OFEG-TECH 2013 at MARUM

Recent Developments at NIOZ

Marck G Smit
Jack Schilling

21 nov 2013
General developments

- Strong focus shift at major funding body NWO! Shift to: Applied Research and collaboration with industry (e.g. Deep Sea Mining)
- Budget cuts from NWO
Self unfurling mooring systems

- KM3Net: 2 extra ‘launchers’, next trials mid 2014
- Trials for standard moorings

Movie Jack
Shallow water sedimentation sensor

- Easy to deploy
- Accuracy
- Endurance
Renovation of the mechanical workshops

4 months in temporarily shed

Moving back
ROV collaboration with VLIZ

- Cherokee ROV
- Previous of Gent Univ.
- 1400 m
- NIOZ: maintenance & developments
Nederlandse lab op Antarctica open

Gerechtshof voor 22ste eeuw staat aan het Grote Verhaal

Maandag 21 januari: Free BBQ aan twellingbroer sport 21-23

Worldkampioen sprint met dank aan tweevingbroer
Ultra Clean Zodiac Winch + bottles

- Full titanium
- Battery powered
- To 600 m depth
- PVDF Ultra Clean sampling bottles
Mid Atlantic surface moorings

- Array between Mauretania and Venezuela
- Waterdepth 5 km
- 3 Mobilis buoys
- Measuring trans Atlantic Sahara dust flux
- 4 year deployment
Mid Atlantic mooring design

- German and UK track record
- Dn 50 mm rubber stretchers
- In house calculations
- Model basin tests begin 2014 to validate
Mid Atlantic – Dust collector
"Effective Technology for Excellent Science"

Remarks?

Questions?

msmit@nioz.nl