



Hydrographic Surveys Past, Present and Future in Jamaica

Presented to:

GEBCO Symposium: Map the Gaps
Busan, South Korea

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GEBCO Symposium: Map the Gaps

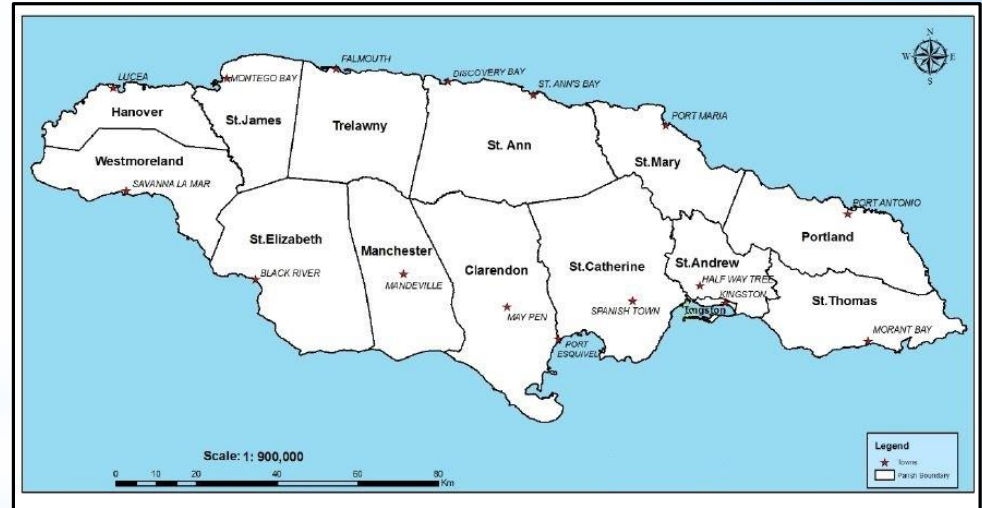
Hydrographic Surveys Past, Present and Future in Jamaica

Presentation Outline

-  The Island of Jamaica
-  Hydrographic Beginnings
-  Post Independence
-  Jamaica's obligations and Current Situation
-  Joint and Proposed Surveys
-  Future Prospects for Hydrography in Jamaica



The Island of Jamaica



Population: 2,881,000

Area: 10,991km²

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1655 - 1962 Jamaica was a
British Colony



The Island of Jamaica

Hydrographic Surveys using
Lead Line by British Directorate
of Surveys

Independence from England
1962



Joint Surveys with Canadian Hydrographic
Office to train Jamaican Surveyors in
Basic Hydrographic Surveying

Two Hydrographic Survey Launches
donated by Canada to Jamaica



Post Independence

1962	Independence from England Hydrographic work by Survey Department
1988	First vessel lost during Hurricane Gilbert
1995	Second vessel decommissioned due to high repair costs
2001	National Land Agency (NLA)- Hydrographic Section
2006	National Hydrographic Committee formed



Jamaica's obligations and Current Situation

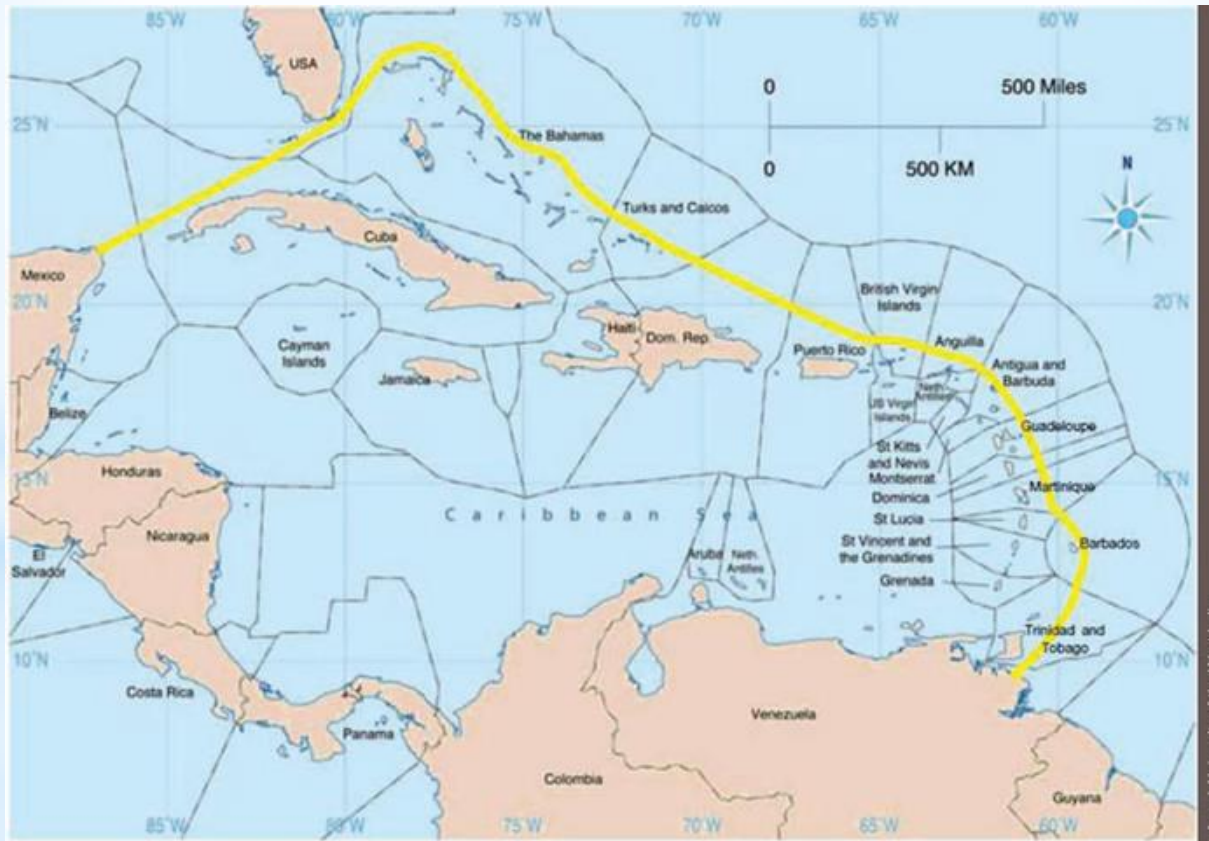
International Hydrographic Organization (IHO) in April 2000

Responsibilities are set out in:

- ✚ United Nations Convention on the Safety of Life at Sea (SOLAS)
- ✚ United Nations Convention on the Law of the Sea (UNCLOS)



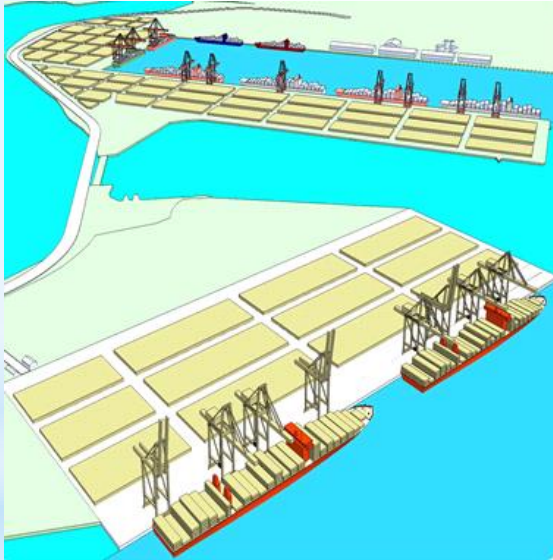
Jamaica's obligations and Current Situation



Exploitation of resources within its EEZ



Jamaica's obligations and Current Situation



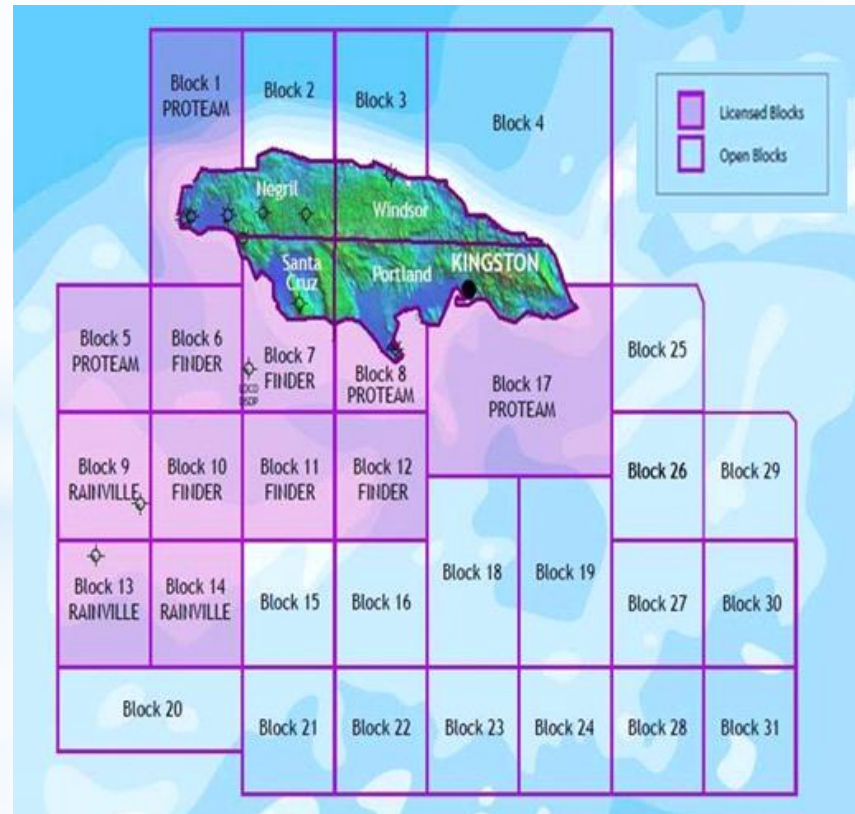
Coastal Engineering

Tourism and Recreation





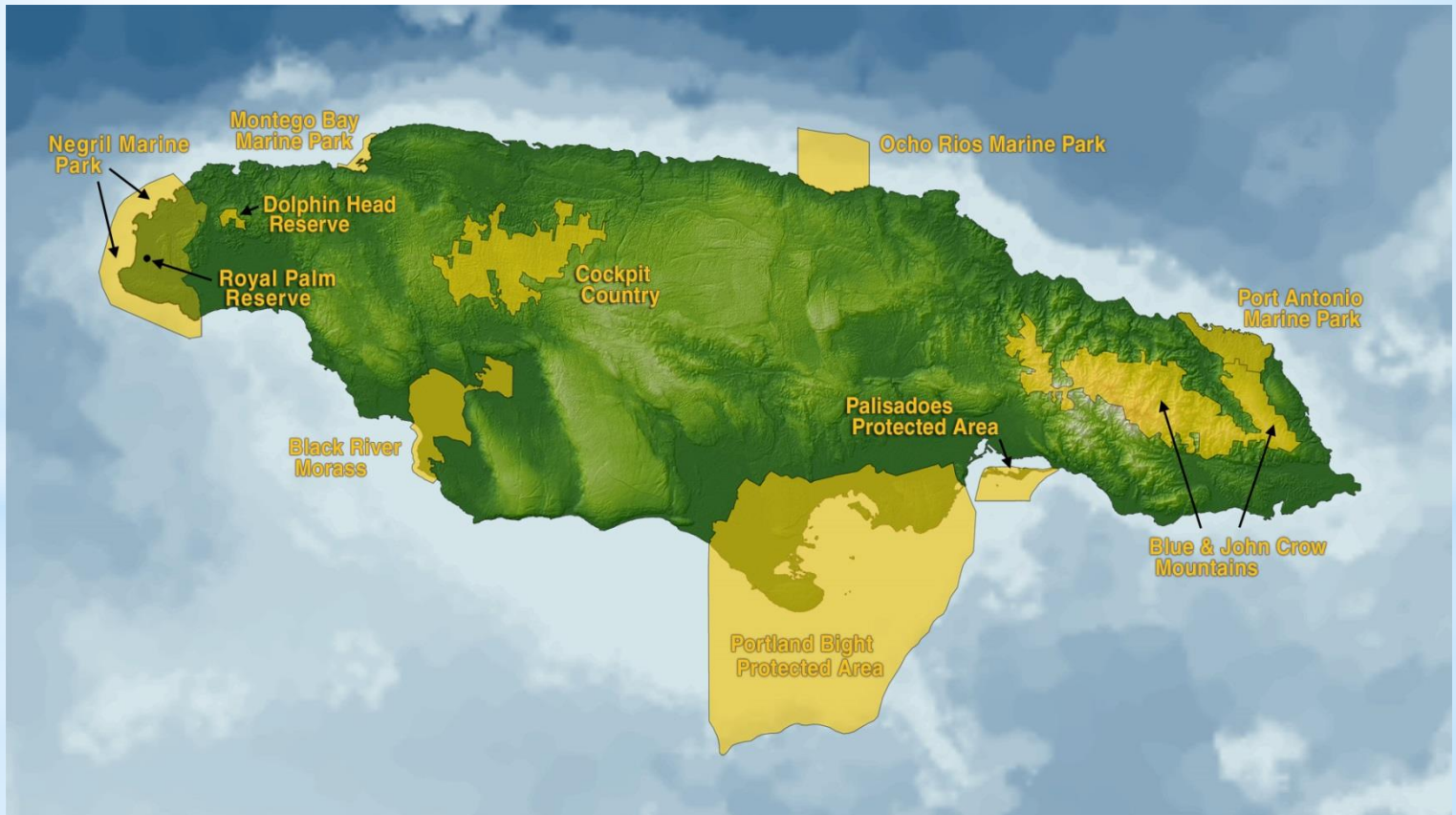
Jamaica's obligations and Current Situation



Oil and Gas Exploration



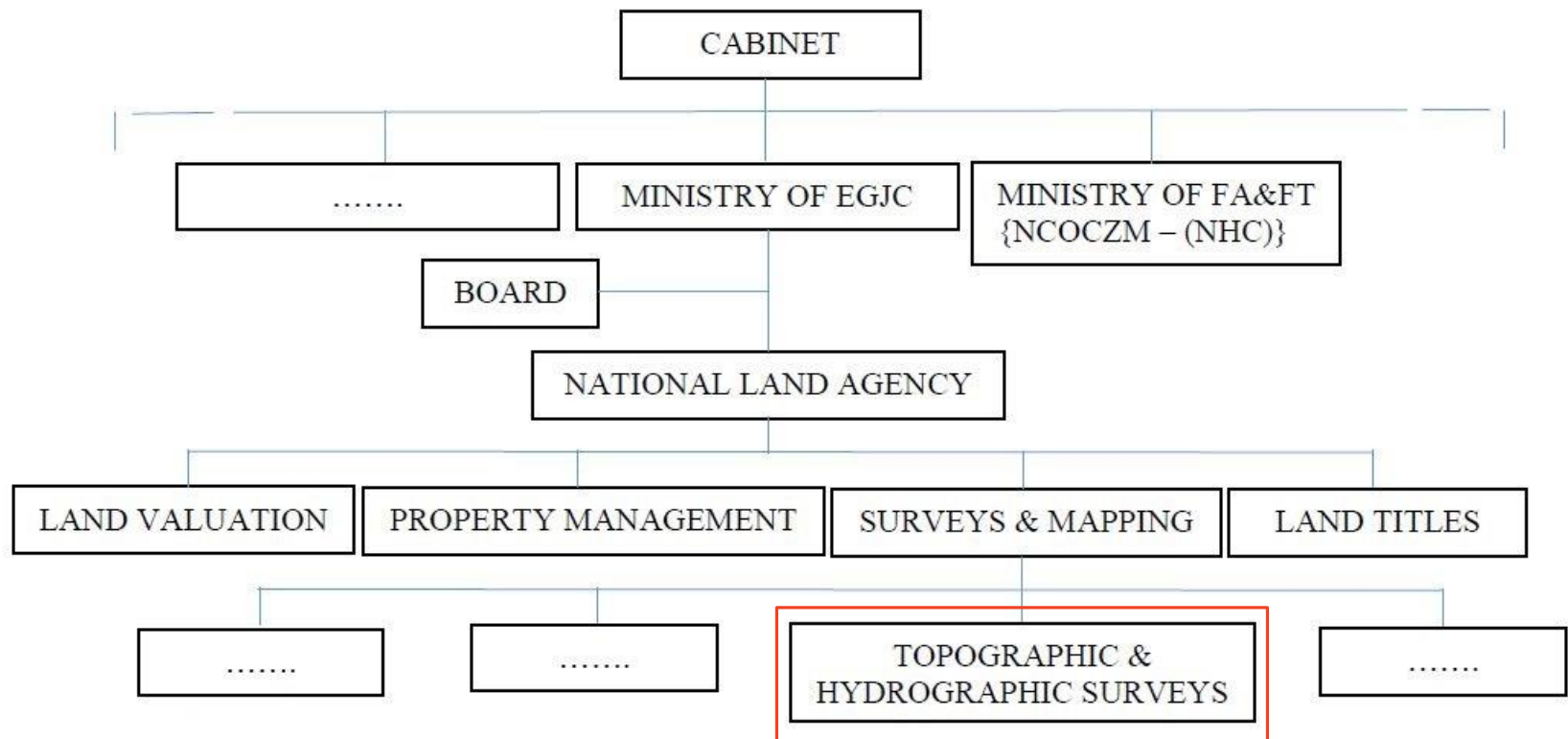
Jamaica's obligations and Current Situation



Management of protected areas



Jamaica's obligations and Current Situation



Location of the Hydrographic Survey Section



Jamaica's obligations and Current Situation

Hydrographic Staff Compliment:

- Chief Hydrographer
- Senior Hydrographer
- Hydrographic Surveyor
- Assistant Hydrographer x2
- Survey Technician (vacant)
- Coxswain (vacant)
- Boatman (vacant)



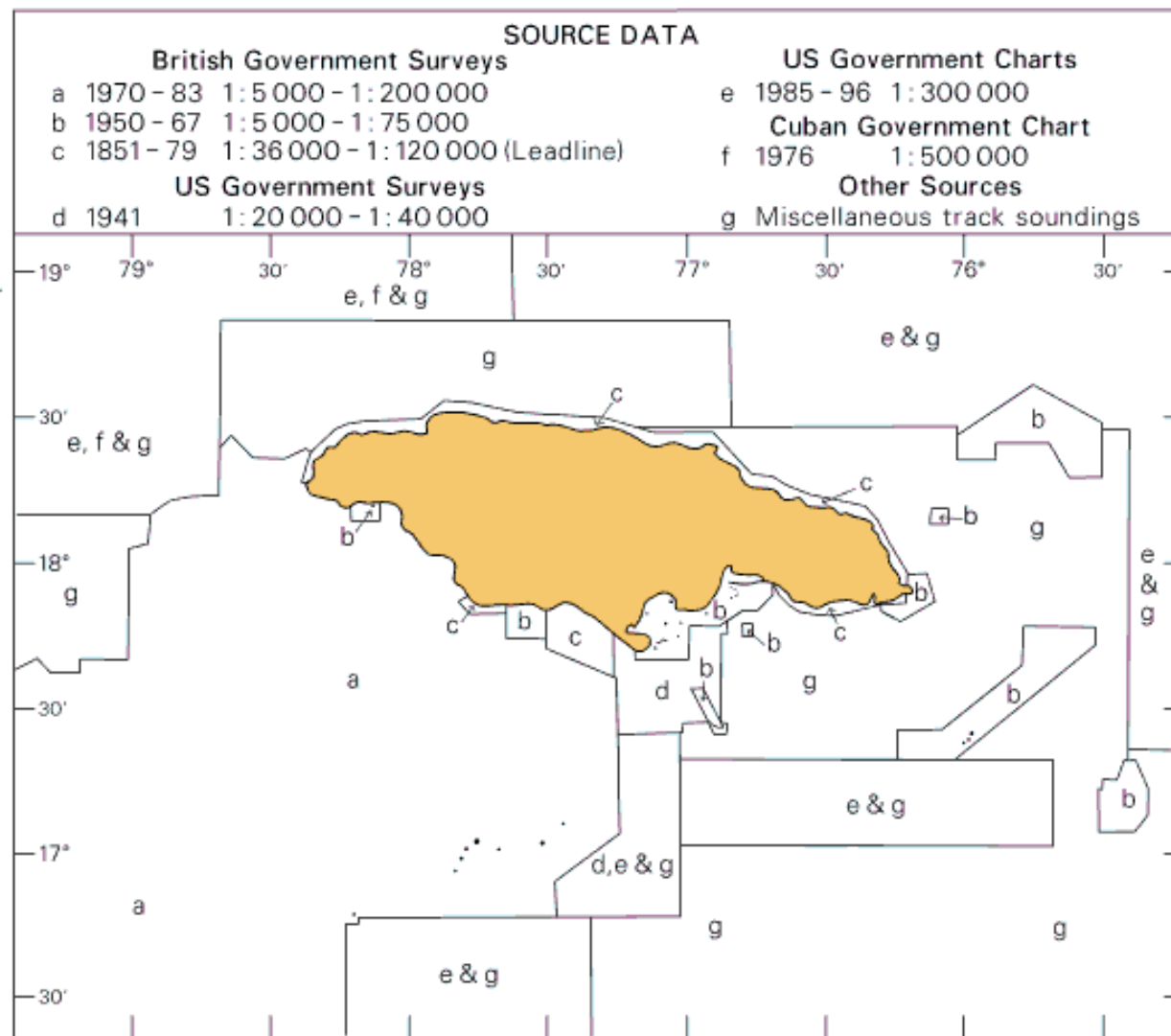
Jamaica's obligations and Current Situation

Equipment and Chart Production:

- ✚ Jamaica's Hydrographic Charts are produced by the UKHO
- ✚ No dedicated survey vessel
- ✚ Single beam Echo Sounder and GNSS receivers
- ✚ Uses Hypack Software
- ✚ No tide gauge or sound velocity profiler
- ✚ No multibeam or side scan sonar



Jamaica's obligations and Current Situation

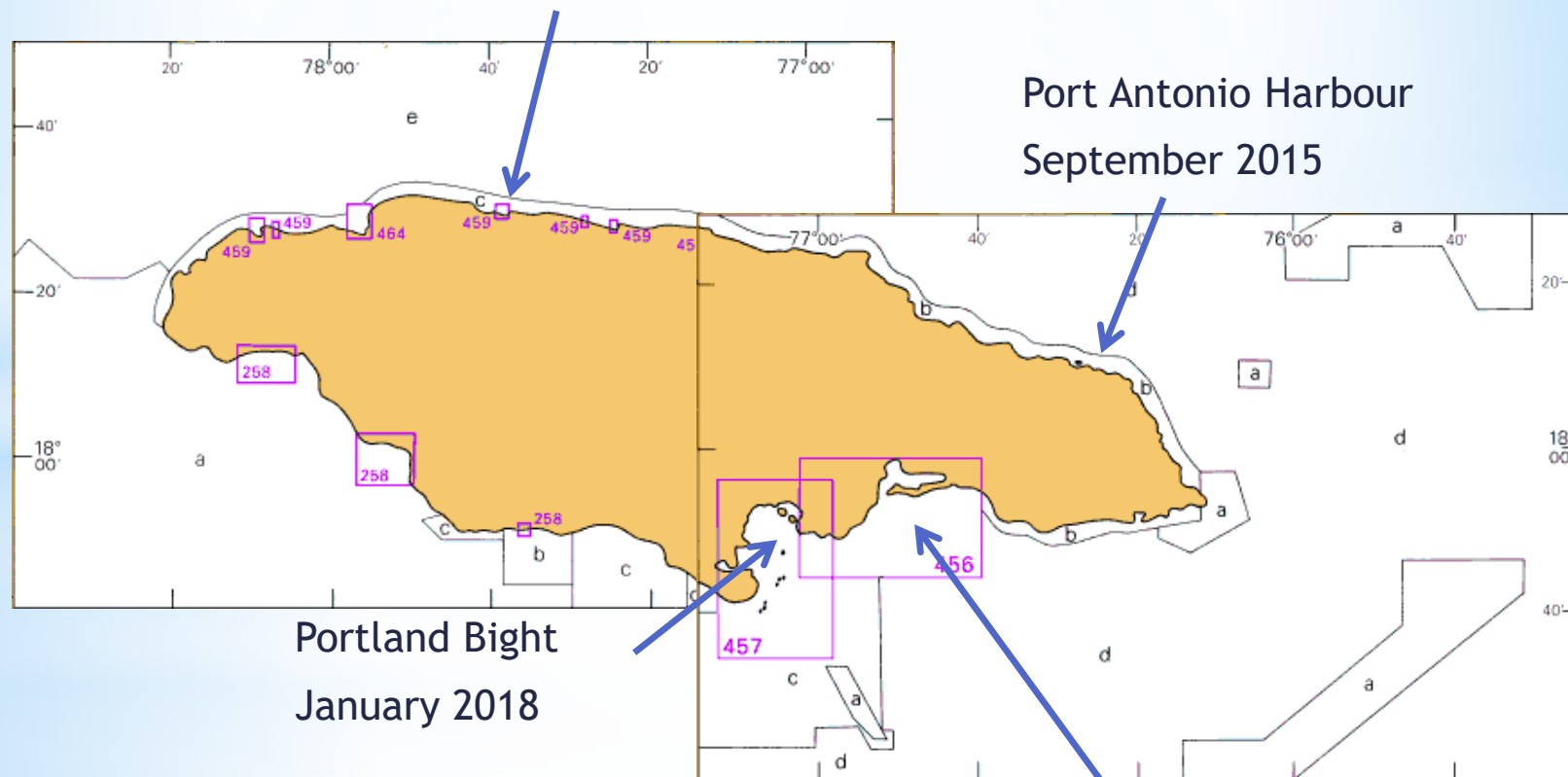




Joint and Proposed Surveys

Falmouth Harbour
October 2015

Port Antonio Harbour
September 2015



Portland Bight
January 2018

Kingston Harbour
November 2017



Future Prospects for Hydrography in Jamaica

Hydrography can be done in a sustainable way when:

- ✚ Policy holders recognize the importance of Hydrographic Data
- ✚ Activities are Mandated by policy changes
- ✚ Stakeholders Pool their resources to fund the work or;
- ✚ Government provides the funding to the NLA

GEBCO Symposium: Map the Gaps

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End of Presentation