

Regional Awareness Seminar Working with NAVAREA II and your Primary Charting Authority

26 and 27 September 2022

Working with your Primary Chart Authority (PCA) INTernational Cartography Portugal



Agenda

International Hydrographic Organization

Regulations and Standards

Nautical Charts versus PCA Role

Examples



• Tasks:

•

- Assist in meeting SOLAS obligations for hydrographic services
- Provide hydrographic surveying services
- Provide charting services
- Provide technical assistance and advice
- Provide capacity building

- **Challenges:**
- S-101 ENCs
- Future of Paper Charts



Regulations and Standards

SOLAS Chapter V (Segurança da Navegação)

Regulation 2

"Nautical chart" or "nautical publication" ... that is **issued officially** by or on the **authority of a Government, authorized Hydrographic Office** or **other relevant government institution** and is designed to meet the requirements of marine navigation.

Regulations 9 and 4

... require each coastal State to ensure that hydrographic and Maritime Safety Information (MSI) services are provided ... IHO - Publication M-2 (The need for National Hydrographic Services)

OHI - Publication S-4 (Regulations for International (INT) Charts and Chart Specifications of the IHO)

OHI - Publication S-11 (Guidance for the Preparation and Maintenance of International (INT) Chart and ENC Schemes and Catalogue of International (INT) Charts)



IHO Publication S-4

Produtores (A-203)

... "Producers of medium- and large-scale **international charts** will normally be the hydrographic offices **with a national responsibility** for the waters concerned" ...

... "Where an international chart is desired which will cover waters of a **nation which is not a member** of the IHO, the **producer nation** will be agreed by the IHO Regional body concerned with International charts. It is not necessary to seek the approval of the non-member nation but consultation on other aspects of charting its waters is recommended." ...

Avisos aos Navegantes (B-611)

"... In certain circumstances, **another hydrographic office** may **act as** the **Primary Charting Authority**, for example where:

• there is **no** national hydrographic office; or ..."

Regulations and Standards

IHO Publication S-11

Allocation of Producers (3.11)

... For most medium- and large-scale **INT charts**, the **Producer Nation will be the IHO Member State** with responsibility for charting the waters covered by these charts. ... Nations may collaborate in the production, the resulting chart carrying both nations' seals (crests). ... Where a chart has been included in the INT scheme, but the national hydrographic office is unable to effect its production within an acceptable timescale, its production may be undertaken, with the agreement of the national hydrographic office concerned, by a potential Printer Nation.

••••

https://iho.int/en/miscellaneous-publications https://iho.int/en/standards-and-specifications

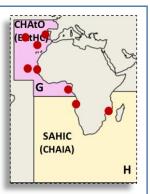


Primary Chart Authority (PCA) NAUTICAL CARTOGRAPHY

International Hydrographic Organization

- The term PCA refers (in practice), to the role of an Nation's "Hydrographic Service", or Charting Authority can play/fulfil for another Nation, which does not publish its own charts.
- The needs of a Nation and what can be provided by a PCA are often formalized by Bilateral Arragments or other kind of Agreement.

Comunication

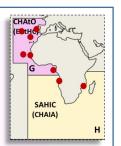




Primary Chart Authority (PCA) NAUTICAL CARTOGRAPHY

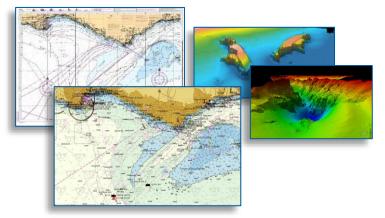
International Hydrographic Organization

EAtHC Portugal as PCA for:



Angola; Cabo Verde; Guiné-Bissau; São Tomé e Príncipe

- Assist in the fulfillment of SOLAS obligations
- Provide services/assistance relating to:
 Nautical cartography (CN, ENC)
 - Hydrographic surveys
- Provide technical assistance and advice



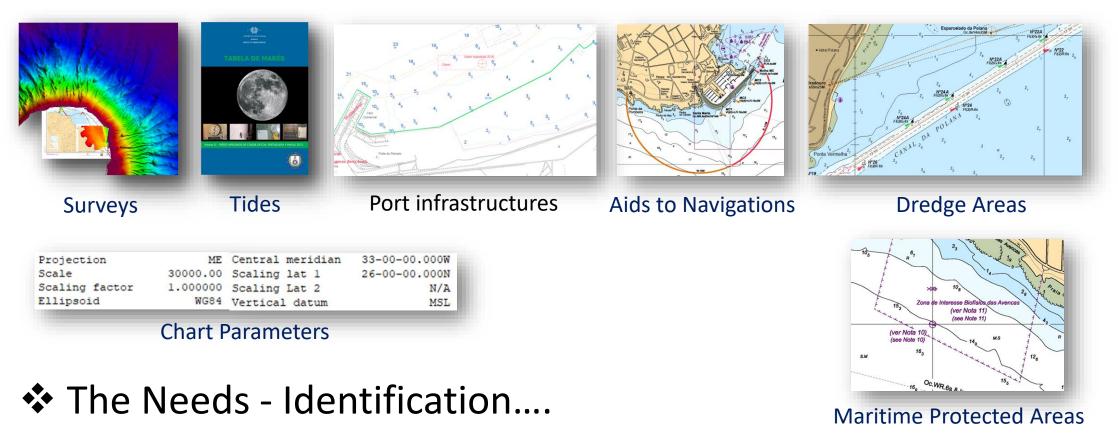
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Comunication



Primary Chart Authority (PCA) NAUTICAL CARTOGRAPHY

Information and Data Exchange; Metadata



A PCA can help a country to fulfill obligations, but it does not take away your responsibility.



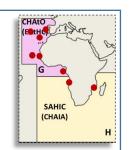
Primary Chart Authority (PCA) Nautical Cartography

International Hydrographic Organization

- Keep contacts updated
- Identify a POC and Keep relation with POC
- Meetings and Data Exchange with regularity
- Promote Arragements



Comunication





PORTUGAL (PCA)

International Hydrographic Organization

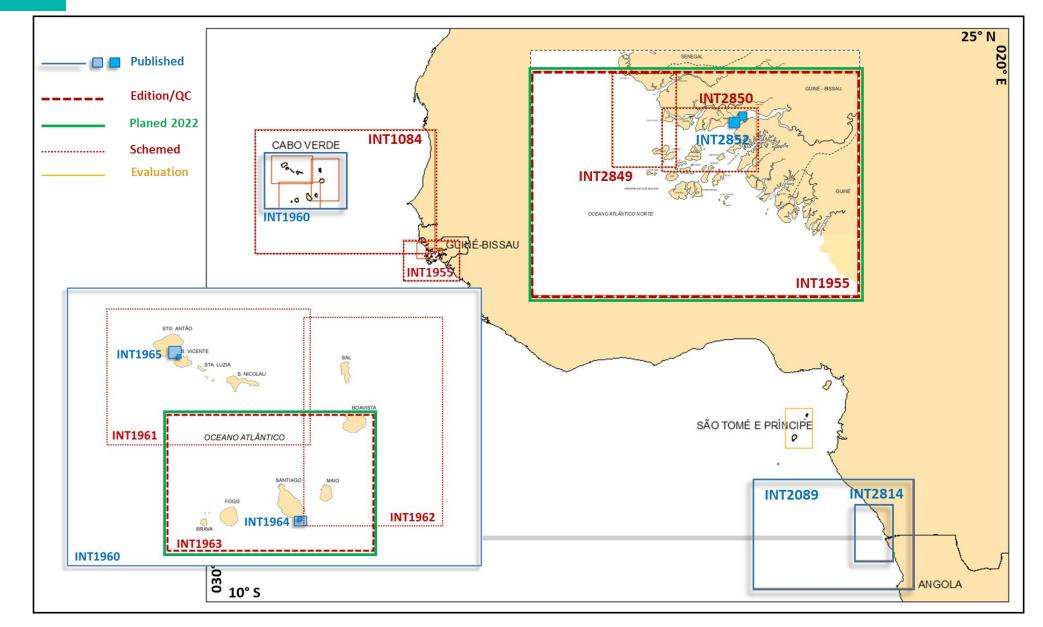
- Over the last years, taking advantage of a number of opportunities, considerable steps have been taken, regarding hydrographic surveys, the production of nautical cartography and supporting the development of capabilities in marine sciences and techniques, on the Portuguese-speaking African countries.
- This is currently one of the most relevant programs and of notable effort by the IHPT

To publish New nautical Charts (paper and ENCs), and thus increase the safety of navigation, is necessary to obtain up-to-date quality data

PORTUGAL (PCA)

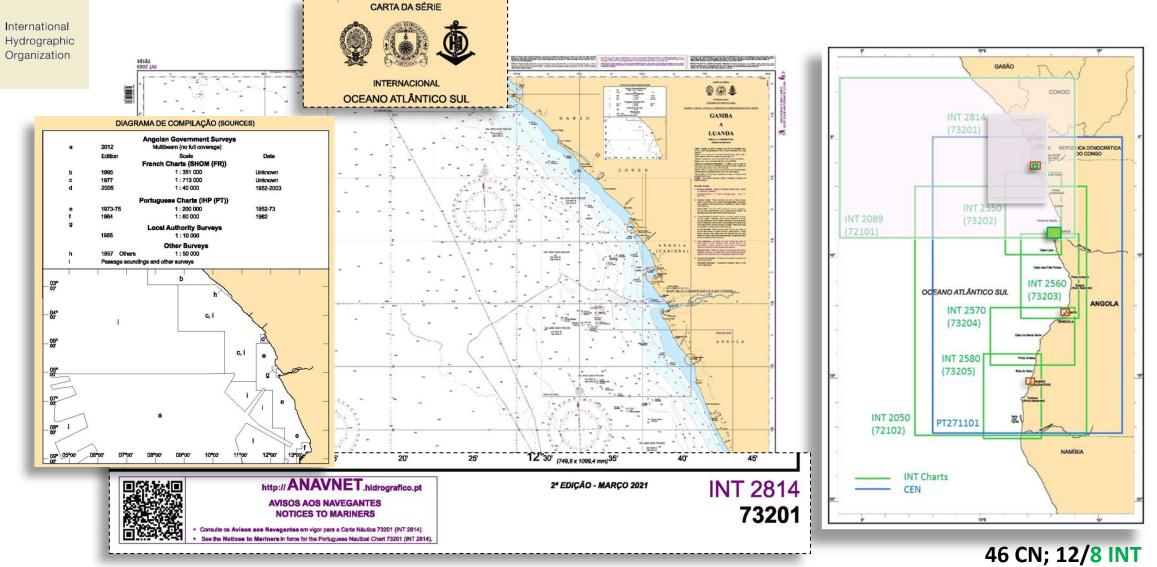








PORTUGAL (PCA) ANGOLA





PORTUGAL (PCA) ANGOLA

4 - Terminais no Mar - Apenas os navios que utilizam os fundeadou terminais nomeados devem entrar nas áreas restritas representad navios devem manter, pelo menos, um resguardo de 3 milhas náuti

10⁴00' 35' 40' / 45' 50' 55' 11⁴00' 05' 10' 65' 10

- Offshore Terminals Only vessels using the tanker berths at t should enter the restricted areas shown. All other vessels should clear of all offshore terminals.
- 5 Campos Petrolíferos e de Gás As plataformas de produção e incluindo amarração de navios tanque, navios cisternas e plataform geralmente assinaladas por luzes Mo(U), luzes de obstrução aére nevociro. É obrigatório, para toda a navegação não autorizada, m 500 metros destas estruturas.

- Oil and Gas Fields - Production platforms and associated struct moorings, storage tankers and platforms on pipelines, generally aircraft obstruction lights, and audible fog signals. Unauthorized ne within 500 meters of all such structures.

6 - Cabos e Condutas Submarinas - Os navegantes, na proximidad submarinas, são aconselhados a não fundear, arrastar, rocegar ou u ou artes de pesca que atinjam o fundo. As condutas submarin enterradas, pelo que a sua presença pode reduzir significativar indicada na carta. Por outro lado, as secções não assentes no prender as artes de pesca, tornando impossível a sua recuperação perigo as embarcações.

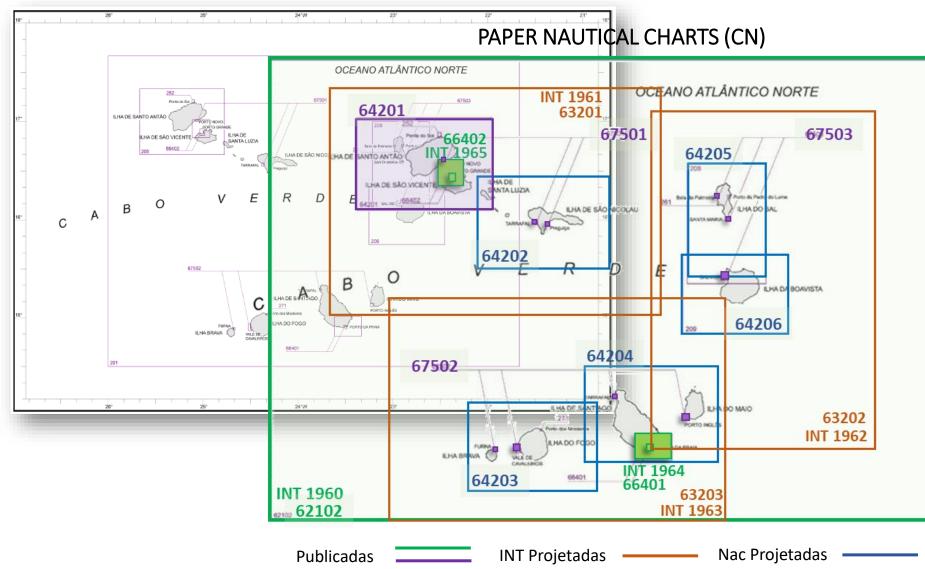
- Submarine Cables and Pipelines - Mariners are advised not to vicinity of submarine cables and pipelines. Pipelines are not alw presence may significantly reduce the charted depth. They m undulations and cause fishing gear to become irrecoverably snagg severe danger.

- Submarine Cables and Pipelines - Mariners are advised not to anchor or trawl in the vicinity of submarine cables and pipelines. Pipelines are not always buried and their presence may significantly reduce the charted depth. They may also span seabed undulations and cause fishing gear to become irrecoverably snagged, putting a vessel in severe danger.

- 7 Gasodutos Os navegantes podem ser processados legalmente por fundear ou arrastar perto de um gasoduto e em consequência disso danificá-lo. O gás de um gasoduto danificado pode causar incêndio ou perda de flutuabilidade do navio.
- Gas Pipelines Mariners risk prosecution if they anchor or trawl near a pipeline and so damage it. Gas from a damaged pipeline could cause fire or loss of a vessel's buoyancy.
- 8 Área de Exploração Dentro das áreas de exploração de petróleo e gás, navios à superficie, submersíveis e mergulhadores podem estar envolvidos na construção e manutenção de instalação. Recomenda-se vivamente a todas as embarcações que se mantenham fora dos limites representados na carta.
- Development Area Within oil and gas field development areas, surface vessels, submersibles and divers may be engaged in constructing and servicing installation. Other vessels are strongly advised to keep outside the charted limits.
- 9 Fronteiras Internacionais As fronteiras internacionais indicadas nesta carta são aproximadas.
- International Boundaries International boundaries shown on this chart are approximate.
- 10 Posições As posições desta carta não podem ser marcadas diretamente, por latitude e longitude, nas cartas 351, 352, 353, 332, 355. Deste modo, as posições devem ser transferidas por azimute e distância a objectos comuns cartografados.
 - **Positions** Positions from this chart cannot be marked directly, by latitude and longitude, on charts 351, 352, 353, 332 and 355. A bearing and distance from common charted objects should be used.

PORTUGAL (PCA) CABO VERDE

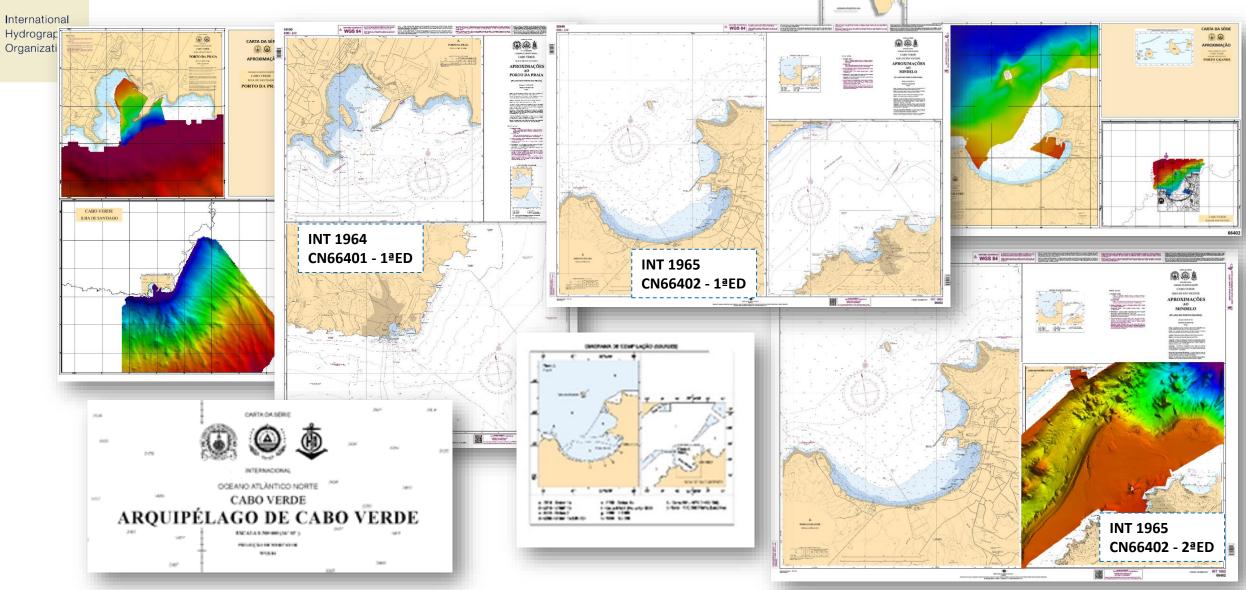
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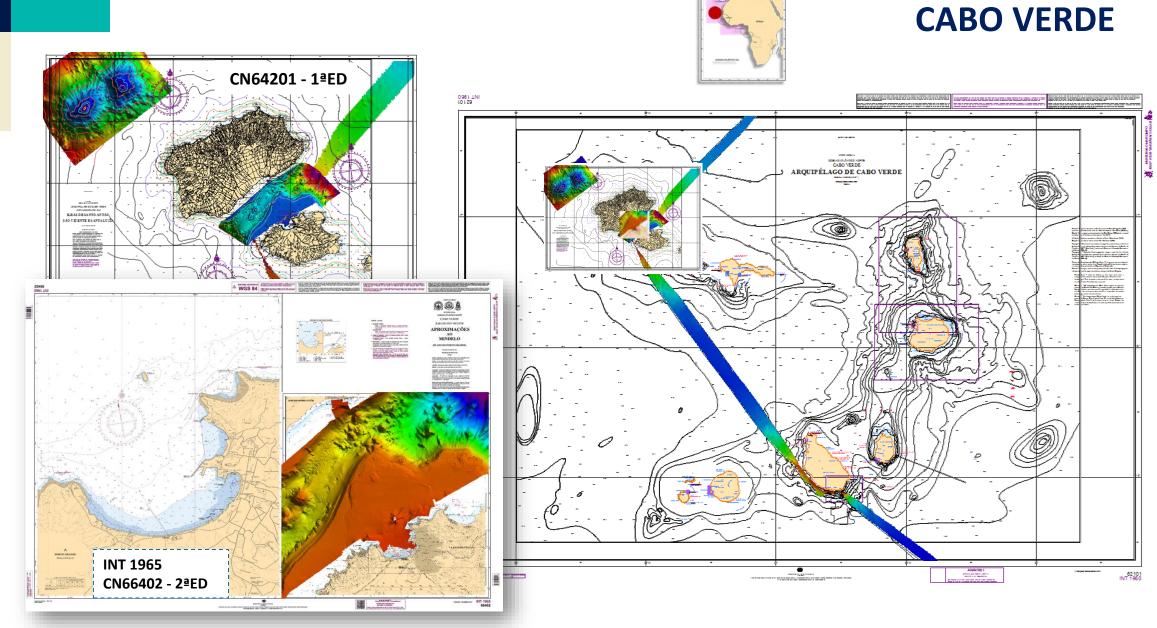
International Hydrographic Organization



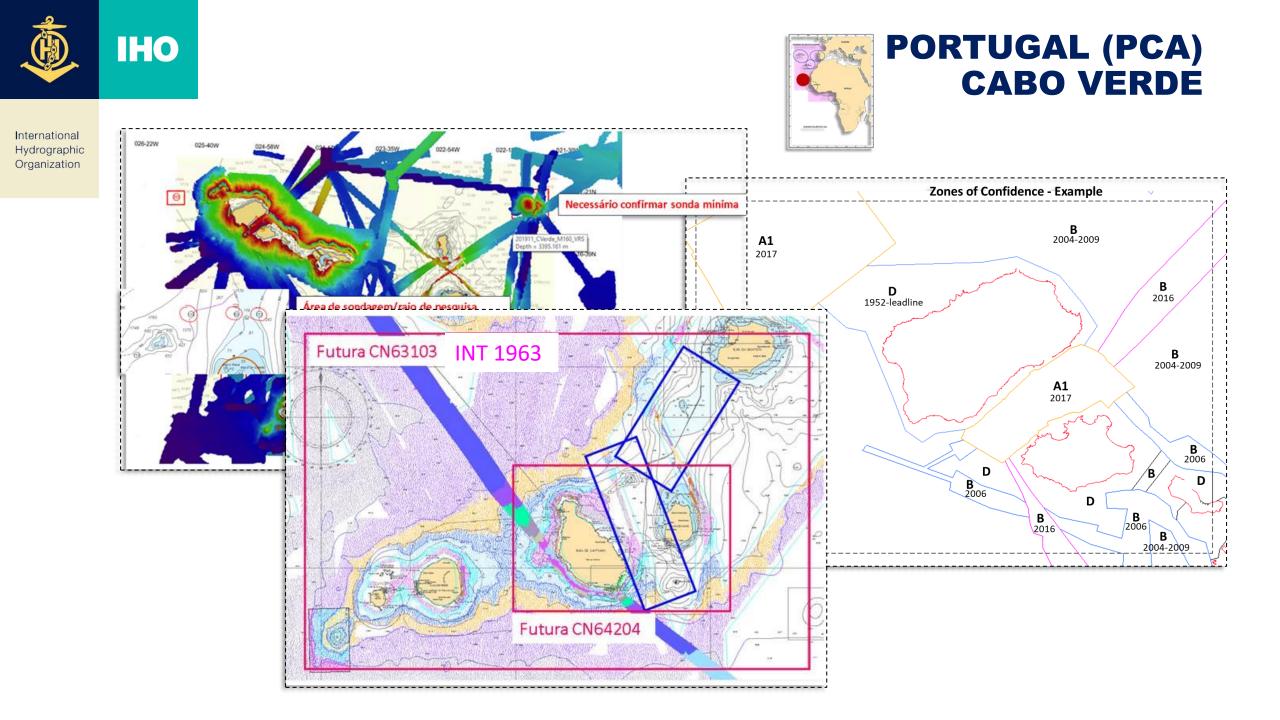








PORTUGAL (PCA)

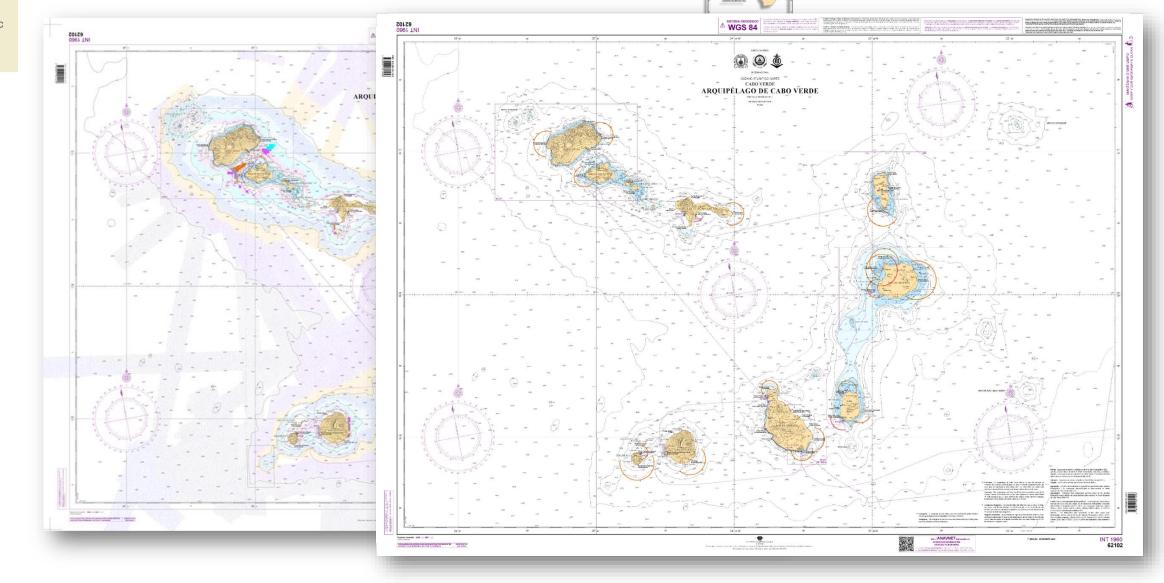




PORTUGAL (PCA) CABO VERDE

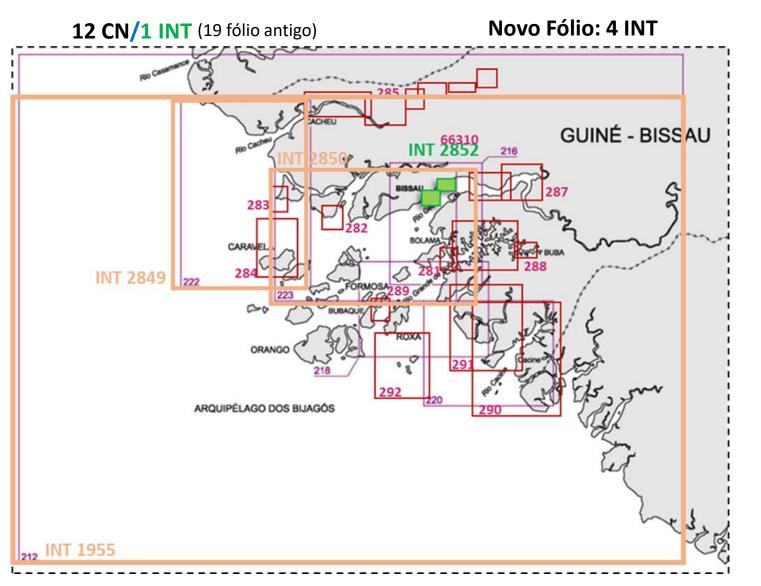
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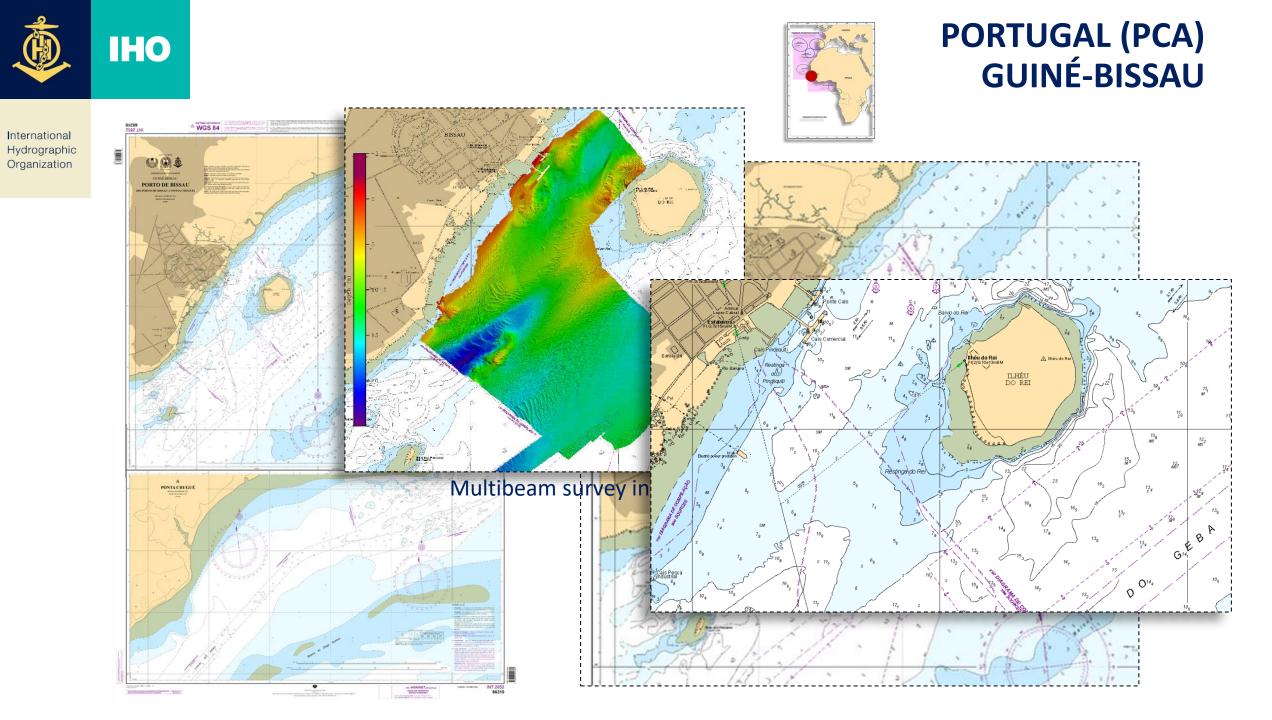
International Hydrographic Organization



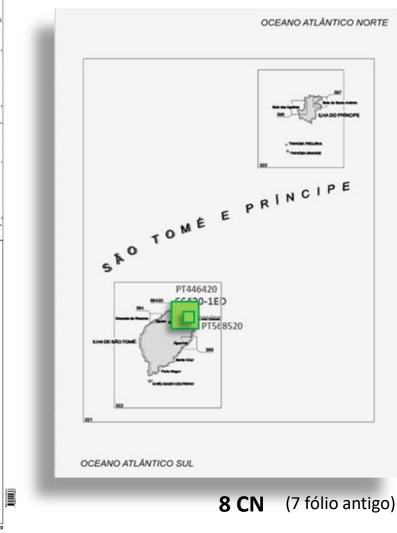


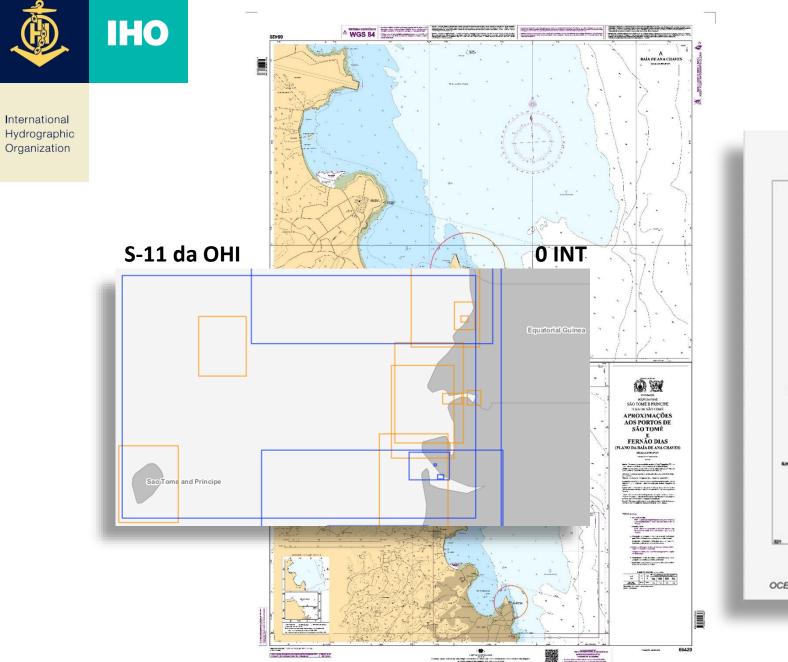
IHO





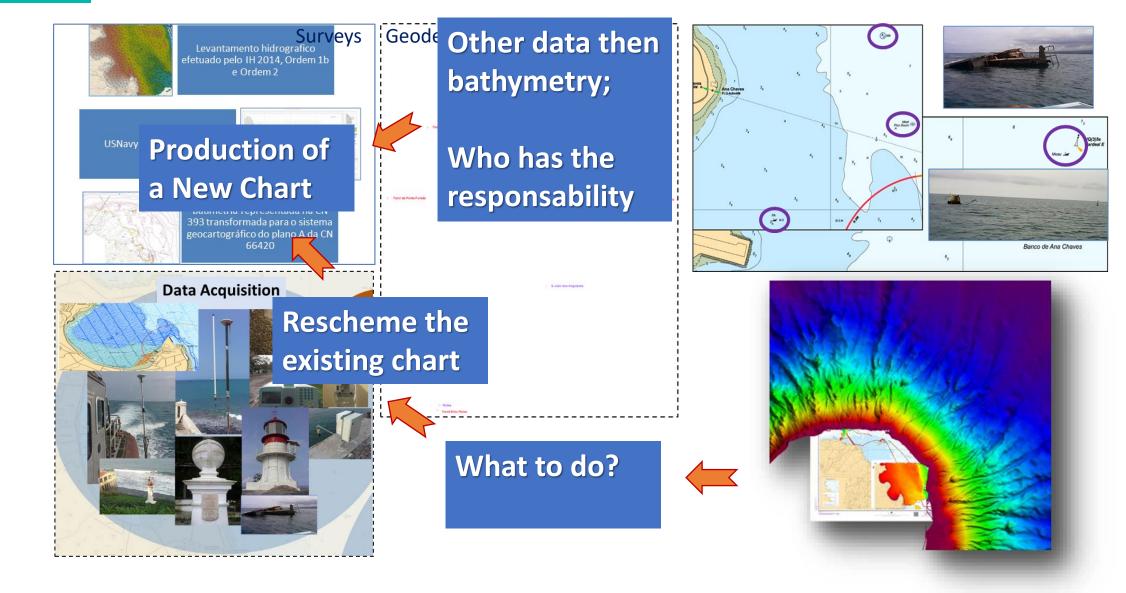








PORTUGAL (PCA) SÃO TOMÉ e PRINCIPE



International Hydrographic Organization



PORTUGAL (PCA) SÃO TOMÉ E PRÍNCIPE

International Hydrographic Organization Barge that tranships containers from merchant ships, anchored offshore, to the port, run achore and <u>dumped 18 containers</u> overboard some of the containers sank imedeately but others did not

17 containers sunk, 4 of them in known positions;1 of them partially emerged at low tide;2 of them were marked;13 of them are in an unknown position

Accident: June

Information: end of July





Time diference between the accident and the comunication;

PORTUGAL (PCA)

SÃO TOMÉ E PRÍNCIPE

- Entities with responsability/local coordination;
- Knoledge of the procedure

What do we know ??????

Issues

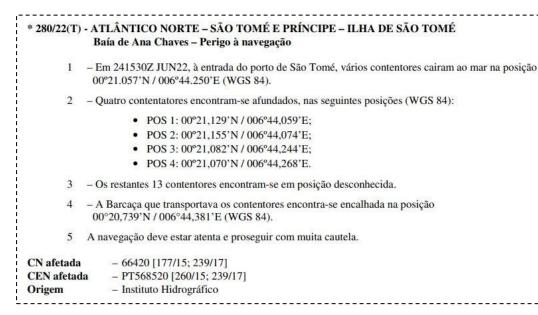
- That São Tomé e Príncipe authorities were, in the field, dealing with the problem;
- That nothing was done related to warnings;
- IHPT knows who can talk to, but not necessarily who is the local authority for this kind of issue;
- That IHPT is PCA;
- That France is the NAVAREA II Coordinator
- That Portugal has an implemented structure for NtM and Navigational Warnings

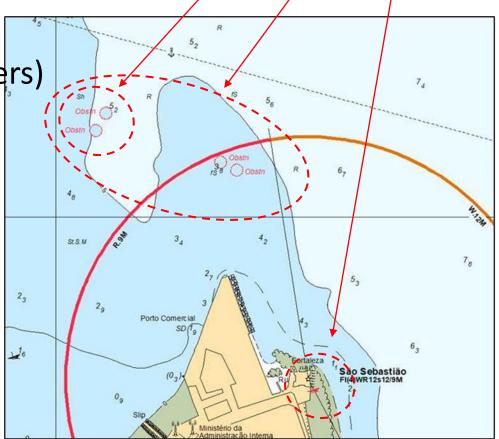


What we can/must do ????

PORTUGAL (PCA) SÃO TOMÉ E PRÍNCIPE

- IHPT asked for all the information that could be provided;
- Information Analysis;
- Send it to NAVAREA II Coordinator;
- Issue a Temporary NtM (Notices to Mariners) (waiting for more/better information)

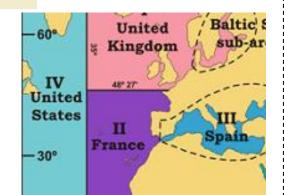


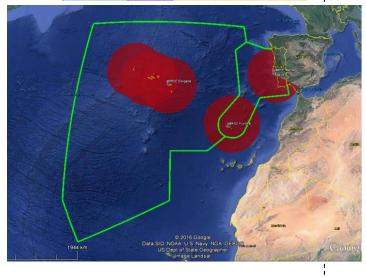


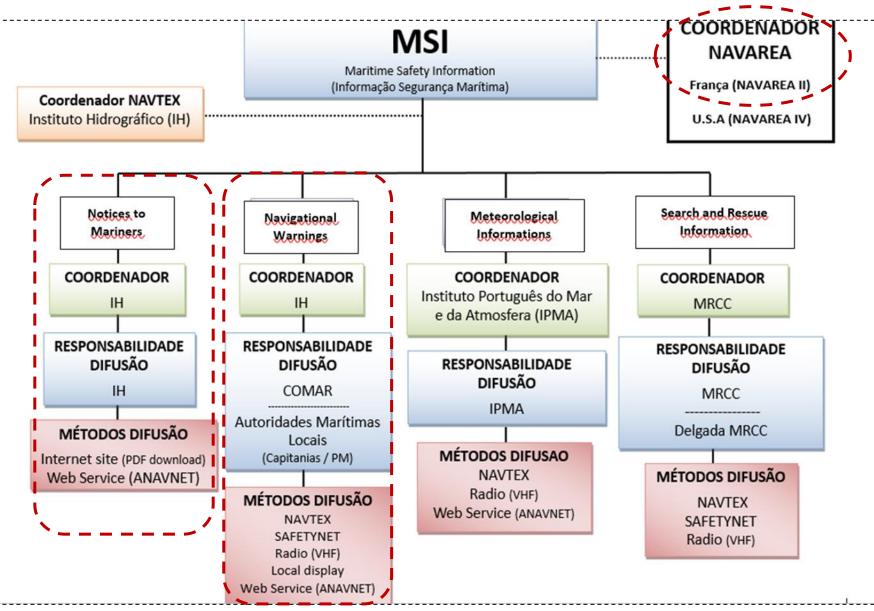


PORTUGAL - MSI

International Hydrographic Organization

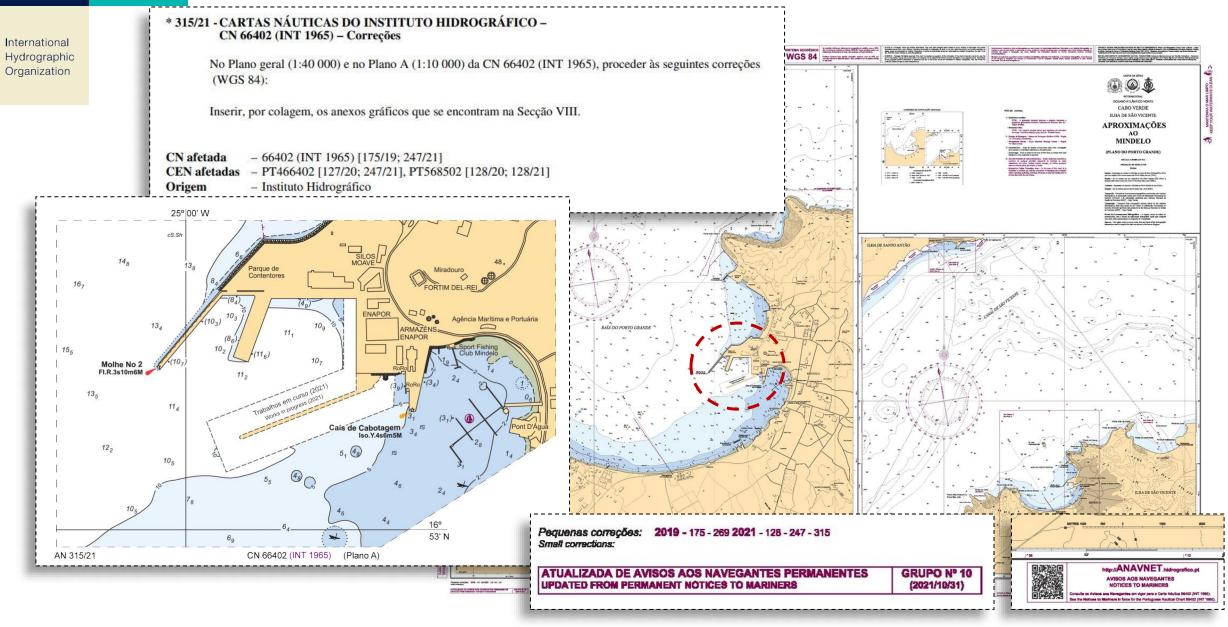








PORTUGAL (PCA) CABO VERDE





CHALLENGES AND CONCERNS PCA

International Hydrographic Organization

- Gaps in the current coverage scheme
- Future of paper Charts
- Scheme for worldwide coverage

≻ S-100

- S-57 ENC production/maintenance
- INT coverage maintenance
- T S-57 ENC to S-101 ENC Transition;
- S-101 ENC Coverage scheme;
- S-101 ENCs Production and publication;
- Coordination/cooperation between HOs;
- Primary Charting Authority (PCA) Role



Regional Awareness Seminar Working with NAVAREA II and your Primary Charting Authority

26 and 27 September 2022

Thank you for your atention

OBRIGADA

