



World-Wide Navigational Warning Service Sub-Committee

Report to IRCC16

Santa Cruz Island - Galapagos, Ecuador
10 – 12 June 2024

By Christopher Janus

WWNWS Chair



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Agenda

International
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Organization

- WWNWS15 meeting summary
- IHO WWNWS Strategic Performance Indicator (C-55)
- Iridium SafetyCast Implementation
- Capacity building
- S-124 update
- New document review schedule
- Actions requested



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15th meeting of the WWNWS-SC

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- Held from 4-8 September 2023 as a hybrid meeting at the IHO Secretariat in Monaco
- 63 Participants
- BDMSS – Regional system with partial coverage of NAVAREA VIII, X, XI, and XIII
- NAVDAT – Navigation Data
- Space Activities Working Group report
- Task Team on Volcanic Activity report
- S-124 Progress and Challenges
- Iridium SafetyCast Implementation
- 22nd meeting of the WWNWS Document Review Working Group



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IHO Strategic Plan – SPI for MSI

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- Target:
 - 3.1 Collaborate with other bodies who deliver capacity building and training to improve effectiveness of capacity building activities and programmes
- Measure:
 - 3.1.1 Percentage of Coastal States that are capable to provide maritime safety information (MSI) **[navigational warnings]** according to the joint IMO/IHO/WMO manual on MSI **(2026 - 90%)**
 - *NAVAREA will confirm successful communications (via email/phone) twice per year*

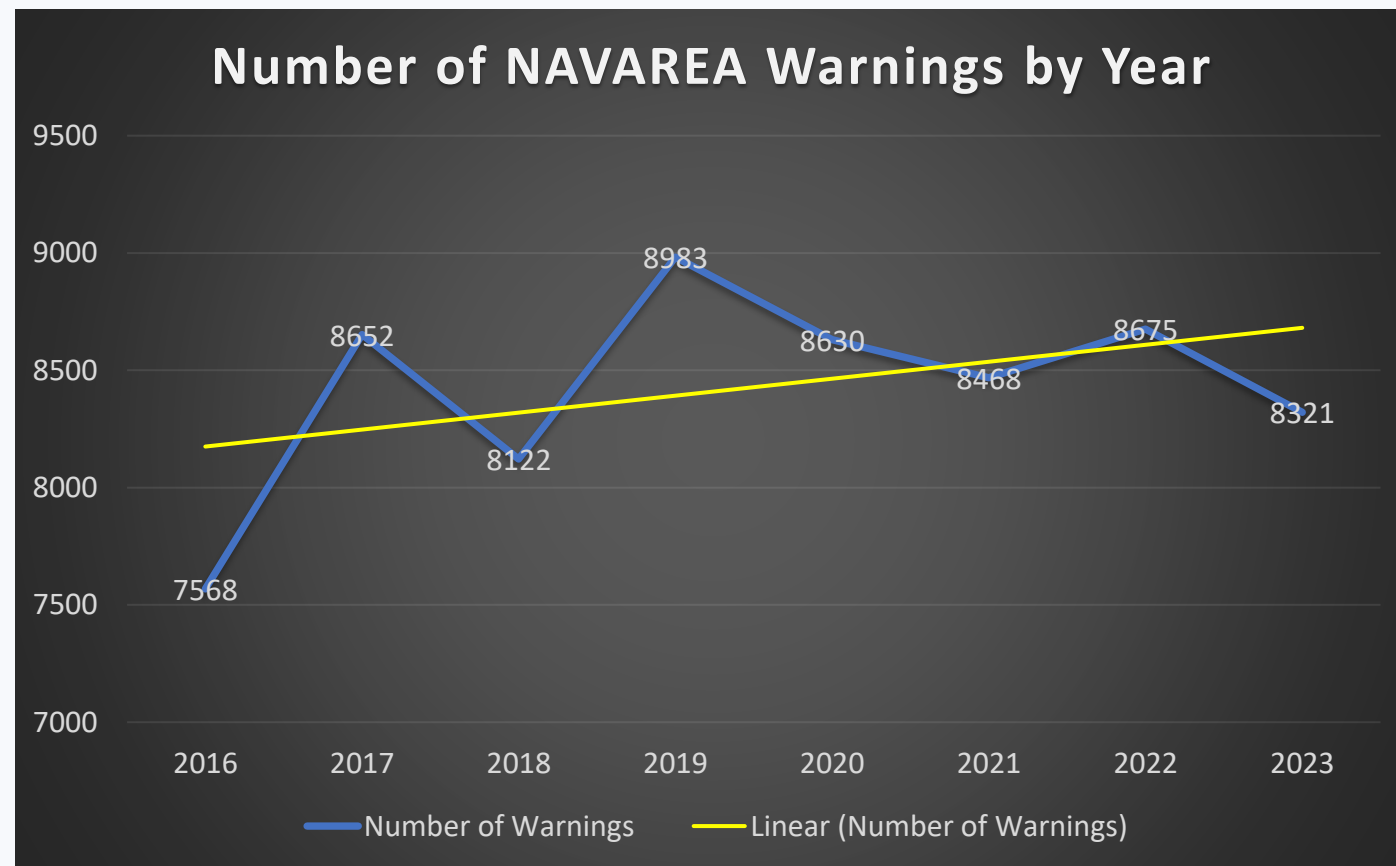
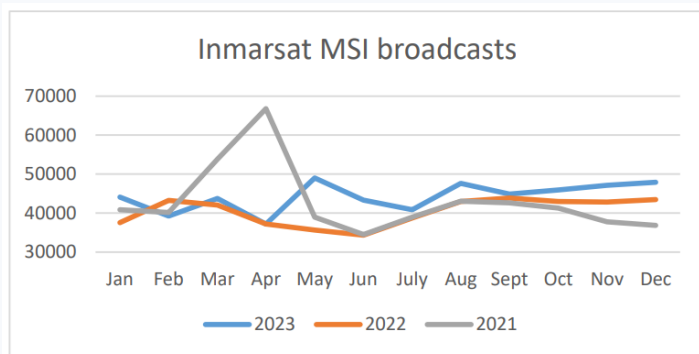


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SPI - Navigation Warnings by year

International Hydrographic Organization

Month	Number of MSI broadcasts		
	2023	2022	2021
January	44142	37570	40856
February	39268	43250	40153
March	43772	42051	53833
April	37191	37237	66796
May	49024	35683	38974
June	43319	34351	34506
July	40859	38748	38992
August	47633	43015	43066
September	44885	43876	42603
October	45933	42951	41273
November	47160	42809	37776
December	47892	43473	36829
TOTAL	531078	485014	515657

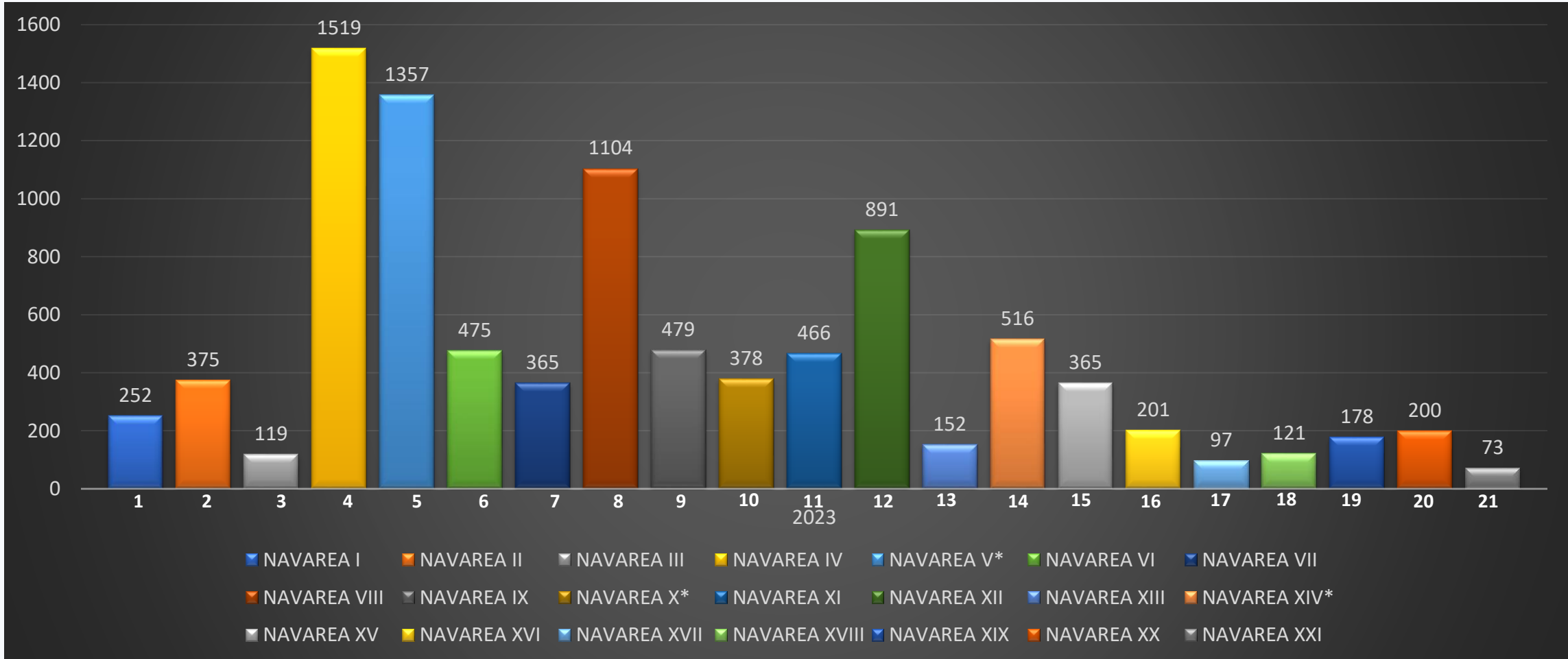




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Navigational warnings issued in 2023

International Hydrographic Organization



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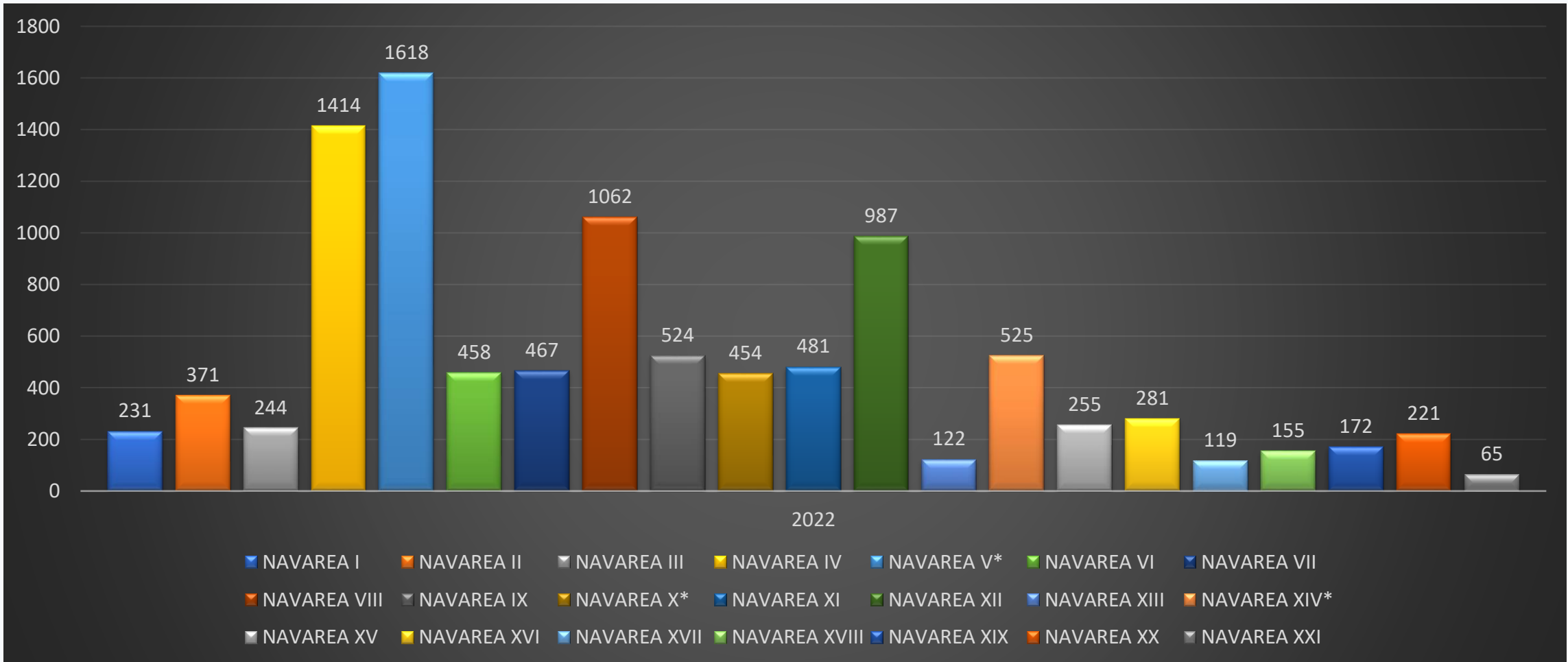
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Navigational warnings issued in 2022

International Hydrographic Organization



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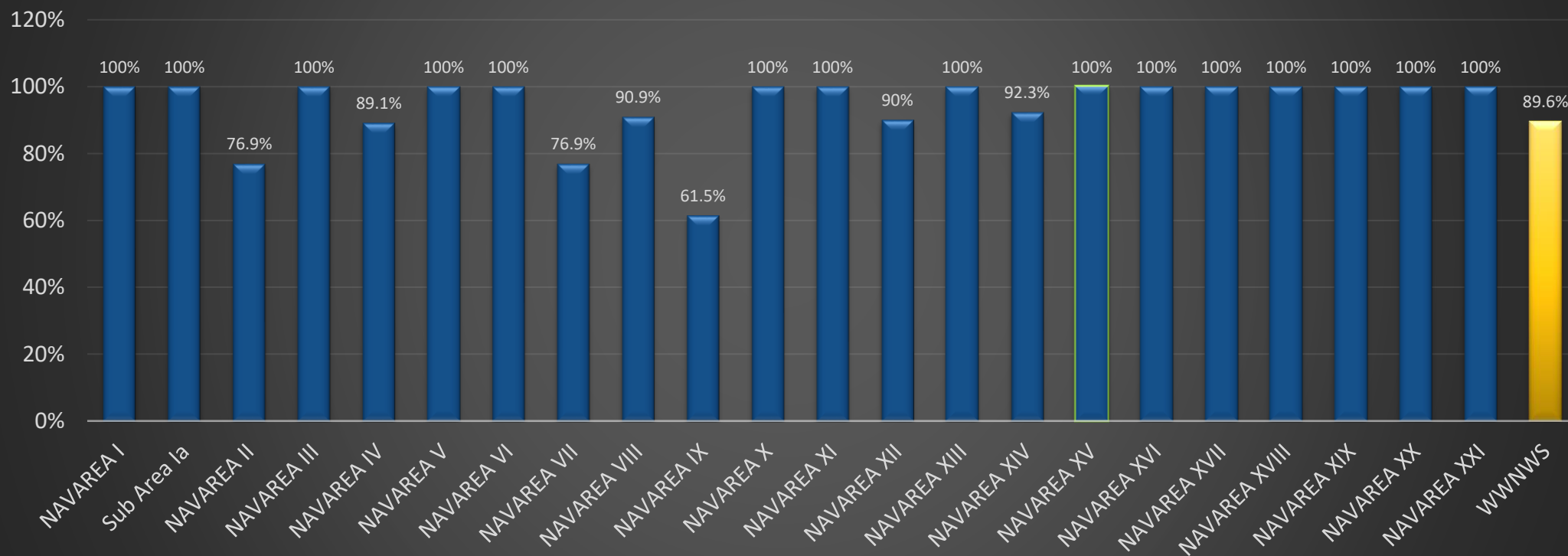
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SPI - MSI Support for 2023

(Derived from WWNWS15 NAVAREA Self Assessments)

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Coastal States capacity to provide MSI



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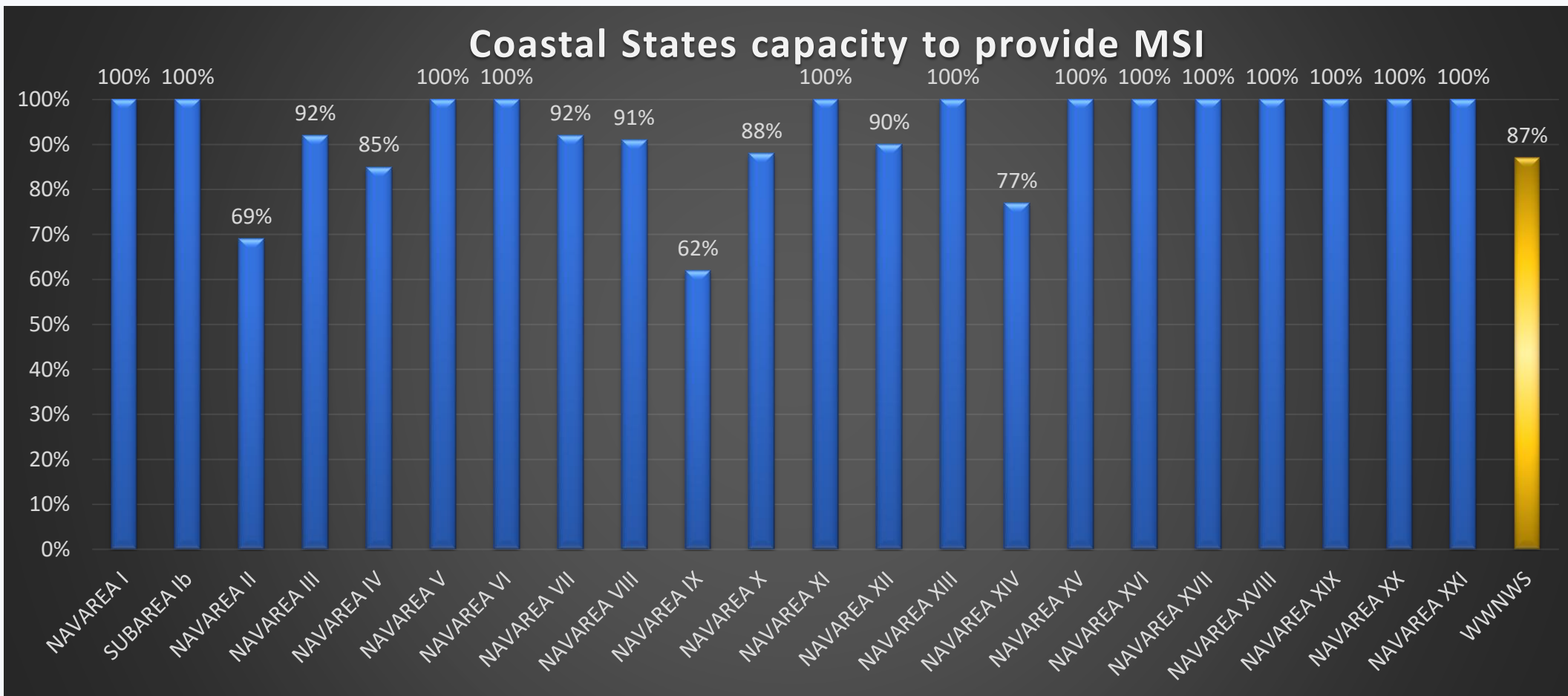


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SPI - MSI Support for 2022

(Derived from WNWWS14 NAVAREA Self Assessments)

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SPI - Coastal States by NAVAREA

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NAVAREA	Coastal States with MSI Capacity	Total Coastal States
NAVAREA I (United Kingdom)	11	11
SUBAREA Ib (Sweden)	9	9
NAVAREA II (France)	20	26
NAVAREA III (Spain)	24	24
NAVAREA IV (United States)	41	46
NAVAREA V (Brazil)	1	1
NAVAREA VI (Argentina)	4	4
NAVAREA VII (South Africa)	10	13
NAVAREA VIII (India)	10	11
NAVAREA IX (Pakistan)	8	13
NAVAREA X (Australia)	4	4

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SPI - Coastal States by NAVAREA

International Hydrographic Organization

NAVAREA	Coastal States with MSI Capacity	Total Coastal States
NAVAREA XI (Japan)	21	21
NAVAREA XII (United States)	9	10
NAVAREA XIII (Russian Federation)	1	1
NAVAREA XIV (New Zealand)	12	12
NAVAREA XV (Chile)	1	1
NAVAREA XVI (Peru)	1	1
NAVAREA XVII (Canada)	1	1
NAVAREA XVIII (Canada)	1	1
NAVAREA XIX (Norway)	1	1
NAVAREA XX (Russian Federation)	1	1
NAVAREA XXI (Russian Federation)	1	1
WWNWS	190	212

SPI = 89.2%

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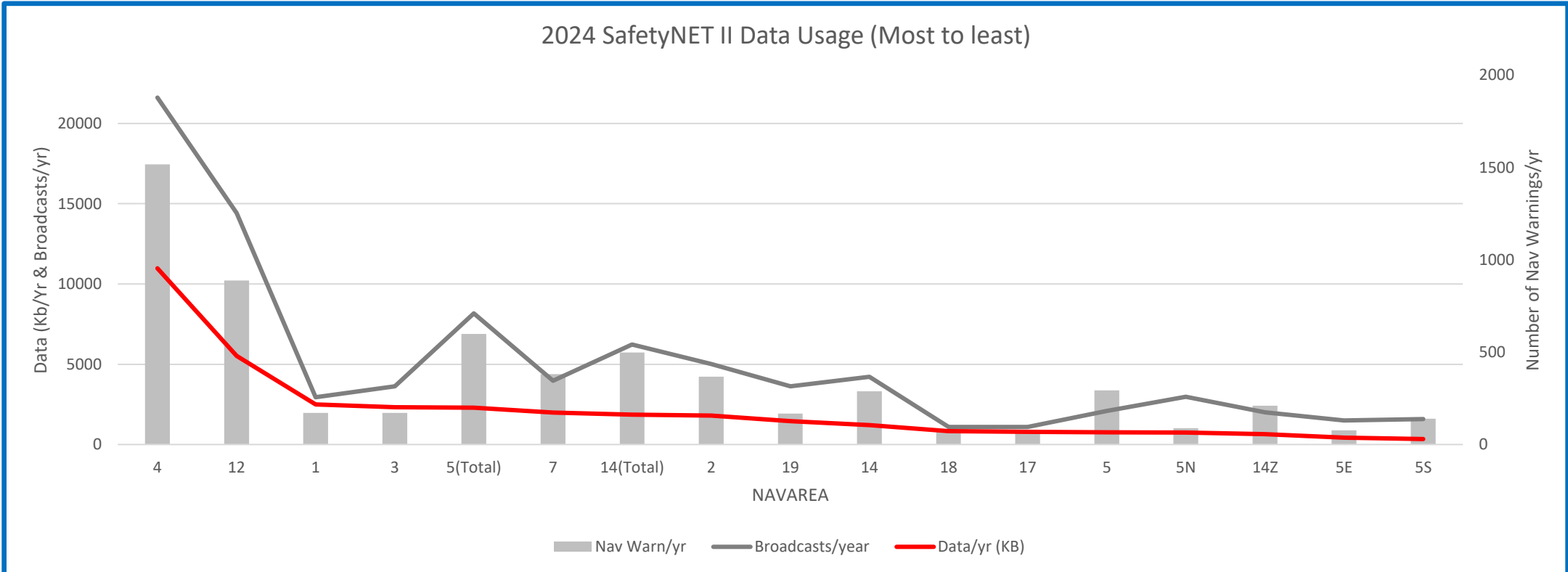


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2024 Inmarsat Data Usage – Most to Least

(Estimated)

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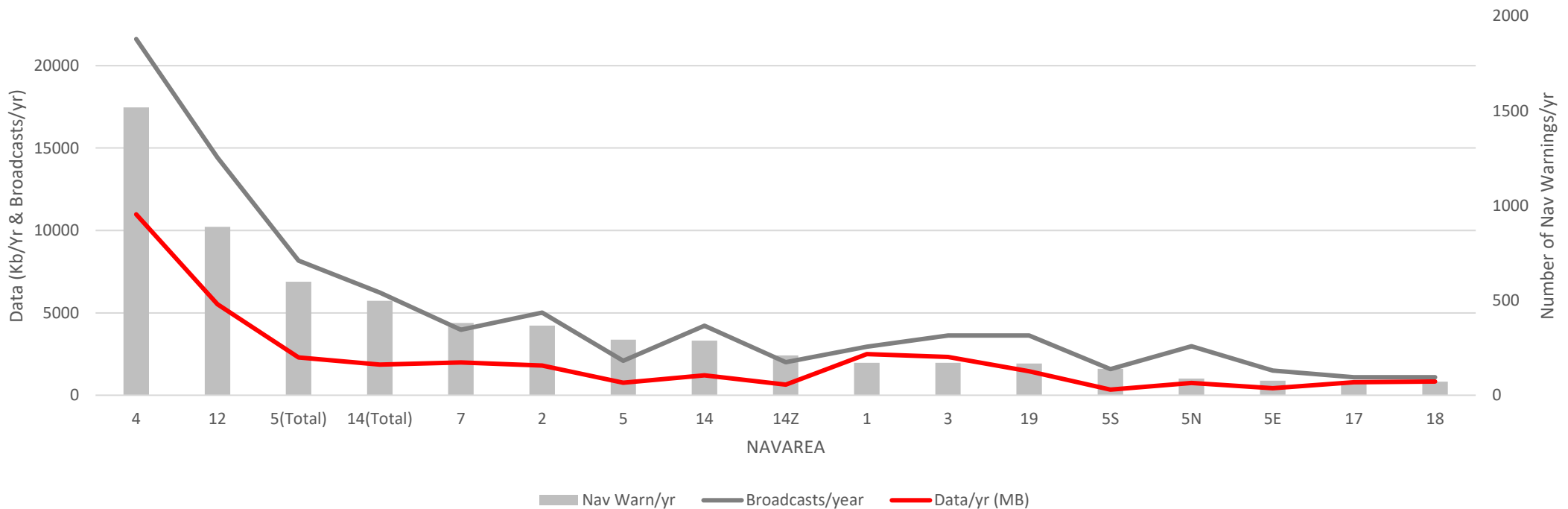


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2024 Navigational Warnings issued– Most to Least (Estimated)

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2024 SafetyNET II Usage by Nav Warnings (Most to least)



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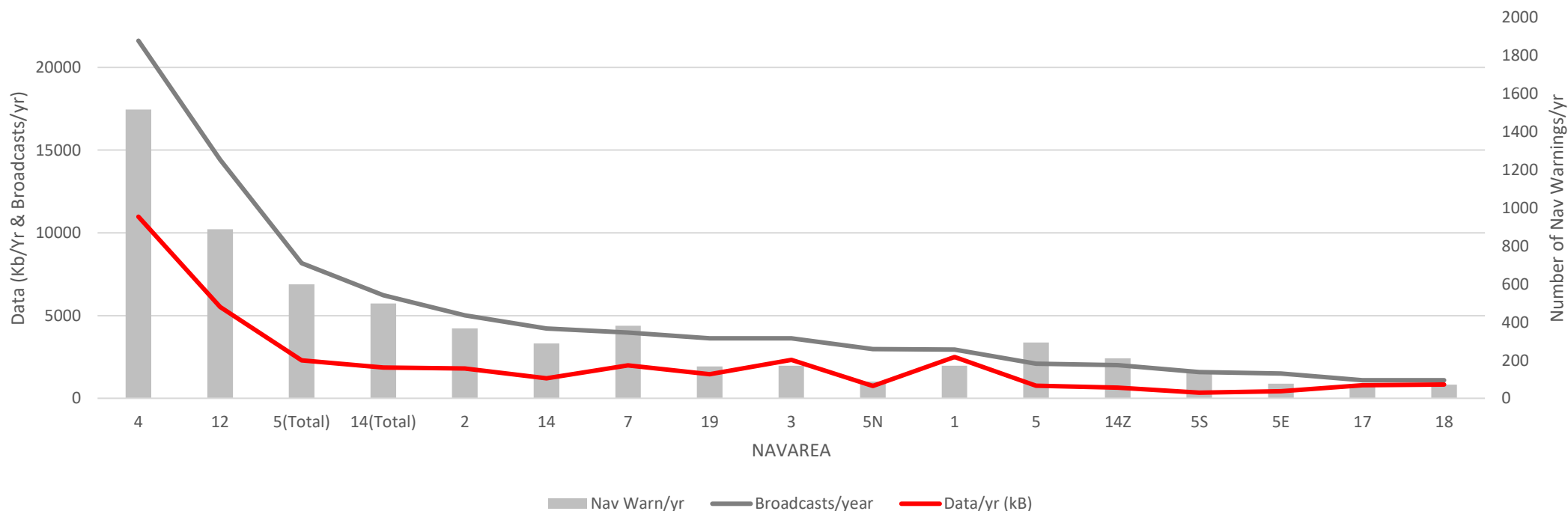
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2024 Navigational Warnings broadcast– Most to Least

(Estimated and includes repetitions)

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2024 SafetyNET II Usage Estimates by broadcasts (Most to least)



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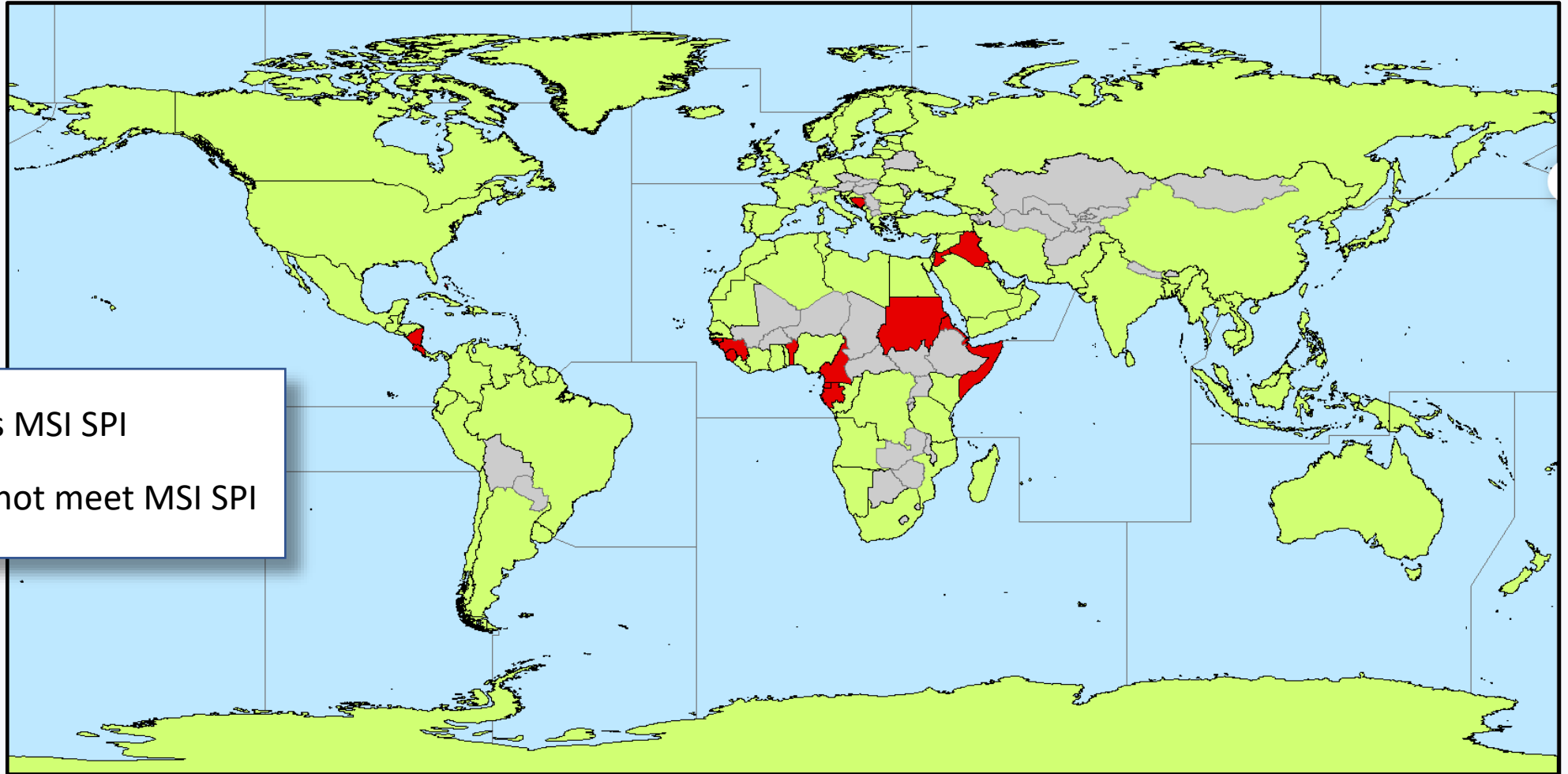
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C-55 GIS Project to identify MSI capacity

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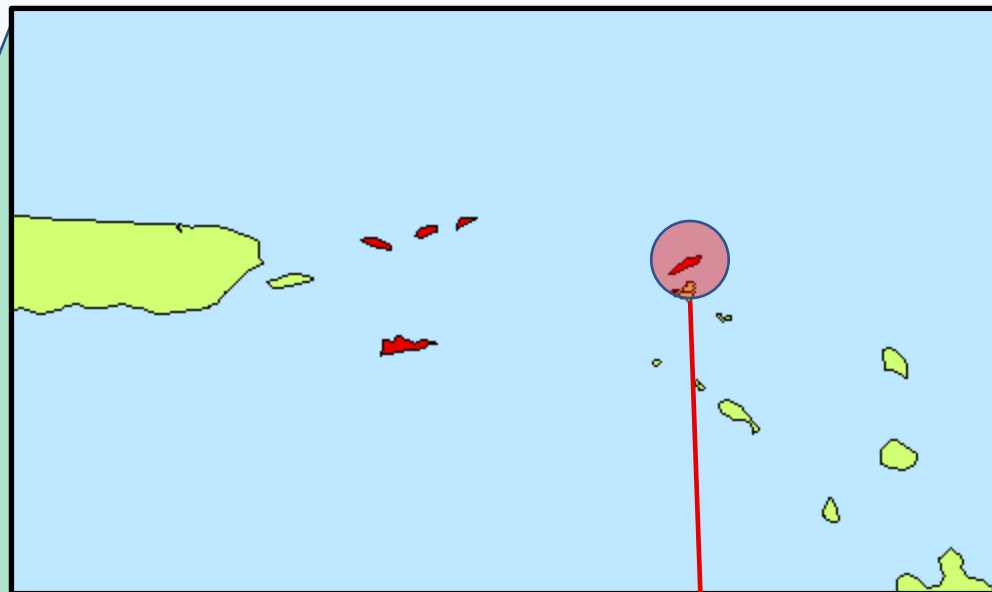
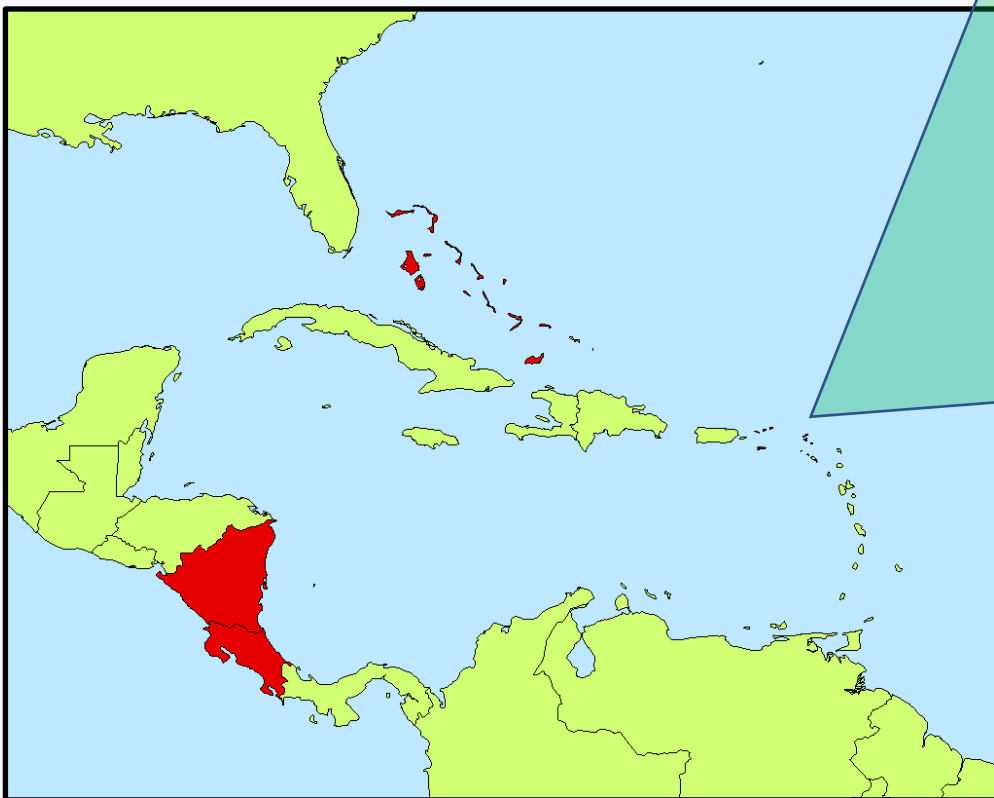
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Coastal State attribution

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Field	Value
OBJECTID	7
Shape	Polygon
MSI Status	Bad
National Coordinator	Rawle Hazell
Phone	+1 264 497 2651
Email	rawle.hazell@gov.ai
NAVAREA	IV
2nd NAVAREA	<null>
3rd NAVAREA	<null>
RHC	Meso American & Carribean Sea HC
Country Name	Anguilla
ISO	AI
Affiliated Country	United Kingdom
AFF_ISO	GB
Shape_Length	0.468389
Shape_Area	0.007798

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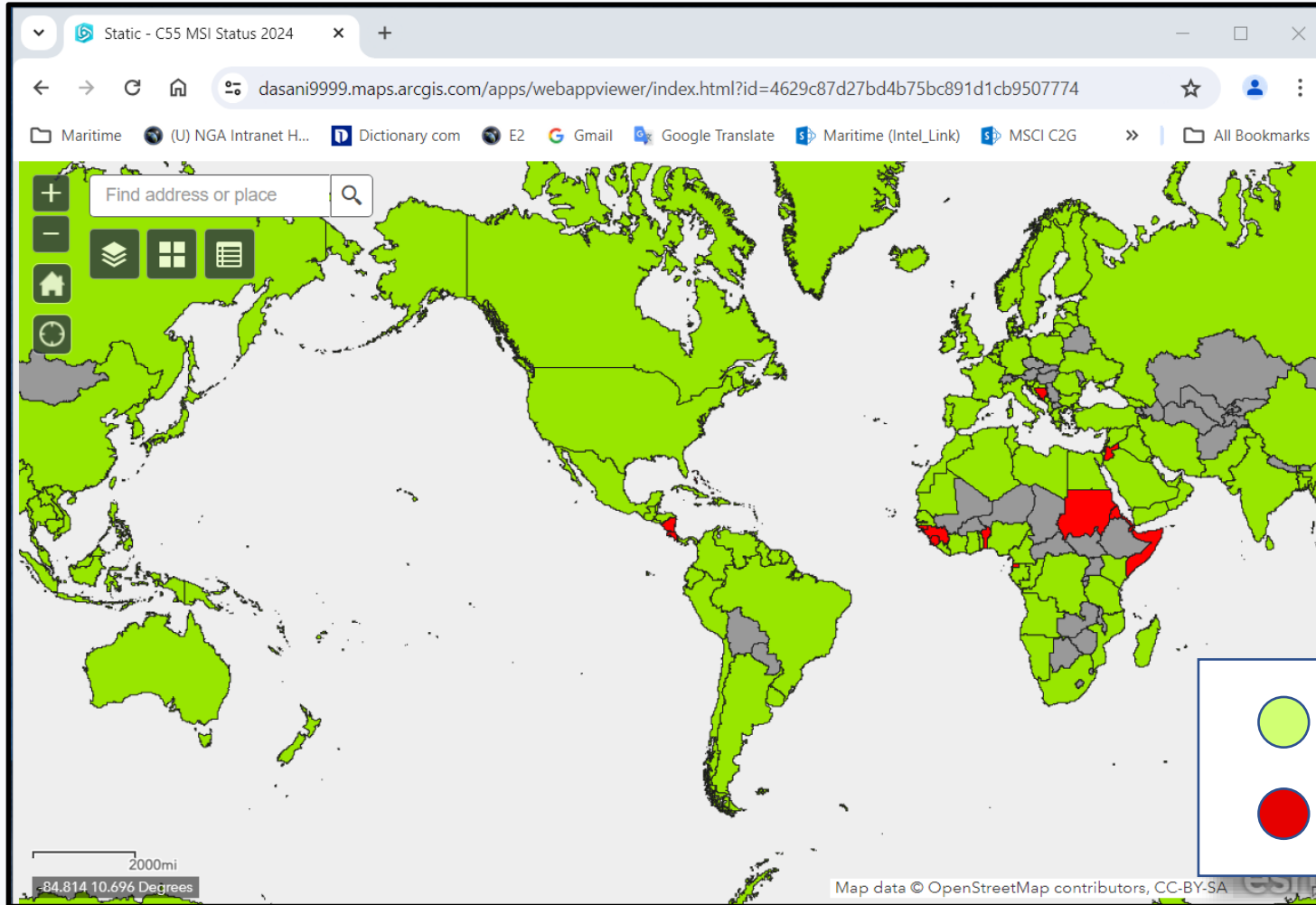
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C-55 GIS Project to identify MSI capacity

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maps.arcgis.com

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Static - C55 MSI Status 2024

dasani9999.maps.arcgis.com/apps/webappviewer/index.html?id=4629c87d27bd4b75bc891d1cb9507774

Find address or place

600mi

-81.229 14.095 Degrees

Map data © OpenStreetMap contributors, CC-BY-SA

POWERED BY esri

C55_Training_Summary_WFL1

Options Filter by map extent Zoom to Clear selection Refresh

OBJECTID	COUNTRY	ISO	COUNTRYAFF	AFF_ISO	National_Coordin Email	NAVAREA	Status	Phone
7	Anguilla	AI	United Kingdom	GB	Shamar Flemming	sharmar.flemming@IV	Good	+1 264 497 2651
9	Antigua and Barbuda	AG	Antigua and Barbuda	AG	Darion Lake	dlake@abreistry.a IV	Good	+1 268 462 1273
12	Aruba	AW	Netherlands	NL	Dutch Caribbean Coast Guard	n.silvacostada@m IV	Good	+5999 434 6100
17	Bahamas	BS	Bahamas	BS		IV	Requires Training	

46 features 2 selected

Next step: move the web map to the IHO's ArcGis online server and add a link to the WNNWS web page

maps.arcgis.com



IHO.maps.arcgis.com

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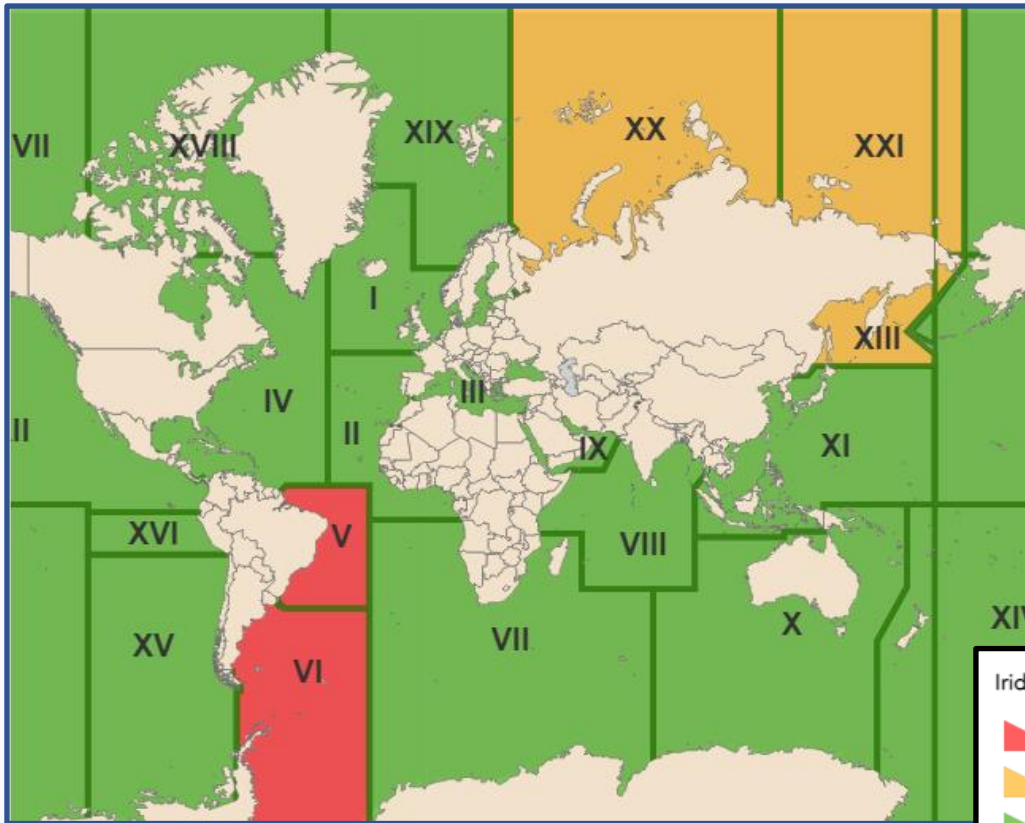


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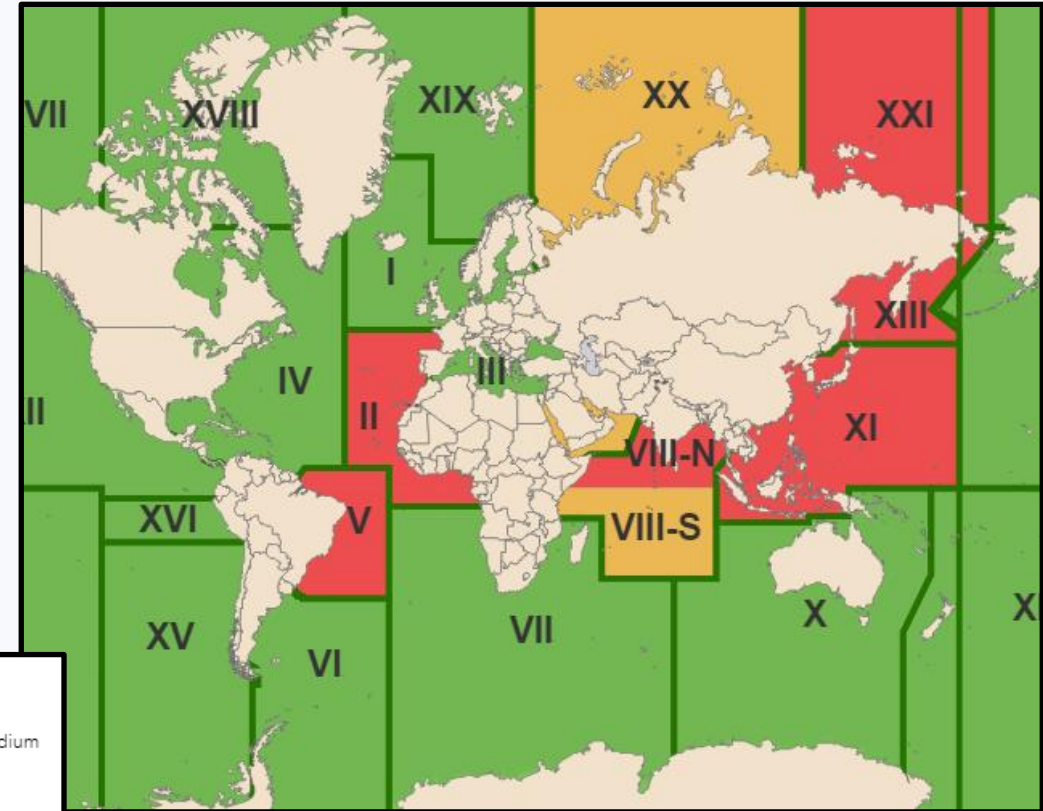
Iridium SafetyCast Implementation 2024

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NAVAREAS



METAREAS



Iridium Safety Cast Implementation

- Planned or concluded agreement with Iridium
- In Trials
- Operational

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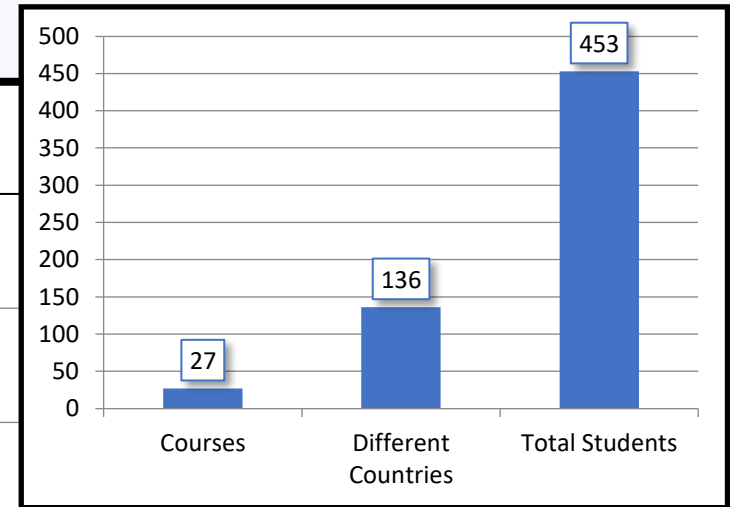
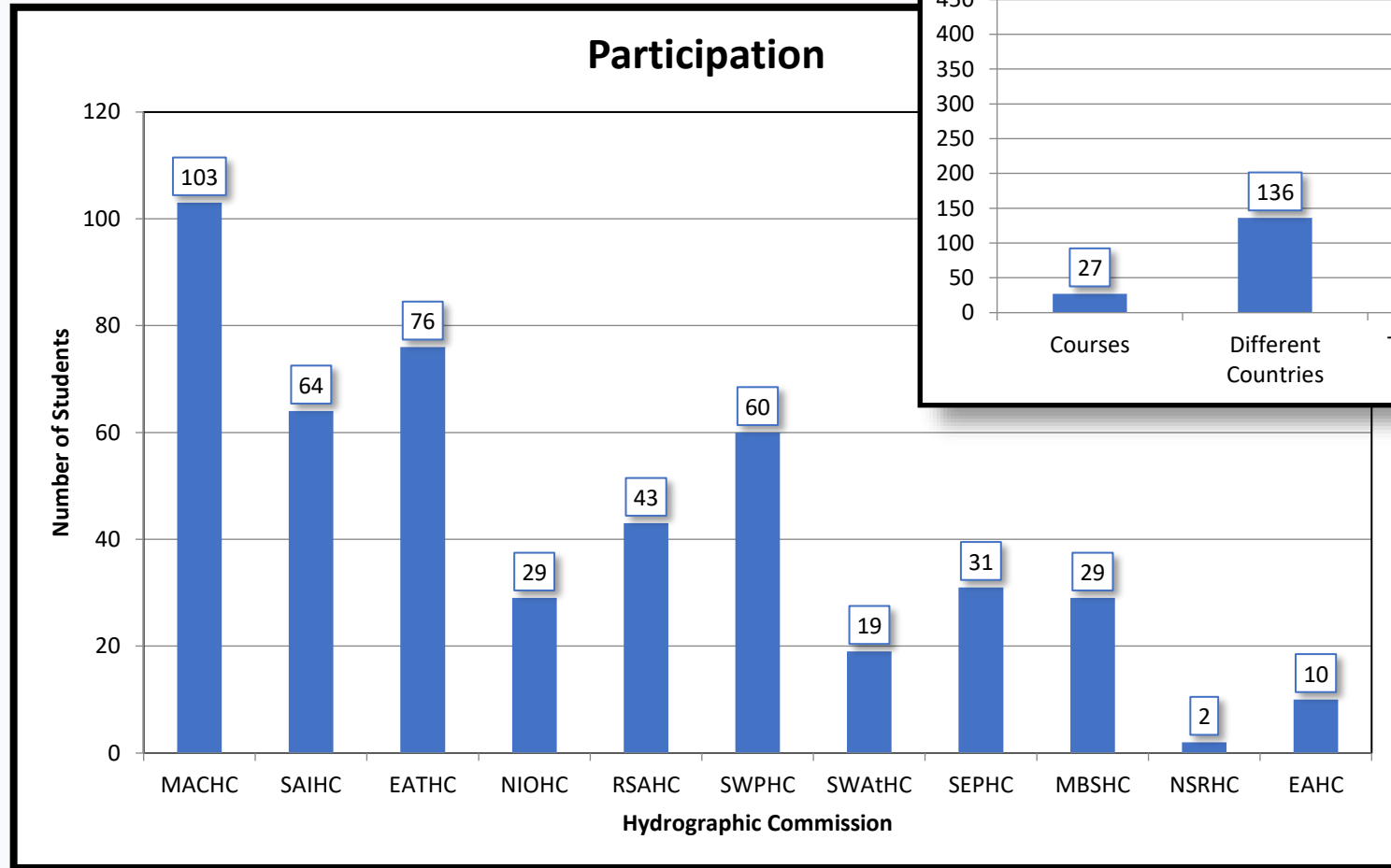
MSI Capacity Building

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- Last courses:
Istanbul, Turkey (MBSHC)
May 2024

Muscat, Oman
(RSAHC/SAIHC/NIOCH)
October 2023

- Next Courses:
NIOHC and MACHC



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S-124 Update

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- S-124 version 2.0.0 endorsed by WWNWS15 and submitted to HSSC16 for approval.
- MSC 108 approved the updated Joint IMO/IHO/WMO Manual on Maritime Safety Information
- S-124 Document Encoding Guide draft version complete and continues to be improved
- Future work:
 - Create a dedicated WWNWS S-164 working group with a representative to the S-164WG to create a test data set.
 - Develop a method to validate S-124 data



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WWNWS Document Review Schedule

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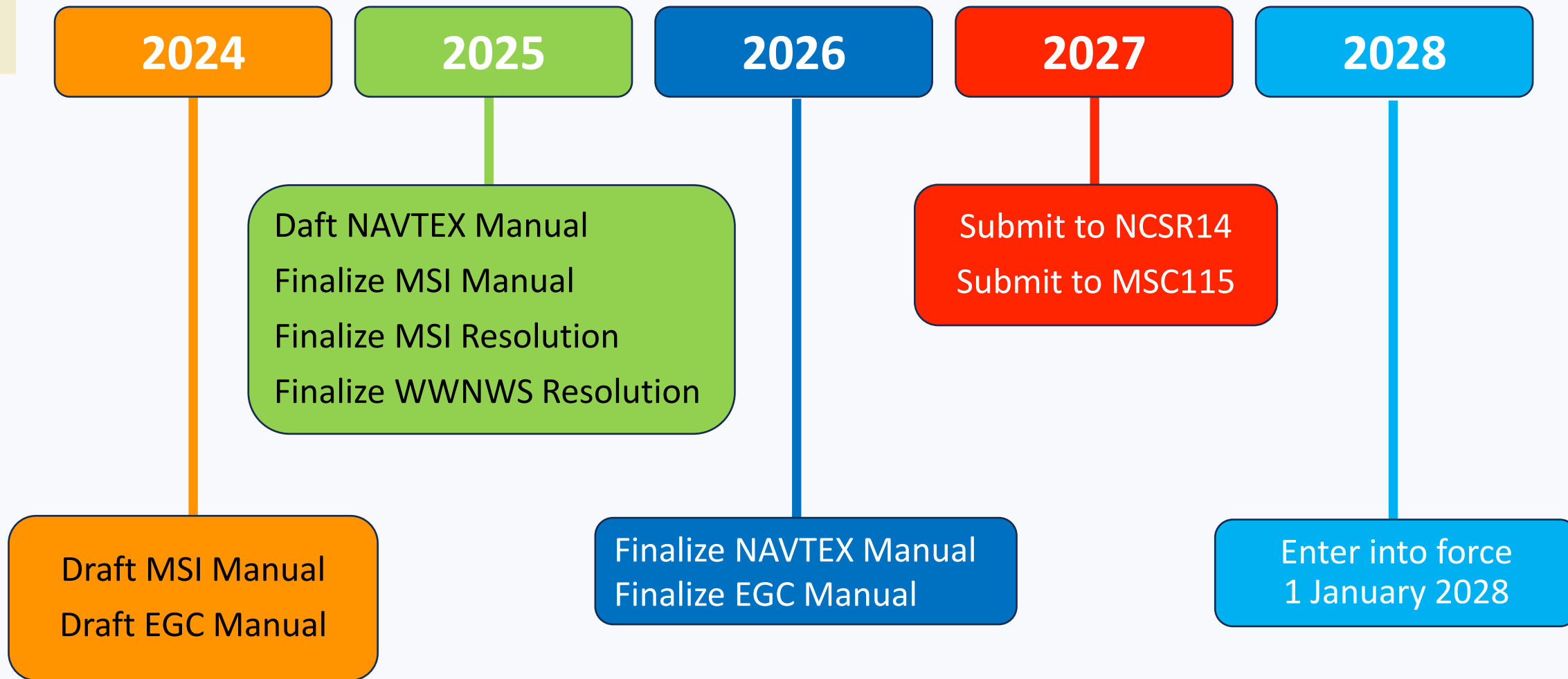
- Resolution MSC.468(101) – Amendments to Promulgation of Maritime Safety Information (Resolution A.705(17), as amended)
- Resolution MSC.469(101 – Amendments to World-wide Navigational Warning Service (Resolution A.706(17), as amended)
- MSC.1/Circ.1310/Rev.1 – Revised Joint IMO/IHO/WMO Manual on Maritime Safety Information
- MSC.1/Circ.1403/Rev.1 – Amendments to the Revised NAVTEX Manual
- EGC Manual
 - MSC.1/Circ.1364/Rev.2 – International SafetyNET Services Manual
 - MSC.1/Circ.1613 – Iridium Safetycast Service Manual
 - MSC.1/Circ.#### – Safety Link Manual



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WWNWS Document Review Schedule

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Actions requested of the IRCC

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- **Note** the information provided in this report on the outcomes of WWNWS15;
- **Encourage** relevant Member States to implement all IMO recognized mobile satellite services;
- **Take** any other action it considers appropriate.