AADI DO Optodes

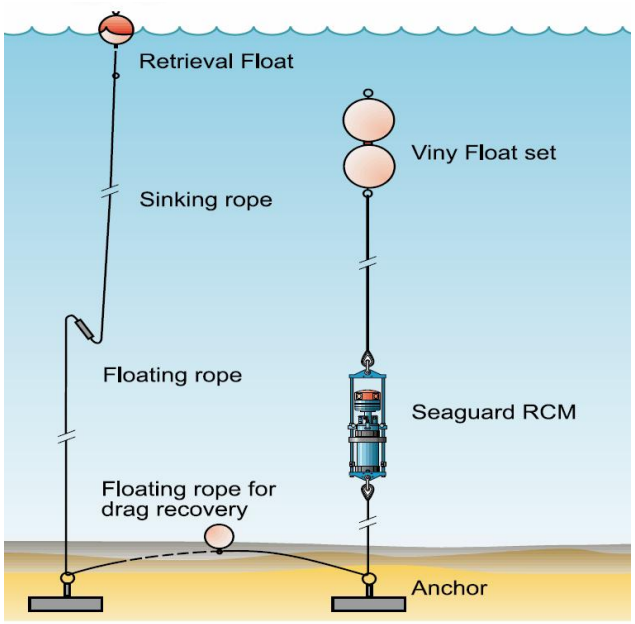
- Long term stability
- Low maintenance
- Rugged – operating depth 6000 m/~20,000 ft
- Stirring insensitive
- Low susceptibility to fouling
- Fully stand alone and autonomous; provides calibrated data directly
- Easy to integrate

AADI DO Optodes Platforms

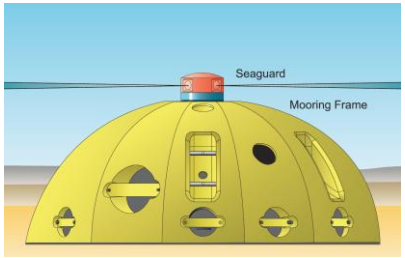
SEAGUARD® Datalogger

Real-time data via cable or acoustic link

In-line mooring

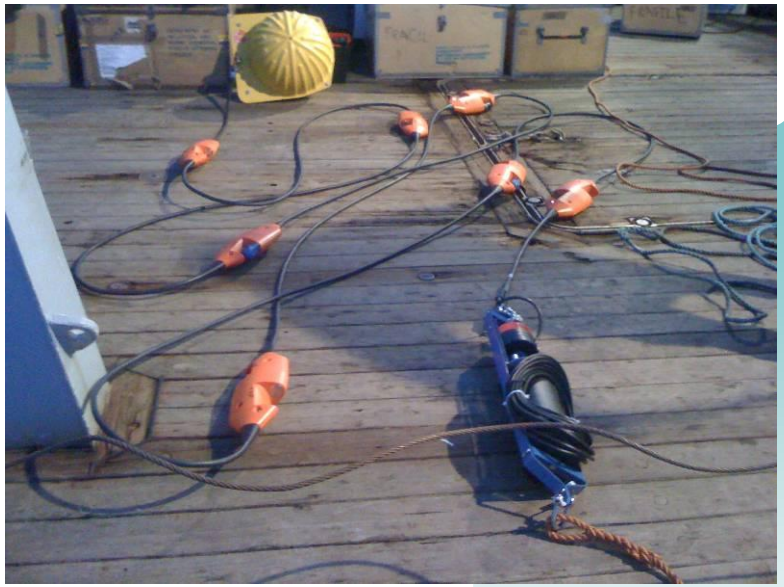


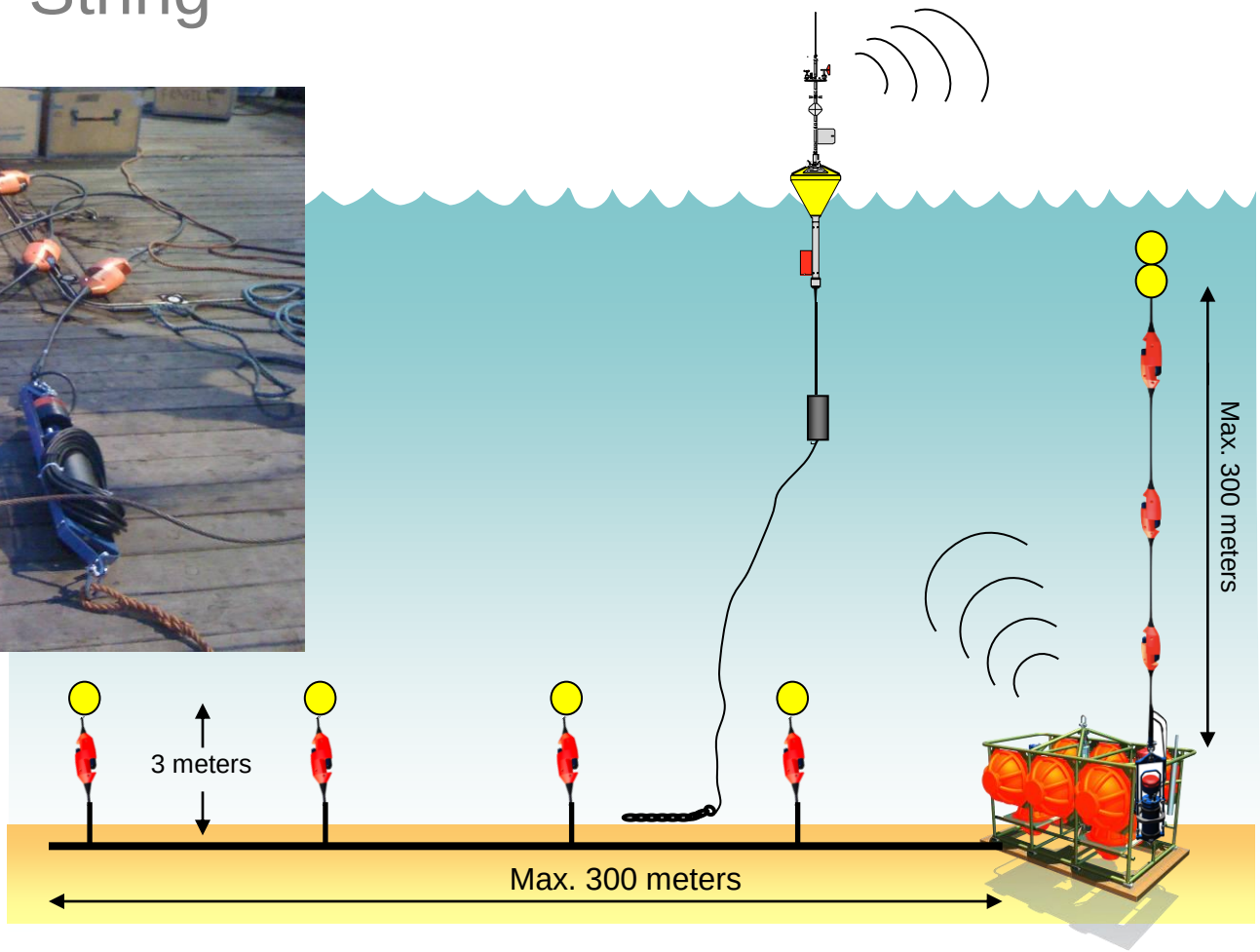
Seabed mooring



AADI DO Optodes Platforms

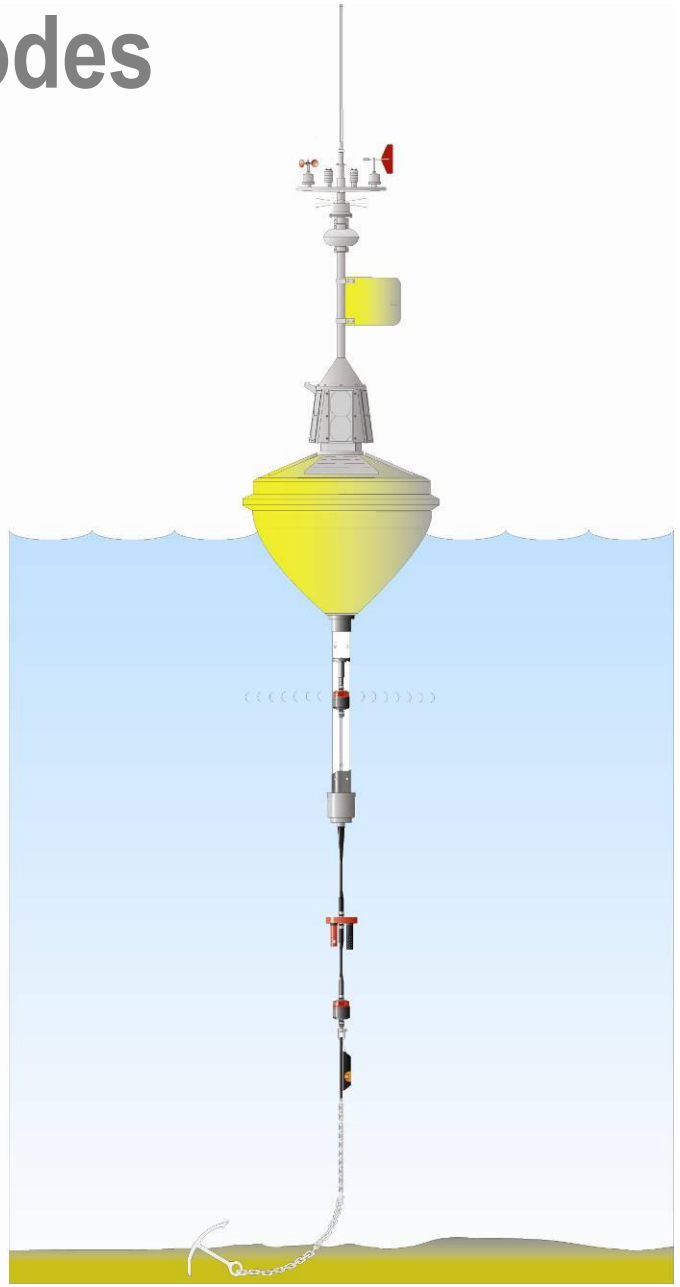
SEAGUARD® String





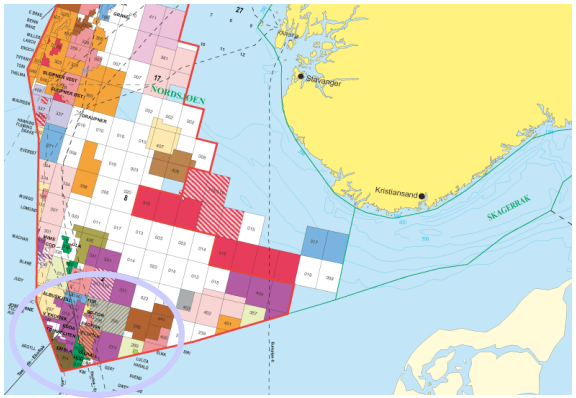
AADI DO Optodes Platforms

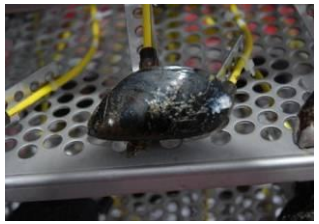
- Data Buoy 4700
  - Provides DO measurements at several depths
  - Real-time data via VHF, GPRS etc.
  - Multiple choice of sensors



AADI DO Optodes
Example of spill detection

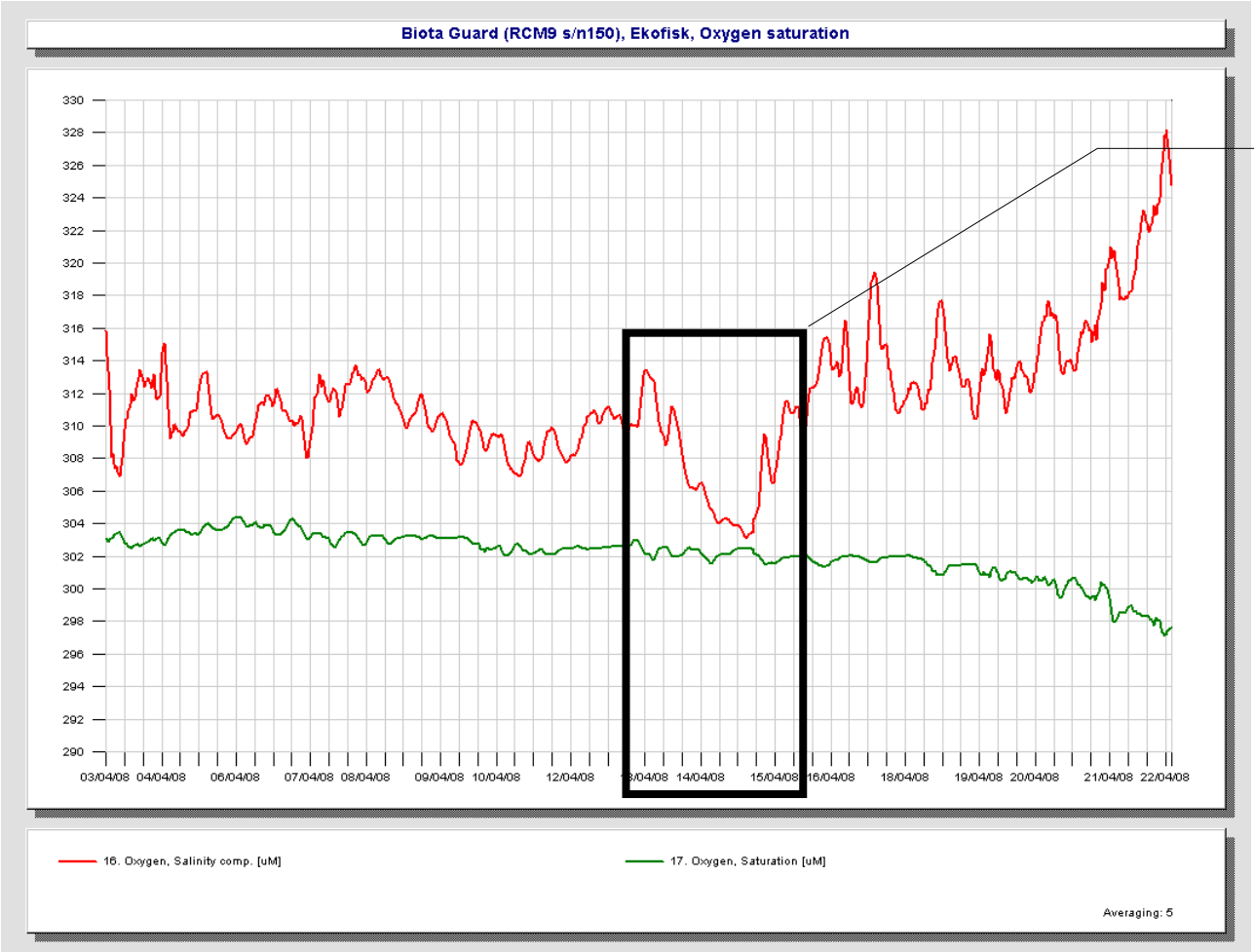
Biota Guard measures and monitors the quality of the water by use of chemical, physical and biological methods. Data is transferred and presented to the user in real time. One of these methods involves the utilization of instrumental mussels.





Biological sensors
(instrumented organisms)

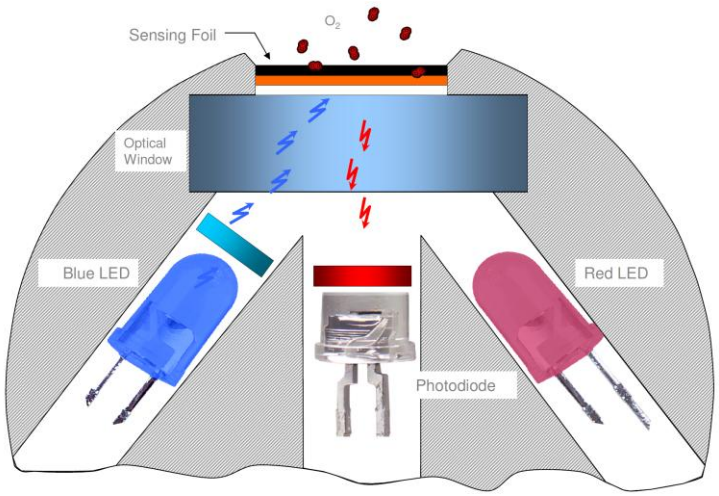
AADI DO Optodes
Example of spill detection



A two day drop in O2 at the same time as all mussels closed and heart rate changed. It was later discovered that there had been a small leak from one of the platforms. Combing classical and biosensor gives good possibilities to detect small spills.

AADI DO Optodes
Effect of crude oil on sensing foil

- Since the optical measurement principle is not dependent on the diffusion rate of oxygen, the sensor will operate even when fouled by oil.
- The fouling might however effect the response time and calibration
- Organic solvents may cause swelling of the polymer in the foil
- Swelling causes increase in sensor readings



AADI
Oil spill response products

AIS Oil Drifter Buoy

- **Marking/ Tracking Oil Spill**
- **Marking/ Tracking man over board**

Oil Boom Doppler Log

- **Directly measures oil boom speed through water**
- **Optimize boom speed through water for maximum oil recovery**