

Koninklijk Nederlands Instituut voor Zeeonderzoek





NIOZ 2016-2017

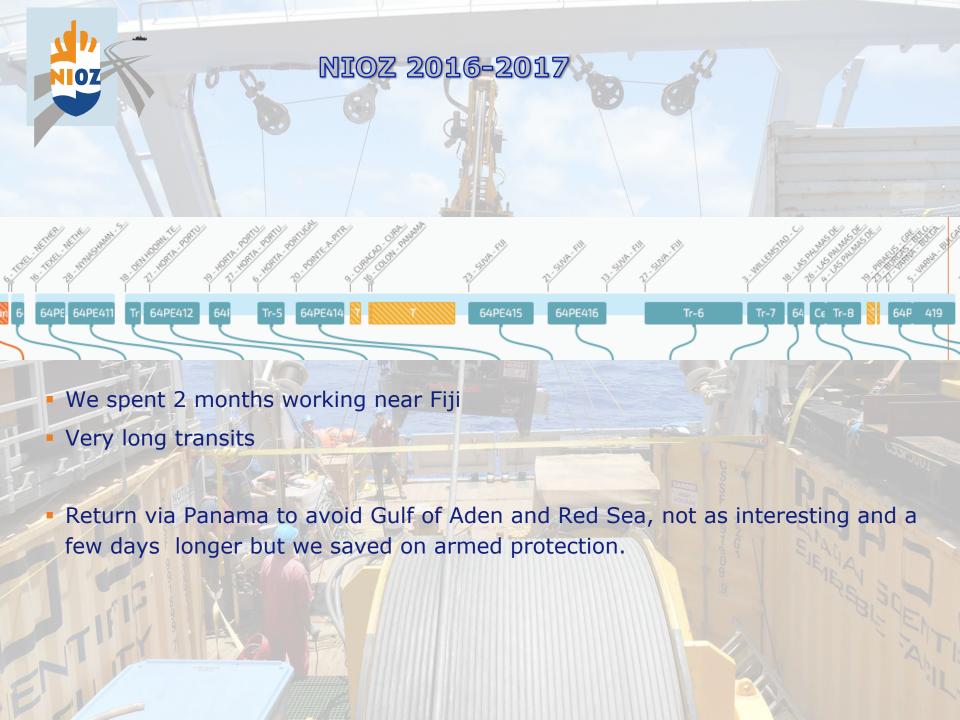
- NWO (Dutch organization for scientific research) is in the middle of a reorganization which also affects NIOZ
- Lack of funding continues

- Positive side: the preparation phase for a new research ship is now on the national roadmap for large infrastructure.
- Many interested parties (fundamental, applied, industry).



NIOZ 2016-2017

- Last year: I mentioned Pelagia might go around the world.
- Coming Saturday Pelagia will return to Texel, after a long trip that started on 6 May 2016.
- Original plan when we started out was to go via the Caribbean to Fiji, then to Mauritius for a possible charter and continuing to the Red Sea for a science program and Black Sea and Mediterranean for more science work.
- Charter didn't happen and the Red Sea program had to be cancelled or postponed because arrangements with the Saudis couldn't be made in time.
- Instead we replaced a surface buoy that was drifting near Cape Verde Islands and had been picked up by our German OFEG partners.







deep see cable:

- Next: maintenance on ship and deep-sea winch
- Testing a new cable

Cousins cable	New Cable
20mm	20mm?
aramid	Vectran/Arnitel mantle?
Copper and optic fiber	Copper and optic fibers
20Tn / 10Tn	More stable
8000m	9600 if 20mm

 Difficult process; limited number of manufacturers, not an off-the-shelf product. Expensive.



New cable

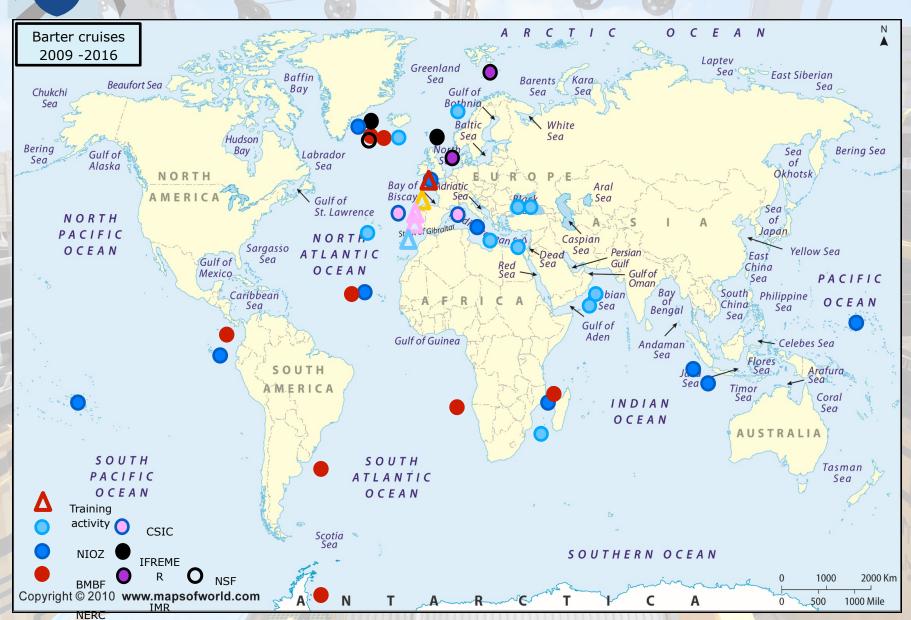
- We looked at Dynema, Vectran, Aramid
- More complicated because we use a double traction winch
- 2 options: Cousins again or a new manufacturer
- Cousins twice as expensive during tender!
- Test piece: 300m, long enough to test the cable over the traction as well.
- Test setup:
- Crane, 35m high, weight 3600kg.
- Test: haul up and lower the weight 1000 times. Our current cable passed such a test.







OFEG





OFEG

- 2 main discussions at the moment: insurance
- Marine facilities planning programme to be used by OFEG members.

- Insurance of equipment. In OFEG, we agreed that risk stays with the owner.
- When more very expensive equipment gets bartered this may no longer hold up.



OFEG-Marine Facilities Planning

 MFP program is now fully operational in NIOZ and NERC and will be adopted by Norway, Spain, Germany.

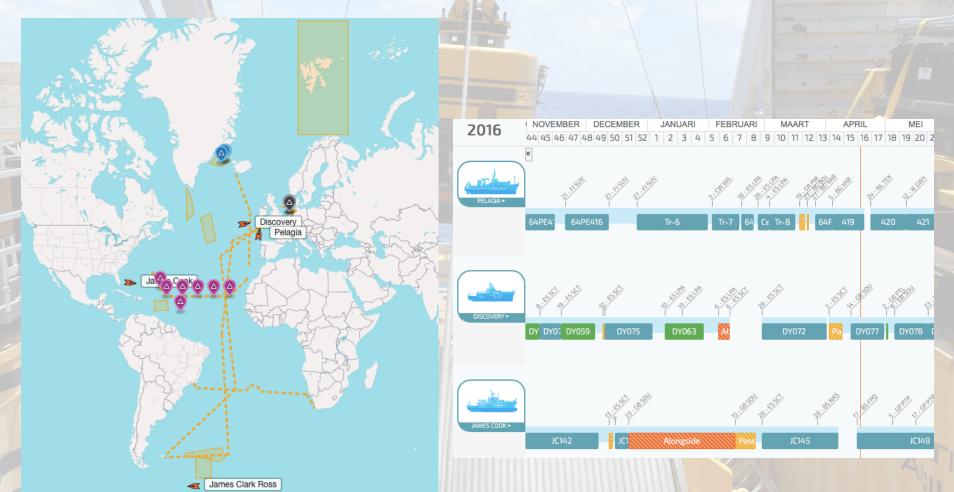


Latest addition: Phone app!



OFEG-Marine Facilities Planning

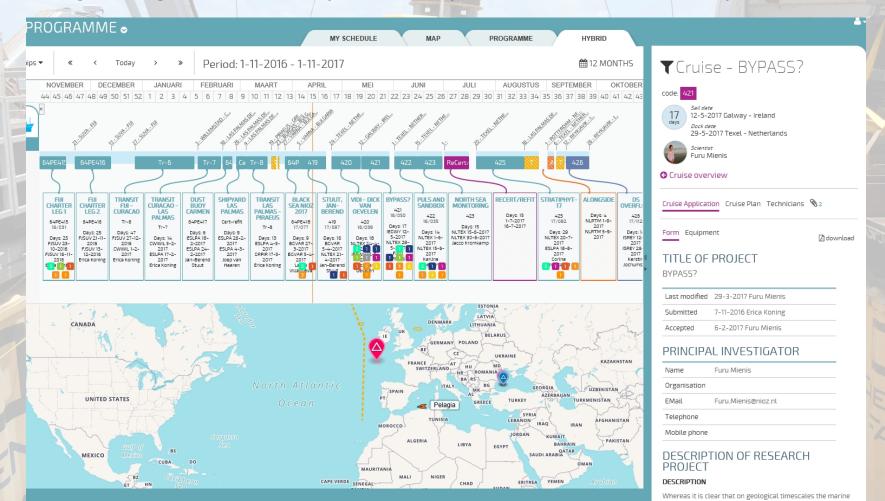
 OFEG partners will be able to share programs and we can see where each others ships are in case of problems with equiment.





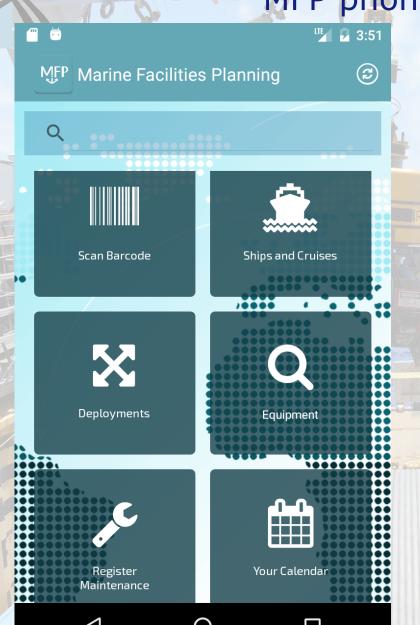
OFEG-Marine Facilities Planning

 Because MFP is web-based, master and chief officer on board have direct access to all relevant information related to the cruise. Science party, dangerous goods and safety sheets, diplomatic clearance, work plan.





MFP phone app







Stuut, Jan-Berend
Eastern Mediterranean
Jan-Berend Stuut

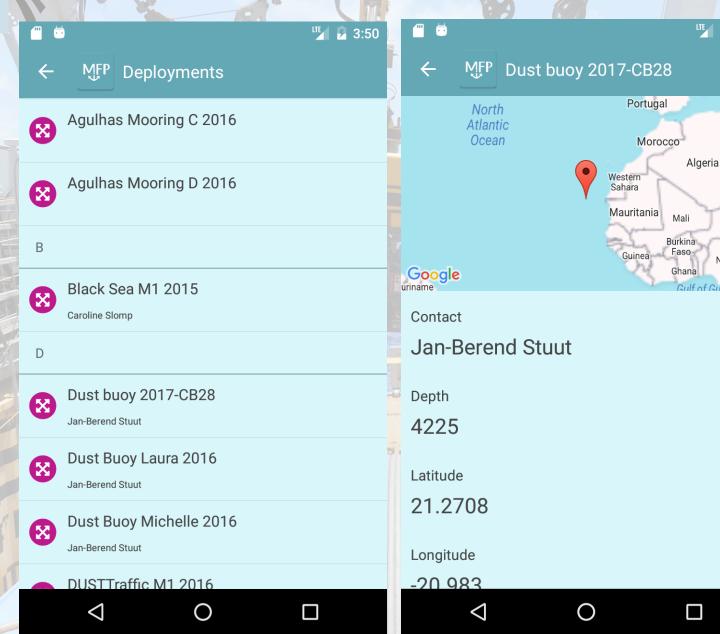


COS/HZG/Univ boxcore cruise 3

Lauers basin western Wadden Sea Henk W. van der Veer



Deployments, moorings, gliders etc.



Tunisia

Niger

