



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

**MOROCCAN NATIONAL REPORT TO THE 18th CONFERENCE OF THE EASTERN
ATLANTIC HYDROGRAPHIC COMMISSION (EA_tHC)**

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_tHC, DHOC carried out four hydrographic surveys in:

- Approaches of Dakhla;
- Approaches of Laayoune;
- Approaches of Mohammedia;
- Casablanca’s harbor.

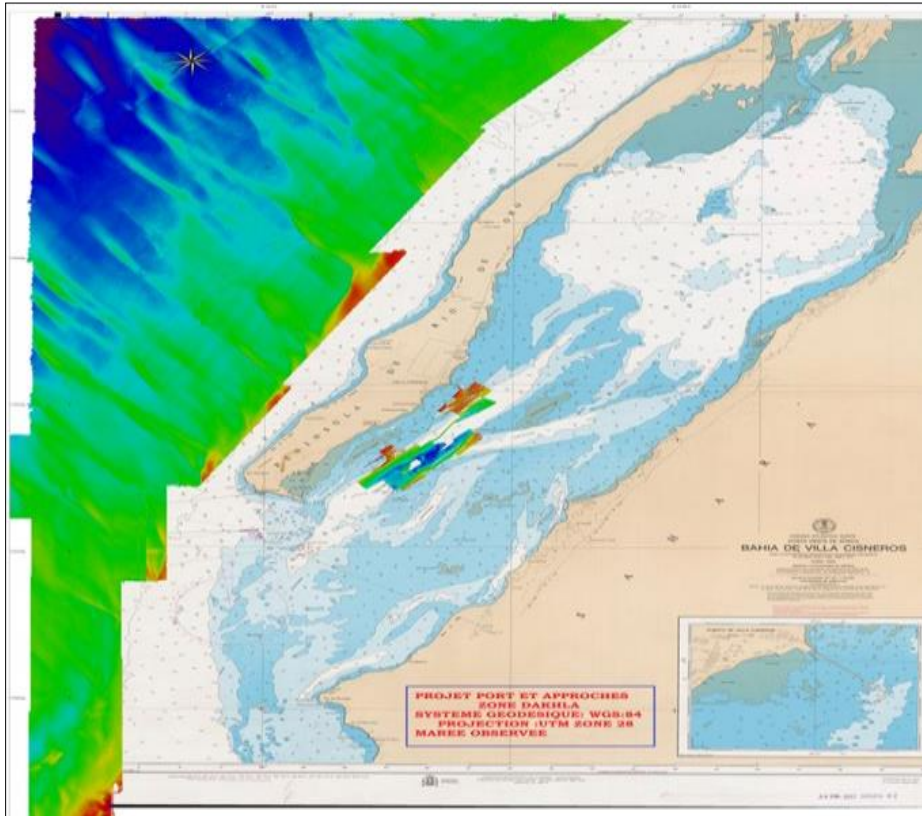


Figure 1: Hydrographic survey carried out in the approaches of Dakhla

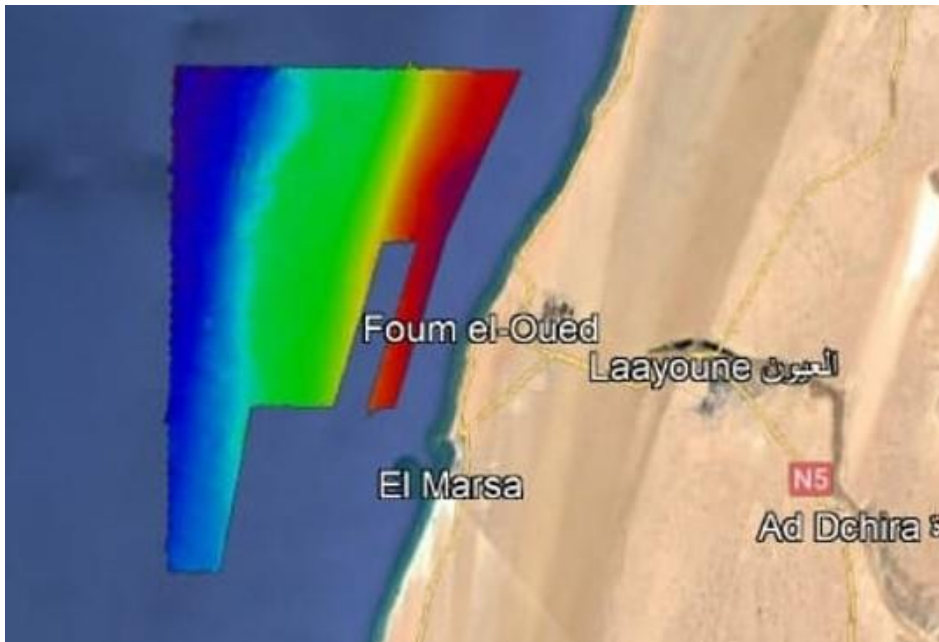


Figure 2: Hydrographic survey carried out in the approaches of Laayoune

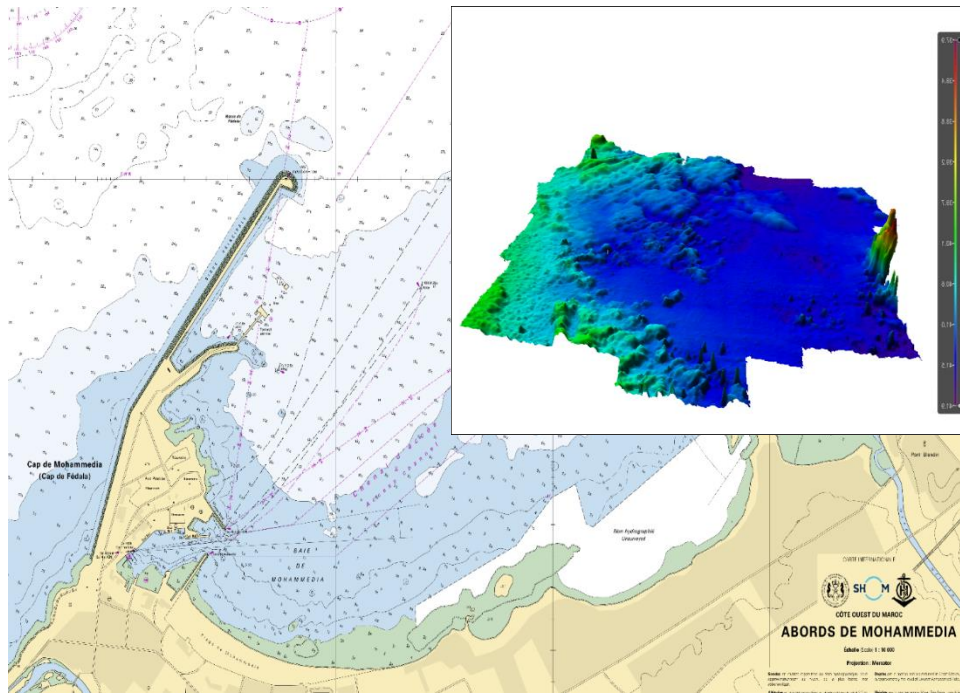


Figure 3: Hydrographic survey carried out in the approaches of Mohammedia

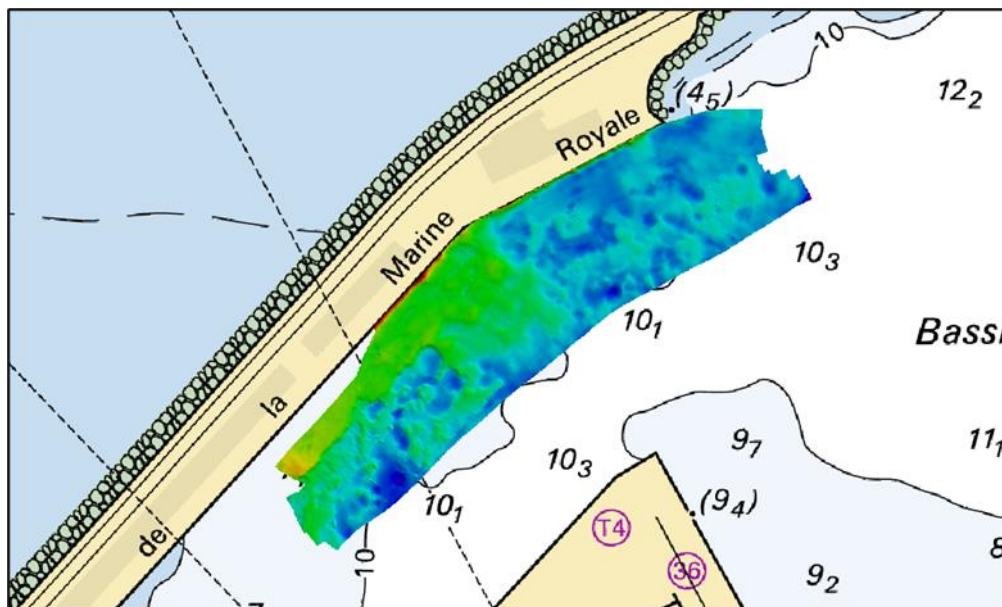


Figure 4: Hydrographic survey carried out in Casablanca Harbor

3. [New chart and updates:](#)

3.1 ENC coverage, gaps and overlaps

Since the last conference of the EAHC, DHOC and Shom have coproduced, within the area of the EAHC, one new ENC and three new editions.

➤ New publication

| Number | Scale | Title | Edition |
|----------|----------|---|---------|
| FR377030 | 1/90 000 | West coast of Morocco- Mohammedia to Jorf Lsifar | 1 |

Table 1: List of new ENCs published



Figure 5: Coverage on new ENC (publication)

➤ **New editions**

| Number | Scale | Title | Edition |
|----------|----------|--|---------|
| FR577050 | 1/8 000 | West coast of Morocco Approaches to Mohammedia | 2 |
| FR377010 | 1/90 000 | West coast of Morocco De Mohammedia to Jorf Lasfar | 2 |

Table 2: List of new ENC's edited

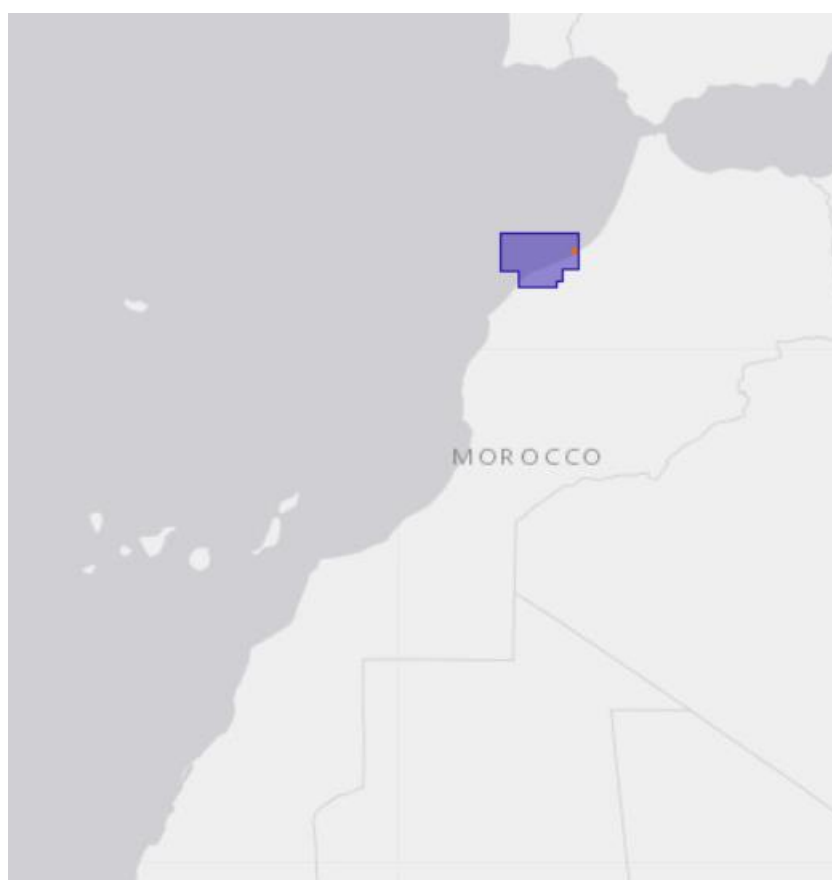


Figure 6: coverage of new ENC's (edition)

➤ **ENCs produced**

Until now, DHOC and Shom have coproduced sixteen ENCs and ten new cells are planned in 2024-2026.

| Number | Scale | Title | Year of publication/edition |
|----------|----------|---|-----------------------------|
| FR377030 | 1/90 000 | West coast of Morocco- Mohammedia to Jorf Lsafar | 2023 |
| FR377010 | 1/90 000 | West coast of Morocco - Mohammedia to Jorf Lasfar | 2023 |
| FR577160 | 1/8 000 | West coast of morocco - Jorf Lasfar harbour | 2022 |
| FR577050 | 1/8 000 | West coast of Morocco - Approaches to Mohammedia | 2022 |
| FR577180 | 1/8 000 | New port of Safi harbour | 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 |
| 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 |

Table 3: List of ENCs produced

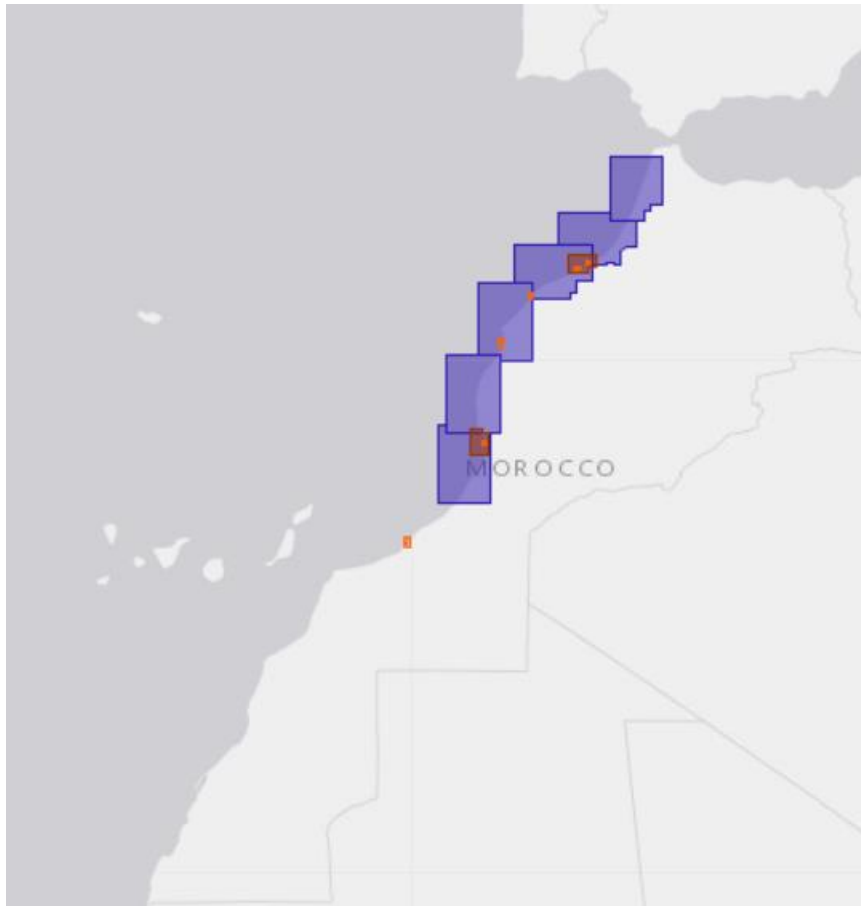


Figure 7: Coverage of ENC produced

The figures above are extracted from the PRIMAR website.

3.2 ENC distribution method

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

3.3 RNCs

NTR.

3.4 INT charts

Up to April 1st, 2024, DHOC and Shom have coproduced two new INT chart, since the last conference.

| INT number | MA number | FR number | scale | Title | Year of publication |
|------------|-----------|-----------|-----------|--------------------------------|---------------------|
| 1978 | 3003 | 7703 | 1/150 000 | De Jorf Lasfar à oued Tensifte | 2023 |
| 1977 | 1003 | 7716 | 1/10 000 | Port de Jorf Lasfar | 2022 |

Table 4: List of new INT charts produced



Figure 8: New INT charts produced

Until now, DHOC and Shom have coproduced, within the area of the EAAtCH, nine INT charts.

| INT number | MA number | FR number | scale | Title | Year of publication |
|------------|-----------|-----------|-----------|---------------------------------|---------------------|
| 1978 | 3003 | 7703 | 1/150 000 | De Jorf Lasfar à oued Tensifte | 2023 |
| 1977 | 1003 | 7716 | 1/10 000 | Port de Jorf Lasfar | 2022 |
| 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 5: List of INT charts produced



Figure 9: INT charts produced

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 twice a month through the notice to mariners of DHOC.

5. [MSI](#)

Existing infrastructure for MSI dissemination

Notices to mariners of DHOC are disseminated through its website:

www.dhocmr.ma

6. [C-55](#)

NTR.

7. [Oceanographic activities](#)

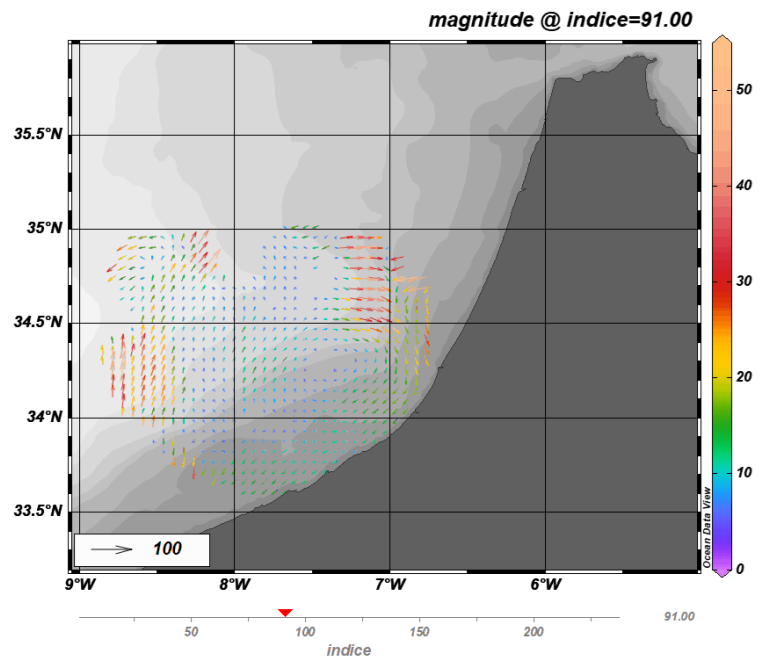
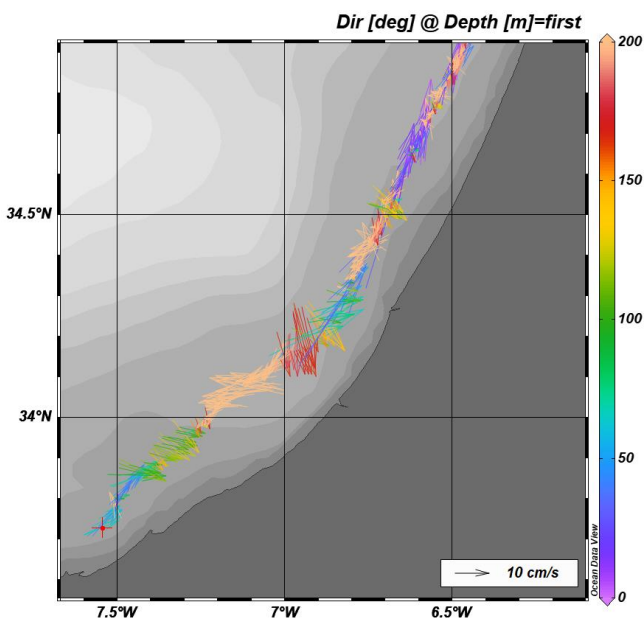
7.1. Tide

In collaboration with other national department, DHOC established a tide gauge network. Actually, sixteen tide gauges are installed in the main national harbors and eight tide gauges are planned to be installed in other harbors.

7.2. Oceanographic cruises

➤ [ATL2023](#)

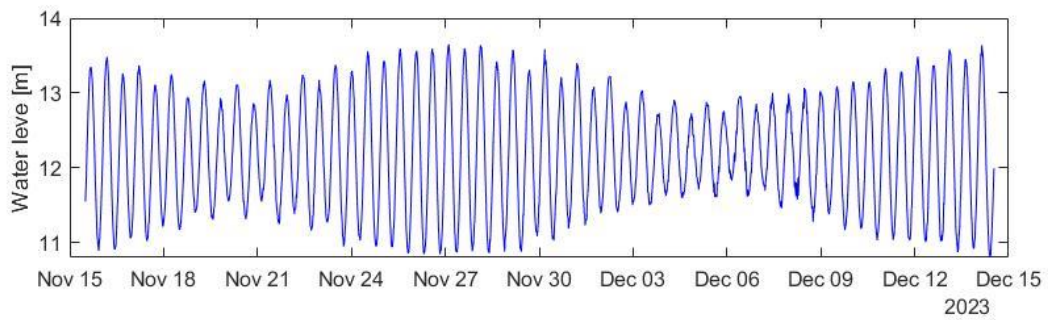
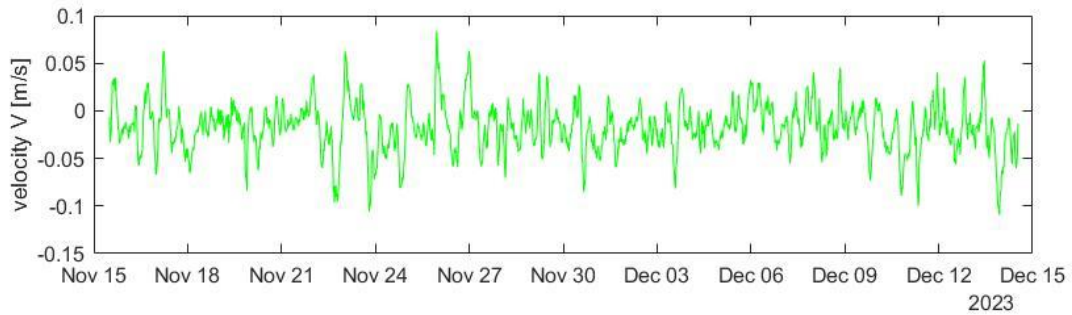
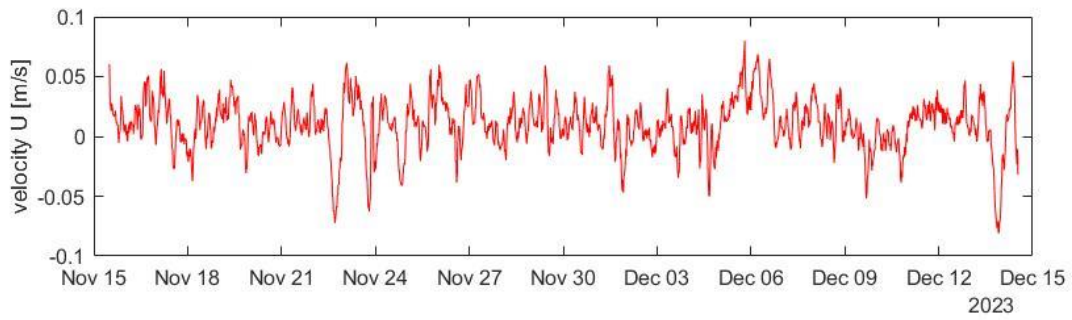
An oceanographic cruise of current measurements was conducted by DHOC in October 2023 in order to carry out an inter-comparison between the measurements of the VM-ADCP of the BHO2M 'Dar Al Beida' and those of the HF Radar of the Directorate-General for Meteorology.



➤ ADCP moorings

DHOC established an ADCP mooring in the Casablanca port to gather data on currents and water levels. This information has been used to support a hydro-sedimentation simulation model for the area.





8. [Spatial data infrastructures](#)

NTR.

9. [Innovation](#)

NTR.

10. [Other activities](#)

The website of DHOC has been published since September 2023.

www.dhocmr.ma