



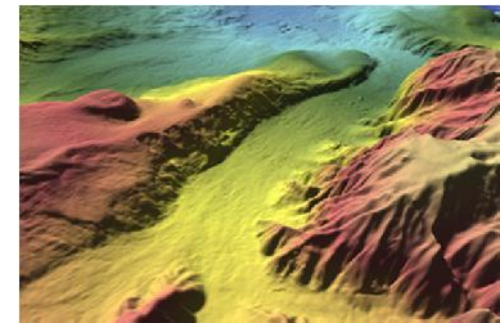
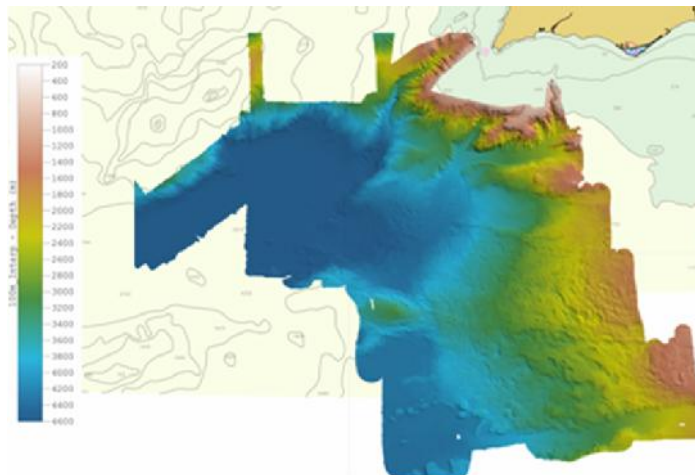
- Surveys
- Cartographic production
- Nautical Publications
- Safety of Navigation
- Capacity Building/Cooperation
- Education & Training

2 Oceanic hydrographic ships



Multibeam systems:

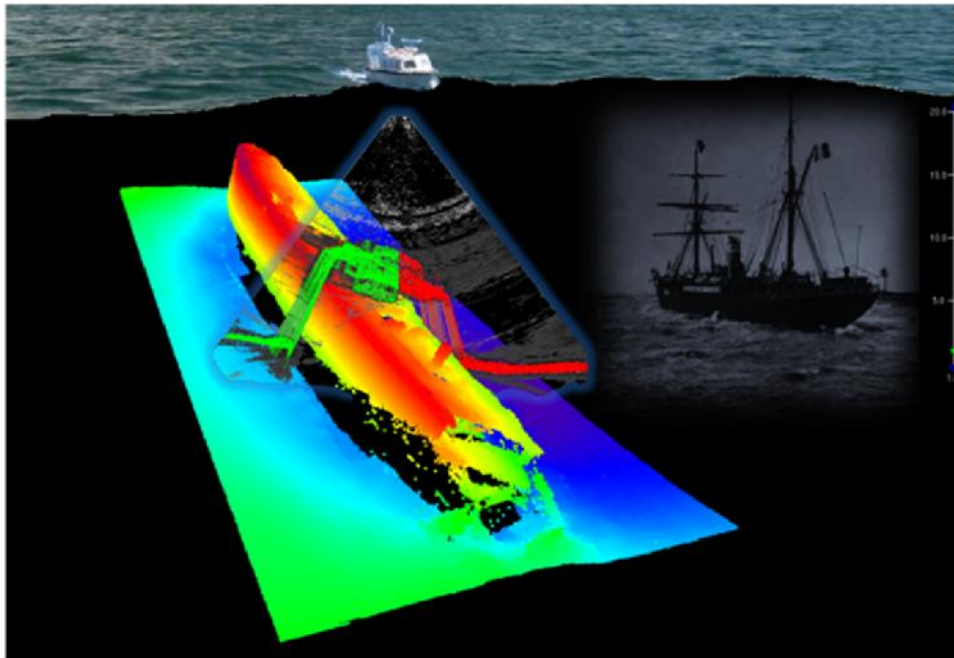
- Deep waters (KONGSBERG EM 120/122)
 - 2 Systems – (depths 50 – 11,000 m)
- Medium depths (KONGSBERG EM 710)
 - 1 System – (depths 3 – 2,000 m)



2 Coastal hydrographic ships and several survey launches

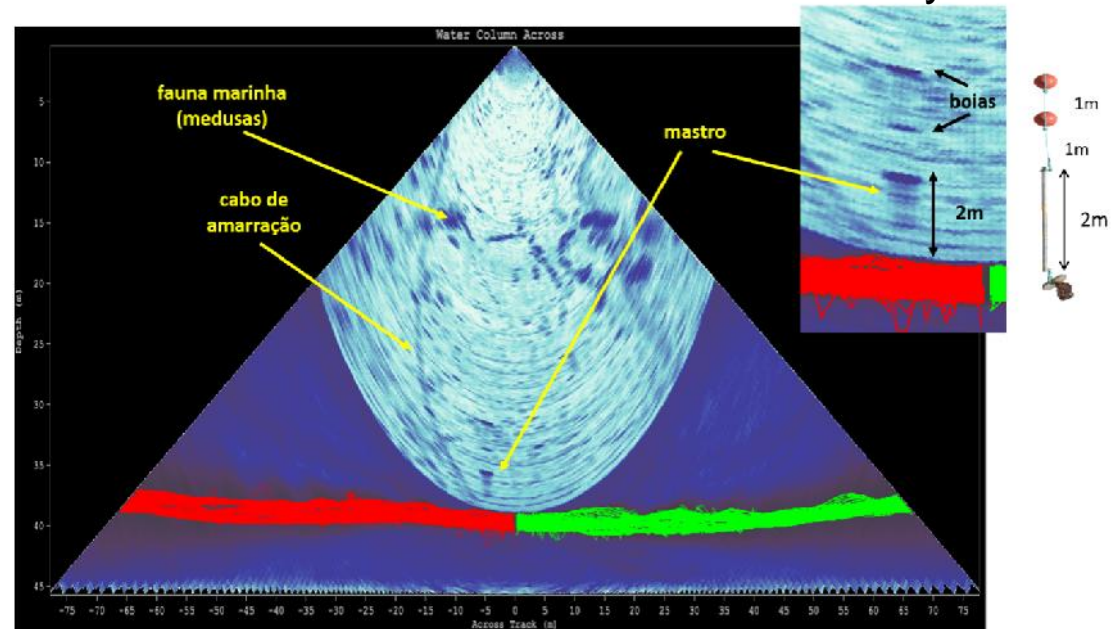


- Shallow waters
 - 2 multibeam systems (KONGSBERG EM 3002)
 - 1 multibeam system (KONGSBERG EM 2040C)
 - Bathymetric sonar (KONGSBERG GeoSwath 500 Plus)



Water Column Acoustic Reflectivity

Multi Vessel Profiler



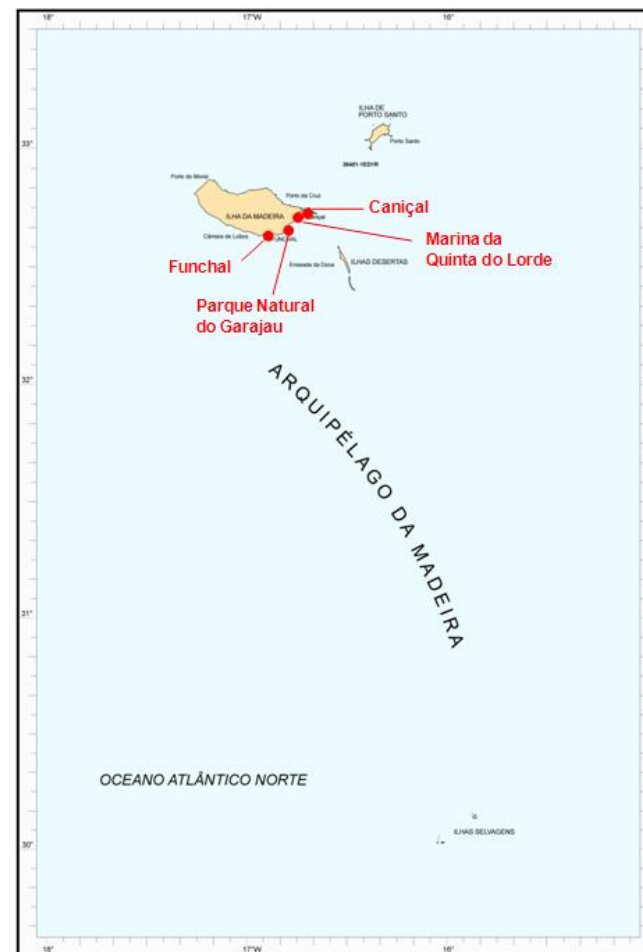
CARIS

Bathy DataBASE

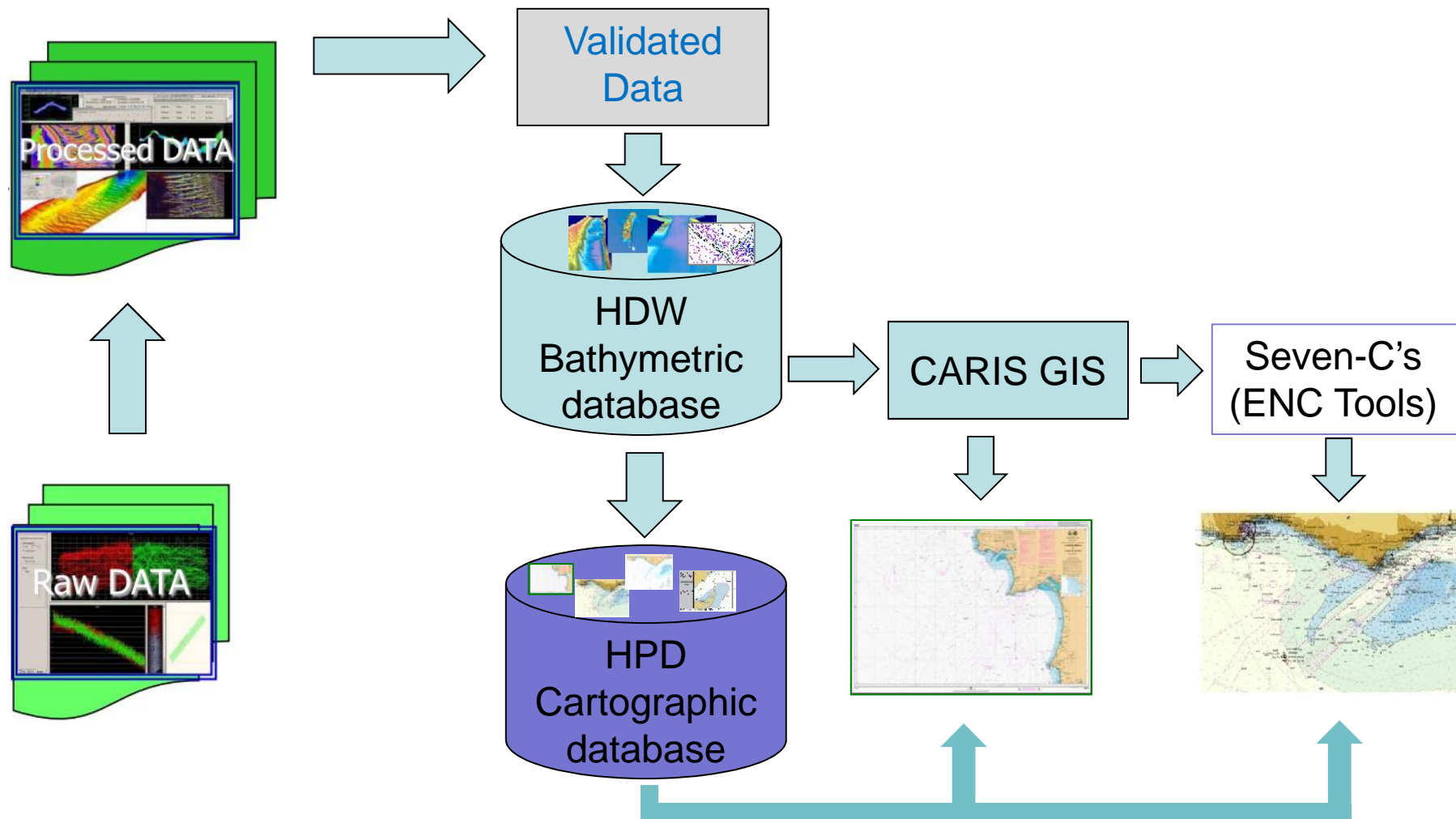
Bathymetric Data Management for the Future

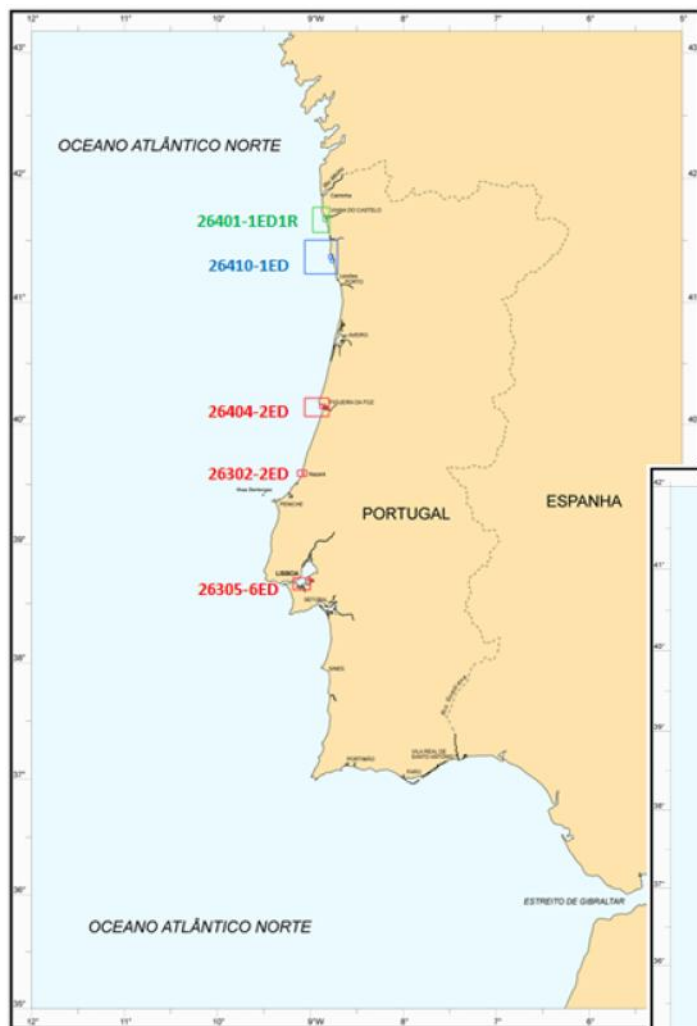


17 Hydrographic surveys in harbours and approaches.



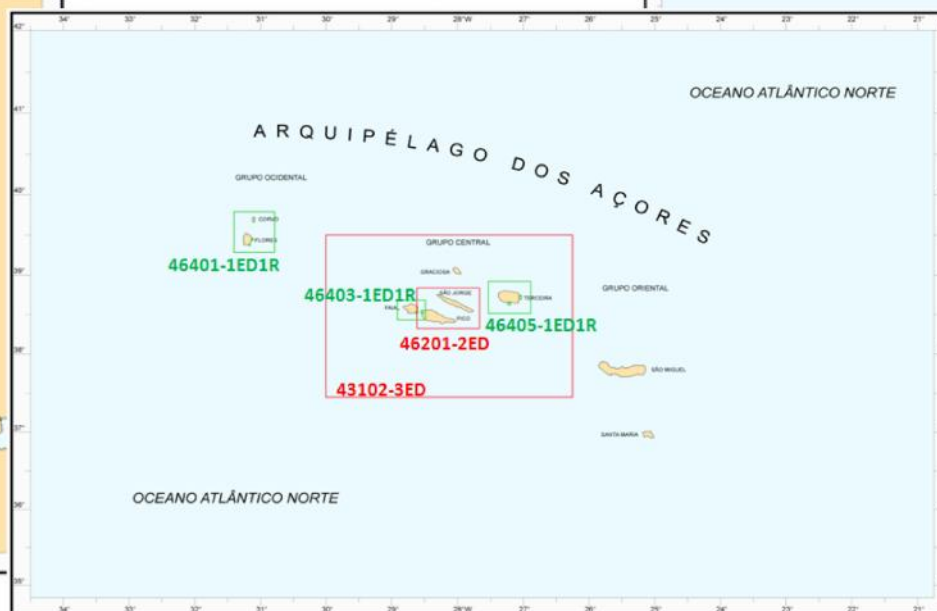
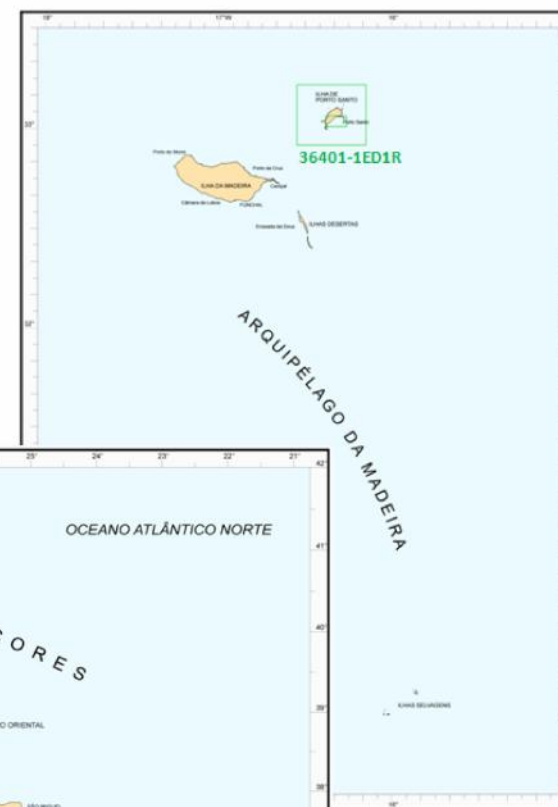
Conhecer o mar para que todos o possam usar





NC's:

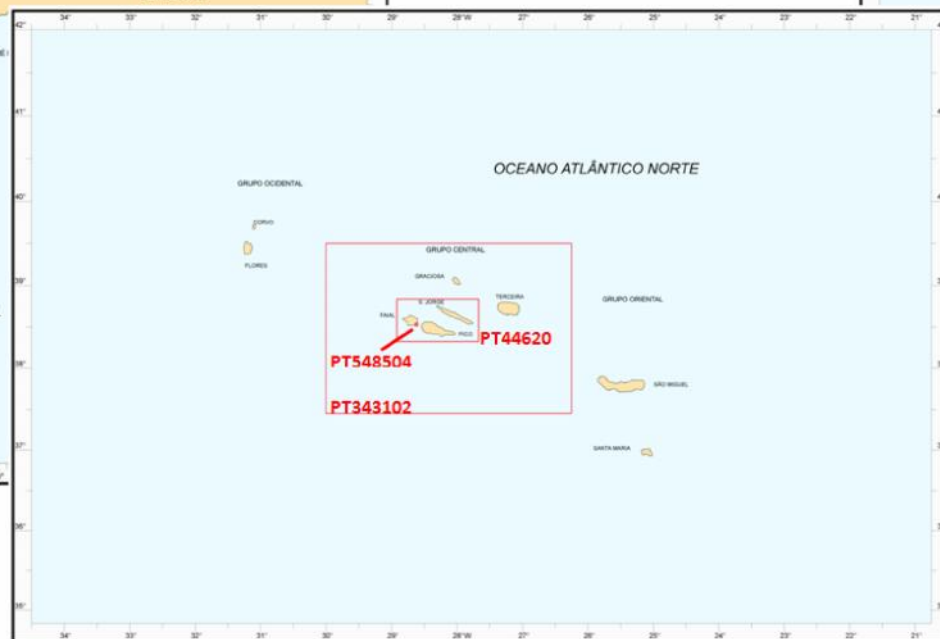
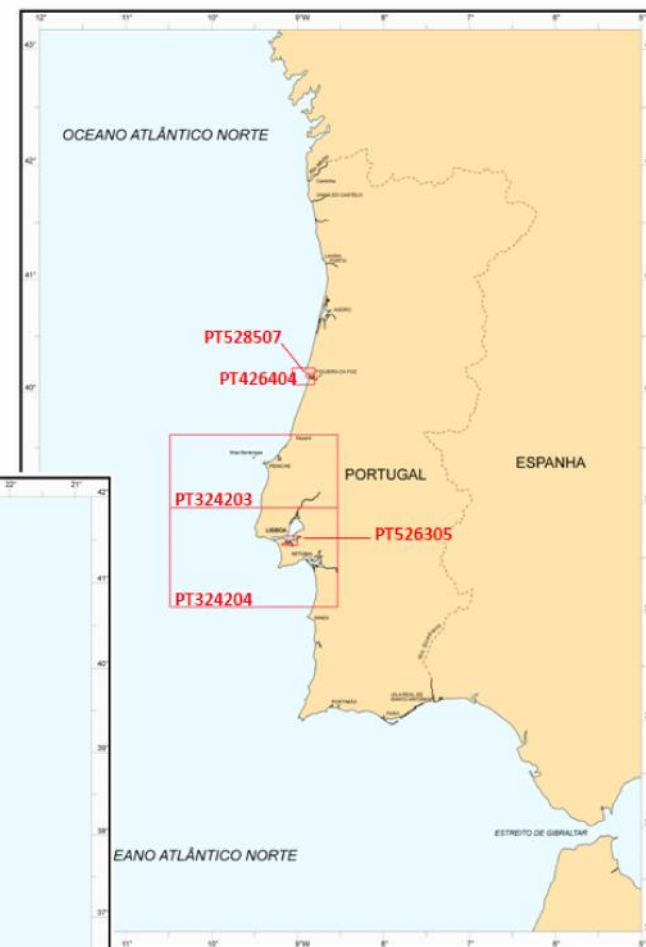
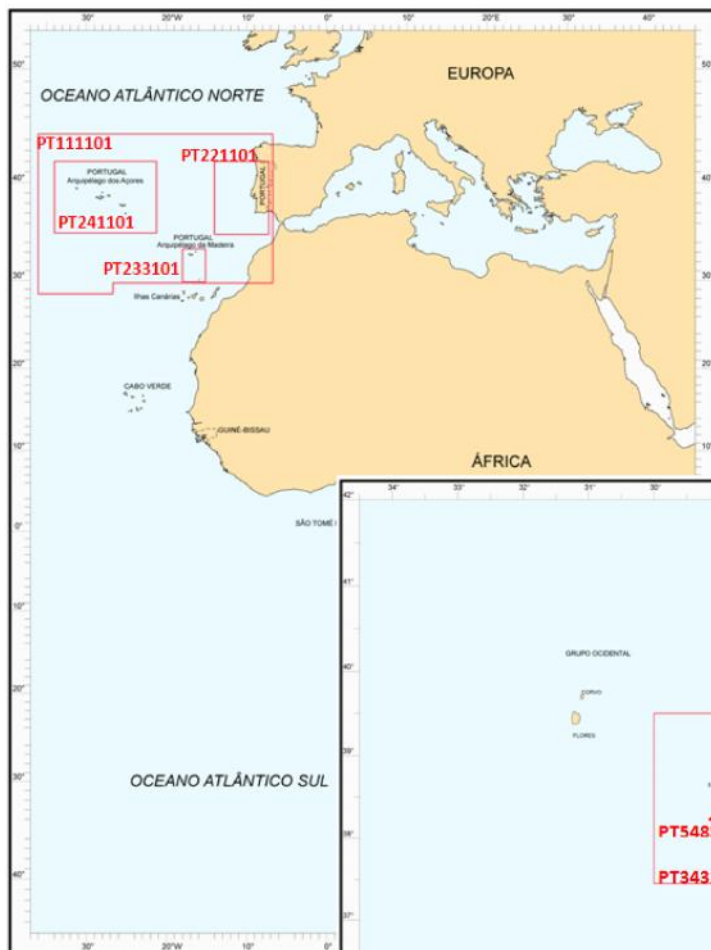
- 1 new chart;
- 5 new editions;
- 5 revised reprints.



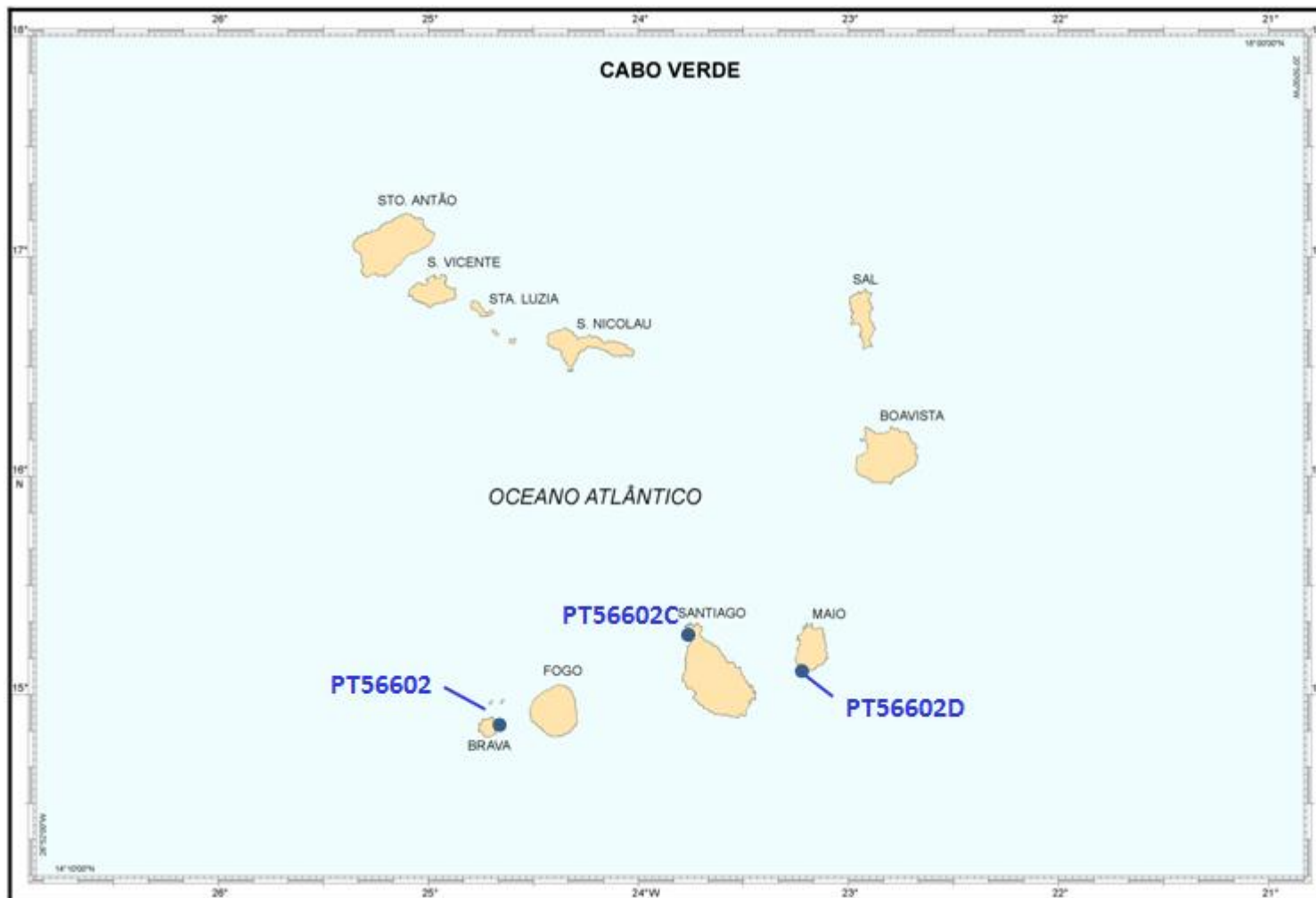


All paper charts of the Portuguese folio are on PoD.

13 new editions

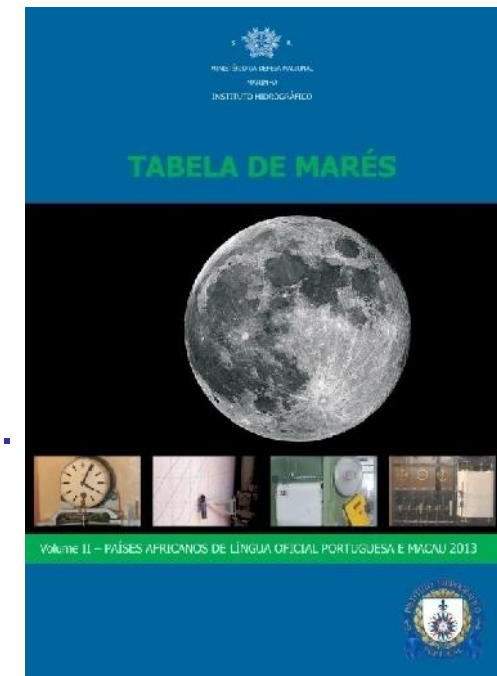


3 new ENC's

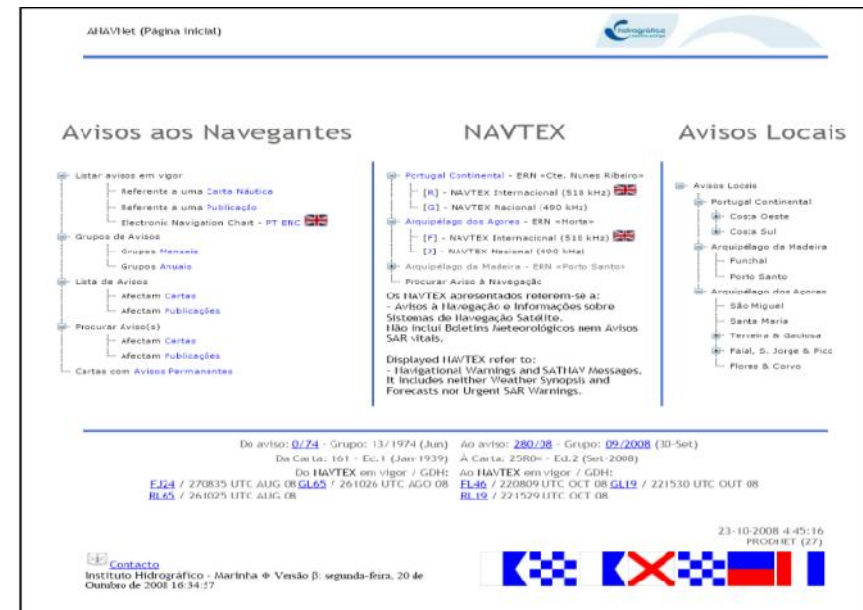
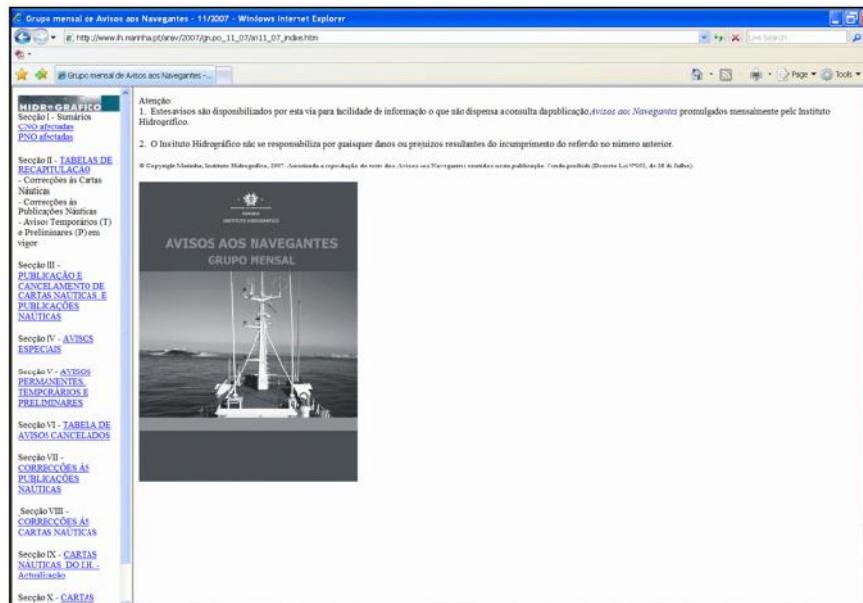


- Annual Group of Notices to Mariners (2013);
- Annual Group of Notices to Mariners (2014);
- List of Lights, Buoys, Beacons and Fog Signals – Portugal Volume I - 10th edition (2013);
- List of RadioBeacons and Services – Volume I – 6nd edition (2013);
- Maritime Buoyage System and other Aids to Navigation – 3rd edition (2013);
- Nautical Communications Table – 1st edition (2013);
- Maritime Buoyage System Table – 1st edition (2013);

- Tide Tables (Cape Verde, Guinea-Bissau, Sao Tome and Principe, Angola and Mozambique main harbours).



- NAVTEX broadcast English/Portuguese (3 stations – Continental Portugal, Azores and Madeira archipelagos)
- Notices to Mariners available on IHPT website in PDF
- ANAVnet provides NtM publications or single NtM affecting specific documents and NAVTEX navigational warnings



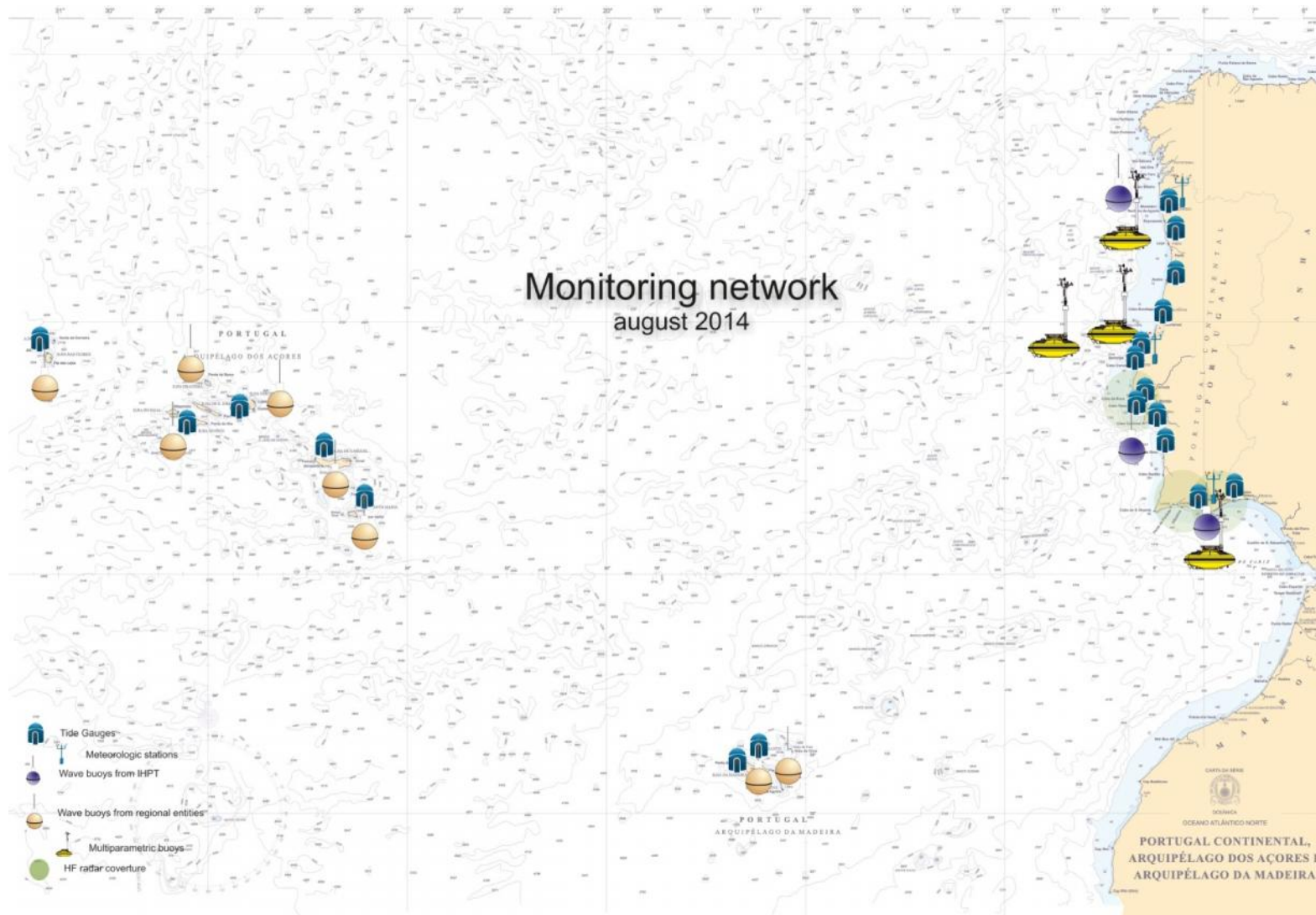
- IHPT produced three ENC's from Cape Verde.
- Hydrographic surveys and new editions of the Nautical Charts and ENC's of the following harbours:
 - Porto de Palmeira – Ilha do Sal;
 - Porto de Porto Novo – Santo Antão;
 - Porto de Vale de Cavaleiros – Ilha do Fogo;
 - Porto da Furna – Ilha Brava.

IHPT and IHM (Spain) have a collaboration project.

Two joint hydrographic surveys:

- Guadiana River - small survey vessels;
- Lisbon Canyon - with 3 hydrographic ships.





Previsões disponíveis



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Wave forecast
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Wave forecast for sailing
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Wave & surf forecast for Portugal and Angola
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na "arte-xávega"
Wave forecast for arte-xávega boats
[+ Ver de Espinho à Praia da Vieira](#)
[+ Ver da Costa de Caparica ao Espichel](#)



nos portos e aproximações
Wave forecast at harbour entrance
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nas praias
Wave forecast for the beach
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School of Hydrography and Oceanography

Provides Specialization Courses in Hydrography (FIG/IHO/ICA Category A and B) taught in Portuguese.

2012/2013 – Cat. B - 3 petty officers and 3 civilians.

2013/2014 – Cat. A – 5 officers and 3 civilians, one Spanish.

2014/2015 (about to start) - Cat. B - 3 petty officers and 1 civilian. IHPT also expected 6 students from Angola and 2 from Morocco.



Since 1979

	Portugal
Militaries	120
Civilians	27
Subtotal:	147

Mozambique	24
Angola	19
Guinea-Bissau	7
Tunisia	4
S. Tome and Principe	4
Cape Verde	3
Morocco	2
Macao (China)	2
Spain	2
Subtotal:	67
TOTAL	214



hidrográfico

marinha • portugal