

EMODnet Bathymetry / HRSM Avancement 2022

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EMODnet Bathymetry / HRSM Consortium

2009 :

Quelques partenaires seulement,
Couverture très partielle, résolution 500 mètres

...

2023

HRSM4 (High Resolution Seabed Mapping)
Plus de trente partenaires,
Budget : 2.8M€ sur deux ans

Couverture globale des mers européennes,
Large inventaire de données,
MNT global résolution ~120 mètres, extension Mer des Caraïbes

Contributions Ifremer

Traitement et synthèse de données
Catalogage de MNTs et développement WPS
Développement logiciel Traitement bathymétrie Globe

Nouveau portail EMODnet

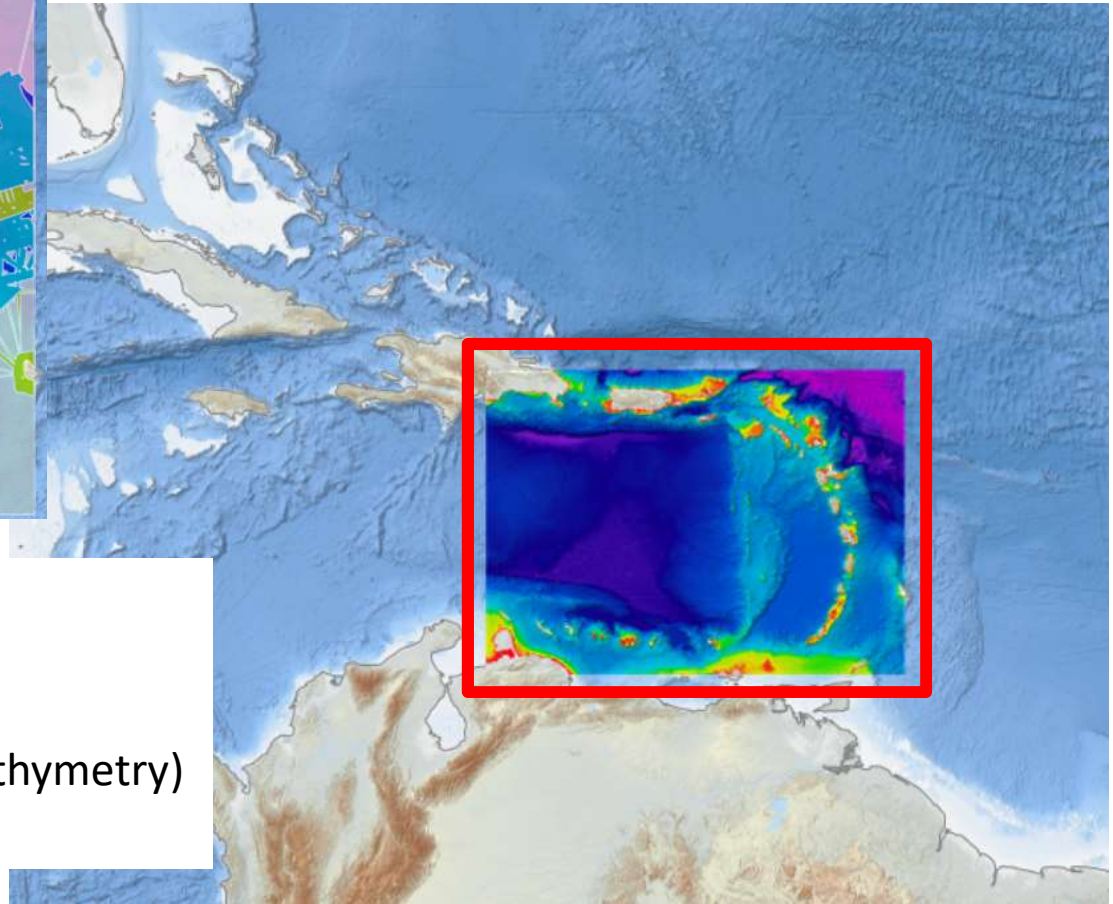
<https://emodnet.ec.europa.eu/geoviewer>

The screenshot shows the EMODnet Map Viewer interface. On the left, a 'Layers' panel is open, listing various bathymetry options. A red box highlights the 'EMODnet Bathymetry' section, which includes 'Coastlines', 'Data quality', and 'Depth'. Under 'Depth', the 'High Resolution bathymetry' option is selected and highlighted with a red box. Below this, the 'DTM Tiles' section is also highlighted, showing 'Tile structure and download' checked. A text box with a white background and black text is overlaid on the interface, stating 'Couches bathymétrie MNT : Tuiles 3.75s / ~120 m'. The main map area displays a bathymetric map of the Caribbean region, with a grid overlay. A red arrow points from the text box to the map area. The interface also includes a search bar, a scale bar (1000 km), and a coordinate display (-125.24986, 81.27602). The EMODnet logo and 'European Marine Observation and Data Network' text are visible in the bottom right corner of the interface.

**Couches bathymétrie
MNT : Tuiles 3.75s / ~120 m**

Etendue de la zone EMODnet Bathy
Nouvelle zone = Mer des Caraïbes

2023 : Mer des Caraïbes



Contributions :

- France
- Pays-Bas
- Eomap : SDB (satellite derived bathymetry)
- Données externes : GMRT, Gebco

Couches de données complémentaires

EMODnet Map Viewer

EN English

Layers

- EMODnet Bathymetry
- Coastlines
- Lowest Astronomical Tide (LAT)
- Mean High Water (MHW)
- Mean Sea Level (MSL)
- OpenStreetMap (OSM)
- Data quality
- Age
- Combined
- Horizontal
- Purpose
- Vertical
- Depth
- DTM Tiles
- Tile structure and download

[+ Add external layers](#)

Marine regions:

Change basemap:

Legend

Age

- undefined
- >30 years
- 10 - 30 years
- 5 - 10 years
- < 5 years

Couches Data quality
Exemple : âge des données

Inventaire de données : accès aux métadonnées des données source

The screenshot displays the EMODnet Map Viewer interface. At the top, it features the European Commission logo and the text 'EMODnet Map Viewer' on the left, and a language selector set to 'English' on the right. The main interface is divided into a left-hand 'Layers' panel and a central map area. The 'Layers' panel includes a search bar and several expandable categories: 'Administrative units', 'EMODnet Bathymetry', 'Coastlines', 'Data quality', 'Depth', 'DTM Tiles', 'Source metadata', 'Global Survey Tracks/Polygons', 'Topography', 'EMODnet Biology', and 'EMODnet Chemistry'. Within the 'Source metadata' category, the 'Source Reference of the DTM' layer is checked and highlighted with a red rectangular box. Below this, there is an 'Add external layers' button. At the bottom of the panel, there are dropdown menus for 'Marine regions' and 'Change basemap'. The map area shows a topographic view of Europe with various colored overlays representing different data layers. On the right side of the map, there are navigation controls including zoom in/out, home, and 3D view options. The bottom left corner contains the EMODnet logo and the text 'EMODnet European Marine Observation and Data Network'. The bottom right corner features the EMODnet logo, the text 'EMODnet European Marine Observation and Data Network', and a small number '6'.

Inventaire de données EMODnet Bathy lien vers les infrastructures Ifremer

MNT : Lien Sextant et DOI

EMODnet European Marine Observation and Data Network

486_FRENCH_CARIBBEAN_ISLANDS_MULTIBEAM_GRIDDED_DATA_2020

Gridded multibeam data acquired during scientific surveys and transits of French research vessels from 1992 to 2017 off the French Caribbean Islands.

Data access
Link to the data services and to the full metadataset

What

Metadata details

File identifier	SDN_CPRD_486_MB_FR_CARIBBEAN_2020
Catalogue type	Product record
Project name	EMODNet Bathymetry
Dissemination level	public
Metadata language	English
Date stamp	2022-06-30T14:36:53.391Z

Description of data processing

The grid is extracted from a published DTM.

Ifremer Géosciences Marines, TALBOT Sophie, LOUBRIEU Benoit. Bathymétrie - Arc Antillais (synthèse, 2020). Ifremer

<http://dx.doi.org/10.12770/915d04a1-220f-4784-934c-c269a515e5a9>



Campagne à la mer : lien CDI et DOI

SeaDataNet PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

PROGRES CSR REF-NO : 20037019 [Download XML](#) [CDI](#)

GENERAL INFORMATION

DOI https://doi.org/10.17600/3020080	Platform/Ship Le Suroit
Cruise begin 21.07.2003	Cruise end 19.08.2003
Port of Departure Toulon, France	Port of Return Toulon, France
Chief Scientist(s) DROZ Laurence - Geo-Ocean - UMR 6538	
Responsible(s) Laboratory Geo-Ocean Laboratory, UMR 6538	

Pour les navires de la Flotte Océanographique Française,
le DOI est présent dans les catalogues EMODnet bathy

EMODnet Bathymetry et Sextant

3 catalogues

EMODnet Hydrography – Composite product

- catalogue pour la contribution des partenaires
- metadata record (265)

EMODnet Hydrography PRODUCT

- catalogue pour les produits diffusés par le projet
- 270 records : MNTs généraux + couches des MNTs locaux haute-résolution

EMODnet Hydrography – DTM Tiles

- décrit chaque tuiles du MNT - versions 2016, 2018, 2020 et 2022 (177 descriptions)
- usage direct pour le portail central

EMODnet Bathymetry et Sextant

Sextant
Infrastructure de données géographiques marines et littorales

Présentation Données Services Ressources

CATALOGUE CARTE MES TÉLÉCHARGEMENTS

Rechercher ...

Résultats 1 à 30 sur 191 : 30 par page

Abstract

- Dataset description abstract
- Description of processed data sources
- Description of data processing
- Processing software

Source: EMODnet

QUALITY

Accuracy / Calibration

- Horizontal Quality Indicator
- Vertical Quality Indicator
- Purpose Quality Indicator

Catalogues

Filtre

- EMODNET Hydrography - Composite (277)
Product metadata Record
- EMODNET Hydrography - DTM Tiles (191)
- EMODNET Hydrography - PRODUCT (270)

EMODnet
European Marine Observation and Data Network

Extrait du template EMODnet bathy

- Indicateur qualité propre au projet
- Lien vers les catalogues Ifremer (MNTs Geo-Ocean)

Multibeam data acquired during the Trophal 1 survey. R/V Le Suroit, 2002, EM300 multibeam system.

Survey and data identifier

<https://doi.org/10.17600/2020050>

CDI : 486_65693, 486_65695

The grid is derived from the 60m DTM produced by the end of the survey.

Predicted tide correction applied.

Sextant catalogue : <https://sextant.ifremer.fr/Donnees/Catalogue#/metadata/ae635c40-c55a-11df-a9b6-005056987263>

BOURILLET J.F., ZARAGOSI S., MULDER T. (2006) - The French Atlantic margin and the deep sea submarine systems. *Geo-Marine Letters*, 26, 6, pp. 311-315.

MB-System

★ DOI source des données

★ Lien vers produits Sextant associés

3 - < 20 m

2 - MBES low frequency (lower than 100kHz) (similar than 1+2%d)

2 - Bathymetric/morphologic survey

EMODnet Bathymetry et Sextant

Espace collaboratif

Objectif : environnement collaboratif Web entre partenaires du projet

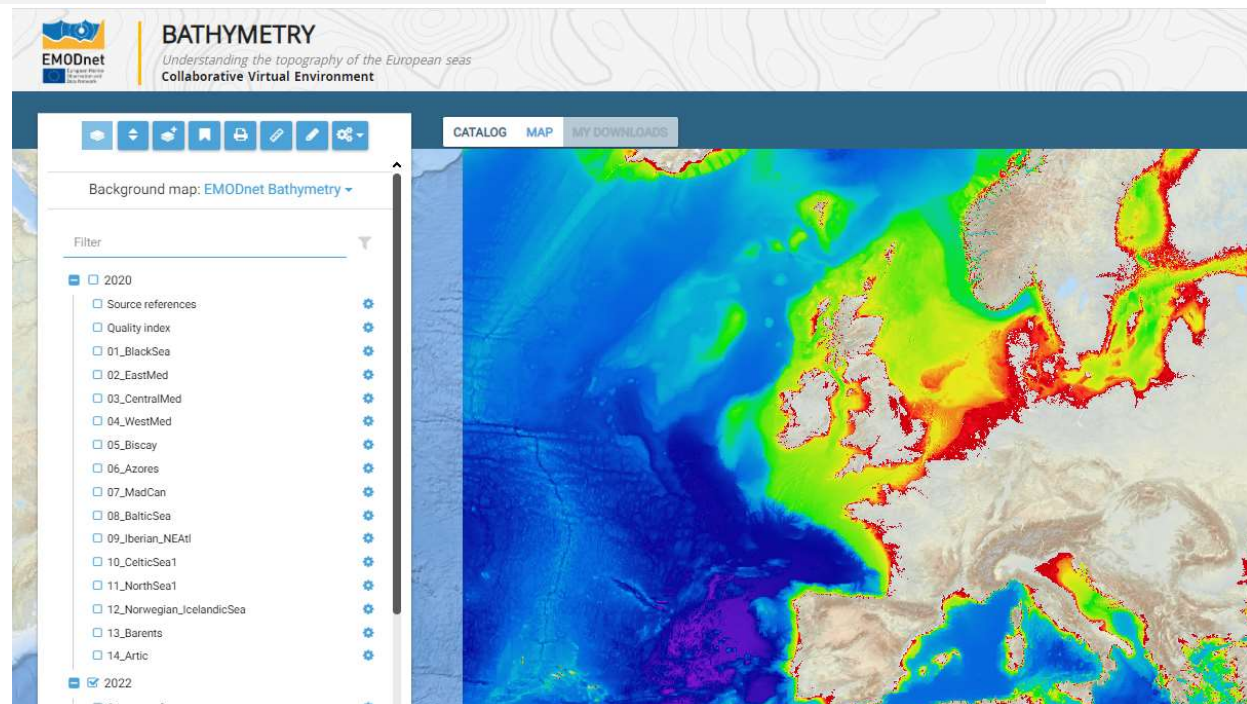
Visualisation de 2 versions successives des MNTs EMODnet Bathy

Outils d'analyse des MNTs et de leur différentiel

Partage d'annotations et commentaires

Environnement de développement Sextant

Projet Qgis dédié



EMODnet Bathymetry et Sextant Espace collaboratif

BATHYMETRY
Understanding the topography of the European seas
Collaborative Virtual Environment

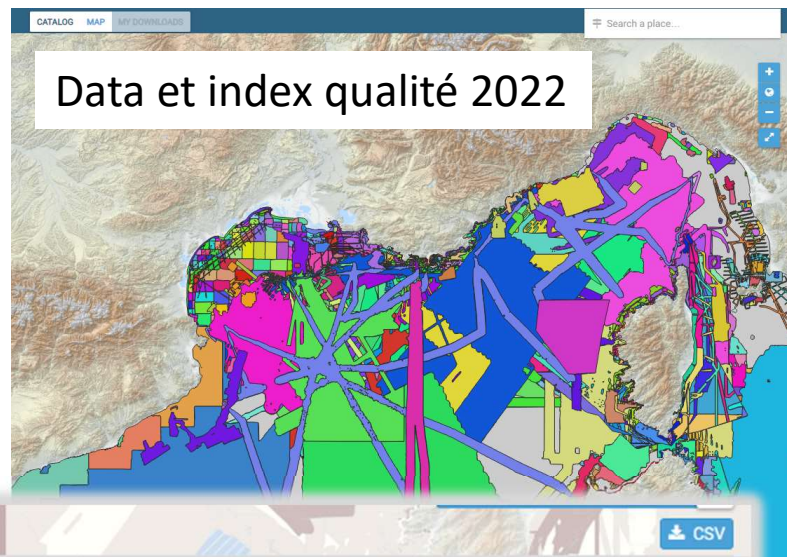
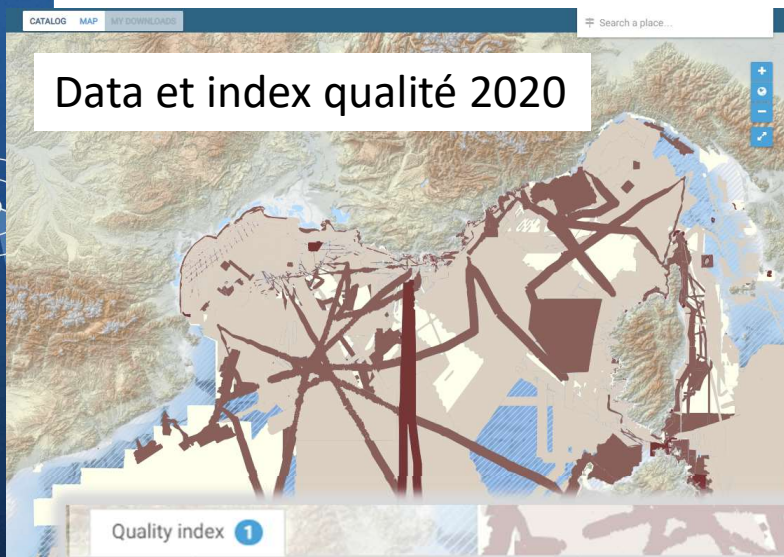
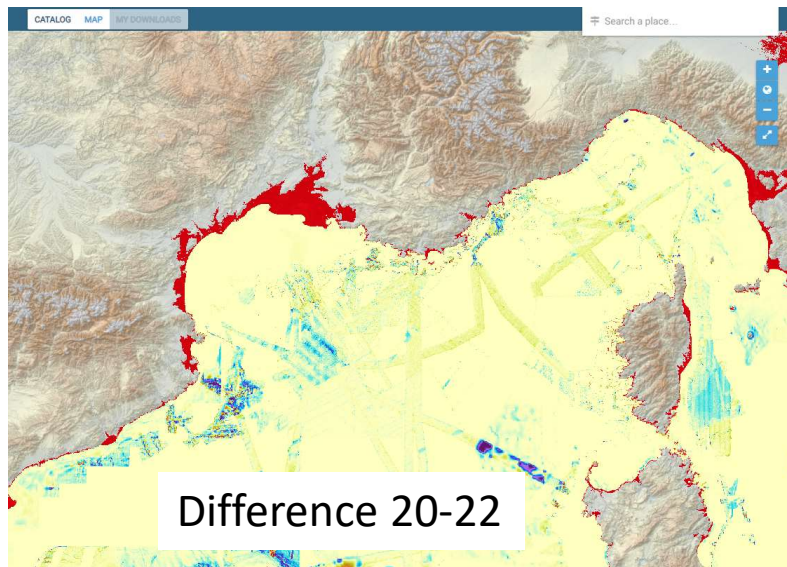
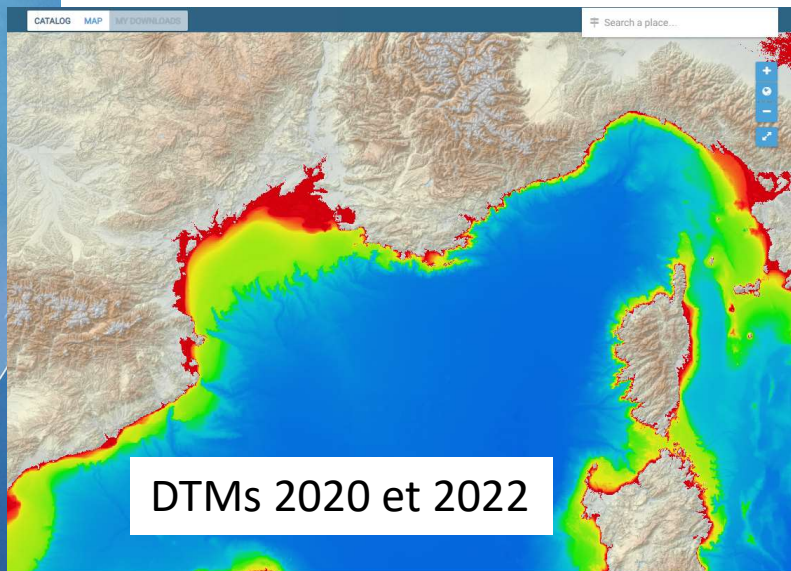
CATALOG MAP MY DOWNLOADS

Search a place...

- 2020
- 2022
- Sources references
 - 01_BlackSea
 - 02_EastMed
 - 03_CentralMed
 - 04_WestMed
 - 05_Biscay
 - 06_Azores
 - 07_MadCan
 - 08_BalticSea
 - 09_Iberian_NEAtl
 - 10_CelticSea
 - 11_NorthSea
 - 12_Norwegian_IcelandicSea
 - 13_Barents
 - 14_Artic
- Difference 2020-2022
 - 01_BlackSea
 - 02_EastMed
 - 03_CentralMed
 - 04_WestMed
 - 05_Biscay
 - 06_Azores
 - 07_MadCan
 - 08_BalticSea
 - 09_Iberian_NEAtl
 - 10_CelticSea
 - 11_NorthSea
 - 12_Norwegian_IcelandicSea
 - 13_Barents

LAYER OPTIONS

Visualisation multi-couche



Quality index 1

CSV

start	date_end	edmo_id	identifier	type	combined	horizontal	vertical	age	purpose
01-01	2099-12-31	486	37583	CDI	61.53846	3	2	1	2

Analyse des données

Outils de traitement MNTs : WPS génériques + outils logiciel Globe

The image displays a workflow for bathymetry data processing in EMODnet. It features three main map panels and a central processing menu.

- Source des données:** A topographic map of the Mediterranean region showing the source data.
- Différentiel:** A map showing the difference between two datasets, with a color scale from 100 (yellow) to -100 (purple).
- Isobathes 2020:** A bathymetric map showing depth contours for the year 2020.
- Isobathes 2022:** A bathymetric map showing depth contours for the year 2022.

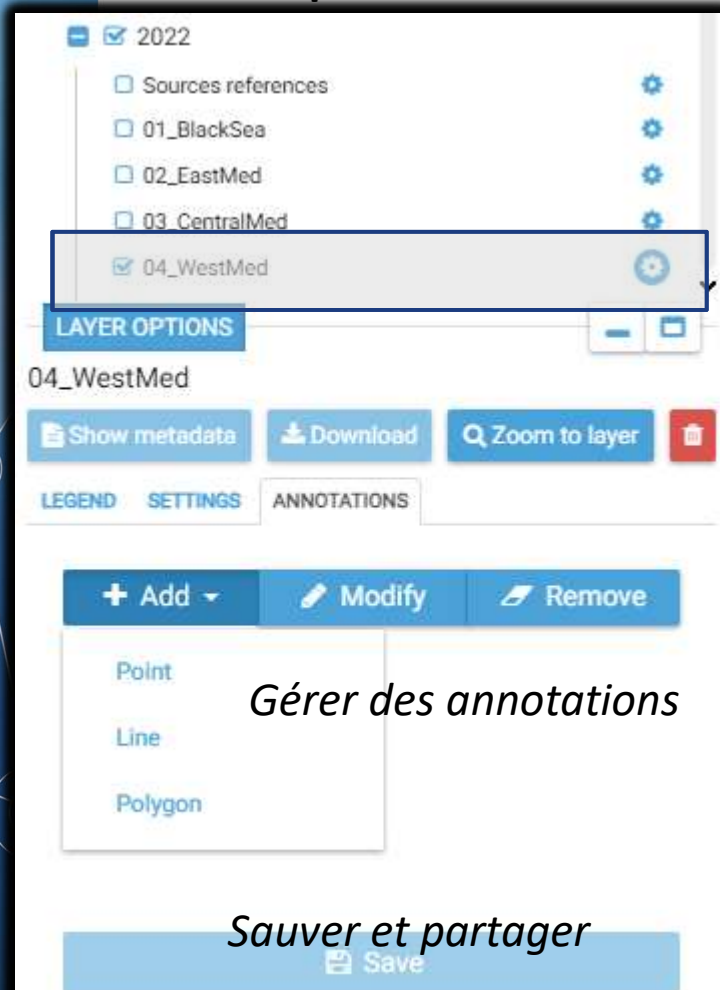
A central menu lists the processing tools used:

- MNT contour
- MNT clip
- MNT hillshade
- MNT slope
- Peak detector

The EMODnet logo and the text "European Marine Observation and Data Network" are visible in the bottom left corner.

Fonctions d'annotation

Fonctions pour l'annotation



2022

- Sources references
- 01_BlackSea
- 02_EastMed
- 03_CentralMed
- 04_WestMed

LAYER OPTIONS

04_WestMed

Show metadata Download Zoom to layer

LEGEND SETTINGS ANNOTATIONS

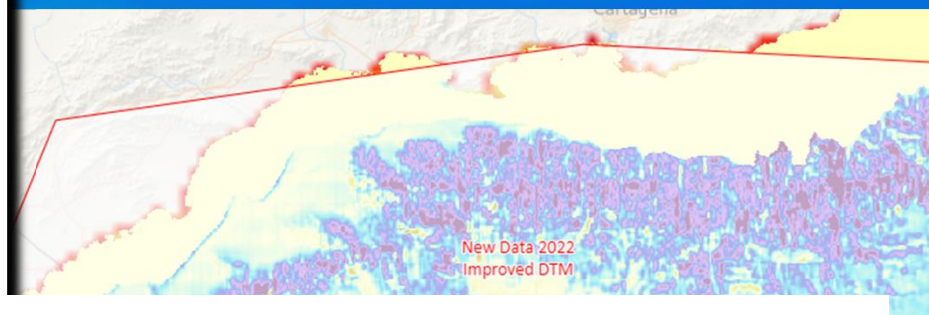
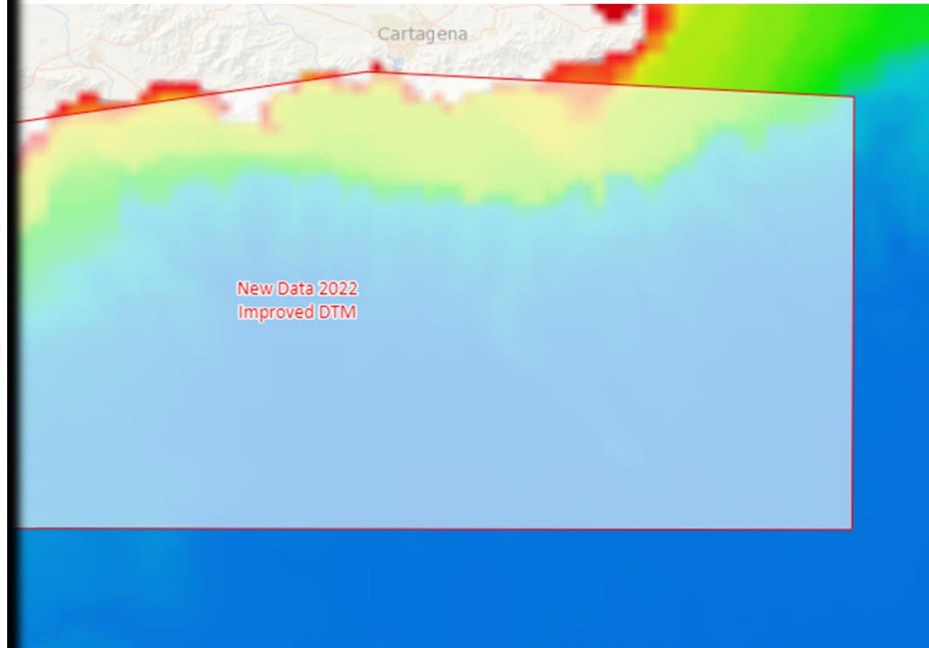
+ Add Modify Remove

- Point
- Line
- Polygon

Gérer des annotations

Sauver et partager

Save



Objectif :

- partage d'analyse et de commentaires entre les partenaires
- 12 coordinateurs régionaux
- Aide à la validation et à la correction des MNTs

Approche EMODnet Bathy

Généralisation pour les campagnes Ifremer

