

EuroSITES

An integrated European network of deep
ocean multidisciplinary observatories

Coordinated by:

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EuroSITES
European Ocean
Observatory Network

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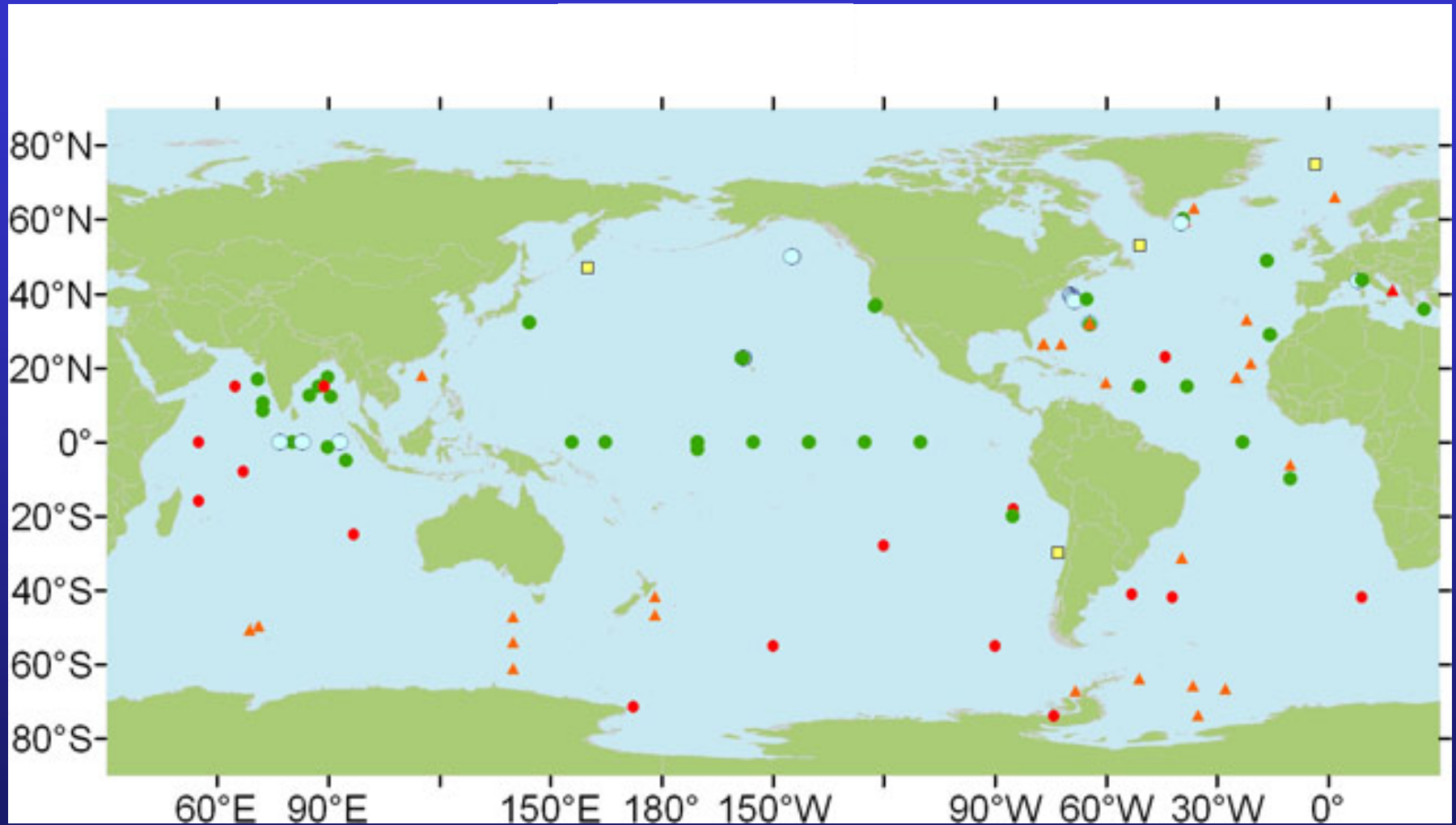
An integrated European network of deep
ocean multidisciplinary observatories

FP7: Collaborative Project:

3.5 M Euro requested and awarded

Start date: 1st April 2008

All EuroSITES observatories contribute to **OceanSITES** and will adhere to these principles and practices.



OceanSITES Aim: To develop a network of global interdisciplinary observatories <http://www.oceansites.org/>

Aims and Objectives of EuroSITES

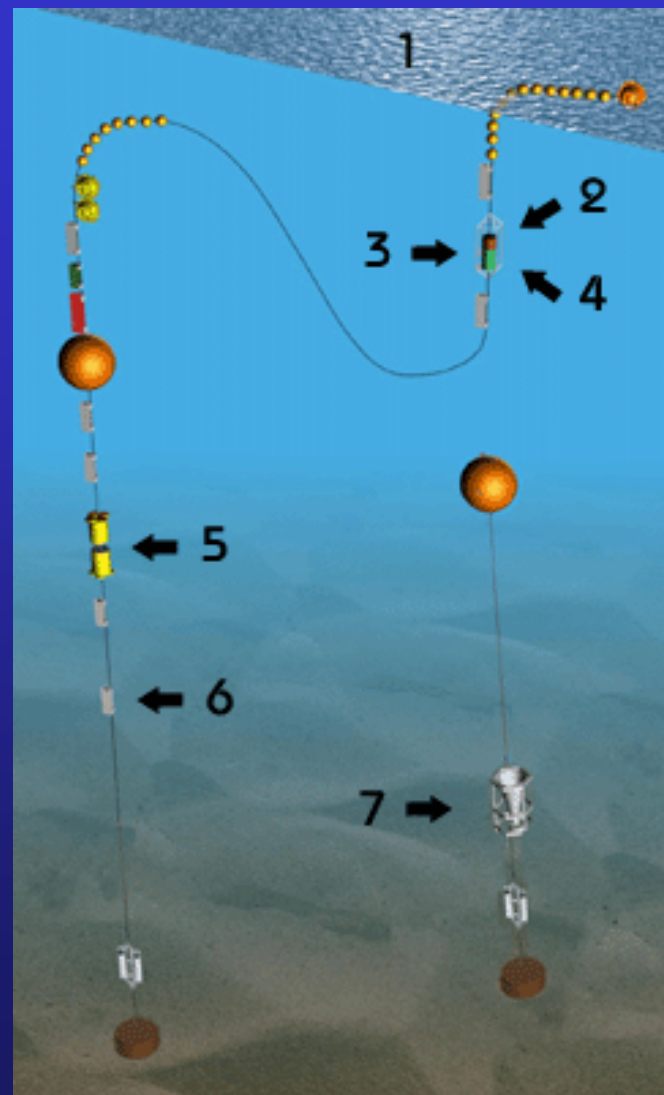
- To **integrate** and **enhance** the **existing** deep (>1000 m) ocean observatories into a coherent European network to encompass the **ocean interior, seafloor** and **subseafloor**
- To establish a pre-operational network but with the **vision of an operational network** in the future

9 Existing European deep ocean (>1000 m) observatories



Problems with existing capacity

- 1: Expertise not shared
- 2: Unequal hardware investment
- 3: No 'core' set of parameters (physical, biological and chemical)
- 4: Data management is not consistent
- 5: Links with seafloor and subseafloor not well developed



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Aims and Objectives of EuroSITES

- Complement and link to other existing initiatives (e.g. ESONET, EMSO, HERMES, MERSEA) to contribute to the subsea component of the European GMES

The EuroSITES Consortium: 13 Partners

1. NERC-NOC: Co-ordinators
2. UiB
3. HCMR
4. OGS
5. CNR-ISSIA
6. IFM-GEOMAR
7. UNIABN
8. CNRS
9. IFREMER
10. Océanopolis
11. ICCM
12. INDP
13. ULPGC

EuroSITES Structure:

WP6: Project Management and Coordination (Lampitt)

WP1: Existing Architecture (Coppola)

WP2: Global Integration and Future Vision (Østerhus)

WP3: Infrastructure Development: Ocean Interior to Seafloor (Cardin)

WP4: Infrastructure Development: Seafloor to Ocean Interior (Lykousis)

WP5: Data Management
and Knowledge Transfer
(Pagnani)

Oversight Committee

EuroSITES Oversight Committee

Dr. Holly Given	Director, Ocean Observing Activities, ORION . Geophysicist.
Dr. Mary Jane Perry	Member ORION Steering committee. Biological oceanographer.
Dr. Rick Jahnke	Chair, US Coastal Ocean Processes Programme. Member, Observatory Steering Committee, ORION . Deep ocean benthic biogeochemist.
Dr. Oscar Schofield	ORION Steering committee member. Coordinator of LEO15 observatory. Biological oceanographer.
Professor Chris Barnes	Project Director for NEPTUNE Canada. Expertise in sedimentary geology and paleobiology.
Dr. Uwe Send	Co-chair, OceanSITES Steering Committee. ORION Science and Technical Advisory Committee member. Former co-ordinator FP6 ANIMATE programme. Physical oceanographer.
Dr. Hans Dahlin	Director EuroGOOS . Oceanographer
Dr. Keith Brander	ICES/ GLOBEC coordinator. Fisheries biologist.
Dr. Uli Wolf	International Strategy for Disaster Reduction (ISDR) team member. Physical oceanographer
Dr. Dennis McGillicuddy	Ocean Modeller with expertise in the link between fluid dynamics and biology
Dr. Rob Armstrong	Ocean Modeller in marine ecology and biogeochemistry
Dr. Marion Gehlen	Member of CARBOOCEAN Steering Committee and Executive Board. Ocean Modeller, Biological oceanographer.
Dr. Alex Kozyr	Data manager . Chemical oceanographer.

Established "Oversight committee"

1. Links to OOI (Given, Schofield, Jahnke, Barnes, Send, Perry)
2. Assurance that the data are appropriate and accessible to the modelling community (Gehlen, Armstrong, McGillicuddy)
3. Firm communication with other data management systems (Kozyr)
4. Links to EuroGOOS, ICES and GLOBEC (Dahlin, Brander)

In addition to the integration of existing capacity EuroSITES will perform specific **science missions** and **develop new sensors** that will, in the future, form the basis for sustained monitoring of key environmental features linking water column activities with seafloor and subseafloor

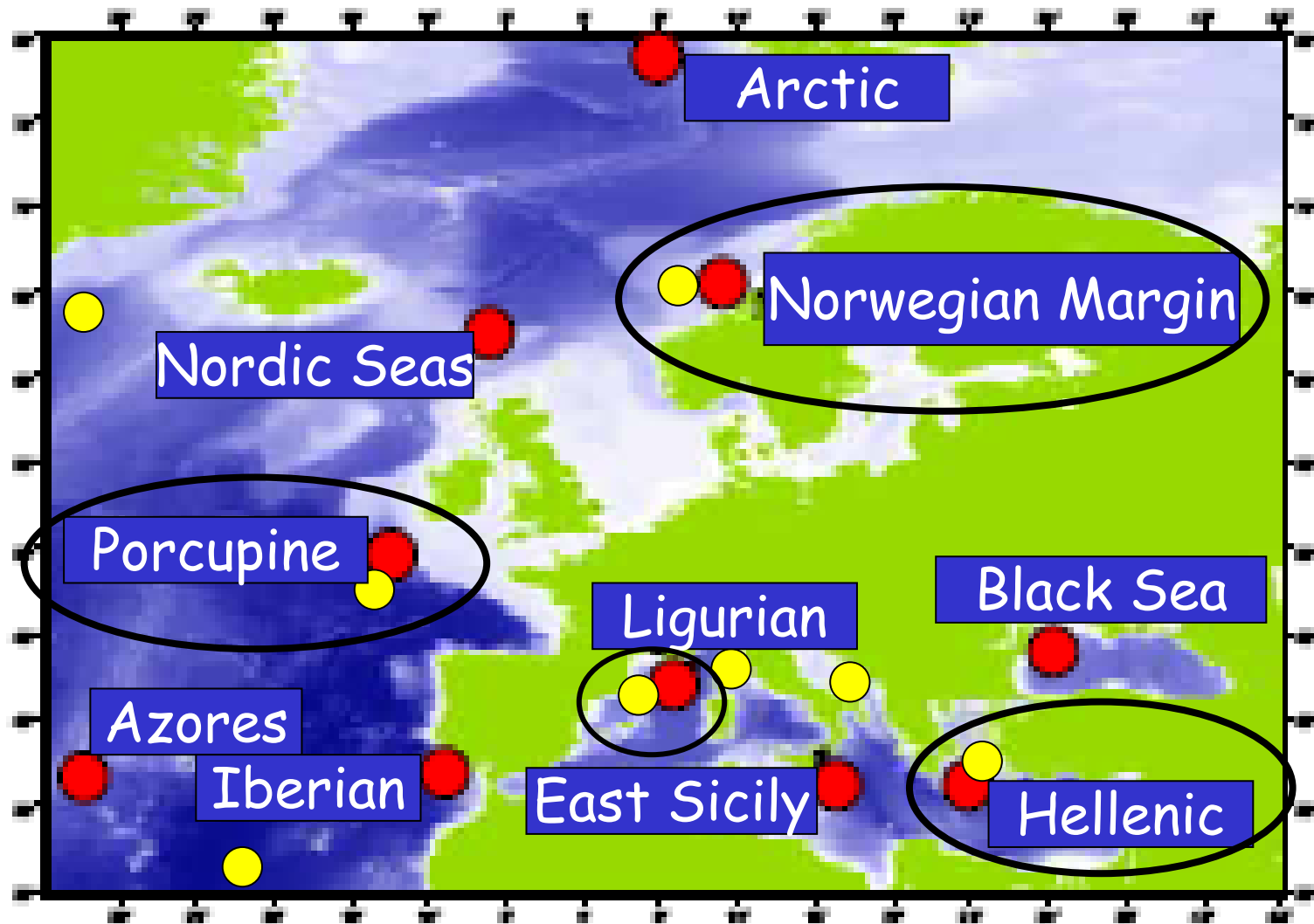
Water column:

- Mesozooplankton
- *In situ* Deep Ocean Oxygen consumption
- pH sensor - links to EPOCA FP7

Benthic:

- Benthic community
- Slope stability and pore water/seafloor pressure (Earthquake/tsunami detection)

[Link to ESONET](#)



● ESONET Nodes ● Existing EuroSITES Observatories

EuroSITES Contacts:

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www.eurosites.info



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Kick-off meeting, 18-19th April, Vienna