



ROYAUME DU MAROC  
FORCES ARMEES ROYALES  
ETAT MAJOR DE LA MARINE ROYALE  
DIVISION HYDROGRAPHIE  
OCEANOGRAPHIE ET CARTOGRAPHIE

MOROCCAN NATIONAL REPORT TO THE 17<sup>th</sup> CONFERENCE OF THE EASTERN  
ATLANTIC HYDROGRAPHIC COMMISSION (EA<sub>t</sub>HC)

1. Hydrographic office: General

The division of Hydrography, Oceanography and Cartography (DHOC) is a department of the General staff of the Royal Moroccan Navy. Being the National Hydrographic Office, DHOC is responsible for producing nautical charts necessary to ensure the safety of navigation in waters under its national jurisdiction. Currently, DHOC co-produces its charts in collaboration with the French hydrographic office “Shom” and will be fully autonomous by the end of this year.

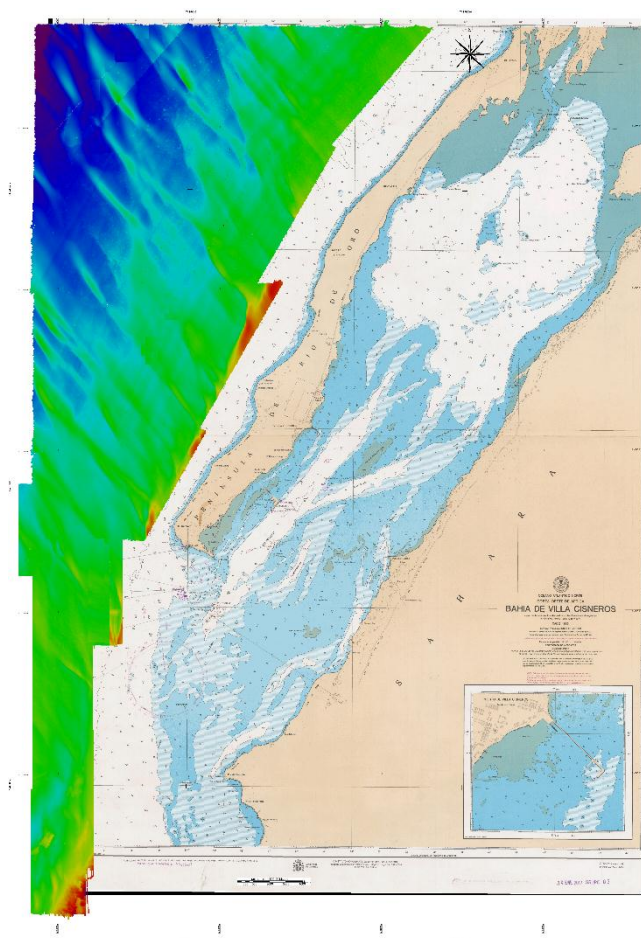
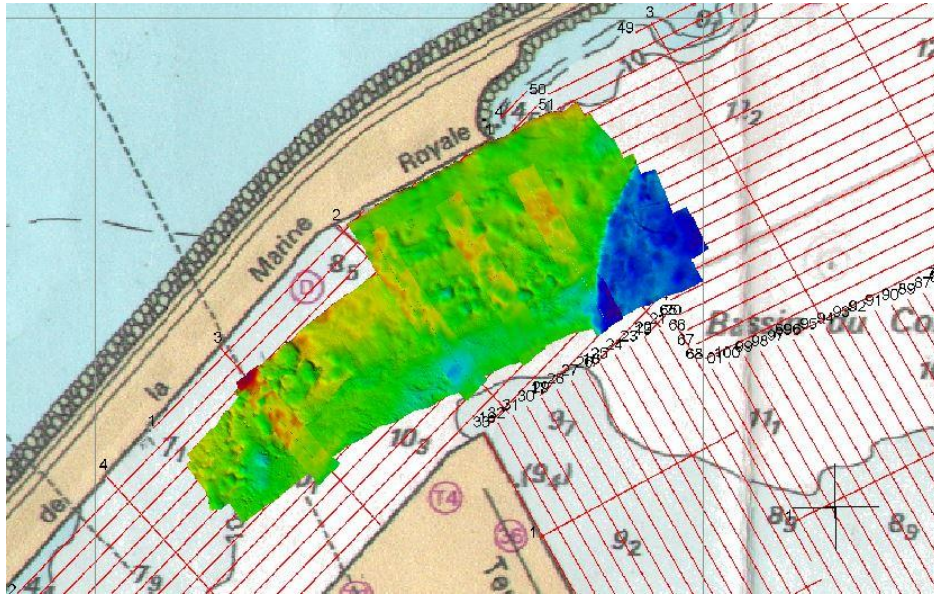
The nautical charts coproduced by DHOC and Shom are mainly made using data coming from hydrographic surveys carried out by DHOC and the Shom as well as other national and international partners.

2. Surveys

**2.1 Coverage of new surveys**

Since the last conference of the EA<sub>t</sub>HC, DHOC carried out four hydrographic surveys in:

- Casablanca's harbor;
- Approaches of Dakhla;
- Approaches of Nador West Med harbor (under construction);
- Approaches of Tarfaya.



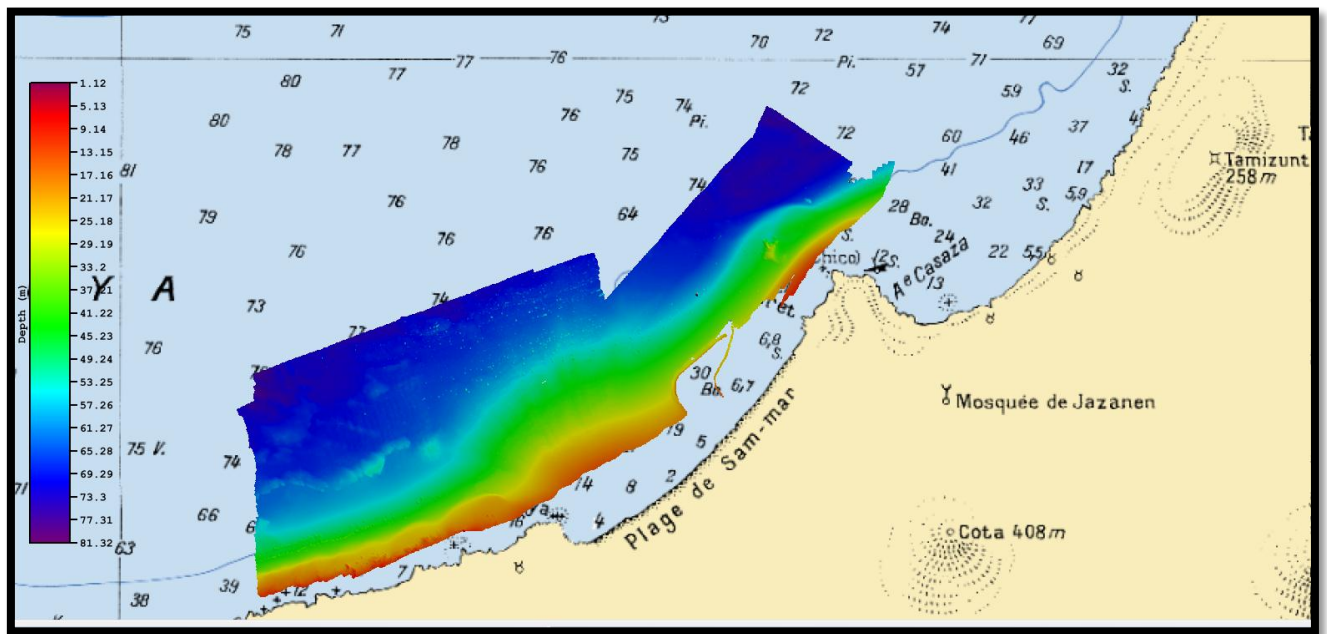


Figure 3: Hydrographic survey carried out in the approaches of Nador West Med

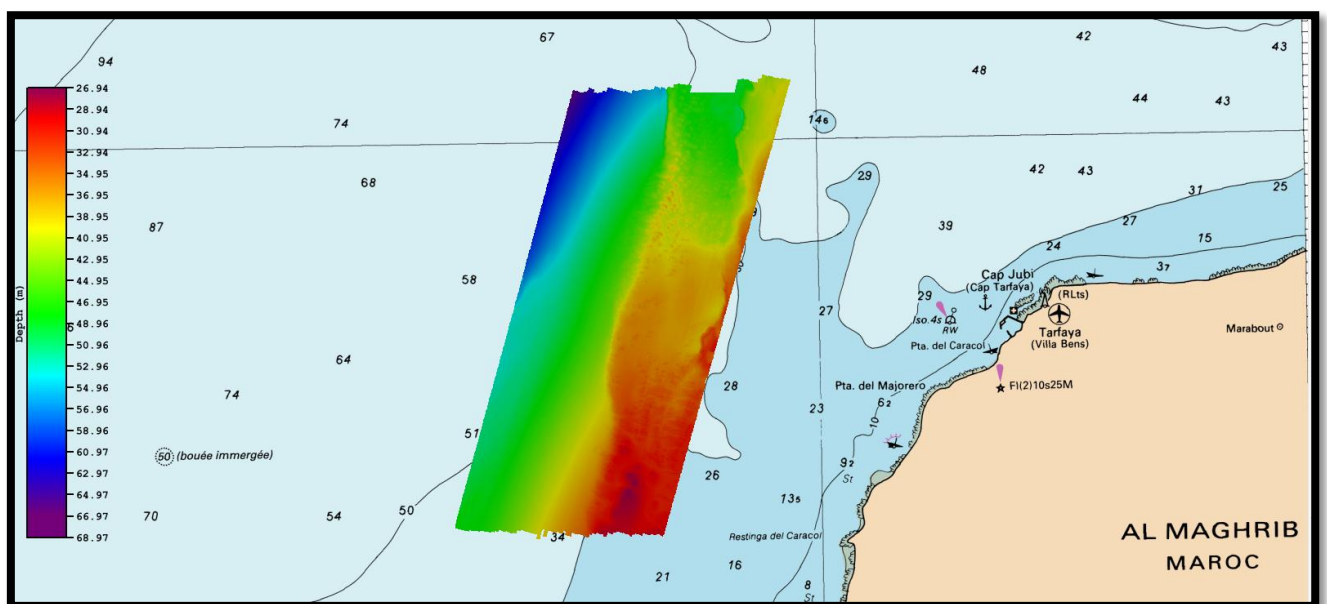


Figure 4: Hydrographic survey carried out in the approaches of Tarfaya

The surveys mentioned above are intended for nautical charts and navigation safety needs.

### 3. New chart and updates:

#### 3.1 ENC coverage, gaps and overlaps

Since the last conference of the EAtHC, DHOC and Shom have coproduced, within the area of the EAtCH, two new ENCs.

##### ➤ New publications

Number	Scale	Title	Edition
FR577160	1/8 000	West coast of Morocco- Jorf Lasfar harbour	2022
FR577180	1/ 8 000	West coast of Morocco- New port of Safi	2021

Table 1 : List of ENCs published since the last conference

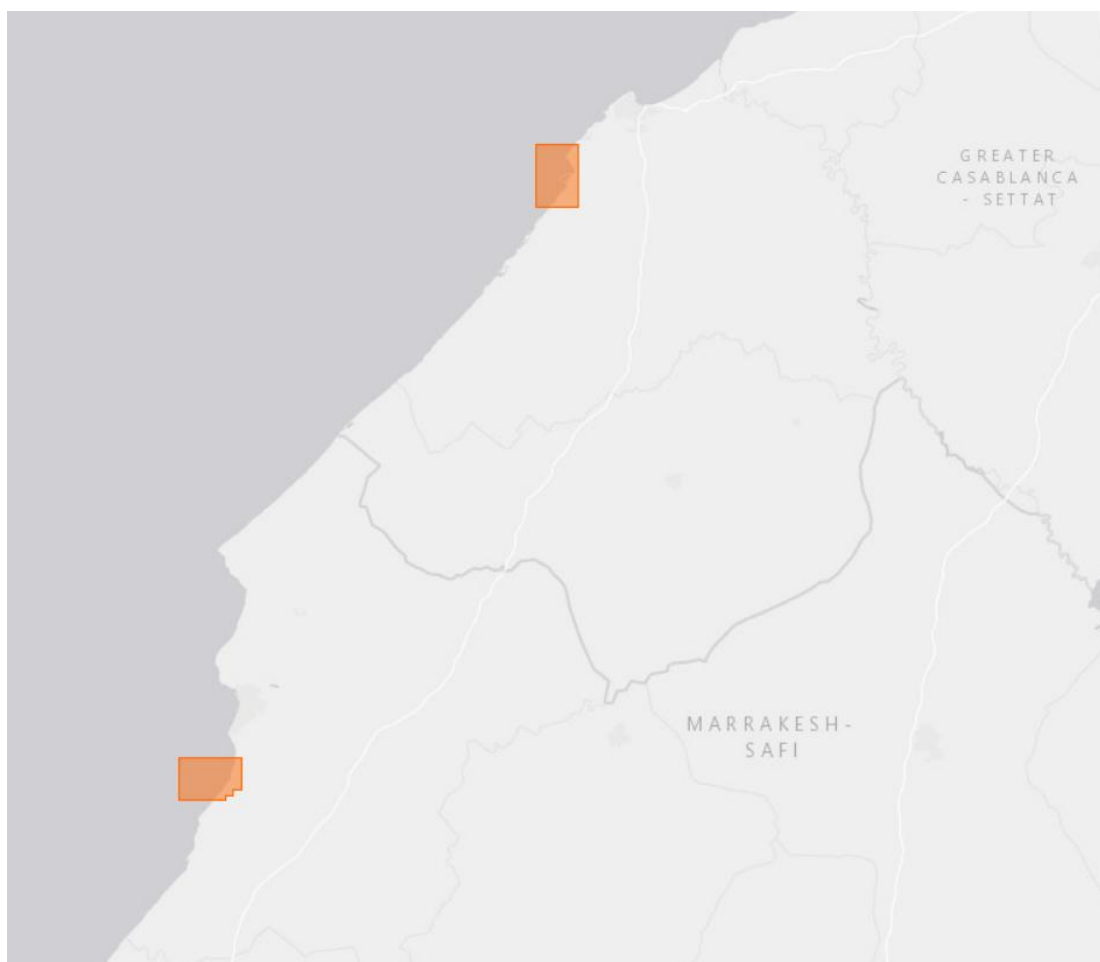


Figure 5: Coverage of ENCs published since the last conference

##### ➤ ENCs produced

Until now, DHOC and Shom have coproduced, within the area of the EAtCH, fifteen ENCs and six new cells are planned in 2022-2023.

Number	Scale	Title	Year of publication /edition
FR577160	1/8 000	West coast of Morocco- Jorf Lasfar harbour	2022
FR577180	1/ 8 000	West coast of Morocco- New port of Safi	2021
FR377020	1/90 000	West coast of Morocco – Mehdia to Mohammedia	2021
FR577130	1/8 000	Rade and port of Agadir	2021
FR477150	1/45 000	West coast of Morocco -Agadir approaches	2020
FR377080	1/90 000	West coast of Morocco – From Oued Tensift to Cap Ghir	2020
FR377090	1/90 000	West coast of Morocco – From Cap Ghir to Sidi Ifni	2020
FR577110	1/8 000	Rade and port of Safi	2019
FR577120	1/12 000	West coast of Morocco – Tan Tan approaches	2018
FR67712A	1/4 000	West coast of Morocco – Tan Tan harbour	2018
FR377010	1/90 000	West coast of Morocco – Mohammedia to Jorf Lasfar	2018
FR477060	1/45 000	Approaches to Casablanca and Mohammedia	2017
FR577000	1/8 000	West coast of Morocco – Approaches to Casablanca	2016
FR377040	1/90 000	West coast of Morocco – Asilah to Sidi Al Hachimi	2015
FR577050	1/8 000	West coast of Morocco – Approaches to Mohammedia	2015

Table 2: List of ENC's produced

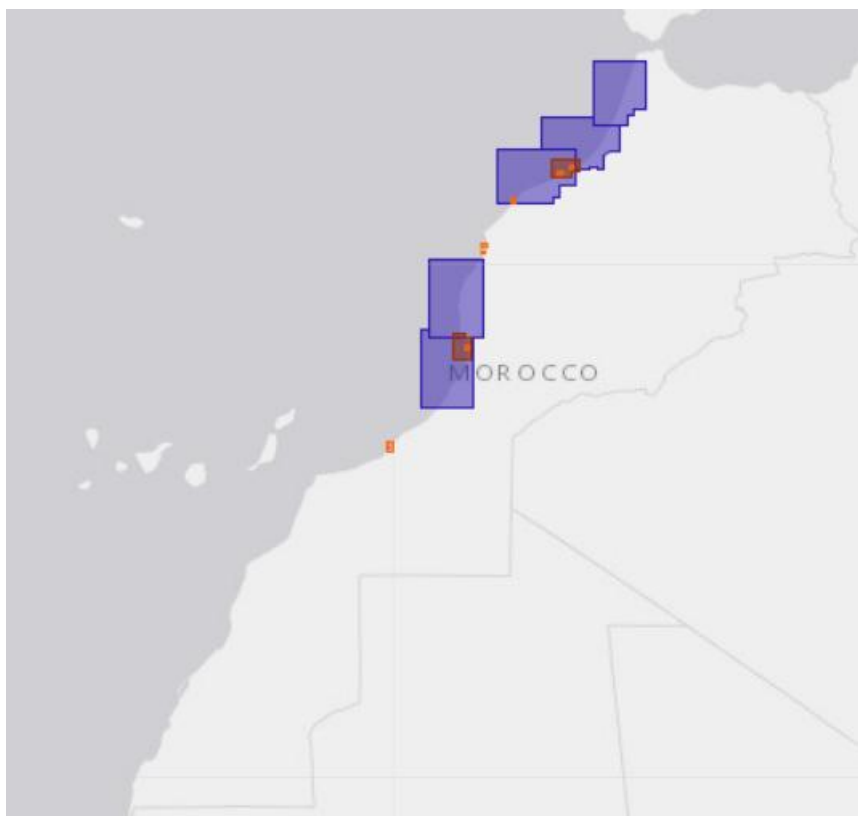


Figure 6: Coverage of ENC's produced

The figures above are extracted from the PRIMAR website.



### 3.2 ENC distribution method

All ENCs coproduced are published by Shom and distributed to the end-users through PRIMAR tools.

### 3.3 RNCs

NTR.

### 3.4 INT charts

Since the last meeting, one new INT chart were produced by DHOC and Shom, within the area of the EAtrCH.

INT number	MA number	FR number	scale	Title	Year of publication
1982	1023	7718	1/10 000	Nouveau Port de Safi	2021

Table 3: List of INT charts produced since the last conference



Figure 7: Coverage of INT charts produced since the last conference

Until now, DHOC and Shom have coproduced, within the area of the EACh, seven INT charts.

INT number	MA number	FR number	scale	Title	Year of publication
1982	1023	7718	1/10 000	Nouveau Port de Safi	2021
1983	1009	7713	1/10 000	Rade et port d'Agadir	2020
1981	1005	7711	1/10 000	Rade et port de Safi	2020
1974	3001	7701	1/144 350	De Mohammedia à Jorf Lasfar	2017
1976	1001	7700	1/10 000	Abords du port de Casablanca	2016
1975	1002	7705	1/10 000	Abords de Mohammedia	2015
1973	3002	7702	1/143 300	De Sidi Al Hachimi à Mohammedia	2009

Table 3: List of INT charts produced

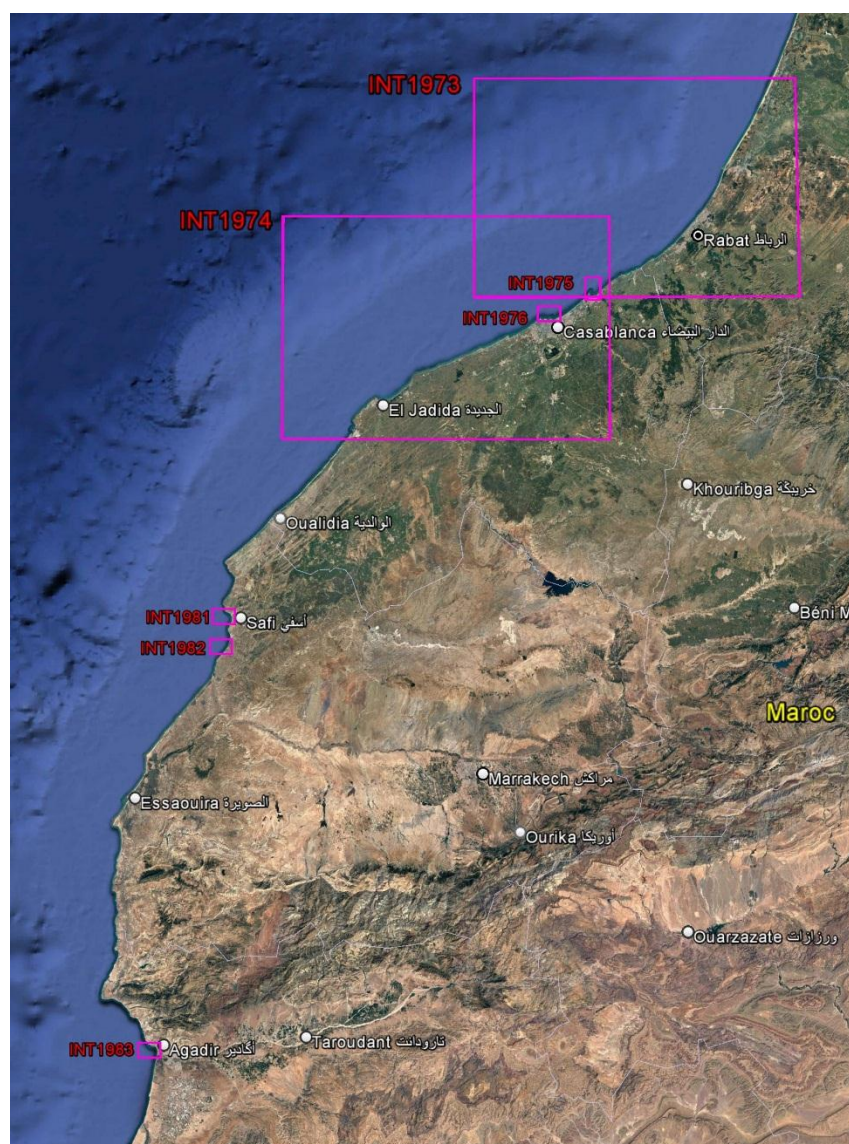


Figure 8: Coverage of INT charts produced

Furthermore, during the last conference, the EA<sub>t</sub>CH member states have approved the proposal of Morocco to update the INT scheme of the region G, by adding six new charts. Those charts, already published as national charts, will be edited in order to add the INT numbers. The table below shows the list of charts added to the INT scheme.

INT number	MA number	FR number	scale	Title	Year of publication
1979	3005	7708	1/147 980	De Oued Tenmsift à Cap Ghir	2021
1941	3007	7709	1/150 000	De Cap Ghir à Sidi Ifni	2021
1984	2007	7715	1/50 000	Approaches d'Agadir	2021
1968	1013	7712	1/20 000	Abords du port de Tan_tan	2019
1968 plan A	1013A	7712A	1/5 000	Port de Tan-tan	2019
1821	3004	7704	1/142 000	De la Pte Malabata à Sidi AlHachmi	2009

Table 5: List of charts proposed to update the INT scheme

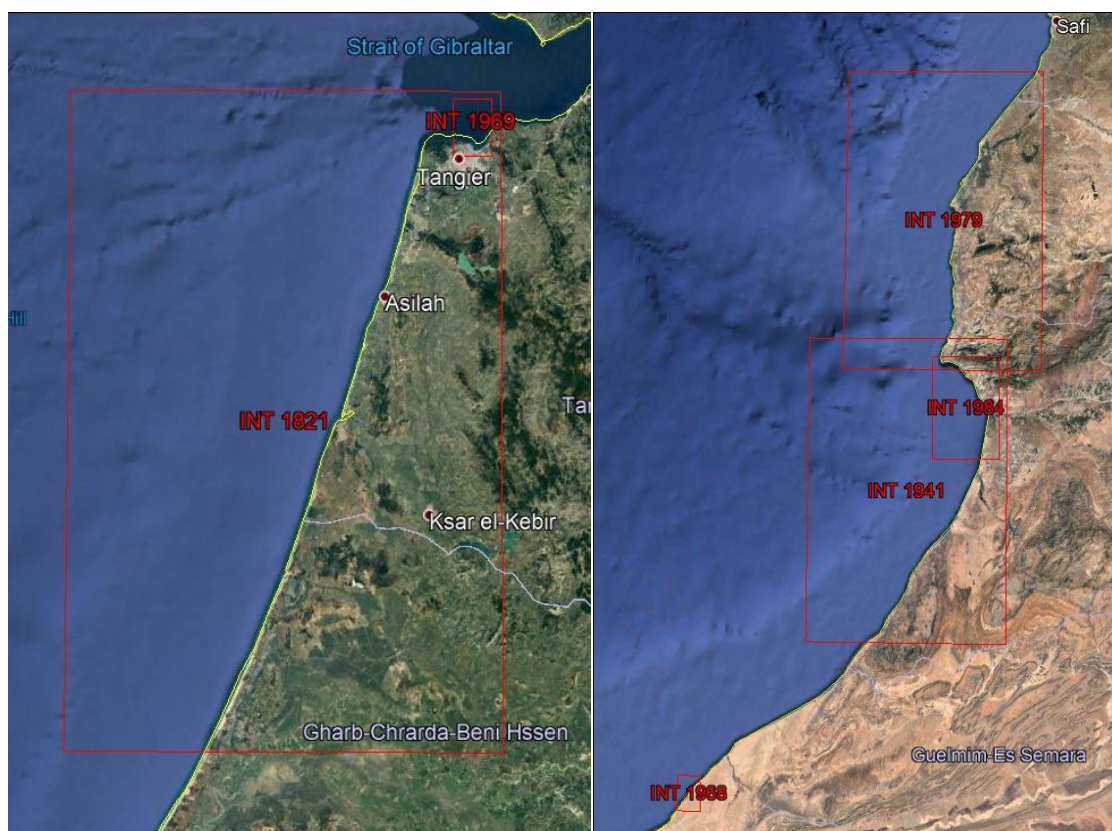


Figure 9: Coverage of charts proposed to update the INT scheme



### 3.5 National paper charts

NTR.

## 4. [New publications and updates](#)

### 4.1 New publications

DHOC produce each year a tide table for the Moroccan harbors.

### 4.2 Updated publications

The “sailing direction of the Moroccan coasts” and “Lights and radio signals document” published by DHOC in 2018 are updated monthly through the notice to mariners of DHOC.

## 5. [MSI](#)

### Existing infrastructure for MSI dissemination

Currently, DHOC transmit its notices to mariners mailing the harbor authorities and other departments, who inform the end users. DHOC web site is undergoing and it will be functional by the end of this year. Next year, DHOC’s notices to mariners will be available on its web site.

### Statistics on work of the National Coordinator

As a National Coordinator, DHOC insure the MSI dissemination. Thus, since last meeting more than 390 navigational warning were published by DHOC. In addition, 293 warning were transmitted to the NAVAREA II and 74 to the NVAREA III.

## 6. [C-55](#)

The update of the C-55 in progress.

## 7. [Capacity building](#)

NTR.

## 8. [Oceanographic activities](#)

In collaboration with other national department, the DHOC has established a tide gauge network. Actually, eleven tide gauges are installed in the main national harbors. In addition, thirteen tide gauges, acquired by the National Ports Agency (ANP), will be installed next year.

## 9. [Spatial data infrastructures](#)

NTR.

## 10. [Innovation](#)

NTR.

## 11. [Other activities](#)

NTR.