Annex D

22nd Conference of the Meso American - Caribbean Sea Hydrographic Commission

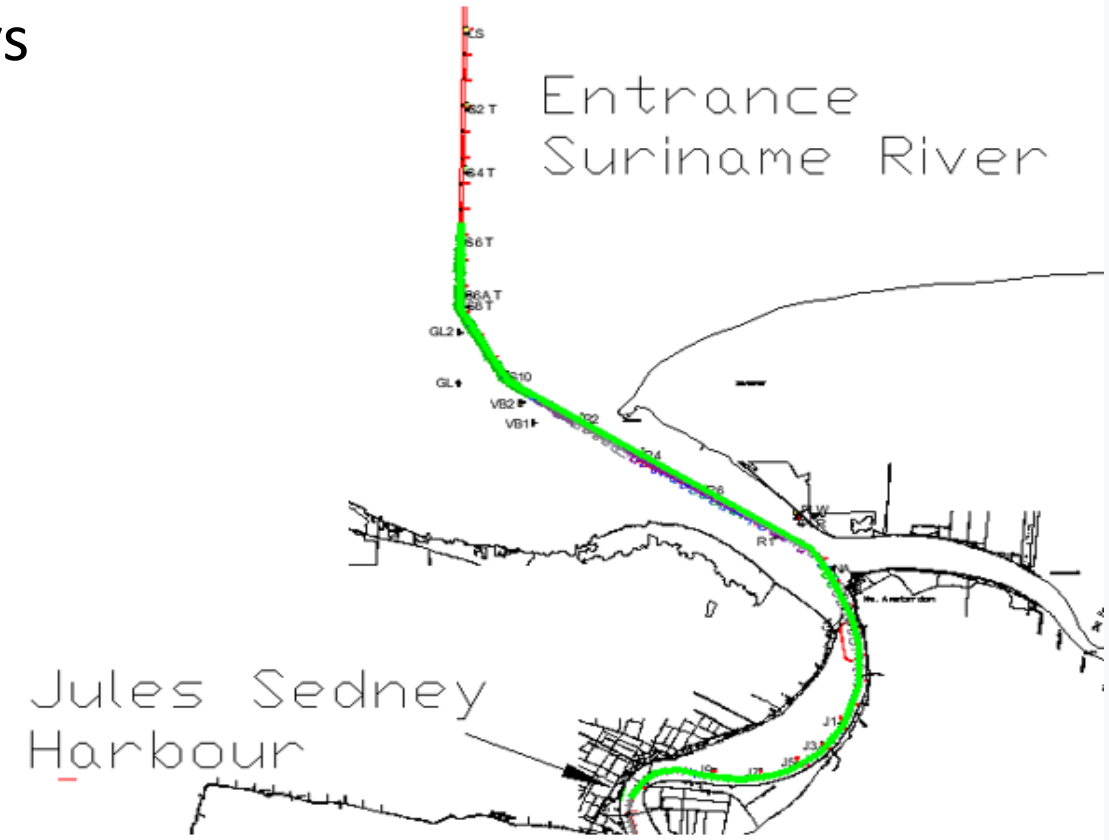
National Report by

The Republic of Suriname

Top Achievements during the year

- 1. Suriname River Dredging and Surveys

- **Phase I: depth of 4.5 meters, 68km (April 2021).**
- **Phase II: depth of 5.5 meters , 90km (2022).**
- **Phase III: depth based on shipping needs.**
- **Maximum length vessel 225 m, maximum beam vessel 35 m**
- **Vessels can load deeper.**
- **Development of the oil and gas industry in Suriname.**
- **Port efficiency will increase.**
- **Dredging companies: de Boer & Boskalis joint venture.**



Top Achievements during the year

- 1. Suriname River Dredging and Surveys

Average Available Water depth 4.5m

Channel depth 4.5 m

Average Springtide 2.8m

Average Neap tide 2.15m

Average Water depth Available at Springtide 7.3m

Average Water depth Available at Neap tide 6.65m

UCK (not included , variable depending on ship)

Vessels can load deeper

Depth of 4.5 m

Container ships: ± 30 to 40%

Tankers: ± 15 to 20%

Bulk carriers (wood): ± 15 to 20%

Average Available Water depth 5.5m

Channel depth 5.5 m

Average Springtide 2.8m

Average Neap tide 2.15m

Average depth Available at Springtide 8.3m

Average depth Available at Neap tide 7.65m

UCK (not included , variable depending on ship)

Vessels can load deeper

Depth of 5.5 m

Container ships: ± 90 to 120%

Tankers: ± 45 to 60 %

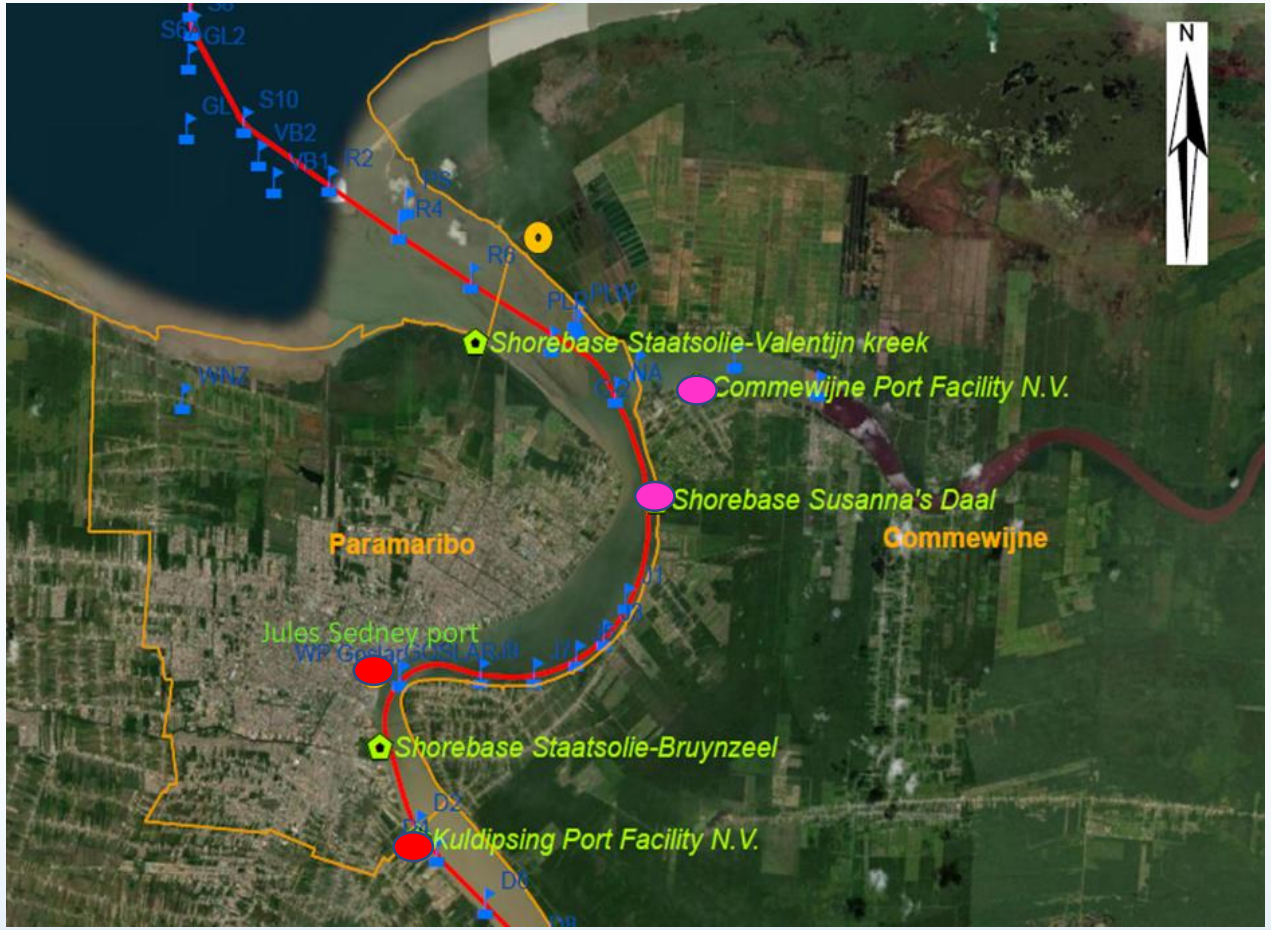
Bulk carriers (wood): ± 45 to 60%

Top Achievements during the year

- 2. Shore base development

Top Achievements during the year

- 2. Shorebase development



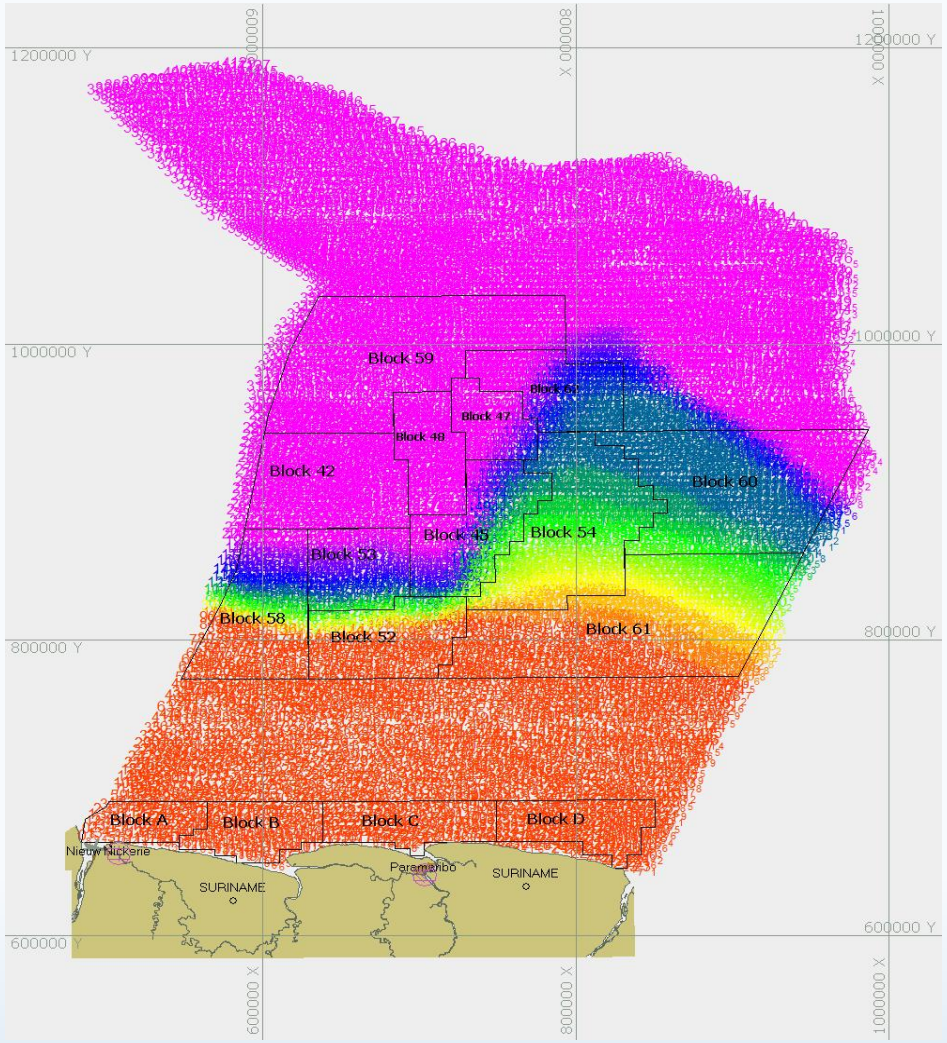
Red in operation
Magenta in development
Green awaiting formal request

Top Achievements during the year

- 3. 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

✓ MAS Web portal for bathymetric data sharing in construction and available by 2022



Top Achievements during the year

- 4. Assisting the Suriname Red Cross with their Community Early Warning System (CEWS) project.

CEWS some of the vulnerable communities which has been identified along the Commewijne, Cottica and Marowijne River

Training of the community of Galibi (warning indicators for flooding)

Galibi Beach

Top Challenges and/or Obstructions (3 maximum)

1. Implementation of IHO strategic Goals
2. Transition to S-100: The transition to S-100 standards was initiated this year and is still on going. The challenge for us is to transform our current procedures and forms to the new standards.
3. GMDSS implementation.

Top Challenges and/or Obstructions (3 maximum)

1. Implementation of IHO strategic Goals

IHO Goals	IHO goals converted into MAS Strategic Goals	
1	Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation	
Strategic goals	• Capacity building and training to develop skills of personnel (partnerships, purchase) • Adjust infrastructure to produce S100 products • Implement S100 standards, • Production of S100 products, (inhouse /partners) • Make products available on international market (IC- ENC , UKHO or other)	
2	Increasing the use of hydrographic data for the benefit of society	
Strategic goals	• Use capacity building and training to develop skills of personnel • Set up/ expand MDSDI infrastructure • Data gathering- through survey , crowd sourcing, or other method • Data analysis & production of tailormade products • Data sharing through web portals or data bases (national and international)	
3	Participating actively in international initiatives related to the knowledge and the sustainable use of the Ocean	
Strategic goals	• Expand MSI services in accordancewith the joint IMO/IHO/WMO manual on MSI • Data Contribution to DCDB / GEBCO for seabed 2030/ National agencies • Make use of capacity building and training opportunities to develop skills and expand knowledge of personnel • Participate in working groups .	

Top Challenges and/or Obstructions (3 maximum)

2. Transition to S-100:

The transition to S-100 standards was initiated this year and is still on going. The challenge for us is to transform our current procedures and forms to the new standards.

Maritime Data Product	IC-ENC Comments	HO Production Estimates Please select one, see definition above.	HO Comments
ENC (S-57 / S-101)	The S-101 ENC Product Specification is evolved from S-57.	Near-term	convert from S57
	ENC Scheming – use of a grid structure?	Medium-term	Streamline with S100 products.
	Conversion	Near-term	convert from S57
S-102 Bathymetric Surface	S-102 allows gridded bathymetric information to be provided in support of navigation.	Near-term	More for critical areas.

For HO Production Estimate, the following definitions apply:
Unknown; Now/very near (now or expected during 2021); Near-term (2022-2023); Medium-term (within next 5 years – by 2026); Long-term (within next 10 years – by 2031).

Top Challenges and/or Obstructions (3 maximum)

S-111 Surface Currents	S-111 uses an HDF-5 encoding to provide surface current information.	Long-term	Training needed
S-122 Marine Protected Area	This vector product specification allows Marine Protected Areas (MPAs) to be captured including more detail than is available in the S-101 ENC product specification.	Near-term	Data is available.
S-124 Navigational Warnings	Action plan being developed	Long-term	Partnership& training
S-104 Water Level Information for Surface Navigation	S-104 uses a gridded HDF-5 encoding to provide height information either from predictions, forecasts or observations. The different types of information have corresponding update intervals.	Medium-term	Tidal modelling
S-412 Weather Overlay	Action plan being developed	Unknown	Partnership National Meteorological centre & training

Top Challenges and/or Obstructions (3 maximum)

S10x OTHER	**There may be other S10x product specifications which your office is considering production/distribution.** **If relevant, please state them here along with any further comments.**	**Near-term** **Medium-term**	**S-201 Aids to Navigation Information** **S-121 Maritime Limits and Boundaries** **S-129 Under Keel Clearance Management (UKCM)**

Top Challenges and/or Obstructions (3 maximum)

3. GMDSS implementation:

- Discussions on going about the implementation of GMDSS by respective authorities.
- Lack of finance for the set up of GMDSS.

Top Plans that affect the region (3 maximum)

The Suriname Aton Academy in partnership with IALA will provide **the IALA L1 Aids to navigation manager course in last quarter of 2022**,

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