



Koninklijk Nederlands Instituut voor Onderzoek der Zee



# NIOZ Texel + Yerseke

- Geologie
- Biologie
- Chemie
- Oceanografie
- Diepzeetechniek



## Walther Lenting



# NIOZ

## Twée vestigingen

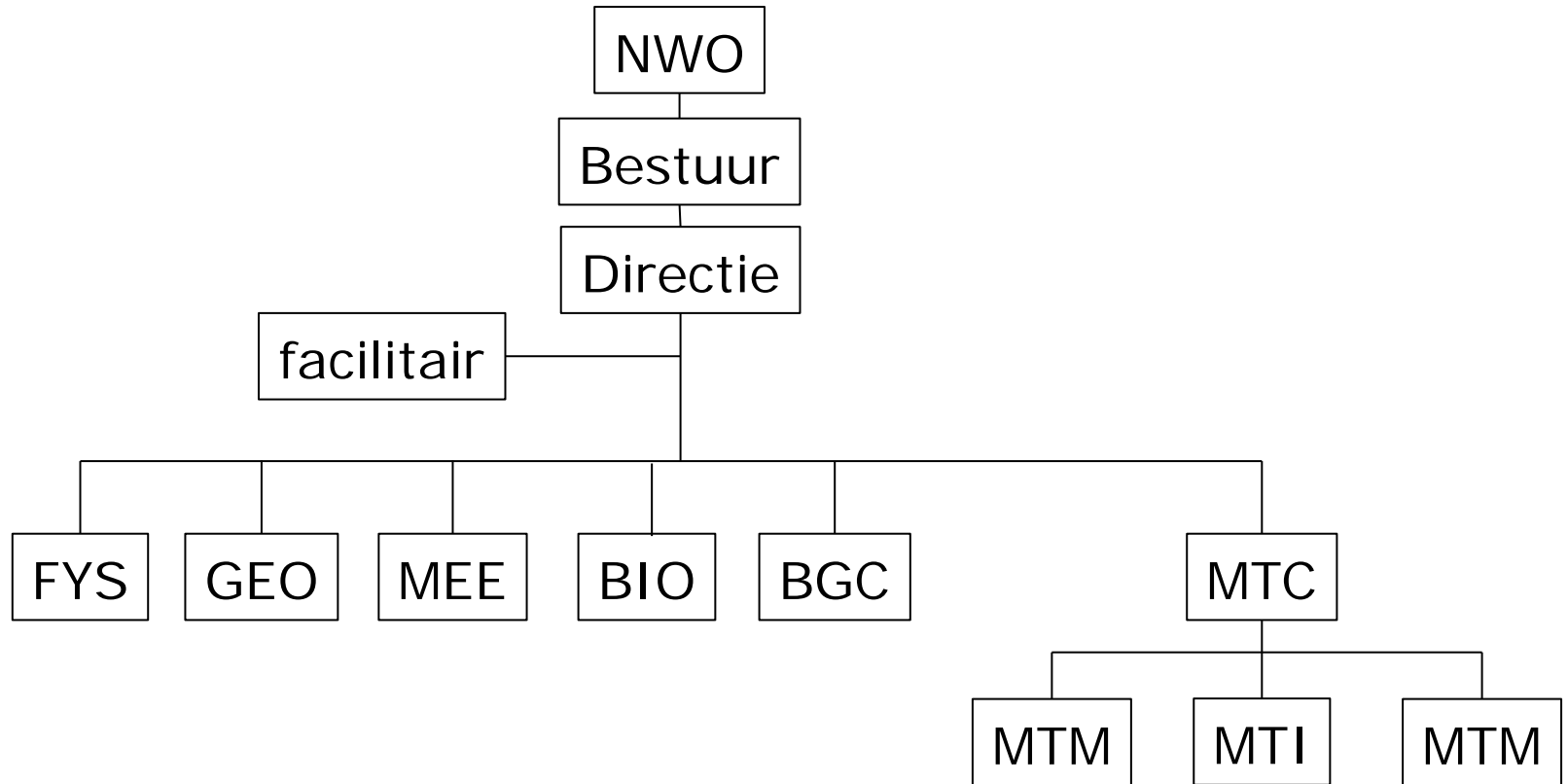






# NIOZ

## Onderzoeksinstituut





# Onderzoeksproces

Formuleren onderzoeks(deel)vraagstuk

→

Verzamelen materiaal

→

ordenen en onderzoek ter plekke indien nodig

→

Uitgebreide analyse in de labs

→

Wetenschappelijke duiding

→

Kennis verspreiden, publiceren



## Opdracht:

- Zichtbaar maken van het delen van het (onderzoeks)proces en proceskennis met bedrijfsleven
- Zoeken naar geschikte partners



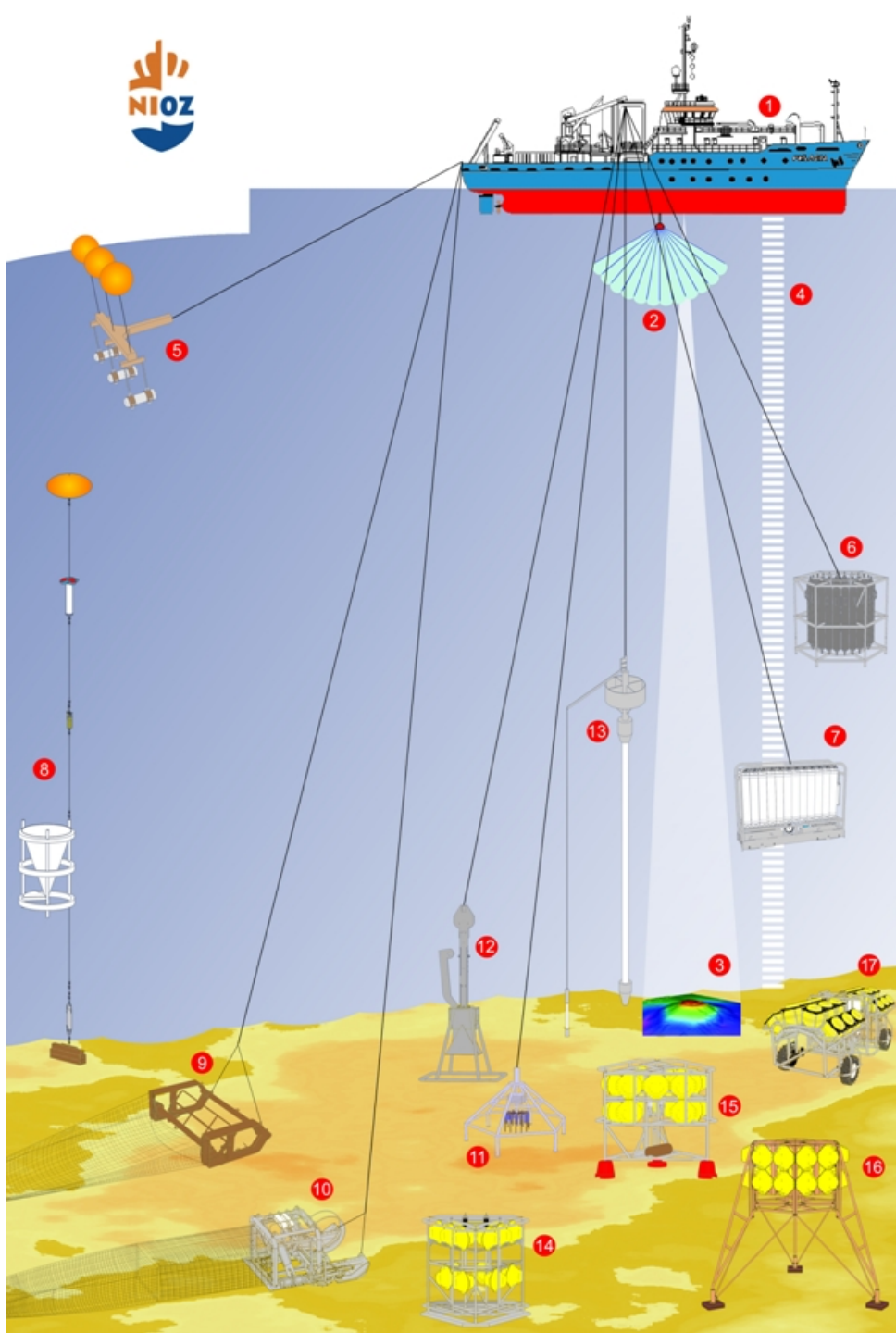
## Daartoe:

- Speerpunten en deelgebieden formuleren
  - Actuele onderzoeksgebieden
  - nieuwe technieken



## Hot items

- Diepzee onderzoek en ontginning (>6000m)
- Algen en wierenkweek
- Onderwatergolven
- Glasvezeltoepassingen
- Autonome meetopstellingen

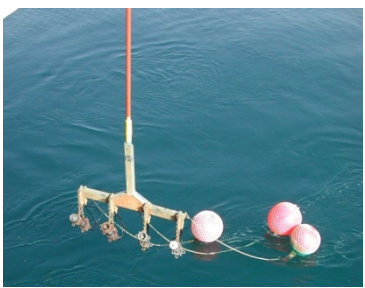


## Legend

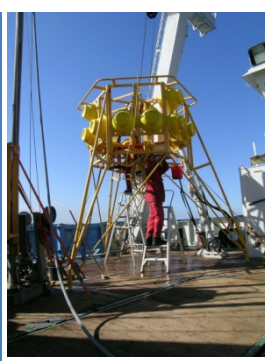
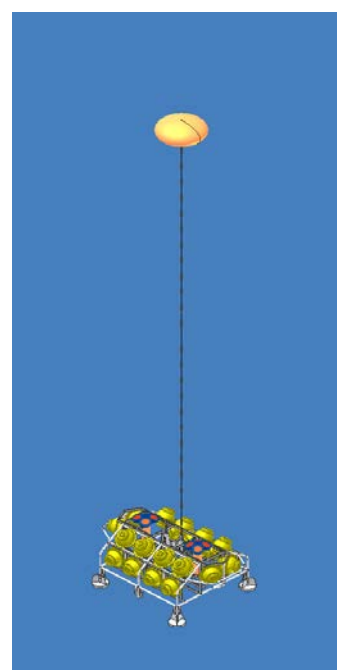
- 1 R/V Pelagia
- 2 Hipap 100 USBL acoustic direction finder
- 3 Kongsberg EM-302 Multibeam Echosounder
- 4 Bottom penetrating echosounder
- 5 Seismic Array (Sleeve Guns)
- 6 CTD-Rosette frame with water samplers
- 7 Ultra-clean-CTD Frame 'Titanium' with Pristine® water samplers
- 8 Deep Sea Mooring with ADCP, current meter and Sediment Trap
- 9 Agassiz Trawl for quantitative deep-sea bottom trawling
- 10 Deep Digging Dredge (Triple-D) for sampling benthic macrofauna
- 11 Multi-Corer for multiple small samples of surface sediments
- 12 Box Corer for large samples of surface sediments
- 13 Piston Corer for sampling long (10-20 m) sediment cores
- 14 Altrap Bottom Lander with larvae collector



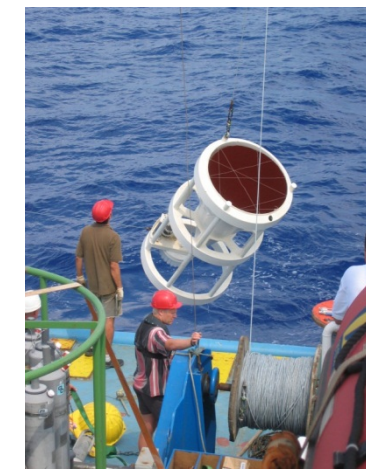
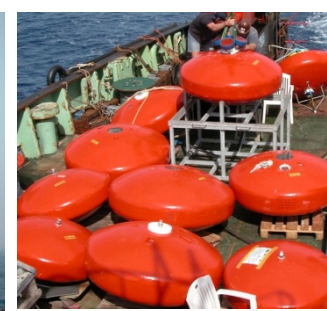
## Bodem samplers



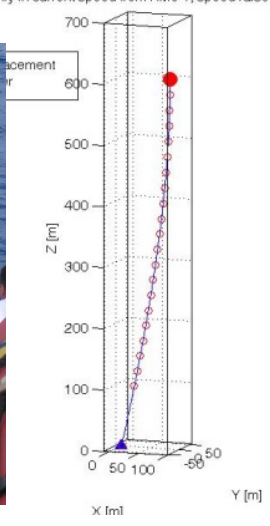
## Bodemlanders



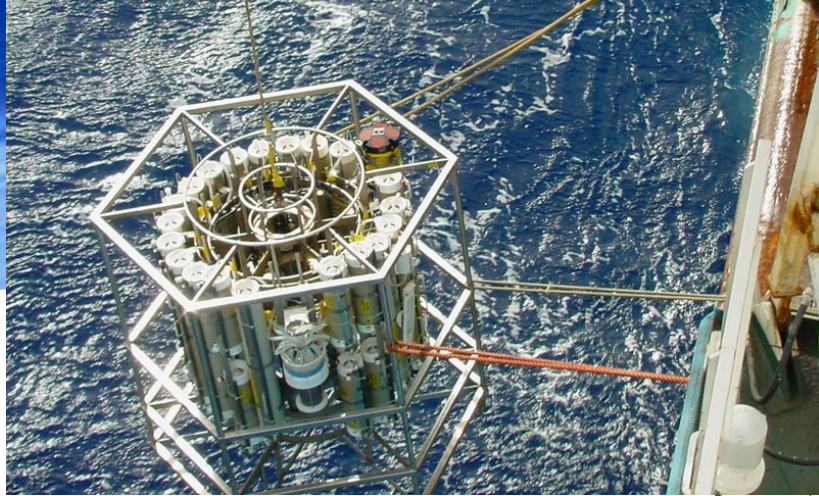
## verankeringen



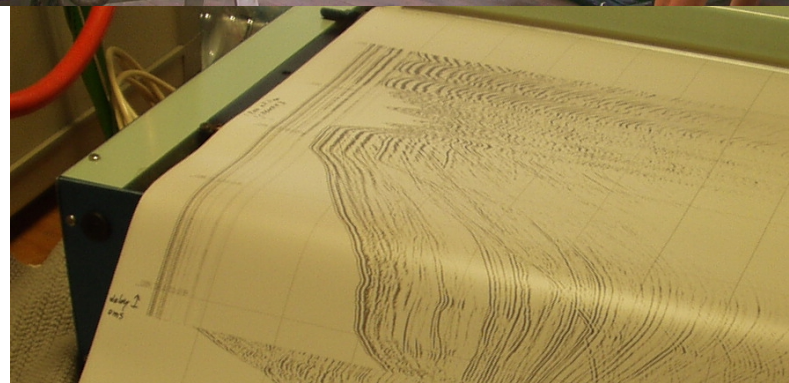
KM3-2, differs only in current speed from KM3-1, speed raise



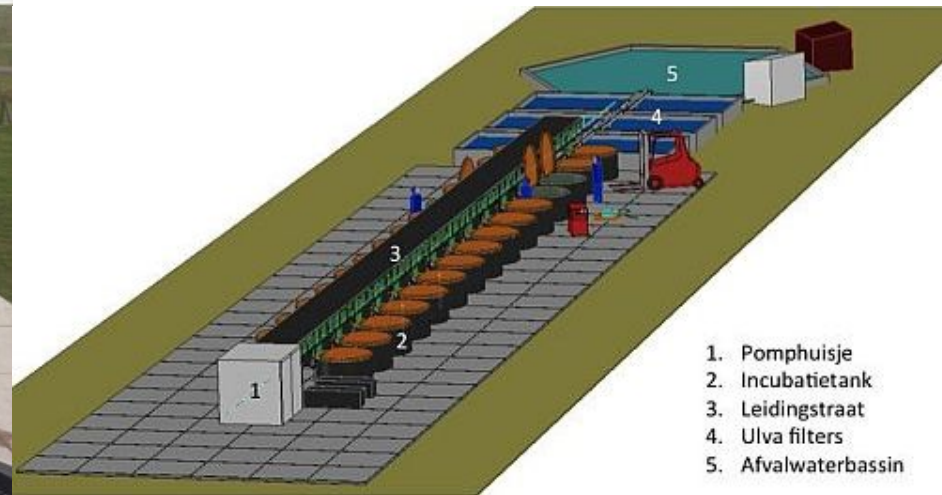




  
**NETHERLANDS DEEP SEA  
SCIENCE & TECHNOLOGY CENTRE**

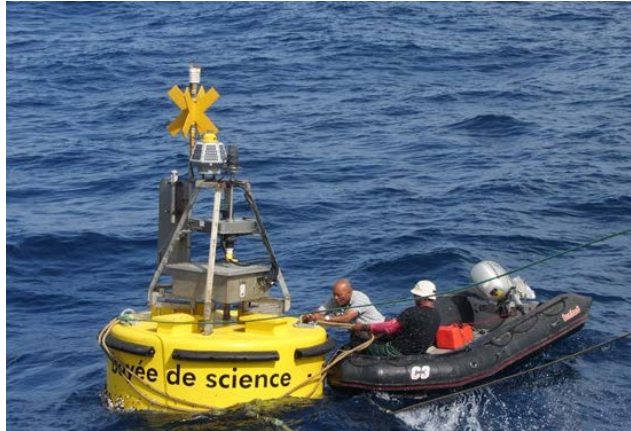








# stofboeien

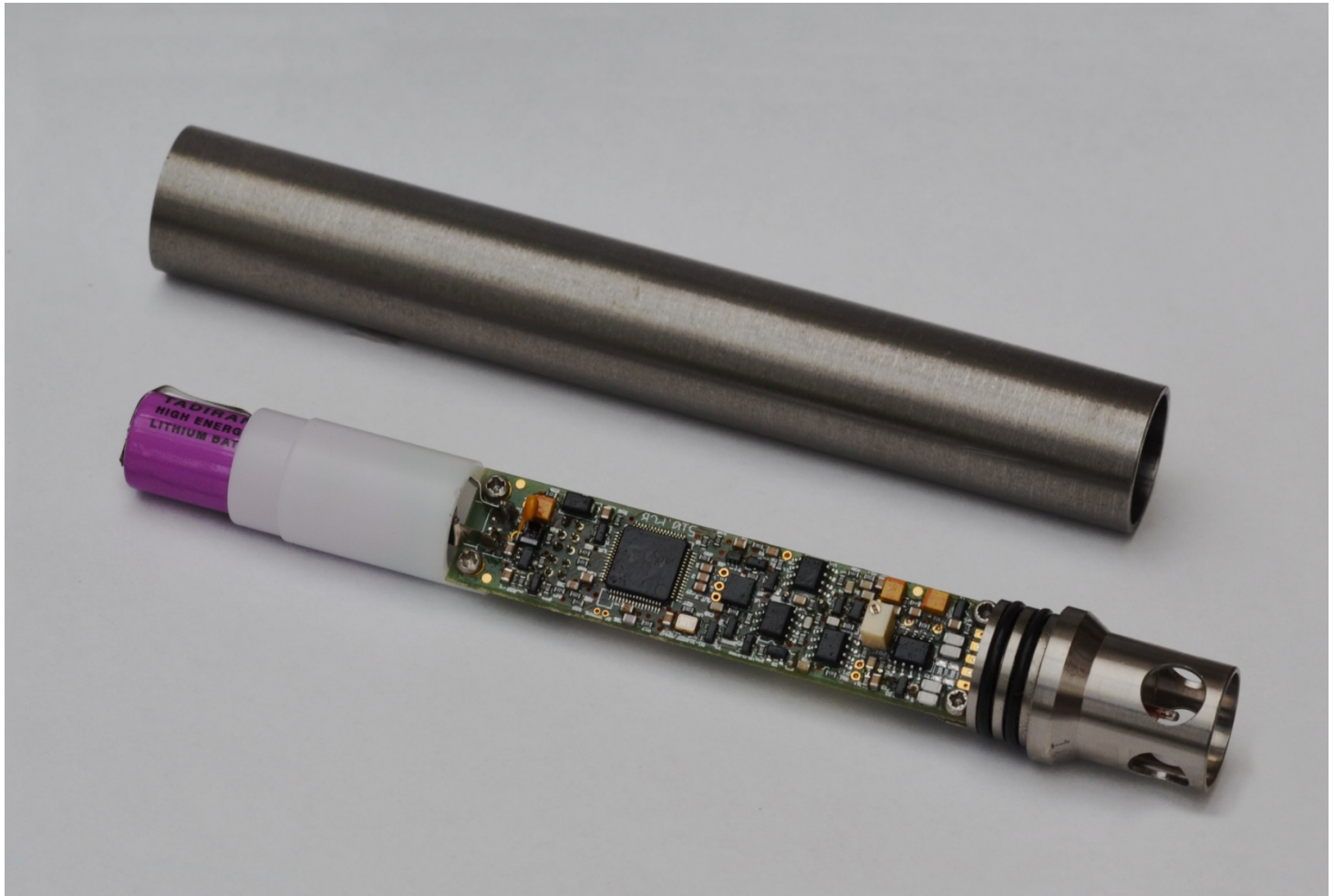


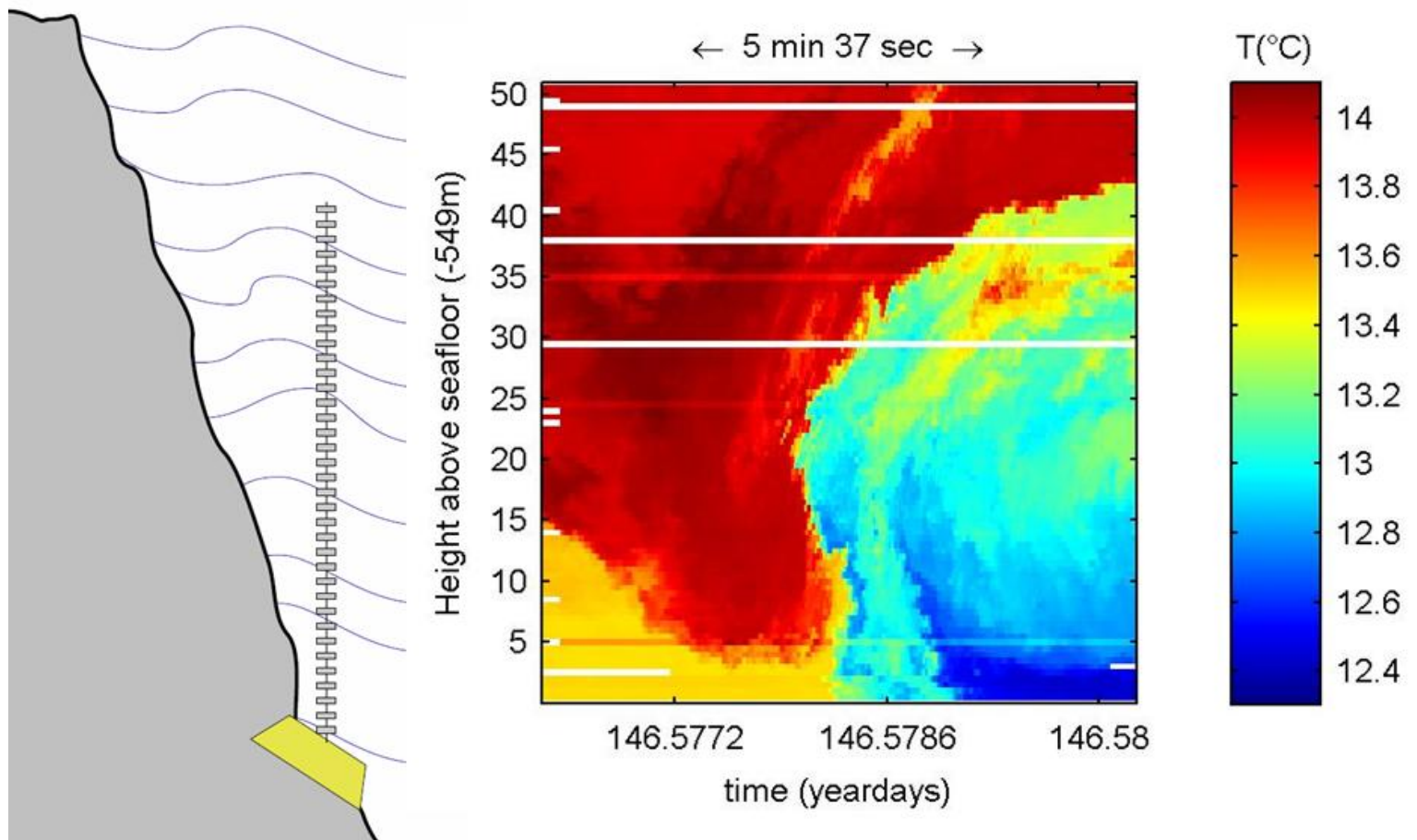




# Sensorontwikkeling NIOZ

## thermistorstring



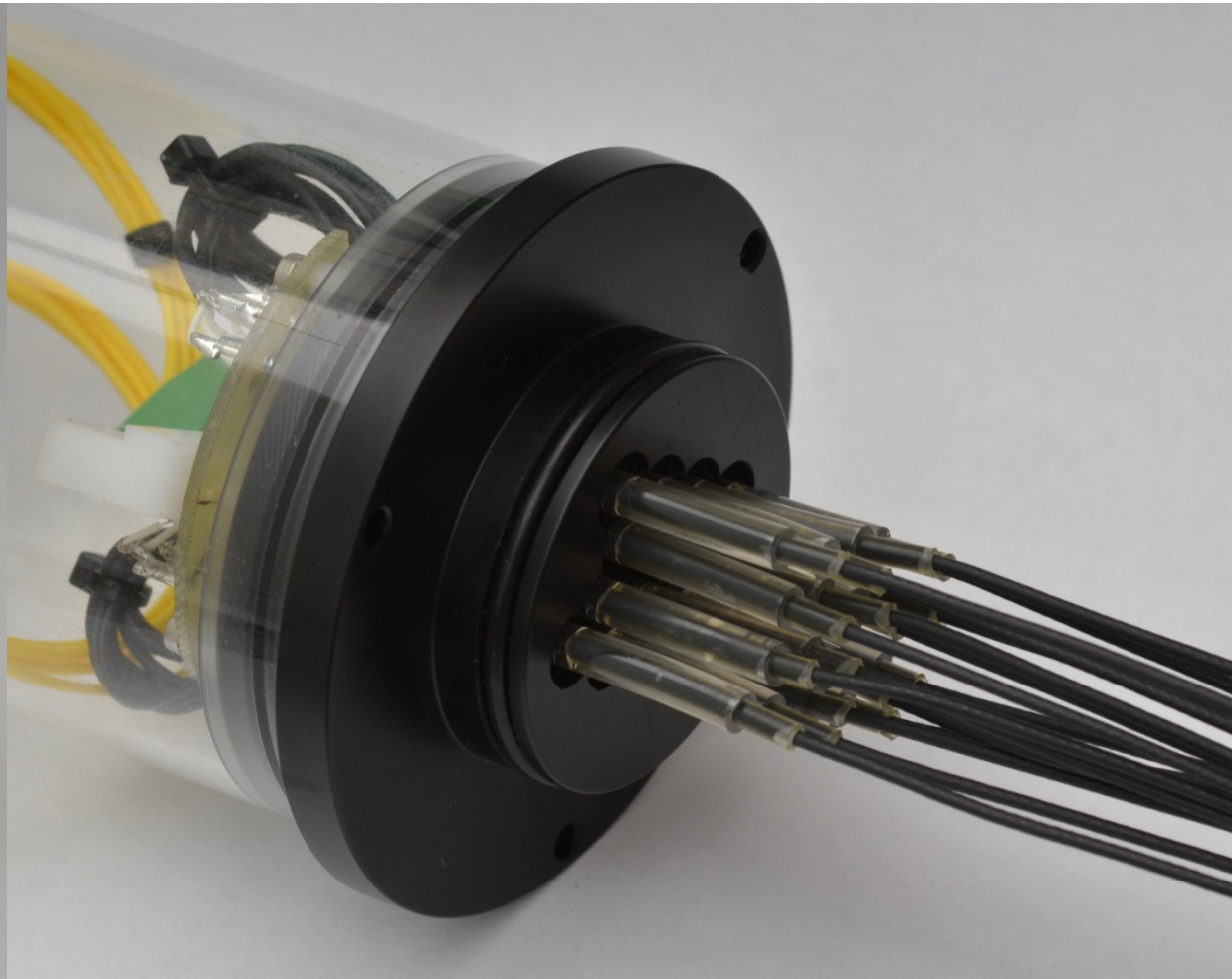






# Sensorontwikkeling NIOZ

## klepstandmeter





# Sensorontwikkeling NIOZ sedimentmeter

