

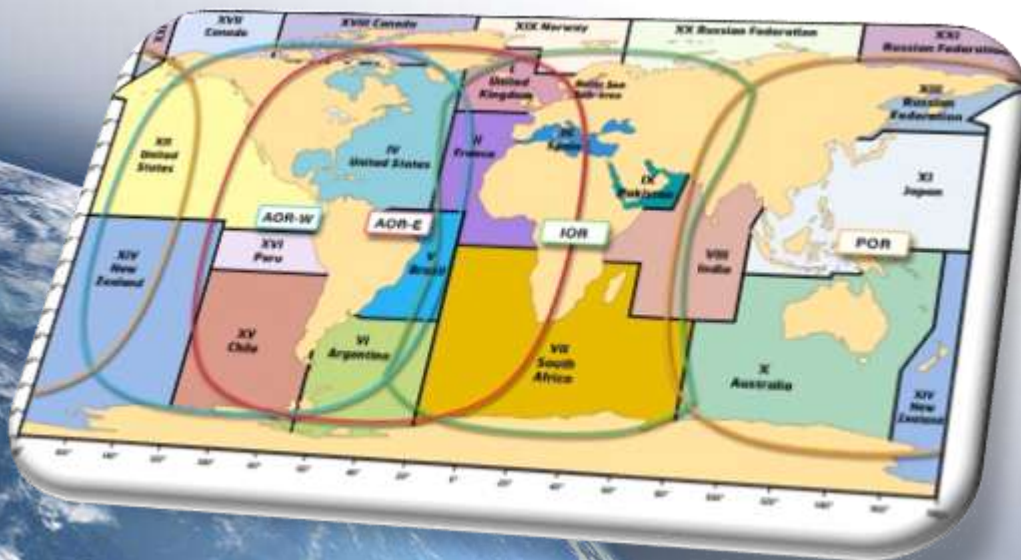


**NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY**  
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**IMO/IHO World-Wide Navigational Warning Service**

# **NAVAREA IV / XII**

28 November 2018





# **IMO/IHO World-Wide Navigational Warning Service (WWNWS)**

- **International coordinated global service for promulgation of hazards to navigation by satellite affecting the safety of life at sea**
- **Twenty One Navigation Areas (NAVAREAs), each with a Coordinator (Eighteen) responsible for the harmonization of navigational information in their area.**

**IMO Resolution A.706(17)  
MSC.1/Circ.1288/Rev.1  
24 June 2013**



# WWNWS-SC



- **Established 1973**
- **Monitors and guides the WWNWS**
- **Provides guidance to IHO Member States to further evolution of WWNWS**
- **International cooperation with IMO, WMO, IMSO, IALA**
  - **Chairman represents IHO for relevant IMO Committees.**
- **Capacity Building Assistance**
  - **Rep Regional Hydrographic Commission Conferences**
  - **MSI Training**
- **Chairman – Peter Doherty**
- **Commission Membership – 40 plus IHO Member States plus IMO, WMO, IMSO and Inmarsat**



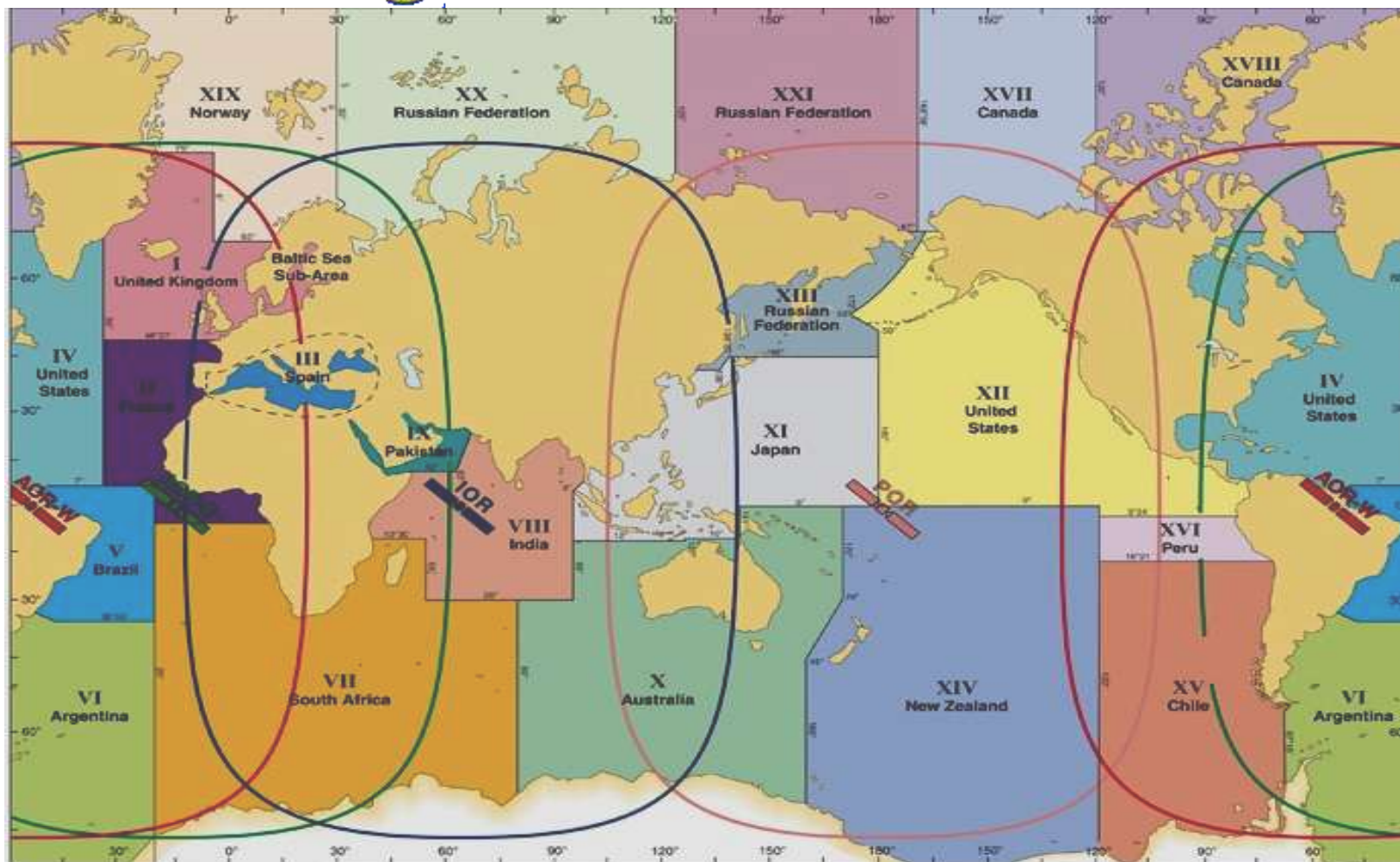


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# World-Wide Navigational Warning Service



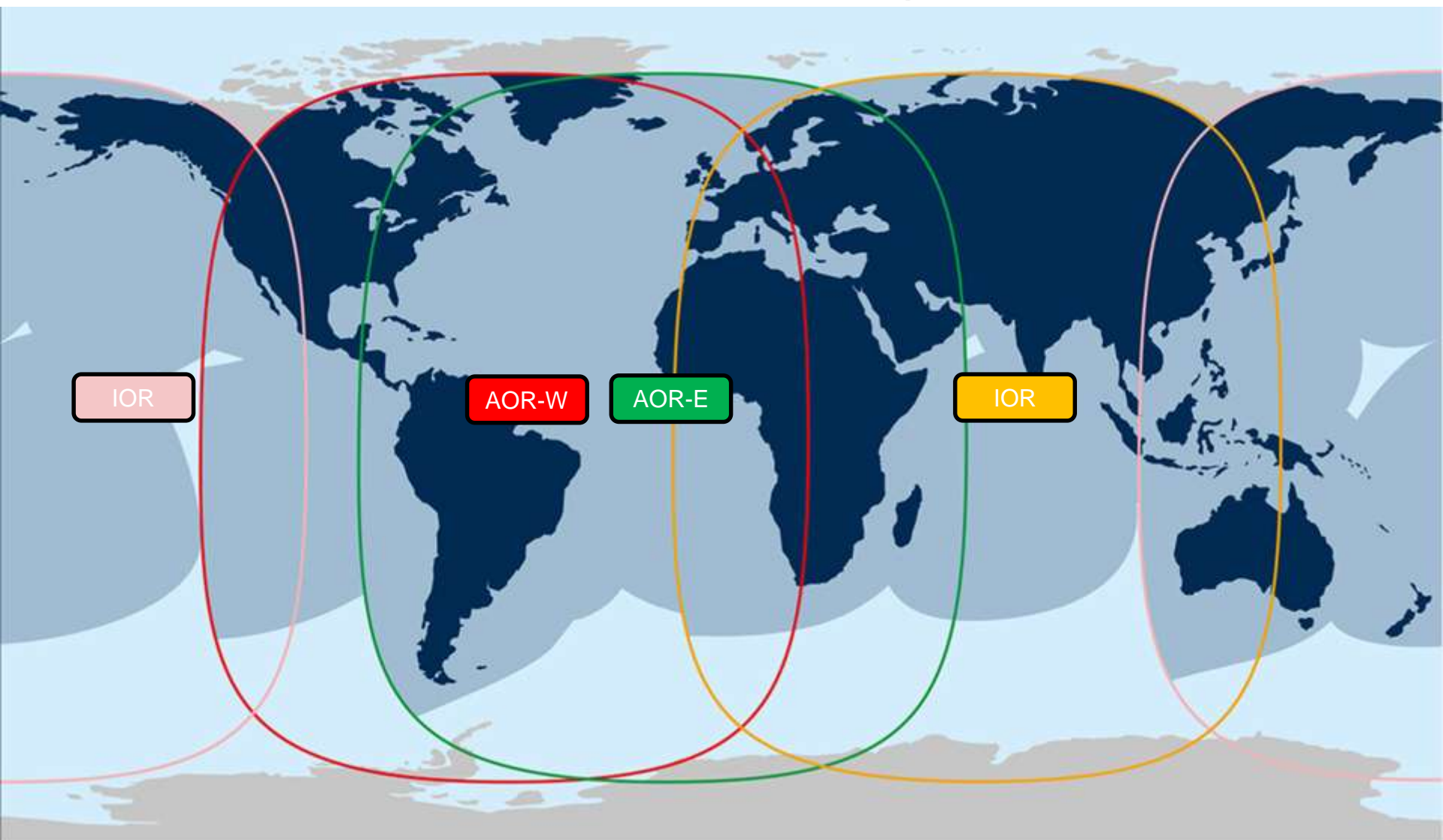
## NAVAREAs





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# Inmarsat-C Coverage Shift

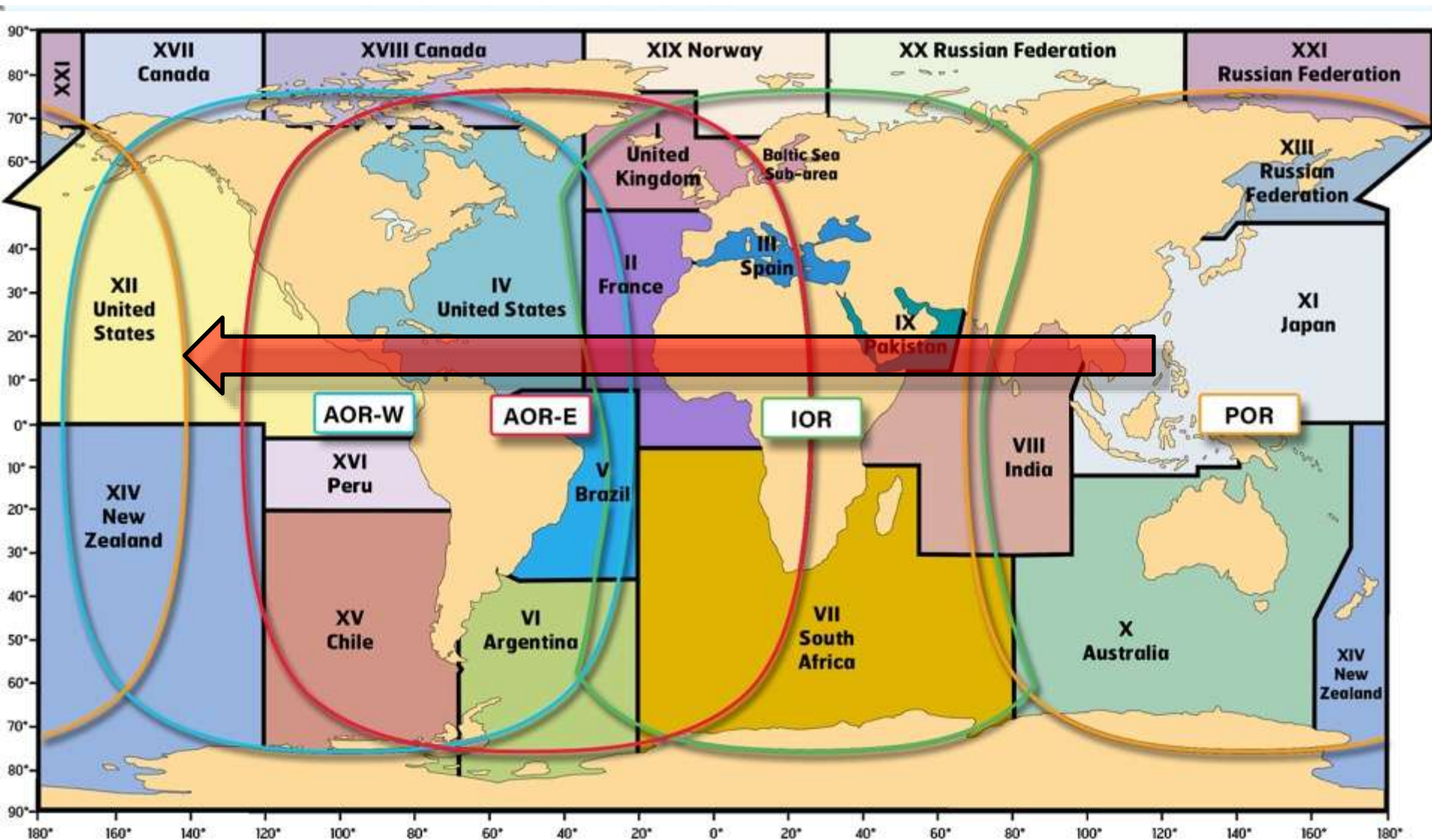






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# Inmarsat-C Coverage Shift





## Definitions

- **NAVAREA:** A geographical sea area established for the purpose of coordinating the broadcast of navigational warnings
- **NAVAREA COORDINATOR:** The authority charged with coordinating, collating and issuing navigational warnings for a designated NAVAREA
- **NATIONAL COORDINATOR:** The national authority charged with collating and issuing coastal warnings within a







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# Navigational Warnings

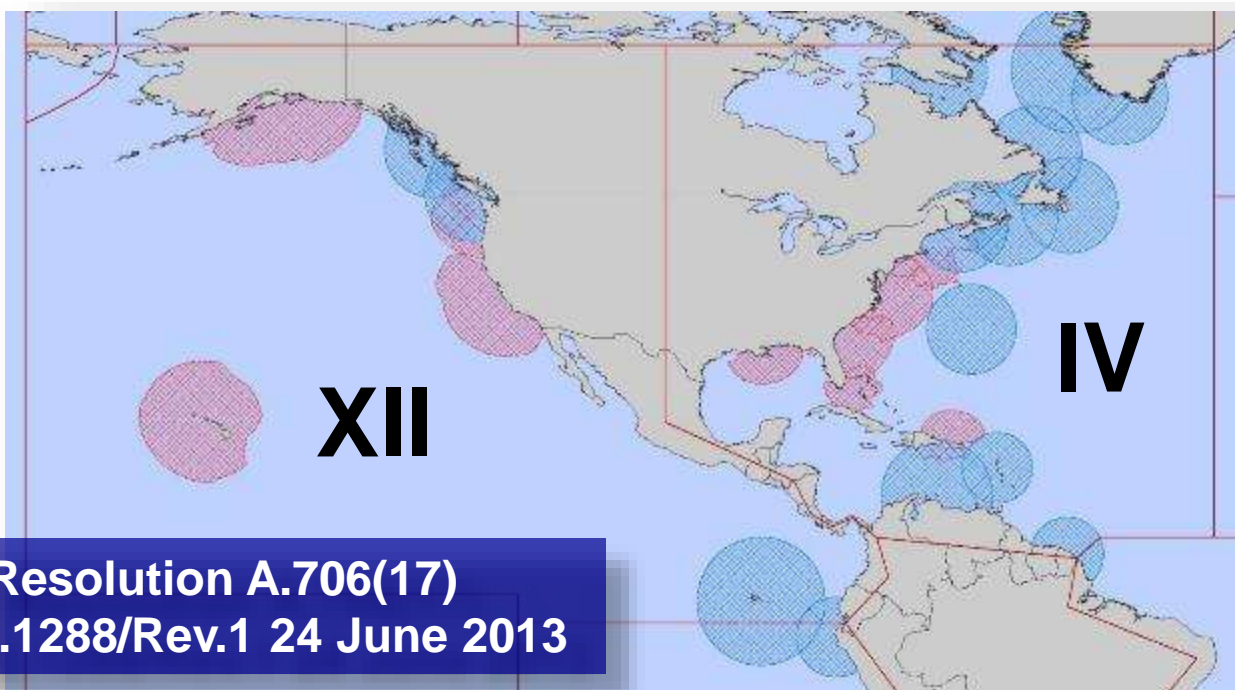






# **NAVAREA IV/XII Coordinator**

**Endeavour to be informed of all events that could significantly affect the safety of navigation within the NAVAREA**



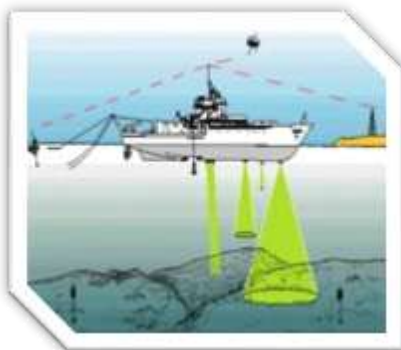
**IMO Resolution A.706(17)  
MSC.1/Circ.1288/Rev.1 24 June 2013**



# NAVAREA IV/XII Coordinator (cont.)

**Assess all information immediately upon receipt in the light of expert knowledge for relevance to navigation in the NAVAREA;**

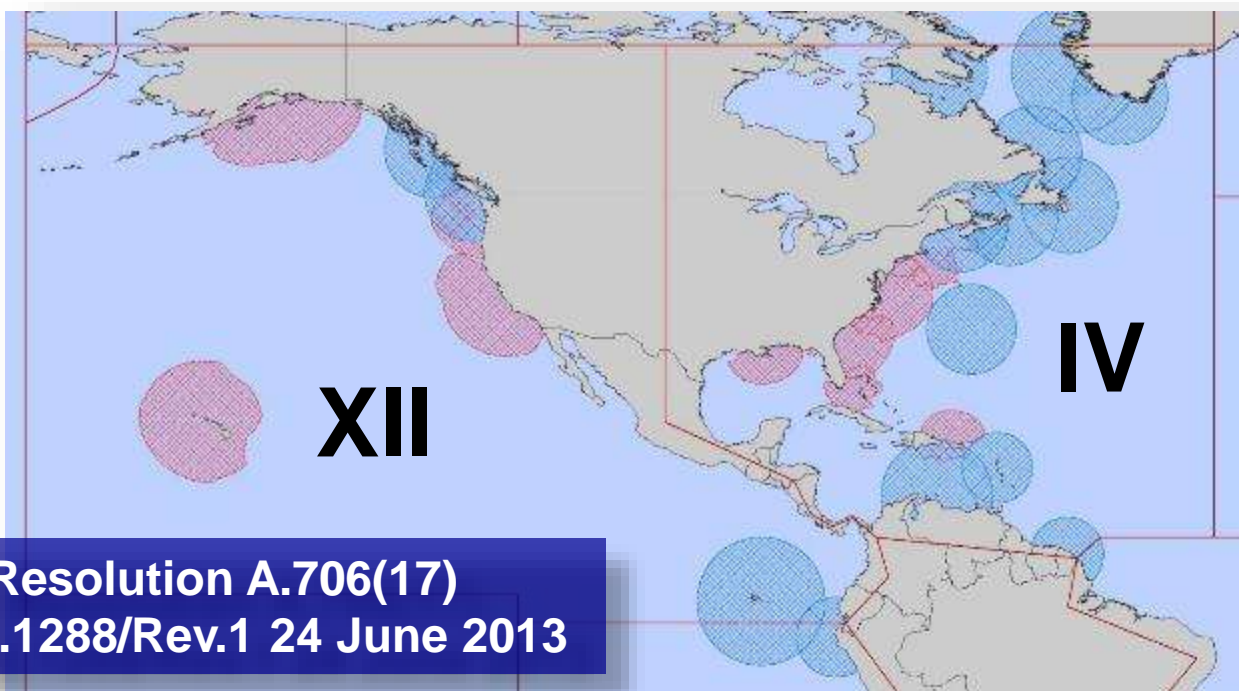
**Select information for broadcast**





# National Coordinator

**Endeavour to be informed of all events that could significantly affect the safety of navigation within your national waters**



**IMO Resolution A.706(17)  
MSC.1/Circ.1288/Rev.1 24 June 2013**





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# National Coordinator

**Forward coastal warnings and relevant associated information for wider promulgation directly to NAVAREA Coordinator**



**navsafety@nga.mil**

**IMO Resolution A.706(17)  
MSC.1/Circ.1288/Rev.1 24 June 2013**



# National Coordinators in the MACHC





# IHO Capacity Building

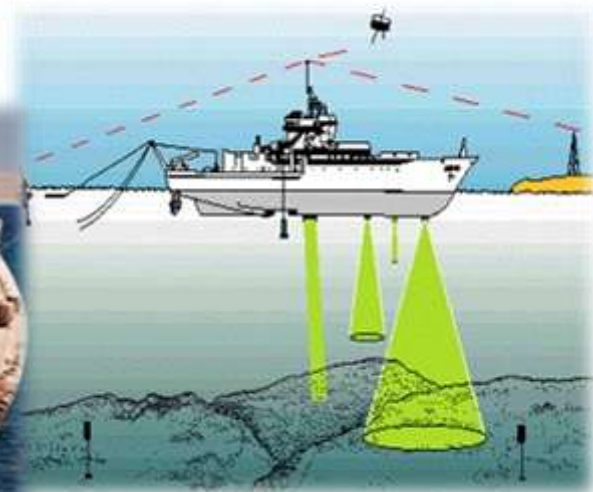
- The first phase of capacity building is the collection and circulation of nautical information
  - Allows for real time integration of your national maritime safety information to be part of the World-Wide Navigational Warning Service (WWNWS)
  - Understand your roles and responsibilities
  - Establish links with NAVAREA Coordinator





## Maritime Safety Information Training

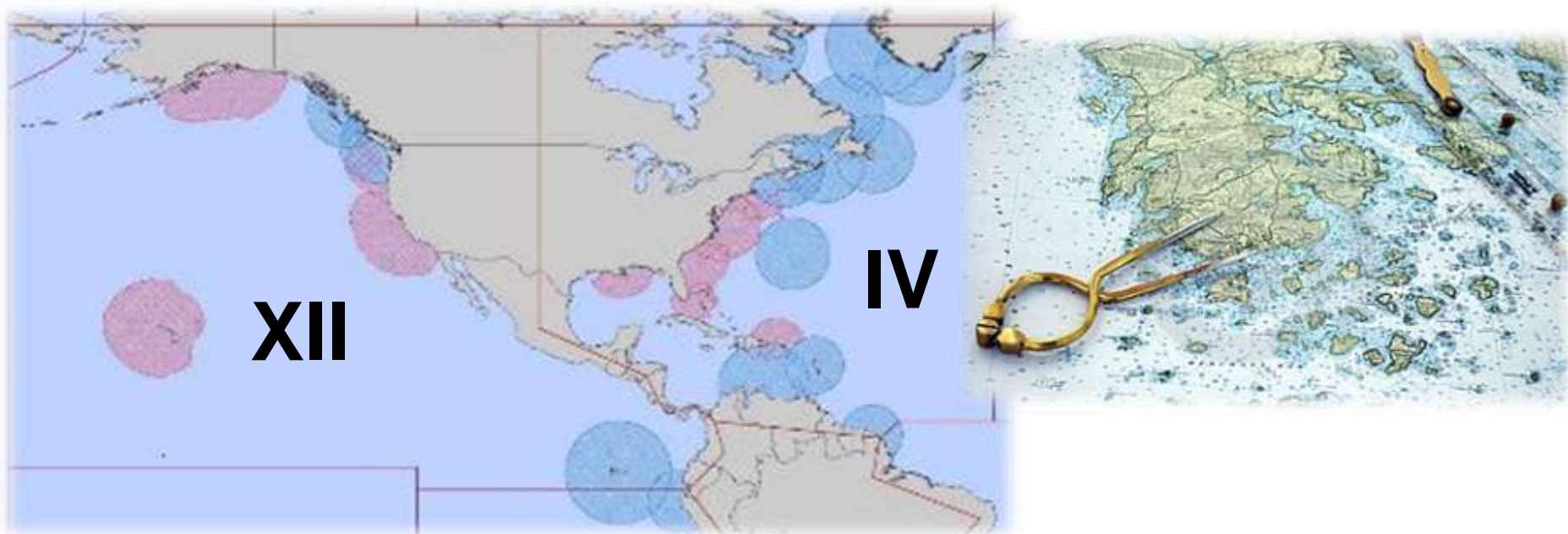
- 3 day comprehensive training course held with region
  - Led by WWNWS-SC
  - Sponsored by IHO CBC
- Endeavour to be informed of all events that could significantly affect the safety of navigation within your coastal region.





## Maritime Safety Information Capacity Building Course Outcomes

- Assess all information in the light of expert knowledge for relevance to navigation in the coastal region.





## Maritime Safety Information **Capacity Building Course Outcomes**

- Draft navigational warnings in accordance with the
- Joint IMO/IHO/WMO Manual on Maritime Safety Information
- Pass NAVAREA warnings for further promulgation to the NAVAREA Co-ordinator







# IHO MSI Training Courses (22)

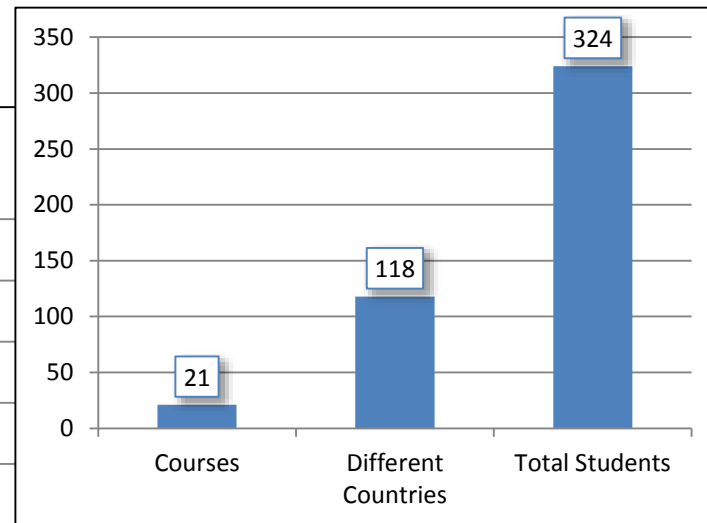
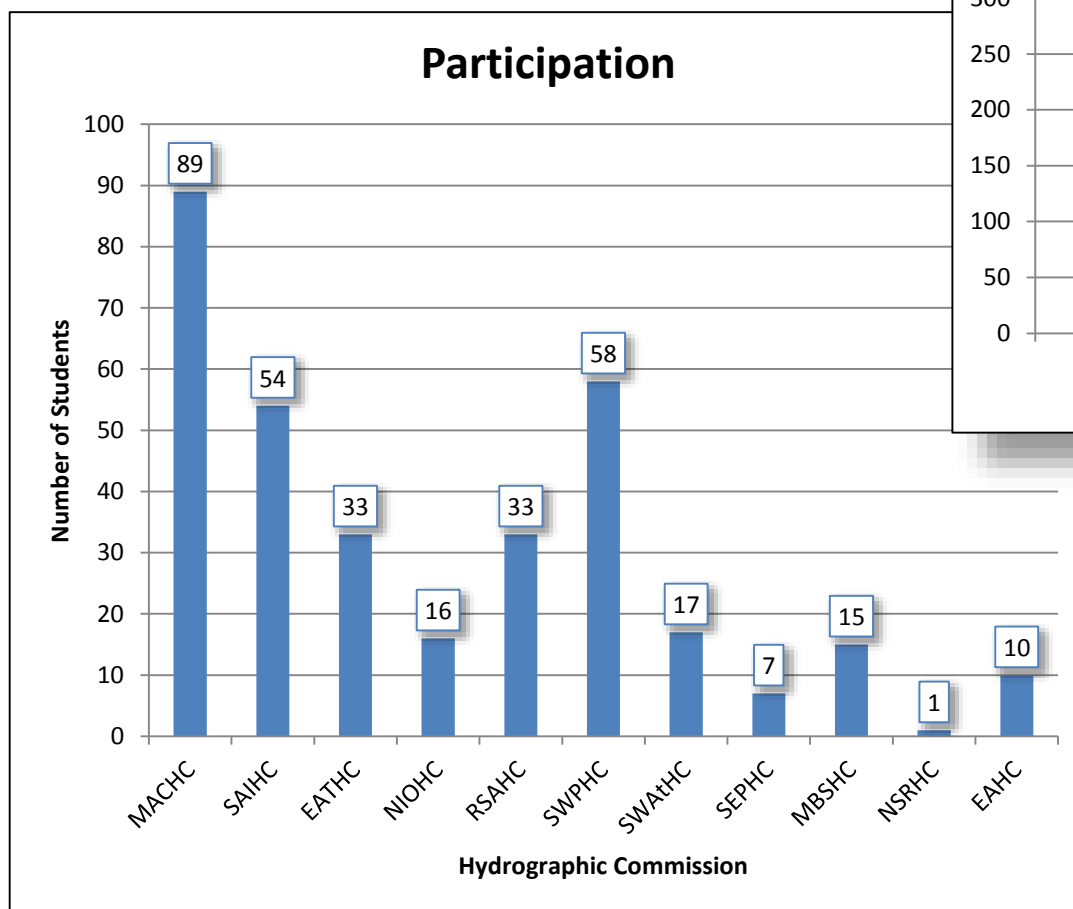
- 2007 Jamaica (MACHC)
- 2007 Mozambique (SAIHC)
- 2008 Spain (MBSHC)
- 2009 Ghana (EAthC)
- 2009 Oman (NIOHC / RSAHC)
- 2010 Namibia (SAIHC)
- 2010 Australia (SWPHC)
- 2011 Brazil (SWAtHC/SEPHC/MACHC)
- 2013 Trinidad (MACHC)
- 2013 South Africa (SAIHC)
- 2014 Oman (NIOHC / RSAHC)
- 2014 New Zealand (SWPHC)
- 2014 Ivory Coast (EAthC)
- 2015 Japan (EAHC)
- 2015 Turkey (MBSHC)
- 2016 Saint Lucia (MACHC)
- 2016 New Zealand (SWPHC)
- 2017 Barbados (MACHC)
- 2017 South Africa (SAIHC)
- 2018 Turkey (MBSHC)
- 2018 New Zealand (SWPHC)
- 2018 Brazil (SWAtHC, SEPHC & MACHC)



2018 – Niteroi, Brazil



# MSI Training Course Data





# MSI Training Course - MACHC

- 89 students trained from 33 countries

<b>Anguilla</b>
<b>Antigua and Barbuda</b>
<b>Barbados</b>
<b>Belize</b>
<b>Bermuda</b>
<b>British Virgin Islands</b>
<b>Cayman Islands</b>
<b>Colombia</b>
<b>Costa Rica</b>
<b>Cuba</b>
<b>Curacao</b>
<b>Dominica</b>
<b>Dominican Republic</b>
<b>Ecuador</b>
<b>El Salvador</b>
<b>French Guiana</b>

<b>Grenada</b>
<b>Guatemala</b>
<b>Guyana</b>
<b>Haiti</b>
<b>Honduras</b>
<b>Jamaica</b>
<b>Mexico</b>
<b>Montserrat</b>
<b>Nicaragua</b>
<b>Panama</b>
<b>Saint Kitts</b>
<b>Saint Lucia</b>
<b>Saint Vincent and the Grenadines</b>
<b>Suriname</b>
<b>Trinidad &amp; Tobago</b>
<b>Turks and Caicos</b>
<b>Venezuela</b>





## National Coordinators in NAVAREA IV and XII

- Send MSI to NGA and NAVAREA IV/XII will disseminate a navigational warning for your waters....
- **AT NO COST TO YOU !!**

**navsafety@nga.mil**

- **Mariners will be able download your warning as a text file or as a Google Earth KMZ from NGA's Maritime Safety Information website!**
- **<http://msi.nga.mil/NGAPortal/MSI.portal>**
  - **Select the Broadcast Warnings link**



# Anguilla

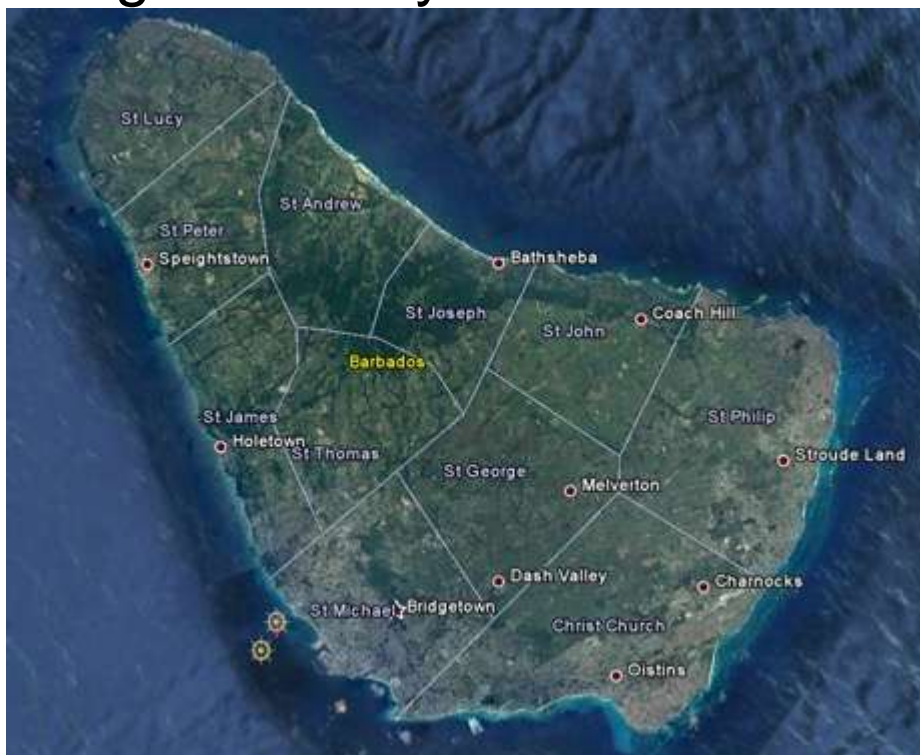
- Sent 1 MSI report to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 1 NAVAREA warning
- 1 warning currently in force





# Barbados

- Sent 2 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 2 NAVAREA warnings
- No warnings currently in force

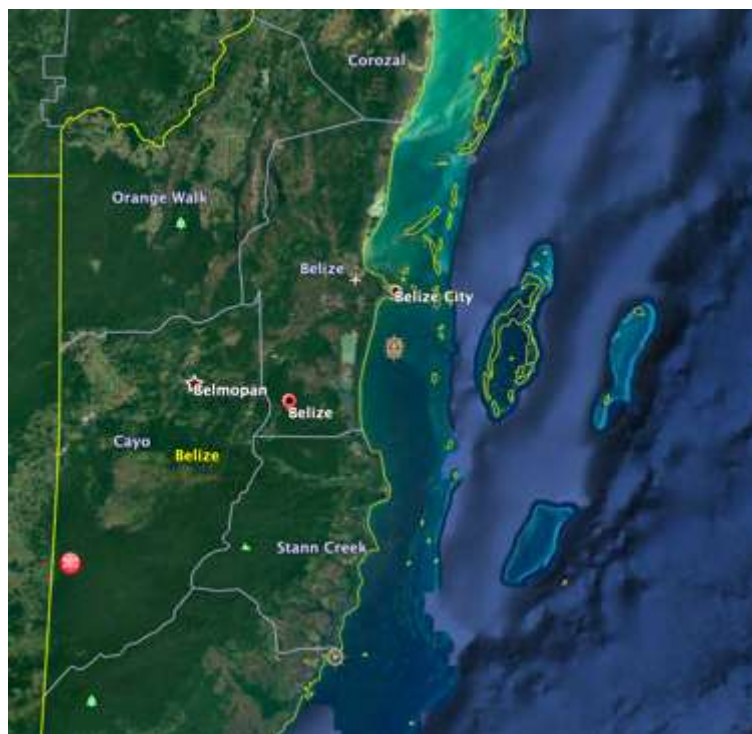






# Belize

- Sent 2 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 0 NAVAREA warnings
- No warnings currently in force





# Colombia

- Sent 256 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 47 NAVAREA warnings
- 4 warnings currently in force
- NAVTEX
  - Santa Marta
    - 11°03'.33N 074°13'.10W
    - Range: 300nm
    - B1: K
  - Buenaventura
    - 03°54'.18N 077°03'.77W
    - Range: 300nm
    - B1: C





# Costa Rica

- Sent 1 MSI report to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 1 NAVAREA warning
- No warnings currently in force







# Cuba

- Sent 4 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 4 NAVAREA warnings
- 1 warning currently in force





# Curaçao

- Sent 1 MSI report to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 1 NAVAREA warning
- No warnings currently in force





# Dominica

- Sent 2 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 0 NAVAREA warnings
- No warnings currently in force







# Dominican Republic

- Sent 9 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 5 NAVAREA warning
- 3 warnings currently in force





# Ecuador

- Sent 4 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 0 NAVAREA warnings
- No warnings currently in force





# French Guiana

- Sent 29 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 27 NAVAREA warnings
- 3 warnings currently in force







# Guatemala

- Sent 2 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 1 NAVAREA warning
- No warnings currently in force





# Guyana

- Sent 23 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 7 NAVAREA warnings
- 3 warnings currently in force





# Haiti

- Sent 10 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 5 NAVAREA warnings
- 1 warning currently in force







# Honduras

- Sent 1 MSI report to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 1 NAVAREA warning
- No warnings currently in force







# Jamaica

- Sent 5 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 1 NAVAREA warning
- No warnings currently in force





# Martinique

- Sent 31 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 19 NAVAREA warnings
- 1 warning currently in force





# Mexico

- Sent 188 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 99 NAVAREA warnings
- 15 warnings currently in force

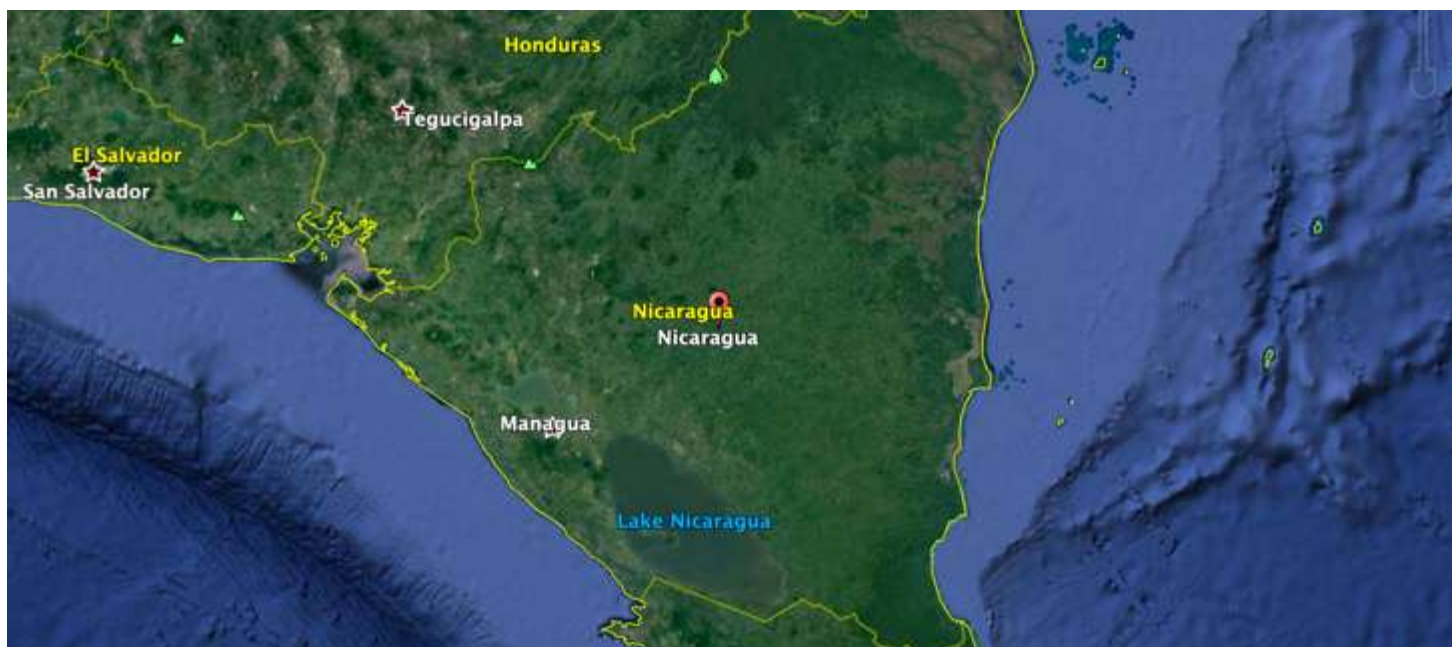






# Nicaragua

- Sent 1 MSI report to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 1 NAVAREA warning
- No warnings currently in force







# Panama

- Sent 8 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 7 NAVAREA warnings
- 4 warnings currently in force





# Saint Kitts and Nevis

- Sent 5 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 3 NAVAREA warnings
- No warnings currently in force





# Saint Vincent and the Grenadines

- Sent 6 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 1 NAVAREA warning
- 1 warning currently in force





# Suriname

- Sent 29 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 23 NAVAREA warnings
- 1 warning currently in force







# Trinidad and Tobago

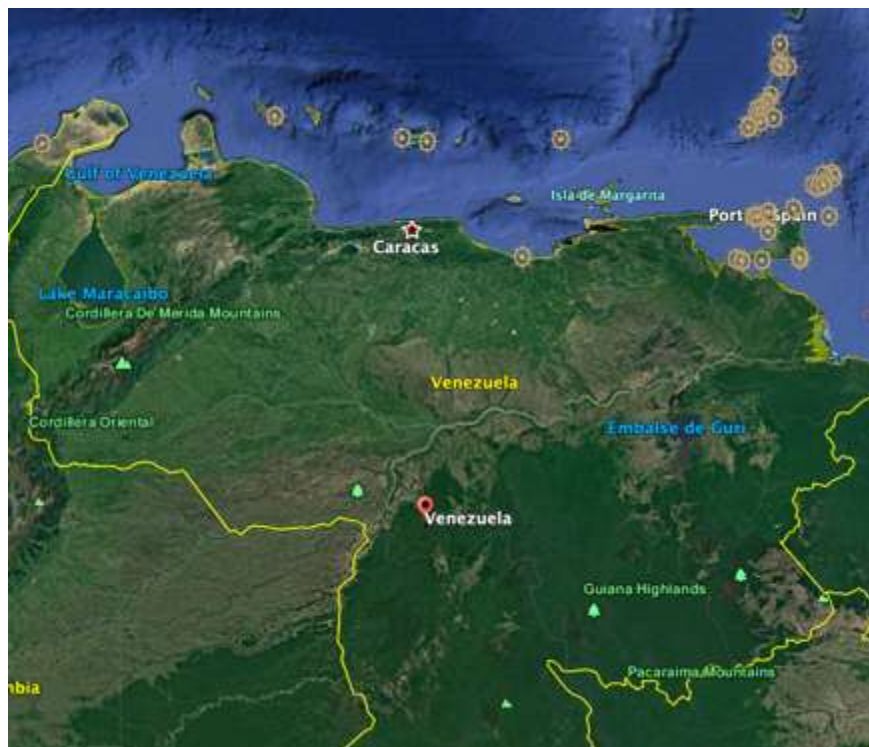
- Sent 67 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 30 NAVAREA warnings
- 6 warnings currently in force





# Venezuela

- Sent 49 MSI reports to [navsafety@nga.mil](mailto:navsafety@nga.mil)
- Promulgated 22 NAVAREA warnings
- 4 warnings currently in force





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# **NAVAREA IV/XII**

## **Thank you for your support!!**

