

**14th MEETING OF THE IHO INTER-REGIONAL COORDINATING COMMITTEE IHO-  
IRCC14  
6-8 June 2022**

**Report of the SOUTH EAST PACIFIC REGIONAL HYDROGRAPHIC COMMISSION**

<b>Submitted by:</b>	Rear Admiral Cesar ZELADA Levy, SEPRHC
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<b>Chair:</b>	Rear Admiral Cesar ZELADA (Peru) from September 15, 2020 to 2023
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<b>Member States:</b>	Chile, Peru Ecuador y Colombia
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<b>Observer State:</b>	Panama
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<b>Expert Contributors:</b>	None
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*see Annex A for full details*

### **1. Meetings Held During Reporting Period**

The following SEPRHC meetings have been held since IRCC13:

- Video conference 31th August 2021.
- Video conference 25th November 2021.
- Video conference, 25th May 2022.

On September 15, 2020, Peru took over the Presidency of the Southeast Pacific Regional Hydrographic Commission. The next video conference will be in 6th July 2022.

### **2. Work Program**

The SEPRHC VTC works with a permanent agenda with amendments for the new issues as they arise. The main topics in the agenda are:

- Commission Representation at the IHO Council.
- Submission of National and IHO Secretariat reports.
- Submission of reports drafted by Working Groups and Committees (CBSC).
- GEBCO/Seabed 2030 Progress.
- Update of IHO C-55 and P-5 Publications.
- Update of the regional electronic charting schemes.

### 3. Progress on IRCC Action Items

#### A. IHO CB Work Programme

AÑO	PRIORITY	COUNTRY	PROJECTED WORKSHOP
2022	PR-1	Colombia	Workshop on MSI implementation and development (26-30 Sept 2022)
	PR-1	Ecuador	Workshop on Cartographic Data Management. To define
		Peru	Workshop on tsunami procedures by regional experts. To define
2023	PR-1	Colombia	MSDI Workshop
	PR-2	Colombia	Quality Control for Data Processing
	PR-1	Ecuador	AUV for near shore Hydrographic and Topographic Surveys
	PR-1	Chile	Administration and production on bathymetric Data Base
	PR-2	Chile	Use of automated statistical filters for bathymetric data processing.
	PR-1	Peru	S-101 Workshop and S-102 Workshop (Electronic Navigational Chart and Bathymetric Surfaces)
2024	PR-1	Colombia	MSI Workshop
	PR-2	Colombia	Ellipsoid Reference Survey (ERS)
	PR-1	Ecuador	Evaluation and implementation of effective measures to establish MSDI.
	PR-1	Chile	Workshop on implementation and procedures for S-100 standard.
	PR-2	Chile	Workshop on Cartographic production and proceedings under S- 101 standard.
	PR-1	Peru	S-101 Workshop (Electronic Navigational Chart)
	PR-2	Peru	S-102 Workshop (Bathymetric Surfaces)

#### B. SEPRHC NAVIES KEEP GRADING HYDROGRAPHERS

YEAR	COURSE	COUNTRY	DURATION	OPEN TO FOREIGNERS
2023	Hydrography Cat. "A "	Colombia	1.5 YEARS	YES
	Hydrography Cat. "B"	Colombia	1 YEAR	YES
	Hydrography Cat. "B"	Ecuador	1 YEAR	NO
	Hydrography Cat. "A "	Chile	2 YEARS	YES
	Hydrography Cat. "B"	Peru	1 YEAR	YES

### C. INTERNATIONAL HYDROGRAPHIC REVIEW

SEPRHC has actively contributed to the Review as an important means of sharing information on their activities and developments within the hydrographic community such as the following:

Publication	Note	Articulo	Autor
Volumen 25	Hydrographic service of Colombia in front of disaster care.		Colombia
		The Kirke channel and its nautical cartography from the 1982 edition to the new edition 20 19.	Chile
Volumen 26		An overview of the coverage with ENC in the Mesoamerican Regional Hydrographic Commission and the Caribbean Sea - MACHC.	Colombia

And we have contributed with an Article and a Note for Volume 27.:

Publication	Note	Article	Author
Volumen 27		Characterization of four shipwrecks from 1741 in the Bay of Cartagena	Colombia
	The Participation of women in Hydrography Activity in Chile		Chile

### D. World Electronic Nautical Chart Database (WEND)

COUNTRY	ELECTRONIC CHARTS	AREA
COLOMBIA	69	PACIFIC OCEAN AND CARIBBEAN SEA
ECUADOR	89	PACIFIC OCEAN
CHILE	326	PACIFIC OCEAN
PERU	133	PACIFIC OCEAN

### E. Universal Hydrographic Data Model S-100

SEPRHC hydrographic services are currently carrying out virtual training, workshops and informing about this technological migration.

## F. International representative

COUNTRY	NAME	REPRESENTATIVE
Peru	Captain JAVIER FERNANDEZ	Associate Professional Officer - Monaco
Chile	Commander (R) FELIPE BARRIOS	CBSC- SEPRHC Coordinator

## G. International courses

Ecuador	Lieutenant MILDRED BARZOLA	"Geoespatial Marine Analysis and Cartography" (GEOMAC) - UK
Peru	Lieutenant SERGIO LAURA	

## H. GEBCO I Seabed 2030 Progress

As part of the committee's contribution to GEBCO 2030, this year bathymetry was carried out on the Nazca ridge - Peru, supported by a research vessel called Pressure drop, the survey was more than 10,000 km<sup>2</sup>, which means 17% of the total area. This bathymetry was carried out the last week of January of this year.

The Directorate of Hydrography and Navigation of Peru has as a research proposal, to carry out a multibeam bathymetric survey of the missing area on board the B.A.P. "CARRASCO", which includes an area of 51,859.05 km<sup>2</sup>, considering that the work period would last 41 calendar days to obtain that information.

The SHOA Hydrographic and Oceanographic Data Center (CENDHOC) made its last delivery in 2020, which corresponds to the bathymetric probes acquired in the transits of the Ship "Cabo de Homos", during the years 2014 and 2015. Data for the year 2022 will be delivered shortly.

## 4. Challenges faced in the region

- A. Migration to the S-100 and the Sxx
- B. Geomorphological identification of underwater geological information.
- C. Increase the SEPRHC region's capacity building budget for workshops.
- D. Declining public budgets could reduce the purchase of marine products. However, in order to continue to provide safety for maritime navigation and environmental protection, it is expected that the quality of these products will not decrease.

## 5. Conclusions and Recommended Actions

- The Commission continues working in their tasks and commitments signed in the XIII SEPRHC, IRCC, HSSC, IHO CONCIL, CBSC are checking the advance in video conferences every 2 or 3 months.
- The SEPRHC recognizes the continuous support of CBSC in Capacity Building. **But the region needs to increase the budget for workshops.**
- The close relationship between the members of the committee allows permanent communication and share information.

- This cooperation has been critical in order to promote an understanding of national directions and hydrographic priorities and interests, that results in opportunities for collaboration and mutual assistance

**6. Justification and Impacts**

None

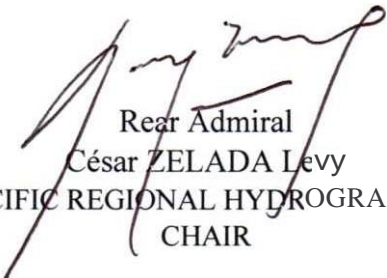
**7. Action Required of IRCC**

The IRCC is invited to:

- Take note of this report
- Provide any feedback to the Chair and Member States of the SEPRHC on any of the topics discussed.

**Annex A****Membership of SEPRHC**

<b>RHC I Member State</b>	<b>Name of Delegate</b>	<b>email</b>
Colombia	Vice Admiral Jose AMEZQUITA	director@dimar.mil.co
Peru	Rear Admiral Cesar ZELADA	czelada@dhn.mil.pe
Chile	Commodore Arturo OXLEY	director@shoa.cl
Ecuador	Commander Carlos ZAPATA	director@inocar.mil.pe



Rear Admiral  
César ZELADA Levy  
SOUTH EAST PACIFIC REGIONAL HYDROGRAPHIC COMMISSION  
CHAIR