

Key words - Data management, Open Science, FAIR data, quality management system

Scope

The NODC, managed by the OGS, provides an overview of the types of data held and made available through its online data access services. It reports on the most important steps that have paved the way for recognition as a UNESCO-accredited NODC in the 20 years of work.



About marine data

- The NODC standardises, validates and preserves information from the academic, civil and private sectors.
- Data/metadata concern: Biology (Fig.1), Chemistry (Fig. 2), Geology (Fig. 3), Meteorology (Fig. 4) and Physics (Fig. 5).
- The archive comprises over 460 million of measurements, collected from several in-situ monitoring and research systems.

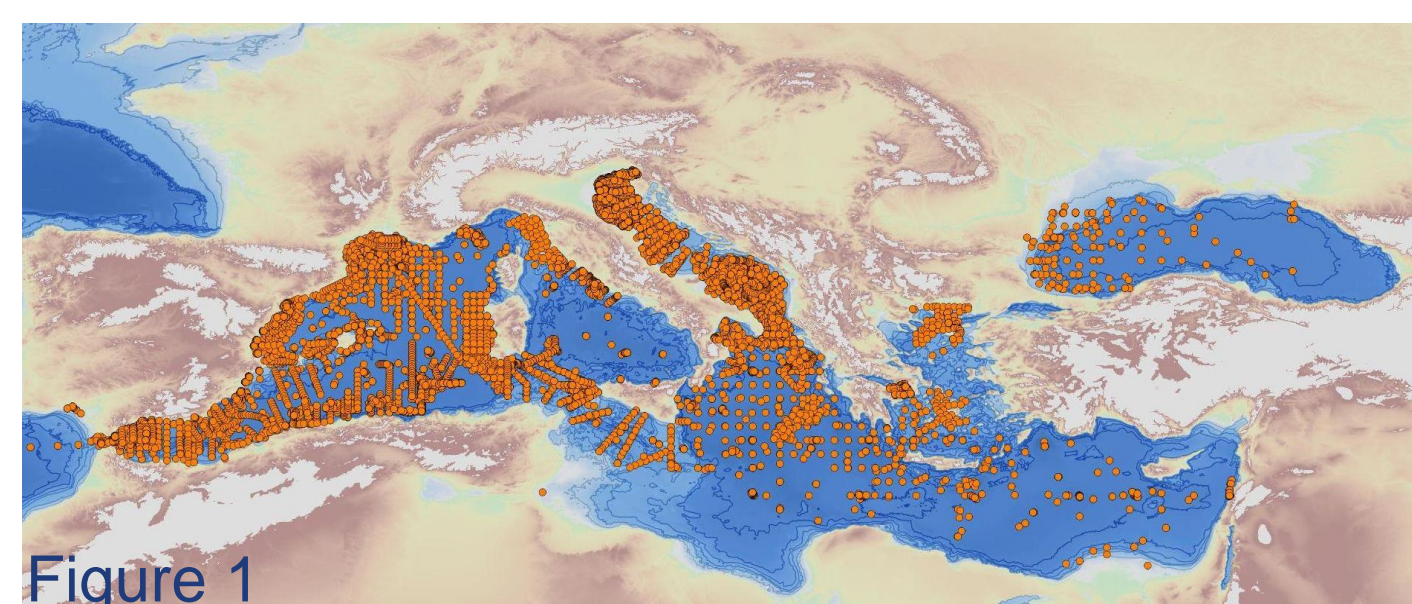


Figure 1

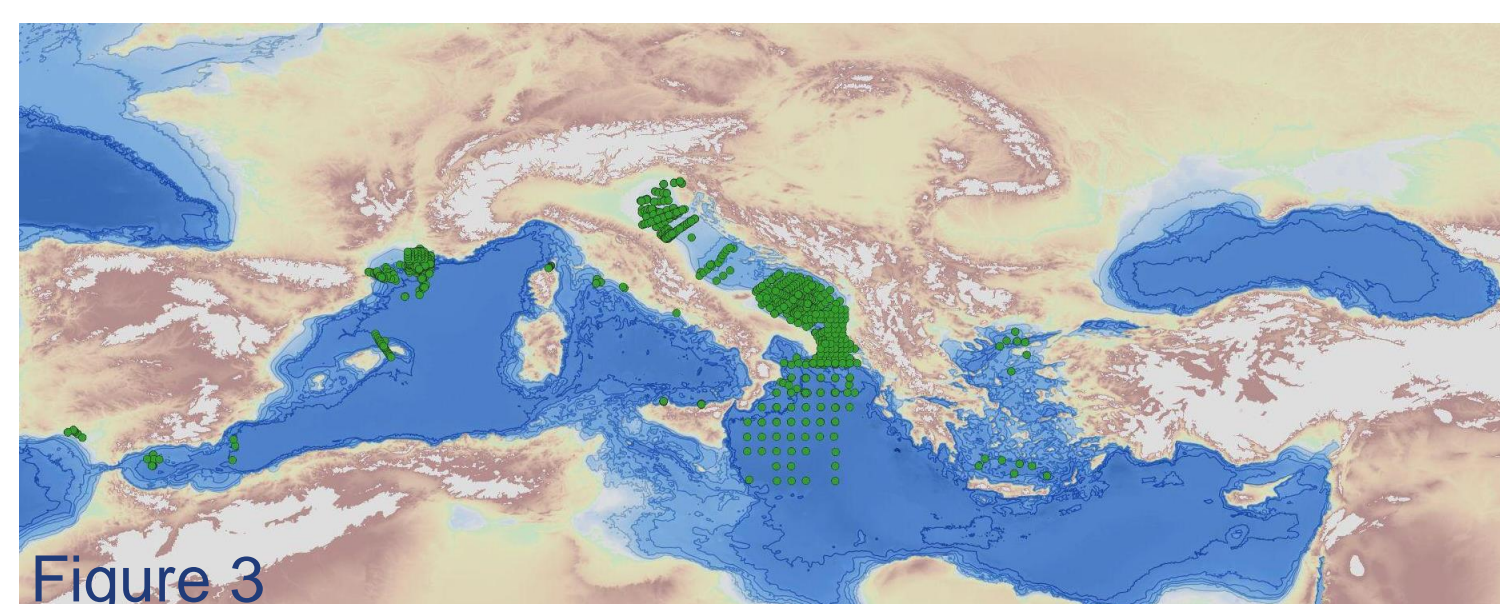


Figure 3

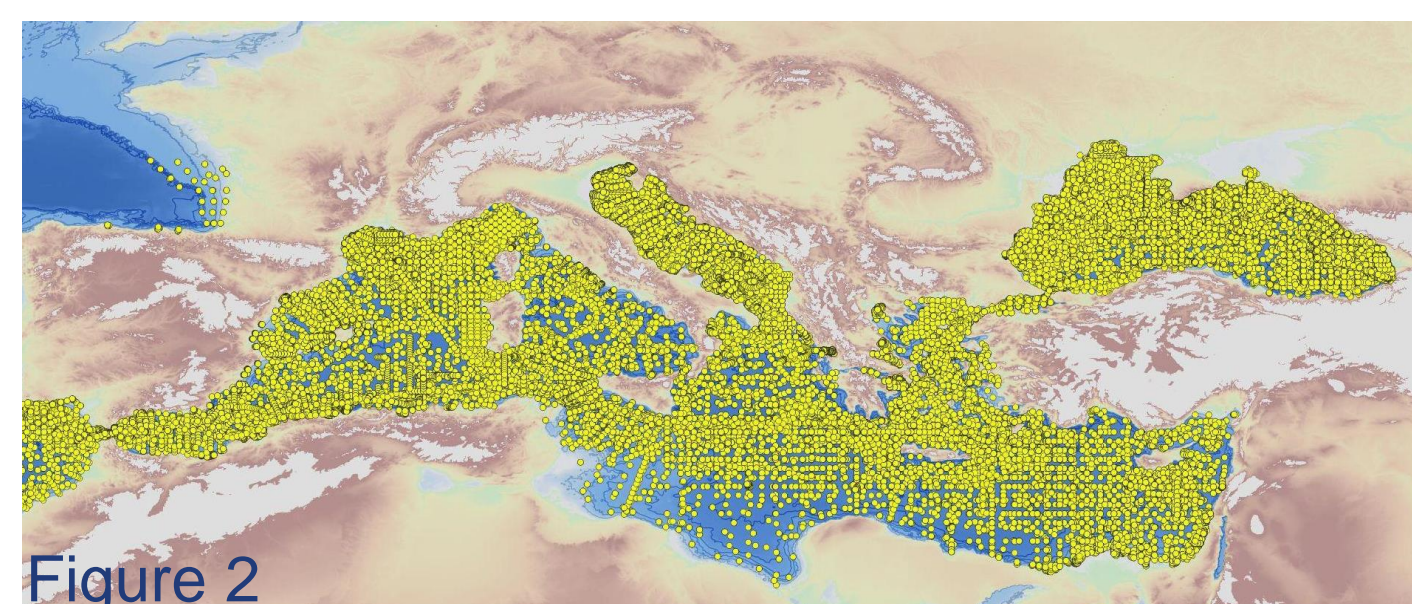


Figure 2

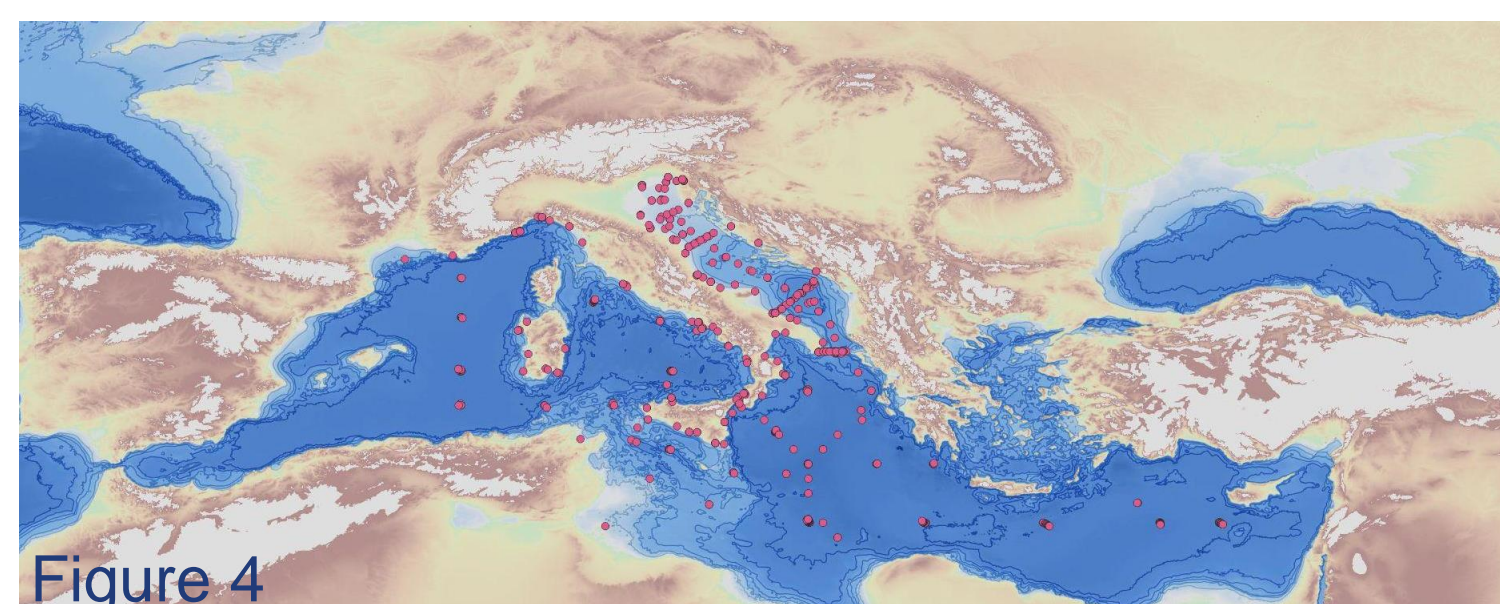


Figure 4

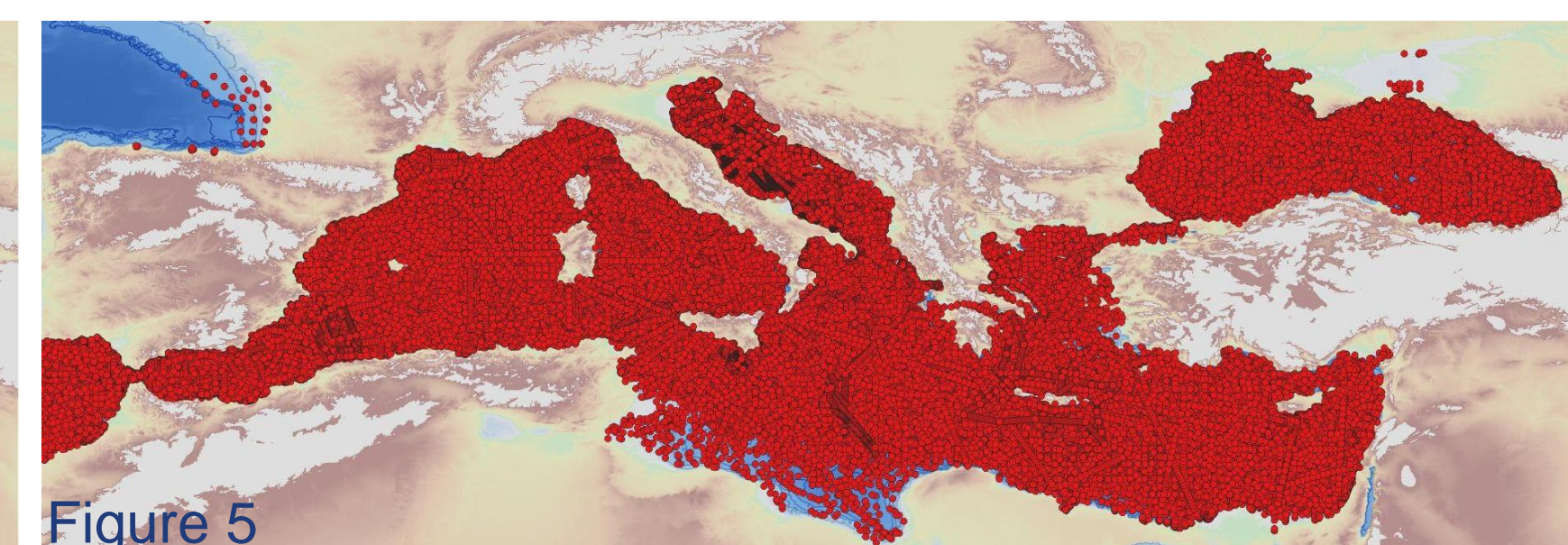


Figure 5

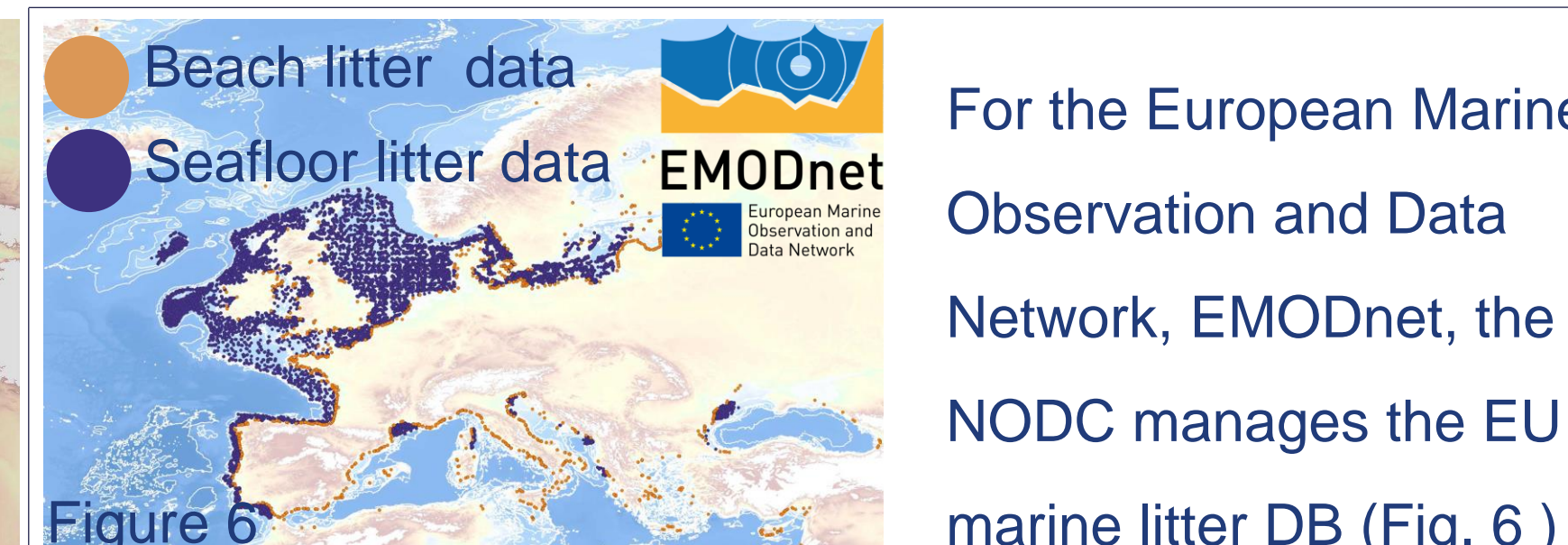
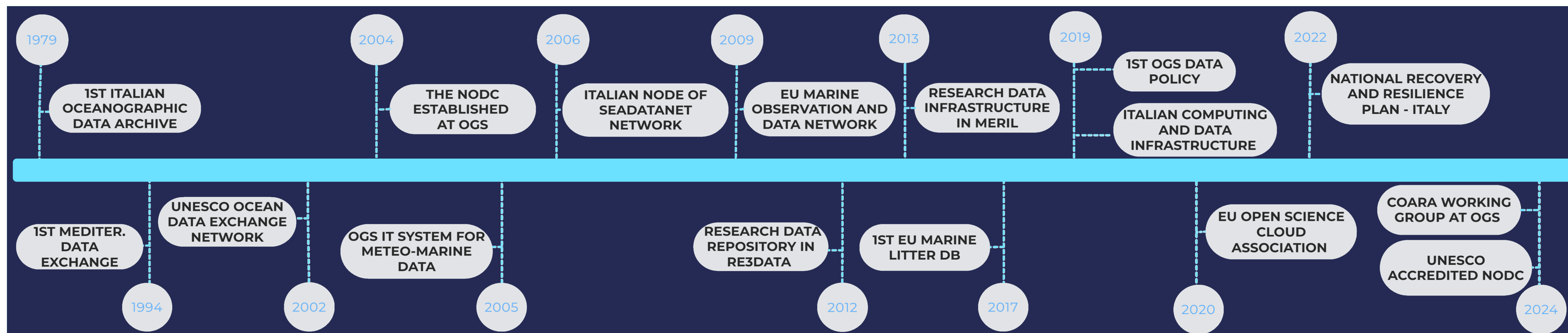


Figure 6

For the European Marine Observation and Data Network, EMODnet, the NODC manages the EU marine litter DB (Fig. 6)

Key steps



Services

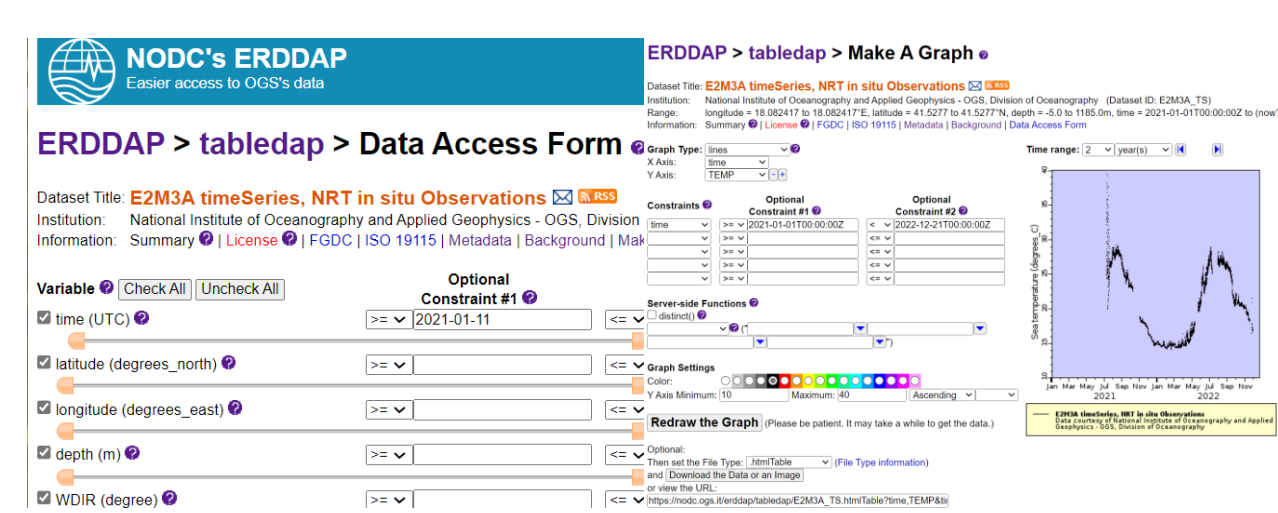


Figure 7 (Top) Figure 8 (Bottom)

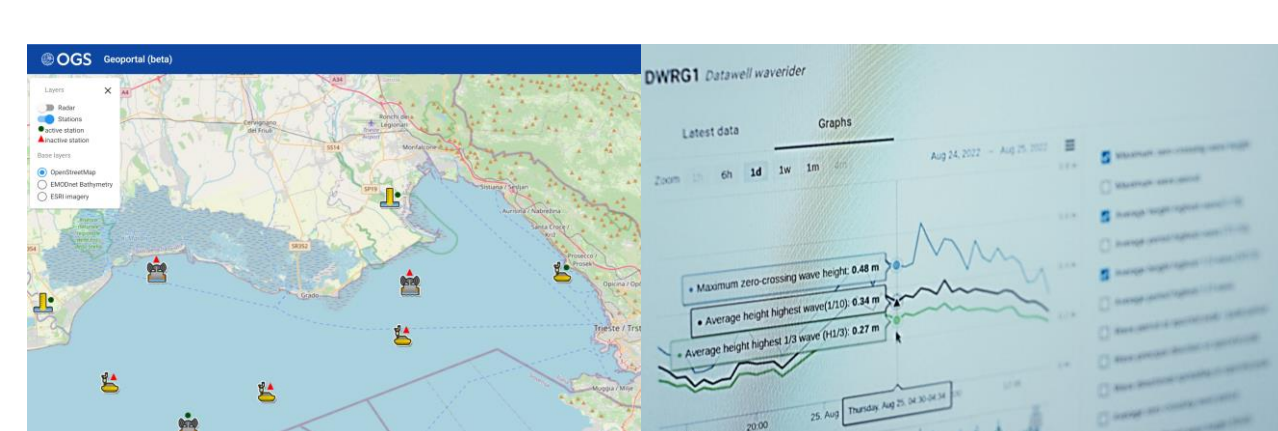


Figure 7 Access service to NRT data

Figure 8 Geoportal for NRT data

Figure 9 Access service to DM oceanographic data

Figure 10 Access service to DM biological data



Figure 9

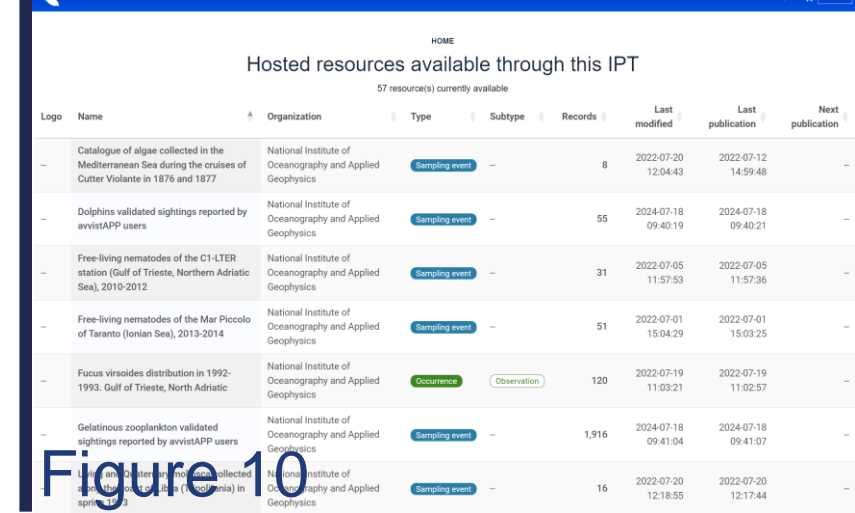


Figure 10



Figure 11 Metadata catalogues: cruises, projects, datasets and DOIs.

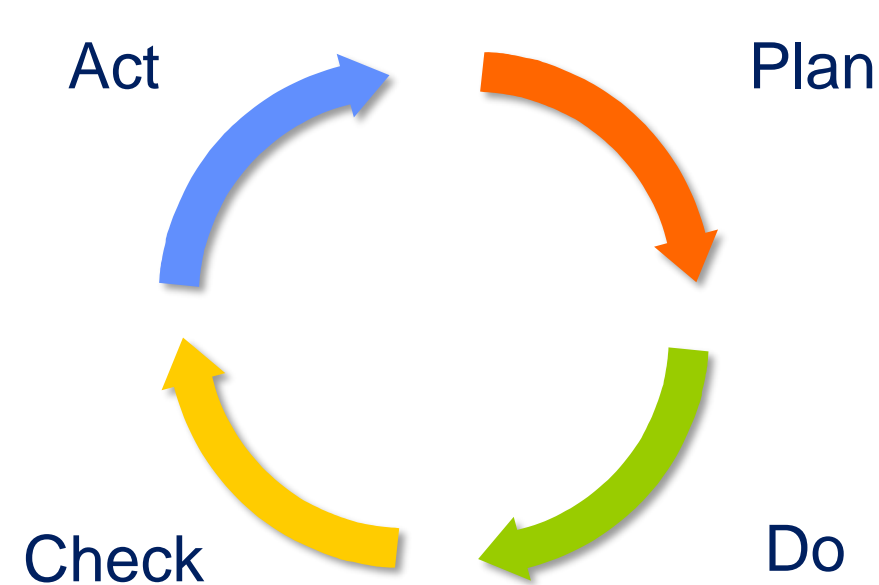
Benefits for scientists

- As data providers
- Acknowledgement
 - Data check
 - Trusted repository
 - Rewarding

- As data users
- Diving into data
 - Standardised data
 - Validated data
 - Rich metadata

Quality management system

Deming cycle - PDCA

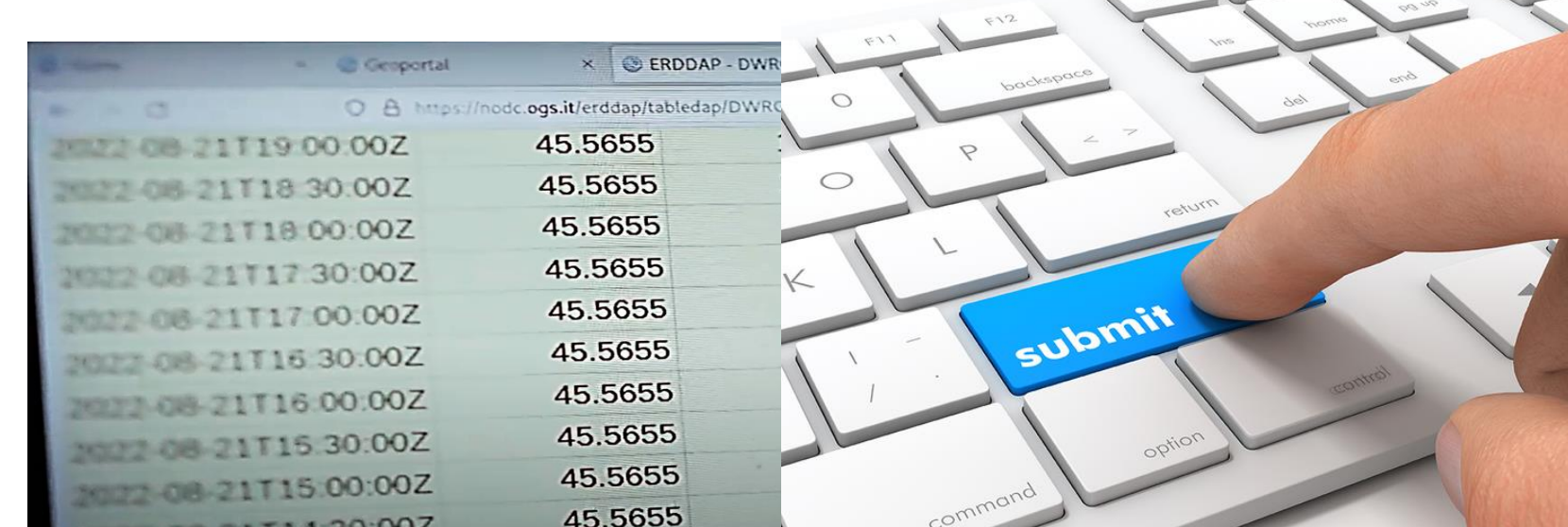


The UNESCO Programme for the International Exchange of Oceanographic Data and Information (IODE) states that the accredited NODC meets the requirements of ISO 9001:2015 as well as the IODE and FAIR data principles.



Take home message

- Share your data!
- Fill in the customer satisfaction survey on our contact page! Your opinion is crucial to improve.



More info and contacts

Help desk: nodc@ogs.it

Website: nodc.ogs.it

YouTube Video



- Plan** - identify issues/opportunities; plan response actions
- Do** - take action to improve
- Check** - monitor results Vs quality objectives
- Act** - standardise and upscale solutions to consolidate results

