



Old data & Chart Production

Inserimento rilievi idrografici nel Database

Metadata

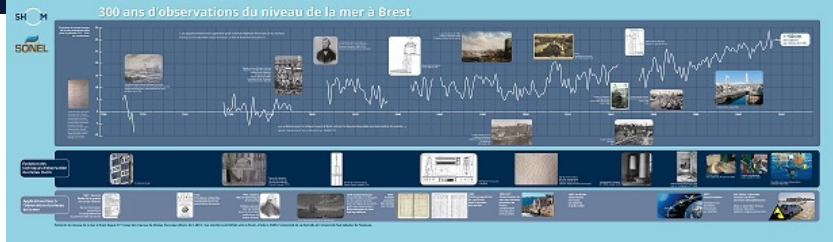
Field	Value
DATE	2010-01-01
COUNTRY	Italy
CODE	IT
NAME	Topographic survey
DESCRIPTION	Topographic survey
STATUS	Active
GEOREFERENCE	Georeferenced
PROJECTION	UTM
COORDINATE SYSTEM	WGS 1984
UNIT	Meters
DATA SOURCE	Historical data
DATA TYPE	Point
DATA DESCRIPTION	Topographic survey points
DATA STATUS	Final
DATA USAGE	Navigation
DATA ACCESS	Public
DATA FORMAT	CSV
DATA FILE	topo_survey_data.csv
DATA FILE LOCATION	C:\Data\topo_survey_data.csv
DATA FILE SIZE	100 KB
DATA FILE TYPE	CSV
DATA FILE EXTENSION	.csv
DATA FILE MIME TYPE	text/csv
DATA FILE ENCODING	UTF-8
DATA FILE DELIMITER	Comma
DATA FILE QUOTE CHAR	Double quote
DATA FILE ESCAPE CHAR	Backslash
DATA FILE HEADER	POINT_ID;X;Y;Z;ELEVATION
DATA FILE ROWS	1000
DATA FILE COLUMNS	5
DATA FILE ENTRIES	5000
DATA FILE SIZE (BYTES)	100000
DATA FILE SIZE (KB)	100
DATA FILE SIZE (MB)	0.1
DATA FILE SIZE (GB)	0.0001
DATA FILE SIZE (TB)	0.0000001
DATA FILE SIZE (PB)	0.000000001



IHO European Network

Plenary Session

27th Feb, French RP, Brussels



HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



- HOs have;

- 300 years old data or more
- Charts, Tide gauge,

These are historical documents to save **AND** precious data for the reconstitution of :

- ❖ Evolution of the coastal areas
- ❖ Modelling of climate change

They can work by State AND by Maritime Basins

HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



NETHERLAND

Gezicht op de stad Madeira

HET GEZICHT VAN DE STAD MADEIRA VAN DE REEDE
AF TOE GIEFT J. H. ENKELERS REIS VAN DE STAD.

Gezicht op de stad Madeira.
Op de voorgrond vele schepen, linksvoor een Oost-Indiëvaarder die de Nederlandse vlag voert.

vervaardiger	Rach, Johannes (tekenaar)
periode	ca. 1780
materiaal	papier
soort	tekening

Atlas of Mutual Heritage

uitgebreid zoeken toon informatie

Plan Satellite

Voc Wic overig gebieden landen posten forten

1. Only tide gauge records and nautical charts together provide a full understanding of the impact of long term water level change. Because of the very different nature of these data sets, they should be organized in different subprojects.

2. Historical tide gauge data are currently dealt with by GLOSS (IHO CL04/2012), with a liaison to the IHO TWCWG. A new European project could stimulate the GLOSS work enormously. In NL, tide gauge data for the past few decades is available through http://live.waterbase.nl/waterbase_wns.cfm?taal=en.

HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



BELGIUM

www.vliz.be/hisgiskust/en/image-library?album=4900&pic=111613



HisGISKust
Historical maps coastal zone

Hor



Descrittione ...di tutti i Paesi Bassi...
Oostende

Description Historical maps from the collection of Cultuurbibliotheek (Sint-Lodewijkscollege, Brugge), which were scanned by VLIZ in the framework of the project 'Historical maps of the coastal zone' (Funding: Province of West Flanders).

Author Guicciardini, Lodovico (1581)

www.vliz.be/hisgiskust/en/image-library



HisGISKust
Historical maps coastal zone

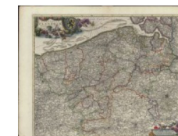
Home About Tut



1. Historical maps 16th century (6)



2. Historical maps 17th century (71)



3. Historical maps 18th century (20)



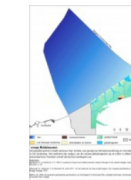
4. Historical maps 19th century (89)



5. Historical maps 20th century (54)



6. Geometric accuracy maps (129)



7. Paleogeographic maps (6)

Click on an image to select an album

HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



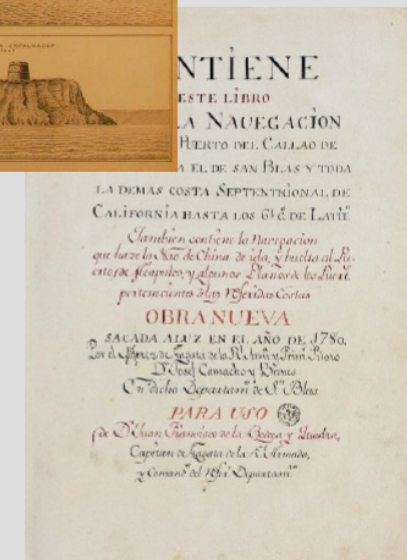
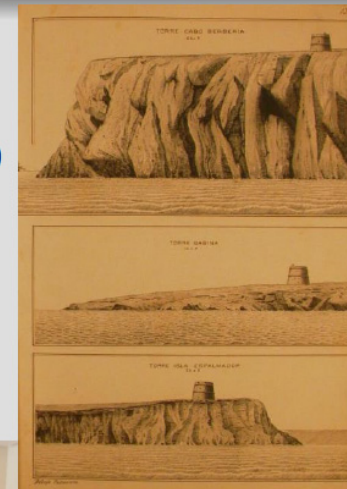
SPAIN



IHM HISTORICAL ARCHIVES



- 991 Copper plates (1740-1950)
- 5400 Nautical charts (1740-1970)
- 820 Surveys and documentation (1783-1950)
- 104 Annual memories (1944-2009)
- 455 Photographs (1944-1990)
- 75 Coastal views (1920-1960)
- 750 Historical documents (XIX-XX cent.)



HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



IHM HISTORICAL ARCHIVES

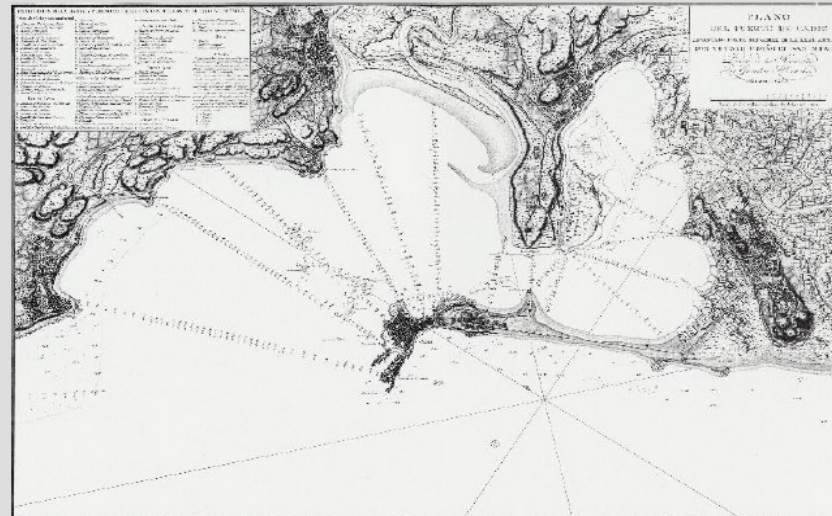


- Current works

Digitizing historical nautical charts and surveys, georeference and store them in a Database.

- Future Plans

Digitize 200 tide observation rolls (XIX cent.).



HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



Italian Hydrographic Institute (IIM) Archives Consistency



Over **18 000** paper documents including:

10 000 maps in rolls (geodesy, bathymetry and topography since 1872)

8 000 nautical charts since 1873

30 coastal views

150 packages containing documentation
survey

500 folders containing documents
nautical charts

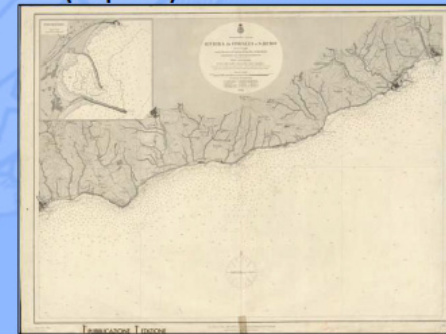
over 1000 Tide observation rolls from 1884 in Genova



Porto Maurizio (Imperia) - 1895



Nautical chart 122 Da Oneglia
(Imperia) a S. Remo -1886



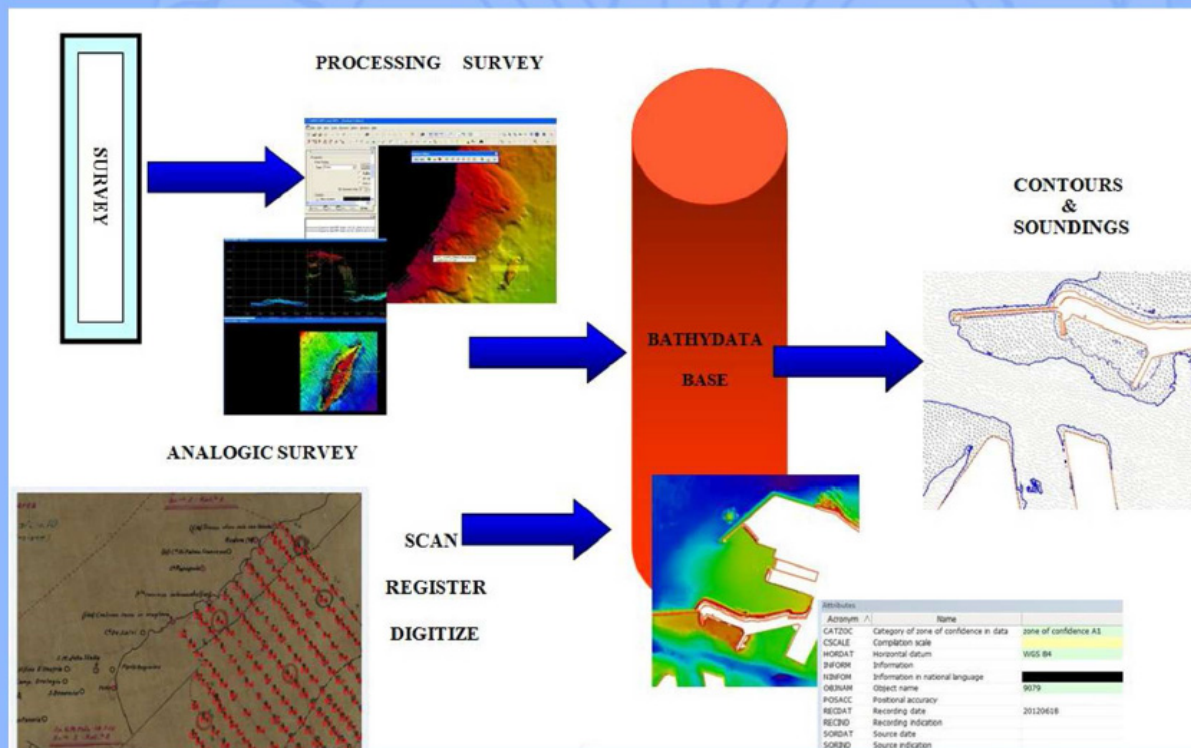
HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



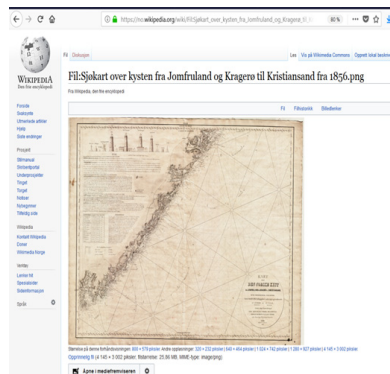
Future Plans

to digitize all the 18.000 documents (old charts, survey sheets and survey reports) to store them in a **dedicated** and **shared** Web-Database.



Historical Nautical Charts Norway

- The Norwegian Mapping Authority has released its central national datasets as open data: <https://www.kartverket.no/en/data/Open-and-Free-geospatial-data-from-Norway/>
- 80% of the historically valuable nautical charts (265 charts) archived by Norwegian Hydrographic Service have been made available through Wikipedia by Norwegian Hydrographic Service: https://no.wikipedia.org/wiki/Liste_over_historiske_dokumenter_hos_Statens_kartverks_sj%C3%B8divisjon
- Time series of tidal measurements of 23 places along the Norwegian coast, dating back to early 20th century



Tide calculating machine in use from 1947 to 1977, donated to and still operational at Stavanger Maritime Museum



HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



Historical Charts in Denmark

Historiske kort på nettet
Geodatastyrelsen
Styrelsen for Dataforsyning og Effektivisering

Matrikelkort Sogne- og herredskort Økonomiske kort Topografiske kort - landsdækkende Topografiske kort - regionale / andre **Søkort** Protokoller

Søg via
Ejerlav >
Kort / stednavn >

Resultat af søgning
Ingen søgning er udført



Navigational charts for Danish Waters

Historiske kort på nettet
Geodatastyrelsen
Styrelsen for Dataforsyning og Effektivisering

Matrikelkort Sogne- og herredskort Økonomiske kort Topografiske kort - landsdækkende Topografiske kort - regionale / andre **Søkort** Protokoller

Søg via
Ejerlav >
Kort / stednavn >

Resultat af søgning
Søgesultat for kims søkort wa Service_01 SimpleSøkort4DFomRegion Antal 48336 søkort (ca. 1750-1900) | søgesultat: 21

48336 søkort (ca. 1750-1900) (21)

Vid	Navn	Ophav	Ar	Målestik	Bemærkninger
Vid	Danmark og Ostereen	Jens Sørensen	1718		
Vid	Danmark og Ostereen	Jens Sørensen			
Vid	Danmark	Jens Sørensen			
Vid	De danske øer	Jens Sørensen	1715		
Vid	Sjælland	Jens Sørensen			
Vid	Fyn	Jens Sørensen			
Vid	Kattegat, Store Bælt, Øresund, Østereen	Jens Sørensen			
Vid	Kattegat, Sundet og Bælterne samt Østereen	Lorentz Linde	1740		
Vid	Sundet og Bælterne	N.H. Stibolt	1745		
Vid	Baltiske	L.H. Fischer	1787		
Vid	Smålandsøhavet, Østereen	L.H. Fischer	1787		
Vid	Kattegat og Østereen vestlige del	Christian Carl Lous	1773		
Vid	Kattegat og Østereen vestlige del	Christian Carl Lous	1773		
Vid	Øresund og Bælterne	Christian Carl Lous	1777		
Vid	Øresund og Bælterne		1807		
Vid	Øresund og Bælterne		1808		

Navigational charts for Waters outside Denmark

Historiske kort på nettet
Geodatastyrelsen
Styrelsen for Dataforsyning og Effektivisering

Matrikelkort Sogne- og herredskort Økonomiske kort Topografiske kort - landsdækkende Topografiske kort - regionale / andre **Søkort** Protokoller

Søg via
Ejerlav >
Kort / stednavn >

Resultat af søgning
Søgesultat for kims søkort wa Service_01 SimpleSøkort4DFomRegion Antal 48336 søkort (ca. 1750-1900) | søgesultat: 72

48336 søkort (ca. 1750-1900) (72)

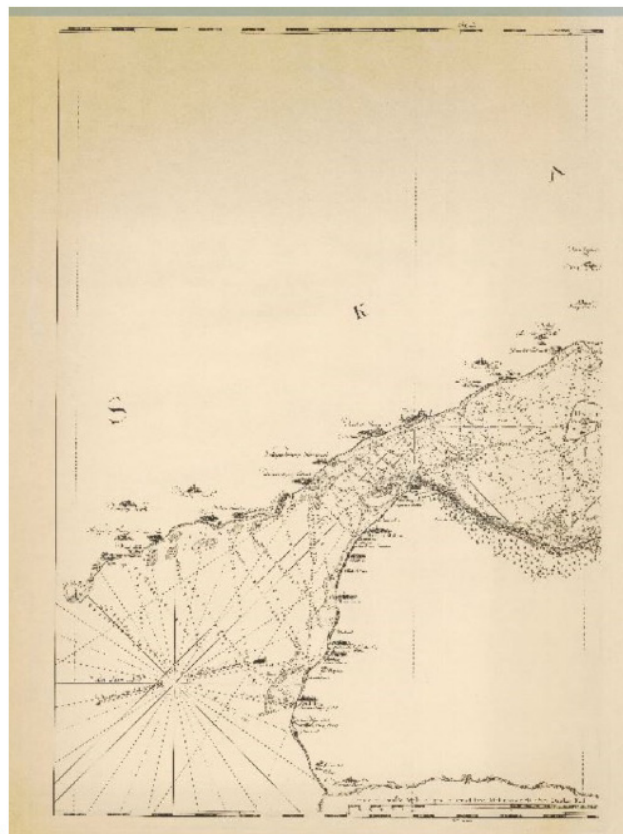
Vid	Navn	Ophav	Ar	Målestik	Bemærkninger
Vid	Grønland	A. Busenius	1733		
Vid	Grønland (O), T, N	P. Egede	1773		
Vid	Grønlands vestkyst	O. Clavsen	1784		
Vid	Grønlands vestkyst	O. Clavsen	1784		
Vid	Grønlands vestkyst	O. Clavsen	1784		
Vid	Disko	Freykes			
Vid	Disko Bugt	P. Egede	1738		
Vid	Godhavn				
Vid	Kolonien Nepequin	I.B. Duelle			Landskninger
Vid	Kolonien Nepequin	I.B. Duelle			Landskninger
Vid	Kolonien Nepequin				
Vid	Kolonien Bads River	A. Garner	1731		

HISTORICAL DATA-DATA RESCUE

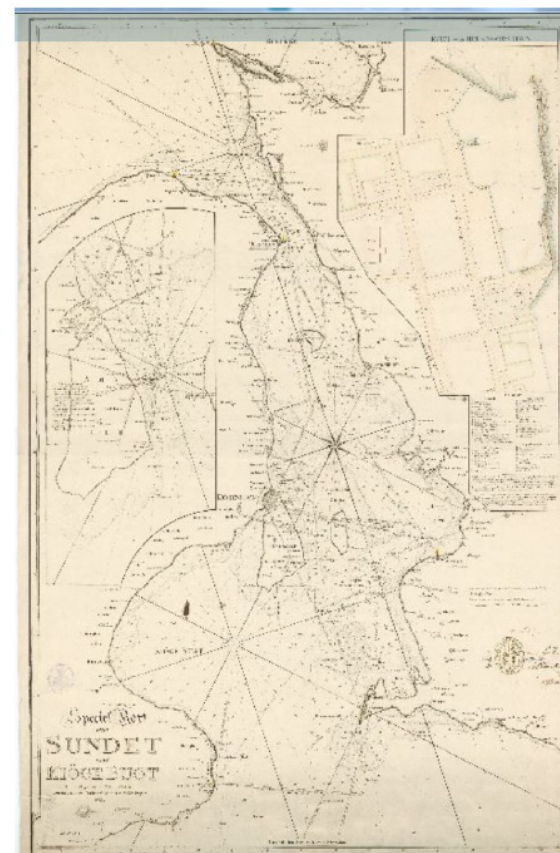
OUR MEMORY FOR THE FUTURE GENERATIONS



Fra Kronborg (Sound) til Stevns
1775



Fra Kronborg (Sound) til Stevns
1832

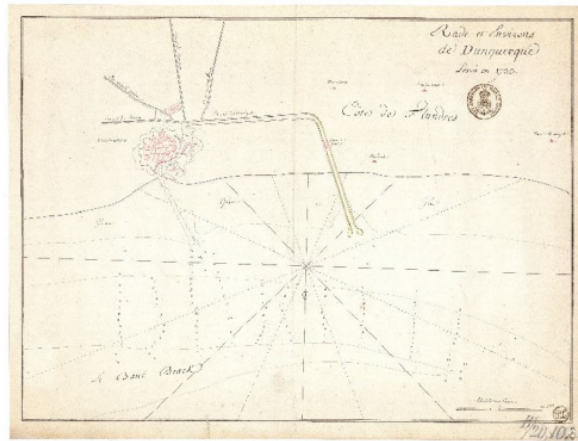


HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



Dunquerque 1690



Morlaix C.C.Cornic 1794

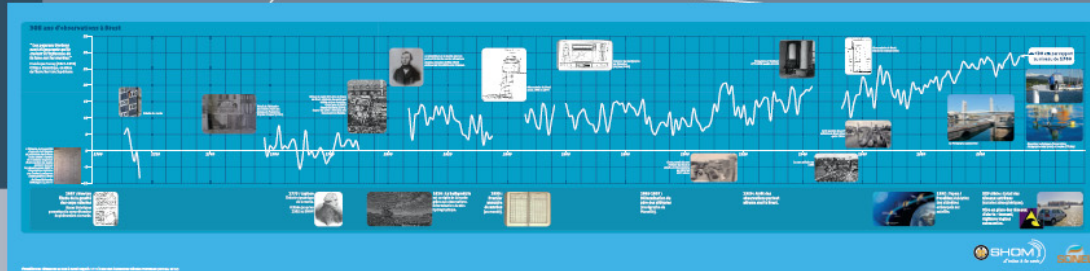


Cherbourg 1784



HISTORICAL DATA-DATA RESCUE

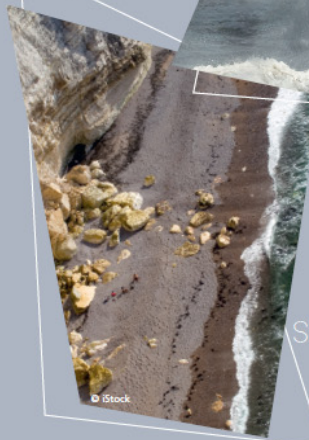
OUR MEMORY FOR THE FUTURE GENERATIONS



Mean sea level at Brest since three centuries

Climate change

Marine submersion



Sea level change

Shore line management

www.shom.fr

To contact us, please call
+ 33 (0) 2 56 312 312

For collecting information relative to your marine, coastal activities, please visit diffusion.shom.fr

For free access to physical marine environment data please visit data.shom.fr



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ARCHIPEL PROJECT

A digital gate into the SHOM cartographic heritage



HISTORICAL DATA-DATA RESCUE

OUR MEMORY FOR THE FUTURE GENERATIONS



SHOM archives, an impressive cartographic heritage

The SHOM archives departments contain more than 200 000 paper documents, some of the oldest ones dating from the early 1800s.

Due to their high technical standards these documents are crucial for a better understanding of the coastal changes over the past two centuries concerning: coast line, sea beds, mean sea level, tide gauge observations, marine submersion (observation of storm surges)...

About 200 000 paper documents including:

- 75 000 manuscript maps (bathymetry and coastal topography);
- 10 000 old nautical charts;
- 45 000 tide gauge charts / marigrams;
- 10 000 aerial photographs;
- 10 000 books;
- 50 000 pages of tidal observation registers.

Expected project benefits:

- Cataloguing older data that are essential to get a better understanding of climate change and coastline evolution;
- Giving open access to, and use of, such data for reproduction, exploitation purposes (open-data license);
- Sharing and disseminating achieved results;
- Preserving high historical value documents.

SHOM commits to reviewing and describing the physical marine environment and to predicting its evolutionary trends. It is in charge of establishing the Reference Databases describing the seabeds depth, the sea level, the marine currents, the nature of the sea floors, the position of the marine wrecks...

Such SHOM collected data and expertise are currently used to realize the marine maps and nautical charts that are required for safety of navigation purpose as well as for numerous, other purposes: prevention of coastline submersion, management of human sea uses, marine environment protection, or maritime spatial planning...

