



Pan-European Operational Oceanographic **Real Time Data Exchange**

By

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SEPRISE Demonstration

- To demonstrate the European capacity in operational oceanography
- To demonstrate the ability to collaborate between oceanographers across Europe
- Focus on data exchange

SEPRISE Demonstration

- Keep it as simple as possible
- Start with what we have and gradually fill the gaps
- Use the results from other European operational programs (ESEAS, MedGLOSS etc.)

SEPRISE collects real time data from buoys and fixed stations and forecasts of

- Sea level
- Waves
- Currents
 - SST
 - SSS
 - Wind

that are exchanged hourly from FTPs all over Europe and visualize it on the SEPRISE web site

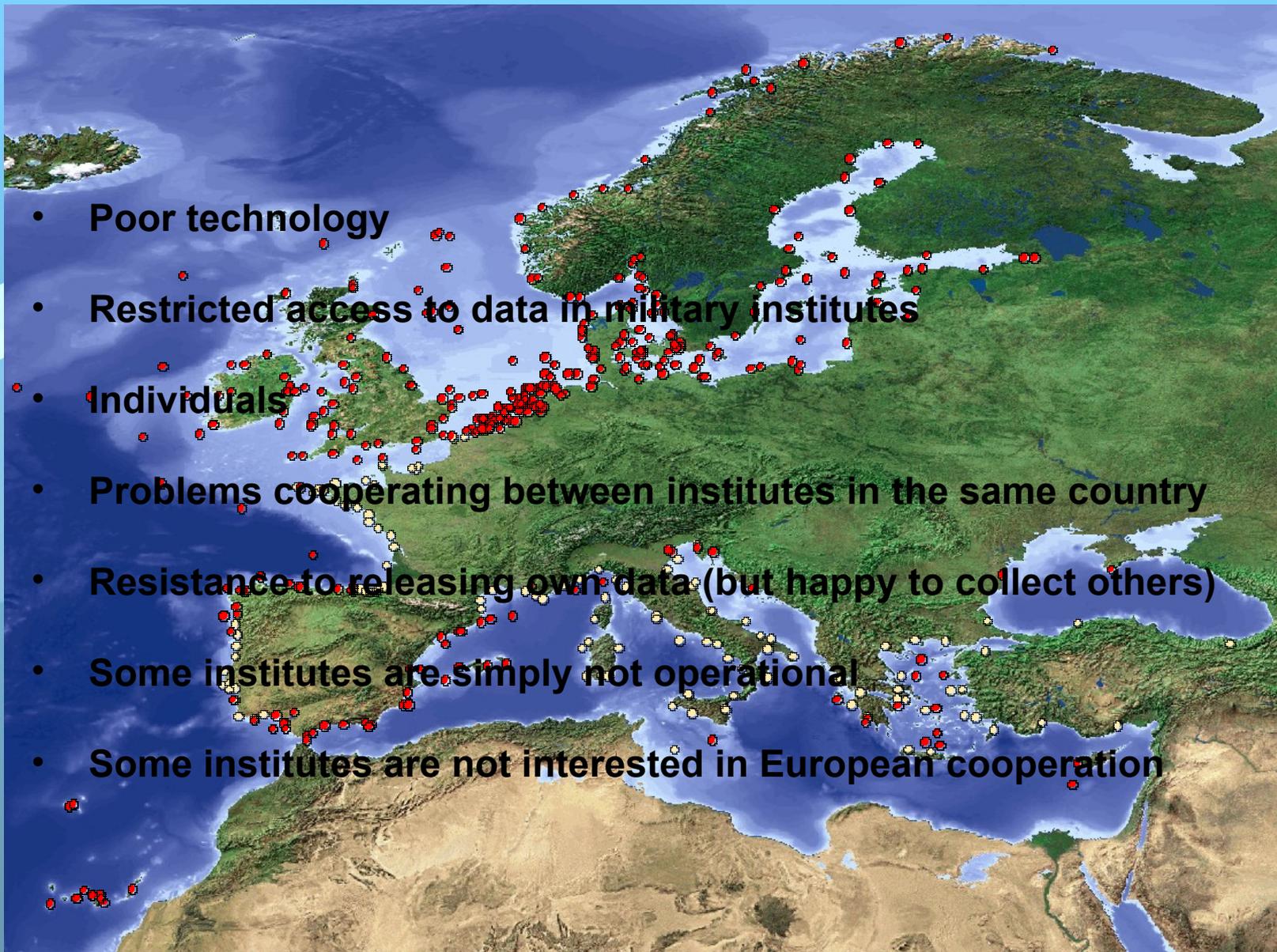
General problems:

- Oceanographers themselves
- Get data on servers (we know that data is there)

If we get this far the problems are small (quality control, format etc)



- Number of institutes providing data: 45
- Number of stations in the SEPRISE system: 385
- Producing 652 time-series every hour
- ~ 80% of these time-series have corresponding model output
- 98% of the data freely available



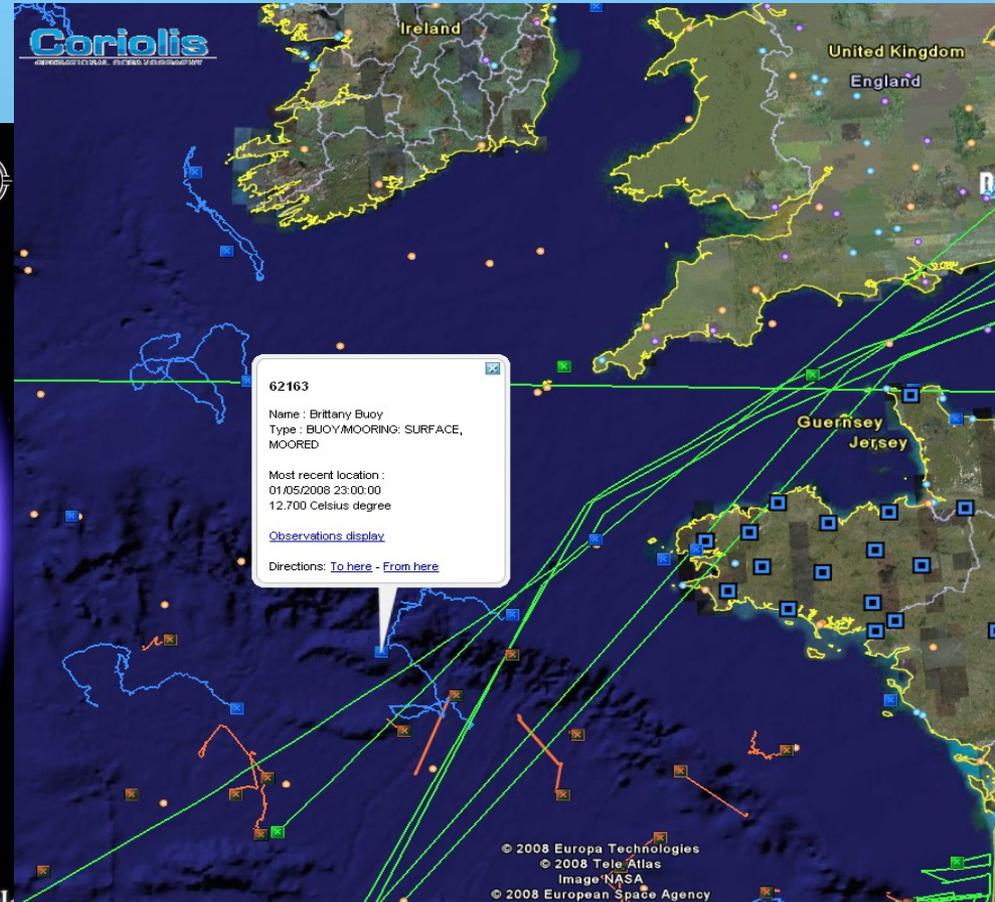
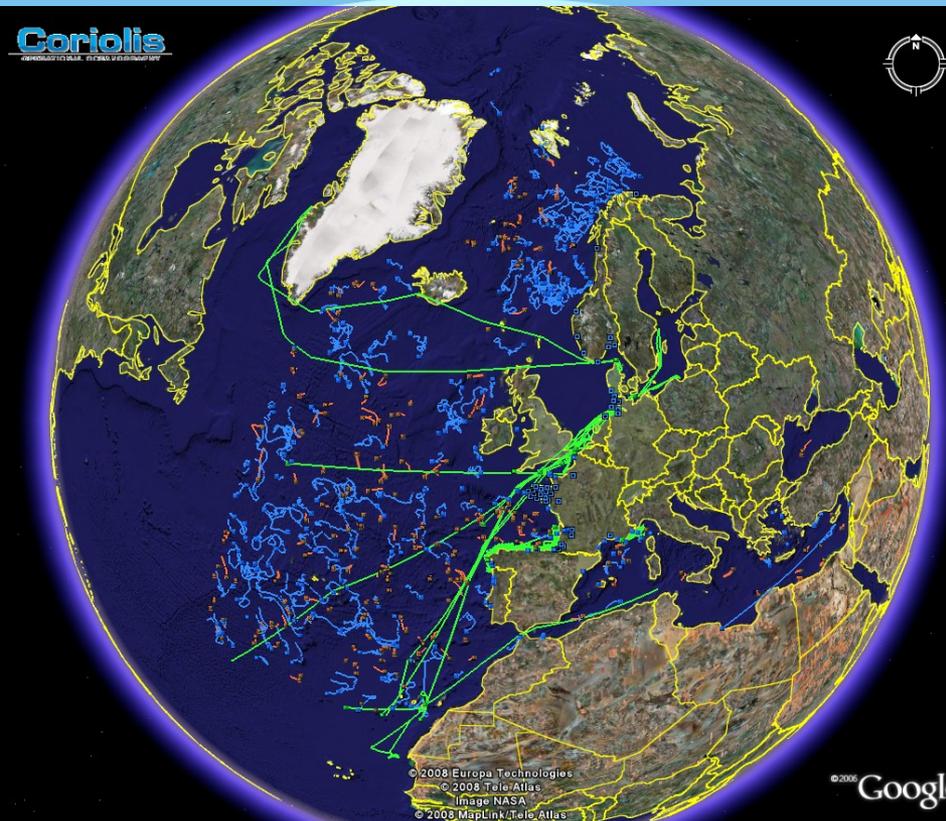
- **Poor technology**
- **Restricted access to data in military institutes**
- **Individuals**
- **Problems cooperating between institutes in the same country**
- **Resistance to releasing own data (but happy to collect others)**
- **Some institutes are simply not operational**
- **Some institutes are not interested in European cooperation**

SEPRISE Web site:

<http://www.seprise.eu>

Coriolis complementary system (daily/weekly updates)

Argo, XBT, CTD, gliders, moorings



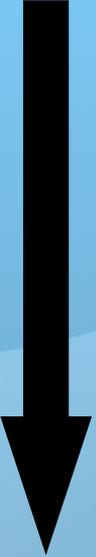
www.coriolis.eu.org/english/news/seprise.htm

What has SEPRISE achieved so far....?

- Meta data of the European real time oceanographic station network
- Got data onto servers
- Data has been made visible
- Increased and sustained the European oceanographic real time data exchange
- Collect data in any possible format and convert it into one single format
- Store data in a common database
- Made it work

SEPRISE ongoing/future

- SEPRISE is still active thanks to the contributors' willingness to keep it going and the support from the European Commission and from ongoing EU projects such as ECOOP
- Release all freely available data from a common database for real time data supply
- Add a common quality control procedure
- Same QC and data access (Netcdf, FTP, OpenDAP, GTS, WIS,.....)
- Add data (nutrients) from monitoring cruises (fixed repeated stations)
- Link to other similar initiatives at a global level, e.g. National Data Buoy Center (NOAA)



An aerial satellite-style map of Europe and the Mediterranean region. The map is overlaid with numerous small red circular markers, each with a black outline, indicating specific locations across the continent. A semi-transparent white rectangular box is centered over the map, containing the website address.

www.seprise.eu