



## INTERNATIONAL HYDROGRAPHIC ORGANIZATION

### NATIONAL REPORTS FROM [Republic of Panama] TO THE [RHC]-[17th]

Reference: IHO Resolution 2/1997 as amended

#### Executive summary

#### 1. Hydrographic Office / Service:

- a) Description: The hydrographic Department has being conceptualized inside the Panama Maritime Authority. Currently all the hidrografic surveys are done by the Engineering Department and through third parties or outsource services by private companies.
- b) Name of the institution: Panama Maritime Authority
- c) Submitted by: Eng. Adalberto Alguero

Detailed information for the IHO Publication P-5 (*Yearbook*) is submitted in Annex A.

#### 2. Surveys:

- a) Coverage of new surveys: All National coastal areas for commercial, pleasure and transportatios navigation.
- b) New technologies and /or equipment: None, we are at the buyong process through an agreement with UNKHO
- c) New ships: None
- d) Problems encountered: Expensive equipments, budget assignment.

Detailed information about surveys for the IHO Publications P-5 (*Yearbook*) and C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annexes A and B, respectively.

#### 3. New charts & updates:

##### a) ENCs

PA3AM496 Base issued 15/12/15	Covers GB2496 Punta Mala to Punta Bunica
PA3AM929 Base issued 15/12/15	Covers GB1929 Gulf of Panama
PA4AM056 Base issued 29/01/16	Covers GB56 Bahia Almirante
PA4AM055 Base issued 15/12/15	Covers GB55 Laguna de Chiriqui
PA4AM493 Base issued 15/12/15	Covers GB2943_C Puerto Amuelles and Characo Azul
PA5AM400 Base issued 29/01/16	Covers GB1400_1 Puerto De AL Bahia De Las Minas
PA5AM56B Base issued 29/01/16	Covers GB0056_2 Bocas del Toro
PA5AM56A Base issued 15/12/15	Covers GB0056_1 Bocas del Drago

- b) ENC: Distribution method  
UKHO: and resellers
- c) RNCs  
IC ENC
- d) INT charts
- e) National paper charts  
Resellers
- f) Other charts, e.g. for pleasure craft
- g) Problems encountered: Lack of Training, Budget, and Bareer Language for technicians

Detailed information about charting for the IHO Publications P-5 (*Yearbook*) and C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annexes A and B, respectively.

- 4. New publications & updates:  
[Describe the developments in nautical publications related to the items below]
  - a) New Publications
  - b) Updated publications
  - c) Means of delivery, e.g. paper, digital
  - d) Problems encountered

Detailed information for the IHO Publication P-5 (*Yearbook*) is submitted in Annex A.

- 5. MSI  
[Describe the status of Maritime Safety Information (MSI) related to the items below]
  - a) Existing infrastructure for transmission: We use the Navarea Coordinator that is US through NGA.
  - b) New infrastructure in accordance with GMDSS Master Plan
  - c) Problems encountered

Detailed information about MSI for the IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annex B. The national self-assessment of MSI is submitted in Annex C.

- 6. C-55  
The table with the updated information for the IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is provided in Annex B.

- 7. Capacity Building Offer of and/or demand for Capacity Building  
Training received, needed, offered:

- a) **ADQUISICION Y PROCESAMIENTO DE DATOS BATIMETRICOS MULTHAZ**, en el [Centro de Capacitación Ascanio Arosemena](#), Ciudad de Panamá del 5 al 9 de Octubre 2015(CARIS y KONGSBERG)
- b) **INTERNATIONAL ENC VALIDATION TRAINING COURSE**, in Panama Canal Authority Training Centre Panama City, Panama del 14 al 25 de septiembre 2015(IC-ENC)
- c) **PROGRAMA DE FAMILIARIZACION HIDROGRAFICA Y CARTOGRAFICA**, en la Autoridad del Canal de Panamá del 13 de julio al 7 de agosto 2015.

- d) **TALLER FORTALECIMIENTO DE CAPACIDADES HIDROGRÁFICA EN MESOAMÉRICA Y MAR CARIBE**, en Veracruz, Mexico del 1 al 4 de diciembre 2015
  - e) **III CONVENCION MEXICANA DE HIDROGRAFIA Y TALLER DE BATIMETRIA**, Ciudad del Carmen, Campeche, MEXICO del 27 al 19 de abril de 2016
  - f) **CURSO SIVCE – SISTEMAS DE VISUALIZACIÓN DE CARTAS NAUTICAS ELECTRÓNICAS, CARTAGENA, COLOMBIA, DIMAR. 2016.**
  - g) Status of national, bilateral, multilateral or regional development projects with hydrographic component. (In progress, planned, under evaluation or study). Currently in place a Binational Agreement with UKHO.
  - h) Definition of bids to IHO/CBSC
8. Oceanographic activities: NONE. Oceanographic activities are functions of other Dependency -
- a) General
  - b) GEBCO/IBC's activities
  - c) Tide gauge network: Panama Canal Authority provides tides of boths coast.
  - d) New equipment
  - e) Problems encountered
9. Other activities
- a) Participation in IHO Working Groups: Panama is not currently part of IHO.
  - b) Meteorological data collection: None, are functions of other Dependency. ETESA
  - c) Geospatial studies: None, are functions of other Dependency
  - d) Disaster prevention: None, are functions of other Dependency. SINAPROC
  - e) Environmental protection: None, are functions of other Dependency. ANAM
  - f) Astronomical observations: None, are functions of other Dependency
  - g) Magnetic/Gravity surveys: None, are functions of other Dependency
  - h) MSDI Progress
  - i) International
  - j) Etc.
10. Conclusions

Input to the IHO Publication P-5 (*Yearbook*)

Country: \_\_\_\_\_PANAMA\_\_\_\_\_

Organization: \_\_PANAMA MARITIME AUTHORITY\_\_\_\_\_

<b>Contact information/ Informations de contact / Información de contacto</b>	
-National Hydrographer or equivalent -Directeur du service hydrographique ou équivalent -Director del Servicio Hidrográfico o equivalente	Post:Engineer Name: Adalberto Alguero Postal address: Tel: +5075014218 Fax: +5075015146 Email: hidrografia@amp.gob.pa
-Head of the Hydrographic Office (if different from the person indicated above) -Directeur du Service Hydrographique (si différent de la personne indiquée ci-dessus) -Director del Servicio Hidrográfico (si diferente de la persona indicada anteriormente)	Post:Engineer Name: Adalberto Alguero Postal address: Tel: +5075014218 Fax: +5075015146 Email: hidrografia@amp.gob.pa
-Other point(s) of contact -Autre(s) point(s) de contact -Otros punto(s) de contacto	Flor Pitty +5075015151 fpitty@amp.gob.pa
-Web site -site web -sitio web	www.amp.gob.pa
<b>Country information / Informations sur le pays/ Información sobre el país</b>	
-Declared National Tonnage -Tonnage national déclaré -Tonelaje Nacional Declarado	Tonnage: Date:
-National day -Fête nationale -Fiesta nacional	November 3, 4, 5, and 28.
-Date of establishment and Relevant National Legislation -Date de mise en place et législation nationale pertinente -Fecha de constitución y legislación nacional pertinente	11 de octubre de 1972

-Date first joined IHO -Date d'adhésion à l'OHI -Fecha de adhesión a la OHI	Not members
-Date ratification Convention -Date de ratification de la Convention -Fecha de ratificación de la Convención	Not apply
-Remarks on membership -Remarques sur l'adhésion -Comentarios sobre la adhesión	none
<b>Agency information/ Information sur l'agence/ Información sobre la agencia</b>	
-Top level parent organisation -Organisme mère -Organización asociada de nivel superior	
-Principal functions of the organisation or the department -Attribution principales de l'organisme ou du département -Principales funciones de la Organización o departamento	
-Annual operating budget -Budget annuel -presupuesto anual	
-Total number of staff employed -Effectifs totaux -Número total de personal empleado	
-Number of INT charts published -Nombres de cartes INT publiées -Número de cartas INT publicadas	
-Total number of paper charts published-Nombre total de cartes papier publiées-Número total de cartas de papel publicadas	

-Number of ENC cells published -Nombres de cellules ENC publiées -Número de células ENC publicadas				
-Number of Other charts -Nombre d'Autres cartes -Número de Otras cartas				
-Type of publications produced -Type d'ouvrages produits -Tipo de publicaciones producidas				
-Detail of surveying vessels/ aircraft -Détail des bâtiments hydrographiques / aéronefs -Detalle de los buques hidrográficos / aeronaves	-Name -Nom -Nombre	-Displacement -Déplacement -Desplazamiento	-Date Launched -Date de mise en service -Fecha de botado	-Number of crew -Nombre de l'équipage -Tripulación
-Other information of interest -Autres informations utiles -Otra información de interés				

Input to the IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*)

Country: \_\_\_\_\_

C-55 Summary for:				Comments on Charts:
Country:				
Country Iso Code:				
Country SubCode:				
INT Region:				
Country/Depend:				
Last updated:				
Provided by:				
Chart coverage	Passage (%)	Coastal (%)	Port (%)	Comments on Surveys:
INT				
RNC				
ENC				
Status of Paper Charts				
Paper charts with depths in meters (%)				
Paper charts referenced to a satellite datum (%)				
Status of surveys	Adequate (%)	Resurvey (%)	No survey (%)	
0-200m				
> 200m				

MSI	Y/N	Comments on MSI:
Local warning		
Coastal warning		
Nav warning		
Port warning		
GMDSS	Y/N	Comments on GMDSS:
Master Plan		
Area A1		
Area A2		
Area A3		
NAVTEX		
SafetyNet		

## National MSI Self-Assessment

Country: \_\_\_\_\_

Organization: \_\_\_\_\_

## 1. Maritime area

*[Describe maritime area including details of the geographic boundaries]*

## 2. Operational Points of Contact for the National Coordinator

INSTITUTION	TELEPHONE	FACSIMILE	EMAIL

## 3. GMDSS Master Plan

*[Report on the status of the GMDSS Master Plan: Is it up to date? When was the last update?]**[Specifics of equipment used and software version with date up-dated]*

Equipment Type for Ports and Local Area	Software Version	Date of Up-date

*[Detail the number of warnings identified as immediate priority (requiring transmission within 30 minutes) and the average elapsed time for passing to NAVAREA coordinator, as reported to the last RHC meeting]:*

Year Y-2		Year Y-1		Year Y	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
xx	xx.x Mins	xx	xx.x Mins	xx	xx.x Mins

## 4. NAVTEX Coverage:

*[Diagram of NAVTEX stations and service areas within maritime area; Contact details for NAVTEX Stations; Confirm operational status has been validated.]*

## 5. Operational Issues:

*[New infrastructure in accordance with GMDSS Master Plan; Problems encountered?]*

## 6. Contingency Planning



*We receive support from NAVOCEANO for surveys collection data and processing from UKHO we have an exchange of knowledge and training support.*

7. Capacity Building

*MSI capacity building – Jamaica 2009*

8. Other Activities

9. National Maritime Website

<http://www.cocatram.org.ni/rutas/>  
[www.amp.gob.pa](http://www.amp.gob.pa)

10. Recommendations

*Bring more capacity building to strengthen our human resources and exchange experiences to improve hydrographics skills.*

11. Summary

*[Please provide a short summary of this paper which will be included in the final report of the meeting.]*