



MBSHC



KINGDOM OF MOROCCO

Report to MBSHC24

Constanta, Romania
2 – 4 July 2024



Division of Hydrography, Oceanography & Cartography

DHOC - Royal Moroccan Navy

MBSHC24



Introduction

HO structure in national maritime administration

The National Committee for Coordination in the fields of Hydrography, Oceanography and Cartography (NCCCHOC)

The Royal Moroccan Navy through the DHOC is a member of the National Committee for Coordination in the fields of Hydrography, Oceanography and Cartography (CNCHOC). This committee was created to fulfill the following missions :

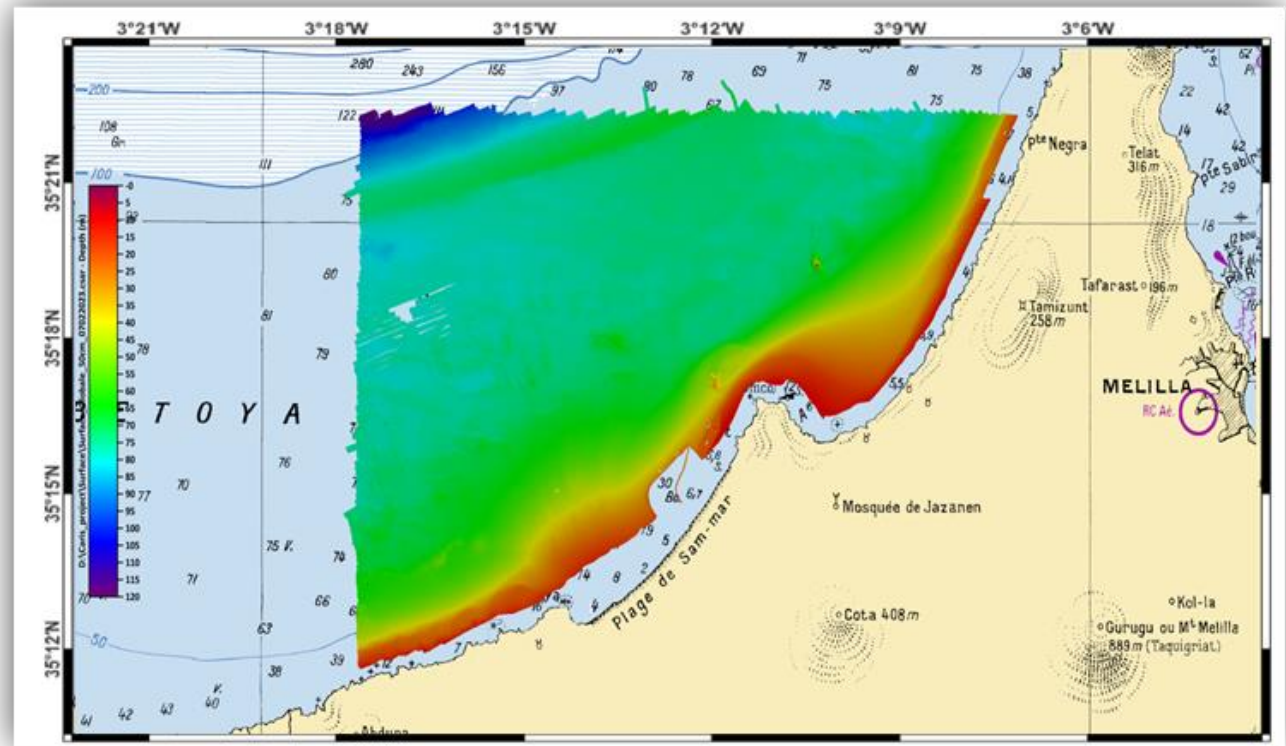
- ❖ Contribute to the definition of a national policy in the fields of Hydrography, Oceanography and Marine Cartography ;
- ❖ Approve all programs of development for Hydrography, Oceanography and Marine Cartography ;
- ❖ Prepare an annual report including the recommendations in these fields.



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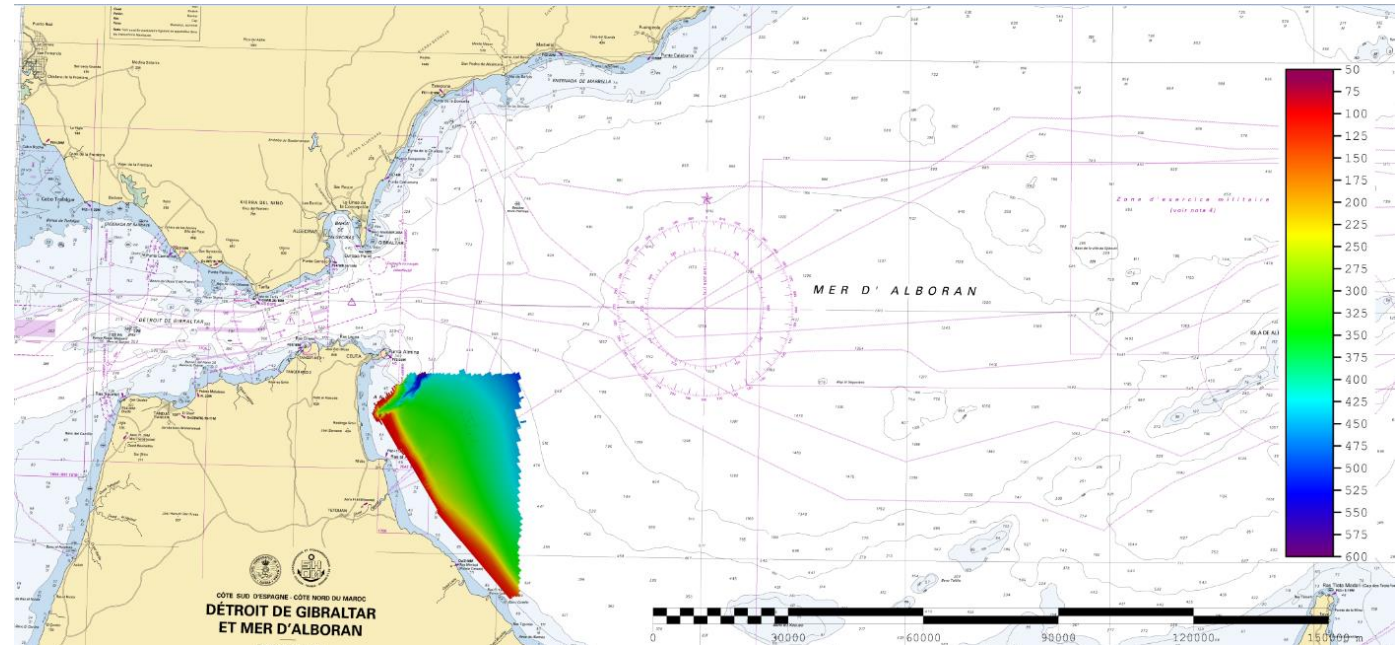
Key Achievements : Hydrography

Hydrographic Survey in
the Approaches of Nador
West-Med (2023)



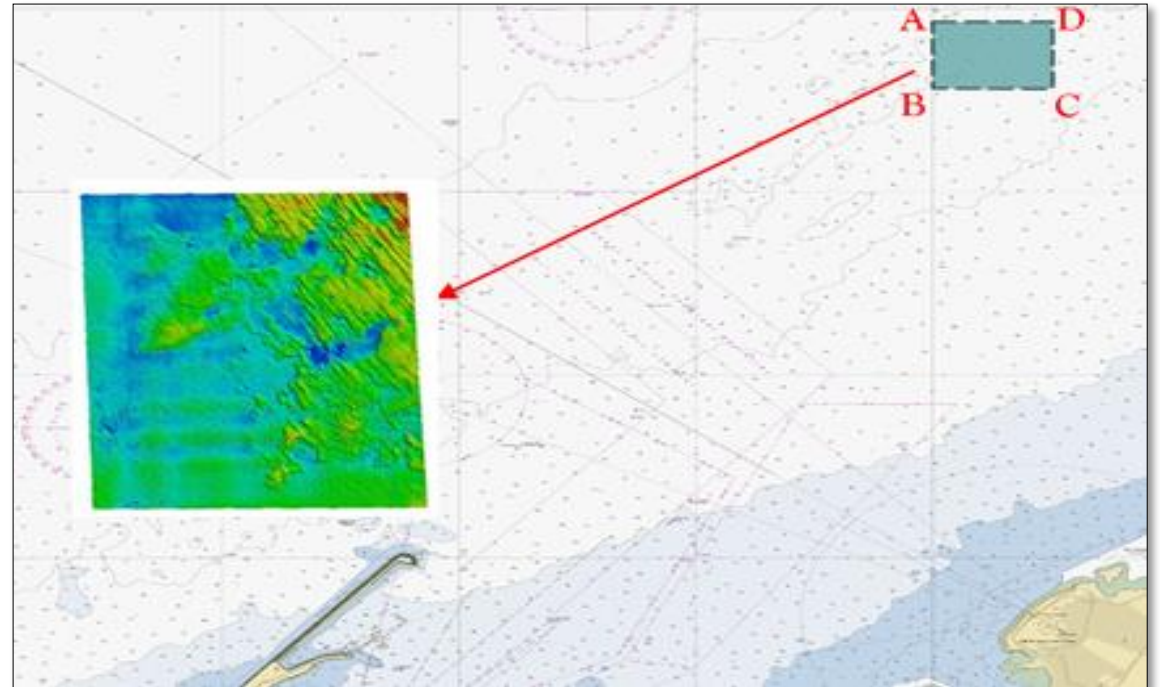
Key Achievements : Hydrography

Hydrographic Survey in
the Approaches of M'diq
port (2024)



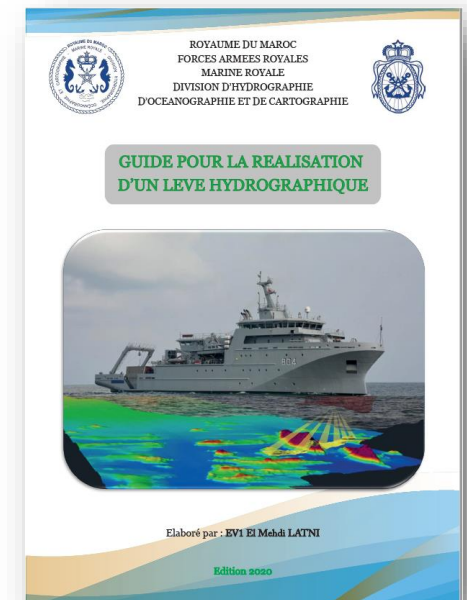
Key Achievements : Hydrography

Creation of a bathymetric
reference area (2022)



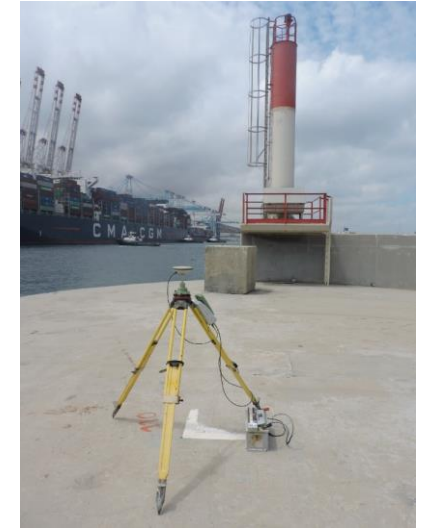
Key Achievements : Hydrography

Publication of the Moroccan hydrographic standard (2023)



Key Achievements : Topography

- Nador West-Med (2023)
- Tanger-Med (2023)
- M'diq (2023)



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Key Achievements : Aids to Navigation

- Notices to Mariners (Every 15 days)
- Navigational warnings



البحرية الملكية
قسم الهيدروغرافيا و علم المحيطات
و الخرائط البحرية

Número : 128/ DHOC/2024 Casablanca, le 14.06.2024

AVIS AUX NAVIGATEURS

Objet : **Activité aérienne**

Il est porté à la connaissance des navigateurs qu'une activité aérienne aura lieu du 16.06.2024 au 15.09.2024 de 00H00 à 23H59 UTC, dans la zone délimitée par les coordonnées géographiques suivantes :

Limites latérales :

P1 : L = 35° 13' 02,19" N — G = 004° 23' 28,67" W;
P2 : L = 35° 15' 18,05" N — G = 004° 05' 42,10" W;
P3 : L = 35° 12' 53,68" N — G = 004° 01' 04,31" W;
P4 : L = 35° 16' 12,23" N — G = 004° 01' 04,25" W;
P5 : L = 35° 18' 56,89" N — G = 003° 52' 57,63" W;
P6 : L = 35° 04' 56,38" N — G = 003° 52' 30,94" W;
P7 : L = 35° 02' 25,97" N — G = 004° 20' 19,88" W;
P8 : L = 35° 13' 02,19" N — G = 004° 23' 28,67" W.

Limites verticales : GND=5000 FT AGL.

- Annuler cet AVINAV le 160001 (UTC) septembre 24

Signature
Le Capitaine de Vaisseau
Mouad TAFFIY
Chef de la Division Hydrographique
Océanographique Cartographique
de la Marine Royale

البحرية الملكية و علم المحيطات و الخرائط البحرية
القسم الهيدروغرافي و علم المحيطات و الخرائط البحرية
الرقم : 128/ DHOC/2024 تاريخ الصدق : 14.06.2024
العنوان : شارع محمد السادس، الدار البيضاء، المغرب (06 50 89 08 20) :الفاكس (06 50 89 08 20) :البريد الإلكتروني (dhooc-cdr@mar.ma)



البحرية الملكية
قسم الهيدروغرافيا و علم المحيطات
و الخرائط البحرية

Número : 130/ DHOC/2024 Casablanca, le 14.06.2024

AVURNAV

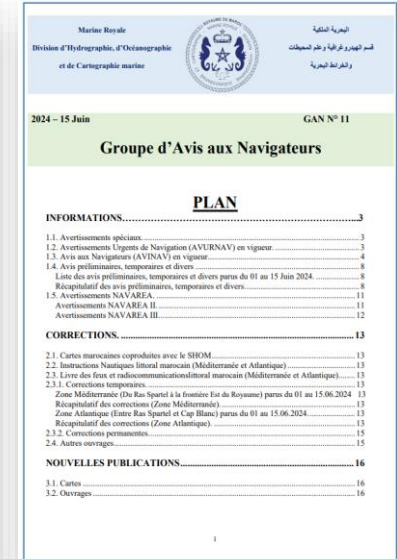
Objet : **Pose de capteur océanographique**

Il est porté à la connaissance des navigateurs que la Marine Royale a procédé ce jour, à la pose sur le fond, au port de Casablanca d'un capteur océanographique par position : L = 33° 36' 41" N - G = 007° 36' 30" W, par profondeur 11m.

- Un avis ultérieur vous fera connaître la date d'enlèvement dudit capteur.

Signature
Le Capitaine de Vaisseau
Mouad TAFFIY
Chef de la Division Hydrographique
Océanographique Cartographique
de la Marine Royale

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Marine Royale
Division d'Hydrographie, d'Océanographie
et de Cartographie marine

البحرية الملكية
قسم الهيدروغرافيا و علم المحيطات
و الخرائط البحرية

2024 - 15 Juin GAN N° 11

Groupe d'Avis aux Navigateurs

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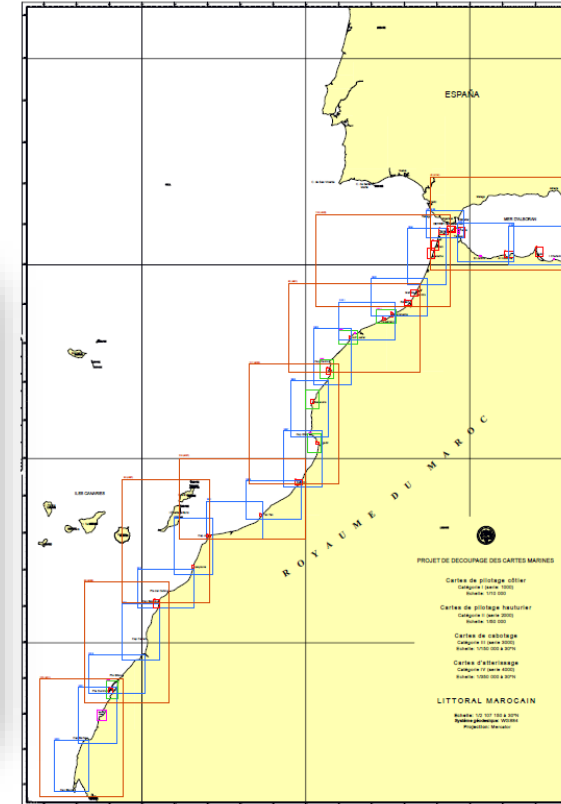
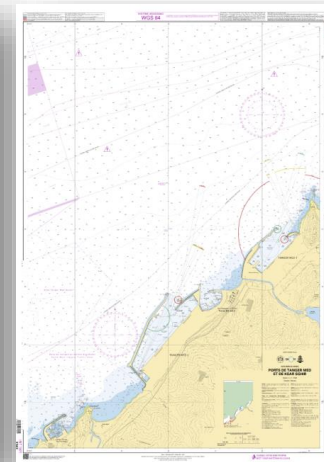
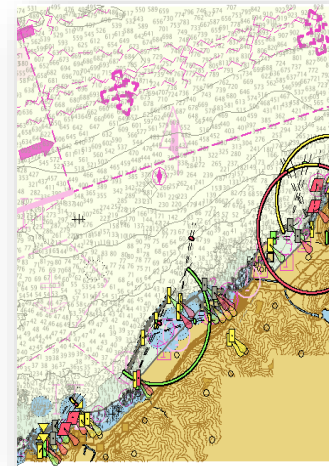
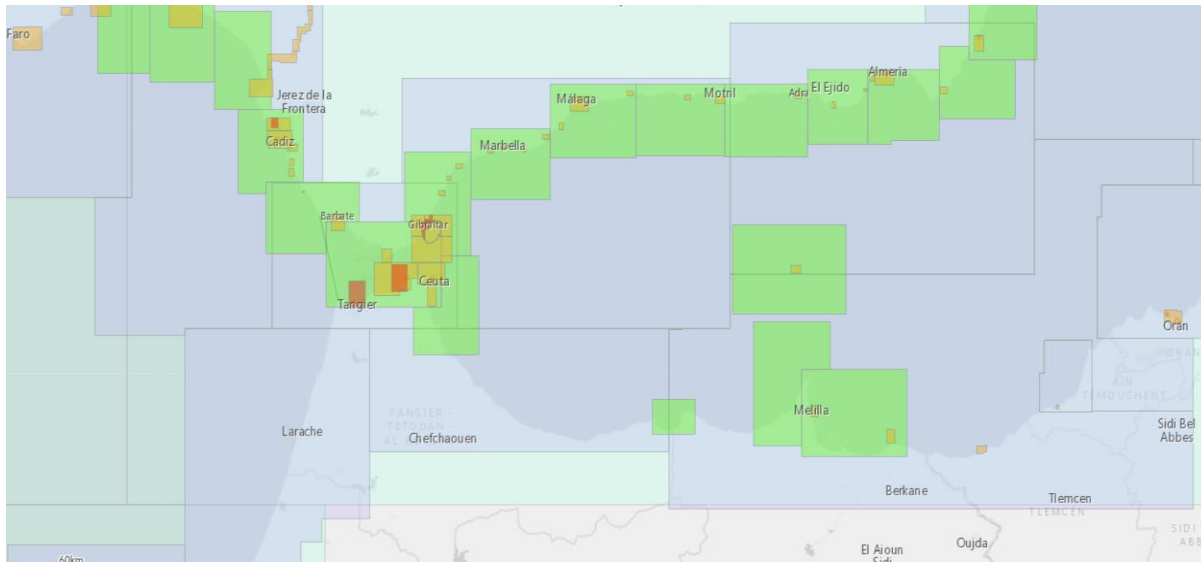
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1

Key Achievements : Nautical charts

- Publication of « Tanger Ville harbor's » chart (INT1969, 1/12 500)
- Publication of « Tanger-Med and Ksar Sghir harbor's » chart (2024) (INT1971, 1/12 500)



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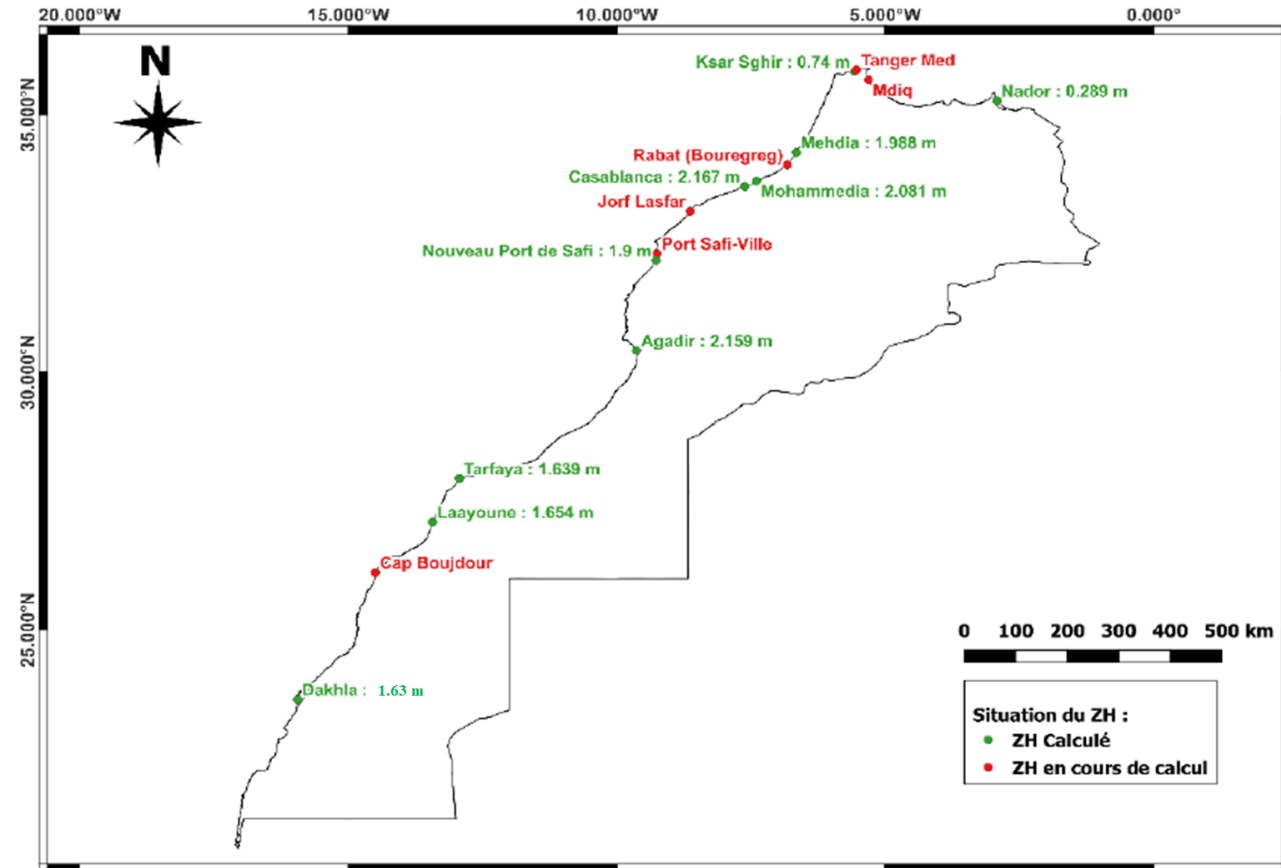
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Key Achievements : Tide gauges Network

- Installation of (05) Tide gauges
(M'diq - Tanger-Med)
- Determination of (04) Chart Datum 'CD'



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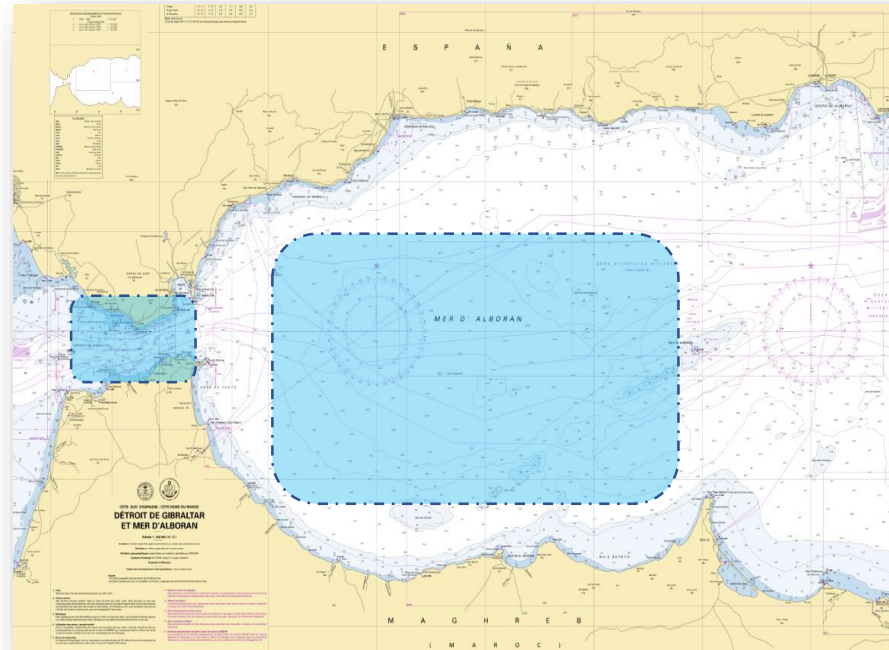


Key Achievements : Oceanography

- Oceanographic survey in Alboran sea



Characterization
of Western Alboran Gyre
'WAG'



- Oceanographic survey in Gibraltar straight



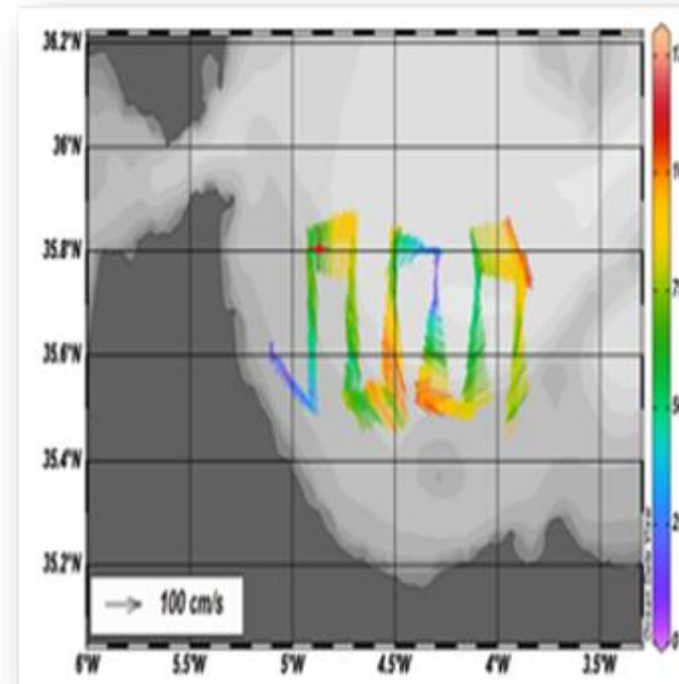
Classification of water
bodies in the study area

Key Achievements : Oceanography

- Oceanographic survey in M'diq



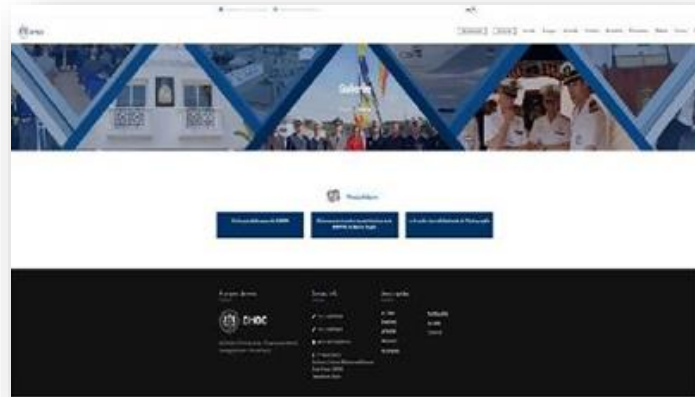
Classification of
water bodies in the
study area



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Key Achievements : Oceanography

- On-line of DHOC web-site (Since Sept 2023)

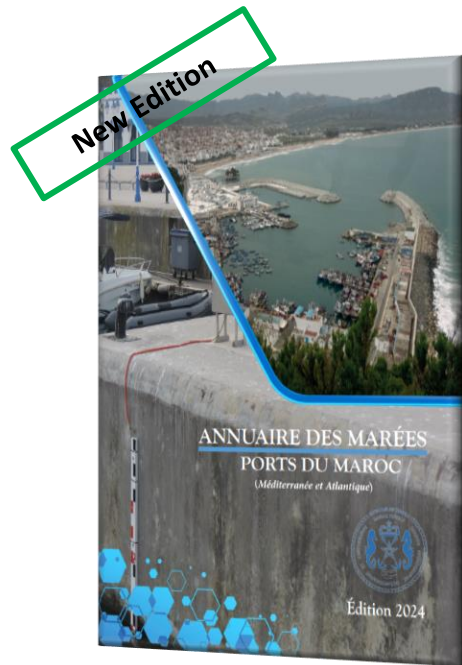


Key Achievements : Oceanography

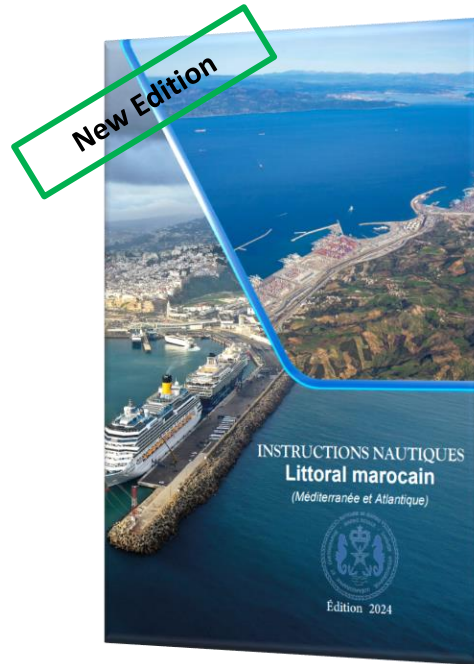
- A National action Plan ((04) actions) approved by the IOC/UNESCO (2022)
- Setting-up of National Committee related to the UN Decade of Ocean Science (2023)



Key Achievements : Other publications



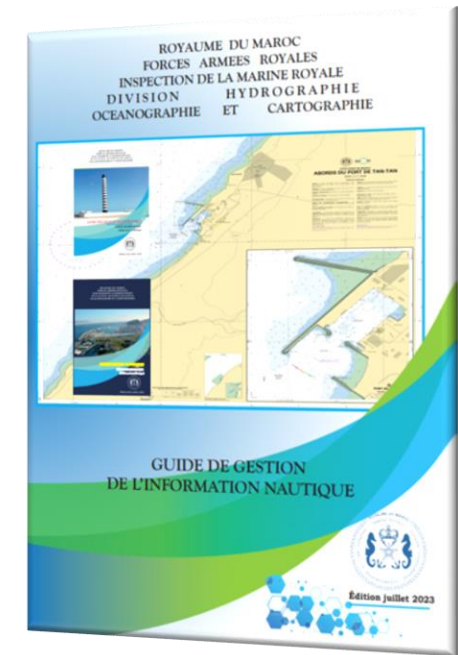
'Tide Tables of Moroccan Coasts - 2024'



'Sailing Directions Tide Tables of Moroccan Coasts - 2024'



'Lights & Radio-signals Tables of Moroccan Coasts - 2024'

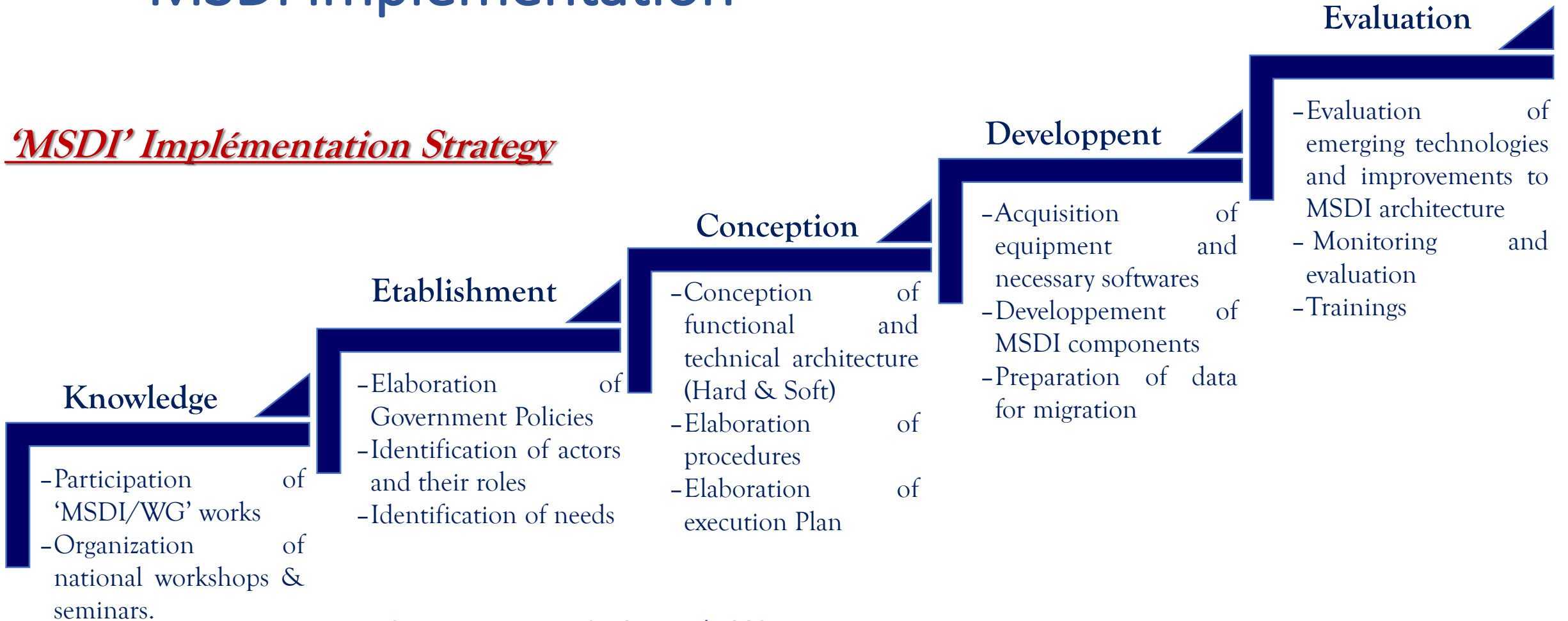


'Management of Nautical Information' Book

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MSDI implementation

'MSDI' Implémentation Strategy






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S-100 implementation

2027	2028	2029	2030	2031	2032	2033
S-101	S-102	S-124	S-104	S-128	S-122	S-127
			S-111	S-121	S-131	S-123
						S-129

Main challenges

<p>1</p> 	<p>2</p> 	<p>3</p>  <p>FEDERATION INTERNATIONALE DES GEOMETRES ORGANISATION HYDROGRAPHIQUE INTERNATIONALE ASSOCIATION CARTOGRAPHIQUE INTERNATIONALE</p> <p>FIG IHO ICA/ACI</p> <p>NORMES DE COMPETENCE POUR LES HYDROGRAPHES DE CATEGORIE « B »</p>
<p>Implementation of the S-100</p>	<p>Setting-up of a MSDI</p>	<p>Setting-up of a 'CAT-B' Hydrography Training Course</p>

Other activities

- Organization by DHOC of a ‘Training Day’ related to best practices in hydrographic Surveys (2022)
- Participation in the meetings of National Committee for Coordination in the fields of Hydrography, Oceanography and Cartography (NCHOC)
- Seminar “Adaptation of Coastlines to climate change and protection of marine environment” (‘5+5 Defence Initiative’ - Morocco - October 2023)



‘Hydrography Training Day’ - 2022



‘5+5 Defence Initiative’ - 2023

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Lessons Learned

- ❖ Need for more capacity building activities in the region, mainly ‘Personnel Training’
- ❖ Importance of bilateral cooperation between Hydrographic Services (DHOC – Shom – IIM – IHM – IHP - ...)



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Conclusion / Proposals /Actions required from MBSHC

- ❖ Reinforce State Capacity by organizing Training Workshops (S100, MSDI...)
- ❖ Organize cross-visits for expertise sharing between Hydrographic Services



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THANK YOU FOR YOUR ATTENTION

Constanta, Romania

2 – 4 July 2024



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