ODIP: Establishing and operating an Ocean Data Interoperability Platform

EU – US – Australia cooperation

Proposal : 312492
Call: FP7-INFRASTRUCTURES-2012-1-INFSO
Activity: INFRA-2012-3.2 – International co-operation with the USA on common e-infrastructure for scientific data

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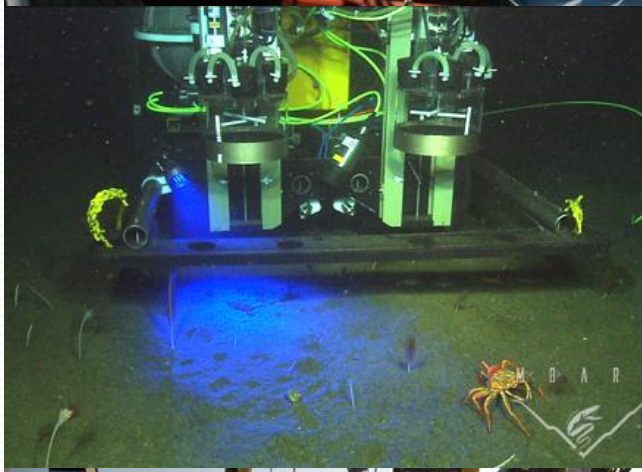
Concept

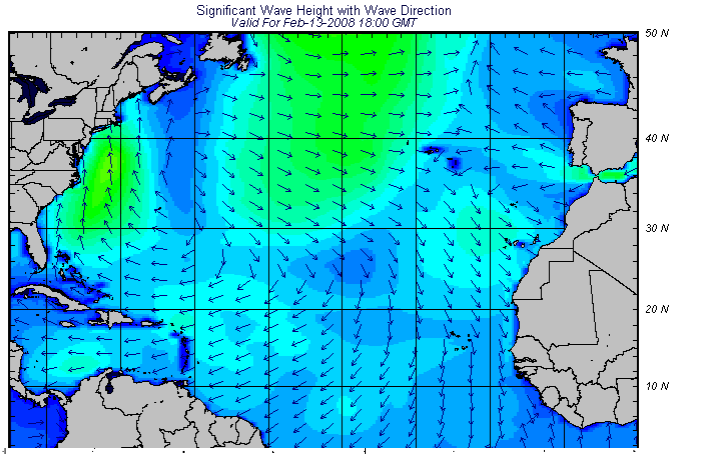
- A very wide range of multidisciplinary oceanographic and marine data
- Collected by thousands of organisations around the world
- Using a wide array of instrumentation and platforms
- Very considerable costs (e.g. in Europe in 2011 1.4 billion €)
- Often unique and therefore irreplaceable

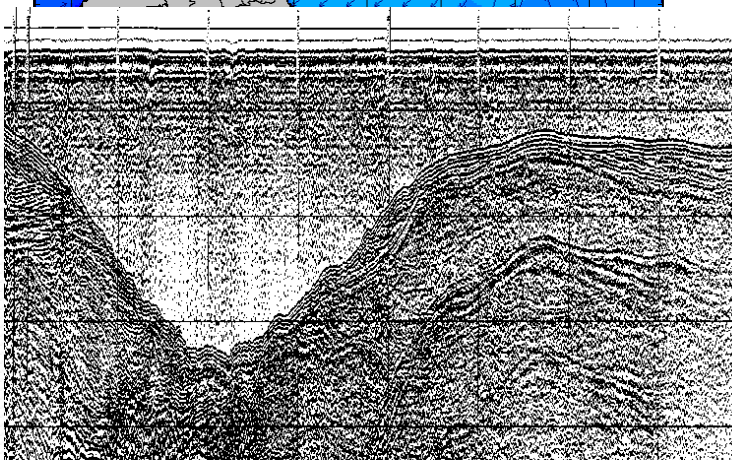
Capture once – re- use many times

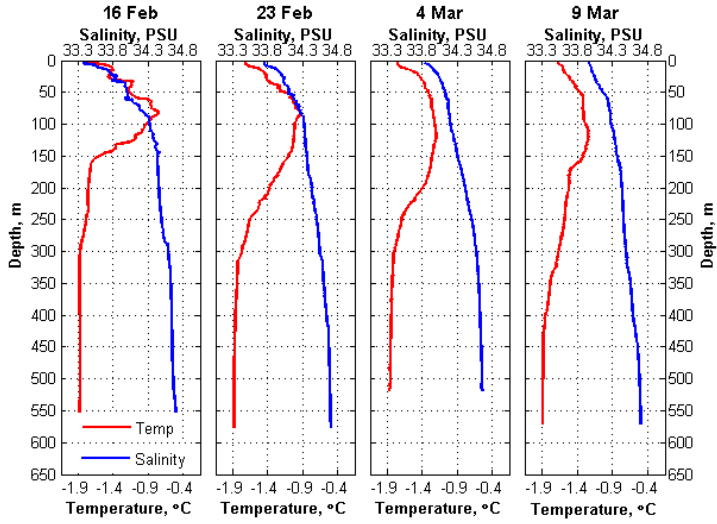


Barriers to re-use of marine data

- Use of different
  - Formats
  - Standards
  - Best practice
  - Co-ordinate systems
- National and organisational data access policies







E-infrastructures

- A number of regional initiatives have made significant progress in addressing these barriers by developing marine data management infrastructures

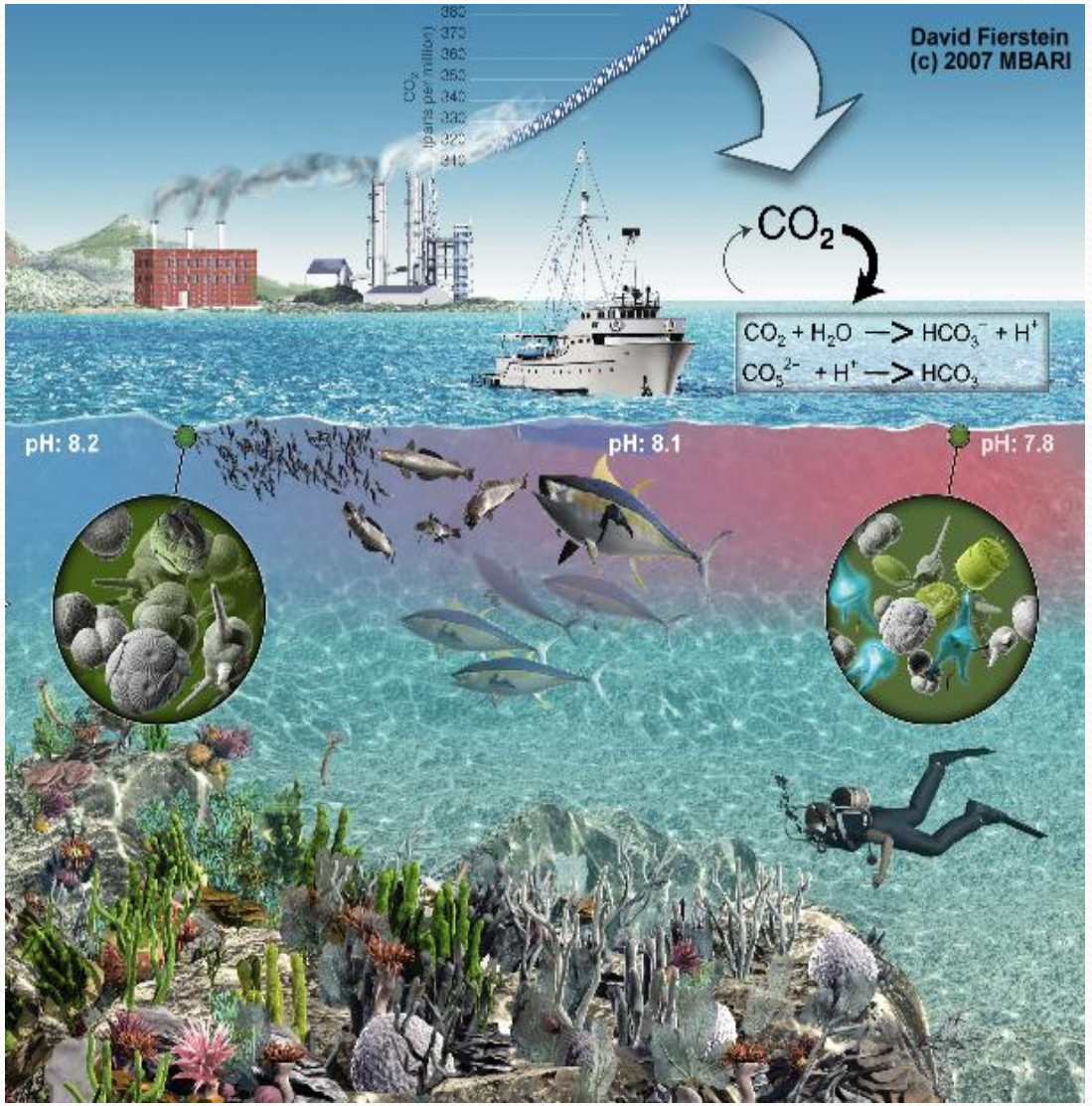
- Development of these infrastructures is being promoted and supported by international organizations such as UNESCO‘s Intergovernmental Oceanographic Commission (IOC)

Australia

Europe

USA

- Paradigm shift from traditional discipline based marine research
- Multidisciplinary ecosystem level approach: promoted in Europe by Marine Strategy Framework directive MSFD (2008)
- Large amounts of good quality data from a range of disciplines
- Common approach to marine data management



ODIP: Overall objective

- To establish an EU/USA/Australia/IOC-IODE co-ordination platform to facilitate the development interoperability between these regional ocean and marine data management infrastructures

- To demonstrate this co-ordination through the development of several joint EU-USA-Australia prototypes that would ensure persistent availability and effective sharing of data across scientific domains, organisations and national boundaries.

ODIP Partners: 19 organisations

- **Europe**

  NERC-BGS/BODC, MARIS, OGS, IFREMER, HCMR, ENEA, ULG, CNR, RBINS-MUMM, TNO

- **USA**

  San Diego Supercomputer Center, Scripps Institution of Oceanography, Woods Hole Oceanographic Institute (WHOI), UNIDATA, Lamont-Doherty Earth Observatory (LDEO), NOAA US-IOOS, NOAA US-NODC, NOAA NGDC, Florida State University - Center for Ocean-Atmospheric Prediction Studies

- **AUSTRALIA**
  University of Tasmania (IMOS)

- UNESCO IOC-IODE
  (Intergovernmental Oceanographic Commission)

Project start :

1 October 2012

(36 months)

Kick-off meeting: 20 November 2012
British Library,
London , UK