

MESOAMERICAN AND CARIBBEAN SEA HYDROGRAPHIC COMMISSION
 12th Meeting, December 2011
NATIONAL REPORT – VENEZUELA

1. Hydrographic Office /Service:	HYDROGRAPHY AND NAVIGATION SERVICE (DHN)
2. Surveys Made 2011:	<p>Coverage of new surveys: during the last year, the Venezuelan Navy conducted the following Hydrographic activities:</p> <p>DHN: Hydrography and Navigation Service</p> <ul style="list-style-type: none"> • 4th Hydrographic Expedition to Antarctic Continent, Completed. • 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. <p>EHPF: Punto Fijo Hydrographic Station</p> <ul style="list-style-type: none"> • Verification and validation of the coastline in the Maracaibo Lake, (by Geodesy and Topography). • Verification and validation surveys around the: Los Monjes Island, Punta Cardón (by Geodesy and Topography). <p>EHPC: Puerto Cabello Hydrographic Station</p> <ul style="list-style-type: none"> • Hydrographic survey of “Tucacas and Chichiriviche” inside Morrocoy National Park. <p>EHPAM: Pampatar Hydrographic Station</p> <ul style="list-style-type: none"> • Bathymetric verification of Porlamar. • Hydrographic survey of: Guanta Bay, Pertigaletes. Puerto La Cruz. <p>BO11: Ship R/V “PUNTA BRAVA” •</p> <ul style="list-style-type: none"> • Hydrographic survey of Campo Dragón (north of Península de Paria), for the service of the Venezuelan Petroleum National Company (PDVSA), institutional support. <p>LH12: Ship “LELY”</p> <ul style="list-style-type: none"> • 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. <p>LH11: Ship “GABRIELA”</p> <ul style="list-style-type: none"> • Orinoco River Hydrographic Survey: San Félix. Palúa - Ferrominera.
3. New charts & updates	<p>New paper charts edited:</p> <ul style="list-style-type: none"> • DHN9601A Puerto San Félix a Palua • DHN9701A Ferrominera • Update of DHN9311A Ciudad Bolívar <p>ENC cells produced:</p> <ul style="list-style-type: none"> • VE500401 La Tortuga (on process) • VE500305 Approximation to la Guaira (available) • VE500303 Puerto Cabello (on process)

	<ul style="list-style-type: none"> • VE300700 Delta del Orinoco (on process)
4. New publications & updates (on process for 2012)	<ul style="list-style-type: none"> • New Publication DHN/2011, "Nautical Almanac". • 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

	Yes	No	Partial	NOTES
LOCAL WARNINGS	X			48
COASTAL WARNINGS	X			
NAVAREA WARNINGS	X			
INFORMATION ON PORTS AND HARBOURS	X			

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

GMDSS IMPLEMENTATION (IMO Publication 970 GMDSS Handbook)

6. Publication S55

1. Hydrographic Surveying

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 resurvey at larger scale or to modern standards.

C = percentage which has never been systematically surveyed

	A	B	C
Depths < 200m	30	60	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:

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 M4.

B = percentage covered by Raster Navigational Charts (RNCs) meeting the standards in S61.

C = percentage covered by ENC's meeting the standards in S57.

	A		B		C
	INT	National series	INT	National series	
Offshore passage/Small		100	N/A	N/A	
Landfall and Coastal passage/Medium		100	N/A	N/A	
Approaches and Ports/Large		90	N/A	N/A	

7. Capacity Building

a. Training needed

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

	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

b. Training and courses offered.

c. Projects under development

d. Others: For the DHN staff capacity building program the following courses were conducted in Venezuela:

Overseas:

1) ENC training offered by the UKHO

Masters in Hydrography
Course in Hydrometeorology
Course in Paper and Electronic Nautical Charts with CARIS HPD software

2) Satellite Image interpretation

3) Hydrography and Oceanography Courses in Italy and Chile.

Projects to continue data processing:

- Oceanographic survey of Archipelago los Roques, Orinoco River and Bolivar City.
- Oceanographic survey of Orchila Island.
- Oceanographic survey of Oricao Bay.
- Oceanographic survey of Aves Island.

8. Conclusions

Venezuela continues to participate and cooperate in the field of hydrography with other Members of the Meso American and Caribbean Sea Hydrographic Commission.