

MACHC 23 Meso American-Caribbean Sea

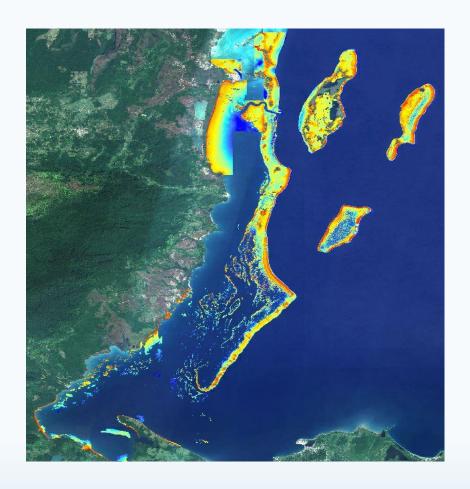
Hydrographic Commission National Report Belize C.A.

Presented by: Mr. Michael Jenkins, Operations and Safety Manager **Belize Port Authority**

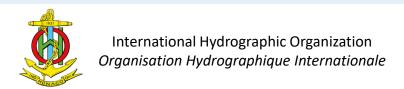


Through the Commonwealth Marine Economies Program.

 Enabling Safe and Sustainable Marine **Economies across** Commonwealth Small Island developing States **UKHO** delivered SDB data to Belize on the 29th April 2022.









Achievements accomplished during the past year; establishing a Steering Committee to develop a Marine Spatial Plan comprising of the following stakeholders

- 1. Ministry of Blue Economy and Civil Aviation
- 2. Ministry of Sustainable Development, Climate Change and Disaster Risk Management
- 3. Ministry of Tourism and Diaspora Relations
- 4. Ministry of Finance, Economic Development and Investment
- 5. Ministry of Natural Resources, Petroleum and Mining,
- 6. Coastal Zone Management Authority and Institute
- 7. Blue Bonds/Finance Permanence Unit, Office of the Prime Minister
- 8. The Nature Conservancy
- 9. Belize Network of Non-Governmental Organizations (BNN)
- 10. Belize Port Authority
- 11. Energy Unit, Ministry of Public Utilities, Energy and Logistics
- 12. University of Belize (UB)
- 13. Belize National Coast Guard
- 14. Belize Fisheries Department
- 15. Belize Forest Department
- 16. Department of Environment
 - 20. Chairs of 4 TWGs: (1.) Finance and Investment; (2.) Fisheries (*inclusive of Aquaculture*); (3.) Marine and Coastal Ecosystems; (4.) Tourism





Governance of the MSP Process

Governance Framework for Belize MSP Process







Public Input Mechanisms

Stakeholder Engagement

Community Meetings
Consultations
Focus Groups
Forums
Open Houses
Website

Executive Management

Government of Belize

MSP Lead Agency: Coastal Zone Management Authority and Institute

Executive Committee

Chair: CEO Office of the Prime Minister
Members: Ministry of Blue Economy & Civil Aviation; Ministry of Sustainable
Development, Climate Change & Disaster Management; Ministry of Natural
Resources; Solicitor General; and the Financial Secretary

Development Level for Decision Making

MSP Steering Committee (SC)

Chair: Coastal Zone Management Authority and Institute
Members: Senior level government officers, non-governmental stakeholders from
sectors/areas including fisheries, coastal zone management, tourism, water
resources, shipping, environment, finance, academia and energy

MSP Core Team

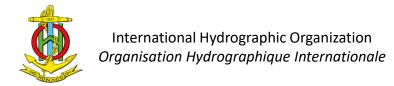
Blue Bonds & Finance Permanence Unit, Coastal Zone Management Authority and Institute, Fisheries Department, Ministry of Blue Economy and Civil Aviation, The Nature Conservancy

Technical Advisory Groups

Technical Working Groups

Energy

Finance and Investment
Fisheries and Aquaculture
Marine and Coastal Development
Marine and Coastal Ecosystems
Maritime Administration
Tourism





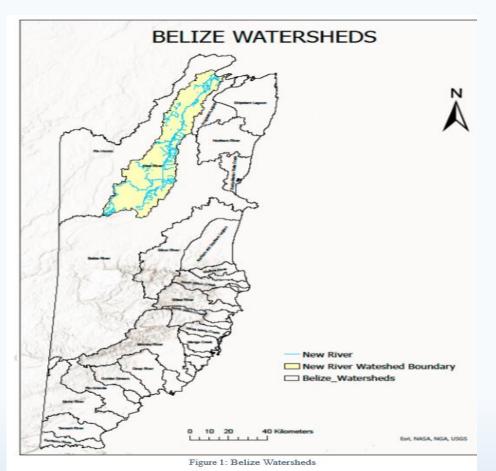


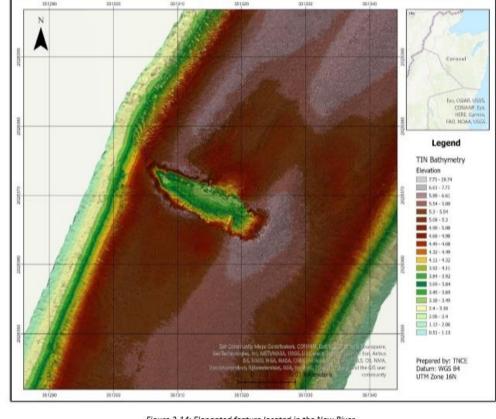




Achievements made in year 2022

1. New surveys conducted in the internal waters of the New River





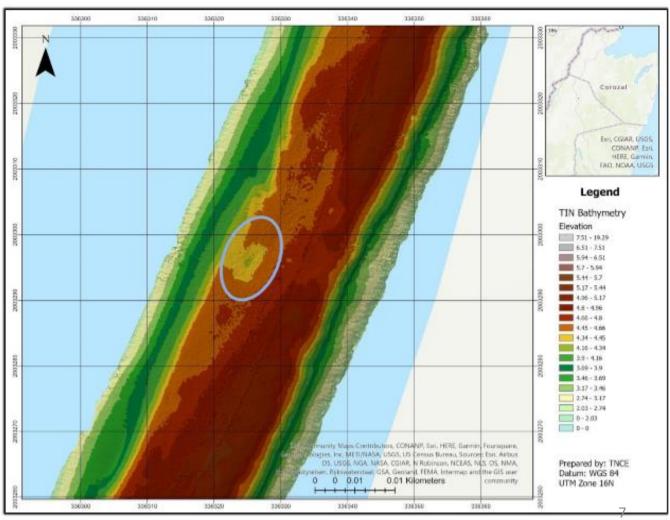






As can be seen in **Figure 2-30**, it can be visibly identified that the Western river wall within this portion of the river extends past the expected center in a sloped formation; and within this sloped feature there is a notable rectangular formation that is settled within the western portion of the river wall at a depth of 4.4-meters (14.4-ft).

Its elevation is only 0.2-meters above its surroundings and is about 6-meters in length and 3-meters in width. It is located in the North-East proximity of Orange Walk Town as can be seen in **Figure 2-31**.



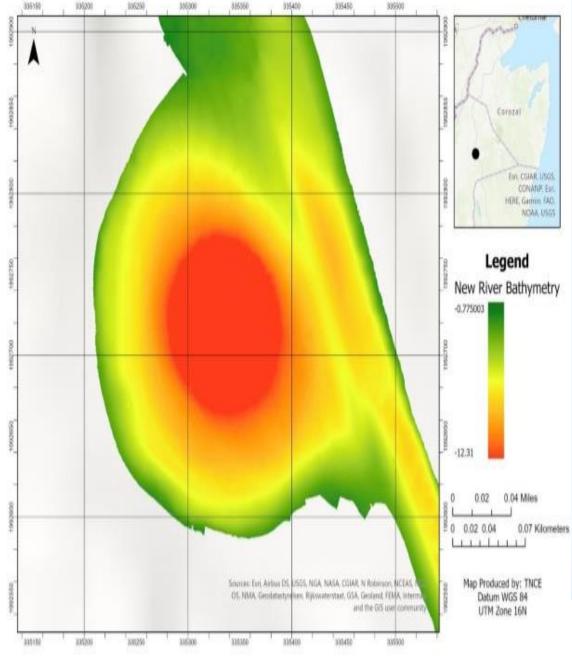
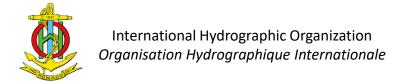


Figure 2-30: Mound-like Feature (4th) nearer to Orange Walk Town

Belize through the UKHO was able to share data with GEBCO Seabed 2030 and continues to support this initiative to collect and share survey information

Survey sheets that has been approved for submission to GEBCO

- HI1563 Commonwealth Marine Economy (CME) Belize United Kingdom Hydrographic Office 2018 HI1563 Belize Buzzard Shoals 0-40m 2m SDTP
- HI1563 Commonwealth Marine Economy (CME) Belize United Kingdom Hydrographic Office 2018 HI1563 Belize Buzzard Shoals 38-80m 4m SDTP
- HI1563 Commonwealth Marine Economy (CME) Belize United Kingdom Hydrographic Office 2018 HI1563 Belize Commerce Bight 2m SDTP
- HI1563 Commonwealth Marine Economy (CME) Belize United Kingdom Hydrographic Office 2018 HI1563 Belize Big Creek 2m SDTP
- HI1563 Commonwealth Marine Economy (CME) Belize United Kingdom Hydrographic Office 2018 HI1563 Belize City 2m SDTP
- HI1553 Commonwealth Marine Economy (CME) Belize United Kingdom Hydrographic Office 2019 HI1553 Belize Lidar 2m SDTP





Challenges in conducting and receiving hydrographic survey data:

 Belize seeks to acquire survey information that extends into our EEZ so as to extend our enforcement and to help assess and quantify the natural resources

that lies beneath the sea.

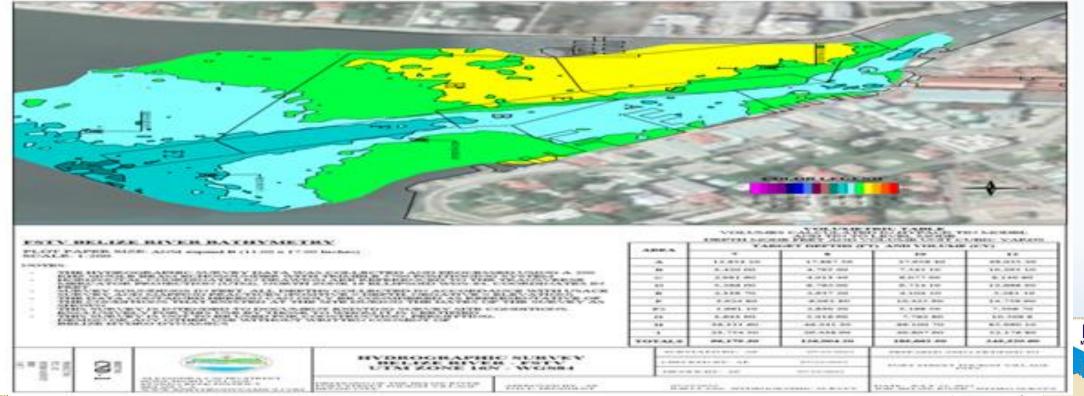
It has been confirmed that survey
 data exist in the industry sector and
 also data as restricted information.
 It is hopeful that existing data can be
 Identified, declassified and shared.





Challenges

 The cruise ship passenger terminal on a yearly basis sees increased siltation that requires extensive dredging for the safe passage of tender vessels servicing the cruise ships. This is a yearly challenge to fine the resources to meet the demands of the cruise ship arrival during high season of November to April each year. Increasing the time period to conduct maintenance dredging is the Authority's challenge.

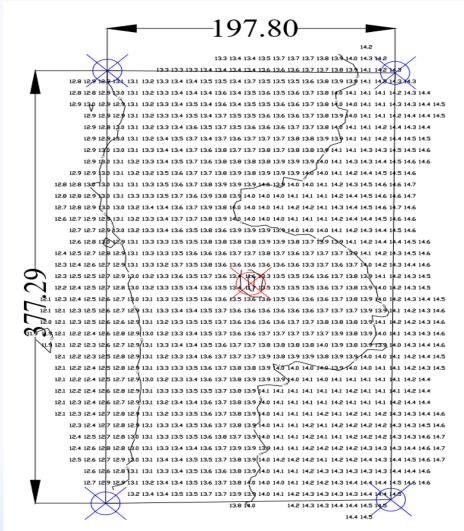




In 2022 a vessel casualty involving a push tug and a steal barge resulting in the steel barge submerging and now resting on the sea floor is being classified as a risk to navigation. The Belize Port Authority is requiring the owners to remove vessel from the position it rest due to the proximity to the Big Creek Access Channel and anchorage area.











Challenges

• Owners not having the rite equipment to salvage the submerged barge is requesting for approval to have barge remain in the sunken position but with the increase in vessel size and calls to that port facility it is foreseen barge posing a serious risk to navigation even with proper demarcation identifying its location.

Chart correction showing wreck





Continued Challenges faced by the Belize Port Authority



- The Authority is unable to conduct our own independent surveys due to lack of survey equipment. (support needed to acquire a Multi beam system with the training associated with it)
- 2. Communication coverage for our priority Area 1.(additional repeater system needed)
- 3. Acquiring a buoy tender for efficiency and safety in carrying out ATON maintenance. (vessel platform)



Future Initiative: Mooring buoy installation has started with a pilot project in southern Belize where five mooring buoy with 60 ton holding capacity available.

15 additional mooring buoys will be installed in 2023

Placencia Harbor Mooring 1 and 2

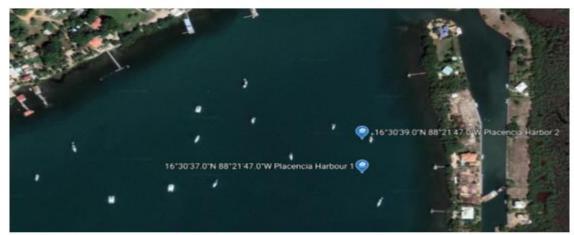


Figure 12: Placencia Harbor Moorings 1 and 2



Description	Details			
G.P.S coordinates	N 16 ° 30′ 37.0″ W 88° 21′ 47.0″			
Water depth	30 feet			
Swing radius to nearest shallow	345 feet			
Line scope	30 feet			
Distance to another mooring buoy	200 feet			
Substrate type	Mud/Silt			
Max load Capacity	60 tons			
Harbouring conditions	The area can provide protection from wind direction: North / Northeast/ Northwest/ Southeast			



Figure 10: Lark Caye Mooring 2



Figure 11: Lark Caye Mooring 2 (Different Angle)

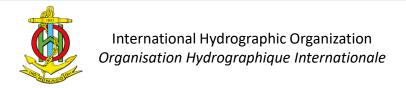




In partnership with the Ministry of the Blue the implementation of the MSP will see more resources placed on information gathering through hydrographic surveys and the placement of navigational markers in key areas for safety of navigation and protection of the environment.

Milestone Number	Milestone Summary Description	Time after signing the Agreement	% of Ocean in High Protection ¹	% of Ocean in Medium Protection ¹	Total % of Ocean in Biodiversity Protection ¹
1	Expand Biodiversity Protection Zones to 11.57% of the Ocean	6 months	Increased to 11.57%	Remains at the current 8.96%	20.53%
2	Designate Public Lands within the BBRRS as Mangrove Reserves	6 months			
3	Belize initiates MSP process	1 year			
4	Expand Biodiversity Protection Zones to 25% of the Ocean	3 years	Add 4.5% more in total across either Medium and/or High zones ¹		25%1
5	Implementation of ICZMP	4 years			
6	Complete Biodiversity Protection Zones, MSP signed in to law and Implemented	5 years	Add 5% more in total across either Medium and/or High zones ¹		30%1
7	At least 3 IUCN Green List Applications Submitted	6 years			
8	Approved Management Plans	8 years			

In all cases, is the lower of the % or the amount specified in the MSP





To be completed Amendment to our legislation 2023



- 1. Repeal and replace the BPA Act
- 2. Marina Regulations
- 3. Draft Marine Pollution Bill (MARPOL)
- 4. Draft STCW Bill with IMMARBE our Flag State



Challenges faced by the Belize Port Authority



1. The Authority still face challenges in receiving reliable information on status of our farthest lighthouse due to inconsistent communication. This pose a problem in disseminating MSI on a timely basis to both the local user and the international merchant marine. To date the Authority has issued five messages through our NAVAREA IV;

I. Message one and two was send on February 7, 2022 - Hunting Caye Light and

II. Glover's Reef South/West Caye Light unlit

III. Message three was send on May 8, 2022 - Glover's Reef Light Restored

V. Message four was send on July 19, 2022 - Dangerous Wreck (Big Creek and Approaches)

/. Message five was send on October 8, 2022 - Hunting Caye Light unlit





MACHC 23 Plenary



- 1. What is your greatest capacity building priority to recommend for IHO CB funding consideration (Phase 1)? (Select one)
 - a) High-level visit (political awareness and buy in into the importance of having hydrographic survey capabilities.
- 2. What is your greatest capacity building priority (Phase 2 or Phase 3) for which to seek other partnership/funding opportunities *outside* of IHO CB?

The Belize Port Authority greatest capacity building priority is to receive training in Category A and Category B Hydrographic studies and to be able to acquire a multibeam hydrographic suite of equipment.







The End

Thank You for your attention!



