

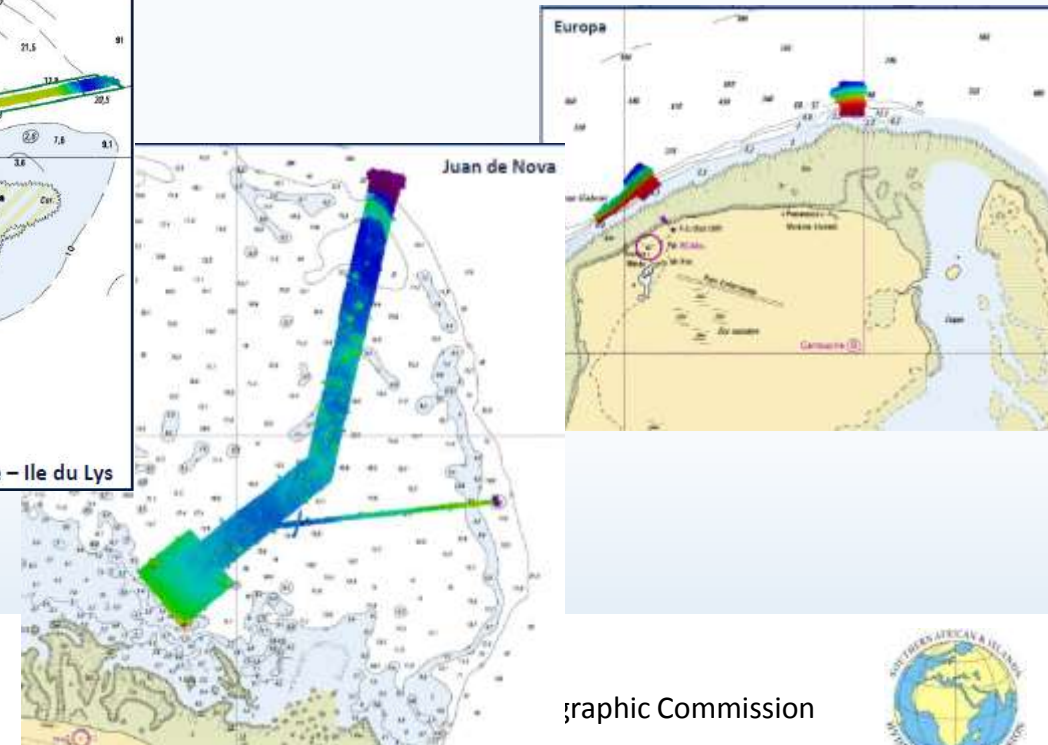
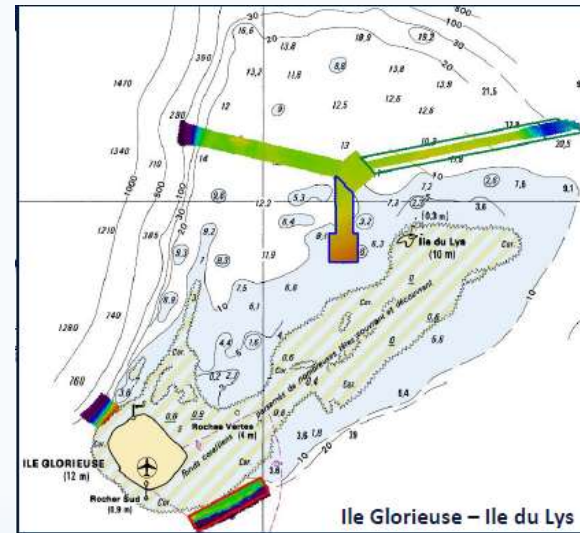
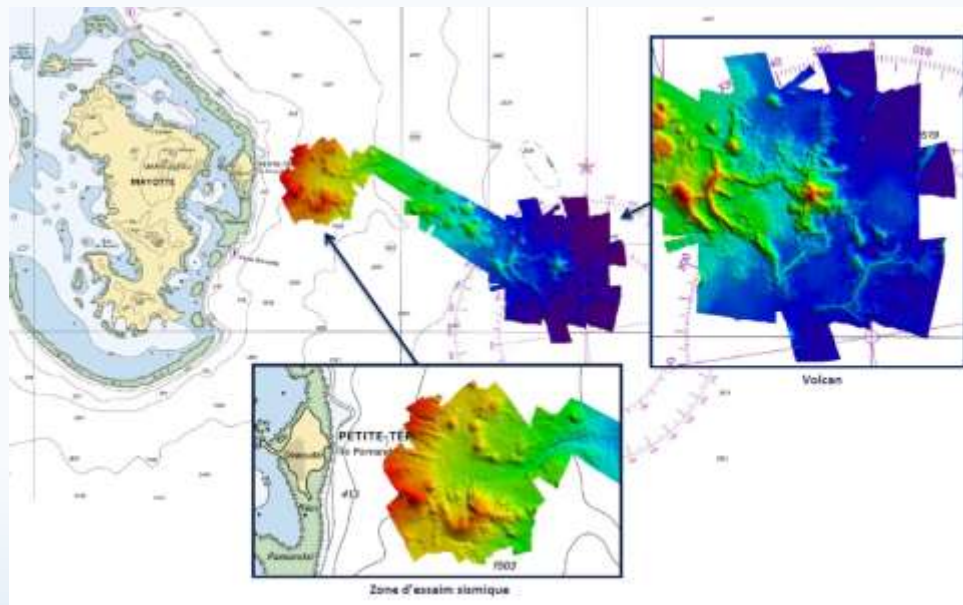
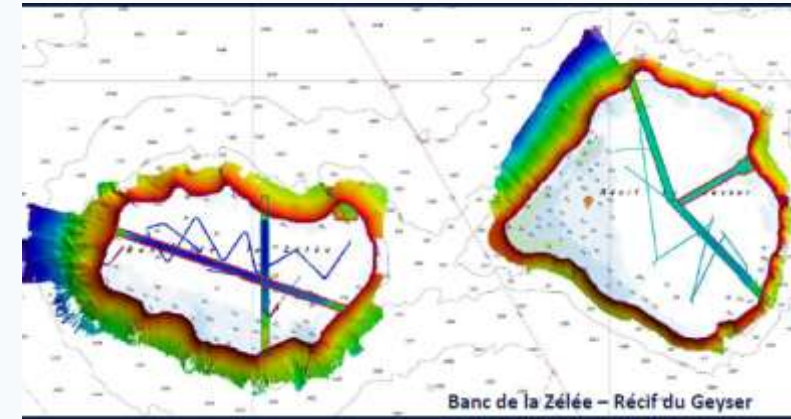
# 16<sup>th</sup> Meeting of the Southern African and Islands Hydrographic Commission

National Report by

FRANCE

# Main achievements during the year

- Surveys works have just been completed with BHO *Beautemps-Beaupré* in the French overseas departments & territories in the Mozambique channel (June-August 2019)



# Main challenges and/or obstructions

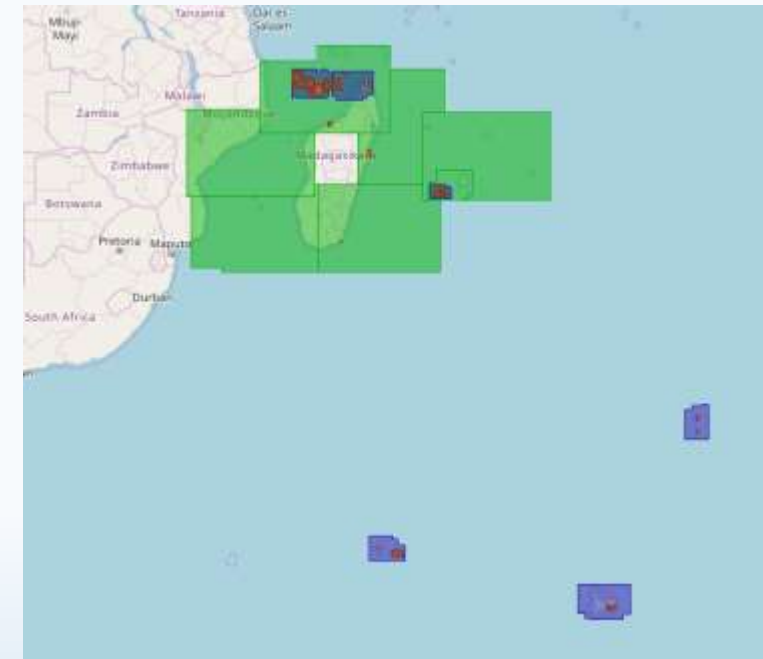
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- Request for authorization to conduct surveys in the waters under the jurisdiction of the Republic of Madagascar refused

# Progress on surveys, charting and MSI

- **Surveys:** Surveys currently ongoing in the French overseas departments & territories in the Mozambique channel
- **Charting:**
  - ENCs : 3 new produced in region H (FR274870, FR472400 & FR57240A) – 58 FR cells currently available for the region H
  - Paper charts : 1 new chart (INT7062 – FR7487)  
2 new editions (INT7748 – FR7171 & FR6497)
- **MSI:** no change (no NAVTEX station in French overseas territories, MSI warnings are broadcast through SafetyNet network)

*Shom's ENC production within Region H  
(source: Primar online catalogue)*



# Capacity Building

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- Contribution

- 2019 : onboard training offered to the F.T.M as part of the work planned in Madagascar could not be carried out due to the cancellation of the work
- 2020 : France will contribute to the envisaged visits
  - to Comoros - Technical visit (CBWP2020 activity A-03)
  - to Madagascar - High level and technical visit (CBWP2020 activity A-05)

These 2 actions are included in the 2020 capacity building work programme but are not yet funded

- Request for Support : /

# Contributions to the IHO DCDB and GEBCO

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- On waters under French jurisdiction in the SAIHC region, Shom's bathymetric data are accessible:
  - in the form of regional or coastal bathymetric DTMs:  
<http://diffusion.shom.fr/pro/risques/bathymetrie.html?p=1>
  - in the form of bathymetric datasets (soundings):  
<http://diffusion.shom.fr/pro/amenagement/bathymetrie/lots-bathy.html>

All topo-bathy lidar surveys covering Mayotte, Îles Eparses and La Réunion (Litto3D® programme) are also freely available : <http://diffusion.shom.fr/pro/risques/altimetrie-littorale.html>

All these data can be used freely to feed the DCDB and GEBCO (open data Etalab or CC-BY-SA 4.0 licences)

# Progress on MSDI

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- Shom's maritime and coastal geographic information portal : [data.shom.fr](https://data.shom.fr) regularly updated with new product and services
- Open access to core data: bathymetric data, wrecks, cables, sediments, maritime limits, and toponyms database (Distributed under Creative Commons « CC-BY-SA 4.0 » licence)
- National site for consultation and diffusion of the official information on the maritime delimitations of France : French maritime limits portal <https://limitesmaritimes.gouv.fr/>



# Plans that affect the region

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- Hydrographic vessel *Beautemps-Beaupré* will be deployed in the Indian Ocean in 2021.
- Pursuing the cooperation with Madagascar is one of the objectives of this upcoming campaign.



# Lessons learned to share

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# Success stories to share

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International Hydrographic Organization  
*Organisation Hydrographique Internationale*

Southern African and Islands Hydrographic Commission



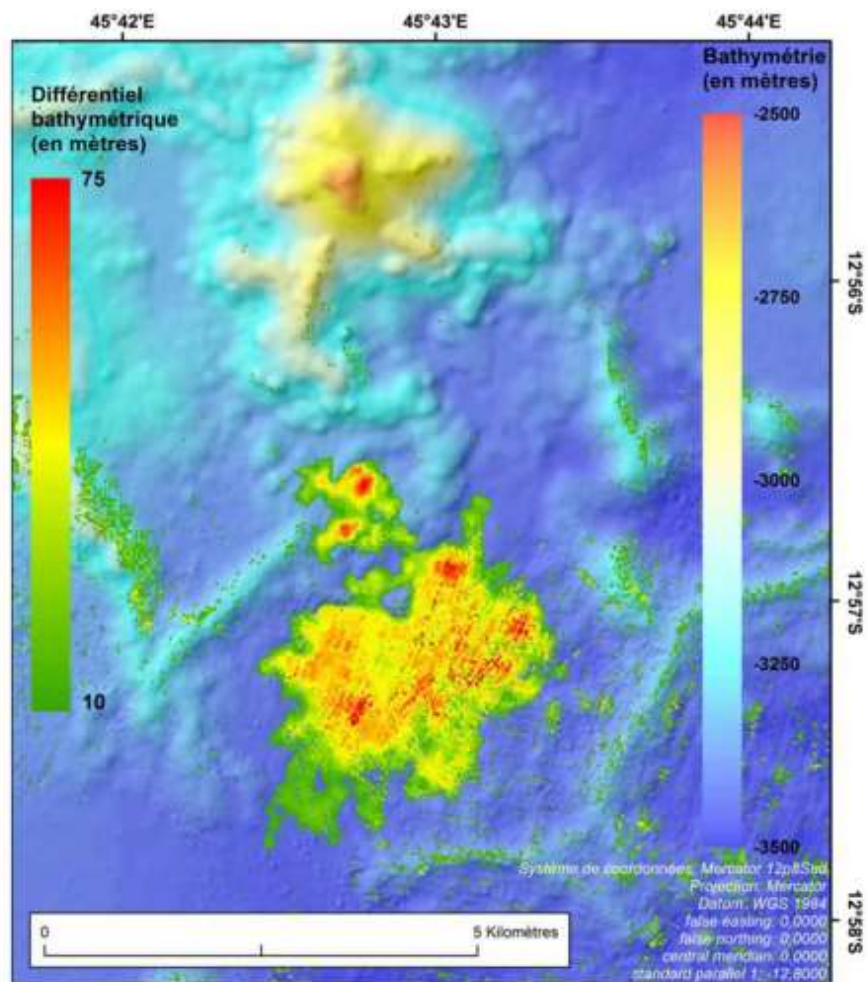


Figure 5 : Différentiel bathymétrique entre les levés de sondeur multi-faisceau des campagnes MAYOBS1 et MAYOBS2, mettant en évidence l'apparition de nouveaux reliefs au sud du volcan actif qui avait été découvert pendant MAYOBS1.

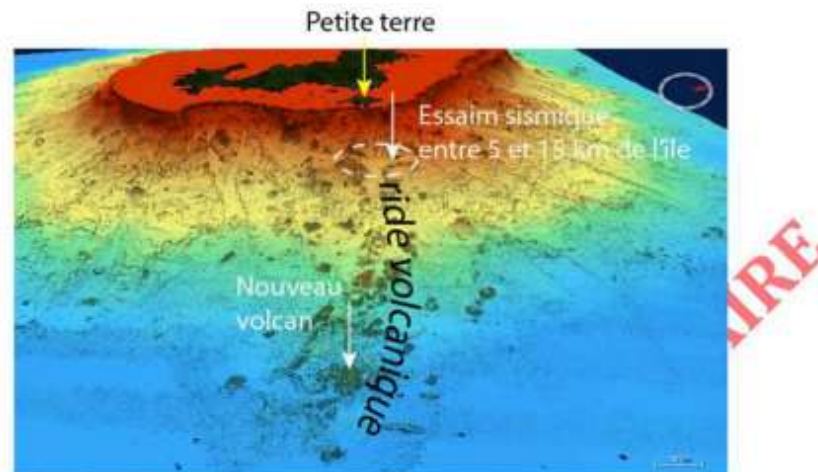


Figure 1: Vue vers Mayotte de la ride volcanique et des nombreux édifices qui la composent. Le nouveau volcan est indiqué par une flèche.

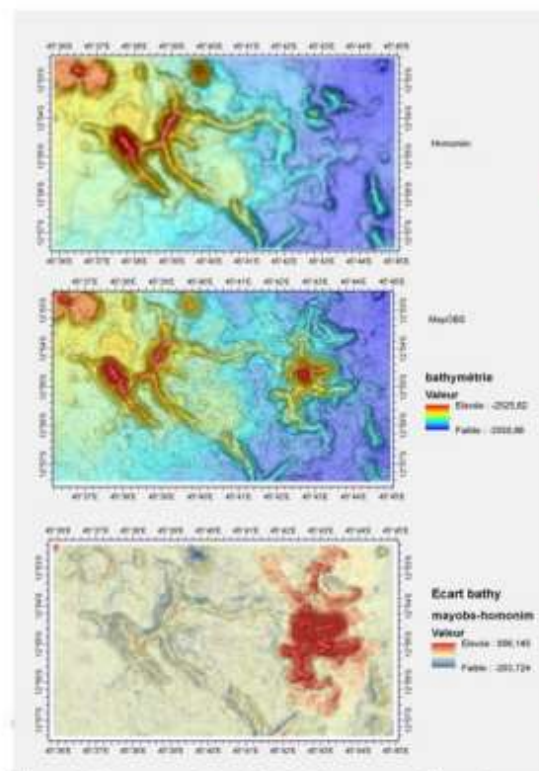
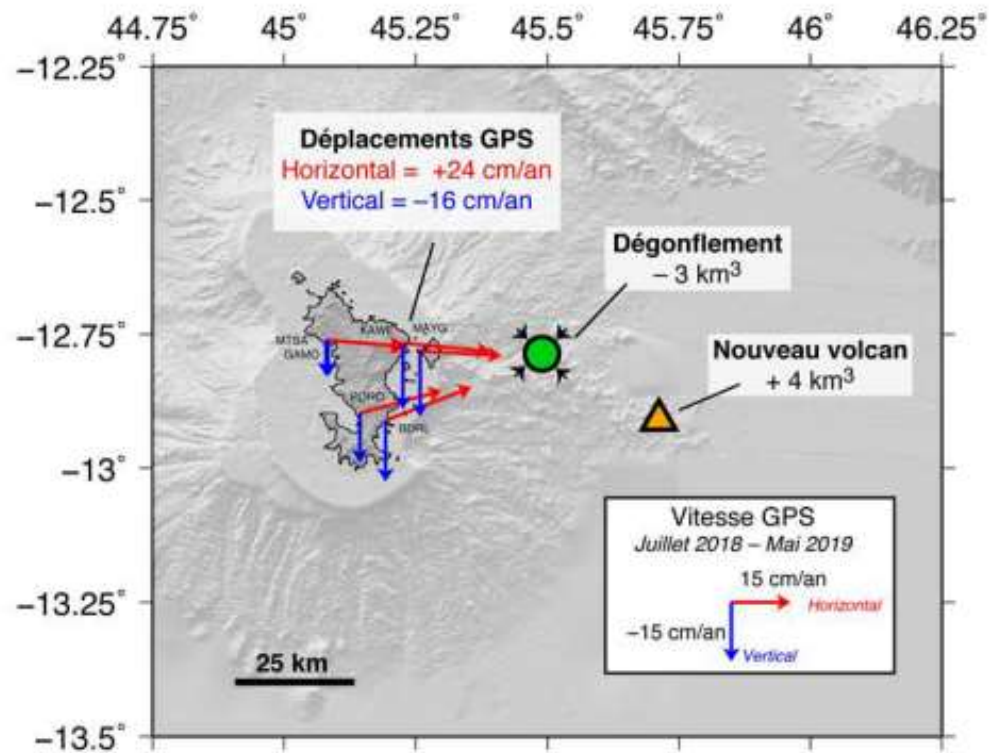


Figure 4: Différence entre des jeux de bathymétrie mettant en évidence le nouveau volcan: bathymétrie du SHOM (probablement 2014 à confirmer) avant. Bathymétrie acquise durant la mission. Différence entre les deux jeux de bathymétrie. Le nouveau volcan a un diamètre d'environ 3-4 km et une hauteur de 800m.





**Tiré de:** R. Grandin, Internal report, 2019-05-31

**Data:** IGN, RGP, IPGS, INSU, CNES, Météo France, Exagone, PrecisionTopo,

**Traitement:**

IGN, P. Briole (ENS), A. Peltier et R. Grandin (OVPF-IPGP, IPGP), F. Beauducel (IPGP/IRD, IPG-S)

