

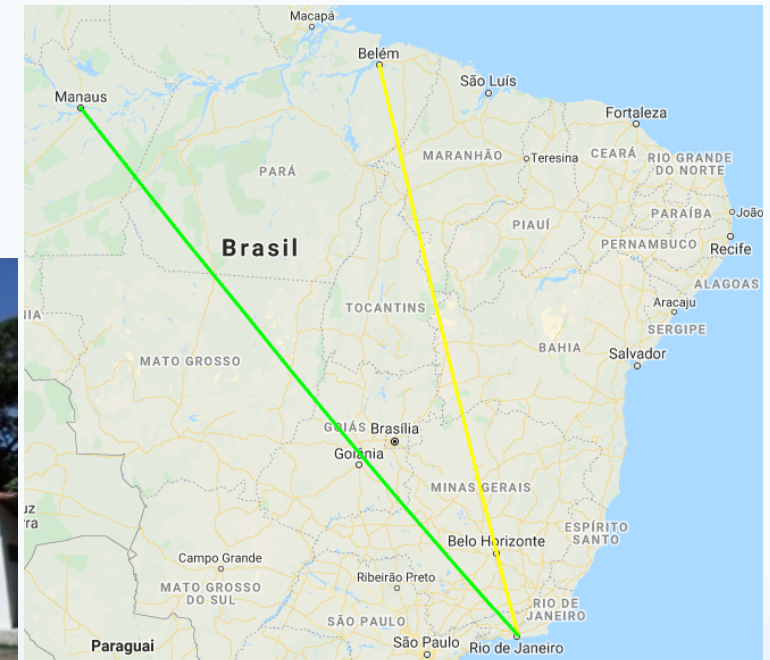
# 21<sup>st</sup> Meeting of the Meso America – Caribbean Sea Hydrographic Commission

National Report by Brazil

Directorate of Hydrography and Navigation  
Brazilian Navy

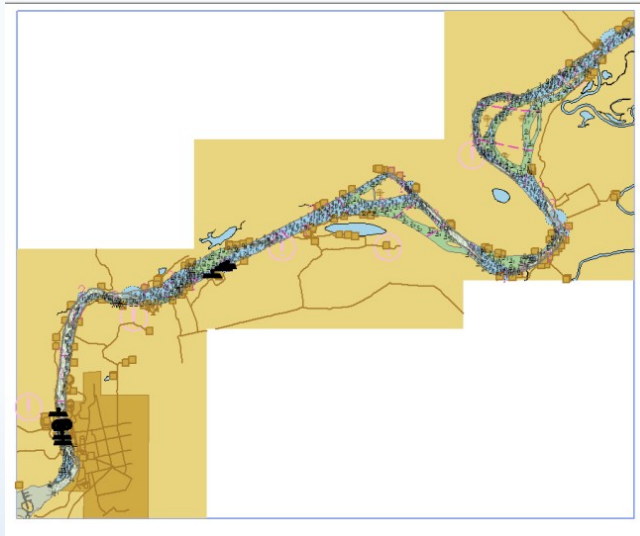
# Top achievements during the year

Solved the problem of remote access by the regional hydrographic offices to hydrographic and cartographic databases located at DHN (Niterói, State of Rio de Janeiro)



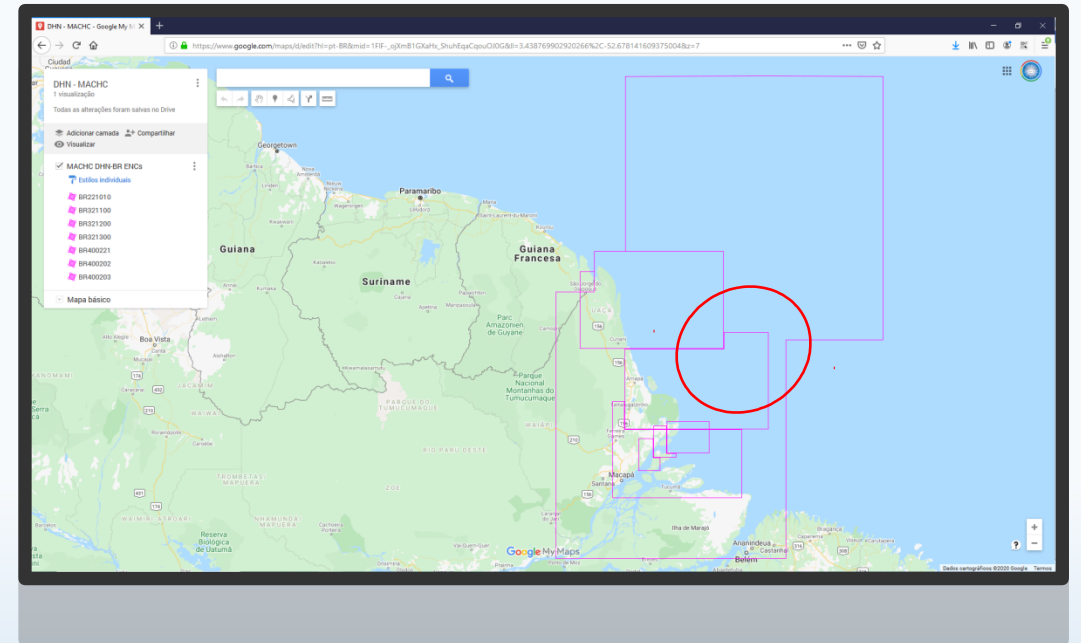
# Top achievements during the year

Progress in the training of the regional hydrographic offices in the Amazon (Belém and Manaus) associated with post-processing of hydrographic data and production of charts



# Top achievements during the year

Update of Electronic Navigational Charts at the mouth of the Amazon River, based on the new parameters for the tide reduction for the region.





# Top challenges and/or obstructions

- Reduced the work capacity due to the COVID-19 pandemic
- Need to upgrade Oracle database management systems, CARIS HPD and Bathy DataBASE applications, as well as migration to the Oracle Exadata environment in preparation for the S-100 standard



# Top plans that affect the region

- Update the Navigational Warning system, looking for a web solution with structured data
- Expand the capabilities of the chart production control system that maps and measures the production flow
- Continue with the work to increase the training of regional hydrographic offices in the Amazon so that they become fully autonomous (survey analysis and chart production)

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## Relatórios de Análise

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