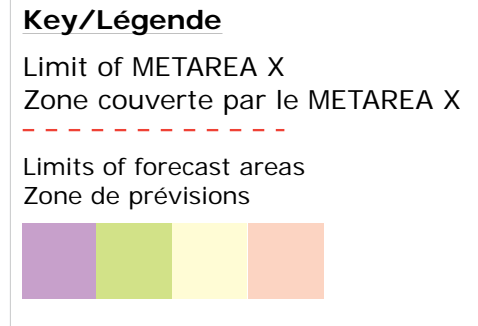
1. Red Sea, north of 20°N - AAA=RSN
2. Red Sea, south of 20°N including the Straits of Bab Al Mandab - AAA=RSS
3. Gulf of Aden and approaches - AAA=GAA
4. Arabian Gulf North of 26.5°N - AAA=AGN
5. Arabian Gulf South of 26.5°N including the Strait of Hormuz - AAA=AGS
6. Gulf of Oman and approaches - AAA=GOA



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METAREA X
Australia - Australie
 High Seas Forecast Areas

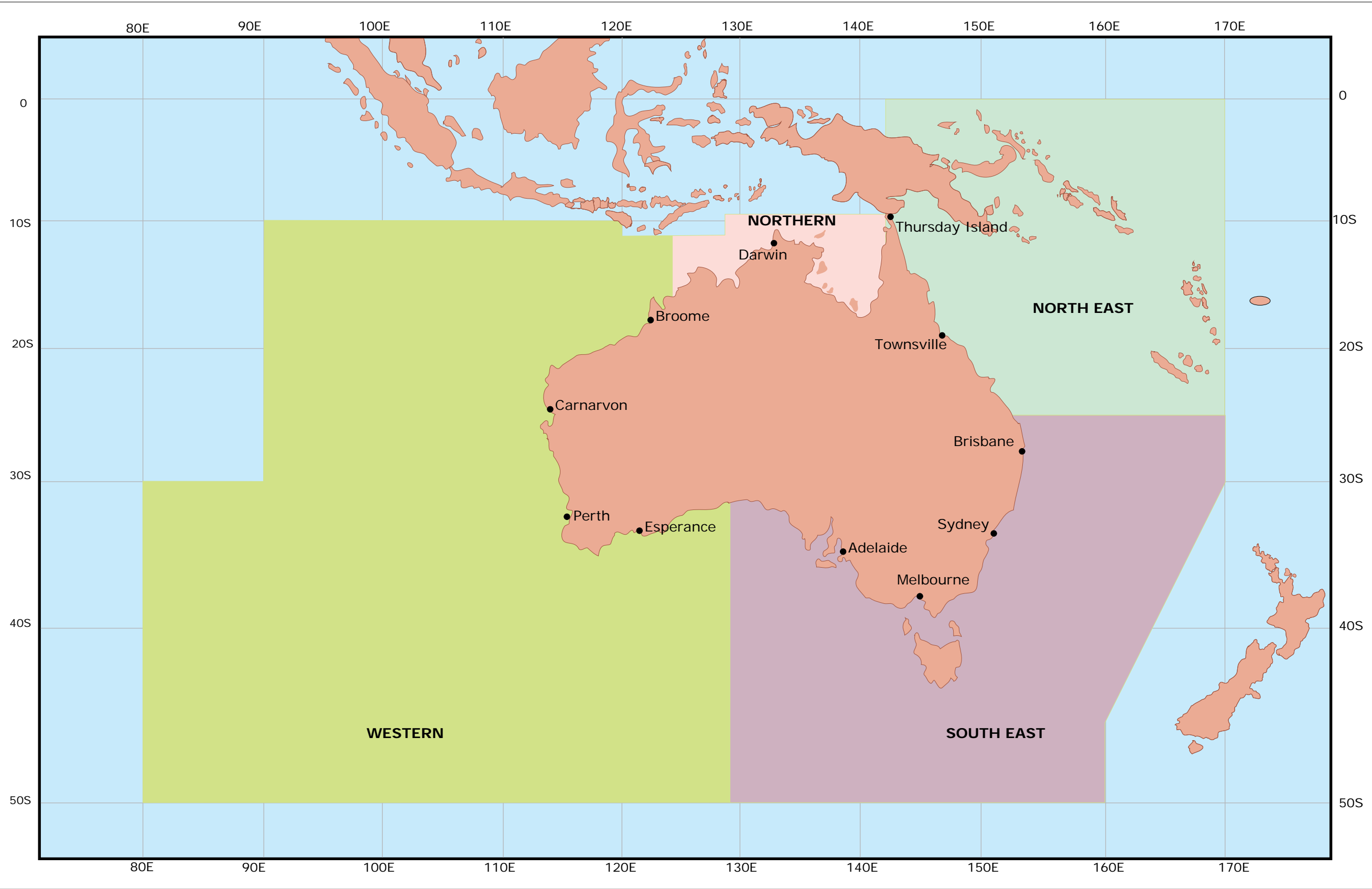
4 January 2018



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METAREA X

Australia - Australie
Ocean Wind Warning areas
4 January 2018



METAREA X

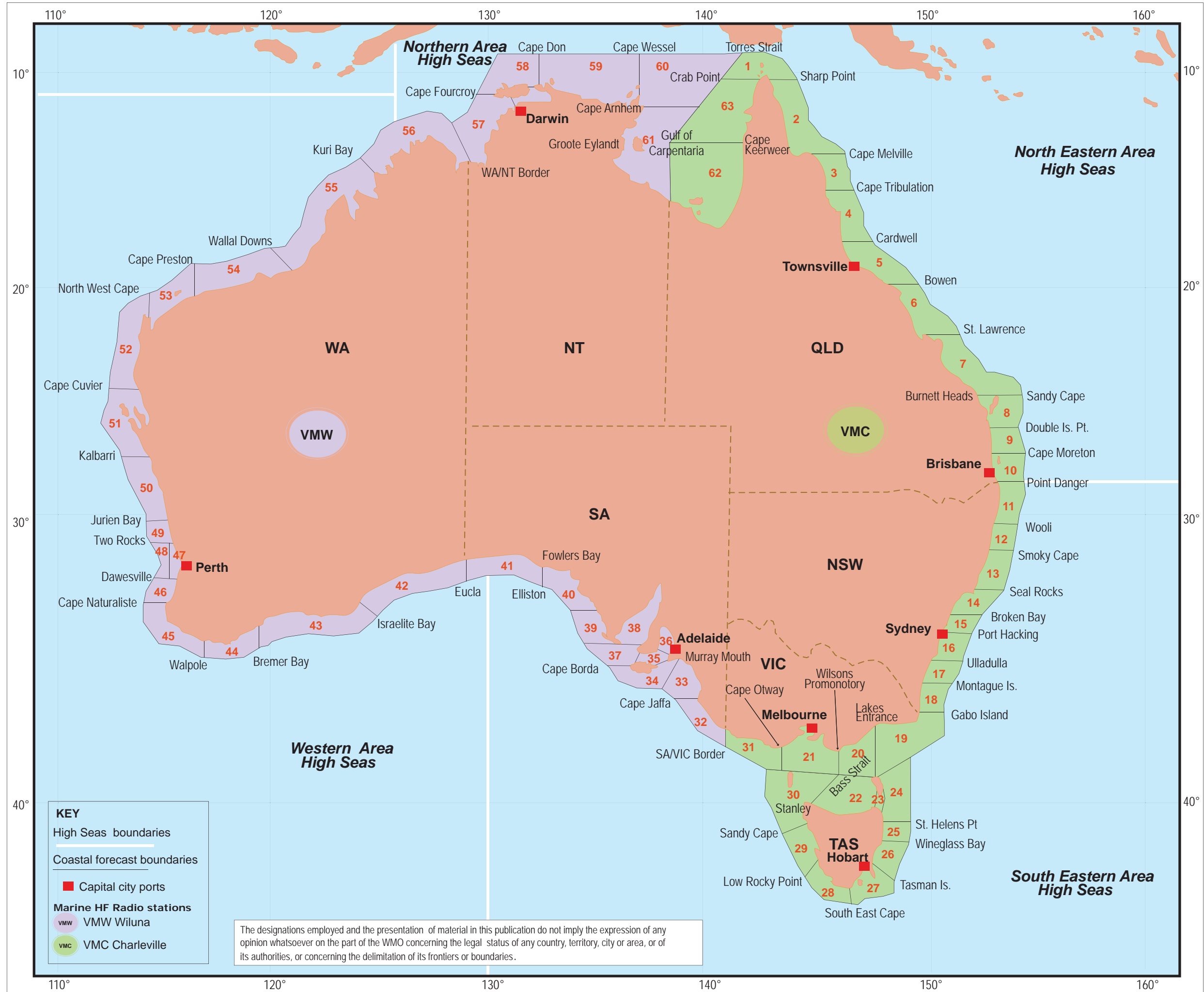
Australia - Australie

Radio-Facsimile - Coastal Waters

16 April 2015

Forecast area names

- 1 Torres Strait
- 2 Peninsula Coast
- 3 Cooktown Coast
- 4 Cairns Coast
- 5 Townsville Coast
- 6 Mackay Coast
- 7 Capricornia Coast
- 8 Fraser Island Coast
- 9 Sunshine Coast Waters
- 10 Gold Coast Waters
- 11 Byron Coast
- 12 Coffs Coast
- 13 Macquarie Coast
- 14 Hunter Coast
- 15 Sydney Coast
- 16 Illawarra Coast
- 17 Batemans Coast
- 18 Eden Coast
- 19 East Gippsland Coast
- 20 Central Gippsland Coast
- 21 Central Coast
- 22 Central North Coast
- 23 Banks Strait and Franklin Sound
- 24 East of Flinders Island
- 25 Upper East Coast
- 26 Lower East Coast
- 27 South East Coast
- 28 South West Coast
- 29 Central West Coast
- 30 Far North West Coast
- 31 West Coast
- 32 Lower South East Coast
- 33 Upper South East Coast
- 34 South Central Coast
- 35 Investigator Strait
- 36 Gulf St Vincent
- 37 Central Coast
- 38 Spencer Gulf
- 39 Lower West Coast
- 40 Upper West Coast
- 41 Far West Coast
- 42 Eucla Coast
- 43 Esperance Coast
- 44 Albany Coast
- 45 Leeuwin Coast
- 46 Bunbury/Geographe Coast
- 47 Perth Local Waters
- 48 Perth Coast
- 49 Lancelin Coast
- 50 Geraldton Coast
- 51 Gascoyne Coast
- 52 Ningaloo Coast
- 53 Pilbara Coast West
- 54 Pilbara Coast East
- 55 West Kimberley Coast
- 56 North Kimberley Coast
- 57 Beagle Bonaparte Coast
- 58 North Tiwi Coast
- 59 Arafura Coast
- 60 Gove Peninsula Coast
- 61 Roper Groote Coast
- 62 South East Gulf of Carpentaria
- 63 North East Gulf of Carpentaria

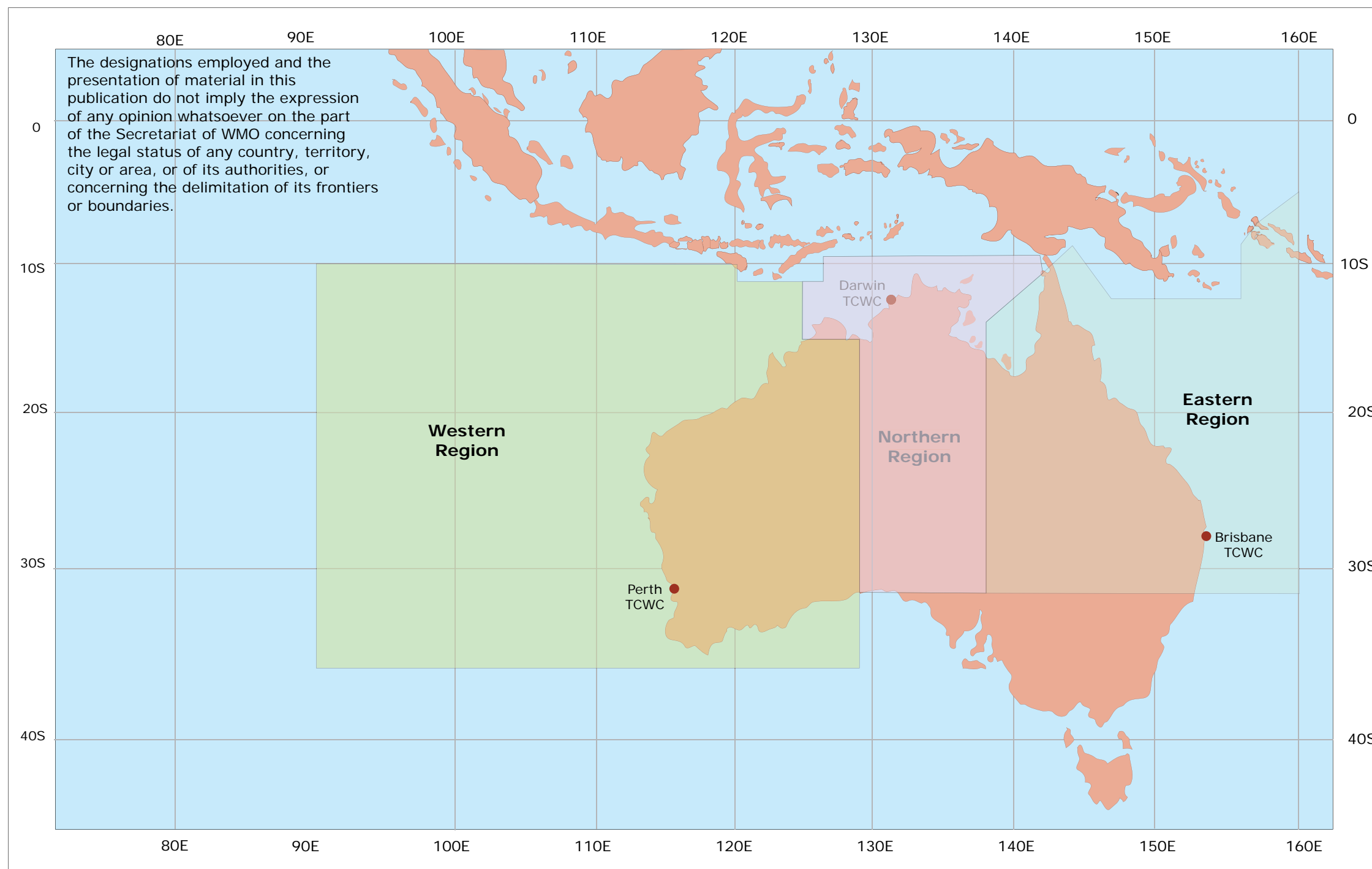


METAREA X

Australia - Australie

Tropical Cyclone Service areas

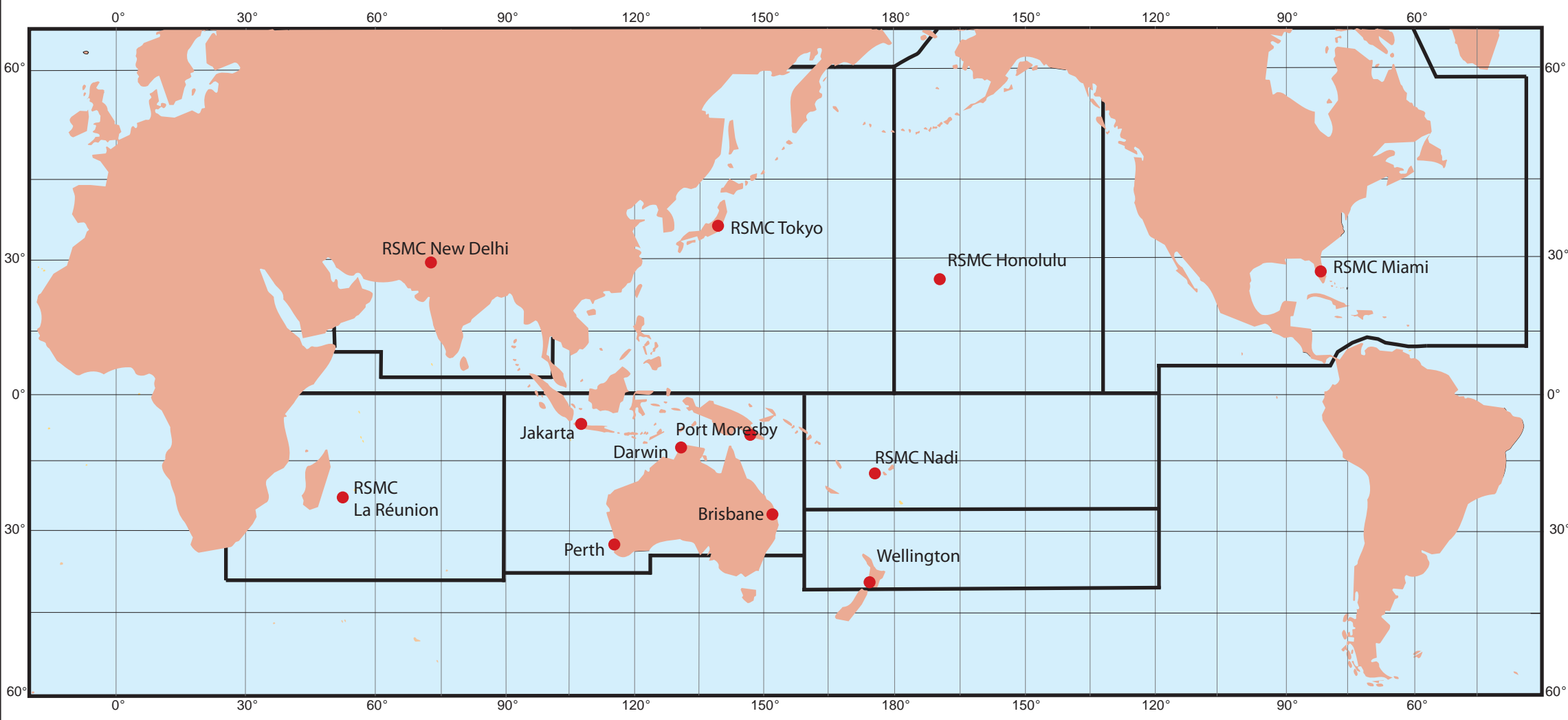
15 January 2015



METAREA X

Australia - Australie
Global Cyclone Warning Centres

15 January 2015

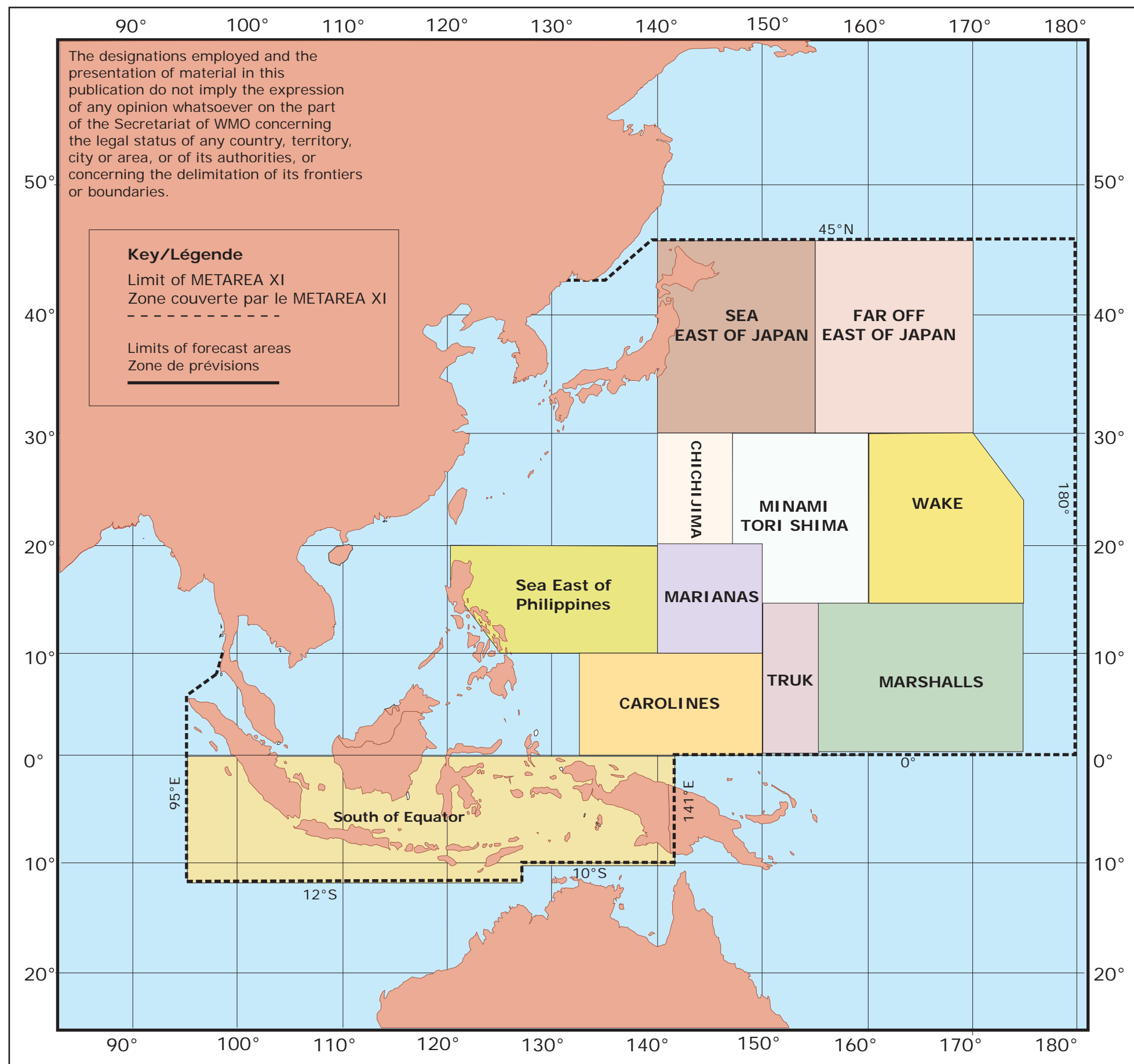


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METAREA XI

North Western Pacific
 China - Chine (IOR)
 Japan- Japon (POR)

Forecast Areas - Zones de prévisions

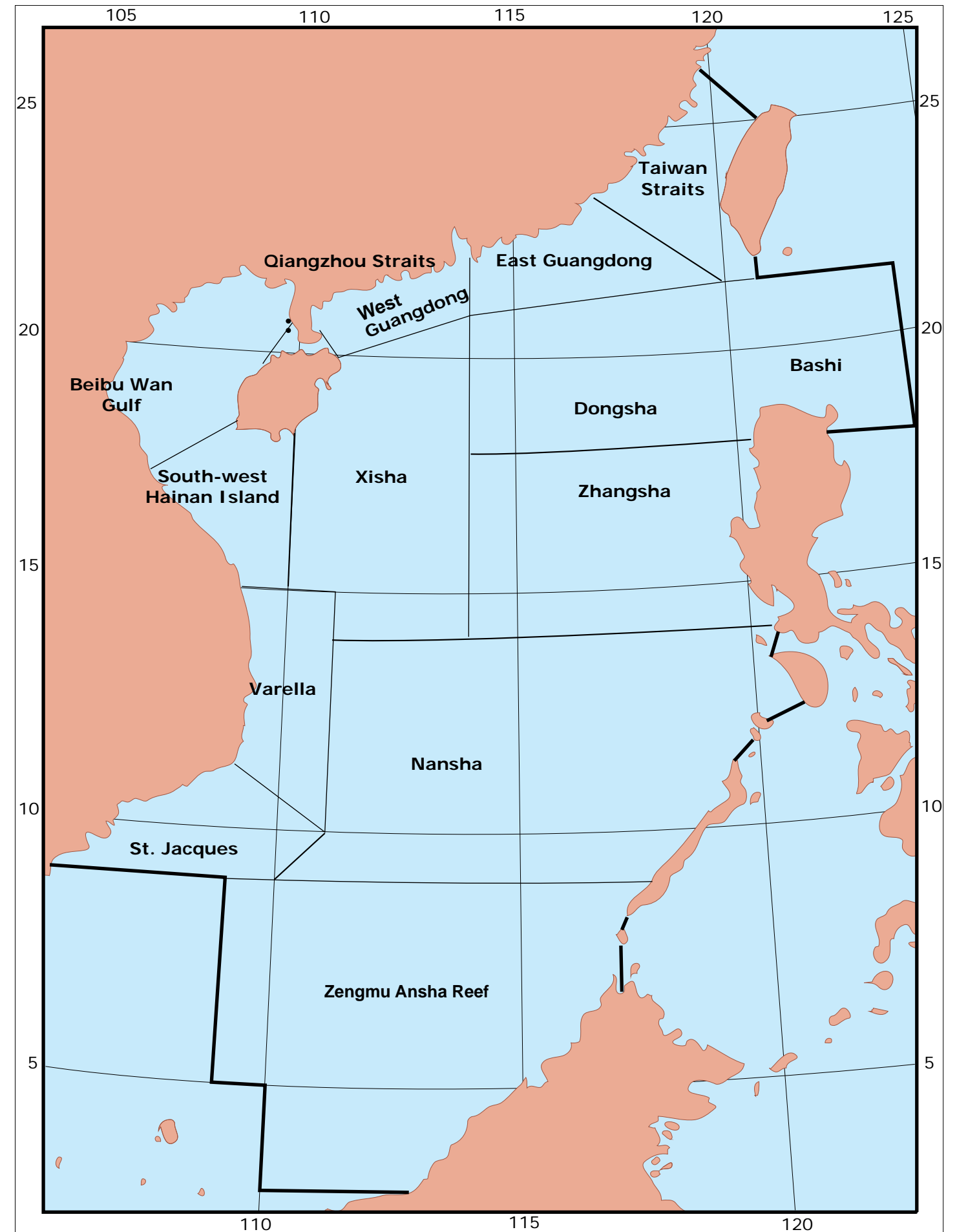


METAREA XI

China - Chine (IOR)

SafetyNET forecast areas

South China Sea



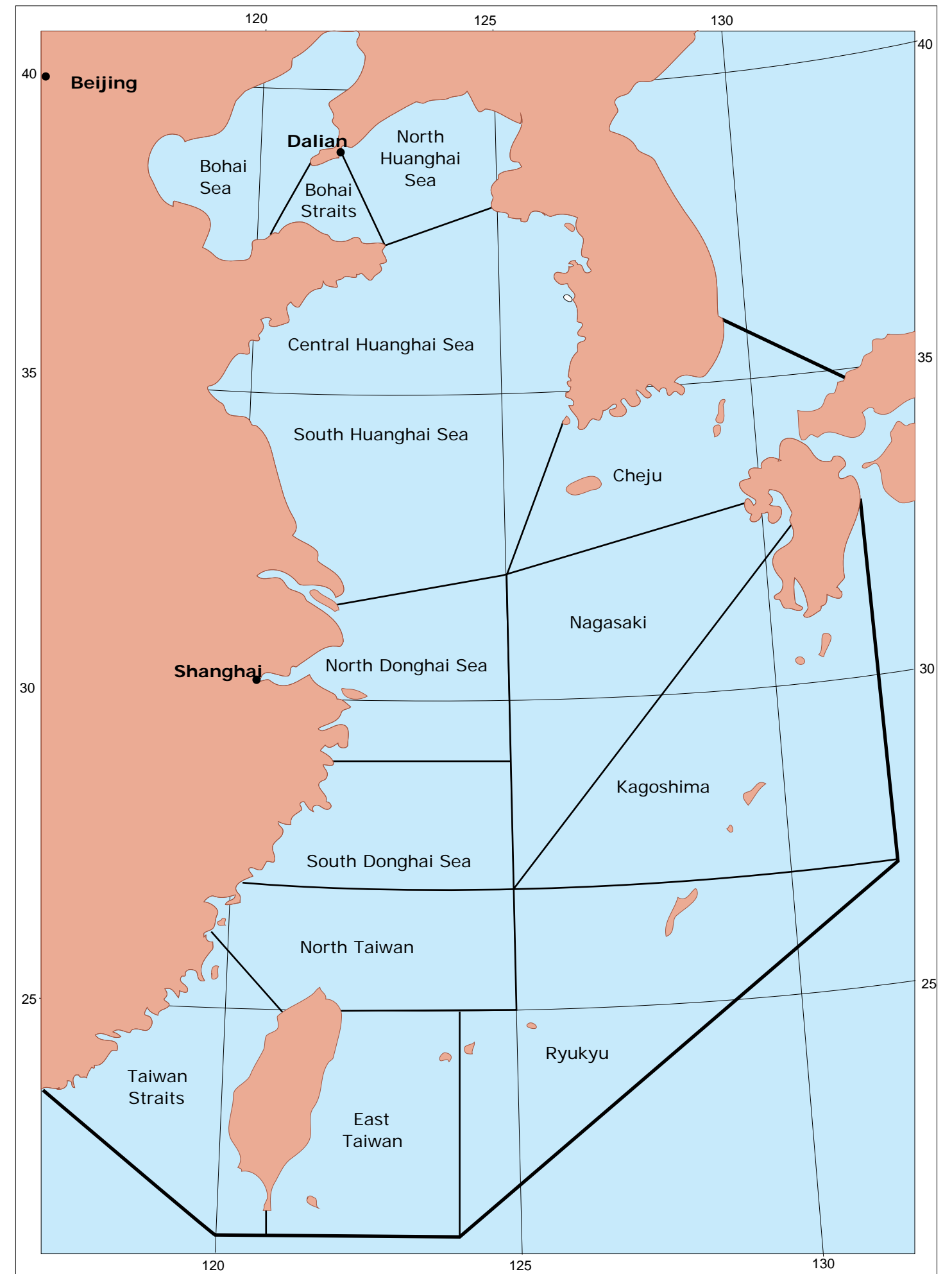
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METAREA XI

China - Chine (IOR)

SafetyNET forecast areas

Yellow Sea and East China Sea



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METAREA XI

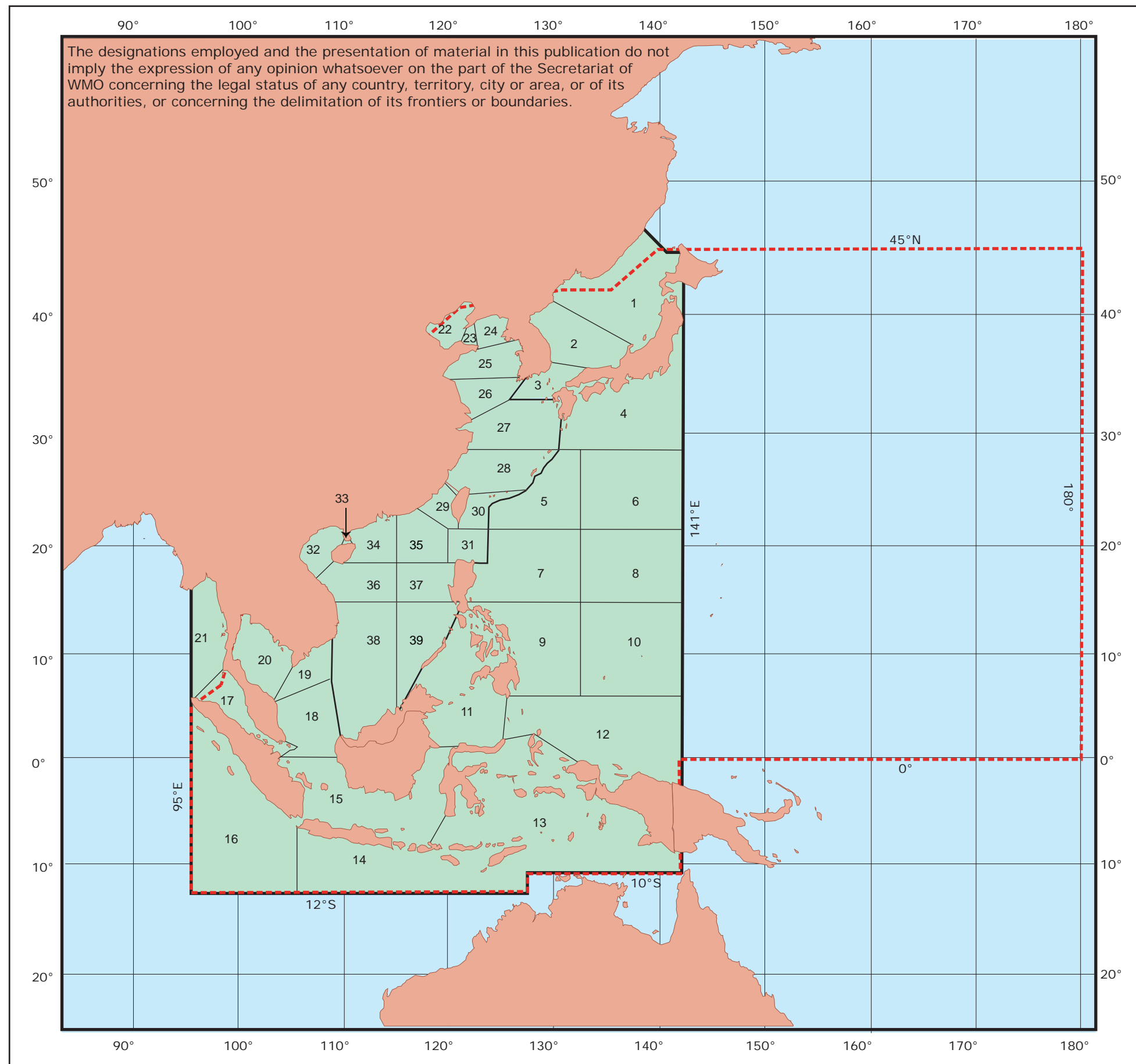
China - Chine (IOR)

Forecast for High Seas
04 January 2018

KEY:

- - - - - Limit of METAREA XI
- Limit of high sea sub-areas

Sub-area ID	Sub-area Name
1	Northeastern part of Japan Sea
2	Southwestern part of Japan Sea
3	Korea Strait
4	Sea south of Japan
5	Sea east of Ryukyu Islands
6	Sea west of Bonin Islans
7	Sea northeast of the Philippines
8	Sea west of Northern Mariana Islands
9	Sea southeast of the Philippines
10	Sea west of Guam
11	Sea southwest of the Philippines
12	Sea northeast of Indonesia
13	Sea southeast of Indonesia
14	Sea south of Jawa
15	Sea north of Jawa/Jawa Sea
16	Sea west of Sumatra
17	Malacca Strait
18	Sea east of Singapore
19	Sea south of Viet Nam
20	Gulf of Thailand
21	Andaman Sea
22	Bohai Sea
23	Bohai Strait
24	Northern Part of Yellow Sea
25	Central Part of Yellow Sea
26	Southern Part of Yellow Sea
27	Northern Part of East China Sea
28	Southern Part of East China Sea
29	Taiwan Strait
30	Sea East of Taiwan
31	Bashi Channel
32	Beibu Gulf
33	Qiongzhou Strait
34	Northwestern Part of South China Sea
35	Northeastern Part of South China Sea
36	West Central South China Sea
37	East Central South China Sea
38	Southwestern Part of South China Sea
39	Southeastern Part of South China Sea

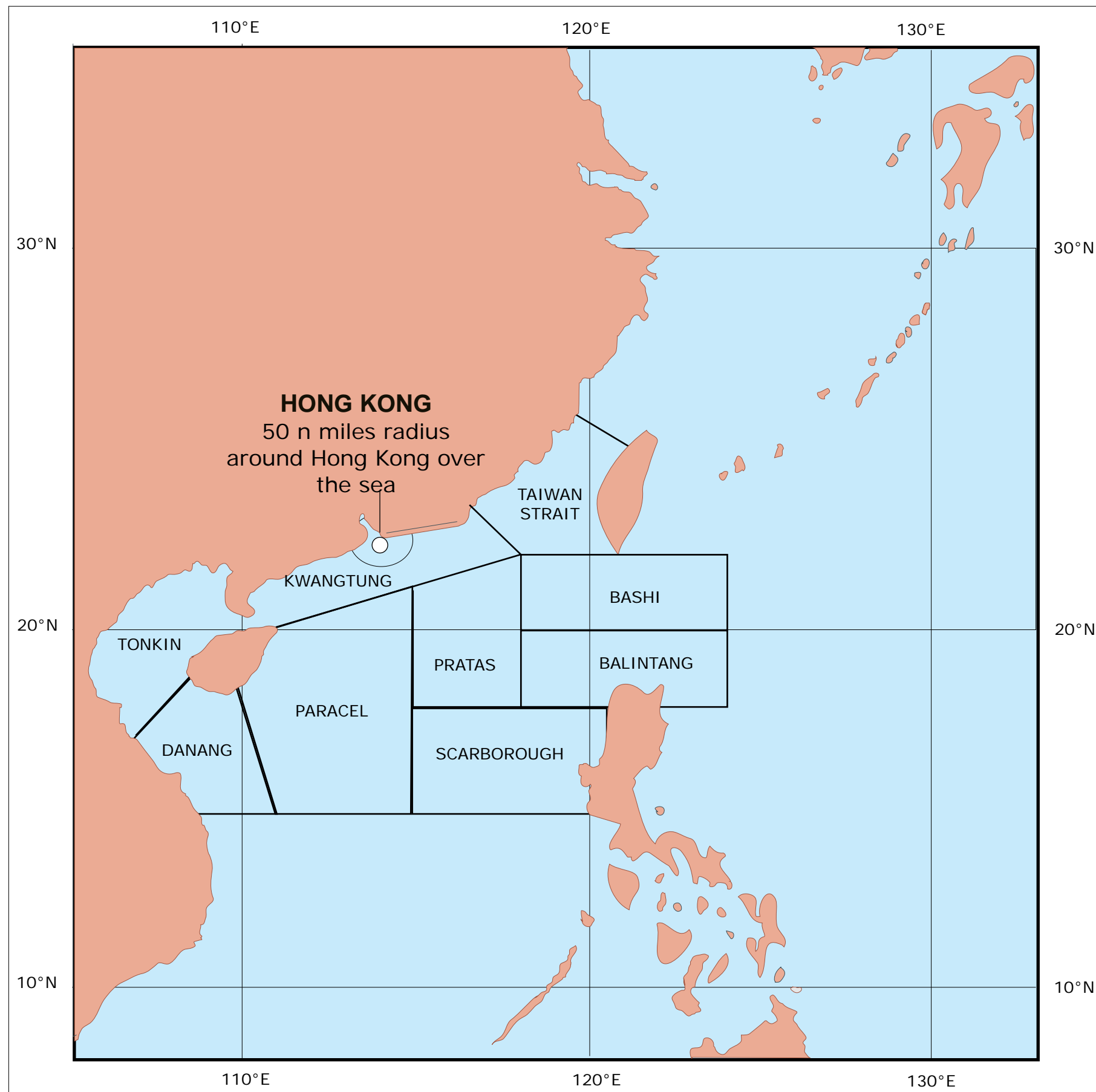


METAREA XI - Sub areas

Hong Kong, China - Hong Kong, Chine

Hong Kong Marine Forecast Areas

South China coastal areas



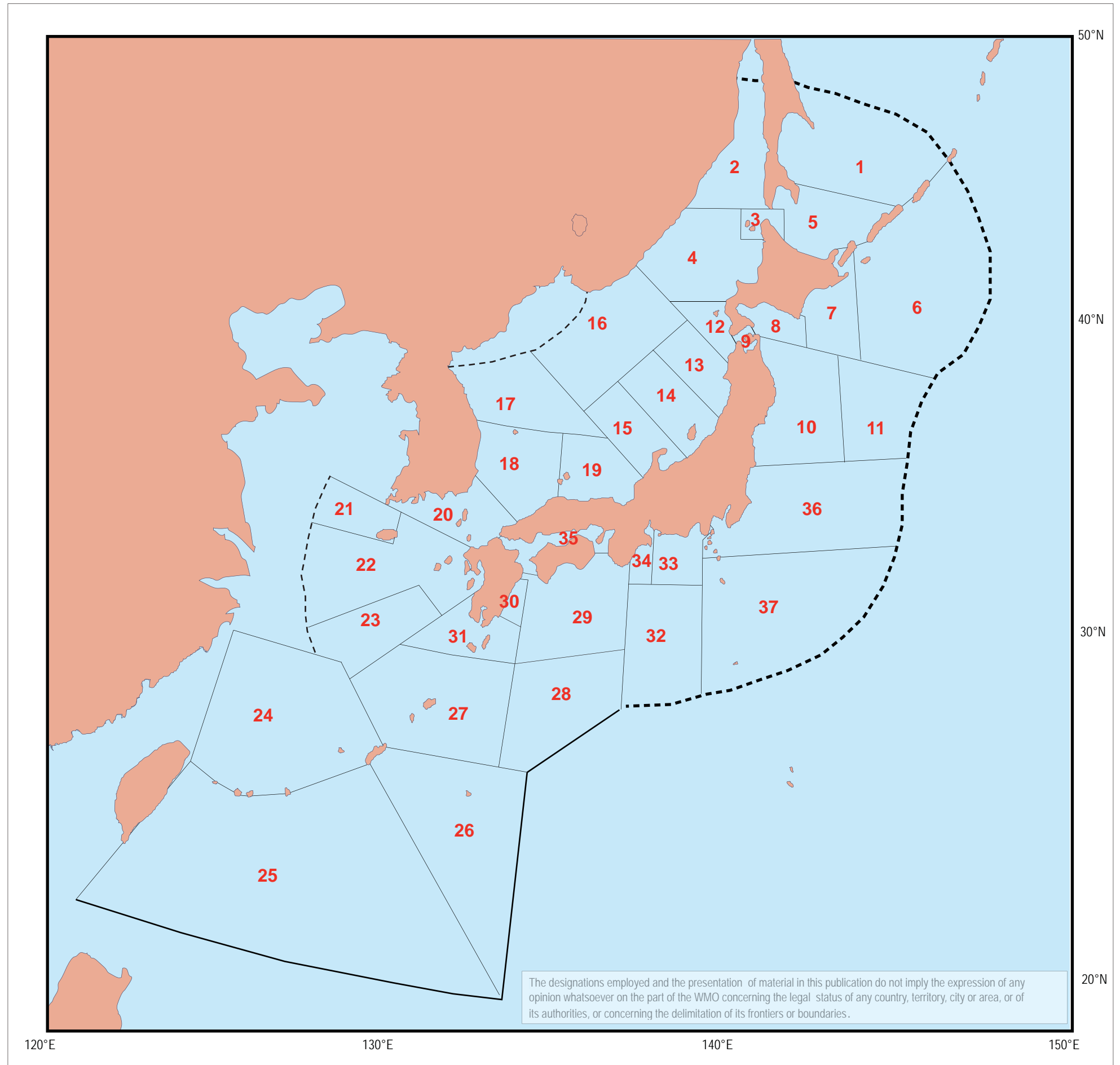
The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

METAREA XI

Japan

NAVTEX Forecast Areas
4 November 2013

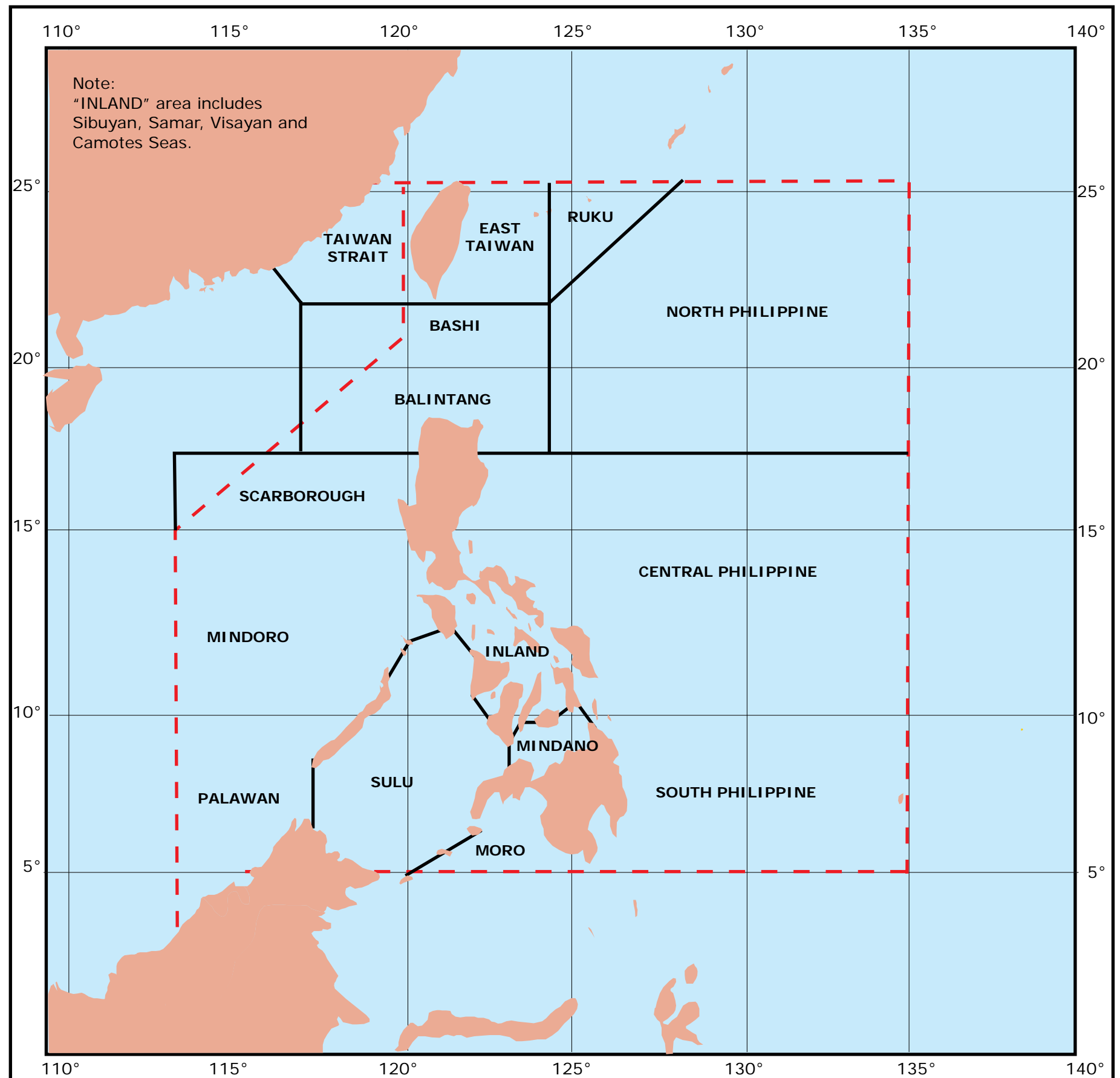
1	Sea East of Sakhalin / Northern Sea of Japan Southern Sea of Okhotsk
2	Sea West of Sakhalin
3	Soya Kaikyo / Northern Sea of Japan Southern Sea of Okhotsk
4	Sea West of Hokkaido
5	Sea off Abashiri
6	Sea East of Hokkaido / Sea South and East of Hokkaido
7	Sea off Kushiro
8	Sea off Hidaka
9	Tsugaru Kaikyo
10	Western Sea off Sanriku
11	Eastern Sea off Sanriku
12	Sea off Hiyama and Tsugaru
13	Sea off Akita / Central Sea of Japan
14	Sea off Sado / Central Sea of Japan
15	Sea off Noto / Central Sea of Japan
16	Sea off Southern Coast of Maritime Province / Central Sea of Japan
17	Northwestern Part of Japan Sea
18	Sea West of Oki Syoto
19	Sea East of Oki Syoto and Around Wakasa Wan
20	Tsushima Kaikyo
21	Sea West of Cheju Island
22	Sea West of Nagasaki
23	Sea southwest of Meshima
24	Southern Part of East China Sea
25	Sea South of Okinawa
26	Sea East of Okinawa
27	Sea Around Amami / Sea South of Kyushu and Hyuga Nada
28	Southern Sea off Shikoku / Sea off Shikoku and Setonaikai
29	Northern Sea off Shikoku / Sea off Shikoku and Setonaikai
30	Hyuga Nada
31	Sea off Kagoshima / Sea South of Kyushu and Hyuga Nada
32	Southern Sea off Tokai
33	Eastern Sea off Tokai
34	Western Sea off Tokai
35	Setonaikai
36	Northern Sea off Kanto / Sea off Kanto
37	Southern Sea off Kanto



METAREA XI - Sub areas

Philippines

Forecast Areas

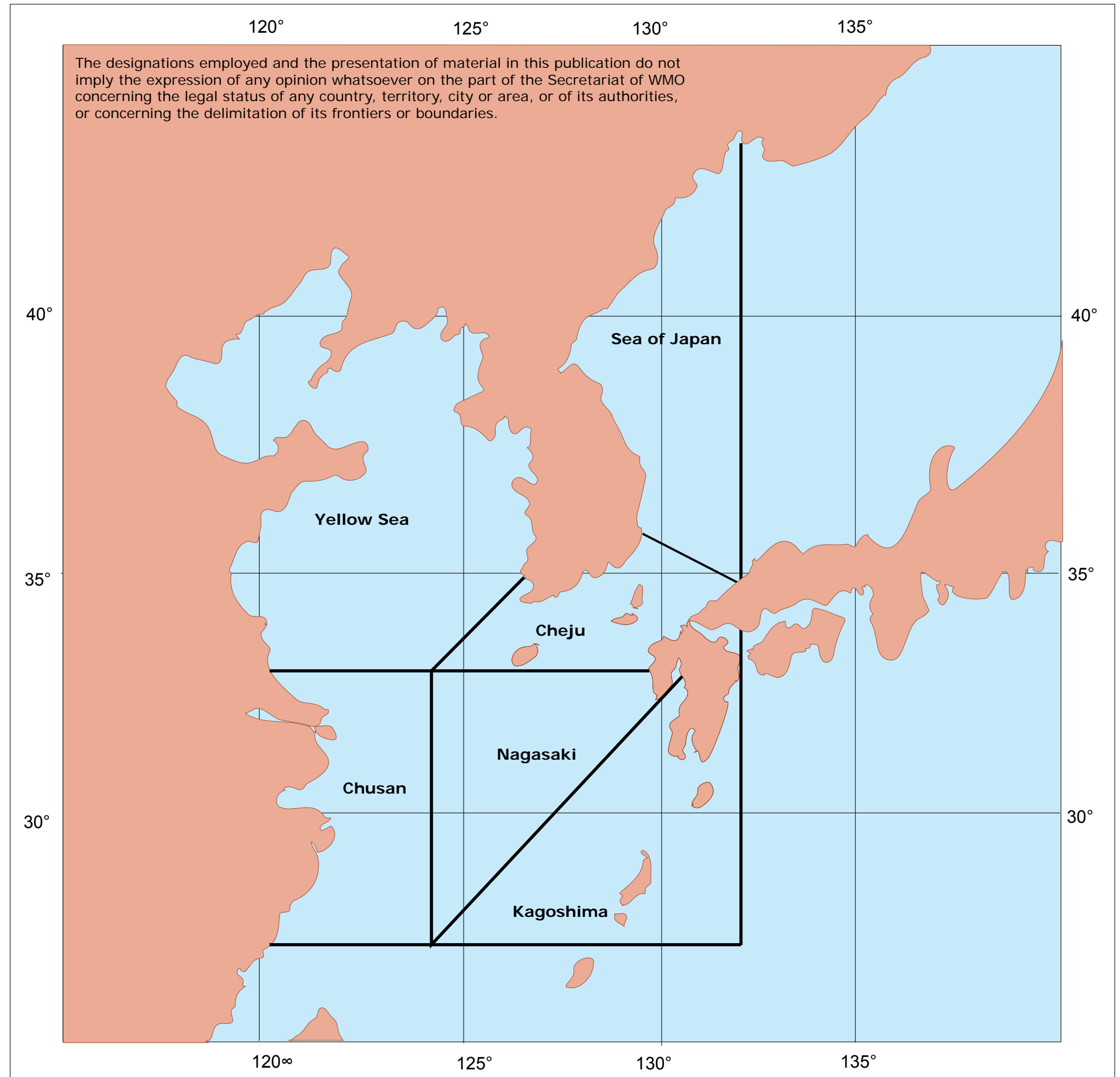


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METAREA XI - Sub areas

Republic of Korea - République de Corée

Weather Forecast Areas



METAREA XI - Sub areas

Thailand - Thaïlande

Forecast areas

KEY:

Division of forecasting areas:

Area 1:

Gulf of Thailand East coast to latitude 5°N and longitude 107°E.

Area 2

Gulf of Thailand West coast to latitude 5°N

Area 3:

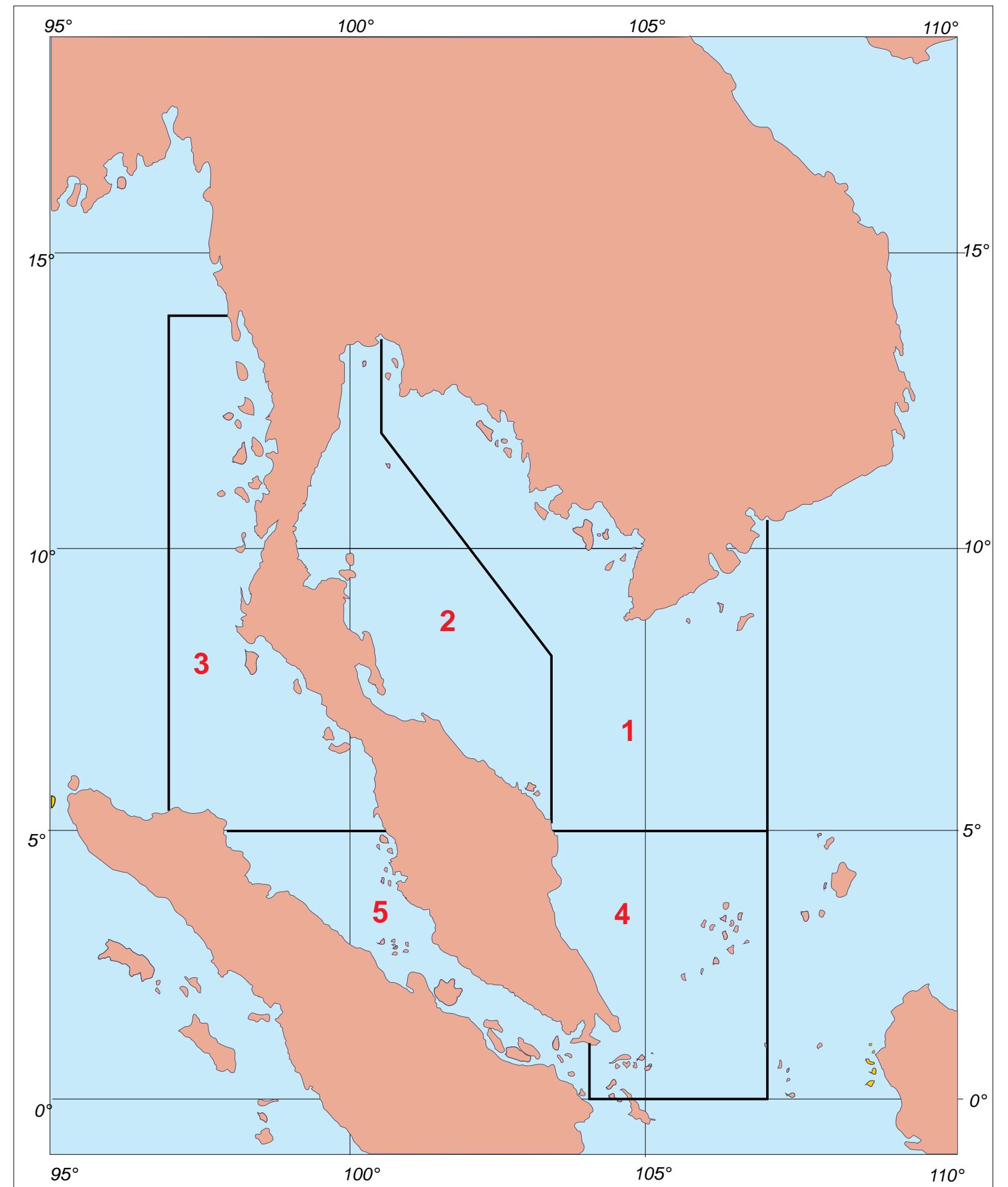
West coast of Southern Myanmar below latitude 14°N and West coast of Southern Thailand to latitude 5°N.

Area 4:

East coast of the Malay Peninsula from latitude 5°N to the Equator.

Area 5:

The Strait of Malacca.

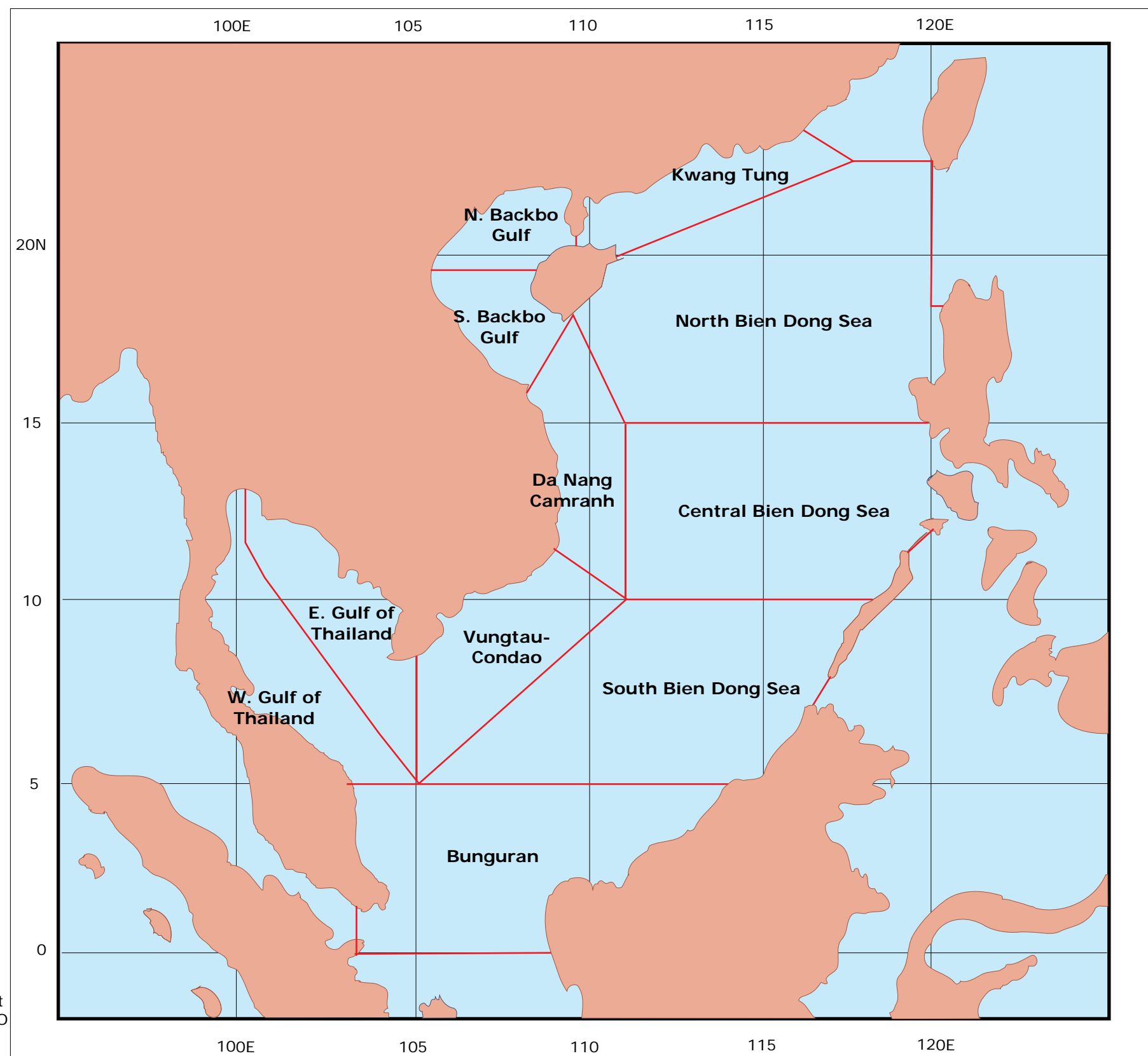


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METAREA XI - Sub areas

VIET NAM

Forecast Areas



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METAREA XII - Subareas

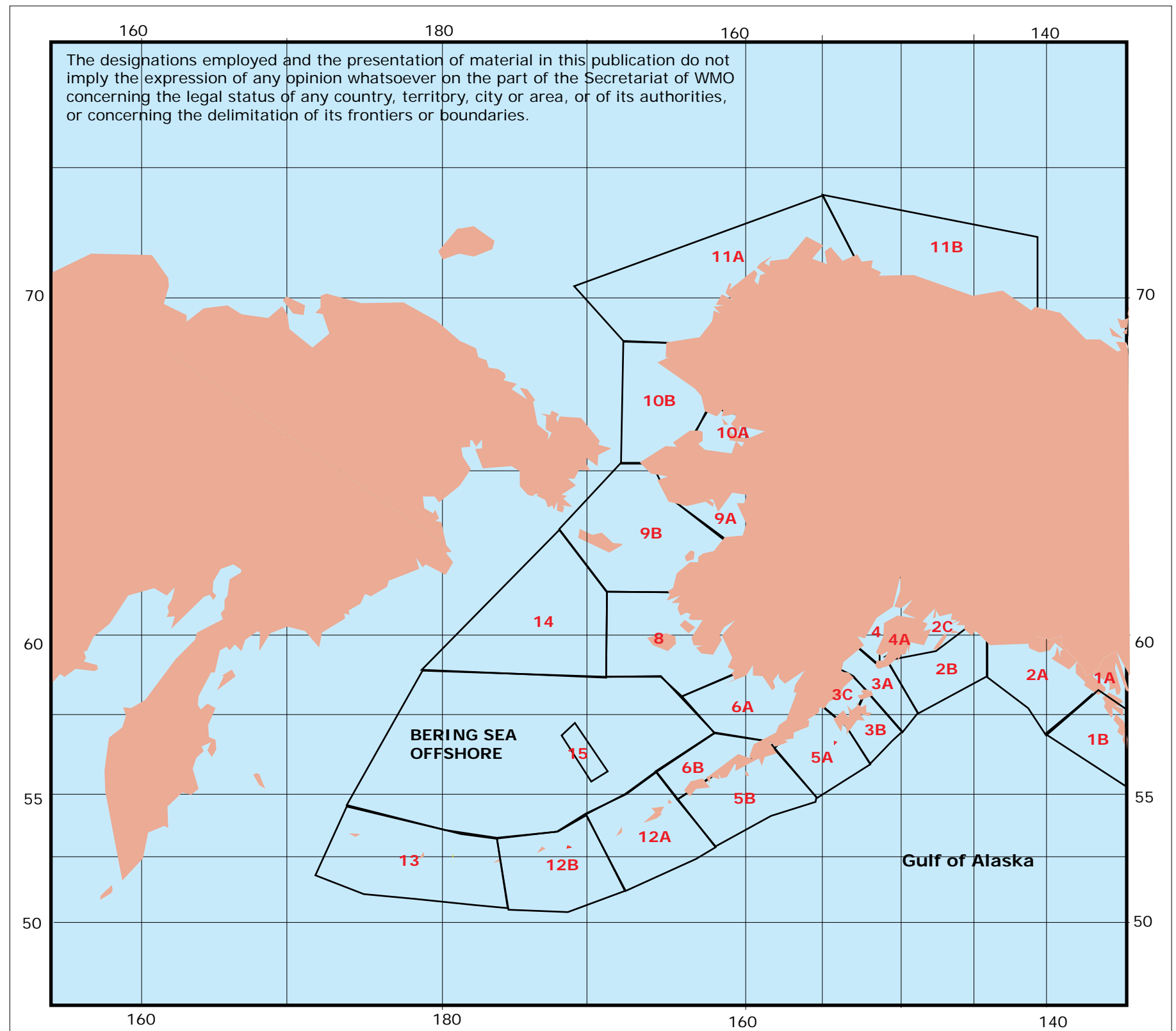
United States of America (Alaska) / États-Unis d'Amérique (Alaska)

Weather Forecast Areas

INDEX TO MARINE COASTAL FORECAST AREAS FOR ALASKAN WATERS

Area No. Area covered

- 1A South east Alaska, Inside Waters, Dixon Entrance to Skagway
- 1B South east Alaska, Outside Waters, Dixon Entrance to Cape Fairweather
- 2A North east Gulf Coast, Cape Fairweather to Cape Suckling
- 2B North Gulf Coast, Cape Suckling to Gore Point
- 2C Prince William Sound
- 3A Barren Island and Kamishak Bay Waters
- 3B Shuyak Island to Sitkinak
- 3C Shelikof Strait
- 4 Cook Inlet, North of Kamishak Bay and English Bay
- 4A Kachemak Bay
- 5A Coastal Waters south of the Alaska Peninsula, Sitkinak to Castle Cape
- 5B Castle Cape to Sarichef
- 6A Bristol Bay, north portion from Cape Newham to Port Heiden
- 6B Bristol Bay, south portion from Port Heiden to Cape Sarichef
- 8 Cape Newenham to Dall Point
- 9A Norton Sound, Sledge Island to Stuart Island
- 9B Dall Point to Wales, including S. Lawrence island waters
- 10A Kotzebue Sound (East of Cape Espenberg and Cape Krusenstern)
- 10B Wales to Cape Lisburne
- 11A Arctic Coast, Cape Lisburne to Lonely
- 11B Arctic Coast, Lonely to Demarcation Point
- 12A Eastern Aleutian Islands, Cape Sarichef to Nikolski
- 12B Eastern Aleutian Islands, Adak to Attu
- 13 Western Aleutian Islands, Adak to Attu
- 14 St. Matthew Island Waters
- 15 Pribilof Islands Near-shore Waters

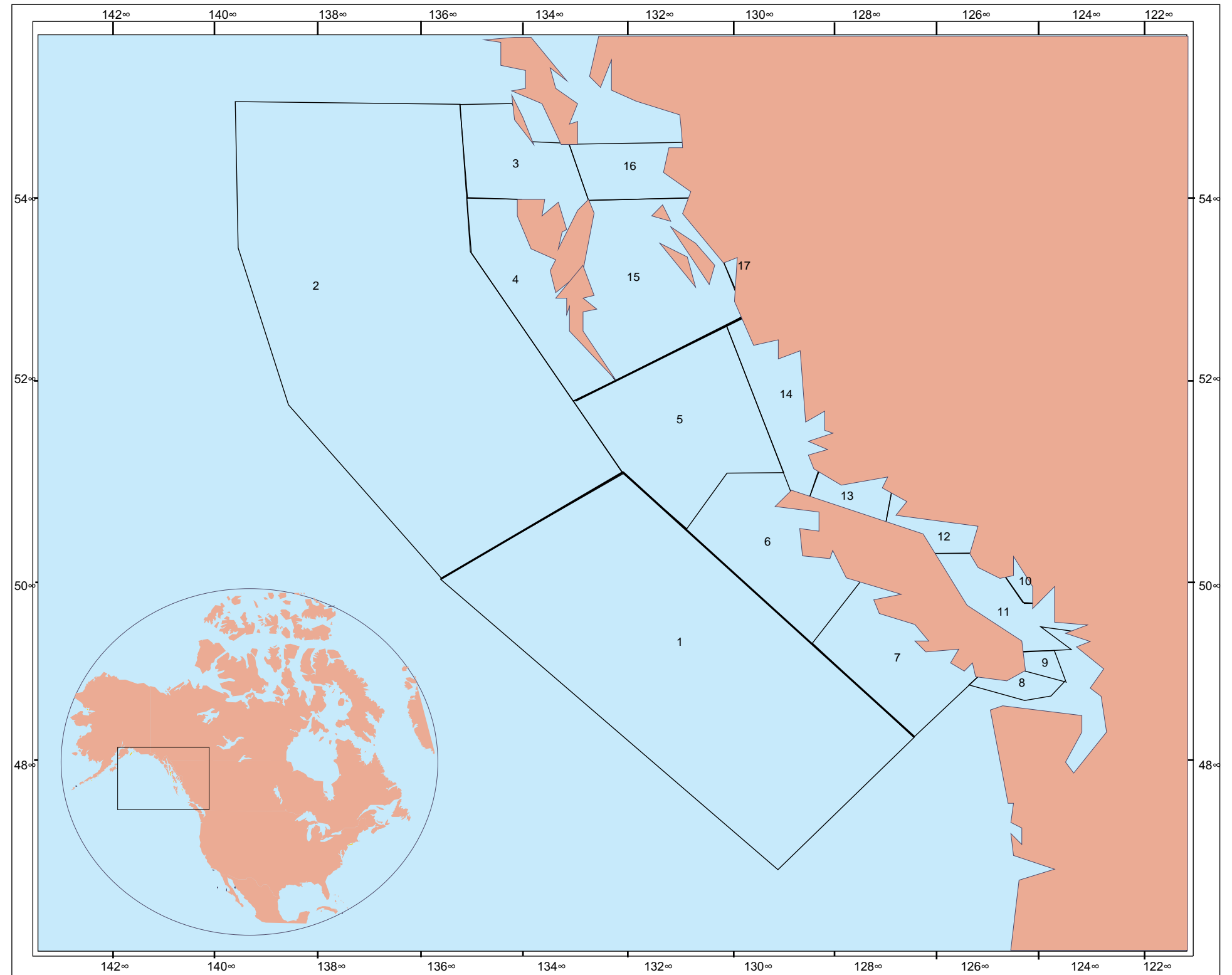


METAREA XII - Subareas

Canada

Weather Forecast Areas (Pacific coast):

- 1 Explorer
- 2 Bowie
- 3 Dixon Entrance (West)
- 4 West Coast Charlottes
- 5 Queen Charlotte Sound
- 6 West Coast Vancouver Island (North)
- 7 West Coast Vancouver Island (South)
- 8 Juan de Fuca Strait
- 9 Haro Strait
- 10 Howe Sound
- 11 Strait of Georgia
- 12 Johnson Strait
- 13 Queen Charlotte Strait
- 14 Central Coast
- 15 Hecate Strait
- 16 Dixon Entrance (East)
- 17 Douglas Channel



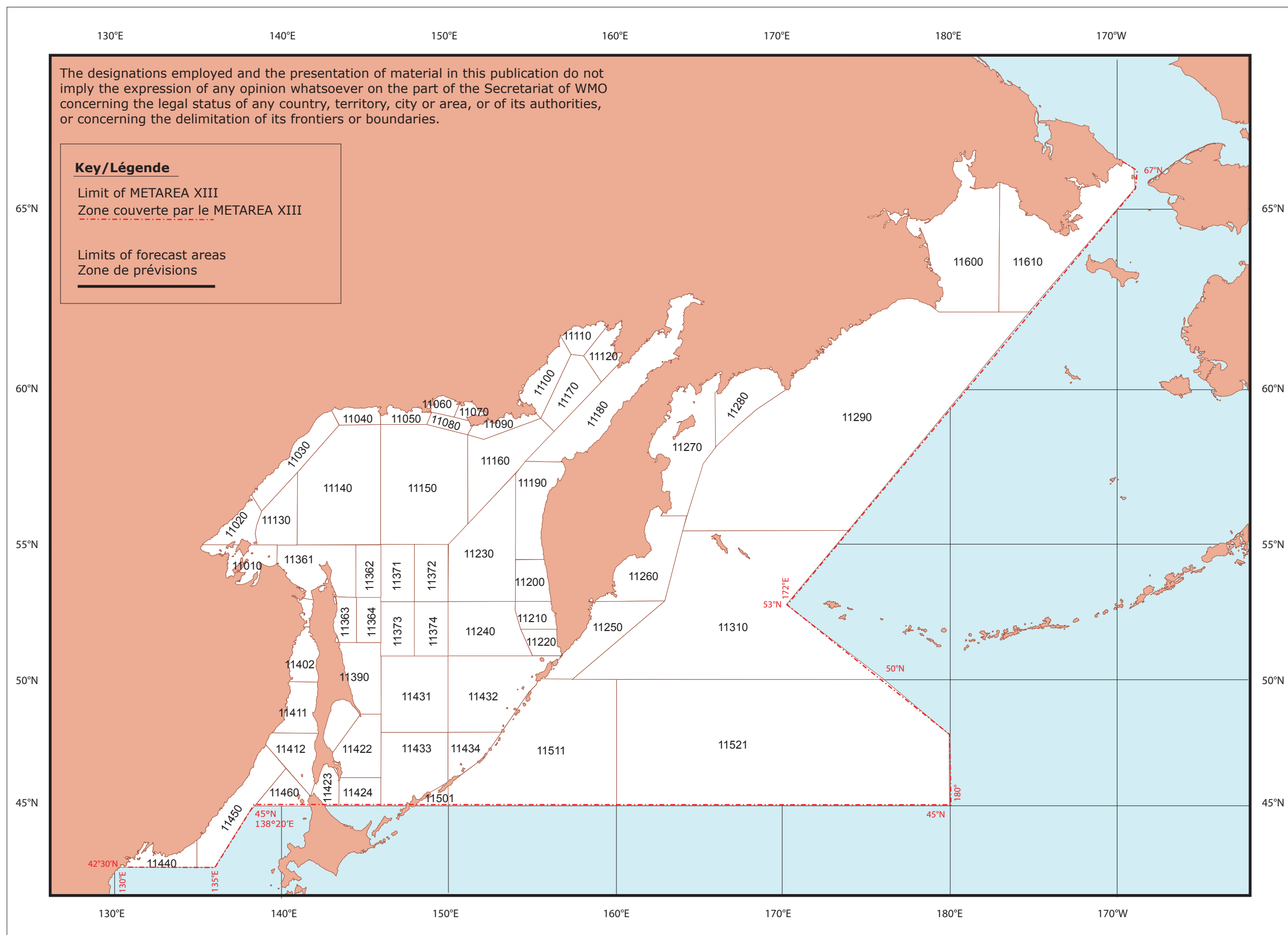
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METAREA XIII

Russian Federation - Fédération de Russie

SafetyNET forecast areas

10 April 2017

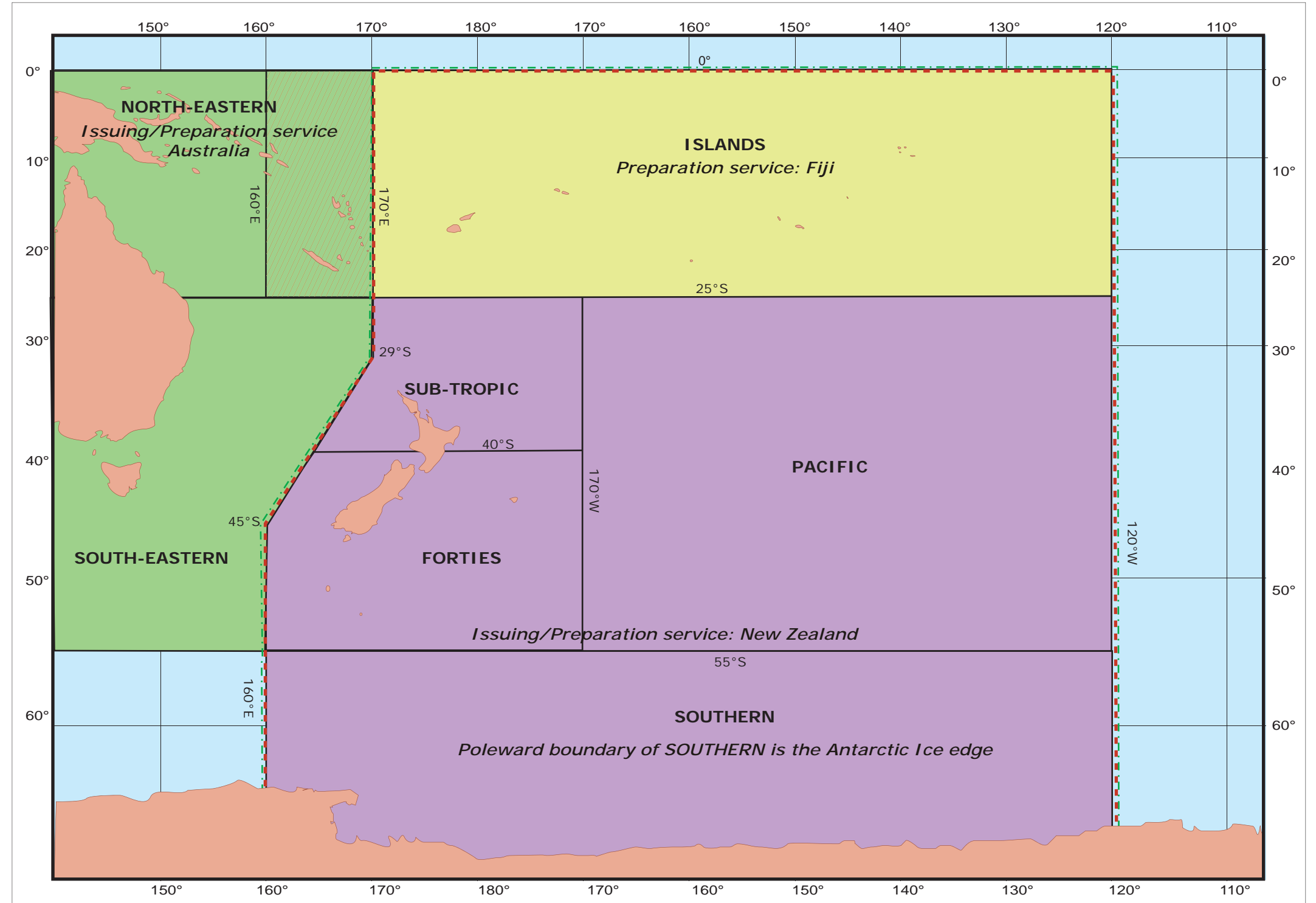
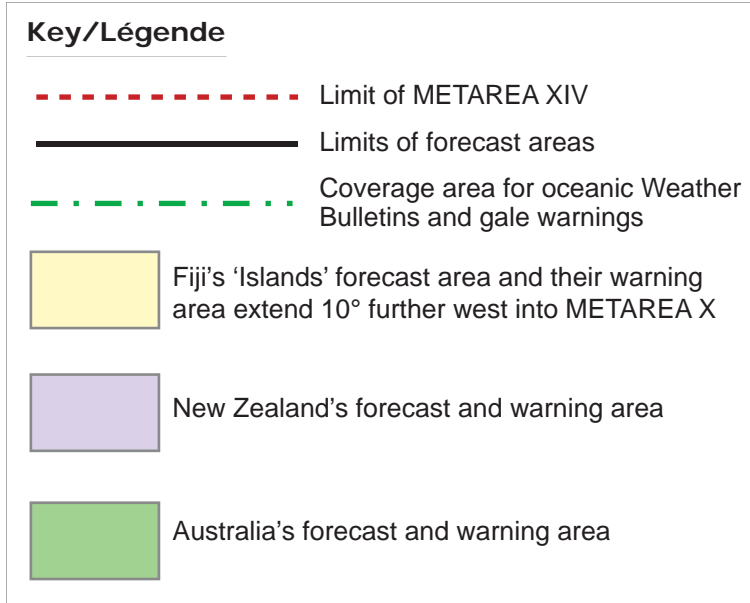


METAREA XIV

New Zealand - Nouvelle-Zélande

SafetyNET forecast areas

10 January 2018

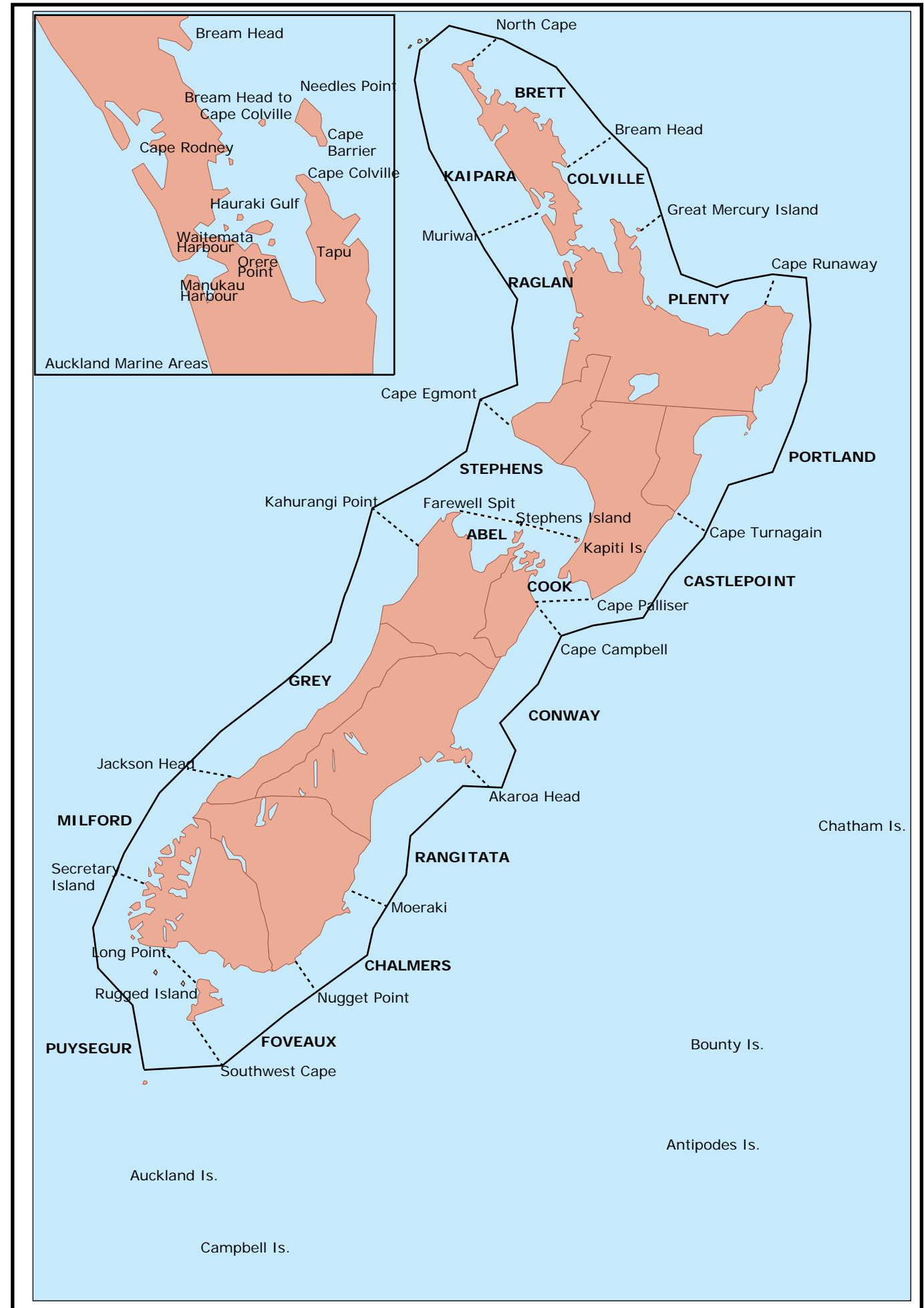


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METAREA XIV

New Zealand - Nouvelle-Zélande

Coastal Forecast Areas



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METAREA XV

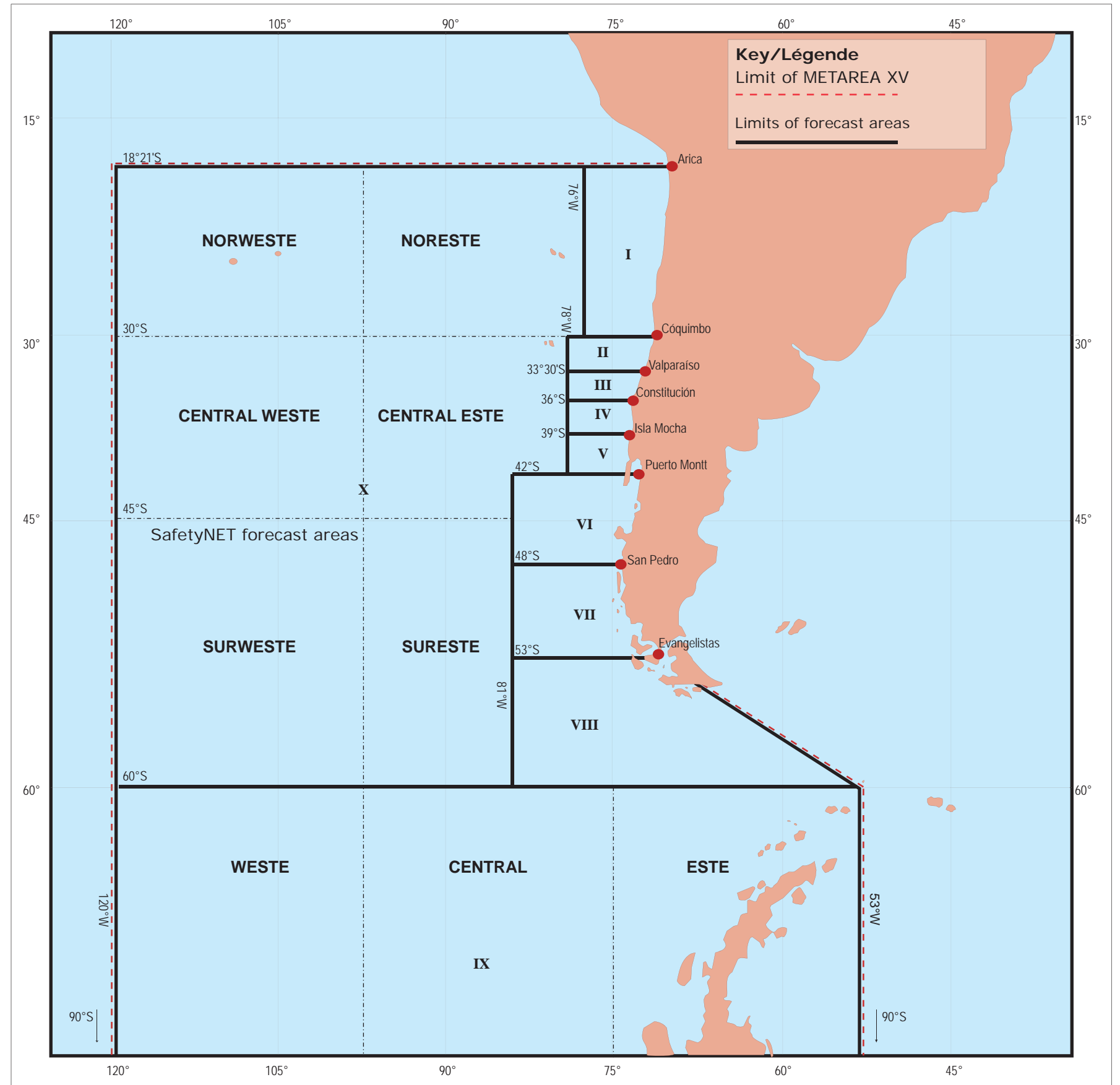
Chile - Chili

SafetyNET forecast areas

29 January 2015

METAREA XV subareas:

I	Arica to Coquimbo
II	Coquimbo to Valparaíso
III	Valparaíso to Constitución
IV	Constitución to Isla Mocha
V	Isla Mocha to Puerto Montt
VI	Puerto Montt to San Pedro
VII	San Pedro to Islotes Evangelistas
VIII	Islotes Evangelistas to 60°S
IX	From 60°S to South Pole
X	From 18°20'S to 60°S and eastern limit is western limits of Areas 1 to 8 to 120°W



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METAREA XVI

PERU -PÉROU

SafetyNET Forecasts

Peru area

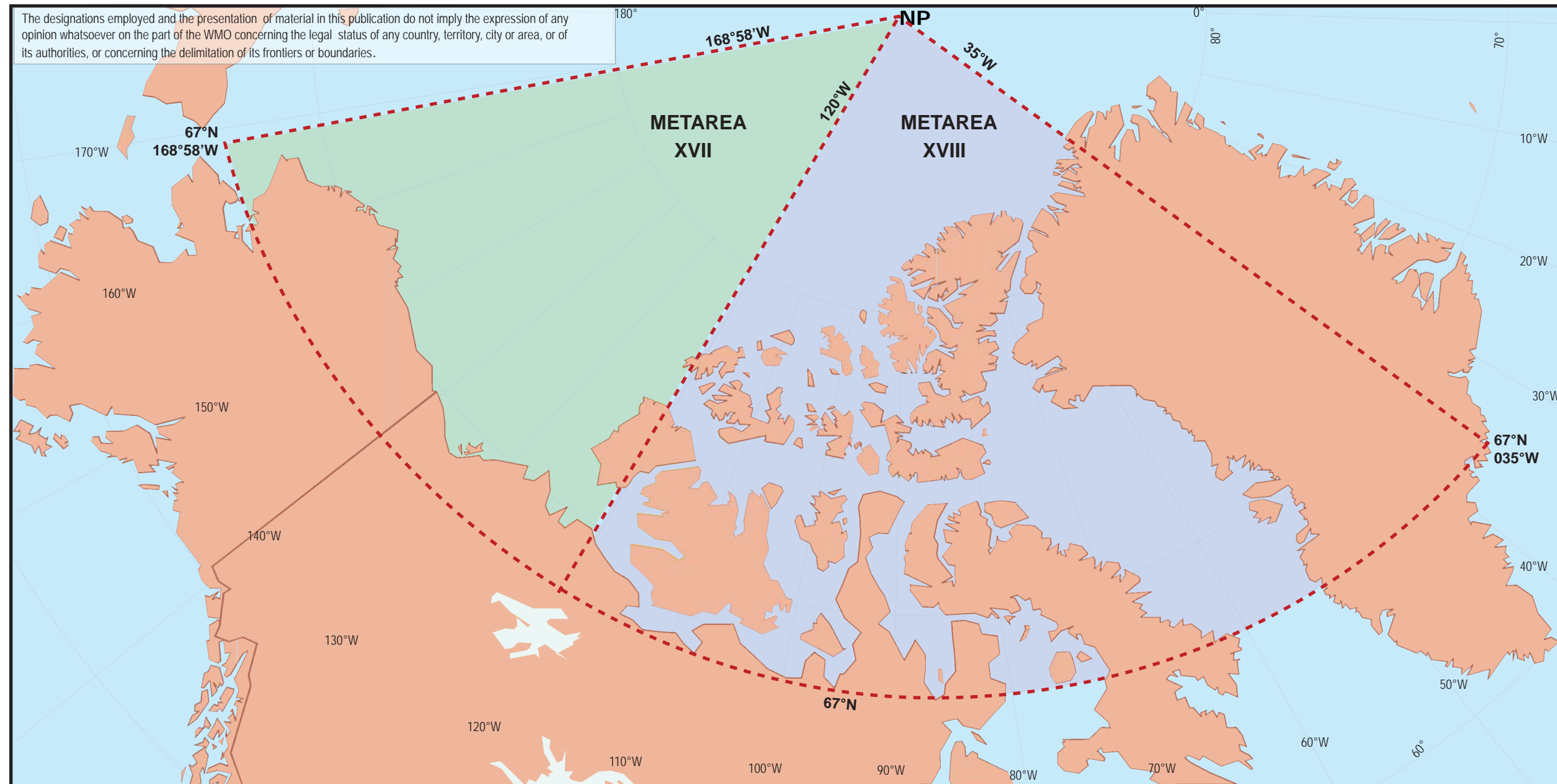


METAREA XVII and XVIII

Canada

Northern and Arctic waters

19 March 2015



METAREA XVII

Canada Western Arctic

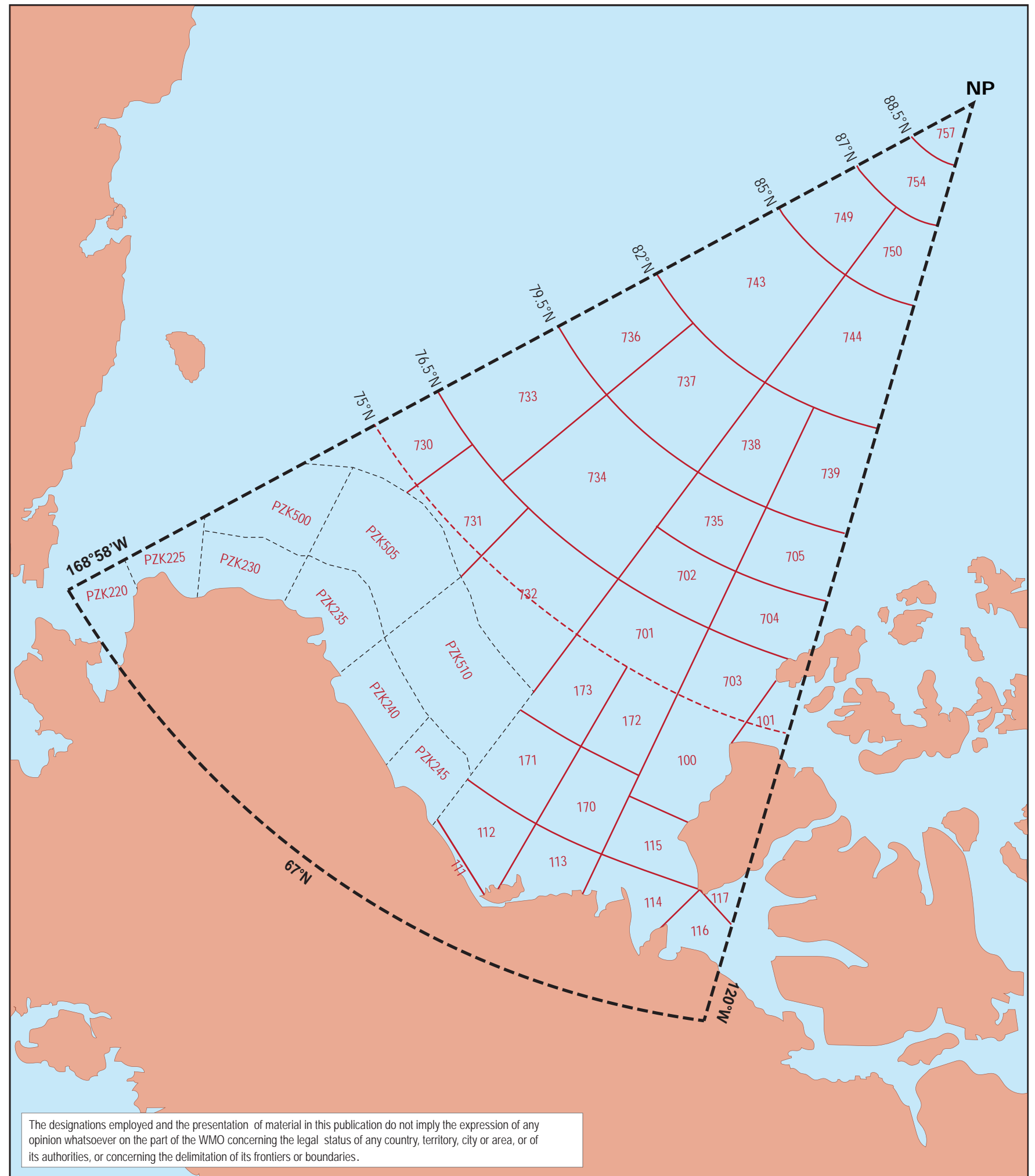
Forecast areas

19 March 2015

Key:

Limit of METAREA XVII

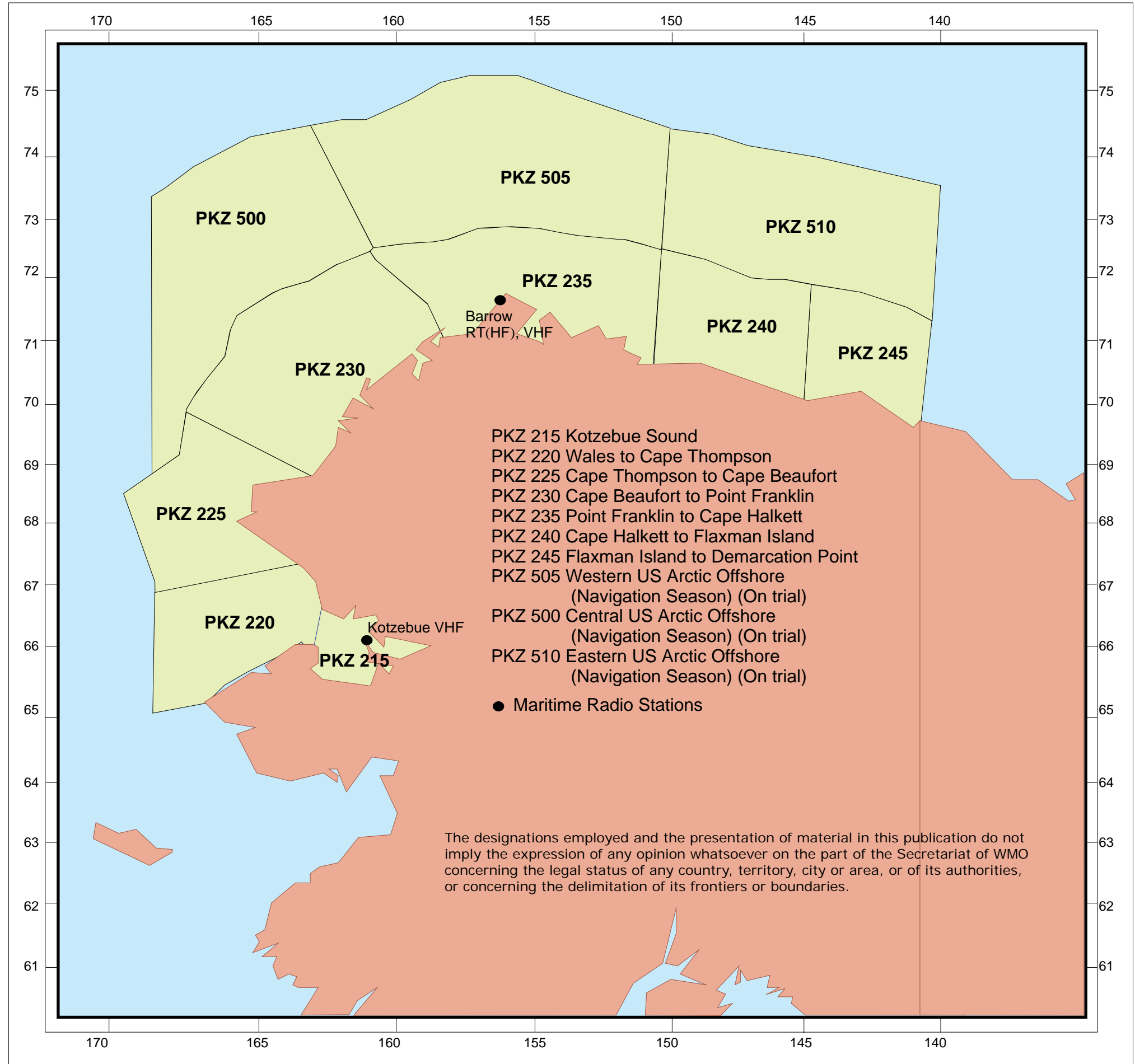
No.	Area Name
FQCN01 CWAO:	
Marine Forecasts North of 75°N	
101	McClure
701	CT4
702	CU4
703	South Prince Patrick
704	Prince Patrick
705	North Prince Patrick
730	CT1
731	CT2
732	CT3
733	CU1
734	CU2
735	CU3
736	CV1
737	CV2
738	CV3
739	CV4
743	CW1
744	CW2
749	CX1
750	CX2
754	CY1
757	CZ1
FQCN02 CWAO:	
Marine Forecasts South of 75°N	
100	Prince Alfred
101	McClure
111	Yukon Coast
112	MacKenzie
113	Tuktoyaktuk
114	Baillie
115	Banks
116	Amundsen
117	Holman
170	North Tuktoyaktuk
171	North MacKenzie
172	West Prince Alfred
173	Northwest Beaufort
730	CT1
731	CT2
732	CT3



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METAREA XVII - Sub areas

United States of America (Alaska)
 Weather Forecast Areas for Northern Alaska
 Arctic coast
 13 October 2010

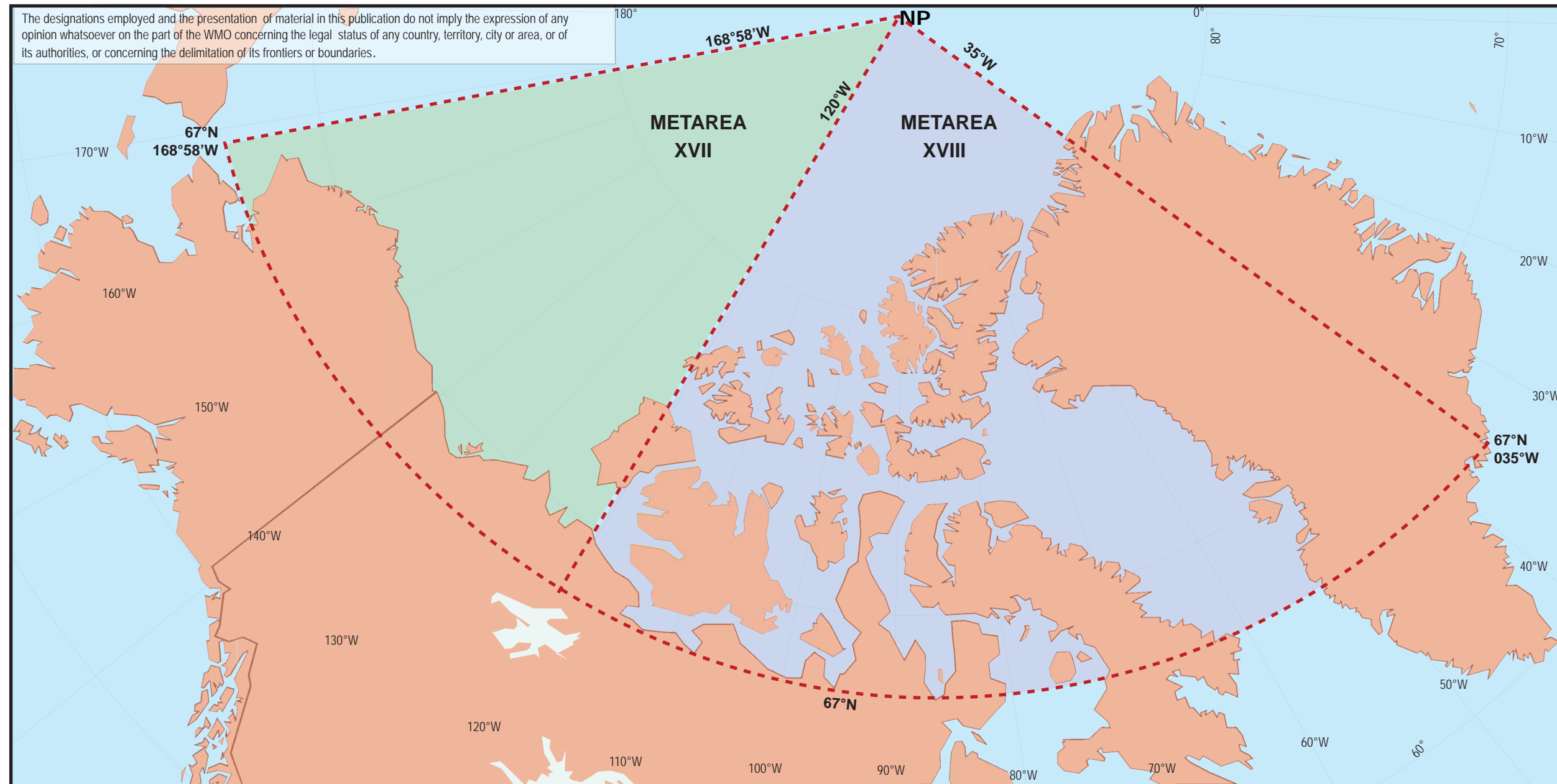


METAREA XVII and XVIII

Canada

Northern and Arctic waters

19 March 2015



METAREA XVIII

Canada

Central and Eastern Arctic

Forecast areas

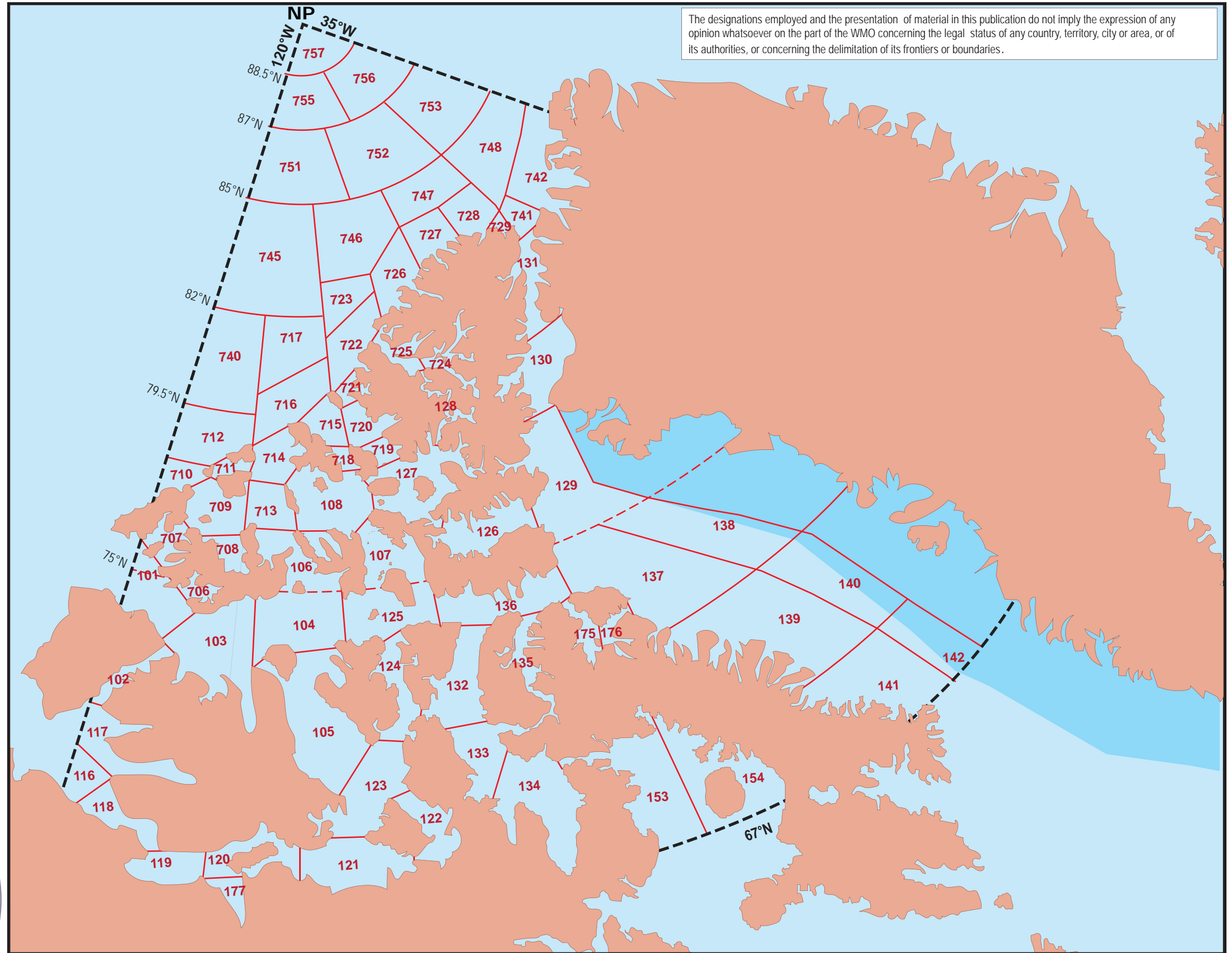
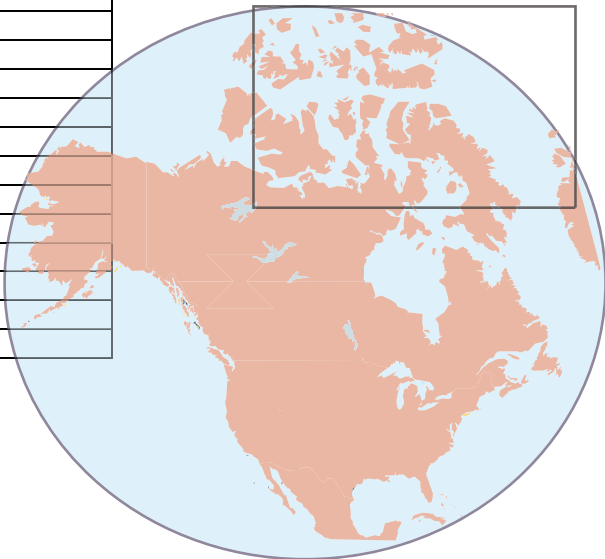
19 March 2015

Key:

Limit of METAREA XVIII

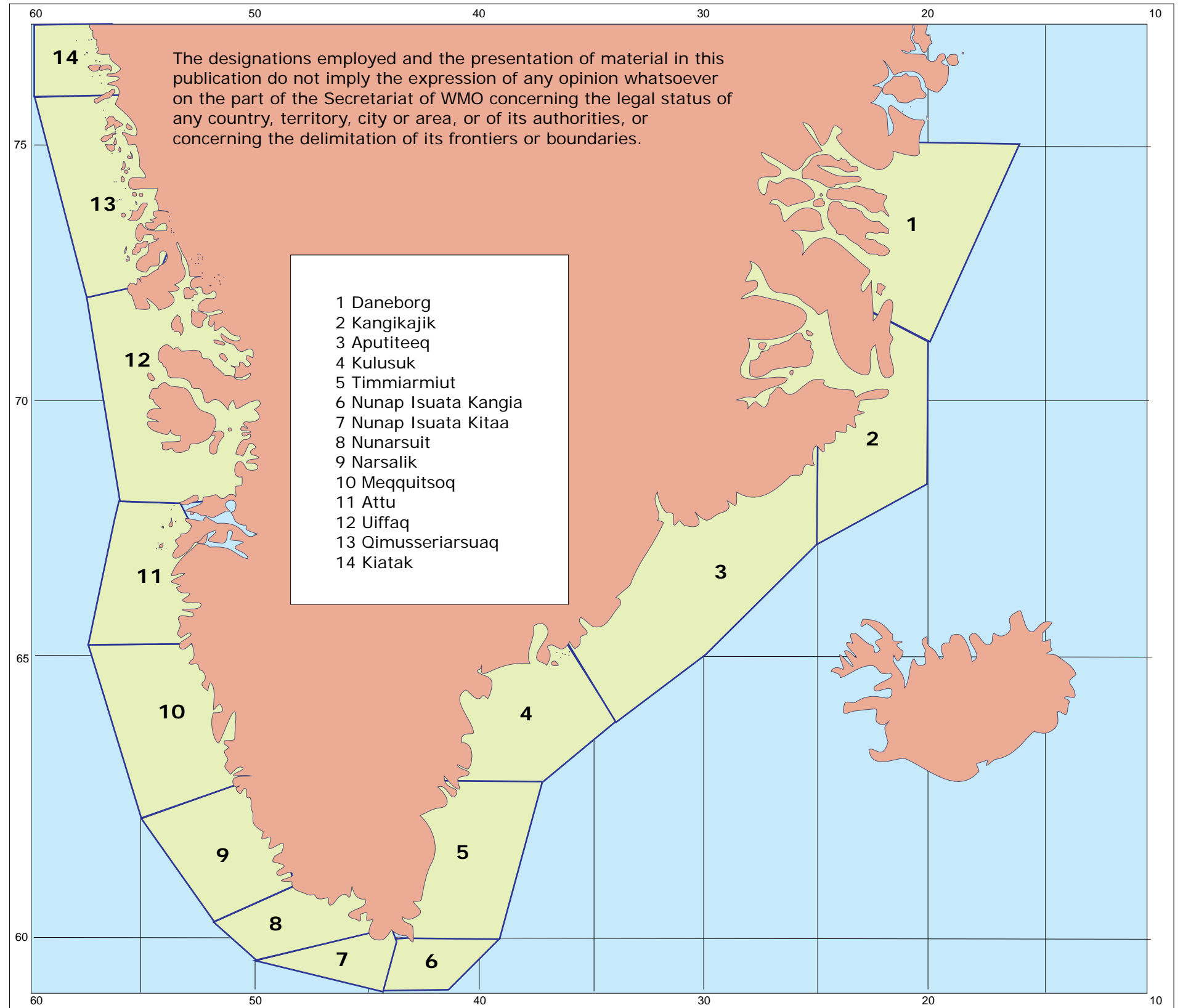
No.	Area Name
FOCN03 CWA0: Forecasts North of 75°N	
101	McClure
106	Byam
107	Queens
108	MacLean
126	Jones
127	Norwegian
128	Eureka
129	Clarence
130	Kane
131	Robeson
707	Fitzwilliam
708	Griper
709	Ballantyne
710	Brock
711	Wilkins
712	Borden
713	Hazen
714	Gustaf
715	Peary
716	South Ellef Ringnes
717	Ellef Ringnes
718	Hassel
719	Massey
720	South Sverdrup
721	North Sverdrup
722	South Axel Heiberg
723	Axel Heiberg
724	Greely
725	Nansen
726	Ellesmere
727	Ward Hunt
728	Bartlett
729	Alert
740	CV5
741	CV6
742	CV7
745	CW3
746	CW4
747	CW5
748	CW6
751	CX3
752	CX4
753	CX5
755	CY2
756	CY3
757	CZ1

No.	Area Name
FOCN04 CWA0: Forecasts South of 75°N	
101	McClure
102	Prince of Wales
103	Melville
104	Rae
105	McClintock
116	Amundsen
117	Holman
118	Dolphin
119	Coronation
120	Dease
121	Maud
122	St. Roch
123	Larsen
124	Peel
125	Barrow
132	Regent
133	Boothia
134	Committee
135	Admiralty
136	Lancaster
137	West Baffin
138	East Baffin
139	West Clyde
140	East Clyde
141	West Davis
142	East Davis
153	Igloodik
154	Prince Charles
175	Navy Board
176	Pond
177	Bathurst
706	Liddon



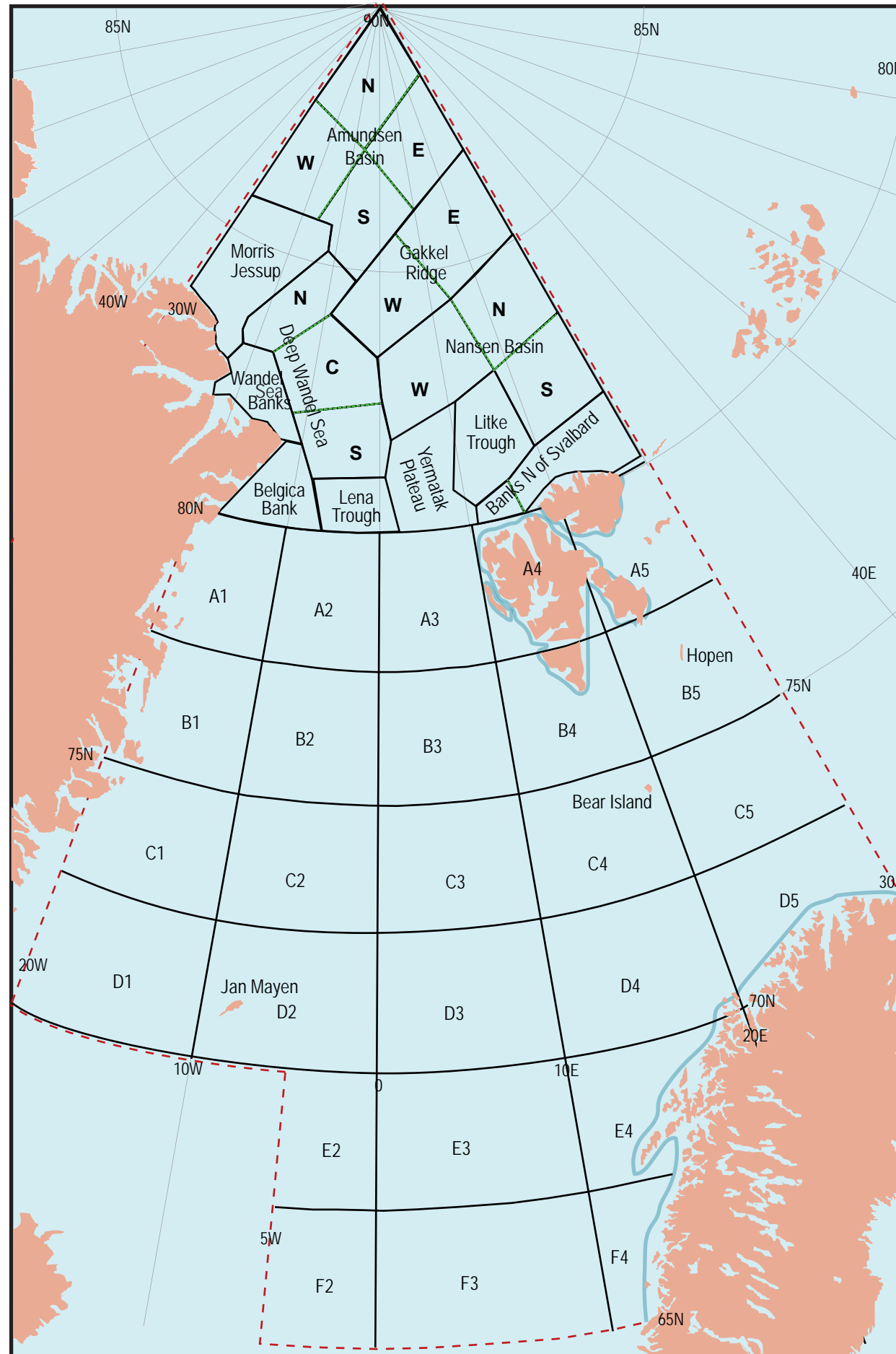
METAREA I, XVII and XVIII - Sub areas

Greenland
Weather Forecast Areas
13 October 2010



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METAREA XIX
Norway - Norvège
 SafetyNET Forecasts
 29 January 2015



Key/Légende

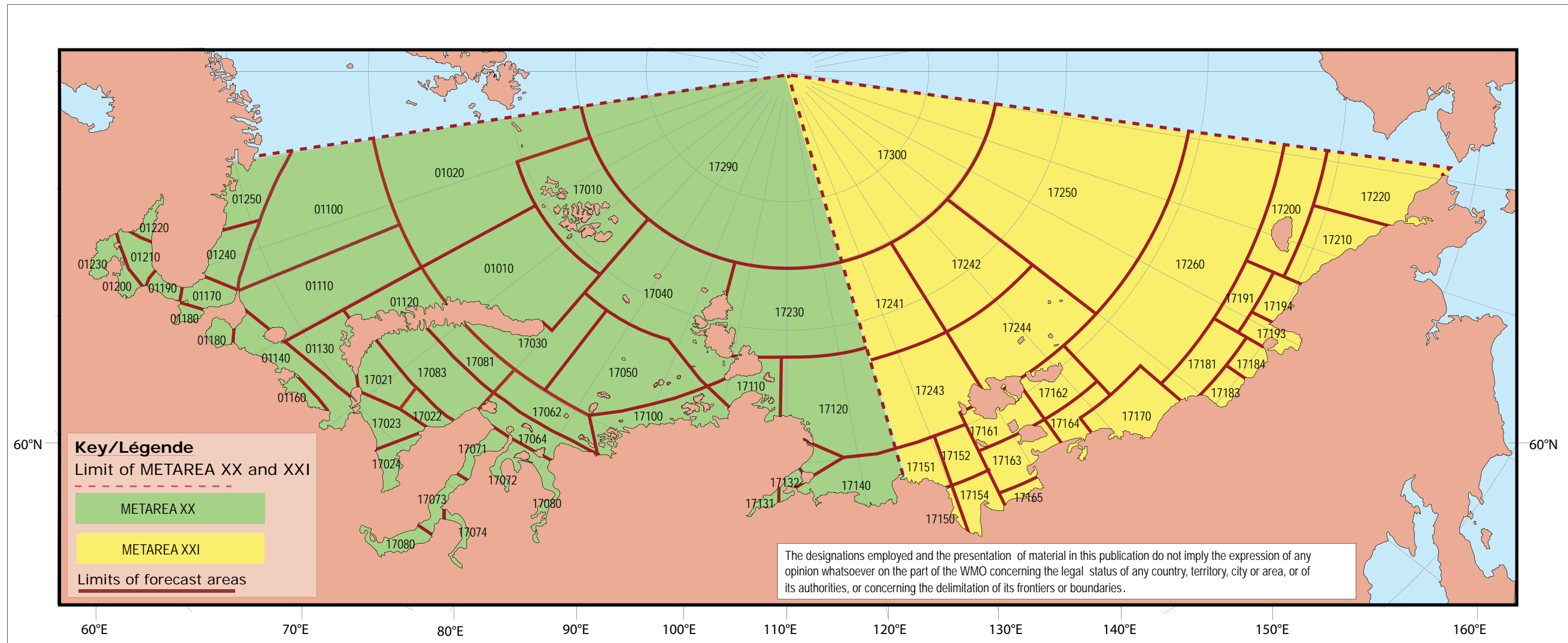
- Limit of METAREA XIX
- Limits of forecast areas
- Ice edge

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METAREA XX and XXI

Russian Federation - Fédération de Russie

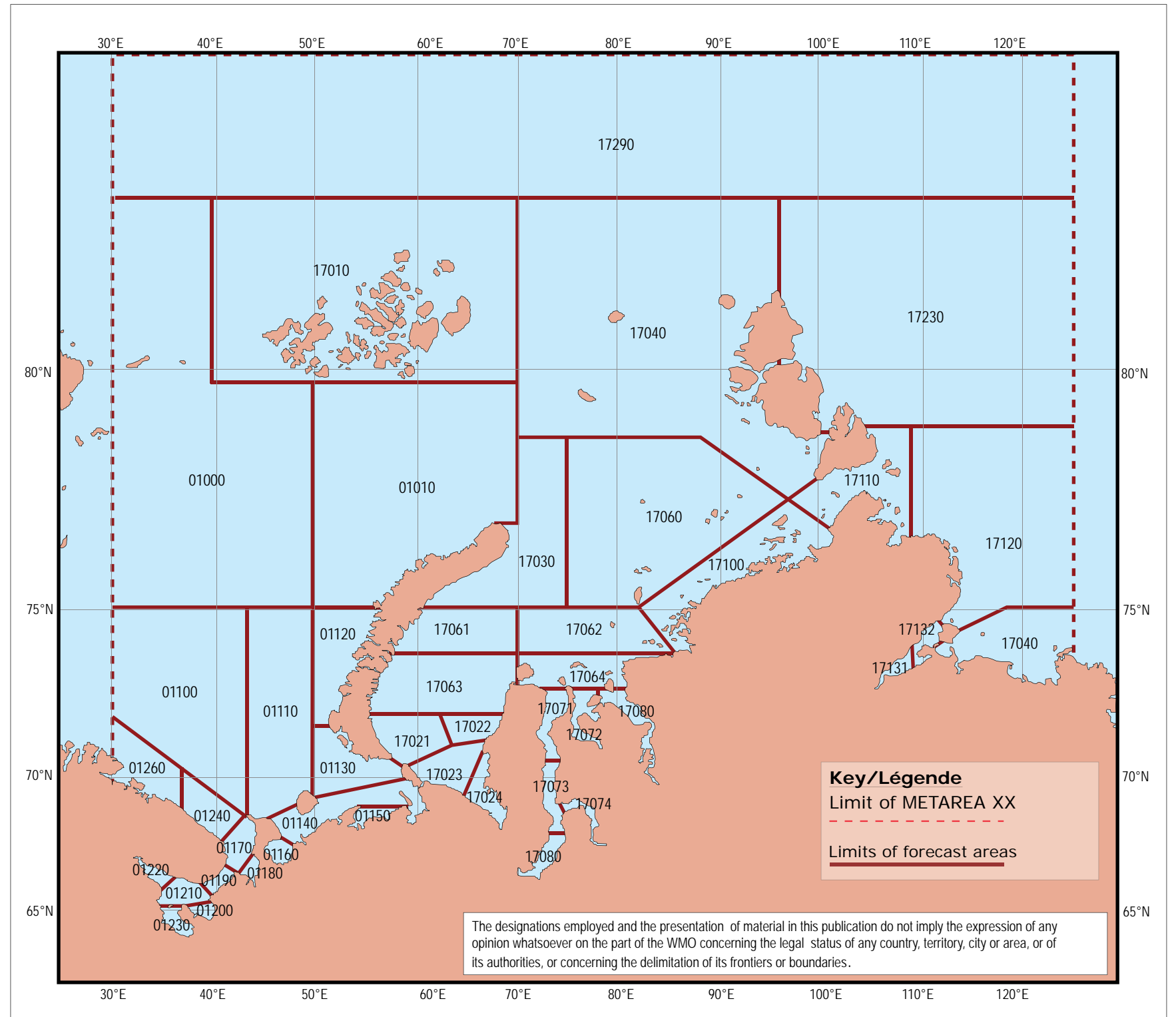
SafetyNET Forecasts



METAREA XX

Russian Federation - Fédération de Russie

SafetyNET Forecasts



PART A

SATELLITE SYSTEMS / COMMUNICATIONS

This table outlines the SafetyNet schedule for routine Met-Ocean Maritime Safety Information bulletins (forecasts and warnings). These bulletins form part of the World Meteorological Organisation's Worldwide Met-Ocean Information and Warning Service (WWMIWS).

Met-Ocean warnings may be broadcast at any time initially, with updates provided at regular intervals until they are no longer required.

The times specified are for forecasts issued for METAREA domains, otherwise a footnote is provided to indicate information about these additional services.

Transmission Schedule for SafetyNet Services

Updated: 08/09/2017

This table outlines the SafetyNet schedule for routine Met-Ocean Maritime Safety Information bulletins (forecasts and warnings). These bulletins form part of the World Meteorological Organisation's Worldwide Met-Ocean Information and Warning Service (WMMIWS).

Met-Ocean warnings may be broadcast at any time initially, with updates provided at regular intervals until they are no longer required.

The times specified are for forecasts issued for METAREA domains, otherwise a footnote is provided to indicate information about these additional services.

METAREA	Issuing Country	Ocean Region Satellite	Scheduled Broadcast (UTC)
I	United Kingdom of Great Britain and Northern Ireland	AOR (E)	0930, 2130
II	France	AOR (W) AOR (E)	1015, 2215 1015, 2215
III	Greece (1)	AOR (E)	1000, 2200
IV	Canada (Hudson Bay & Approaches) United States of America	AOR (W) AOR (W)	0300, 1500(3) 0430, 1030, 1630, 2230
V	Brazil	AOR (E)	0730,1930
VI	Argentina	AOR (W)	0230, 1730
VII	South Africa (2) (East of 20E) South Africa (West of 20E)	IOR AOR (E)	0940, 1940 0940, 1940
VIII (N)	India (North of Equator)	IOR	0900, 1800
VIII (S)	Mauritius / La Réunion (via France) (South of Equator)	IOR	0130, 1330
IX	Pakistan	IOR	0700
X	Australia	IOR POR	1030, 2330 0830, 2030 - Northern WA coast (4) 1100, 2300 0715, 1930 - Bass Strait (6) 0600, 1845 - Torres Strait 0630, 1915 - NT coast (5)
XI	China Japan (7)	IOR POR	0330, 1015, 1530, 2215 0230, 0830, 1430, 2030 - North of Equator 0815, 2015 - South of Equator
XII	United States of America	AOR (W) POR	0545, 1145, 1745, 2345 0545, 1145, 1745, 2345
XIII	Russian Federation	POR	0930, 2130
XIV	New Zealand	POR	0330, 0930, 1530, 2130 0130, 1330 - NZ coast (8)
XV	Chile	AOR (W)	0345, 1845
XVI	Peru	AOR (W)	1115, 2315
XVII	Canada	POR	0300, 1500 (3)

METAREA	Issuing Country	Ocean Region Satellite	Scheduled Broadcast (UTC)
XVIII	Canada	AOR (W)	0300, 1500 (3)
XIX	Norway	AOR (E)	1100, 2300
XX	Russian Federation	IOR	0600, 1800
XXI	Russian Federation	POR	0600, 1800

NOTES:

- (1) Scheduled bulletins and warnings for the western Mediterranean Sea are prepared by France.
- (2) Forecast for area 30°S-50°E / 50°S-80°E and tropical cyclone warnings are prepared by La Réunion.
- (3) Bulletins issued only during the shipping season.
- (4) Western Australia bulletins are Coastal Warnings and Forecasts transmitted only to SafetyNET Coastal Area F and G in METAREA X.
- (5) Northern Territory bulletins are Coastal Warnings and Forecasts transmitted only to SafetyNET Coastal Areas G and H in METAREA X.
- (6) These bulletins are coastal Warnings and Forecasts for Bass Strait transmitted only to SafetyNet coastal area D. Bass Strait schedule time will change to 1 UTC hour earlier during Australian Eastern Daylight Saving time.
- (7) Scheduled bulletins and warnings for south of the Equator prepared by Australia.
- (8) These bulletins are coastal Warnings and Forecasts for New Zealand coastal areas.

PART B

TERRESTRIAL SYSTEMS

METEOROLOGICAL BROADCASTS USING DIGITAL SELECTIVE CALLING (DSC) SYSTEM

ALGERIA**Maritime Radio Station: Alger Radio**

Region: I
Position: 36°40'N 03°18'E
Call Sign: 7TA

24-hour watch

METAREA: III**Area Covered:** North Africa and Western Mediterranean.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	161,825 MHz			36°40'N 03°18'E	H24
RT (MF)	B	1 792 kHz			36°40'N 03°18'E	H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0730, 2330	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English
0903, 1703	B	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia and Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

ALGERIA**Maritime Radio Station: Annaba Radio**

Region: I
Position: 36°54'N 07°46'E
Call Sign: 7TB

24-hour watch

METAREA: III**Area Covered:** North Africa and Western Mediterranean

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 911 kHz			36°54'N 7°46'E	H24
VHF	B	161,80 MHz			36°54'N 7°46'E	H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 2303	B	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English
0850, 1850	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

ALGERIA**Maritime Radio Station: Arzew Radio**

Region: I
Position: 35°43'N 00°18'W
Call Sign: 7TW

24-hour watch

METAREA: III**Area Covered:** North Africa and Western Mediterranean

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	161,95 MHZ				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 2303	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba Weather forecast for Algerian Coasts: Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

ALGERIA**Maritime Radio Station: Bejaia Radio****Region:** I**Position:** 36°14'N 05°06'E**Call Sign:** 7TG

08h-18h watch

METAREA: III**Area Covered:** North Africa and Western Mediterranean

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	161.90 MHz				h24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0733, 2333	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

ALGERIA**Maritime Radio Station: Ghazouet Radio**

Region: I
Position: 35°04'N 01°08'W
Call Sign: 7TE

08h-18h watch

METAREA: III**Area Covered:** North Africa and Western Mediterranean

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	162 MHz				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 2303	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coast : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

ALGERIA**Maritime Radio Station: Oran**

Region: I
Position: 35°46'N 00°33'W
Call Sign: 7TO

24-hour watch

METAREA: III**Area Covered:** North Africa and Western Mediterranean

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 735 kHz			35°46'N 0°33'W	H24
VHF	B	161,85 MHz			35°46'N 0°33'W	H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 2303	B	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English
0835, 1835	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

ALGERIA**Maritime Radio Station: Skikda Radio**

Region: I
Position: 36°24'N 06°52'E
Call Sign: 7TS

08h-18h watch

METAREA: III**Area Covered:** North Africa and Western Mediterranean

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	161,85 MHz				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 2303	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardigna, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

ALGERIA**Maritime Radio Station: Tenes Radio**

Region: I
Position: 36°30'N 01°19'E
Call Sign: 7TN

08h-18h watch

METAREA: III**Area Covered:** North Africa and Western Mediterranean

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	161,80 MHz				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0733, 2333	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coast : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

ANGOLA**Maritime Radio Station: Luanda****Region:** I**Position:** 08°48'S 13°16'E**Call Sign:** D3E

24-hour watch

METAREA: VII**Area Covered:** The area in the south Atlantic enclosed by the Greenwich meridian, 18°S and the African coast.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 291.1 kHz				
RT (HF)	A	4 143 kHz				
VHF	B	Ch 24				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0233, 0633, 1033, 1433, 1833, 2233	A, B	Navigational warnings: Navigational warnings: Local warnings.	Portuguese

ARGENTINA**Marine Rescue Co-ordination Centre: Bahía Blanca (PREFECTURA NAVAL)****Region:** III
Position: 38°43'S 62°6'W
Call Sign: L2N**METAREA:** VI**Area Covered:** South Atlantic - Atlantic area of Argentina from Claromecó to the mouth of the Río Negro (Zone III)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
FM	A	Ch 15				
	B	156.75 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 0410	A	Navigational warnings: Local navigational warnings.	Spanish
0810, 1210	B	Navigational warnings: Local navigational warnings.	Spanish, English
1610, 2010	B	Navigational warnings: Local navigational warnings.	Spanish

ARGENTINA

Marine Rescue Co-ordination Centre: Buenos Aires (PREFECTURA NAVAL)

Region: III

24-hour watch

Position: 34°27'S 58°37'W

Call Sign: L2B, L2G

METAREA: VI

Area Covered: South Atlantic

Area I: Covers the Río de la Plata, from the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay 34°58'10"S, 54°57'05"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina 36°17'38"S, 56°47'05"W), and the area of the Atlantic ocean between the two geographical points and 300 n miles out to sea.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
FM	A	4 210 kHz				
FM	B	8 416.5 kHz				
FM	C	12 579 kHz				
FM	D	16 806.5 kHz				
VHF	E	161.50 MHz				
VHF	F	156.75 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010	F	Navigational warnings.	Spanish
0410	E	Navigational warnings.	Spanish
0810, 1210	E	Navigational warnings.	Spanish, English
1000, 1900	A-C	Navigational warnings.	Spanish, English
1610, 2010	E	Navigational warnings.	Spanish
1900	D	Navigational warnings.	Spanish

ARGENTINA**Marine Rescue Co-ordination Centre: Comodoro Rivadavia (PREFECTURA NAVAL)****Region:** III**Position:** 45°51'S 67°25'W**Call Sign:** L2W, L3A, L3B

24-hour watch

METAREA: VI**Area Covered:** South Atlantic

Area I: Covers the Río de la Plata, from the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay 34°58'10"S, 54°57'05"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina 36°17'38"S, 56°47'05"W), and the area of the Atlantic ocean between the two geographical points and 300 n miles out to sea.

Area II: The Atlantic Ocean between 36°17'38"S, and 55°00'00"S.

Zone III: the Falkland Islands (Islas Malvinas)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 065 kHz				
RT (HF)	B	4 149 kHz				
RT (HF)	C	8 294 kHz				
VHF	D	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0350, 0750, 1050, 1650, 2250	D	Navigational warnings.	Spanish
0440	A	Navigational warnings.	Spanish
1740	B, C	Navigational warnings.	Spanish, English

ARGENTINA**Marine Rescue Co-ordination Centre: Delta (PREFECTURA NAVAL)****Region:** III
Position:
Call Sign: L90**METAREA:** VI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	161.775 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
H24, 00, 15, 30, 45	A	Navigational warnings.	Spanish, English

ARGENTINA**Marine Rescue Co-ordination Centre: Mar del Plata (PREFECTURA NAVAL)****Region:** III**Position:** 38°03'S 57°32'W**Call Sign:** L2T, L2U

24-hour watch

METAREA: VI**Area Covered:** South Atlantic - Atlantic area of Argentina between 36°S and the mouth of Río Negro (Zones II and III) (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 065 kHz				L2T
RT (HF)	B	4 149 kHz				L2T
RT (HF)	C	8 294 kHz				L2T
	D	156.75 MHz	L2U			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230, 0530, 1130, 1130, 1730, 2330	D	Navigational warnings.	Spanish, English
0310, 1610	A-C	Navigational warnings.	Spanish

ARGENTINA**Marine Rescue Co-ordination Centre: Puerto Madryn (PREFECTURA NAVAL)**

Region: III
Position: 42°46'S 65°02'W
Call Sign: L4S

METAREA: VI**Area Covered:** Area II - the Atlantic Ocean between 36°17'38"S, and 55°00'00"S

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	A	Navigational warnings.	Spanish

ARGENTINA**Marine Rescue Co-ordination Centre: Quequén (PREFECTURA NAVAL)**

Region: III
Position: 38°34'S 58°42'W
Call Sign: L5B

METAREA: VI**Area Covered:** Area II - the Atlantic Ocean between 36°17'38"S, and 55°00'00"S

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	A	Navigational warnings.	Spanish

ARGENTINA**Marine Rescue Co-ordination Centre: Rawson (PREFECTURA NAVAL)**

Region: III
Position: 43°20'S 65°03'W
Call Sign: L4R

METAREA: VI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	A	Navigational warnings.	Spanish, English

ARGENTINA**Marine Rescue Co-ordination Centre: Recalada Río de la Plata (PREFECTURA NAVAL)****Region:** III
Position: 35°10'S 56°19'W
Call Sign: L3Z**METAREA:** VI**Area Covered:** Area II - the Atlantic Ocean between 36°17'38"S, and 55°00'00"S

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0040, 0440, 0840, 1240, 1640, 2040	A	Navigational warnings.	Spanish

ARGENTINA**Marine Rescue Co-ordination Centre: Rio Gallegos (PREFECTURA NAVAL)****Region:** III**Position:** 51°37'S 69°03'W**Call Sign:** --

24-hour watch

METAREA: VI**Area Covered:** South Atlantic - Area II - the Atlantic Ocean between 36°17'38"S, and 55°00'00"S

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	A	Local weather bulletin. Navigational warnings: Local navigational warnings and water level reports.	Spanish

ARGENTINA**Marine Rescue Co-ordination Centre: San Antonio Oeste (PREFECTURA NAVAL)****Region:** III
Position: 40°50'S 64°54'W
Call Sign: L4V, L3I**METAREA:** VI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	A	Navigational warnings.	Spanish

ARGENTINA**Marine Rescue Co-ordination Centre: Ushuaia (PREFECTURA NAVAL)****Region:** III
Position: 54°48'S 68°18'W
Call Sign: L3P

24-hour watch

METAREA: VI**Area Covered:** South Atlantic - Atlantic area of Argentina from Faro Cabo Guardián to Ushuaia

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	A		

ASCENSION ISLAND**Maritime Radio Station: RAF VOLMET****Region:** I**Position:****Call Sign:** --**METAREA:** VII**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	5 450 kHz		Ascension Island	07°58'S 14°24'W	
RT (HF)	B	11 253 kHz		Ascension Island	07°58'S 14°24'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every H+19, H+49	A	Weather bulletins.	
Every H+19, H+49	A, B	Volmet is a meteorological service provided for aviation which continuously broadcasts reports of actual weather conditions and / or weather forecasts for selected airfields on HF SSB. The information given consists of: airport name, wind direction and speed, visibility, cloud amount and height, air temperature and dew point temperature, sea level pressure and any significant weather. If no updated weather report arrives within one hour of the last report the a 'NO REPORT' is transmitted.	

AUSTRALIA**Maritime Radio Station: Charleville (Queensland)**

Region: V
Position:
Call Sign: VMC

METAREA: X

Area Covered: Northern, North Eastern and South Eastern high seas areas. Coastal waters zones for Queensland, New South Wales, Victoria and Tasmania.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	2 201 kHz(3)				
RT (HF)	B	4 426 kHz(4)				
RT (HF)	C	6 507 kHz(3)				
RT (HF)	D	8 176 kHz				
RT (HF)	E	12 365 kHz				
RT (HF)	F	16 546 kHz(4)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every 4 hours on the half hour (2)	A-F	Forecasts and coastal weather observations.	English
Hourly (1)	A-F	Strong wind/gale/storm/hurricane warnings.	English

NOTE:

VMC broadcasts on four frequencies simultaneously, refer to footnotes (3) and (4).

Web link: <http://www.bom.gov.au/marine/radio-sat/marine-radio-sat.shtml>

- (1) Warnings are broadcast on the hour every hour.
- (2) Forecasts and coastal reports are broadcast on the half hour for the areas above using a program which is repeated every 4 hours.
- (3) Frequency used during night hours only (6pm-7am Eastern Standard Time).
- (4) Frequency used during day hours only (7am-6pm Eastern Standard Time).

AUSTRALIA

Maritime Radio Station: Wiluna (Western Australia)

Region: V

Position:

Call Sign: VMW

METAREA: X

Area Covered: Northern and Western high seas areas. Coastal waters zones for Queensland Gulf, South Australia, Western Australia and Northern Territory.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	2 056 kHz(3)				
RT (HF)	B	4 149 kHz(4)				
RT (HF)	C	6 230 kHz(3)				
RT (HF)	D	8 113 kHz				
RT (HF)	E	12 362 kHz				
RT (HF)	F	16 528 kHz(4)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every 4 hours on the half hour (2)	B-F	Forecasts and coastal weather observations.	English
Hourly (1)	A	Strong wind/gale/storm/hurricane warnings.	English

NOTE:

VMW broadcasts on four frequencies simultaneously, refer to footnotes (3) and (4).

Web link: <http://www.bom.gov.au/marine/radio-sat/marine-radio-sat.shtml>

- (1) Warnings are broadcast on the hour every hour.
- (2) Forecasts and coastal reports are broadcast on the half hour for the areas above using a program which is repeated every 4 hours.
- (3) Frequency used during night hours only (6pm-7am Eastern Standard Time).
- (4) Frequency used during day hours only (7am-6pm Eastern Standard Time).

BANGLADESH**Maritime Radio Station: Chittagong**

Region: II
Position: 22°20'N 92°00'E
Call Sign: S3D

24-hour watch

METAREA: VIII(N)**Area Covered:** Sea area in the Bay of Bengal north of latitude 18°N.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 182 kHz			22°20'N 92°00'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0050	A	Issued in the event of disturbed weather or when a depression has formed for N Bay of Bengal, (NW and NE).	English
0450, 1250, 2050	A	Storm warnings on development of a cyclonic storm for N Bay of Bengal (NW and NE) General inference.	English
0850, 1650	A	General inference, forecast for N Bay of Bengal, (NW and NE).	English
On receipt	A	Storm warnings issued in the event of the unexpected development of a cyclonic storm for N Bay of Bengal, (NW and NE).	English

BARBADOS**Marine Rescue Co-ordination Centre: Barbados Coast Guard (MRSC)****Region:** IV
Position: 13°05'N 59°37'W
Call Sign: 8PO

24-hour watch

METAREA: IV**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0050, 1250, 1650, 2050	A	Storm warnings for Caribbean Sea, Antilles and adjacent Atlantic waters.	English

BELGIUM**Maritime Radio Station: Antwerpen Radio**

Region: VI
Position: 51°13'N 04°19'E
Call Sign: OSW

24-hour watch

METAREA: I**Area Covered:** Maritime portion of the Schelde

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 24			51°13'N 4°19'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt Every odd H+05	A	Storm warnings for the Schelde.	English, Dutch
On receipt H+03, H+48	A	Strong wind warnings for small craft when wind speed is expected to reach Beaufort Force 6 for the Schelde. Navigational warnings: For the Schelde.	English, Dutch

BELGIUM**Maritime Radio Station: Oostende Radio**

Region: VI
Position: 51°11'N 02°48'E
Call Sign: OST

24-hour watch

METAREA: I**Area Covered:** N.Sea/Gulf of Bothania/Finland - Coasts of Belgium and those of Sea Areas Thames and Dover

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 761 kHz			51°11'N 2°48'E	
VHF	B	Ch 27			51°11'N 2°48'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0503, 0903, 1303, 1703, 2103	A,B	Storm warnings: Strong breeze warnings for Dover, Thames. Navigational warnings: Ice reports in English for Netherlands Areas Group GG.	English, Dutch
0233, 0633, 1033, 1433, 1833, 2233	A		English, Dutch
0820, 1720	A,B	Strong wind warnings and forecast for Dover, Thames.	English, Dutch
On receipt	A,B	Storm warnings and strong wind warnings for areas Dover, Thames.	English, Dutch

BENIN**Maritime Radio Station: Cotonou****Region:** I**Position:** 06°28'N 02°21'E**Call Sign:** TYA

H12 (0700-1900UTC)

METAREA: II**Area Covered:** Cotonou roads

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 813 kHz			6°28'N 2°21'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0818, 1218, 1718	A	Navigational warnings: For Coastal waters of Benin.	French
1003, 1603	A	Forecasts for Cotonou Roads.	French

BERMUDA**Marine Rescue Co-ordination Centre: Bermuda Harbour****Region:** IV
Position: 32°23'N 64°41'W
Call Sign: ZBM

H24

METAREA: IV**Area Covered:** Carribean Sea - Bermuda local area and Western North Atlantic area

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 27(1)				
RT (MF)	A	2 582 kHz(1)				
VHF	B	Ch WX2				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0035, 0435, 0835, 1235, 1635, 2035	A	Latest urgent weather and local Bermuda area forecast. Tropical weather advisories for 18°N to 42°N and 50°W to 80°W (1 June to 30 November). Navigational warnings: Local inshore and offshore warnings.	
Continuous broadcast	B	Recorded voice, weather information for the coastal waters around Bermuda and US National Hurricane Center Tropical Advisories and Tropical Weather Outlook (1 June to 30 November). Broadcasts are repeated every 4-6 minutes and recordings are updated at 0000, 0600 and 1200 and 1800 LT as required.	

NOTE:

Available on request - Latest US National Weather Service High Seas forecast for METAREA IV, N of 7°N to 67°N and W of 35°W and US NWS.

(1) After announcement on VHF Ch 116 and RT (MF) 2 182 kHz.

BRAZIL**Maritime Radio Station: Belém****Region:** III
Position: 01°25'S 48°26'W
Call Sign: PPL**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0603, 1003, 1203, 1503, 2103	A	Synopsis, forecast for approaches to Belém. Navigational warnings: NAVAREA V warnings. Coastal warnings and local warnings for the Brazilian coast north west of Parnaíba (in Portuguese only).	Portuguese, English

Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm

BRAZIL**Maritime Radio Station: Junção****Region:** III**Position:****Call Sign:** PPJ**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 381 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0603, 1003, 1203, 1503, 2103	A	Synopsis and forecast for the approaches to Recife and Salvador. Navigational warnings: NAVAREA V warnings. Coastal warnings and local warnings for the Brazilian coast from Porto de Ilhéus to Parnaíba (in Portuguese only).	Portuguese, English

Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm

BRAZIL**Maritime Radio Station: Olinda****Region:** III**Position:****Call Sign:** --**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 369 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0603, 1003, 1203, 1503, 2103	A	Synopsis and forecast for the approaches to Recife and Salvador. Navigational warnings: NAVAREA V warnings. Coastal warnings and local warnings ifor the Brazilian coast from Porto de Ilhéus to Parnaíba (in Portuguese only).	Portuguese, English

Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm

BRAZIL**Maritime Radio Station: Ponta do Céu****Region:** III**Position:****Call Sign:** --**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000, 1200, 1800 On request	A	Navigational warnings: Local navigational warnings for Río Amazonas.	

Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm

BRAZIL**Maritime Radio Station: Río**

Region: III
Position: 22°58'S 43°40'W
Call Sign: PPR

Station keeping a watch for at least 30 minutes: beginning at 00, 06, 12, 18 UTC daily. A watch is also kept for at least 30 minutes at the beginning of the nearest "single operator period following the standard synoptic hours

METAREA: V

Area Covered: Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	13 137 kHz				H24
RT (HF)	A	4 381 kHz				H24
RT (HF)	A	4 402 kHz				H24
RT (HF)	A	4 411 kHz				H24
RT (HF)	A	4 417 kHz				H24
RT (HF)	A	8 773 kHz				H24
RT (HF)	A	8 779 kHz				H24
RT (HF)	A	8 782 kHz				H24
RT (HF)	A	8 800 kHz				H24
RT (HF)	A	8 806 kHz				H24
RT (HF)	A	4 366 kHz				H24
RT (HF)	A	13 131 kHz				H24
RT (HF)	A	17 272 kHz				H24
RT (HF)	A	17 278 kHz				H24
RT (HF)	A	17 302 kHz				H24
RT (HF)	A	17 386 kHz				H24
RT (HF)	A	22 756 kHz				H24
RT (HF)	A	22 807 kHz				H24
RT (HF)	A	22 822 kHz				H24
RT (HF)	A	22 831 kHz				H24
RT (HF)	A	22 843 kHz				H24
RT (HF)	A	22 846 kHz				H24
RT (HF)	A	13 116 kHz				H24
VHF	B	Ch 06 08 16 23 24				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A, B	Severe weather warnings.	Portuguese, English
On request	A, B	Synopsis and forecast for all Areas. Navigational warnings: Coastal warnings. Local warnings for the Brazilian coast (in Portuguese only).	Portuguese, English

Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm

BRAZIL**Marine Rescue Co-ordination Centre: Rio de Janeiro Naval****Region:** III
Position:
Call Sign: PWZ33**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
Radio-data (J2D)	A	16 974 kHz				
Radio-data (J2D)	A	12 709 kHz				
Radio-data (J2D)	A	8 580 kHz				
Radio-data (J2D)	A	6 448 kHz				
Radio-data (J2D)	A	4 266 kHz(1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230	A	Weather bulletins.	
1430	A	Navigational warnings: NAVAREA V warnings. Coastal warnings. Local warnings in Portuguese only.	Portuguese, English

Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm

(1) On request.

BULGARIA**Maritime Radio Station: Varna Radio**

Region: VI
Position: 43°04'N 27°46'E
Call Sign: LZW

H24

METAREA: III**Area Covered:** Mediterranean Sea/Black Sea - Coastal waters of Bulgaria and region of Black Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	3 740 kHz (1)			43°04'N 27°46'E	
VHF	B	Ch 26 (3)		Varna	43°15'N 27°57'E	
VHF	B	Ch 26 (3)		Peak Kitka	42°18'N 27°45'E	
VHF	B	Ch 26 (3)		Cape Kaliakra	42°43'N 27°52'E	
VHF	B	Ch 26 (3)		Cape Emine	42°43'N 27°52'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1903	A	Storm warnings, weather summary, 12 hour forecast for coastal waters of Bulgaria and central western region of Black Sea, Area 2. Navigational warnings: For central part of western region of Black Sea, Area 2.	
0733, 1933	B	Storm warnings, weather summary, 12 hour forecast for coastal waters of Bulgaria and central western region of Black Sea, Area 2. In Bulgarian and English. Navigational warnings: For central part of western region of Black Sea, Area 2.	
1303	A	Observations from stations at Shabla, Cap Kaliakra, Varna, Cap Emine, Bourgas and Ahtopol.	Bulgarian, English
1333	B	Observations from stations at Shabla, Cap Kaliakra, Varna, Cap Emine, Bourgas and Ahtopol.	
On receipt	A,B	Storm and gale warnings. Navigational warnings: For central part of western region of Black Sea, Area 2.	Bulgarian, English

(1) After prior announcement on DSC 2187.5 kHz.

(2) After prior announcement on DSC 4207.5 kHz.

(3) After prior announcement on DSC CH 70 and Ch 16.

CANADA

Marine Rescue Co-ordination Centre: Churchill (CCG)

Region: IV
Position:
Call Sign: --

METAREA: IV
Area Covered: Arctic coast, Atlantic Coast and S. Lawrence River

Note: Remotely controlled from station Thunder Bay.

CANADA

Marine Rescue Co-ordination Centre: Comox (CCG)

24-hour watch

Region: IV
Position: 49°45'N 124°57'W
Call Sign: VAC

METAREA: XII

Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	WX1		Alert Bay	50°35'N 126°55'W	
VHF	A	WX3		Port Hardy	50°42'N 127°42'W	
VHF	B	Ch 21B		Texada Island	49°42'N 124°26'W	
VHF	B	Ch 21B		Cape Lazo	49°42'N 124°52'W	
VHF	B	Ch 21B		Discovery Mt.	50°19'N 125°22'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast (North) (interrupted during live broadcasts)	A	Synopsis and forecast for areas 5, 6, 11-15. Reports from stations: 1. Local and Lt Ho Weather reports from: (a) McInnes Island; (b) Addenbroke Island; (c) Egg Island; (d) Pine Island; (e) Scarlett Point; (f) Pultney Point; (g) Chatham Point; (h) Cape Scott; (i) Quatsino. 2. Automated Weather Reports from: (a) Fanny Island; (b) Herbert Island; (c) Cathedral Point; (d) Sartine Island; (e) Cape S. James; (f) Solander Island. 3. Ocean buoy Reports from: (a) South Hecate Strait; (b) South Moresby; (c) East Dellwood; (d) West Sea Otter; (e) South Brooks.	
Continuous broadcast (South) (interrupted during live broadcasts)	B	Synopsis and forecast for areas 11-13. Reports from stations: 1. Local and Lt Ho Weather reports from: (a) Cape Lazo; (b) Chatham Point; (c) Cape Mudge; (d) Chrome Island; (e) Merry Island; (f) Entrance Island. 2. Automated Weather Reports from: (a) Fanny Island; (b) Grief Point; (c) Sisters Islet; (d) Ballenas Island; (e) Entrance Island. 3. Ocean buoy Reports from: (a) Sentry Shoal; (b) Halibut Bank.	
Continuous broadcast (South) (interrupted during live broadcasts) 0420, 1520, 2120	A, B	For West coast of Vancouver Island (N of Lawn Point - 50°20'N 127°58'W), Hecate Strait, Queen Charlotte Sound, Queen Charlotte Strait, Johnstone Strait, Centra Coast and Strait of Georgia.	

CANADA**Marine Rescue Co-ordination Centre: Halifax (CCG)**

24-hour watch

Region: IV
Position: 44°28'N 63°37'W
Call Sign: VCS

METAREA: IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 749 kHz		Sambro	44°28'N 63°37'W	
VHF	B	Ch 21B		Sambro	44°28'N 63°37'W	
VHF	B	Ch 83B		Sable Island	43°56'N 60°01'W	
VHF	B	Ch 21B		Fox Island	45°20'N 61°05'W	
VHF	B	Ch 83B		Ecum Secum	44°58'N 62°09'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0240, 0810, 1540, 2010	A	Weather synopsis, forecast and Sea state forecast for Areas 203-214.	
0240, 1110, 1540	B	Navigational warnings: Notices revising the position of every reported offshore exploration and exploitation vessel.	
0240, 1540	A	Navigational warnings: Notices to shipping for south coast of Nova Scotia area.	
0240, 1540 Continuous broadcast (interrupted during live broadcasts)	B	Weather synopsis, forecast and Sea state forecast for Areas 203-214.	
0810, 2010	A	Navigational warnings: Notices to fishermen (when available).	
Continuous broadcast (interrupted during live broadcasts)	B	Navigational warnings: Notices to fishermen (when available).	

CANADA**Marine Rescue Co-ordination Centre: Inuvik (CCG)**

24-hour watch

Region: IV
Position: 68°19'N 133°35'W
Call Sign: VFA

METAREA: IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 558 kHz		Kuqłuktuk (2)	67°50'N 115°07'W	
RT (HF)	B	4 363 kHz		Cambridge Bay (3)	69°07'N 105°01'W	
RT (HF)	C	6218.6 kHz		Inuvik(1)	68°19'N133°35'W	
VHF	D	Ch 26		Parsons Lake (1)	68°54'N 133°56'W	
VHF	D	Ch 26		Kuqłuktuk (2)	67°50'N 115°07'W	
VHF	D	Ch 26		Cambridge Bay (3)	69°07'N 105°01'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0235, 1435	A-D	Weather forecasts for Areas 111-116 and 118-121. Alaska marine forecast. Navigational warnings: Notices to shipping for Canadian waters west of 90°W.	
0235, 1435 On request	A-D	Navigational warnings: Ice information for areas 1 and 2.	
On request	A-D	Synopsis for Western Arctic waters.	

(1) Operational 15 May to 31 October approximately.

(2) Operational 10 July to 10 October approximately.

(3) Operational 15 July to 10 October approximately.

CANADA

Marine Rescue Co-ordination Centre: Iqaluit (CCG)

24-hour watch

Region: IV
Position: 63°44'N 68°33'W
Call Sign: VFF

METAREA: XVIII

Area Covered: Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 514 kHz		Coral Harbour (1)	64°09'N 83°22'W	
RT (MF)	B	2 514 kHz		Killinek (2)	60°25'N 64°50'W	
RT (HF)	C	2 582 kHz		Iqaluit (3)	63°44'N 68°33'W	
RT (HF)	D	2 582 kHz		Resolute (1)	74°45'N 94°58'W	
RT (HF)	E	4 363 kHz		Resolute (1)	74°45'N 94°58'W	
RT (HF)	F	4 363 kHz		Iqaluit (3)	63°44'N 68°33'W	
RT (HF)	G	6 507 kHz		Iqaluit (3)	63°44'N 68°33'W	
RT (HF)	H	6 513 kHz		Coral Harbour (1)	64°09'N 83°22'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110-1320	A-H	Synopsis and forecasts for Areas 150, 155, 156, 162, 311 and 312 and for Areas 151-154, 159-161, 163, 164 and 310 on request. Navigational warnings: For all NORDREG waters east of 106°W and southward along the Labrador coast to 58°N.	
1240, 2310	C, F	Synopsis and forecasts for Areas 125 and 135-138 and forecasts and summaries for other areas on request.	
1340, 2235	B, D, E, G	Synopsis and forecasts for Areas 139-142, 144-149 and 228-230 and for areas 137, 138, 143 and 150 on request. Navigational warnings: Notices to fishermen when available.	
1705	A-H	Navigational warnings: Ice boundary information for Areas 3-8. Other bulletins on request.	

- (1) Operational 15 July to 31 October approximately.
- (2) Operational 25 June to 31 October approximately.
- (3) Operational 25 June to 30 November approximately.

CANADA**Marine Rescue Co-ordination Centre: Labrador (CCG)****Region:** IV
Position: 53°18'N 60°33'W
Call Sign: VOK

24-hour watch

METAREA: IV**Area Covered:** North Atlantic to Barents Sea - Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 598 kHz		Hopedale	55°27'N 60°13'W	
RT (MF)	A	2 598 kHz		Cartwright	53°42'N 57°01'W	
RT (MF)	B	Ch 83B		Nain	56°33'N 61°43'W	
RT (MF)	B	Ch 21B		Hopedale	55°27'N 60°13'W	
RT (MF)	B	Ch 21B		Goose Bay	53°18'N 60°33'W	
RT (MF)	B	Ch 83B		Cartwright	53°44'N 56°58'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0137, 1007	A	Weather synopsis, forecasts and sea state forecasts for Areas 222-230.	
0137, 1007, 1437, 2037	A	Navigational warnings: Ice edge and conditions for Areas 7 and 8.	
1107, 2307	A	Navigational warnings: Notices to shipping. Notices to fishermen (when available).	
1437, 2037	A	Weather synopsis, forecasts for Areas 222-230.	
Continuous broadcast	B	Navigational warnings: Ice edge and conditions for Areas 7 and 8.	
Continuous broadcast	B	Navigational warnings: Notices to shipping. Notices to fishermen (when available).	
Continuous broadcast	B	Weather synopsis, forecast and sea state forecast for Areas 222-228. Actual Weather Observations (when available) for the following stations: (a) Goose Bay; (b) Cartwright; (c) Makkovik; (d) Hopedale; (e) Nain; (f) Mary's Harbour.	

CANADA**Marine Rescue Co-ordination Centre: Les Escoumins (CCG)****Region:** IV
Position: 48°19'N 69°25'W
Call Sign: VCF

24-hour watch

METAREA: IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 21B		Lac d'Aigle	50°17'N 66°19'W	
VHF	A	Ch 21B		Grosses-Roches	48°55'N 67°07'W	
VHF	A	Ch 21B		Cap-Est	48°23'N 70°41'W	
VHF	B	Ch 83B		Sacré-Coeur	48°13'N 69°52'W	
VHF	B	Ch 83B		Mont-Louis	49°13'N 65°46'W	
VHF	B	Ch 83B		Mont-Joli	48°37'N 68°14'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A, B	Weather synopsis and forecast for Areas 219, 301-305. Navigational warnings: Notices to shipping from l'Ile aux Coudres to a line from Mingan to Cap Gaspe including Port Meunier and the western point of Anticosti island and the Saguenay River. Notices to fishermen (when available). Ice information for Areas 24 and 25.	
On request	A, B	Hourly weather observations for specific locations.	

CANADA**Marine Rescue Co-ordination Centre: Montréal (CCG)**

Region: IV
Position: 45°33'N 73°30'W
Call Sign: VFN

24-hour watch

METAREA: IV

Area Covered: North Atlantic to Barents Sea
 Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 25B		Mont Rigaud	45°27'N 74°18'W	
VHF	A	Ch 21B		Mont S. Bruno	45°33'N 73°20'W	
VHF	B	Ch 25B		Sorel	46°03'N 73°07'W	
VHF	C	Ch 83B		L'Acadie	45°19'N 73°19'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A, B	Weather synopsis and forecast for Areas 308, 309. Navigational warnings: Ice reports for Areas 25 and 26.	
Continuous broadcast	A, B, C	Navigational warnings: Notices to shipping. Water level reports for Montreal, Sorel, Trois Rivières. Seaway message.	
Continuous broadcast (1 May - 31 October)	C	Weather synopsis and forecast for Areas 308, 309.	
On request	A-C	Hourly weather observations for specific locations on request.	

CANADA**Marine Rescue Co-ordination Centre: Placentia (CCG)****Region:** IV
Position: 46°55'N 55°23'W
Call Sign: VCP

24-hour watch

METAREA: IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 598 kHz				
VHF	B	Ch 83B		Fortune Head	47°04'N 55°51'W	
VHF	B	Ch 83B		Cape Pine	46°37'N 53°32'W	
VHF	B	Ch 28B		Hermitage	47°34'N 55°56'W	
VHF	B	Ch 23B		Freshwater	47°16'N 53°39'W	
VHF	B	Ch 21B		Bay L'Argent	47°32'N 54°52'W	
VHF	B	Ch 21B		S. Lawrence	46°55'N 55°22'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0048, 1607	A	Weather synopsis, forecast and sea state forecasts for Areas 231-236. Weather forecast and sea state forecasts for Areas 213, 215.	
0737, 2137	A	Weather synopsis and forecasts for Areas 231-236. Weather forecast for Areas 213, 215. Navigational warnings: Notices to fishermen when available.	
1137, 1807	A	Navigational warnings: Notices to Shipping, Ramea Island to Cape Ballard.	
Continuous broadcast	B	Weather synopsis, forecast and sea state forecasts for Areas 231-236. Weather forecast and sea state forecasts for Areas 213, 215. Actual Weather Obs (when available) for the following stations: (a) Cape Race; (b) Argentia; (c) S. Pierre; (d) Marticot; (e) Sagona; (f) S. Lawrence. Navigational warnings: Notices to Shipping, Ramea Island to Cape Ballard. Ice edge and conditions for Areas 13-15.	

CANADA

Marine Rescue Co-ordination Centre: Port aux Basques (CCG)

Region: IV
Position: 45°33'N 58°46'W
Call Sign: VOJ

24-hour watch

METAREA: IV

Area Covered: Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 598 kHz				
VHF	B	Ch 28B	English	Table Mountain	47°41'N 59°16'W	
VHF	B	Ch 28B	English	Table Mountain	47°41'N 59°16'W	
VHF	B	Ch 21B	English	Ramea Island	47°31'N 57°25'W	
VHF	B	Ch 21B	English	Pointe Riche	52°42'N 57°25'W	
VHF	B	Ch 28B	English	Pine Tree	48°35'N 58°40'W	
VHF	B	Ch 28B	English	Mount Moriah	48°58'N 58°03'W	
VHF	B	Ch 83B	English	Bonne Bay	49°36'N 57°57'W	
VHF	C	Ch 21B	French	Pointe Riche	52°42'N 57°25'W	
VHF	C	Ch 83B	French	Pine Tree	48°35'N 58°40'W	
VHF	C	Ch 83B	French	Mount Moriah	48°58'N 58°03'W	
VHF	C	Ch 25B	French	Bonne Bay	49°37'N 57°24'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0207, 1507	A	Weather synopsis, forecast and sea state forecasts for Areas 220-222, 231, 232 and 235. Weather forecast and sea state forecasts for Areas 215, 217 and 219.	English followed by French
0807, 1837	A	Navigational warnings: Ice edge and conditions for Areas 15, 16, 21 and 22.	English followed by French
0807, 2107	A	Weather synopsis and forecasts for Areas 220-222, 231, 232 and 235. Weather forecast for Areas 215, 217 and 219.	English followed by French
1207, 1837	A	Navigational warnings: Notices to shipping Labrador border.	English followed by French
1207, 2107	A	Navigational warnings: Notices to fishermen when available.	English followed by French
Continuous broadcast	B, C	Navigational warnings: Notices to Shipping for Penguin Island to Cape Norman, including Labrador coast between West Point (red Bay) and the Québec/Labrador border. Notices to fishermen when available.	
Continuous broadcast	B, C	Weather synopsis, forecast and sea state forecasts for Areas 220-222, 231, 232 and 235. Weather forecast and sea state forecasts for Areas 215, 217 and 219. Actual Weather Obs (when available) for the following stations: (a) Burgeo; (b) Port aux Basques; (c) S. Paul Island; (d) Stephenville; (e) Daniel's Harbour; (f) Ferolle Point; (g) Blanc Sablon.	

CANADA**Marine Rescue Co-ordination Centre: Prescott (Wiar-ton) (CCG)****Region:** IV

24-hour watch

Position: 44°20'N 81°10'W**Call Sign:** --**METAREA:** IV**Area Covered:** Great Lakes

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 83B		Cornwall (1)	45°01'N 74°44'W	
VHF	A	Ch 21B		Cardinal (1)	44°47'N 75°25'W	
VHF	A	Ch 83B		Kingston	44°16'N 76°41'W	
VHF	B	Ch 23B		Cornwall (1)	45°01'N 74°44'W	
VHF	B	Ch 28B		Cardinal (1)	44°47'N 75°25'W	
VHF	B	Ch 23B		Kingston	44°16'N 76°41'W	
VHF	C	Ch 83B		Fonthill	43°03'N 79°19'W	
VHF	D	Ch 21B		Orillia (1)	44°35'N 79°18'W	
VHF	D	Ch 21B		Coburg	44°04'N 78°13'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A, C	Navigational warnings: Ice bulletins for Area 27, 28.	English
Continuous broadcast	B	Weather forecast (MAFOR) for Areas 309, 401. Great Lakes Weather Bulletin (LAWEB) broadcast from Kingston to Montréal. Ships' weather reports. Navigational warnings: Notices to shipping. Water level reports for Montréal Harbour.	French
Continuous broadcast	D	Navigational warnings: Ice bulletins for Area 31.	
Continuous broadcast	D	Weather forecast (MAFOR) and synopsis for Areas 406. Great Lakes Weather Bulletin (LAWEB) broadcast for Barrie and Lagoon City. Current small craft weather reports. Navigational warnings: Notices to shipping. Ice bulletins for Area 31.	English
Continuous broadcast (East)	A	Weather forecast (MAFOR) for Areas 309, 401, 402. Great Lakes Weather Bulletin (LAWEB) broadcast from Point Petre to Montréal. Ships' weather reports. Navigational warnings: Notices to shipping. Water level reports for Montréal Harbour and Lake Ontario.	English
Continuous broadcast (West)	C	Weather forecast (MAFOR) for Areas 402, 403. Great Lakes Weather Bulletin (LAWEB) broadcast for Lake Erie from Long Point to Port Colborne and for Lake Ontario from Port Weller to Kingston. Ships' weather reports. Navigational warnings: Notices to shipping. Water level reports for Toronto Harbour, Lake Ontario and Lake Erie.	English

CANADA

NOTE:

When continuous broadcasts are not in service, schedules broadcasts will be made at Traffic List times.

(1) Operational 1 April - 31 December.

CANADA**Marine Rescue Co-ordination Centre: Prince Rupert (CCG)****Region:** IV

24-hour watch

Position: 54°18'N 130°25'W**Call Sign:** VAJ**METAREA:** XII**Area Covered:** Coastal waters of western Canada - East Pacific Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 054 kHz		Hunter Point	53°16'N 132°43'W	
RT (MF)	A	2 054 kHz		Prince Rupert	54°18'N 130°25'W	
VHF	B	WX2		Calvert	51°35'N 128°01'W	
VHF	B	WX2		Barry Inlet	52°35'N 131°45'W	
VHF	B	WX1		Van Inlet	53°15'N 132°33'W	
VHF	B	WX3		Naden Hr.	53°57'N 132°57'W	
VHF	B	WX3		Cumshewa	53°10'N 132°00'W	
VHF	B	WX1		Klemtu	52°35'N 128°34'W	
VHF	B	WX2		Mt. Gil	53°16'N 129°12'W	
VHF	B	Ch 21B		Rose Inlet	52°13'N 131°13'W	
VHF	B	Ch 21B		Kitimat	54°03'N 120°38'W	
VHF	B	Ch 21B		Mt. Hays	54°17'N 130°19'W	
VHF	B	WX2		Dundas I.	54°31'N 130°55'W	
VHF	B	Ch 21B		Mount Dent	55°13'N 129°59'W	

CANADA

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0105, 0705, 1305, 1905	A	<p>Synopsis and forecast for Areas 2-5, 13-17. Reports from stations (see 2 & 3 below).</p> <p>1. Local and Lt Ho Weather Reports from: (a) Green Island; (b) Triple Island; (c) Bonilla Island; (d) Langara Island; (e) Boat Bluff; (f) McInnes Island; (g) Ivory Island; (h) Addenbroke Island; (I) Egg Island; (j) Pine Island; (k) Cape Scott; (l) Dryad Point; (m) Scarlett Point.</p> <p>2. Automated Station Weather Reports from: (a) Grey islet; (b) Luch Island; (c) Holland Rock; (d) Bonilla Island; (e) Rose Spit; (f) Kindakun Rock; (g) Prince Rupert; (h) Langara Island; (i) Cumshewa Island; (j) Cape S. James; (k) Cathedral Point; (l) Sartine Island; (m) Herbert Island.</p> <p>3. Ocean buoy Reports from: (a) North Nomad; (b) Middle Nomad; (c) West dixon Entrance; (d) Central dixon Entrance; (e) North Hecate Strait; (f) South Hecate Strait; (g) West Moeresby; (h) Nanakwa Shoal; (i) West Sea Otter; (j) South Moeresby; (k) East Dellwood.</p>	
0105, 0705, 1305, 1905 (urgent warnings only)	A	Navigational warnings: Notices to shipping.	
Continuous broadcast (interrupted during live broadcasts)	B	Navigational warnings: Notices to shipping and Notices to Fishermen.	
Continuous broadcast (interrupted during live broadcasts)	B	<p>Synopsis and forecast for Areas 2-5, 13-17. Reports from stations (see 1, 2 & 3 below).</p> <p>1. Local and Lt Ho Weather Reports from: (a) Green Island; (b) Triple Island; (c) Bonilla Island; (d) Langara Island; (e) Boat Bluff; (f) McInnes Island; (g) Ivory Island; (h) Addenbroke Island; (I) Egg Island; (j) Pine Island; (k) Cape Scott; (l) Dryad Point; (m) Scarlett Point.</p> <p>2. Automated Station Weather Reports from: (a) Grey islet; (b) Luch Island; (c) Holland Rock; (d) Bonilla Island; (e) Rose Spit; (f) Kindakun Rock; (g) Prince Rupert; (h) Langara Island; (i) Cumshewa Island; (j) Cape S. James; (k) Cathedral Point; (l) Sartine Island; (m) Herbert Island.</p> <p>3. Ocean buoy Reports from: (a) North Nomad; (b) Middle Nomad; (c) West dixon Entrance; (d) Central dixon Entrance; (e) North Hecate Strait; (f) South Hecate Strait; (g) West Moeresby; (h) Nanakwa Shoal; (i) West Sea Otter; (j) South Moeresby; (k) East Dellwood.</p>	

NOTE: Continuous broadcast information is available by tel. from prince Rupert +1 250 624 9009.

CANADA**Marine Rescue Co-ordination Centre: Québec (CCG)****Region:** IV**Position:****Call Sign:** VCC

24-hour watch

METAREA: IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 21B		Rivière-du-Loup	47°45'N 69°36'W	
VHF	A	Ch 21B		Lauzon	46°49'N 71°10'W	
VHF	B	Ch 83B		Rivière-du-Loup	47°45'N 69°36'W	
VHF	B	Ch 83B		Montmagny	46°56'N 70°31'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A, B	Weather synopsis and forecast for areas 305-308. Navigational warnings: Notices to Shipping from Lac St. Pierre up to Les Escoumins Trois Pistoles. Seaway Radio Message. Ice reports for Areas 24 and 25.	

CANADA

Marine Rescue Co-ordination Centre: Resolute (CCG)

Region: IV
Position: 74°45'N 94°58'W
Call Sign: --

METAREA: IV
Area Covered: Arctic coast, Atlantic Coast and S. Lawrence River

NOTE: Remotely controlled from Iqaluit (Frobisher Bay) (VFF).

CANADA

Marine Rescue Co-ordination Centre: Rivière-au-Renard (CCG)

Region: IV
Position: 50°11'N 66°07'W
Call Sign: VCG

24-hour watch

METAREA: IV

Area Covered: Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 598 kHz				
RT (MF)	A	2 749 kHz				
VHF	B	Ch 25B		Harrington Hr (1)	50°30'N 59°29'W	
VHF	B	Ch 83B		La Romaine (1)	50°13'N 60°41'W	
VHF	B	Ch 21B		Natashquan	50°09'N 61°48'W	
VHF	B	Ch 83B		Havre St. Pierre	50°16'N 63°41'W	
VHF	B	Ch 25B		Heath Point	49°05'N 61°02'W	
VHF	B	Ch 21B		Forillon	48°50'N 64°16'W	
VHF	B	Ch 83B		Newport	48°14'N 64°48'W	
VHF	B	Ch 21B		Carleton	48°08'N 66°07'W	
VHF	B	Ch 21B		Cap-aux-Meules	47°23'N 61°52'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0437, 0847, 1407, 2317	A	Weather synopsis and forecasts for Areas 215-221 and 301-303. Sea state forecasts for Areas 215, 217 and 219-221.	English followed by French
0437, 0937, 1737, 2317	A	Navigational warnings: Notices to fishermen when available.	English followed by French
0937, 1737	A	Navigational warnings: Notices to Shipping for Gulf of S. Lawrence, S. Lawrence River, Chaleur Bay, Magdalen Islands, Prince Edward Island and Miramichi Bay. Ice reports for Areas 20 and 22-24.	English followed by French
Continuous broadcast	B	Navigational warnings: Notices to Shipping for Gulf of S. Lawrence including the Magdalene Islands, the coast between Sept-Iles and Blanc Sablon, the southern shore of 66°W eastward including the Baie des Chaleurs up to Miramichi beach. Notices to fishermen when available. Ice reports for Areas 20 and 22-24.	English followed by French
Continuous broadcast	B	Weather synopsis and forecasts for Areas 215-221 and 301-303. Sea state forecasts for Areas 215, 217 and 219-221.	English followed by French

(1) Seasonal operation 1 April to 31 December.

CANADA**Marine Rescue Co-ordination Centre: Saint Anthony(CCG)****Region:** IV
Position: 51°30'N 55°49'W
Call Sign: VCM

24-hour watch

METAREA: IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 598 kHz				
VHF	B	Ch 83B		Twillingate	49°41'N 54°48'W	
VHF	B	Ch 21B		Comfort Cove	49°15'N 54°53'W	
VHF	B	Ch 21B		Conche	50°54'N 55°53'W	
VHF	B	Ch 21B		Fox Harbour	52°22'N 55°40'W	
VHF	B	Ch 83B		l'Anse aux Meadows	51°34'N 55°30'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0107, 0907, 1337, 1937	A	Weather synopsis, forecast and sea state for Areas 220-224, 226, 227, 235, 237 and 238. Navigational warnings: Ice conditions and forecast for Areas 8-14 (south of 54°N). Iceberg bulletin for E coast of Newfoundland and Strait of Belle Isle.	
1237, 1907	A	Navigational warnings: Notices to shipping for an area bounded by Flower's Cove to the west, Cartwright to the north and Cape Freels to the southeast. Notices to fishermen when available.	
Continuous broadcast	B	Weather synopsis, forecast and sea state for Areas 220-224, 226, 227, 235, 237 and 238. Actual Weather Obs (when available) for the following stations: (a) S. Anthony Airport; (b) Englee; (c) La Scie; (d) Blanc Sablon; (e) Mary's Harbour; (f) Twillingate; (g) Pool's Island; (h) S. Anthony's Harbour. Navigational warnings: Notices to shipping for an area bounded by Flower's Cove to the west, Cartwright to the north and Cape Freels to the southeast. Notices to fishermen when available. Ice conditions and forecast for Areas 8-14 (south of 54°N). Iceberg bulletin for E coast of Newfoundland and Strait of Belle Isle.	

CANADA

Marine Rescue Co-ordination Centre: Saint John's, New Brunswick (CCG)

Region: IV
Position: 45°14'N 65°59'W
Call Sign: --

24-hour watch

METAREA: IV

Area Covered: Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 749 kHz		Yarmouth	43°45'N 66°07'W	
VHF	B	Ch 83B		Yarmouth	43°45'N 66°07'W	
VHF	B	Ch 21B		Saint John	45°14'N 65°59'W	
VHF	B	Ch 21B		Lockeport	43°40'N 65°08'W	
VHF	B	Ch 83B		Cape Blomidon	45°14'N 64°24'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0140, 1040, 1640, 2040	A	Weather synopsis, forecast and sea state forecasts for Areas 201-208. Weather forecasts for Eastport to Stonington, Maine and Gulf of Maine areas.	English followed by French
0140, 1240, 1640,	B	Navigational warnings: Notices to shipping for the Bay of Fundy and the south and west coasts of Nova Scotia.	English followed by French
0140, 1640	A	Navigational warnings: Notices to shipping for the Bay of Fundy and the south and west coasts of Nova Scotia.	English followed by French
0140, 1640, 2040 Continuous broadcast (interrupted during live broadcasts)	B	Weather synopsis, forecast and sea state forecasts for Areas 201-208. Weather forecasts for Eastport to Stonington, Maine and Gulf of Maine areas.	English followed by French
1040, 2040	A	Navigational warnings: Notices to fishermen when available.	English followed by French
2040 Continuous broadcast (interrupted during live broadcasts)	B	Navigational warnings: Notices to fishermen when available.	English followed by French

CANADA

Marine Rescue Co-ordination Centre: Saint John's, Newfoundland (CCG)

Region: IV
Position: 47°30'N 52°40'W
Call Sign: VON

24-hour watch

METAREA: IV

Area Covered: Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 598 kHz				
VHF	B	Ch 28B		Lumsden	49°17'N 53°35'W	
VHF	B	Ch 83B		Victoria	47°47'N 53°17'W	
VHF	B	Ch 21B		Cape Bonavista	48°42'N 53°05'W	
VHF	B	Ch 21B		S. John's	47°37'N 52°40'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0007, 0837, 1637, 2207	B	Navigational warnings: Ice edge and conditions for Areas 11-14.	
0007, 1637	A	Weather synopsis, forecast and sea state forecasts for Areas 232-238.	
0837, 2207	A	Weather synopsis and forecast for Areas 232-238.	
1307, 2007	A	Navigational warnings: For coastal waters Cape Pine to Twillingate and N Atlantic offshore waters to Cape Bauld. Notices to fishermen (when available) are also broadcast at 0837, 2007 on 2598 kHz.	
Continuous broadcast	B	Weather synopsis, forecast and sea state forecasts for Areas 232-238. Actual Weather Obs (when available) for the following stations: (a) Bonavista; (b) Grates Cove; (c) S. John's; (d) Cape Race; (e) S. Shott's; (f) Argentia; (g) Pool's Island. Navigational warnings: For coastal waters Cape Pine to Twillingate. Notices to fishermen (when available). Ice edge and conditions for Areas 11-14.	

CANADA**Marine Rescue Co-ordination Centre: Sarnia (CCG)****Region:** IV
Position: 43°02'N 82°11'W
Call Sign: VBE

24-hour watch

METAREA: IV**Area Covered:** Great Lakes

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 21B		Sarnia	43°02'N 82°11'W	
VHF	A	Ch 83B		Kincardine	44°07'N 81°42'W	
VHF	B	Ch 21B		Port Burwell	42°35'N 80°36'W	
VHF	B	Ch 83B		Leamington	42°04'N 82°40'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A, B	Navigational warnings: Ice reports for Areas 29-31.	
Continuous broadcast (North)	A	Weather forecast (MAFOR) for Areas 403-405. Great Lakes Weather Bulletin (LAWEB) broadcast from Great Duck Island to Windsor. Ships' weather reports. Navigational warnings: Notices to shipping for Lake Huron south of 45°10'N, S. Clair River, Lake S. Clair and Detroit River.	
Continuous broadcast (South)	B	Weather forecast (MAFOR) for Areas 403-405. Great Lakes Weather Bulletin (LAWEB) broadcast from Sarnia to Port Colborne. Ships' weather reports. Navigational warnings: Notices to shipping in S. Clair River, Lake S. Clair, Detroit River and lake Erie west of 79°40'W.	

CANADA**Marine Rescue Co-ordination Centre: Sydney (CCG)****Region:** IV
Position: 46°10'N 60°00'W
Call Sign: VCO

24-hour watch

METAREA: IV**Area Covered:** North Atlantic to Barents Sea
Arctic coast, Atlantic Coast and S. Lawrence River

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 749 kHz				
VHF	B	Ch 21B		Port Caledonia	46°11'N 59°54'W	
VHF	B	Ch 21B		Point Escuminac	47°04'N 64°48'W	
VHF	B	Ch 21B		Montague	46°12'N 62°40'W	
VHF	B	Ch 83B		Cape North	47°01'N 60°26'W	
VHF	B	Ch 83B		Cape Egmont	46°24'N 64°08'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0040, 0740, 1440, 1940	A	Weather synopsis and forecasts for Areas 209, 213-218, 231 and 232. Sea state forecasts for Areas 209, 213-215 and 217.	
0040, 1440	A	Navigational warnings: Notices to shipping in areas Cape Breton Shore (covering Cabot Strait to Banquereau Bank), Gulf of S. Lawrence, Newfoundland south coast, Prince Edward Island and Miramichi Bay.	
0040, 1440 Continuous broadcast (interrupted during live broadcasts)	B	Weather synopsis and forecasts for Areas 209, 213-218, 231 and 232. Sea state forecasts for Areas 209, 213-215 and 217.	
0740, 1940	A	Navigational warnings: Notices to fishermen when available.	
Continuous broadcast (interrupted during live broadcasts)	B	Navigational warnings: Notices to fishermen when available. Ice forecasts for Areas 16 and 19.	

CANADA

Marine Rescue Co-ordination Centre: Thunder Bay (CCG)

Region: IV
Position: 48°25'N 89°20'W
Call Sign: VBA

24-hour watch

METAREA: IV
Area Covered: Great Lakes

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 83B	Great Lakes	Bald Head	47°40'N 84°48'W	
VHF	A	Ch 21B	Great Lakes	Sault Ste Marie (Gros Cap)	46°32'N 84°35'W	
VHF	A	Ch 21B	Great Lakes	Horn	48°49'N 87°21'W	
VHF	A	Ch 83B	Great Lakes	Bald Head	47°40'N 84°48'W	
VHF	B	Ch 21B	Great Lakes	Tobermory	45°10'N 81°30'W	
VHF	B	Ch 83B	Great Lakes	Silver Water (Manitoulin Island)	45°54'N 82°55'W	
VHF	B	Ch 21B	Great Lakes	Pointe au Baril	45°34'N 80°19'W	
VHF	B	Ch 83B	Great Lakes	Meaford	44°31'N 80°34'W	
VHF	B	Ch 21B	Great Lakes	Killarney (1)	45°58'N 81°29'W	
VHF	C	Ch 26	Hudson Bay	Churchill (2)	58°46'N 93°57'W	
RT (MF)	C	2 582 kHz	Hudson Bay	Churchill (2)	58°46'N 93°57'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0040, 1410	C	Weather synopsis and forecasts for Areas 156-159, 162, 163. For Areas 160, 161 on request. Navigational warnings: Notices to Shipping for waters south of 70°N between 75°W and 96°W including James Bay, Hudson Bay and Foxe Basin.	
0040, 1520	C	Navigational warnings: Ice hazard bulletin for Areas 155-159, 160 and 162.	
Continuous broadcast (East)	B	Weather forecast (MAFOR) for Areas 405-408. Recreational marine forecast for the North Channel (15 May to 31 October). Great Lakes Weather Bulletin (LAWEB) for reporting points from Sault Ste Marie to Sarnia and Georgian Bay. Ships' weather reports. Navigational warnings: Notices to Shipping for Lake Huron, north of latitude 44°N, Georgian Bay (including Port Severn Lock), the North Channel and the S. Mary's River. Ice hazard bulletin for Lakes Superior and Huron.	
Continuous broadcast (West)	A	Weather forecast (MAFOR) for Areas 405-408. Great Lakes Weather Bulletin (LAWEB) for reporting points from Duluth (Lake Superior) to Detour Reef (Lake Huron). Ships' weather reports. Navigational warnings: Notices to Shipping for Lake Superior and the St. Mary's River. Ice hazard bulletin for Lakes Superior and Huron.	

CANADA

Note: When continuous broadcasts are not in service, scheduled broadcasts will be made at Traffic List times.

- (1) Station in operation approximately from 1 April to 31 December.
- (2) Station in operation only during season of navigation (approximately from 1 July - 31 October)

CANADA

Marine Rescue Co-ordination Centre: Tofino (CCG)

Region: IV
Position: 48°56'N 125°32'W
Call Sign: VAE

24-hour watch

METAREA: XII

Area Covered: East Pacific Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 054 kHz				
VHF	B	WX2		Port Alberni	49°13'N 124°49'W	
VHF	B	Ch 21B		Mt. Ozzard	48°58'N 125°30'W	
VHF	B	WX3		Estevan Point	49°23'N 126°41'W	
VHF	B	WX2		Nootka	49°36'N 126°37'W	
VHF	B	Ch 21B		Esperanza	49°51'N 126°48'W	
VHF	B	WX1		Eliza Dome	49°52'N 127°07'W	
VHF	B	Ch 21B		Holberg	50°38'N 128°08'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0050, 0650, 1250, 1850	A, B	Synopsis and Forecast for Areas 1, 5-8, 13, 14. Reports from: Automated Station Weather Reports from: (1) Cape S. James; (2) Cathedral Point; (3) Herbert Island; (4) Sartine Island; (5) Solander Island; (6) Sheringham Point; (7) Race Rocks, (8) Discovery Island. Ocean Buoy Reports from: (1) West Sea Otter; (2) East Dellwood; (3) South Brooks; (4) La Perouse.	
0050, 0650, 1250, 1850 (urgent warnings)	A, B	Navigational warnings: Notices to Shipping.	
2115 (Mondays only)	B	Navigational warnings: Notices to fishermen.	
Continuous broadcast (interrupted during live broadcasts)	B	Synopsis and Forecast for Areas 1, 5-8, 13, 14. Forecast for coastal waters of western Washington. Local and Lt Ho Weather reports from: (1) Trial Island; (2) Carmanah Point; (3) Pachena Point; (4) Cape Beale; (5) Amphitrite Point; (6) Lennard Island; (7) Estevan Point; (8) Nootka; (9) Quatsino; (10) Cape Scott; (11) Pulteney Point; (12) Scarlett Point; (13) Pine Island; (14) Egg Island; (15) Addenbroke; (16) Dryad; (17) Boat Bluff; (18) Ivory; (19) McInnes. Automated Station Weather Reports from: (1) Cape S. James; (2) Cathedral Point; (3) Herbert Island; (4) Sartine Island; (5) Solander Island; (6) Sheringham Point; (7) Race Rocks, (8) Discovery Island. Ocean Buoy Reports from: (1) West Sea Otter; (2) East Dellwood; (3) South Brooks; (4) La Perouse.	
Continuous broadcast (interrupted during live broadcasts; urgent warnings only)	B	Navigational warnings: Notices to Shipping for coastal waters of western Washington.	

(1) Continous broadcast information is also available by telephone: +1 250 7263415.

CANADA**Marine Rescue Co-ordination Centre: Vancouver (CCG)****Region:** IV
Position: 49°17'N 123°07'W
Call Sign: VAS

24-hour watch

METAREA: XII**Area Covered:** Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 26		Watts Point	49°39'N 123°13'W	
VHF	A	Ch 26		Vancouver	49°17'N 123°07'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530, 1530, 2130	A	Navigational warnings: Notices to Shipping.	

CANADA

Marine Rescue Co-ordination Centre: Victoria (CCG)

Region: IV
Position: 49°11'N 123°07'W
Call Sign: VAK

METAREA: XII
Area Covered: East/South China Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 21B (1)		Mt Parke	48°50'N 123°18'W	
VHF	B	WX3 (2)		Mt Helmcken	48°24'N 123°34'W	
VHF	B	WX3 (2)		Bowen Island	49°21'N 123°23'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0510, 1510, 2110 Continuous broadcast (interrupted during live broadcasts; urgent warnings only)	A, B	Navigational warnings: Notices to shipping for the Strait of Georgia, Howe Sound, Haro Strait, Juan de Fuca Strait, West Coast Vancouver I. and adjacent US waters.	
Continuous broadcast (interrupted during live broadcasts)	A	Synopsis and forecast for Areas 6-11, MAREPS when available and reports from stations: 1. Local and Lt. Ho Weather reports from: (a) Chrome Island; (b) Carmanah Point; (c) Merry Island; (d) Pachena Point; (e) Entrance Island; (f) Cape Beale; (g) Amphitrite Point; (h) Lennard Island; (i) Trial Island; (j) Estevan Point. 2. Automated Station Weather Reports: (a) Sheringham Point; (b) Race Rocks; (c) Victoria/Gonzales Point; (d) Discovery Island; (e) Kelp Reef; (f) Saturna Island; (g) Sandheads; (h) Point Atkinson; (i) Pam Rocks; (j) Entrance Island; (k) Ballenas Island; (l) Sisters Islet; (m) Grief Point. 3. Ocean Buoy Weather Reports from: (a) Halibut Bank. 4. Local Weather Reports: (a) Jericho; (b) Tsawassen.	
Continuous broadcast (interrupted during live broadcasts)	B	Synopsis and forecast for Areas 6-11 and the coastal waters of western Washington State (USA) Cape Flattery to Columbia River out 60 n miles, Camano Island to Point Robert, Puget Sound and Hood Canal. MAREPS when available and reports from stations: 1. Local and Lt. Ho Weather reports from: (a) Estevan Point, (b) Lennard Island; (c) Amphitrite Point; (d) Cape Beale; (e) Pachena Point; (f) Carmanah Point; (g) Trial Island. 2. Automated Station Weather Reports: (a) Sheringham Point; (b) Race Rocks; (c) Victoria/Gonzales Point; (d) Kelp Reef; (e) Saturna Island; (f) Sandheads. 3. Ocean Buoy Weather Reports from: (a) La Perouse Bank. 4. US Buoy Reports: (a) Cape Flattery; (b) Smith Island.	

(1) Continuous broadcast information is also available by telephone: Vancouver / Lower mainland, +1 604 666 3655.
 (2) Continuous broadcast information is also available by telephone: Victoria, +1 250 474 7998.

CHILE**Marine Rescue Co-ordination Centre: Antofagasta Zonal****Region:** III
Position: 23°40'S 70°25'W
Call Sign: CBA

24-hour watch

METAREA: XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				
VHF	B	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1250	A	Forecast for Areas 1-3.	Spanish
0055, 1305	B	Present weather.	Spanish
0700, 1900	A	Forecast, for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish, English
0730, 0900, 0930, 1130, 1330, 1530, 1730, 1930	A	Sea observations for Mediterranean Sea and Aegean Sea.	Turkish
0900, 1200, 1500, 1800, 2100 LT (2)(3)	A	Gale warnings and forecasts for Turkish coastal waters of Southern Aegean and Mediterranean Seas.	Turkish, English
0900, 1930	A	3 day forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
On receipt	A	Weather warnings.	

CHILE**Marine Rescue Co-ordination Centre: Arica Radio**

Region: III
Position: 18°29'S 70°20'W
Call Sign: CBA

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	A	Forecast for Areas 1.	Spanish
0050, 1255	B	Forecast for Areas 1.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Bahía Félix Radio**

Region: III
Position: 52°58'S 74°04'W
Call Sign: CBX

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350	B	Present weather for: Bahía Félix.	Spanish
0210, 1410	A	Present weather for: Bahía Félix.	Spanish

CHILE**Maritime Radio Station: Bahía Fildes****Region:** III
Position: 62°11'S 58°55'W
Call Sign:**METAREA:** XV**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350	A	Antarctic weather forecast for area 9.	
0155, 1355	B	Antarctic weather forecast for area 9.	

CHILE**Marine Rescue Co-ordination Centre: Cabo Carranza, Faro****Region:** III
Position: 35°33'S 72°37'W
Call Sign: CBT2**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0145, 1345	A	Present weather for: Cabo Carranza area.	Spanish
0150, 1350	B	Present weather for: Cabo Carranza area.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Cabo Raper, Faro****Region:** III
Position: 46°49'S 75°38'W
Call Sign: CBM2**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0040, 0640, 1240, 1840	A	Present weather for: Cabo Cabo Raper area.	Spanish
0045, 0645, 1245, 1845	B	Present weather for: Cabo Cabo Raper area.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Caldera**
Region: III
Position: 27°04'S 70°50'W
Call Sign: CBA
METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0055, 1255	A	Forecast for areas 1 & 2.	Spanish
0105, 1305	B	Forecast for areas 1 & 2.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Castro**

Region: III
Position: 42°29'S 73°46'W
Call Sign: CBP

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 146 kHz				
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0050, 1250	A	Forecast for areas 6 & 7 and present weather for the Chiloé area.	Spanish
0105, 1305	B	Forecast for areas 6 & 7 and present weather for the Chiloé area.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Chañaral****Region:** III
Position: 26°21'S 70°38'W
Call Sign: CBA**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	A	Forecast for area 1.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Consitutción**

Region: III
Position: 35°20'S 72°25'W
Call Sign: CBT21

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0250, 1450	A	Present weather for: Constitución area.	
0255, 1455	B	Present weather for: Constitución area.	

CHILE**Marine Rescue Co-ordination Centre: Coquimbo****Region:** III
Position: 29°57'S 71°20'W
Call Sign: CBA**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	A	Forecast for area 1 & 2.	Spanish
0055, 1255	B	Forecast for area 1 & 2.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Diégo Ramirez****Region:** III
Position: 56°31'S 68°42'W
Call Sign: CBM

24-hour watch

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110, 1310	A	Forecast for Drake Passage.	Spanish
0120, 1320	B	Forecast for Drake Passage.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Huasco**

Region: III
Position: 28°28'S 71°14'W
Call Sign: CBA24

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	A	Forecast for area 1.	Spanish
0055, 1255	B	Forecast for area 1.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Iquique**

Region: III
Position: 20°12'S 70°09'W
Call Sign: CBA3

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0050, 1255	A	Forecast for area 1.	Spanish
0055, 1305	B	Forecast for area 1.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Isla de Pascua Zonal Radio (Easter Island)**

Region: III
Position: 27°09'S 109°26'W
Call Sign: CBY

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0215, 1415	B	Forecast for Isla de Pacua.	Spanish
0225, 1425	A	Forecast for Isla de Pacua.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Isla Guafo, Faro****Region:** III
Position: 43°34'S 74°50'W
Call Sign: CBP4**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0340, 0940, 1540, 2140	A	Present weather for the Isla Guafo area.	Spanish
0350, 0950, 1550, 2150	B	Present weather for the Isla Guafo area.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Isla Mocha, Faro****Region:** III
Position: 38°23'S 73°53'W
Call Sign: CBT3**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 1405	A	Forecast for Isla Mocha.	Spanish
0210, 1410	B	Forecast for Isla Mocha.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Isla Quiriquina, Faro**

Region: III
Position: 36°37'S 73°03'W
Call Sign: CBT70

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0155, 1355	A	Present weather for the Quiriquina area.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Isla San Pedro**

Region: III
Position: 47°43'S 74°53'W
Call Sign: CBS

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0105, 1305	A	Forecast for Areas 6 & 7 and present weather for Isla San pedro and Golfo de Penas areas.	Spanish
0115, 1315	B	Forecast for Areas 6 & 7 and present weather for Isla San pedro and Golfo de Penas areas.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Islote Fairway, Faro**

Region: III
Position: 52°44'S 73°47'W
Call Sign: CBM4

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350	A	Present weather for Islote Fairway area with summaries for Felix and Evangelistas.	Spanish
0155, 1355	B	Present weather for Islote Fairway area with summaries for Felix and Evangelistas.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Islotes Evangelistas, Faro****Region:** III
Position: 52°24'S 75°06'W
Call Sign: CBM**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 1405	A	Present weather for the western Estrecho de Magallanes area with summary for Faro Fairway and Faro Felix.	Spanish
0210, 1410	B	Present weather for the western Estrecho de Magallanes area with summary for Faro Fairway and Faro Felix.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Juan Fernández****Region:** III
Position: 33°36'S 78°50'W
Call Sign: CBF**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 1405	B	Present weather for Isla Juan Fernández.	Spanish
0220, 1420	A	Present weather for Isla Juan Fernández.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Magallanes Zonal Radio****Region:** III
Position: 52°56'S 70°55'W
Call Sign: CBM

24-hour watch

METAREA: XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
RT (HMF)	B	4 146 kHz				
VHF	C	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 1210	C	Forecast for areas 6-8. Special forecast for areas Estrecho Nelson, Puerto Natales, Fairway, Froward - Dungeness, Punta Arenas, Dungeness - Wollaston, Canal Beagle, Nassau - Cabo de hornos, Cabo de Hornos.	Spanish
0035, 1235	A	Forecast for areas 6-8. Special forecast for areas Estrecho Nelson, Puerto Natales, Fairway, Froward - Dungeness, Punta Arenas, Dungeness - Wollaston, Canal Beagle, Nassau - Cabo de hornos, Cabo de Hornos.	Spanish
0035, 1235	B	Present weather for Faro Evangelistas and Faro Fairway areas.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Puerto Aysén**

Region: III
Position: 45°24'S 72°42'W
Call Sign: CBP3

METAREA: XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350	A	Local weather for the Puerto Aysén and lakes area.	Spanish
0205, 1405	B	Local weather for the Puerto Aysén and lakes area.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Puerto Montt Zonal Radio**

Region: III
Position: 41°29'S 72°57'W
Call Sign: CBP

METAREA: XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 146 kHz				
RT (MF)	A	2 738 kHz				
VHF	B	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1130, 2325	A	Forecast for areas 4-8 and present weather for Puerto Montt, Faro Corona, Faro Raper and Faro Guafo. Special forecast for areas Estrecho Nelson, Puerto Natales, Fairway, Froward - Dungeness, Punta Arenas, Dungeness - Wollaston, Canal Beagle, Nassau - Cabo de hornos, Cabo de Hornos.	Spanish
1150, 2345	B	Forecast for areas 4-8 and present weather for Puerto Montt, Faro Corona, Faro Raper and Faro Guafo. Special forecast for areas Estrecho Nelson, Puerto Natales, Fairway, Froward - Dungeness, Punta Arenas, Dungeness - Wollaston, Canal Beagle, Nassau - Cabo de hornos, Cabo de Hornos.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Punta Corona, Faro****Region:** III
Position: 41°47'S 73°53'W
Call Sign: CBP70**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 0645, 1245, 1845	A	Present weather for western Chacao Channel with summary for Puerto Montt and Isla Guafo.	Spanish
0050, 0650, 1250, 1850	B	Present weather for western Chacao Channel with summary for Puerto Montt and Isla Guafo.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Punta Delgada****Region:** III
Position: 52°27'S 69°33'W
Call Sign: CBM5**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350	A	Present weather for the eastern entrance to Estrecho de Magallanes.	Spanish
0155, 1355	B	Present weather for the eastern entrance to Estrecho de Magallanes.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Punta Dungenes, Faro****Region:** III
Position: 52°24'S 68°26'W
Call Sign: CBM71**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 1405	A	Present weather for the eastern entrance to Estrecho de Magallanes.	Spanish
0210, 1410	B	Present weather for the eastern entrance to Estrecho de Magallanes.	Spanish

CHILE**Marine Rescue Co-ordination Centre: San Antonio****Region:** III
Position: 33°35'S 71°37'W
Call Sign: CBV22**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	A	Forecast for areas 3.	Spanish
0055, 1255	B	Forecast for areas 3.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Talcahuano Zonal Radio****Region:** III
Position: 36°42'S 73°06'W
Call Sign: CBT

24-hour watch

METAREA: XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	A	Forecast for areas 3-5.	Spanish
0055, 1255	B	Forecast for the Bahía Concepción area.	Spanish

CHILE**Maritime Radio Station: Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)**

Region: III
Position: 32°48'S 71°29'W
Call Sign: CBV

24-hour watch

METAREA: XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 357 kHz				
RT (MF)	A	2 738 kHz				
VHF	B	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1215, 2315	A	Forecast for Valparaiso Bay and areas 2,3. 8.	Spanish
1235, 2335	B	Storm warnings, synopsis, 24 hour forecast for Areas 1-6.	Spanish

CHILE**Marine Rescue Co-ordination Centre: Wollaston****Region:** III
Position: 55°36'S 67°25'W
Call Sign: CBN**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 1405	A	Present weather for Islas Wollaston.	Spanish
0210, 1410	B	Present weather for Islas Wollaston.	Spanish

CHINA**Maritime Radio Station: Guangzhou**

Region: II
Position: 23°09'N 113°29'E
Call Sign: XSQ

24-hour watch

METAREA: XI

Area Covered: East/South China Sea
 Taiwan Straits, Bashi Channel, Nanhai Sea and Beibu Wan Gulf (Bac Bo Gulf) (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	445 kHz				H24
WT (HF)	B	4 340 kHz				1000-2200
WT (HF)	C	6 382 kHz				2200-1000
WT (HF)	D	8 458 kHz				H24
WT (HF)	E	12 973 kHz				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030	A,C-E	Tropical storm warnings, 24 hour forecast.	English
0100	A,C-E	Tropical storm warnings, 24 hour forecast.	Chinese
0200, 0600, 0730	A,C-E	Navigational warnings for coastal waters of China S of 24°N.	Chinese
0248, 0448, 0848, 1048, 1448, 1648, 2048, 2248	A-E	Storm warnings. Navigational warnings for coastal waters of China S of 24°N.	Chinese, English
1230	A-E	Tropical storm warnings, 24 hour forecast.	English
1300	A,B,D,E	Tropical storm warnings, 24 hour forecast.	Chinese
1400	A,B,D,E	Navigational warnings for coastal waters of China S of 24°N.	Chinese

CHINA**Maritime Radio Station: Shanghai**

Region: II
Position: 31°07'N 121°33'E
Call Sign: XSG

24-hour watch

METAREA: XI

Area Covered: East/South China Sea
 Bohai Sea, Huanghai Sea, Donghai Sea, Shanghai Port, Taiwan Straits and sea areas around Taiwan province (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	522.5 kHz				H24
WT (HF)	B	4 259 kHz				1000-2200
WT (HF)	C	17 103 kHz				-
WT (HF)	C	12 856 kHz				-
WT (HF)	C	8 665 kHz				-
WT (HF)	C	6 454 kHz				2200-1000

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000, 0300, 0500, 0900, 1200, 1500, 1800, 2100	A-C	Navigational warnings.	Chinese
0100, 1400, 1700	A-C	Navigational warnings.	Chinese
0200, 0250, 0850, 1350, 2350	A-C	Navigational warnings.	English
0330, 0900	A-C	Gale warnings and 24 hour forecast.	English
0330, 0930	A-C	Gale warnings and 24 hour forecast.	Chinese

CHINA**Maritime Radio Station: Tianjin**

Region: II
Position: 38°54'N 117°44'E
Call Sign: XSV

METAREA: XI

Area Covered: North and Central Huanghai Sea and the Bohai Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	A	12 969 kHz				H24
WT (HF)	A	8 600 kHz				H24
WT (HF)	A	4 283 kHz				1000-2200

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230	A	Navigational warnings: For Bo Hai.	English
0230, 0600, 1300, 1830, 2200	A	Gale warnings.	Chinese, English
0600, 1300, 2100	A	Navigational warnings: For Bo Hai.	Chinese, English
0630, 1330	A	Navigational warnings: For Bo Hai.	Chinese

(1) After preliminary call on 500 kHz.

COMOROS**Maritime Radio Station: Moroni****Region:** I**Position:****Call Sign:** --**METAREA:** VII**Area Covered:** Comoro archipelago

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	3 331 kHz				
RT (HF)	B	7 260 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0930	B	Special cyclone bulletin.	French
Mon-Sat: 0400, 1700 Sun: 1700	A	Situation and 24 hour forecast for Comoro Islands.	French

CONGO**Maritime Radio Station: Pointe Noire****Region:** I
Position: 04°47'S 11°52'E
Call Sign: --**METAREA:** II**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 705 kHz			4°47'S 11°52'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0610, 0810, 1010, 1410, 1610	A	Navigational warnings: For coastal waters of Congo.	French

COOK ISLANDS**Maritime Radio Station: Rarotonga**

Region: V
Position: 21°12'S 159°49'W
Call Sign: ZKR

24-hour watch

METAREA: X**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 207 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0015, 0615, 1815	A	Forecast for Cook Islands coastal waters.	

COSTA RICA**Maritime Radio Station: Radio Bahía, Puntarenas****Region:** IV**Position:****Call Sign:** --**METAREA:** XII**Area Covered:** (a) Coastal waters, (b) Pacific Ocean and Caribbean Sea, from 90°W to 80°W, 11°N to 5°N, including Coco island

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	107.9 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1300, 0100	A	Offshore and coastal marine forecast.	Spanish

COSTA RICA**Maritime Radio Station: Radio Casino, Limón****Region:** IV**Position:****Call Sign:** --**METAREA:** IV**Area Covered:** (a) Coastal waters, (b) Pacific Ocean and Caribbean Sea, from 90°W to 80°W, 11°N to 5°N, including Coco island

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	98.3 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1300, 0000	A	Offshore and coastal marine forecast.	Spanish

COSTA RICA**Maritime Radio Station: Radio Pampa, Guanacaste****Region:** IV**Position:****Call Sign:** --**METAREA:** XII**Area Covered:** (a) Coastal waters, (b) Pacific Ocean and Caribbean Sea, from 90°W to 80°W, 11°N to 5°N, including Coco Island.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	1 420 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1200, 0100	A	Offshore and coastal marine forecast.	Spanish

COSTA RICA**Maritime Radio Station: Radio Stero Bahía, Limón****Region:** IV**Position:****Call Sign:** --**METAREA:** IV**Area Covered:** (a) Coastal waters, (b) Pacific Ocean and Caribbean Sea, from 90°W to 80°W, 11°N to 5°N, including Coco island

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	107.9 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1300, 0000	A	Offshore and coastal marine forecast.	Spanish

COTE D'IVOIRE**Maritime Radio Station: Abidjan Radio**

24-hour watch

Region: I**Position:** 05°22'N 03°58'W**Call Sign:** TUA**METAREA:** II**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 586 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0848, 1248, 1948	A	Navigational warnings: For coastal waters of Ivory Coast.	French

CROATIA**Maritime Radio Station: Dubrovnik**

Region: VI
Position: 42°39'N 018°07'E
Call Sign: 9AD

24-hour watch

METAREA: III**Area Covered:** Adriatic Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 07		Srdj (Dubrovnik)	42°39'N 18°07'E	
VHF	A	Ch 85		Hum	42°45'N 17°29'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0625, 1320, 2120	A	Weather bulletins for Adriatic sea. Navigational warnings: For coastal waters of Croatia.	Croatian, English

CROATIA**Maritime Radio Station: Harbour Master Office****Region:** VI**Position:****Call Sign:** --**METAREA:** III**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 73		Pula (N Adriatic)		
VHF	B	Ch 69		Rijeka (N Adriatic)		
VHF	C	Ch 67		Split (Central Adriatic)		
VHF	D	Ch 73		Dubrovnik (S Adriatic)		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous	A-D	Taped-voice weather information for coastal waters of Croatia. Broadcasts are made throughout the year and are repeated approximately every 10 minutes, the tape is updated at 0700, 1300 and 1900 LT. Information includes: brief situation report, 24 hour short forecast.	Croatian, English, Italian, German

CROATIA**Maritime Radio Station: Rijeka**

Region: VI
Position: 45°06'N 014°32'E
Call Sign: 9AR

24-hour watch

METAREA: III**Area Covered:** Adriatic Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 24		Vrh Ucka (Rijeka)	45°17'N 14°12'E	
VHF	A	Ch 20		Susak	44°31'N 14°12'E	
VHF	A	Ch 81		Savudrija	45°29'N 13°29'E	
VHF	A	Ch 04		Kamenjak (Otok Rab)	44°46'N 14°47'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0535, 1435, 1935	A	Weather bulletins for Adriatic sea. Navigational warnings: For coastal waters of Croatia.	Croatian, English

CROATIA**Maritime Radio Station: Split (Hvar I.)**

24-hour watch

Region: VI**Position:** 43°30'N 16°29'E**Call Sign:** 9AS**METAREA:** III**Area Covered:** Adriatic Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 23		Vidova Gora (Otok Brac)	43°17'N 16°37'E	
VHF	A	Ch 07		Sveti Mihovil (Otok Ugljan)	44°04'N 15°10'E	
VHF	A	Ch 21		Labistica (Split)	43°35'N 16°13'E	
VHF	A	Ch 28		Celavac	44°16'N 15°47'E	
VHF	A	Ch 81		Hum (Otok Vis)	43°01'N 16°07'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0545, 1245, 1945	A	Weather bulletins for Adriatic sea. Navigational warnings: For coastal waters of Croatia.	Croatian, English

CUBA**Maritime Radio Station: Cienfuegos**

Region: IV
Position: 22°08'N 80°27'W
Call Sign: --

METAREA: IV

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 760 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
2305	A		Spanish

Note: Station temp inop (April 2005).

CUBA**Maritime Radio Station: Habana**

Region: IV
Position: 23°10'N 82°19'W
Call Sign: CLA, CLT

METAREA: IV**Area Covered:** Cuba and surrounding waters

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 760 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0105, 1305	A	Hurricane warnings.	Spanish (1)
0403, 2203	A		Spanish
2310	A		Spanish

(1) After prior announcement on 2 182 kHz.

CUBA**Maritime Radio Station: Santiago de Cuba****Region:** IV
Position: 20°01'N 75°50'W
Call Sign: --**METAREA:** IV**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 760 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
2340	A		Spanish

Note: Station temp inop (April 2005).

CURAÇAO AND BONAIRE (NETHERLANDS ANTILLES)**Marine Rescue Co-ordination Centre: Curaçao Radio (JRCC)****Region:** IV**Position:** 12°10'N 68°52'W**Call Sign:** --

24-hour watch

METAREA: IV**Area Covered:** Caribbean Sea, Gulf of Mexico and the Atlantic south of 25°N and west of 45°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 182 kHz				
VHF	B	Ch16 26 27				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On request	A, B	Gale warnings, synopsis 24 hour, and 48 hour wind forecast, visibility and outlook forecast for Caribbean Sea.	English

Warnings are given from 15/07-14/11

CYPRUS**Maritime Radio Station: Cyprus**

Region: VI
Position: 35°03'N 33°17'E
Call Sign: --

H24

METAREA: III**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 700 kHz			35°03'N 33°17'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0733, 1533	A	For Eastern Mediterranean.	

DENMARK AND FAROE ISLANDS**Maritime Radio Station: Lyngby****Region:** VI

24-hour watch

Position:**Call Sign:** OXZ**METAREA:** I**Area Covered:** Danish coastal and internal waters

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 586 kHz		Ronne	55°02'N 15°06'E	
RT (MF)	A	1 758 kHz		Skagen	57°44'N 10°35'E	
RT (MF)	A	1 734 kHz		Blavand	55°33'N 08°07'E	
VHF	B	Ch 07		Als	54°58'N 09°33'E	
VHF	C	Ch 07		Anholt	56°42'N 11°35'E	
VHF	D	Ch 04		Arsballe	55°09'N 14°53'E	
VHF	E	Ch 23		Blavand	55°33'N 08°07'E	
VHF	F	Ch 02		Bovbjerg	56°32'N 08°10'E	
VHF	G	Ch 05		Fornaes	56°27'N 10°57'E	
VHF	H	Ch 03		Frejlev	57°00'N 0950'E	
VHF	I	Ch 01		Hanstholm	57°07'N 08°39'E	
VHF	J	Ch 66		Hirtshals	57°31'N 09°57'E	
VHF	K	Ch 28		Karleby	54°52'N 11°12'E	
VHF	L	Ch 03		Kobenhavn	55°41'N 12°37'E	
VHF	M	Ch 64		Laeso	57°17'N 11°03'E	
VHF	N	Ch 02		Mern (Mon)	55°03'N 11°59'E	
VHF	O	Ch 04		Rosnaes	55°44'N 10°55'E	
VHF	P	Ch 04		Skagen	57°44'N 10°35'E	
VHF	Q	Ch 01		Svendborg	55°02'N 10°37'E	
VHF	R	Ch 83		Vejby	56°05'N 12°08'E	
VHF	S	Ch 65		Vejle	55°40'N 09°30'E	

DENMARK AND FAROE ISLANDS

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 0533, 0933, 1333, 1733, 2133	A-S		English
0220, 0520, 0820, 1120, 1420, 1720, 2020, 2320	C, G, K, M-P	Navigational warnings: SHIPPOS information including positions of large vessels, actual watre levels and serial numbers of navigational warnings in force for Route T.	English, Danish
1305 (with traffic list broadcast)	A	Navigational warnings: Ice reports for Danish Waters in Baltic Ice Code.	English
On receipt	A	Gale and storm warnings for all Areas.	English, Danish
On receipt	A-S	Storm warnings.	
On receipt	B-S	Gale and storm warnings for Areas: Area 1 on D Area 2 on D, N Area 3 on B, D, K, L, N. Q Area 4 on C, G, H, J, L, M, O, P, R, S Area 5 on C, G, H, L, M, O, P, R, S Area 6 on F, I, J, M, P Area 8 on E, F, I, J Area 9 on E, F	English, Danish
On request	A-S	Gale warnings and forecast for all Areas.	English
On request	A-S	Navigational warnings: Ice reports for Danish Waters in Baltic Ice Code.	English

(1) Previous announcement on channel 16.

(2) Previous announcement on 2 182 kHz and channel 16.

DENMARK AND FAROE ISLANDS**Maritime Radio Station: Tórshavn Radio (Faeroes)**

Region: VI
Position: 62°01'N 06°47'W
Call Sign: OXJ

24-hour watch

METAREA: I**Area Covered:** Faroe Islands and surrounding waters

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 641 kHz				
VHF	B	Ch 26		Tórshavn	62°01'N 06°49'W	
VHF	B	Ch 23		Suouroy	61°25'N 06°45'W	
VHF	B	Ch 25		Fugloy	62°20'N 06°19'W	
VHF	B	Ch 24		Fugloy	62°20'N 06°19'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every even H+35	A, B	Storm and gale warnings for Areas 16-19.	Faeröese, English
On receipt	A, B	Storm and gale warnings for Areas 16-19.	English
On request	A	Forecast for areas 16-19.	

List of stations:
06011 Thorshavn
06066 Stauning Flyveplads
— Nolsø 61°58'N 06°37'W
— Sumbø 61°24'N 06°42'W

DJIBOUTI**Maritime Radio Station: Djibouti**

Region: I
Position: 11°35'N 43°07'E
Call Sign: J2A

METAREA: IX**Area Covered:** Red sea, gulf of Aden and Indian Ocean North of 10°S and West of 60°E (determination of areas: see map of weather forecast areas)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	464 kHz			11°35'N 43°07'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0430, 0900, 1700	A	12 hour forecast for Areas A00-A25. Navigational warnings: For coastal waters of Djibout, Red Sea and NW Indian Ocean.	French, English
On request (0600-1500)	A	Forecast for Areas D05, D15, D20.	French, English

DOMINICAN REPUBLIC**Maritime Radio Station: Santo Domingo Piloto**

Region: IV
Position: 18°28'N 69°53'W
Call Sign: --

METAREA: IV**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 182 kHz				1100-0500
RT (MF)	B	2 638kHz				1100-0500
RT (MF)	D	2 738kHz				1100-0500
VHF	E	Ch 12				1100-0500

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0300, 1700 On request	A-D	Forecast for coastal waters of Dominican Republic.	
On receipt On request	A-D	Storm warnings for coastal waters of Dominican Republic.	Spanish
On request	A-D		Spanish, English

ECUADOR**Marine Rescue Co-ordination Centre: Guayaquil, Radio IOA (Instituto Oceanografico Armada) o Radio Naval****Region:** III
Position:
Call Sign: HCG

24-hour watch

METAREA: XII**Area Covered:** 2°N-4°S; 79°W-95°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	A	1 515 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1200	A	Meteorological information in process.	Text SHIP SYNOP

ESTONIA**Maritime Radio Station: Tallinn**

Region: VI
Position: 59°28'N 24°21'E
Call Sign: UAH, UNS

24-hour watch

METAREA: I**Area Covered:** N.Sea/Gulf of Bothania/Finland
Baltic Sea Areas 5-10

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	450 kHz			59°28'N 24°21'E	(UNS)
RT (MF)	B	6 405 kHz			59°28'N 24°21'E	(UAH)

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1030	A, B	Summary and forecast of synoptic situation valid for 24 hours. Forecast of weather and sea waves valid for 24 hours. Summary and forecast of ice conditions for 24 hours. Forecast of weather for the following 2 days. Weather forecast valid for 3 days for Norwegian and North Seas.	Estonian repeated in English
2040	A	Summary and forecast of synoptic situation valid for 24 hours. Forecast of weather and sea waves valid for 24 hours. Summary and forecast of ice conditions for 24 hours.	Estonian repeated in English

FIJI**Maritime Radio Station: Suva****Region:** V**Position:****Call Sign:** 3DP

24-hour watch

METAREA: XIV**Area Covered:** Sea areas from 5°N to 25°S between 160°E and 180° and from the Equator to 25°S between 180° and 120°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 372 kHz				
RT (HF)	B	8 746 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0803, 1203, 1603, 2003 LT	A, B	Forecast for coastal waters of Fiji.	
On receipt At the end of the next silence period. Every H+03	A, B	Cyclone and storm warnings for coastal waters of Fiji.	

FINLAND**Marine Rescue Co-ordination Centre: Turku (MRCC)****Region:** VI

24-hour watch

Position:**Call Sign:** OFK**METAREA:** I**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 810 kHz		Helsinki	60°09'N 25°02'E	
RT (MF)	A	1 677 kHz		Mariehamn	60°07'N 19°57'E	
RT (MF)	A	1 638 kHz		Vaasa	63°18'N 21°06'E	
RT (MF)	A	1 719 kHz		Hailuoto	65°02'N 24°35'E	
VHF	B	Ch 26		Kemi	65°47'N 24°33'E	
VHF	B	Ch 86		Brando	60°25'N 21°03'E	
VHF	B	Ch 27		Hailuoto	65°02'N 24°35'E	
VHF	B	Ch 03		Hanko	59°50'N 22°56'E	
VHF	B	Ch 84		Kalajoki	64°18'N 24°11'E	
VHF	B	Ch 68		Turku	60°09'N 21°42'E	
VHF	B	Ch 28		Kokkola	63°50'N 23°09'E	
VHF	B	Ch 23		Korppoo	60°10'N 21°33'E	
VHF	B	Ch 25		Kotka	60°29'N 26°52'E	
VHF	B	Ch 04		Porkkala	59°59'N 24°26'E	
VHF	B	Ch 01		Sondby (Porvoo)	60°16'N 25°51'E	
VHF	B	Ch 02 26		Turku	60°27'N 22°20'E	
VHF	B	Ch 05		Helsinki	60°09'N 25°02'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0233, 0633, 1033, 1433, 1833, 2233	A,B	Navigational warnings: Coastal warnings in English. Local warnings.	English, Swedish, Finnish
0633, 1833	A,B	Forecast for Areas 1-5 and 7 including wave heights in the Northern Baltic.	English
0803	A,B	Navigational warnings: Ice breakers positions.	English
1033, 1833	A,B	Navigational warnings: Ice reports and icebreaker positions.	English
On receipt 0233, 0633, 1033, 1433, 1833, 2233	A,B	Gale warnings for Areas 1-5 and 7.	English

FRANCE

Marine Rescue Co-ordination Centre: Corsen (CROSS) (MRCC)

24-hour watch

Region: VI

Position: 48°24'N 04°47'W

Call Sign: --

METAREA: II

Area Covered: BULLETINS FOR OFFSHORE / HIGH SEAS AREAS:

Area Covered: West of Channel and Atlantic:

(a) Casquets; (e) Rochebonne; (i) Sole; (m) Irish Sea; (b) Ouessant; (f) Cantabrico; (j) Shannon; (n) Rockall; (c) Iroise; (g) Finisterre; (k) Fastnet; (o) Malin; (d) Yeu, (h) Pazenn; (l) Lundy; (p) Hebrides.

BULLETINS FOR COASTAL AREAS:

"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.

Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.

Coastal warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).

Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.

Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.

Coastal BMS are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 650 kHz (1)		Corsen	48°24'N - 04°47'W	
RT (MF)	B	2 677 kHz (1)		Corsen	48°24'N - 04°47'W	
VHF	C	Ch 79		Raz	48°02'N - 04°43'W	
VHF	D	Ch 79		Ouessant / Le Stiff	48°28'N - 05°03'W	
VHF	E	Ch 79		Batz	48°45'N - 04°02'W	
VHF	F	Ch 79		Bodic / Le Trieux	48°48'N - 03°05'W	
VHF	G	Ch 79		Cap Fréhel	48°41'N - 02°19'W	

FRANCE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0815, 2015 LT (2)	A, B	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Repetition: Gale/Storm warnings. General situation and development. Forecast for areas (a) to (p), valid for the following 24 hours. Further weather outlook.	French
On receipt. Every 2 hours thereafter until end of validity at every even H+03(2) LT	A, B	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a) to (p).	French
0445, 0703, 1303(*), 1903 LT	C	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0503, 0715, 1315(*), 1915 LT	D	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0515, 0733, 1333(*), 1933 LT	E	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0533, 0745, 1345(*), 1945 LT	F	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0545, 0803, 1403(*), 2003 LT	G	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
On receipt Every H+03	C-G	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Coastal BMS warnings.	French

Notes:

CROSS = Centres Régionaux Opérationnels de Surveillance et de Sauvetage

(1) After preliminary call on 2 182 kHz. The normal working frequency can be replaced, if necessary, by an alternative frequency indicated during the preliminary call on 2 182 kHz.

(2) Scheduled broadcasts may be suspended whilst SAR action is in progress.

(*) From 1 May to 30 September.

FRANCE**Marine Rescue Co-ordination Centre: Étrel (CROSS) (MRCC)****Region:** VI
Position: 47°40'N 03°12'W
Call Sign: --

24-hour watch

METAREA: II

Area Covered: BULLETINS FOR COASTAL AREAS:
 "Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.
 Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.
 Coastal BMS warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).
 Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.
 Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.
 Coastal BMS warnings are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 80		Penmarc'h	47°48'N - 04°22'W	
VHF	B	Ch 80		Groix	47°39'N - 03°30'W	
VHF	C	Ch 80		Belle-Île	47°19'N - 03°14'W	
VHF	D	Ch 80		Saint-Nazaire	47°28'N - 02°21'W	
VHF	E	Ch 80		Yeu	46°43'N - 02°23'W	
VHF	F	Ch 80		Les Sables d'Olonne	46°29'N - 01°48'W	
VHF	G	Ch 79		Chassiron	46°03'N - 01°25'W	
VHF	H	Ch 79		Soulac / Pointe de Grave	45°31'N - 01°07'W	
VHF	I	Ch 79		Cap Ferret	44°39'N - 01°15'W	
VHF	J	Ch 79		Contis	44°06'N - 01°19'W	
VHF	K	Ch 79		Biarritz	43°30'N - 01°33'W	
VHF	L	Ch 63		Étel	47°40'N - 03°12'W	
VHF	M	Ch 63		Chassiron	46°03'N - 01°25'W	

FRANCE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1303, 1903 LT	A	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0715, 1315, 1915 LT	B	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0733, 1333, 1933 LT	C	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0745, 1345, 1945 LT	D	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0803, 1403, 2002 LT	E	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0815, 1415, 2015 LT	F	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
Continuous broadcast every 6 mn	L	BULLETINS FOR COASTAL AREAS: from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
On receipt Every H+03	A-F, L	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Coastal BMS warnings	French
0703, 1303, 1903 LT	G	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0715, 1315, 1915 LT	H	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0733, 1333, 1933 LT	I	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0745, 1345, 1945 LT	J	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0803, 1403, 2003 LT	K	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
Continuous broadcast every 6 mn	M	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
On receipt Every H+03	G-K, M	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Coastal BMS warnings	French

NOTES:

CROSS = Centres Régionaux Opérationnels de Surveillance et de Sauvetage.

FRANCE

Marine Rescue Co-ordination Centre: Étrel (CROSS) (MRCC)

24-hour watch

Region: VI

Position: 47°40'N 03°12'W

Call Sign: --

METAREA: II

Area Covered: BULLETINS FOR COASTAL AREAS:
"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.
Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.
Coastal BMS warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).
Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.
Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.
Coastal BMS warnings are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

NOTES:

CROSS = Centres Régionaux Opérationnels de Surveillance et de Sauvetage.

FRANCE

Marine Rescue Co-ordination Centre: Gris-Nez (CROSS) (MRCC)

24-hour watch

Region: VI

Position: 50°52'N 01°35'E

Call Sign: --

METAREA: I

Area Covered: BULLETINS FOR OFFSHORE / HIGH SEAS AREAS:
Area Covered: South of the Nord Sea and Channel:
(a) Humber; (c) Pas de Calais; (e) Casquets; (b) Tamise; (d) Antifer; (f) Ouessant
Coastal Waters from the Belgian border to La Hague

BULLETINS FOR COASTAL AREAS:

"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.

Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.

Coastal BMS warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).

Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.

Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.

Coastal BMS warnings are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 650 kHz (1)		Gris-Nez	50°52'N – 01°35'E	
RT (MF)	B	2 677 kHz (2)		Gris-Nez	50°52'N – 01°35'E	
VHF	C	Ch 79		Dunkerque	51°03'N – 02°21'E	
VHF	D	Ch 79		Saint-Frieux / Gris-Nez	50°37'N – 01°36'E	
VHF	E	Ch 79		Saint-Valéry-en-Caux / L'Ailly	49°51'N – 00°42'E	

FRANCE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0833, 2033 LT (2)	A, B	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Repetition: Gale/Storm warnings. General situation and development. Forecast for areas (a) to (f), valid for the following 24 hours. Further weather outlook.	French
On receipt. Every 2 hours thereafter until end of validity at every odd H+03(2) LT	A, B	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a) to (d) (3).	French
0710, 1310, 1910 LT	D	BULLETINS FOR COASTAL AREAS from the Belgian border to la Baie de Somme: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0720, 1320, 1920 LT	C	BULLETINS FOR COASTAL AREAS from the Belgian border to la Baie de Somme: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
On receipt Every H+03	C-D	BULLETINS FOR COASTAL AREAS from the Belgian border to la Baie de Somme: Coastal BMS warnings.	French
0703, 1303, 1903 LT	E	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
On receipt Every H+03	E	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Coastal BMS warnings.	French

Notes:

CROSS = Centres Régionaux Opérationnels de Surveillance et de Sauvetage

(1) After preliminary call on 2 182 kHz. The normal working frequency can be replaced, if necessary, by an alternative frequency indicated during the preliminary call on 2 182 kHz.

(2) Scheduled broadcasts may be suspended whilst SAR action is in progress.

(3) Warnings for areas (e) and (f) are broadcast by CROSS Corsen.

FRANCE**Marine Rescue Co-ordination Centre: Jobourg (CROSS) (MRCC)**

Region: VI
Position: 49°41'N 1°54'E
Call Sign: --

24-hour watch

METAREA: I

Area Covered: BULLETINS FOR OFFSHORE / HIGH SEAS AREAS:
 Area Covered: Central Channel
 (a) Casquets; (b) Antifer

BULLETINS FOR COASTAL AREAS:

"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.

Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.

Coastal BMS warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).

Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.

Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.

Coastal BMS warnings are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 80		Jobourg Trafic	49°41'N - 01°54'E	
VHF	B	Ch 80		Antifer	49°31'N - 00°10'E	
VHF	C	Ch 80		Port-en-Bessin	49°21'N - 00°45'W	
VHF	D	Ch 80		Jobourg / La Hague	49°41'N - 01°54'W	
VHF	E	Ch 80		Granville	48°50'N - 01°36'W	

FRANCE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt. Every H+20, H+50	A	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS from la Baie de Somme to La Hague: Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a) and (b).	English
0733, 1333, 1933 LT	D	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0745, 1345, 1945 LT	C	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0803, 1303, 2003 LT	B	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	English
On receipt Every H+03	B-D	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Coastal BMS warnings.	French
0703, 1333, 1903 LT	E	BULLETINS FOR COASTAL AREAS: from La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0715, 1315, 1915 LT	D	BULLETINS FOR COASTAL AREAS: from La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
On receipt Every H+03	D-E	BULLETINS FOR COASTAL AREAS: from La Hague to Penmarc'h: Coastal BMS warnings.	French

NOTES:

CROSS = Centres Régionaux Operationnels de Surveillance et du Sauvetage

FRANCE

Marine Rescue Co-ordination Centre: La Garde (CROSS) (MRCC)

Region: VI
Position: 43°06'N 05°59'E
Call Sign: --

METAREA: III

Area Covered: BULLETINS FOR OFFSHORE / HIGH SEAS AREAS:
 Area Covered: Northern part of the Western Mediterranean Sea:
 (a) Est Cabrera; (c) Minorque; (e) Provence; (g) Corse; (i) Maddalena; (b) Baléares; (d) Lion; (f) Ligure; (h) Sardaigne; (j) Elbe

BULLETINS FOR COASTAL AREAS:

"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.

Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.

Coastal BMS warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).

Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.

Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.

Coastal BMS warnings are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 696 kHz (1)		La Garde (backup facility)	43°06'N – 05°59'E	
RT (MF)	A	1 696 kHz (1)		Porquerolles	42°59'N – 06°12'E	
RT (MF)	B	2 677 kHz (1)		La Garde (backup facility)	43°06'N – 05°59'E	
RT (MF)	B	2 677 kHz (1)		Porquerolles	42°59'N – 06°12'E	
VHF	C	Ch 64		Pic de Néoulos / Port Vendres	42°29'N – 02°56'E	
VHF	D	Ch 79		Mont Saint-Loup / Agde	43°18'N – 03°30'E	
VHF	E	Ch 80		Phare de l'île du Planier	43°12'N – 05°14'E	
VHF	F	Ch 80		Cap Camarat	43°12'N – 06°40'E	
VHF	G	Ch 63		Mont Coudon / Toulon	43°10'N – 06°00'E	
VHF	H	Ch 64		Pic de l'Ours / Cannes	43°28'N – 06°54'E	
VHF	I	Ch 79		Ersa / Cap Corse	42°58'N – 09°23'E	
VHF	J	Ch 79		Serra di Pigno / Bastia	42°41'N – 09°24'E	
VHF	K	Ch 79		Conça / Porto Vecchio	41°44'N – 09°23'E	
VHF	L	Ch 79		Serragia / Pointe Roccapina	41°31'N – 08°58'E	
VHF	M	Ch 79		La Punta/ Ajaccio	41°57'N – 08°42'E	
VHF	N	Ch 79		Piana/ Golfe de Porto	42°14'N – 08°37'E	

FRANCE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1000, 1600, 2200 LT (2)	A, B	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Repetition: Gale/Storm warnings. General situation and development. Forecast for areas (a) to (j), valid for the following 24 hours. Further weather outlook.	French
On receipt. Every 4 hours thereafter until end of validity at H+03 (1, 5, 9, 13, 17, 21 LT)	A, B	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a) to (j).	French
On receipt Every H+03	C-N	BULLETINS FOR COASTAL AREAS: All Mediterranean coastal areas: Coastal BMS warnings.	French
0733, 1333, 1933 LT	E	BULLETINS FOR COASTAL AREAS: Provence (from Port Camargue to Saint-Raphaël): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0746, 1346, 1946 LT	F	BULLETINS FOR COASTAL AREAS: Provence (from Port Camargue to Saint-Raphaël): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
Continuous broadcast every 15 mn	G	BULLETINS FOR COASTAL AREAS: Provence (from Port Camargue to Saint-Raphaël): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0733, 1333, 1933 LT	I	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0745, 1345, 1945 LT	J	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0803, 1403, 2003 LT	K	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0815, 1415, 2015 LT	L	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0833, 1433, 2033 LT	M	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0845, 1445, 2045 LT	N	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
Continuous broadcast every 15 mn	H	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0715, 1315, 1915 LT	D	BULLETINS FOR COASTAL AREAS: Languedoc-Roussillon (from Spanish border to Port-Camargue): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
Continuous broadcast every 15 mn	C	BULLETINS FOR COASTAL AREAS: Languedoc-Roussillon (from Spanish border to Port-Camargue): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French

FRANCE

Notes:

CROSS = Centres Régionaux Opérationnels de Surveillance et de Sauvetage

(1) After preliminary call on 2 182 kHz. The normal working frequency can be replaced, if necessary, by an alternative frequency indicated during the preliminary call on 2 182 kHz.

(2) Scheduled broadcasts may be suspended whilst SAR action is in progress.

FRENCH POLYNESIA**Maritime Radio Station: Mahina (Tahiti)**

Region: V
Position: 17°30'S 149°29'W
Call Sign: FJA

24-hour watch

METAREA: XIV**Area Covered:** Between 8°S and 28°S and from 134°W to 155°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 620 kHz				
RT (HF)	B	8 803 kHz				
VHF	C	Ch 27	Île du vent			
VHF	C	Ch 26	Île sous le vent			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0640 LT	B,C	The summary of islands' observations contains: "name of stations, cloud amount and present weather, wind direction and speed state of sea near the coasts".	French
0700 LT	A,C	The summary of islands' observations contains: "name of stations, cloud amount and present weather, wind direction and speed state of sea near the coasts". In French.	French
2100 LT	B,C	Gale/storm warnings. Forecasts valid 24 hours (1).	French
2200 LT	A,C	Gale/storm warnings. Forecasts valid 24 hours (1).	French

List of Stations:

91925 Atuona; 91930 Bora-Bora; 91938 Tahiti-Faaa; 91943 Takaroa; 91944 Hao; 91945 Hereheretue; 91946 Tureia; 91948 Rikitea; 91952 Mururoa; 91954 Tubuai; 91958 Rapa

(1) A gale/storm warning will precede or replace the forecasts when the forecast mean wind exceeds 25 knots. This warning will mention:

- the indication on the type of disturbance;
- the date and the time UTC;
- the type of disturbance, its position and movement;
- the area affected;
- the direction and force of wind in various sections of the area affected;
- further indications, if any

This warning is also broadcast, both on VHF and HF, at 0403, 1803 and 1833 UTC.

GERMANY**Marine Rescue Co-ordination Centre: Bremen Radio (MRCC)****Region:** VI**Position:** 53°05'N 08°48'E**Call Sign:** --

24-hour watch

METAREA: I**Area Covered:** North sea coast & Baltic coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16		Sylt	54°55'N 08°18'E	
VHF	A	Ch 16		Eiderstedt	54°20'N 08°47'E	
VHF	A	Ch 16		Hamburg	53°33'N 09°58'E	
VHF	A	Ch 16		Helgoland	54°11'N 07°53'E	
VHF	A	Ch 16		Bremen	53°05'N 08°48'E	
VHF	A	Ch 16		Cuxhaen	53°50'N 08°39'E	
VHF	A	Ch 16		Norddeich	53°34'N 07°06'E	
VHF	B	Ch 16		Rugen	54°21'N 13°45'E	
VHF	B	Ch 16		Arkona	54°35'N 13°37'E	
VHF	B	Ch 16		Darss	54°24'N 12°27'E	
VHF	B	Ch 16		Rostock	54°10'N 12°06'E	
VHF	B	Ch 16		Lubeck	54°13'N 10°43'E	
VHF	B	Ch 16		Kiel	54°18'N 10°07'E	
VHF	B	Ch 16		Flensburg	54°44'N 09°30'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
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On receipt
Repeated every H+00 & H+30 until
cancelled

A, B

Vital warnings for the Baltic and North Sea coasts of Germany.

GHANA**Maritime Radio Station: Tema Radio**

Region: I
Position: 05°39'N 00°03'W
Call Sign: 9GX

24-hour watch

METAREA: II
Area Covered: North sea coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 674 kHz				
RT (HF)	B	8 791 kHz (Ch 825)				
VHF	C	Ch 26		Takoradi	04°54'N 01°45'W	
VHF	D	Ch 27		Tema	05°38'N 00°00'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0800, 2000	C	Storm warnings and 24 hour forecast that may be repeated after 12 hours, for the offshore and coastal waters of Ghana. Navigational warnings: For the offshore and coastal waters of Ghana.	
0830, 2030	D	Storm warnings and 24 hour forecast that may be repeated after 12 hours, for the offshore and coastal waters of Ghana. Navigational warnings: For the offshore and coastal waters of Ghana.	
0900, 2100	B	Storm warnings and 24 hour forecast that may be repeated after 12 hours, for the offshore and coastal waters of Ghana. Navigational warnings: For the offshore and coastal waters of Ghana.	
0905, 2105 after traffic lists	A	Storm warnings and 24 hour forecast that may be repeated after 12 hours, for the offshore and coastal waters of Ghana. Navigational warnings: For the offshore and coastal waters of Ghana.	
On receipt	A, B	Storm warnings. Navigational warnings: For the offshore and coastal waters of Ghana.	

GREECE**Maritime Radio Station: Irakleio (Kriti)****Region:** VI
Position:
Call Sign: SVH**METAREA:** III**Area Covered:** Kithira Sea, SW Kritiko, SE Kritiko, Kastellorizo Sea, Rodos Sea, Karpathio, W Kritiko, E Kritiko, SW Aegean, SE Aegean Ikario, Samos Sea, Saronikos, Evvoikos, Kafireas Strait, C Aegean.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 799 kHz				0703-0903-1533-2133

GREECE

Maritime Radio Station: Kerkyra

Region: VI
Position:
Call Sign: SVK

METAREA: III

Area Covered: S Adriatic, N Ionio, S Ionio, Patraikos, Korinthiakos, Kithira

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 830 kHz				0703-0903-1533-2133

GREECE

Maritime Radio Station: Limnos

Region: VI
Position:
Call Sign: SVL

METAREA: III

Area Covered: Samos Sea, Saronikos, S Evvoikos, Kafireas Strait, Central Aegean, NW Aegean, NE Aegean, Thrakiko, Thermaikos

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 730 kHz				0703-0903-1533-2133

GREECE

Maritime Radio Station: Rodos

Region: VI
Position:
Call Sign: SVR

METAREA: III

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 624 kHz				0703-0903-1533-2133

GREENLAND (KALAALLIT NUNAAT)**Maritime Radio Station: Aasiaat**

Region: VI
Position: 68°41'N 52°50'W
Call Sign: OYR

Station keeping a watch for at least 30 minutes: beginning at 00, 06, 12, 18 UTC daily. A watch is also kept for at least 30 minutes at the beginning of the nearest "single operator period following the standard synoptic hours

METAREA: III

Area Covered: Greenland coastal waters. Weather forecast areas: Meqqitsoq, Attu, Uiffaq, Qimusseriarsuaq and Thule, see map.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	3 280 kHz		Uummannaq	70°47'N 52°07'W	
RT (MF)	A	2 265 kHz		Ikerasassuaq	60°04'N 43°10'W	
RT (MF)	A	6 522 kHz		Aasiaat	68°41'N 52°50'W	
RT (MF)	A	3 276 kHz		Upernavik	72°47'N 56°09'W	
RT (MF)	A	3 125 kHz		Sisimiut	66°55'N 53°40'W	
RT (MF)	A	2 129 kHz		Simiutaq	60°41'N 46°36'W	
RT (MF)	A	2 304 kHz		Qeqertarsuaq	69°14'N 53°31'W	
RT (MF)	A	2 225 kHz		Paamiut	62°00'N 49°43'W	
RT (MF)	A	2 400 kHz		Maniitsoq	65°24'N 53°52'W	
RT (MF)	A	2 116 kHz		Kook Island	64°04'N 52°01'W	
RT (MF)	A	4 381 kHz		Qeqertarsuaq	69°14'N 53°31'W	
VHF	B	Ch 25		Maniitsoq	65°24'N 53°52'W	
VHF	B	Ch 27		Aasiaat	68°41'N 52°50'W	
VHF	B	Ch 27		Arsuutaa	61°09'N 48°22'W	
VHF	B	Ch 28		Attup Uummannaq	67°58'N 53°47'W	
VHF	B	Ch 01		Ikerasassuaq	60°04'N 43°10'W	
VHF	B	Ch 25		Ilulissat	69°13'N 51°07'W	
VHF	B	Ch 24		Kangaamiut	65°50'N 53°21'W	
VHF	B	Ch 04		Qaarsorsuaq	72°42'N 56°05'W	
VHF	B	Ch 03		Uummannaq	70°47'N 52°07'W	
VHF	B	Ch 63		Uperniviuq Qaqqaa	71°10'N 52°57'W	
VHF	B	Ch 03		Top 775	60°01'N 44°34'W	
VHF	B	Ch 60		Tinumanersuaq	74°06'N 57°12'W	
VHF	B	Ch 01		Sisimiut	66°55'N 53°40'W	
VHF	B	Ch 28		Sermersooq	60°13'N 45°22'W	
VHF	B	Ch 03 04		Qingaaq	64°10'N 51°13'W	
VHF	B	Ch 28		Kangaarsuk	62°59'N 50°32'W	
VHF	B	Ch 26		Qaqatoqaa	66°38'N 52°50'W	
VHF	B	Ch 26		Kook Island	64°04'N 52°01'W	
VHF	B	Ch 24		Pingu	68°47'N 52°03'W	
VHF	B	Ch 23		Paamiut	62°00'N 49°43'W	
VHF	B	Ch 02		Niaqornaq	70°26'N 54°00'W	
VHF	B	Ch 23		Narsarsuaq	61°09'N 45°26'W	
VHF	B	Ch 24		Narsaq	60°54'N 46°01'W	
VHF	B	Ch 25		Nanortalik	60°09'N 45°15'W	
VHF	B	Ch 23		Uunartuarsuup Qaqqaa	69°16'N 53°32'W	

GREENLAND (KALAALLIT NUNAAT)

VHF

B

Ch 02 25

Qaqortoq

60°43'N 46°02'W

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0805, 1305, 1805, 2305(1)	A, B	Storm and gale warnings for Areas 5-14.	English, Greenlandic, Danish(2)
On receipt 0135, 0435, 0735, 1035, 1335, 1635, 1935, 2235 After Traffic Lists for the following 48 hours.	A	Navigational warnings: For areas 3-6.	English, Danish
On request	A, B	18 hour forecast for all Greenland areas. Navigational warnings: Ice reports (English and Danish only).	English, Greenlandic, Danish

(1) Broadcasts given 1 hour earlier when DST is in force.

(2) Scheduled warnings will be announced on 2182 kHz and Ch 16, other warnings will announced on DSC, then 2182 kHz and Ch 16 then read on the working frequencies. Repeated after the silence period more than half an hour from the first transmission.

GREENLAND (KALAALLIT NUNAAT)

Maritime Radio Station: Ammassalik

Region: VI
Position: 65°36'N 37°38'W
Call Sign: OZL

Station keeping a watch for at least 30 minutes: beginning at 00, 06, 12, 18 UTC daily. A watch is also kept for at least 30 minutes at the beginning of the nearest "single operator period following the standard synoptic hours

METAREA: I

Area Covered: Greenland coastal waters. Weather forecast areas for: Daneborg, Kangikajik, Aputiteeq, Kulusuk and Timmiarmiut, see map

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 381 kHz		Ammassalik	65°36'N 37°38'W	
RT (MF)	A	3 250 kHz		Ammassalik	65°36'N 37°38'W	
RT (MF)	A	2 250 kHz		Ammassalik	65°36'N 37°38'W	
VHF	B	Ch 26		Sermiligaaq	65°54'N 36°22'W	
VHF	B	Ch 25		Pingels Fjeld	65°44'N 37°03'W	
VHF	B	Ch 27		Kap Tycho Brahe	65°39'N 38°12'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0120, 0420, 0720, 1120, 1420, 1720, 2020, 2320, after traffic lists for the following 48 hours.	A	Navigational warnings: For areas 1 and 2.	English, Danish
On receipt 0805, 1305, 1805, 2305(1)	A, B	Storm warnings: Gale warnings for areas 1-5.	English, Greenlandic, Danish(2)
On request	A, B	18 hour forecast for all Greenland areas. Navigational warnings: Ice Reports.	English, Greenlandic, Danish

(1) Broadcasts given 1 hour earlier when DST is in force.

(2) Scheduled warnings will be announced on 2182 kHz and Ch 16, other warnings will announced on DSC, then 2182 kHz and Ch 16 then read on the working frequencies. Repeated after the silence period more than half an hour from the first transmission.

GREENLAND (KALAALLIT NUNAAT)**Marine Rescue Co-ordination Centre: Grønnedal****Region:** VI**Position:** 61°14'N 48°06'W**Call Sign:** --**METAREA:** IV**Area Covered:** Greenland coastal waters. Weather forecast areas for all coastal areas, see map

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch12		Kangilinnguit		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Gale warnings for Area 9.	English, Danish

GRENADA**Marine Rescue Co-ordination Centre: Grenada Coast Guard (S. Georges) (MRSC)****Region:** IV
Position: 12°08'N 61°41'W
Call Sign: J3YC**METAREA:** IV**Area Covered:** Caribbean Sea, Lesser Antilles and Atlantic waters to the east

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16 87				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On request	A	Forecast for coastal waters of Grenada and surrounding area.	

Main Station

- (1) These are times of Regional News Bulletins. Local warnings are given at the end.
- (2) 1945-2200.
- (3) 1000-0215.
- (4) Will extend normal operations to accommodate.

GUADELOUPE, ST. MARTIN, ST. BARTHELEMY**Marine Rescue Co-ordination Centre: ADRASEC (Guadeloupe)****Region:** IV**Position:****Call Sign:** --**METAREA:** IV**Area Covered:** Area 1: 25 miles around the coast.
Area 2: 10°N-20°N, 50°W-70°W.
Area 3: 10°N-20°N, 57°W-65°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	A	3 700 kHz				1 Jul - 31 Oct
AM	B	7 050 kHz				1 Jul - 31 Oct

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003	A, B	Area 2: Special advisories or bulletins. Dangerous meteorological phenomena. Area 3: Marine bulletin for the high seas: Storm warnings, weather summary, forecast for 24 hours from Trinidad to the Virgin Islands.	French

GUADELOUPE, ST. MARTIN, ST. BARTHELEMY**Marine Rescue Co-ordination Centre: Guadeloupe (CROSSAG)****Region:** IV**Position:****Call Sign:** --**METAREA:** IV

Area Covered: Area 1: 25 miles around the coast.
 Area 2: 10°N-20°N, 50°W-70°W.
 Area 3: 10°N-20°N, 57°W-65°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	A	Call:2182 Bcst:254	Guadeloupe			
FM	B	Call:Ch16 Bcst:Ch1	Guadeloupe			
FM	C	Call:Ch16 Bcst:Ch2	Guadeloupe			
FM	D	Ch 80	Guadeloupe	Vieux-Fort	15°57'N 61°45'W	
FM	D	Ch 80	Guadeloupe	Piton Sainte Rose	16°20'N 61°45'W	
FM	D	Ch 64	Guadeloupe	Marie-Galante	15°54'N 61°15'W	
FM	D	Ch 79	Guadeloupe	Morne-à-Louis	16°11'N 61°44'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1100-2300 H+30	B,C	AREA 1: Special advisories or bulletins. Dangerous meteorological phenomena.	French
1100-2300 H+33	B,C	AREA 2 & 3: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1200-0000 every 2 hours	A	AREA 2 & 3: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1200-1530-2300-0100; 1210-1540-2310-0110; 1220-1520-2320-0120; 1230-1600-2330-0130	D	AREA 1: Marine bulletin for coastal areas: Storm warnings, weather summary, forecast for 24 hours, last observations, hours for tides. Answering machine available at : 08 92 68 08 08.	French
1333, 2215	A	AREA 3: Marine bulletin for the high seas: Storm warnings, weather summary, forecast for 24 hours from Trinidad to the Virgin Islands. Answering machine available at: 08 92 68 08 08.	French, English
1530, 2300, 0100	B	AREA 1: Marine bulletin for coastal areas: Storm warnings, weather summary, forecast for 24 hours, last observations, hours for tides. Answering machine available at: 08 92 68 08 08.	

NOTE:

CROSSAG = Centre Régional Opérationnel de Surveillance et de Sauvetage Antilles Guyane)

GUAM**Marine Rescue Co-ordination Centre: Guam (USCG)**

Region: V
Position: 13°34'N 144°50'E
Call Sign: NRV

24-hour watch

METAREA: XI
Area Covered: Pacific area

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	6 501 kHz				
RT (HF)	B	13 089 kHz				
VHF	C	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0330, 2130	B	Navigational warnings: Maritime safety information including NAVAREA XII warnings.	
0900, 2100	C	Gale warnings for coastal waters of Guam. Gale warnngs, forecast for Guam and N Mariana islands. Navigational warnings: Maritime safety information including NAVAREA XII warnings.	
0930, 1530	A	Gale warnings, synopsis, forecast for the following areas: N Pacific Ocean - N of 30°N and E of a line from the Bering Strait to 50°N 160°E. NE Pacific Ocean - Equator to 30°N and E of 140°W. N Pacific Ocean - Equator to 30°N and 140°W to 160°E. Tsunami Watch / Warning for Central pacific, whilst in force. Navigational warnings: Maritime safety information including NAVAREA XII warnings.	
On receipt	C	Gale warnings for 0°-50°, 110°-180°.	

GUERNSEY**Maritime Radio Station: Saint Peter Port**

Region: VI
Position: 49°27'N 02°32'W
Call Sign: --

METAREA: I
Area Covered: Channel Islands (UK)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 764 kHz				
RT (MF)	A	1 764 kHz			49°27'N 2°32'W	
VHF	B	Ch 20 62				
VHF	B	Ch 20 62			49°27'N 2°32'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt On request	A, B	Navigational warnings: Local navigational warnings for Guernsey.	
On receipt On request	A, B	Navigational warnings: Local navigational warnings.	
On request	A, B	Weather bulletin for Guernsey.	
On request	A, B	Weather bulletins for Guernsey.	

GUINEA**Maritime Radio Station: Conakry****Region:** I
Position: 09°31'N 13°43'W
Call Sign: --**METAREA:** II**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 813 kHz			09°31'N 13°43'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0818	A	For coastal waters of Guinea.	French

HONG KONG, CHINA

Maritime Radio Station: Hong Kong

Region: II
Position: 22°13'N 114°15'E
Call Sign: VRX

METAREA: XI

Area Covered: For warnings of tropical cyclones: 10°N to 30°N, 105°E to 125°E.
For warnings of winds of force 8 or above: Hong Kong Marine Forecast Areas (see map).

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 812 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0533, 0933, 1333(1), 2233	A	Storm warnings, weather situation, 24 hour forecast of wind, significant weather and sea state for Areas 1-7, outlook for following 24 hours and latest reports from coasta weather stations.	Chinese, English

ICELAND**Maritime Radio Station: Hornafjörður**

Region: VI
Position: 64°15'N 15°13'W
Call Sign: TFT

METAREA: I**Area Covered:** Coastal districts and coastal waters of Iceland between 62°30'N and 67°N, from 12°W to 26°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 659 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	A	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

ICELAND**Maritime Radio Station: Isafjörður**

Region: VI
Position: 66°05'N 23°02'W
Call Sign: TFZ

METAREA: I**Area Covered:** Coastal districts and coastal waters of Iceland between 62°30'N and 67°N, from 12°W to 26°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 724 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	A	After preliminary announcement on 2 182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

ICELAND**Maritime Radio Station: Nes Radio (Neskaupstadur)**

Region: VI
Position: 65°09'N 13°42'W
Call Sign: TFM

METAREA: I**Area Covered:** Coastal districts and coastal waters of Iceland between 62°30'N and 67°N, from 12°W to 26°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 761 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 0503, 0803,1103, 1403, 1703, 2003, 2303	A	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

ICELAND**Maritime Radio Station: Reykjavik**

Region: VI
Position: 64°05'N 21°51'W
Call Sign: TFA, TFU

24-hour watch

METAREA: I

Area Covered: Greenland East coast (North Atlantic to Barents Sea)
 Coastal districts and coastal waters of Iceland between 63°N and 67°30'N, from 12°W to 27°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 876 kHz	TFA			H24
	B	189 kHz		Gufuskálar (TFU)		
	B	737 kHz		Eidar (TFU)		
	B	207 kHz		Reykjavik (TFU)		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0100, 0430, 0645, 1003, 1245, 1608, 2210	B	Part 1: ICE. Coastal waters of Iceland. Part 2: Weather situation Part 3: Forecasts valid for 24 to 36 hours for the areas (see map). Part 4: Synop	Icelandic
0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	A	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

NOTE:

The control centre for all the Radio Stations in Iceland is Reykjavik Radio. However the call signs for the other five radio stations: Hornarfjardar Radio (TFT), Isafjördur Radio (TFZ), Nes Radio (TFM), Siglufjördur Radio (TFX), and Vestmannaeyjar Radio (TFV) is still valid and in use.

ICELAND**Maritime Radio Station: Siglufjörður**

Region: VI
Position: 66°11'N 18°57'W
Call Sign: TFX

METAREA: I**Area Covered:** Coastal districts and coastal waters of Iceland between 63°N and 67°30'N, from 12°W to 27°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 883 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	A	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

ICELAND**Maritime Radio Station: Vestmannaeyjar**

Region: VI
Position: 63°24'N 20°17'W
Call Sign: TFV

METAREA: I**Area Covered:** Coastal districts and coastal waters of Iceland between 63°N and 67°30'N, from 12°W to 27°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 713 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	A	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

INDIA**Maritime Radio Station: Chennai (Madras)**

Region: II
Position: 13°05'N 80°17'E
Call Sign: VWMM

METAREA: VIII(N)

Area Covered: Indian Ocean/Arab.Gulf/Red Sea
 Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	515 kHz			13°05'N 80°17'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0548, 1548 On request	A	Navigational warning for the ara within 250 n miles of Chennai (Madras) to 15°N including Palk Strait.	English

INDIA**Maritime Radio Station: Kochi (Cochin)**

Region: II
Position: 09°58'N 76°56'E
Call Sign: VWN

24-hour watch

METAREA: VIII(N)

Area Covered: Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	460 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
H+00(1) 0420(2), 0820, 1220(2), 1620, 2020(2), 2320(3)	A	Situation, forecasts of wind, weather, visibility and sea state for coastal Area 7 and 9.	English
On receipt 0648, 1548 On request	A	Navigational warnings: For the area within 300 n miles of Kochi between 5°N and 12°N including the Lakshadweep Islands.	English

- (1) Transmission in the event of an unexpected development of a tropical storm.
- (2) Transmission in the event of a cyclonic storm having developed.
- (3) Transmission in the event of disturbed weather.

INDIA**Maritime Radio Station: Mumbai (Bombay)**

Region: II
Position: 18°55'N 72°50'E
Call Sign: VWB

24-hour watch

METAREA: VIII(N)

Area Covered: Indian Ocean/Arab.Gulf/Red Sea
 Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	500 kHz				
WT (MF)	B	521 kHz				
WT (HF)	C	8 630 kHz				
WT (HF)	D	12 710 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0420(2), 0820, 1220(2), 1620, 2020(2), 2320(3)	B-D	Situation, forecasts of wind, weather, visibility and sea state for coastal Areas 2, 3.	English
0448(2), 0848, 1248(2), 1648, 2048(2), 2348(3)	A, C, D	Storm warnings: for Arabian Sea (Sea area I).	English
0618, 1518	B-D	Met codes for Sea areas I.	FM 12 SYNOP FM 13 SHIP
0848, 1648	B-D	Synopsis and forecast. FM 46 IAC FLEET for Arabian Sea (Sea area I).	English
H+00(1)	A	Storm warnings.	
On receipt 0648, 1548 On request	B-D	Navigational warnings: For the area within 200 n miles of Bombay between 21°N and 17°N including Gulf of Khambat (Cambay).	English

- (1) Transmission in the event of an unexpected development of a tropical storm.
- (2) Transmission in the event of disturbed weather.
- (3) Transmission in the event of a cyclonic storm having developed.

INDIA**Marine Rescue Co-ordination Centre: Mumbai (Bombay) (COMCEN)****Region:** II
Position: 19°05'N 72°50'E
Call Sign: VTG**METAREA:** VIII(N)**Area Covered:** Indian Ocean/Arab Gulf/Red Sea
Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	A	2 072 kHz				
WT (HF)	B	4 268 kHz				
WT (HF)	C	6 467 kHz				
WT (HF)	D	8 634 kHz				
WT (HF)	E	12 808.5 kHz				
WT (HF)	F	16 938 kHz				
WT (HF)	G	22 378 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0500, 1500 on day of receipt or 1500 on day of receipt and 0500 following day. Repeated at 0900 on days 2, 5, 8, 12, 16, 20 and 24 (day of second main broadcast taken as day 1) On request	A-G	Navigational warnings: NAVAREA VIII warnings.	English
1500, 2100	C, D	For Areas B, C and E (North and South) and coastal forecasts for Indian coasts.	English
Sat: 0500, 1500	A-G	Navigational warnings: Numbers of all NAVAREA VIII warnings in force. Repeated at 0900 Sun, Wed.	English
Sun: 1215	A-G	Navigational warnings: Summary of important NAVAREA VIII warnings between 24 and 42 days old.	English

Note: Weather messages may be delayed or cancelled, without prior notice, owing to priority traffic.

INDIA**Maritime Radio Station: Tuticorin**

Region: II
Position: 08°47'N 78°10'E
Call Sign: VWT

24-hour watch

METAREA: VIII(N)

Area Covered: Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	487 kHz			08°47'N 78°10'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0648, 1548 On request	A	For the areas within 200 n miles of Tuticornin east of 77°E up to 10°N.	English

INDIA**Maritime Radio Station: Vishakhapatnam (COMCEN)**

Region: II
Position: 17°42'N 83°17'E
Call Sign: VTP

METAREA: VIII(N)

Area Covered: Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	474 kHz			17°42'N 83°17'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0548, 1548 On request	A	Navigational warnings: For the areas within 200 n miles of Vishakhapatnam between 14°30'N and 19°N.	English

Note: This service is only provided when COMCEN Mumbai (Bombay) (VTG) is off the air.

INDIA**Marine Rescue Co-ordination Centre: Vishakhapatnam (COMCEN)****Region:** II
Position: 17°42'N 83°17'E
Call Sign: VTP**METAREA:** VIII(N)**Area Covered:** Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	A	2 295 kHz				
WT (HF)	B	4 238 kHz				
WT (HF)	C	6 418 kHz				
WT (HF)	D	8 646 kHz				
WT (HF)	E	12 840 kHz				
WT (HF)	F	16 695 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0001	A-D	For Areas C and E (North and South) and coastal forecasts for Indian coasts.	English
0500, 1500 on day of receipt or 1500 on day of receipt and 0500 following day. Repeated at 0900 on days 2, 5, 8, 12, 16, 20 and 24 (day of second main broadcast taken as day 1)	A-F	Navigational warnings: Numbers of all NAVAREA VIII warnings in force. Repeated at 0900 Sun, Wed.	English
1600	B, D, E	For Areas C and E (North and South) and coastal forecasts for Indian coasts.	English
Sat: 0500, 1500	A-F	Navigational warnings: Numbers of all NAVAREAS VIII warnings in force. Repeated at 0900 Sun, Wed.	English
Sun: 1215	A-F	Navigational warnings: Summary of important NAVAREA VIII warnings between 24 and 42 days old.	English

INDONESIA**Maritime Radio Station: Jakarta**

Region: V
Position: 06°07'S 106°51'E
Call Sign: PKX

24-hour watch

METAREA: XI

Area Covered: Jawa (West Pacific Sea of Japan)
Area circumscribed by a line through: 0°S-119°E, 0°S-95°E, 10°S-95°E, 10°S-141°E, 5°N-141°E, 5°N-119°E

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	A	8 542 kHz		005250000		
WT (HF)	B	12 970.5		005250000		
RT (MF)	C	2 690		005250000		

IRAN, ISLAMIC REPUBLIC OF**Marine Rescue Co-ordination Centre: Bandar Abbas(MRCC)**

24-hour watch

Region: II**Position:** 27°08'N 57°04'E**Call Sign:** EQI**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 18			27°13'N 57°17'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530, 1230	A	For the Strait of Hormuz and the Persian Gulf. Navigational warnings: For the Strait of Hormuz and the Persian Gulf.	English, Farsi

IRAN, ISLAMIC REPUBLIC OF**Marine Rescue Co-ordination Centre: Bandar Imam Khomeyni (MRCC)****Region:** II
Position: 30°30'N 49°09'E
Call Sign: EQN**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 18			30°30'N 49°09'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530, 1230	A	For the Northwest of Persian Gulf. Navigational warnings: For the Northwest of Persian Gulf.	English, Farsi

IRAN, ISLAMIC REPUBLIC OF**Marine Rescue Co-ordination Centre: Bushehr (MRCC)****Region:** II
Position: 28°58'N 50°50'E
Call Sign: EQM**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 18			28°58'N 50°50'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530, 1230	A	For the Northwest of Persian Gulf. Navigational warnings: For the Northwest of Persian Gulf.	English, Farsi

IRAN, ISLAMIC REPUBLIC OF**Marine Rescue Co-ordination Centre: Chah Bahar (MRCC)****Region:** II
Position: 25°14'N 60°37'E
Call Sign: EQJ**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 18			25°14'N 60°37'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530, 1230	A	For the Gulf of Oman and the northern part of the Indian ocean. Navigational warnings: For the Gulf of Oman and the northern part of the Indian ocean.	English, Farsi

IRELAND**Marine Rescue Co-ordination Centre: Dublin (MRCC)**

24-hour watch

Region: VI**Position:** 52°23'N 06°04'W**Call Sign:** --**METAREA:** I**Area Covered:** Irish coastal waters

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 04		Carlingford	54°04'N 6°19'W	
VHF	B	Ch 83		Dublin	53°23'N 6°04'W	
VHF	C	Ch 83		Mine Head	52°00'N 7°35'W	
VHF	D	Ch 23		Rosslare	52°15'N 6°20'W	
VHF	E	Ch 02		Wicklow Head	52°58'N 6°00'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0033, 0433, 0833, 1233, 1633, 2033	A-E	Navigational warnings: For the E, SE and S coasta of Ireland and approaches	
0103, 0403, 0703, 1003, 1303, 1603, 1903, 2203 after announcement on Ch 16.	A-E	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Area Irish Sea.	
On receipt and repeated at the next one of the following times: 0033, 0633, 1233, 1833 after announcement on Ch 16	A-E	Gale warnings for Irish coastal waters up to 30 n miles offshore and Area Irish Sea. Small craft warning issued (Apr-Sept) for Irish coastal waters if winds of Beaufort Force 6 are expected up to 10 n miles offshore.	

IRELAND**Marine Rescue Co-ordination Centre: Malin Head (MRSC)**

24-hour watch

Region: VI**Position:** 55°22'N 07°21'W**Call Sign:** EJM**METAREA:** I**Area Covered:** Irish coastal waters

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 677 kHz		Malinhead	55°22'N 07°21'W	
VHF	B	Ch 23		Malinhead	55°22'N 07°21'W	
VHF	B	Ch 24		Glen Head	54°44'N 08°43'W	
VHF	B	Ch 02		Donegal Bay	54°22'N 08°31'W	
VHF	B	Ch 26		Clifden	53°30'N 09°56'W	
VHF	B	Ch 83		Belmullet	54°16'N 10°03'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0403, 0703, 1003, 1303, 1603, 1903, 2203 after announcement on Ch 16	A	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Area Irish Sea.	
On receipt and repeated at the next one of the following times: 0033, 0633, 1233, 1833 after announcement on Ch 16.	B	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Areas Irish Sea, Shannon, Rockall, Malin and Bailey. Small Craft Warning issued (Apr-Sept) for Irish coastal waters if winds of Beaufor Force 6 are expected up to 10 n miles offshore.	
On receipt(1) 0033, 0433, 0833, 1233, 1633, 2033	A, B	Navigational warnings: For North Channel, SW coast of Scotland, N, NW and W coasts of Ireland and approaches.	

IRELAND**Marine Rescue Co-ordination Centre: Valentia (MRSC)****Region:** VI**Position:** 51°56'N 10°21'W**Call Sign:** EJK

24-hour watch

METAREA: I**Area Covered:** Irish coastal waters

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 752 kHz				
VHF	B	Ch 24		Valentia	51°56'N 10°21'W	
VHF	B	Ch 28		Shannon	52°31'N 09°36'W	
VHF	B	Ch 04		Mizen	51°34'N 09°33'W	
VHF	B	Ch 04		Galway	53°18'N 09°07'W	
VHF	B	Ch 26		Cork	51°51'N 08°29'W	
VHF	B	Ch 23		Bantry	51°38'N 10°00'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0403, 0703, 1003, 1303, 1603, 1903, 2203 after announcement on Ch 16	B	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Areas Irish Sa, Sole, Fastnet and Shannon.	
0233, 0633, 1033, 1433, 1833, 2233	A, B	Navigational warnings: For S, SW and W coasts of Ireland and approaches.	
0833, 2033	A	Gale warnings, synopsis, 24 hour forecast for Areas Irish Shannon and Fastnet.	
On receipt and repeated at the next one of the following times: 0033, 0633, 1233, 1833, after announcement on Ch 16	B	Gale warnings for Irish coastal waters up to 30 n miles offshore and Area Irish Sea. Small Craft Warning issued (Apr-Sept) for Irish coastal waters if winds of Beaufort Force 6 are expected up to 10 n miles offshore.	
On receipt 0303, 0903, 1503, 2103	A	Gale warnings for Areas Shannon and Fastnet.	

ISRAEL**Maritime Radio Station: Hefa (Haifa)**

Region: VI
Position: 32°49'N 35°00'E
Call Sign: 4XO

24-hour watch

METAREA: III**Area Covered:** Delta, Crusade and South East Kritiko

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 649 kHz				
VHF	B	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A, B	Navigational warnings: Urgent navigational warnings	English
On request	A, B	Gale warnings, synopsis, 12 hour forecast and outlook for a further 12 hours for Areas Delta, Crusade and Taurus.	English

ITALY**Maritime Radio Station: Ancona (IPA)**

Region: VI
Position: 43°36'N 13°28'E
Call Sign: IPA

METAREA: III**Area Covered:** Northern and Central Adriatic (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 656 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 14, 15 (central and southern Adriatic). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 14 , 15.	Italian, English

ITALY**Maritime Radio Station: Augusta (IQA)**

Region: VI
Position: 37°14'N 15°14'E
Call Sign: IQA

METAREA: III**Area Covered:** Sicily Strait, Ionian Sea, Southern Adriatic

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 628 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 10, 11 (northern and southern Ionio). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 10, 11	Italian, English

ITALY**Maritime Radio Station: Bari (IPB)**

Region: VI
Position: 41°06'N 17°00'E
Call Sign: IPB

METAREA: III**Area Covered:** Southern Adriatic Sea, Northern and Southern Ionian Sea, Channel of Sicily (see map) (1)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 579 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 12, 13 (southern Adriatic and northern Ionio). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 12, 13.	Italian, English

ITALY**Maritime Radio Station: Cagliari (IDC)**

Region: VI
Position: 39°14'N 09°14'E
Call Sign: IDC

24-hour watch

METAREA: III**Area Covered:** Sardinian Channel, Sardinian Sea, Corsican Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 680 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 2, 3, 6, 7, 8, 9 (Sardinia sea, Sicily channel, central and southern Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 2, 3, 6, 7, 8, 9.	Italian, English

ITALY**Maritime Radio Station: Civitavecchia (IPD)**

Region: VI
Position: 42°02'N 11°50'E
Call Sign: IPD

METAREA: III

Area Covered: Northern and Central Tyrrhenian Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 888 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 5, 6, 7, 8, 9 (northern, central, southern Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 5, 6, 7, 8, 9.	Italian, English

ITALY**Maritime Radio Station: Crotone (IPC)**

Region: VI
Position: 39°03'N 17°08'E
Call Sign: IPC

METAREA: III**Area Covered:** Northern and Southern Ionian Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 663 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 11, 12 (northern and southern Ionio). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 11, 12.	Italian, English

ITALY**Maritime Radio Station: Genova (ICB)**

Region: VI
Position: 44°26'N 08°56'E
Call Sign: ICB

24-hour watch

METAREA: III**Area Covered:** Ligurian Sea, Northern Tyrrhenian Sea, Sea of Corsica (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 642 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 1,4 ,5 (Corsica sea, Ligurian sea, northern Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 1,4, 5.	Italian, English

ITALY**Maritime Radio Station: Lampedusa (IQN)**

Region: VI
Position: 35°30'N 12°36'E
Call Sign: IQN

METAREA: III**Area Covered:** Channel of Sicily (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 876 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for area 10 (Sicily strait). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for area 10.	Italian, English

ITALY**Maritime Radio Station: Livorno (IPL)**

Region: VI
Position: 43°29'N 10°21'E
Call Sign: IPL

METAREA: III**Area Covered:** Ligurian Sea, Northern and Central Tyrrhenian Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 925 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 4, 5, 6, 7 (Ligurian sea, northern and central Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 4, 5, 6, 7.	Italian, English

ITALY**Maritime Radio Station: Mazara del Vallo (IQQ)**

Region: VI
Position: 37°41'N 12°37'E
Call Sign: IQQ

METAREA: III**Area Covered:** Channel of Sicily (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 600 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for area 10 (Sicily strait). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for area 10.	Italian, English

ITALY**Maritime Radio Station: Messina (IDF)**

Region: VI
Position: 38°13'N 15°33'E
Call Sign: IDF

METAREA: III**Area Covered:** Southern Tyrrhenian Sea, Northern and Southern Ionian sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 789 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 8, 9, 11, 12 (southern Tyrrhenian, Sicily strait, southern Ionio). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 8, 9, 11 ,12.	Italian, English

ITALY**Maritime Radio Station: Napoli (IQH)**

Region: VI
Position: 40°51'N 14°10'E
Call Sign: IQH

24-hour watch

METAREA: III**Area Covered:** Central and Southern Tyrrhenian Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 632 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 6, 7, 8, 9 (central and southern Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 6, 7, 8, 9.	Italian, English

ITALY**Maritime Radio Station: Palermo (IPP)**

Region: VI
Position: 38°11'N 13°06'E
Call Sign: IPP

24-hour watch

METAREA: III**Area Covered:** Southern Tyrrhenian Sea, Channel of Sicily (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 852 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 8, 9, 10 (southern Tyrrhenian, Sicily strait). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 8, 9, 10.	Italian, English

ITALY**Maritime Radio Station: Porto Torres (IZN)**

Region: VI
Position: 40°50'N 08°24'E
Call Sign: IZN

METAREA: III

Area Covered: Sea of Corsica, Sea of Sardinia, Central Tyrrhenian Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 719 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 1, 2, 6, 7 (Sardinia sea, Corsica Sea, central Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 1, 2 ,6 , 7.	Italian, English

ITALY**Maritime Radio Station: Roma (IAR)****Region:** VI**Position:** 41°47'N 12°27'E**Call Sign:** IAR

24-hour watch

METAREA: III**Area Covered:** Europe, North Africa and Near East

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	G	19	Sicily	Monte lauro	37°07'N 14°50'E	
RTF (MF)	G	86	Sicily	Campo Lato Alto	37°16'N 15°12'E	
RTF (MF)	H	61	Sicily	Cefalu	38°01'N 13°58'E	
RTF (MF)	H	81	Sicily	Erice	38°02'N 12°35'E	
RTF (MF)	H	27	Sicily	Monte Pellegrino	38°10'N 13°22'E	
RTF (MF)	H	84	Sicily	Ustica	38°42'N 13°10'E	
RTF (MF)	H	22	Sicily Channel	Pantelleria	36°45'N 12°00'E	
RTF (MF)	I	85	Sicily	Forte Spuria	38°16'N 15°37'E	
RTF (MF)	I	19	Tyrrhenian Sea	Monte Mancuso	39°00'N 16°13'E	
RTF (MF)	J	26	Sicily	Gela	37°04'N 14°15'E	
RTF (MF)	J	25	Pelagie Islands	Lampedusa Ponente	35°30'N 12°36'E	
RTF (MF)	J	21	Pelagie Islands	Grecale	35°31'N 12°38'E	
RTF (MF)	J	25	Sicily	Mazzara de Vallo	37°41'N 12°37'E	
RTF (MF)	J	82	Sicily	Monte San Calogero	37°31'N 13°07'E	
RTF (MF)	K	84	Ionio Sea	Punta Stilo	38°27'N 16°36'E	
RTF (MF)	K	20	Ionio Sea	Capo Colonna	39°02'N 17°10'E	
RTF (MF)	K	79	Ionio Sea	Monte Titolo	40°00'N 16°36'E	
RTF (MF)	K	62	Ionio Sea	Capo delle Armi	37°57'N 15°41'E	
RTF (MF)	K	26	Ionio Sea	Monteparano	40°26'N 17°26'E	
RTF (MF)	L	27	Tyrrhenian Sea	Capri	40°33'N 14°15'E	
RTF (MF)	L	01	Tyrrhenian Sea	Posillipo	40°51'N 14°10'E	
RTF (MF)	L	25	Tyrrhenian Sea	Serra del Tuono	39°55'N 15°50'E	
RTF (MF)	L	62	Tyrrhenian Sea	Varco del Salice	40°17'N 15°50'E	
RTF (MF)	M	25	Tyrrhenian Sea	Castellaccio	44°26'N 08°56'E	
RTF (MF)	M	07	Tyrrhenian Sea	Monte Bignone	43°52'N 07°44'E	
RTF (MF)	M	27	Tyrrhenian Sea	Zoagli	44°19'N 09°19'E	
RTF (MF)	N	25	Tyrrhenian Sea	Monte cavo	41°45'N 12°43'E	
RTF (MF)	N	64	Tyrrhenian Sea	Monte Paradiso	42°05'N 11°51'E	
RTF (MF)	N	21	Tyrrhenian Sea	Formia	41°15'N 13°36'E	
RTF (MF)	N	01	Tyrrhenian Sea	Monte Argentario	42°24'N 11°10'E	
RTF (MF)	O	26	Tyrrhenian Sea	Gorgona	43°26'N 09°54'E	
RTF (MF)	O	61	Tyrrhenian Sea	Monte Nero	43°29'N 10°21'E	
RTF (MF)	A	05	Adriatic Sea	Abbate Argento	40°52'N 17°17'E	
RTF (MF)	A	27	Adriatic Sea	Bari	41°05'N 16°59'E	
RTF (MF)	A	02	Adriatic Sea	Montesardo	39°53'N 18°21'E	
RTF (MF)	B	81	Adriatic Sea	Casa d'orso	41°49'N 15°59'E	

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RTF (MF)	B	01	Adriatic Sea	Monte Calvario	42°05'N 14°40'E
RTF (MF)	C	65	Adriatic Sea	Silvi	42°34'N 14°05'E
RTF (MF)	D	26	Adriatic Sea	Monte Cero	45°15'N 11°40'E
RTF (MF)	D	01	Adriatic Sea	Piancavallo	46°05'N 12°32'E
RTF (MF)	D	02	Adriatic Sea	Monte Conero	43°33'N 13°36'E
RTF (MF)	D	25	Adriatic Sea	Forte Garibaldi	43°36'N 13°32'E
RTF (MF)	D	83	Adriatic Sea	Coconello	45°40'N 13°48'E
RTF (MF)	D	20	Adriatic Sea	Monte Secco	42°58'N 13°53'E
RTF (MF)	D	27	Adriatic Sea	Ravenna	44°25'N 12°12'E
RTF (MF)	E	19	Sardinia	Badde Urbana	40°09'N 08°37'E
RTF (MF)	E	62	Sardinia	Margine Rosso	39°14'N 09°14'E
RTF (MF)	E	04	Sardinia	Monte Serpeddi	39°22'N 09°18'E
RTF (MF)	E	82	Sardinia	Punta Campu Spina	39°22'N 08°34'E
RTF (MF)	F	85	Sardinia	Monte Limbara	40°51'N 09°10'E
RTF (MF)	F	28	Sardinia	Monte Moro	41°06'N 09°31'E
RTF (MF)	F	83	Sardinia	Monte Tului	40°16'N 09°35'E
RTF (MF)	F	26	Sardinia	Osilio	40°44'N 08°40'E
RTF (MF)	F	26	Sardinia	Porto Cervo	41°08'N 09°32'E
RTF (MF)	G	85	Sicily	Belvedere di Siracusa	37°05'N 15°13'E

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Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	--	<p>Near gale Warnings, synoptic situation, 12 or 18 hours forecast and outlook for a further 12 hours. A: for areas 12 and 13 (Northern Ionio & Southern Adriatic); B,C: for areas 12 and 14 (Central and Southern Adriatic); D: for areas 14, 15 (central & Northern Adriatic); E for areas 2,3,6-9 (Sardinia Sea, Sardinia Strait, Central and Southern Tyrrhenian Sea); F for areas 1,2,6 ,7 (Corsica Sea, Sardinia sea and Central Tyrrhenian Sea); G for areas 10 and 11 (Sicily Strait and Southern Ionio); H for areas 8,9,10 (Southern Tyrrhenian Sea and Sicily Strait); I: for areas 8,9,11,12 (Southern Tyrrhenian Sea and Ionio Sea); J: for area 10 (Sicily Strait); K: for areas 11,12 (Ionio Sea); L for areas 6,7,8,9 (Central and Southern Tyrrhenian Sea); M: for areas 1, 4 and 5 (Corsica Sea, Ligurian Sea and Northern Tyrrhenian Sea); N: for areas from 5 to 9 (Tyrrhenian Sea); O: for areas from 4 to 7 (Ligurian Sea, Central-Southern Tyrrhenian).</p>	Italian, English
On receipt	--	<p>Near gale Warnings. A: for areas 12 and 13 (Northern Ionio & Southern Adriatic); B,C: for areas 12 and 14 (Central and Southern Adriatic); D: for areas 14, 15 (central & Northern Adriatic); E: for areas 2,3,6-9 (Sardinia Sea, Sardinia Strait, Central and Southern Tyrrhenian Sea); F: for areas 1,2,6 ,7 (Corsica Sea, Sardinia sea and Central Tyrrhenian Sea); G: for areas 10 and 11 (Sicily Strait and Southern Ionio); H: for areas 8,9,10 (Southern Tyrrhenian Sea and Sicily Strait); I: for areas 8,9,11,12 (Southern Tyrrhenian Sea and Ionio Sea); J: for area 10 (Sicily Strait); K: for areas 11,12 (Ionio Sea); L: for areas 6,7,8,9 (Central and Southern Tyrrhenian Sea); M: for areas 1,4,and 5 (Corsica Sea, Ligurian Sea and Northern Tyrrhenian Sea); N: for areas from 5 to 9 (Tyrrhenian Sea); O: for areas from 4 to 7 (Ligurian Sea, Central-Southern Tyrrhenian).</p>	Italian, English

ITALY**Maritime Radio Station: San Benedetto del Tronto (IQP)**

Region: VI
Position: 42°57'N 13°53'E
Call Sign: IQP

METAREA: III**Area Covered:** Central Adriatic Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 855 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 14, 15 (central and northern Adriatic). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 14 , 15.	Italian, English

ITALY**Maritime Radio Station: Trieste (IQX)**

Region: VI
Position: 45°41'N 13°46'E
Call Sign: IQX

24-hour watch

METAREA: III**Area Covered:** Northern and Central Adriatic Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 624 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 14, 15 (central and northern Adriatic). Clear decoding of FM 12 SYNOP	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 14, 15	Italian, English

JAMAICA**Marine Rescue Co-ordination Centre: Kingston, Jamaica Coast Guard (MRCC)****Region:** IV**Position:****Call Sign:** --**METAREA:** IV**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	8 291 kHz				
VHF	B	Ch 13				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1430, 1930	B	Synopsis for SW, NW and E Caribbean, and forecasts for coastal waters of Jamaica.	
1330, 1830	A	Synopsis for SW, NW and E Caribbean, and forecasts for coastal waters of Jamaica.	
1330, 1830	A, B		
H+00	A	Hurricane and tropical storms which are imminent, affecting Jamaica only.	
H+30	B	Hurricane and tropical storms which are imminent, affecting Jamaica only.	

JAPAN**Marine Rescue Co-ordination Centre: Hiroshima (JCG MRCC)****Region:** II
Position: 34°23'N 132°20'E
Call Sign: --**METAREA:** XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 1015, 1615 LT	A	Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Ishigaki (JCG MRCC)****Region:** II
Position: 24°20'N 124°09'E
Call Sign: --**METAREA:** XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 1033, 1633 LT	A	Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Kagoshima (JCG MRCC)**

Region: II
Position: 31°33'N 130°33'E
Call Sign: --

METAREA: XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Storm warnings.	
On receipt 1020, 1620 LT	A	Navigational warnings: Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Kobe (JCG MRCC)****Region:** II**Position:** 34°27'N 134°55'E**Call Sign:** --**METAREA:** XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Storm warnings.	Japanese, English
On receipt 1033, 1633 LT	A	Navigational warnings: Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Kushiro (JCG MRCC)****Region:** II
Position: 42°59'N 144°23'E
Call Sign: --**METAREA:** XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16		Konbumori	42°57'N 144°32'E	
VHF	B	Ch 16		Hagigaoka	45°23'N 141°44'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1003, 1603 LT	B	Navigational warnings: Local warnings for the Wakkanai district.	Japanese, English
1025, 1625 LT	A	Navigational warnings: Local warnings for the Kushiro district.	Japanese, English
On receipt	A, B	Storm warnings for Hakodate. Navigational warnings: Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Maizuru (JCG MRCC)**

Region: II
Position: 35°27'N 135°19'E
Call Sign: --

METAREA: XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1020, 1620 LT	A	Weather bulletins. Navigational warnings: Local warnings.	Japanese, English
On receipt	A	Storm warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Moji (JCG MRCC)****Region:** II
Position: 33°52'N 130°35'E
Call Sign: --**METAREA:** XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Storm warnings.	Japanese, English
On receipt 1003, 1603 LT	A	Navigational warnings: Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Nagoya (JCG MRCC)****Region:** II
Position: 35°04'N 136°40'E
Call Sign: --**METAREA:** XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Storm warnings.	Japanese, English
On receipt 1010, 1610 LT	A	Navigational warnings: Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Naha (JCG MRCC)**
Region: II
Position: 26°09'N 127°46'E
Call Sign: --
METAREA: XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Storm warnings.	Japanese, English
On receipt	A	Storm warnings for Okinawa.	Japanese, English
On receipt 1010, 1610 LT	A	Navigational warnings: Local warnings.	Japanese, English
On receipt 1010, 1610 LT	A	Navigational warnings: Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Niigata (JCG MRCC)****Region:** II
Position: 37°55'N 139°03'E
Call Sign: --**METAREA:** XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1015, 1615 LT	A	Local navigational warnings.	Japanese, English
On receipt	A	Storm warnings and local Navigational warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Otaru (JCG MRCC)**

Region: II
Position: 43°12'N 141°00'E
Call Sign: --

METAREA: XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1033, 1633 LT	A	Navigational warnings: Local warnings for the Hakodate district.	Japanese, English
On receipt	A	Storm warnings for Hakodate and Sapporo. Navigational warnings: Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Sasebo (JCG MRCC)**

Region: II
Position: 33°09'n 129°44'E
Call Sign: --

METAREA: XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Storm warnings for Nagasaki.	Japanese, English
On receipt 1015, 1615 LT	A	Navigational warnings: Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Shiogama (JCG MRCC)****Region:** II**Position:** 38°19'N 141°02'E**Call Sign:** --**METAREA:** XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16		Komagamine	38°18'N 141°32'E	
VHF	A	Ch 16		Ryourizaki	39°02'N 141°51'E	
VHF	A	Ch 16		Same	40°29'N 141°36'E	
VHF	A	Ch 16		Hokkoku	41°17'N 141°07'E	
VHF	A	Ch 16		Kagura	37°13'N 140°49'E	
VHF	A	Ch 16		Jyunishin	39°32'N 141°58'E	
VHF	A	Ch 16		Kodomari	41°08'N 140°19'E	
VHF	A	Ch 16		Kodomari	41°08'N 140°19'E	
VHF	A	Ch 16		Iwaya	41°23'N 141°26'E	
VHF	B	Ch 16		Atsumi	38°37'N 139°38'E	
VHF	B	Ch 16		Ojika	39°54'N 139°45'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1025, 1625 LT	B	Navigational warnings: Local warnings for the Akita district.	Japanese, English
1033, 1633 LT	B	Navigational warnings: Local warnings for the Shiogama district.	Japanese, English
On receipt	A	Storm warnings for Sendai district.	Japanese, English
On receipt	A, B	Navigational warnings: Local warnings.	Japanese, English

JAPAN**Marine Rescue Co-ordination Centre: Yokohama (JCG MRCC)****Region:** II
Position: 35°14'N 139°55'E
Call Sign: --**METAREA:** XI**Area Covered:** West Pacific/Sea of Japan

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Storm warnings for Tokyo.	Japanese, English
On receipt 1020, 1620 LT	A	Navigational warnings: Local warnings.	Japanese, English

JERSEY**Marine Rescue Co-ordination Centre: Jersey Radio**
Region: VI
Position: 49°11'N 02°14'W
Call Sign: --

METAREA: I
Area Covered: Channel Islands (UK)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 25, 82(1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0645(2), 0745(2), 0845(2), 1245, 1845, 2245 On request	A	Near gale warnings, synopsis, 24 hour forecast and outlook for a further 24 hours for Channel Islands; S of 50°N, E of 3°W. Reports from meteorological observation stations.	
On receipt 0307, 0907, 1507, 2107	A	Near gale warnings for Channel Islands; S of 50°N, E of 3°W.	
On receipt 0433, 0833, 1633, 2033	A	Navigational warnings: For Channel Islands.	

JERSEY**Maritime Radio Station: Saint Helier Pierheads**

Region: VI
Position: 49°11'N 02°06'W
Call Sign: --

METAREA: I
Area Covered: Channel Islands (UK)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 18				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A	Automatic wind information broadcast every 2 minutes, comprising 10 minute mean wind speed / gust / direction.	

JERSEY**Marine Rescue Co-ordination Centre: Saint Helier Pierheads****Region:** VI
Position: 49°11'N 02°06'W
Call Sign: --**METAREA:** I
Area Covered: Channel Islands (UK)

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A	Automatic wind information broadcast every 2 minutes, comprising 10 minute mean wind speed / gust / direction.	

JORDAN**Maritime Radio Station: 'Aqaba****Region:** VI
Position: 29°33'N 35°00'E
Call Sign: --**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0815, 1815	A	Situation, forecast, wind and sea state, temperature and pressure tendencies for Gulf of Aqaba.	English

KIRIBATI**Maritime Radio Station: Tarawa****Region:** V
Position: 01°21'N 172°55'E
Call Sign: --**METAREA:** XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 388.4 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every even H+00	A	Gale warning, forecast for local waters.	

KUWAIT**Maritime Radio Station: Al Kuwayt (Kuwait)**

Region: II
Position: 29°23'N 47°39'E
Call Sign: 9KK

METAREA: IX

Area Covered: Coastal area of Kuwait.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 750 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530, 1730	A	12 hour forecast for coastal waters of Kuwait.	English

Note: Station reported temporarily inoperative (June 2004)

LATVIA**Marine Rescue Co-ordination Centre: Riga Rescue Radio (MRCC)****Region:** VI**Position:** 57°02'N 24°05'E**Call Sign:** --

24-hour watch

METAREA: I**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 71				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1503 LT (after navigational warnings) On request	A	Gale warnings and weather forecasts.	Latvian, English
0703, 1503 LT On request	A		Latvian, English
On receipt H+03, H+33	A	Gale warnings.	Latvian, English

Note: after prior announcement on VHF Ch 16 and 70 (DSC).

LIBYA**Maritime Radio Station: Tarabulus (Tripoli)**

24-hour watch

Region: I
Position: 32°54'N 13°11'E
Call Sign: 5AT

METAREA: III**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 182 kHz				
RT (MF)	B	2 197 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0833, 1733	B	Navigational warnings: For area between 10°E to 25°E and Libyan coast to 34°N.	
On receipt 0903, 1903	A	For area between 10°E to 25°E and Libyan coast to 34°N.	

LITHUANIA**Maritime Radio Station: Klaipeda (Radio 5) Klaipeda State Seaport Authority Harbour Master Office****Region:** VI
Position: 55°43'N 21°07'E
Call Sign: VTS

24-hour watch

METAREA: I**Area Covered:** South-Eastern Baltic Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				H24
VHF	A	Ch 09				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On request	A	Forecasts and gale warnings for Southeastern Baltic Sea and the port of Klaipeda areas.	Lithuanian, English, Russian

MALTA**Marine Rescue Co-ordination Centre: Malta Radio (RCC)****Region:** VI
Position: 35°49'N 14°32'E
Call Sign: 9HD

H24

METAREA: III**Area Covered:** Malta and 50 nautical mile radius

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 625 kHz				
VHF	B	160.65 MHz				
VHF	C	160.7 MHz				
VHF	D	160.75 MHz				
VHF	E	160.8 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0603	A-E	Gale, Moderate Gregale, Strong Gregale and Scend warnings are broadcast at end of the next silence period after receipt and at the nearest schedule time. Inference. Forecast for area valid 0600 -1800 UTC.	English
1003	A-E	Gale, Moderate Gregale, Strong Gregale and Scend warnings are broadcast at end of the next silence period after receipt and at the nearest schedule time. Inference. Forecast for area valid 0600 -1800 UTC.	English
1603	A-E	Gale, Moderate Gregale, Strong Gregale and Scend warnings are broadcast at end of the next silence period after receipt and at the nearest schedule time. Inference. Forecast for area valid 0600 -1800 UTC.	English
2103	A-E	Gale, Moderate Gregale, Strong Gregale and Scend warnings are broadcast at end of the next silence	English

MARTINIQUE

Marine Rescue Co-ordination Centre: ADRASEC (Martinique)

Region: IV

Position:

Call Sign: --

METAREA: IV

Area Covered: Area 1: 25 miles around the coast.
Area 2: 10°N-20°N, 50°W-70°W.
Area 3: 10°N-20°N, 50°W-65°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	A	3 700 kHz				1 Jul - 31 Oct
AM	B	7 050 kHz				1 Jul - 31 Oct

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003	A, B	Area 2: Special advisories or bulletins. Dangerous meteorological phenomena. Area 3: Marine bulletin for the high seas: Storm warnings, weather summary, forecast for 24 hours from Trinidad to the Virgin Islands.	French

Operational during cyclone season only 1 July-31 October

MARTINIQUE

Marine Rescue Co-ordination Centre: Martinique (CROSSAG)

Region: IV

Position:

Call Sign: --

METAREA: IV

Area Covered: Area 1: 25 miles around the coast.
Area 2: 10°N-20°N, 50°W-70°W.
Area 3: 10°N-20°N, 57°W-65°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	G	Call:2182 Bcst:254	Martinique	Martinique	14°36'N 61°04'W	
FM	H	Ch 11	Martinique			
FM	I	Call:Ch16 Bcst:Ch2	Martinique			
FM	J	Ch 80	Martinique	La Caravelle	14°45'N 60°55'W	
FM	J	Ch 64	Martinique	Grand-Rivière	14°52'N 61°11'W	
FM	J	Ch 80	Martinique	Bigot-Bellefontaine	14°41'N 61°08'W	
FM	J	Ch 79	Martinique	Le Marin	14°27'N 61°54'W	
FM	K	Call:Ch16 Bcst:Ch2	Martinique			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1100-2300 H+30	G-I	AREA 1: Special advisories or bulletins. Dangerous meteorological phenomena.	French
1100-2300 H+30	H,I	AREA 3: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1100-2300 H+33	H,K	AREA 2: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1120-1450-2220-0020; 1130-1500-2230-0030; 1140-1510-2240-0040; 1150-1520-2250-0050;	J	AREA 1: Marine bulletin for coastal areas: Storm warnings, weather summary, forecast for 24 hours, last observations, hours for tides. Answering machine available at: 08 92 68 08 08.	French
1200-0000 every 2 hours	G	AREA 2 & 3: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1333, 2215	G	AREA 3: Marine bulletin for the high seas: Storm warnings, weather summary, forecast for 24 hours from Trinidad to the Virgin Islands. Answering machine available at : 08 92 68 08 08.	French, English
1530, 2300, 0100	H,I	AREA 1: Marine bulletin for coastal areas: Storm warnings, weather summary, forecast for 24 hours, last observations, hours for tides. Answering machine available at : 08 92 68 08 08.	French

CROSSAG = Centre Régional Opérationnel de Surveillance et de Sauvetage Antilles Guyane)

MAURITIUS**Maritime Radio Station: Port Louis Harbour****Region:** I**Position:****Call Sign:** 3BB

24-hour watch

METAREA: VIII(S)**Area Covered:** Sea areas from 10°S to 30°S between 50°E and 60°E, and from the Equator to 30°S between 60°E and 90°E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 14 (1)				
RT (HF)	B	4 402 kHz (2)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0115, 0730(3), 1315, 1930(3)	B	Warnings, synopsis and forecast for Areas 8A1-8A7.	English
0205, 1405	A	For local fishing vessels, in the vicinity of the Nazareth Bank (14°S 60°40'E) and the Saya de Malha Bank (10°00'S 61°00'E).	English
0433, 1233, 1603	B		English
On receipt Repeated every 2 hours	A, B	Cyclone warnings: for areas 8A1-8A7.	English

(1) After announcement on Ch 16.

(2) After announcement on 2 182 kHz.

(3) Only when cyclone warning is in force.

MEXICO**Maritime Radio Station: Acapulco****Region:** IV
Position: 16°50'N 99°56'W
Call Sign: XFA**METAREA:** XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 25				
VHF	C	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, C		
0335, 0935, 1535	B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Chetumal****Region:** IV
Position: 18°30'N 88°17'W
Call Sign: XFP**METAREA:** IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Ciudad del Carmen****Region:** IV
Position: 18°39'N 91°50'E
Call Sign: XFB**METAREA:** IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Coatzacoalcos****Region:** IV
Position: 18°09'N 94°26'W
Call Sign: XFF**METAREA:** IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Cozumel****Region:** IV
Position: 20°28'N 86°58'W
Call Sign: XFC**METAREA:** IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Ensenada****Region:** IV
Position: 31°51'N 102°12'W
Call Sign: XFE**METAREA:** XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 25				
VHF	C	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, C		
0335, 0935, 1535	B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Lazaro Cardenas**
Region: IV
Position: 17°51'N 102°12'E
Call Sign: --

METAREA: XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 25				
VHF	C	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, C		
0335, 0935, 1535	B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Manzanillo****Region:** IV
Position: 19°01'N 104°19'W
Call Sign: XFM**METAREA:** XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 25				
VHF	C	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, C		
0335, 0935, 1535	B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Mazatlán**

Region: IV
Position: 23°10'N 106°26'W
Call Sign: XFL

METAREA: XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 25				
VHF	C	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, C		
0335, 0935, 1535	B	Weather messages for shipping.	

MEXICO**Marine Rescue Co-ordination Centre: Mexican Army****Region:** IV**Position:****Call Sign:** --**METAREA:** IV**Area Covered:** Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 12				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0915, 1515, 2115 (subject to delays up to 30 minutes)	A	Storm warnings and weather forecasts for the following regions: Region 1: from Mexico / US border to 23°N (Pta Jerez) Region 2: from 23°N (Pta Jerez) to 20°N Region 3: from 20°N east to 93°W Region 4: from 93°W to 87°W (Cabo Catoche) Region 5: from 22°N (Yucatan) to 18°N (Mexico / Belize border)	English

MEXICO**Maritime Radio Station: Pajaritos**

Region: IV
Position: 18°08'N 94°25'W
Call Sign: XFF

METAREA: IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 383.8 kHz				
VHF	B	Ch 16 71				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0320, 1520, 2120	B	Weather forecast for Gulf of Mexico.	English
0330, 1530, 2130	A	Weather forecast for Gulf of Mexico.	English

MEXICO**Maritime Radio Station: Progreso****Region:** IV
Position: 21°16'N 89°47'W
Call Sign: XFN**METAREA:** IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Puerto Vallarta****Region:** IV
Position: 20°46'N 105°37'W
Call Sign: --**METAREA:** XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 25				
VHF	C	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, C		
0335, 0935, 1535	B	Weather messages for shipping.	

MEXICO**Maritime Radio Station: Veracruz**

Region: IV
Position: 19°07'N 96°09'W
Call Sign: XFU

Watch kept for less than 30 minutes (station with limited hours of operation)

METAREA: IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, B	Weather messages for shipping.	

MONACO

Maritime Radio Station: Monaco

24-hour watch

Region: VI
Position: 43°43'N 07°25'E
Call Sign: 3AC

METAREA: III

Area Covered: AREA 1: Western part of the mediterranean. Offshore areas: (a)Est Cabrera; (b) Baléares; (c) Minorque; (d) Lion; (e) Provence; (f) Ligure; (g) Corse; (h) Sardaigne; (i) Maddalena; (j) Elbe; (k) Alboran; (l) Palos (m) Alger; (n) West Cabrera; (o) Annaba; (p) Tunisie; (q) Carbonara; (r) Lipari; (s) Circeo.

AREA 2: Eastern part of the Mediterranean (sea areas on chart of METAREA 3).

AREA 3: North of the western part of the Mediterranean. Offshore areas: (a)Est Cabrera; (b) Baléares; (c) Minorque; (d) Lion; (e) Provence; (f) Ligure; (g) Corse; (h) Sardaigne; (i) Maddalena; (j) Elbe.

AREA 4: METAREA 2 - offshore and High Seas

AREA 5: Western part of the Mediterranean. From coast to 20 n miles.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	13 146 kHz	3AC 12			
RT (HF)	B	17 260 kHz	3AC 16			
RT (HF)	C	22 768 kHz	3AC 22			
RT (HF)	D	4 363 kHz	3AC 4			
RT (HF)	E	8 728 kHz	3AC 8			
VHF	F	Ch 20 (1)				
VHF	G	Ch 22 (1)				
VHF	H	Ch 23				
VHF	I	Ch 24				
VHF	J	Ch 25				

MONACO

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0930	A-C, E	AREA 3: Repetition: Gale/storm warnings. General situation. Forecast by zones valid for 24 hours. Further weather outlook.	French, English
0930, 1403, 1930 LT	D, E	AREA 1: Repetition: Gale/storm warnings. General situation. Forecast by zones valid for 24 hours. Further weather outlook.	French, English
0930, 1403, 1930 LT	F, G	AREA 3: Repetition: Near gale warnings, Gale/storm warnings. Forecast valid for the next 24 hours. Further weather outlook.	French, English
1030	A, E	AREA 2: Repetition: Gale/storm warnings. General situation. Forecast by zones valid for 24 hours. Further weather outlook.	
Continuous broadcast updated 3 times a day (only for regular bulletins)	H	AREA 5: Côtes d'Azur: From Saint-Raphaël to Menton. Repetition: near gale warnings, gale/storm warnings. Forecast valid for the next 24 hours. Further weather outlook.	French, English
Continuous broadcast updated 3 times a day (only for regular bulletins)	I	AREA 5: Côtes de Corse (Corsican coasts) Repetition: near gale warnings, gale/storm warnings. Forecast valid for the next 24 hours. Further weather outlook.	French, English
Continuous broadcast updated 3 times a day (only for regular bulletins)	J	AREA 5: Provence from Port Camarague to Saint Raphaël Repetition: near gale warnings, gale/storm warnings. Forecast valid for the next 24 hours. Further weather outlook.	French, English

NOTE: Service assured on behalf of France.

(1) After announcement on Ch 16, including BMS (warnings) broadcast every hour at H+03.

MONTENEGRO**Maritime Radio Station: Bar**

24-hour watch

Region: VI
Position: 42°06'N 19°06'E
Call Sign: YUW

METAREA: III**Area Covered:** Adriatic Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 720.4 kHz				
VHF	B	Ch 16 24				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0850, 1420, 2050	A, B	Storm warnings, synopsis, 24 hour forecast for the Adriatic sea.	Serbian, English
After weather bulletins 0850, 1420, 2050	A, B	Navigational warnings: For coastal waters of Montenegro.	Serbian, English

NOTE: Urgent warnings are broadcast on receipt on 2182 kHz and Ch 16 and are repeated after the next quiet period on RT.

MOROCCO**Maritime Radio Station: Agadir**

Region: I
Position: 30°22'N 09°33'W
Call Sign: CND

24-hour watch

METAREA: II**Area Covered:** Coastal waters and area "LARGE MAROC".

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 911 kHz				
RT (MF)	B	13 080 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0937, 1637	A, B	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French

MOROCCO**Maritime Radio Station: Casablanca****Region:** I**Position:** 33°37'N 07°38'W**Call Sign:** CNP

24-hour watch

METAREA: II**Area Covered:** Coastal waters and area "LARGE MAROC"

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 586 kHz				
RT (MF)	B	2 182 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0945, 1645	A	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French
On receipt and H+33	B	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French

MOROCCO**Maritime Radio Station: Dakhla****Region:** I**Position:****Call Sign:** --**METAREA:** II**Area Covered:** Coastal waters and area "LARGE MAROC"

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	3 900 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0939, 1639	A	Situation-development-forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: gale, storm, hurricane and coastal swell warning for the area affected.	French

MOROCCO**Maritime Radio Station: Safi**

Region: I
Position: 32°18'N 9°15'W
Call Sign: CND

24-hour watch

METAREA: II**Area Covered:** Coastal waters and area "LARGE MAROC"

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 182 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt and H+03	A	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French

MOROCCO**Maritime Radio Station: Tanger**

Region: I
Position: 39°49'N 5°48'W
Call Sign: CNW

24-hour watch

METAREA: II**Area Covered:** Coastal waters and area "LARGE MAROC"

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 635 kHz				
RT (MF)	B	2 182 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt and H+03	A, B	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French

MOZAMBIQUE**Maritime Radio Station: Beira****Region:** I
Position: 19°50'S 34°52'E
Call Sign: C9C2 C9L**METAREA:** VII**Area Covered:** Sea area in the Mozambique channel from 12°S to 25°S.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 601 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0820, 0835, 1135, 1420, 2020(1)	A	Storm warnings, situation, 24 hour forecast for coastal waters of Mozambique.	Portuguese

(1) In Portuguese repeated in English.

NAMIBIA**Maritime Radio Station: Walvis Bay**

Region: I
Position: 23°03'S 14°38'E
Call Sign: ZSV4

24-hour watch

METAREA: VII**Area Covered:** Coastal waters 50 miles (approximately 100 km) seawards between Cunene River and Orange River, and the area Trades

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 764 kHz				
RT (MF)	B	2 182 kHz			23°03'S 14°37'E	
RT (HF)	C	4 357 kHz				
VHF	D	Ch 16		Lüderitz	26°46'N 15°21'E	
VHF	D	Ch 16		Walvis Bay	23°03'S 14°37'E	
VHF	E	Ch 23		Lüderitz	26°46'N 15°21'E	
VHF	E	Ch 26		Walvis Bay	23°03'S 14°37'E	
VHF	E	Ch 27		Rössing	22°30'S 14°47'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0905, 1605	A, C, E	Navigational warnings: Local NAVAREA VII and coastal warnings for the coastal waters and economic zone of Namibia.	
0935, 1635	A, C, E	Gale warnings, forecast for Areas 1, 2 and 9.	
1235	A, C, E	Coastal weather reports from meteorological observation stations Möwe Bay, Walvis Bay and Diaz Point	
On receipt	B, D	Storm warnings for areas 1, 2 and 9. Navigational warnings: Urgent NAVAREA VII and coastal warnings for the coastal waters and economic zone of Namibia.	

NETHERLANDS

Marine Rescue Co-ordination Centre: Netherlands Coastguard Radio

Region: VI

H24

Position:

Call Sign: PBK

METAREA: I

Area Covered: Thames, Humber, German Bight, Dogge

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	3 673 kHz		Scheveningen	52°06'N 4°15'E	
VHF	B	Ch 83		Woensdrecht	51°26'N 4°20'E	
VHF	B	Ch 83		West Terschelling	53°21'N 5°13'E	
VHF	B	Ch 83		Schoorl	52°43'N 4°39'E	
VHF	B	Ch 83		Renesse	51°44'N 3°49'E	
VHF	B	Ch 83		Hoorn	52°39'N 5°06'E	
VHF	B	Ch 83		Appingedam	53°20'N 6°52'E	
VHF	B	Ch 23		Westkapelle	51°32'N 3°27'E	
VHF	B	Ch 23		Schiermonnikoog	53°29'N 6°09'E	
VHF	B	Ch 23		Scheveningen	52°06'N 4°15'E	
VHF	B	Ch 23		Kornwerdezand	53°04'N 5°20'E	
VHF	B	Ch 23		Den Helder	52°27'N 4°35'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0333, 0733, 1133, 1533, 1933, 2333	A	Near gale warnings for Areas Dover, Thames, Humber, German Bight, Dogger, Fisher, Forties and Viking.	English
0333, 0733, 1133, 1533, 1933, 2333	B	Near gale warnings for Netherlands coastal waters up to 30 n miles offshore (including larger inland water districts).	English, Dutch
0805, 1305, 1905, 2305 LT	B	Forecast for Netherlands coastal waters up to 30 n miles offshore (including larger inland water districts).	English, Dutch
0940, 2140	A	Forecast for areas Dover, Thames, Humber, German Bight, Dogger, Fisher, Forties and Viking.	English
On receipt 0333, 0733, 1133, 1533, 1933, 2333	A, B	Navigational warnings: In English on A. In English and Dutch on B. (NEW navigtional warnings will be announced on Ch 16, but NOT on VHF DSC unless they contain vital information).	English, Dutch
On receipt 1133	A, B	Navigational warnings: Ice reports. In English on A. In English and Dutch on B. (NEW navigtional warnings will be announced on Ch 16, but NOT on VHF DSC unless they contain vital information).	English, Dutch

NEW AMSTERDAM ISLAND (FRANCE)**Maritime Radio Station: Martin de Vivies (New Amsterdam Island) OR Port-aux-Français (Kerguelen Island)****Region:** I**Position:****Call Sign:** FJY**METAREA:** VII**Area Covered:** Area from 30°S to 50°S and 50°E to 80°E

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	3 885 kHz	FJY4			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On request	A	Marine bulletin. Forecasts valid for 24 hours. Storm warnings.	French, English

NEW CALEDONIA**Maritime Radio Station: Nouméa****Region:** V**Position:** 22°16'S 166°28'E**Call Sign:** FJP

Watch kept for less than 30 minutes (station with limited hours of operation)

METAREA: X**Area Covered:** Caledonian Lagoon, Vanuatu, South-West Pacific

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0430	A	Bulletin C: general situation on South-West Pacific (equator/45°S 130°E/170°W) at 0000; Bulletin E: Forecast valid 24 hours from 0000 for the area (8S/167E, 20S/175E, 29S/168E, 20S/158E); Bulletin H: Wind forecast on Caledonian Lagoon 24 hours validity from 0000; If any, Bulletin A: Special Marine Weather bulletin.	French
0730	A	Bulletin C: general situation on South-West Pacific (equator/45S 130E/170W) at 0000; Bulletin E: Forecast valid 24 hours from 0000 for the area (8S/167E, 20S/175E, 29S/168E, 20S/158E); Bulletin H: Wind forecast on Caledonian Lagoon 24 hours validity from 0600; If any, Bulletin A: special marine weather bulletin.	French
1930	A	Bulletin C: general situation on South-West Pacific (equator/45S 130E/170W) at 1200; Bulletin E: Forecast valid 24 hours from 1200 for the area (8S/167E, 20S/175E, 29S/168E, 20S/158E) Bulletin H: Wind forecast on Caledonian Lagoon 24 hours validity from 1800; If any, Bulletin A: special marine weather bulletin.	French
2230	A	Bulletin C: General situation on South-West Pacific (equator/45S 130E/170W) at 1200; Bulletin E: Forecast valid 24 hours from 1200 for the area (8S/167E,20S/175E,29S/168E,20S/158E); Bulletin H: Wind forecast on Caledonian Lagoon 24 hours validity from 2100; If any, Bulletin A: special marine weather bulletin.	French

NEW ZEALAND

Maritime Radio Station: Taupo Maritime Radio

24-hour watch

Region: V
Position: 38°52'S 176°26'E
Call Sign: ZLM

METAREA: XIV

Area Covered: New Zealand coastal waters; 25°S-55°S, 160°E-120°E

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2207				
RT (HF)	B	4146			38°52'S 176°26'E	
RT (HF)	C	6224			38°52'S 176°26'E	
RT (HF)	D	8297			38°52'S 176°26'E	
RT (HF)	E	12 356			38°52'S 176°26'E	
RT (HF)	F	16 531			38°52'S 176°26'E	
VHF	G	Ch 67		Kaikoura	42°12'S 173°47'E	
VHF	G	Ch 67		Whangarei	35°32'S 174°05'E	
VHF	G	Ch 68		Cape Reinga	34°28'S 172°46'E	
VHF	G	Ch 67		Fox	43°36'S 169°46'E	
VHF	G	Ch 71		Auckland	36°56'S 174°35'E	
VHF	G	Ch 68		Akaraoa	43°43'S 172°57'E	
VHF	G	Ch 67		Waitaki	44°38'S 170°54'E	
VHF	G	Ch 68		Bluff	40°06'S 168°38'E	
VHF	G	Ch 67		D'Urville	40°51'S 173°52'E	
VHF	G	Ch 68		Farewell	40°38'S 172°38'E	
VHF	G	Ch 71		Fiordland	44°54'S 167°20'E	
VHF	G	Ch 67		Taranaki	39°18'S 174°05'E	
VHF	G	Ch 67		Wairarapa	41°19'S 175°46'E	
VHF	G	Ch 68		Picton	41°16'S 174°07'E	
VHF	G	Ch 68		Plenty	37°32'S 175°45'E	
VHF	G	Ch 67		Puysegur	46°09'S 166°51'E	
VHF	G	Ch 71		Runaway	37°32'S 177°59'E	
VHF	G	Ch 71		Stewart Island	46°56'S 167°52'E	
VHF	G	Ch 67 68 69 71		Great Barrier Is	36°20'S 175°31'E	
VHF	G	Ch 71		Cape Egmont	39°18'S 173°59'E	
VHF	G	Ch 71		Kaitaia	35°10'S 173°31'E	
VHF	G	Ch 68		Greymouth	42°24'S 171°21'E	
VHF	G	Ch 71		Chalmers	45°49'S 170°33'E	
VHF	G	Ch 69		Wanganui	39°49'S 174°56'E	
VHF	G	Ch 71		Wellington	41°14'S 176°47'E	
VHF	G	Ch 71		Westport	41°47'S 171°44'E	
VHF	G	Ch 68		Napier	39°45'S 176°51'E	
VHF	G	Ch 67		Tolaga	38°34'S 178°06'E	
VHF	H	Ch 60		Chatham Islands	43°43'S 176°35'W	
VHF	H	Ch 62		Pitt Islands	44°16'S 176°15'W	

NEW ZEALAND

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 0533, 0803, 1203, 1333, 1733, 2003 LT	A-C	Coastal reports for shipping.	
0133, 0533, 1333, 1733 LT	A-C	Meteorological warnings, synopsis and forecasts for New Zealand coastal areas. Navigational warnings: Coastal navigational warnings for New Zealand.	
0303(1), 0903(1), 1503(1), 2103(1) LT	C, E	Meteorological warnings in force for NAVAREA XIV. Navigational warnings: For NAVAREA XIV.	
0303(1), 1503(1) LT	C, E	Synopsis and forecast for area Southern.	
0333(1), 0933(1), 1533(1), 2133(1) LT	D, F	Meteorological warnings in force for NAVAREA XIV. Navigational warnings: For NAVAREA XIV.	
0333(1), 1533(1) LT	D, F	Synopsis and forecast for area Southern.	
0533, 0733, 1333, 1733, 2133	G	Meteorological warnings, synopsis and forecasts for New Zealand coastal areas. Navigational warnings: Coastal navigational warnings for New Zealand.	
0533, 0733, 1033, 1333, 1733, 2133 LT	G	Coastal reports for shipping.	
0603, 1403, 1803, 2203 LT(2)	H	Coastal reports for Chatham Islands.	
0903(1), 2103(1) LT	C, E	Synopsis and forecast for areas Subtropic, Forties and Pacific.	
0933(1), 2133(1)	D, F	Synopsis and forecast for areas Subtropic, Forties and Pacific.	
On receipt	A-C, G	Meteorological warnings, synopsis and forecasts for New Zealand coastal areas. Navigational warnings: Coastal navigational warnings for New Zealand.	
On request	A-C, G	Navigational warnings: Coastal navigational warnings for New Zealand.	

Notes: Maritime Safety Information will be announced prior to broadcast on VHF Ch 16.

(1) Broadcasts made 1 hour later when NZDT is in force.

(2) Chatham Is. Local Time is 45 minutes ahead of NZLT.

NORWAY**Maritime Radio Station: Bjørnøya**

Region: VI
Position: 74°31'N 19°01'E
Call Sign: LJB

METAREA: I

Area Covered: Bear I. - Waters surrounding Bjørnøya: Squares B4, C4, C5 (see map)
 In addition: January-February: Squares D6, D7; March-April-May-June: Squares C7, D6, D7; July-August-September-October:
 Squares A5, A6, B5, B6

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 722 kHz				
VHF	B	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On request	A,B	Weather warnings.	

NORWAY**Maritime Radio Station: Bjørnøya Meteo Radio****Region:** VI**Position:****Call Sign:** --**METAREA:** I**Area Covered:** Bear I.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 757 kHz(1)				
VHF	B	Ch 12(1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1005, 2205	A, B	Weather forecasts for October - June for Areas A3, A4, B4, C4-C6. Weather forecast for July - September for Areas A3-A6, B4-B6, C4-C6.	English, Norwegian

(1) After prior announcement on 2 182 kHz and VHF Ch 16.

NORWAY**Maritime Radio Station: Bodø Radio**

24-hour watch

Region: VI
Position: 67°16'N 14°23'E
Call Sign: LGP

METAREA: I**Area Covered:** North Atlantic to Barents Sea - Norwegian Sea Areas

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 710 kHz		Sandnessjoen	66°01'N 12°37'E	
RT (MF)	A	1 770 kHz		Bodø	67°16'N 14°23'E	
RT (MF)	A	1 659 kHz		Andenes	69°18'N 16°04'E	
VHF	B	Ch 64 21		Sortland, Stamnes	68°49'N 15°29'E	
VHF	B	Ch 27		Andenes, Ramnan	69°17'N 16°01'E	
VHF	B	Ch 26 66 (1)		Bodo, Ronvikfjell	67°18'N 14°27'E	
VHF	B	Ch 24 28 (1)		Hadsel, Storheia	68°33'N 14°52'E	
VHF	B	Ch 25 66 (1)		Harstad, Harstadasen	68°48'N 16°31'E	
VHF	B	Ch 19 78 (1)		Harstad, Sorollnes	68°44'N 16°50'E	
VHF	B	Ch 01		Leirfjord, Horva	66°01'N 12°49'E	
VHF	B	Ch 28		Lenvik, Kistefjell	69°18'N 18°08'E	
VHF	B	Ch 07		Lodingen, Fenes	68°24'N 15°58'E	
VHF	B	Ch 62 27 (1)		Meloy	66°51'N 13°39'E	
VHF	B	Ch 28		Mo I Rana, Vettahaugen	66°13'N 13°45'E	
VHF	B	Ch 65 22 (1)		Narvik, Veggen	68°28'N 17°10'E	
VHF	B	Ch 02 60 (1)		Tromso, Sandoy	70°03'N 18°33'E	
VHF	B	Ch 20		Vestvagoy, Kvalnes	68°21'N 13°58'E	
VHF	B	Ch 04 22 (1)		Vesteralen, Kraknes	68°57'N 15°01'E	
VHF	B	Ch 63 60 (1)		Vega, Gulsvagfjell	65°38'N 11°54'E	
VHF	B	Ch 03 78 (1)		Vaeroy	67°40'N 12°38'E	
VHF	B	Ch 81		Tysfjord, Hellandsberg	68°02'N 16°07'E	
VHF	B	Ch 07		Nesna	66°12'N 13°01'E	
VHF	B	Ch 07		Tromso, Tonsnes	69°43'N 19°08'E	
VHF	B	Ch 21		Sorfold, Stamnes	68°49'N 15°29'E	
VHF	B	Ch 81		Tromso, Hillesoy	69°39'N 18°00'E	
VHF	B	Ch 05 20 (1)		Traenfjord, Hestmannen	66°32'N 12°49'E	
VHF	B	Ch 63 79		Tjeldsundet, Balstadasen	68°34'N 16°17'E	
VHF	B	Ch 84 01 (1)		Svolvar, Raften	68°24'N 15°07'E	
VHF	B	Ch 23 60 (1)		Steigen, Smatindane	67°50'N 15°00'E	
VHF	B	Ch 25 22 (1)		Vevelstad, Vistenfjord	65°39'N 12°37'E	
VHF	B	Ch 26 01 (1)		Tromso, Roestbakken	69°39'N 18°57'E	

NORWAY

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1203, 2303 0233, 0633, 1033, 1433, 1833, 2233	A	Weather forecast for coastal waters off northern Norway 65°N to 70°N and from 0°W to 10°W. Area north and north-east of Iceland and north-eastern part of Denmark Strait. Norwegian, arctic and Barents Seas north of 70°N.	English, Norwegian
On receipt 0233, 0633, 1033, 1433, 1833, 2233	A, B	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings are repeated daily at 1033 for 7 days.	English, Norwegian
On request	A, B	Storm and gale warnings. Navigational warnings and ice reports.	English, Norwegian

NORWAY**Maritime Radio Station: Florø Radio**

24-hour watch

Region: VI
Position: 61°36'N 05°00'E
Call Sign: LGL

METAREA: I**Area Covered:** Norwegian coastal waters and adjacent areas within the economic zone (200 n.m.)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 782 kHz		Orlandet	63°40'N 9°33'E	
RT (MF)	A	1 680 kHz		Floro	61°36'N 5°00'E	
VHF	B	Ch 27		Bremanger	61°52'N 5°00'E	
VHF	B	Ch 79		Gulen	61°02'N 5°10'E	
VHF	B	Ch 60		Gudvangen	60°53'N 6°55'E	
VHF	B	Ch 27		Geiranger	62°06'N 7°13'E	
VHF	B	Ch 20		Foerde, Kinn	61°34'N 4°46'E	
VHF	B	Ch 81		Hareid,Hjorungnes	62°21'N 6°07'E	
VHF	B	Ch 81		Buholmraen, Yttervag	64°18'N 10°18'E	
VHF	B	Ch 78		Heidrun (Rig)	65°20'N 7°19'E	
VHF	B	Ch 22		Brattvag, Gamlemstvet	62°35'N 6°19'E	
VHF	B	Ch 07		Aurland	60°54'N 7°12'E	
VHF	B	Ch 79		Asgard B (Rig)	65°07'N 6°47'E	
VHF	B	Ch 21		Alesund, Nerlandshorn	62°21'N 5°33'E	
VHF	B	Ch 79		Alesund, Aksla	62°29'N 6°12'E	
VHF	B	Ch 01		Draugen (Rig)	64°21'N 7°47'E	
VHF	B	Ch 07		Mosvik, Skavlen	63°46'N 10°58'E	
VHF	B	Ch 28		Stjordal, Forbordsfjell	63°32'N 10°54'E	
VHF	B	Ch 28		Sogndal, Storehogen	61°10'N 7°08'E	
VHF	B	Ch 20		Rorvik, Falkhetta	64°53'N 11°14'E	
VHF	B	Ch 21		Oseberg A (Rig)	60°30'N 2°50'E	
VHF	B	Ch 78		Orskogfjellet	62°31'N 6°52'E	
VHF	B	Ch 66		Gullfaks A (Rig)	61°11'N 2°11'E	
VHF	B	Ch 21		Namsos, Spillumsaksla	64°27'N 11°32'E	
VHF	B	Ch 20		Tingvoll, Reinsfjell	62°56'N 7°56'E	
VHF	B	Ch 07		Molde	62°45'N 7°08'E	
VHF	B	Ch 60		Maloy, Raudeberg	62°00'N 5°09'E	
VHF	B	Ch 78		Littlefonni, Tjelbergodden	63°23'N 8°43'E	
VHF	B	Ch 01		Ligtvor - Valestrand	61°06'N 6°33'E	
VHF	B	Ch 27		Orland, Kopparen	63°48'N 9°45'E	
VHF	B	Ch 66		Kristiansund, Varden	63°07'N 7°42'E	
VHF	B	Ch 07		Norfjordeid, Sagtennene	61°54'N 6°07'E	

NORWAY

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1215, 2315	A	Weather forecast for North Sea, coastal waters off southern and western Norway including Haltenbank, area from Storegga-Haltenbank to Greenwich meridian, Norwegian sea between 63°N and 65°N and from 0° to 10°W.	English, Norwegian
On receipt 0233, 0633, 1033, 1433, 1833, 2233	A, B	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings are repeated daily at 1033 for 7 days.	English, Norwegian
On request	A, B	Storm and gale warnings. In English and Norwegian. Navigational warnings and ice reports.	

NORWAY**Maritime Radio Station: Høpen Meteo Radio****Region:** VI**Position:****Call Sign:** --**METAREA:** I**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 750 kHz				
VHF	B	Ch 12				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1105, 2305	A, B	Weather bulletins for Areas A5, A6, B5, B6, C5 and C6.	English, Norwegian

NORWAY**Maritime Radio Station: Jan Mayen**

Region: VI
Position: 70°57'N 08°40'W
Call Sign: LMJ

24-hour watch

METAREA: I

Area Covered: Jan Mayen I.
 Waters surrounding Jan Mayen: Square D2 (see map) - during the sealing season (15 March-5 May) squares C1, C2, C3, D1 and D3

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 743 kHz				
VHF	B	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1203, 2303	A	Weather forecast for coastal waters off Northern Norway 65°N to 70°N and from 0° to 10°W. Area north and north-east of Iceland and north-eastern part of Denmark Strait. Norwegian, Arctic and Barents Seas north of 70°N.	English, Norwegian
On request	A, B	Weather warnings. Navigational warnings and ice reports.	English, Norwegian

NORWAY**Maritime Radio Station: Jan Mayen Meteo Radio****Region:** VI**Position:****Call Sign:** --**METAREA:** I**Area Covered:** Jan Mayen I.
Waters surrounding Jan Mayen: Square D2 (see map) - during the sealing season (15 March-5 May) squares C1, C2, C3, D1 and D3

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 757 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1035, 2235	A	Weather forecast for November - February for Areas C3, D2 and D3. Weather forecast for March - October for Areas D1-D3 and C1-C3.	English, Norwegian

NORWAY

Maritime Radio Station: Rogaland Radio

24-hour watch

Region: VI
Position: 58°54'N 05°38'E
Call Sign: LGQ

METAREA: I

Area Covered: Norwegian coastal waters and adjacent areas within the economic zone (200 n.m.) - N.Sea/Gulf of Bothania/Finland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 785 kHz		Farsund	58°04'N 6°45'E	
RT (MF)	A	1 728 kHz		Bergen	60°43'N 4°53'E	
RT (MF)	A	1 692 kHz		Vigre	58°39'N 05°36'W	
VHF	B	Ch 79		Lindesnes, Skibmannsheia	58°01'N 7°04'E	
VHF	B	Ch 22		Bergen, Lindas, Gladihaug	60°35'N 5°20'E	
VHF	B	Ch 60		Bergen, Rundemanen	60°25'N 5°22'E	
VHF	B	Ch 78		Bjerkreim, Urdalsnipa	58°35'N 6°04'E	
VHF	B	Ch 66		Draupner (Rig)	58°11'N 2°28'E	
VHF	B	Ch 20		Ekofisk (Rig)	56°33'N 3°13'E	
VHF	B	Ch 01		Haugesund, Steinsfjeld	59°25'N 5°20'E	
VHF	B	Ch 22		Heimdal	59°34'N 2°14'E	
VHF	B	Ch 20		Lifjell, Sandnes	58°55'N 5°47'E	
VHF	B	Ch 07		Lista, Storefjell	58°09'N 6°43'E	
VHF	B	Ch 60		Mandal, Husheia	58°01'N 7°55'E	
VHF	B	Ch 79		Sand, Pestasen	59°29'N 6°15'E	
VHF	B	Ch 79		Sleipner A (Rig)	58°22'N 1°54'E	
VHF	B	Ch 81		Sotra, Pyttane	60°19'N 5°07'E	
VHF	B	Ch 28		Stavanger, Bokn	59°13'N 5°26'E	
VHF	B	Ch 07		Stord, Kattnakken	59°52'N 5°30'E	
VHF	B	Ch 81		Ula (Rig)	57°07'N 2°51'E	
VHF	B	Ch 22		Valhall (Rig)	56°17'N 3°24'E	
VHF	B	Ch 20		I. Hardanger, Grimo	60°24'N 6°39'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1215, 2315	A	Weather forecast for North Sea, coastal waters off southern and western Norway including Haltenbank, area from Storegga-Haltenbank to Greenwich meridian, Norwegian sea between 63°N and 65°N and from 0° to 10°W.	English, Norwegian
On receipt 0233, 0633, 1033, 1433, 1833, 2233	A, B	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings repeated daily at 1033 for 7 days.	English, Norwegian
On request	A, B	Storm and gale warnings. Navigational warnings: Ice reports.	

NORWAY**Maritime Radio Station: Svalbard Radio**

Region: VI
Position: 78°02'N 13°40'E
Call Sign: --

24-hour watch

METAREA: I**Area Covered:** Norwegian Sea Areas (Svalbard)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 731 kHz				
RT (MF)	B	4 357 kHz				
VHF	C	Ch 27		Isfjord	78°02'N 13°40'E	
VHF	C	Ch 25 21(1)		Kongsvegpasset	78°45'N 13°30'E	
VHF	C	Ch 26 20(1)		Bjomdalen, Longyearbyen	78°15'N 15°24'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1203, 2303	A, B	Weather forecast for coastal waters off northern Norway 65°N to 70°N and from 0° to 10°W. Area north and north-east of Iceland and north-eastern part of Denmark Strait. Norwegian, Arctic and Barents Seas north of 70°N.	English, Norwegian
On receipt 0233, 0633, 1033, 1433, 1833, 2233	A, C	Meteorological warnings.	English, Norwegian
On request	A, C	Storm and gale warnings. Navigational warnings and ice reports.	

(1) VHF channel will change to this channel during 2006.

NORWAY**Maritime Radio Station: Tjøme Radio**

24-hour watch

Region: VI**Position:** 59°05'N 10°25'E**Call Sign:** LGT**METAREA:** I**Area Covered:** Norwegian coastal waters, Swedish border - Lindesnes

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 66		Oslo, Tryvann	59°59'N 10°40'E	
VHF	A	Ch 21		Tjøme	59°05'N 10°25'E	
VHF	A	Ch 20		Svendsheia	58°04'N 7°59'E	
VHF	A	Ch 20		Risor, Ranvikheia	58°43'N 9°12'E	
VHF	A	Ch 01		Porsgrunn, Vealos	59°14'N 9°42'E	
VHF	A	Ch 27		Kristiansand, Dolsveden	58°04'N 7°59'E	
VHF	A	Ch 81		Lillesand, Justoy	58°12'N 8°21'E	
VHF	A	Ch 07		Halden, Hoyas	59°11'N 11°26'E	
VHF	A	Ch 22		Arendal, Hisoy	58°27'N 8°46'E	
RT (MF)	A	1 665 kHz		Tjøme	59°05'N 10°25'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0233, 0633, 1033, 1433, 1833, 2233	A	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings are repeated daily at 1033 for 7 days.	Norwegian, English
On request	A	Storm and gale warnings. Navigational warnings: Ice reports.	Norwegian, English

NORWAY

Maritime Radio Station: Vardø Radio

24-hour watch

Region: VI
Position: 70°22'N 31°06'E
Call Sign: LGV

METAREA: I

Area Covered: N.Sea/Gulf of Bothania/Finland - Norwegian Sea Areas

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 695 kHz		Berlevag	70°52'N 29°04'E	
RT (MF)	A	1 713 kHz		Vardø	70°22'N 31°06'E	
RT (MF)	A	1 635 kHz		Hammerfest	70°40'N 23°40'E	
VHF	B	Ch 84 20(1)		Karlsøy, Torsvåg	70°14'N 19°30'E	
VHF	B	Ch 28		Alta, Helligfjell	70°07'N 22°56'E	
VHF	B	Ch 27		Batsfjord, Hamnefjell	70°40'N 23°40'E	
VHF	B	Ch 23 07(1)		Berlevag, Berlevagfjell	70°52'N 29°05'E	
VHF	B	Ch 27		Hammerfest, Hammerfjell	70°41'N 23°40'E	
VHF	B	Ch 03 22(1)		Hammerfest, Tyven	70°38'N 23°42'E	
VHF	B	Ch 24 21(1)		Havoysund, Havoygavlen	71°00'N 24°36'E	
VHF	B	Ch 26 01(1)		Vardø, Domen	70°20'N 31°02'E	
VHF	B	Ch 28		Kirkenes	69°45'N 30°08'E	
VHF	B	Ch 02 20(1)		Lebesby, Oksen	70°58'N 27°21'E	
VHF	B	Ch 25 78(1)		Mehamn, Trollhetta	71°03'N 28°07'E	
VHF	B	Ch 26 79(1)		Nordkapp, Honningsvåg	70°59'N 25°54'E	
VHF	B	Ch 65 79(1)		Slkervpy. Stissmesfkeéé	70°01'N 20°59'E	
VHF	B	Ch 23 66(1)		Skjervoy, Stussnesfjell	70°01'N 20°59'E	
VHF	B	Ch 04 66(1)		Tana, Algasvarre	70°28'N 28°13'E	
VHF	B	Ch 25 60(1)		Varangerfjord, Torsvarde	70°06'N 29°49'E	
VHF	B	Ch 04 78(1)		Hasvik, Fuglen	70°39'N 21°58'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1203, 2303	A	Weather forecast for coastal waters off northern Norway 65°N to 70°N and from 0° to 10°W. Area north and north-east of Iceland and north-eastern part of Denmark Strait. Norwegian, Arctic and Barents Seas north of 70°N.	English
On receipt 0233, 0633, 1033, 1433, 1833, 2233	A, B	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings are repeated daily at 1033 for 7 days.	Norwegian, English
On request	A, B	Storm and gale warnings.	

(1) VHF channel will change to this channel during 2006.

PAKISTAN**Maritime Radio Station: Karachi****Region:** II
Position:
Call Sign: ASK**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
		Not in operation				00, 06, 12, 18 UTC

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0600, 1800 **		For weather bulletin.	

Radio Address: Karachi Radio ASK Malir Receiving Centre Wireless Gate Karachi

Station keeping a watch for at least 30 minutes, beginning at 00, 06, 12, 18 daily. A watch is also kept for a similar minimum time at the beginning of the nearest "single operator period" following those standard synoptic hours.

* Information to be obtained from Pakistan Navy

**0230, 0630, 1030, 1430, 1830, 2230 (for weather warning)

PAKISTAN**Marine Rescue Co-ordination Centre: Karachi NAVAL****Region:** II
Position:
Call Sign: AQP

24-hour watch

METAREA: IX
Area Covered: METAREA IX

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	2 457.5 kHz				1400-0200
WT (HF)	B	4 325 kHz				On request
WT (HF)	C	6 390 kHz				H24
WT (HF)	D	8 490 kHz				H24
WT (HF)	E	13 011 kHz				H24
WT (HF)	F	17 093.6 kHz				0200-1400
WT (HF)	G	22 425 kHz				On request

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200, 0400, 0600, 1000, 1200, 1400, 1800, 2200	A, C-F	Gale warnings, synopsis, forecast and 12 hour forecast (includes sea state) for Areas B00, B20, B25 and B30	
0200, 0600, 1000, 1400, 1800, 2200	A, C-F	Navigational warnings: Urgent NAVAREA IX warnings.	English
0400, 1200	A, C, F	Navigational warnings: NAVAREA IX warnings. Repeated on days 2, 5, 8, 12, 16, 20, 24 and thereafter on Fridays for important warnings.	English
0530, 1330, 2130	A, C-F	Gale warnings for Areas B00, B20, B25 and B30.	English
On request	B, G	Gale warnings, synopsis, forecast and 12 hour forecast (includes sea state) for Areas B00, B20, B25 and B30. Navigational warnings: Urgent NAVAREA IX warnings.	

(1) 0030 UTC broadcast is issued, if necessary, in the event of disturbance and invariably when a depression has formed.

(2) 0430, 1230 and 2030 UTC broadcasts are issued only on development of a cyclonic storm.

(3) 0830 and 1630 UTC broadcasts are daily broadcasts.

(4) Used in the event of interference.

(5) Special broadcasts at any hour are issued if observations received during the interval between two consecutive broadcasts indicate an unexpected development of a cyclonic storm or an unexpected movement of a cyclonic storm.

PAPUA NEW GUINEA**Maritime Radio Station: Port Moresby**

Region: V
Position: 09°28'S 147°11'E
Call Sign: P2M

Watch kept for less than 30 minutes (station with limited hours of operation)

METAREA: X

Area Covered: Papua, New Guinea waters

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 405 kHz				2100-1200
RT (HF)	B	6 510 kHz				2100-1200

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003, 0603	A, B	Gale warnings and 24 hour forecast for coastal waters of papua New Guinea, New Britain, Bougainville and Bismarck Archipelago.	
0603, 2203	A, B	Navigational warnings: For 0°-12°S, 141°E-160°E.	
Every even H+03	A, B	Gale warnings for 0°-12°S, 141°E-160°E	
On receipt	A, B	Storm warnings.	
On receipt At the end of the next even H+03	A, B	Navigational warnings: Urgent navigational warnings for 0°-12°S, 141°E-160°E.	

PHILIPPINES**Maritime Radio Station: Manila**

Region: V
Position: 14°34'N 120°59'E
Call Sign: --

METAREA: XI

Area Covered: Pacific waters inside the boundary line: 25°N, 120°E - 25°N, 135°E - 5°N, 135°E - 5°N, 115°E - 15°N, 115°E - 21°N, 120°E - 25°N, 120°E (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 776.8 kHz				
VHF	B	Ch 09 16 20				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030, 0330, 0630, 0930, 1230	A	Navigational warnings: For Philippines coastal waters.	
0030, 0330, 0630, 0930, 1230	A, B	Storm warnings, 24 hour forecast.	English
On receipt On request	A, B	Storm warnings.	English

POLAND**Maritime Radio Station: Slupsk****Region:** VI**Position:****Call Sign:** --**METAREA:** I**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 12				
VHF	B	Ch 71				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0705, 1235, 1835, 2335 LT	A	Forecast for fishermen and three day wind forecast for Areas 9 and 10.	
0715, 1245, 1845 LT	B	Navigational warnings: Coastal warnings.	English, Polish
On request	A	Navigational warnings: Ice reports.	

Note:
 Weather bulletins will be announced prior to broadcast on VHF Ch 16.
 Navigational warnings will be announced prior to broadcast on VHF Ch 12 and Ch 16.

POLAND**Maritime Radio Station: Witowo Radio**

Region: VI
Position: 54°33'N 16°32'E
Call Sign: SPS

H24

METAREA: I**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 720 kHz				
VHF	B	Ch 25		Swinoujscie		
VHF	B	Ch 24		Rozewi		
VHF	B	Ch 26		Rowokól		
VHF	B	Ch 26		Oksywie		
VHF	B	Ch 25		Krynica Morska		
VHF	B	Ch 24		Kolowo		
VHF	B	Ch 24		Kolobrzeg		
VHF	B	Ch 25		Jaroslawiec-Barzowice		
VHF	B	Ch 26		Grzywacz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 0533, 0933, 1333, 1733, 2133 LT On request	A, B	Navigational warnings: For Polish coastal waters.	English, Polish
0135, 0735, 1335, 1935 LT On request	A, B	Weather forecast for Areas 7-11 and Polish coastal waters.	English, Polish
1035, 1335 LT On request	A, B	Navigational warnings: Ice Reports.	English, Polish

POLAND**Maritime Radio Station: Zatoka Gdansk - Vessel Traffic Services****Region:** VI**Position:****Call Sign:** --**METAREA:** I**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 66				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0005, 0705, 1305, 1905 LT On request	A	Forecast for fishermen and three day wind forecast for Areas 9 and 10.	Polish
0105, 0805, 1405, 2005 LT On request	A	Forecast for fishermen and three day wind forecast for Areas 9 and 10.	English

Note: Weather bulletins and navigational warnings will be announced prior to broadcast on VHF Ch 16 and Ch 71.

PORTUGAL**Marine Rescue Co-ordination Centre: Cte. Nunes Ribeiro (Radionaval)****Region:** VI**Position:****Call Sign:** --**METAREA:** II**Area Covered:** AREA 1: Portuguese coastal waters, within 20 nautical miles offshore coast; northern zone (Rio Minho to Cabo Carvoeiro) and central zone (Cabo Carvoeiro to Cabo de S. Vicente).

AREA 2: Portuguese coastal waters, within 20 nautical miles offshore coast; northern zone (Rio Minho to Cabo Carvoeiro), central zone (Cabo Carvoeiro to Cabo de S. Vicente) and southern zone (Cabo S. Vicente to Rio Guadiana).

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 657 kHz		Monsanto	38°44'N 09°11'W	
VHF	B	Ch 11		Alges	38°44'N 09°11'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0905, 2105	A, B	AREA 1: Navigation warnings; Gale, Storm and Poor Visibility warnings; For 0705 UTC (1905 UTC) broadcast: Synopsis of 00UTC (12 UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC).	Portuguese repeated in English
0905, 2105	B	AREA 2: Navigation warnings; Gale, Storm and Poor Visibility warnings; For 0705UTC (1905 UTC) broadcast: Synopsis of 00 UTC (12 UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC).	Portuguese repeated in English

PORTUGAL**Marine Rescue Co-ordination Centre: Faro (Radionaval)****Region:** VI**Position:****Call Sign:** --**METAREA:** II**Area Covered:** Portuguese coastal waters, within 20 nautical miles off the coast; central zone (Cabo Carvoeiro to Cabo de S. Vicente) and southern zone (Cabo S. Vicente to Rio Guadiana).

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 11				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0805, 2005	A	Navigation warnings. Gale, Storm and Poor Visibility warnings. For 0805 UTC (2005 UTC) broadcast: Synopsis of 00 UTC (12 UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC).	Portuguese repeated in English

PORTUGAL**Marine Rescue Co-ordination Centre: Leixões (Radionaval)****Region:** VI**Position:****Call Sign:** --**METAREA:** II**Area Covered:** Portuguese coastal waters, within 20 nautical miles offshore coast; northern zone (Rio Minho to Cabo Carvoeiro) and central zone (Cabo Carvoeiro to Cabo de S. Vicente).

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 11				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0700, 1900	A	Navigation warnings;· Gale, Storm and Poor Visibility warnings;· For 0805 UTC (2005 UTC) broadcast: Synopsis of 00 UTC (12 UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC).	Portuguese

PORTUGAL (AZORES)**Marine Rescue Co-ordination Centre: Delgada (MRCC)**

Region: VI
Position: 37°44'N 25°40'W
Call Sign: --

METAREA: II**Area Covered:** Coasts of Açores within 20 nautical miles off the coast - Eastern Group

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 11			37°44'N 25°40'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0830, 2000	A	Navigation warnings. Gale, Storm and Poor Visibility warnings. For 0935 UTC (2135 UTC) broadcast: Synopsis of 00 UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC) to the 3 groups of the Açores Islands: Western Group: Flores and Corvo; Central Group: Terceira, S. Jorge, Faial and Graciosa; Eastern Group: S. Miguel and Santa Maria.	Portuguese

PORTUGAL (AZORES)**Marine Rescue Co-ordination Centre: Horta (Radionaval)****Region:** VI
Position: 38°32'N 28°38'W
Call Sign: CTH**METAREA:** II**Area Covered:** North Atlantic to Barents Sea
AREA 1: Coasts of Açores within 20 nautical miles off the coast Western and Central Group;
AREA 2: Eastern North Atlantic waters for : Sub-Zone 3: ALTAIR; Sub-Zone 5: AÇORES; Sub-Zone 7: IRVING; Sub-Zone 30:
MILNE; Sub-Zone 31: MARSALA

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 11			38°32'N 28°38'W	
RT (MF)	B	2 657 kHz			38°32'N 28°38'W	
VHF	C	Ch 11		Delgada		

PORTUGAL (AZORES)

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0830;2000 (LT)	C	<p>AREA 1: Navigation warnings. Gale, Storm and Poor Visibility warnings. For 0935 UTC (2135 UTC) broadcast: Synopsis of 00 UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC) to the 3 groups of the Açores Islands: Western Group: Flores and Corvo; Central Group: Terceira, S. Jorge, Faial and Graciosa; Eastern Group: S. Miguel and Santa Maria.</p>	Portuguese
0900, 2100	A	<p>AREA 1: Navigation warnings. Gale, Storm and Poor Visibility warnings. For 0935 UTC (2135 UTC) broadcast: Synopsis of 00 UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC) to the 3 groups of the Açores Islands: Western Group: Flores and Corvo; Central Group: Terceira, S. Jorge, Faial and Graciosa; Eastern Group: S. Miguel and Santa Maria.</p>	Portuguese
0935, 2135	B	<p>AREA 1: Navigation warnings. Gale, Storm and Poor Visibility warnings. For 0935 UTC (2135 UTC) broadcast: Synopsis of 00 UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC) to the 3 groups of the Açores Islands: Western Group: Flores and Corvo; Central Group: Terceira, S. Jorge, Faial and Graciosa; Eastern Group: S. Miguel and Santa Maria.</p> <p>B: Navigation warnings within 200 nautical miles offshore coast of Açores; Gale, Storm and Poor Visibility warnings; For 0705UTC (1905UTC) broadcast: Synopsis of 00UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06UTC (18UTC).</p>	Portuguese
0935, 2135	B	<p>AREA 2: Navigation warnings within 200 nautical miles offshore coast of Açores; Gale, Storm and Poor Visibility warnings; For 0705UTC (1905UTC) broadcast: Synopsis of 00UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06UTC (18UTC).</p>	Portuguese repeated in English

PORTUGAL (MADEIRA)**Marine Rescue Co-ordination Centre: Porto Santo (Radionaval)****Region:** I
Position: 33°04'N 16°21'E
Call Sign: --**METAREA:** II**Area Covered:** AREA 1: Coasts of Madeira within 20 nautical miles off the coast.

AREA 2: Eastern North Atlantic waters for: Sub-Zone 8: MADEIRA; Sub-Zone 21: CASABLANCA; Sub-Zone 22: AGADIR

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 11				
	B	2 657 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0735, 1935	B	AREA 2: · Navigation warnings within 200 nautical miles offshore coast of Madeira; Gale, Storm and Poor Visibility warnings;· For 0705 (1905) broadcast: Synopsis of 00 (12) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 (18).	Portuguese
0735, 1935	B	AREA 1: · Navigation warnings;· Gale, Storm and Poor Visibility warnings;· For 0705 (1905) broadcast: Synopsis of 00 (12) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 (18).	Portuguese repeated in English
1030, 1630	A	AREA 1: · Navigation warnings;· Gale, Storm and Poor Visibility warnings;· For 0705 (1905) broadcast: Synopsis of 00 (12) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 (18).	Portuguese

PUERTO RICO**Marine Rescue Co-ordination Centre: San Juan (USCG)**
Region: IV
Position: 18°28'N 67°04'W
Call Sign: NMR

24-hour watch

METAREA: IV
Area Covered: Atlantic area

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22 CH			18°28'N 67°04'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1210, 2210	A	Storm warnings, forecast and synopsis for E Caribbean E of 70°W, Puerto Rico, Virgin Islands and adjacent waters out to 20 n miles. Navigational warnings: Local warnings.	
On receipt	A	Storm warnings. Navigational warnings: Local warnings.	

QATAR**Maritime Radio Station: Ad Dawhah (Doha)**

Region: II
Position: 25°42'N 16°32'E
Call Sign: --

METAREA: IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 768 kHz				
VHF	B	Ch 16				
VHF	C	Ch 24				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0433, 0833, 1233, 1633	A, C	Gale warnings for all areas. Navigational warnings: For Persian Gulf, Gulf of Oman and coastal waters of Qatar.	
0503, 1003, 1603	A, C	Gale warnings, synopsis and forecast for all areas.	
On receipt	A, B	Gale warnings for all areas. Navigational warnings: For Persian Gulf, Gulf of Oman and coastal waters of Qatar.	

REPUBLIC OF KOREA**Maritime Radio Station: Cheju (Jeju)**

Region: II
Position: 33°29'N 126°30'E
Call Sign: HLE

METAREA: XI

Area Covered: Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 299 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0902, 1702	A		Korean, English

REPUBLIC OF KOREA**Maritime Radio Station: Inch'on (Incheon)**

Region: II
Position: 37°25'N 126°39'E
Call Sign: HLC

24-hour watch

METAREA: XI**Area Covered:** Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	2 284 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003	A		Korean, English
0003	A		Korean, English

REPUBLIC OF KOREA**Maritime Radio Station: Kangnung (Gangneung)**

Region: II
Position: 37°46'N 128°54'E
Call Sign: HLK

METAREA: XI

Area Covered: Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 836 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0903	A		Korean, English

REPUBLIC OF KOREA**Maritime Radio Station: Kunsan (Gunsan)**

Region: II
Position: 35°59'N 126°43'E
Call Sign: HLN

METAREA: XI

Area Covered: Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 507 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0403	A		Korean, English

RÉUNION

Marine Rescue Co-ordination Centre: Réunion (CROSSRU) (MRCC)

Region: I
Position: 20°54'S 55°36'E
Call Sign: --

METAREA: VIII(S)

Area Covered: Area from: 05°S to 30°S and 30°E to 90°E

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 600 kHz (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0503 and on request	A	Marine bulletins valid for the next 24 hours.	French
H+15 from (0400-1600) (2)(3)	A	Special Marine weather bulletin: gale/storm/hurricane and cyclone warnings, and warnings of calm and cancellation. Broadcasts carried out for the transmission of a special Marine weather bulletin concerning the area are continued until H+8 hours, H being the time at which the bulletin concerning a calm or cancellation is prepared.	French, English

(1) After preliminary call on 500 kHz and 2182 kHz. In the case of special Marine bulletins, the call is preceded by the safety signal TTT.

(2) When a special Marine weather bulletin is present, it is broadcast every hour from 0400 to 1600 UTC (H+15 by A1A and H+03 by J3E). In the event of a tropical cyclone watch or warning in La Reunion, the bulletin is broadcast from 0000 to 2400 UTC.

(3) On Sundays and public holidays from 0400 to 1100 UTC.

ROMANIA**Maritime Radio Station: Constanta (Constantza) Radio**

Region: VI
Position: 44°06'N 28°37'E
Call Sign: YQI

24-hour watch

METAREA: III

Area Covered: Western part of the Black Sea:
 45°13'N 29°40'E; 49°09'N 29°58'E; 44°30'N 30°16'E; 44°15'N 30°24'E; 43°41'N 30°32'E; 43°44'N 29°02'E; 43°40'N 29°00'E;
 43°45'N 28°36'E

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	446.5 kHz(1)				
RT (MF)	B	2 748 kHz(2)				
VHF	C	Ch 12, 26(3)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0650, 1250, 1850	A	Forecast valid for 24 hours for the area affected.	English, Romanian
0703, 1303, 1903	C	Forecast valid for 24 hours for the area affected.	English, Romanian
0733, 1333, 1933	B	Forecast valid for 24 hours for the area affected.	English, Romanian

Notes:

A network of VHF radio stations remotely controlled by Constanta Radio and connected to MRCC Constanta is responsible for maintaining a continuous listening watch on international distress frequencies.

- (1) After preliminary call on 500 kHz A2a.
- (2) After preliminary call on DSC 2187.5 kHz F1B.
- (3) After preliminary call on DSC Ch 70 F1B.

RUSSIAN FEDERATION (EUROPE)**Maritime Radio Station: Arkhangel'sk****Region:** VI
Position: 64°51'N 40°17'E
Call Sign: UGE**METAREA:** XX**Area Covered:** North Atlantic to Barents Sea - Arctic coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	B	2 595 kHz		Arkhangel'sk Radio		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0510, 0530, 1710, 1730	B	Navigational warnings: Coastal warnings for Beloye More (White Sea).	Russian

RUSSIAN FEDERATION (EUROPE)**Maritime Radio Station: Kaliningrad**

Region: VI
Position: 54°42'N 20°30'E
Call Sign: UIW

24-hour watch

METAREA: I
Area Covered: Baltic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 390 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Navigational warnings: Coast warnings for Baltic Sea after announcement on 2 187.5 kHz and 2 182 kHz.	

RUSSIAN FEDERATION (EUROPE)**Maritime Radio Station: Tiksi****Region:** VI**Position:****Call Sign:** --**METAREA:** XIII**Area Covered:** Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 351 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0900, 2300	A	Weather forecast for Reka Lena, Reka Yana and adjacent sea areas.	Russian

Broadcast given 1 hour earlier when DST is in force.

RUSSIAN FEDERATION (IN ASIA)**Maritime Radio Station: Beringovskiy (Station broadcasts only during navigation season (15 May-1 December))****Region:** II**Position:****Call Sign:** --**METAREA:** XIII**Area Covered:** West Pacific/Sea of Japan

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 525 kHz				
RT (MF)	B	3 730 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A,B	24 hour weather forecast for Port Beringovskiy and coastal waters out to 20 n miles from Anadyrskiy Liman to Bukhta Dezhneva.	Russian

RUSSIAN FEDERATION (IN ASIA)**Maritime Radio Station: Magadan**

Region: II
Position: 59°40'N 151°01'E
Call Sign: UBY

METAREA: XIII**Area Covered:** West Pacific/Sea of Japan

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	A	12 713.5 kHz	UBY			
WT (HF)	A	6 365 kHz	UBY			
WT (HF)	A	4 243 kHz	UBY			
RT (MF)	B	2 400 kHz	Magadan Radio			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 1233	B	Synopsis, weather and wave forecast for 24 hours and 48 hour weather forecast for NE part of Okhotskoye More.	Russian
0300, 1400	A	Synopsis, weather and wave forecast for 24 hours and 48 hour weather forecast for NE part of Okhotskoye More.	Russian
1303	B	Navigational warnings: Coastal warnings fopr NE part of Okhotskoye More. Repeat of broadcast by Petropavlovsk-Kamchatskiy.	Russian
1600	A	Navigational warnings: Coastal warnings fopr NE part of Okhotskoye More. Repeat of broadcast by Petropavlovsk-Kamchatskiy.	Russian

RUSSIAN FEDERATION (IN ASIA)**Maritime Radio Station: Okhotsk****Region:** II
Position: 59°22'N 143°12'E
Call Sign: --**METAREA:** XIII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 560 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000	A	Synopsis for W part of Okhotskoye More and coastal waters out to 20 n miles from Zaliv Ayan to Poluostrov Lisyanskiy.	Russian
0550, 1400, 2200	A	24-hour weather and wave forecast and weather forecast for the following 48 hours for W part of Okhotskoye More and coastal waters out to 20 n miles from Zaliv Ayan to Poluostrov Lisyanskiy.	Russian

RUSSIAN FEDERATION (IN ASIA)**Maritime Radio Station: Vladivostok**

Region: II
Position: 43°07'N 131°53'E
Call Sign: UFL, UFZ

24-hour watch

METAREA: XIII**Area Covered:** West Pacific/Sea of Japan

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	A	4 241 kHz				
WT (HF)	B	6 430 kHz				
WT (HF)	C	12 870 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030	A,C	Navigational warnings.	Russian
0030, 2200	A,C	Navigational warnings.	Russian
0630, 2200	A,C	Storm warnings, synopsis, weather and wave forecast for 12 hours for Sea of Japan and Proliv Tsugaru.	Russian
1100, 2300	A	Navigational warnings and coastal warnings.	English
1100, 2300	A	Storm warnings and 24 hour weather forecast for Okhotskoye More, Bering Sea, Sea of Japan N of 42° and NW Pacific Ocean from Kuril'skiye Ostrova to 180E/W to N of 45°N. Storm warnings and 12 hour weather forecast for Russian coastal waters in the Sea of Japan. Navigational warnings.	English
1130	A	Synopsis, storm warnings, weather and wave forecast for 24-hours for Sea of Japan. Navigational warnings.	Russian
2300	A	Storm warnings and 24 hour weather forecast for Okhotskoye More, Bering Sea, Sea of Japan N of 42° and NW Pacific Ocean from Kuril'skiye Ostrova to 180E/W to N of 45°N. Storm warnings and 12 hour weather forecast for Russian coastal waters in the Sea of Japan.	English
2330	A, B	Navigational warnings and coastal warnings.	Russian
2330 (Sunday)	A	Navigational warnings.	Russian

RUSSIAN FEDERATION (IN ASIA)**Maritime Radio Station: Yuzhno-Sakhalinsk****Region:** II
Position:
Call Sign: UHO-2**METAREA:** XIII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	A	8 180 kHz				
WT (HF)	B	11 025 kHz				
RT (HF)	C	6 997 kHz				
RT (HF)	C	4 030 kHz				
RT (HF)	D	5 170 kHz				
RT (HF)	D	4 480 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130	A, B, D	12 hour weather and wave forecast for W and SW parts of Okhotskoye More, Kuril'skiye Ostrova, Amurskiy Liman, Zaliv Aniva, Zaliv Sakhalinskiy, Zaliv Terpeniya, Proliv Laperuza and Proliv Tartarskiy (including coastal waters out to 20 n miles).	
0630	A, B, D	24 hour weather and wave forecst and weather forecast for the following 48 hours for W and SW parts of Okhotskoye More, Kuril'skiye Ostrova, Amurskiy Liman, Zaliv Sakhalinskiy, Zaliv Terpeniya, proliv Laperuza and Proliv Tartarskiy (including coastal waters out to 20 n miles).	
1900	A, C	12 hour weather and wave forecast for W and SW parts of Okhotskoye More, Kuril'skiye Ostrova, Amurskiy Liman, Zaliv Aniva, Zaliv Sakhalinskiy, Zaliv Terpeniya, Proliv Laperuza and Proliv Tartarskiy (including coastal waters out to 20 n miles).	

SAUDI ARABIA**Maritime Radio Station: Jeddah**

Region: II
Position: 21°23'N 39°10'E
Call Sign: HZH

24-hour watch

METAREA: IX**Area Covered:** Red Sea Coast, Gulf of Aden (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 726 kHz				
VHF	B	Ch 25				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0333, 0733, 1133, 1533, 1933, 2333		Navigational warnings: For the Red Sea coastal waters of Saudi Arabia.	
0533, 1133, 1733, 2333		Gale warnings, synopsis, 24 hour forecast for areas RSN, RSS, GAA and approaches.	FM 61-IV MAFOR
On request		Gale warnings, synopsis, 24 hour forecast for areas RSN, RSS, GAA and approaches. Navigational warnings: For the Red Sea coastal waters of Saudi Arabia.	FM 61-IV MAFOR

SEYCHELLES**Maritime Radio Station: Seychelles****Region:** I
Position: 34°37'S 55°26'E
Call Sign: --**METAREA:** VIII(S)**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 770 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0518, 1548	A	For Area within 200 n miles of Seychelles.	English

SOLOMON ISLANDS**Maritime Radio Station: Honiara****Region:** V**Position:** 09°26'S 160°04'E**Call Sign:** --**METAREA:** X**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	6 215 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt/On Request: Nov-April	A	Cyclone reports.	

SOUTH AFRICA

Maritime Radio Station: Cape Town

Region: I
Position: 33°53'S 18°30'E
Call Sign: ZSC

24-hour watch

METAREA: VII

Area Covered: South Atlantic - The whole ocean area south of the Equator and of the African coast between 20°W and 20°E. The Mozambique Channel south of 15°S and the sea area from 25°S to 30°S between the African coast and 45°E. The whole ocean area south of 30°S and of the African coast between 20°E and 70°E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 740 kHz				
RT (HF)	A	13 146 kHz				
RT (HF)	A	4 375 kHz				
VHF	B	Ch 24		Kareedouw	34°02'S 24°26'E	
VHF	B	Ch 86		Albertinia	34°12'S 21°42'E	
VHF	B	Ch 04		Alexander Bay	28°40'S 16°30'E	
VHF	B	Ch 26		Bluff (Durban)	29°48'S 30°48'E	
VHF	B	Ch 25 27		Botha's Hill	33°59'S 25°16'E	
VHF	B	Ch 25		Cape S. Lucia	28°30'S 32°24'E	
VHF	B	Ch 26		Constantiaberg	34°03'S 18°23'E	
VHF	B	Ch 03		Doringbaai	31°49'S 18°13'E	
VHF	B	Ch 26		East London	33°00'S 27°55'E	
VHF	B	Ch 23		Elandsbaai	32°19'S 18°19'E	
VHF	B	Ch 83		Governorskop	33°17'S 26°42'E	
VHF	B	Ch 25		Hondeklipbaai	30°30'S 17°25'E	
VHF	B	Ch 84		Struisbaai	34°50'S 20°00'E	
VHF	B	Ch 23		Knysna	34°04'N 23°10'E	
VHF	B	Ch 01		Kosi Bay	26°59'S 32°45'E	
VHF	B	Ch 28		Mazeppa Bay	32°26'S 28°28'E	
VHF	B	Ch 25		Milnerton	33°52'S 18°20'E	
VHF	B	Ch 85		Pearly Beach	34°40'S 19°30'E	
VHF	B	Ch 27		Port Edward	31°03'S 30°13'E	
VHF	B	Ch 01		Port Nolloth	29°17'S 16°53'E	
VHF	B	Ch 24		Port S. Johns	31°38'S 29°33'E	
VHF	B	Ch 26		Port Shepstone	30°44'S 30°27'E	
VHF	B	Ch 28		Richards Bay	28°47'S 32°06'E	
VHF	B	Ch 27		Saldanha Bay	33°02'S 17°55'E	
VHF	B	Ch 03		Sodwana	27°29'S 32°36'E	
VHF	B	Ch 04		Hermanus	34°25'S 19°13'E	

SOUTH AFRICA

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1015, 1815	A-B	Storm, Gale and cyclone warnings, synopsis and forecast for areas 3-5, 11, 12, 14 and 15.	
1333	A-B	Coastal weather reports comprising 1200 UTC observations from various stations combined and presented as one broadcast.	
On receipt 1015, 1815 (after weather bulletin)	A-B	Navigational warnings: NAVAREA VII and coastal warnings in force.	
On receipt on Ch 16 & 2182 kHz	A-B	Storm warnings.	
On request	A-B	High seas weather forecast.	

NOTE:

VHF broadcasts are announced simultaneously through VHF Ch 16 before being broadcast through the allocated remote transmitter site(s).

SPAIN**Marine Rescue Co-ordination Centre: Algeciras (MRSC)****Region:** VI**Position:** 36°07'N 05°26'W**Call Sign:** --**METAREA:** II**Area Covered:** Mediterranean Coast.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 74				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0315, 0515, 0715, 1115, 1515, 1915, 2315	A	Weather bulletins.	Spanish, English
On request	A		Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Almería (MRCC)****Region:** VI**Position:****Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 74			36°50'N 2°29'W	
VHF	B	Ch 74			36°43'N 2°12'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every odd H+15	A		Spanish, English
Every odd H+15	A	Gale warnings, synopsis and forecast for areas Alborán and Palos.	Spanish, English
Every odd H+15	A, B	Gale warnings, synopsis and forecast for coasta of Murcia, Almeria, Granada, Melilla and Isla de Alborán.	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Barcelona (MRCC)**

Region: VI
Position: 41°20'N 02°09'E
Call Sign: --

METAREA: III**Area Covered:** Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0500, 0900, 1400, 1900 (summer) 0600, 1000, 1500, 2000, (winter)	A	Weather bulletins.	Spanish, English

SPAIN**Maritime Radio Station: Bilbao (CCR)****Region:** VI**Position:****Call Sign:** --

24-hour watch

METAREA: II**Area Covered:** Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 707 kHz		Machichaco	43°27'N 2°45'W	
RT (MF)	A	1 677 kHz		Cabo Peñas	43°39'N 5°51'W	
VHF	B	Ch 24		Santander	43°25'N 3°36'W	
VHF	B	Ch 27		Pasajes	43°17'N 1°55'W	
VHF	B	Ch 60		Navia	43°25'N 6°50'W	
VHF	B	Ch 26		Bilbao	43°22'N 3°02'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1903	A	Storm warnings, synopsis and 24 hour forecast for Atlantic areas. Navigational warnings: After weather bulletin: For area from French/Spanish border to 6°W.	Spanish
0840, 2010	B	Weather warnings for coastal areas. Navigational warnings: After weather bulletin: Coastal warnings.	Spanish
1240	B	48 hours forecast for coastal areas.	Spanish
1303	A	Storm warnings, synopsis and 48 hour forecast for Atlantic areas.	Spanish

SPAIN**Marine Rescue Co-ordination Centre: Bilbao (MRCC)**
Region: VI
Position: 43°21'N 03°02'W
Call Sign: --

METAREA: II
Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0033, 0433, 0833, 1233, 1633, 2033	A	Coastal waters: gale warnings and forecast.	Spanish, English
0233, 0633, 1033, 1433, 1833, 2233	A	High seas: gale warnings and forecast.	Spanish, English
On receipt	A	Navigational warnings: provisional broadcast an official warning will be broadcast by Coast Radio Stations.	Spanish, English
On receipt Every even H+33	A	Storm warnings.	

SPAIN**Marine Rescue Co-ordination Centre: Cádiz (MRSC)****Region:** VI
Position: 36°32'N 06°17'W
Call Sign: EAC

24-hour watch

METAREA: II**Area Covered:** Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 74				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0315, 0715, 1115, 1515, 1915, 2315	A	Weather bulletins.	Spanish, English
On receipt	A	Weather bulletins. Navigational warnings: Provisional broadcast an official warning will be broadcast by Coast Radio Stations.	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Cartagena (MRSC)****Region:** VI**Position:** 37°35'N 00°58'W**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0115, 0515, 0915, 1315, 1715, 2115	A	Weather bulletins.	Spanish, English
On receipt	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Castellón (MRSC)**

Region: VI
Position: 39°58'N 00°01'E
Call Sign: --

METAREA: III**Area Covered:** Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 74				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0900, 1400, 1900	A	Weather bulletins.	Spanish, English
On receipt	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

SPAIN**Maritime Radio Station: Coruña (CCR)****Region:** VI**Position:****Call Sign:** --

24-hour watch

METAREA: II**Area Covered:** North Atlantic to Barents Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 764 kHz		Finisterre	42°54'N 9°16'W	
RT (MF)	A	1 698 kHz		Coruña	43°22'N 8°27'W	
VHF	B	Ch 65		Vigo	42°10'N 08°41'W	
VHF	B	Ch 21		La Guardia	41°53'N 8°52'W	
VHF	B	Ch 22		Finisterre	42°54'N 9°16'W	
VHF	B	Ch 26		Coruña	43°22'N 8°27'W	
VHF	B	Ch 02		Cabo Ortegal	43°35'N 7°47'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0005, 0405, 0805, 1205, 1605, 2005	A	Navigational warnings: Provisional broadcast, an official warning will be broadcast by Coast Radio Stations.	Spanish, English
0703, 1903	A	Storm warnings, synopsis and 24 hour forecast for Atlantic areas. Navigational warnings: After weather bulletin: General warnings.	Spanish
0840, 2010	B	Weather warnings for coastal areas. Navigational warnings: After weather bulletin: Coastal warnings.	Spanish
1240	B	48 hours forecast for coastal areas.	Spanish
1303	A	Storm warnings, synopsis and 48 hour forecast for Atlantic areas.	Spanish

SPAIN**Marine Rescue Co-ordination Centre: Coruña (MRSC)****Region:** VI
Position: 33°22'N 08°23'W
Call Sign: EAR

24-hour watch

METAREA: II**Area Covered:** North Atlantic to Barents Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0005, 0405, 0805, 1205, 1605, 2005	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Finisterre (MRCC)****Region:** VI
Position: 42°42'N 8°59'W
Call Sign: --**METAREA:** II
Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 11				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
H+33 every 4 hours commencing 0033	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English
H+33 every 4 hours commencing 0233	A	Weather bulletins.	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Gijón (MRCC)**

Region: VI
Position: 43°34'N 05°42'W
Call Sign: --

METAREA: II**Area Covered:** Mediterranean Sea/Black Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every even H+15 (0215-2215)	A	Weather bulletins.	Spanish, English
Every H+15	A	avigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

SPAIN

Marine Rescue Co-ordination Centre: Huelva (MRSC)

Region: VI
Position: 37°15'N 05°56'W
Call Sign: --

METAREA: III
Area Covered: Mediterranean Sea/Black Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0415, 0815, 1215, 1615, 2015	A	Weather bulletins.	Spanish, English
On receipt	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

SPAIN**Maritime Radio Station: Málaga (CCR)****Region:** VI**Position:** -**Call Sign:** --

24-hour watch

METAREA: III**Area Covered:** Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 704 kHz		Tarifa	36°03'N 5°33'W	
RT (MF)	A	1 656 kHz		Chipiona	36°41'N 6°25'W	
VHF	B	Ch 81		Tarifa	36°03'N 5°33'W	
VHF	B	Ch 26		Malaga	36°36'N 4°36'W	
VHF	B	Ch 26		Cádiz	36°21'N 6°17'W	
VHF	B	Ch 27		Cabo Gata	36°43'N 2°12'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0733, 1933	A	Storm warnings, synopsis and 24 hour forecast for Mediterranean and Atlantic areas. Navigational warnings: After weather bulletin - general warnings.	
0833, 2003	B	Weather warnings for coastal areas. Navigational warnings: After weather bulletin - general warnings.	Spanish
1133	B	48 hours forecast for coastal areas.	Spanish
1233	A	Storm warnings, synopsis and 48 hour forecast for Mediterranean and Atlantic areas.	Spanish

SPAIN**Marine Rescue Co-ordination Centre: Palamós (MRSC)****Region:** VI**Position:** 41°51'N 3°07'E**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 13				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0630, 0930, 1330, 1830	A	Weather bulletins.	Spanish, English
On receipt	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Palma (MRCC)****Region:** VI**Position:** 39°34'N 02°39'E**Call Sign:** EAO

24-hour watch

METAREA: III**Area Covered:** Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0635, 0935, 1435, 1935 (summer) 0735, 1035, 1535, 2035 (winter)	A	Weather bulletins.	Spanish, English
On receipt	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Santander (MRSC)**

Region: VI
Position: 43°27'N 03°49'W
Call Sign: --

METAREA: II**Area Covered:** Mediterranean Sea/Black Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 74				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 0045, 0845, 1245, 1645, 2045	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English
0245, 0645, 1045, 1445, 1845, 2245	A	Weather bulletins.	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Tarifa (MRCC)**

Region: VI
Position: 36°02'32"N
 05°33'23"W
Call Sign: --

METAREA: II, III**Area Covered:** West Mediterranean and North Atlantic within 450 miles from coast (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10 67				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every even H+15	A	Actual wind and visibility at Tarifa, followed by foecast for Strait of Gibraltar, Cádiz Bay and Alborán. Navigational warnings: Fog (visibility) warnings: broadcasts area more frequent when visibility falls below 2 n miles.	Spanish, English
On receipt	A	Navigational warnings: For the Strait of Gibraltar between the meridians of Cabo Espartell Lt (35°47'N 5°56'W) and Punta Almina Lt (35°54'N 5°17'W).	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Tarragona (MRSC)**
Region: VI
Position: 41°06'N 01°14'E
Call Sign: --

METAREA: III
Area Covered: Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 74				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0430, 0830, 1430, 1930 (summer) 0530, 0930, 1530, 2030 (winter)	A	Weather bulletins.	Spanish, English

SPAIN**Maritime Radio Station: Valencia (CCR)****Region:** VI**Position:****Call Sign:** --

24-hour watch

METAREA: III**Area Covered:** Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 767 kHz		Cabo Gata	36°43'N 2°12'W	
RT (MF)	A	1 755 kHz		Palma	39°21'N 2°58'E	
VHF	B	Ch 23		Tarragona	41°21'N 1°32'E	
VHF	B	Ch 20		Palma	39°44'N 2°43'E	
VHF	B	Ch 85		Menorca	39°59'N 4°07'E	
VHF	B	Ch 03		Ibiza	38°55'N 1°01'E	
VHF	B	Ch 25		Castellon	39°52'N 0°19'W	
VHF	B	Ch 04		Cartagena	37°35'N 0°58'W	
VHF	B	Ch 01		Cabo de la Nao	38°43'N 0°10'W	
VHF	B	Ch 60		Barcelona	41°25'N 2°07'E	
VHF	B	Ch 23		Bagur	42°17'N 3°15'E	
VHF	B	Ch 23		Bagur	42°17'N 3°15'E	
VHF	B	Ch 85		Alicante	38°20'N 0°42'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0750, 1950	A	Storm warnings, synopsis and 24 hour forecast for Mediterranean areas. Navigational warnings: After weather bulletin - general warnings.	Spanish
0910, 2110	B	Weather warnings for coastal areas. Navigational warnings: After weather bulletin - coastal warnings.	Spanish
1303	A	Storm warnings, synopsis and 48 hour forecast for Mediterranean areas.	Spanish
1410	B	48 hours forecast for coastal areas.	Spanish

SPAIN**Marine Rescue Co-ordination Centre: Valencia (MRCC)****Region:** VI**Position:** 39°27'N 00°20'W**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every even H+15	A	For coastal waters of Alicante, Valencia, Castellon and Mar de Palos, Argelia and Islas Baleares. Navigational warnings: For coastal waters of Alicante, Valencia, Castellon and Mar de Palos, Argelia and Islas Baleares.	Spanish, English

SPAIN**Marine Rescue Co-ordination Centre: Vigo (MRSC)****Region:** VI**Position:** 42°14'N 08°44'W**Call Sign:** --**METAREA:** II**Area Covered:** Mediterranean Sea/Black Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0015, 0415, 0815, 1215, 1615, 2015	A	Weather bulletins.	Spanish, English
0215, 0615, 1015, 1415, 1815, 2215	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

SPAIN (CANARY ISLANDS)**Maritime Radio Station: Las Palmas (CCR GROUP V)****Region:** I**Position:****Call Sign:** EAL

24-hour watch

METAREA: II**Area Covered:** North Atlantic waters from 50°N to 20°N east of 35°W. Mediterranean sea west of 10°E overlapping with the area of responsibility of France.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 644 kHz		Arrecife	22°09'N 13°31'W	
RT (MF)	B	1 689 kHz		Las Palmas	28°06'N 15°28'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0803, 1233, 1903	A,B	Storm warnings, synopsis and 24 hour forecast for Atlantic areas.	
0803, 1903 after weather bulletin	A,B		

SPAIN (CANARY ISLANDS)**Marine Rescue Co-ordination Centre: Las Palmas (MRCC)**

Region: I
Position: 28°09'N 15°25'W
Call Sign: --

METAREA: II**Area Covered:** North Atlantic waters from 50°N to 20°N east of 35°W. Mediterranean sea west of 10°E overlapping with the area of responsibility of France.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10			28°09'N 15°25'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A		Spanish, English

SPAIN (CANARY ISLANDS)**Maritime Radio Station: Tenerife (CCR)****Region:** I**Position:****Call Sign:** EAT

24-hour watch

METAREA: II**Area Covered:** North Atlantic waters from 50°N to 20°N east of 35°W. Mediterranean sea west of 10°E overlapping with the area of responsibility of France.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 27		Tenerife	28°27'N 16°22'W	
VHF	A	Ch 26		Las Plamas	27°58'N 15°33'W	
VHF	A	Ch 20		La Palma	28°39'N 17°49'W	
VHF	A	Ch 23		Hierro	27°48'N 17°55'W	
VHF	A	Ch 24		Gomera	28°06'N 17°06'W	
VHF	A	Ch 22		Fuerteventura	28°33'N 13°55'W	
VHF	A	Ch 25		Arrecife	29°08'N 13°31'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0833, 2033	A	Forecast for coastal areas.	Spanish
0833, 2033 after weather bulletin	A	Navigational warnings: Coastal warnings.	Spanish
1333	A	48 hours forecast for coastal areas.	Spanish

SPAIN (CANARY ISLANDS)**Marine Rescue Co-ordination Centre: Tenerife (MRCC)****Region:** I**Position:** 28°29'N 16°14'W**Call Sign:** --**METAREA:** II**Area Covered:** North Atlantic waters from 50°N to 20°N east of 35°W. Mediterranean sea west of 10°E overlapping with the area of responsibility of France.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 74				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0015, 0415, 0815, 1215, 1615, 2015	A	Storm warnings for the Anaga-Agaete channel and the coasts of La Palma, El Hierro, La Gomera and Tenerife.	Spanish, English
On receipt 0215, 0615, 1015, 1415, 1815, 2215	A		Spanish, English

SRI LANKA**Maritime Radio Station: Colombo****Region:** II**Position:** 06°55'N 079°53'E**Call Sign:** 4PB

24-hour watch

METAREA: VIII(N)**Area Covered:** Sea areas from 10°N to the Equator between 60°E and 95°E.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	482 kHz				
WT (HF)	B	8 473 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530, 1330	A, B	Gale warnings, synopsis, forecast for Areas E00-E95.	
0600, 1300	A, B	Forecast, for Sri Lanka and vicinity.	English
On receipt 0600, 0900, 1330 On request	A, B	Navigational warnings: For area within 200 n miles of Colombo.	English

SURINAME**Maritime Radio Station: Paramaribo**

Region: III
Position: 05°51'N 55°09'W
Call Sign: PZN

24-hour watch

METAREA: V**Area Covered:** Area between 5°N and 15°N, 45°W and 60°W

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 818 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1233, 2133 On request	A	Storm warnings, synopsis, forecast for Atlantic Ocean 5°N-15°N, 45°W-60°W.	English

SWEDEN

Maritime Radio Station: Stockholm

Region: VI
Position: 59°17'N 18°43'E
Call Sign: --

METAREA: I

Area Covered: Skagerrak, Kattegat, the Sound and the Belts, Baltic, Sea of Aland and Archipelago Sea, Gulf of Bothnia (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1674 kHz		Tingstade		
RT (MF)	B	1 710 kHz		Grimeton		
RT (MF)	C	1 779 kHz		Bjuroklubb		
RT (MF)	D	1 797 kHz		Gislovshammar		
RT (MF)	E	2 733 kHz		Harnosand		
VHF	F	Ch 82	East coast	Kivik		
VHF	F	Ch 25	East coast	Visby		
VHF	F	Ch 24	East coast	Hoburgen		
VHF	F	Ch 26	East coast	Borgholm		
VHF	F	Ch 78	East coast	Olands Sodra Udde		
VHF	F	Ch 28	East coast	Faro		
VHF	F	Ch 25	East coast	Karlshamn		
VHF	F	Ch 24	East coast	Toro		
VHF	F	Ch 21	East coast	Trelleborg		
VHF	F	Ch 27	West Coast	Barseback		
VHF	F	Ch 81	East coast	Karlskrona		
VHF	F	Ch 65	East coast	Gotska		
VHF	F	Ch 64	East coast	Norrkoping		
VHF	F	Ch 62	West Coast	Falkenberg		
VHF	F	Ch 66	East coast	Sodertalje		
VHF	F	Ch 84	East coast	Svenska Hogarna		
VHF	F	Ch 26	East coast	Nacka		
VHF	F	Ch 81	East coast	Hjalmaren		
VHF	F	Ch 25	East coast	Vasteras		
VHF	F	Ch 78	East coast	Vaddo		
VHF	F	Ch 24	East coast	Oregrund		
VHF	F	Ch 23	East coast	Vastervik		
VHF	F	Ch 01	Vanern/Vattern	Kinneku		
VHF	F	Ch 25	East coast	Hudiksvall		
VHF	F	Ch 24	East coast	Sundsvall		
VHF	F	Ch 23	East coast	Harnosand		
VHF	F	Ch 84	East coast	Kramfors		
VHF	F	Ch 64	East coast	Mjallom		
VHF	F	Ch 28	East coast	Ornskoldsvik		
VHF	F	Ch 26	East coast	Umea		
VHF	F	Ch 23	East coast	Skelleftea		

SWEDEN

VHF	F	Ch 25	East coast	Lulea
VHF	F	Ch 24	East coast	Seskaro
VHF	F	Ch 26	Vanern/Vattern	Karlsborg
VHF	F	Ch 24	West Coast	Hoganas
VHF	F	Ch 28	Vanern/Vattern	Kristinehamn
VHF	F	Ch 65	West Coast	Halmstad
VHF	F	Ch 25	Vanern/Vattern	Trollhattan
VHF	F	Ch 22	West Coast	Stromstad
VHF	F	Ch 78	West Coast	Grebbestad
VHF	F	Ch 84	West Coast	Hunnebostrand
VHF	F	Ch 27	West Coast	Bokenas
VHF	F	Ch 23	West Coast	Orust
VHF	F	Ch 65	West Coast	Ljungskile
VHF	F	Ch 81	West Coast	Tjorn
VHF	F	Ch 26	West Coast	Torslanda
VHF	F	Ch 24	West Coast	Goteborg
VHF	F	Ch 22	West Coast	Varberg
VHF	F	Ch 23	East coast	Gavle
VHF	F	Ch 23	Vanern/Vattern	Granna

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0733	A,B,F	Weather summary. Forecast valid 24 hours.	English
1133	A,D-F	Navigational warnings: Ice reports.	English
1933	C,D,F	Weather summary. Forecast valid 24 hours.	English
On receipt 0333, 0733, 1133m 1533, 1933, 2333	A,D,F	Storm/gale warnings.	

NOTE:

Same information is also transmitted via VHF. For frequencies and broadcast times, see List of Coast Stations (issued by ITU, International Telecommunication Union).

SYRIAN ARAB REPUBLIC**Maritime Radio Station: Al Ladhiqiyah (Latakia)**

Region: VI
Position: 35°30'N 35°47'E
Call Sign: --

24-hour watch

METAREA: III**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	3 624 kHz				
VHF	B	Ch 13				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0400, 0800, 1200, 1600, 2000, 2400	A, B		

SYRIAN ARAB REPUBLIC**Maritime Radio Station: Tartus (Tartous)**

Region: VI
Position: 34°57'N 35°52'E
Call Sign: --

24-hour watch

METAREA: III**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 662 kHz				
VHF	B	Ch 20				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0400, 0800, 1200, 1600	A, B		

THAILAND**Maritime Radio Station: Bangkok (Nonthaburi) Meteorological**

Region: II
Position: 13°01'N 100°01'E
Call Sign: HSA

24-hour watch

METAREA: XI

Area Covered: West Pacific Sea of Japan.
 Gulf of Thailand, West coast of southern Thailand, Strait of Malacca and South China Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	6 765.1 kHz				
RT (HF)	B	8 743 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100	A-B	Storm warnings for the Area 4°N-20°N, 98°E-115°E. Synopsis for the Areas 0°-30°N, 90°E-120°E. 24 hour forecast for Areas 1-5.	Thai, English

TONGA**Maritime Radio Station: Nuku'Alofa**

Region: V
Position: 21°11'S 175°13'W
Call Sign: --

METAREA: XIV**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 080 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 0833, 2033	A	Local weather reports for waters adjacent to Tonga and Niue.	

TRINIDAD AND TOBAGO**Maritime Radio Station: North Post (Trinidad)**

Region: IV
Position: 10°45'N 61°34'W
Call Sign: 9YL

24-hour watch

METAREA: IV**Area Covered:** Caribbean Sea, Antilles and Atlantic waters to East

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 735 kHz				H24
VHF	B	Ch 14				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1250, 1850	A	12 hour forecast and outlook for further 12 hours for Trinidad, Tobago and Eastern Antilles. Navigational warnings: For Trinidad and Tobago.	English
1340, 2040	B	12 hour forecast and outlook for further 12 hours for Trinidad and Tobago. Navigational warnings: For Trinidad and Tobago.	English
On receipt	A	Storm warnings for Caribbean Sea, Antilles and adjacent Atlantic waters.	English
On receipt	B	Storm warnings for Trinidad and Tobago.	English

TUNISIA**Maritime Radio Station: La Goulette Port****Region:** I**Position:****Call Sign:** 3VW

24-hour watch

METAREA: III**Area Covered:** Coastal shipping and fishing areas of Serrat, Gulf of Tunis, Hammamet, Chebba and Jerba (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 743 kHz				
RT (MF)	B	2 182 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0405, 1905	A	Weather summary, 12 hour forecast and outlook for further 12 hours for coasts of Tunisia.	French
On receipt 0003, 0403, 0603, 1003, 1303, 1803, 1903, 2103	B	Navigational warnings: For Tunisian coast, Western Mediterranean south of 40°N, east of a line from Tunisian-Algerian frontier to C. Spartivento (38°52'N 8°52'E).	French
On receipt repeated at H+03	B	Storm warnings for coastal waters of Tunisia.	French

TUNISIA**Maritime Radio Station: Tunis****Region:** I**Position:** 36°54'N 10°11'E**Call Sign:** 3VT, 3VX

24-hour watch

METAREA: III**Area Covered:** Coasts of Tunisia and central Mediterranean between 8°E and the south of Sardinia, 40°N and 15°E to the coasts of Tripolitania and Tunisia (Groupe II AFN)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 820 kHz				
RT (MF)	B	2 670 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0805, 1705	A, B	Weather summary, 12 hour forecast and outlook for further 12 hours for the coastal waters of Tunisia.	French
On receipt & 0803, 1203, 2003 On request	A, B	Navigational warnings for Tunisian coast, Western Mediterranean south of 40°N, east of a line from Tunisian-Algerian frontier to C. Spartivento.	French

TURKEY**Maritime Radio Station: Antalya**

24-hour watch

Region: VI**Position:** 36°53'N 30°42'E**Call Sign:** --**METAREA:** III**Area Covered:** Western and Eastern Mediterranean Coasts (30 miles distance)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 67 (1)		Antalya Control Centre	36°53'N 30°42'E	
VHF	B	Ch 67 (1)		Yumrutepe R/L	36°15'N 29°27'E	
VHF	B	Ch 67 (1)		Palamut R/L	36°45'N 28°13'E	
VHF	B	Ch 67 (1)		Markiz R/L	36°43'N 30°29'E	
VHF	B	Ch 67 (1)		Kazakin R/L	36°50'N 29°06'E	
VHF	B	Ch 67 (1)		Dilektepe TV	37°32'N 27°16'E	
VHF	B	Ch 67 (1)		Cobandede R/L	36°31'N 36°15'E	
VHF	B	Ch 67 (1)		Anamur R/L	36°05'N 32°50'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0700, 1900	A	Forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish, English
0730, 0900, 0930, 1130, 1330, 1530, 1730, 1930	A	Sea observations for Mediterranean Sea and Aegean Sea.	Turkish
0900, 1200, 1500, 1800, 2100 LT (2)(3)	B	3 day forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
0900, 1930	A	3 day forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
On receipt	A	Weather warnings.	

(1) After prior announcement on Ch. 16.

(2) Broadcasts given 1 hour early when DST is in force.

(3) Broadcasts are repeated 3 times at 5 minute intervals.

TURKEY**Maritime Radio Station: Istanbul**

Region: VI
Position: 40°59'N 28°49'E
Call Sign: TAH

24-hour watch

METAREA: III**Area Covered:** Marmara Sea and Western Black Sea coasts (30 miles distance)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	13 128 kHz				
RT (HF)	A	8 812 kHz				
RT (HF)	A	4 405 kHz				
VHF	B	Ch 67 (1)		Sarkoy	40°41'N 27°01'E	
VHF	B	Ch 67 (1)		Mahyadagi	41°47'N 27°37'E	
VHF	B	Ch 67 (1)		Keltepe	40°38'N 30°05'E	
VHF	B	Ch 67 (1)		Kayalidag	39°58'N 26°38'E	
VHF	B	Ch 67 (1)		Camlica	41°02'N 29°04'E	
VHF	B	Ch 67 (1)		Bandirma	40°21'N 27°54'E	
VHF	B	Ch 67 (1)		Ayvalik	39°18'N 26°14'E	
VHF	B	Ch 67 (1)		Akdag	38°33'N 26°30'E	
VHF	B	Ch 67 (1)		Akcakoca	41°59'N 31°12'E	
VHF	B	Ch 67 (1)		Istanbul Control Centre	40°59'N 28°49'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0700, 1900	B	Weather forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish, English
0730, 0930, 1130, 1330, 1530, 1730, 1930	B	Sea observations for Western Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
0900, 1930	B	3 day forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
1000, 1800	A	Weather forecast for Sea Areas 12-27.	Turkish, English
On receipt 0700, 1900	B	Weather warnings for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish

- (1) After prior announcement on Ch 16.
(2) Broadcasts given 1 hour early when DST is in force.
(3) Broadcasts are repeated 3 times at 5 minutes intervals.

TURKEY**Maritime Radio Station: Samsun****Region:** VI**Position:** 41°17'N 36°20'E**Call Sign:** TAF

24-hour watch

METAREA: III**Area Covered:** Black Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 67 (1)		Zonguldak	41°24'N 31°50'E	
VHF	A	Ch 67 (1)		Yidiztepe	41°06'N 37°02'E	
VHF	A	Ch 67 (1)		Pazar	41°09'E 40°49'E	
VHF	A	Ch 67 (1)		Inebolu	41°53'N 33°43'E	
VHF	A	Ch 67 (1)		Dutmen	41°27'N 35°29'E	
VHF	A	Ch 67 (1)		Dikmen	38°16'N 40°55'E	
VHF	A	Ch 67 (1)		Akcabat	41°36'N 39°27'E	
VHF	A	Ch 67 (1)		Samsun Control Centre	41°17'N 36°20'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0700, 1900	A	Weather forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish, English
0730, 0930, 1130, 1330, 1530, 1730, 1930	A	Sea observations for Western Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
0900, 1930	A	3 day forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
On receipt 0700, 1900	A	Weather warnings for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish

(1) After prior announcement on Ch 16.

TUVALU**Maritime Radio Station: Funafuti Island**

Region: V
Position: 08°31'S 179°13'E
Call Sign: --

METAREA: XIV

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	6 215.5 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0500 (when local ships in area) 2100 On request	A	Gale warnings, forecast for local waters.	

UKRAINE**Maritime Radio Station: Mariupol'**

Region: VI
Position: 47°06'N 37°33'E
Call Sign: USU UTW

24-hour watch

METAREA: III

Area Covered: Mediterranean Sea/Black Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 805 kHz				

UKRAINE**Maritime Radio Station: Odesa**

Region: VI
Position: 46°29'N 30°44'E
Call Sign: UTT UUI

24-hour watch

METAREA: III**Area Covered:** Black Sea (including Strait of Bosphorus) and Sea of Azov

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	3 310 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0233, 0633, 1033, 1433, 1833, 2233	A	For NW Black Sea.	Russian, English

UKRAINE**Maritime Radio Station: Sevastopol, Krymskoi**

Region: VI
Position: 44°34'N 33°32'E
Call Sign: URL

24-hour watch

METAREA: III**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 695 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0033, 0733, 1133, 1533, 1933, 2333 On request	A	Navigational warnings: For N Central Black Sea.	

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Aberdeen (MRCC)****Region:** VI**Position:** 57°09'N 02°05'W**Call Sign:** --

H24

METAREA: I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 226 kHz		Gregness	57°08'N 02°03'W	
VHF	B	Ch 23		Windy Head	57°39'N 02°14'W	
VHF	B	Ch 86		Rosemarkie	57°38'N 04°05'W	
VHF	B	Ch 84		Noss Head	58°29'N 03°03'W	
VHF	B	Ch 86		Gregness	57°08'N 02°03'W	
VHF	B	Ch 23		Durness	58°34'N 04°44'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1330 LT	A	Repetition of gale warnings and inshore forecast made only if there are gale warnings in force.	
0130, 1330 LT	B	Gale warnings for areas Fair Isle, Cromarty, Forth, Forties and Tyne. Inshore forecast for Areas 1 and 2.	
0430, 1030, 1630, 2230 LT	B	Repetition of inshore forecast and gale warnings. Strong wind warnings for Areas 1 and 2.	
0730, 1930 LT	A,B	Gale warnings and shipping forecast for areas Fair Isle, Cromarty, Forth, Forties and Tyne. Inshore forecast for Areas 1 and 2. 3-day forecast for fishermen (Oct-March). Navigational warnings: coastal (WZ) warnings for areas 1 and 2.	
On receipt	A, B	Gale warnings for Areas Fair Isle, Cromarty, Forth, Forties and Tyne. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 1 and 2.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Marine Rescue Co-ordination Centre: Belfast (MRSC)

Region: VI
Position: 54°40'N 05°40'W
Call Sign: --

H24

METAREA: I

Area Covered: Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 23		West Torr	55°12'N 06°06'W	
VHF	A	Ch 23		Slieve Martin	54°06'N 06°10'W	
VHF	A	Ch 84		Orlock Head	54°40'N 05°35'W	
VHF	A	Ch 23		Navar	54°28'N 07°54'W	
VHF	A	Ch 84		Limvady	55°06'N 06°53'W	
VHF	A	Ch 86		Black Mountain	54°35'N 06°01'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110, 1310 LT	A	Gale warnings for areas Irish Sea and Malin. Inshore forecast for areas 12-14.	
0410, 1010, 1610, 2210 LT	A	repetition of inshore forecast and gale warnings. Strong wind warnings for areas 12-14.	
0710, 1910 LT	A	Gale warnings and shipping forecast for areas Irish Sea and Malin. Inshore forecast for areas 12-14. Navigational warnings: coastal (WZ) warnings for areas 12-14.	
On receipt	A	Gale warnings, for Areas: Irish Sea and Malin. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 12-14.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Brixham (MRSC)****Region:** VI**Position:** 50°24'N 03°31'W**Call Sign:** --

H24

METAREA: I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 86		Rame Head	50°19'N 04°13'W	
VHF	A	Ch 10		Fowey	50°20'N 04°38'W	
VHF	A	Ch 84		East Prawle	50°13'N 03°42'W	
VHF	A	Ch 10		Dartmouth	50°21'N 03°35'W	
VHF	A	Ch 23		Berry Head	50°24'N 03°29'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110, 1310 LT	A	Gale warnings, for Areas Portland and Plymouth, Shannon, Fastnet and Sole. Inshore forecast for areas 8 and 9.	
0410, 1010, 1610, 2210 LT	A	repetition of inshore forecast and gale warnings Strong wind warnings for Areas 8 and 9.	
0710, 1910 LT	A	Gale warnings and shipping forecast for Areas Portland and Plymouth, Shannon, Fastnet and Sole. Inshore forecast for areas 8 and 9. Navigational warnings: coastal (WZ) warnings for areas 8 and 9.	
On receipt	A	Gale warnings, for Areas Portland and Plymouth, Shannon, Fastnet and Sole. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 8 and 9.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Marine Rescue Co-ordination Centre: Clyde (MRCC)

Region: VI
Position: 55°58'N 04°49'W
Call Sign: --

H24

METAREA: I

Area Covered: Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 883 kHz		Tiree	56°30'N 06°59'W	
VHF	B	Ch 10		Torosay	56°27'N 05°44'W	
VHF	B	Ch 86		Tiree	56°30'N 06°58'W	
VHF	B	Ch 23		South Knapdale	55°55'N 05°28'W	
VHF	B	Ch 10		Rhu Staffnish	55°22'N 05°32'W	
VHF	B	Ch 86		Lawhill	55°42'N 04°50'W	
VHF	B	Ch 84		Kilchiaran	55°46'N 06°27'W	
VHF	B	Ch 23		Glengorm	56°38'N 06°08'W	
VHF	B	Ch 84		Clyde	55°58'N 04°48'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0210, 1410	A	Repetition of gale warnings and inshore forecast made only if there area gale warning in force.	
0210, 1410	B	Gale warnings for areas Bailey, Hebrides, Rockall and Malin. Inshore forecast for areas 14 and 15.	
0510, 1110, 1710, 2310	B	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 14 and 15.	
0810, 2010	A, B	Gale warnings and shipping forecast for Areas Bailey, Hebrides, Rockall and Malin. Inshore forecast for areas 14 and 15. Navigational warnings: coastal (WZ) warnings for areas 14 and 15.	
On receipt	A, B	Gale warnings for Areas Bailey, Hebrides, Rockall and Malin. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 14 and 15.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Dover (MRCC)****Region:** VI**Position:** 51°08'N 01°21'E**Call Sign:** --

H24

METAREA: I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 86		Langdon	51°08'N 01°21'E	
VHF	A	Ch 84		Fairlight	50°52'N 00°39'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110, 1310 LT	A	Gale warnings, for Areas Humber, Thames, Dover and Wight. Inshore forecast for areas 5 and 6.	
0410, 1010, 1610, 2210 LT	A	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 5 and 6.	
0710, 1910 LT	A	Gale warnings and shipping forecast for areas Humber, Thames, Dover and Wight. Inshore forecast for areas 5 and 6. Navigational warnings: coastal (WZ) warnings for areas 5 and 6.	
0905, 2105	A	Shipping forecast: gale warnings, synopsis and 24 hour forecast for Areas Thames, Dover and Wight.	
On receipt	A	Gale warnings, for Areas Humber, Thames, Dover and Wight. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 5 and 6.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Marine Rescue Co-ordination Centre: Falmouth (MRCC)

Region: VI
Position: 50°09'N 05°03'W
Call Sign: --

H24

METAREA: I

Area Covered: Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 226 kHz		Lizard	49°59'N 05°12'W	
VHF	B	Ch 84		Trevose	50°33'N 05°02'W	
VHF	B	Ch 86		St. Mary's	49°56'N 06°18'W	
VHF	B	Ch 23		Lizard	49°58'N 05°12'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110, 1310 LT	A	Repetition of gale warnings and inshore forecast made only if there are gale warnings in force.	
0110, 1310 LT	B	Gale warnings for areas Portland, Plymouth, Shannon, Fastnet and Sole. Inshore forecast for areas 8 and 9.	
0410, 1010, 1610, 2210 LT	B	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 8 and 9.	
0710, 1910 LT	A, B	Gale warnings and shipping forecast for areas Portland, Plymouth, Shannon, Fastnet and Sole. Inshore forecast for areas 8 and 9. 3-day forecast for fishermen (Oct-March). Navigational warnings: coastal (WZ) warnings for areas 8 and 9.	
On receipt	A, B	Gale warnings, for areas Portland, Plymouth, Shannon, Fastnet and Sole. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 8 and 9.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Marine Rescue Co-ordination Centre: Forth (MRSC)

Region: VI
Position: 56°16'N 02°35'W
Call Sign: --

H24

METAREA: I

Area Covered: Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 86		St Abbs	55°54'N 02°12'W	
VHF	A	Ch 23		Inverbervie	56°51'N 02°16'W	
VHF	A	Ch 84		Fife Ness	56°17'N 02°35'W	
VHF	A	Ch 23		Craigkelly	56°04'N 03°14'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1330 LT	A	Gale warnings for areas: Fair Isle, Cromarty, Forth, Forties and Tyne. Inshore forecast for areas 1 and 2.	
0430, 1030, 1630, 2230 LT	A	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 1 and 2.	
0730, 1930 LT	A	Gale warnings and shipping forecast for areas: Fair Isle, Cromarty, Forth, Forties and Tyne. Inshore forecast for areas 1 and 2. 3-day forecast for fishermen (Oct-March). Navigational warnings: coastal (WZ) warnings for areas 1 and 2.	
On receipt	A	Gale warnings for areas: Fair Isle, Cromarty, Forth, Forties and Tyne. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 1 and 2.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Holyhead (MRSC)****Region:** VI**Position:** 53°19'N 04°38'W**Call Sign:** --

H24

METAREA: I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 23		Great Orme	53°20'N 03°51'W	
VHF	A	Ch 86		South Stack	53°19'N 04°41'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350 LT	A	Gale warnings, for Area Irish Sea. Inshore forecast for areas 10 and 11.	
0235, 0635, 1035, 1435, 1835, 2235	A	Navigational warnings: For area Echo.	
0450, 1050, 1650, 2250 LT	A	repetition of inshore forecast and gale warnings. Strong wind warnings for areas 10 and 11.	
0750, 1950 LT	A	Gale warnings and shipping forecast for area Irish sea. Inshore forecast for areas 10 and 11. Navigational warnings: coastal (WZ) warnings for areas 10 and 11.	
On receipt	A	Gale warnings, for Area Irish Sea. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 10 and 11.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Marine Rescue Co-ordination Centre: Humber (MRCC)

H24

Region: VI
Position: 54°06'N 00°11'W
Call Sign: --

METAREA: I

Area Covered: Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2226 kHz		Flamborough	54°07'N 00°05'W	
	B	Ch 86		Cullercoats	55°04'N 01°28'W	
	B	Ch 86		Easington	53°39'N 00°06'W	
	B	Ch 23		Flamborough	54°07'N 00°05'W	
	B	Ch 23		Hartlepool	54°42'N 01°10'W	
	B	Ch 23		Newton	55°31'N 01°37'W	
	B	Ch 86		Ravenscar	54°24'N 00°30'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350 LT	A	Repetition of gale warnings and inshore forecast made only if there are gale warnings in force.	
0150, 1350 LT	B	Gale warnings, for Areas Tyne, Dogger, Humber and German Bight. Inshore forecast for areas: 3 and 4.	
0450, 1050, 1650, 2250 LT	B	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 3 and 4.	
0750, 1950 LT	A, B	Gale warnings and shipping forecast for areas: Tyne, Dogger, Humber and German Bight. Inshore forecast for areas: 3 and 4. 3-day forecast for fishermen (Oct-March). Navigational warnings: coastal (WZ) warnings for areas 3 and 4.	
On receipt	A, B	Gale warnings, for Areas Tyne, Dogger, Humber and German Bight. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 3 and 4.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Liverpool (MRSC)****Region:** VI**Position:** 53°30'N 03°03'W**Call Sign:** --

H24

METAREA: I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 86		Snaefell	54°16'N 04°28'W	
VHF	A	Ch 23		Moel-y-parc	53°13'N 03°18'W	
VHF	A	Ch 84		Langthwaite	54°02'N 02°46'W	
VHF	A	Ch 23		Caldbeck	54°46'N 03°05'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1330 LT	A	Gale warnings, for Area: Irish Sea. Inshore forecast for areas 11 and 12.	
0430, 1030, 1630, 2230 LT	A	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 11 and 12.	
0730, 1930 LT	A	Gale warnings and shipping forecast for area Irish Sea. Inshore forecast for areas 11 and 12. Navigational warnings: Coastal (WZ) warnings for areas 11 and 12.	
On receipt	A	Gale warnings, for Area: Irish Sea. Strong wind warnings. Navigational warnings: Coastal (WZ) warnings for areas 11 and 12.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Milford Haven (MRSC)****Region:** VI**Position:** 51°42'N 05°03'W**Call Sign:** --

H24

METAREA: I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 84		St. Ann's Head	51°40'N 05°11'W	
VHF	A	Ch 84		Monkstone Point	51°42'N 04°41'W	
VHF	A	Ch 86		Dinas Head	52°00'N 04°54'W	
VHF	A	Ch 84		Blaenphwyf	52°22'N 04°06'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350 LT	A	Gale warnings, for Areas: Lundy, Irish Sea and Fastnet. Inshore forecast for areas 9 and 10.	
0450, 1050, 1650, 2250 LT	A	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 9 and 10.	
0750, 1950 LT	A	Gale warnings and shipping forecast for areas: Lundy, Irish Sea and Fastnet. Inshore forecast for areas 9 and 10. Navigational warnings: coastal (WZ) warnings for areas 9 and 10.	
On receipt	A	Gale warnings, for Areas: Lundy, Irish Sea and Fastnet. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 9 and 10.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Portland (MRSC)****Region:** VI**Position:** 50°36'N 02°27'W**Call Sign:** --

H24

METAREA: I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 84		The Grove	50°33'N 02°25'W	
VHF	A	Ch 86		Beer Head	50°41'N 03°06'W	
RT (MF)	A	2 670 kHz				
VHF	B	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1330 LT	A	Gale warnings for areas: Wight, Portland and Plymouth. Inshore forecast for areas 6-8.	
0430, 1030, 1630, 2230 LT	A	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 6-8.	
0730, 1930 LT	A	Gale warnings and shipping forecast for Areas: Plymouth, Portland and Wight. Inshore forecast for areas 6-8. Navigational warnings: coastal (WZ) warnings for areas 6-8.	
1105, 2305	A,B	Local weather.	
On receipt	A	Gale warnings for areas: Wight, Portland and Plymouth. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 6-8.	
On receipt 1105, 2305	A,B	Storm and local navigational warnings.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Marine Rescue Co-ordination Centre: Shetland (MRSC)

Region: VI
Position: 60°08'N 01°08'W
Call Sign: --

H24

METAREA: I

Area Covered: Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 770 kHz		Collafirth	60°32'N 01°23'W	
VHF	B	Ch 86		Wideford (Orkney)	58°59'N 03°01'W	
VHF	B	Ch 23		Saxa Vord	60°50'N 00°50'W	
VHF	B	Ch 23		Fitful Head	59°54'N 01°23'W	
VHF	B	Ch 86		Collafirth	60°32'N 01°23'W	
VHF	B	Ch 84		Lerwick	60°08'N 01°08'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110, 1310 LT	A	Repetition of gale warnings and inshore forecast made only if there are gale warnings in force.	
0110, 1310 LT	B	Gale warnings for areas: Faeroes, Fair Isle, Viking and Cromarty. Inshore forecast for areas 1 and 17.	
0410, 1010, 1610, 2210 LT	B	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 1 and 17.	
0710, 1910 LT	A, B	Gale warnings and shipping forecast for areas: Faeroes, Fair Isle, Viking and Cromarty. Inshore forecast for areas 1 and 17. 3-day forecast for fishermen (Oct-March). Navigational warnings: coastal (WZ) warnings for areas 1 and 17.	
On receipt	A, B	Gale warnings for areas: Faeroes, Fair Isle, Viking and Cromarty. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 1 and 17.	
On receipt and at the following broadcasts until 0105, 0505, 0905, 1305, 1705, 2105	A, B	Gale warnings, for Areas: Faeroes, Fair Isle and Viking.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Solent (MRSC)**

H24

Region: VI**Position:** 50°48'N 01°13'W**Call Sign:** --**METAREA:** I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 86		Newhaven	50°47'N 00°03'E	
VHF	A	Ch 86		Needles	50°39'N 01°35'W	
VHF	A	Ch 23		Boniface Down	50°36'N 01°12'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1330 LT	A	Gale warnings, for Areas: Wight, Portland and Plymouth. Inshore forecast for areas 6-8.	
0430, 1030, 1630, 2230 LT	A	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 6-8.	
0730, 1930 LT	A	Gale warnings and shipping forecast for areas: Wight, Portland and Plymouth. Inshore forecast for areas 6-8. Navigational warnings: Coastal (WZ) for areas 6-8.	
On receipt	A	Gale warnings, for Areas: Wight, Portland and Plymouth. Strong wind warnings. Navigational warnings: Coastal (WZ) for areas 6-8.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Marine Rescue Co-ordination Centre: Stornoway (MRSC)

Region: VI
Position: 58°12'N 06°22'W
Call Sign: --

H24

METAREA: I

Area Covered: Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 743 kHz		Butt of Lewis	58°28'N 06°14'W	
VHF	B	Ch 84		Skriag	57°23'N 06°14'W	
VHF	B	Ch 86		Rodel	57°45'N 06°57'W	
VHF	B	Ch 84		Portnauguran	58°15'N 06°10'W	
VHF	B	Ch 23		Melvaig	57°51'N 05°47'W	
VHF	B	Ch 23		Forsnaval	58°13'N 07°00'W	
VHF	B	Ch 86		Drumfearn	57°12'N 05°48'W	
VHF	B	Ch 84		Clettraval	57°37'N 07°27'W	
VHF	B	Ch 86		Butt of Lewis	58°28'N 06°14'W	
VHF	B	Ch 10		Barra	57°01'N 07°30'W	
VHF	B	Ch 23		Arisaig	56°55'N 05°50'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110, 1310 LT	A	Repetition of gale warnings and inshore forecast made only if there are gale warnings in force.	
0110, 1310 LT	B	Gale warnings for areas: Hebrides, Bailey, Rockall, Faeroes, fair Isle, SE Iceland and Malin. Strong wind warnings. Inshore forecast for area 16.	
0410, 1010, 1610, 2210 LT	B	Repetition of inshore forecast and gale warnings. Strong wind warnings for area 16.	
0710, 1910 LT	A, B	Gale warnings and shipping forecast for areas: Hebrides, Bailey, Rockall, Faeroes, fair Isle, SE Iceland and Malin. Inshore forecast for area 16. 3-day forecast for fishermen (Oct-March). Navigational warnings: coastal (WZ) warnings for area 16.	
On receipt	A, B	Gale warnings for areas: Hebrides, Bailey, Rockall, Faeroes, fair Isle, SE Iceland and Malin. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for area 16.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Swansea (MRCC)****Region:** VI**Position:** 51°34'N 03°59'W**Call Sign:** --

H24

METAREA: I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 86		Severn Bridges	51°37'N 02°39'W	
VHF	A	Ch 23		St. Hillary	51°27'N 03°24'W	
VHF	A	Ch 86		Mumbles	51°34'N 03°59'W	
VHF	A	Ch 86		Hartland Point	51°01'N 04°31'W	
VHF	A	Ch 23		Combe Martin	51°10'N 04°03'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350 LT	A	gale warnings for areas: Lundy, Fastnet and Irish Sea. Inshore forecast for areas 9 and 10.	
0450, 1050, 1650, 2250 LT	A	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 9 and 10.	
0750, 1950 LT	A	Gale warnings and shipping forecast for areas: Lundy, Fastnet and Irish Sea. Inshore forecast for areas 9 and 10. Navigational warnings: Coastal (WZ) warnings for areas 9 and 10.	
On receipt	A	Gale warnings, for Areas: Lundy, Fastnet and Irish Sea. Strong wind warnings. Navigational warnings: Coastal (WZ) warnings for areas 9 and 10.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Thames (MRCC)****Region:** VI**Position:** 51°51'N 01°17'E**Call Sign:** --

H24

METAREA: I**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 23		Walton on the Naze	51°51'N 01°17'E	
VHF	A	Ch 23		Shoeburyness	51°31'N 00°47'E	
VHF	A	Ch 86		Bradwell	51°44'N 00°53'E	
VHF	A	Ch 84		Bawdsey	52°00'N 01°25'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110, 1310 LT	A	Gale warnings, for Areas: Humber, Thames, Wight and Dover. Inshore forecast for areas 5 and 6.	
0410, 1010, 1610, 2210 LT	A	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 5 and 6.	
0710, 1910 LT	A	Gale warnings and shipping forecast for areas: Humber, Thames, Wight and Dover. Inshore forecast for areas 5 and 6. Navigational warnings: coastal (WZ) warnings for areas 5 and 6.	
On receipt	A	Gale warnings, for Areas: Humber, Thames, Wight and Dover. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 5 and 6.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Marine Rescue Co-ordination Centre: Yarmouth (MRCC)****Region:** VI**Position:** 52°36'N 01°43'E**Call Sign:** --

H24

METAREA: I**Area Covered:** North Atlantic to Barents Sea - Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 23		Yarmouth	52°36'N 01°43'E	
VHF	A	Ch 23		Trimingham	52°55'N 01°21'E	
VHF	A	Ch 23		Lowestoft	52°29'N 01°46'E	
VHF	A	Ch 86		Langham	52°57'N 00°57'E	
VHF	A	Ch 23		Guy's Head	52°48'N 00°13'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350 LT	A	Gale warnings, for Areas: Humber and Thames. Inshore forecast for areas 4 and 5.	
0450, 1050, 1650, 2250 LT	A	Repetition of inshore forecast and gale warnings. Strong wind warnings for areas 4 and 5.	
0750, 1950 LT	A	Gale warnings and shipping forecast for areas: Humber and Thames. Inshore forecast for areas 4 and 5. Navigational warnings: coastal (WZ) warnings for areas 4 and 5.	
On receipt	A	Gale warnings, for Areas: Humber and Thames. Strong wind warnings. Navigational warnings: coastal (WZ) warnings for areas 4 and 5.	
On receipt and at the following broadcasts until 0040, 0440, 0840, 1240, 1640, 2040	A	Navigational warnings for area: Juliett and Kilo.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Astoria (USCG)****Region:** IV
Position: 46°12'N 123°57'W
Call Sign: NMW

24-hour watch

METAREA: XII
Area Covered: East Pacific

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0533, 1733	A	Gale warnings, synopsis and forecast for offshore areas 81 and 82.	
On receipt 0533, 1733	A	Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Atlantic City (USCG)

Region: IV
Position: 38°57'N 74°53'W
Call Sign: --

METAREA: IV
Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1103, 2303	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Storm warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Baltimore (USCG)

Region: IV
Position:
Call Sign: --

METAREA: IV

Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1205	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Storm warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Boston, Massachusetts (USCG)

Region: IV
Position: 41°42'N 70°30'W
Call Sign: NMF, NIK

24-hour watch

METAREA: IV
Area Covered: North Atlantic to Barents Sea

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1035, 2235	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings.	

NOTE: Remotely controlled from CAMSLANT

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Buffalo (USCG)****Region:** IV
Position:
Call Sign: NMD47**METAREA:** IV
Area Covered: Great Lakes

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0255, 1455	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for Lakes Erie and Ontario. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Cape Hatteras (USCG)

Region: IV
Position: 35°14'N 75°32'W
Call Sign: NMN13

METAREA: IV

Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0100, 1055	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Charleston (USCG)

Region: IV
Position: 32°47'N 79°57'W
Call Sign: NMB

METAREA: IV
Area Covered: Atlantic area

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1200, 2200 On receipt	A	Local warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Chesapeake (USCG)
CAMSLANT (Communications Area Master Station Atlantic)****Region:** IV**Position:** 36°47'N 76°20'W**Call Sign:** NMN**METAREA:** IV**Area Covered:** Atlantic area

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 426 kHz				
RT (HF)	B	6 501 kHz				
RT (HF)	C	8 764 kHz				
RT (HF)	D	13 089 kHz				
RT (HF)	E	17 314 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0330, 0515, 0930, 1115, 1530, 1715, 2130, 2315	A-E	Hurricane information.	
0330, 0930	A-C	Off shore forecasts: warnings, synopsis and forecast for all areas.	
0515	A-C	High Seas Forecast: warnings, synopsis and forecast for the North Atlantic N of 7°N, W of 35°W including the Gulf of Mexico and Caribbean Sea.	
1115, 2315	B-D	High Seas Forecast: warnings, synopsis and forecast for the North Atlantic N of 7°N, W of 35°W including the Gulf of Mexico and Caribbean Sea.	
1530, 2130	B-D	Off shore forecasts: warnings, synopsis and forecast for all areas.	
1715	C-E	High Seas Forecast: warnings, synopsis and forecast for the North Atlantic N of 7°N, W of 35°W including the Gulf of Mexico and Caribbean Sea.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Chincoteague (Eastern Shore) (USCG)

Region: IV
Position: 36°56'N 75°23'W
Call Sign: NMN70

METAREA: IV
Area Covered: Atlantic area

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200, 1145	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Corpus Christi (USCG)**

Region: IV
Position: 27°48'N 97°24'W
Call Sign: NOY8

METAREA: IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1040, 1240, 1640, 2240	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Detroit (USCG)

Region: IV
Position:
Call Sign: NMD25

METAREA: IV
Area Covered: Great Lakes

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135, 1335	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for Lakes Erie S. Clair and Huron. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Fort Macon (USCG)****Region:** IV
Position: 34°41'N 76°41'W
Call Sign: --**METAREA:** IV**Area Covered:** Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22 CG				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1030	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Galveston (USCG)

Region: IV
Position: 29°20'N 94°46'W
Call Sign: --

METAREA: IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22 CG				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Gale warnings.	
On receipt 1050, 1250, 1650, 2250	A	Gale warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Grand Haven (USCG)

Region: IV
Position:
Call Sign: NMD32

METAREA: IV
Area Covered: Great Lakes

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0235, 1435	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Hampton Roads (USCG)

Region: IV
Position: 36°53'N 76°21'W
Call Sign: --

METAREA: IV

Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230, 1120	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Humboldt Bay (USCG)

Region: IV
Position: 40°46'N 124°03'W
Call Sign: NMC11

METAREA: XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1615, 2315 On receipt	A	Gale warnings and local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Key West (USCG)****Region:** IV
Position:
Call Sign: NOK**METAREA:** IV**Area Covered:** Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1200, 2200	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Maritime Radio Station: KKL Radio - Vashon Island**

Region: IV
Position: 47°22'N 122°29'W
Call Sign: --

METAREA: XII
Area Covered: Pacific Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 125 kHz				1400-0400
RT (HF)	B	12 103 kHz				1400-0400

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On request	A, B	Weather reports for the Gulf of Alaska and Bering Sea to the International Dateline, coasts of Washington and Oregon out to 250 n miles, North Pacific to 55°N west to 180° and south to Equator. Navigational warnings: Navigational warnings: Local warnings for Washington and Oregon coastal waters. Ice Reports for Alaskan coastal waters.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Long Beach (USCG)

24-hour watch

Region: IV
Position: 33°44'N 118°24'W
Call Sign: NMQ9

METAREA: XII
Area Covered: East Pacific

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200, 1800	A	Gale warnings and local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Long Island Sound (USCG)

Region: IV
Position: 41°16'N 72°54'W
Call Sign: --

METAREA: IV
Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1120, 2320	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Mayport (USCG)

Region: IV
Position: 30°23'N 72°54'W
Call Sign: NMV

METAREA: IV

Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	B	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1215, 2215 On receipt	B	Gale warnings and local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Miami (USCG)

24-hour watch

Region: IV
Position: 25°54'N 80°16'W
Call Sign: NCF, NMA

METAREA: IV
Area Covered: Atlantic area

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1230, 2230 On receipt	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Milwaukee (USCG)

Region: IV
Position:
Call Sign: NMP9

METAREA: IV
Area Covered: Great Lakes

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0255, 1455	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for Lake Michigan.	

UNITED STATES OF AMERICA**Maritime Radio Station: Mobile****Region:** IV
Position: 30°39'N 88°03'W
Call Sign:**METAREA:** IV**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	17 260 kHz				
RT (HF)	A	13 152 kHz				
RT (HF)	A	8 806 kHz				
RT (HF)	A	6 519 kHz				
RT (HF)	A	4 396 kHz				
RT (HF)	A	22 804 kHz				
RT (HF)	A	17 362 kHz				
RT (HF)	A	13 110 kHz				
RT (HF)	A	8 788 kHz				
RT (HF)	A	4 369 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0500, 1100, 1700, 2300	A	Weather bulletins for Gulf of Mexico, Southwest North Atlantic and Caribbean.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Mobile (USCG)**

Region: IV
Position: 30°39'N 88°03'W
Call Sign: NOQ

METAREA: IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1020, 1220, 1620, 2220	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Moriches (USCG)****Region:** IV
Position: 40°47'N 72°45'W
Call Sign: --**METAREA:** IV**Area Covered:** Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 1210	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: New Orleans, Louisiana (USCG)****Region:** IV
Position: 29°53'N 89°57'W
Call Sign: NMG

24-hour watch

METAREA: IV
Area Covered: Atlantic area

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	12 788 kHz				
RT (HF)	A	8 502 kHz				
RT (HF)	A	4 316 kHz				
VHF	B	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0330, 0515, 0930, 1115, 1530, 1715, 2130, 2315,	A	Hurricane information.	
0330, 0930, 1530, 2130	A	Offshore forecasts: warnings, synopsis and forecasts for all areas.	
0515, 1115, 1715, 2315	A	High seas forecasts: warnings, synopsis and forecast for the North Atlantic N of 7°N, W of 35°W including the Gulf of Mexico and Caribbean Sea.	
1035, 1235, 1635, 2235	B	Local weather. Navigational warnings: Local warnings.	
On receipt	B	Gale warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: New York (USCG)

Region: IV
Position: 40°28'N 74°00'W
Call Sign: KEA

METAREA: IV

Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1050, 2250	A	Local weather. Navigational warnings: Local warnings.	
1050,, 2250	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: North Bend (USCG)**
Region: IV
Position: 43°25'N 124°14'W
Call Sign: NOE

METAREA: XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0603, 1803	A	Gale warnings, synopsis and forecast for offshore areas 81 and 82. Gale warnings and local weather for coastal areas. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for offshore areas 81 and 82. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Philadelphia (USCG)

Region: IV
Position:
Call Sign: --

METAREA: IV

Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0035, 1235	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Point Reyes (USCG)
CAMSPAC (Communications Area Master Station Pacific)

Region: IV**Position:** 37°56'N 122°44'W**Call Sign:** NMC**METAREA:** XII**Area Covered:** Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 426 kHz				
RT (HF)	B	13 089 kHz				
RT (HF)	B	8 764 kHz				
RT (HF)	C	17 314 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0430, 1030	A, B	Offshore forecasts for Areas 81-85. High Seas forecast for NE Pacific - Equator to 30°N and E of 140°W.	
1630, 2230	B,C	Offshore forecasts for Areas 81-85. High Seas forecast for NE Pacific - Equator to 30°N and E of 140°W.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Point Reyes, San Francisco (USCG)****Region:** IV
Position: 37°38'N 122°23'W
Call Sign: KPH

24-hour watch

METAREA: XII
Area Covered: East Pacific

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1630, 1900, 2130(1)	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

(1) Winter.

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Port Angeles (USCG)

Region: IV
Position: 48°08'N 123°24'W
Call Sign: NOW

METAREA: XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0615, 1815	A	Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Portland (USCG)

Region: IV
Position: 43°40'N 70°15'W
Call Sign: NMF31

METAREA: IV
Area Covered: Pacific coast

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Saint Petersburg (USCG)**

Region: IV
Position: 27°46'N 82°38'W
Call Sign: NME

METAREA: IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1300, 2300	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: San Diego (USCG)

Region: IV
Position: 32°44'N 117°10'W
Call Sign: NOR

METAREA: XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Sandy Hook (USCG)

Region: IV
Position: 40°28'N 24°01'W
Call Sign: NMF52

METAREA: IV
Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1020, 2220	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Sault Sainte Marie (USCG)****Region:** IV
Position:
Call Sign: NOG**METAREA:** IV
Area Covered: Great Lakes

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0005, 1205	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for Lakes Superior, Michigan and Huron. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Maritime Radio Station: Seattle**

Region: IV
Position: 48°12'N 122°14'W
Call Sign: KLB

METAREA: XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	17 311 kHz				
RT (HF)	A	13 101 kHz				
RT (HF)	A	8 731 kHz				
RT (HF)	A	4 405 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0800, 1500	A	Forecast for Alaska offshore.	
0800, 1500, 2000	A	Forecast for North East Pacific.	
Every H+00	A	Tropical weather updates during hurricane season.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Seattle (USCG)****Region:** IV
Position:
Call Sign: NMW43**METAREA:** XII
Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0630, 1830	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Southwest Harbour (USCG)

Region: IV
Position: 44°16'N 68°19'W
Call Sign: NMF44

METAREA: IV

Area Covered: Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1135, 2335	A	Local weather. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Woods Hole (USCG)**

Region: IV
Position: 41°34'N 70°40'W
Call Sign: NMF2

METAREA: IV**Area Covered:** Atlantic Coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1005, 2205	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: Annette (Weather Service Office)****Region:** IV
Position: 55°02'N 131°36'W
Call Sign: KGD58**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 125 kHz				
VHF	B	Ch 09 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0040, 1600	A	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36, 41-43 and Gulf of Alaska offshore.	
0050, 1500	B	Storm warnings and weather forecasts.	

(1) After announcement on VHF Ch 16.

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: Barrow (Weather Service Office)**

Region: IV
Position: 71°16'N 156°50'W
Call Sign: --

METAREA: XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 125 kHz				1 Apr-15 Sept
VHF	B	Ch 68 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0300, 1600, 2100	B	Storm warnings and weather forecasts.	
0400, 1530	A	Gale warnings, synopsis and forecast for Areas 215, 220, 225, 230, 235 240 and 245. Generalised statement on ice coverage from Wales to Demarcation Point.	

(1) After announcement on VHF Ch 16.

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: Bethel (Weather Service Office)****Region:** IV
Position: 60°49'N 161°49'W
Call Sign: --**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 66 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0100, 1630	A	Storm warnings and weather forecasts.	

(1) After announcement on VHF Ch 16 / 68.

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: Cold Bay (Weather Service Office)****Region:** IV
Position: 55°15'N 162°46'W
Call Sign: KCI95**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 125 kHz				
VHF	B	Ch 09 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0215, 1815	B	Storm warnings and weather forecasts.	
0530, 1930	A	Gale warnings, synopsis and forecast for Areas 150, 155, 160, 165, 170-172, 175, 176, 179, 180 and Bearing Sea Offshore.	

(1) After announcement on VHF Ch 16.

UNITED STATES OF AMERICA (ALASKA)**Marine Rescue Co-ordination Centre: Juneau (USCG)****Region:** IV
Position:
Call Sign: NMJ1**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A		Yakutat	59°31'N 139°46'W	
VHF	B	Ch 22A		Althorp Peak	58°05'N 136°24'W	
VHF	C	Ch 22A		Mt. Robert Barron	58°14'N 134°50'W	
VHF	D	Ch 22A		Cape Farnshaw	57°12'N 133°28'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 1403	A, D	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43.	
0303, 1503	C	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43.	
0403, 1433	B	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43.	
On receipt	A-D	Gale warnings for areas 11-13, 21, 22, 31-36 and 41-43.	

UNITED STATES OF AMERICA (ALASKA)**Marine Rescue Co-ordination Centre: Ketchikan (USCG)****Region:** IV
Position:
Call Sign: NMJ2**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A		Zarembo I.	56°21'N 132°52'W	
VHF	B	Ch 22A		Cape Decision	56°00'N 134°08'W	
VHF	C	Ch 22A		Gravina I.	55°22'N 131°48'W	
VHF	D	Ch 22A		Sukkwan I.	55°06'N 132°46'W	
VHF	E	Ch 22A		Mary I.	55°05'N 131°13'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0215, 1415	A, D	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43, 51-53, 120, 121, 125-129. Navigational warnings: Local warnings.	
0233, 1433	B, E	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43, 51-53, 120, 121, 125-129. Navigational warnings: Local warnings.	
0315, 1515	C	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43, 51-53, 120, 121, 125-129. Navigational warnings: Local warnings.	
On receipt	A-E	Gale warnings for areas 11-13, 21, 22, 31-36 and 41-43, 51-53, 120, 121, 125-129. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: King Salmon (Weather Service Office)****Region:** IV
Position: 58°40'N 156°40'W
Call Sign: KCI98**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 125 kHz				
VHF	B	Ch 09 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1400, 2100	B	Storm warnings and weather forecasts.	
0130, 2000	A	Gale warnings, synopsis and forecast for Areas 130, 132, 138, 150, 155, 160, 165, 170, 172, 175, 176, 179, 180 and Bearing Sea Offshore.	

(1) After announcement on VHF Ch 16.

UNITED STATES OF AMERICA (ALASKA)**Marine Rescue Co-ordination Centre: Kodiak (USCG)****Region:** IV
Position: 57°46'N 152°34'W
Call Sign: --**METAREA:** XII**Area Covered:** Coastal waters of Alaska - East Pacific

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	6 501 kHz				
VHF	B	Ch 22A		Tuklung Mt.	58°51'N 159°27'W	
VHF	C	Ch 22A		Sitkinak Dome	56°33'N 154°10'W	
VHF	D	Ch 22A		Cape Gull	58°13'N 154°09'W	
VHF	E	Ch 22A		Pillar Mt.	57°47'N 152°27'W	
VHF	F	Ch 22A		Narrow Cape	57°26'N 152°25'W	
VHF	G	Ch 22A		Diamond Ridge	59°42'N 151°34'W	
VHF	H	Ch 22A		Site Summit	61°15'N 149°32'W	
VHF	I	Ch 22A		Rugged Island	59°51'N 149°22'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1430	D, E, G		
0203, 1645	A	Offshore forecast for Gulf of Alaska and Bering Sea and high seas forecast for Pacific. Navigational warnings: Tsunami watch / warning for Alaska and west coast of United States.	
0230, 1800	B, H		
0530, 1600	G, I		
On receipt	A-I	Gale and strom warnings.	

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: Kodiak (Weather Service Office)**

Region: IV
Position: 57°49'N 152°30'W
Call Sign: WBH29

24-hour watch

METAREA: XII**Area Covered:** East Pacific - Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 125 kHz				
VHF	B	Ch 09 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200, 1500	B	Storm warnings and weather forecasts.	
0400, 1700	A	Gale warnings, synopsis and forecast for Areas 41-43, 51-53, 120, 130, 132, 138, 150, 155, 160, 165, 170 and Gulf of Alaska and Bearing Sea Offshore.	

(1) After announcement on VHF Ch 16.

UNITED STATES OF AMERICA (ALASKA)

Maritime Radio Station: Kotzebue (Weather Service Office)

Region: IV
Position: 66°51'N 162°40'W
Call Sign: --

METAREA: XII
Area Covered: Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 68 (1)				May-Oct

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030, 1530	A	Storm warnings and weather forecasts.	

(1) After announcement on VHF Ch 16 / 68.

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: Mc Grath (Weather Service Office)****Region:** IV**Position:****Call Sign:** --**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 07 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0400, 1600	A	Storm warnings and weather forecasts.	

(1) After announcement on VHF Ch 16.

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: Nome (Weather Service Office)****Region:** IV
Position: 64°30'N 165°30'W
Call Sign: --**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 125 kHz				
VHF	B	Ch 09 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0400, 1600	B	Storm warnings and weather forecasts.	
0630, 2030	A	Gale warnings, synopsis and forecast for Areas 200, 210, 215, 220, 225, 230, 235, 240, 245.	

(1) After announcement on VHF Ch 16.

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: S. Paul Island (Weather Service Office)****Region:** IV
Position: 57°05'N 170°15'W
Call Sign: --**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 06 09 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200, 1500, 1630, 2300	A	Storm warnings and weather forecasts.	
0200, 1500, 1630, 2300	A	Storm warnings and weather forecasts.	

(1) After announcement on VHF Ch 16.

UNITED STATES OF AMERICA (ALASKA)**Marine Rescue Co-ordination Centre: Sitka (USCG)****Region:** IV**Position:****Call Sign:** --**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A		Mud Bay	57°09'N 135°39'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0903, 1350, 2103	A	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for areas 11-13, 21, 22, 31-36 and 41-43. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA (ALASKA)**Marine Rescue Co-ordination Centre: Valdez (USCG)****Region:** IV
Position:
Call Sign: NMJ3**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A		Point Pigot	60°49'N 148°21'W	
VHF	B	Ch 22A		Naked Island	60°38'N 147°20'W	
VHF	C	Ch 22A		Valdez	61°08'N 146°16'W	
VHF	D	Ch 22A		Boswell Bay	60°24'N 146°06'W	
VHF	E	Ch 22A		Cape Yakataga	60°04'N 142°25'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0115, 0715, 1315, 2115	B, C, E	Gale warnings, synopsis and forecast for Areas 51-53, 120, 121 and 125-129. Navigational warnings: Local warnings.	
0133, 0733, 1333, 2133	A, D	Gale warnings, synopsis and forecast for Areas 51-53, 120, 121 and 125-129. Navigational warnings: Local warnings.	
On receipt	A-E	Gale warnings for areas 51-53, 120, 121 and 125-129. Navigational warnings: Local warnings.	

UNITED STATES OF AMERICA (ALASKA)**Maritime Radio Station: Yakutat (Weather Service Office)**

Region: IV
Position: 59°29'N 139°49'W
Call Sign: KGD91

METAREA: XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 125 kHz				
VHF	B	Ch 09 (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230, 1530	B	Storm warnings and weather forecasts.	
0430, 1415	A	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36, 41-43, 51-53, 120, 125-129 and Gulf of Alaska Offshore.	

(1) After announcement on VHF Ch 16.

UNITED STATES OF AMERICA (HAWAII)**Marine Rescue Co-ordination Centre: Honolulu (USCG)****Region:** V
Position: 21°26'N 158°09'W
Call Sign: NMO

24-hour watch

METAREA: XII**Area Covered:** East Pacific
(a) Coastal waters out to 100 miles from Hawaiian Islands and inter-island channels
(b) Offshore waters within 1000 miles of Hawaiian Islands
(c) North Pacific; Equator - 50°N, 140°W - 160°E
(d) South Pacific; Equator - 25°S, 110°W - 160°E

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	6 501 kHz				
RT (HF)	B	8 764 kHz				
RT (HF)	C	13 089 kHz				
VHF	D	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0005, 1800	B, C	Gale warnings, synopsis, forecast for Pacific High Seas Forecast Areas. Coastal waters forecast up to 40 n miles. Offshore forecasts beyond 40 n miles out to 240 n miles. Tsunami Watch / Warning for Central Pacific, whilst in force. Navigational warnings: Maritime Safety Information.	
0500, 0900, 1700, 2100	D	Navigational warnings: Local navigational warnings for the Hawaiian Islands.	
0500, 1700	D	Gale warnings, synopsis, forecast for Pacific High Seas Forecast Areas. Coastal waters forecast up to 40 n miles. Offshore forecasts beyond 40 n miles out to 240 n miles. Tsunami Watch / Warning for Central Pacific, whilst in force.	
0600, 1200	A, B	Gale warnings, synopsis, forecast for Pacific High Seas Forecast Areas. Coastal waters forecast up to 40 n miles. Offshore forecasts beyond 40 n miles out to 240 n miles. Tsunami Watch / Warning for Central Pacific, whilst in force. Navigational warnings: Maritime Safety Information.	
On receipt	D	Gale warnings. Navigational warnings: Urgent navigational warnings.	

NOTE:

Radio-Telex and RT (HF) broadcasts are remotely controlled from CAMSPAC (Point Reyes).

UNITED STATES OF AMERICA (HAWAII)**Maritime Radio Station: Kekaha, Kauai**

Region: V
Position: 21°59'N 159°46'W
Call Sign: WWVH

METAREA: XII**Area Covered:** (a) North Pacific; (b) South Pacific, Equator - 25°S, between 110°W and 160°E

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	A	2.5 MHz				
AM	B	5.0 MHz				
AM	C	10.0 MHz				
AM	D	15.0 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
H+48, H+49, H+50	A-D	Storm warnings: 45 second message giving location and movements of storm centres and associated wind speed for the North Pacific and South Pacific - Equator-25°S and 160°E-110°W.	
H+51	A-D	Storm warnings: 45 second message giving location and movements of storm centres and associated wind speed for the North Pacific E of 140°W.	

URUGUAY

Marine Rescue Co-ordination Centre: Atlántida (PREFECTURA)

Region: III
Position: 34°47'S 55°45'W
Call Sign: --

METAREA: V

Area Covered: -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0533, 1333, 1933	A		

URUGUAY

Marine Rescue Co-ordination Centre: Carmelo (PREFECTURA)

Region: III
Position: 34°00'S 54°18'W
Call Sign: --

METAREA: V

Area Covered: -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0300, 1503, 2133	A		

URUGUAY**Marine Rescue Co-ordination Centre: Colonia (PREFECTURA)****Region:** III
Position: 34°28'S 57°51'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0333, 1333, 2103	A	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Control Montevideo (PREFECTURA)****Region:** III
Position: 34°54'S 56°12'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 1133, 1903	A	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Fray Bentos (PREFECTURA)****Region:** III
Position: 33°07'S 58°18'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200, 0800, 1400, 2000	A	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: La Paloma****Region:** III**Position:** 34°39'S 54°08'W**Call Sign:** --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				
RT (MF)	B	2 722.1 kHz				
RT (HF)	C	4 146 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0600, 1200, 1900	A-C	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Nueva Palmira (PREFECTURA)****Region:** III
Position: 33°53'S 58°25'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0333, 1033, 1500, 1803, 2100	A	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Paysandú (PREFECTURA)****Region:** III
Position: 32°18'S 58°05'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0300, 0903, 2103	A	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Piriápolis (PREFECTURA)****Region:** III**Position:** 34°53'S 55°16'W**Call Sign:** --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1333, 2103	A	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Puerto Sauce (PREFECTURA)****Region:** III
Position: 34°26'S 57°26'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 1303, 1933	A	Weather bulletins.	

URUGUAY

Marine Rescue Co-ordination Centre: Puerto Sauce (PREFECTURA)

Region: III
Position: 34°26'S 57°26'W
Call Sign: --

METAREA: V
Area Covered: -

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 1303, 1933	A	Weather bulletins. Navigational warnings.	

URUGUAY**Maritime Radio Station: Punta Carretas**

Region: III
Position: 34°48'S 56°21'W
Call Sign: --

METAREA: V**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 768.5				
RT (HF)	B	22 636.3				
RT (HF)	B	17 260.8				
RT (HF)	B	13 128.7				
RT (HF)	B	8 291.1				
RT (HF)	B	6 518.8				
RT (HF)	B	4 357.4				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003, 1403, 2103	A, B	Weather bulletins for all areas. Navigational warnings: For Uruguayan coastal waters, Río de la Plata and Río Uruguay (Spanish only).	Spanish, English

URUGUAY**Marine Rescue Co-ordination Centre: Punta del Este (PREFECTURA)****Region:** III
Position: 34°58'S 54°51'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				
RT (MF)	B	2 722.1 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 1503, 2133	A, B	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Rio Branco (PREFECTURA)****Region:** III
Position: 32°34'S 53°23'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				
RT (MF)	B	2 722.1 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0933, 1703, 2333	A,B	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Salto (PREFECTURA)****Region:** III
Position: 31°23'S 57°59'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0505, 1105, 1705, 2305	A	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Sodre****Region:** III
Position: 34°49'S 56°22'W
Call Sign: CX 6**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	650				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1200	A	Weather bulletins.	

URUGUAY**Marine Rescue Co-ordination Centre: Trouville (PREFECTURA)****Region:** III
Position: 34°52'S 56°18'W
Call Sign: --**METAREA:** V**Area Covered:** -

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 722.1 kHz				
RT (HF)	B	4 146 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0503, 1903	B	Weather bulletins. Navigational warnings: For Uruguayan coastal waters, Rio de la Plata, Rio Uruguay.	Spanish
0103, 1103, 1903	A	Weather bulletins. Navigational warnings for Uruguayan coastal waters, Rio de la Plata, Rio Uruguay.	Spanish

VANUATU**Maritime Radio Station: Port-Vila****Region:** V**Position:** 17°44'S 168°18'E**Call Sign:** --**METAREA:** XIV**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 385.3 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1030, 1930 LT	A	Gale warnings, forecast for local waters.	French, English, Bislama
On receipt after announcement on 4125 and 6215.5 kHz	A	Storm warnings repeated during the period of validity.	

VIET NAM**Maritime Radio Station: Da Nang**

Region: II
Position: 16°04'N 108°12E
Call Sign: XVT

Watch kept for less than 30 minutes (station with limited hours of operation)

METAREA: XI

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 294 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030, 1230	A	Weather bulletins.	Vietnamese

VIET NAM**Maritime Radio Station: Hai Phong**

Region: II
Position: 20°51'N 106°42'E
Call Sign: XVG

Station keeping a watch for at least 30 minutes: beginning at 00, 06, 12, 18 UTC daily. A watch is also kept for at least 30 minutes at the beginning of the nearest "single operator period following the standard synoptic hours

METAREA: XI

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 294 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0100, 1300	A	Weather bulletins.	Vietnamese
Every odd H+00	A	Storm warnings.	Vietnamese

VIET NAM**Maritime Radio Station: Ho Chi Minh Ville**

Region: II
Position: 10°23'N 107°09'E
Call Sign: XVS

Station keeping a watch for at least 30 minutes: beginning at 00, 06, 12, 18 UTC daily. A watch is also kept for at least 30 minutes at the beginning of the nearest "single operator period following the standard synoptic hours

METAREA: XI

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 294 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200, 1200	A	Weather bulletins.	Vietnamese
Every even H+00	A	Storm warnings.	Vietnamese

CHAPTER 2

MARITIME SAFETY INFORMATION (MSI) BROADCAST SERVICE

PART A

SATELLITE SYSTEMS / COMMUNICATIONS

INMARSAT – C

**Land Earth Stations (LESs)
accepting Short Access Code (SAC) 41 messages**

INMARSAT-C Land Earth Stations (LESs) accepting Short Access Code (SAC) 41 messages

SAC 41 = Meteorological Reports

In the framework of the GMDSS, meteorological observations from ship – regarded as Maritime Safety Information – can be sent free of charge for the ships if sent via the Inmarsat satellite data telecommunication system using transmission code 41. The cost of transmission is paid by the meteorological service of the receiving country.

Updated: 01/11/2014

Satellite Ocean Region	LES Operator	LES Location	Country	Associated MRCCs	Access codes	METAREA
AOR-E	Stratos	Ex Goonhilly at Burum (virtual LES only, traffic is all via Burum LES)	United Kingdom of Great Britain and Northern Ireland	Falmouth MRCC	102	I
AOR-E	Stratos Mobile Networks	Burum (Station 12)	Netherlands	Den Helder JRCC	112	I
AOR-E	Vizada	Eik	Norway	Stavanger JRCC	104	I
AOR-E	Vizada	Aussaguel	France	Gris-Nez CROSS	121	II
AOR-E	OTE	Thermopylae	Greece	Piraeus JRCC	120	III
AOR-W	Stratos Global	Ex Goonhilly at Burum (virtual LES only, traffic is all via Burum LES)	United Kingdom of Great Britain and Northern Ireland	Falmouth MRCC	002	I
AOR-W	Stratos Mobile Networks	Burum (Station 12)	Netherlands	Den Helder JRCC	012	I
AOR-W	Vizada	Eik	Norway	Stavanger JRCC	004	I

Satellite Ocean Region	LES Operator	LES Location	Country	Associated MRCCs	Access codes	METAREA
AOR-W	Vizada	Aussaguel	France	Gris-Nez CROSS	021	II
IOR	Stratos Mobile Networks	Burum (Station 12)	Netherlands	Den Helder JRCC	312	I
IOR	Vizada	Eik	Norway	Stavanger JRCC	304	I
IOR	Vizada	Aussaguel	France	Gris-Nez CROSS	321	II
IOR	OTE	Thermopylae	Greece	Piraeus JRCC	305	III
IOR	VSNL	Pune (1)	India	Mumbai MRCC	306	VIII
IOR	Stratos	Perth (Station 12)	Australia	Australia RCC	312	X
IOR	KDDI	Yamaguchi	Japan	Operations Centre, Tokyo	303	XI
IOR	Singapore Telecom (Singtel)	Sentosa	Singapore	Port Operations Control Centre	328	XI
POR	Vizada	Eik at Santa Paula	United States of America	Stavanger JRCC	204	IV
POR	Stratos	Perth (Station 12)	Australia	Australia RCC	212	X
POR	KDDI	Yamaguchi	Japan	Operations Centre, Tokyo	203	XI
POR	Singapore Telecom (Singtel)	Sentosa	Singapore	Port Operations Control Centre	210	XI

Satellite Ocean Region	LES Operator	LES Location	Country	Associated MRCCs	Access codes	METAREA
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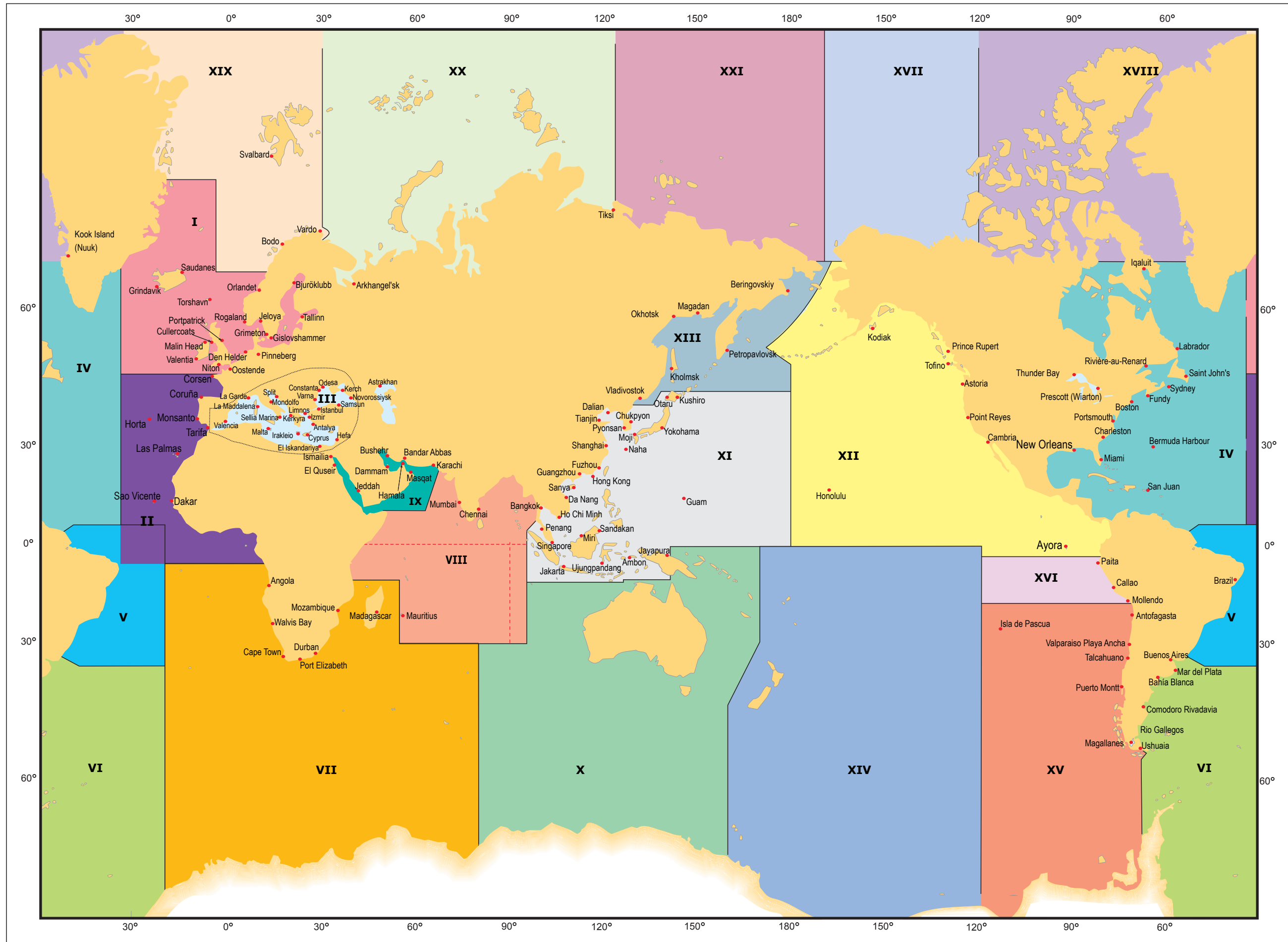
NOTES:

- * Code 41 should be used by weather observing vessels to send their weather observations. In most cases where the service is available, the service is free of charge to vessels, the national weather authority paying the relevant charges.
- ** Country column shows location of antenna where initial ship-to-shore distress alerts are received.
- (1) Accepted if reported from within METAREA VIII(N) only.

PART B

NAVTEX STATIONS

NAVTEX STATIONS



ANGOLA

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Region: WMO REGION: I
Position:

METAREA: VII
Area Covered:

NOTE: NAVTEX services for Angola are available through the NAVAREA VII coordinator.

ARGENTINA**Bahía Blanca (PREFECTURA NAVAL)****Region:** WMO REGION: III**Position:** 38°43'S 62°6'W**METAREA:** VI**Area Covered:** South Atlantic - Atlantic area of Argentina from Claromecó to the mouth of the Río Negro (Zone III)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[P]		518 kHz	
	MSI	[D]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0230, 1030, 1830	[P]	Local weather bulletin.	Spanish
0630, 1430, 2230	[P]	Local weather bulletin.	English
0230 0630 1030 1430 1830 2230	[D]		

ARGENTINA**Buenos Aires (PREFECTURA NAVAL)****Region:** WMO REGION: III**Position:** 34°27'S 58°37'W**METAREA:** VI**Area Covered:** South Atlantic

Area I: Covers the Río de la Plata, from the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay 34°58'10"S, 54°57'05"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina 36°17'38"S, 56°47'05"W), and the area of the Atlantic ocean between the two geographical points and 300 n miles out to sea.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[R]		518 kHz	
	MSI	[F]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0250, 1050, 1850	[R]	Local weather bulletin for Area I.	Spanish
0650, 1450, 2250	[R]	Local weather bulletin for Area I.	
0050 0450 0850 1250 1650 2050	[F]		

ARGENTINA**Comodoro Rivadavia (PREFECTURA NAVAL)****Region:** WMO REGION: III**Position:** 45°51'S 67°25'W

24-hour watch

METAREA: VI**Area Covered:** South Atlantic

Area I: Covers the Río de la Plata, from the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay 34°58'10"S, 54°57'05"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina 36°17'38"S, 56°47'05"W), and the area of the Atlantic ocean between the two geographical points and 300 n miles out to sea.

Area II: The Atlantic Ocean between 36°17'38"S, and 55°00'00"S.

Zone III: the Falkland Islands (Islas Malvinas)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		

MSI	[O]	518 kHz
MSI	[O]	490 kHz

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
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0620, 1420, 2220	[O]	Local weather bulletin. Local warnings.	English
0220, 1020, 1820	[O]	Local weather bulletin. Navigational warnings: Local navigational warnings.	Spanish

ARGENTINA**Mar del Plata (PREFECTURA NAVAL)****Region:** WMO REGION: III**Position:** 38°03'S 57°32'W

24-hour watch

METAREA: VI**Area Covered:** South Atlantic - Atlantic area of Argentina between 36°S and the mouth of Río Negro (Zones II and III) (see map)

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[Q]		518 kHz	
MSI		[Q]	490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0640, 1440, 2240	[Q]	Weather bulletin.	English

ARGENTINA**Rio Gallegos (PREFECTURA NAVAL)****Region:** WMO REGION: III**Position:** 51°37'S 69°03'W**METAREA:** VI**Area Covered:** South Atlantic - Area II - the Atlantic Ocean between 36°17'38"S, and 55°00'00"S

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[N]		518 kHz	
MSI	[N]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0610, 1410, 2210	[N]	Local weather bulletin.	English
0210, 1010, 1810	[N]	Local weather bulletin. Navigational warnings: Local navigational warnings and water level reports.	Spanish

ARGENTINA**Ushuaia (PREFECTURA NAVAL)****Region:** WMO REGION: III**Position:** 54°48'S 68°18'W**METAREA:** VI**Area Covered:** South Atlantic - Atlantic area of Argentina from Faro Cabo Guardián to Ushuaia

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[M]		518 kHz	
	MSI	[M]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0600, 1400, 2200	[M]	Local weather bulletin.	English
0200, 1400, 2200	[M]	Local weather bulletin. Navigational warnings: Local navigational warnings.	Spanish

BAHRAIN**Hamala****Region:** WMO REGION: II**Position:** 26°09'N 50°28'E**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[B]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	[B]	Warnings: For Persian Gulf and approaches.	English
0410, 1610	[B]	Synopsis and 24 hour forecast for Persian Gulf, Strait of Hormuz and Gulf of Oman.	English

BELGIUM**Oostende****Region:** WMO REGION: VI**Position:** 51°11'N 02°48'E**METAREA:** I**Area Covered:** N.Sea/Gulf of Bothania/Finland - Coasts of Belgium and those of Sea Areas Thames and Dover

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[T]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0310, 0710, 1110, 1510, 1910, 2310	[T]	Gale warnings for Areas Dover and Thames. Baltic Ice Code for Netherlands Area Group GG.	English
0710, 1910	[T]	Weather forecast for areas Dover, Thames.	English

BERMUDA**Bermuda Harbour****Region:** WMO REGION: IV**Position:** 32°23'N 64°41'W**METAREA:** IV**Area Covered:** Carribean Sea - Bermuda local area and Western North Atlantic area

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[B]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	[B]	Latest urgent weather and tropical weather warnings for METAREA IV. Forecast for Southwest North Atlantic, S of 31°N, W of 65°W and Local Bermuda Area Forecast. Tropical weather warnings are included during 1 June to 30 November when the event concerned is within the boundaries 18°N to 42°N and 50°W to 80°W. Local inshore and offshore warnings.	English

BRAZIL

Brazilian MMS

Region: WMO REGION: III

Position:

METAREA: V

Area Covered:

Although Brazilian MMS does not operate NAVTEX stations, the Maritime Safety Information (MSI) produced for METAREA V is transmitted, on request, to mariners who are in coastal areas in certain VHF and HF frequencies, which can be checked on the Brazilian marine weather service web page (<https://www.mar.mil.br/dhn/chm/meteo/info/transmissoesing.htm>).

This network is known as National Network of Coastal Stations (RENEC) and is operated by a Brazilian telecommunication company (Embratel).

BULGARIA**Varna****Region:** WMO REGION: VI**Position:** 43°04'N 27°46'E**METAREA:** III**Area Covered:** Coastal waters of Bulgaria and region of Black Sea - Mediterranean Sea/Black Sea

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[J]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0130, 0530, 0930, 1330, 1730, 2130	[J]	Warnings for central part of western region of Black Sea, Area J (Juliett).	Bulgarian, English
0530, 1730	[J]	Storm warnings, weather summary, 12 hour forecast for coastal waters of Bulgaria and central western region of Black Sea, Area 2.	Bulgarian, English

CABO VERDE

Sao Vicente

Region: WMO REGION: I
Position:

METAREA: II
Area Covered:

CANADA**Fundy (Yarmouth) (CCG)****Region:** WMO REGION: IV**Position:** 43°45'N 66°10'W

24-hour watch

METAREA: IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[U]		518 kHz	
	MSI		[V]	490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0320, 1520	[U]	Notices to Shipping.	English
0720, 1120, 1920, 2320	[U]	Weather and sea state forecasts for Areas 201-208.	English
0335, 1535	[V]	Notices to Shipping.	French
0735, 1135, 1935, 2335	[V]	Weather and sea state forecasts for Areas 201-208.	French

CANADA**Iqaluit (CCG)****Region:** WMO REGION: IV**Position:** 63°44'N 68°33'W**METAREA:** XVIII**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[T]		518 kHz	
	MSI	[S]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0310, 0710, 1510, 1910	[T]	25 June - 30 November approximately: Weather forecasts for Areas 144, 145 and 147-150.	English
1110, 2310	[T]	Warnings: 25 June - 30 November approximately: Notices to Shipping for NORDREG waters, east of 106°W and labrador coast southward to 58°N. Ice bulletins for Areas 3-5.	English
0300, 0700, 1500, 1900	[S]	25 June - 30 November approximately: Weather forecasts for Areas 144, 145 and 147-150.	French
1100, 2300	[S]	Navigational warnings: 25 June - 30 November approximately: Notices to Shipping for NORDREG waters, east of 106°W and labrador coast southward to 58°N. Ice bulletins for Areas 3-5.	French

CANADA**Labrador (CCG)****Region:** WMO REGION: IV**Position:** 53°42'N 57°01'W**METAREA:** IV**Area Covered:** North Atlantic to Barents Sea
Arctic coast, Atlantic Coast and S. Lawrence River

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[X]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0350, 0750, 1550, 1950	[X]	Weather forecasts for Areas 222-230.	English
0910, 2110	[X]	1 July - 31 October approximately: Weather forecasts for Areas 222-230.	English
1150	[X]	Notices to Shipping.	English
2350 (summer)	[X]	Notices to Shipping.	English
2350 (winter)	[X]	Ice bulletins for Areas 7 and 8.	English

CANADA**Prescott (Wiarion) (CCG)****Region:** WMO REGION: IV**Position:** 44°20'N 81°10'W

24-hour watch

METAREA: IV**Area Covered:** Great Lakes

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[H]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0110, 1310	[H]	Notices to shipping. Ice Bulletins for Lake Ontario, Lake Erie (east of 80°20'W), Lake Huron, Georgian Bay, Lake Superior and Whitefish Bay.	English
0510, 0910, 1710, 2110	[H]	Forecast for areas 402-406.	English

CANADA

Prince Rupert (CCG)

Region: WMO REGION: IV

Position: 54°18'N 130°25'W

24-hour watch

METAREA: XII

Area Covered: Coastal waters of western Canada - East Pacific Coast

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[D]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0030, 0830, 1230, 2030	[D]	Synopsis for Areas 1-17. Forecast for Areas 2-5, 9, 13-17.	English
0430, 1630	[D]	Notices to shipping.	English

CANADA**Rivière-au-Renard (CCG)****Region:** WMO REGION: IV**Position:** 50°11'N 66°07'W

24-hour watch

METAREA: IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[C]		518 kHz	
	MSI		[D]	490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0020 (winter)	[C]	Ice bulletins for areas 20, 23, 24.	English
0020, 0820, 1220, 2020	[C]	Weather forecasts for Areas 215-222 and 301-304.	English
0420, 1620	[C]	Notices to Shipping.	English
0035 (winter)	[D]	Ice bulletins for areas 20, 23, 24.	French
0435, 1635	[D]	Notices to Shipping.	French

CANADA**Saint John's, Newfoundland (CCG)****Region:** WMO REGION: IV**Position:** 47°30'N 52°40'W

24-hour watch

METAREA: IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[O]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0220, 0620, 1420, 1820, (summer)	[O]	Weather forecasts for Areas 232-238.	English
0220, 0620, 1420, 2220, (winter)	[O]	Weather forecasts for Areas 232-238.	English
0620 (winter)	[O]	Notices to Shipping.	English
1020, 2220 (summer)	[O]	Notices to Shipping.	English
1820 (winter)	[O]	International ice patrol. Ice bulletins for areas 9-15.	English
2220 (summer)	[O]	International ice patrol. Ice bulletins for areas 9-15.	English

CANADA**Sydney (CCG)****Region:** WMO REGION: IV**Position:** 46°10'N 60°00'W

24-hour watch

METAREA: IV**Area Covered:** North Atlantic to Barents Sea
Arctic coast, Atlantic Coast and S. Lawrence River

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[Q]		518 kHz	
	MSI		[J]	490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0240, 1440	[Q]	Notices to shipping.	English
0640, 1040, 1840	[Q]	Weather forecasts for areas 209-219, 231.	English
2240 (summer only)	[Q]	Weather forecasts for areas 209-219, 231.	English
2240 (winter only)	[Q]	Ice bulletins for Areas 16-23.	English
0255, 1455	[J]	Notices to shipping.	French
0655, 1055, 1855	[J]	Weather forecasts for Areas 209-219 and 231.	English
2255 (summer only)	[J]	Weather forecasts for Areas 209-219 and 231.	English
2255 (winter only)	[J]	Ice bulletins for Areas 16-23.	French

CANADA**Thunder Bay (CCG)****Region:** WMO REGION: IV**Position:** 48°25'N 89°20'W

24-hour watch

METAREA: IV**Area Covered:** Great Lakes

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[P]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0230, 1030, 1430, 2230	[P]	Forecast for areas 406-408.	English
0630, 1830	[P]	Notices to shipping. Ice Bulletins for Lake Huron, Lake Superior and Whitefish Bay.	English

CANADA**Tofino (CCG)****Region:** WMO REGION: IV**Position:** 48°56'N 125°32'W

24-hour watch

METAREA: XII**Area Covered:** East Pacific Coast

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[H]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0110, 0510, 0910, 1310, 1710, 2110	[H]	Automated Weather Reports from: (a) Cape S. James; (b) Cathedral Point; (c) Herbert Island; (d) Sartine Island; (e) Solander Island; (f) Sheringham Point; (g) Race Rocks; (h) Discovery Island. Ocean buoy Reports from: (a) West Sea Otter; (b) East Dellwood; (c) South Brooks; (d) La Perouse Bank.	English
0110, 1310	[H]	Weather synopsis and forecast for areas 1, 5-13.	English
0510, 1710	[H]	Northeast Pacific High Seas Forecast.	English
0910, 2110	[H]	Notices to shipping.	English

CHILE**Antofagasta Zonal****Region:** WMO REGION: III**Position:** 23°40'S 70°25'W

24-hour watch

METAREA: XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[A]		518 kHz	
	MSI	[H]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0400, 1200, 2000	[A]	Storm warnings, and forecast for Areas 1-3.	English
0000, 0800, 1600	[H]	Storm warnings, and forecast for Areas 1-3.	English

CHILE**Isla de Pascua (Easter Island)****Region:** WMO REGION: III**Position:** 27°09'S 109°23'W**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[F]		518 kHz	
	MSI	[G]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0450, 1250, 2050	[F]	Storm warnings, and forecast for Isla de Pascua.	English
0050, 0850, 1650	[G]	Storm warnings, and forecast for Isla de Pascua. In .	Spanish

CHILE**Magallanes****Region:** WMO REGION: III**Position:** 52°09'S 70°54'W**METAREA:** XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[E]		518 kHz	
	MSI	[L]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0440, 1240, 2040	[E]	Storm warnings, and forecast for Areas 6-8. Ice reports when situation so requires.	English
0040, 0840, 1640	[L]	Storm warnings, and forecast for Areas 6-8. Ice reports when situation so requires.	Spanish

CHILE**Puerto Montt Zonal Radio****Region:** WMO REGION: III**Position:** 41°29'S 72°57'W**METAREA:** XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[D]		518 kHz	
	MSI	[K]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0430, 1230, 2030	[D]	Storm warnings and forecasts for areas 4-8. NURNAV. Ice reports when required.	English

CHILE**Talcahuano Zonal Radio****Region:** WMO REGION: III**Position:** 36°42'S 73°06'W

24-hour watch

METAREA: XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[C]		518 kHz	
	MSI	[J]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0420, 1220, 2020	[C]	Storm warnings, and forecast for Areas 3-5.	English
0020, 0820, 1620	[J]	Storm warnings, and forecast for Areas 3-5.	Spanish

CHILE**Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)****Region:** WMO REGION: III**Position:** 32°48'S 71°29'W

24-hour watch

METAREA: XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[B]		518 kHz	
	MSI	[I]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0410, 1210, 2010	[B]	Storm warnings, and weather forecast.	English
0010, 0810, 1610	[I]	Storm warnings, and weather forecast.	Spanish

CHINA**Dalian****Region:** WMO REGION: II**Position:** 38°52'N 121°31'E

24-hour watch

METAREA: XI**Area Covered:** East/South China Sea

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[R]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0250, 0650, 1050, 1450, 2250	[R]	Storm Warnings.	English, Chinese
0250, 1050	[R]	Gale warnings, situation, 24 hour forecast for areas 1-4.	English, Chinese
0650, 1450, 2250	[R]	For Areas 1-4.	English, Chinese

CHINA

Fuzhou

Region: WMO REGION: II
Position: 26°02'N 119°18'E

METAREA: XI

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[O]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0220, 0620, 1020, 1420, 2220	[O]		English, Chinese

CHINA**Guangzhou****Region:** WMO REGION: II**Position:** 23°09'N 113°29'E

24-hour watch

METAREA: XI**Area Covered:** East/South China Sea
Taiwan Straits, Bashi Channel, Nanhai Sea and Beibu Wan Gulf (Bac Bo Gulf) (see map)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[N]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0210, 0610, 1010, 1410, 2210	[N]	Storm Warnings.	English
0210, 1410	[N]	Tropical storm warnings and 24 hour forecast.	English
0610, 1010, 2210	[N]	Warnings: For coastal waters of China S of 24°N.	EnglishEnglish

CHINA

Sanya

Region: WMO REGION: II
Position: 18°14'N 109°33'E

METAREA: XI

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[M]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0200, 0600, 1000, 1400, 2200	[M]		

CHINA**Shanghai****Region:** WMO REGION: II**Position:** 31°07'N 121°33'E

24-hour watch

METAREA: XI**Area Covered:** East/South China Sea
Bohai Sea, Huanghai Sea, Donghai Sea, Shanghai Port, Taiwan Straits and sea areas around Taiwan province (see map)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[Q]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0240, 0640, 1040	[Q]	For coastal waters of China N of 24°N.	English, Chinese
0240, 0640, 1040, 1440, 2240	[Q]	Gale warnings.	English, Chinese
0240, 1040	[Q]	Gale warnings, synopsis for East Asia, 24 hour forecast for Areas 1-14 and Shanghai Harbour.	English, Chinese

CHINA

Tianjin

Region: WMO REGION: II

Position: 38°54'N 117°44'E

METAREA: XI

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[S]		518 kHz	

CROATIA**Split (Hvar I.)****Region:** WMO REGION: VI**Position:** 43°30'N 16°29'E

24-hour watch

METAREA: III**Area Covered:** Adriatic Sea

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[Q]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0240, 0640, 1040, 1440, 1840, 2240	[Q]	Gale warnings, synopsis and 24 hour forecast for Adriatic Sea and Strait of Otranto.	English

CURAÇAO AND BONAIRE (NETHERLANDS ANTILLES)

Curaçao

Region: WMO REGION: IV
Position: 12°10'N 68°52'W

METAREA: IV

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[H]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0110, 0510, 0910, 1310, 1710, 2110	[H]	Local warnings for Carribbean.	English
1310	[H]	Gale warnings, synopsis, 24 hour and 48 hour wind forecast, visibility and outlook forecast for Caribbean Sea.	English

CYPRUS

Cyprus

Region: WMO REGION: VI

Position: 35°03'N 33°17'E

METAREA: III

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[M]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0200, 0600, 1000, 1400, 1800, 2200	[M]	Gale warnings and forecast for Eastern Mediterranean. Warnings for Eastern Mediterranean.	English

DENMARK AND FAROE ISLANDS

Tórshavn Radio (Faeroes)

Region: WMO REGION: VI

Position: 62°02'N 06°48'W

24-hour watch

METAREA: I

Area Covered: Faroe Islands and surrounding waters

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[D]		518 kHz	

ECUADOR

Ayora

Region: WMO REGION: III

Position: 00°45'S 90°19'W

METAREA: XII

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[L]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0150, 0550, 0950, 1350, 1750, 2150	[L]		English

EGYPT**El Iskandariya (Alexandria)****Region:** WMO REGION: I**Position:** 31°11'N 29°52'E

24-hour watch

METAREA: III**Area Covered:** The Eastern Mediterranean south of 34°N and east of 20°E. The Red Sea north of 23°N.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[N]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0210, 0610, 1010, 1410, 1810, 2210	[N]		English
1010, 2210	[N]	Storm warnings and 12 hour forecasts for areas A, B, C and D.	English

EGYPT**El Quseir (Kosseir)****Region:** WMO REGION: I**Position:** 26°06'N 34°17'E

Watch kept for less than 30 minutes (station with limited hours of operation)

METAREA: IX**Area Covered:** Red Sea coast - The Eastern Mediterranean south of 34°N and east of 20°E. The Red Sea north of 23°N.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[V]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0330, 0730, 1130, 1530, 1930, 2330	[V]		English
0330, 1530	[V]	Weather forecast for aras E and F.	English

EGYPT**Ismailia****Region:** WMO REGION: I**Position:** 30°28'N 32°22'E**METAREA:** IX**Area Covered:** The Eastern Mediterranean south of 34°N and east of 20°E. The Red Sea north of 23°N.

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[X]		518 kHz	
MSI	[X]		4 209.5 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0350, 0750, 1150, 1550, 1950, 2350	[X]	For Bur Sait (Port Said), Gulf of Suez (N of Safaga) and Gulf of Aqaba.	English
0750, 1150	[X]	For Bur Sait (Port Said), Gulf of Suez (N of Safaga) and Gulf of Aqaba.	English

ESTONIA**Tallinn****Region:** WMO REGION: VI**Position:** 59°28'N 24°21'E**METAREA:** I**Area Covered:** N.Sea/Gulf of Bothania/Finland
Baltic Sea Areas 5-10

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[U]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0320, 1520, 2320	[U]	Weather warnings.	English
0720, 1920	[U]	Weather warnings and weather forecast.	English
1120	[U]	Weather warnings and Ice reports.	English

FRANCE

Corsen (CROSS) (MRCC)

Region: WMO REGION: VI

Position: 48°24'N 04°47'W

METAREA: II

Area Covered: West of Channel and Atlantic coastal areas:
 (a) Casquets; (e) Rochebonne; (i) Sole; (m) Irish Sea; (b) Ouessant ; (f) Cantabrico; (j) Shannon; (n) Rockall; (c) Iroise; (g) Finisterre; (k) Fastnet; (o) Malin; (d) Yeu; (h) Pazenn; (l) Lundy; (p) Hebrides

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[A]		518 kHz	
	MSI	[E]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0000, 1200	[A]	Repetition: Gale/storm warnings. General situation and development. Forecast by zones (c) to (h), valid for the following 24 hours. Further weather outlook.	English
On receipt when frequency is not in use & at the following watch hours (00, 04, 08, 12, 16, 20 UTC) (2)	[A]	Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (c)-(h).	English
0840, 2040	[E]	Repetition: Gale/storm warnings. General situation and development. Forecast by zones (a) to (m), valid for the following 24 hours. Further weather outlook.	French
On receipt when frequency is not in use & at the following watch hours (0040, 0440, 0840, 1240, 1640, 2040)	[E]	Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a)-(p).	French

FRANCE

La Garde (CROSS) (MRCC)

Region: WMO REGION: VI

Position: 43°06'N 05°59'E

METAREA: III

Area Covered: Northern part of the Western Mediterranean Sea:
(a) Est Cabrera; (c) Minorque; (e) Provence; (g) Corse; (i) Maddalena; (b) Baléares; (d) Lion; (f) Ligure; (h) Sardaigne; (j) Elbe

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[W]		518 kHz	
	MSI	[S]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
1140, 2340	[W]	Repetition: Gale/storm warnings. General situation and development. Forecast by zones (a) to (j), valid for the following 24 hours. Further weather outlook.	English
On receipt when frequency is not in use & at the following watch hours (0340, 0740, 1140, 1540, 1940, 2340)	[W]	Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a)- (j).	English
1100, 2300	[S]	Repetition: Gale/storm warnings. General situation and development. Forecast by zones (a) to (j), valid for the following 24 hours. Further weather outlook.	French
On receipt when frequency is not in use & at the following watch hours (03, 07, 11, 15, 19, 23 UTC)	[S]	Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a)- (j).	French

GERMANY

Pinneberg

Region: WMO REGION: VI

Position: 53°40'N 09°49'E

METAREA: I

Area Covered: North Atlantic north of 40°N, East of 55°W, North Sea and Baltic Sea

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[S]		518 kHz	

GREECE

Irakleio (Kriti) **Region:** WMO REGION: VI
Position: 35°20'N 25°07'E

METAREA: III**Area Covered:** Kithira Sea, SW Kritiko, SE Kritiko, Kastellorizo Sea, Rodos Sea, Karpathio, W Kritiko, E Kritiko, SW Aegean, SE Aegean Ikario, Samos Sea, Saronikos, Evvoikos, Kafireas Strait, Central Aegean

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[H]		518 kHz	Sub-areas: 25-26, 29-31, 35, 37-49, 51 (see map page 32)
	MSI	[Q]		490 kHz	Sub-areas: 25-26, 29-31, 35, 37-49, 51 (see map page 32)
	MSI	[S]		4209.5 kHz	Sub-areas: 25-26, 29-31, 35, 37-49, 51 (see map page 32)

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
On receipt 0510, 0910, 1710, 2110	[H]	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook	English
On receipt 1040, 1840	[Q]	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook	Greeklisch (Greek wording/English characters)
On receipt 1100, 1900	[S]	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook	Greeklisch (Greek wording/English characters)

GREECE**Kerkyra****Region:** WMO REGION: VI**Position:** 39°36'N 19°53'E**METAREA:** III**Area Covered:** S. Adriatic, N. Ionio, S. Ionio, Patraikos, Korinthiakos, Kithira Sea

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[K]		518 kHz	Sub-areas: 20, 25-29 (see map page 32)
MSI		[P]	490 KHz	Sub-areas: 20, 25-29 (see map page 32)

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
On receipt 0540, 0940, 1740, 2140	[K]	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook	English
On receipt 1030, 1830	[P]	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook	Greeklsh (Greek wording – English characters)

GREECE**Limnos****Region:** WMO REGION: VI**Position:** 39°54'N 25°10'E**METAREA:** III**Area Covered:** Samos Sea, Saronikos, S. Evvoikos, Kafireas Straits, Central Aegean, NW Aegean, NE Aegean, Thermaikos, Thrakiko

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[L]		518 kHz	Sub-areas: 42-49, 51 (see map page 32)
MSI		[R]	490 kHz	Sub-areas: 42-49, 51 (see map page 32)

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0550, 0950, 1750, 2150	[L]	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook.	English
1050, 1850	[R]	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook.	Greeklisch (Freek wording – English characters)

GREENLAND (KALAALLIT NUNAAT)**Kook Island (Nuuk)****Region:** WMO REGION: VI**Position:** 64°04'N 52°01'W**METAREA:** XVIII**Area Covered:** Sea districts: Narsalik and Meqqitsq

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[W]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0340, 0740, 1140, 1540, 1940, 2340	[W]	Storm warnings and forecast for areas 7-14. Ice reports for W Coast of Greenland.	English

GUAM**Guam (USCG)****Region:** WMO REGION: V**Position:** 13°34'N 144°50'E

24-hour watch

METAREA: XI**Area Covered:** Pacific area

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[V]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0330, 0730, 1130, 1530, 1930, 2230	[V]	Gale warnings and forecast for Guam and N. Mariana Islands.	English

HONG KONG, CHINA

Hong Kong

Region: WMO REGION: II

Position: 22°13'N 114°15'E

METAREA: XI

Area Covered: For warnings of tropical cyclones: 10°N to 30°N, 105°E to 125°E.
For warnings of winds of force 8 or above: Hong Kong Marine Forecast Areas (see map).

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[L]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0150, 0550, 0950, 1350, 1750, 2150	[L]	Warnings of winds of force 8 or above. A synopsis of significant weather system within the sea area 10°N-30°N, 105°E-125°E. Forecast for 24 hours from 0100/1300 for Hong Kong Marine Forecast Areas.	English
On receipt	[L]	Warnings are issued whenever a tropical cyclone is located within the area 10°N-30°N, 105°E-125°E. Note: Warnings are repeated once in the next scheduled broadcast.	English

ICELAND**Grindavik****Region:** WMO REGION: VI**Position:** 63°50'N 22°27'W

24-hour watch

METAREA: I**Area Covered:** Greenland East coast (North Atlantic to Barents Sea)
Coastal districts and coastal waters of Iceland between 63°N and 67°30'N, from 12°W to 27°W

Mode Of Transmission	ID SLOT International National	Frequency	Area
MSI	[R]	518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0250, 0650, 1050, 1450, 1850, 2250	[R]	Part 1: ICE. Coastal waters of Iceland Part 2: Weather situation Part 3: Forecasts for coastal districts and coastal waters of Iceland valid for 24 to 36 hours. Note: The latest ice report and forecast is repeated on request.	
On receipt	[R]	Storm warnings.	English
0320, 0720, 1120, 1520, 1920, 2320	[R]	Storm warnings.	Icelandic

ICELAND

Saudanes

Region: WMO REGION: VI

Position: 66°11'N 18°57'W

METAREA: I

Area Covered: Greenland East coast (North Atlantic to Barents Sea)
Coastal districts and coastal waters of Iceland between 63°N and 67°30'N, from 12°W to 27°W

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[R]		518 kHz	

INDIA**Chennai (Madras)****Region:** WMO REGION: II**Position:** 13°05'N 80°17'E**METAREA:** VIII(N)**Area Covered:** Indian Ocean/Arab.Gulf/Red Sea

Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Mode Of Transmission	ID SLOT International National	Frequency	Area
MSI	[P]	518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0230, 1030	[P]	For the Bay of Bengal coast.	English
0630, 1830	[P]	Forecast and sometimes balloon observations for Bay of Bengal and coastal areas 13, 14.	English

INDIA**Mumbai (Bombay) (COMCEN)****Region:** WMO REGION: II**Position:** 19°05'N 72°50'E**METAREA:** VIII(N)**Area Covered:** Indian Ocean/Arab Gulf/Red Sea

Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Mode Of Transmission	ID SLOT International National	Frequency	Area
MSI	[G]	518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0500, 0900, 1300, 1700, 2100	[G]	For the Arabian Sea coast.	English
0900, 2100	[G]	Forecast and sometimes balloon observations for Arabian Sea and coastal areas 2,3. FM 12 SYNOPSIS, FM 13 SHIP for sea area I.	English

INDONESIA

Amboina

Region: WMO REGION: V
Position: 03°42'S 128°11'E

METAREA: XI
Area Covered: Seram (West Pacific Sea of Japan)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[B]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	[B]	Storm warnings.	English

INDONESIA

Jakarta

Region: WMO REGION: V
Position: 06°07'S 106°51'E

METAREA: XI
Area Covered: Jawa (West Pacific Sea of Japan)

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[E]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0040, 0440, 0840, 1240, 1640, 2040	[E]	Storm warnings, 24 hour forecast, synopsis and analysis for indonesian waters and China Sea.	English

INDONESIA

Jayapura

Region: WMO REGION: V
Position: 2°31'S 140°43'E

METAREA: XI
Area Covered: Papua (West Pacific Sea of Japan)

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[A]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0000, 0400, 0800, 1200, 1600, 2000	[A]	Storm warnings.	English

INDONESIA

Ujungpandang (Makassar)

Region: WMO REGION: V
Position: 05°07'S 119°26'E

METAREA: XI
Area Covered: Sulawesi

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[D]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0030, 0430, 0830, 1230, 1630, 2030	[D]	Storm warnings.	English

IRAN, ISLAMIC REPUBLIC OF

Bandar Abbas(MRCC)

Region: WMO REGION: II
Position: 27°08'N 57°04'E

24-hour watch

METAREA: IX

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[F]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0050, 0450, 0850, 1250, 1650, 2050	[F]	Gale warnings. For the Strait of Hormuz and the Persian Gulf.	English
0450, 1250	[F]	For the Strait of Hormuz and the Persian Gulf.	English, Farsi

IRAN, ISLAMIC REPUBLIC OF

Bushehr (MRCC)

Region: WMO REGION: II
Position: 28°58'N 50°50'E

METAREA: IX

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[A]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0000, 0400, 0800, 1200, 1600, 2000	[A]	For the Northwest of Persian Gulf.	English, Farsi
0800, 1600	[A]	For the Northwest of Persian Gulf.	English, Farsi

IRELAND**Malin Head (MRSC)****Region:** WMO REGION: VI**Position:** 55°22'N 07°21'W**METAREA:** I**Area Covered:** Irish coastal waters

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[Q]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0240, 0640, 1040, 1440, 1840	[Q]	For North Channel, SW coast of Scotland, N, NW and W coasts of Ireland and approaches.	English
0240, 0640, 1040, 1440, 1840, 2240	[Q]	Gale warnings for the Irish coastal waters up to 30 n miles offshore and Areas Irish Sea, Shannon, Rockall, Malin and Bailey.	English
0640, 1840	[Q]	Gale warnings and forecast for areas Shannon, Rockall, Malin and Bailey.	English
1040, 2240	[Q]	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Areas Irish sea, Atlantic-East Northern and East Central sections.	English

IRELAND**Valentia (MRSC)****Region:** WMO REGION: VI**Position:** 51°56'N 10°21'W**METAREA:** I**Area Covered:** Irish coastal waters

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[W]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0340, 0740, 1140, 1540, 1940, 2340	[W]	Gale warnings for the Irish coastal waters up to 30 n miles offshore and Areas Irish Sea.	English
0340, 1140, 1540, 2340	[W]	For S, SW and W coasts of Ireland and approaches.	English
0740, 1940	[W]	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Areas Irish sea, Sole, Fastnet and Shannon.	English
1140, 2340	[W]	Forecast for Area Atlantic-East Central Section.	English

ISRAEL

Hefa (Haifa)

Region: WMO REGION: VI
Position: 32°49'N 35°00'E

24-hour watch

METAREA: III

Area Covered: Delta, Crusade and South East Kritiko

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[P]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0020, 0420, 0820, 1220, 1620, 2020	[P]	Gale warnings, synopsis, 12 hour forecast and outlook for a further 12 hours for Areas Delta, Taurus and Crusade.	English

ITALY**La Maddalena****Region:** WMO REGION: VI**Position:** 41°13'N 09°24'E**METAREA:** III**Area Covered:** See map

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[R]		518 kHz	
	MSI	[I]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0250 1050 1450 2250	[R]	Gale and Storm Warnings.	English
0650 1850	[R]	Weather Reports.	English
0120 0520 1320	[I]	Gale and Storm Warnings.	Italian
0920 2120	[I]	Weather Reports.	Italian

ITALY**Mondolfo****Region:** WMO REGION: VI**Position:** 43°45'N 13°09'E**METAREA:** III**Area Covered:** See map

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[U]		518 kHz	
	MSI	[E]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0320 1120 1520 2320	[U]	Gale and Storm Warnings.	English
0720 1920	[U]	Weather Reports.	English
0040 0440 1240 1640	[E]	Gale and Storm Warnings.	Italian
0340 1140 1540 2340	[E]	Weather Reports.	Italian

ITALY**Sellia Marina****Region:** WMO REGION: VI**Position:** 38°52'N 16°43'E**METAREA:** III**Area Covered:** See map

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[V]		518 kHz	
	MSI	[W]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0330 1130 1530 1720	[V]	Gale and Storm Warnings.	English
0730 1930	[V]	Weather Reports.	English
0340 1140 1540 2340	[W]	Gale and Storm Warnings.	Italian
0740 1850	[W]	Weather Reports.	Italian

JAPAN**Kushiro****Region:** WMO REGION: II**Position:** 42°57'N 144°36'E**METAREA:** XI**Area Covered:** West Pacific/Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[K]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0140, 0540, 0940, 1340, 1740, 2140	[K]	Storm warnings, gale warnings, near gale warnings, fog (visibility) warnings, synopsis, 12 and 24 hour forecast (only for typhoon) for Areas 2, 4, 5, 7 -12. Tsunami warnings and advice from the Tsunami Warnings Centres.	English
0940, 1340 (January-April)	[K]	Ice reports for the southern part of Okhotskoye More and E coast of Kokkaido. Drifting ice in Japan sea and North Pacific Ocean.	English

JAPAN**Moji****Region:** WMO REGION: II
Position: 34°01'N 130°56'E**METAREA:** XI**Area Covered:** West Pacific/Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[H]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0110, 0510, 0910, 1310, 1710, 2110	[H]	Storm warnings, gale warnings, near gale warnings, fog (visibility) warnings, synopsis, 12 and 24 hour forecast (only for typhoon) for Areas 13, 16-19, 25, 26, 28-30, 32 and 33. Tsunami warnings and advice from the Tsunami Warnings Centres.	English

JAPAN**Naha****Region:** WMO REGION: II
Position: 26°05'N 127°40'E**METAREA:** XI**Area Covered:** West Pacific/Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[G]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0100, 0500, 0900, 1300, 1700, 2100	[G]	Storm warnings, gale warnings, near gale warnings, fog (visibility) warnings, synopsis, 12 and 24 hour forecast (only for typhoon) for Areas 26, 27 and 30-37. Tsunami warnings and advice from Tsunami Warnings Centres.	English

JAPAN**Otaru****Region:** WMO REGION: II**Position:** 43°19'N 140°27'E**METAREA:** XI**Area Covered:** West Pacific/Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[J]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0130, 0530, 0930, 1330, 1730, 2130	[J]	Storm warnings, gale warnings, near gale warnings, fog (visibility) warnings, synopsis, 12 and 24 hour forecast (only for typhoon) for Areas 1, 3, 4, 6, 7 and 13-16. Tsunami warnings and advice from the Tsunami Warnings Centres.	English
0930, 1330 (January-April)	[J]	Ice reports - drifting ice in Japan Sea and North Pacific ocean.	English

JAPAN**Yokohama (JCG MRCC)****Region:** WMO REGION: II**Position:** 35°14'N 139°55'E**METAREA:** XI**Area Covered:** West Pacific/Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[I]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0120, 0520, 0920, 1320, 1720, 2120	[I]	Storm warnings, gale warnings, near gale warnings, fog (visibility) warnings, synopsis, 12 and 24 hour forecast (only for typhoon) for Areas 11, 12, 20-24, 26 and 27. Tsunami warnings and advice from the Tsunami Warnings Centres.	English

MADAGASCAR

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Region: WMO REGION: I
Position:

METAREA: VII
Area Covered:

NOTE: NAVTEX services for Madagascar are available through the NAVAREA VII coordinator.

MALAYSIA

Miri (Sarawak)

Region: WMO REGION: V
Position: 04°26'N 114°01'E

METAREA: XI

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[T]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0310, 0710, 1110, 1510, 1910, 2310	[T]		English
0310, 1510	[T]		English

MALAYSIA

Penang

Region: WMO REGION: V
Position: 05°25'N 100°24'E

METAREA: XI

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[U]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0320, 0720, 1120, 1520, 1920, 2320	[U]		English
0320, 1520	[U]		English

MALAYSIA

Sandakan (Sabah)

Region: WMO REGION: V
Position: 05°54'N 118°00'E

METAREA: XI

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[S]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0300, 0700, 1100, 1500, 1900, 2300	[S]		English
0300, 1500	[S]		English

MALTA**Malta Radio****Region:** WMO REGION: VI**Position:** 35°49'N 14°32'E**METAREA:** III**Area Covered:** Malta and 50 nautical mile radius

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[O]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0220, 0620, 1020, 1420, 1820, 2220	[O]	Local warnings for central Mediterranean up to 10 days old are broadcast Mon-Sat. All warnings still in force are broadcast on Sun.	English
0620, 1820	[O]	Gale warnings, synopsis, 12 hour forecast for coastal waters of Malta up to 50 n miles offshore.	English

MAURITIUS**Mauritius****Region:** WMO REGION: I**Position:** 20°10'S 57°28'E**METAREA:** VIII(S)**Area Covered:** Indian Ocean (see map).

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[C]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0020, 0420, 0820, 1220, 1620, 2020	[C]	Warnings, synopsis and 24 hour forecast for Areas 8A1 to 8A7.	English

MOZAMBIQUE

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Region: WMO REGION: I
Position:

METAREA: VII
Area Covered:

NOTE: NAVTEX services for Mozambique are available through the NAVAREA VII coordinator.

NAMIBIA**Walvis Bay****Region:** WMO REGION: I**Position:** 23°03'S 14°38'E

24-hour watch

METAREA: VII**Area Covered:** Coastal waters 50 miles (approximately 100 km) seawards between Cunene River and Orange River, and the area Trades

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[B]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	[B]	Coastal warnings for the coastal waters and economic zone of Namibia.	English
1210	[B]	Coastal weather reports from meteorological observation stations Mowe Bay, Walvis Bay and Diaz Point.	English
1210, 1610	[B]	Gale warnings, forecast for Areas 1, 2 and 9.	English

NOTE: Currently provided by South Africa

NETHERLANDS**Den Helder****Region:** WMO REGION: VI**Position:** 52°27'N 04°35'E**METAREA:** I**Area Covered:** Thames, Humber, German Bight, Dogge

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[P]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0230, 0630, 1030, 1430, 1830, 2230	[P]	Gale warnings for Aras Dover, Thames, Humber, German Bight and Dogger.	English
0230,1430	[P]	Forecasts for Areas: Thames, Humber, German Bight and Dogger.	English

NORWAY**Bodø****Region:** WMO REGION: VI**Position:** 67°16'N 14°23'E

24-hour watch

METAREA: XIX**Area Covered:** North Atlantic to Barents Sea - Norwegian Sea Areas

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[B]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	[B]	Routine warnings for Norwegian coastal areas and adjacent seas.	English
0010, 1210	[B]	Weather forecast for coastal waters off northern Norway (65°N-70°N, west to 5°W) Norwegian and Arctic Sea (north of 70°N from 20°E to 5°W).	English

NORWAY

Jeloya

Region: WMO REGION: VI

Position: 59°26'N 10°36'E

METAREA: I

Area Covered: Norwegian coastal waters

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[M]		518 kHz	

NORWAY**Ørlandet****Region:** WMO REGION: VI**Position:** 63°40'N 09°33'E**METAREA:** I**Area Covered:** Norwegian Sea Areas

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[N]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0210, 0610, 1010, 1410, 1810, 2210	[N]	Routine warnings for Norwegian coastal areas and adjacent seas.	English
0210, 1410	[N]	Weather forecast for coastal waters off Norway (62°N-65°N, west to 5°W).	English

NORWAY**Rogaland****Region:** WMO REGION: VI**Position:** 58°45'N 05°38'E

24-hour watch

METAREA: I**Area Covered:** Norwegian coastal waters and adjacent areas within the economic zone (200 n.m.) - N.Sea/Gulf of Bothania/Finland

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[L]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0150, 0550, 0950, 1350, 1750, 2150	[L]	Routine warnings for Norwegian coastal areas and adjacent seas.	English
0150, 1350	[L]	Weather forecast for North Sea, Skagerrak and coastal waters off southern and western Norway (north to 62°N, west to 0°W).	English

NORWAY**Svalbard****Region:** WMO REGION: VI**Position:** 78°03'N 13°37'E**METAREA:** XIX**Area Covered:** Norwegian Sea Areas (Svalbard)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[A]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0000, 0400, 0800, 1200, 1600, 2000	[A]		
0000, 1200	[A]	Weather forecast for coastal waters off northern Norway (65°N to 70°N, west to 5°W), Norwegian and Arctic Sea (north of 70°N) and Barents Sea.	English
0800	[A]	Ice reports.	English
On request	[A]	Weather warnings. Ice reports.	English

NORWAY**Vardø****Region:** WMO REGION: VI**Position:** 70°22'N 31°06'E

24-hour watch

METAREA: XIX**Area Covered:** N.Sea/Gulf of Bothania/Finland - Norwegian Sea Areas

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[V]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0330, 0730, 1130, 1530, 1930, 2330	[V]	Routine warnings for Norwegian coastal areas and adjacent seas.	English
1130, 2330	[V]	Weather forecast for coastal waters off northernNorway (east of 20°E).	English
1530 (Tues only)	[V]	Ice reports.	English

OMAN**Masqat (Muscat) (Wattayah Radio Station)****Region:** WMO REGION: II**Position:** 23°36'N 58°30'E**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[M]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0200, 0600, 1000, 1400, 1800, 2200	[M]	Forecast, synopsis, wind and sea condition for all areas. For Persian Gulf and Gulf of Oman.	English

PAKISTAN**Karachi****Region:** WMO REGION: II**Position:** 24°51'N 67°03'E**METAREA:** IX**Area Covered:** METAREA IX

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[P]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0230, 0630, 1030, 1430, 1830, 2230	[P]	Coastal warnings.	English
0800	[P]	Forecast, synopsis for Arabian Sea North of 20°N, Gulf of Oman, Persian Gulf, Gulf of Aden and Central Arabian Sea.	English

PERU**Callao****Region:** WMO REGION: III**Position:** 12°03'S 77°09'W

24-hour watch

METAREA: XVI**Area Covered:** South East Pacific - Pacific ocean east of 120°W from the Equator to 17°S.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[U]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0320, 1120, 1520, 2320	[U]		English, Spanish
0720, 1920	[U]	Forecast and sea state for Areas I-IV.	English, Spanish

PERU**Mollendo (Matarani)****Region:** WMO REGION: III**Position:** 17°01'S 72°01'W**METAREA:** XVI**Area Covered:** South East Pacific - Pacific ocean east of 120°W from the Equator to 17°S.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[W]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0340, 0740, 1540, 1940	[W]		English, Spanish
1140, 2340	[W]	Forecast and sea state for Areas III.	English, Spanish

PERU**Paita****Region:** WMO REGION: III**Position:** 5°05'S 81°07'W**METAREA:** XVI**Area Covered:** South East Pacific - Pacific ocean east of 120°W from the Equator to 17°S.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[S]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0300, 1500	[S]	Forecast and sea state for Areas I.	English, Spanish
0700, 1100, 1900, 2300	[S]	Forecast and sea state for Areas I.	English, Spanish

PORTUGAL**Monsanto (Alges)****Region:** WMO REGION: VI**Position:** 38°44'N 09°11'W**METAREA:** II**Area Covered:** Coastal waters within 200 nautical miles offshore coast of Portugal Continental

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[R]		518 kHz	
	MSI	[G]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0250, 0650, 1050, 1450, 1850, 2250	[R]		English
0100, 0500, 0900, 1300, 1700, 2100	[G]		Portuguese

PORTUGAL (AZORES)**Horta****Region:** WMO REGION: VI**Position:** 38°32'N 28°38'W**METAREA:** II**Area Covered:** North Atlantic to Barents Sea
Coastal waters within 200 nautical miles offshore coast of Açores

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[F]		518 kHz	
	MSI	[J]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0050, 0450, 0850, 1250, 1650, 2050	[F]		
0130, 0530, 0930, 1330, 1730, 2130	[J]		Portuguese

PUERTO RICO

San Juan (USCG)

Region: WMO REGION: IV

Position: 18°28'N 67°04'W

24-hour watch

METAREA: IV

Area Covered: Atlantic area

Mode Of Transmission	ID SLOT International National	Frequency	Area
MSI	[R]	518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0250, 0650, 1050, 1450, 1850, 2250	[R]	Storm/Gale warnings, synopsis and forecasts for Caribbean, Southwest and Tropical North Atlantic. Local warnings.	English

REPUBLIC OF KOREA**Chukpyon (Jukbyeon)****Region:** WMO REGION: II**Position:** 37°03'N 129°26'E**METAREA:** XI**Area Covered:** Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[V]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0330, 0730, 1130, 1530, 1930, 2330	[V]		English

REPUBLIC OF KOREA**Pyonsan (Byeonsan)****Region:** WMO REGION: II**Position:** 35°36'N 126°29'E**METAREA:** XI**Area Covered:** Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[W]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0340, 0740, 1140, 1540, 1940, 2340	[W]		

ROMANIA**Constanta (Constantza) Radio****Region:** WMO REGION: VI**Position:** 44°06'N 28°37'E

24-hour watch

METAREA: III**Area Covered:** Western part of the Black Sea:
45°13'N 29°40'E; 49°09'N 29°58'E; 44°30'N 30°16'E; 44°15'N 30°24'E; 43°41'N 30°32'E; 43°44'N 29°02'E; 43°40'N 29°00'E;
43°45'N 28°36'E

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[L]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0930, 2130	[L]	Forecast valid for 24 hours for the area affected.	English

RUSSIAN FEDERATION (EUROPE)**Arkhangel'sk****Region:** WMO REGION: VI**Position:** 64°33'N 40°32'E**METAREA:** XX**Area Covered:** North Atlantic to Barents Sea - Arctic coast

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[L]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0400, 1600	[L]	Weather warnings and forecasts. No ice information	English

Note:
 Provided by the 3 marine departments of Roshydromet (Murmansk, Northern and Chukchi departments).

During the whole year for the S. coastal and SE areas of the Barents Sea (6 areas), White Sea (7 areas), during 15 July-30 September for the S areas of the Eastern Siberian (3 areas) and chukchi (4 areas) Seas.

RUSSIAN FEDERATION (EUROPE)**Astrakhan (Caspian Sea)****Region:** WMO REGION: VI**Position:** 45°47'N 47°33'E

24-hour watch

METAREA: III**Area Covered:** Caspian Sea Coast

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[W]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0340, 0740, 1140, 1540, 1940, 2340	[W]	Weather information fro north and central Caspian Sea to 42°N. Coastal warnings for north and central Caspian Sea to 42°N.	English

RUSSIAN FEDERATION (EUROPE)**Murmansk****Region:** WMO REGION: VI**Position:** 68°46'N 32°58'E**METAREA:** XX**Area Covered:** North Atlantic to Barents Sea - Arctic coast

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[K]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0400, 1600	[K]	Weather warnings and forecasts. No ice information	English

Note:

Provided by the 3 marine departments of Roshydromet (Murmansk, Northern and Chukchi departments).

During the whole year for the S. coastal and SE areas of the Barents Sea (6 areas), White Sea (7 areas), during 15 July-30 September for the S areas of the Eastern Siberian (3 areas) and chukchi (4 areas) Seas.

RUSSIAN FEDERATION (EUROPE)**Novorossiysk** **Region:** WMO REGION: VI**Position:** 44°36'N 37°58'E

24-hour watch

METAREA: III**Area Covered:** Mediterranean Sea/Black Sea coast

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[A]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0300, 0700, 1100, 1500, 1900, 2300	[A]	Coastal warnings for Russian waters in Black Sea, Sea of Azov and Kerchenskiy Proliv.	English
0700, 1500	[A]	Storm warnings and weather forecast for areas Anapa-Tuance.	English

RUSSIAN FEDERATION (EUROPE)**Tiksi (Operational 01 July - 30 October)****Region:** WMO REGION: VI**Position:** 71°38'N 128°50'E**METAREA:** XX**Area Covered:** Arctic coast

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[Q]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0400, 1600	[Q]	Weather warnings and forecasts. No ice information	English

Note:

Provided by the 3 marine departments of Roshydromet (Murmansk, Northern and Chukchi departments).

During the whole year for the S. coastal and SE areas of the Barents Sea (6 areas), White Sea (7 areas), during 15 July-30 September for the S areas of the Eastern Siberian (3 areas) and chukchi (4 areas) Seas.

RUSSIAN FEDERATION (IN ASIA)**Beringovskiy****Region:** WMO REGION: II**Position:** Planning**METAREA:** XIII**Area Covered:** West Pacific/Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[E]		518 kHz	

Note:

Russian Federal Service for Hydrometeorology and Environmental monitoring (Roshydromet) is the Preparation Service for METAREA XIII in the NW Pacific Ocean.

Russian Federal Department of Navigation and Oceanography, Ministry of Defense, is the issuing Service for METAREA XIII.

RUSSIAN FEDERATION (IN ASIA)**Kholmsk****Region:** WMO REGION: II**Position:** 47°02'N 142°03'E**METAREA:** XIII**Area Covered:** West Pacific coast / Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[B]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	[B]	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.	English

Note:

Russian Federal Service for Hydrometeorology and Environmental monitoring (Roshydromet) is the Preparation Service for METAREA XIII in the NW Pacific Ocean.

Russian Federal Department of Navigation and Oceanography, Ministry of Defense, is the issuing Service for METAREA XIII.

RUSSIAN FEDERATION (IN ASIA)**Magadan****Region:** WMO REGION: II**Position:** 59°41'N 150°09'E**METAREA:** XIII**Area Covered:** West Pacific/Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[D]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0030, 0430, 0830, 1230, 1630, 2030	[D]	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.	English

Note:

Russian Federal Service for Hydrometeorology and Environmental monitoring (Roshydromet) is the Preparation Service for METAREA XIII in the NW Pacific Ocean.

Russian Federal Department of Navigation and Oceanography, Ministry of Defense, is the issuing Service for METAREA XIII.

RUSSIAN FEDERATION (IN ASIA)**Okhotsk****Region:** WMO REGION: II**Position:** 59°22'N 143°12'E**METAREA:** XIII**Area Covered:** Pacific coast

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[G]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0100, 0500, 0900, 1300, 1700, 2100	[G]	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.	English

Note:

Russian Federal Service for Hydrometeorology and Environmental monitoring (Roshydromet) is the Preparation Service for METAREA XIII in the NW Pacific Ocean.

Russian Federal Department of Navigation and Oceanography, Ministry of Defense, is the issuing Service for METAREA XIII.

RUSSIAN FEDERATION (IN ASIA)

Petropavlovsk **Region:** WMO REGION: II
Position: 53°00'N 158°40'E

24-hour watch

METAREA: XIII**Area Covered:** West Pacific/Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[C]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0020, 0420, 0820, 1220, 1620, 2020	[C]	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.	English

Note:

Russian Federal Service for Hydrometeorology and Environmental monitoring (Roshydromet) is the Preparation Service for METAREA XIII in the NW Pacific Ocean.
 Russian Federal Department of Navigation and Oceanography, Ministry of Defense, is the issuing Service for METAREA XIII.

RUSSIAN FEDERATION (IN ASIA)**Vladivostok****Region:** WMO REGION: II
Position: 42°23'N 131°54'E**METAREA:** XIII
Area Covered: West Pacific/Sea of Japan

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[A]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0000, 0400, 0800, 1200, 1600, 2000	[A]	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.	English

Note:
 Russian Federal Service for Hydrometeorology and Environmental monitoring (Roshydromet) is the Preparation Service for METAREA XIII in the NW Pacific Ocean.
 Russian Federal Department of Navigation and Oceanography, Ministry of Defense, is the issuing Service for METAREA XIII.

SAUDI ARABIA

Dammam

Region: WMO REGION: II
Position: 26°26'N 50°06'E

METAREA: IX
Area Covered: Persian Gulf

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[G]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0100, 0500, 0900, 1300, 1700, 2100	[G]	Gale warnings, synopsis, 24 hour forecast for all areas. Local warnings for Ra's Tannurah and Ra's Al Ju'aymah. For the Saudi Arabian waters of the Persian Gulf and the Red Sea. Loran-C warnings for Saudi Arabian North Chain.	English

SAUDI ARABIA**Jeddah****Region:** WMO REGION: II**Position:** 21°23'N 39°11'E**METAREA:** IX**Area Covered:** Red Sea Coast

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[H]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0110, 0510, 0910, 1310, 1710, 2110	[H]	Gale warnings, synopsis, 24 hour forecast for areas RSN, RSS, GAA and approaches.	English

SENEGAL

Dakar

Region: WMO REGION: I
Position: 14°46'N 17°21'E

METAREA: II

Area Covered:

Mode Of Transmission	ID SLOT International National	Frequency	Area
MSI	[C]	518 kHz	

SINGAPORE**Singapore (Changi)****Region:** WMO REGION: V**Position:** 01°21'N 103°59'E

24-hour watch

METAREA: XI**Area Covered:** East/South China Sea

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[C]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0220, 0420, 0820, 1220, 1620, 2020	[C]	For the South China Sea, Malacca Straits and Bay of Bengal.	English
0220, 1220	[C]	Storm warnings, situation for the South China Sea, Malacca Straits, Andaman Sea. 12 hour forecast for Phuket, Melaka, Tioman, Bunguran, Condore, Reef.	English

SOUTH AFRICA

Cape Town

Region: WMO REGION: I
Position: 33°41'S 18°43'E

24-hour watch

METAREA: VII

Area Covered: South Atlantic - The whole ocean area south of the Equator and of the African coast between 20°W and 20°E. The Mozambique Channel south of 15°S and the sea area from 25°S to 30°S between the African coast and 45°E. The whole ocean area south of 30°S and of the African coast between 20°E and 70°E.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[C]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0020, 0420, 0820, 2020	[C]	Local and coastal warnings for the area from the Orange River to Mosselbay are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.	
1220, 1620	[C]	Coastal weather bulletins: Gale warnings, forecast for areas 1-5, 11 and 12. Local and coastal warnings for the area from the Orange River to Mosselbay are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.	English

SOUTH AFRICA

Durban **Region:** WMO REGION: I
Position: 29°48'S 30°49'E

24-hour watch

METAREA: VII

Area Covered: Indian Ocean/Arab.Gulf/Red Sea
Coastal waters 50 miles (approximately 100 km) seawards between Agulhas and Maputo, the Mozambique Channel south of 15°S latitude and the area Durban East (see map)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[O]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0220, 0620, 1420, 2220	[O]	Local and coastal warnings for the area from the East London to Maputo are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.	
1020, 1820	[O]	Coastal weather bulletins: Gale warnings, forecast for areas 4, 5, 12, 14, 15. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.	

SOUTH AFRICA**Port Elizabeth****Region:** WMO REGION: I**Position:** 34°02'S 25°33'E

24-hour watch

METAREA: VII**Area Covered:** The whole ocean area south of the Equator and of the African coast between 20°W and 20°E. The Mozambique Channel south of 15°S and the sea area from 25°S to 30°S between the African coast and 45°E. The whole ocean area south of 30°S and of the African coast between 20°E and 70°E.

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[I]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0120, 0520, 1320, 2120	[I]	Local and coastal warnings for the area from the Cape Agulhas to Port Edward are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.	
0920, 1720	[I]	Coastal weather bulletins: Gale warnings and forecasts. Local and coastal warnings for the area from the Cape Agulhas to Port Edward are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.	

SPAIN**Coruña (MRSC)****Region:** WMO REGION: VI**Position:** 43°22'1,6"N
008°27'7,7"W**METAREA:** II**Area Covered:** North Atlantic. Within 300 n miles of coast.

Mode Of Transmission	ID SLOT International National	Frequency	Area
MSI	[D]	518 kHz	
MSI	[W]	490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0030, 0430, 0830, 1230, 1630, 2030	[D]	Gale warnings. zones: Porto, Charcot, Finisterre, Cantábrico, Pазzen, Rochebonne, Yeu, Iroise, Gran Sol.	English
0830, 2030	[D]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Porto, Charcot, Finisterre, Cantábrico, Pазzen, Rochebonne, Yeu, Iroise, Gran Sol.	English
0340, 0740, 1140, 1540, 1940, 2340	[W]	Gale warnings. zones: Porto, Charcot, Finisterre, Cantábrico, Pазzen, Rochebonne, Yeu, Iroise, Gran Sol.	Spanish
1140, 1940	[W]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Porto, Charcot, Finisterre, Cantábrico, Pазzen, Rochebonne, Yeu, Iroise, Gran Sol.	Spanish

SPAIN**Tarifa (MRCC)**

Region: WMO REGION: VI
Position: 36°02'32"N
05°33'23"W

METAREA: II, III

Area Covered: North Atlantic and and West Mediterranean Sea. Within 300 n miles of coast.

Mode Of Transmission	ID SLOT	Frequency	Area
	International National		
MSI	[G]	518 kHz	
MSI	[T]	490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0100, 0500, 1300, 1700	[G]	Gale warnings. zones: San Vicente, Cádiz, Estrecho Alborán, Palos, Argelia, Agadir, Casablanca.	English
0900, 2100	[G]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: San Vicente, Cádiz, Estrecho Alborán, Palos, Argelia, Agadir, Casablanca.	English
0310, 0710, 1110, 1510, 1910, 2310	[T]	Gale warnings. zones: San Vicente, Cádiz, Estrecho Alborán, Palos, Argelia, Agadir, Casablanca.	Spanish
0710, 1910	[T]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: San Vicente, Cádiz, Estrecho Alborán, Palos, Argelia, Agadir, Casablanca.	Spanish

SPAIN**Valencia (Cabo de la Nao)****Region:** WMO REGION: VI
Position: 38°43'04"N
000°10'33"E**METAREA:** III**Area Covered:** West Mediterranean Sea. Within 220 n miles of coast.

Mode Of Transmission	ID SLOT International National	Frequency	Area
MSI	[X]	518 kHz	
MSI	[E]	490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0350, 0750, 1150, 1550, 1950, 2350	[X]	Gale warnings. zones: Alborán, Palos, Argelia, Cabrera, Baleares, Menorca, León, Cerdeña.	English
0750, 1950	[X]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Alborán, Palos, Argelia, Cabrera, Baleares, Menorca, León, Cerdeña.	English
0200, 0600, 1000, 1400, 1800, 2200	[M]	Gale warnings. zones: Alborán, Palos, Argelia, Cabrera, Baleares, Menorca, Leon, Cerdeña.	Spanish
1000, 1800	[M]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours , zones: Alborán, Palos, Argelia, Cabrera, Baleares, Menorca, León, Cerdeña.	Spanish

SPAIN (CANARY ISLANDS)**Las Palmas****Region:** WMO REGION: I
Position: 28°25'58"N
016°20'10"W**METAREA:** II**Area Covered:** North Atlantic. Within 450 n miles of coast

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[I]		518 kHz	
MSI		[A]	490 kHz (1)	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0120, 0520, 0920, 1320, 1720, 2120	[I]	Gale warnings. zones: Madeira, Casablanca, Agadir, Canarias, Tarfaya, Cap Blanc.	English
0920, 1720	[I]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Madeira, Casablanca, Agadir, Canarias, Tarfaya, Cap Blanc.	English
1320	[I]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for Canary islands coastal waters.	English
0000, 0400, 0800, 1200, 1600, 2000	[A]	Gale warnings. zones: Madeira, Casablanca, Agadir, Canarias, Tarfaya, Cap Blanc.	Spanish
0800, 1600	[A]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Madeira, Casablanca, Agadir, Canarias, Tarfaya, Cap Blanc.	Spanish
1200	[A]	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for Canary Islands coastal waters.	Spanish

SWEDEN**Bjuröklubb****Region:** WMO REGION: VI**Position:** 64°28'N 21°36'E**METAREA:** I**Area Covered:**

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[H]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0110, 0910, 2110	[H]	Weather warnings.	English
0510, 1710	[H]	Weather warnings and weather forecast.	English
1310	[H]	Weather warnings and Ice reports.	English

SWEDEN

Gislovshammer

Region: WMO REGION: VI

Position: 55°29'N 14°19'E

METAREA: I

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[J]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0130, 0930, 2130	[J]	Warnings and weather warnings.	English
0530, 1730(1)	[J]	Weather warnings and weather forecast.	English
1330	[J]	Weather warnings and Ice reports.	English

SWEDEN**Grimeton****Region:** WMO REGION: VI**Position:** 57°06'N 12°23'E**METAREA:** I**Area Covered:**

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[I]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0120, 0920, 2120	[I]	Warnings and weather warnings.	English
0520, 1720(1)	[I]	Warnings, weather warnings and weather forecast.	English
1320	[I]	Warnings, weather warnings and Ice reports.	English

THAILAND**Bangkok (Nonthaburi) Meteorological****Region:** WMO REGION: II**Position:** 13°01'N 100°01'E

24-hour watch

METAREA: XI**Area Covered:** West Pacific Sea of Japan.
Gulf of Thailand, West coast of southern Thailand, Strait of Malacca and South China Sea (see map)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[F]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0050, 0450, 0850, 1250, 1650, 2050	[F]		English
0050, 0850	[F]	Storm warnings for the Area 4°N-20°N, 98°E-115°E. Synopsis for the Areas 0°-30°N, 90°E-120°E. 24 hour forecast for Areas 1-5.	English

TURKEY**Antalya****Region:** WMO REGION: VI**Position:** 36°53'N 30°42'E**METAREA:** III**Area Covered:** Western and Eastern Mediterranean Coasts (30 miles distance)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[F]		518 kHz	Mediterranean Coast
	MSI	[D]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0050, 0450, 0850, 1250, 1650, 2050	[F]	Weather forecast for Area Taurus.	English
0030, 0430, 0830, 1230, 1630, 2030	[D]	Weather forecast for Area Taurus. Navigational warnings: For E. Mediterranean.	Turkish

TURKEY**Istanbul****Region:** WMO REGION: VI**Position:** 41°04'N 28°57'E**METAREA:** III**Area Covered:** Marmara Sea and Western Black Sea coasts (30 miles distance)

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[D]		518 kHz	Marmara Denizi
MSI	[B]		490 kHz	
MSI	[M]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0030, 0430, 0830, 1230, 1630, 2030	[D]	Weather forecast for Areas Marmara and Danube.	English
0010, 0410, 0810, 1210, 1610, 2010	[B]	Weather forecast for Areas Marmara and Danube. Navigational warnings: For SW part of Black Sea.	Turkish
0200, 0600, 1000, 1400, 1800, 2200	[M]	Weather Forecast for Areas 12-27. Navigational warnings: For Black Sea, Marmara Denizi, Aegean, Mediterranean.	Turkish

TURKEY**Izmir****Region:** WMO REGION: VI**Position:** 38°21'N 26°35'E**METAREA:** III**Area Covered:** Aegean Sea and Western Mediterranean Coasts (30 miles distance)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[I]		518 kHz	Aegean Coast
	MSI	[C]		518 kHz	Aegean Coast

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0120, 0520, 0920, 1320, 1720, 2120	[I]	Weather Forecast for Areas Aegean and Jason.	English
0020, 0420, 0820, 1220, 1620, 2020	[C]	Weather Forecast for Areas Aegean and Jason.	Turkish

TURKEY**Samsun****Region:** WMO REGION: VI**Position:** 41°17'N 36°20'E**METAREA:** III**Area Covered:** Black Sea

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[E]		518 kHz	Black Sea Coast
	MSI	[A]		490 kHz	Black Sea Coast

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0040, 0440, 0840, 1240, 1640, 2040	[E]	Weather Forecast for Areas Georgia and Danube.	English
0000, 0400, 0800, 1200, 1600, 2000	[A]	Weather Forecast for Areas Georgia and Danube. Navigational warnings: For SE part of Black Sea.	Turkish

UKRAINE**Kerch****Region:** WMO REGION: VI**Position:** 45°23'N 36°28'E

24-hour watch

METAREA: III**Area Covered:** Sea of Azov

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[B]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0100, 0500, 0900, 1300, 1700, 2100	[B]	For Sea of Azov and Kerchenskiy Proliv.	English
0500, 1300	[B]	24 hour weather and sea state forecast for Sea of Azov and Kerchenskiy Proliv.	English
0900	[B]	Ice reports for Sea of Azov.	English

UKRAINE**Odesa****Region:** WMO REGION: VI**Position:** 46°29'N 30°44'E**METAREA:** III**Area Covered:** Black Sea (including Strait of Bosphorus) and Sea of Azov

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[C]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0230, 0630, 1030, 1430, 1830, 2230	[C]	For NW part of Black Sea.	English
1430	[C]	Ice Reports.	English
1430, 2230	[C]	For Area 1, NW part of Black Sea.	English

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Cullercoats

Region: WMO REGION: VI

Position: 55°04'N 01°28'W

Note: Broadcasts are remotely controlled by Falmouth Coastguard.

METAREA: I

Area Covered: N.Sea/Gulf of Bothania/Finland
 Viking, Forties, Cromarty, Forth, Tyne, Dogger, Humber, Thames, Dover, Wight and Fair Isle
 (Extended outlook includes additionally the sea areas North Utsire, South Utsire, Fisher, and German Bight)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[G]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0100	[G]	Extended outlook daily, signalling expected hazards (gales and/or extensive sea fog) for a further two or three days, for the North Sea and Eastern English Channel.	
0100, 0500, 0900, 1300, 1700, 2100	[G]	Coastal warnings for Areas 1-5.	
0900, 2100	[G]	Shipping forecast: General Synopsis. 24-hour forecasts and 24 hour outlook (hazards) for Viking, Forties, Cromarty, Forth, Tyne, Dogger, Humber, Thames and Fair Isle.	

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Niton **Region:** WMO REGION: VI
Position: 50°35'N 01°15'W

METAREA: I
Area Covered: North Atlantic to Barents Sea
 South of the North Sea and East of the Channel:
 (a) Humber; (b) Tamise; (c) Pas de Calais; (d) Antifer; (e) Casquets; (f) Ouessant

Mode Of Transmission	ID SLOT International National	Frequency	Area
MSI	[E]	518 kHz	N. France

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0040	[E]	Extended outlook daily, signalling expected hazards (gales and/or extensive sea fog) for a further two or three days, for Thames, Dover, Wight, Portland, Plymouth, Biscay, FitzRoy, Sole, Lundy, Fastnet, Irish Sea and Shannon.	
0040, 0440, 0840, 1240, 1640, 2040	[E]	Coastal warnings for areas 6-9.	
0840, 2040	[E]	Shipping Forecast: General Synopsis. 24 hour forecast and 24 hour outlook (hazards) for Thames, Dover, Wight, Portland, Plymouth, Biscay, FitzRoy, Sole, Lundy & Fastnet.	

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**Niton (France)****Region:** WMO REGION: VI**Position:** 50°35'N 01°15'W**METAREA:** I**Area Covered:** North Atlantic to Barents Sea
South of the North Sea and East of the Channel:
(a) Humber; (b) Tamise; (c) Pas de Calais; (d) Antifer; (e) Casquets; (f) Ouessant

Mode Of Transmission	ID SLOT International National	Frequency	Area
MSI	[K]	518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0140, 0540, 0940, 1340, 1740, 2140	[K]	Coastal warnings for Areas 6-7 south of the Channel median.	English

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Portpatrick

Region: WMO REGION: VI

Position: 54°51'N 05°07'W

Note: Broadcasts are remotely controlled by Falmouth Coastguard.

METAREA: I

Area Covered: Scotland (North Atlantic to Barents Sea)
Lundy, Fastnet, Irish Sea, Rockall, Malin, Hebrides, Bailey, Fair Isle. Faeroes, South-east Iceland
(Extended outlook includes additionally sea area Shannon)

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[C]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0200	[C]	Extended outlook daily, signalling expected hazards (gales and/or extensive sea fog) for a further two or three days, for Lundy, Fastnet, Irish Sea, Shannon, Rockall, Malin, Hebrides, Fair Isle, Faeroes and SE Iceland.	English
0220, 0620, 1020, 1420, 1820, 2220	[C]	Coastal warnings for Areas 10-16. Navarea I Warnings area included at 0220 and 1420.	
0620, 1820	[C]	Shipping forecast: gale warnings, general synopsis, 24 hour forecast and 24 hour outlook (hazards) for Lundy, Fastnet, Irish Sea, Rockall, Malin, Hebrides, Bailey, Fair Isle, Faeroes and SE Iceland.	

UNITED STATES OF AMERICA

Astoria (USCG)

Region: WMO REGION: IV

Position: 46°12'N 123°57'W

24-hour watch

METAREA: XII

Area Covered: Pacific area

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[W]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0340, 0740, 1140, 1540, 1940, 2240	[W]	Gale warnings, coastal forecast for all areas. Offshore forecast for Areas 81-85. Notices to Mariners for areas Alameda and Seattle.	English

UNITED STATES OF AMERICA

Boston, Massachusetts (USCG)

Region: WMO REGION: IV

Position: 41°42'N 70°30'W

24-hour watch

METAREA: IV

Area Covered: Atlantic area

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[F]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0050, 0450, 0850, 1250, 1650, 2050	[F]	Gale warnings, synopsis and forecast. For coastal waters. International Ice Patrol Bulletin.	English

UNITED STATES OF AMERICA

Cambria

Region: WMO REGION: IV
Position: 35°31'N 121°03'W

METAREA: XII
Area Covered: Pacific area

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[Q]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0240, 0640, 1040, 1440, 1840, 2240	[Q]	Gale warnings, coastal forecast for all areas. Offshore forecast for Areas 81-85. Notices to Mariners for areas Alameda and Seattle.	English

UNITED STATES OF AMERICA

Charleston (USCG)

Region: WMO REGION: IV

Position: 32°47'N 79°57'W

METAREA: IV

Area Covered: Atlantic area

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[E]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0040, 0440, 0840, 1240, 1640, 2040	[E]		

UNITED STATES OF AMERICA

Miami (USCG)

Region: WMO REGION: IV

Position: 25°54'N 80°16'W

24-hour watch

METAREA: IV

Area Covered: Atlantic area

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[A]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0000, 0400, 0800, 1200, 1600, 2000	[A]	Gale warnings, synopsis and forecast. Local warnings.	English

UNITED STATES OF AMERICA

New Orleans, Louisiana (USCG)

Region: WMO REGION: IV

Position: 29°53'N 89°55'W

METAREA: IV

Area Covered: Atlantic area

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[G]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0100, 0500, 0900, 1300, 17000, 2100	[G]	Gale warnings and local weather.	English

UNITED STATES OF AMERICA

Point Reyes, San Francisco (CAMSPAC)

Region: WMO REGION: IV
Position: 37°56'N 122°44'W

METAREA: XII
Area Covered: Pacific area

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[C]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0020, 0420, 0820, 1220, 1620, 2020	[C]	Gale warnings, coastal forecast for all areas. Synopsis and forecast for Areas 83-85. Notices to Mariners for areas Alameda and Seattle. Electronic Navigation Advisories.	English

UNITED STATES OF AMERICA

Portsmouth (CAMSLANT)

Region: WMO REGION: IV

Position: 36°45'N 76°01'W

24-hour watch

METAREA: IV

Area Covered: Atlantic area

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[N]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0210, 0610, 1010, 1410, 1810, 2210	[N]	Gale warnings, synopsis and forecast.	English

UNITED STATES OF AMERICA (ALASKA)

Kodiak (East)

Region: WMO REGION: IV
Position: 57°46'N 152°34'W

METAREA: XII, XVII

Area Covered: Pacific area

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[J]		518 kHz	Area east of Kodiak

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0130, 0530, 0930, 1330, 1730, 2130	[J]	Gale warnings, synopsis and forecast for Areas east of Kodiak.	English

UNITED STATES OF AMERICA (ALASKA)

Kodiak (West)

Region: WMO REGION: IV
Position: 57°46'N 152°34'W

METAREA: XII, XVII

Area Covered: Pacific area

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[X]		518 kHz	Area west of Kodiak

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0350, 0750, 1150, 1550, 1950, 2250	[X]	Gale warnings, synopsis and forecast for Areas west of Kodiak.	English

UNITED STATES OF AMERICA (HAWAII)

Honolulu (USCG)

Region: WMO REGION: V
Position: 21°26'N 158°09'W

24-hour watch

METAREA: XII

Area Covered: Pacific area

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[O]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0220, 0620, 1020, 1420, 1820, 2220	[O]	Gale warnings, forecast for waters up to 100 n miles from the Hawaiian Islands and forecast for waters up to 1000 n miles from Honolulu (up to 30°N).	English

URUGUAY**La Paloma****Region:** WMO REGION: III**Position:** 34°40'S 54°09'W**METAREA:** V**Area Covered:** -

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[F]		518 kHz	
	MSI	[A]		490 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0050, 0450, 0850, 1250, 1650, 2050	[F]	Near gale warnings and local coastal forecast for areas B and C.	English
0000, 0400, 0800, 1200, 1600, 2000	[A]	Near gale warnings and local coastal forecast for areas B and C.	Spanish

VIET NAM**Da Nang****Region:** WMO REGION: II**Position:** 16°04'N 108°12E

Watch kept for less than 30 minutes (station with limited hours of operation)

METAREA: XI**Area Covered:**

	Mode Of Transmission	ID SLOT		Frequency	Area
		International	National		
	MSI	[K]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0140, 1340	[K]		English
0540, 0940, 1740, 2140	[K]		English

VIET NAM

Ho Chi Minh Ville

Region: WMO REGION: II
Position: 10°23'N 107°09'E

METAREA: XI

Area Covered:

Mode Of Transmission	ID SLOT		Frequency	Area
	International	National		
MSI	[X]		518 kHz	

Broadcast Times	ID SLOT	Contents of Broadcast	Language/Code Form
0350, 1150	[X]		English
0750, 1550, 1950, 2350	[X]		English

PART C

**HF NBDP
Narrow Band Direct Printing**

ARGENTINA**Marine Rescue Co-ordination Centre: Buenos Aires (PREFECTURA NAVAL)****Region:** III**Position:** 34°27'.00S 058°35'.00W**METAREA:** VI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4210		
Radio-Telex	B	8416.5		
Radio-Telex	C	12579		
Radio-Telex	D	16806.5		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030, 1530, 2100	A-D	Navigational warnings.	Spanish, English
0300	A-C	Weather bulletins and wave prognosis.	Spanish, English
1000	A-C	Local and coastal navigational warnings.	Spanish, English
1400	A-D	Weather bulletins and wave prognosis.	Spanish, English
1900	A-D	Local and coastal navigational warnings including numbers of warnings in force.	Spanish, English

ARGENTINA**Maritime Radio Station: Centro Meteorológico Base Marambio****Region:** VII**Position:****METAREA:** VI**Area Covered:** Antarctic area and surroundings

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 807 kHz		
Radio-Telex	B	10 870 kHz		
Radio-Telex	C	16 209.5 kHz		
Radio-Telex	D	20 732 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0020	A, B	Maritime forecast for the Antarctic S of 60°S, 20° to 90°W.	Spanish, English
0020, 0320, 0620	A, B	Gale warnings and synopsis.	
0920, 1220	B, C	Gale warnings and synopsis.	
1220	B, C	Maritime forecast for the Antarctic S of 60°S, 20° to 90°W.	Spanish, English
1520	B, D	Gale warnings and synopsis.	
1820, 2120	B, C	Gale warnings and synopsis.	
2120	B, C	Navigational warnings: Ice reports (Tuesdays & Thursdays).	

ARGENTINA**Marine Rescue Co-ordination Centre: Comodoro Rivadavia (PREFECTURA NAVAL)****Region:** III**Position:** 45°51'.00S 067°25'.00W**METAREA:** VI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 210 kHz		F1B - 1 W
Radio-Telex	B	8 416.5 kHz		F1B - 1 W
Radio-Telex	C	12 579 kHz		F1B - 1 W
Radio-Telex	D	19 685.5 kHz		F1B - 1 W

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530	A	Navigational warnings.	Spanish
1830	B-D	Navigational warnings.	Spanish

BRAZIL**Marine Rescue Co-ordination Centre: Rio de Janeiro Naval****Region:** III**Position:** 22°56'.00S 043°20'.00W**METAREA:** V**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio data (J2D)	A	4,266,0 (on reques		F1B
Radio data (J2D)	B	6,448.0		F1B
Radio data (J2D)	C	8,580.0		F1B
Radio data (J2D)	D	12,709.9		F1B
Radio data (J2D)	E	16,974.0		F1B

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0400, 2130	A-E	Navigational warnings: NAVAREA V warnings. Coastal warnings. Local warnings (Portuguese only).	Portuguese, English
0600, 1845	A-E	Weather bulletins.	Portuguese, English

BULGARIA**Maritime Radio Station: Varna Radio****Region:** VI**Position:** 43°04'N 27°46'E

H24

METAREA: III**Area Covered:** Mediterranean Sea/Black Sea - Coastal waters of Bulgaria and region of Black Sea

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 218.5 kHz		
Radio-Telex	B	12 587 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0630, 1830	A,B	Storm warnings, weather summary, 12 hour forecast for coastal waters of Bulgaria and central western region of Black Sea, Area 2. Navigational warnings: For central part of western region of Black Sea, Area 2.	Bulgarian, English
1230	B	Observations from stations at Shabla, Cap Kaliakra, Varna, Cap Emine, Bourgas and Ahtopol.	Bulgarian, English

CANADA

Marine Rescue Co-ordination Centre: Iqaluit (CCG)

Region: IV

Position: 63°43'.7N 068°33'.00W

METAREA: IV

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	8416.5		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0330, 1530	A	METAREA bulletins for Sea Areas 100-108, 153, 154, 170-173 and 175-177. Navigational warnings.	

CHILE**Maritime Radio Station: Centro Meteorológico Presidente Eduardo Frei Montalva****Region:** VII**Position:****METAREA:** XV**Area Covered:** Antarctic area and surroundings

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	5 302.5 kHz		
Radio-Telex	B	11 662.5 kHz		
Radio-Telex	C	15 470 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030, 0330, 0630, 0930, 1230, 1530, 1830, 2130	A-C	Synoptic summary for Antarctic.	
1230, 1830	A-C	Forecast for route to Eduardo Frei Montalva terminal.	
1530, 2130	A-C	Weather forecast for Drake Passage and Bellingshausen Sea.	

CHILE**Maritime Radio Station: Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)****Region:** III**Position:** 32°48'S 71°29'W

24-hour watch

METAREA: XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 214.5 kHz		
Radio-Telex	A	4 217.5 kHz		
Radio-Telex	A	8 420.5 kHz		
Radio-Telex	A	8 424 kHz		
Radio-Telex	A	12 583.5 kHz		
Radio-Telex	A	16 811 kHz		
Radio-Telex	A	16 814.5 kHz		
Radio-Telex	A	22 380.5 kHz		
Radio-Telex	B	12 587 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110	A	Storm warnings, synopsis and forecast for Areas 1-8.	Spanish, English
1210	A	Storm warnings, synopsis and forecast for Areas 1-6.	Spanish, English
1430	A, B	Navigational warnings: NAVAREA XV warnings and coastal warnings (NURNAV).	Spanish, English
1610	A	Storm warnings, synopsis and forecast for Areas 7,8.	Spanish, English
1845	A	Storm warnings, synopsis, 24 hour forecast for Areas 10.	Spanish, English
On request	B	Storm warnings, synopsis and forecast for Areas 1-8.	Spanish, English

CHINA**Maritime Radio Station: Guangzhou****Region:** II**Position:** 23°09'N 113°29'E

24-hour watch

METAREA: XI**Area Covered:** East/South China Sea
Taiwan Straits, Bashi Channel, Nanhai Sea and Beibu Wan Gulf (Bac Bo Gulf) (see map)

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 219 kHz		1200-0000
Radio-Telex	B	6 329 kHz		0000-1200
Radio-Telex	C	8 431 kHz		H24
Radio-Telex	D	12 622.5 kHz		H24
Radio-Telex	E	16 854 kHz		H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0120	B-E	Tropical storm warnings, 24 hour forecast. Navigational warnings: For coastal waters of China S of 24°N.	Chinese
0120	B-E	24 hour forecast.	English
0720	B-E	Navigational warnings: For coastal waters of China S of 24°N.	English
1320	A, C-E	24 hour forecast.	English
1320	A, C-E	Tropical storm warnings, 24 hour forecast. Navigational warnings: For coastal waters of China S of 24°N.	Chinese

CHINA**Maritime Radio Station: Shanghai****Region:** II**Position:** 31°07'N 121°33'E

24-hour watch

METAREA: XI**Area Covered:** East/South China Sea
Bohai Sea, Huanghai Sea, Donghai Sea, Shanghai Port, Taiwan Straits and sea areas around Taiwan province (see map)

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 215 kHz		1000-2200
Radio-Telex	B	6 326 kHz		2200-1000
Radio-Telex	C	8 425.5 kHz		H24
Radio-Telex	D	12 637.5 kHz		H24
Radio-Telex	E	16 898.5 kHz		H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0250, 0650, 1350, 2350	A-E	Navigational warnings: For coastal waters of China N of 24°N.	Chinese, English

CHINA**Maritime Radio Station: Tianjin****Region:** II**Position:** 38°54'N 117°44'E**METAREA:** XI**Area Covered:** North and Central Huanghai Sea and the Bohai Sea (see map)

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	12 581.5 kHz		H24
Radio-Telex	A	4 212.5 kHz		1000-2200
Radio-Telex	A	8 417.5 kHz		H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0500, 0700, 1200, 1600, 2000, 2300	A	Gale warnings.	Chinese, English
0500, 1200, 2300	A	Navigational warnings: For Bo Hai.	Chinese
0500, 1200, 2300	A	Navigational warnings: For Bo Hai.	Chinese, English
0700	A	Navigational warnings: For Bo Hai.	English

EGYPT**Maritime Radio Station: Serapeum Ismailia****Region:** I**Position:** 30°28'.00N 032°22'.00E**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4210		
Radio-Telex	B	6314		
Radio-Telex	C	8416.5		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0630	A		
1030	B		
1430	C		

GREECE**Maritime Radio Station: Olympia Radio****Region:** VI**Position:****METAREA:** III**Area Covered:** Europe - Mediterranean

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	8 424 kHz		0930-2130

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0930, 2130	A	Weather synopsis, 24 hour forecast and outlook for a further 12 hours for Sea Areas 18-53. Gale warnings for Sea Areas 18-53.	Greek, English

GUAM**Marine Rescue Co-ordination Centre: Guam (USCG)****Region:** V**Position:** 13°29'.00N 144°50'.00E**METAREA:** XI**Area Covered:** Pacific area

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	12 579 kHz		
Radio-Telex	B	16 806.5 kHz		
Radio-Telex	C	22 376 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230, 0500, 0900, 1500, 1900, 2315	A-C	Maritime Safety Information.	
0500, 1500, 1900, 2315	A-C	Weather forecast for N Pacific ocean W of 180°. Gale warnings for N Pacific Ocean W of 180° and the Indian Ocean.	

INDONESIA**Maritime Radio Station: Jakarta****Region:** V**Position:** 06°07'S 106°51'E

24-hour watch

METAREA: XI**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	8 416.5		
Radio-Telex	B	16 806.5		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000, 1130	B	Meteorological and navigational warnings.	English
1100	A	Storm warnings, 24 hour forecast, synopsis and analysis for Indonesian waters and China Sea, also Indian and Pacific Oceans. Storm warnings for Indonesian waters and China Sea, also Indian and Pacific Oceans if applicable.	English

IRAN, ISLAMIC REPUBLIC OF**Maritime Radio Station: Abbas****Region:** II**Position:** 27°12'.00N 057°17'.00E**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 MHz		
Radio-Telex	B	8 MHz		
Radio-Telex	C	12 MHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530, 1230	B		
0830, 1030	C		
1430, 1830	A		

PERU

Maritime Radio Station: Callao

Region: III

Position: 12°03'.00S 077°07'.00W

METAREA: XVI

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	8 MHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1600	A		

PERU

Maritime Radio Station: Mollendo

Region: III

Position: 17°01'.00S 072°01'.00W

METAREA: XVI

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	8 MHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
2100	A		

PERU

Maritime Radio Station: Paita

Region: III

Position: 05°05'.00S 081°07'.00W

METAREA: XVI

Area Covered:

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	8 MHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200	A		

RUSSIAN FEDERATION (EUROPE)**Maritime Radio Station: Arkhangel'sk****Region:** VI**Position:** 64°51'N 40°17'E**METAREA:** XX**Area Covered:** North Atlantic to Barents Sea - Arctic coast

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	446 kHz		UGE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0510, 0530, 1710, 1730	A	Navigational warnings: Coastal warnings for Belye More (White Sea).	Russian

RUSSIAN FEDERATION (EUROPE)**Maritime Radio Station: Kaliningrad****Region:** VI**Position:** 54°42'N 20°30'E

24-hour watch

METAREA: I**Area Covered:** Baltic Coast

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4228		
Radio-Telex	B	8454		
Radio-Telex	C	12 877.5		
Radio-Telex	D	16 927		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1000, 1620	A-D	Navigational warnings: NAVIP and NAVAREA (inshore warnings) for areas I, II, IV, V and VI.	

RUSSIAN FEDERATION (EUROPE)**Maritime Radio Station: Murmansk****Region:** VI**Position:**

24-hour watch

METAREA: I**Area Covered:** Arctic Coast - North Atlantic to Barents Sea

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	521.5 kHz		UDK
Radio-Telex	B	6 393.5 kHz		UDK2
Radio-Telex	C	13 050 kHz		UDK2

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0400, 1730	A-C	Navigational warnings: For Greenland Sea N of 71°N, Karskoye More and Barents Sea (excluding Ostrov Zemlya Frantsa-Losifa).	Russian
0420, 1740	A-C	Situation and synopsis, forecast and wave forecast for Barents Sea (except SE part), Norwegian coast, Kok'skiy Poluostrov and Kol'skiy Zaliv.	Russian

RUSSIAN FEDERATION (IN ASIA)**Maritime Radio Station: Beringovskiy****Region:** II**Position:****METAREA:** XIII**Area Covered:** West Pacific/Sea of Japan

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	2 182 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A	24 hour weather forecast for Port Beringovskiy and coastal waters out to 20 n miles from Anadyrskiy Liman to Bukhta Dezhneva.	Russian

RUSSIAN FEDERATION (IN ASIA)**Maritime Radio Station: Dikson****Region:** II**Position:****METAREA:** XX**Area Covered:** Arctic Coast

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	428.6 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0818, 2018	A	Navigational warnings: Coastal warnings for Karskoye More (including Ostrov Zemlya Frantsa-losifa) and More Laptevykh to 125°E.	Russian

RUSSIAN FEDERATION (IN ASIA)**Maritime Radio Station: Petropavlovsk-Kamchatskiy****Region:** II**Position:** 53°00'N 158°40'E**METAREA:** XIII**Area Covered:** Pacific coast

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 210 kHz		
Radio-Telex	B	4 233 kHz		
Radio-Telex	C	6 314 kHz		
Radio-Telex	D	6 360.5 kHz		
Radio-Telex	E	8 451 kHz		
Radio-Telex	F	12 579 kHz		
Radio-Telex	G	12 603 kHz		
Radio-Telex	H	17 045 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000, 0700	B, D, E, G, H	Navigational warnings: List of numbers of coastal warnings in force.	English
0900	A, C, F	Navigational warnings: NAVAREA XIII warnings and list of numbers of coastal warnings in force.	English
0900, 2100	A, C, F	Summary and synopsis for 24 hours, weather forecasts and sea state for 12 hours and forecast for next 24 hours for Penzhinskaya Guba, E part of Zaliv Shelikhova for coastal waters of Poluostrov Kamchatka and Komandorskiy Ostrova (in Okhotskoye More and Bering Sea).	
2100	A, C	Navigational warnings: NAVAREA XIII warnings.	English

RUSSIAN FEDERATION (IN ASIA)**Maritime Radio Station: Vladivostok****Region:** II
Position: 43°07'N 131°53'E

24-hour watch

METAREA: XIII**Area Covered:** West Pacific/Sea of Japan

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	3 165 kHz		UFL
Radio-Telex	B	8 595 kHz		UFL
Radio-Telex	C	12 729 kHz		UFL
Radio-Telex	D	17 175.2 kHz		UFL
Radio-Telex	E	4241		UFZ
Radio-Telex	F	6314		UFZ
Radio-Telex	G	6460		UFZ
Radio-Telex	H	8416.5		UFZ
Radio-Telex	I	8643		UFZ
Radio-Telex	J	12579		UFZ
Radio-Telex	K	12799.5		UFZ
Radio-Telex	L	16806.5		UFZ
Radio-Telex	M	17155		UFZ

RUSSIAN FEDERATION (IN ASIA)

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200	F, J, L	Storm warnings for Sea of Japan N of 42°N and NW Pacific Ocean from Kuril'skiye Ostrova to meridian 180° and N of 45°N. Storm warnings for Russian coastal waters in the Sea of Japan. List of numbers of current NAVAREA XIII warnings, list of numbers of current coastal warnings for NAVAREAS XII.	English
0200	F, J, L	24 hour weather forecast for Russian coastal waters in the Sea of Japan.	English
0900	E, G, I, K	Storm warnings for Sea of Japan including Tsugaru Kaikyo. Coastal warnings for Russian waters in the Sea of Japan, Tatarskiy Proliv, the SW part of Sea of Okhotsk to Zaliv Ayan; for the areas around Ostrov Sakhalin, including Proliv Laperuya and around the S part of Kuril'skiye Ostrova to the tip of Ostrov Ketoy.	Russian
0900	E, G, I, K	Synopsis for current 24 hour period, 12 hour wether forecast and se state for Sea of Japan including Tsugaru Kaikyo.	Russian
1100, 2300	A-D	24 hour weather forecast, for Okhotskoye More, Bering Sea, Sea of Japan N of 42° and NW Pacific Ocean from Kuril'skiye Ostrova to 180°E/W to N of 45°N.	English
1100, 2300	A-D	Storm warnings for Okhotskoye More, Bering Sea, Sea of Japn N of 42° and NW Pacific Ocean from Kuril'skiye Ostrova to 180° to N of 45°N. Storm warnings for Russian coastal waters in the Sea of Japan. List of numbers of NAVAREA XIII warnings in force. List of numbers NAVAREA XIII warnings. List of number of coastal warnings for NAVAREA XIII in force. Coastal warnings.	English
1130	A-D	Synopsis, weather and wave forecast for 24 hours for Sea of Japan.	Russian
1130, 2330	A-D	Storm warnings for Sea of Japan. List of numbers of numbers of coastal warnings for NAVAREA XIII warnings in force. Repeat of broadcast by Vladivostok (UFZ) and Petropavlovsk-Kamchatskiy. Coastal warnings. Repeat of broadcast by Vladivostok (UFZ) and Petropavlovsk-Kamchatskiy. List of numbers of NAVAREA XIII warnings. List of numbers of current NAVAREA XIII and NAVIP warnings.	Russian
2300	E, G, K, M	Storm warnings for Sea of japan including Tsugaru Kaikyo. Coastal warnings for Russian waters in the Sea of Japan, Tatarskiy Proliv, the SW part of Sea of Okhotsk to Zaliv Ayan; for the areas around Ostrov Sakhalin, including Proliv Laperuya and around the S part of Kuril'skiye Ostrova to the s tip of ostrov Ketoy.	Russian
2300	E, G, K, M	Synopsis for current 24 hour period, 24 hour wether forecast and se state for Sea of Japan including Tsugaru Kaikyo.	Russian
2330	A-D	Synopsis, weather and wave forecast for 12 hours for Sea of Japan.	Russian
2330 (Sun)	A-D	List of numbers of current NAVAREA XIII and NAVIP warnings in force for areas X-XII and XIV for the last 6 weeks.	Russian

SOUTH AFRICA**Maritime Radio Station: Cape Naval****Region: I****Position:****METAREA: VII****Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 014 kHz		0600-1600
Radio-Telex	B	7 508 kHz		H24
Radio-Telex	C	13 538 kHz		H24
Radio-Telex	D	18 238 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0930, 1700	A-D	Forecast for coastal waters and adjacent high seas. Synopsis for high seas.	

TURKEY**Maritime Radio Station: Istanbul****Region:** VI**Position:** 41°04'.00N 028°57'.00E**METAREA:** III**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4560		
Radio-Telex	B	8431		
Radio-Telex	C	12654		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0800, 2000	A-C	Weather forecast for Areas 12-27.	Turkish, English

UKRAINE**Maritime Radio Station: Mariupol'****Region:** VI**Position:** 47°06'N 37°33'E

24-hour watch

METAREA: III**Area Covered:** Mediterranean Sea/Black Sea

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	B	16 829 kHz		
Radio-Telex	B	12 615 kHz		
Radio-Telex	B	8 422.5 kHz		
Radio-Telex	B	6 326.5 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0330	A	12 hour weather sea state forecast for Sea of Azov and Kerchenskiy Proliv to a line between Mys Takil' and Mys Panagiya.	Russian repeated in MARFOR FM 61
0930	A	24 hour weather and sea state forecast for Sea of Azov. Navigational warnings: Ice conditions for Sea of Azov	Russian repeated in MARFOR FM 61
On receipt 0233, 0633, 1033, 1433, 1833, 2233 On request	A	Navigational warnings: For Sea of Azov.	Russian, English

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Boston, Massachusetts (USCG)****Region:** IV**Position:** 41°39'.00N 070°33'.00W**METAREA:** IV**Area Covered:** Atlantic area

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	6 314 kHz		
Radio-Telex	B	8 416.5 kHz		
Radio-Telex	C	12 579 kHz		
Radio-Telex	D	16 806.5 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030 (Feb-July approx)	A-C	Navigational warnings: International Ice Patrol Bulletin. Ice chart available on request.	
0140	A-C	Gale warnings, 24 hour forecast or North Atlantic, W of 35°W, including the Caribbean Sea and Gulf of Mexico. Navigational warnings.	
1218 (Feb-July approx)	B-D	Navigational warnings: International Ice Patrol Bulletin. Ice chart available on request.	
1630	B-D	Gale warnings, 24 hour forecast or North Atlantic, W of 35°W, including the Caribbean Sea and Gulf of Mexico. Navigational warnings.	

UNITED STATES OF AMERICA**Marine Rescue Co-ordination Centre: Mobile (USCG)****Region:** IV
Position: 30°42'N 88°02'W**METAREA:** IV
Area Covered: Gulf coast

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 213 kHz		H24
Radio-Telex	B	6 317 kHz		H24
Radio-Telex	C	8 419 kHz		H24
Radio-Telex	D	8 421 kHz		H24
Radio-Telex	E	8 423.5 kHz		H24
Radio-Telex	F	12 581.5 kHz		H24
Radio-Telex	G	12 584.5 kHz		H24
Radio-Telex	H	16 809 kHz		H24
Radio-Telex	I	16 814 kHz		H24
Radio-Telex	J	19 685.5 kHz		H24
Radio-Telex	K	22 383.5 kHz		H24
Radio-Telex	L	26 105.5 kHz		H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0500, 1100, 1700, 2300	A-L	Forecast for Gulf of Mexico, Southwest North Atlantic and Caribbean.	

UNITED STATES OF AMERICA**Maritime Radio Station: Palmer Station****Region:** VII**Position:****METAREA:** ANTARCTICA**Area Covered:** Antarctic area and surroundings

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	4 553 kHz		
Radio-Telex	B	10 235 kHz		
Radio-Telex	C	13 553 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0100	A	Navigational warnings: Ice reports for 60°W-20°E.	
1500	C	Navigational warnings: Ice reports for 60°W-20°E.	
2000	B	Navigational warnings: Ice reports for 60°W-20°E.	

UNITED STATES OF AMERICA

Marine Rescue Co-ordination Centre: Point Reyes, San Francisco (CAMSPAC)

Region: IV

Position:

METAREA: XII

Area Covered: Pacific coast

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	8 416.5 kHz		
Radio-Telex	B	16 806.5 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0015, 1730	A, B	High Seas forecast for NE Pacific - Equator to 30°N and E of 140°W and mid Pacific. Navigational Warnings.	

UNITED STATES OF AMERICA (HAWAII)**Marine Rescue Co-ordination Centre: Honolulu****Region:** V**Position:** 21°26'.00N 158°09'.00W**METAREA:** XII**Area Covered:** Pacific area

Mode Of Transmission	ID	Frequency	Area	Hours of Operation
Radio-Telex	A	8 416.5 kHz		
Radio-Telex	B	12 579 kHz		
Radio-Telex	C	22 376 kHz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 2030	A-C	High seas forecast for Pacific Ocean. Navigational warnings: Maritime Safety Information.	
0730, 1330	A,B	High seas forecast for Pacific Ocean. Navigational warnings: Maritime Safety Information.	

PART D

METEOROLOGICAL BROADCASTS BY RADIO-FACSIMILE

Meteorological Broadcasts by Radio-Facsimile

This part contains the facsimile broadcast transmissions of meteorological charts of interest to shipping and fisheries. The following presentation has been adopted for each schedule:

KENYA

Nairobi

HKNC

I. TECHNICAL SPECIFICATIONS — CARACTÉRISTIQUES TECHNIQUES

Frequency	Band Width Largeur de bande	Call Sign Indicatif d'appel	Class of Emission Catégorie d'émission	Power Supplied to the Antenna Puissance fournie à l'antenne	Hours of Operation Heures d'utilisation
9 043 kHz	White/black ± 400 kHz	5YE1	F3C	10 kW	H24
17 445kHz	White/black ± 400 kHz	5YE1	F3C	10 kW	1430-0230
4 610 kHz	White/black ± 400 kHz	5YE1	F3C	10 kW	Jul-Dec

II. MAP AREA — ZONE COUVERTE PAR LA CARTE

Area / Zone	Area Coverage / Zone Couverte	Projection	Scale / Échelle
1.	05N - 60N, 110W - 160W	Mercator	1: 25.000.000 at 22°30'

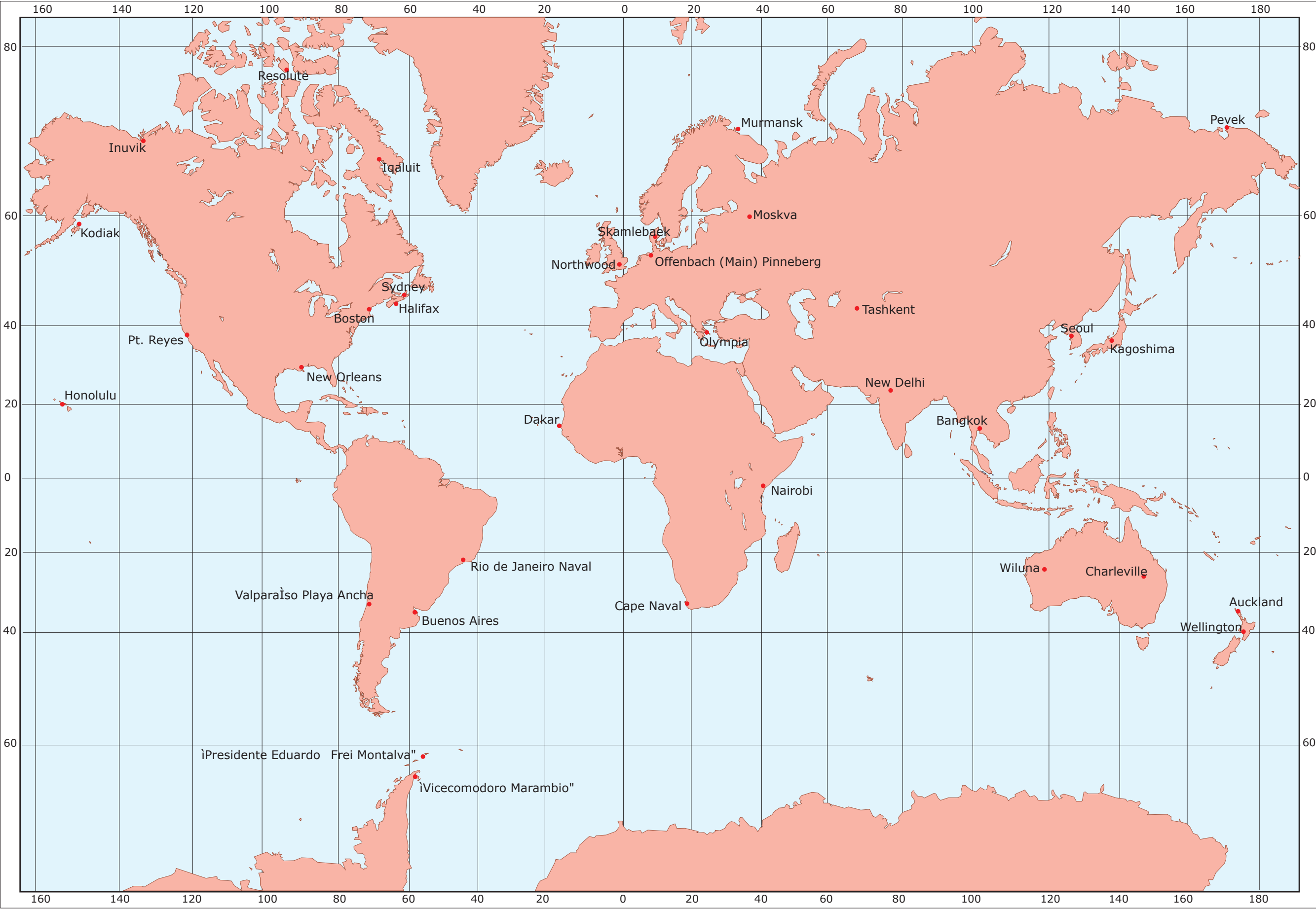
III. CONTENTS OF BROADCAST SCHEDULES — CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) Heure de transmission (Groupe horaire) (UTC)	TTAAii	CCCC	Details of Chart Renseignements figurant sur la carte	Map Area Zone couverte par la carte	Drum Speed Vitesse du cylindre
1345(06) 1708(12)		EDZW	E/B	Indian Ocean analysis	120/576
0530(00) 1730(12)		EDZW	A	250 hPa analysis	120/576
1121 2200		EDZW		Ice analysis Gulf of St. Lawrence	120/576

Explanation of the radio-facsimile presentation:

KENYA		The schedules are arranged in English alphabetical order of countries, with the name of the country transmitting the broadcast schedule given at the top of the page.
	Nairobi HKNC	The name of the transmitting centre. CCCC - International four letter location indicator of the centre originating the chart.
	Area coverage	The area in which the broadcast is intended to bereceived. This can include geographical co-ordinates or a geographical area.
I	<p>(a) Frequency</p> <p>(b) Band width</p> <p>(c) Call Sign</p> <p>(d) Class of Emission</p>	<p>Refers to the centre value about which the frequency shift takes place.</p> <p>Frequency shift</p> <p>Can either be the Name of the call sign of the Station</p> <p>This column specifies the class of emission of the frequencies indicated under the column "Frequency used". The following symbols are used</p> <p>AMPLITUDE MODULATION</p> <hr/> <p>A1A Telegraphy without the use of a modulating audio frequency (by on-off keying)</p> <p>A2A Telegraphy by the on-off keying of an amplitude-modulating audio frequency of audio frequencies, or by the on-off keying of the modulated emission (special case: an unkeyed emission amplitude modulated)</p> <p>A3E Telephony, double sideband</p> <p>R3E Telephony, single sideband, reduced carrier</p> <p>H3E Telephony, single sideband, full carrier</p> <p>J3E Telephony, single sideband, suppressed carrier</p> <p>B9W Combination of telephony and telegraphy (two independent sidebands)</p> <p>FREQUENCY MODULATION</p> <hr/> <p>F1B Telegraphy by frequency shift keying without the use of a modulating audio frequency, one of two frequencies being emitted at any instant</p> <p>F3E Telephony, by direct frequency modulation of the carrier</p>
	(f) Hours of operation	When appropriate this column indicates the hours of operation, in UTC, of the various frequencies. Any seasonal variations are also shown eg H24, 0600-1600, Summer, June-December
II	<p>(a) Area</p> <p>(b) Projection</p> <p>(c) Scale</p>	<p>The map area refers to table "II. MAP AREA"</p> <p>Projection type eg Mercator, Lambert's Conical Orthomorphic, Polar Stereographic</p> <p>Indicates the scale of the map eg. 1:6,000,000 true at 60°N (45 cm x 55 cm)</p>
III	<p>(a) Transmission time</p> <p>(b) TTAAii</p> <p>(c) CCCC</p> <p>(d) Map area</p> <p>(e) Details of chart</p> <p>(e) Drum speed</p>	<p>This column gives the time at which the transmission is scheduled to begin. 0600(00) The times at which the observations contained in the chart were made are presented in parentheses.</p> <p>Abbreviated heading - data type and geographical designators.</p> <p>International four letter location indicator of the centre originating the chart.</p> <p>For each chart transmitted this column gives a letter/digit which corresponds to the area covered. The map areas corresponding to the letters are indicated at the beginning of the schedule. See table II – Map Area</p> <p>This column specifies details of the content of the chart eg: H+24 surface prognosis / Indian Ocean analysis / Test chart</p> <p>This relates to the drum speed, in revolutions per minute, and the Index of co-operation, which is generally 576. For complementary information see "WMO Publication No. 386 - Manual on the Global Telecommunication System, Volume"</p>

RADIO-FACSIMILE STATIONS TRANSMITTING WEATHER PRODUCTS



ARGENTINA

Station Name: Buenos Aires (PREFECTURA NAVAL)

Region: III

Position: 34°27'S 58°37'W

METAREA: VI

Area of reception: South Atlantic

Area I: Covers the Río de la Plata, from the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay 34°58'10"S, 54°57'05"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina 36°17'38"S, 56°47'05"W), and the area of the Atlantic ocean between the two geographical points and 300 n miles out to sea.

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
18 093 kHz					
10 720 kHz					
5 185 kHz					

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
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A

1: 20.000.000

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0400(00) 1620(12)		SABM	Surface analysis	A	120/576
0510(00) 1640(12) 1920(12)		SABM	500 hPa height analysis	A	120/576
0600(00) 1740(12)		SABM	200 hPa height analysis	A	120/576
0800(00)		SABM	1000/500 hPa thickness	A	120/576
1400(12) 2100(18)		SABM	Nephanalysis	A	120/576
1700(12)		SABM	850 hPa height analysis	A	120/576
1720(12)		SABM	Height analysis (troposphere and maximum events)	A	120/576
1800(12) 2200(12)		SABM	700 hPa height analysis	A	120/576
1900(12)		SABM	24 H surface prognosis	A	120/576
1940(12)		SABM	250 hPa height prognosis	A	120/576
2000(12)		SABM	850/150 hPa significant height prognosis	A	120/576
2300(12)		SABM	Wave forecast	A	120/576

Web Link: --

ARGENTINA

Station Name: Centro Meteorológico Base Marambio

Region: VII

Position:

METAREA: VI

Area of reception: Antarctic area and surroundings

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
9 951 kHz	LSB	F3C	white +400 Hz, black -400 Hz	-	
2 401 kHz	LSB	F3C	white +400 Hz, black -400 Hz	-	
4 807 kHz	LSB	F3C	white +400 Hz, black -400 Hz	-	

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	10°S-90°S All longitudes	Polar Stereographic	

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0025(21) 1225(09)		SABM	Surface analysis	A	120/576
0325(00) 1525(12)		SABM	Surface analysis et nephanalysis	A	120/576
2030		SABM	24 hour wave height forecast	A	120/576

Web Link: --

AUSTRALIA

Station Name: Charleville (Queensland)

Region: V

Position:

METAREA: X

Area of reception: Southwards from 10N, 70E - 150W

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
5 100 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
11 030 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
13 920 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
20 469 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	1900-0900
2 628 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	0900-1900

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

AUSTRALIA

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0000*		AMMC	Indian Ocean Mean Sea Level Pressure Analysis Valid 1200	-	120/576
0015		AMMC	VMC/VMW Schedule – 2 pages	-	120/576
0045		AMMC	VMC/VMW Broadcast Information	-	120/576
0100		AMMC	Recommended Frequencies for VMC (Charleville) – 3 pages	-	120/576
0131		AMMC	Recommended Frequencies for VMW (Wiluna) – 3 pages	-	120/576
0203		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	-	120/576
0245		AMMC	Australian Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0300		AMMC	Australian Primary Swell Waves Forecast (H+24) Valid 0000	-	120/576
0315		AMMC	Voice Broadcast Information for VMC and VMW	-	120/588
0345*		AMMC	Australian Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0400		AMMC	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0430		AMMC	Australian Mean Sea Level Pressure 4-day forecast – 2 pages	-	120/576
0500*		AMMC	Australian Mean Sea Level Pressure 4-day forecast – 2 pages	-	120/576
0600		AMMC	Asian (Area A) Gradient Level Wind Analysis Valid 0000	-	120/576
0623		AMMC	Asian (Area B) Gradient Level Wind Analysis Valid 0000	-	120/576
0645		AMMC	Asian Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0730		AMMC	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0745		AMMC	Australian Total Wave Height and Direction Forecast (H+24) Valid 0000	-	120/576
0800		AMMC	Australian Primary Swell Waves Forecast (H+24) Valid 0000	-	120/576
0830		AMMC	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0845		AMMC	Australian Mean Sea Level Pressure Analysis Valid 0600	-	120/576
0900		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	-	120/576
0915		AMMC	Australian Mean Sea Level Pressure 4-day forecast – 2 pages	-	120/576
1015		AMMC	Southern Ocean Total Wave Height and Direction (H+24) valid 0000	-	120/576
1030		AMMC	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
1045		AMMC	Southern Hemisphere Mean Sea Level Pressure Forecast (H+48) Valid 0000	-	120/576

AUSTRALIA

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1100		AMMC	Southern Ocean Total Wave Height and Direction (H+36) valid 0000	-	120/576
1115		AMMC	Australian Mean Sea Level Pressure Analysis Valid 0600	-	120/576
1130		AMMC	Asian Sea Surface Temperature Analysis	-	120/576
1145		AMMC	VMC/VMW Information Notice	-	120/576
1200		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 1200	-	120/576
1215		AMMC	VMC/VMW Schedule – 2 pages	-	120/576
1245		AMMC	Indian Ocean Mean Sea Level Pressure Forecast (H+36) Valid 1200	-	120/576
1315		AMMC	South Pacific Ocean Total Waves (H+48) Valid 0000	-	120/576
1330		AMMC	Indian Ocean Total Waves (H+48) Valid 0000	-	120/576
1345		AMMC	Pacific Ocean Sea Surface Temperatures	-	120/576
1400		AMMC	Indian Ocean Sea Surface Temperatures	-	120/576
1415		AMMC	Southern Ocean Total Wave Height and Direction (H+48) valid 0000	-	120/576
1430		AMMC	Australian Mean Sea Level Pressure Analysis Valid 1200	-	120/576
1500		AMMC	Australian Primary Swell Waves Forecast (H+24) Valid 0000	-	120/576
1515		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 1200	-	120/576
1530		AMMC	Australian Mean Sea Level Pressure 4-day forecast – 2 pages	-	120/576
1600		AMMC	Asian Mean Sea Level Pressure Analysis Valid 0000	-	120/576
1630		AMMC	Recommended Frequencies for VMC (Charleville) – 3 pages	-	120/576
1701		AMMC	Recommended Frequencies for VMW (Wiluna) – 3 pages	-	120/576
1800		AMMC	Asian (Area A) Gradient Level Wind Analysis Valid 1200	-	120/576
1823		AMMC	Asian (Area B) Gradient Level Wind Analysis Valid 1200	-	120/576
1915		AMMC	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
1930		AMMC	Australian Total Wave Height and Direction Forecast (H+24) Valid 1200	-	120/576
1945		AMMC	Australian Primary Swell Waves Height Forecast (H+24) Valid 1200	-	120/576
2000		AMMC	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
2015		AMMC	Southern Ocean Total Wave Height and Direction (H+24) valid 0000	-	120/576
2030		AMMC	Australian Mean Sea Level Pressure Analysis (Manual) Valid 1800	-	120/576

AUSTRALIA

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
2215		AMMC	Southern Ocean Total Wave Height and Direction (H+36) valid 0000	-	120/576
2230		AMMC	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	-	120/576
2245		AMMC	Southern Hemisphere Mean Sea Level Pressure Forecast (H+48) Valid 1200	-	120/576
2300		AMMC	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	-	120/576
2315		AMMC	Southern Ocean Total Wave Height and Direction (H+48) valid 0000	-	120/576
2330		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	-	120/576
2345		AMMC	Indian Ocean Mean Sea Level Pressure Forecast (H+48) Valid 1200	-	120/576

Scanning line density: 3.8 lines/mm. ning frequency 120 lines/minute

Start Signals: Carrier modulated by 300 Hz for five (5) seconds.

Phasing signals: BLACK signal interrupted by one (1) WHITE phasing pulse per revolution of the facimile drum, transmitted for at least thirty (30) seconds prior to the transmission of the chart.

Stop signals: Carrier modulated by 450 Hz for five (5) seconds followed by ten (10) seconds of BLACK signal will be transmitted.

*These charts are only broadcast on 11030 kHz via a directional aerial pointing from Charleville (VMC) towards Tasmania.

Web Link: <http://www.bom.gov.au/marine/radio-sat/vmc-technical-guide.shtml>

AUSTRALIA

Station Name: Wiluna (Western Australia)

Region: V

Position:

METAREA: X

Area of reception: Southwards from 25N -25S, 75E - 180W

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
15 615 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
5 755 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	1100-2100
10 555 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
18 060 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	2100-1100
7 535 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

AUSTRALIA

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0000*		AMMC	Indian Ocean Mean Sea Level Pressure Analysis Valid 1200	-	120/576
0015		AMMC	VMC/VMW Schedule – 2 pages	-	120/576
0045		AMMC	VMC/VMW Broadcast Information	-	120/576
0100		AMMC	Recommended Frequencies for VMC (Charleville) – 3 pages	-	120/576
0131		AMMC	Recommended Frequencies for VMW (Wiluna) – 3 pages	-	120/576
0203		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	-	120/576
0245		AMMC	Australian Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0300		AMMC	Australian Primary Swell Waves Forecast (H+24) Valid 0000	-	120/576
0315		AMMC	Voice Broadcast Information for VMC and VMW	-	120/588
0345*		AMMC	Australian Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0400		AMMC	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0430		AMMC	Australian Mean Sea Level Pressure 4-day forecast – 2 pages	-	120/576
0500*		AMMC	Australian Mean Sea Level Pressure 4-day forecast – 2 pages	-	120/576
0600		AMMC	Asian (Area A) Gradient Level Wind Analysis Valid 0000	-	120/576
0623		AMMC	Asian (Area B) Gradient Level Wind Analysis Valid 0000	-	120/576
0645		AMMC	Asian Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0730		AMMC	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0745		AMMC	Australian Total Wave Height and Direction Forecast (H+24) Valid 0000	-	120/576
0800		AMMC	Australian Primary Swell Waves Forecast (H+24) Valid 0000	-	120/576
0830		AMMC	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
0845		AMMC	Australian Mean Sea Level Pressure Analysis Valid 0600	-	120/576
0900		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	-	120/576
0915		AMMC	Australian Mean Sea Level Pressure 4-day forecast – 2 pages	-	120/576
1015		AMMC	Southern Ocean Total Wave Height and Direction (H+24) valid 0000	-	120/576
1030		AMMC	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
1045		AMMC	Southern Hemisphere Mean Sea Level Pressure Forecast (H+48) Valid 0000	-	120/576

AUSTRALIA

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1100		AMMC	Southern Ocean Total Wave Height and Direction (H+36) valid 0000	-	120/576
1115		AMMC	Australian Mean Sea Level Pressure Analysis Valid 0600	-	120/576
1130		AMMC	Asian Sea Surface Temperature Analysis	-	120/576
1145		AMMC	VMC/VMW Information Notice	-	120/576
1200		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 1200	-	120/576
1215		AMMC	VMC/VMW Schedule – 2 pages	-	120/576
1245		AMMC	Indian Ocean Mean Sea Level Pressure Forecast (H+36) Valid 1200	-	120/576
1315		AMMC	South Pacific Ocean Total Waves (H+48) Valid 0000	-	120/576
1330		AMMC	Indian Ocean Total Waves (H+48) Valid 0000	-	120/576
1345		AMMC	Pacific Ocean Sea Surface Temperatures	-	120/576
1400		AMMC	Indian Ocean Sea Surface Temperatures	-	120/576
1415		AMMC	Southern Ocean Total Wave Height and Direction (H+48) valid 0000	-	120/576
1430		AMMC	Australian Mean Sea Level Pressure Analysis Valid 1200	-	120/576
1500		AMMC	Australian Primary Swell Waves Forecast (H+24) Valid 0000	-	120/576
1515		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 1200	-	120/576
1530		AMMC	Australian Mean Sea Level Pressure 4-day forecast – 2 pages	-	120/576
1600		AMMC	Asian Mean Sea Level Pressure Analysis Valid 0000	-	120/576
1630		AMMC	Recommended Frequencies for VMC (Charleville) – 3 pages	-	120/576
1701		AMMC	Recommended Frequencies for VMW (Wiluna) – 3 pages	-	120/576
1800		AMMC	Asian (Area A) Gradient Level Wind Analysis Valid 1200	-	120/576
1823		AMMC	Asian (Area B) Gradient Level Wind Analysis Valid 1200	-	120/576
1915		AMMC	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
1930		AMMC	Australian Total Wave Height and Direction Forecast (H+24) Valid 1200	-	120/576
1945		AMMC	Australian Primary Swell Waves Height Forecast (H+24) Valid 1200	-	120/576
2000		AMMC	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	-	120/576
2015		AMMC	Southern Ocean Total Wave Height and Direction (H+24) valid 0000	-	120/576
2030		AMMC	Australian Mean Sea Level Pressure Analysis (Manual) Valid 1800	-	120/576

AUSTRALIA

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
2215		AMMC	Southern Ocean Total Wave Height and Direction (H+36) valid 0000	-	120/576
2230		AMMC	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	-	120/576
2245		AMMC	Southern Hemisphere Mean Sea Level Pressure Forecast (H+48) Valid 1200	-	120/576
2300		AMMC	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	-	120/576
2315		AMMC	Southern Ocean Total Wave Height and Direction (H+48) valid 0000	-	120/576
2330		AMMC	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	-	120/576
2345		AMMC	Indian Ocean Mean Sea Level Pressure Forecast (H+48) Valid 1200	-	120/576

Scanning line density: 3.8 lines/mm. ning frequency 120 lines/minute

Start Signals: Carrier modulated by 300 Hz for five (5) seconds.

Phasing signals: BLACK signal interrupted by one (1) WHITE phasing pulse per revolution of the facimile drum, transmitted for at least thirty (30) seconds prior to the transmission of the chart.

Stop signals: Carrier modulated by 450 Hz for five (5) seconds followed by ten (10) seconds of BLACK signal will be transmitted.

*These charts are only broadcast on 11030 kHz via a directional aerial pointing from Charleville (VMC) towards Tasmania.

Web Link: <http://www.bom.gov.au/marine/radio-sat/vmw-technical-guide.shtml>

BRAZIL**Station Name:** Rio de Janeiro Naval**Region:** III**Position:****METAREA:** V**Area of reception:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
12665 kHz	PWZ-33	F3C	-	1 kW	ALL BROADCAST TIMES
16978 kHz	PWZ-33	F3C	-	1 kW	ALL BROADCAST TIMES

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	20N 090W, 20N 000E, 70 S 090W, 70S 000E		1:101,200,000
B	20N 090W, 20N 020E, 70S 090W, 70S 020E		1:58,500,000
C	20N 090W, 20N 020E, 70S 090W, 70S 020E		1:58,500,000
D	15N 072W, 15N 018W, 50S 072W, 50S 018E		1:32,700,000

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0745/1630		SBBR	TEST CHART	-	120/576
0750(00)/1635(12)		SBBR	SURFACE ANALYSIS (Hpa)	A	120/576
0810(00)/1655(12)		SBBR	WAVES SIG HEIGHT (m) AND DIR PROG 12/00Z+36HR	B	120/576
0830(00)/1715(12)		SBBR	WIND AT 10 m (KTS) PROG 12/00Z +36 HR	C	120/576
0850(12)/1735(00)		SBBR	SEA SURFACE TEMPERATURE	D	120/576

Web Link: <http://www.mar.mil.br/dhn/chm/meteo/info/transmissoes/apend3ing.htm>

CANADA**Station Name:** Sydney, Nova Scotia (CCG)**Region:** IV**Position:** 46°10'N 60°00'W**METAREA:** IV**Area of reception:** North Atlantic to Barents Sea
Arctic coast, Atlantic Coast and S. Lawrence River**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
4416 kHz	VCO	J3C			1121-1741
6915.1 kHz	VCO	J3C			2200-2331

II. MAP AREA - ZONE COUVERTE PAR LA CARTE**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1121		CWAO	ICE ANALYSIS GULF OF ST. LAWRENCE		120/576
1142		CWAO	ICE ANALYSIS EAST OR SOUTHEAST NEWFOUNDLAND WATERS		120/576
1741		CWAO	ICE ANALYSIS ICEBERG LIMIT		120/576
2200		CWAO	ICE ANALYSIS GULF OF ST. LAWRENCE		120/576
2331		CWAO	ICE ANALYSIS EAST OR SOUTHEAST NEWFOUNDLAND WATERS		120/576

Web Link: <http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN-Atlantic-2011-eng.pdf>

CANADA**Station Name:** Inuvik (CCG)**Region:** IV**Position:** 68°19'N 133°35'W**METAREA:** IV**Area of reception:** Arctic coast, Atlantic Coast and S. Lawrence River**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
8457.8 kHz	VFA	1 KW		1 KW	J3C

II. MAP AREA - ZONE COUVERTE PAR LA CARTE**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0200		CWAO	Marine Wind Prognosis (Availability of charts may vary depending on shipping Ice Analysis (mid July to October 15) Amundsen Gulf, Queen Maud and McClure Strait. Ice Analysis Beaufort Sea/Alaskan Coast		120/576
1630		CWAO	Marine Surface Analysis (Availability of charts may vary depending on shipping Ice Analysis (mid July to October 15) Amundsen Gulf, Queen Maud and McClure Strait. Ice Analysis Beaufort Sea/Alaskan Coast		120/576

Note: Also available on request

Web Link: [://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN-Pacific-2011-eng.pdf](http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN-Pacific-2011-eng.pdf)

CANADA**Station Name:** Iqaluit, NWT (CCG)**Region:** IV**Position:** 63°44'N 68°33'W**METAREA:** IV**Area of reception:** Arctic coast, Atlantic Coast and S. Lawrence River**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
3253.0 kHz	VFF	J3C	-	5 KW	2100 – 2330 UTC
7710.0 kHz	VFF	J3C	-	5 KW	0010 – 0900 UTC

II. MAP AREA - ZONE COUVERTE PAR LA CARTE**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0100/1000		CWAO	Marine Surface Analysis (Arctic) Marine Wind Prognosis (Arctic)(experimental product) Regional Marine Wind Prognosis (on request)		120/576
0200/1100		CWAO	Ice analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay		120/576
0600/2100		CWAO	Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request)		120/576
0700/2200		CWAO	Ice Analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.		120/576

Operating only from approximately mid-June until late-November

Web Link: http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN_Atlantic2010-eng.pdf

CANADA

Station Name: Resolute, NWT (CCG)

Region: IV

Position: 74°45'N 94°58'W

METAREA: IV

Area of reception: Arctic coast, Atlantic Coast and S. Lawrence River

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
3253.0 kHz	VFR	J3C	-	5 KW	0010 – 0900 UTC
7710.0 kHz	VFR	J3C	-	5 KW	2100 – 2330 UTC

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0100/1000		CWAO	Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request)		120/576
0200/1100		CWAO	Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maude.		120/576
0600/2100		CWAO	Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request)		120/576
0700/2200		CWAO	Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maude.		120/576

Operating only from approximately mid-June until late-November

Web Link: <http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN-Atlantic-2011-eng.pdf>

CANADA**Station Name:** Halifax, Nova Scotia (CCG)**Region:** IV**Position:** 44°28'N 63°37'W**METAREA:** IV**Area of reception:** Arctic coast, Atlantic Coast and S. Lawrence River**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
122.5 kHz	CFH	F3C	-	10 kW	ALL BROADCAST TIMES
4271 kHz	CFH	F3C	-	6 kW	ALL BROADCAST TIMES
6496.4 kHz	CFH	F3C	-	6 kW	ALL BROADCAST TIMES
10536 kHz	CFH	F3C	-	6 kW	ALL BROADCAST TIMES
13510 kHz	CFH	F3C	-	6 kW	ALL BROADCAST TIMES

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A.	56N 87W, 56N 24W, 34N 38W, 34N 73W		
B.	76N 16W, 30N 20W, 23N 11W, 08N 69W		
C.	52N 80W, 65N 15W, 30N 60W, 34N 17W		
D.	60N 68W, 60N 33W, 43N 33W, 43N 68W		
E.	50N 75W, 50N 48W, 34N 48W, 34N 75W		
F.	52N 98W, 58N 24W, 30N 39W, 28N 78W		
G.	52N 98W, 56N 24W, 30N 39W, 28N 78W		
H.	30N 107W, 15N 67W, 34N 24W, 79N 60W		
I.	54N 100W, 58N 22W, 30N 39W, 28N 78W		

CANADA

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
-----/1201		CWAO	3-DAY PROG	G	120/576
-----/1222		CWAO	4-DAY PROG	G	120/576
-----/1301		CWAO	5-DAY PROG	G	120/576
-----/1601		CWAO	850MB ANALYSIS	B	120/576
-----/1822		CWAO	850MB FORECAST WINDS	C	120/576
-----/2201		CWAO	SST: NOVA SCOTIA - TUE/THU/FRI NEWFOUNDLAND - WED/SAT	E/D	120/576
-----/2201		CWAO	OFA: NOVA SCOTIA - SUN NEWFOUNDLAND - MON	E/D	120/576
-----/2222		CWAO	NEWFOUNDLAND ICE CHART		120/576
-----/2301		CWAO	GULF OF ST LAWRENCE ICE CHART (SEASONAL)		120/576
0001/-----		CWAO	Ice Chart #1 (see note): Latest)		120/576
0101/-----		CWAO	SATELLITE PHOTO INFRARED		120/576
0201/1401		CWAO	12/00Z SIGNIFICANT WEATHER DEPICTION	A	120/576
0301/1501		CWAO	500MB ANALYSIS	B	120/576
0322/1522		CWAO	SURFACE ANALYSIS	F	120/576
0401/1622		CWAO	36HR 500MB FORECAST	H	120/576
0422/1701		CWAO	24HR SURFACE PROG	A	120/576
0501/-----		CWAO	850 MB FORECAST WINDS	C	120/576
0601/1801		CWAO	36HR SURFACE PROG	A	120/576
0701/1901		CWAO	18/06Z SIIGNIFICANT WEATHER DEPICTION	A	120/576
0801/2001		CWAO	24/36HR SIGNIFICANT WAVE PROGNOSIS	A	120/576
0901/2101		CWAO	SURFACE ANALYSIS	F	120/576
1001/-----		CWAO	OFA: NOVA SCOTIA - WED/SAT NEWFOUNDLAND - SUN/THU	E/D	120/576
1001/-----		CWAO	SST: NOVA SCOTIA - MON NEWFOUNDLAND - TUE/FRI	E/D	120/576
1022/-----		CWAO	SATELLITE PHOTO INFRARED		120/576
1101/-----		CWAO	CFH BROADCAST SCHEDULE		120/576

CANADA

NOTES:

This schedule of chart and text transmission is subject to short notice change according to the requirements of the Canadian Forces.

The geographical area of coverage for the ice charts varies according to season. The typical areas are: Gulf of St. Lawrence, East Newfoundland waters, Labrador Coast, Hudson Strait, Davis Strait and Baffin Bay. The Canadian Ice Service prepares all ice charts.

Web Link: http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN_Atlantic2010-eng.pdf

CHILE**Station Name:** Centro Meteorológico Presidente Eduardo Frei Montalva**Region:** VII**Position:****METAREA:** XV**Area of reception:** Antarctic area and surroundings**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
15 470 kHz	CAN 6D	-	white +400 Hz, black -400 Hz	1 kW	
11 662.5 kHz	CAN 6D	-	white +400 Hz, black -400 Hz	1 kW	
15 470 kHz	CAN 6D	-	white +400 Hz, black -400 Hz	1 kW	

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	Southern hemisphere	Polar Stereographic	

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0930 2130		SCSC	Forecast chart	A	120/576
1530(12)		SCSC	Surface chart and satellite picture	A	120/576
2130(18)		SCSC	Surface chart and satellite picture	A	120/576

Web Link: --

CHILE

Station Name: Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)

Region: III

Position: 32°48'S 71°29'W

METAREA: XV

Area of reception: East Pacific - Ocean areas south of 33°S between 20°W and 70°W. Chilean Maritime area

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
8 677.0 kHz	CBV	F3C	white +400 Hz, black -400 Hz	1 kW	H24
4 228.0 kHz	CBV	F3C	white +400 Hz, black -400 Hz	1 kW	H24
17 146.4 kHz	CBV	F3C	white +400 Hz, black -400 Hz	1 kW	H24

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
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A 10S-120W, 10S-050W, 80S-130W, 80S-030W

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1115(06) 1630(12) 2200(18)		SCEF/SCS	Surface analysis	A	120/576
1130(09) 1645(15) 1930(18) 2325(21)		SCEF/SCS	Satellite image	A	120/576
1915(1200)		SCEF/SCS	Significant wave map (MTS)	A	120/576
2215		SCEF/SCS	Ice report	A	120/576
2310		SCEF/SCS	12 hour surface forecast	A	120/576

Web Link: <http://www.directemar.cl/meteo/operador/horarios.htm>

DENMARK AND FAROE ISLANDS

Station Name: Skamlebaek (KØBENHAVN)

Region: VI
Position: 55°48'N 011°25'E

METAREA: I

Area of reception: North Sea, North Atlantic, Greenland sea areas south of 75°N and east of 50°W (SEE MAP)

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
9 360 kHz	OXT (1)	F3C	-	20 kW	0003-0025
5 850 kHz	OXT (1)	F3C	-	20 kW	0028-1005
13 855 kHz	OXT (1)	F3C	-	20 kW	1803-1825
9 360 kHz	OXT (1)	F3C	-	20 kW	1008-1215
17 510 kHz	OXT (1)	F3C	-	20 kW	1333-1355
9 360 kHz	OXT (1)	F3C	-	20 kW	1243-1305
9 360 kHz	OXT (1)	F3C	-	20 kW	1828-1850
13 855 kHz	OXT (1)	F3C	-	20 kW	1218-1240
13 855 kHz	OXT (1)	F3C	-	20 kW	1308-1330

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
1	Covers the southern tip of Greenland		
2	Section, which may cover any area north of 62°N according to need and time of year either on W or E coast of Greenland		

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0028 0003(2) 1243 1308 1333		EKMI/EKC	Ice chart	2 (or 1)	120/576
0943 1008 1153 1218 1803 1828		EKMI/EKC	Ice chart	1	120/576

NOTES :

(1) Call sign is transmitted for a period of 2 minutes immediately prior to chart transmission.

(2) Either one of chart #2 is transmitted if available, otherwise chart #1 is transmitted.

(3) Chart #1 covers the southern tip of Greenland. Chart #2 is a section, which may cover any area north of 62 degrees north according to need and time of year either on west or east coast of Greenland.

Web Link: --

GERMANY

Station Name: Offenbach (Main)-Hamburg/Pinneberg (broadcast for shipping)

Region: VI

Position:

METAREA: I

Area of reception: North Atlantic north of 40°N, East of 55°W, North Sea and Baltic Sea

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
3 855 kHz	DDH3	F1C	white +425 Hz / black -425 Hz	10 kW	0430-2300
7 880 kHz	DDK3	F1C	white +425 Hz / black -425 Hz	20 kW	0430-2300
13 882.5 Hz	DDK6	F1C	white +425 Hz / black -425 Hz	20 kW	0430-2300

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
AC*	44 N 116 W, 44 N 136 E; 44 N 45 W, 44 N 65 E	Stereographic	1:67.000.000 (A4)
AC1*	11 N 125 W, 11 N 145 E; 11 N 35 W, 11 N 55 E	Stereographic	1:44.000.000 (A3)
BQ1	58°N-08°E; 58°N-16°E; 53°N-08°E; 53°N-16°E	Stereographic	
BQ1	58 N 08 E, 58 N 16 E; 53 N 08 E, 53 N 16 E	Stereographic	
BQ2	66°N-12°E; 66°N-30°E; 57°N-12°E; 57°N-30°E	Mercator	
BQ2	66 N 12 E, 66 N 30 E; 57 N 12 E, 57 N 30 E	Mercator	
BQ3	58°N-08°E; 58°N-22°E; 54°N-08°E; 54°N-22°E	Mercator	
BQ3	58 N 08 E, 58 N 22 E; 54 N 08 E, 54 N 22 E	Mercator	
EN	62°N-04°W; 62°N-12°E; 50°N-04°W; 50°N-12°E	Stereographic	1: 2.000.000 scale indications refer to 60°N latitude
EN	60 N 09 W, 62 N 12 E; 50 N 04 W, 51 N 12 E	Stereographic	1: 2.000.000
NA	43 N 67 W, 61 N 79 E; 19 N 27 W, 27 N 33 E	Stereographic	1:20.000.000 (A3); 1:15.000.000 (A2)
NA	43°N-67°W; 61°N-79°E; 19°N-27°W; 27°N-33°E	Stereographic	1: 20.000.000 (A3)scale indications refer to 60°N latitude
NT1	38°N-100°W; 60°N-36°E;14°N-17°W;21°N-13°W	Mercator	1: 15.000.000
NT1	41 N 114 W, 60 N 36 E; 14 N 70 W, 21 N 13 W	Stereographic	1:15.000.000
NT2	60°N-65°W;60°N-38°W; 40°N-65°W; 40°N-38°W	Mercator	
NT3	53 N 70 W, 52 N 26 W; 36 N 63 W, 36 N 33 W	Stereographic	
NT3	52°N-110°W;61°N-34°E; 07°N-57°W; 09°N-18°W	Stereographic	15.000.000 scale indications refer to 60°N latitude
NT4	57°N-96°W; 71°N-71°E; 38°N-48°W; 46°N-13°E	Stereographic	10.000.000 scale indications refer to 60°N latitude
NT4	48 N 117 W, 63 N 42 E; 05 N 63 W, 10 N 18 W	Stereographic	1:15.000.000

GERMANY

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0430(00)	QPOA89	EDZW	Surface weather chart (1)	NA	120/576
0500(00)*	PPNE98	EDZW	H+00, H+24 (GME) MSL pressure, wind (10 m)	AC	120/576
0512(18)	PPOF89	EDZW	H+30 (GME) MSL pressure (1)	NA	120/576
0525(00)	QPYA89	EDZW	MSL pressure analysis, arrows showing the movement of pressure systems, significant weather, ice	NT1	120/576
0546(03)	PLNT98	EDZW	Information of tropical storms, North Atlantic (during the season)		120/576
0559(00)	PHOE50	EDZW	H+12, H+24 (GME) 500 hPa H+T, MSL pressure	NA	120/576
0612(00)	PROE70	EDZW	H+12, H+24 (GME) 850 hPa T, 700 hPa U	NA	120/576
0625(00)	PHOI50	EDZW	H+36, H+48 (GME) 500 hPa H+T, MSL pressure	NA	120/576
0638(00)	PROI70	EDZW	H+36, H+48 (GME) 850 hPa T, 700 hPa U	NA	120/576
0651(00)	PHOK50	EDZW	H+60, H+72 (GME) 500 hPa H+T, MSL pressure	NA	120/576
0704(00)	PROK70	EDZW	H+60, H+72 (GME) 850 hPa T, 700 hPa U	NA	120/576
0717(18)	PPOF89	EDZW	Repetition chart 0512 UTC (1)	NA	120/576
0730(00)	PPOI89	EDZW	H+48 (GME) MSL pressure (1)	NA	120/576
0742(00)	QPYA89	EDZW	Repetition chart 0525 UTC	NT1	120/576
0804(00)	PPOL89	EDZW	H+84 (GME) MSL pressure (1)	NA	120/576
0817(00)	PPON89	EDZW	H+108 (GME) MSL pressure (1)	NA	120/576
0830(00)	PJXE88	EDZW	H+24 (GSM) Sea and swell, Wind (10 m)	NA	120/576
0830(00)*	PHNA50	EDZW	Analysis (GME) 500 hPa H	AC1	120/576
0842(00)	PJXI88	EDZW	H+48 (GSM) Sea and swell, Wind (10 m)	NA	120/576
0842(00)*	PPNI98	EDZW	H+36, H+48 (GME) MSL pressure, wind (10 m)	AC	120/576
0854(00)	PJXK88	EDZW	H+72 (GSM) Sea and swell, Wind (10 m)	NA	120/576
0854(00)*	PRNE85	EDZW	H+24 (GME) 850 hPa, 700 hPa U	AC	120/576
0906(00)	PJXM88	EDZW	H+96 (GSM) Sea and swell, Wind (10 m)	NA	120/576
0906(00)*	PRNG85	EDZW	H+36 (GME) 850 hPa, 700 hPa U	AC	120/576
0918(00)*	PPNM98	EDZW	H+72, H+96 (GME) MSL pressure, wind (10 m)	AC	120/576

GERMANY

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0930(00)	PIAA88	EDZW	Ice Chart northwesternpart atlantik	NT2/NT3	120/576
0930(00)*	PJXE88	EDZW	H+24 (GSM) sea and swell, wind direction, direction of swell	NA	120/576
0945(00)	QTUA88	EDZW	Sea surface temperature North Sea 3)	EN	120/576
1004(00)*	PJXI88	EDZW	H+48 (GSM) sea and swell, wind direction, direction of swell	NA	120/576
1007(00)	QIMA88	EDZW	Ice condition Chart Western Baltic (3) (4)	BQ1	120/576
1016(00)*	PJXK88	EDZW	H+72 (GSM) sea and swell, wind direction, direction of swell	NA	120/576
1029(00)	QJOI88	EDZW	H+48 wave prediction	NT4	120/576
1050(06)	QPOA89	EDZW	Surface weather chart	NA	120/576
1111	QZZZ93	EDZW	Transmission schedule		120/576
1132	PZZZ91	EDZW	Test chart		120/576
1145(06)	QPOA89	EDZW	Repetition chart 1050 UTC	NA	120/576
1205(18)	PPOF89	EDZW	Repetition chart 0512 UTC	NA	120/576
1206(00)*	PJXM88	EDZW	H+96 (GSM) sea and swell, wind direction, direction of swell	NA	120/576
1219(00)*	PIAA88	EDZW	Ice conditions chart North-West Atlantic (2)	NT2,NT3	120/576
1220(00)	PPOI89	EDZW	Repetition chart 0730 UTC	NA	120/576
1232(00)*	QIMA88	EDZW	Ice conditions chart West Baltic Sea (4)(5)	BQ1	120/576
1520(09)	QIMA88	EDZW	Ice conditions chart West Baltic Sea (4)(5) or special area (3)(4)	BQ2	120/576
1520(09)	QIXA88	EDZW	Ice conditions chart West Baltic Sea (4)(5) or special area (3)(4)	XX1	120/576
1540(09)	QIYA88	EDZW	Ice conditions chart Arctic Sea	XX2	120/576
1540(09)	QIYA88	EDZW	Ice conditions chart Southern Baltic Sea	BQ3	120/576
1600(12)	QPOA89	EDZW	Surface weather chart (1)	NA	120/576
1800(12)	QPYA89	EDZW	MSL pressure analysis, arrows showing the movement of pressure systems, significant weather, ice	NT1	120/576
1821(15)	PLNT98	EDZW	Information of tropical storms, North Atlantic (during the season)		120/576
1834(12)	PPOE89	EDZW	H+24 (GME) MSL pressure (1)	NA	120/576
1847(12)	PPOI89	EDZW	H+48 (GME) MSL pressure (1)	NA	120/576
1900(12)	PPOL89	EDZW	H+84 (GME) MSL pressure (1)	NA	120/576
1913(12)	PJXE88	EDZW	H+24 (GSM), Sea and swell, Wind (10 m)	NA	120/576

GERMANY

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1913(12)*	PPNE98	EDZW	H+00, H+24 (GME) MSL pressure, wind (10 m)	AC	120/576
1926(12)	PJXI88	EDZW	H+48 (GSM), Sea and swell, Wind (10 m)	NA	120/576
1926(12)*	PHNA50	EDZW	Analysis (GME) 500 hPa H	AC1	120/576
1939(12)	PJXK88	EDZW	H+72 (GSM), Sea and swell, Wind (10 m)	NA	120/576
1939(12)*	PPNI98	EDZW	H+36, H+48 (GME) MSL pressure, wind (10 m)	AC	120/576
1948(12)*	PRNE85	EDZW	H+24 (GME) 850 hPa, 700 hPa U	AC	120/576
2000(12)*	PRNG85	EDZW	H+36 (GME) 850 hPa, 700 hPa U	AC	120/576
2012(12)*	PPNM98	EDZW	H+72, H+96 (GME) MSL pressure, wind (10 m)	AC	120/576
2024(12)*	PJXE88	EDZW	H+24 (GSM) sea and swell, wind direction, direction of swell	NA	120/576
2036(12)*	PJXI88	EDZW	H+48 (GSM) sea and swell, wind direction, direction of swell	NA	120/576
2048(12)*	PJXK88	EDZW	H+72 (GSM) sea and swell, wind direction, direction of swell	NA	120/576
2100(12)	PIAA88	EDZW	Ice conditions chart North-West Atlantic (2)	NT2, NT3	120/576
2115(15)	QIMA88	EDZW	Ice conditions chart West Baltic Sea (4)(5)	BQ2	120/576
2137(12)	QJOI88	EDZW	H+48 wave prediction	NT4	120/576
2200(18)	QPOA89	EDZW	Surface weather chart (1)	NA	120/576

Footnotes:

* If required during the arctic summer times.

- (1) If the manually modified chart is not available then the automatically processed chart will be broadcast where the heading "ii" = "98" in–stead of "ii" = "89"
- (2) Issued by: Canadian Ice Service Ottawa or USCG International Ice Patrol
- (3) Issued by: "Bundesamt fuer Seeschiffahrt und Hydrographie"
- (4) Irregularly, only if required because of the ice conditions
- (5) Rebroadcast of Norrkoping (ESWI) transmissions

Notes:

Abbreviations used in column 'Contents' have the following meaning:

GME = Global model (31 layers, 60 km)

H = Contour lines (gpdam)

MSL = Mean sea level

T = IsothermC

U = Relative humidity (%)

Web Link: <http://www.dwd.de/de/wir/Geschaeftsfelder/Seeschiffahrt/Sendeplaene/Sendeplaene.htm>

GREECE**Station Name:** Olympia Radio**Region:** VI**Position:****METAREA:** III**Area of reception:** Europe - Mediterranean**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
4 471 kHz	SVJ	F3C	white +350 Hz, black -350 Hz	5 kW	All broadcast times
8 105 kHz	SVJ	F3C	white +350 Hz, black -350 Hz	5 kW	All broadcast times

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	Central and South Europe, Mediterranean: 55°N-13°W; 46°N-45°E; 31°N-09°W; 27°N-31°E	Polar stereographic	
B	Mediterranean and Black Sea: 52°N-02°W; 44°N-44°E; 33°N-01°W; 25°N-31°E	Polar stereographic	

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0845		LGAT	Surface analysis		120/576
0857		LGAT	Surface prognosis (+24h)		120/576
0907		LGAT	Surface prognosis (+48h)		120/576
0921		LGAT	Wave height prognosis (+30h)		120/576
0933		LGAT	Wave height prognosis (+36h)		120/576
0956		LGAT	Wave height prognosis (+42h)		120/576
0957		LGAT	Wave height prognosis (+48h)		120/576

Web Link: --

INDIA**Station Name:** New Delhi**Region:** II**Position:****METAREA:** VIII(N)**Area of reception:** Region II (Asia) (SEE MAP)**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
7 404.9 kHz	ATP 57	B9W	white +400 Hz, black -400 Hz	10 kW	1430-0230
14 842.0 kHz	ATP 65	B9W	white +400 Hz, black -400 Hz	10 kW	0230-1430

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	45°N-30°E; 45°N-125°E; 25°S-30°E; 25°S-125°E	Mercator	1: 20.000.000
B	40°N-30°E; 40°N-125°E; 0°-30°E; 0°-125°E	Mercator	1: 20.000.000
E	60°N-25°E; 60°N-120°E; 0°-25°E; 0°-120°E	Mercator	1: 20.000.000
F	25°N-55°E; 25°N-100°E; 0°-55°E; 0°-100°E	Mercator	1: 20.000.000
H	67.5°N-0°; 67.5°N-180°E; 15°S-0°; 15°S-180°E	Mercator	1: 20.000.000

INDIA

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0011(18) 0634(00) 1820(12) 1211(06)		DEMS	Surface analysis	A	120/576
0030(12) 1230(00)		DEMS	24 hour 250 hPa wind & temperature prognosis	H	120/576
0050(12) 1248(00)		DEMS	24 hour 500 hPa wind & temperature prognosis	H	120/576
0110(12) 1306(00)		DEMS	24 hour 850 hPa wind & temperature prognosis	H	120/576
0130(18)		DEMS	Significant weather prognosis for period 0300-1500	B	120/576
0150(12)		DEMS	ECMWF(1) 96 hour 500 hPa forecast	A	120/576
0210(12) 1400(00)		DEMS	24 hour 400 hPa wind & temperature forecast	H	120/576
0238(12) 1342(00)		DEMS	24 hour 300 hPa wind & temperature forecast	H	120/576
0300(12) 1506(00)		DEMS	24 hour 700 hPa wind & temperature forecast	H	120/576
0320(12) 1430(00)		DEMS	24 hour 200 hPa wind & temperature forecast	H	120/576
0340(12) 1448(00)		DEMS	24 hour 150 hPa wind & temperature forecast	H	120/576
0400(12)		DEMS	ECMWF(1) 48 hour 200 hPa wind forecast	A	120/576
0420(12)		DEMS	ECMWF(1) 72 hour 500 hPa forecast	A	120/576
0440		DEMS	7 day mean Sea Surface Temperature	F	120/576
0600(12)		DEMS	Infra-red satellite image	F	120/576
0622 1810		DEMS	Test chart	-	120/576
0654(00) 1910(12)		DEMS	850 hPa upper air analysis	A	120/576
0714(00) 1928(12)		DEMS	700 hPa upper air analysis	A	120/576
0734(00) 1946(12)		DEMS	500 hPa upper air analysis	A	120/576
0753(00) 2004(12)		DEMS	300 hPa upper air analysis	A	120/576
0812(00) 2022(12)		DEMS	Surface prognosis	A	120/576
0834(00)		DEMS	Significant weather prognosis for period 0900-2100	B	120/576
0856(00) 2100(12)		DEMS	200 hPa upper air analysis	A	120/576
0916(00) 2118(12)		DEMS	850-500 hPa thickness	A	120/576
0936(00) 2223(12)		DEMS	500 hPa upper air prognosis	A	120/576
1005(00) 2205(12)		DEMS	Digital significant weather received from Tokyo	-	120/576

INDIA

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1025(00) 2241(12)		DEMS	300 hPa upper air prognosis	A	120/576
1055(00) 2259(12)		DEMS	250 hPa upper air prognosis	A	120/576
1115(00) 2317(12)		DEMS	200 hPa upper air prognosis	A	120/576
1135(00) 2335(12)		DEMS	Tropopause/maximum wind prog	A	120/576
1153(00) 2353(12)		DEMS	100 hPa upper air prognosis	A	120/576
1324(06)		DEMS	Significant weather prognosis for period 1500-0300	B	120/576
1342(00)		DEMS	24 hour 300 hPa wind & temperature prog	H	120/576
1430(00)		DEMS	24 hour 200 hPa wind & temperature prog	H	120/576
1448(00)		DEMS	24 hour 150 hPa wind & temperature prog	H	120/576
1506(00)		DEMS	24 hour 700 hPa wind & temperature forecast	H	120/576
1840(12)		DEMS	850 hPa relative vorticity	E	120/576
2040(12)		DEMS	Significant weather prognosis for period 2100-0900	-	120/576
2136(12)		DEMS	500 hPa relative vorticity	E	120/576

Notes:

(a) Carrier Frequency is 1.9 kHz below the assigned frequency.

(b) Reported inoperative (Jan 2004).

(1) ECMWF = European Centre for Medium-range Weather Forecasts.

Web Link: --

JAPAN**Station Name:** Kagoshima**Region:** II**Position:****METAREA:** XI**Area of reception:** 90°N,40°E - 10°S,40°E - 10°S,130°W - 90°N,130°W**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
3 622.5 kHz	JMH	F3C	white +400 Hz, black -400 Hz	5 kW	H24
7 795 kHz	JMH 2	F3C	white +400 Hz, black -400 Hz	5 kW	H24
13 988.5 kHz	JMH 4	F3C	white +400 Hz, black -400 Hz	5 kW	H24

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A'	38°12'N- 85°54'E; 50°36'N-177°12'E 12°24'N-110°42'E; 17°24'N-157°12'E	Polar stereographic	1:25,000,000 true at 60°N (21 cm x 31 cm)
c	26°30'N- 62°00'E; 51°00'N-152°00'W 05°00'S-106°00'E; 02°00'N-160°00'E	Polar stereographic	1:42,000,000 true at 60°N (28cm x 34 cm)
C	26°30'N- 62°00'E; 51°00'N-152°00'W 05°00'S-106°00'E; 02°00'N-160°00'E	Polar stereographic	1:20,000,000 true at 60°N (46 cm x 56 cm)
C'	38°30'N- 65°30'E; 38°30'N-145°30'W 01°00'S-112°30'E; 01°00'S-167°00'E	Polar stereographic	1:20,000,000 true at 60°N (46 cm x 56 cm)
C"	37°30'N- 67°00'E; 39°00'N-147°36'W 01°00'S-112°24'E; 00°30'S-166°42'E	Polar stereographic	1:20,000,000 true at 60°N (46 cm x 56 cm)
C'2	22°48'N- 58°42'E; 22°48'N-138°42'W 10°42'S-107°12'E; 10°42'S-172°48'E	Polar stereographic	1:28,000,000 true at 60°N (46 cm x 56 cm)
k	60°00'N-100°00'E; 60°00'N-180°00'E 00°00'N-100°00'E; 00°00'N-180°00'E	Mercator	1:34,770,000 true at 35°N (46 cm x 49 cm)
L	Sea of Okhotsk; northern parts of Sea of Japan; Bo Hai; & adjacent waters of North Pacific	Polar stereographic	1:10,000,000 true at 60°N (46 cm x 28 cm)
L'	48°30'N-151°12'E; 49°12'N-140°00'E 40°24'N-149°12'E; 41°00'N-140°00'E	Polar stereographic	1:5,000,000 true at 60°N (21 cm x 30 cm)
X	47°00'N-116°36'E; 45°42'N-149°24'E 22°36'N-122°06'E; 22°00'N-141°36'E	Polar stereographic	1:6,000,000 true at 60°N (45 cm x 55 cm)

JAPAN

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0000(12)	FSAS07	RJTD	Retransmission of 2200	c	
0000(12)	FSAS04	RJTD	Retransmission of 2200	c	120/576
0020(12)	FSAS09	RJTD	96H Surface pressure, precipitation prog.	C	120/576
0040(12)	FSAS12	RJTD	120H Surface pressure, precipitation prog.	C	120/576
0103(12), 1303		RJTD	Test chart		120/576
0110(00), 1310(12)		RJTD	Meteorological satellite picture (MTSAT)	C'	120/576
0130	STPN	RJTD	Retransmission of 1019	L	120/576
0130(00)	FIOH04/16	RJTD	Retransmission of 1019	L'	
0150 (00)(1), 1350 (12)(1)	WTAS07	RJTD	Tropical cyclone forecast	C'2	120/576
0210 (2)	SOPQ	RJTD	Sea surface current, water temperature at 100m depth	k	120/576
0229 (3)		RJTD	Radio prediction		120/576
0240(00), 1440(12)	ASAS	RJTD	Surface anal.	C'2	120/576
0300 (2)	COPQ1	RJTD	Sea surface water temp.	k	120/576
0320(00)	ASAS	RJTD	The first retransmission of 0240	C'2	120/576
0340	MANAM	RJTD	JMH broadcast schedule and manual amendments		120/576
0400(00)(6), 1540(12)(6)	WTAS12	RJTD	Tropical cyclone forecast	C'2	120/576
0421(00)	AWPN	RJTD	Ocean wave anal.	C''	120/576
0440(00), 1719 (12)	AWJP	RJTD	Coastal wave anal.	X	120/576
0459(00), 1640(12)	AUAS50	RJTD	500hPa height, temp.	C	120/576
0518(00), 1700(12)	AUAS85	RJTD	850hPa height, temp., dew point depression	C	120/576
0537(00)	FSFE02	RJTD	24H Surface pressure, precipitation prog.	A'	
0537(00), 1739(12)	FUF502	RJTD	24H 500hPa height, vorticity prog.	A'	120/576
0548(00)	FSAS24	RJTD	24H Surface pressure, wind, fog, icing, sea ice prog.	C'2	120/576
0610(00)(1)	WTAS07	RJTD	Retransmission of 0150	C'2	120/576
0630(00)	FSAS07	RJTD	72H Surface pressure, precipitation prog.	c	
0630(00)	FSAS04	RJTD	48H Surface pressure, precipitation prog.	c	120/576

JAPAN

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0651(00)	FWPN	RJTD	24H Ocean wave prog.	C"	120/576
0710(06), 1910(18)		RJTD	Meteorological satellite picture (MTSAT)	C'	120/576
0730(00)	FWJP	RJTD	24H Coastal wave prog.	X	120/576
0750 (06)(1), 1950 (18)(1)	WTAS07	RJTD	Tropical cyclone forecast	C'2	120/576
0809(00)	FUFE503	RJTD	36H 500hPa height, vorticity prog.	A'	120/576
0809(00), 1810(12)	FSFE03	RJTD	36H Surface pressure, precipitation prog.	A'	
0820(00), 2100(12)	FSAS48	RJTD	48H Surface pressure, wind, icing, sea ice prog.	C'2	120/576
0840(06), 2040(18)	ASAS	RJTD	Surface anal.	C'2	120/576
0900(06)(6), 2140(18)(6)	WTAS12	RJTD	Tropical cyclone forecast	C'2	120/576
0920(06)	ASAS	RJTD	The first retransmission of 0840	C'2	120/576
0940(00)	FSAS07	RJTD	Retransmission of 0630	c	
0940(00)	FSAS04	RJTD	Retransmission of 0630	c	120/576
1000(00)	FSAS48	RJTD	Retransmission of 0820	C'2	120/576
1019 (4)	STPN	RJTD	Sea ice condition (seasonal)	L	120/576
1019(00)(5)	FIOH04/16	RJTD	48H and 168H Sea ice condition prog. (seasonal)	L'	
1040(00)	FSAS24	RJTD	Retransmission of 0548	C'2	120/576
1100(00)	AWPN	RJTD	Retransmission of 0421	C"	120/576
1119(00)	AWJP	RJTD	Retransmission of 0440	X	120/576
1140(00)	FWPN	RJTD	Retransmission of 0651	C"	120/576
1200(06)(1)	WTAS07	RJTD	Retransmission of 0750	C'2	120/576
1220(00)	FWPN07	RJTD	72H Ocean Wave prog.	C"	120/576
1240(00)	FXFE572	RJTD	24H 500hPa temp., and 700hPa dew point depression prog.	A'	120/576
1240(00)	FXFE782	RJTD	24H 850hPa temp., wind and 700hPa vertical P-velocity prog.	A'	
1251(00)	FXFE573	RJTD	36H 500hPa temp., and 700hPa dew point depression prog.	A'	120/576
1251(00)	FXFE783	RJTD	36H 850hPa temp., wind and 700hPa vertical P-velocity prog.	A'	
1330(00)	FWJP	RJTD	Retransmission of 0730	X	120/576
1420 (2)	SOPQ	RJTD	Retransmission of 0210	k	120/576

JAPAN

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1520(12)	ASAS	RJTD	The first retransmission of 1440	C'2	120/576
1600(2)	COPQ1	RJTD	Retransmission of 0300	k	120/576
1620(12)	AWPN	RJTD	Ocean wave anal.	C''	120/576
1739(12)	FSFE02	RJTD	24H Surface pressure, precipitation prog.	A'	
1750(12)(1)	WTAS07	RJTD	Retransmission of 1350	C'2	120/576
1810(12)	FUFE503	RJTD	36H 500hPa height, vorticity prog.	A'	120/576
1821(12)	FXFE572	RJTD	24H 500hPa temp., and 700hPa dew point depression prog.	A'	120/576
1821(12)	FXFE782	RJTD	24H 850hPa temp., wind and 700hPa vertical P-velocity prog.	A'	
1832(12)	FXFE783	RJTD	36H 850hPa temp., wind and 700hPa vertical P-velocity prog.	A'	
1832(12)	FXFE573	RJTD	36H 500hPa temp., and 700hPa dew point depression prog.	A'	120/576
1850(12)	FWPN07	RJTD	12, 24, 48, 72H Ocean Wave prog.	C''	120/576
1930(12)	FSAS24	RJTD	24H Surface pressure, wind, fog, icing, sea ice prog.	C'2	120/576
2010(12)	FWJP	RJTD	24H Coastal Wave prog.	X	120/576
2120(18)	ASAS	RJTD	The first retransmission of 2040	C'2	120/576
2200(12)	FSAS04	RJTD	48H Surface pressure, precipitation prog.	c	120/576
2200(12)	FSAS07	RJTD	72H Surface pressure, precipitation prog.	c	
2220(12)	FWPN	RJTD	24H Ocean Wave prog.	X	120/576
2240(18)(1)	WTAS07	RJTD	Retransmission of 1950	C'2	120/576
2300(12)	FSAS24	RJTD	Retransmission of 1930	C'2	120/576
2320(12)	AWJP	RJTD	Retransmission of 1719	X	120/576
2340(12)	FSAS48	RJTD	Retransmission of 2100	C'2	120/576

JAPAN

NOTES:

1. Alternating black and white signals with frequency of 300 Hz will be transmitted for 10 seconds prior to the phasing signal.
2. Phasing signals will be transmitted for 30 seconds prior to transmission of each chart.
3. Stop signals will be transmitted for 20 seconds after transmission of each chart.

- (1) In case of tropical cyclone.
- (2) Every Tuesday and Friday.
- (3) On the 20th and 21st of each month.
- (4) Every Tuesday and Friday (seasonal). Retransmission: at 0130 on the next day.
- (5) Every Wednesday and Saturday (seasonal). Retransmission : at 0130 on the next day.
- (6) If a tropical cyclone is expected to exist in 4 days.

Web Link: <http://www.jma-net.go.jp/common/177jmh/JMH-ENG.pdf>

KENYA**Station Name:** Nairobi**Region:** I**Position:****METAREA:** VIII(S)**Area of reception:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
9 043 kHz	5YE 1	F3C	white/black +or- 400 Hz	10 kW	H24
17 445.6 kHz	5YE 2	F3C	white/black +or- 400 Hz	10 kW	H24

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	30°N-30°S; 05°W-70°E	Mercator	1: 15.000.000 at 22°30'
B	55°N-35°S; 20°W-90°E		1: 25.000.000 at 22°30'
C	22°N-02°S; 25°E-60°E		1: 7.500.000 at 22°30'
D	30°N-30°S; 15°E-70°E		1: 15.000.000 at 22°30'
E	20°N-30°S; 30°E-70°E		1: 15.000.000 at 22°30'

KENYA**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0010(12) 0600(18) 1037(00) 1742(06)		HKNC	Sigwx FL250	B	120/576
0100(00)		HKNC	Sigwx below FL240 (1200) - Form No. 585A	B	120/576
0140(12)		HKNC	Tabular forecast - Form No. 2053	B	120/576
0540(18) 2350(12)		HKNC	SIGWX FL100-250	B	120/576
0630 0645		HKNC	Climate outlook	-	120/576
0800(12)		HKNC	Sigwx below FL240 - Form No.585A	-	120/576
0830(8)		HKNC	Test chart	-	120/576
0844(00) 2055(12)		HKNC	FL180 prognostic	B	120/576
0903(00) 2114(12)		HKNC	FL300 prognostic	B	120/576
0922(00) 2133(12)		HKNC	FL340 prognostic	B	120/576
0941(00) 2152(12)		HKNC	FL390 prognostic	B	120/576
1017(00) 2350(12)		HKNC	Sigwx FL100-250	A	120/576
1057(06)		HKNC	Surface analysis	D	120/576
1112 1653(12)		HKNC	850 HPA upper-air analysis	B	120/576
1127(06) 1455(12)		HKNC	24-hour change of pressure	D	120/576
1142 1802(12)		HKNC	H+24 surface prognosis	B	120/576
1210 1820(12)		HKNC	FL100 upper-air analysis	D	120/576
1229 1839(12)		HKNC	FL180 upper-air analysis	D	120/576
1248 1858(12)		HKNC	FL300 upper-air analysis	D	120/576
1307 1917(12)		HKNC	FL340 upper-air analysis	D	120/576
1326 1936(12)		HKNC	FL390 upper-air analysis	B	120/576
1345(06) 1708(12)		HKNC	Indian Ocean analysis	E/B	120/576
1376(12) 1430(12)		HKNC	Low level convergence zone	C	120/576
1600(06)		HKNC	Sigwx FL250 (segment)	A	120/576
1638(12)		HKNC	Surface analysis	D	120/576

KENYA

NOTE

(a) Changes to the schedule will be transmitted at 0830 in place of the normal test chart

Within a radius of 3 000 miles from Nairobi

Web Link: --

NEW ZEALAND

Station Name: Wellington (Transmitting station: Auckland)

Region: V

Position:

METAREA: XIV

Area of reception: 30N - 60S, 140E - 120W

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
16 340.1 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	2145-0500
13 550.5 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	H24
9 459 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	H24
5 807 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	H24
3 247.4 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	0945-1700

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
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[SWP](#) SW Pacific

[TNZ](#) Tasman Sea - New Zealand

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TAAii	CCCC	Details of Chart	Map Area	Drum Speed
0000(00), 1200(12)		NZKL	Southwest Pacific 30 hour surface prognosis (MSL)	SWP	120/576
0100(00) 1300(12)		NZKL	Southwest Pacific 48 hour surface prognosis (MSL)	SWP	120/576
0200(00) 1400(12)		NZKL	Southwest Pacific 72 hour surface prognosis (MSL)	SWP	120/576
0300(00) 0900(06) 1600(12) 2100(18)		NZKL	TASMAN-NEW ZEALAND MSL analysis	TNZ	120/576
0400(00) 1000(06) 1600(12) 2200(18)		NZKL	Southwest Pacific MSL analysis	SWP	120/576
1100 2300		NZKL	Transmission schedule	-	-

Single transmitter used. Times reflect broadcast times at 5807 kHz

Add 15 minutes for 9459 kHz, 30 minutes for 13550.5 kHz and 45 minutes for 3247.4 and 16340.1 kHz

Web Link: --

REPUBLIC OF KOREA**Station Name:** Meteorological Radio Transmission Station**Region:** II**Position:****METAREA:** XI**Area of reception:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
5 857.5 kHz	HLL2	F3C	white +400 Hz, black -400 Hz	3 kW	24H
3 585 kHz	HLL2	F3C	white +400 Hz, black -400 Hz	3 kW	1200-0000
7 433.5 kHz	HLL2	F3C	white +400 Hz, black -400 Hz	3 kW	24H
13 570 kHz	HLL2	F3C	white +400 Hz, black -400 Hz	3 kW	0000-1200
9 165 kHz	HLL2	F3C	white +400 Hz, black -400 Hz	3 kW	24H

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	1.1N, 84E; 39.7N, 41.9E; 6.5N, 156.8E; 55.1N, 199.4E	Lambert Conformal Conic	
B	16.3N, 100.7E; 49.5N, 82.6E; 17.8N, 145.5E; 52.4N, 160.4E	Lambert Conformal Conic	
C	20N-50N; 115-150E	Lambert Conformal Conic	

REPUBLIC OF KOREA

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0000-0030; 0600-0630; 1200-1230; 1500-1530, 1800-1830		RKSL	Special weather report	-	120/576
0033-0046; 1233-1246; 1833-1846		RKSL	Sea-shore weather observation report	-	120/576
0047-0200; 0647-0700, 1247-1300; 1847-1900		RKSL	Fishery weather observation report	-	120/576
0100-0113		RKSL	MANAM	-	120/576
0133-0146; 0333-0346; 0633-0646		RKSL	Lighthouse weather observation report	-	120/576
0147-0200; 0447-0500; 0747-0800; 1047-1100, 1347-1400; 1647-1700; 1947-2000; 2247-2300		RKSL	Surface analysis Far East	B	120/576
0200-0213; 0800-0813; 1400-1413; 2000-2013		RKSL	Warning typhoon report (1)	-	120/576
0214-0230; 0814-0828; 2014-2030		RKSL	General weather conditions report	-	120/576
0314-0327; 0914-0927; 1547-1600; 2114-2127		RKSL	Lighthouse sign weather observation report	-	120/576
0400-0411; 1600-1611		RKSL	Surface analysis Asia	A	120/576
0500-0512; 1700-1712		RKSL	500 hPa upper-air weather chart	A	120/576
0513-0525; 1713-1725		RKSL	850 hPa upper-air weather chart	A	120/576
0526-0538; 1726-1738		RKSL	700 hPa upper-air weather chart	A	120/576
0539-0551; 1739-1751		RKSL	300 hPa upper-air weather chart	A	120/576
0700-0713; 1900-1913		RKSL	Wave height and sea surface wind forecast (12 hour)	C	120/576
0714-0727; 1914-1927		RKSL	Wave height and sea surface wind forecast (24 hour)	C	120/576
0728-0741; 1928-1941		RKSL	Wave height and sea surface wind forecast (36 hour)	C	120/576
0828-0845; 1530-1547		RKSL	SST observation chart of near Korean peninsula area (7 day average)	-	120/576
0846-0900; 2046-2100		RKSL	Main sea-shore weather forecast for ship route	-	120/576
0900-0913; 2100-2113		RKSL	Sea forecast	-	120/576
0933-0946; 2133-2146		RKSL	Lighthouse weather observation report (3)	-	120/576
0947-1000; 2147-2200		RKSL	Weekly sea weather forecast	-	120/576
2233-2246		RKSL	Lighthouse weather observation report (2)	-	120/576

REPUBLIC OF KOREA

NOTES:

1. In case of typhoon.
2. November to April.
3. May to September.
4. Alternating black and white signals with frequency of 300 hz will be transmitted for 10 seconds prior to the phasing signal.
5. Phasing signals will be transmitted for 30 seconds prior to transmission of each chart.
6. Stop signals will be transmitted for 15 seconds after each transmission.
7. "Tsunami warning" is broadcast without delay.

Web Link: --

RUSSIAN FEDERATION (EUROPE)

Station Name: Murmansk

Region: VI

Position:

METAREA: I

Area of reception: Arctic Coast - North Atlantic to Barents Sea. Basic coverage area is for Barents Sea.

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
7 907 kHz		F3C	-	-	1900-0600
8 444 kHz		F3C	-	-	
6 446 kHz		F3C	-	-	H24

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	67°N 032°W, 53°N 047°E, 72°N 074°E, 51°N 004°W		1: 5,000,000
B	79°N 010°E, 74°N 010°E, 79°N 040°E, 74°N 040°E	Mercator	1: 3,000,000
C	78°N 010°E, 66°N 010°E, 78°N 070°E, 66°N 070°E	Mercator	1: 5,000,000

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0700(00)		RUMS	36 hour surface prognosis	A	120/576
0800(06)		RUMS	Sea state analysis	C	120/576
1400(12)		RUMS	Analysis of iceberg positions for past 24 hours	C	120/576
1400(12)		RUMS	Surface temperature analysis / Iceberg positions	B	120/576
1430(12)		RUMS	24 hour sea state prognosis	C	120/576
1850		RUMS	Broadcast schedule	-	90/576
2000		RUMS	Iceberg prognosis	-	120/576

(1) Basic coverage area is for Barents Sea.

Web Link: --

RUSSIAN FEDERATION (IN ASIA)

Station Name: Pevek

Region: II

Position:

METAREA: XXI

Area of reception: Arctic Coast

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
148 kHz	-	F3C	-	-	H24

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0530-0730		RUMS	Ice	-	90/576
1130-1330		RUMS	Ice	-	90/576
1430-1630		RUMS	Ice	-	90/576

Web Link: --

SENEGAL

Station Name: Dakar

Region: I

Position: 14°45'N 017°17'W

METAREA: II

Area of reception: 35°N-15°S, 30°E-30°W (SEE MAP)

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
13 667.5 kHz	6VU	F3C	-	10 kW	H24
19750 kHz	6VU	F3C	white +400 Hz, black -400 Hz	10 kW	H24
4 790.5 kHz	6VU	F3C	white +400 Hz, black -400 Hz	5 kW	H24

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	35°N.35°W; 35°N.22°30'E; 0°.35°W; 0°.22°30'E	Mercator	1: 15.000.000
B	55°N.30°W; 55°N.40°E; 55°S.30°W; 5°S.40°E	Mercator	1: 15.000.000
C	40°N.3°W; 40°N.33°E; 20°S.30°W; 20°N.33°E	Mercator	1: 20.000.000

SENEGAL

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0100(12), 1300(00)		GOOY	18 hour significant weather prog	B	60/576
0340(00)		GOOY	Test chart	A	120/576
0400(00), 1600(12)		GOOY	Surface analysis	A	120/576
0445(00), 1645(12)		GOOY	850 hPa analysis	A	120/576
0500(00), 1700(12)		GOOY	700 hPa analysis	A	120/576
0515(00), 1715(12)		GOOY	300 hPa analysis	A	120/576
0530(00), 1730(12)		GOOY	250 hPa analysis	A	120/576
0545(18), 1745(06)		GOOY	18 hour significant weather prog	C	60/576
0615(00), 1815(12)		GOOY	200 hPa analysis	A	120/576
0630(00), 1830(12)		GOOY	500 hPa analysis	A/B	120/576
0700(18), 1900(06)		GOOY	18 hour significant weather prog	B	60/576
0740, 1940		GOOY	Test chart 120/576	B	-
0820(00) 2020(12)		GOOY	24 hour upper-air prognosis (FL 180)	B	120/576
0840(00) 2040(12)		GOOY	24 hour upper-air prognosis (FL 300)	B	120/576
0900(00), 2100(12)		GOOY	24 hour upper-air prognosis (FL 340)	B	120/576
0920(00), 2120(12)		GOOY	24 hour upper-air prognosis (FL 390)	B	120/576
0940(00), 2140		GOOY	Test chart	-	120/576
1000(06, 2200(18)		GOOY	Surface analysis	A	120/576
1040, 2240		GOOY	Test chart	-	120/576
1145(00), 2345(12)		GOOY	18 hour significant weather prog	C	60/576
1240		GOOY	Test chart	C	120/576

Web Link: --

SOUTH AFRICA

Station Name: Cape Naval (NAVCOMCEN Cape)

Region: I

Position:

METAREA: VII

Area of reception:

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
13 538 kHz	ZSJ	F3C	-	10 kW	H24
18 238 kHz	ZSJ	F3C	-	10 kW	0600-1600
4 014 kHz	ZSJ	F3C	-	10 kW	1600-0600
7 508 kHz	ZSJ	F3C	-	10 kW	H24

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
AIAA	30°E to 30°W; Antarctic coast to edge of Pack Ice	Polar stereographic	
ASZA	0°.20°W; 0°.70°E; 60°S.50°W; 60°S.90°E (Shipping chart)	Lambert's Conical Orthomorphic	
FSZA/FUZA	05°S.15°W; 05°S.60°E; 60°S.15°W; 60°S.60°E (forecast area for numerical model)	Mercator	

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0430		FAPR	Schedule	-	120/576
0500(00) 1530(12)		FAPR	Surface analysis (shipping)	ASZA	120/576
0630(12)		FAPR	Upper-air prognosis (previous day's run)	FUZA	120/576
0730(12)		FAPR	Surface prognosis (previous day's run)	FSZA	120/576
0800		FAPR	Antarctic ice limits. Information updated every two weeks from the National Icenter Centre (US) (1).	AIAA	120/576
0930 1700		FAPR	RTTY (Radio-telex) forecast for the coastal waters and synopsis forecasts for the high seas.	-	-
1030(06) 2230(18)		FAPR	Surface analysis (shipping)	ASZA	120/576
1100(00)		FAPR	Surface prognosis	FSZA	120/576

Note: Due to operational requirements, broadcasts may be adjusted without notification.

(1) Only broadcast between October and March.

Web Link: <http://www.weathersa.co.za/Marine/FrequencyShipFCBroadcast.jsp>

THAILAND**Station Name:** Bangkok (Nonthaburi) Meteorological**Region:** II**Position:****METAREA:** XI**Area of reception:** West Pacific Sea of Japan. Gulf of Thailand, West coast of southern Thailand, Strait of Malacca and South China Sea (see map)**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
7 395 kHz	HSW64	3J3	± 3kHz	10 kW	

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	50°N-45°E; 50°N-160°E; 30°S-45°E; 30°S-160°E	Mercator	1: 20.000.000

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TAAii	CCCC	Details of Chart	Map Area	Drum Speed
0050		VTBB	Test chart	A	120/576
0100(00) 0400(03) 0700(06) 1000(09) 1300(112) 1700(17) 2300(17)		VTBB	Forecast for shipping in English plain language	A	120/576
0120(12)		VTBB	Surface pressure forecast based on ECMF 1200	A	120/576
0140(18) 0500(00) 1020(06) 1720(12) 2320(18)		VTBB	Surface analysis	A	120/576
0200		VTBB	Broadcast schedule	A	120/576
0300(12) 0720(12)		VTBB	24 hour surface pressure forecast	A	120/576
0320(12) 0740(12)		VTBB	48 H surface pressure forecast based on ECMF 1200	A	120/576
0340(12)		VTBB	72 H surface pressure forecast based on ECMF 1200	A	120/576
0420(12) 0820(12)		VTBB	24 H 850 hPa (wind/temp) forecast based on ECMF 1200	A	120/576
0520(00)		VTBB	850 hPa analysis	A	120/576
0540(00)		VTBB	700 hPa analysis	A	120/576
0600(00)		VTBB	500 hPa analysis	A	120/576
0800(12)		VTBB	72 hour surface pressure forecast	A	120/576

Web Link: --

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Station Name: Northwood

Region: VI

Position:

METAREA: I

Area of reception: North Atlantic (Central and Eastern areas), North-west Europe and the Mediterranean area

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

	Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
Gulf	18 261 kHz	GYA	-	-	-	0800-1800
North Atlantic	2 618.5 kHz	GYA	-	-	-	2000-0600
North Atlantic	4 610 kHz	GYA	-	-	-	H24
North Atlantic	8 040 kHz	GYA	-	-	-	H24
North Atlantic	11 086.5 kHz	GYA	-	-	-	0600-2000
Gulf	6 834 kHz	GYA GYA GYA	-	-	-	1800-0800

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	54°N-82°W; 26°N-45°W; 54°N.51°E; 285°N-12°E	North Atlantic	
B	40°30'N-15°30'E; 40°30'N-80°E; 3°N-15°30'E; 3°N-80°E	Gulf	

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0000(18), 1200(06)		EGRR	Surface analysis	A	120/576
0012(18), 1212(06)		EGRR	24 hour surface prognosis	A	120/576
0024(18), 1224(06)		EGRR	24 hour 850 hPa WBPT/PPTN	A	120/576
0036(18), 1236(06)		EGRR	24 hour air temperature / dew point	A	120/576
0048(12), 1248(00)		EGRR	Ship Ice Accretion	A	120/576
0100, 1300		EGRR	Schedule	A	120/576
0106, 1306		EGRR	Schedule	B	120/576
0118 1318		EGRR	Request for reception quality reports	B	120/576
0124 1324		EGRR	Request for reception quality reports	A	120/576
0136, 1336		EGRR	Ocean fronts	A	120/576
0142		EGRR	Symbology	B	120/576
0148(18), 1348(06)		EGRR	300 hPa geopotential height analysis	A	120/576
0212		EGRR	Symbology	A	120/576
0236(00), 1436(12)		EGRR	Surface analysis	A	120/576
0300(00), 1500(12)		EGRR	Surface analysis	A	120/576
0306(00), 1506(12)		EGRR	Surface analysis	B	120/576
0348(04), 1548(16)		EGRR	Gale warning summary	A	120/576
0354(00), 1554(12)		EGRR	Streamline analysis	B	120/576
0400(00), 1600(12)		EGRR	Surface analysis	A	120/576
0406(00), 1606(12)		EGRR	Surface analysis	B	120/576
0412(00), 1612(12)		EGRR	24 hour air temperature / dew point	A	120/576
0418(00), 1618(12)		EGRR	24 hour 700 hPa WBPT/PPTN	B	120/576
0424(00), 1624(12)		EGRR	24 hour 850 hPa WBPT / PPTN	A	120/576
0430(00), 1630(12)		EGRR	24 hour air temperature / dew point	B	120/576
0436(00), 1636(12)		EGRR	24 hour surface prognosis	A	120/576
0442(00), 1642(12)		EGRR	24 hour surface prognosis	B	120/576

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0448(06), 1648(18)		EGRR	SCEXA TAFS	A	120/576
0454(03), 1654(15)		EGRR	Gulf TAFS	B	120/576
0500(00), 1700(12)		EGRR	Surface analysis	A	120/576
0506(00), 1706(12)		EGRR	Surface analysis	B	120/576
0512(00), 1712(12)		EGRR	24 hour surface prognosis	A	120/576
0518(00), 1718(12)		EGRR	24 hour surface prognosis	B	120/576
0524(00), 1724(12)		EGRR	48 hour surface prognosis	A	120/576
0530(00), 1730(12)		EGRR	48 hour surface prognosis	B	120/576
0536(06), 1736(18)		EGRR	SCEXA TAFS	A	120/576
0542(06), 1742(18)		EGRR	Gulf TAFS	B	120/576
0548(06), 1748(18)		EGRR	Gale warning summary	A	120/576
0600		EGRR	NWEXAS TAFS	A	120/576
0600(00), 1800(12)		EGRR	Surface analysis	A	120/576
0606(00), 1806(12)		EGRR	Surface analysis	B	120/576
0612(00), 1812(12)		EGRR	24 hour surface prognosis	A	120/576
0618(00), 1818(12)		EGRR	24 hour surface prognosis	B	120/576
0648(07), 1848(19)		EGRR	SCEXA TAFS	A	120/576
0654(06), 1854(18)		EGRR	Gulf TAFS	B	120/576
0700(07), 1900(19)		EGRR	Spare SCEXA TAFS	A	120/576
0706, 1906		EGRR	Spare TAFS	B	120/576
0712(00), 1912(12)		EGRR	24 hour significant wind prognosis	A	120/576
0718(00), 1918(12)		EGRR	24 hour significant wind prognosis	B	120/576
0724(00), 1924(24)		EGRR	48 hour surface prognosis	A	120/576
0730(00), 1930(12)		EGRR	48 hour surface prognosis	B	120/576
0736(00), 1936(12)		EGRR	72 hour surface prognosis	A	120/576
0742(00), 1942(12)		EGRR	72 hour surface prognosis	B	120/576
0748(00), 1948(12)		EGRR	96 hour surface prognosis	A	120/576

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0754(00), 1954(12)		EGRR	96 hour surface prognosis	B	120/576
0800(00), 2000(12)		EGRR	120 hour surface prognosis	A	120/576
0806(00), 2006(12)		EGRR	120 hour surface prognosis	B	120/576
0812(00), 2012(12)		EGRR	Thickness/Geopotential height analysis	A	120/576
0818(00), 2018(12)		EGRR	Thickness/Geopotential height analysis	B	120/576
0824(00), 2024(12)		EGRR	48 hour surface prognosis	A	120/576
0830(00), 2030(12)		EGRR	48 hour surface significant winds	B	120/576
0836(00), 2036(12)		EGRR	72 hour significant winds	A	120/576
0842(00), 2042(12)		EGRR	72 hour surface significant winds	B	120/576
0848(00), 2048(12)		EGRR	96 hour significant winds	A	120/576
0854(00), 2054(12)		EGRR	96 hour surface significant winds	B	120/576
0900(06), 2100(18)		EGRR	Surface analysis	A	120/576
0906(00), 2106(12)		EGRR	Thickness/geopotential height analysis	B	120/576
0912(00), 2112(12)		EGRR	Thickness/Geopotential height analysis	A	120/576
0924(00), 2124(12)		EGRR	24 hour thickness / geopotential height analysis	A	120/576
0936(00), 2136(12)		EGRR	24 hour 850 hPa spot winds	A	120/576
0942(00), 2142(12)		EGRR	24 hour 850 hPa winds	B	120/576
0948(00), 2148(12)		EGRR	24 hour 700 hPa spot winds	A	120/576
1000(06), 2200(18)		EGRR	Surface analysis	A	120/576
1006(00), 2206		EGRR	Sea surface temperature	B	120/576
1012(06), 2212(18)		EGRR	24 hour surface prognosis	A	120/576
1024(06), 2224(18)		EGRR	24 hour reduced visibility	A	120/576
1036(06), 2236(18)		EGRR	24 hour 850 hPa wet bulb potential temperature/precipitation	A	120/576
1042(00), 2242(18)		EGRR	24 hour 700 hPa WBPT/PPT	B	120/576
1048(06), 2248(18)		EGRR	24 hour air temperature / dew point	A	120/576
1054(06), 2254(18)		EGRR	24 hour air temperature / dew point	B	120/576
1100(06), 2300(18)		EGRR	Surface analysis	A	120/576

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1112(06), 2312(18)		EGRR	24 hour surface prognosis	A	120/576
1124(06), 2324(18)		EGRR	24 hour sea and swell	A	120/576
1130(06), 2330(18)		EGRR	24 hour sea and swell prognosis	B	120/576
1136(00), 2336(12)		EGRR	24 hour thickness / geopotential height analysis	A	120/576
1148(00), 2348(12)		EGRR	Gale warning summary	A	120/576
1400(00)		EGRR	12 hour sea surface temperature	A	120/576
1824		EGRR	NWEXAS TAFS	A	120/576

Abbreviations used:

WBPT - Wet bulb potential temperature

PPTN - Precipitation

Notes:

1. Normally three frequencies are in operation at any time. Users should note that transmission of the carrier is turned off between each transmission.
2. Other products to meet the requirements of the Royal Navy, are included in the broadcast, but not listed above.
3. The broadcast from Northwood is maintained to meet the requirements of the Royal Navy. Consequently the broadcast is subject to change or withdrawal without notice

Web Link: --

UNITED STATES OF AMERICA**Station Name:** Pt. Reyes, California**Region:** IV**Position:****METAREA:** XII**Area of reception:** Pacific Coast**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
4346 kHz	NMC	F3C	-	4 KW	0140-1608
8682 kHz	NMC	F3C	-	4 KW	ALL BROADCAST TIMES
12786 kHz	NMC	F3C	-	4 KW	ALL BROADCAST TIMES
17151.2 kHz	NMC	F3C	-	4 KW	ALL BROADCAST TIMES
22527 kHz	NMC	F3C	-	4 KW	1840-2356

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
1.	20N - 70N, 115W - 135E		
10.	0N - 40N, 80W - 180W		
2.	20N - 70N, 115W - 175W		
3.	20N - 70N, 175W - 135E		
4.	20S - 30N, EAST OF 145W		
5.	05N - 55N, EAST OF 180W		
6.	23N - 60N, EAST OF 150W		
7.	05N - 32N, EAST OF 130W		
8.	18N - 62N, EAST OF 157W		
9.	40N - 53N, EAST OF 136W		

UNITED STATES OF AMERICA

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
-----/1842		KWBC	SST ANALYSIS	9	120/576
-----/1852		KWBC	SST ANALYSIS	6	120/576
-----/2033		KWBC	96HR 500MB FORECAST	1	120/576
-----/2043		KWBC	96HR SURFACE FORECAST	1	120/576
-----/2053		KWBC	96HR WIND/WAVE FORECAST	1	120/576
-----/2103		KWBC	96HR WAVE PERIOD/SWELL DIRECTION	1	120/576
-----/2356		KWBC	TROPICAL 72HR WAVE PERIOD/SWELL DIR	4	120/576
0140/1400		KWBC	TEST PATTERN		120/576
0143/1403		KWBC	NE PACIFIC GOES IR SATELLITE IMAGE	6	120/576
0154/1414		KWBC	PACIFIC GOES IR SATELLITE IMAGE	5	120/576
0205/1425		KWBC	TROPICAL SEA STATE ANALYSIS	4	120/576
0215/1435		KWBC	TROPICAL 48HR SURFACE FORECAST	4	120/576
0225/-----		KWBC	TROPICAL 48HR WIND/WAVE FORECAST	4	120/576
0235/-----		KWBC	TROPICAL 72HR WIND/WAVE FORECAST	4	120/576
0245/1445		KWBC	500MB ANALYSIS	1	120/576
0255/1455		KWBC	SEA STATE ANALYSIS, WIND/WAVE ANALYSIS	1/8	120/576
0305/1505		KWBC	PRELIM SURFACE ANALYSIS (PART 1 NE PAC)	2	120/576
0318/1518		KWBC	PRELIM SURFACE ANALYSIS (PART 2 NW PAC)	3	120/576
0331/1531		KWBC	FINAL SURFACE ANALYSIS(PART 1 NE PAC)	2	120/576
0344/1544		KWBC	FINAL SURFACE ANALYSIS(PART 2 NW PAC)	3	120/576
0357/1557		KWBC	CYCLONE DANGER AREA* or HIGH WIND/WAVES	10	120/576
0408/1608		KWBC	TROPICAL SURFACE ANALYSIS	4	120/576
0655/1840		KWBC	TEST PATTERN		
0657/-----		KWBC	2033Z REBROADCAST (96HR 500MB)	1	120/576
0707/-----		KWBC	2043Z REBROADCAST (96HR SURFACE)	1	120/576
0717/-----		KWBC	2053Z REBROADCAST (96HR WIND/WAVE)	1	120/576

UNITED STATES OF AMERICA

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0727/-----		KWBC	2103Z REBROADCAST (96HR WAVE PERIOD)	1	120/576
0737/1902		KWBC	TROPICAL GOES IR SATELLITE IMAGE	7	120/576
0748/1913		KWBC	WIND/WAVE ANALYSIS	8	120/576
0758/1923		KWBC	24HR 500MB FORECAST	1	120/576
0808/1933		KWBC	24HR SURFACE FORECAST	8	120/576
0818/1943		KWBC	24HR WIND/WAVE FORECAST	8	120/576
0828/1953		KWBC	48HR 500MB FORECAST	1	120/576
0838/2003		KWBC	48HR SURFACE FORECAST	1	120/576
0848/2013		KWBC	48HR WIND/WAVE FORECAST	1	120/576
0858/2023		KWBC	48HR WAVE PERIOD/SWELL DIRECTION	1	120/576
0908/2113		KWBC	PACIFIC GOES IR SATELLITE IMAGE	5	120/576
0919/2124		KWBC	SURFACE ANALYSIS (PART 1 NE PACIFIC)	2	120/576
0932/2137		KWBC	SURFACE ANALYSIS (PART 2 NW PACIFIC)	3	120/576
0945/2150		KWBC	TROPICAL SURFACE ANALYSIS	4	120/576
0959/2204		KWBC	TROPICAL 24HR WIND/WAVE FORECAST	4	120/576
1009/2214		KWBC	CYCLONE DANGER AREA* or HIGH WIND/WAVES	10	120/576
1120/2320		KWBC	TEST PATTERN		120/576
1124/2324		KWBC	BROADCAST SCHEDULE (PART 1)		120/576
1135/2335		KWBC	BROADCAST SCHEDULE (PART 2)		120/576
1146/-----		KWBC	REQUEST FOR COMMENTS		120/576
1157/-----		KWBC	PRODUCT NOTICE BULLETIN		120/576
1208/-----		KWBC	TROPICAL 48HR WIND/WAVE FORECAST	4	120/576
1218/-----		KWBC	TROPICAL 72HR WIND/WAVE FORECAST	4	120/576
1228/2346		KWBC	TROPICAL 48HR WAVE PERIOD/SWELL DIR	4	120/576

UNITED STATES OF AMERICA

* Tropical Cyclone Danger Area chart replaced by 48HR High Wind/Wave Warning chart Dec 01 - May 14 Valid times 00z,06z,12z and 18z.

NOTES:

1. CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY

Please send comments regarding the quality of these charts to: the quality of this broadcast to:

NATIONAL WEATHER SERVICE/NOAA COMMANDING OFFICER

MARINE FORECAST BRANCH W/NP41 USCG CAMSPAC

5200 AUTH ROAD 17000 SIR FRANCIS DRAKE BLVD.

CAMP SPRINGS, MD 20746 P.O. Box 560

PHONE: (301) 763-8000 x 7401 PT. REYES STATION, CA 94956-0560

FAX: (301) 763-8085 (877) 662-4636 (415)669-2047

EMAIL: Anthony.Siebers@noaa.gov D11-PF-CAMSPACCWO@USCG.MIL

Many of these charts also broadcast from Kodiak, AK and Honolulu, HI

If you have access to the World Wide Web be certain to check out the following webpages. See these pages for further links.

<http://www.nws.noaa.gov> NWS Homepage

<http://www.nws.noaa.gov/om/marine/home.htm> NWS Marine Page

cell.weather.gov (WAP/WML browser required) Cellphone page

mobile.weather.gov Mobile Page

Web Link: <http://weather.noaa.gov/pub/fax/hfreyes.txt>

UNITED STATES OF AMERICA

Station Name: Boston, Massachusetts (USCG)

Region: IV

Position: 41°42'N 70°30'W

METAREA: IV

Area of reception: North Atlantic to Barents Sea

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
4235 kHz	NMF	F3C	-	4 KW	0230z-1039
6340.5 kHz	NMF	F3C	-	4 KW	ALL BROADCAST TIMES
9 110 kHz	NMF	F3C	-	4 KW	ALL BROADCAST TIMES
12750 kHz	NMF	F3C	-	4 KW	1400z-2239

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
1.	28N-52N, 45W-85W		
2.	18N-65N, 10E-45W		
3.	18N-65N, 40W-95W		
4.	18N-65N, 10E-95W		
5.	20N-55N, 55W-95W		
6.	EQ-60N, 40W-130W		
7.	05N-60N, 0W-100W		
8.	22N-51N, 40W-98W		

UNITED STATES OF AMERICA

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
-----/1443		KWBC	PRODUCT NOTICE BULLETIN		120/576
-----/1453		KWBC	PRELIMINARY SURFACE ANALYSIS	1	120/576
-----/1503		KWBC	SATELLITE IMAGE	5	120/576
-----/1600		KWBC	ICE CHART (REBROADCAST)		120/576
-----/1720		KWBC	TEST PATTERN		120/576
-----/1759		KWBC	SEA STATE ANALYSIS	4	120/576
-----/1810		KWBC	SPARE OR EXPERIMENTAL	?	120/576
-----/2025		KWBC	PRELIMINARY SURFACE ANALYSIS	1	120/576
-----/2035		KWBC	96 HR 500MB FORECAST	4	120/576
-----/2045		KWBC	96 HR SURFACE FORECAST	4	120/576
-----/2055		KWBC	96 HR WIND/WAVE FORECAST	4	120/576
-----/2105		KWBC	96 HR WAVE PERIOD FORECAST	4	120/576
-----/2115		KWBC	(REBROADCAST OF 2045)	4	120/576
0230/1400		KWBC	TEST PATTERN		120/576
0233/----		KWBC	PRELIMINARY SURFACE ANALYSIS	1	120/576
0243/1405		KWBC	BROADCAST SCHEDULE (PART 1)		120/576
0254/1420		KWBC	BROADCAST SCHEDULE (PART 2)		120/576
0305/1433		KWBC	REQUEST FOR COMMENTS		120/576
0315/1515		KWBC	WIND/WAVE ANALYSIS	8	120/576
0325/1525		KWBC	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	2	120/576
0338/1538		KWBC	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	3	120/576
0351/-----		KWBC	SATELLITE IMAGE	5	120/576
0402/1723		KWBC	(REBROADCAST OF 0325/1525)	2	120/576
0415/1736		KWBC	(REBROADCAST OF 0338/1538)	3	120/576
0428/1749		KWBC	500MB ANALYSIS	4	120/576
0438/-----		KWBC	ICE CHART (REBROADCAST)		120/576

UNITED STATES OF AMERICA

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0452/1824		KWBC	CYCLONE DANGER AREA* or HIGH WIND/WAVES	7	120/576
0745/1900		KWBC	TEST PATTERN		120/576
0755/----		KWBC	PRELIMINARY SURFACE ANALYSIS	1	120/576
0805/1905		KWBC	24HR SURFACE FORECAST	8	120/576
0815/1915		KWBC	24HR WIND/WAVE FORECAST	8	120/576
0825/1925		KWBC	24HR 500MB FORECAST	4	120/576
0835/1935		KWBC	36HR 500MB FORECAST	4	120/576
0845/1945		KWBC	48HR 500MB FORECAST	4	120/576
0855/1955		KWBC	48HR SURFACE FORECAST	4	120/576
0905/2005		KWBC	48HR WIND/WAVE FORECAST	4	120/576
0915/2015		KWBC	48HR WAVE PERIOD FORECAST	4	120/576
0925/2125		KWBC	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	2	120/576
0938/2138		KWBC	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	3	120/576
0951/2151		KWBC	SATELLITE IMAGE	6	120/576
1002/2202		KWBC	(REBROADCAST OF 0925/2125)	2	120/576
1015/2215		KWBC	(REBROADCAST OF 0938/2138)	3	120/576
1028/2228		KWBC	CYCLONE DANGER AREA* or HIGH WIND/WAVES	7	120/576
1039/2239		KWBC	REBROADCAST/N American Ice Service Chart		120/576

UNITED STATES OF AMERICA

* Tropical Cyclone Danger Area chart replaced by 48HR High Wind/Wave Warning chart Dec 01 - May 14 Valid times 00z,06z,12z and 18z, Map area 05N-40N, 35W-100W.

NOTES:

1. CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY.

Please send comments regarding Please send comments regarding the quality of these charts to:the quality of this broadcast to:

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MARINE FORECAST BRANCH

W/NP41 USCG CAMSLANT

5200 AUTH ROAD

4720 DOUGLAS A. MUNRO RD.

CAMP SPRINGS, MD 20746

CHESAPEAKE, VA 23322-2598

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CWO's@camlant.uscg.mil

EMAIL: Anthony.Siebers@noaa.gov

Tropical cyclone charts also broadcast from New Orleans, LA

If you have access to the World Wide Web be certain to check out the following webpages. See these pages for further links.

<http://www.nws.noaa.gov> - NWS Homepage

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cell.weather.gov (WAP/WML browser required) - Cellphone page

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Web Link: --

UNITED STATES OF AMERICA

Station Name: New Orleans, Louisiana (USCG)

Region: IV

Position: 29°53'N 89°57'W

METAREA: IV

Area of reception: Atlantic area

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
4317.9 kHz	NMG	F3C		4 KW	ALL BROADCAST TIMES
8503.9 kHz	NMG	F3C		4 KW	ALL BROADCAST TIMES
12789.9 kHz	NMG	F3C		4 KW	ALL BROADCAST TIMES
17146.4 kHz	NMG	F3C		4 KW	1200-2045

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
1.	5S - 50N, 55W - 125W		
2.	5S - 50N, 0W - 70W		
3.	0N - 31N, 35W - 100W		
4.	12S - 44N, 28W - 112W		
5.	7N - 31N, 35W - 98W (AREA COVERED BY TEXT FORECAST)		
6.	05N - 60N, 0W - 100W		

UNITED STATES OF AMERICA

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
----- /1350		KWBC	36 HR WIND/WAVE FORECAST	3	120/576
-----/2025		KWBC	BROADCAST SCHEDULE		120/576
0000/1200		KWBC	TEST PATTERN		120/576
0005/1205		KWBC	U.S./TROPICAL SURFACE ANALYSIS (W HALF)	1	120/576
0020/1220		KWBC	TROPICAL SURFACE ANALYSIS (E HALF)	2	120/576
0035/1235		KWBC	REBROADCAST OF 1925/0725 (24 HR WIND/WAVE)	3	120/576
0045/1245		KWBC	REBROADCAST OF 1950/0750 (48 HR WIND/WAVE)	3	120/576
0055/1255		KWBC	REBROADCAST OF 2015/0815 (72 HR WIND/WAVE)	3	120/576
0105/1305		KWBC	REBROADCAST OF 1855/0655 (24 HR SURFACE)	3	120/576
0115/1315		KWBC	REBROADCAST OF 1905/0705 (48 HR SURFACE)	3	120/576
0125/1325		KWBC	REBROADCAST OF 1915/0715 (72 HR SURFACE)	3	120/576
0135/1335		KWBC	CYCLONE DANGER AREA* or 48 HR HIGH WIND/WAVES	6	120/576
0150/-----		KWBC	REBROADCAST OF 0825 (72 HR WAVE PD/SWELL)	3	120/576
0200/1400		KWBC	GOES IR TROPICAL SATELLITE IMAGE	4	120/576
0215/1415		KWBC	SEA STATE ANALYSIS	3	120/576
0225/1425		KWBC	REQUEST FOR COMMENTS/PRODUCT NOTICE		120/576
0245/1445		KWBC	HIGH SEAS FORECAST (IN ENGLISH)	5	120/576
0600/1800		KWBC	TEST PATTERN		120/576
0605/1805		KWBC	U.S./TROPICAL SURFACE ANALYSIS (W HALF)	1	120/576
0620/1820		KWBC	TROPICAL SURFACE ANALYSIS (E HALF)	2	120/576
0635/1835		KWBC	48 HR WAVE PERIOD/SWELL DIRECTION	3	120/576
0645/1845		KWBC	REBROADCAST OF 0215/1415 (SEA STATE ANAL')	3	120/576
0655/1855		KWBC	24 HR SURFACE FORECAST	3	120/576
0705/1905		KWBC	48 HR SURFACE FORECAST	3	120/576
0715/1915		KWBC	72 HR SURFACE FORECAST	3	120/576
0725/1925		KWBC	24 HR WIND/WAVE FORECAST	3	120/576

UNITED STATES OF AMERICA

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0735/1935		KWBC	CYCLONE DANGER AREA* or 48HR HIGH WIND/WAVES	6	120/576
0750/1950		KWBC	48 HR WIND/WAVE FORECAST	3	120/576
0800/2000		KWBC	GOES IR TROPICAL SATELLITE IMAGE	4	120/576
0815/2015		KWBC	72 HR WIND/WAVE FORECAST	3	120/576
0825/-----		KWBC	72 HR WAVE PERIOD/SWELL DIRECTION	3	120/576
0835/-----		KWBC	REBROADCAST OF 0215 (SEA STATE ANALYSIS)	3	120/576
0845/2045		KWBC	HIGH SEAS FORECAST (IN ENGLISH)	5	120/576

* Tropical Cyclone Danger Area chart replaced by 48HR High Wind/Wave Warning chart Dec 01-May 14. Valid times 00z, 06z, 12z and 18z. Map area 05N-40N, 35W-100W.

NOTES:

1. CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY

Web Link: <http://weather.noaa.gov/pub/fax/hfgulf.txt>

UNITED STATES OF AMERICA (ALASKA)**Station Name:** Kodiak, Alaska, USA**Region:** IV**Position:****METAREA:** XII & XVII**Area of reception:** East Pacific**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
2054 kHz	NOJ	F3C	-	4 KW	ALL BROADCAST TIMES
4298 kHz	NOJ	F3C	-	4 KW	ALL BROADCAST TIMES
8459 kHz	NOJ	F3C	-	4 KW	ALL BROADCAST TIMES
12412.5 kHz	NOJ	F3C	-	4 KW	ALL BROADCAST TIMES

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
1.	20N - 70N, 115W - 135E		
2.	40N - 70N, 125W - 150E		
3.	40N - 70N, 115W - 170E		
4.	40N - 60N, 125W - 160E		
5.	05N - 60N, 110W - 160W		
6.	ICE COVERED AK WATERS		
7.	COOK INLET		

UNITED STATES OF AMERICA (ALASKA)

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
-----/0008		PAAQ	96HR WAVE PERIOD, SWELL DIRECTION	1	120/576
-----/0018		PAAQ	96HR 500 MB FORECAST	1	120/576
-----/2348		PAAQ	96HR SURFACE FORECAST	1	120/576
-----/2358		PAAQ	96HR WIND/WAVE FORECAST	1	120/576
0340/1540		PAAQ	TEST PATTERN 120/576		
0343/1543		PAAQ	SEA ICE ANALYSIS/REBROADCAST 5-DAY SEA ICE FORECAST	6	120/576
0403/1603		PAAQ	REBROADCAST 24HR SURFACE F'CAST 2227/1027	3	120/576
0437/1637		PAAQ	REBROADCAST 48HR SURFACE F'CAST 2237/1037	1	120/576
0447/1647		PAAQ	REBROADCAST 96HR SURFACE F'CAST 2348		120/576
0456/1656		PAAQ	SEA STATE ANALYSIS/REBROADCAST	1	120/576
0506/1706		PAAQ	GOES IR SATELLITE IMAGE	5	120/576
0517/1717		PAAQ	500 MB ANALYSIS	1	120/576
0527/1727		PAAQ	SYMBOLS AND CONTRACTIONS/SCHEDULE		120/576
0548/1748		PAAQ	REQUEST FOR COMMENTS/PRODUCT NOTICE		120/576
0558/1758		PAAQ	24HR 500 MB FORECAST	1	120/576
0950/2150		PAAQ	TEST PATTERN		120/576
0953/2153		PAAQ	SURFACE ANALYSIS	2	120/576
1017/2217		PAAQ	24HR WIND/WAVE FORECAST	3	120/576
1027/2227		PAAQ	24HR SURFACE FORECAST	3	120/576
1037/2237		PAAQ	48HR SURFACE FORECAST	1	120/576
1047/2247		PAAQ	48HR WIND/WAVE FORECAST	1	120/576
1057/2257		PAAQ	5-DAY SEA ICE FORECAST/REBROADCAST SEA ICE ANALYSIS	6	120/576
1117/2317		PAAQ	GOES IR SATELLITE IMAGE	5	120/576
1128/2328		PAAQ	48HR WAVE PERIOD, SWELL DIRECTION	1	120/576
1138/2338		PAAQ	48HR 500 MB FORECAST	1	120/576
1148/-----		PAAQ	SEA SURFACE TEMPERATURE ANALYSIS	4	120/576

UNITED STATES OF AMERICA (ALASKA)

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1159/-----		PAAQ	COOK INLET SEA ICE FORECAST	7	120/576

Send comments regarding the contents of these charts to:

Marine Services Program Manager
National Weather Service Alaska Region
222 West 7th Avenue
Anchorage, AK 99513-7575
907-271-5088 /FAX: 907-271-3711
nws.ar.arh.webauthors@noaa.gov

Send comments regarding the to: quality of this broadcast to:

U.S. Coast Guard
Commander COMMSTA Kodiak
P.O. Box 190017
Kodiak, AK 99619-0017
907-487-5426 /FAX: 907-487-5517
907-487-5778 (24Hr)

Many of these charts also broadcast from Pt. Reyes, CA and Honolulu, HI

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<http://www.nws.noaa.gov/om/marine/home.htm> NWS Marine Page
cell.weather.gov (WAP/WML browser required) Cellphone page
mobile.weather.gov Mobile Page

Web Link: <http://weather.noaa.gov/pub/fax/hfak.txt>

UNITED STATES OF AMERICA (ALASKA)

Station Name: Kodiak, Alaska, USA

Region: IV

Position:

METAREA: XII & XVII

Area of reception: East Pacific

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

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cell.weather.gov (WAP/WML browser required) Cellphone page
mobile.weather.gov Mobile Page

Web Link: <http://weather.noaa.gov/pub/fax/hfak.txt>

UNITED STATES OF AMERICA (HAWAII)

Station Name: Honolulu

Region: V

Position:

METAREA: XII

Area of reception: East Pacific

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
9982.5 kHz	KVM70	F3C	-	4 KW	0519-1556
11090 kHz	KVM70	F3C	-	4 KW	ALL BROADCAST TIMES
16135 kHz	KVM70	F3C	-	4 KW	1719-0356

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
1.	20N - 70N, 115W - 135E		Ocean Prediction Center
2.	20N - 70N, 115W - 175W		Ocean Prediction Center
3.	20N - 70N, 175W - 135E		Ocean Prediction Center
4.	18N - 62N, EAST OF 157W		Ocean Prediction Center
5.	05N - 55N, EAST OF 180W		Ocean Prediction Center
A.	30S - 50N, 110W - 130E		Honolulu Forecast Office
B.	30S - 30N, 110W - 130E		Honolulu Forecast Office
C.	EQ - 50N, 110W - 130E		Honolulu Forecast Office
D.	30S - 50N, 110W - 160E		Honolulu Forecast Office
E.	EQ - 40N, 80W - 170E		Honolulu Forecast Office
F.	EQ - 55N, 110W - 160E		Honolulu Forecast Office
G.	05S - 55N, 110W - 155E		Honolulu Forecast Office
H.	40S - 05N, 130W - 165E		Honolulu Forecast Office
Y.	05N - 32N, EAST OF 130W		National Hurricane Center
Z.	20S - 30N, EAST OF 145W		National Hurricane Center

UNITED STATES OF AMERICA (HAWAII)

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0519/1719			TEST PATTERN		120/576
0524/1724			SIGNIFICANT CLOUD FEATURES	D	120/576
0535/1735			CYCLONE DANGER AREA	E	120/576
0555/1755			STREAMLINE ANALYSIS	B	120/576
0615/1815			SURFACE ANALYSIS	C	120/570
0635/1835			EAST PACIFIC GOES IR SATELLITE IMAGE	G	120/576
0649/1849			SW PACIFIC GOES IR SATELLITE IMAGE	H	120/576
0701/1901			24HR SURFACE FORECAST	A	120/576
0714/1914			48HR SURFACE FORECAST	A	120/576
0727/1927			72HR SURFACE FORECAST	A	120/576
0740/1940			WIND/WAVE ANALYSIS	B	120/576
0753/1953			24HR WIND/WAVE FORECAST	B	120/576
0806/2006			24HR WIND/WAVE FORECAST	4	120/576
0816/2016			48HR SURFACE FORECAST	1	120/576
0826/2026			48HR WIND/WAVE FORECAST	1	120/576
0836/2036			48/96HR WAVE PERIOD,SWELL DIRECTION	1	120/576
0846/2046			rebroadcast/ 96HR SURFACE FORECAST	1	120/576
0856/2056			rebroadcast/ 96HR WIND/WAVE FORECAST	1	120/576
0906/2106			PACIFIC GOES IR SATELLITE IMAGE	5	120/576
0917/2117			SURFACE ANALYSIS (PART 1 NE PACIFIC)	2	120/576
0930/2130			SURFACE ANALYSIS (PART 2 NW PACIFIC)	3	120/576
0943/2143			TROPICAL GOES IR SATELLITE IMAGE	Y	120/576
0954/2154			TROPICAL SURFACE ANALYSIS	Z	120/576
1008/2208			24HR TROPICAL WIND/WAVE FORECAST	Z	120/576
1042/2242			CYCLONE DANGER AREA	E	120/570
1102/2302			48HR WIND/WAVE FORECAST	B	120/576

UNITED STATES OF AMERICA (HAWAII)

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
1115/2315			72HR WIND/WAVE FORECAST	B	120/576
1128/2328			SEA SURFACE TEMPS	F	120/576
1141/2341			rebroadcast 24HR WIND/WAVE FORECASTS	B	120/576
1154/2354			STREAMLINE ANALYSIS	B	120/576
1214/0014			SURFACE ANALYSIS	C	120/576
1234/0034			EAST PACIFIC GOES IR SATELLITE IMAGE	G	120/576
1248/0048			SW PACIFIC GOES IR SATELLITE IMAGE	H	120/576
1300/0100			SCHEDULE PART I		120/576
1320/0120			SCHEDULE PART II		120/576
1340/0140			SYMBOLS OR PRODUCT NOTICE BULLETIN		120/576
1400/0200			24HR TROPICAL SURFACE FORECAST	Z	120/576
1410/0210			48HR TROPICAL SURFACE FORECAST	Z	120/576
1420/0220			72HR TROPICAL SURFACE FORECAST	Z	120/576
1430/0230			48/72HR TROPICAL WAVE PERIOD,SWELL DIR	Z	120/576
1440/0240			TROPICAL SEA STATE ANALYSIS	Z	120/576
1450/0250			rebroadcast 24HR TROPICAL WIND/WAVE FORECASTS	Z	120/576
1500/0300			48HR TROPICAL WIND/WAVE FORECAST	Z	120/576
1510/0310			72HR TROPICAL WIND/WAVE FORECAST	Z	120/576
1520/0320			rebroadcast/SEA STATE ANALYSIS	1	120/576
1530/0330			SURFACE ANALYSIS(PART 1 NE PAC)	2	120/576
1543/0343			SURFACE ANALYSIS(PART 2 NW PAC)	3	120/576
1556/0356			TROPICAL SURFACE ANALYSIS	Z	120/576

UNITED STATES OF AMERICA (HAWAII)

NOTES:

STREAMLINES ARE LINES OF CONSTANT WIND DIRECTION.

WIND SPEEDS ARE GIVEN BY WIND BARBS INDEPENDENT OF STREAMLINES.

THE SIGNIFICANT CLOUD FEATURES CHARTS DEPICT CLOUD FEATURES BASED UPON IMAGES FROM THE VARIOUS GEOSTATIONARY AND POLAR ORBITING SATELLITES OVER THE PACIFIC.

ABBREVIATIONS ON THESE CHARTS INCLUDE:

AC - ALTOCUMULUS; AS - ALTOSTRATUS; BKN - BROKEN; CB - CUMULONIMBUS; CC - CIRROCUMULUS; CI - CIRRUS; CS - CIRROSTRATUS; CU - CUMULUS; FEW - FEW; ISOL - ISOLATED; LYRS - LAYERS; NS - NIMBOSTRATUS; OVC - OVERCAST; SC - STRATO-CUMULUS; SCT - SCATTERED; TCU - TOWERING CUMULUS; TSTM - THUNDERSTORM.

RADIOFAX FREQUENCIES ARE ASSIGNED FREQUENCIES. TO CONVERT TO CARRIER FREQUENCIES, SUBTRACT 1.9 KHZ FROM THE ASSIGNED FREQUENCIES.

YOU MAY ADDRESS COMMENTS ABOUT THIS BROADCAST TO:

Meteorologist In Charge

National Weather Service

2525 Correa Rd.

Honolulu, HI 96822

PHONE: (808) 973-5270/FAX: (808) 973-5281

E-Mail norman.hui@noaa.gov

Many of these charts also broadcast via Pt. Reyes, CA and Kodiak, AK

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cell.weather.gov (WAP/WML browser required) Cellphone page

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Web Link: <http://weather.noaa.gov/pub/fax/hfhi.txt>

UZBEKISTAN

Station Name: Tashkent

Region: II

Position:

METAREA: IX

Area of reception:

I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
4 365 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	0300-1500
14 982.5 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	H24
3 690 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	1500-0300
9 340 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	0300-1500
7 570 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	1500-0300

II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
M	55°00'N-15°00'E, 55°00'N-105°00'E, 15°00'N-20°00'E, 15°00'N-105°00'W	Polar Stereographic	1: 15.000.000
P	44°55'N-30°21'E, 30°11'N-75°08'E, 27°35'N-41°16'E, 49°25'N-82°03'E	Polar Stereographic	1: 10.000.000
U	45°34'N-36°59'E, 42°54'N-127°30'E, 17°13'N-11°40'E, 16°04'N-80°08'E	Polar Stereographic	1: 24.000.000
V	48°25'N-53°34'E, 47°47'N-80°19'E, 35°38'N-56°35'E, 35°09'N-76°49'E	Polar Stereographic	
X	45°34'N-36°59'W, 43°05'N-127°28'E, 17°17'N-11°36'E, 16°10'N-80°01'E	Polar Stereographic	80°-65°N latitude - 1:37.000.000 65°-55°N latitude - 1:3500.000 55°-45°N latitude - 32.5000.000 45°-35°N latitude - 31.000.000

UZBEKISTAN

III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	TTAAii	CCCC	Details of Chart	Map Area	Drum Speed
0005(12), 1230(00)		UTTW	Forecast KWBC	X	90/576
0155(00), 1350(12)		UTTW	Circular chart (RTH Tashkent)	P	60/576
0300(00), (1500(12)		UTTW	Near surface analysis	U	60/576
0345(00)		UTTW	Analysis AT-700	U	90/576
0430(00)		UTTW	Analysis AT-500	U	90/576
0500(03), 1440(12)		UTTW	Nephanalysis	M	90/576
0535(00)		UTTW	Analysis AT-850	U	90/576
0610(00)		UTTW	Analysis AT-300	U	90/576
0755(06), 1905(18)		UTTW	Circular chart (RTH Tashkent)	P	60/576
1005(00)		UTTW	Analysis OT-500-1000	U	90/576
1005(09), 2255(21)		UTTW	Circular chart (RTH Tashkent)	P	60/576
1245(00), 1300(00)		UTTW	Forecast KWBC	X	90/576
1315(00), 2350(12)		UTTW	Forecast KWBC	X	90/576
1655(15)		UTTW	Circular chart (RTH Tashkent)	P	60/576
1930(18)		UTTW	Circular chart (RTH Tashkent)	P	60/576

Web Link: --

CHAPTER 3

VISUAL STORM WARNING SIGNALS

Chapter 3 - VISUAL STORM WARNING SIGNALS

1. CONTENTS

As stipulated in the International Convention for the Safety of Life at Sea (Chapter V, Regulation 4 (b) (i)), Countries concerned should display at coastal points appropriate visual storm warning signals when applicable.

WMO Technical Regulations specifies that any Member establishing a new visual storm warning signal system should adopt the international system.

This part contains information on the systems of visual storm warning signals adopted by the various maritime countries. Where no such signals are used, a statement to this effect is given. The contents of this part are

based on official notifications from the countries concerned.

Annex I - International System of Visual Storm Warning Signals

Annex II - National Systems of Visual Storm Warning Signals (Day Signals)















Annex III - National Systems of Visual Storm Warning Signals (Night Signals)

2. LAYOUT

Each country is arranged in alphabetical order according to their English names.













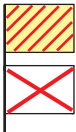











































Annex I

INTERNATIONAL SYSTEM OF VISUAL STORM WARNING SIGNALS

Day signals Signaux de jour	Description of wind force Description de la force du vent	Night signals Signaux de nuit	Remarks Remarques
	Near gale any direction. / Grand frais toute direction		This signal applies to wind force 7 Beaufort (28-33 kt) (see Note 3). / Ce signal s'applique au vent de force Beaufort 7 (28-33 noeuds) (voir la Note 3).
	Gale or storm commencing in the NW quadrant. / Coup de vent ou tempête commençant dans le quadrant NW.		This cone applies to winds of force 8 Beaufort (34-40 kt) or more (see Note 4). / Ce cône représente les vents de force Beaufort 8 (34-40 noeuds) ou au-delà (voir la Note 4).
	Gale or storm commencing in the SW quadrant. / Coup de vent ou tempête commençant dans le quadrant SW.		This cone applies to winds of force 8 Beaufort (34-40 kt) or more (see Note 4). / Ce cône représente les vents de force Beaufort 8 (34-40 noeuds) ou au-delà (voir la Note 4).
	Gale or storm commencing in the NE quadrant. / Coup de vent ou tempête commençant dans le quadrant NE.		This cone applies to winds of force 8 Beaufort (34-40 kt) or more (see Note 4). / Ce cône représente les vents de force Beaufort 8 (34-40 Noeuds) ou au-delà (voir la Note 4).
	Gale or storm commencing in the SE quadrant. / Coup de vent ou tempête commençant dans le quadrant SE.		This cone applies to winds of force 8 Beaufort (34-40 kt) or more (see Note 4). / Ce cône représente les vents de force Beaufort 8 (34-40 noeuds) ou au-delà (voir la Note 4).
	Wind expected to veer (clockwise change in direction). / Saute de vent (changement de direction dans le sens des aiguilles d'une montre)		Flags may be of any suitable colour. / Les pavillons peuvent être de toute couleur appropriée
	Wind expected to back (counter-clockwise change in direction). / Saute de vent (changement de direction dans le sens contraire des aiguilles d'une montre).		Flags may be of any suitable colour. / Les pavillons peuvent être de toute couleur
	Hurricane (or local synonym) with wind of force 12 Beaufort (64 kt and above) from any direction. / Ouragan (ou synonyme local) avec vent de force Beaufort 12 (64 noeuds et plus) dans toute direction.		








































Annex II

NATIONAL SYSTEMS OF VISUAL STORM WARNING SIGNALS (DAY SIGNALS)

1a 	9a 	17a 	25a 	33a 	41a 	49a 
2a 	10a 	18a 	26a 	34a 	42a 	50a 
3a 	11a 	19a 	27a 	35a 	43a 	51a 
4a 	12a 	20a 	28a 	36a 	44a 	52a 
5a 	13a 	21a 	29a 	37a 	45a 	53a 
6a 	14a 	22a 	30a 	38a 	46a 	54a 
7a 	15a 	23a 	31a 	39a 	47a 	55a 
8a 	16a 	24a 	32a 	40a 	48a 	56a 

Annex III

NATIONAL SYSTEMS OF VISUAL STORM WARNING SIGNALS (NIGHT SIGNALS)

						
1b	7b	13b	19b	25b	31b	37b
						
2b	8b	14b	20b	26b	32b	38b
						
3b	9b	15b	21b	27b	33b	39b
						
4b	10b	16b	22b	28b	34b	
						
5b	11b	17b	23b	29b	35b	
						
6b	12b	18b	24b	30b	36b	

SIGNALS		Specifications
Day	Night	Remarks

ANGOLA

See International Visual Storm Warning Signals.

ANTIGUA AND BARBUDA

40a	40a
-----	-----

Tropical disturbance reported; likely to affect the island.

Signals used in Antigua.

41a	41a
-----	-----

Hurricane warning. Danger expected.

Signals used in Antigua.

ARGENTINA

No visual storm warning signals at present (the use of the international system is planned).

AUSTRALIA

* At present there is no national system of visual storm warning signals in general use in Australia. The control of the various major shipping ports in Australia is vested in various State and Local Authorities, some of whom exhibit local signals.

BANGLADESH

19a*	19a*
------	------

VII. Danger Signal Number Seven.

The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross over or near to the port (wind speed same as in Signal No. V) These signals indicate that the port itself and the ships in it are in danger.

2a+	2a+
-----	-----

III. Danger Signal Number Three.

A storm (of gale force associated sustained winds 39-54 m.p.h. (34-47 knots)) will soon strike you. All vessels are to seek shelter immediately.

These signals are used for river ports, river and police stations in Bangladesh.

1a+	1a+
-----	-----

II. Warning Signal Number Two.

A storm 1 (of depression intensity, associated sustained winds not more than 38 m.p.h. (33 knots) or Nor'Wester squall (of wind speed exceeding 40 m.p.h. (35 knots) is likely to strike you (vessels of 65 feet and under in length are to seek shelter immediately).

These signals are used for river ports, river and police stations in Bangladesh.

24a+	24a+
------	------

I. Cautionary Signal Number One.

Your area is threatened by squally winds of a transient nature (Nor'Wester squall of wind speed not exceeding 40 m.p.h. (35 knots). Look out for further development.

These signals are used for river ports, river and police stations in Bangladesh.

23a*	23a*
------	------

XI. Failure of Communications.

Communications with the Meteorological Warning Centre have broken down, and the local officer considers that there is danger of bad weather

These signals indicate that the port itself and the ships in it are in danger.

22a*	22a*
------	------

X. Great Danger Signal Number Ten.

The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast over or near to the port (wind speed same as in Signal No. VIII)

These signals indicate that the port itself and the ships in it are in danger.

10a+	10a+
------	------

IV. Great Danger Signal Number Four.

A violent storm (of whole gale force and above, associated sustained wind speed exceeding 54 m.p.h. (47 knots)) will soon strike you). All vessels continue taking shelter immediately

These signals are used for river ports, river and police stations in Bangladesh.

20a*	20a*
------	------

VIII. Great Danger Signal Number Eight.

The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast to the south of the port (to the east of the port in case of Chalna) (severe cyclonic storm with surface winds 55-73 m.p.h. (46-63 knots) or severe cyclonic storm of hurricane intensity with winds 74 m.p.h. (64 knots) or above)/

These signals indicate that the port itself and the ships in it are in danger.

SIGNALS		Specifications
Day	Night	Remarks
2a*	2a*	IV. Local Warning Signal Number Four. The port is threatened by a storm, but it does not appear that the danger is as yet sufficiently great to justify extreme measures of precaution (cyclonic circulation with surface winds 32-38 m.p.h. (28-33 knots)) These signals indicate that the port itself and the ships in it are in danger.
18a*	18a*	VI. Danger Signal Number Six. The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross the coast to the north of the port (to the west of the port in case of Chalna) (wind speed same as in Signal No. V) These signals indicate that the port itself and the ships in it are in danger.
17a*	17a*	V. Danger Signal Number Five. The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross the coast to the south of the port (to the east of the port in case of Chalna) (cyclonic storm with surface winds 39-54 m.p.h. (34-47 knots)) These signals indicate that the port itself and the ships in it are in danger.
3a*	3a*	III. Local Cautionary Signal Number Three. The port is threatened by squally weather (cyclonic circulation with surface winds 25-31 m.p.h. (22-27 knots)) or squalls due to Nor'Westers) These signals indicate that the port itself and the ships in it are in danger.
21a*	21a*	IX. Great Danger Signal Number Nine. The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast to the north of the port (to the west of the port in case of Chalna) (wind speed same as in Signal No. VIII) These signals indicate that the port itself and the ships in it are in danger.
10a*	10a*	II. Distant Warning Signal Number Two. A storm has formed (cyclonic storm with surface winds 39-54 m.p.h. (34-47 knots)) These signals indicate that ships may be exposed to danger after leaving the harbour.
16a*	16a*	I. Distant Cautionary Signal Number One. There is a region of squally weather in which a storm may be forming (well marked low or depression with surface winds up to 38 m.p.h. (33 knots)) These signals indicate that ships may be exposed to danger after leaving the harbour.

* Signals meant for maritime ports.

+ Signals meant for river ports.

BARBADOS

41a	41a	Hurricane conditions are expected within 24 hours.
45a	45a	The island is out of danger. The green flag of the day signal has a white diagonal stripe.

BELIZE

41a	41a	A tropical storm or hurricane moves into or develops anywhere in the quadrant south of 20°N latitude and west of 85°W longitude.
43a	43a	(i) A tropical depression moves into or develops anywhere in the quadrant south of 21°N latitude and west of 80°W longitude, OR (ii) A tropical storm or hurricane moves into or develops anywhere in the quadrant south of 21°N latitude and between longitudes 80°W and 83°W
40a	40a	A tropical or hurricane moves into or develops anywhere in the quadrant south of 20°N latitude and between longitudes 83°W and 85°W.
45a	45a	The tropical depression, tropical storm or hurricane has passed or no longer poses a threat to Belize and coastal waters.

BRAZIL

See International Visual Storm Warning Signals.

CAMBODIA

No visual storm warning signals at present.

CAMEROON

See International Visual Storm Warning Signals.

SIGNALS		Specifications Remarks
Day	Night	

CHILE

1a	1a	Bad weather
48a	48a	Variable
46a	46a	The traffic of small craft is suspended in the bay on account of bad weather.
9a	9a	Storm
47a	47a	The traffic, loading and unloading of cargo are totally suspended; lighters and tugs should make fast.

Note: (a) These signals correspond to the current synoptic chart.

(b) The "Bad weather" signal should be interpreted as a forecast of N'ly winds of force 4 to 7 which hinder shipping movements in the bay: this situation is already considered threatening and, accordingly, the appropriate precautionary measures should be taken.

COSTA RICA

At present there is no national or international system of visual storm warning signal in general use in Costa Rica

COTE D'IVOIRE

See International Visual Storm Warning Signals.

DJIBOUTI

See International Visual Storm Warning Signals.

EGYPT

4a	4a	Gale commencing with wind in the NE quadrant.
2a	2a	Gale commencing with wind in the NW quadrant.
3a	3a	Gale commencing with wind in the SW quadrant.
50a	50a	Too much sea, pilot cannot go out.
5a	5a	Gale commencing with wind in the SE quadrant.
15a	15a	Hurricane.

FIJI

35a	35a	Storm/hurricane alert. A tropical cyclone of storm or hurricane intensity exists and may affect the locality within 24 or 36 hours.
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FRANCE

See International Visual Storm Warning Signals.

FRENCH POLYNESIA

See International Visual Storm Warning Signals.

GABON

See International Visual Storm Warning Signals.

GAMBIA

See International Visual Storm Warning Signals.

GHANA

9a	9a	Squally weather from a line-squall or thunderstorms of slight to moderate intensity are expected to affect the locality accompanied by North-East to Easterly winds. Accordingly, appropriate precautionary measures should be taken. Displays are made at signal stations on prominent buildings on the coast at Tema (05°37'N, 00°00') and Takoradi (04°45'N, 01°45'W) whenever a storm becomes a threat in the coastal sea area on the landward boundary.
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Note: The Offices of the Harbour Master, Harbour Authority which operate the system are kept informed by radio or land-line telephone by the National Meteorological Services Department (Weather Forecasting and warning Services Division) when the situation is considered threatening and is likely to affect ship movements in the harbours.

SIGNALS		Specifications Remarks
Day	Night	
GIBRALTAR		
3a	3a	A gale or strong wind from westward is probable
2a	2a	A gale or strong wind from eastward is probable
GRENADA		
41a	41a	Winds above 63 kt Signals used in Grenada.
40a	40a	Winds 34-63 kt Signals used in Grenada.
56a	56a	Winds 28-33 kt Signals used in Grenada.
INDIA		
18a	18a	Port will experience severe weather from a cyclone expected to move keeping the port to the right of its track. These signals indicate that the port itself and the ships in it are in danger.
21a	21a	Port will experience severe weather from a severe cyclone expected to move keeping the port to the right of its track. This signal indicates that the port itself and the ships in it are in danger.
16a	16a	There is a region of squally weather in which a storm may be forming. These signals indicate that ships may be exposed to danger after leaving the harbour.
10a	10a	GREAT DANGER. A violent storm will soon strike you These signals are used for Ganges Delta ports and river and police stations in West Bengal.
2a	2a	DANGER. A storm will soon strike you These signals are used for Ganges Delta ports and river and police stations in West Bengal.
1a	1a	WARNING. A storm may affect you shortly These signals are used for Ganges Delta ports and river and police stations in West Bengal.
23a*	23a*	Communications with the Meteorological Warning Centre have broken down, and the local officer considers there is a danger of bad weather These signals are used for Ganges Delta ports and river and police stations in West Bengal.
2a*	2a*	Port is threatened by a storm, but it does not appear that danger justifies extreme measures of precaution. Squally weather is meant to cover occasional or frequent squalls with rain or persistent type of strong gusty wind (mean wind speed not less than 20 knots) accompanied by rain. Such conditions are associated with low pressure systems or onset and strengthening of monsoon. Mean wind speeds exceeding 33 knots associated with cyclonic storms are generally covered by signals higher than 3a.
22a*	22a*	Port will experience severe weather from a severe cyclone expected to move over or close to the port. This signal is also hoisted when a storm is expected to skirt the coast without (actually) crossing it.
10a	10a	A storm has formed These signals indicate that ships may be exposed to danger after leaving the harbour.
20a	20a	Port will experience severe weather from a severe cyclone expected to move keeping the port to the left of its track. This signal indicates that the port itself and the ships in it are in danger.
19a*	19a*	Port will experience severe weather from a cyclone expected to move over or close to the port. This signal is also hoisted when a storm is expected to skirt the coast without (actually) crossing it.
17a	17a	Port will experience severe weather from a cyclone expected to move keeping the port to the left of its track. These signals indicate that the port itself and the ships in it are in danger.

SIGNALS		Specifications Remarks
Day	Night	

3a*	3a*	<p>Port is threatened by squally weather.</p> <p>Squally weather is meant to cover occasional or frequent squalls with rain or persistent type of strong gusty wind (mean wind speed not less than 20 knots) accompanied by rain. Such conditions are associated with low pressure systems or onset and strengthening of monsoon. Mean wind speeds exceeding 33 knots associated with cyclonic storms are generally covered by signals higher than 3a.</p>
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* BRIEF SYSTEM: In the brief system only one of the five signals marked by an asterisk of the general system is hoisted, and the Port Officers are kept informed of the prospects of local bad weather associated with any disturbance in the sea, for the general information of shipping.

EXTENDED SYSTEM: Special signals, in addition to those of the general system, are exhibited at certain ports in the bay of Bengal belonging to the extended system. If the port itself is threatened, the appropriate local signals of the general system are hoisted. But, if there is an area of squally weather or a storm that does not threaten the port, the distant cautionary or distant warning signal of the general system is hoisted under the distant signals, to indicate the position of the disturbance in the Bay. The following shapes, when hung below a distant cautionary or warning signal, become locality signals, indicating the six divisions into which the bay of Bengal has been divided for this purpose.

Signal: 3a 10a 24a 16a 2a 23a
 Section: I II III IV V VI

The divisions are as indicated on the chart given on page D-D-II-9. Thus, if there is squally weather in Section IV of the Bay, the signal 25a would be hoisted at the various ports; and if a storm has formed in Section II, the signal 11a would be hoisted at all ports which were not directly threatened. As already stated, the ports directly threatened would hoist either one of the local signals. The Meteorological Department endeavours to keep the number of locality signals on each hoist as small as possible, and generally the number of only that section in which the centre of the storm is situated is given in the Warning Telegram.

Examples:

Storm centre	Locality signals
Latitude 16°N - Longitude 86°E	II
Latitude 16°N - Longitude 88°E	II & III
Latitude 16°N - Longitude 89°E	III & II
Latitude 18°N - Longitude 87°30'E	II, I & III
Latitude 19°N - Longitude 89°30'E	I, III & II

If however, the center of the storm is near the boundary of a division, the hoisting of two locality signals is requested, the first indicating the division in which the center is thought to be situated and the second the division nearest to the first. In the event of a storm center being near the corner where three divisions meet, the hoisting of three locality signals is requested, the first indicating the division in which the storm is estimated to be centered, the second the nearest adjoining division, and the third the remaining division.

(1) Radio warnings largely used.

ISRAEL

1a-5a (inclusive/inclus)	1a-5a (inclusive/inclus)	These signals are in use
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8a	8a	<p>These signals are not used</p> <p>See International Visual Storm Warning Signals.</p>
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(1) Gale will usually develop within 10 hours of the time of hoisting the signal. Signal is lowered when gale has passed and a period of not less than 12 hours free from gales is expected. Visual storm warning signals are displayed in Haifa Port.

ITALY

3a	3a	Phenomenon arriving from SW quadrant
5a	5a	Phenomenon arriving from SE quadrant
15a	15a	Phenomenon arriving from all directions
4a	4a	Phenomenon arriving from NE quadrant
2a	2a	Phenomenon arriving from NW quadrant

JAMAICA

39a	39a	Gale warnings: winds within the range 34-47 knots.
56a	56a	Small craft warning: winds and seas or sea conditions are only dangerous to small craft operations. Winds range from 25-34 knots.

SIGNALS		Specifications Remarks
Day	Night	
41a	41a	Hurricane warnings: winds above 63 knots.
40a	40a	Whole gale warning: winds within the range 48-63 knots.

MADAGASCAR

See International Visual Storm Warning Signals.

MALAYSIA

For national coastal waters, visual strong wind and rough sea warnings at Kuala Trengganu and Tumpat. Notice board display of information on strong wind and rough sea at Mersing and various fisheries departments in Pahang.

MALTA

4a	4a	Moderate Gregale Indicates risks of winds between North and East of force 5 to 7.
Three black cones pointed up	Three black cones pointed up	Strong Gregale Indicated risks of winds between North and East of force 8 or over.
2a	2a	Gale or strong winds North Cone: Indicates gales or strong winds of force 8 expected from between West and East through North.
3a	3a	Gale or strong winds South Cone: Indicates gales or strong winds of force 8 expected from between East and West through South.
1a	1a	Scend Warnings Such a warning indicates that a wind of force 5 or more, between 10° and 120°, is expected in all parts of the Harbour (Valletta). A scend warning signal is also to be used after a gregale warning has been cancelled until such time as the sea has fallen below 5 feet.

MAURITANIA

See International Visual Storm Warning Signals.

MOZAMBIQUE

7a	7a	International specification.
10a	10a	Cyclone in the Mozambique Channel.
3a	3a	Gale or storm from the SW quadrant.
2a	2a	Gale or storm from the NW quadrant.
1a	1a	Gale or storm from undetermined direction.
15a	15a	Probability of gale, storm or cyclone.
4a	4a	Gale or storm from the NE quadrant.
6a	6a	International specification.
5a	5a	Gale or storm from the SE quadrant.

MYANMAR

23a*	23a*	Communications with the Meteorological Warning Centre have broken down, and the local officer considers that there is danger of bad weather. Local failure of communications signal.
3a*	3a*	The port is threatened by squally weather. Local cautionary signal.
10a	10a	A storm has formed. Distant warning signal.
16a	16a	There is a region of squally weather in which a storm may be forming. Distant cautionary signal.

SIGNALS		Specifications
Day	Night	Remarks
22a*	22a*	The port will experience severe weather from a storm, of great intensity, that expected to cross over or near to the port. Local great danger signal.
17a	17a	The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross the coast to the south of the port (or to the east in the case of Yangon, Bassein and Diamond Island). Local danger signal.
18a	18a	The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross the coast to the north of the port (or to the west in the case of Yangon and Moulmein). Local danger signal.
19a*	19a*	The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross over or near to the port. Local danger signal.
21a	21a	The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast to the north of the port (or to the west in the case of Yangon and Moulmein). Local great danger signal.
2a*	2a*	The port is threatened by a storm, but it does not appear that the danger is as yet sufficiently great to justify extreme measures of precaution. Local warning signal. The existence of a storm can often be determined before its direction of motion can be fixed. In this case all those ports which the storm could possibly strike are warned by this signal.
20a	20a	The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast to the south of the port (or to the east in the case of Yangon, Bassein and Diamond Island) Local great danger signal.

NETHERLANDS

International specification
These signals apply to winds of force 8 Beaufort or more.

International specification
These signals apply to winds of force 8 Beaufort or more.

International specification
These signals apply to winds of force 8 Beaufort or more.
Strong wind (28-33 kt) any direction.
These signals apply to winds of force 7 Beaufort.

International specification
These signals apply to winds of force 8 Beaufort or more.

Note: Night signals are displayed at Flushing, Hook of Holland, Ymuiden, Del Helder and Terschelling. Day signals are not displayed.

NETHERLANDS ANTILLES

40a	40a	Gale warning: winds 39 miles an hour (34 kt) and upwards. This signal is the only one used in Curaçao, Aruba and Bonaire.
41a	41a	Hurricane warning: winds 74 miles an hour (64 kt) and upwards. These signals are used in the islands: St. Maarten, Saba and St. Eustatius (parts of the Netherlands Antilles).
40a	40a	Whole gale warning: winds within the range 55 to 73 miles an hour (48 to 63 kt). These signals are used in the islands: St. Maarten, Saba and St. Eustatius (parts of the Netherlands Antilles).
39a	39a	Gale warning: winds within the range 39-54 miles an hour (34-47 kt) These signals are used in the islands: St. Maarten, Saba and St. Eustatius (parts of the Netherlands Antilles).
56a	56a	Small craft warning: winds and seas or sea conditions are only dangerous to small craft operations. Winds range up to 38 miles an hour (33 kt). These signals are used in the islands: St. Maarten, Saba and St. Eustatius (parts of the Netherlands Antilles).

SIGNALS		Specifications Remarks
Day	Night	

NIGERIA

See International Visual Storm Warning Signals.

NORWAY

3a	3a	Gale (wind 28-40 kt) commencing in the SW quadrant This signal applies to winds of force 7-8 Beaufort.
4a	4a	Gale (wind 28-40 kt) commencing in the NE quadrant This signal applies to winds of force 7-8 Beaufort.
5a	5a	Gale (wind 28-40 kt) commencing in the SE quadrant. This signal applies to winds of force 7-8 Beaufort.
30a	30a	Storm (wind 41-71 kt) commencing in the NW quadrant. This signal applies to winds of force 9-12 Beaufort.
31a	31a	Storm (wind 41-71 kt) commencing in the SW quadrant This signal applies to winds of force 9-12 Beaufort.
32a	32a	Storm (wind 41-71 kt) commencing in the NE quadrant This signal applies to winds of force 9-12 Beaufort.
33a	33a	Storm (wind 41-71 kt) commencing in the SE quadrant This signal applies to winds of force 9-12 Beaufort.
1a	1a	Gale or storm without indication of direction.
2a	2a	Gale (wind 28-40 kt) commencing in the NW quadrant This signal applies to winds of force 7-8 Beaufort.

PAKISTAN

22a (Signal No. X)	22a (Signal No. X)	Severe weather from a storm, of great intensity, expected to cross over or near to the port.
23a (Signal No. XI)	23a (Signal No. XI)	Communications with the Meteorological Warning Centre have broken down, and the local officer considers there is danger of bad weather. Indicates that the port itself and the ships in it are in danger.
18a (Signal No. VI)	18a (Signal No. VI)	Severe weather from a storm, of slight or moderate intensity, expected to cross the coast to north or west of port. Indicates that the port itself and the ships in it are in danger.
19a (Signal No. VII)	19a (Signal No. VII)	Severe weather from a storm, of slight or moderate intensity, expected to cross over or near to the port.
20a (Signal No. VIII)	20a (Signal No. VIII)	Severe weather from a storm, of great intensity, expected to cross the coast to south or east of port.
21a (Signal No. IX)	21a (Signal No. IX)	Severe weather from a storm, of great intensity, expected to cross the coast to north or west of port. Indicates that the port itself and the ships in it are in danger.
3a (Signal No. III)	3a (Signal No. III)	Port is threatened by squally weather. Port itself and the ships in it are in danger.
2a (Signal No. IV)	2a (Signal No. IV)	Port is threatened by storm.
10a (Signal No. II)	10a (Signal No. II)	A storm has formed. Indicate that ship may be exposed to danger after leaving harbour.
16a (Signal No. I)	16a (Signal No. I)	Region of squally weather where storm may be forming. Distant cautionary signal.
17a (Signal No. V)	17a (Signal No. V)	Severe weather from a storm, of moderate intensity, expected to cross the coast to south or east of port.

* Radio warnings largely used.

PHILIPPINES

See International Visual Storm Warning Signals.

SIGNALS		Specifications
Day	Night	Remarks
PORTUGAL		
2a	2a	Gale and storm commencing in the NW quadrant This cone applies to winds of force 8 Beaufort (34-40 kt) or more.
10a	10a	Special signal used on the southern coast of Portugal to the Levant in the Strait of Gibraltar Wind Waves from Southeast 2 metres or more.
8a	8a	Hurricane with wind of force 12 Beaufort (64 kt and above) from any direction
7a	7a	Wind expected to back (counter-clockwise change in direction)
6a	6a	Wind expected to veer (clockwise change in direction)
5a	5a	Gale and storm commencing in the SE quadrant This cone applies to winds of force 8 Beaufort (34-40 kt) or more.
4a	4a	Gale and storm commencing in the NE quadrant This cone applies to winds of force 8 Beaufort (34-40 kt) or more.
3a	3a	Gale and storm commencing in the SW quadrant This cone applies to winds of force 8 Beaufort (34-40 kt) or more.
1a	1a	Near gale any direction. This signal applies to wind force 7 Beaufort (28-33 kt).
PORTUGAL (AZORES)		
15a	15a	Hurricane
PUERTO RICO		
41a	41a	Hurricane warning: winds 74 miles an hour (64 kt) and upwards when in connection with a tropical cyclone. 1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio. 2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".
39a	39a	Gale warning: winds within the range 39 to 54 miles an hour (34 to 47 kt). 1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio. 2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".
40a	40a	Storm warning: wind 55 miles an hour (48 kt) and upwards, except that when winds are associated with a tropical cyclone, HURRICANE warnings will be hoisted for winds 74 miles an hour (64 kt) and upwards. (See "Hurricane warning" below). 1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio. 2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".

SIGNALS		Specifications Remarks
Day	Night	
56a	56a	<p>Small Craft Advisory: weather or sea conditions (either present or forecast), sustained for more two hours, that might be hazardous to small boats. Mariners learning of a Small Craft Advisory are urged to determine immediately the reason by tuning their radios to the latest marine broadcasts. Decision as to the degree of hazard will be left up to the boatmen, based on his experience and size and type of boat. The threshold conditions for the Small Craft Advisory are usually 18 knots of wind (less than 18 knots in some dangerous waters) or hazardous wave conditions.</p> <p>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</p> <p>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</p>

REPUBLIC OF KOREA

No visual storm warning signals at present. Radio warnings largely used.

SAINT KITTS AND NEVIS

40a	40a	<p>Winds 34-63 kt. Signals used in St. Kitts, Nevis, Anguilla.</p>
41a	41a	<p>Winds above 63 kt. Signals used in St. Kitts, Nevis, Anguilla.</p>
56a	56a	<p>Winds 28-33 kt. Signals used in St. Kitts, Nevis, Anguilla.</p>

SAINT LUCIA

56a	56a	<p>Winds 28-33 kt Signals used in Saint Lucia</p>
41a	41a	<p>Winds above 63 kt. Signals used in Saint Lucia.</p>
39a	39a	<p>Winds 34-48 kt Signals used in Saint Lucia.</p>
40a	40a	<p>Winds 49-63 kt Signals used in Saint Lucia.</p>

SAINT VINCENT AND THE GRENADINES

41a	41a	<p>Definite warning: hurricane will affect island. Signals used in St. Vincent.</p>
40a	40a	<p>A cautionary warning: possibility of storm or hurricane affecting island. Signals used in St. Vincent.</p>

SAMOA

35a	35a	<p>Storm/hurricane alert. A tropical cyclone of storm or hurricane intensity exists and may affect the locality within 24 or 36 hours.</p>
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SENEGAL

See International Visual Storm Warning Signals.

SINGAPORE

No visual storm warning signals at present.

SOUTH AFRICA

3a	3a	<p>Gale winds from SW Cones are used in daytime in accordance with International System, at Cape Town, Port Elizabeth and Mossel Bay.</p>
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SIGNALS		Specifications Remarks
Day	Night	
2a	2a	Gale winds from NW Cones are used in daytime in accordance with International System, at Cape Town, Port Elizabeth and Mossel Bay.
4a	4a	Gale winds from NE Cones are used in daytime in accordance with International System, at Cape Town, Port Elizabeth and Mossel Bay.
5a	5a	Gale winds from SE Cones are used in daytime in accordance with International System, at Cape Town, Port Elizabeth and Mossel Bay.

SRI LANKA

53a	53a	Hoisted at the Colombo Pilot Station.
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THAILAND

43a	43a	Area 3: Andaman Sea bounded by west coast of southern Myanmar, west coast of southern Thailand. Long. 97°E, Lat. 5°N and Lat. 14°N. Signals indicating the locality of storms.
51a	51a	Area 4: South China Sea bounded by southern Viet Nam coast, Lat. 12°N, Lat. 5°N, Long. 105°E and Long. 112°E Signals indicating the locality of storms.
37a	37a	Area 1: Gulf of Thailand east coast to Lat. 5°N and Long. 105°E. Signals indicating the locality of storms.
56a	56a	Typhoon or cyclone or storm with wind speeds near center 64 kt and upwards.
36a	36a	Tropical storm or storm with wind speeds near center from 34 kt and over but not exceeding 63 kt.
35a	35a	Tropical depression or storm with wind speeds near center not exceeding 33 kt.
38a	38a	Area 2: Gulf of Thailand west coast to Lat. 5°N. Signals indicating the locality of storms.

Note: 1. Signals indicating the occurrence of storms in the Gulf of Thailand and adjacent seas to be displayed at:

- Port Area (Bangkok)
- Bangkok Harbour Limit I (Pong Pachjamit Port, Pagklongsarn, Dhonburi)

2. Signals indicating the intensity and locality of storms will be hoisted on the same yard-arm with the pennant indicating the intensity and the flag indicating the locality of the storm. The flag is always hoisted below the pennant.

At normal weather conditions (no tropical depression of storm or typhoon) the white pennant with red circle (52a) will be displayed at the upper yard-arm at Bangkok Harbour Limit I (Pong Pachjamit Port, Pagklongsarn, Dhonburi).

* Signals indicating the intensity of storms.

TOGO

See International Visual Storm Warning Signals.

TRINIDAD AND TOBAGO

8a	8a	See International Signal for hurricane warning. Used at all officially designated ports in Trinidad and Tobago.
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TUNISIA

No visual storm warning signals at present.

TURKS AND CAICOS ISLANDS

40a	40a	A tropical storm or hurricane is expected to strike within twelve hours.
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SIGNALS		Specifications Remarks
Day	Night	

UNITED STATES OF AMERICA

56a	56a	<p>Small Craft Advisory: weather or sea conditions (either present or forecast), sustained for more two hours, that might be hazardous to small boats. Mariners learning of a Small Craft Advisory are urged to determine immediately the reason by tuning their radios to the latest marine broadcasts. Decision as to the degree of hazard will be left up to the boatmen, based on his experience and size and type of boat. The threshold conditions for the Small Craft Advisory are usually 18 knots of wind (less than 18 knots in some dangerous waters) or hazardous wave conditions.</p> <p>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</p> <p>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</p>
41a	41a	<p>Hurricane warning: winds 74 miles an hour (64 kt) and upwards when in connection with a tropical cyclone.</p> <p>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</p> <p>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</p>
40a	40a	<p>Storm warning: wind 55 miles an hour (48 kt) and upwards, except that when winds are associated with a tropical cyclone, HURRICANE warnings will be hoisted for winds 74 miles an hour (64 kt) and upwards. (See "Hurricane warning" below).</p> <p>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</p> <p>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</p>
39a	39a	<p>Gale warning: winds within the range 39 to 54 miles an hour (34 to 47 kt).</p> <p>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</p> <p>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</p>

SIGNALS		Specifications Remarks
Day	Night	

UNITED STATES OF AMERICA (HAWAII)

40a	40a	<p>Storm warning: wind 55 miles an hour (48 kt) and upwards, except that when winds are associated with a tropical cyclone, HURRICANE warnings will be hoisted for winds 74 miles an hour (64 kt) and upwards. (See "Hurricane warning" below)</p> <p>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</p> <p>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</p>
41a	41a	<p>Hurricane warning: winds 74 miles an hour (64 kt) and upwards when in connection with a tropical cyclone</p> <p>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</p> <p>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</p>
56a	56a	<p>Small Craft Advisory: weather or sea conditions (either present or forecast), sustained for more two hours, that might be hazardous to small boats. Mariners learning of a Small Craft Advisory are urged to determine immediately the reason by tuning their radios to the latest marine broadcasts. Decision as to the degree of hazard will be left up to the boatmen, based on his experience and size and type of boat. The threshold conditions for the Small Craft Advisory are usually 18 knots of wind (less than 18 knots in some dangerous waters) or hazardous wave conditions.</p> <p>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</p> <p>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</p>
39a	39a	<p>Gale warning: winds within the range 39 to 54 miles an hour (34 to 47 kt).</p> <p>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</p> <p>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</p>

CHAPTER 4

FOCAL POINT CONTACT INFORMATION:

PART A

METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

Metarea I

UNITED KINGDOM

20/03/2017

Mr Nick ASHTON
Key Account Manager
Met Office
127 Clerkenwell Road
London - EC1R 5LP
United Kingdom

Telephone: +44 1392 885402

Telefax: +44 20 7204 7479

Email: nick.ashton@metoffice.gov.uk

Metarea II

FRANCE

20/03/2017

Ms. Mireille MAYOKA
Météo-France
Direction des Opérations pour la Prévision
Prévision Marine et Océanographique
42, avenue Gaspard Coriolis
31057 Toulouse Cedex
France

Telephone: +33 5 61 07 82 91

Telefax: +33 5 61 07 82 09

Email: mireille.mayoka@meteo.fr

Metarea III

GREECE

20/03/2017

Mr Michail MYRSILIDIS
Head of Marine Section
Marine Section
Hellenic National Meteorological Service
14, El. Venizelou St.
Hellnikon Airport
GR-167 77 ATHENS
Greece

Telephone: +30 210 9699013

Telefax: +30 210 9628952

Email: michail.myrsilidis@emy.gr

Metarea IV

UNITED STATES OF AMERICA

20/03/2017

Mr Wayne PRESNELL
Marine and Coastal Weather Services
National Weather Service/National Oceanic Atmospheric
Administration
1325 East-West Highway
Silver Spring - MD 20910
United States

Telephone: +1 301 713 1677 (ext. 128)

Telefax: +1 301 713 1520

Email: Wayne.Presnell@noaa.gov

Metarea V

BRAZIL

20/03/2017

Commander Leonardo Diogo Silva
Director
Navy Hydrographic Center (CHM)
Environmental Predictions Division of Navy Hydrographic
Center (CHM)
Barao de Jaceguay street, no number Ponta da Armacao
Niteroi
24048-900 - RJ
Brazil

Telephone: +55 21 2189 3010

Telefax: +55 21 2189 3105

Email: secom@chm.mar.mil.br
emma@chm.mar.mil.br
diogo.silva@chm.mar.mil.br

Metarea VI

ARGENTINA

04/01/2018

Ms. Alicia Guadalupe CEJAS
Servicio Meteorológico Nacional
Av.Dorrego 4019 (C1425GBE)
Buenos Aires
Argentina

Telephone: +54 -11 5167 6767

Telefax: +54-11 5167 6709

Email: aqcejias@smn.gov.ar

METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

Metarea VII

SOUTH AFRICA

20/03/2017

Mr Johan STANDER
South African Weather Service
Weather Office,
P O Box 21,
International Airport
Cape Town - 7525
South Africa

Telephone: +27 (0) 21 935 5700

Telefax: +27 (0) 21 934 4590

Email: Johan.Stander@weathersa.co.za

Metarea VIII(N) - (North of Equator)

INDIA

30/03/2017

Ms. Neetha K. Gopal
Scientist 'E'
India Meteorological Department
National Weather Forecasting Centre
New Delhi 110 003
India

Telephone: +91 11 24635664

+91 11 43824334

Mobile: +91 9011975999

Telefax: +91 20 255 35 435

Email: neetha.kgopal@imd.gov.in
neethakgopal@yahoo.com

Metarea VIII(S) - (South of the Equator)

MAURITIUS

20/03/2017

Mr Renganaden VIRASAMI (alternate)
Divisional Meteorologist
Mauritius Meteorological Services
St Paul Road
Vacoas
Mauritius

Telephone: +230 6861031

Telefax: +230 6861033

Email: vganessen@yahoo.com

Metarea VIII - Tropical cyclone warnings west of 90E

LA REUNION

20/03/2017

Mr. Alain POUJOL
Météo France, Paris
Météo France, BP 4
97491 STE. CLOTILDE
France

Telephone: +33-2 62 92 11 00

Telefax: +33-2 62 92 11 47

Email: alain.poujol@meteo.fr

Metarea VIII (east of 90E) - Tropical Cyclone warnings

AUSTRALIA

06/04/2018

Ms Lucie BLOM
National Manager - Marine Weather Services
Australian Bureau of Meteorology
700 Collins Street
Docklands
GPO Box 1289
Melbourne
VIC 3001
Australia

Telephone: +61 3 9669 4768

Telefax:

Email: lucie.blom@bom.gov.au

Metarea IX

PAKISTAN

20/03/2017

Mr Hazrat MIR
Pakistan Meteorological Department
Met Complex,
University Road
Karachi-75270
Pakistan

Telephone: +92 21 99261404

Telefax: +92 21 99261405

Email: pakmet_islamabad@yahoo.com
hazratmir2015@yahoo.com
sarfarazmet@hotmail.com

METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

Metarea X

AUSTRALIA 06/04/2018

Ms Lucie BLOM
National Manager - Marine Weather Services
Australian Bureau of Meteorology
700 Collins Street
Docklands
GPO Box 1289
Melbourne
VIC 3001
Australia

Telephone: +61 3 9669 4768

Telefax:

Email: lucie.blom@bom.gov.au

Metarea XI

JAPAN 24/04/2018

Mr. Shigeharu Nishikawa
Senior Scientific Officer,
Administration Division,
Forecast Department
Japan Meteorological Agency, Tokyo
1-3-4 Otemachi Chiyoda-ku
100-8122 - Tokyo
Japan

Telephone:

Telefax:

Email: mms-jma@ml.kishou.go.jp

Metarea XI

CHINA (Issuing Service) 20/03/2017

Mr Wei ZHAO
Typhoon and Marine Weather Forecast Center
National Meteorological Centre (NMC)
China Meteorological administration (CMA)
Zhongguancun Nandajie No. 46, Haidian District
BEIJING 100081
China

Telephone: +86 10 58995841

Telefax: +86 10 6217 2956

Email: zhaowei@cma.gov.cn

Metarea XII

UNITED STATES OF AMERICA 20/03/2017

Mr Wayne PRESNELL
Marine and Coastal Weather Services
National Weather Service/National Oceanic Atmospheric
Administration
1325 East-West Highway
Silver Spring - MD 20910
United States

Telephone: +1 301 713 1677 (ext. 128)

Telefax: +1 301 713 1520

Email: Wayne.Presnell@noaa.gov

Metarea XIII

RUSSIAN FEDERATION 20/03/2017

Dr. Vasily SMOLYANITSKY
Head of Laboratory
Arctic and Antarctic Research Institute
Bering str., 38
St.Petersburg - 199397
Russian Federation

Telephone: +7 812 337-3149

Telefax: +7 812 337-3241

Email: vms@aari.ag

Metarea XIV

NEW ZEALAND 20/03/2017

Ms. Elke LOUW
Meteorological Service of New Zealand
30 Salamanca Rd
Kelburn
Wellington 6012
New Zealand

Note: Mr. Nicholas ZACHAR will replace Ms. Elke until
September 2016.

Telephone: +64 4 470 0737

Telefax: +64 4 473 5231

Email: elke.louw@metSERVICE.com

METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

Metarea XV

CHILE 10/04/2017

Luis VIDAL Lema
Capitán de Fragata OM
Head of Chile Navy Weather Service
Subida Cementerio 300
Playa Ancha
Valparaíso
Chile

Telephone: +56322208620

Telefax: +56322208621

Email: Lvidall@directemar.cl

Metarea XVI

PERU 16/04/2018

First lieutenant Giacomo MOROTE Somontes

Ms. Myrian TAMAYO Infantes (Alternata)
Dirección de Hidrografía y Navegación
Marina de Guerra del Perú
Calle Roca 118 - Chucuito
Callao
Perú

Telephone: +51 1 2078160

Telefax: +51 1 4530877

Email: gmorote@dhn.mil.pe
mtamayo@dhn.mil.pe

Metarea XVII

CANADA 20/03/2017

Mr John PARKER
Manager, Prediction and Training Section-Atlantic
Meteorological Service of Canada
Environment Canada
16th Floor, Queen Square, 45 Alderney Drive, Dartmouth
NS B2Y 2N6
Canada

Telephone: +1 902 426 3836

Telefax: +1 902 490 0259

Email: john.parker2@canada.ca

Metarea XVIII

CANADA 20/03/2017

Mr John PARKER
Manager, Prediction and Training Section-Atlantic
Meteorological Service of Canada
Environment Canada
16th Floor, Queen Square, 45 Alderney Drive,
Dartmouth NS B2Y 2N6
Canada

Telephone: +1 902 426 3836

Telefax: +1 902 490 0259

Email: john.parker2@canada.ca

Metarea XIX

NORWAY 20/03/2017

Mr Helge TANGEN
Regional Director
Norwegian Meteorological Institute
Forecasting Division of Northern Norway
The Norwegian Meteorological Institute, (Vervarslinga for
Nord-Norge)
P.box 6314 Langnes
NO-9293 Tromsø
Norway

Telephone: +47 77 62 13 00

Telefax: +47 77 62 13 01

Email: helge.tangen@met.no

Metarea XX

RUSSIAN FEDERATION 20/03/2017

Dr. Vasily SMOLYANITSKY
Head of Laboratory
Arctic and Antarctic Research Institute
Bering str., 38
St.Petersburg - 199397
Russian Federation

Telephone: +7 812 337-3149

Telefax: +7 812 337-3241

Email: vms@aari.ag

METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

Metarea XXI

RUSSIAN FEDERATION

20/03/2017

Dr. Vasily SMOLYANITSKY

Head of Laboratory

Arctic and Antarctic Research Institute

Bering str., 38

St.Petersburg - 199397

Russian Federation

Telephone: +7 812 337-3149

Telefax: +7 812 337-3241

Email: vms@aari.aq

PART B

**CONTACT POINTS FOR
SHIP WEATHER ROUTEING SERVICES
&
PORT METEOROLOGICAL OFFICERS**

**CONTACT INFORMATION FOR
PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES**

ARGENTINA

Port Meteorological Officers

Buenos Aires

Ms. Natalí Giselle Aranda (PMO, Buenos Aires)
Dorrego 4019 (C1425GBE)
ABN Buenos Aires
Argentina

Updated: 12/04/2018
Telephone: +54-11 5167 6767 int 18761
Telefax:
Telex:
Email: redes@smn.gov.ar
naranda@smn.gov.ar

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

AUSTRALIA

Port Meteorological Officers

Head Office

Ports/area Serviced: Melbourne, Geelong

Mr. Joel Cabrie
Team Leader, Marine Networks
Bureau of Meteorology
GPO Box 1289
Melbourne VIC 3001
Australia

Updated: 04/05/2018
Telephone: +61 3 9669 4651
Telefax: +61 3 9669 4168
Telex:
Email: joel.cabrie@bom.gov.au
marine_obs@bom.gov.au

http://www.bom.gov.au/marine/marine_obs.shtml

Main Port: Brisbane

Ports/area Serviced: Brisbane

Mr. Gavan Williams
Port Meteorological Officer Brisbane
Bureau of Meteorology
GPO Box 413
Brisbane QLD 4001
Australia

Updated: 04/05/2018
Telephone: +61 7 3239 8787
Telefax:
Telex:
Email: Gavan.Williams@bom.gov.au
portmetagents@bom.gov.au

http://www.bom.gov.au/marine/marine_obs.shtml

Main Port: Fremantle

Ports/area Serviced: All national ports

Mr. Ian Charlesworth
Senior Port Meteorological Officer
Bureau of Meteorology
PO Box 1370
Perth WA 6872
Australia

Updated: 04/05/2018
Telephone: +61 8 9263 2294
Telefax: +61 8 9263 2297
Telex:
Email: PMA.Fremantle@bom.gov.au
portmetagents@bom.gov.au

http://www.bom.gov.au/marine/marine_obs.shtml

Main Port: Fremantle

Ports/area Serviced: Fremantle, Kwinana

Mr. Craig Foster
Port Meteorological Officer Fremantle
Bureau of Meteorology
PO Box 1370
Perth WA 6872
Australia

Updated: 04/05/2018
Telephone: +61 8 9263 2292
Telefax: +61 8 9263 2297
Telex:
Email: PMA.Fremantle@bom.gov.au
portmetagents@bom.gov.au

http://www.bom.gov.au/marine/marine_obs.shtml

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Main Port: Melbourne**Ports/area Serviced: Melbourne, Geelong**

Mr. Justin Wood
Port Meteorological Officer Melbourne Bureau of
Meteorology
GPO Box 1636
Melbourne VIC 3001
Australia

Updated: 04/05/2018**Telephone:** +61 8 9263 2292**Telefax:** +61 8 9263 2297**Telex:****Email:** PMA.Melbourne@bom.gov.au
portmetagents@bom.gov.au

http://www.bom.gov.au/marine/marine_obs.shtml

Main Port: Sydney**Ports/area Serviced: Sydney, Newcastle, Port Kembla**

Mr. Jason Gleadhill
Port Meteorological Officer Sydney
Bureau of Meteorology
GPO Box 413
Darlinghurst NSW 1300
Australia

Updated: 04/05/2018**Telephone:** +61 2 9296 1552**Telefax:** +61 2 9296 1648**Telex:****Email:** PMA.Sydney@bom.gov.au
portmetagents@bom.gov.au

http://www.bom.gov.au/marine/marine_obs.shtml

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

BELGIUM

Port Meteorological Officers

Main Port: Antwerpen

Ports or area serviced: Gent, Zeebrugge

Mr. A.A. de Vries
Port Meteorological Officer
P.O. Box 201
3730 AE de Bilt
The Netherlands

Updated: 02/03/2016
Telephone: +31 30 2206851
Telefax:
Telex:
Email: Pmo.office@knmi.nl

Mr. René J. Rozeboom
Port Meteorological Officer
P.O. Box 201
3730 AE de Bilt
The Netherlands

Updated: 02/03/2016
Telephone: +31 30 2206 678
Telefax: --
Telex:
Email: Pmo.office@knmi.nl

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

BRAZIL

Port Meteorological Officers

Main port: Navy Hydrographic Center;
Port/area services: Niterói - Rio de Janeiro

Cdr. Leonardo Diogo da Silva
Head of Meteo-oceanographic Predictions Division
Centro de Hicrografia da Marinha
Rua Barão de Jaceguay, s/n, Ponta da Armação. Niterói -
RJ, Brasil. CEP: 24048-900.

Updated: 17/03/2017

Telephone: +55 (21) 2189-3027

Telefax: +55 (21) 2620-8861

Telex:

Email: meteorologia-oceanografia@chm.mar.mil.br

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

CANADA

Port Meteorological Officers

Burlington, Ontario

Mr. Shawn Rickard
Supervisor AMDS Ontario Regional Network Operations –
Burlington, Ontario
Environment Canada
Meteorological Service of Canada
Port Meteorological Office
2nd Floor CCIW North Annex
867 Lakeshore Rd.
Burlington, ON L7S 1A1
CANADA

Updated: 17/03/2017
Telephone: Office (905) 336-4672
Cell (905) 512-5862
Telefax: --
Telex: --
Email: Shawn.Rickard@canada.ca

Edmonton, Alberta

Mr. Mark Pyper
Supervisor, MSC Programs
Environment Canada
Meteorological Service of Canada
Technical Services Office
9345-49 Street
Edmonton Alberta
T6B 2L8
CANADA

Updated: 17/03/2017
Telephone: (780) 495-5472
Telefax: --
Telex: --
Email: Mark.Pyper@canada.ca

Halifax, Nova Scotia

Mr. Denis Erdely
Supervisor Marine and Newfoundland and Labrador
Networks
Environment Canada
Meteorological Service of Canada
3rd Floor, 45 Alderney Drive
Dartmouth, Nova Scotia
B2Y 2N6
CANADA

Updated: 17/03/2017
Telephone: Office: (902) 426-6616
Cell: (902) 402-8105
Telefax: (902) 426-6404
Telex: --
Email: Denis.Erdely@canada.ca

Montreal, Quebec

Mr. Erich GOLA
PMO/Technical Services Specialist
Environment Canada
Meteorological Service of Canada
Place Bonaventure
800 de la Gauchetière Ouest, #7810
Montréal, Quebec
H5A 1L9
CANADA

Updated: 17/03/2017
Telephone: (514) 283-1644
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Telex: --
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Vancouver, British Columbia

Mr. Dragan Radovic
Meteorological Technologist / PMO
Environment Canada
Meteorological Service of Canada
140-13160 Vanier Place
Richmond B.C.
V6V 2J2
CANADA

Updated: 17/03/2017
Telephone: Office: (604) 713-9523
Cell: (605) 340-215
Telefax: (604) 664-4094
Telex: --
Email: Dragan.Radovic@canada.ca

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Winnipeg, Manitoba

Mr. Greg Standsfield
Meteorological Technologist/Adviso
Environment Canada
Meteorological Service of Canada
123 Main Street, Suite 150
Winnipeg, Manitoba
R3C 4W2
CANADA

Updated: 17/03/2017

Telephone: (204) 983-6155

Telefax: --

Telex:

Email: Greg.Stansfield@canada.ca

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

CHILE

Port Meteorological Officers

Main Port: Iquique;
Ports/area serviced: Iquique

Lt. Carlos Gaete
Head of Iquique Meteorological Center
Jefe del Centro Meteorológico (I.)
Gobernación Marítima de Iquique
Jorge Barrera 98, Iquique
CHILE

Updated: 04/05/2018
Telephone: 56 (57) 24 01 946 / 24 01 971
Telefax: --
Telex:
Email: cgaete@directemar.cl

Main Port: Puerto Montt;
Ports/area serviced: Puerto Montt

Sra. Merle Donoso
Puerto Montt Meteorological Center
Centro Meteorológico (P.)
Gobernación Marítima de Puerto Montt
Avenida Angelmó 2201, Puerto Montt
CHILE

Updated: 04/05/2018
Telephone: 56 (65) 25 61 150 / 25 61 174
Telefax:
Telex:
Email: mdonosor@directemar.cl

Same PMO since 2012

Main Port: Punta Arenas;
Ports/area serviced: Punta Arenas

MSc. Angella Undurraga
Punta Arenas Meteorological Center
Centro Meteorológico (M.)
Gobernación Marítima de Punta Arenas
Gr. Bernardo O'Higgins 1169, Punta Arenas
CHILE

Updated: 04/05/2018
Telephone: 56 (61) 22 01 136 / 22 01 148
Telefax:
Telex:
Email: aundurraga@directemar.cl

Main Port: Talcahuano;
Ports/area serviced: Lirquén, Talcahuano, San Vicente, Coronel

Lt.Cdr. Gonzalo Concha
Head of Talcahuano Meteorological Center
Jefe del Centro Meteorológico (T.)
Gobernación Marítima de Talcahuano
Almirante Villarroel 107, Talcahuano
CHILE

Updated: 04/05/2018
Telephone: 56 (41) 22 66 136 / 22 66 157
Telefax:
Telex:
Email: gconcha@directemar.cl

Main Port: Valparaiso;
Ports/area serviced: Valparaiso, Quintero, San Antonio

Lt. Felipe Fernández
Valparaiso Meteorological Center
Centro Meteorológico (V.)
Gobernación Marítima de Valparaíso
Leopoldo Carvallo 150, Valparaíso
CHILE

Updated: 04/05/2018
Telephone: 56 (57) 24 01 946 / 24 01 971
Telefax:
Telex:
Email: ffernandez@directemar.cl

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

COSTA RICA

Weather Routeing Services

Meteorological Officer on Duty (MOD)
9-bis ave, 17 st,
P.O. Box 5583-1000
SAN JOSE
COSTA RICA

Updated: 30/06/2006
Telephone: +506 2231837
+506 2225616 ext. 133
Telefax: +506 2231837
+506 2578287
Telex:
Email: oraweb@imn.ac.cr
imn@imn.ac.cr

No ship weather routing service.
Advices for special cases of routing on request 1-day in advance

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

CROATIA

Port Meteorological Officers

Split

Port/Area serviced: Adriatic Sea

Captain Željko Šore
Captain / PMO
Glagoljaša 11,
21000 Spit,
Croatia

Updated: 28/05/2018
Telephone: +385 21 401 371
Telefax: +385 21 401 370
Telex:
Email: sore@cirus.dhz.hr

<http://meteo.hr>

Mr. Ružica Popovic
B.C.E. / PMO
Glagoljaša 11,
21000 Spit,
Croatia

Updated: 28/05/2018
Telephone: +385 21 401 370
Telefax: +385 21 401 370
Telex:
Email: popovic@cirus.dhz.hr

Mr. Denis Rašić
VOS -AWS/EUCAWS technical support
Glagoljaša 11,
21000 Spit,
Croatia

Updated: 28/05/2018
Telephone: +385 21 401 362
Telefax: +385 21 401 370
Telex:
Email: rasic@cirus.dhz.hr

Weather Routeing Services

Pomorski Meteoroloski Centar (Marine Meteorological
Centre)
Prilaz VIII korpusa 11
(Post Office Box No. 44)
SPLIT 58001
CROATIA

Updated: 13/11/1999
Telephone: +385 58 591033
+385 58 591466
Telefax: --
Telex: 26103 YUMETEOR
Email:

No usual ship weather routeing services.

Advices for special cases of routeing in Adriatic eastern area, according to local conditions, on request

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

DENMARK

Weather Routeing Services

Ms. Helge Wagner
Operation Manager
Danish Meteorological Institute
World Wide Weather Routeing
Lyngbyvej 100
2100 Copenhagen OE
DENMARK

Updated: 16/10/2003
Telephone: +45 39 157575
Telefax: +45 39 291212
Telex: 27138
Email: routeing@dmi.dk

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

ECUADOR

Port Meteorological Officers

Ms. Leonor Vera
Ministerio de Defensa Nacional (MIDENA)
Av. 25 de Julio
Guayaquil
ECUADOR

Updated: 16/03/2017
Telephone:
Telefax: --
Telex:
Email: leonor.vera@inocar.mil.ec

Weather Routeing Services

PTO. AYORA (GALAPAGOS)
INOCAR-BASE NAVAL SUR
AV. 25 DE JULIO
MANTA
GUAYAQUIL
ECUADOR

Updated: 28/06/2006
Telephone: +593 4 2481300
Telefax: +593 4 2485166
Telex:
Email: inocar@inocar.mil.ec

2°N-4°S AND 78°-95°W; Additional route 2°S-90°W - 63°S-58°W; PACIFIC AND ATLANTIC

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

FALKLAND ISLANDS (MALVINAS)

Port Meteorological Officers

Falklands/Malvinas

Capt R. GORBUTT
PMO
Marine Officer
Fishery Protection Office
Port Stanley
Falklands
Falkland Islands Malvinas

Updated: 10/11/2011
Telephone: +500 27260
Telefax: +500 27265
Telex: 2426 FISHDIR FK
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

FINLAND

Port Meteorological Officers

Helsinki

Ms Marja AARNIO-FRISK
Head of Group
Finnish Meteorological Institute
Port Meteorological Offices
P.O. Box 503
FI00101 HELSINKI
Finland

Updated: 29/01/2015
Telephone: +358 295391000
Telefax: +358 295393303
Telex:
Email: marja.aarnio@fmi.fi

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

FRANCE

Port Meteorological Officers

Main Port: Aix en Provence;**Ports/Areas serviced: Marseille – Fos sur Mer – Toulon – La Seyne sur Mer**

Mr. Michel PÉRINI
Chef technicien
Météo-France – DIR Sud-Est
OBS/RESEAU – Bureau de port
2, Bd Château double
13098 Aix En Provence Cedex 02
FRANCE

Updated: 04/05/2018
Telephone: 00 33 4 42 95 90 15
Telefax: 00 33 4 42 95 90 09
Telex:
Email: michel.perini@meteo.fr

Main Port: Bordeaux**Ports/Areas serviced: Bordeaux**

Mr. Philippe GAUTIER
Chef technicien
Météo-France
Direction Inter Régionale Sud-Ouest
7, avenue Roland Garros
33692 Mérignac CEDEX
FRANCE

Updated: 04/05/2018
Telephone: 00 33 5 57 29 12 06
Telefax: 00 33 5 57 29 12 05
Telex:
Email: philippe.gautier@meteo.fr

Main Port: Boulogne-sur-mer**Ports serviced: Boulogne**

Mr. Gérard DOLIGEZ
Ingénieur des travaux
Station météorologique
17, Bd Sainte Beuve
62200 Boulogne sur Mer
FRANCE

Updated: 04/05/2018
Telephone: 00 33 3 21 10 85 10
Telefax: 00 33 3 21 10 85 14
Telex:
Email: gerard.doligez@meteo.fr

Main Port: Brest;**Ports/Areas serviced: Brittany (Brest – Lorient – St Malo – Roscoff...)**

Mr. Bruno Maze
Technicien supérieur
Centre Météorologique de Brest
245 route de l'aéroport
29490 GUIPAVAS
FRANCE

Updated: 04/05/2018
Telephone: 00 33 2 98 32 55 61
Telefax: 00 33 2 98 84 87 50
Telex:
Email: bruno.maze@meteo.fr

Main Port: La Réunion – Ste-Clotilde;**Ports/Areas serviced: La Réunion**

Mr. Jean-Luc DEKUSSCHE
Chef technicien
Météo-France DIROI
50, Bd du Chaudron
97490 Sainte Clotilde
FRANCE

Updated: 04/05/2018
Telephone: 00 33 2 62 92 11 30
Telefax: 00 33 2 62 92 11 47
Telex:
Email: jean-luc.dekussche@meteo.fr

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Main Port: Le Havre
Ports/Areas serviced: Le Havre – Rouen

Mr. Fabien DEBRAY
Chef technicien
Centre Météo Le-Havre
Boulevard Lucien Corbeaux
Batiment portuaire 3815
76600 Le-Havre
FRANCE

Updated: 04/05/2018
Telephone: 00 33 2 32 74 03 65
Telefax: 00 33 2 32 74 03 61
Telex:
Email: fabien.debray@meteo.fr

Main Port: Nouméa;
Ports/Areas serviced: Nouméa

Franck LAVAUD
Technicien supérieur
Station météorologique
BP 151
98845 Nouméa Port
FRANCE

FRANCE

Updated: 04/05/2018
Telephone: 00 687 27 93 12
Telefax: 00 687 27 93 27
Telex:
Email: franck.lavaud@meteo.fr

Main Port: Papeete
Ports/Areas serviced: Papeete

Mr. Hirohiti Lo
Chef technicien
Météo-France DIR Polynésie Française
BP 6005
98702 Faa'a Aéroport
FRANCE

Updated: 04/05/2018
Telephone: 00 689 80 33 53
Telefax: 00 689 80 33 64
Telex:
Email: hirohiti.lo@meteo.fr

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

GAMBIA

Port Meteorological Officers

Main Port: Banjul**Ports or area serviced: Banjul Port**

Mr. Momodou Njie
Meteorological Technician / PMO
7 Marina Parade
Banjul
The Gambia

Updated: 15/03/2016
Telephone: +220 7033871/ 9828783/ 3928783
Telefax:
Telex:
Email: njaipm@yahoo.co.uk

Mr. Omar Gaye Cham
Meteorological Assistant / PMO
7 Marina Parade
Banjul
The Gambia

Updated: 15/03/2016
Telephone: +220 6729664
Telefax: --
Telex:
Email: oqcham@hotmail.com

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

GERMANY

Port Meteorological Officers

Main Port: Bremerhaven;
Ports or area serviced: Bremerhaven and North Sea

Mr. Cord GRIMMERT
PMO
Deutscher Wetterdienst
An der neuen Schleuse 10 b
27570 Bremerhaven
Germany

Updated: 11/05/2018
Telephone: +49 471 700 4018
Telefax: +49 471 700 4017
Telex:
Email: pmo@dwd.de

Main Port: Hamburg (E-ASAP, German ASAP)
Ports/area serviced: Hamburg and other ports
(E-ASAP, German ASAP)

Mr Harald Budweg
PMO
Bernhard-Nocht-Strasse 76
20359 Hamburg
Germany

Updated: 16/03/2017
Telephone: +49 69 8062 6314
Telefax: +49 69 8062 6319
Telex:
Email: Harald.Budweg@dwd.de

EUMETNET

Main Port: Hamburg;
Ports or area serviced: Hamburg and Baltic Sea

Ms Susanne RIPKE
PMO
Deutscher Wetterdienst
Bernhard-Nocht-Strasse 76
20359 Hamburg
Germany

Updated: 11/05/2018
Telephone: +49 69 8062 6313
Telefax: +49 69 8062 6319
Telex:
Email: pmo@dwd.de

Mr. Horst von Bargaen
PMO
Deutscher Wetterdienst
Bernhard-Nocht-Strasse 76
20359 Hamburg
Germany

Updated: 11/05/2018
Telephone: +49 69 8062 6312
Telefax: +49 69 8062 6319
Telex:
Email: pmo@dwd.de

Mr. Matthias Hoigt
PMO
Deutscher Wetterdienst
Bernhard-Nocht-Strasse 76
20359 Hamburg
Germany

Updated: 11/05/2018
Telephone: +49 69 8062 6311
Telefax: +49 69 8062 6319
Telex:
Email: pmo@dwd.de

Main Port: Hamburg;
Ports or area serviced: Hamburg, Baltic Sea, North Sea

Mr. Henry Kleta
Marine Network Manager
Deutscher Wetterdienst
Bernhard-Nocht-Strasse 76
20359 Hamburg
Germany

Updated: 11/05/2018
Telephone: +49 69 8062 6310
Telefax: +49 69 8062 6319
Telex:
Email: henry.kleta@dwd.de

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Weather Routeing Services

Deutscher Wetterdienst
Bernhard-Nocht-Straße 76
Postfach 30 11 90
HAMBURG 20304
GERMANY

Updated: 28/06/2006
Telephone: +4940 66901811
Telefax: +49 40 6690 1947
Telex: 211 291 hadw d
Email: routing@dwd.de

The German Weather Service in Hamburg offers ship weather routeing for all oceans.

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

GHANA

Weather Routeing Services

Principal Meteorological Officer
Ghana Meteorological Services Department
P.O. Box 87
Legon
GHANA

Updated: 13/11/1999
Telephone: +233 2276381
Telefax: --
Telex: DIRMETEO
Email:

No ship weather routeing services

**CONTACT INFORMATION FOR
PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES**

GIBRALTAR

Port Meteorological Officers

Gibraltar

PMO GIBRALTAR
Meteorological Office
RAF Gibraltar, BFPO 52
Gibraltar

Updated: 10/11/2011
Telephone: +350 53419
Telefax: +350 53474
Telex:
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

GREECE

Port Meteorological Officers

Main Port: Piraeus;**Area serviced: All ports within radius 60km from Piraeus**

Mr Michael MYRSILIDIS
Head of Marine Section / PMO Supervisor
El.Venizelou 14, Hellinikon
16777 ATHENS
Greece

Updated: 11/05/2018
Telephone: +30 2109699013
Telefax: +30 2109628952
Telex:
Email: michail.myrsilidis@emy.gr

www.hnms.gr or www.emy.gr

Ms Dionysia KOTTA
Marine Section Officer / PMO
El.Venizelou 14, Hellinikon
16777 ATHENS
Greece

Updated: 11/05/2018
Telephone: +30 2109699113
Telefax: +30 2109628952
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Email: dionysia.kotta@hnms.gr

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

GADELOUPE, ST. MARTIN, ST. BARTHELEMY

Port Meteorological Officers

Main Port: Guadeloupe – Pointe à Pitre
Ports/Areas serviced: Pointe à Pitre

Mr. Antoine MOUNAYAR
Chef technicien
Météo-France
Service Régional Météorologique de la Guadeloupe
Aéroport du Raizet - BP 451
97183 Les Abymes Cedex

Updated: 04/05/2018
Telephone: 00 33 590 89 60 86
Telefax: 00 33 590 89 60 75
Telex:
Email: antoine.mounayar@meteo.fr

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

HONG KONG, CHINA

Port Meteorological Officers

Main Port: Hong Kong, China;
Ports/area serviced: Hong Kong

Mr. LAU Dick-shum, Dickson
Port Meteorological Officer
Hong Kong Observatory
134A Nathan Road, Kowloon,
Hong Kong, China

Updated: 28/05/2018
Telephone: +852 2926 3113
Telefax: +852 2311 9448
Telex:
Email: hkopmo@hko.gov.hk

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

ICELAND

Port Meteorological Officers

Reykjavik

Mr Odinn TAORARINNSON
Head, Measurements
Icelandic Meteorological Office
Bústaðavegi 9
150 Reykjavík
Iceland

Updated: 10/11/2011
Telephone: +354 522 6000
Telefax: +354 522 6004
Telex:
Email: odinn@vedur.is

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

INDIA

Port Meteorological Officers

Chennai

Shri A.P.Prakashan
Port Meteorological Officer
Director in-charge,
Port Meteorological Office
Regional Meteorological Centre,
Inspectorate Section/PMO Unit,
New No.6,(Old No. 50), College Road,
Chennai - 600 006

Working Hours:
0930-1800 5 days week

Updated: 27/02/2013
Telephone: 044 28230092/94/91
Ext. Inspectorate Section: 230,231,234,332
Telefax: 044 28271581
(ACWC Chennai)
Telex:
Email: isrmcchennai@gmail.com
pmochennai@gmail.com

Goa

Shri N. Haridasan
Port Meteorological Officer
Director,
Port Meteorological Liaison Office,
Goa Observatory,
Altinho, Panjim
Goa - 403 001

Working Hours:
0930-1800 5 days week

Updated: 27/02/2013
Telephone: 0832 2425547
Mobile - Shri M. Haridasan A.M.I:
09579634860
Smt. V.V.Damle A.M.II: 08275877586
Telefax: 0832 2420161
Telex:
Email: directorimdgoa@gmail.com

Kochi

Shri M.Sethumadhavan
Port Meteorological Officer
Officer in charge,
Port Meteorological Office,
Cochin Port Trust,
Ex-Mahavir Plantation Building,
Opp. IOC Ltd.,Indira Gandhi Road,
Willingdon Island, (South)
Kochi - 682 003

Working Hours: 0900-1730

Updated: 27/02/2013
Telephone: 0484 2667042
Mobile: 09446478262 &
Mobile - Shri V.L.Rajendran,S.A.:
09495779897
Telefax: NA
Telex:
Email: pmokochi@dataone.in

Kolkata

Shri. Ganesh Kumar Das
Port Meteorological Officer
Director I/C,
Regional Meteorological Centre,
4 Duel Avenue, Alipore,
Kolkata (West Bengal), PIN 700027

Working Hours: 0930-1800 5 days week

Updated: 27/02/2013
Telephone: 033 24492559
Mobile - c/o Shri G.K.Das: 09836213781
Telefax: 033 24793167
Telex:
Email: pmokolkata@gmail.com

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Mumbai

K.S. Hosalikar
Scientist - F
Deputy Director General of Meteorology,
India Meteorological Department,
Regional Meteorological Centre,
Mumbai - 400 005
India

Updated: 20/06/2017
Telephone: Mobile: +919167331299
Telefax: 91-22-22150517
Telex:
Email: Ks_hosalikar@yahoo.co.in

Working Hours: 0930-1800 5 days week

Visakhapatnam

Shri E. N. S. Sagar
Port Meteorological Officer
Director I/C,
Port Meteorological Office,
Cyclone Warning Center,
Kirlumpudi,
Opposite Andhra University out gate,
Vishakhapatnam - 530 017

Updated: 27/02/2013
Telephone: 0891-2543031/32/34/35/36
Mobile - c/o Shri E. N. S. Sagar:
09885256279
Telefax: 0891-2543033
0891-2543036
Telex:
Email: cwcvsk@gmail.com

Working Hours: 0930-1800 5 days week

Weather Routeing Services

Dr. V. Thapliyal
Deputy Director General of Meteorology
(Weather Forecasting)
Pune-5
Lodhi Road
New Delhi 110003
INDIA

Updated: 13/11/1999
Telephone: +91 20 5535886
Telefax: 91 20 5533201
Telex: 1457792
Email: imd pune@pn3.vsnl.in

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

INDONESIA

Port Meteorological Officers

Main port: Marine Meteorological Station – Tanjung Priok
Ports/area serviced: Tanjung Priok Port

Yudi Suryadarma
Head of Data and Information
Jl. Padang Marang 4 Pelabuhan Tanjung Priok
Jakarta Utara 14310
Indonesia

Updated: 15/03/2016
Telephone: 62-21-43901650
Telefax: 62-21-4351366
Telex:
Email: stamar.tanjungpriok@bmkq.go.id

Main port: Marine Meteorological Station-Kendari, Southeast Sulawesi
Ports/area serviced: Kendari Port

Aris Yunatas
Head of Data and Information
Jl. Jendral Sudirman No. 158 Kendari - Southeast
Sulawesi 93127
Indonesia

Updated: 15/03/2016
Telephone: 62-401-3131479
Telefax: 62-401-3128528
Telex:
Email: stamarkendari@gmail.com

Main port: Marine Meteorological Station-Paotere Makassar, South Sulawesi
Ports/area serviced: Makassar Port

Purwanto
Head of Data and Information
Jl. Sabutung I No. 30 Paotere - Makassar
Indonesia

Updated: 15/03/2016
Telephone: 62-411-319242
Telefax: 62-411-328235
Telex:
Email: stamar.paotere@bmkq.go.id

Main port: Marine Meteorological Station-Tanjung Emas, Semarang Central Java
Ports/area serviced: Tanjung Emas Port

Retno Widyaningsih
Head of Data and Information
Jl. Deli No.3 Pelabuhan Tanjung Emas-
Semarang Indonesia
Indonesia

Updated: 15/03/2016
Telephone: 62-24-3559194
Telefax: 62-24-3549050
Telex:
Email: stamar.semarang@bmkq.go.id

Main port: Marine Meteorological Station-Tanjung Perak
Ports/area serviced: Tanjung Perak Port

Bambang Setiaji
Head of Data and Information
Jl. Kalimas Baru 97B Perak Surabaya
Indonesia

Updated: 15/03/2016
Telephone: 62-31-3291439
Telefax: 62-31-3291439
Telex:
Email: stamar.perak2@bmkq.go.id

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

IRELAND

Port Meteorological Officers

Main Port: Cork;**Ports/area serviced: Cork Office is responsible for Cork and the south coast of Ireland**

Mr Brian DOYLE
Principal Meteorological Officer
Met Éireann
Old Control Tower
Cork Airport
Cork
Ireland

Updated: 16/03/2017
Telephone: +353-21-4917753
Telefax: +353-21-4317405
Telex:
Email: brian.doyle@met.ie

Ireland

Main Port: Dublin;**Ports/area serviced: Dublin Office is responsible for all coasts of Ireland**

Mr Columba CREAMER
PMO
Met Éireann
Glasnevin Hill
Dublin 9
Ireland

Updated: 16/03/2017
Telephone: +353-1-8064228
Telefax: +353-1-8064247
Telex:
Email: Columba.creamer@met.ie

Online www.met.ie

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

ISRAEL

Port Meteorological Officers

Main Port: Haifa, Ashdod

Ms Lilach LEV
Port Meteorological Officer
Israel Meteorological Service
P.O. Box 25
Bet Dagan 5025001
Israel

Updated: 16/03/2017
Telephone: +972-3-9403117
Telefax: +972-3-9604065
Telex:
Email: levl@ims.gov.il

www.ims.gov.il

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

JAPAN

Port Meteorological Officers

Main Port: Hakata; Ports/area Serviced: Fukuoka

Toshihiro ISHIHARA
Senior Engineer
Fukuoka Regional Headquarters
Japan Meteorological Agency
1-2-36, Ohori, Chuo-ku,
Fukuoka 810-0052
Japan

Updated: 11/05/2018
Telephone: +81-92-725-3613
Telefax: +81-92-761-1726
Telex:
Email: pmo@climar.kishou.go.jp

Main Port: Ishikariwan Shinko; Ports/area Serviced: Sapporo

Yumitoshi MIURA
Senior Engineer
Sapporo Regional Headquarters
Japan Meteorological Agency
18-2, Kitanijo-nishi, Chuo-ku,
Sapporo 060-0002
Japan

Updated: 11/05/2018
Telephone: +81-11-611-6174
Telefax: +81-11-611-3206
Telex:
Email: pmo@climar.kishou.go.jp

Main Port: Kobe

Yoshifumi ONO
Port Meteorological Officer
Kobe Local Meteorological Office
1-4-3, Wakinohamakaigan-dori, Chuo-ku,
Kobe 651-0073
Japan

Updated: 11/05/2018
Telephone: +81-78-222-8918
Telefax: +81-78-222-8945
Telex:
Email: pmo@climar.kishou.go.jp

Main Port: Nagoya

Takahiro ISHIHARA
Port Meteorological Officer
Nagoya Local Meteorological Office
2-18, Hiyori-cho, Chikusa-ku,
Nagoya 464-0039
Japan

Updated: 11/05/2018
Telephone: +81-52-752-6364
Telefax: +81-52-762-1242
Telex:
Email: pmo@climar.kishou.go.jp

Main Port: Naha; Ports/area Serviced: Okinawa

Minoru MORITA
Senior Engineer
Okinawa Regional Headquarters
Japan Meteorological Agency
1-15-15, Higawa,
Naha 900-8517
Japan

Updated: 11/05/2018
Telephone: +81-98-833-4065
Telefax: +81-98-833-4292
Telex:
Email: pmo@climar.kishou.go.jp

Main Port: Osaka

Hiroyuki TAKANO
Senior Engineer
Osaka Regional Headquarters
Japan Meteorological Agency
4-1-76, Otemae, Chuo-ku,
Osaka 540-0008
Japan

Updated: 11/05/2018
Telephone: +81-6-6949-6160
Telefax: +81-6-6949-6160
Telex:
Email: pmo@climar.kishou.go.jp

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Main Port: Sendai-Shiogama; Ports/area Serviced: Sendai

Hideshi DAIMON
Senior Engineer
Sendai Regional Headquarters
Japan Meteorological Agency
1-3-15, Gorin, Miyagino-ku,
Sendai 983-0842
Japan

Updated: 11/05/2018
Telephone: +81-22-297-8107
Telefax: +81-22-291-8110
Telex:
Email: pmo@climar.kishou.go.jp

Main Port: Tokyo

Masaya KONISHI
Scientific Officer
Marine Division
Global Environment and Marine Dept.
Japan Meteorological Agency
1-3-4, Ote-machi, Chiyoda-ku,
Tokyo 100-8122
Japan

Updated: 11/05/2018
Telephone: +81-3-3212-8341 (Ext. 5144)
Telefax: +81-3-3211-3047
Telex:
Email: pmo@climar.kishou.go.jp

Main Port: Yokohama

Hideyuki NAKANE
Port Meteorological Officer
Yokohama Local Meteorological
Office
99, Yamate-cho, Naka-ku,
Yokohama 231-0862
Japan

Updated: 11/05/2018
Telephone: +81-45-621-1991
Telefax: +81-45-622-3520
Telex:
Email: pmo@climar.kishou.go.jp

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

JORDAN

Weather Routeing Services

The Met Office
Aqaba Port
Aqaba
JORDAN

Updated: 13/11/1999
Telephone: Aqaba 3608
Telefax: --
Telex: 21908 METAM-JO
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

KENYA

Port Meteorological Officers

Main Port: Mombasa

Mr. Joseph Odhiambo Amollo
Port Meteorologist
Kilindini Harbor,
Kenya Meteorological Services
Mombasa
KENYA

Updated: 16/03/2017
Telephone: +254 721 390 697
Telefax: --
Telex:
Email: Joseph_amollo@yahoo.co.uk

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

KUWAIT

Weather Routeing Services

Reyadh A. Al-Saneh
Meteorological Department
Civil Aviation
P.O. Box 17
Safat
KUWAIT

Updated: 13/11/1999
Telephone: --
Telefax: --
Telex: 23038 CIVAIR
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

LATVIA

Weather Routeing Services

Mr. Yuriy SHISHKIN
Head
Latvian Hydrometeorological Agency
Marine Forecasting Department
165, Maskavas Str.
RIGA LV - 1019
LATVIA

Updated: 13/11/1999
Telephone: +371 7 112038
Telefax: --
Telex: 161151 SHAR LV
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

MALAYSIA

Port Meteorological Officers

Main Port: Port Bintulu

Mohd Azlan MO'MIN
Port Meteorological Officer
Lapangan Terbang Bintulu,
97000 Bintulu, Sarawak,
Malaysia

Updated: 28/05/2018
Telephone: +6086318193
Telefax: +6086310213
Telex:
Email: mohdazlan@met.gov.my

Main Port: Port Klang

Panir Chelvan A/L G. KOTHANDAPANY
Port Meteorological Officer
Jalan Sultan, 46667 Petaling Jaya
Selangor,
Malaysia

Updated: 28/05/2018
Telephone: +60379678084
Telefax: +60379549326
Telex:
Email: chelvan@met.gov.my

Main Port: Port Kota Kinabalu

Mohamadsha Ebung
Port Meteorological Officer
Tingkat 7, Wisma Dang Bandang, 88995 Kota Kinabalu
Sabah,
Malaysia

Updated: 28/05/2018
Telephone: +6088413691
Telefax: +6088413696
Telex:
Email: mse@met.gov.my

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

MAURITIUS

Port Meteorological Officers

Mauritius

Mr. S. CAHOOLESSUR (Liaison Office, Mauritius)
Meteorologist
Mauritius Meteorological Services
Mauritius

Updated: 10/11/2011
Telephone: 230 686 1031,32
Telefax: 230 6861033
Telex:
Email: meteo@intnet.mu

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

MOROCCO

Port Meteorological Officers

Casablanca

Mr. Hassan AMANE
Meteorological Officer
Station Météorologique
JETEE MY.YOUSSEF
PORT DE CASABLANCA
Morocco

Updated: 10/11/2011
Telephone: +212 5 22 450277
Telefax: +212 5 22 450301
Telex:
Email: ha.amane@yahoo.fr

Direction de la Météorologie Nationale(service marine)

Mr Hassan BOUKSIM (Service marine)
Chief, Marine Meteorology division
Direction de la Météorologie Nationale
B.P. 8106
OASIS-CASABLANCA
Casablanca 20103
Morocco

Updated: 10/11/2011
Telephone: +212 522 65 49 20
Telefax: +212 522 9136 98
Telex:
Email: h.bouksim@gmail.com

Mohammedia

Mr. Jamal BAHRI
Meteorological Officer
Station Météorologique
PORT DE MOHAMMEDIA
B.P 11
Morocco

Updated: 10/11/2011
Telephone: +212 5 23 304128
Telefax: +212 5 23 304521
Telex:
Email: jamalemarin@live.fr

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

NETHERLANDS

Port Meteorological Officers

Main Port: All ports in the Netherlands /

Main Port: Antwerpen

Ports or area serviced: Gent / Zeebrugge

Mr. D. Napoles Soto
Port Meteorological Officer
P.O. Box 201
3730 AE de Bilt
The Netherlands

Updated: 11/05/2018
Telephone: All ports in the Netherlands: +31
621587152
Antwerpen: +31 30 2206678 /+31 6
55457546
Telefax:
Telex:
Email: Pmo.office@knmi.nl

Mr. René J. Rozeboom
Port Meteorological Officer
P.O. Box 201
3730 AE de Bilt
The Netherlands

Updated: 11/05/2018
Telephone: +31 30 2206678 /+31 6 55457546
Telefax: --
Telex:
Email: Pmo.office@knmi.nl

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

NEW ZEALAND

Port Meteorological Officers

Main Port: Wellington / CentrePort;

Ports or area serviced: All Ports in New Zealand if necessary and possible.

Mr. Ross Bannister
Network Operations Port Meteorological Officer
PO Box 722
Wellington 6140
New Zealand

Updated: 11/05/2018

Telephone: +64 4 4700 789

Telefax: +64 4 4735 231

Telex:

Email: Ross.Bannister@metservice.com

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

NORWAY

Port Meteorological Officers

Bergen

Mr Jan MOSTROM
Senior executive meteorological officer
Norwegian Meteorological Institute, Forecasting Division
of Western Norway
Bergen Lufthavn Flesland
Postboks 34 Bergen lufthavn
5869 Bergen
Bergen
Norway

Updated: 10/11/2011
Telephone: +47 55 99 82 04
Telefax: --
Telex:
Email: jan.mostrom@met.no

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

PAKISTAN

Port Meteorological Officers

Karachi

Mr. Akhlaq Jameel
Senior Meteorologist
Main Met Office
Room No. 3106
Jinnah International Airport
Karachi-75200
Pakistan

Updated: 14/01/2016
Telephone: +92 21 99071300, 99071302, 99071322
Telefax: +92 21 99248282
Telex:
Email: srmetmojiap@outlook.com
akhlaq@hotmail.com

Details of main port serviced by PMO: Karachi Port Trust, KPT Head Office Karachi (<http://kpt.gov.pk/>)
Details of other ports serviced: N/A (yet) may be Gwadar Port in future.

Weather Routeing Services

Meteorological Office
Jinnah International Airport
Room # 3106
KARACHI
PAKISTAN

Updated: 12/06/2006
Telephone: +92 21 9248281
+92 21 467 1322
+92 21 4671300
Telefax: +92 21 9248680
+92 21 9248282
Telex: N/A
Email: pmdmocar@khi.paknet.com.pk

(1) Meteorological Office to Karachi Coast Station to Ships/Vessels via broadcast.

(2) Meteorological Office to LES, Perth via SafetyNet.

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

PERU

Port Meteorological Officers

Main Port: Callao;

Ports/area serviced: Departamento de Oceanografía – División de Meteorología

Mr. Oscar MARTINEZ Alania
Hidrógrafo
Calle Roca N° 118,
Chucuito,
Callao
Perú

Updated: 13/03/2017
Telephone: 0051 1 2078160 ext 6464
Telefax: 0051 1 2078178
Telex:
Email: omartinez@dhn.mil.pe

Mr. Fernando ALLASI Quispe
Analista Meteorológico
Calle Roca N° 118
Chucuito
Callao
Perú

Updated: 13/03/2017
Telephone: 0051 1 2078160 ext 6464
Telefax: 0051 1 2078178
Telex:
Email: pronostico@dhn.mil.pe

Mr. Giacomo MOROTE Somontes
Jefe de la División de Meteorología
Calle Roca N° 118
Chucuito
Callao
Perú

Updated: 24/04/2018
Telephone: 0051 1 2078160 Ext 6439
Telefax: 0051 1 2078178
Telex:
Email: gmorote@dhn.mil.pe

Main Port: Chimbote;

Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica

Observador Hidro-oceanográfico
Encargado de la Oficina Hidrográfica
Av. La Caleta S/N
Perú

Updated: 13/03/2017
Telephone: Landline: 0051 043321955 ext 6874
Mobile: 0051 1 988458508
Telefax:
Telex:
Email: ochimbote@dhn.mil.pe

Main Port: Mollendo;

Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica

Observador Hidro-oceanográfico
Encargado de la Oficina Hidrográfica
Pasaje Zela N° 100
Perú

Updated: 13/03/2017
Telephone: Landline: 0051 054532963 ext 6886
Mobile: 0051 1 998091594
Telefax:
Telex:
Email: omollendo@dhn.mil.pe

Main Port: Paita;

Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica

Observador Hidro-oceanográfico
Encargado de la Oficina Hidrográfica
Plaza de Armas N° 100
Paita
Perú

Updated: 13/03/2017
Telephone: Landline: 0051 073213313 ext 6868
Mobile: 0051 1 996191835
Telefax: 0051 073299990
Telex:
Email: opaita@dhn.mil.pe

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Main Port: Pisco;**Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica**

Observador Hidro-oceanográfico
Encargado de la Oficina Hidrográfica
Km. 18.5 Carretera Parcas - Frente Condominio Nuevo
Paracas
Perú

Updated: 13/03/2017
Telephone: Landline: 0051 056532246 ext 6882
Mobile: 0051 1 996190355
Telefax:
Telex:
Email: opisco@dhn.mil.pe

Main Port: Salaverry;**Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica**

Observador Hidro-oceanográfico
Encargado de la Oficina Hidrográfica
Av La Marina S/N
Perú

Updated: 13/03/2017
Telephone: Landline: 0051 044 437346 ext 6872
Mobile: 0051 1 996191829
Telefax:
Telex:
Email: osalaverry@dhn.mil.pe

Main Port: San Juan;**Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica**

Observador Hidro-oceanográfico
Encargado de la Oficina Hidrográfica
Av. Los Incas S/N
Perú

Updated: 13/03/2017
Telephone: Landline: 0051 056525703 ext 6884
Mobile: 0051 1 995902715
Telefax:
Telex:
Email: osanjuan@dhn.mil.pe

Main Port: Talara;**Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica**

Observador Hidro-oceanográfico
Encargado de la Oficina Hidrográfica
Av Almirante Grau S/N
Perú

Updated: 13/03/2017
Telephone: Landline: 0051 073382175 ext 6866
Mobile: 0051 1 996190388
Telefax:
Telex:
Email: otalara@dhn.mil.pe

Weather Routeing Services

Dirección de Hidrografía y Navegación de la Marina
Av. Gamarra No. 500
Chucuito
CALLAO
PERU

Updated: 13/11/1999
Telephone: +51 1 298925
+51 1 299578
Telefax: --
Telex: 26024 PE HIDRONAV
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

PHILIPPINES

Port Meteorological Officers

Cagayan de Oro City

Mr Leo RODRIGUEZ PMO PAGASA Complex Station CAGAYAN DE ORO CITY 9000 Misamis Occidental Philippines	Updated: 10/11/2011 Telephone: +63-8822 722 760 Telefax: -- Telex: Email:
--	--

Davao City

Mr Edwin FLORES PMO PAGASA Complex Station Bangoy Airport DAVAO CITY 8000 Philippines	Updated: 10/11/2011 Telephone: +63-82 234 08 90 Telefax: -- Telex: Email:
--	--

Dumaguete City

Mr Edsin CULI PMO PAGASA Complex Station Dumaguete City Airport DUMAGUETE CITY, Negros Oriental 6200 Philippines	Updated: 10/11/2011 Telephone: +63-35 225 28 04 Telefax: -- Telex: Email:
---	--

Legaspi City

Mr Othello ESTAREJA PMO PAGASA Complex Station LEGASPI CITY 4500 Philippines	Updated: 10/11/2011 Telephone: +63-5221 245 5241 Telefax: -- Telex: Email:
--	---

Mactan City

Mr Roberto ENTRADA PMO PAGASA Complex Station Mactan Airport Mactan City, CEBU 6016 Philippines	Updated: 10/11/2011 Telephone: +63-32 495 48 44 Telefax: -- Telex: Email:
--	--

Manila South Harbor

Mr Benjamin TADO PMO PAGASA Port Meteorological Office PPATC Building, Gate 4 South Harbour, MANILA 1018 Philippines	Updated: 10/11/2011 Telephone: +63-22 527 03 16 Telefax: -- Telex: Email:
---	--

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

POLAND

Port Meteorological Officers

Gdynia & Gdansk

Mr Józef KOWALEWSKI
Port Meteorological Officer
Institute of Meteorology and Water Management
Institute of Meteorology and Water Management
ul. Waszyngtona 42
PL-81-342 Gdynia
Poland

Updated: 10/11/2011
Telephone: +48 58 6288151
Telefax: +48 58 6288163
Telex:
Email: meteo.gdynia@imgw.pl

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

REPUBLIC OF KOREA

Port Meteorological Officers

Port/Office: Busan Regional Office of Meteorology

Mr. Sung Sik CHOI
Deputy Director, Climate and Meteorological Service
Division
Chunglyeoldae-ro 237, Dongrae-gu
Busan 607-804
Republic of Korea

Updated: 02/03/2016
Telephone: +82-51-718-0421
Telefax: +82-51-558-9506
Telex:
Email: sschoi@kma.go.kr

Weather Routeing Services

Mr. Jee-Yong Lee
Weather Analysis Officer
Korea Meteorological Service
1, Songwol-dong
Chongro-ku
SEOUL
REPUBLIC OF KOREA

Updated: 13/11/1999
Telephone: +82 32 7390011
Telefax: --
Telex: 35-2126
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

ROMANIA

Port Meteorological Officers

Constantza

Mrs. Mariana FRATILA
Head of Forecast Division Dobrogea
Dobrogea Regional Meteorological Centre
National Meteorological Administration of Romania
Blvd. Mamaia, nr. 300
900851, Constanta
Romania

Updated: 04/04/2013
Telephone: +40 727 328 125
Telefax: --
Telex:
Email: mariana.fratila@gmail.com

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

RUSSIAN FEDERATION

Port Meteorological Officers

Arkhangelsk

Mr. Antonov DENIS
Meteorologist
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: esimo@arh.ru
sevmgmc@arh.ru

Mr. Valentina VARLACHEVA
Meteorologist
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: esimo@arh.ru
sevmgmc@arh.ru

Kholmsk (Juzhnosakhalinsk)

Ms. Tamara ZINOVA
PMO
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: morot@sakhugms.ru

Murmansk

Mr. Nadezhda HVOROVA
PMO
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: inspector@kolgimet.ru

Ms. Marina SHCHURKOVA
PMO
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: inspector@kolgimet.ru

Ms Irina PAKHOMOVA
PMO Group Chief
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: inspector@kolgimet.ru

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Ms. Mary CHEMOGANSKAYA
PMO
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: inspector@kolgimet.ru

Petropavlovsk-Kamchatsky

Ms. Elena KRASNOSHTANOVA
PMO
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: ogm@kammeteo.ru

Saint-Petersburg

Ms. Elena Parikova
PMO
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: vos@meteo.nw.ru

Vladivostok

Ms. Ludmila DEGA
PMO
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: shipocean@primpogoda.ru

Ms. Irina Mudrakova
PMO
Russian Federation

Updated: 02/04/2013
Telephone: --
Telefax: --
Telex: --
Email: shipocean@primpogoda.ru

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

RUSSIAN FEDERATION (EUROPE)

Weather Routeing Services

Prof. K.P. Vasiliev
Chief
Hydrometeorological Research Centre of the Former USSR
Marine Hydrological Forecasting Division
9-13 Bolshevistskaya
MOSCOW 123376
RUSSIAN FEDERATION

Updated: 13/11/1999
Telephone: +7 495 2551774
Telefax: --
Telex: 411117
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

SAMOA

Weather Routeing Services

Samoa Ports Authority
Private Bag
MATAUTU
SAMOA

Updated: 23/08/2006

Telephone: +685 20855
+685 20856

Telefax: +685 20857

Telex:

Email: meteorology@meteorology.gov.ws

To GTS using: FZZM50 NSAP bulletin header.

**CONTACT INFORMATION FOR
PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES**

SAUDI ARABIA

Port Meteorological Officers

Jeddah

Mr Badee Khayyat
Presidency of Meteorology and Environment
P.O. Box 1358
JEDDAH 21431
Saudi Arabia

Updated: 23/04/2013
Telephone: +96626536276
Telefax: --
Telex:
Email: badee_k@hotmail.com
bkhayyat@pme.gov.sa

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

SINGAPORE

Port Meteorological Officers

Singapore

Ong Chin HONG
Port Meteorological Officer
PO Box 8
Singapore Changi Airport Post Office
Singapore 918141

Updated: 16/03/2017
Telephone: +65 6488 1843
Telefax: +65 6289 9381
Telex:
Email: Ong_Chin_Hong@nea.gov.sg

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

SOUTH AFRICA

Port Meteorological Officers

Main Port: Port of Cape Town, South Africa

Ports/area serviced: Port of Cape Town, Simon's Town Naval Base, Port of Durban, Port Elizabeth

Mardené de Villiers
PMO
South African Weather Service
Cape Town Weather Office
P.O.Box 21
Cape Town International Airport
7525
South Africa

Updated: 11/05/2018
Telephone: +27 21 935 5700
Telefax: +27 21 934 3296
Telex:
Email: Mardene.devilliers@weathersa.co.za

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

SRI LANKA

Port Meteorological Officers

Colombo

Mr Ajith WEERAWARDENA
Meteorologist in Charge
Department of Meteorology Sri Lanka
83, Baudhaloka
Mawatha
Colombo 07
Sri Lanka

Updated: 10/11/2011
Telephone: +94-1 1268 2661
Telefax: --
Telex:
Email: ajithweer@yahoo.com

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

SURINAME

Weather Routeing Services

J.R. Wadilie
Chief
Meteorological Service Suriname
Zanderij International Airport
Aeronautical Division
District Para
SURINAME

Updated: 13/11/1999
Telephone: +595 025154
+595 025206
Telefax: --
Telex:
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

SWEDEN

Port Meteorological Officers

Main Port is located in Gothenburg
Office located in Norrköping

Mr Johan SVALMARK
SMHI
SE-601 76 Norrköping
Sweden

Updated: 28/05/2018
Telephone: + 46 11 4958488
Telefax: + 46 11 4958001
Telex:
Email: Johan.Svalmark@smhi.se

Weather Routeing Services

SMHI Ice Service
NORRKÖPING S-601 76
SWEDEN

Updated: 23/08/2006
Telephone: +46 - 114958533
Telefax: +46 60 114958053
Telex:
Email: ice@prod.smhi.se

SMHI Weatherrouting
NORRKÖPING S-601 76
SWEDEN

Updated: 23/08/2006
Telephone: +46 60 114958400
Telefax: +46 60 114958403
Telex:
Email: weatherrouting@prod.smhi.se

**CONTACT INFORMATION FOR
PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES**

SWITZERLAND

Weather Routeing Services

Dr. G. Simmen
Institut Suisse de Météorologie
Krähbühlstrasse 58
ZURICH 8044
SWITZERLAND

Updated: 13/11/1999

Telephone: --

Telefax: --

Telex:

Email:

Prof. Höhn
Deutscher Wetterdienst Seewetteramt
Postfach 180
HAMBURG 4 D - 2000
GERMANY

Updated: 13/11/1999

Telephone: --

Telefax: --

Telex:

Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

TANZANIA, UNITED REPUBLIC OF

Port Meteorological Officers

Dar es Salaam

Mr. Allen B. MPETA (PMO, Dar es Salaam)
Senior Met. Officer
Tanzania Meteorological Agency, Zanzibar Office Division
P.O. BOX 3056
DAR ES SALAAM
Tanzania

Updated: 10/11/2011
Telephone: +255 22 2134471
Telefax: +255 22 2460735
+255 22 24607600

Telex:
Email: allen_mpeta@yahoo.co.uk

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

THAILAND

Port Meteorological Officers

Port/Office: Bangkok port

Mr. Wittaya Rugkid
Marine Meteorological Officer
4353 Sukhumvit road, Bangna,
Bangkok 10260
Thailand

Updated: 28/05/2018
Telephone: 66 2 3994561
Telefax: 66 2 3669375
Telex:
Email: Wittamet17@hotmail.com

Port/Office: Laem Chabang port

Mr. Rojsak Phoophanphin
Marine Meteorological Officer
4353 Sukhumvit road, Bangna,
Bangkok 10260
Thailand

Updated: 28/05/2018
Telephone: 66 2 3994561
Telefax: 66 2 3669375
Telex:
Email: rossak0110@hotmail.com

Weather Routeing Services

Director
Meteorological Department
Weather Forecast Division
612 Sukumvit Road
Bangkok 10110
THAILAND

Updated: 13/11/1999
Telephone: --
Telefax: --
Telex: 72004 DEPMETE TH
Email:

**CONTACT INFORMATION FOR
PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES**

TURKEY

Weather Routeing Services

Ercan ERUS
Director
Deniz Meteoroloji Bürosu
Airport Meteorological Office
Karaköy Liman Başkanlığı
Yesilköy
ISTANBUL
TURKEY

Updated: 13/11/1999
Telephone: +90 212 149126
+90 212 738721
Telefax: --
Telex: 22602
Email:

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

UGANDA

Port Meteorological Officers

Meteorologist

Mr Kituusa MOHAMMED
Meteorologist
Department of Meteorology, Ministry of Water and
Environment
P.O.BOX 7025
Kampala
Uganda

Updated: 10/11/2011
Telephone: --
Telefax: --
Telex:
Email: kituusa_rashid@yahoo.co.uk

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Port Meteorological Officers

Main Port: NORTHERN IRELAND

Mr. Jim McGreevy
Port Meteorological Officer
Met Office
FSE Service Centre
Cargo Complex
Belfast International Airport
Belfast
County Antrim
Northern Ireland
BT29 4AB
United Kingdom

Updated: 11/05/2018
Telephone: +44 2894 417075
Telefax:
Telex:
Email: pmobelfast@metoffice.gov.uk

Ports or area serviced: Responsible for automated VOS operating to Northern Ireland ports including Belfast

Main Port: SCOTLAND

Ms. Kirsten Deans
Port Meteorological Officer
Met Office
Saughton House
Broomhouse Drive
Edinburgh
Mid Lothian
EH11 3XQ
United Kingdom

Updated: 11/05/2018
Telephone: +44 (0)131 528 7318
Telefax: +44 (0) 1392 885681
Telex:
Email: pmoscotland@metoffice.gov.uk

Ports or area Serviced: Responsible for all ports in Scotland (including Glasgow, Edinburgh, Dundee, Aberdeen and Scottish islands)

Main Port: UK - NORTH ENGLAND

Mr Matthew Strahan
Port Meteorological Officer
Met Office
Unit 3, Holland Business Park,
Spa Lane,
Lathom, L40 6LN
United Kingdom

Updated: 11/05/2018
Telephone: +44 1695 726467
Telefax: --
Telex:
Email: pmo.liverpool@metoffice.gov.uk

Ports of area Serviced: Responsible for the east and west coasts of northern England and ports on north Welsh coast (including the ports of Hull, Immingham, Liverpool, Birkenhead, Barrow, Tees, Tyne etc)

Main Port: UK - SOUTH EAST ENGLAND

Mr. Phil Johnson
Port Meteorological Officer
Met Office
Pease Pottage
Crawley
West Sussex
RH11 9AP
United Kingdom

Updated: 11/05/2018
Telephone: +44 1293 538547
Telefax: --
Telex:
Email: pmolondon@metoffice.gov.uk

Ports or area Serviced: Responsible for all ports on the south English coast, including ports of Felixstowe, Great. Yarmouth, Lowestoft, Tilbury, Dover and Thames Medway.

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Main Port: UK - SOUTH WEST ENGLAND

Ports or area serviced: See notes

Mr Steven BOND
Port Meteorological Officer
Met Office
Room 342/11
National Oceanography Centre
University of Southampton
Waterfront Campus
European Way
Southampton SO14 3ZH
United Kingdom

Updated: 11/05/2018
Telephone: +44 2380 638339
Telefax: --
Telex:
Email: pmosouthampton@metoffice.gov.uk

Ports or area serviced: Responsible for all ports on the south and south west English coast (including Southampton, Portsmouth, Falmouth, Avonmouth, Portbury and Plymouth) and also providing PMO cover for South Wales (Cardiff, Swansea, Newport, Port Talbot and Milford Haven)

Main Port: WALES

Mr. Stuart Herridge
Port Meteorological Officer
Met Office Cardiff
Temple Court
Cathedral Road
Cardiff
CF11 9HA
United Kingdom

Updated: 11/05/2018
Telephone: +44 2920 786564
Telefax:
Telex:
Email: pmocardiff@metoffice.gov.uk

Ports or area serviced: Responsible for all ports on south Wales coast (including Milford Haven and Port Talbot)

Weather Routeing Services

MetWorks Limited
Acorn House,
43 Longshot Lane
BRACKNELL RG12 1RL
BERKSHIRE
UNITED KINGDOM

Updated: 08/08/2002
Telephone: +44 1344 411116
Telefax: +44 1344 317654
Telex: None
Email: ops@metworksltd.com

Services provided:

Full weather routeing: Initial advisory service. Regular recommendations and advice on optimum routes. Frequent forecasts along the vessel's track, extending to five days ahead.

Fast Track Service: Extended forecasts and recommendations covering the complete voyage for high-speed scheduled vessels (e.g. container ships) transiting the North Atlantic and North Pacific Oceans.

Area Forecasts: Specialist vessels such as cable ships, survey vessels, tugs and tows can be supplied with specific forecasts for a designated geographical area and period of time. These cover a summary of the weather in the area of operation, Visibility, Wind strength and direction, Significant wave height, Swell direction and period, Tropical Cyclone information, Sea Ice limits and other factors that might affect a passage.

Services to the Leisure Industry: Forecasting and routeing services can be supplied to luxury charter and private yachts of any type.

Voyage Assessment and Consultancy. Useful in a weather-related dispute when an authoritative second opinion from MetWorks can help to make a case for the client.

General: MetWorks services are based on advanced software working with data supplied under contract by the UK Met Office. Advice is transmitted promptly by satellite to the Master of the vessel.

Every member of the MetWorks Operational and Management team is a Master Mariner combining at least 20 years of seagoing experience with weather-routeing expertise and close familiarity with the characteristics of many types of vessel.

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

UNITED STATES OF AMERICA

Port Meteorological Officers

Anchorage, AK

Mr. Larry Hubble, Focal Point
National Weather Service Alaska Region
222 West 7th Avenue #23
Anchorage, AK 99513-7575

Updated: 28/03/2017
Telephone: +2 907-271-5135
Telefax: +1 907-271-3711
Telex:
Email: pmoanc@noaa.gov
vospmo@noaa.gov

Baltimore, MD

Mr. Lori Evans
PMO
National Weather Service, NOAA
PO Box 3667
Frederick, MD 21701

Updated: 28/03/2017
Telephone: +1 443-642-0760
Cell: 410-633-4713
Telefax: --
Telex:
Email: pmobal@noaa.gov

Charleston, SC

Mr. Tim Kenefick, PMO
NOAA Coastal Services Center
2234 South Hobson Avenue
Charleston, SC 29405-2413

Updated: 28/03/2017
Telephone: +1 843-709-0102
Telefax: +1 843-740-1224
Telex:
Email: pmochs@noaa.gov
vospmo@noaa.gov

Duluth, MN / Great Lakes

Mr. Ron Williams, PMO
National Weather Service, NOAA
5027 Miller trunk Hwy
Duluth, MN 55811-1442

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Fort Lauderdale, FL

Mr. David Dellinger, PMO
National Weather Service/NOAA
2550 Eisenhower Blvd., Suite 312
Fort Lauderdale FL 33316

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CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

Honolulu, HI

Mr. Derek LeeLoy, PMO
Ocean Services Program Coordinator
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Telephone: +1 808-725-6016
Alt number: David Meek/808-725-6015
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Houston, TX

Mr. Chris Fakes, PMO
National Weather Service, NOAA
1353 FM646 Suite 202
Dickinson, TX 77539

Updated: 28/03/2017
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Jacksonville, FL

Mr. Robert Niemeyer, PMO
National Weather Service, NOAA
13701 Fang Road
Jacksonville, FL 32218-7933

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Kodiak, AK

Focal Point - VACANT

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Long Beach, CA

Mr. Tim Harris, PMO
National Weather Service, NOAA
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Long Beach, CA 90802-4213

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Telex:
Email: pmolax@noaa.gov
vospmo@noaa.gov

Reported on board 3/2016

CONTACT INFORMATION FOR PORT METEOROLOGICAL OFFICES AND SHIP WEATHER ROUTEING SERVICES

New Orleans, LA Gulf Coast

Mr. Rusty Albara,
Port Meteorological Officer
NWSFO New Orleans/Baton Rouge
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Slidell, LA 70460

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Telefax: +1 985-649-2907
Telex:
Email: pmomsy@noaa.gov
vospmo@noaa.gov

New York City, NY

Mr James LUCIANI, PMO
National Weather Service, NOAA
PO Box 366
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Telephone: +1 908-217-3477
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Norfolk, VA

Mr. Peter Gibino, PMO
National Weather Service, NOAA
104 Hemlock Court
Yorktown, VA 23693-4544

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Telephone: +1 757-717-0897
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Telex:
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San Francisco Bay area

VACANT, PMO
National Weather Service, NOAA
1301 Clay Street, Suite 1190N
Oakland, CA 94612-5217

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Telephone: --
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Seattle, WA

Mr. Matt Thompson, PMO
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Telephone: +1 206-526-6100
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Valdez, AK

Vacant - Focal Point
National Weather Service, NOAA
Box 427
Valdez, AK 99686-0427

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Telex:
Email: pmovdz@noaa.gov
vospmo@noaa.gov

FORM FOR NEW OR UPDATED MATERIAL

In order to maintain and improve the accuracy of the information in this publication please inform the WMO Secretariat of any amendments relating to Volume D.

DSC – NAVTEX – HF NBDP – RADIO-FACSIMILE

Use the following colour scheme to indicate whether text is to be deleted/added/replaced

- Replace.....
- Delete
- Add

Region: _____ Country: _____ METAREA: _____ Date: _____

Station Name: _____

Area Covered: _____

Please provide map of area coverage

- Type of Station: Marine Rescue Co-ordination Centre.....
- Maritime Radio Station.....

- Mode of Transmission: NAVTEX.....
- DSC (VHF/MF/HF).....
- HF NBDP.....
- RADIO-FACSIMILE

Web link: _____

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FOCAL POINTS

PLEASE SELECT:

- National Contact Points for WMO GMDSS Marine Broadcast System.....
- Ship Weather Routeing Services.....
- Port Meteorological Offices.....

Use the following colour scheme to indicate whether text is to be deleted/added/replaced

- Replace.....
- Delete.....
- Add.....

METAREA: _____
Country: _____
Date: _____
Focal Point: _____

Address

Telephone: _____
Telefax: _____
Telex: _____
Email: _____

