MESOAMERICAN AND CARIBBEAN SEA HYDROGRAPHIC COMMISSION
11th Meeting, Surinam, 08-12 November 2010
NATIONAL REPORT – VENEZUELA

1. Hydrographic Office /Service:	Hydrography and Navigation Service (DHN)
2. Surveys:	**Coverage of new surveys:** during the last year, the Venezuelan Navy conducted the following Hydrographic activities: **DHN: Hydrography and Navigation Service** • Planning the 3rd Hydrographic Expedition to Antarctic Continent. • Hydrographic Survey of La Orchila Island Bay • Bathymetric and geomorphologic survey with side scans sonar of La Orchila Island Bay. • Topographic survey for the area to build the Güiria Lighthouse. **EHPF: Punto Fijo Hydrographic Station** • Topographic survey to update the coastline of the Maracaibo Lake. • Bathymetric and topographic surveys around the: - Los Monjes Island. - Punta Cardón **EHPC: Puerto Cabello Hydrographic Station** • Hydrographic survey of "Tucacas" National Park. • Topographic and bathymetric survey to update the coastline NW of Puerto Cabello. • Bathymetric revision on: - La Guaira Port. - Ensenada Morón to Cata **EHPAM: Pampatar Hydrographic Station** • Bathymetric verification of Porlamar. • Hydrographic survey of: - Guanta Bay, - Pertigaletes. - Puerto La Cruz. **BO-11: Ship R/V "PUNTA BRAVA"** • Hydrographic survey of Campo Dragón (north of Península de Paria), for the service of the Venezuelan Petroleum National Company (PDVSA).

	LH-12: Ship "LELY" • Hydrographic survey from buoys 27 to 94 of the Maracaibo lake channel. • Hydroceanographic survey of "Morrocoy" National Park. • Bathymetric and geomorphologic survey with side scans sonar of La Orchila Island Bay. **LH-11: Ship "GABRIELA"** • Orinoco River Hydrographic Survey: - San Félix. - Palúa - Ferrominera.
3. New charts & updates:	3.1) **There were the new paper charts edited**: • DHN-321 San Félix. • DHN-601 Palúa • DHN-508 Ferrominera • Actualization of Bolívar City. 3.2) **ENC cells produced**: • VE500401 La Tortuga • VE500305 Approximation to la Guaira • VE500303 Puerto Cabello • VE300700 Delta del Orinoco
4. New publications & updates:	4.1) New Publication - DHN/2010, "Nautical Almanac". 4.2) Updated publications: - List of Lights DHN (currently in production 2011). - Tide of Table Venezuelan coast 2010 and 2011. - Nautical Chart Catalogue. - Sailing chart. (Currently in production 2011).
5. MSI	N/A

SERVICE	Yes	No	Partial	NOTES
LOCAL WARNINGS		X		
COASTAL WARNINGS		X		
NAVAREA WARNINGS		X		
INFORMATION ON PORTS AND HARBOURS		X		

GMDSS IMPLEMENTATION (IMO Publication 970 - GMDSS Handbook)

SERVICE	Yes	No	Partial	NOTES
Master Plan		X		
A1 Area		X		
A2 Area		X		
A3 Area		X		
NAVTEX		X		
SafetyNET		X		

6. Publication S-55:

1. HYDROGRAPHIC SURVEYING

1.1 Status of hydrographic survey of all navigable waters, including internal waters, out to the limits of the EEZ:
Survey coverage, where:
A = percentage which is adequately surveyed.
B = percentage which requires re-survey at larger scale or to modern standards.
C = percentage which has never been systematically surveyed

	A	B	C
Depths < 200m	20	70	10
Depths > 200m	10	90	0

Amplifying information: The concept of EEZ is not applicable

2. NAUTICAL CHARTING

If you do have a nautical charting capability, complete the details below:
2.1 Status of nautical charting within the limits of the EEZ
Coverage of charts published by your organization, where:
A = percentage covered by INT series, or a paper chart series meeting the standards in M-4.
B = percentage covered by Raster Navigational Charts (RNCs) meeting the standards in S-61.
C = percentage covered by ENCs meeting the standards in S-57.

Purpose/Scale	A		B		C
	INT	National series	INT	National series	
Offshore passage/Small	-	100	N/A	N/A	80
Landfall and Coastal passage/Medium	-	100	N/A	N/A	60
Approaches and Ports/Large	-	90	N/A	N/A	40

7. Capacity Building

a) Training needed:

- Multibeam Workshop.
- Hydrographic Surveys on Rivers. And
- ENC's production.

b) Training and courses offered:

COURSE	DESCRIPTION	DURATION	REQUIREMENTS
Hydrography Survey Course	To qualify the student to be a technician in Hydrography and Navigation issues. Contents: Cartography, Geodesy, Tides, Hydrographic Surveys and processing, and Practical Hydrography.	2 weeks	Elementary school
Masters in Hydrography	To increase the capacity of the student to be a technician in Hydrography and Navigation. Contents: Hydrographic Surveys and processing, Oceanography, Marine Cartography, Topography Meteorology, Navigation, Cartography, Geodesy, Tides, Topography and Practical Hydrography.	24 months	Marine Science

c) Projects under development:

d) Others:

For the DHN staff capacity building program the following courses were conducted:

<u>In Venezuela</u>:

1) Masters in Hydrography.
2) Course in Hydrometeorology.
3) Course in Paper and Electronic Nautical Charts with CARIS HPD software.

<u>Overseas:</u>

1) ENC training offered by the UKHO.

2) Satellite Image Interpretation.
3) Hydrography and Oceanography Courses in Italy and Chile.

8. Oceanographic activities	1. Oceanographic survey of Archipelago los Roques, Orinoco River and Bolivar City. 2. Oceanographic survey of Orchila Island. 3. Oceanographic survey of Oricao Bay. 4. Oceanographic survey of Aves Island.
9. Other activities	N/A
10. Conclusions	Venezuela continues to participate and cooperate in the field of hydrography with other Members of the Meso American and Caribbean Sea Hydrographic Commission.