



THE LEBANESE NAVY HYDROGRAPHIC SERVICE



CDR AFIF GHAITH





Overview:

- History
- Beirut Port Explosion
- Capacity Building Program
- Maritime Safety Information
- Technical Arrangement
 - Implementing Technical for Charts Co-Production
 - ❖ Lebanese National Nautical Charting Plan
 - ✓ Overview of Charting Plan
 - ✓ Charts Overview
- Way Forward
- National Role



HISTORY



- LNHS was established within the Lebanese Armed Forces - Navy in 2014.
- Designated as the National Point of Contact for all hydrographic and safety of Navigation related issues.
- Started following a capacity building program under the supervision of the Italian Hydrographic Institute since 2014.
- Joined the IHO on the 7th of December 2020 and subsequently the MBSHC on the 26th of February 2021.



BEIRUT PORT EXPLOSION

- Big Explosion In Beirut Port on the 4th of August 2020.
- 215 lives were lost and at least 7500 were injured.
- Destroyed most of the City and especially the port.
- The Lebanese Navy Hydrographic Service situated within the premises of Beirut Port Basin 1 was severally damaged.
- LNHS played a vital role in managing the aid convoy.

CAPACITY BUILDING PROGRAM

- Phase 1
 - Dissemination of MSI
 - Integrate Lebanon in the World-Wide Navigational Warning Service.
- Phase 2
 - Acquiring survey capabilities.
- Phase 3
 - Producing and maintaining of charts and nautical publications.





Maritime Safety Information

- **Weak** Flow of information between all stakeholders involved in the maritime sector.
- **Agreements** to be established with all stakeholders to allow for the correct flow of information.
- Continuous training and **establishing** a complete **MSI system**.
- Currently all MSI are sent via email to NAVAREA III coordinator **only**.
- **Vital** need of establishing the **National Hydrographic Coordinating Committee (NHCC)**.





Technical Arrangement

Between

**THE MINISTRY OF NATIONAL DEFENSE
OF THE LEBANESE REPUBLIC**

And

**THE MINISTRY OF DEFENSE
OF THE ITALIAN REPUBLIC**

**IN THE FIELD OF
HYDROGRAPHY, OCEANOGRAPHY**

AND

NAUTICAL CARTOGRAPHY

TECHNICAL ARRANGEMENT

- Between the Ministries of Defense of Italy and Lebanon.
- Regulates the co-operation in the fields of Hydrography, Oceanography and Nautical Cartography.
- Signed on the 6th of July 2020 by the Commander in Chiefs of the Respective Navys.
- It is the foundation for the co-operation with the IIM for the next decade.
- Implementing Technical Annexes in more specific fields to follow.

IMPLEMENTING TECHNICAL ANNEX

Between

The Lebanese Navy Hydrographic Service (LNHS)

And

The Italian Hydrographic Institute

About

The co-production of Electronic Nautical Charts (ENCs) and INT
Paper Charts



IMPLEMENTING TECHNICAL ANNEX FOR CHARTS CO-PRODUCTION

- Between the LNHS and the IIM.
- Regulates the co-production of ENCs and INT Paper Charts.
- Signed on the 28th of April 2021 by the Directors of respective hydrographic Services.
- Aims to develop the Lebanese Cartographic Capabilities in order to be the PCA for Lebanon.
- Derives from it the “LEBANESE NATIONAL CHARTING PLAN”.

Lebanese National Nautical Charting Plan



LEBANESE NATIONAL NAUTICAL CHARTING PLAN

27 APRILE

Lebanese Navy Hydrographic Service





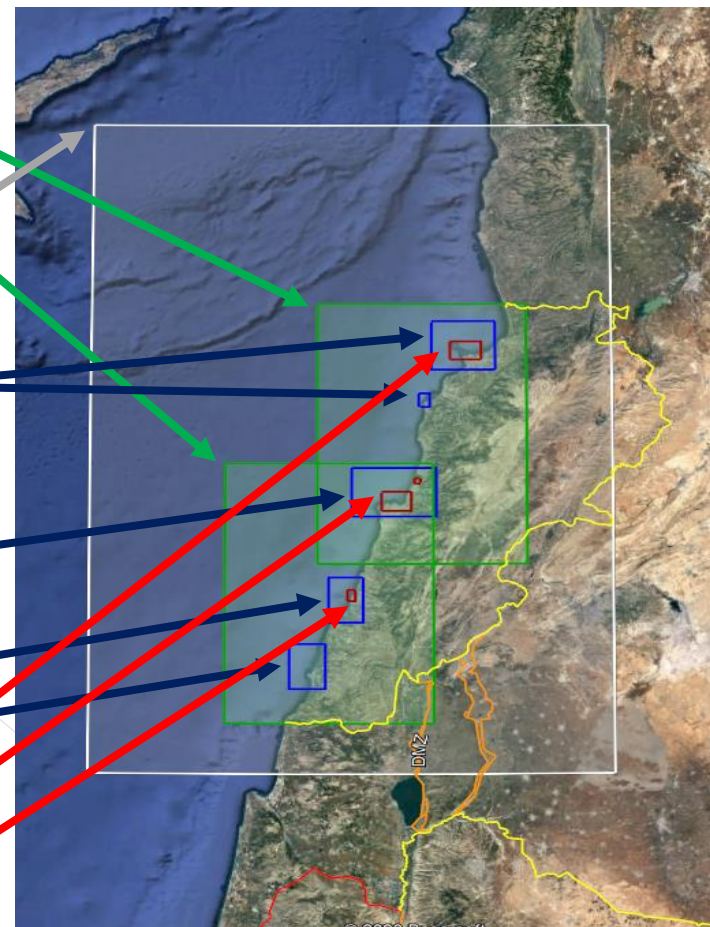
Overview of Charting Plan

- This plan describes a strategy to create a comprehensive “Nautical Charting Plan” to be developed in the next decade (2021-2031) together with a suite of nautical publications.
- Following the Technical Arrangement dated July 2020, the Italian Hydrographic Institute (IIM) will support the LNHS in the development and production of the Lebanese Nautical Charting Plan.
- The Lebanese Nautical Charting plan is composed of 3 series of charts (ENCs and Paper Charts) in accordance with the navigational requirements of shipping and the need to provide a coherent and logical scheme of charts for a route or for port entry.



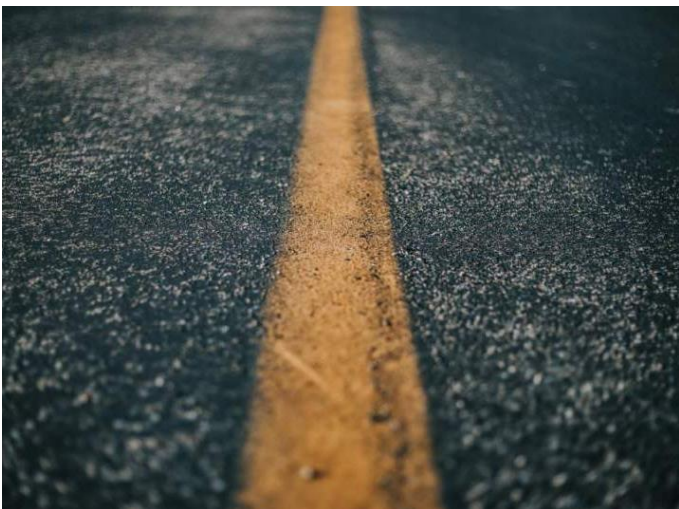
Charts Overview

	TITLE	SCALE ENC	Scale PC	INT
LB 301	Tripoli to Ras es Saadiyat	1:90.000	1:100.000	
LB 302	Ras El Maameltein to Ras Al Naqourah	1:90.000	1:100.000	
LB 303	Baniyas to Akko	1:180.000	1:250.000	YES
LB 401	Approach to Tripoli and Selaata			
	Approach to Tripoli (A)	1:45.000	1:40.000	
	Approach to Selaata (B)	1:22.000	1:20.000	
LB 402	Approach to Beirut and Port of Jounieh	1:45.000	1:40.000	
	Port of Jounieh (A)	1:12.000	1:12.000	
LB 403	Approach to Sidon	1:22.000	1:25.000	
LB 404	Approach to Tyre	1:22.000	1:25.000	
LB 501	Port of Tripoli	1:6.000	1:8.000	YES
LB 502	Port of Beirut	1:6.000	1:8.000	YES
LB 503	Port of Sidon	1:4.000	1:6.000	YES





WAY FORWARD



Collaboration

- Co-producing charts with IIM as per the Technical Agreement starting from 2021.
- Signing new Technical Agreement with other Hydrographic Offices (SHOM, UKHO,...) for reproduction rights.
- Continue and enhance the National hydrographic awareness with all marine stakeholders.

Infrastructure and Personnel

- Enhance the number of certified personnel by enrolling them in IHO certified courses.
- Need funds to start building a new facility.



NATIONAL ROLE

- Place Lebanon on the International Hydrographic Scene.
- Enhance the safety of navigation in and around the Lebanese waters.
- Become the Primary Chart Authority (PCA) for Lebanon.





THANK YOU

Shmal.navy@army.gov.lb