



21st MBSHC – KINGDOM OF MOROCCO

11 to 13 June 2019, Cadiz, SPAIN



Plan

- I** **Division Hydrographie, Océanographie et Cartographie**
- II** **Surveys and new equipment**
- III** **New Charts and Editions**
- IV** **New Publications**
- V** **Capacity building**
- VI** **Other activities**



I. Division Hydrographie, Océanographie et Cartographie



Division Hydrographie, Océanographie et Cartographie



- ❑ The Hydrographic service of the Royal Moroccan Navy was founded in 1986 with the assistance the Naval Oceanographic Office of the USA (NAVOCEANO), under the name of SHOMAR, then it became Division Hydrographie, Océanographie et Cartographie (DHOC) in 2007.
- ❑ Signing of an administrative arrangement with SHOM.
- ❑ In october 2014, the Royal Moroccan Navy was tasked, to take charge of hydrography, océanography and marine cartography in the waters under national jurisdiction, in the atlantic ocean and in the méditerranéan sea.
- ❑ By Royal Dahir N°1-14-84 of 20 Octobre 2014, the DHOC became the National hydrographic Service.



Division Hydrographie, Océanographie et Cartographie



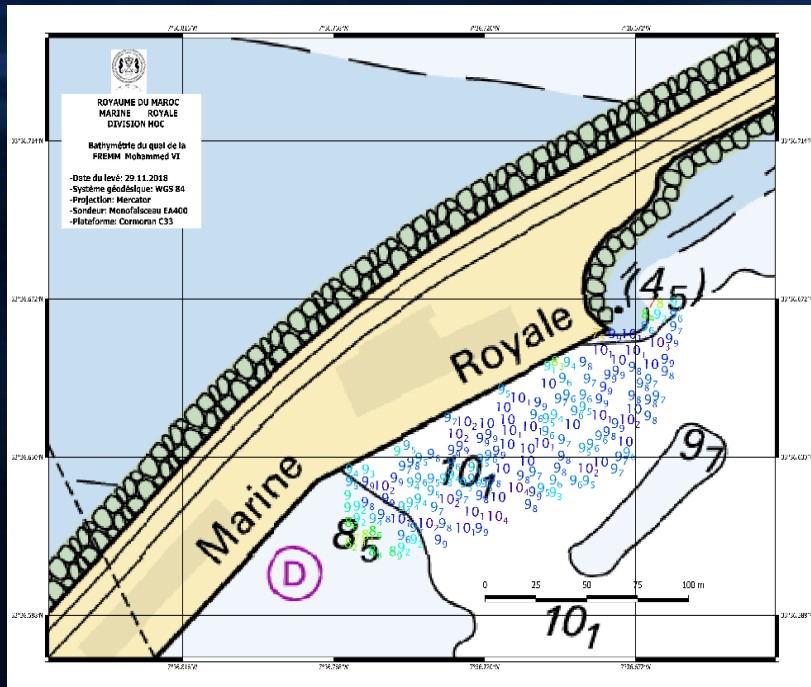
- The DHOC is tasked to conduct surveys in waters under national jurisdiction, collect data, elaborate and disseminate marine charts and nautical documents, coordinate and exchange informations with public services , related to the domains of hydrography, océanography and marine cartography and représent the Kingdom of Morocco to the IHO and the Regional Commissions.



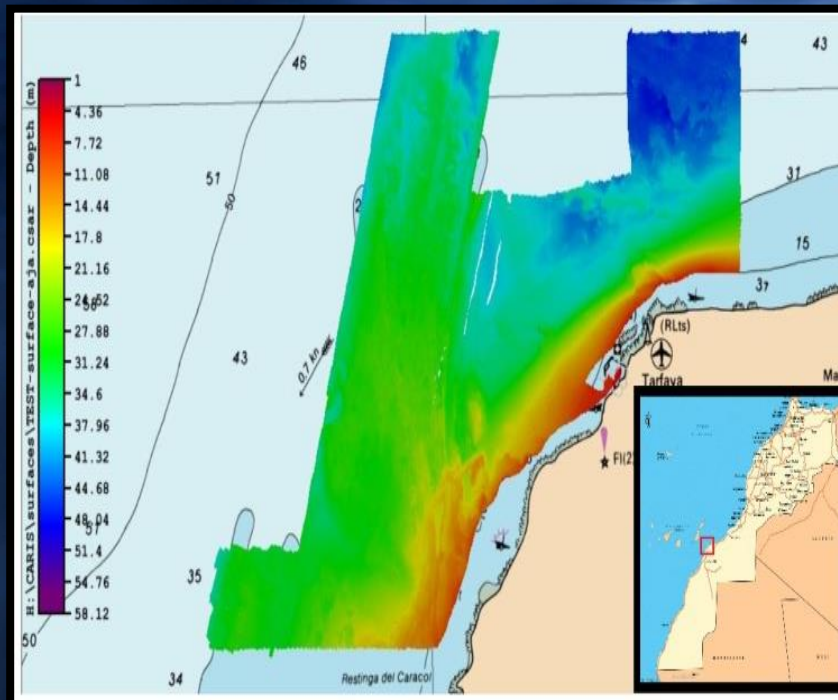
II. SURVEYS AND NEW EQUIPMENT



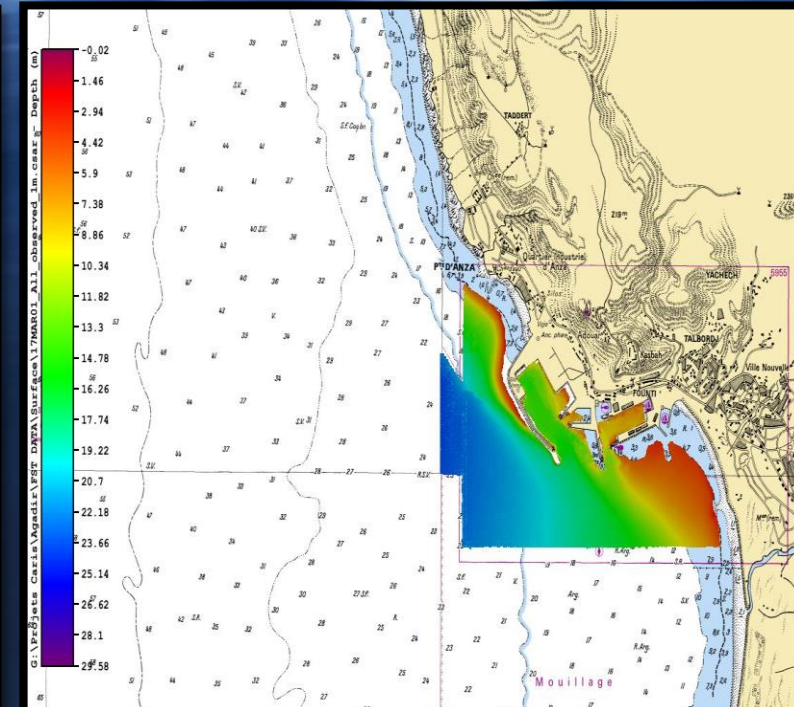
Recent Surveys



Port of Casablanca Casablanca



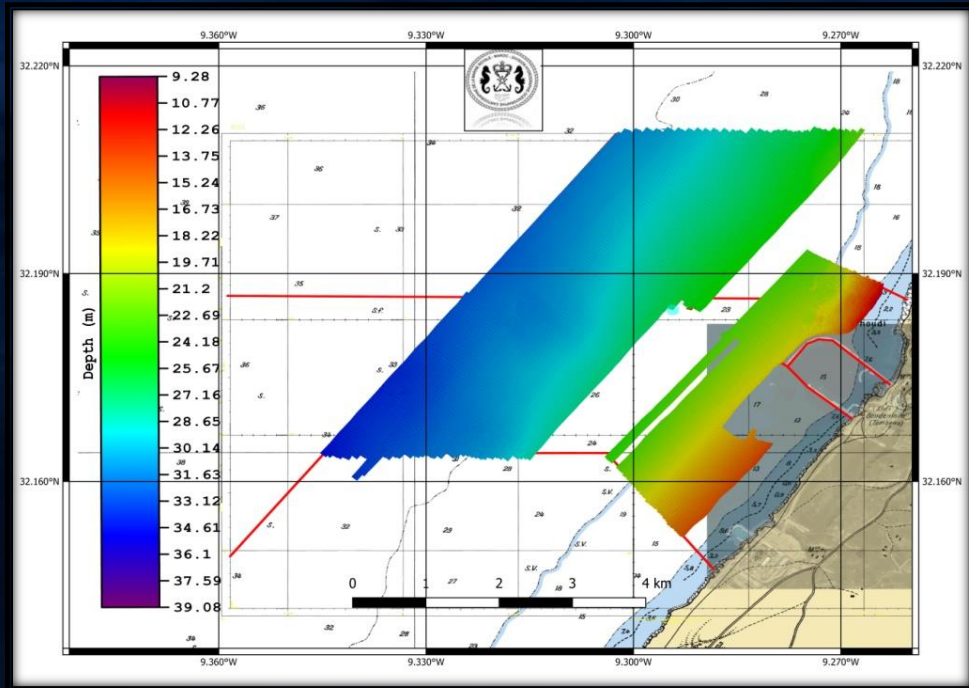
Survey of the port de Tarfaya and its approaches



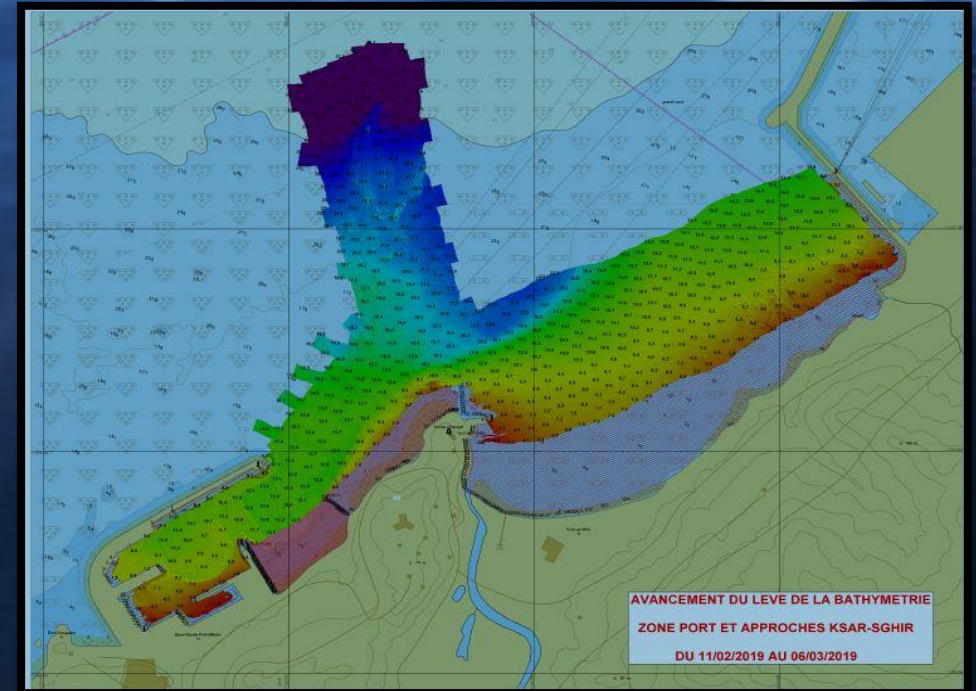
Survey of the port of Agadir and its approaches



Recent Surveys



New port of Safi and its approaches (45%)



port de Kser-Sghir and its approaches (90%)



New Equipements



- A new génération hydro-océanographique vessel of 72 m équipé with two hydrographic skiffs and a large panel of equipment allowing acquisition, traitement of bathymetric data and oceanographic parameters and to conduct geophysic measures. The ship was built by the french shipyard Piriou in Concarneau



BHO2M '*DAR AL BEIDA*'

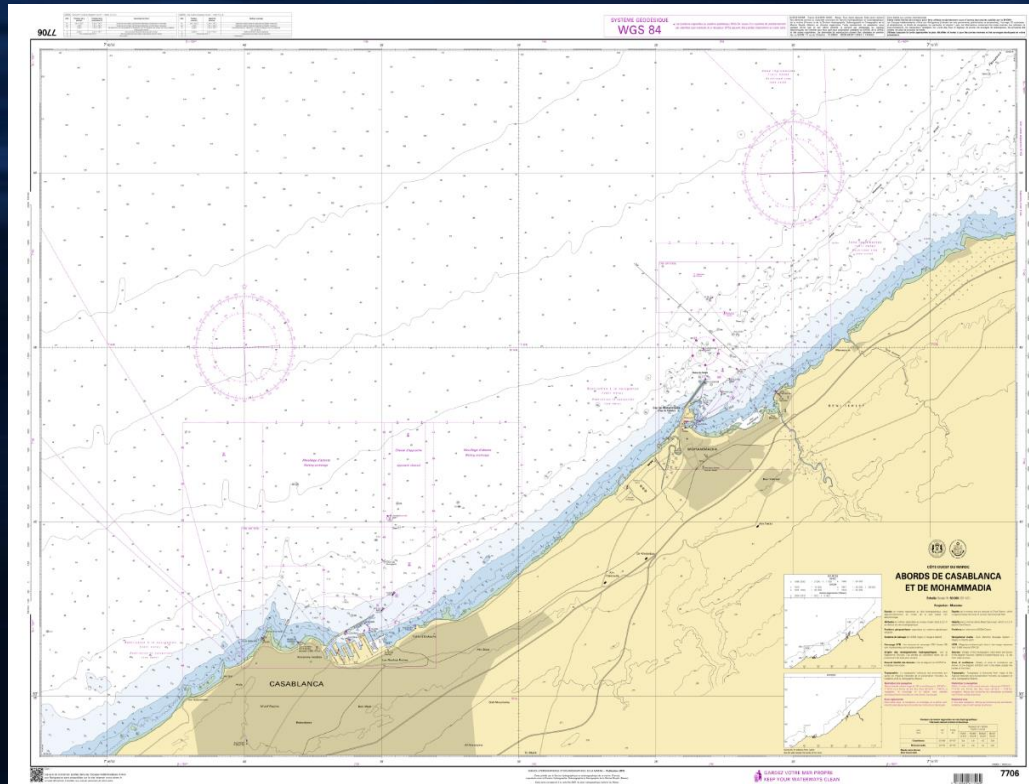


III. New Charts and Editions

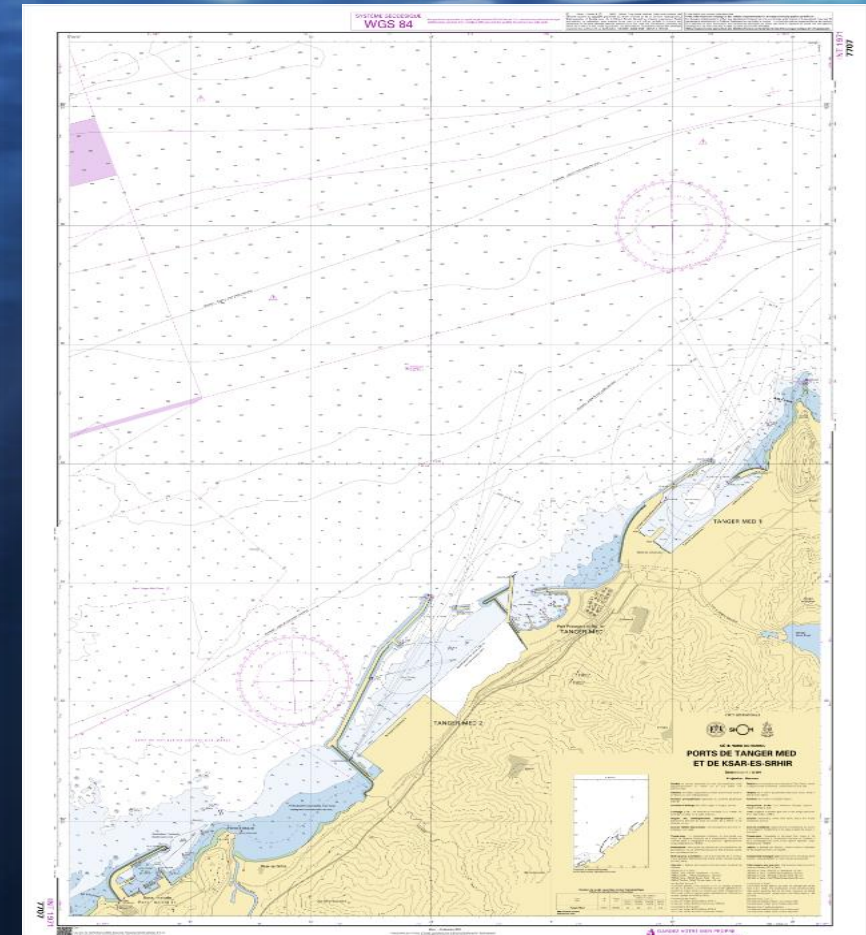


New Charts and Editions

Paper charts



Marine Chart "Abords de Casablanca et de Mohammedia", à l'échelle de 1/50.000 (2016)

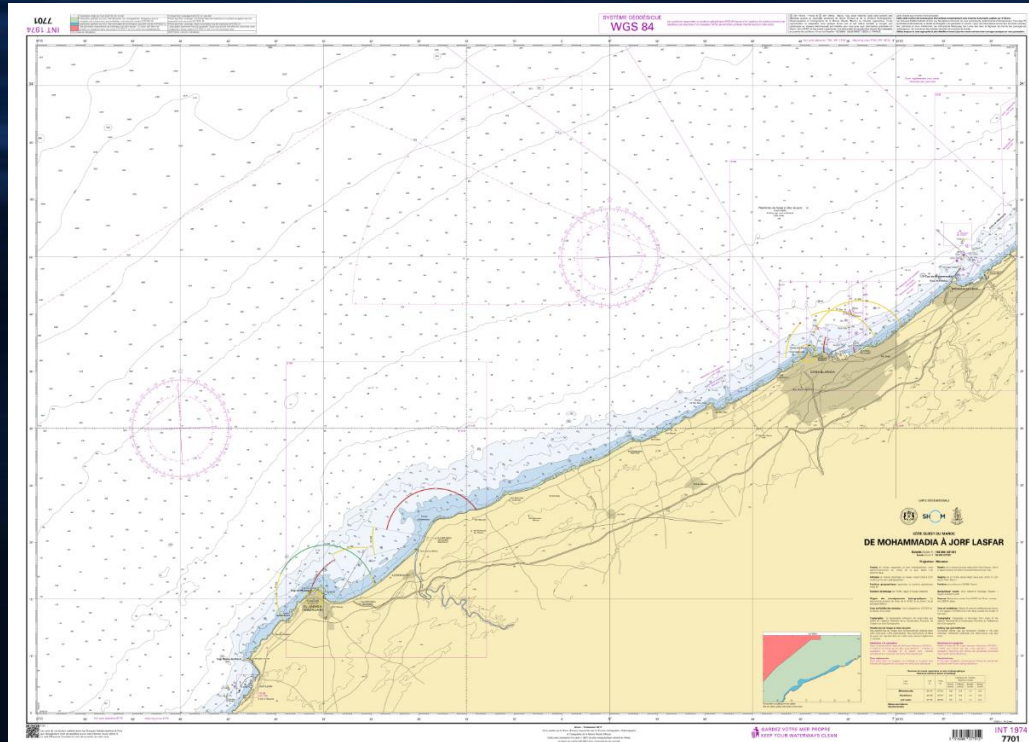


Marine Chart "Ports de Tanger Med et de Ksar-Es-Srhir", à l'échelle de 1/12.500 (2017)

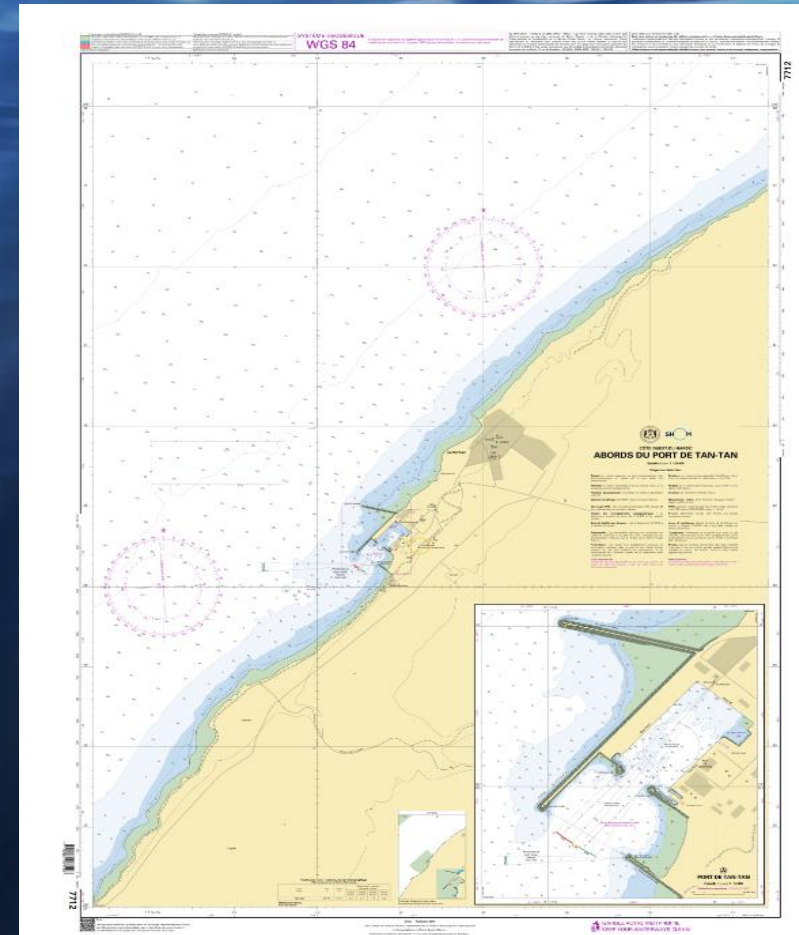


New Charts and Editions

Paper charts



Marine Chart "De Mohammedia à Jorf Lasfar",
à l'échelle de 1/150.000 (2017)



Marine Chart "Abords du port de Tan-Tan" à
l'échelle de 1/20.000 (2019)



New Charts and Editions (ENC)



New publications:

- Carte N° FR477060 "Abords de Casablanca et de Mohammedia" - Côte Ouest du Maroc ;
- Carte N° FR377010 "De Mohammedia à Jorf Lasfar" - Côte Ouest du Maroc ;
- Carte N° MA1114 "Ports de Tanger Med et de Ksar-Es-Srhir" - Côte Ouest du Maroc ;
- Carte N° FR577120 "Abords du port de Tan-Tan" - Côte Ouest du Maroc.

New éditions:

- Carte N° FR377020 "De Mehdià à Mohammedia" - Côte Ouest du Maroc.



New Charts and Editions: Marine charts in the process of co- production with Shom



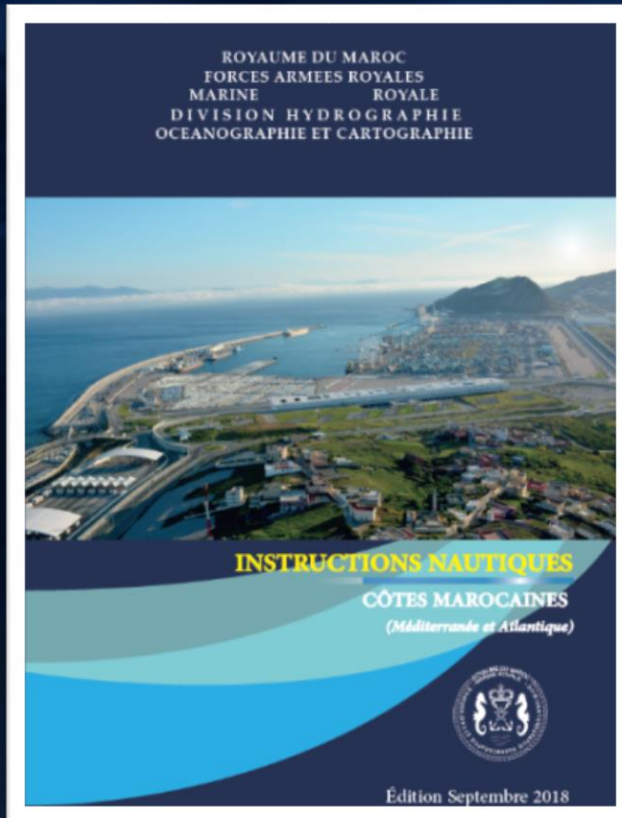
- "De Jorf Lasfar à Oued Tenmsift" à l'échelle de 1/150.000 ;
- "Port de Tanger Ville" à l'échelle de 1/12.500 ;
- "Rade de Safi" à l'échelle de 1/10.000 ;
- "Rade et Port d'Agadir" à l'échelle de 1/10.000 ;
- "Port de Tarfaya et ses approches" à l'échelle de 1/10.000.



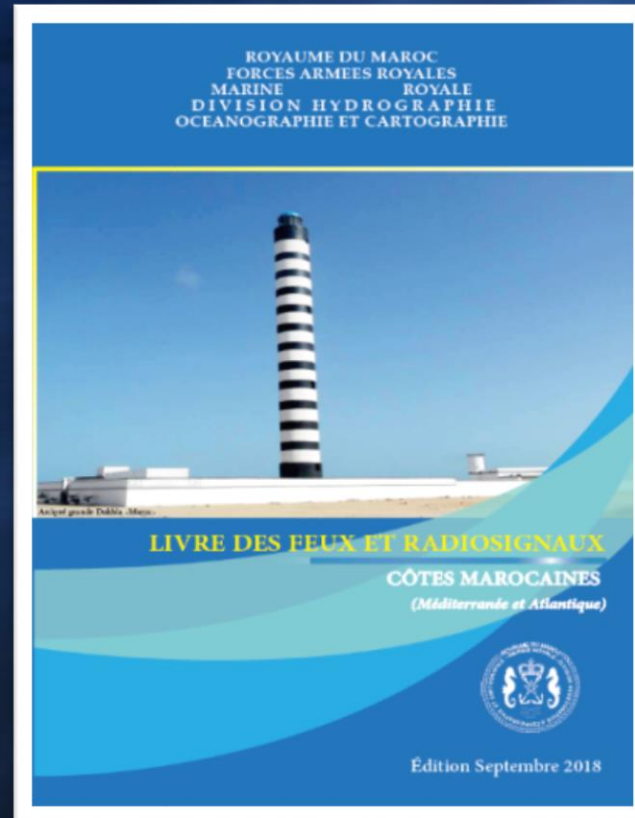
IV. New Publications and updates



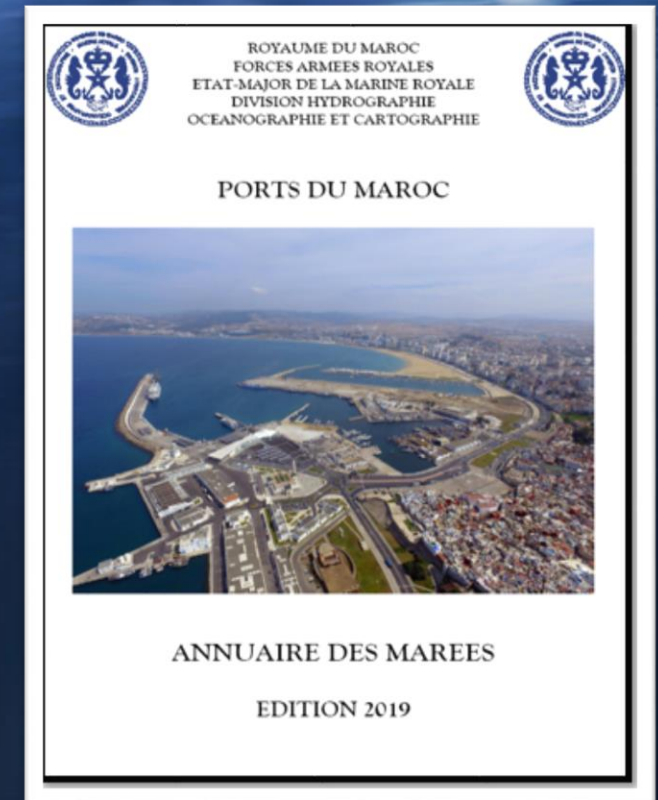
New Publications and updates



Notices to Mariners



List of Lights and Radiosignals



Tide tables



V. Capacity Building



Capacity Building: Trainings



Outside Morocco

- Training of three (03) Hydrographic engineers at ENSTA-Bretagne, Brest.
- Training of un (01) électricien at ENSTA-Bretagne, Brest.
- Training of one (01) hydrographic Officer catégorie A at *Instituto Hidrografico de la Marina*, (IHM) Cadix.
- Training of one (01) hydrographic officer catégorie A at *Instituto Hidrografico* (IH) of the portuguese Navy, Lisbon.
- Training of one (01) Officier hydrographic officer catégorie B at *Istituto Idrografico della Marina* (IIM), Gênoa.
- Participation of one (01) Officier at a ENC Validation course South Korea.
- Training of one (01) Officier in validation of Hydrographic data at Shom, Brest.
- Training of (01) Officier in validation of cartographic data at Shom, Brest.
- Training of one (01) Officier in SYSPROD Program at Shom, Brest.
- training of two (02) Technicians at Shom, Brest.

In Morocco

- Training of two batches of technicians (15 and 8) in Hydrography at the training Center for enlisted personnel in Casablanca.



Capacity Building: *Trainings in process*



- Training of one (01) Hydrographic engineer at ENSTA-Bretagne, Brest .
- Training of one (01) Electronician at ENSTA-Bretagne, Brest.



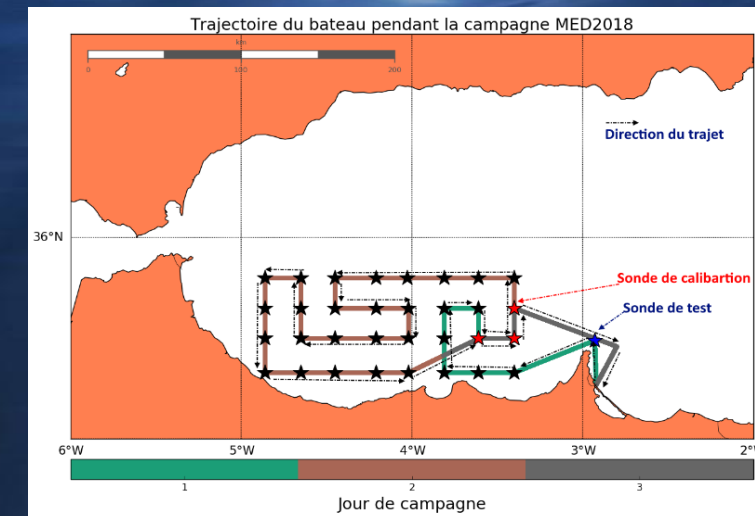
VI. Other Activities



Autres activités: Activités in océanographie



- Oceanographic campaign in Alboran Sea (may 2018), to study WAG (Western Alboran Gyre) ;
- Développement of an application for tides predictions
- Installation of Tide Gauges in several ports ;
- Projet of bidimensional Hydrographic modélisation (2D) of the Port of Casablanca.



Campagne Océanographique
réalisée en mer d'Alboran



Other Activities



- Organisation the first Hydrographic day in Morocco on June the 21st 2018, with the support of the IHO
- Since May the 2nd 2018, DHOC is the National Coordinator of the Nautical Information
- Participation to the 15th EAHTC Conférence held in Lagos, Nigeria.



Thank You For Your
Kind Attention