



EMODnet



European Marine
Observation and
Data Network

EMODnet Geology - updates 9.9.2021 – 27.4.2022 - Centralization phase

16th EMODnet Steering Committee
27-28 April 2022

Henry Vallius and
Bjarni Pjetursson on behalf
of EMODnet partners

EMODnet Geology

<https://www.emodnet-geology.eu/>

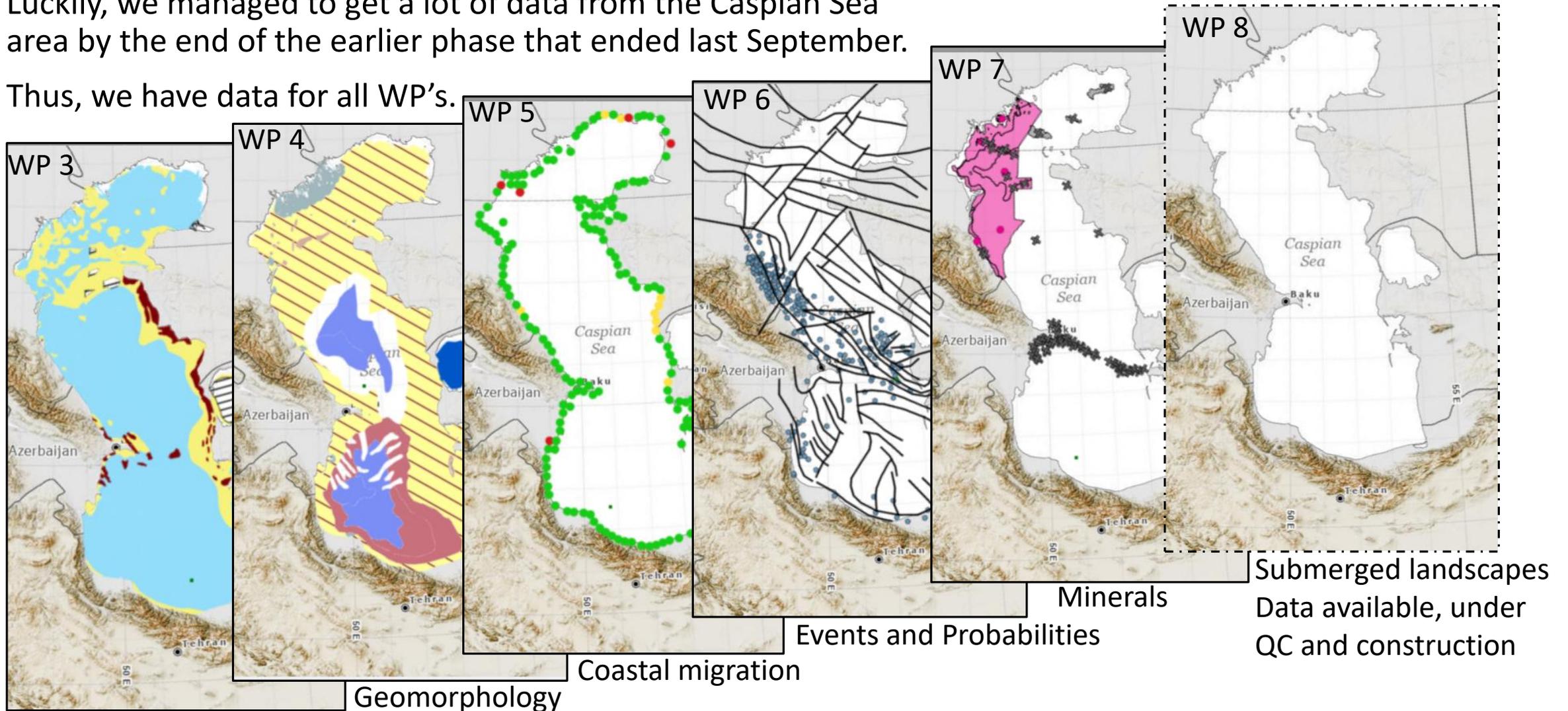
<https://emodnet.ec.europa.eu/en/geology>

Status update (EMODnet Geology) Including main achievements & challenges

- Covid-19 has slightly affected the work, but for the moment RUS aggressions in UKR are of main concern (details on later slide).
- All our data products were updated by 24th September, at the end of our previous phase, except for the Caspian Sea part of the Submerged landscapes map which is in for final check for the moment and will be updated in early summer.
- This phase started with a remote kick-off meeting on 11-12. September 2021. Partners were requested to collect available new geological data, especially regarding our new geographical area: the Caribbean Sea. WP leads have updated and provided guidelines to collect and harmonize the data.
- To guide the work on Seabed erosion rate, a query on such data was sent out to project partners. The task is slightly challenging, since it's in general difficult to estimate. It's rather a prediction of future change, not too often a steady state change which could be measured. More difficult to measure than of sedimentation rate.
- EMODnet Geology WP's have collaborated to ensure and advance the harmonization of terms between the WP's and with INSPIRE.
- Centralisation of the portal, ongoing. Bjarni...

Status update: Challenge: Russian aggressions in Ukraine

- Russian aggressions in Ukraine are of main concern since EMODnet Geology subcontractor VSEGEI has been our Caspian Sea subtask leader. VSEGEI activities are all on ice for the moment due to the war.
- Luckily, we managed to get a lot of data from the Caspian Sea area by the end of the earlier phase that ended last September.
- Thus, we have data for all WP's.



Seabed substrates

Geomorphology

Coastal migration

Events and Probabilities

Minerals

Submerged landscapes

Data available, under

QC and construction

Cross-Thematic Interactions

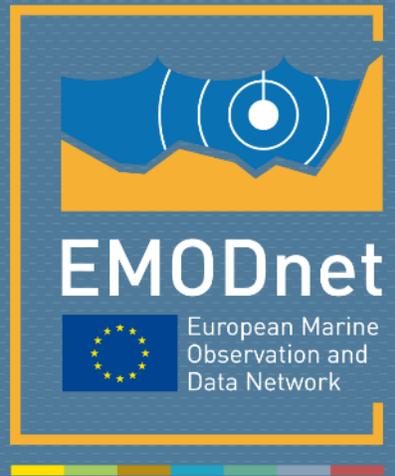
- 09.11.2021. Meeting between Royal Netherlands Navy (EMODnet Bathymetry) and TNO (EMODnet Geology). An agreement on online accessibility of Dutch sidescan-sonar archive was updated. And a first national (Dutch) interdisciplinary meeting on EMODnet was also discussed.
- 21.02.2022. Dissemination of “EMODnet Geology and Bathymetry” at INFOMAR seminar 2022 in Dublin presenting EMODnet achievements and future portal centralisation.
- EMODnet Geology (WP3) distributed Caspian Sea coastline created in EMODnet Geology to EMODnet Habitats lot, February 2022.
- Communication between EMODnet Geology (WP3) and EMODnet Habitats lot is active, latest topics have been - the timeline of substrate data collection and - Caspian Sea data (before Ukraine crisis).

External interactions, dissemination

- 13.09.2021 online workshop organized in cooperation with the **Italian Geological Society**. Presentation of a fluid emission database in Italian Seas, including EMODnet Geology data.
- 18.- 22.10.2021 Århus, Denmark. **Baltic Sea Science Congress 2021**. Oral presentation (Kotilainen et al.), poster presentation (Kihlman et al.) Dissemination of EMODnet and EMODnet Geology
- 18.11.2021 **EMSAGG** webinar – with an Overview EMODnet Geology presentation ‘Marine resource mapping in the UK and Europe’.
- 14- 18.12.2021, Florence, Italy. **30th International Cartographic Conference**. Congress on all aspects of mapping and representation. Presentation of EMODnet Geology
- 15.2.2022. Sopot, Poland, **International Ocean Data Conference 2022**, Sopot, Poland. GTK Presentation of EMODnet Geology project
- 23.3.2022. **FINMARI Researcher Day** (remote). Dissemination of EMODnet and EMODNET Geology project
- 31.3.2022. **EuroGeoSurveys, Geological Mapping & Modelling Expert Group** (remote). Dissemination of EMODnet Geology project.

Future Outlook

- Data collected and harmonized by the partners will be delivered to the WP's during 2022 and QC'd by the respective WP's before integration into the different data products. These will be a finally QC'd by partners before data release during 2023.
- Submerged Landscapes WP will include a vast number of new features on the portal, including data from the Caspian Sea which were delivered to them in the very end of previous phase. The soon to go public database comprises more than 40,000 (up from ~16,000) features representing 27 classes of submerged landscape and palaeoenvironmental indicators.
- A new product, a coastal vulnerability map will be delivered during this phase.
- Also new, the Seabed erosion will be released by the end of this phase.
- The coastal ribbon, or White ribbon: EMODnet Geology aims to ensure compatibility with terrestrial efforts at the sea-land interface and aims to collate geological information of the Coastal Ribbon (~10 km landwards) on geology (age, lithology) and geomorphology, work ongoing.
- EMODnet in general and EMODnet Geology will be disseminated at many national and international events, such as the EGU and AGU, with 20.000 and 40.000 participants respectively, both in 2023 when products are ready to be, or already released.
- Caspian Sea data. In case the Ukrainian war continues we are forced to choose a new Caspian Sea task leader. GTK is prepared to take that responsibility, but still looking for options and planning actions.



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