



EMODnet



European Marine
Observation and
Data Network

Your gateway to marine data in Europe

EMODnet High Resolution Seabed Mapping

7th EMODnet TWG Agenda Item 6

Updates, features and perspectives from EMODnet thematic projects

Perspectives from Lot 0 HRSM

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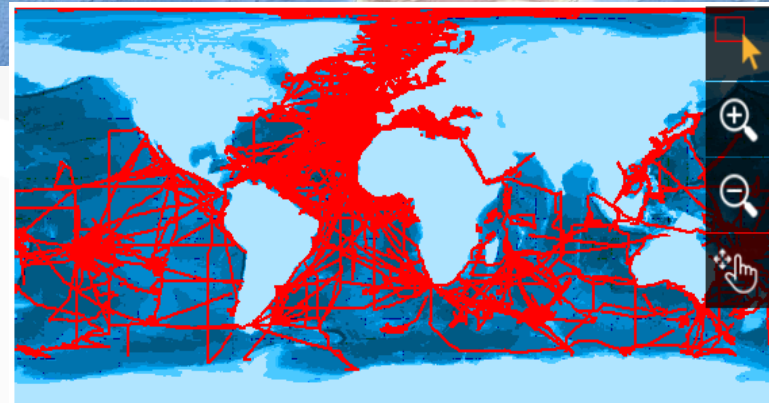
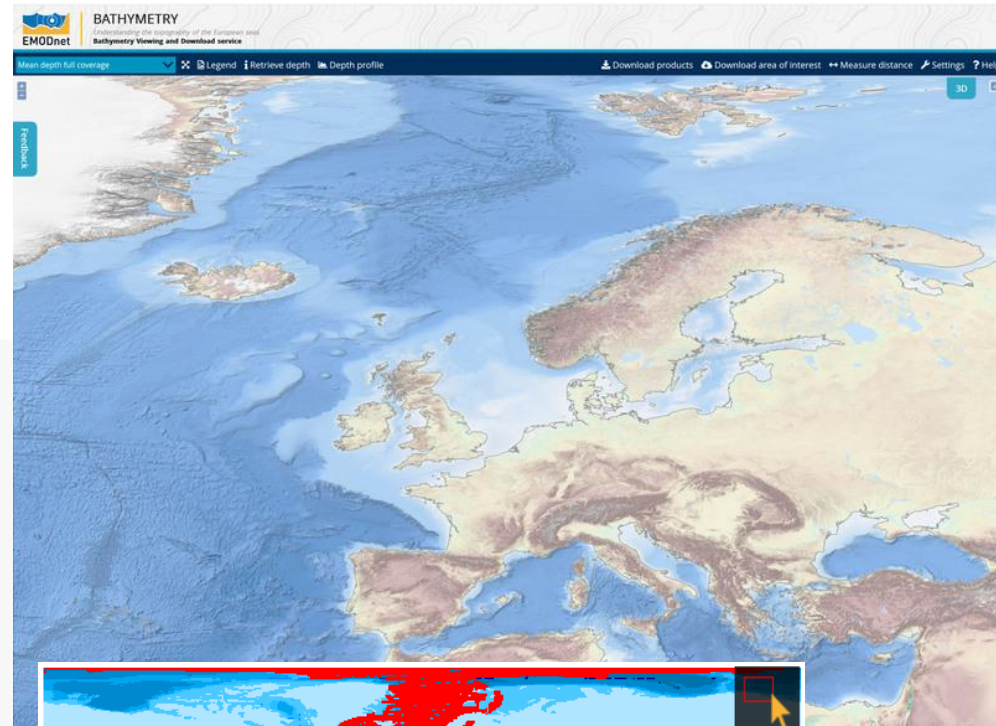
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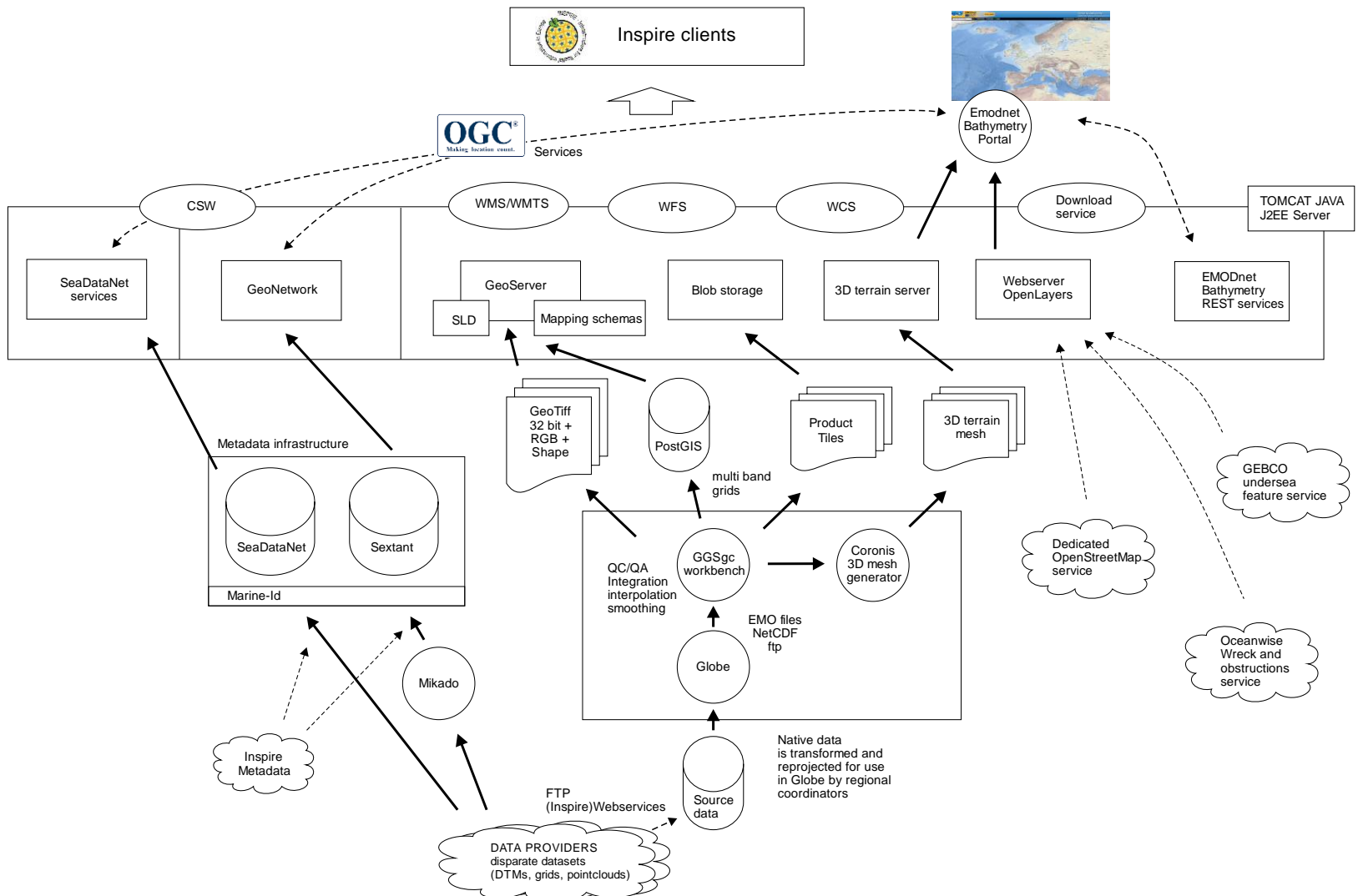


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HRSM EU bathy dataset inventory and DTM release (planned/released)

- The EMODnet DTM now contains $113892 \times 108132 =$ circa 12.3 billion data points;
- Coverage including all European seas as well as the European part of the Arctic Ocean and Barents Sea;
- <http://doi.org/10.12770/18ff0d48-b203-4a65-94a9-5fd8b0ec35f6>
- Inventory of sources of bathymetric datasets originating from European organisations (metadata)
-> SDN / RSM : requesting data access at the data provider level.



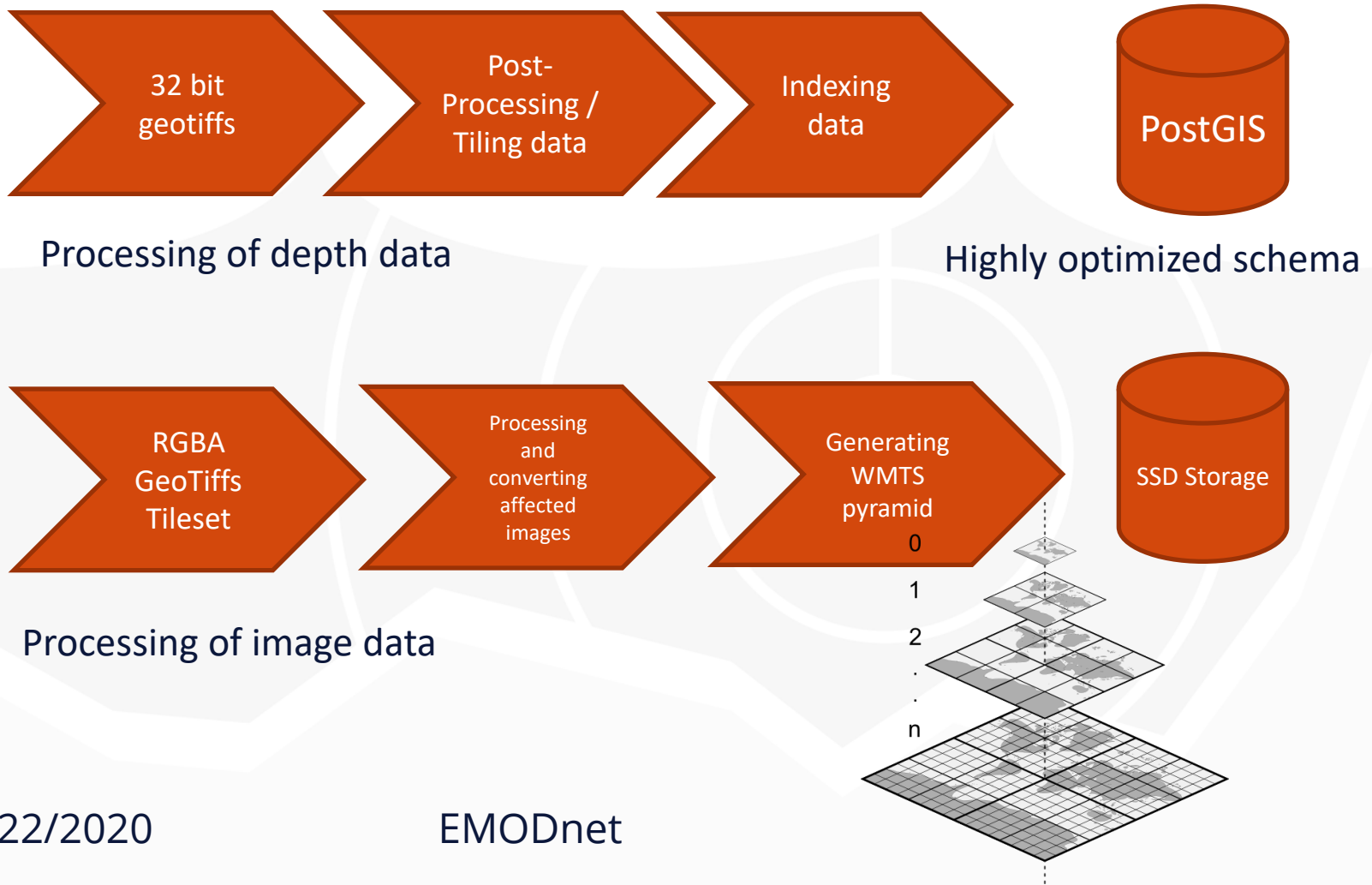




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Preparation for visualization





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Services and API

<https://portal.emodnet-bathymetry.eu/services/services.html>

REST –
depth info

rest.emodnet-bathymetry.eu



Raster data

WMS - WFS
WCS

ows.emodnet-bathymetry.eu



Vector data



Raster data

WMTS

tiles.emodnet-bathymetry.eu



Pre rendered
raster
imagerydata

4/22/2020

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In numbers:

GEBCO 2019 global grid

15 arc second resolution

2.7 Billion grid cells

EMODnet 2018 release
(Europe DTM)

3.75 arc seconds (1/16 arc
minute)

5.4 Billion grid cells with
10 data bands each

Circa 52.000 direct portal visitors and 44.000
web portal visitors.

38.000 DTM tiles (3.5 TerraByte) downloaded
by 4.000 unique users, 2100 unique
organisations, 115 countries, 11.000
transactions: 20% industry, 20% research, and
40% universities

OGC web services (machine-to-machine) more
than 20 million WMS views in the reporting
period by circa 170.000 visitors.

150 references to EMODnet Bathymetry in
accepted papers and edited books

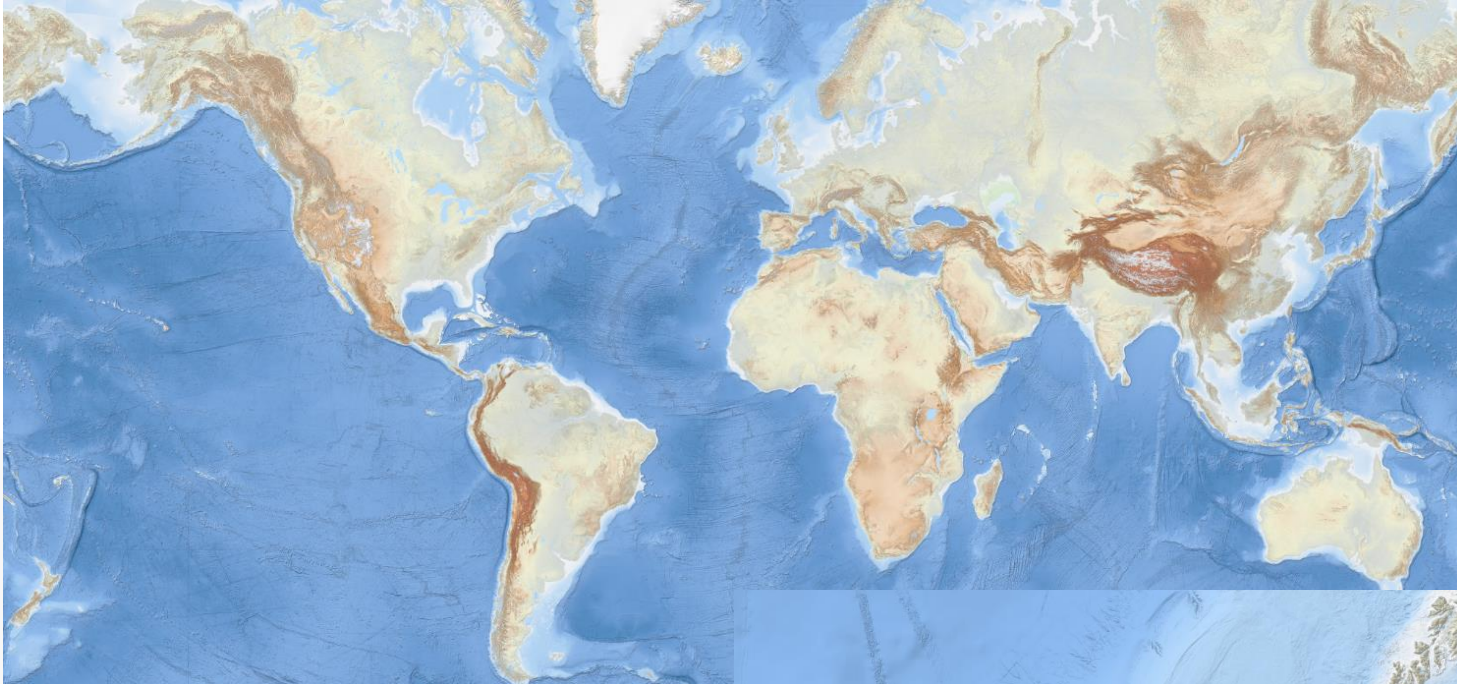
60 feedback forms received and answered, all
positive

Since 2008, more than 200.000 DTM tiles
downloaded



EMODnet World Base Layer

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3 arc seconds (with
upsampled EMODnet Europe
DTM)
90 Billion grid cells

