



NATIONAL REPORTS FROM THE NETHERLANDS TO THE MACHC18

Executive summary

Satisfactory status for surveying and nautical charting in the MACHC area. The 2017 survey campaign will improve the status of surveying. Efforts to establish maritime boundaries with our neighbouring countries are continuing.

1. Hydrographic Office / Service:

Name of the institution: Hydrographic Service of the Royal Netherlands Navy

Description: Areas of responsibility are the waters of the Kingdom of the Netherlands in the Caribbean. These are the Leeward Islands (Aruba, Curaçao, Bonaire) and the Windward Islands (Sint Maarten, Saba, Sint Eustatius).

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Detailed information to update IHO Publication P-5 (Yearbook) is identical to 2016. A "no change" message is submitted.

2. Surveys:

The total NL responsibility area is divided in four categories, listed in Table 1. The Cat 1 and Cat 2 areas are surveyed using the Mobile Hydrographic System, operated from a RHIB. The system contains a MBES, SSS, SV profiler and uses ERS techniques for horizontal and vertical positioning.

Cat 1	0-40 m	Harbours and approaches	every 4 years
Cat 2	0-40 m	Coastal areas on South and West coasts not covered by Cat 1	every 12 years
Cat 3	0-200 m	All areas up to 200 m not covered by Cat 1 and 2	every 24 years
Cat 4	> 200 m	All areas deeper than 200 m	every 50 years

Table 1: categories for hydrographic surveys in the Caribbean waters of the Kingdom of the Netherlands

Detailed information about surveys to update C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) will be submitted when the 2017 campaign has been processed. The 2016 survey campaign has a negligible influence on the C-55 percentages.

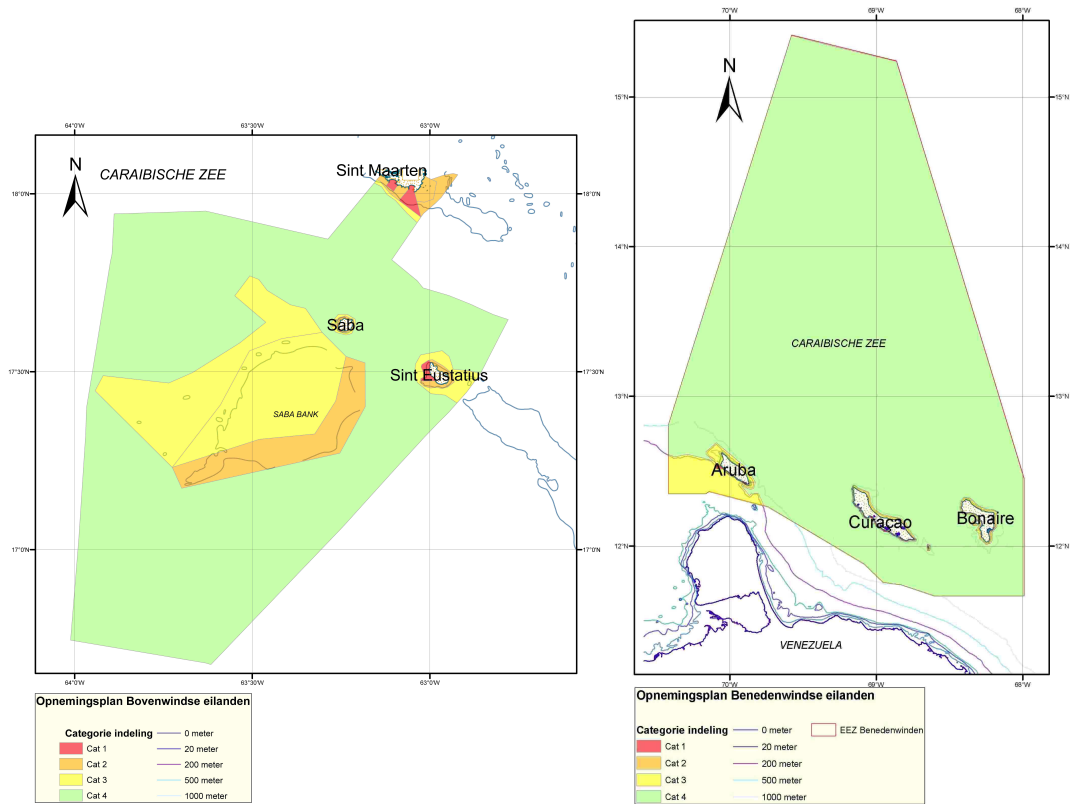


Figure 1: Survey Policy for the Windward Islands (left) and Leeward Islands (right).

3. New charts & updates:

Full ENC coverage for all appropriate usage bands. UK and FR are producer nations for the overview and general usage bands. As of August 2017, Venezuela has produced own Cells VE300100 and VE300200. Cell NL302023 has been clipped accordingly.

4. New publications & updates:

Not applicable; UK, FR and US promulgate nautical publications of NL waters.

5. MSI

The national self-assessment of MSI is submitted as Annex to this report as detailed in IHO Resolution 2/1997.

6. C-55

The table with the latest information to update IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) will be provided when the 2016 and 2017 survey campaigns have been processed.

7. Capacity Building

Training needed: not applicable

Training offered: practical traineeship on board NL survey vessels

In accordance with our expired Memorandum of Understanding, the Maritime Authority of Suriname (MAS) and NLHO cooperate in the production of yearly Tide Tables for Suriname.

8. Oceanographic activities

Not applicable

9. MSDI Progress

NL offers an INSPIRE-compliant webservice for its geographic names and gridded bathymetric data of the Caribbean Sea, which will become available in the INSPIRE harmonized data format in 2018. See Table 2 for the URLs. It is our intention to start up additional INSPIRE harmonized web services for the Caribbean Sea, for administrative units (maritime zones) and area management (PSSA Sababank). Currently, these data sets are available for download from www.hydro.nl. Also, the Netherlands ENC's for the Caribbean Sea are available for online viewing in the MACHC ENC Online application.

data set	name	URL
Geographic names at sea and large internal waters	INSPIRE View Service:	https://inspire.caris.nl/server/services/ows/view/map/namen-carib_IVS
	INSPIRE Download Service:	https://inspire.caris.nl/server/services/ows/download/feature/namen-carib_IDS
Representative Bathymetric data set ("RBB")	INSPIRE View Service:	https://inspire.caris.nl/server/services/ows/view/map/bathymetrie-carib_IVS
	OGC WCS:	https://inspire.caris.nl/server/services/ows/wcs/bathymetrie-carib_WCS

Table 2: URLs for web services in the Caribbean waters of the Kingdom of the Netherlands

10. Other activities

Disaster relief:

In reaction to hurricane Irma, a hydrographic survey crew was deployed in Sint Maarten, Saba and Dominica as part of a humanitarian tasking of HNLMS Karel Doorman. All data and results will be made available to the MACHC community, through our web services (Table 2) and upon request.

Survey results in retrospect:

- Most frequently used system MBES;
- SSS less used due to the expeditionary character;
- ERS provided a stable height reference;
- Coupling of ERS reference to chart datum via predicted tide;
- Good SV profile is vital for small vertical uncertainty;
- Bathymetry within IHO S-44 special order standard.

A collection of photos and DTMs of the surveys is presented in a separate Powerpoint-presentation.

Participation in IHO bodies:

Assembly; Council; HSSC; IRCC; ENCWG; DQWG; NCWG; NIPWG; MSDIWG; S-100WG; TWCWG; S-44 PT; S-121 PT.

Participation in RENC:

NLHO is IC-ENC member; the Director of the Netherlands Hydrographic Office is currently chairman of IC-ENC.

Regional hydrographic commissions:

The Netherlands is also a member of the North Sea Hydrographic Commission.

UN-GGIM:

The Director of the Netherlands Hydrographic Office intends to actively participate in the activities of the UN-GGIM Marine Geographic Information Working Group (MGIWG).

Maritime boundaries:

The situation is shown in Figure 2. Parliamentary Committee on Foreign Affairs approved the all-purpose maritime boundary between the Kingdom of the Netherlands and the French republic. The treaty has not yet been ratified.

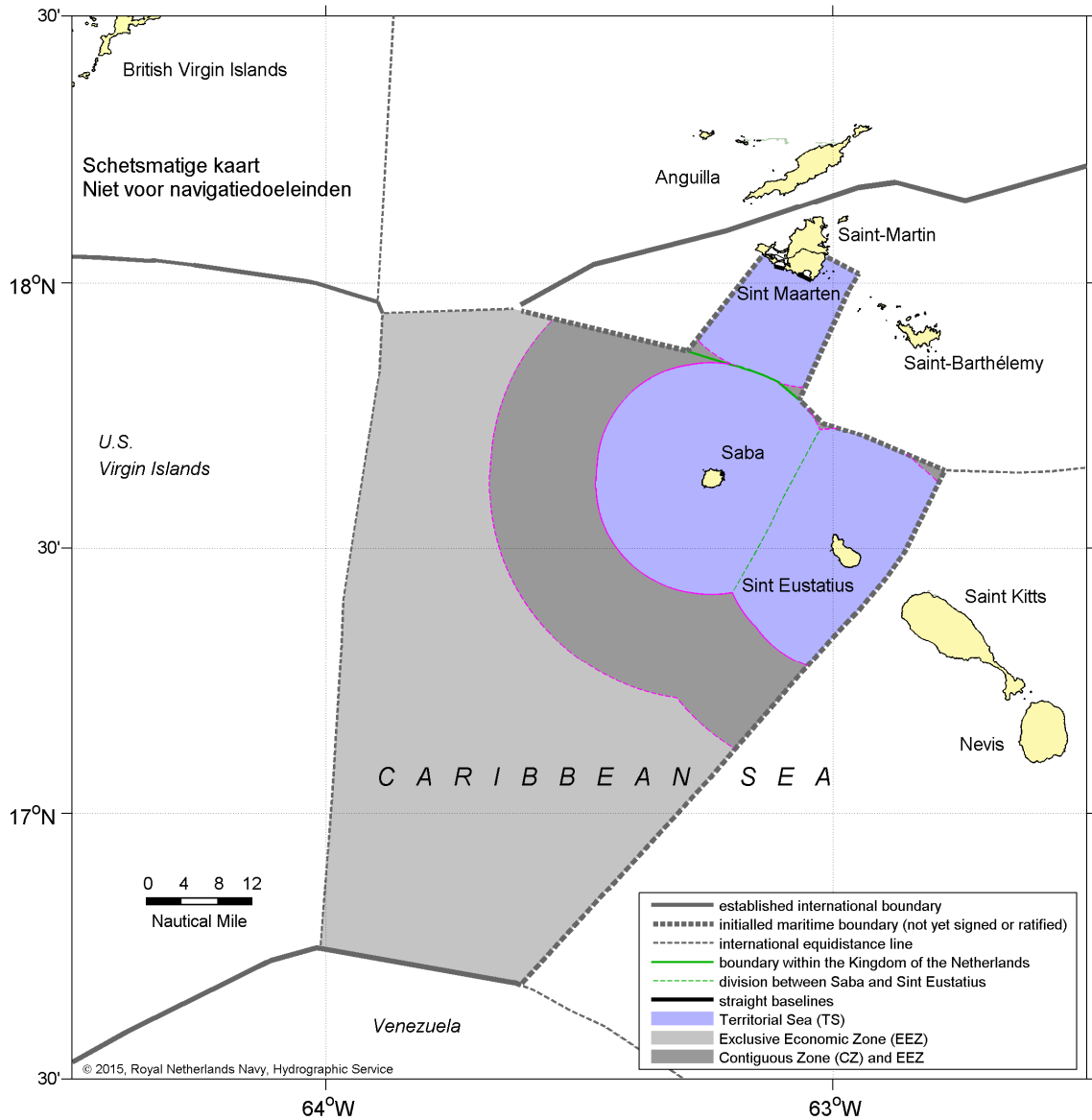


Figure 2: initialled maritime boundary with Saint Kitts & Nevis (2014) and parliamentary committee approved maritime boundary with France (2015), given by the thick dotted lines

11. Summary Statement

Satisfactory status for surveying and nautical charting in the MACHC area. The 2016 and 2017 survey campaigns will improve the status of surveying. Efforts to establish maritime boundaries with our neighbouring countries are continuing.

National MSI Self-Assessment

Curacao

Dutch Caribbean Coast Guard

JRCC

1. Maritime area

The TTW and EEZ of the Dutch Caribbean islands Aruba, Curacao, Bonaire (ABC) and Saba, St Eustatius and St Maarten (SSS) as well the SRR in the middle of the Caribbean Sea.

GMDSS region classified as A2 area and under coverage of Inmarsat satellite for communication, distress and safety messages like EGC (enhanced Group Cell).

2. Operational Points of Contact for the National Coordinator

INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
JRCC	0059994637700	0059994637950	rcc.curacao@mindef.nl

3. GMDSS Master Plan

All required GMDSS up to date and daily checked.

INMARSAT-C (AOR-W + E, NAVTEX, VHF/UHF/HF radio telephony (including Emergency and shipping international channels), DSC VHF/MF, Satellite communication/iridium, telephone alarm number 913, COSPAS/SARSAT local user terminal via US MCC to JRCC Curacao, all equipment 24/7 monitored. Additionally SAROPS search and rescue panning and prediction program.

Equipment Type for Ports and Local Area	Software Version	Date of Up-date
<i>VHF ABC and SSS islands port/ATC authorities</i>		<i>2015</i>

Average depending cases:

Year Y-2		Year Y-1		Year Y	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
<i>01</i>	<i>30 Mins</i>	<i>01</i>	<i>30 Mins</i>	<i>x</i>	<i>xx.x Mins</i>

4. NAVTEX Coverage:

AREA H (IV) – VHF/UHF/MF – Navigational, Meteo and all desired urgency broadcasts. MMSI 430600099

5. Operational Issues:

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6. Contingency Planning

New VHF/UHF radiotelephony network installed on Leeward Caribbean islands.

New VHF/UHF radiotelephony network planned on Windward Caribbean islands.

7. Capacity Building

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8. Other Activities

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9. National Maritime Website

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10. Recommendations

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11. Summary

JRCC Curacao

INMARSAT C MMSI 430600099

DSC VHF/MF MMSI 003061000

Telnr 0059994637700

rcc.curacao@mindef.nl

24/7 monitor all GMDSS including all shipping&aircraft related COSPAS/SARSAT