

# Meso-American & Caribbean Sea Hydrographic Commission

## MACHC Maritime Safety Information Working Group (MSI WG) Report 2023

MSI WG Chair

Christopher Janus (United States)



IHO

International  
Hydrographic  
Organization



# Presentation Agenda

---

- Terms of Reference (approved)
- NAVAREA IV/XII report to the 15<sup>th</sup> meeting of the WWNWS
- IMO Navigation, Communications, and Search and Rescue (10<sup>th</sup> meeting)
  - IMO/IHO/WMO Manual on Maritime Safety Information
  - Development of Performance Standards for a Digital Navigational Data System (NAVDAT)
- Space Activities
- C-55
- CARIBE WAVE
- S-124
- Election of the Chair and Vice Chair
- Work Plan for 2024



IHO

International  
Hydrographic  
Organization



# NAVAREA IV/XII Report

- Limits of NAVAREA IV/XII
- Operational Points of Contact for National Coordinators
- GMDSS Master Plan update
- NAVTEX Points of Contact
- NAVAREA Metrics
- Operational issues
- WWNWS 15 Action:  
Investigate/consider whether a NAVAREA should issue a navigational warning for a 'Saildrone' when it is operating within its NAVAREA

WWNWS  
Meeting 15  
Agenda Item 3.2

WWNWS15/3/2/IV/XII  
22 Aug. 2023

MSI Assessment for NAVAREA IV/XII  
Reporting period from 1<sup>st</sup> Jan 2021 to 31<sup>st</sup> December 2022  
Submitted by United States/NGA

**SUMMARY**

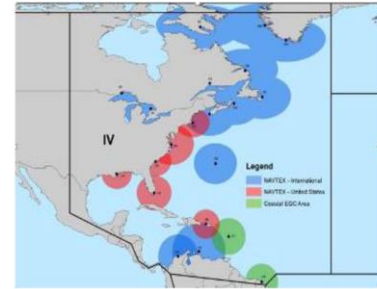
Executive Summary: Synopsis of activities within NAVAREA IV/XII within the reporting period.  
Action to be taken: For the subcommittee to please note the report.  
Related documents: None

1. General information:

1.1. Geographic Boundaries of the NAVAREA including boundaries for any coastal warning Areas and NAVTEX Stations:

Limits of NAVAREA IV:

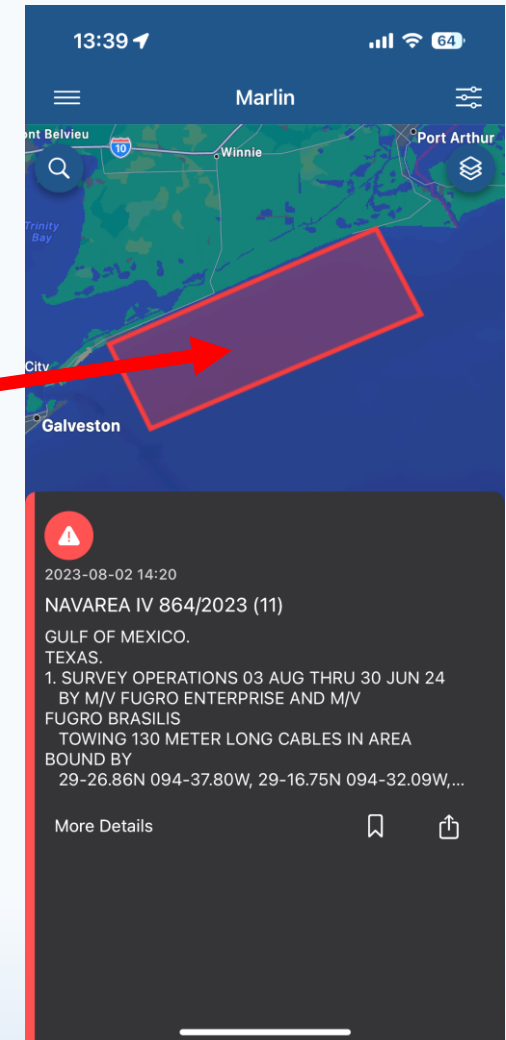
From the east coast boundary of French Guiana to 07-00N out to 035-00W, from there to 067-00N and the coastline of Greenland, following 067-00N to the coastline of Canada (Baffin Islands area).  
Primary Inmarsat EGC Satellite used for broadcast: AOR-E  
Broadcast Times: 1000 UTC and 2200 UTC daily



The map displays the geographic boundaries of NAVAREA IV, which covers the eastern coast of South America (French Guiana) to the Baffin Islands area of Canada. It also shows the locations of various NAVTEX stations, categorized as International (blue), United States (red), and Coastal EGC Area (green).

# IMO/IHO/WMO MSI Manual (In force 1 January 2025)

- Standard Message Element 6  
Geographical Position
  - **Every navigational warning should have an associated geographic position**
  - **Every navigational warning should have a geographic position suitable to support an ECDIS**
- Updated navigational warning examples
  - Aligned to S-124 message categories (*Warning Type General and Warning Type Details*)
    - *Warning Type General: Drifting hazard (Message Category in the MSI Manual)*
    - *Warning Type Details: Container adrift*



# NAVDAT Roadmap

---

- Determine if the intent is for NAVDAT to **eventually replace NAVTEX**, and if so, **what is the time frame and regulatory amendments required**.
- Determine if **NAVDAT can support the S-100 data model** for providing maritime safety information to ships at sea, for navigational warnings, meteorological warnings and forecasts and ice information. *Can it support the volume of information?*
- Engage with the IHO and WMO on the development of **guidelines and procedures for the integration process**, including a NAVDAT manual and **operational implementation plan as a component of the WNWWS and WWMIWS**

 **YouTube** [NAVDAT vs NAVTEX Myths & Misconceptions](#)



**IHO**

International  
Hydrographic  
Organization



# Space Operations Working Group

- 13 NAVAREA Represented
- 4 National Coordinators
- 8 Space Operators
- 3 Other Attendees such as aviation administrations

## NEXT STEPS

- Geospatially displaying data via an easy to access platform
- S-124 warnings for space operators
- Detailed analysis of how seafarers operate in areas in which they may encounter space hazards
- Educational outreach to help new space operators understand their responsibilities with respect to the WNWNS



Australian  
Space Agency

SPACEX

ROCKETLAB



GILMOUR SPACE



SOUTHERN  
LAUNCH

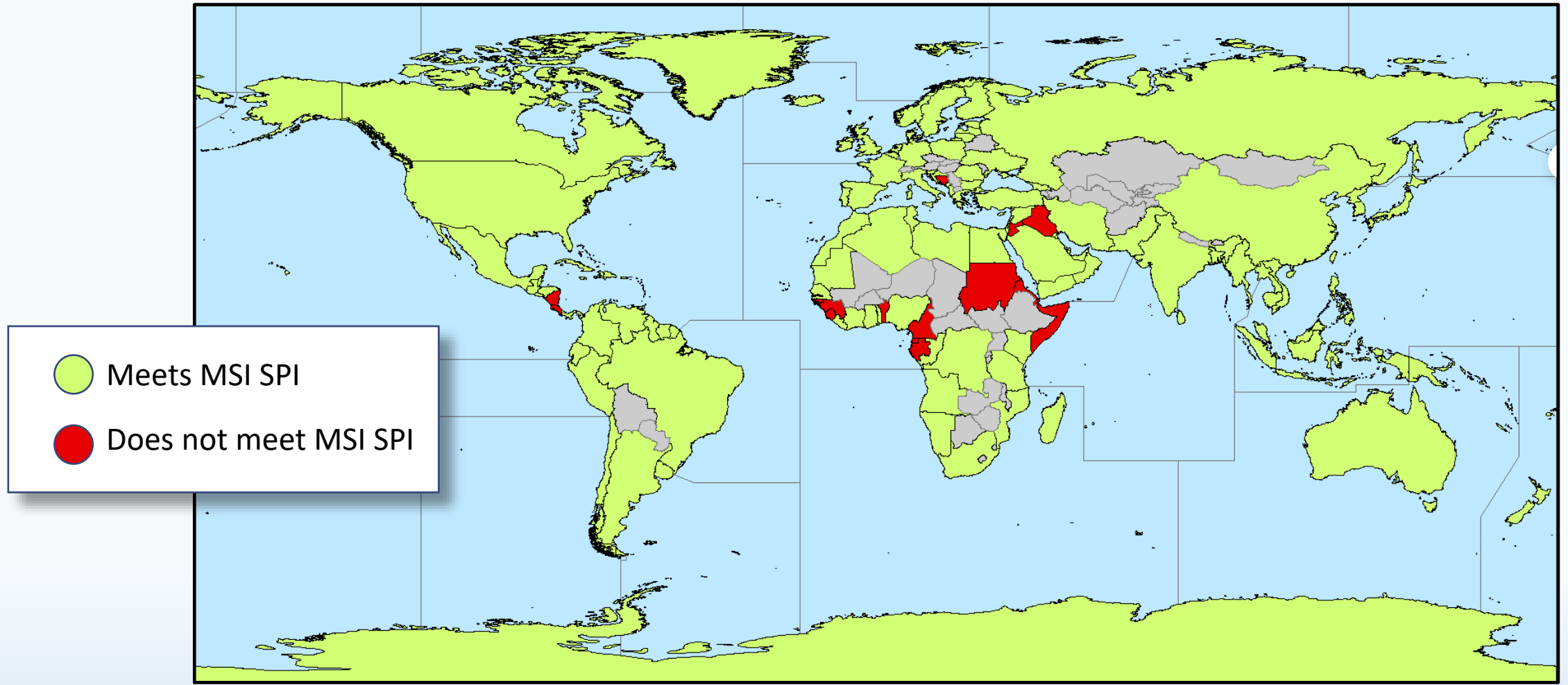


IHO

International  
Hydrographic  
Organization



# MSI Capacity support to C-55

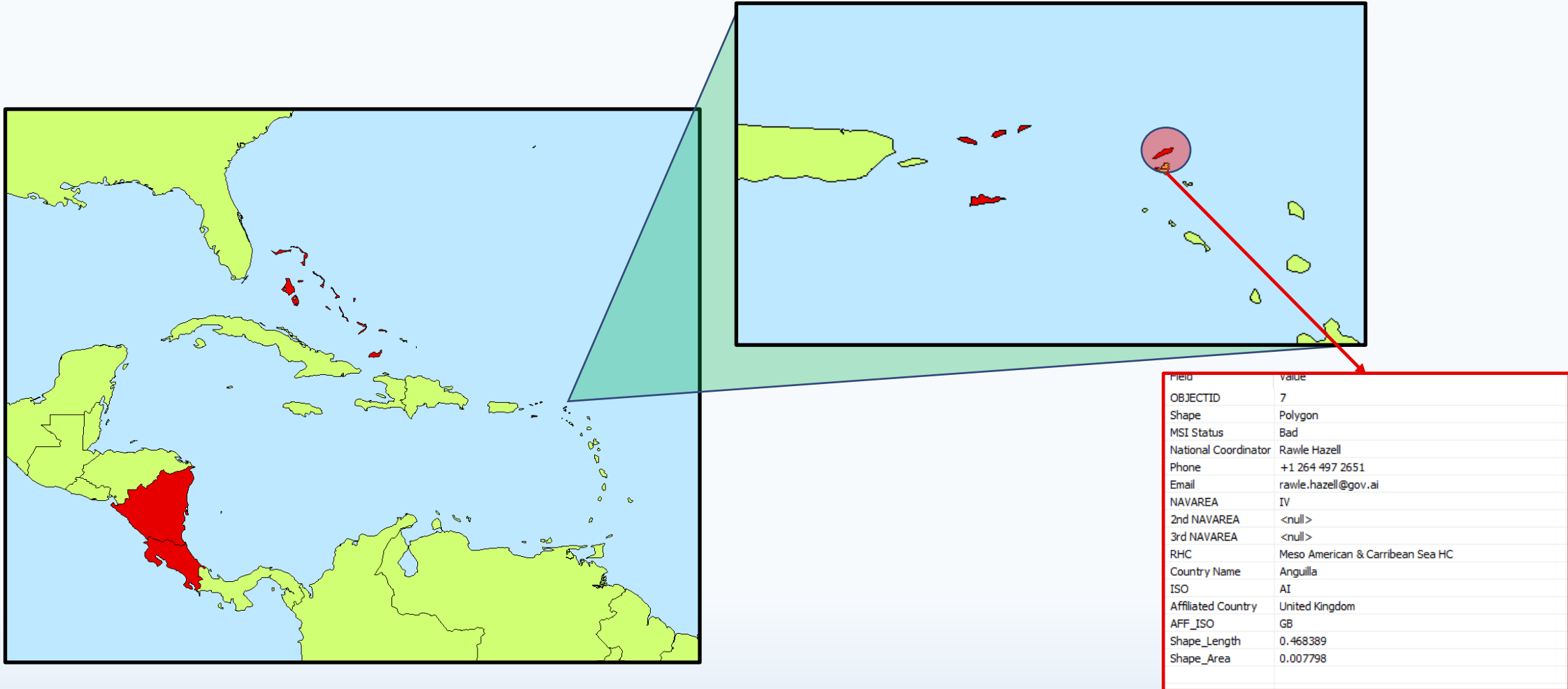


IHO

International  
Hydrographic  
Organization



# MSI Capacity support to C-55 (Coastal State attribution)



IHO

International  
Hydrographic  
Organization





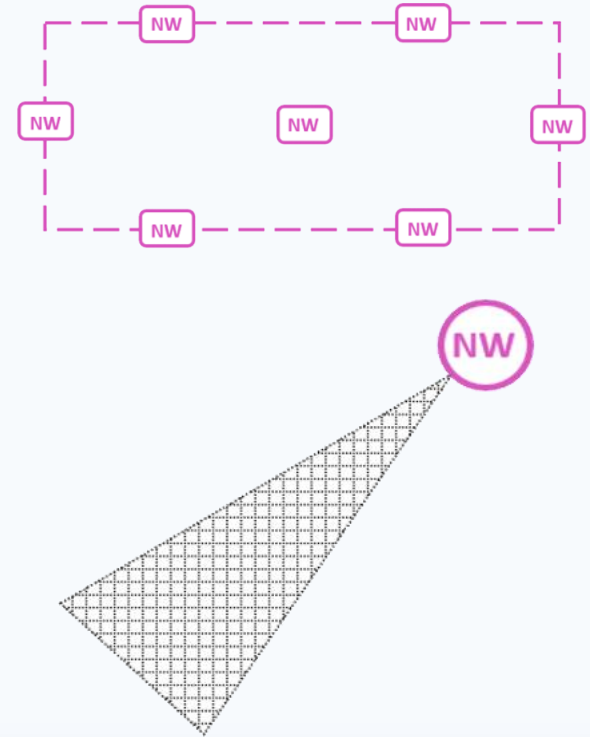
# Tsunami Preparedness: CARIBE WAVE

- **Tsunami Ready** is a community-based recognition program aims to build resilient communities through awareness and preparedness strategies that will protect life, livelihoods and property from tsunamis in different regions
- **CARIBE WAVE** aims to make 100% of coastal communities at risk of tsunamis prepared and resilient by 2030.
  - Its purpose is to practice and evaluate tsunami procedures and enhance public awareness and preparedness within the Member States and Territories



# S-124 Navigational Warnings

- S-124 Project Team (PT) chaired by Canada
  - HSSC 15 approved S-124 version 1.0 (test standard) in June 2023.
  - The WWNWS expects version 2.0 (operational standard) to be presented to HSSC 16 for approval in June 2024
- How can you get involved?
  - Participate in the S-124 PT
  - Develop test cases
  - Test review sessions
  - Data Classification and Encoding Guide
  - Validation Check Expansion
  - **Development of the MACHC S-124 implementation plan**



# Election of the Chair and Vice Chair

---

- Chair: Mr. Timothy “Ed” Stacy, United States
- Vice Chair: Vacant (no volunteers)



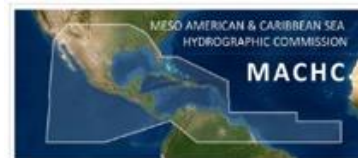
IHO

International  
Hydrographic  
Organization



# Work Plan for 2024

Work Item	Work Activity	Milestones	Start Date	End Date	Status P: Planned O:Ongoing C:Completed S: Suspended	Comments	Contact
1	Approval of the MSIWG Terms of Reference	*Members of the MSIWG Review existing TOR, *Members to propose edits to draft TO * Distribute TOR for the wider comment from the MACHC; *Approve TOR	11-Dec	15-Dec	C		
2	Election of Chair/Vice Chair of MSI WG	*Members of the MSIWG to accept nominations *Members of MSIWG to vote on Chair/Vice Chair Positions (If Needed), *Bring results to wider MACHC	11-Dec	15-Dec	C		



# Work Plan for 2024

Work Item	Work Activity	Milestones	Start Date	End Date	Status P: Planned O:Ongoing C:Completed S: Suspended	Comments	Contact
3	MSIWG to develop a list of additional tasks needed to support MSI promulgation and development within the MACHC region	*Determine the subjects to be covered by meetings of the MACHC MSIWG, *Develop list; *Use list to determine agenda of further meetings	11-Dec		O		
4	MSIWG to develop a S-124 plan for the MACHC	*Determine the S-124 requirements for the MACH Region *Determine the means of coastal states to produce s-124; *Develop an implementation plan in accordance with IMO/IHO guidelines	11-Dec		P		



# Work Plan for 2024

Work Item	Work Activity	Milestones	Start Date	End Date	Status P: Planned O:Ongoing C:Completed S: Suspended	Comments	Contact
5	Conduct Bi-Annual MSIWG Meetings	*Plan a intersessional MSI WG meeting via telecon; *Plan one in person meeting prior to the MACHC meeting; * Determine if more MSIWG Meetings are necessary to accomplish the objectives and work plan	11-Dec		0		



# Participation in the MACHC MSI WG

Please contact the MSI WG Chair, Mr. Ed Stacy:

[Timothy.E.Stacy@nga.mil](mailto:Timothy.E.Stacy@nga.mil)



**IHO**

International  
Hydrographic  
Organization

