

10th Meeting of the ROPME Sea Area Hydrographic Commission

National Report by France (Shom)

[RSAHC Associate Member]



IHO TOP ACHIEVEMENT DURING THE YEAR

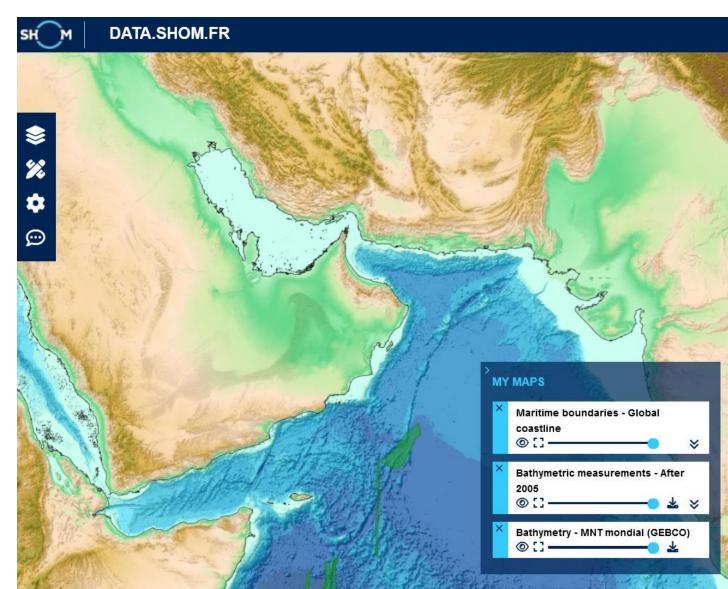
International Hydrographic Organization

MSDI

· data.shom.fr

Latest evolutions:

- Updated layers
 - GEBCO worldwide bathymetric DTM and global coastline
 - Bathymetric measurements
 - Maritime areas chart 8510CX





TOP CHALLENGES AND /OR OBSTRUCTIONS

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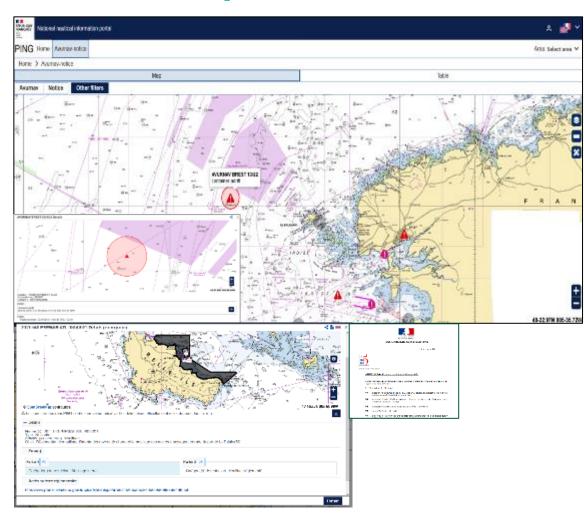
S-124 – French national nautical information platform PING

Shared information system for the transmission, formatting, digitization and posting of nautical information on the Internet

This platform is structured around 3 modules:

- production and diffusion of navigational warnings,
- transmission of source information by maritime services and users in order to contribute to nautical information,
- production and diffusion of maritime regulations in a spatialized form.

Production and dissemination of navigational warnings in compliance with S-124 (as soon as the specification standard is operational) with compatibility with the current NAVTEX and EGC systems





Transformation of the hydro-oceanographic capacities

International Hydrographic Organization

Sketch up of the expected capacities



- Length: 90 metres
- Gross tonnage: 3,000 tonnes
- Average operating speed: 10 knots
- Maximum crew: 80 (29 for specialists)

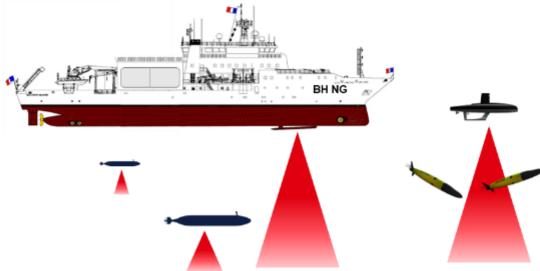
Full hydroacoustic suite

MBES (shallow, medium, large class), SBP, SBES, ADCP, ...

Scientific facilities

- Handling equipment
 - Stern and mid-ship 'A' frame
 - Comprehensive winch suite
- Laboratories (humid and air-conditionned)





Mobile vehicles

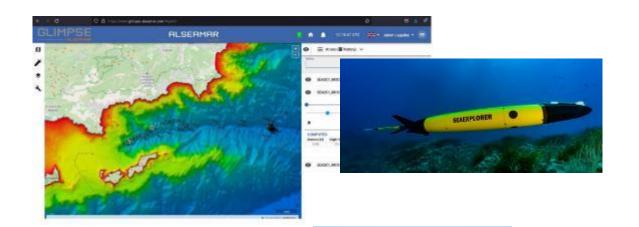
- 2 medium class USV
- 1 hydrographic survey launch
- 1 large oceanic class USV (not on board)
- Micro AUVs
- 1 AUV 6000
- Gliders
- 1 micro and medium class UAV



Transformation of the hydro-oceanographic capacities

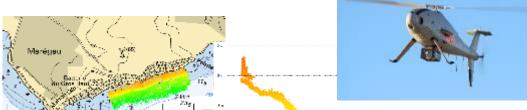
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- Latest experiments & ops
- August 2023 2 gliders Sea Explorer (Alseamar) // July 2024 1st operational survey

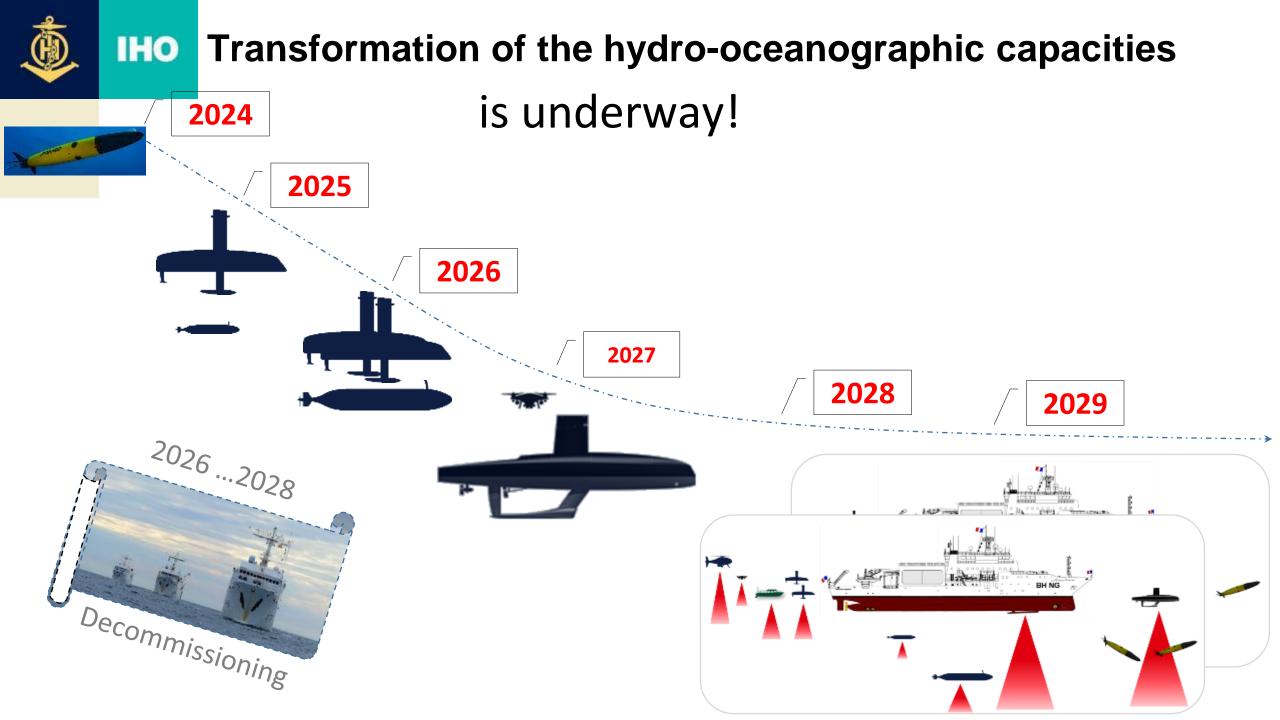


October 2023 – 1 USV DriX (eXail)





Dec 2023 – 1UAV S100 (Schiebel) / Lidar VQ840G (Riegl)





TOP CHALLENGES AND /OR OBSTRUCTIONS

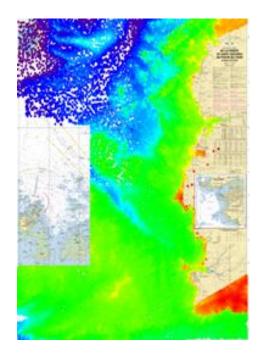
First feedback: twothirds time savings

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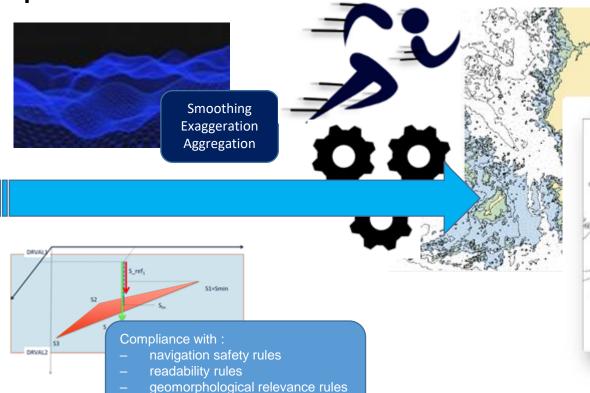
Automatic generalization

Calhypso: a major step forward

Bathymetric knowledge

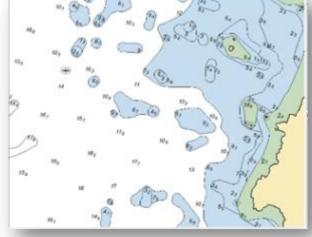


65 500 000 soundings



topological consistency rules

Automated generalized chart



1 417 depth contours3 033 soundings



TOP CHALLENGES AND /OR OBSTRUCTIONS

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Unified Cartographic Source (FCU)

A single charting scale per area

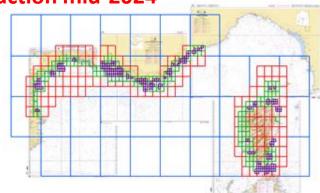
A chart will be a view/extraction from the FCU

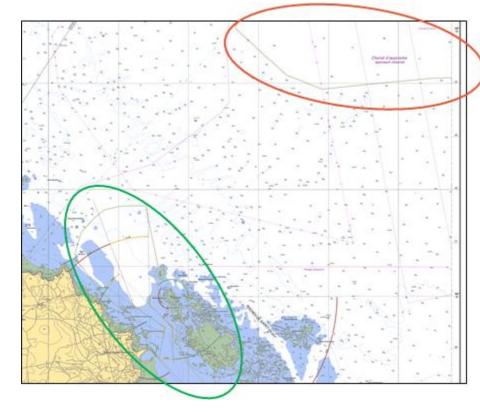
Limited number of compilation scales: 6

Use of a Unified Cartographic Source and Automation

ENC will be produced in a grid scheme

Start of production mid-2024





Gamme	maximumDisplayScale S-101 (CSLC S-57 – Compilation)	minimumDisplayScale S-101
UB1	1:1500000	I
UB2	1: 350 000	1:1500000
UB3	1:90 000	1: 350 000
UB4	1:22 000	1:90 000
UB5	1:8000	1:22 000
UB6	TBD ^(r)	1:8000



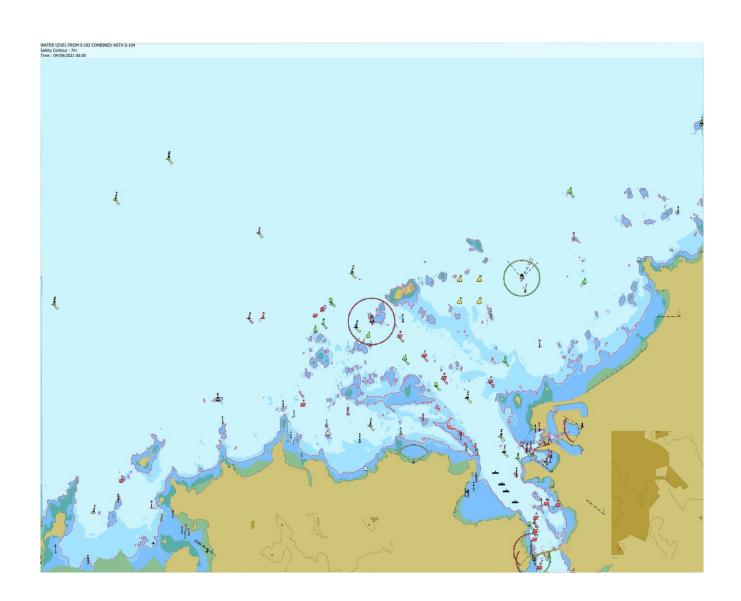
IHO TOP CHALLENGES AND /OR OBSTRUCTIONS

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S-100 strategy

Moving forward the S-100 Phase 1 products

Animated example of an S-102 and an S-104 combined to show users the benefits of the S-100 world





IHO ACTIONS REQUESTED FROM RSAHC10

International Hydrographic Organization

1. To take note of the French national report



Thank you for your attention