

19th Meeting of the North Indian Ocean Hydrographic Commission



National Report by

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International Hydrographic Organization
Organisation Hydrographique Internationale

North Indian Ocean Hydrographic Commission



Outlines

- Main achievements during the year
- Main challenges and/or obstructions
- Progress on surveys, charting and MSI
- Capacity Building
- Progress on MSDI



Main achievements during the year

- In pursuance of an MoU for cooperation in the field of Hydrography signed between Govt of Seychelles and Govt of India, first ever Hydrography Joint Committee Meeting was held in Seychelles in Jun 2018. Various issues of concern in the field of Hydrography were discussed. Some of deliverables of the meeting are:-
 - Regular Survey by Indian for Seychelles.
 - Capacity building through training courses in India and handing over of certain survey equipment.



Main achievements during the year (Cont....)

- **Seychelles Ocean Temperature Network (SOTN)**

- Established with aim of developing capacity and collaborating with relevant research institutes involved in ocean temperature monitoring. Also to improve knowledge of climate-driven changes in marine ecosystems and services.
- Rationale and justification for the project stemmed from threats posed to Seychelles coral reefs by temperature-induced bleaching, mortality and perceived threats to coastal fisheries.



Main achievements during the year (Cont....)

- **Seychelles Ocean Temperature Network (SOTN).** (Cont.....)
 - Temperature loggers deployed at depths of 5m, 15m and 18m respectively at 31 sites around Mahe Plateau and the outer islands
 - Currently, there is a database of ~11yrs (since 2007). The data is being downloaded annually around the Mahe Plateau and the stations maintained by SFA. The data is being kept in a repository at SFA.



Main achievements during the year (Cont.....)

- **R/V *Dr Fridtjof Nansen* survey – EAF-Nansen Programme**
 - Research survey carried out on the Mascarene Bank (Saya de Malha and Nazareth Banks) from 4th May to 3rd June 2018. The main aim of survey was to enhance knowledge on marine ecosystem and morphological structure of the Saya de Malha Bank.



Main challenges and/or obstructions

- Seychelles has very limited capacity to undertake hydrography surveys and keep its charts and publications updated. Therefore, we rely heavily on other member nations of the IHO to undertake survey. Further, Seychelles continues to supply information to the UKHO for updating of charts. Therefore, there is an urgent need to undertake thorough capacity building of the Seychelles hydrography capability to produce its own charts by training, equipment procurement and recruitment.



Progress on surveys, charting and MSI

- **Surveys:** Nil
- **Charting:** Nil
- **MSI:** Coastal Radio Station and NAVTEX established within National Information Sharing and Coordination Center (NISCC) which has been established recently



Capacity Building

- **Requirements**

- Hydrographic Surveying Category 'A' and Category 'B' Courses.
- Nautical Cartography (Paper Chart and ENC).
- Hydrographic equipment maintenance.
- On job training for hydrographic surveys and chart production.



Capacity Building (Cont.....)

- **Requirements (Cont.....)**
 - Creation of a Marine Spatial Data Infrastructure (MSDI)
 - National Oil Spill Contingency Planning and Oil Spill Sensitivity Atlas



Capacity Building (Cont.....)

- **Requirements (Cont.....)**

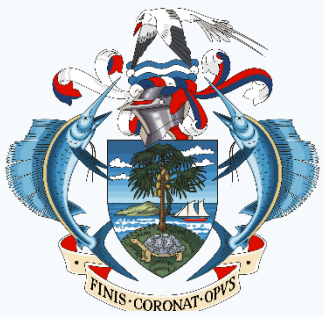
- **Immediate Requirement.** Mobile hydrographic survey equipment's such as single beam and multi-beam echo sounder, GPS, PC with data logger as well the appropriate software to process the data, tide gauge as a short term requirement for small scale survey.
- **Long Term Requirement.** - A small boat equipped with sophisticated equipment like mounted echo sounders (single beam and multi beam), GPS, PC with data logger software to process data and motion sensor, radar, side scan sonar, level station and total station, Sound Velocity Profiler (SVP) and Acoustic Doppler Current Profiler (ADCP).



Progress on MSDI

- Seychelles do not have a MSDI,
- The Centre for GIS, of the Ministry of Habitat, Infrastructure and Land Transport (MHILT) has embarked on a project to create a National Spatial Data Infrastructure (NSDI) for Seychelles this year with the assistant of world bank.





End Thank You

