National Report Suriname 2022

23rd MESO-AMERICAN – CARIBBEAN SEA HYDROGRAPHIC COMMISSION MEETING

28November – 3 December 2022

Maritime Authority Suriname

November 27, 2022

Contents

1. Hydrographic Office/Service

Maritime Authority Suriname aims for the following:

- A safe and efficient transfer securing sea-going vessel to and from Suriname in regards with international norms and rules accepted and in conformity with the treaties established by Suriname.
- Supervision of the compliance of legal requirements for shipping and maritime traffic.
- To be a recognized authority in both the national and international maritime field.
- Further professionalizing of the implementation of duties and making of proposals for the modernizing of the legislation.
- To undergo a culture change, which is focused on productivity and a professional working attitude.

Vision:

TO BE A PROFESSIONAL, COMMERCIAL ORIENTED, INNOVATIVE AND LEADING ORGANIZATION.
INITIATING AND FACILITATING MARITIME DEVELOPMENT

Mission Statement:
“ASSURING SAFE, SECURE, ENVIRONMENTALLY SOUND, EFFICIENT AND SUSTAINABLE SHIPPING”.

2. Surveys

- Coverage of new surveys:
    - No surveys of new areas.
    - Monitoring of the Suriname River from the entrance to Dijkveld. For the Suriname river dredging project (SRDP)
    - ISPS harbor facilities (17) were dredged and surveyed in 2022 to be in line with the main river channel and for the update of their respective Shipping Notice and ENC band 6.

- New technologies and / or equipment:
    - Annual Fugro Marinestar DGPS subscription renewed.
    - ADCP
    - Current tide stations replaced by Radar Systems.
    - Preparation of expansion of the current tidal network with four extra tide stations along the Suriname River and Coppename River.

- New ships: none

- Crowdsourced and satellite-derived bathymetry - national policy:
  - All data collected in the offshore area are referenced at Mean Sea Level.
  - All data collected in the nearshore area are referenced at Low Water Spring.
  - Inland surveys are exclusively conducted by MAS and are referenced at Low Water Spring.
  - No national policy established yet for satellite-derived bathymetry.

- Challenges and achievements:
  - Achievement: Closure of Phase 1 SRDP (Suriname River Dredging Project). Minimum depth of 4.5 m Chart Datum is guaranteed from the entrance of the Suriname River up to Paranam. Start of dredging to minimum depth of 5.5 m Chart Datum.

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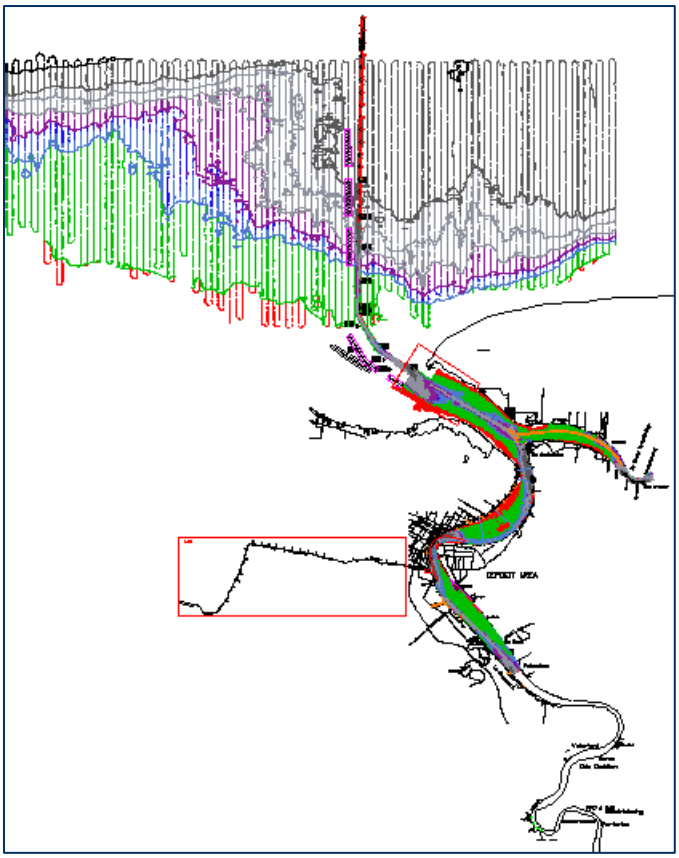

Figure 1: Phase I Suriname River Dredging Project –Minimum depth of 4.5 m LWS from the entrance up to Paranam.

- A challenge is the transition to S-100 standards which was initiated in 2021 and is still ongoing project. The implementation plan for dual production S101 and S57 is currently in process. The challenge for us is lack of the practical knowledge for implementation, an internship will be the best solution. With regards to the other S100 products collaboration with national and international partners will be necessary for not all fall under the jurisdiction of the maritime authority.
  The challenge are at different levels ;

Guidance is requested for implementation on governance and institutional level , policy and legal, standards;
Financial resources should be made available for infrastructure and innovation;
Require partnerships and capacity building to improve technical skills .
structures.

4. New publications & updates:

- New Publications: Tide Table 2023 for Suriname. Tide tables are released each year.

- Updated publications: Shipping Notices for the nautical accessibility of ISPS certified ports and rivers are updated after detail surveys of the ports. Port Information of Suriname will be updated on the World Port Index website and IMO GISIS website

5. MSI

- Existing infrastructure for transmission:
  Partial radio warnings for coastal area through VTC .
  NtM published in local papers and website, emailed to mariners.
  NtM submitted to the NAVAREA coordinator
  No GMDSS system in place .

- Statistics on work of the National Coordinator: This year, a total of 24 MSI has been submitted to the NAVAREA Coordinator and a total of 90 NtM has been published locally.

MODU	10
HAZARDOUS OPERATIONS	4
MSI CONCERNING WRECKS	2
SCIENTIFIC SURVEYS	2
HYDROGRAPHIC SURVEYS	2
SEISMIC SURVEYS	4
TOTAL	24

- New infrastructure in accordance with GMDSS Master Plan:
  Currently a GMDSS Master Plan is still in concept. The organization responsible for the GMDSS is the Coast Guard of Suriname (established in 2019), Search and Rescue obligation are partially covered. The Coast Guard of Suriname work in collaboration with Search and Rescue coordinator of the region. MAS is assisting the Coast Guard of Suriname in developing the national GMDSS.
  The national partners for implementation GMDSS were identified, the collaboration between parties will be documented and executed conform the MOU GMDSS.
  The next step is to seek support from IMO with regards to GMDSS expertise to update and execute the draft workplan.

- Challenge: GMDSS expertise ,lack of finance, and equipment for the development of GMDSS.
  The challenge are at different levels;
  Technical Guidance is requested for implementation
  Financial resources should be made available for infrastructure and innovation;
  Require capacity building to improve technical skills .

6. C-55

See Annex B

7. Capacity Building Offer of and/or demand for Capacity Building

- Training offered:
  - The Suriname Aton Academy in partnership with IALA will provide the IALA L1 Aids to Navigation Manager Course in the first quarter of 2023,

    Please contact for more information:
    Email: dlecouvreur@mas.sr
    or
    bmahabier@mas.sr

- Training received:
  - Compiling for Navigational Safety, January 2022
  - Empowering Women in Hydrography through at – sea experience with NOAA Thomas Jefferson, August 2022:
    The aim of this project was to gain hands-on experience on board a NOAA hydrographic vessel. Ms. Firosa Tomohamat had the opportunity to get acquainted with NOAA vessels and hydrographic operations, operate NOAA commercial hydrographic equipment and software and become familiar with NOAA's Hydrographic Survey Specifications and Deliverables. She also had the opportunity to experience hand-on survey work, emergency drills on board, work within the data management processes and procedures of NOAA. We are very grateful to NOAA for this learning opportunity and the positive impact this experience has for our other female colleagues.

- Training needed:
  - Demand for Capacity Building:
    - Hydrography cat. B
    - Training for execution of each S100 product.

  - Required Internship:
    - Tidal analysis: for the determination of LAT and tidal modelling.
    - Side Scan Sonar image interpretation
    - Conversion S57 to S101

- Status of bilateral projects: continuation of established MoU with the various organizations.
  - MoU DNH finalized
  - MoU IC-ENC finalized
  - MoU UKHO finalized
  - MoU SHOM finalized
  - MoU Universiteit Utrecht – Faculteit Geowetenschappen, Nederland (UU-GEO) in process with objectives:
    1. Guarantee the safe and efficient passage of sea-going vessels to and from Suriname based on internationally accepted standards and rules and in accordance with the conventions ratified by Suriname.

2. Pursue a proactive policy and innovation in the maritime sector and incorporate them in the strategic plan through cooperation. Plays an increasingly important role nationally and internationally and is of great importance for the economy of Suriname. Developments in the world are constantly making higher demands on safe, secure, and environmentally friendly waterways and shipping.
3. Contribution to the Social, Social and Economic developments of Suriname through projects, scientific research, technological developments, training and education.

8. Oceanographic activities

- General: due to the developments of the offshore and nearshore oil industries, seismic surveys and other surveys are being conducted by third parties. A seismic survey has been conducted in the black outlined area in figure 2 below.

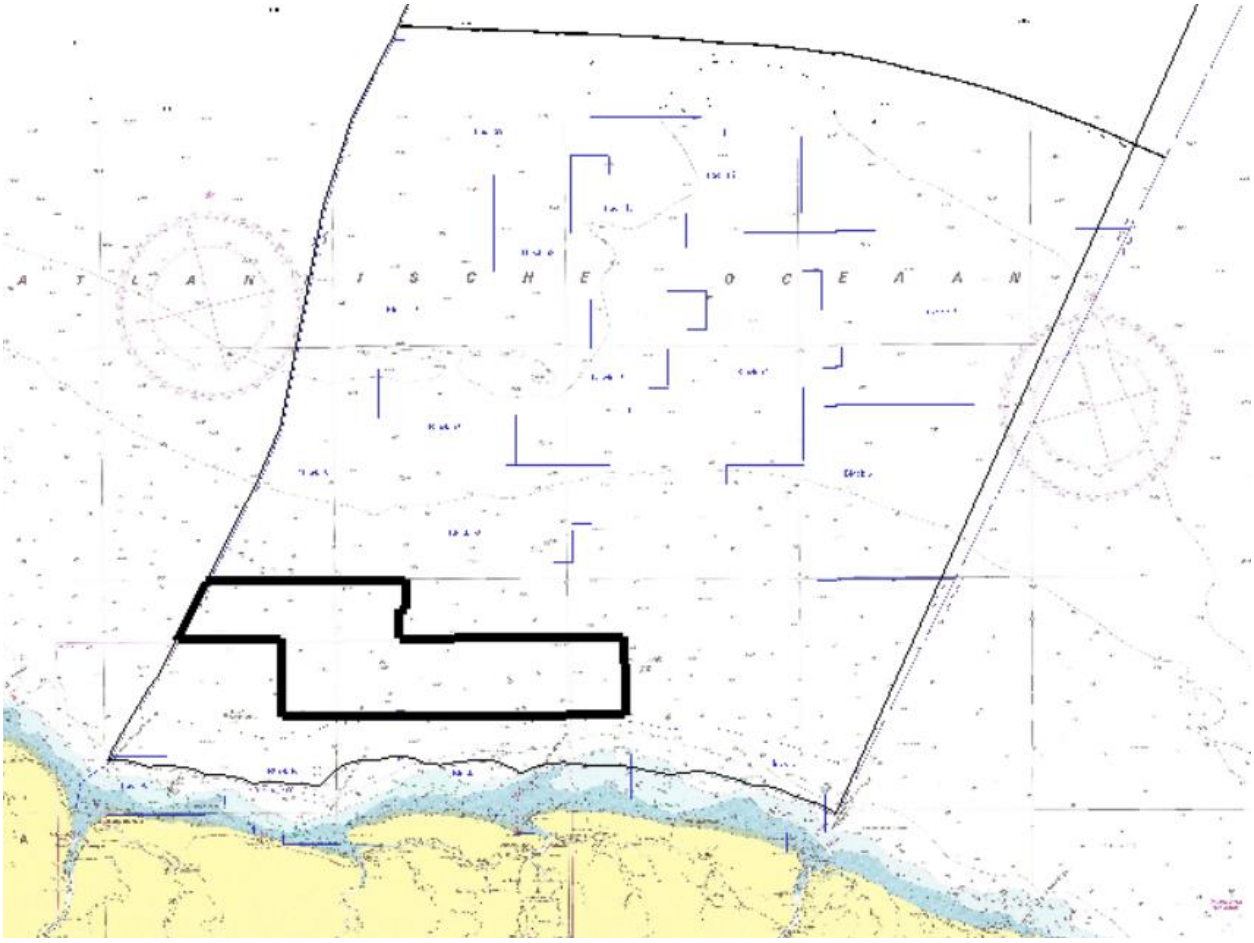

Figure 2: Seismic survey in black outlined area being conducted by third party in regards of offshore oil industry.

- GEBCO/IBC's activities, GEBCO Seabed 2030 activities:
  Developments with regards to Seabed 2030:

- Bathymetric data of maritime area of Suriname up to the continental shelf received form Regulatory Agency of Oil and Gas. MAS is in the process to acquire formal approval to make the data publicly available. Approval was granted currently, and the data will be made available in the first quarter of 2023
- MAS Web portal for bathymetric data sharing still in construction and available by 2023.

- New equipment: replacement of float tide gauge systems with radar system.

- Challenges and achievements: hydrographic survey was conducted in October 2022. The survey area was the entrance of the Suriname River.

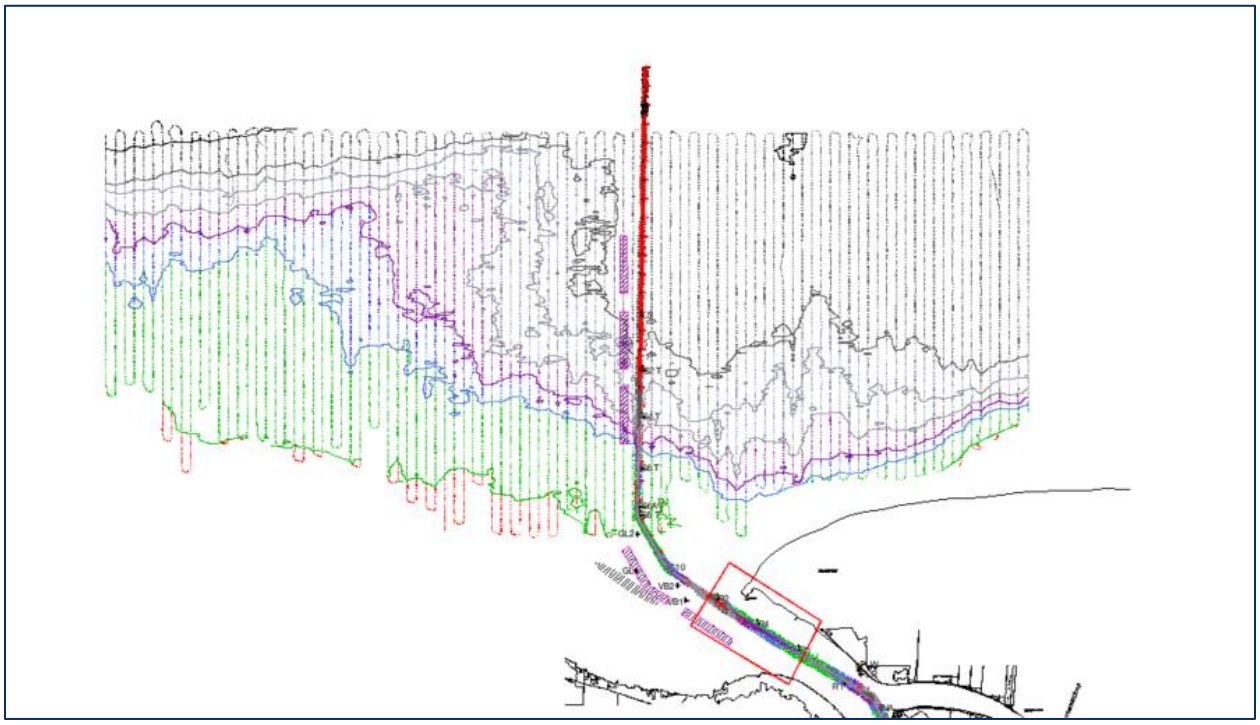

Figure 4: Survey area entrance of the Suriname River, October 2022.

9 Spatial data infrastructure

- Status of MSDI: A structure for the MSDI is now in place and the hydrographic layers are maintained and updated. These layers include wrecks, Fairway Markings, information regarding ISPS Ports and other jetties.
- Relationship with the NSDI: The Management Institute for Land Registration and Land Information System, abbreviated as MI-GLIS is by the Surinamese Law the institution for developing and maintaining of NSDI, which is still under development.
- Involvement in regional or global MSDI efforts: Collaboration with Green Heritage Fund and WWF continues. Info / layers of the 3D model of the Surinamese coast will be placed on the Gonini web portal at https://www.gonini.org/
- National implementation of the Shared Data Principles – including any national data policy and impact on marine data: the Management Institute for Land Registration and Land

Information System, abbreviated as MI-GLIS is by the Surinamese Law the institution for developing and maintaining of NSDI, which is still under development.

- MSDI national portal: not yet established

10. Innovation

- Use of new technologies: ArcGIS
- Risk assessment: none
- Policy matters:
  National Maritime transport Policy is being drafted with the support of the IMO.
  National policy is being drafted for Spatial planning and development for Suriname

.11. Other activities

- In 2021 the Suriname Red Cross (SRK) and MAS collaborated in a Community Early Warning System (CEWS) project. For this project vulnerable communities were identified, and the aim of this project is to prepare the communities for natural disasters. Natural disasters that were identified are: drought, high velocity winds and flooding. Tide gauges were placed along the riverbanks of the Commewijne River and Cottica RIver for the communities. Together with the local villagers the gauges were marked to indicate the extreme water heights so they can prepare for flooding. The local gauges will be related to two tide stations which are part of our tidal network. The tide stations are located at the mouth of the Commewijne River and in the Cottica River. The tide station of Traymore was funded by the Red Cross and was installed in November 2022.

Figure 5: CEWS project in collaboration with Suriname Red Cross.

Figure 6: Instalment and configuring of new tide station at Traymore Port, Cottica River.

Figure 7: Local tide gauge with the flood mark (red line).

Figure 8: Set up of local tide gauge

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- A ‘Maritime Open Day’ will be held on December 2nd, 2022 in regard of World IMO Day, World Hydrography Day and Seafarers Day. Schools and individuals are invited to learn more of maritime aspects. The participating parties are MAS, DP World, Coast Guard of Suriname, The Marine, Suriname Maritime Institute. Maritime Police and WIMAC.

- ISO audit: A virtual ISO audit was held in November 2022.

12. Conclusions

Overall a good years , challenges with regards to S100 and GMDSS need to be addressed .