



EMODnet Sea-basin Checkpoints: Results and challenges – are marine data fit for use?

Dr Quillon Harpham, Technical Director, HR Wallingford

- We only have an **approximate** overview on a **sea-basin scale** of (data) gaps and duplications and no overall view of priorities for further data collection or assembly;
- Checkpoints evaluated how well the **current monitoring systems** and data collection frameworks provided data to meet the needs of users;
- By testing the data against specific **end-user challenges**;
- Highlighted data **gaps, duplications** and **bottlenecks**.

Source: EMODNet Central Portal; <https://www.emodnet.eu/checkpoints>

Arcadis



Arctic



Atlantic

Ifremer



Baltic



Black Sea

IO-BAS

Klaipėda
University



Med Sea



North Sea

HR Wallingford

INGV

The Challenges



Wind Farm Siting



Marine Protected Areas



Oil Platform Leaks



Climate



Coasts



Fishery Management



Fishery Impacts



Eutrophication



River Inputs



Bathymetry



Alien species

Comprehensive set of reports at:

<https://www.emodnet.eu/checkpoints/reports.>

Synthesis report:

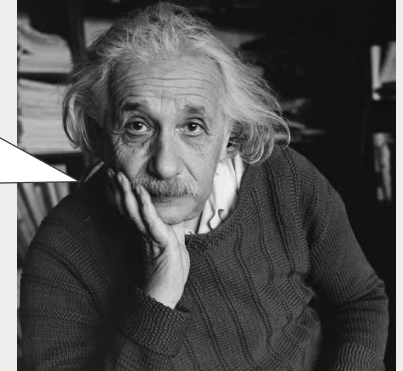
- Sampling gaps could be filled through better partnerships with satellite and modelling communities.
- Suggestion to concentrate on Essential Ocean Variables (EOV) and build longer histories.
- Many biological variables would benefit from more standardisation and a more systematic approach to monitoring.

Synthesis report continued:

- Length of time to employ the dataset (how long it takes to use it) is an important consideration.
- Collaboration with non-EU countries (e.g. Russia, North Africa) (and now the UK) is fundamental.

Next steps: Understand demand

If I had an hour to solve a problem I'd spend 55 minutes thinking about the problem and 5 minutes thinking about solutions. (Einstein?)



- Understand usage and demand; design checkpoint challenges around key points and opportunities.
- Include synergy with satellite EO.
- Create a simple framework for evaluating the value of data.

Next steps: data 'VALUE' indicators

Visibility

How easy was it to find out that the data existed and understand what was on offer? ★ ★

Availability

How easy was it to obtain the data?



Legality

Did you have a licence to use the data and at a reasonable price? ★ ★ ★ ★

Utility

Did the data have sufficient spatio-temporal coverage and resolution; was the data of a sufficient quality to meet your needs? ★ ★ ★

Employability

How easy was it to open and process the data? Did you understand the data? ★ ★ ★



HR Wallingford

Howbery Park, Wallingford, Oxfordshire OX10 8BA, United Kingdom

Tel +44 (0)1491 835381

fax +44 (0)1491 832233

email info@hrwallingford.com