

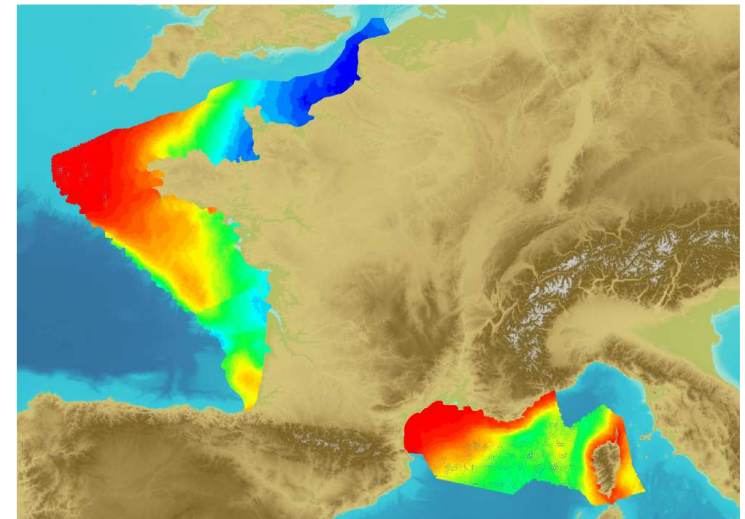
24TH MEETING NSHC TWG

SHOM - FRANCE

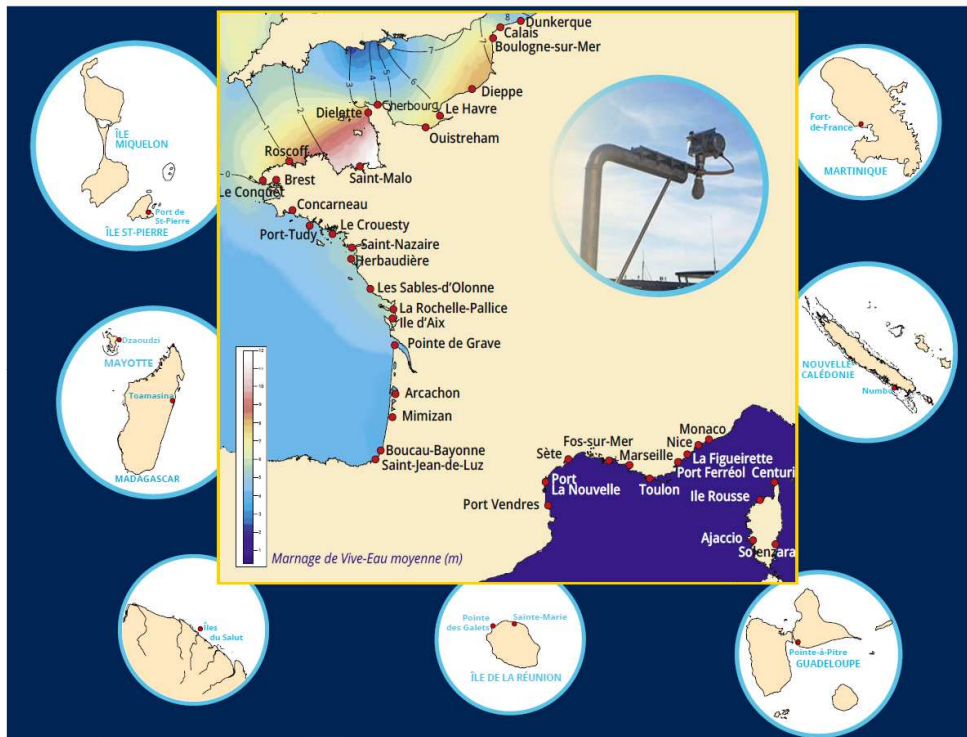
Vertical reference surfaces (BathyElli)

BATHYmetry relative to the ELLipsoid

- Version 2.0 of BATHYELLI Product
- Surfaces available for download on the site data.shom.fr
- Vertical datums referenced to ellipsoid (GRS80):
 - Mean sea level (MSL)
 - Lowest astronomical tide (LAT)
 - Highest Astronomical Tide (HAT)
 - Chart datum (used for nautical charts and sounding reductions)
 - France's land datum (IGN69)
- Vertical Reference Change Service (CRV)
 - Available on the site data.shom.fr



The Sea Level Observation Network RONIM



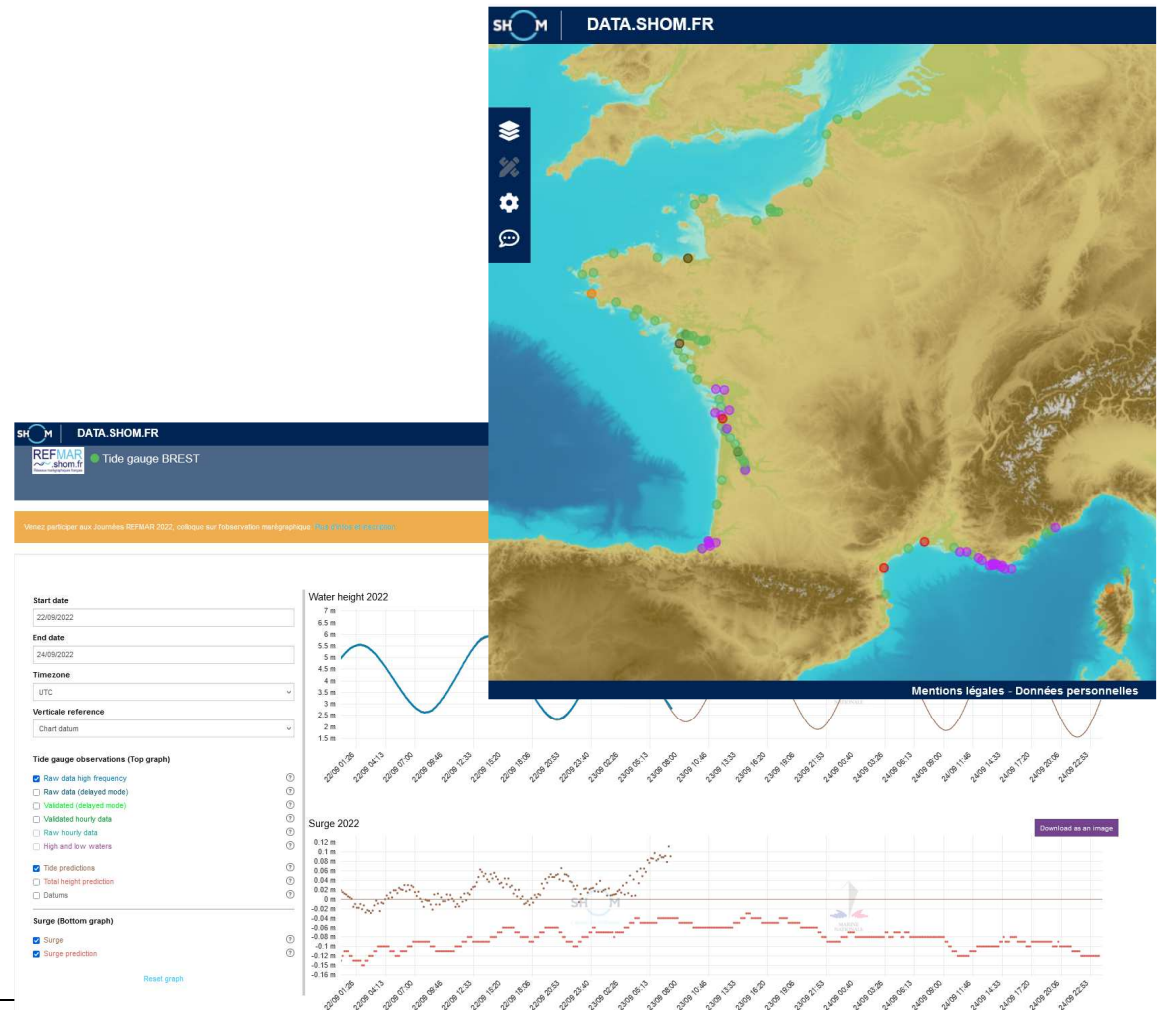
50 stations : continental Fr. + Overseas territories

- Hydrography
- Tide Prediction
- Extreme Events assessment
- Tsunami Warning
- Risk management
- Long-term sea-level monitoring

Data distribution

data.shom.fr

- 125 tide gauges
- Open data (Inspire)
- Automatic download
- Maritime/land vertical reference
- Real-time visualization of sea-level observations, tide predictions and surges
- txt, xml, json formats



GJD1

Open issue : Data rescue

Shom task : 10^3 documents digitized with the help of governmental funds allocated in the category of "Investments for future".

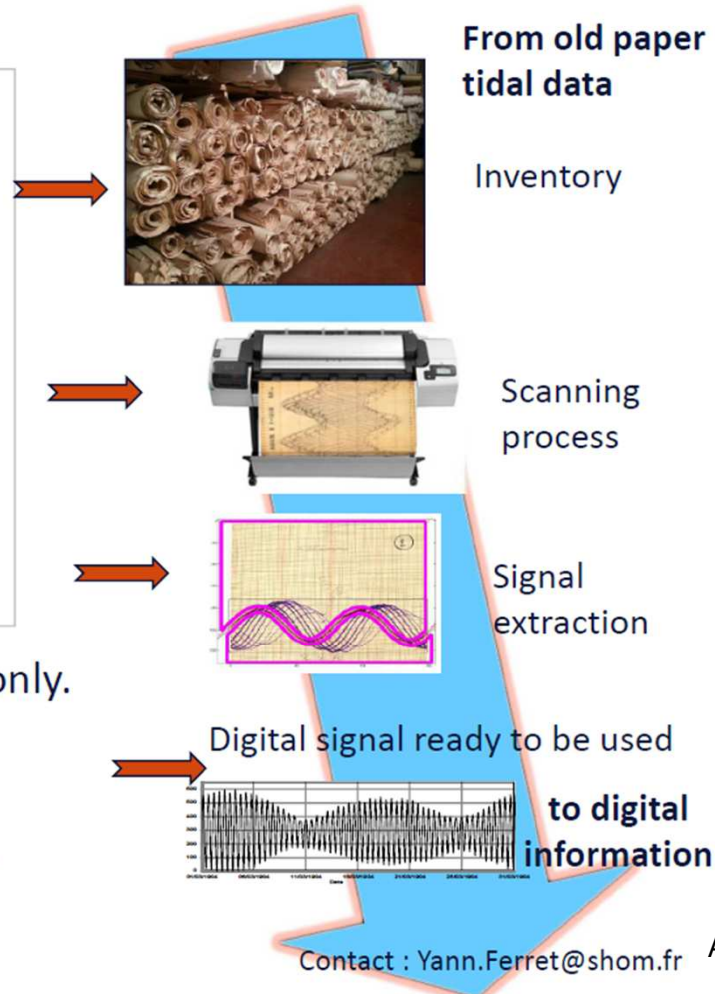
$\sim 2 \cdot 10^5$ documents gathered over the last 300 years.

8% digitized so far.

Rescue, share and design a specific internationally dedicated program to increase digitization.

Action can be done for one step only.

Could question the WGs task : Long term datasets study and provide info, same time.
Potential for cooperation NSHC TWG and TWCWG common actions.



IHO, Unesco action
(Update presentation,
after NSHC- Oostende
NSHC 2017)

Contact : Yann.Ferret@shom.fr Alexa.Latapy@shom.fr

Diapositive 5

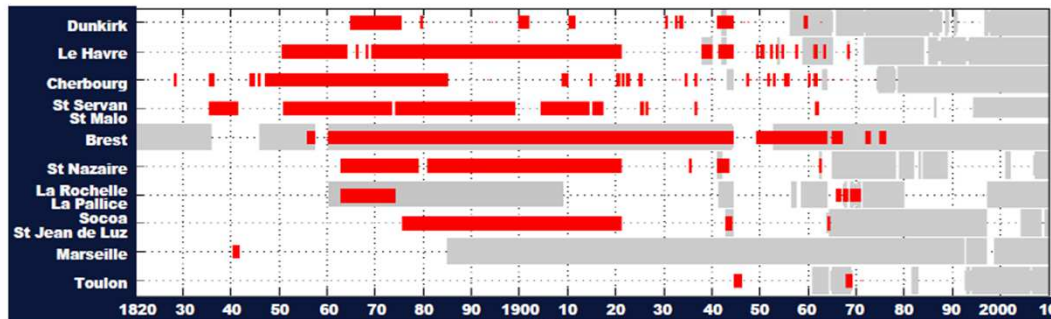
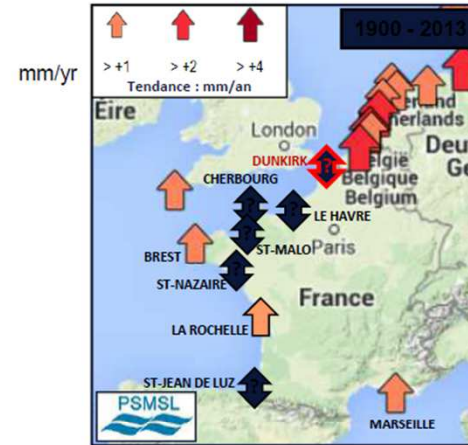
GJD1

Gwenaele Jan, DOPS/STM/REC; 26/09/2022

Open issue : Data rescue

Data rescue aims to :

- Preserve the historical scientific heritage.
- Improve the knowledge on trends in sea level components and on the coast vulnerability
- Identify and study the extreme sea level surges



Digital data
 (avail. Online)
 +
 Old paper data
 (Maregrams, tidal
 charts, ...)
 Shom: Ongoing
 inventory

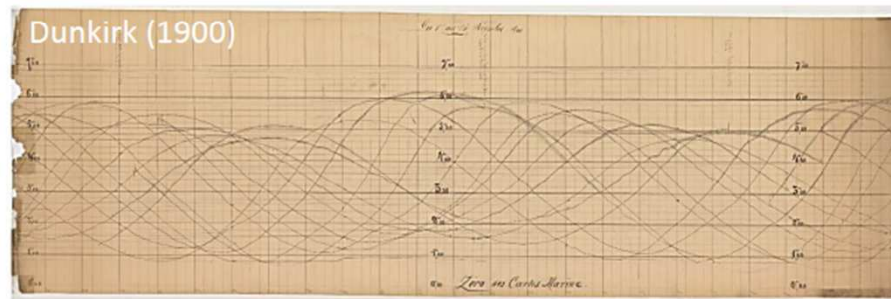
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 NSHC 2017)

Data rescue

- Ongoing PhD thesis ULCO/Shom (2017-2020) about Northern France coastal evolution
- In Dunkirk, Boulogne-sur-mer and Calais : 780 old paper data (tidal charts and handwritten ledger)
- Data available since 1700 for Dunkirk ; 1835 for Boulogne-sur-mer and Calais



Reconstruction of sea level changes in Northern France for the past 300 years



Evolution of the coastal zone



Alexa.Latapy@shom.fr

Open issue : Data rescue

If you are interested in participating in such a project, please inform us if you have old documents like maregrams, gauge charts, old coast maps, manuscript maps.

If so, have you evaluated (please give a detailed description)

- The number,

- The type, (map, maregrams..)

- The age

- The possibility to use the data in comparison with the actual ones (ex maregrams, coastline)

Have you started the digitization process..?

Do you have documents from other countries ?

-Number, -Type, (map, maregrams..), -Age, -Possibility to use the data in comparison with the actual ones (ex: maregrams, coastline)

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Thank you for your attention

