



Koninklijk Nederlands Instituut voor Zeeonderzoek

# **NIOZ and OFEG updates 2013**

Erica Koning, RVOC 2013



NIOZ 2012

**Main event for NIOZ:** Merger with the former Delta Institute Yerseke

The Delta institute was founded in 1957 to monitor the ecological effects of the 'Delta Works', the system of surge barriers that was built after the storm and subsequent floods of February 1953 when approx. 1800 people died in the Southern Delta.







RV Luctor  
Length: 32m



## NIOZ ships

- NIOZ now has 3 ships
- 2 Coastal
- Luctor (mainly Southern delta), 32m
- Navicula (mainly Wadden Sea), 26m
- 1 crew, so 183 operational days.
- Pelagia: 66m, all oceans (except (Ant)arctic and Pacific).







## Pelagia cruise plan 2012

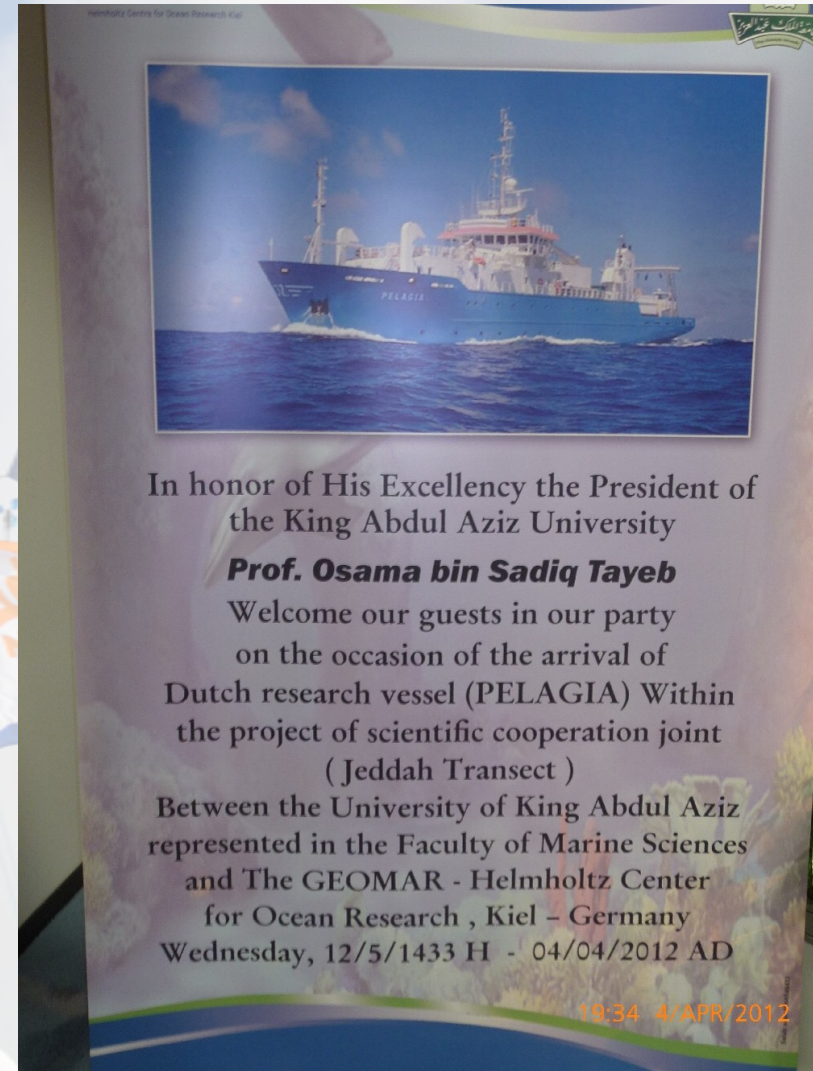
Because of budget cuts and increasing costs we need charters

- Maximum 3 months per year
- Semi-scientific
- Semi-commercial rate is required
- Original cruise plan 2012:
  - Charter January – April ( $\pm 120$  days)
  - Charter July (30 days)
- Remainder of the year: North Sea and North Atlantic.
- Last week September: INMARTECH and Visitor's day.



## Main event 2012

- Biggest event in 2012:
- 63 day charter Red Sea: for GEOMAR Kiel, Germany in cooperation with the King Abdulazziz University in Jeddah.
- The cruise took place in the Atlantis Deep, central Red Sea, in Saudi and Sudanese waters, a mineral-rich are. Also biology further South, close to the Jemeni border.
- Arrangements difficult
- Piracy issues





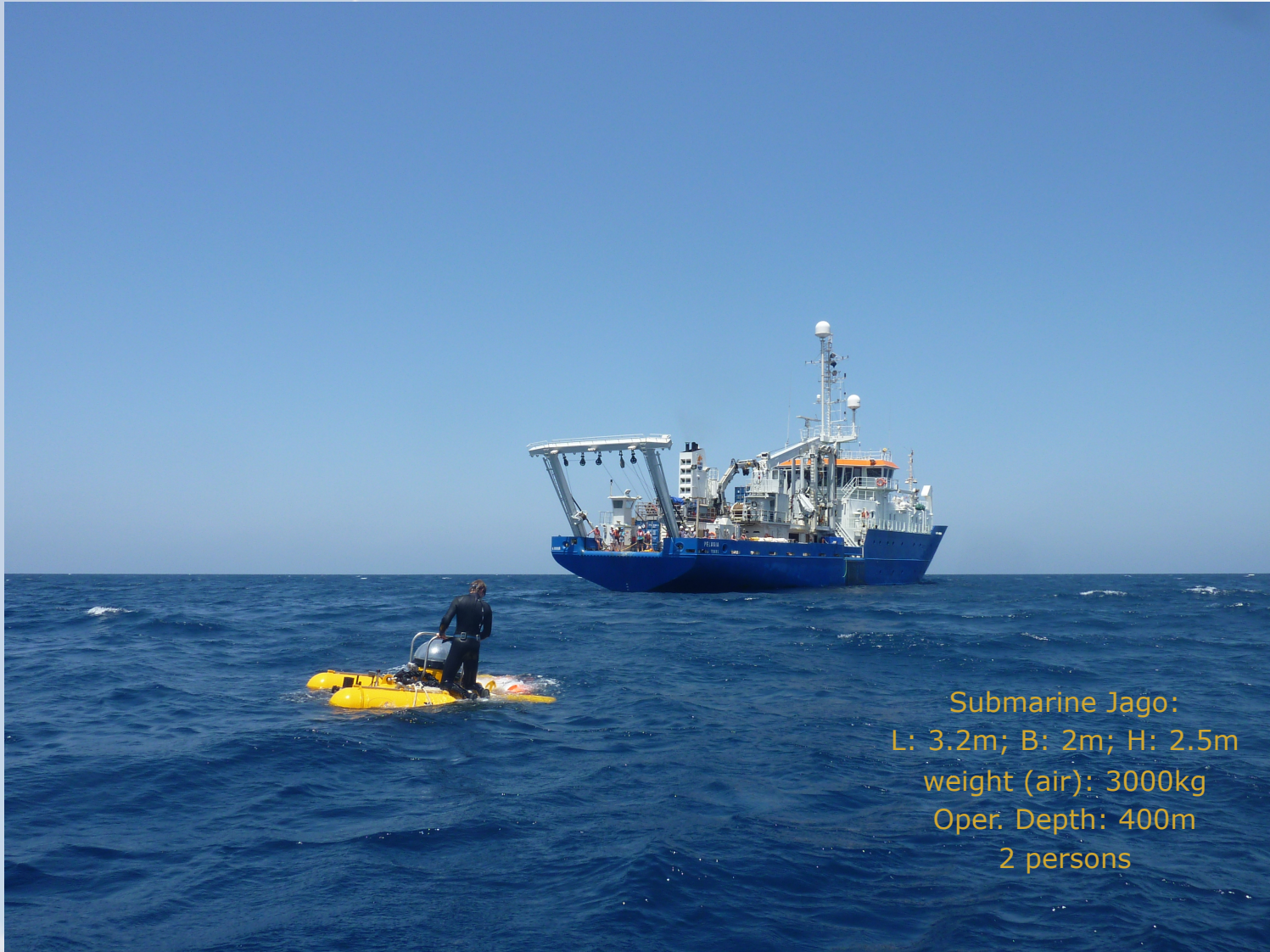


## Piracy protection below 20°N



6:57 7/APR/2012





Submarine Jago:  
L: 3.2m; B: 2m; H: 2.5m  
weight (air): 3000kg  
Oper. Depth: 400m  
2 persons









## INMARTECH: the biannual meeting for marine technicians

- 85 participants from 16 countries
- Mainly short talks and demonstrations
- Workshop 'making connections in optic fibers'
- Next INMARTECH: 2014, in Oregon.







## Visitors day at NIOZ





## OFEg and OFEG-tech

- Exchange of ship time and equipment
- Efficiency and cost reduction
- However: 2012: 1 'normal' barter cruise only
- Increasing activity in joint cruises: 2 or 3 countries sharing ship, equipment and technicians.
- This year there will be renewed focus on harmonizing cruise plans to make the most of our barter options





- To do this properly the most important OFEG document is:
- Ship deployment paper: shows where our ships will be in the coming year.
- More important: joint scheduling, more so because our scientists are in joint EU programs and less money is available because of budget cuts.

### **Deployment of OFEG Research Ships in 2013-2014**

It is anticipated<sup>1</sup> that the twenty European research ships of the Ocean Facilities Exchange Group (OFEG), which provides ship-time and equipment exchanges for UK, French, German, Spanish, Norwegian and Dutch scientists under the Tripartite Agreement, will be operating in the following regions in 2013 - 2014:

#### **Dutch research ship**

- PELAGIA: North Sea, Mediterranean, Black Sea, Caribbean

#### **French research ships**

- POURQUOI PAS?: North Atlantic (W & E), Mediterranean Sea
- L'ATALANTE: N. Atlantic, Mediterranean Sea,
- THALASSA: North Atlantic (E)
- LE SUROIT: North Atlantic, Mediterranean Sea

#### **German research ships**

- ALKOR: Baltic & North seas
- HEINCKE: North & Baltic seas
- POSEIDON: Red Sea, Med, Subtropical N. Atlantic (E)
- MERIAN: South Atlantic
- METEOR: Mediterranean, North Atlantic, Baltic, open from sep on
- SONNE: SW Pacific

#### **Norwegian research ships**

- G.O. SARS: Barents Sea, Norwegian Sea, North Sea, East Atlantic
- JOHAN HJORT: Barents Sea, Norwegian Sea, North Sea, East Atlantic
- HAKON MOSBY: Barents Sea, Norwegian Sea, North Sea

#### **Spanish research ships**

- HESPERIDES: North Atlantic (E & W), Southern Ocean
- SARMIENTO DE GAMBOA: North Atlantic (E), Mediterranean Sea

#### **UK research ships**

- DISCOVERY: subtropical to subpolar North Atlantic (E), E. Pacific
- JAMES COOK: North Atlantic (E&W), South Atlantic
- JAMES CLARK ROSS: Arctic, North & South Atlantic, Southern Ocean



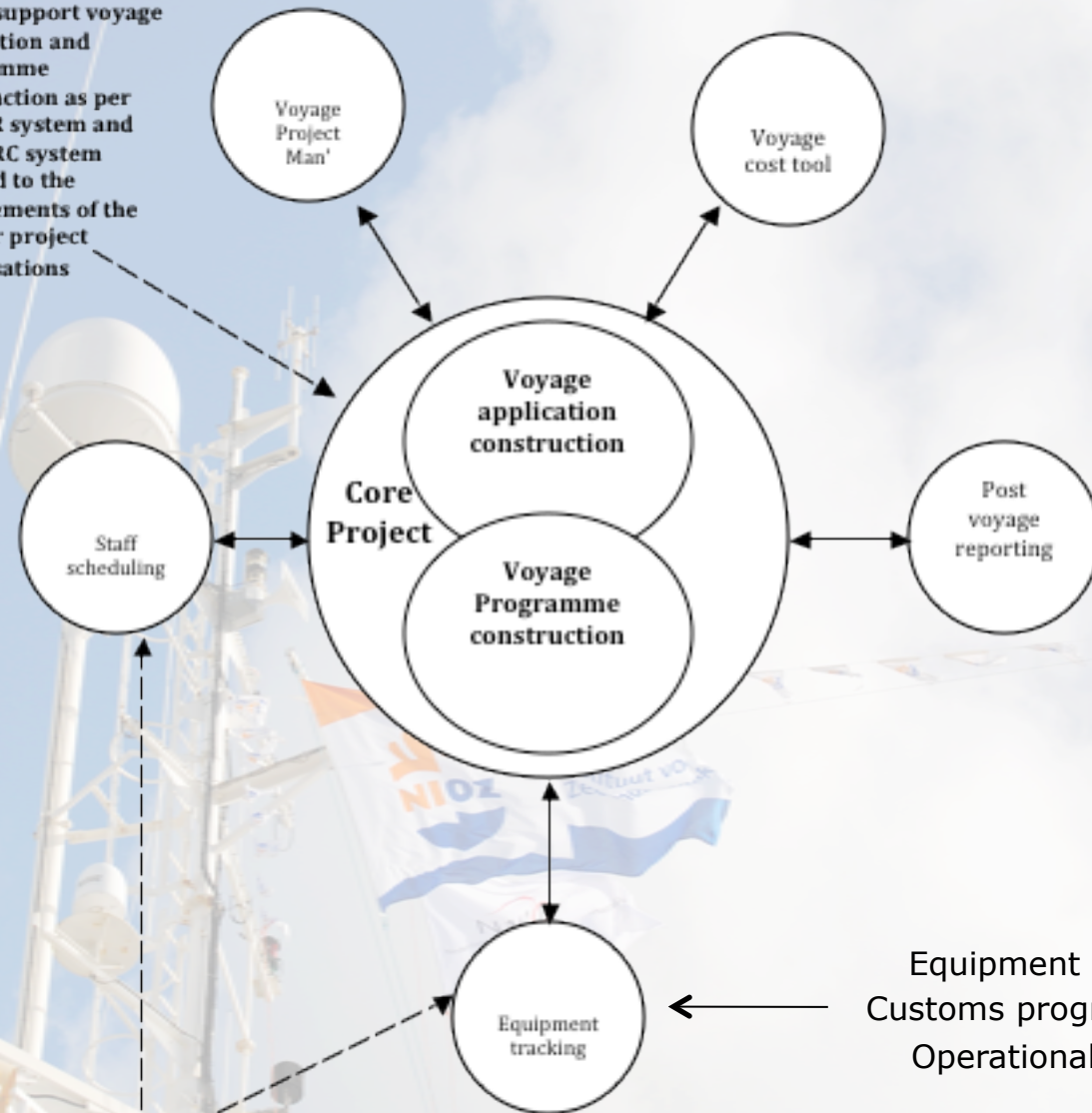
- More large equipment will now be available for barter; bartering will also extend to smaller equipment.
- We continue to talk about harmonizing procedures such as medicals and trainings
- Technicians from OFEG partners will join Discovery trials cruises that are now going to take place.
- OFEG is currently commissioning a web-based cruise planning program.



# OFEG cruise planning



The core project would support voyage application and Programme construction as per the IMR system and the NERC system tailored to the requirements of the partner project organisations

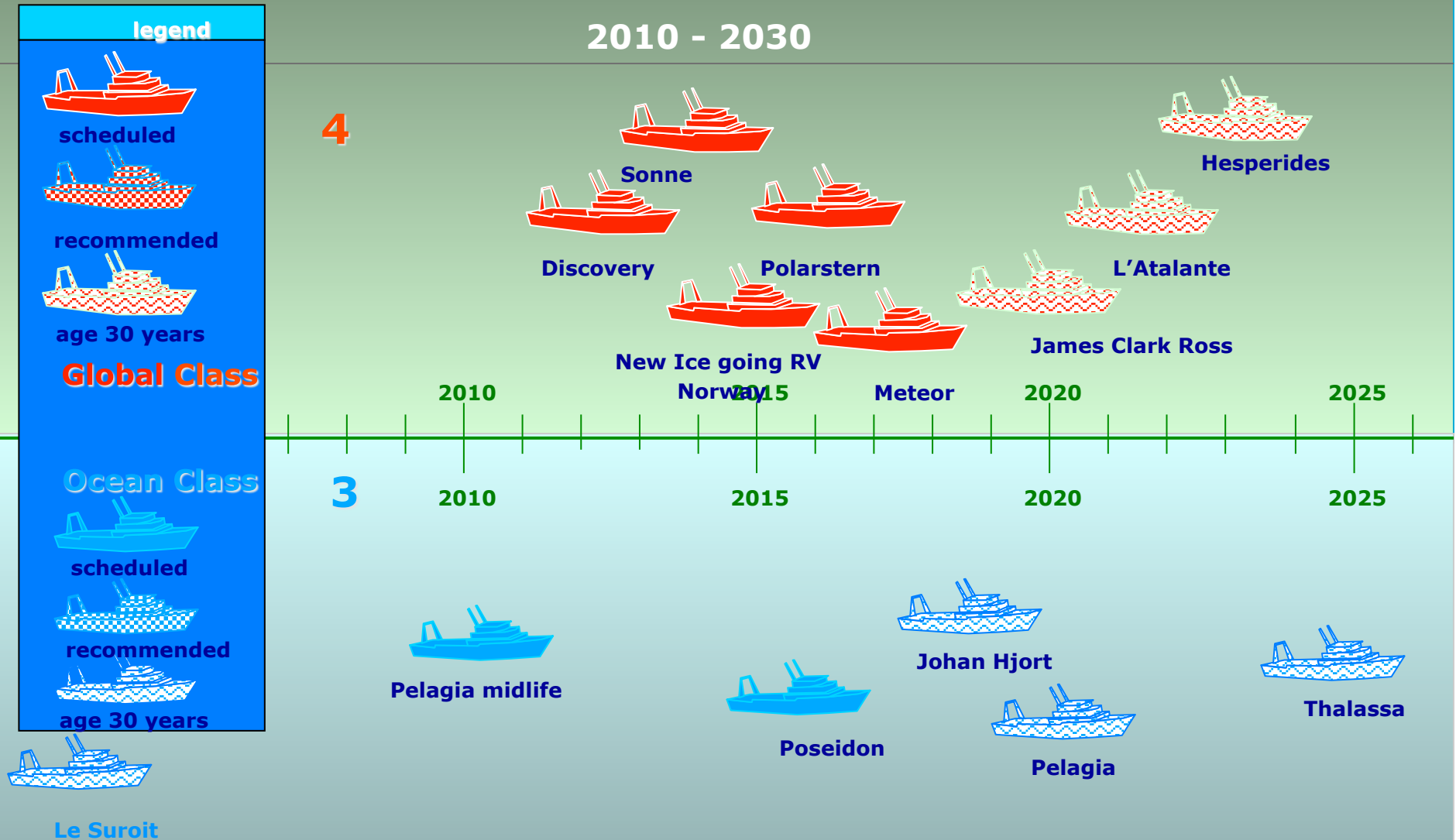


Satellite applications could support specific voyage/programme management functions based on individual national organisations needs. The design of these applications would be compatible for interfacing with the core project applications therefore available for other partners to adopt if desired.

Equipment tracking/  
Customs program already  
Operational at NIOZ

# Roadmap of Renewal of OFEG Ocean and Global class RV fleet

2010 - 2030



8 Scheduled and recommended renewal/replacements of RVs built before 2000

5 RVs built after 2000: Global Class: Pourquoi Pas? 2005; James Cook 2007  
 Ocean Class: G.O. Sars 2003; Maria S. Merian 2005;  
 Sarmiento de Gamboa 2007





## OFEG meeting Spring 2012 Visiting Discovery

