

Mediterranean and Black Seas Hydrographic Commission (MBSHC)

National Report by:
ITALY (IIM)



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Organization

MBSHC-24, Constanta, Romania (2-4 July 2024)



Items

- Hydrographic Surveys
- Future Vessel
- Charts and updates
- Publications and updates
- S-100 Strategy
- MSI
- C-55
- Capacity Building
- Oceanographic activities
- Other activities

This report covers the period May 2021 - May 2024



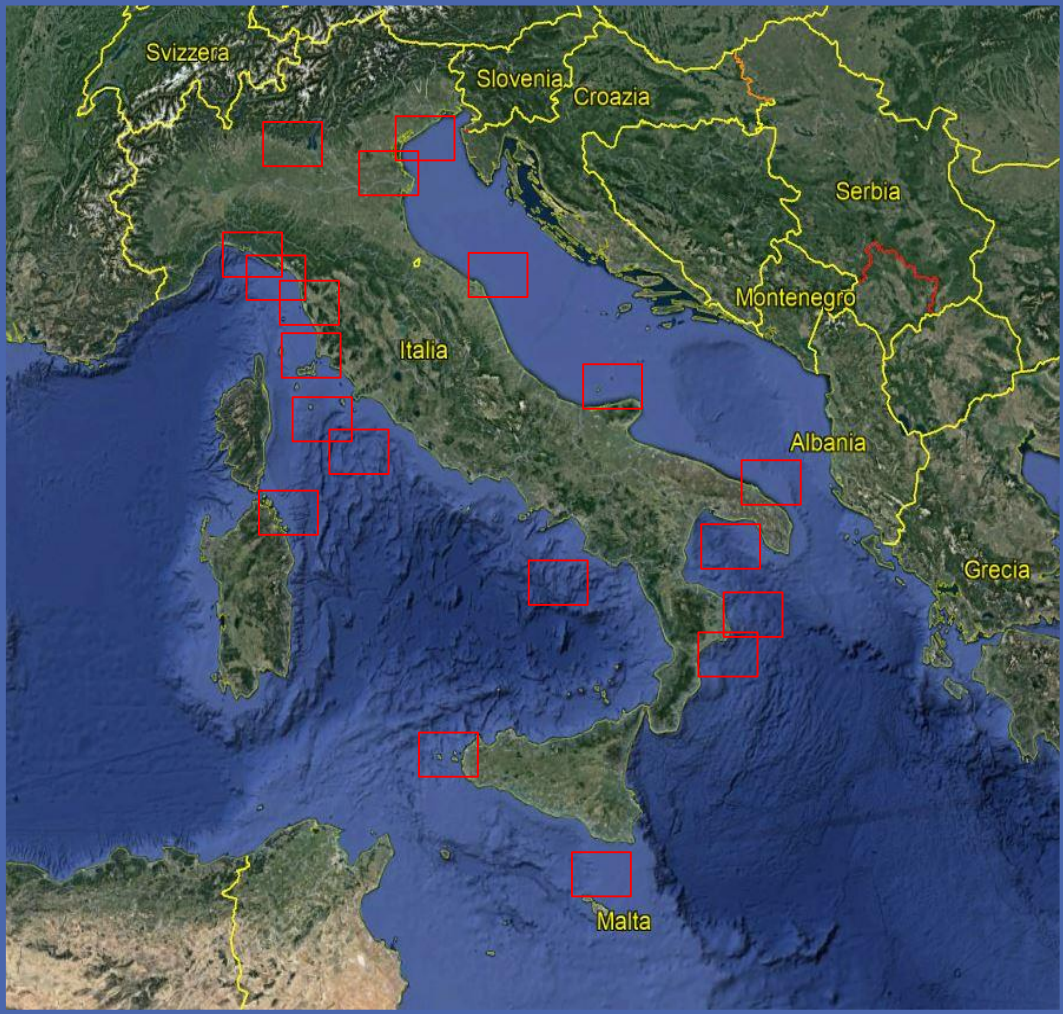
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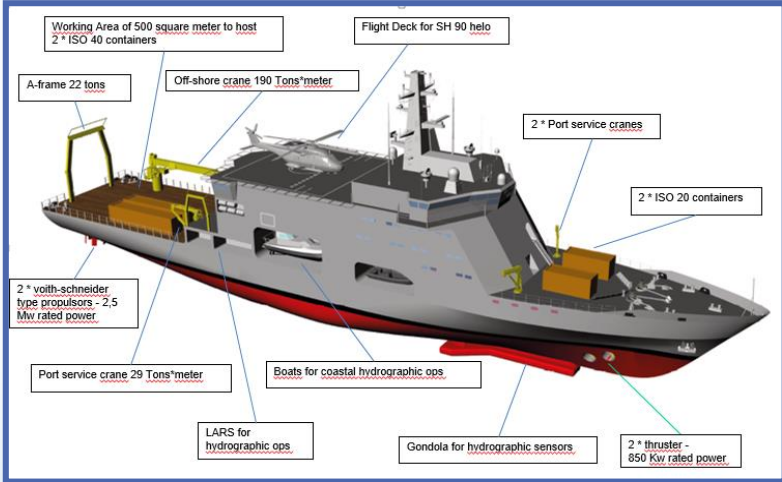
Hydrographic Surveys



IT NAVY Hydrographic Squad.



New Oceanographic R/V – (2026)



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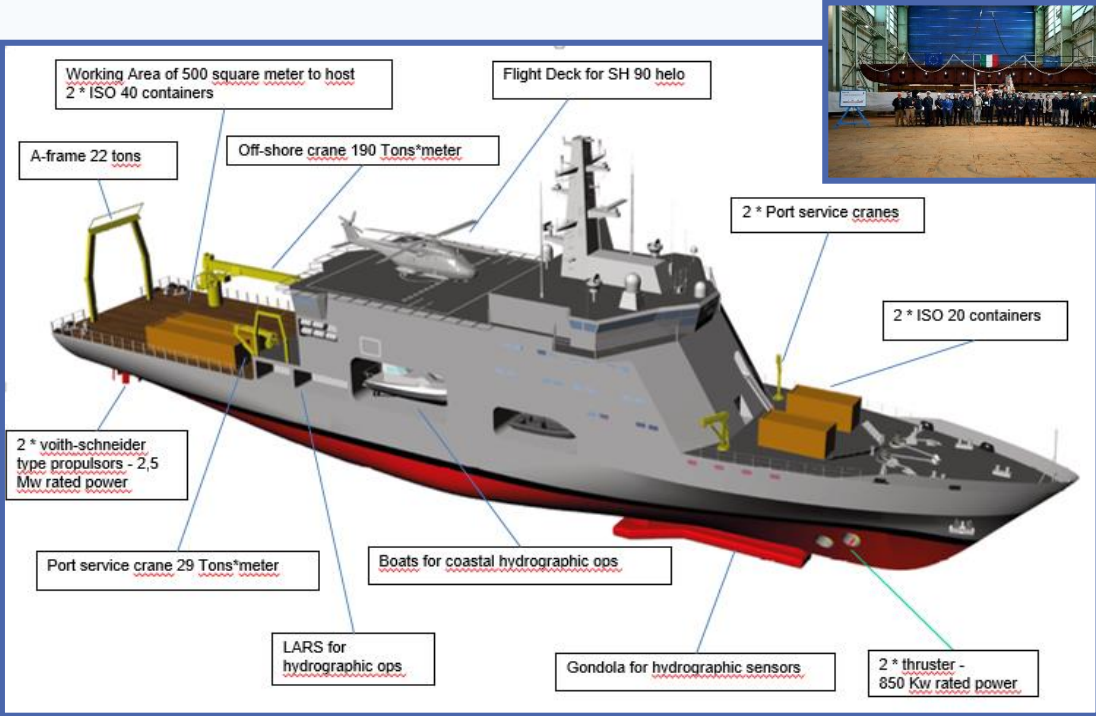
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Future vessels

NIOM

- Nuova Unità idro Oceanografica Maggiore, in line in 2026



NIOC

- Nuova Unità Idro Oceanografica Costiera, 2 vessel up to contract in 2024/2025



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Charts and Updates (ENCs)

- **252** new ENC editions

Usage Band	Produced Cells	Planned Cells	%
1-Overview	2	2	100
2-General	2	2	100
3-Coastal	75	75	100
4-Approach	73	78	94
5-Harbour	92	99	93
6-Berthing	8	6	100
Total	252	262	96



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Charts and Updates (P.C.)

- **7** new INT, **42** new INT editions.

Scale	Produced INT charts	Planned INT charts	%
Small	3	3	100
Medium	16	16	100
Large	30	32	94
Total	49	51	96

- **7** new National Charts, **123** new National Charts editions.
- Pleasure Craft paper charts have been retired since January 1st 2023.



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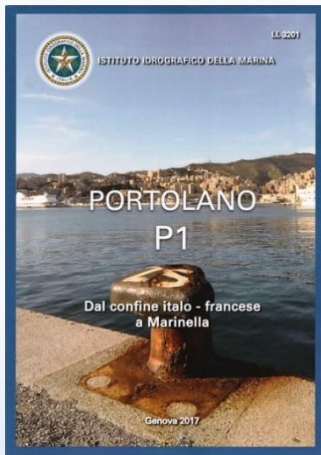
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Publications and updates

- N.5 Catalogue of IT Nautical Documents Portfolio (New Edition)
- N.4 Sailing Directions (P8, P7, P6 and P3 - New Edition)
- Italy is working on a Digital Sailing Directions project that had reached the testing phase in 2024.



S-100 Strategy

Phase 1 (2026)

S -101 ENC (2025 TBC)

S-102 Bathymetry

S-128 Catalogue of Nautical Products

Phase 2 (2028)

S -104 Water level

S -111 Surface Currents

S -122 Marine Protected Areas

S -123 Marine Radio Services

Phase 3 (2029)

S -124 Navigational Warnings (Coast Guard)

S -129 UKC Management (Coast Guard)

S-125 Marine Aids to Navigation (AtoN)



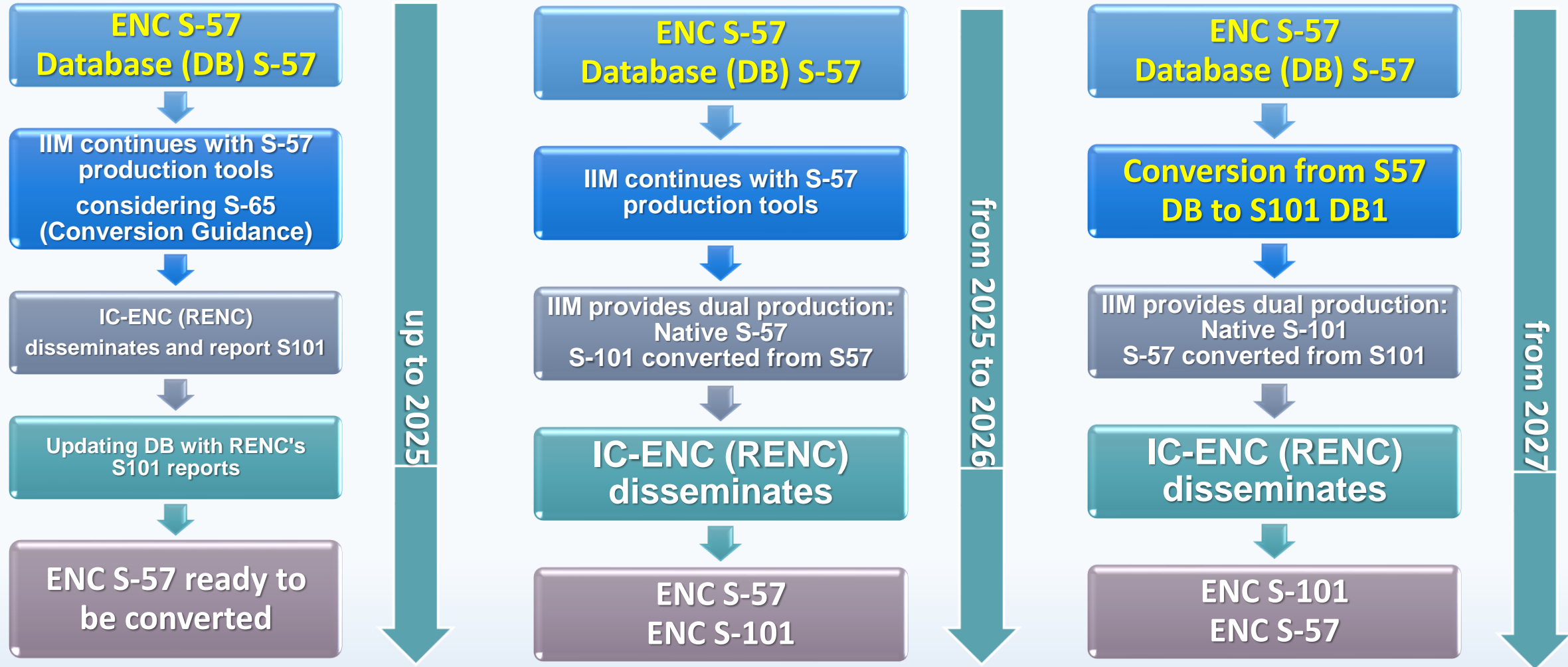
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S-100 Strategy



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MSI

The Italian Coast Guard is the national authority in charge of GMDSS and Navtex Coordinator.

C-55

Report IAW Doc. MBSHC21-6.4.1. Hydrographic survey status in the MBSHC area.



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Hydrographic Surveys Status

Sea Area: 556.218 km²
 Coastline : 7.800 km

	before 1920		between 1920-1970		modern surveys	
Depth [m]	<200	>200	<200	>200	<200	>200
Percentage [%]	3.1	0.3	22.4	44.0	74.4	55.5
Total [%]	0.9		40.1		59.1	



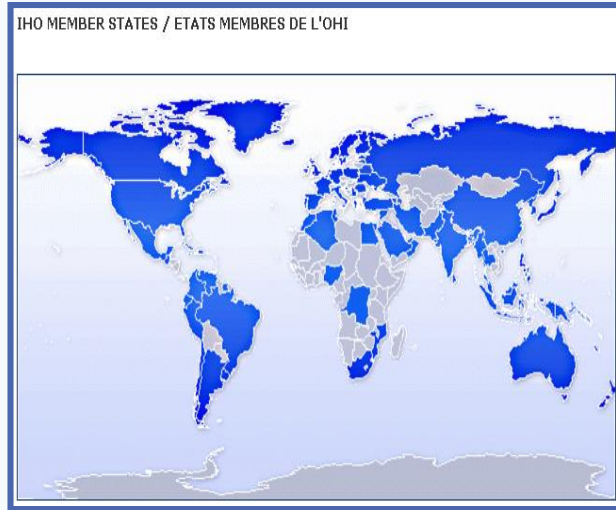
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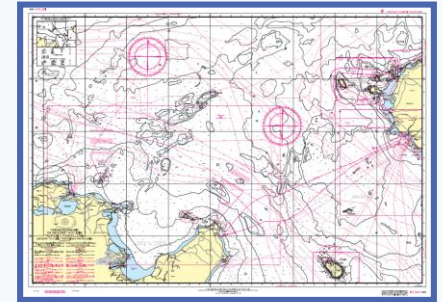
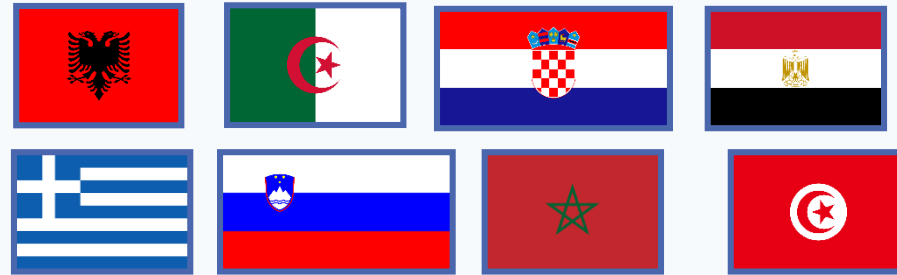


Capacity Building



- **Cooperation in the field of hydrography:**

Albania, Algeria, Croatia, Egypt, Greece, Morocco, Slovenia, Tunisia.



- **Support to Lebanon**

The project is part of the UN “International Support Group” initiative (2014-2020). Led by IIM and financed by Italian Ministry of Defense. Lebanon joined the IHO on December 2020 and subsequently the MBSHC on February 2021.



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Capacity Building

Training offered

2023/2024	2024/2025
<p>10th Marine Geomatics 2nd Level Master Cat. A Hydro Surveyors Recognized by FIG/IHO/ICA IBSC 13 months (2 months OJT on board IT Hydrographic Vessel)</p> <p>Language: English Cooperation: Genoa University Admittance: Master Degree</p>	<p>9th intermediate Course Cat. B Hydro Surveyors Recognized by FIG/IHO/ICA IBSC 9 months (2 months OJT on board IT Hydrographic Vessel)</p> <p>Language: English Admittance: High School Diploma</p>



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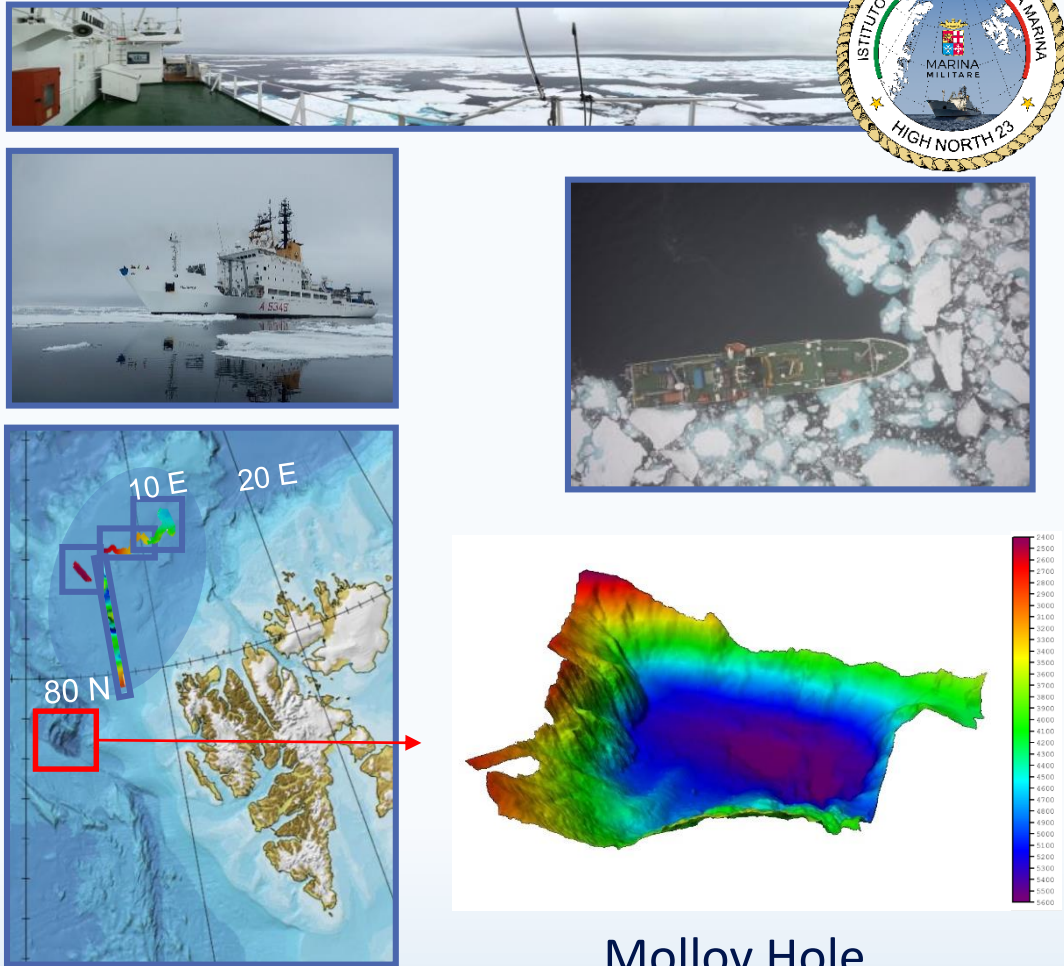
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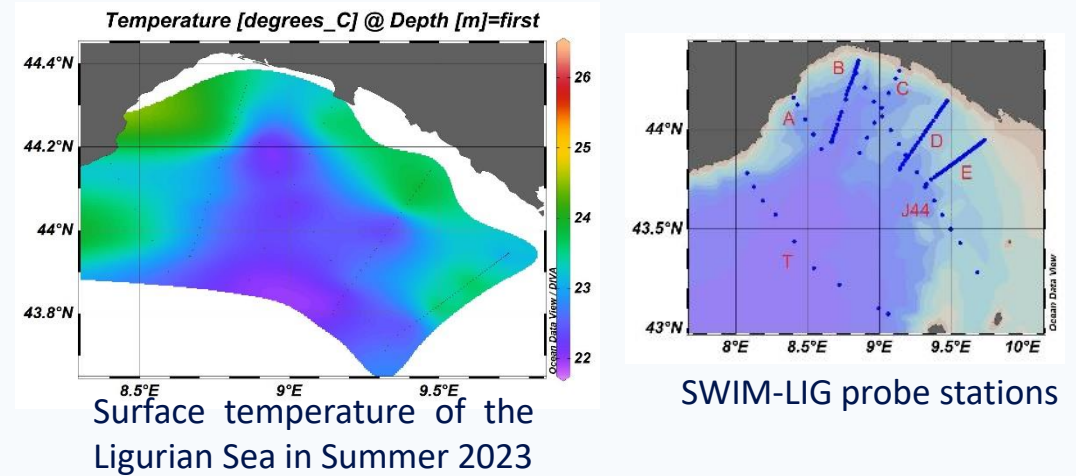
Oceanographic activities

High North Program – (2017 - ongoing)



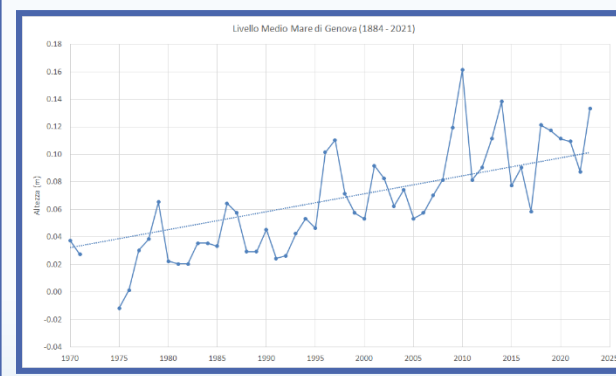
Molloy Hole

SWIM-LIG campaigns – (2017 – ongoing)

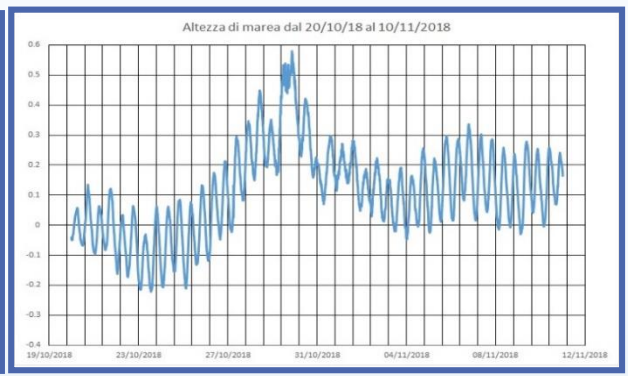


Surface temperature of the Ligurian Sea in Summer 2023

SWIM-LIG probe stations

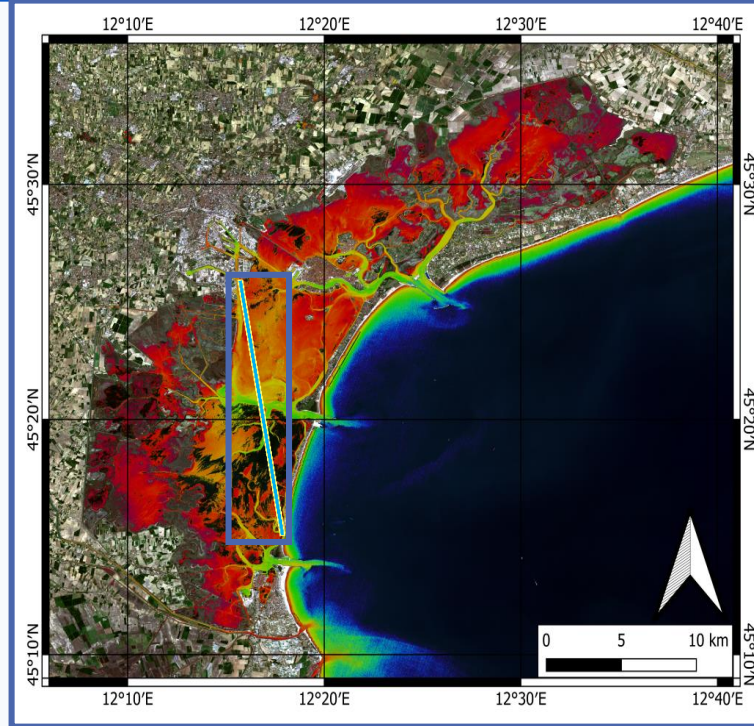
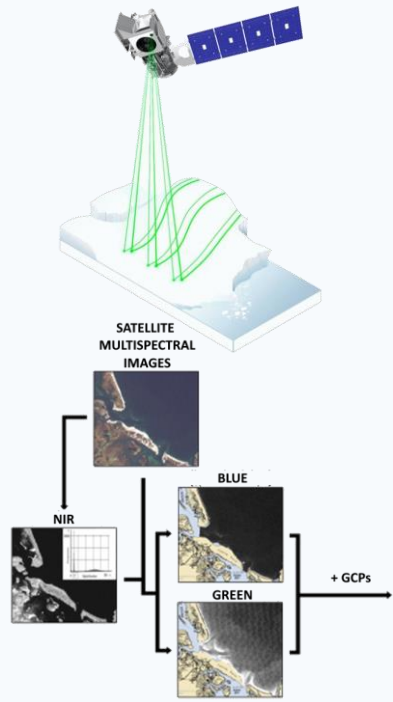


Mean sea level

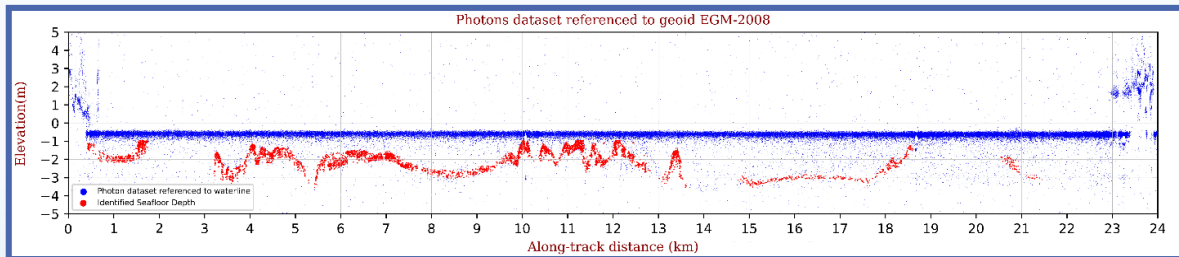


Extreme events

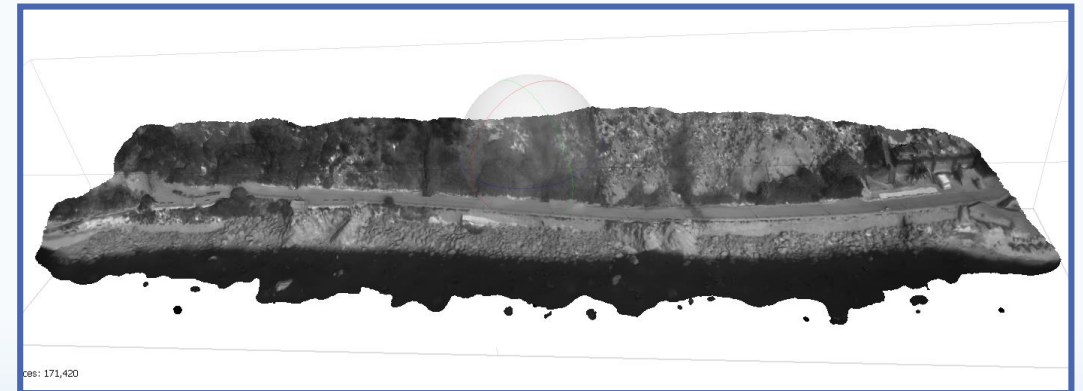
Satellite Derived Bathymetry & Photogrammetry



An example video of a survey (left) and 3D model (right)



SDB using satellite multispectral images and ICESat-2 LiDAR data.



Surveys in the thermal infrared band for emerged rocks check



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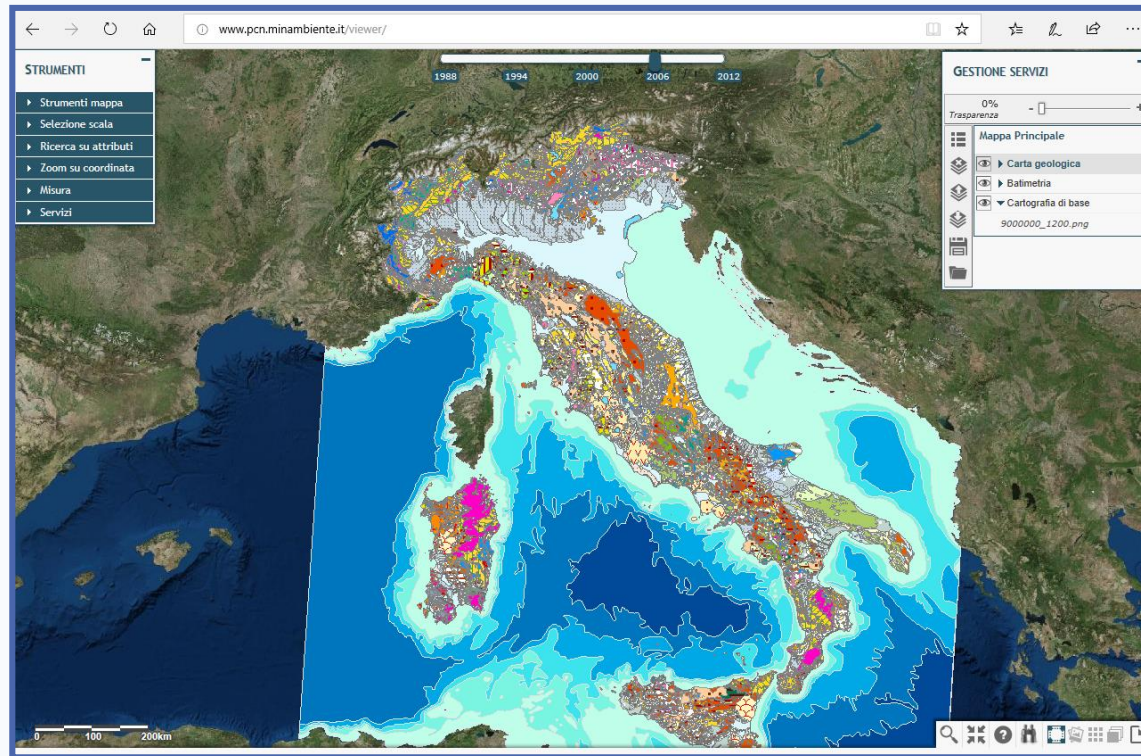
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Other activities/ MSDI

Italian *National SDI*



- Operated by the Ministry of the Environment and Land and Sea Protection.
- IIM is developing a new project for the creation of an independent MSDI.

<http://www.pcn.minambiente.it/mattm/en/>



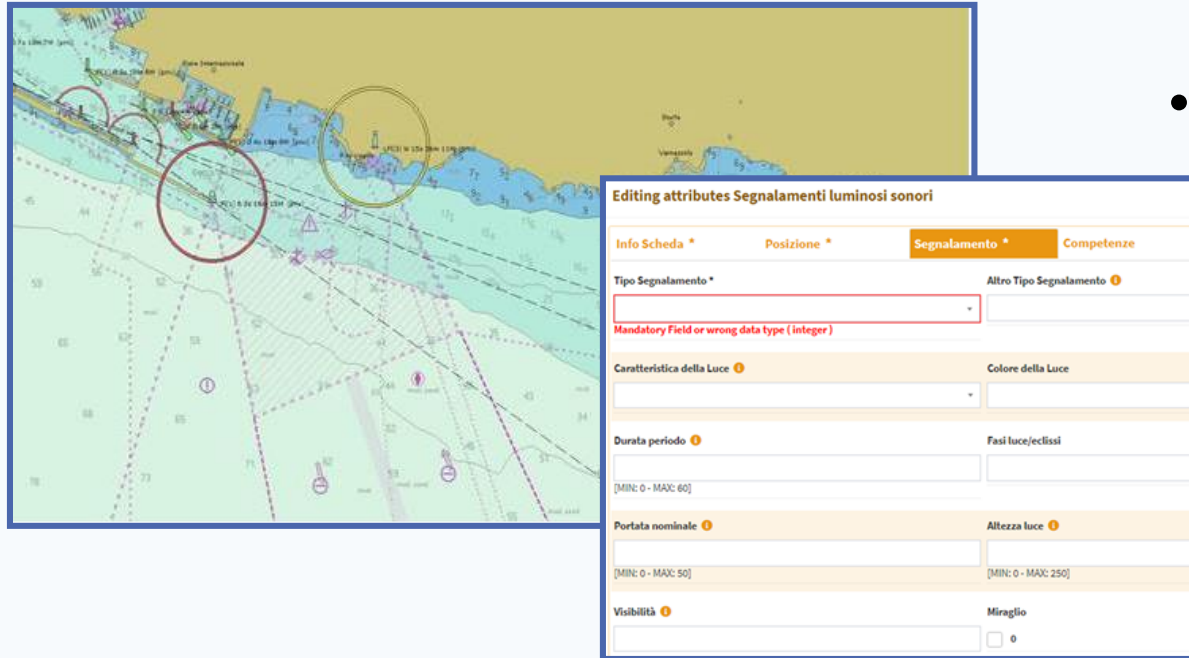
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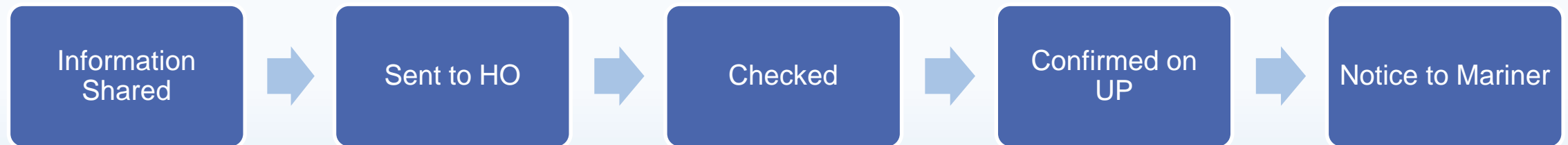
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Other activities/Project UP



- UP is a project that has the final goal of providing information and implementing communication between an Hydrographic Office (HO) -or an other maritime authority- and all “actors” that operate in a determinate area.



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Thank you for your attention



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