







MARCOM FORUM WORKSHOP

SEATECHWEEK
October the 9th - Le quartz Brest

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JERICO

A

Joint

European

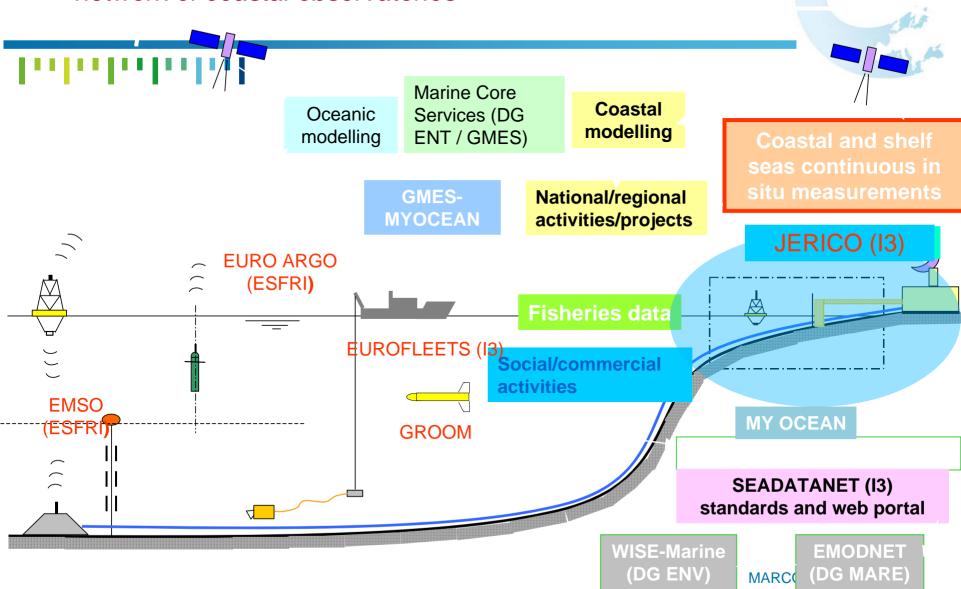
Research

Infrastructure network

for Coastal

Observatories

Towards a long-term and sustained European network of coastal observatories



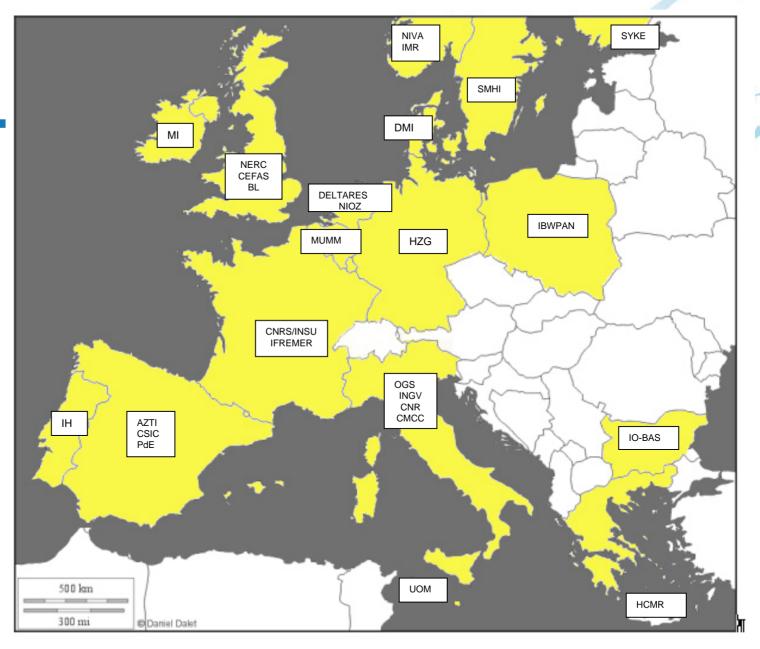
MAIN OBJECTIVE



<u> Indodededed</u>

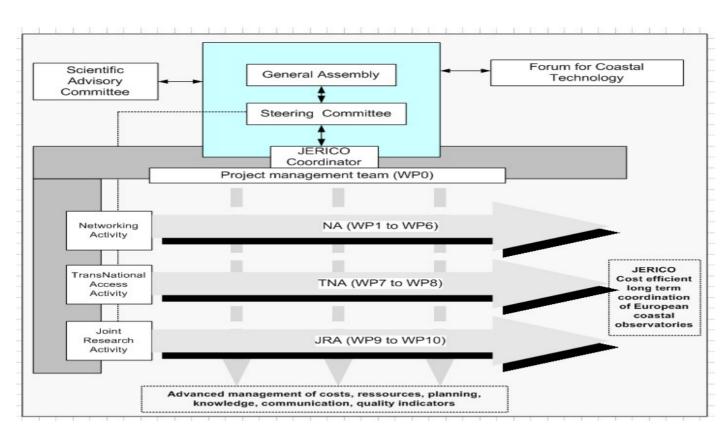
Prepare for the future European Network of operational coastal observatories through:

Better coordination
Increased harmonisation of existing infrastructures
Exchange of know-how and definition of Best Practices
Promoting coastal oceanography through TNA
Agreed deployment strategy



How the project is structured?





The JERICO Infrastructure Network





Ferryboxes

Joint European Research Infrastructure network for Coastal Observatories



Report on current status of Ferrybox D 3.1

Grant Agreement nº 262584 Project Acronym: JERICO

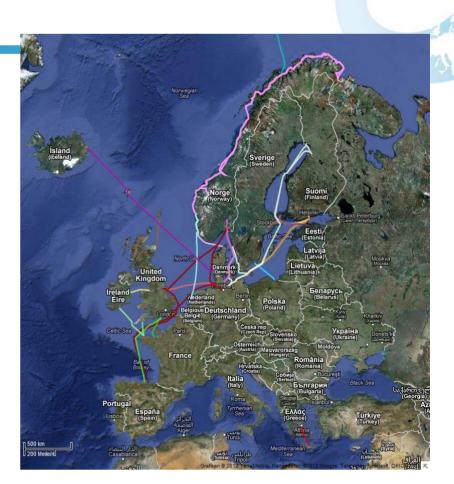
Project Title: Towards a Joint European Research Infrastructure network for Coastal Observatories

Coordination: P. Farcy, IFREMER,

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Authors: David Hydes, Wilhelm Petersen, Kai Sorensen, Pierre Jaccard, Mark Hartman

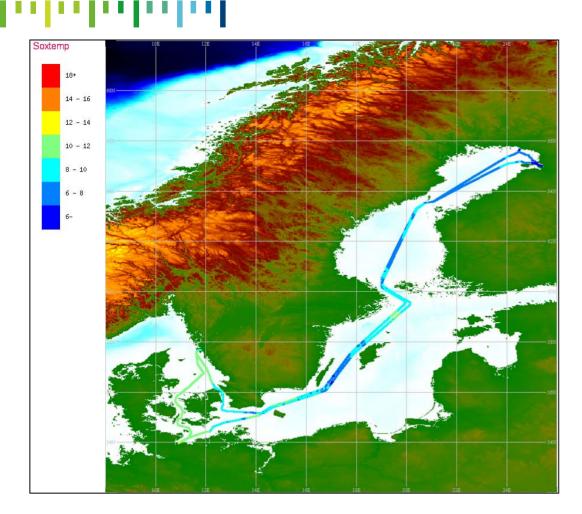
Involved Institutions: NOCS, HZG, NIVA Version and Date: 1.6 06.08.2012



www.ferrybox.org







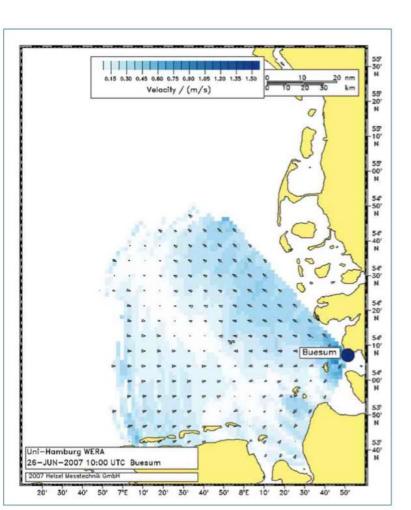
Jerico User Display for FerryBox

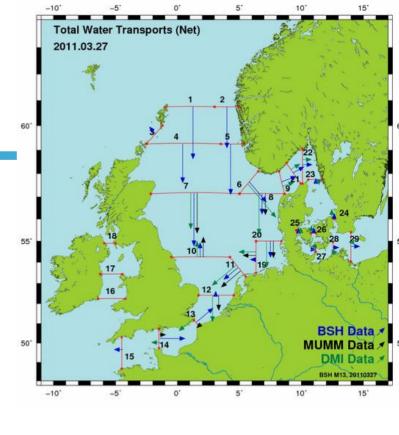
Figure 1. Track plot of the Transpaper ferry overlaid on a Gebco bathymetric image

Gliders Overview Fixed Platforms in Europe N52.5 waves phys. & biol. W15° W10° • sealevel E20° E5° N47.5° E10° N37.5 Imagery Date: 1/1/2000

TASK 2.2.1 CROSS REGIONAL INTEGRATION AND DEMONSTRATION

հունդերիակությու





Transport

Model products existing

observations for an observational based product existing

Users that are foreseen:

science related to ecosystem approach

OSPAR; MSFD

National requirements and outhorities

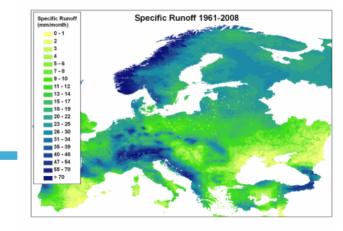
WORKING ON FOR USERS RELEVANT INDICATORS



իսիսիսիսիվ

- Position of fronts
- Upwelling indexes
- Currents, temperature, salinity and turbulence
- Fluxes of nutrients (though given sections)
- Timing (of peak spring bloom) and strength of primary prod.
- Contaminant exposure on plankton and benthic ecosystems
- Overlap between species (prey and predators)

TASK 2.2.2 CROSS REGIONAL INTEGRATION AND DEMONSTRATION



հունունունունու

E-HYPE

New, daily output, hydrological model based on widely accepted hydrological concepts (SMHI/HBV)

Integrated modules for nutrient and conservative tracers

Wide range of parameters modelled (runoff, soilmoisture, snowdepth, groundwaterlevel, N, P, O18)

Model used at local, regional and pan-European scale for research purposes

Updated version in November

WP10: Emerging technologies Objectives



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To examine the extent to which existing technologies can be improved and/or adapted to the benefit of coastal operational oceanography and to document and test emerging technologies that will underpin future operational oceanographic systems in Europe's coastal seas. The work package is sub-divided into 5 tasks:

- 1. New tools and strategies for monitoring key biological compartments and processes
- 2. Development of new physico-chemical sensors.
- 3. Use of emerging profiling technologies for coastal seas.
- 4. Increased use of **ships of opportunity** in making coastal oceanographic measurements.
- 5. Best practices in coastal observatory implementation





հունակակակակ

TO EXTEND THE USE OF OBSERVING SYSTEMS

HF RADAR

COASTAL SUBSEA OBSERVATORIES

VOO = VECTOR OF OPPORTUNITY

CARGO BOATS

FISHING VESSEL

SAILING BOATS

EXISTING MARITIME TRAFFIC BUOYS, WIND FARMS

OTHERS, SEA LIONS, DIVERS?

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RECOPESCA

Ifremer

A participative approach to collect data on fishing activities and environmental parameters

Collet

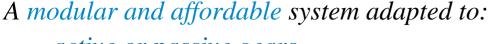
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Integrated multidisciplinary system

A sample of voluntary fishing vessels fit out with sensors (data logger)

Recording data on fishing effort, catches and physical parameters (temperature and salinity, turbidity coming soon) → Concrete achievement of participative approach

A sample of vessels representative of the whole fishing fleets (métier, fishing areas, length), at a national scale



active or passive gears the different types/lengths of vessels

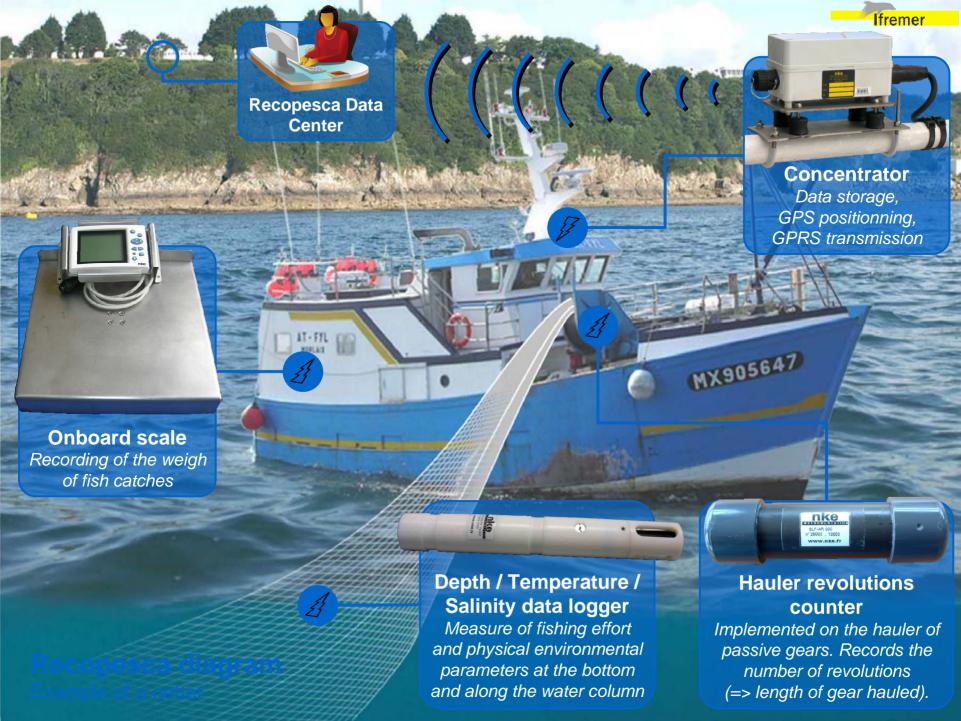
Recopesca relies on and feeds existing operational data centers:

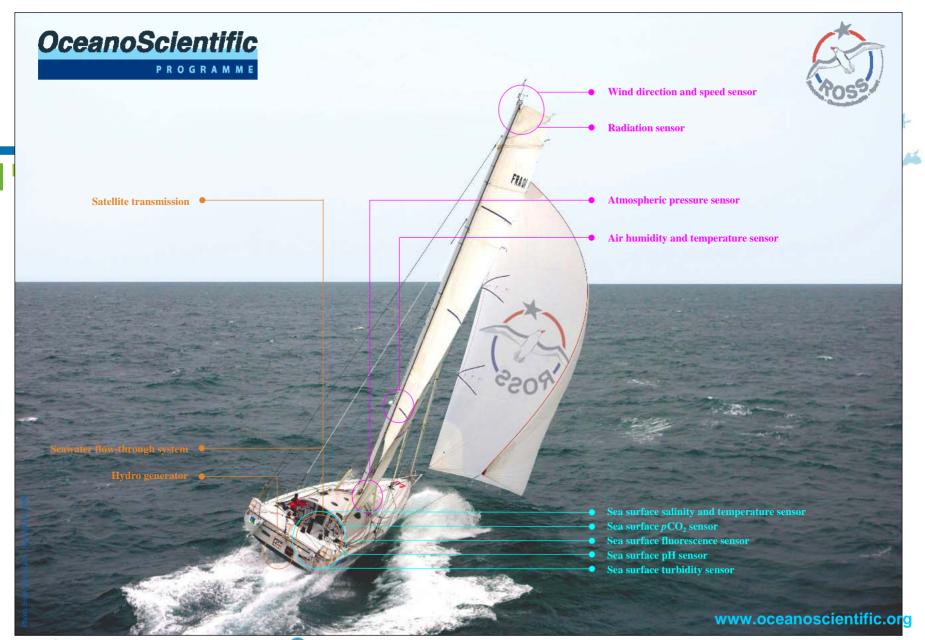






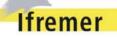










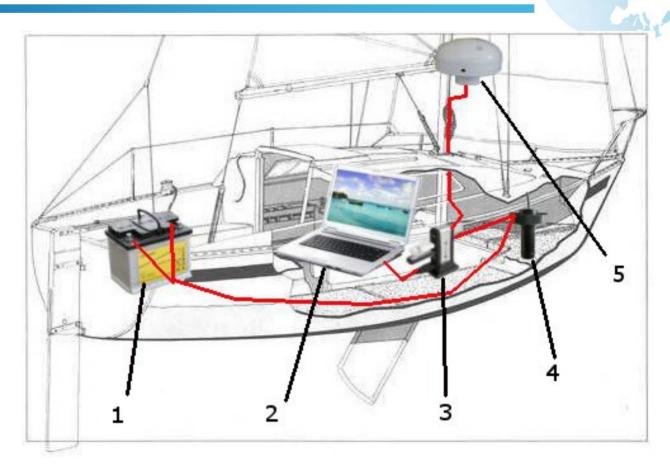






The CANOE system: how to include the observation by the society for the science





THANK YOU FOR YOUR ATTENTION