WP1
Strategic coordination vision

Task 1.4 : Innovative e-access generalisation

Eurofleets

Description of work

In liaison with the Industrial Advisory Committee and on the basis of the experience gained in e-access via WP8 and 9 "TNA1 and TNA2", **the objectives of this task are to promote this technology for cost efficiency purpose, further enlargement ("Europeanisation") of scientific parties, increase of impact of cruises in direction of students and young scientists and dissemination towards schools and more generally towards Society.** Sharing of the results achieved with European and non European ship owners/managers will be looked for best practice diffusion.

What has been done :

On-line survey to investigate equipment & services available on board research vessels in Europe, North America and Asia :

- Websites managed by institutes or fleet organizations

- Eurocean database for Eurofleets partners

- Developments realized in other WPs

What is being finalized :

A form has been sent to each partner in order to describe

for each institute, each vessel or kind of vessel (Regional / Global) :

- Equipment on board
- Services available on board
- Who can access these services (Captain, mission leader, scientific team, crew...)
- Services available on shore
- Sea/shore interactions, special events, perspectives...

Development of standard « use case »

Telescience or remote science :

- Periodical data transfert
- Data transfert for special investigation
- Real time video streaming for dive supervision
- Connection with experts

Based on field experiences :

- WACS 2011 & ICECTD 2012
- ANTARES Telescope ...

Development of standard « use case »

Dissemination towards schools and society :

- Websites update at sea or on shore

- Web interview or videoconference

- Real time video streaming

- Blogs for Kids

Based on field experiences :

- MOMARETO 2006

- BIG 2010

Development of standard « use case »

Remote support to the cruise:

- Equipment status
- Real time administration from shore
- Expert investigation
- Validation

Using available satcom links:

- Always ON systems : Ku or C band VSAT
- Ponctual events : FBB

Development of standard « use case »

Fleet operator - crew :

- Safety – Medical emergencies
- Weather forecast
- Computerized maintenance management system
- Map update, harbor information…

Link with family :

- Email, chat
- Public phone

Perspectives

Projects :

- Eurofleets 2
- NOAA Ocean Explorer program – R/V Okeanos Explorer

New technologies :

- Ka band satcom
- 4G- LTE coastal wireless networks

Comments & questions