

# ITEMS PROPOSED BY A MEMBER STATE OR BY THE SECRETARY GENERAL

AGENDA ITEM 7.3

IMPLEMENTATION OF A NEW GLOBAL MSDI LAYER DEDICATED TO MARINE PROTECTED AREAS (MPA)



International Hydrographic Organization REFERENCE: COUNCIL DOC C7-07.3A

- The creation of a new global thematic MSDI layer dedicated to Marine Protected Areas (MPAs) is in line with the decisions of the 3rd Session of IHO Assembly.
- It intends to support the sustainable use and protection of MPAs. Such a layer will enable compatible GIS systems to monitor the progress towards the goal of protecting 30% of the Ocean, in according with the Agreement on the Protection of Marine Biodiversity of Areas Beyond National Jurisdiction (BBJN), recently approved by the UN Intergovernmental Conference in March 2023.
- The layer will also serve as a trusted and recognized source of information to populate the S-122 – MPA product for navigation compatible with future S-100 ECDIS.



International Hydrographic Organization REFENCE: CONCEPT UPDATE AS A RESULT OF THE NIPWG10 MEETING 12 – 15 SEPTEMBER, MONACO

### **Good news:**

S-122 MPA Edition 2.0.0

is under finalization and is expected to be ready for practical use by April 2024,

but ...

HOs are almost never responsible for environmental regulations

- > Responsible agency(s) differ by country
- ➤ Many may not have resources to produce S-122
- Many MPA restrictions are focused on fishing or extractive uses and not navigation (relevance to SOLAS)
  - ➤ Broad S-122 spec may increase motivation for non-HOs to create data
  - > .... but is arguably outside the scope of IHO remit
- MPAs are often multi-jurisdictional and multi-use further complicating representing clear, concise information to mariners
  - > Different use cases for voyage planning vs bridge navigation



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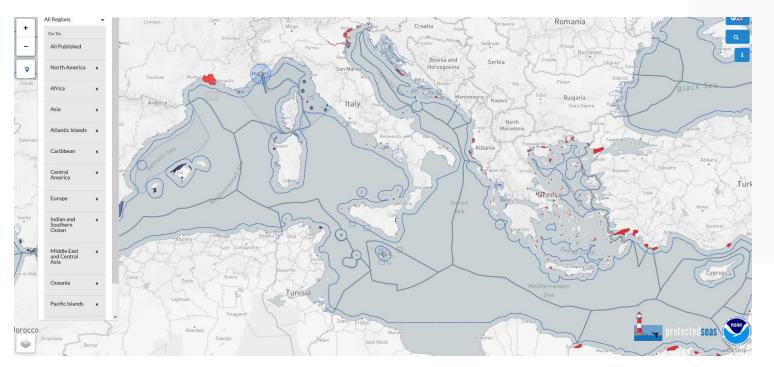
Mr Virgil Zetterlind,
Director ProtectedSeas
presented the global
repository Of MPA
Information
- ProtectedSeas
Navigator - held by this
philantropic
organization

#### **Navigator at a Glance** 21000+ **AREAS** The number of marine areas that were independently resourced and reviewed by the Navigator team. 42 **YEARS PERSON YEARS** The labor that the small but The time it took the Navigator team to research, compile and summarize dedicated team at ProtectedSeas the legal protections for the global put in to complete the global MPA MPA database. review. **\*\*\*** 8000 + **\*\*\*** 2400+ **PAGES AREA BOUNDARIES DIGITIZED** The number of boundaries the The size of the Navigator database of all worldwide legal restrictions for Navigator team created from legal marine managed and protected descriptions for areas where no areas if printed. digital boundary existed previously.



International Hydrographic Organization REFERENCE: CONCEPT UPDATE AS A RESULT OF THE NIPWG10 MEETING 12 – 15 SEPTEMBER, MONACO

The *ProtectedSeas Navigator* holds MPA data of all classes. Content is continously expanding and kept up to date.



# Area Type Breakdown in Navigator

- Total sites w/ Boundaries = 21,000+
  - 13,400 MPAs
  - 5400 Other / Unclassified
  - 2500 Fisheries Management Area
  - 900 Vessel Restricted Area
  - 750 Recreational Area
  - 460 Water Quality Area
  - 155 OECM
  - 23 Voluntary Area
  - 6 Vessel Reporting Areas



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Proposed concept approach for collaboration of MSDIWG and NIPWG with ProtectedSea

## ProtectedSeas Participation with S-122 and NIPWG

- Offer lessons learned and support for an official, global MPA data standard that encapsulates restrictions and regulations
- Provide Navigator as a free resource to help in S-122 design, prototyping, and testing
- Potentially offer Navigator in S-122 format as an unofficial global dataset -- especially until official country level data becomes available
- Partner with IHO member countries to ensure Navigator data is current and up to date

The Secretariat has started conversation with GIS software manufacturers to support S-100 product import/presentation. A global S-122 data set would create an incentive for implementation.

# The ProtectedSeas S-122 Code Project Goals

- Develop software to batch generate S-122 data from Navigator
- Help detail strengths and weaknesses of each S-122 version to inform future revisions
- Provide a testable, large S-122 MPA dataset to HO's and OEMs that is up to date and is internationally complete



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#### **ACTIONS TO BE CONSIDERED BY COUNCIL**

## C-7 is invited to:

- Endorse the concept approach,
- Task MSDIWG via IRCC to start a dialogue with ProtectedSeas aiming to generate an unofficial global S-122 dataset as open data;
- Encourage MSDIWG via IRCC to collaborate with NIPWG directly.
- Task IRCC to report on the progress at C-8.