

19th Meeting of the South West Pacific Hydrographic Commission

National Report by FRANCE



[SWPHC Member]



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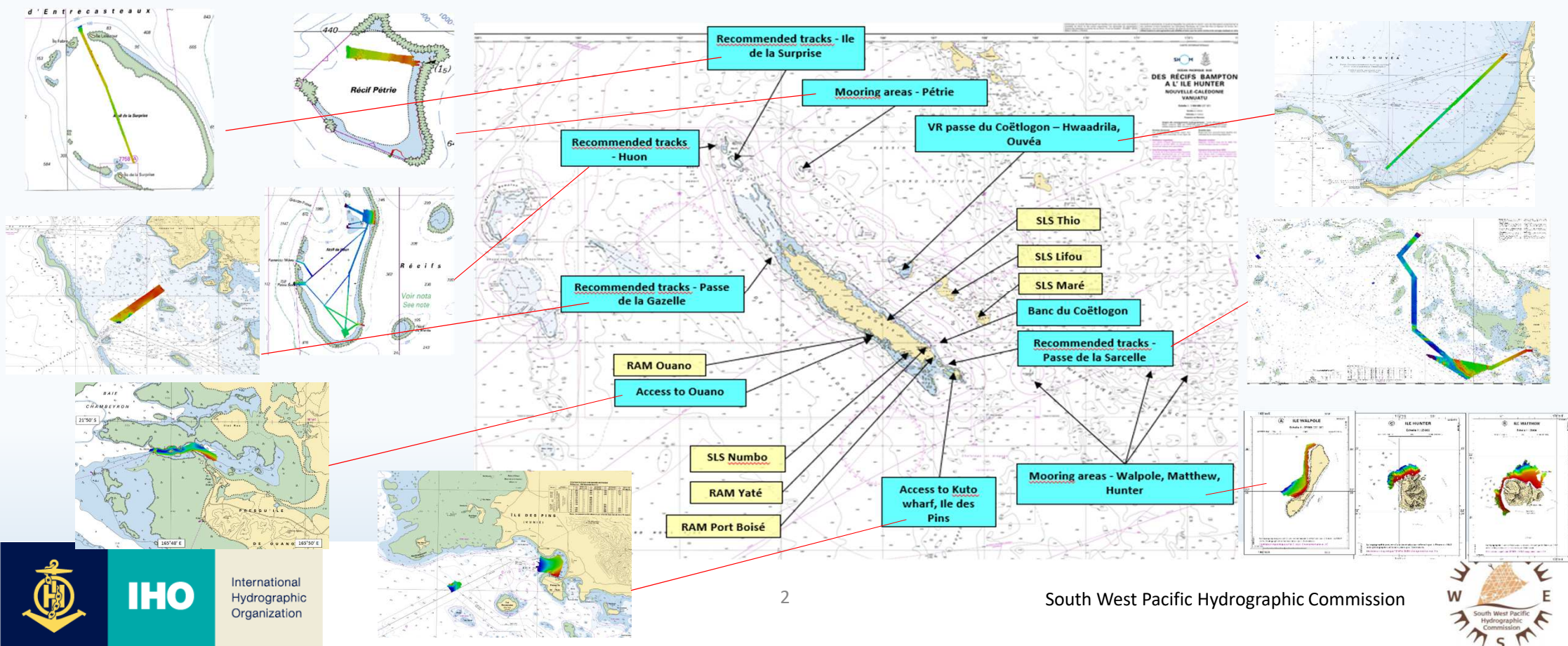
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South West Pacific Hydrographic Commission



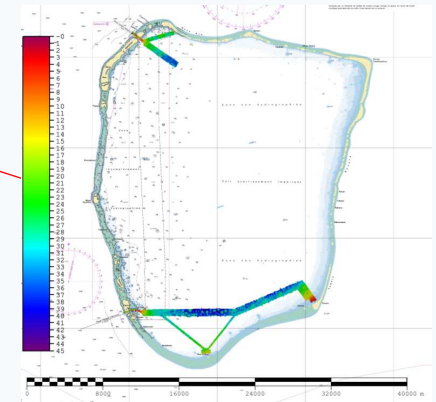
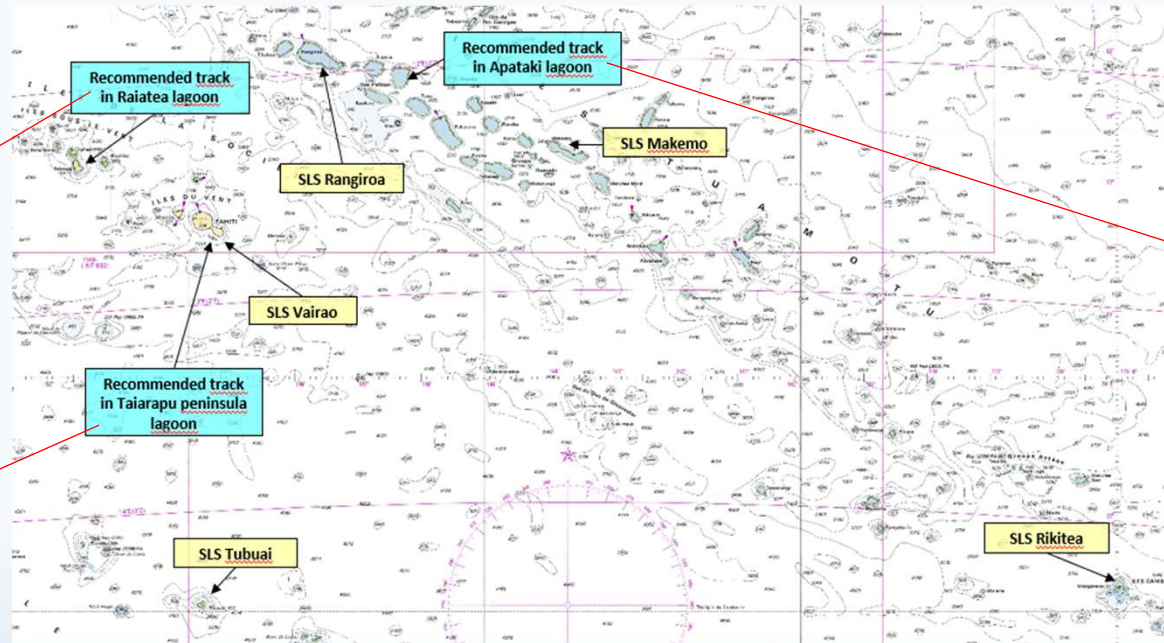
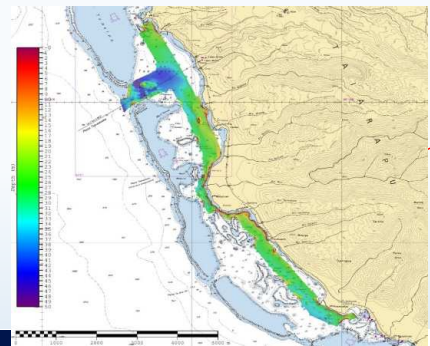
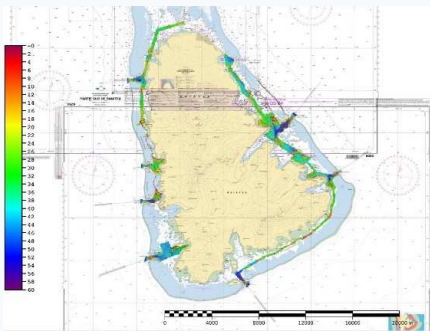
Main achievements during the year

- New-Caledonia : Several surveys of recommended tracks, accesses and passages have been performed all around New-Caledonia, mainly inside the lagoon



Main achievements during the year

- French Polynesia : Early in 2021, the Shom's hydrographic unit in Papeete was equipped with a new multi-beam echo sounder deployable on its motor launch and rigid inflatable boat



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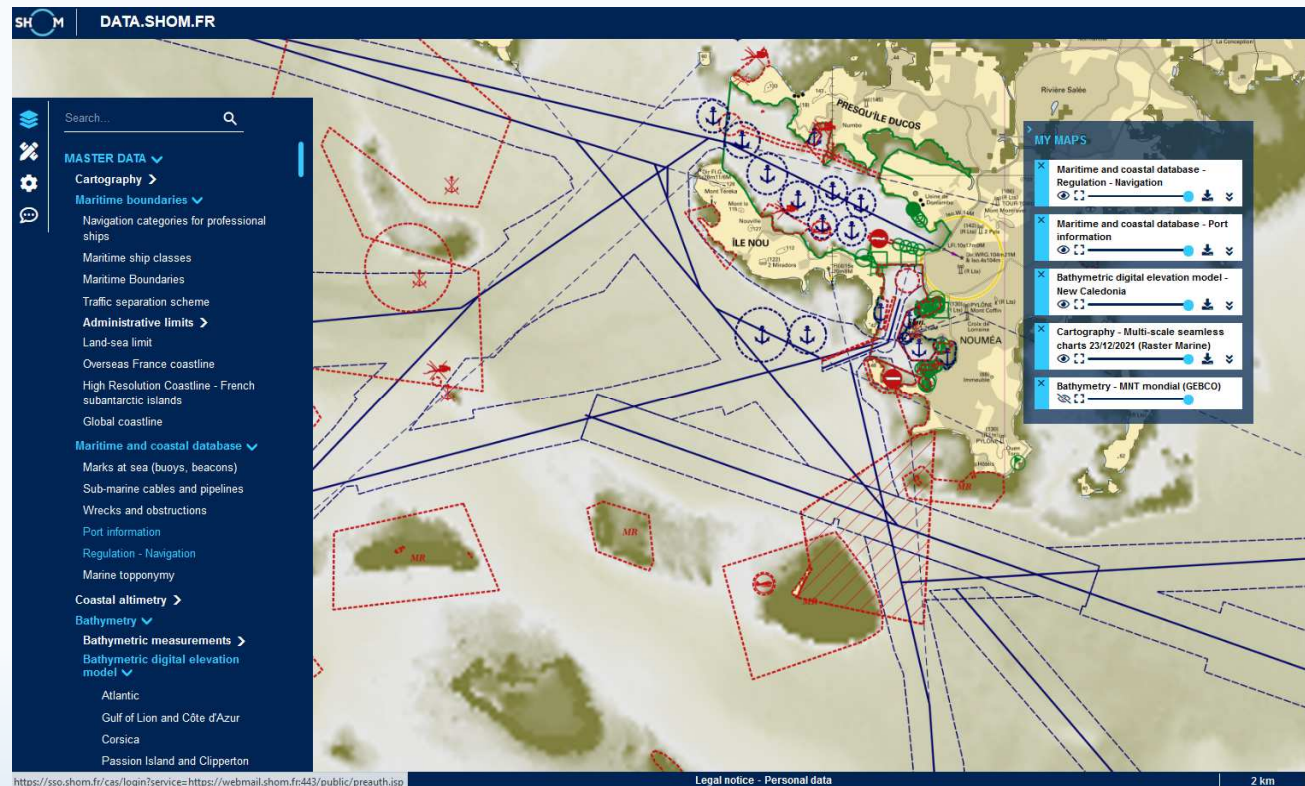


Main achievements during the year

- **MSDI – data.shom.fr : updated and new layers + new ergonomics**

Latest evolutions:

- Wrecks and obstructions (edition)
- Port information (new layer)
- Regulation – Navigation (new layer)
- Search and rescue areas (new layer)
- Bathymetric digital elevation model – New-Caledonia (new layer)
- Outer limits of territorial sea and EEZ off French Polynesia (new data)
- Worldwide sediments map (edition)
- New tools and services
(<https://services.data.shom.fr/support/fr>)
- New ergonomics of data.shom.fr portal
- Redesigned drawing tool



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Main achievements during the year

- **Future hydro-oceanographic capacities**

- > latest experiments

- September 2020 – 2 USV DriX (iXblue)
 - January 2021 – AUV Gavia (Teledyne)
 - May 2021 – USV Inspector (ECA)
 - June 2021 – AUV A18D (ECA)
 - August 2021 – 2 gliders Sea Explorer (Alseamar)
 - October 2021 – AUV HUGIN Superior (Kongsberg Maritime)



Experiment of USV DriX deployed from BHO Beautemps-Beaupré



Experiment of AUV HUGIN deployed from BHO Beautemps-Beaupré



Main Challenges

- **UKHO – Shom S-100 ECDIS collaboration (1/2)**
 - > **Project as a risk assessment on the Dual Fuel mode of ECDIS**

High level goals

- Develop S-101 understanding, from data production to ECDIS display
- Safety case to support IMO approval of the S-100 ECDIS systems
- Develop RENC capability and support industry on S-100 ECDIS
- Build a testing framework for similar S-100 ECDIS testbed project



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Main Challenges

• UKHO – Shom S-100 ECDIS collaboration (2/2)

> A long-term & 3-phase project

Phase 1 : Data production

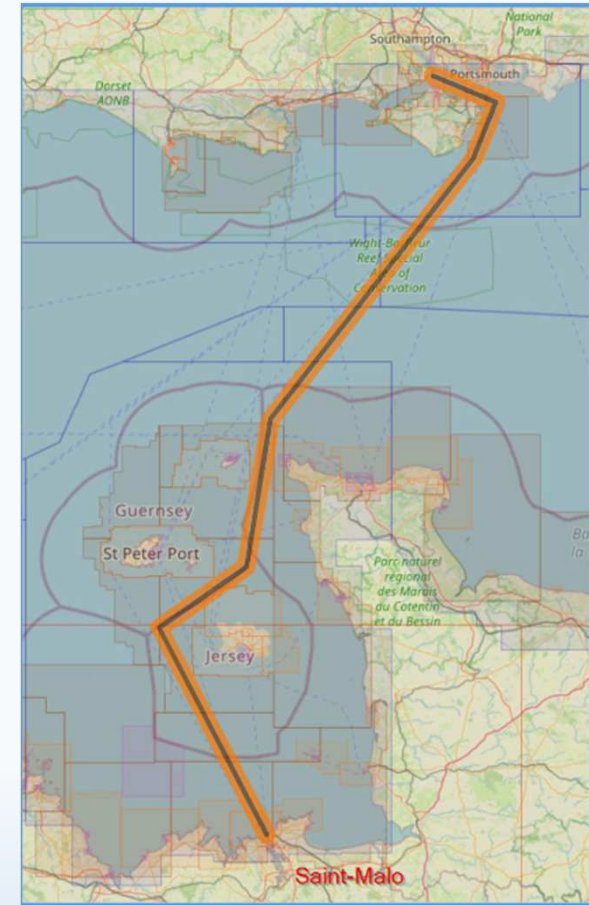
- S-57 to S-101 conversion
- ENC updating
- ENC scheming (paper chart vs gridding)

Phase 2 : Data distribution

- HO to RENC data delivery
- RENC validation
- Cybersecurity : encryption, signatures, licensing, compression

Phase 3 : Data display

- Sea trials



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Any other matters of interest

- The COVID-19 crisis has a severe impact on the global maritime and aerial freight in 2021. If the freight limitations are maintained, this will affect the availability of calibrated equipment used through Shom's overseas activities (sound velocity probes, tide gauges...) and might compromise the operational schedule.



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Thank you for your attention
Any question ?



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