



AUTONOMOUS UNDERWATER VEHICLE

Available in 2024 for all scientists in the Netherlands
via NMF National Marine research Facilities pool

Specifications

- Mid depth AUV
- Depth rating:
~ 1,500 m
- Subsea scanning at a close distance
- High-resolution measurements
- Endurance up to 24h
- Wide array of sensors

Possibilities

- Physical Oceanography:
- Ocean Observatories
 - Climate Change

- Under Ice

- Marine biology:
- Fisheries research
 - Habitat mapping
 - Aquaculture

Environmental monitoring:

- Offshore wind
- Offshore oil & gas

- Sea bottom investigation/bed-forms

'Standard' sensors

- CTD pumped
- CTD non-pumped
- O2 optode
- Chlorophyll/turbidity/CDOM
- Side scan sonar
- Synthetic aperture sonar (SAS)
- Stills camera + flash
- Video camera + light

- Echo sounder
- Multi beam echo sounder

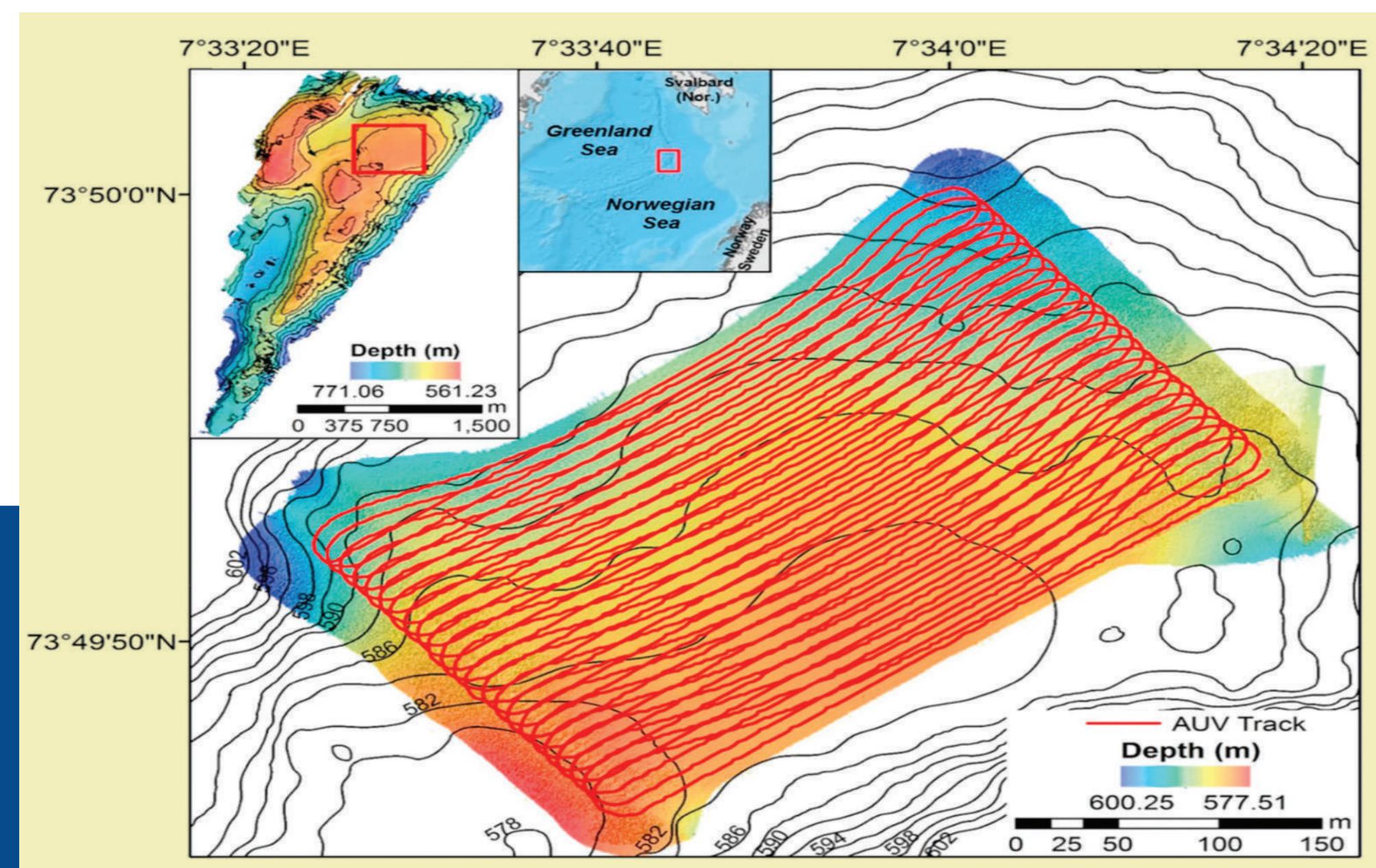
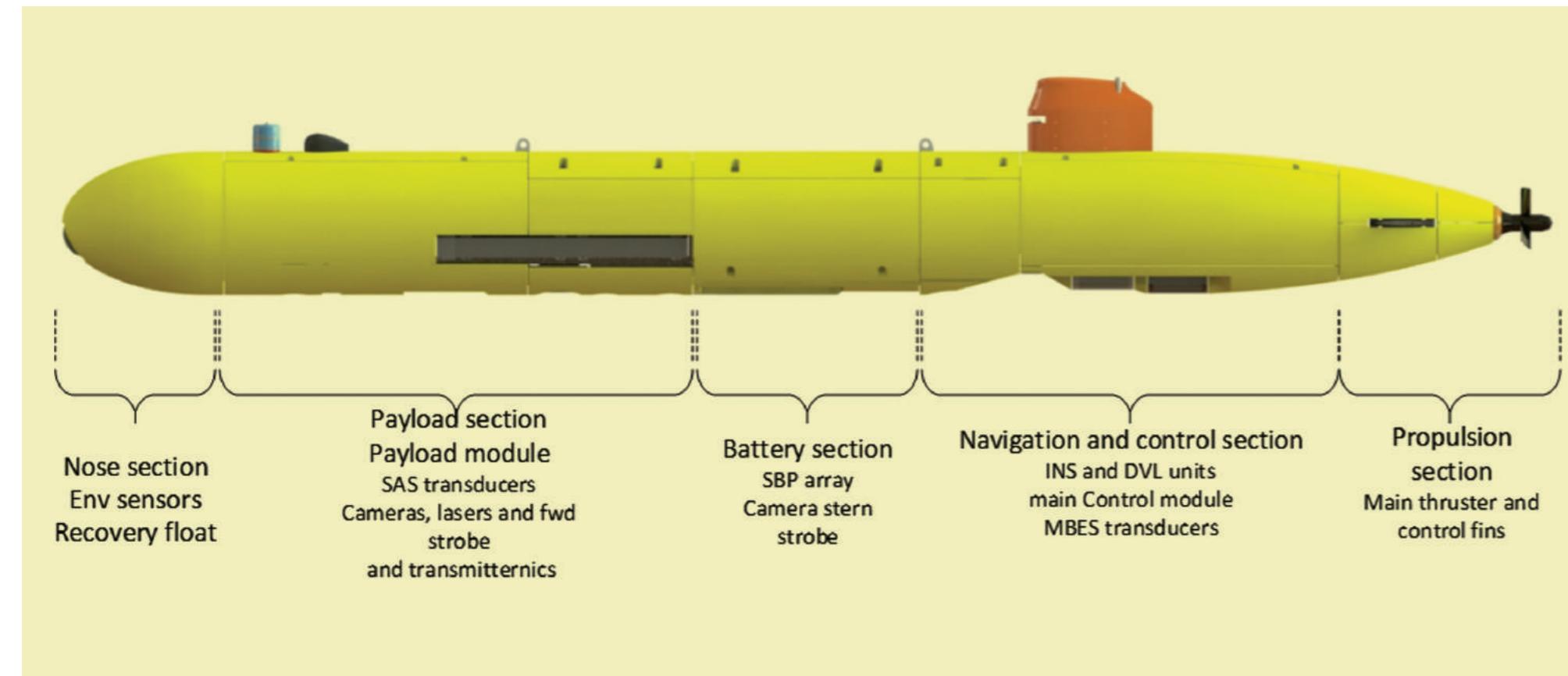
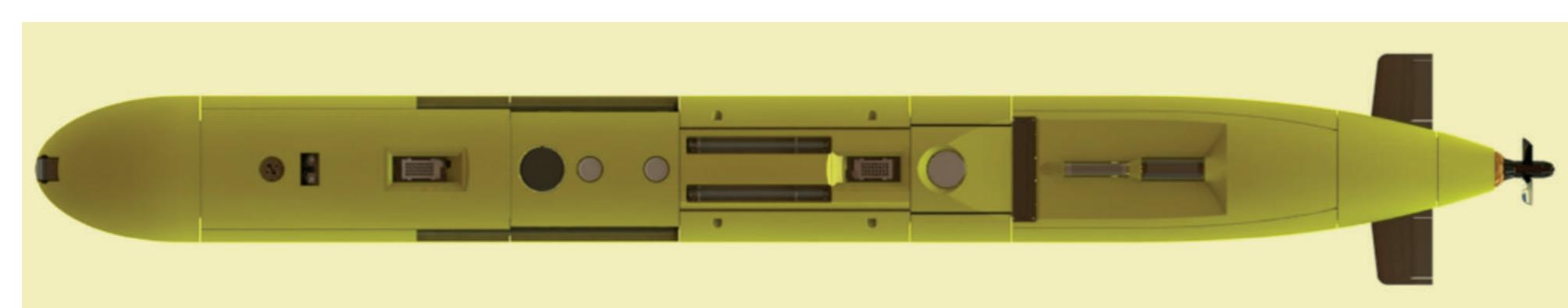
- Altimeter
- Upward looking ADCP
- Downward looking ADCP
- Nitrate
- pCO₂
- PAR

Special sensors

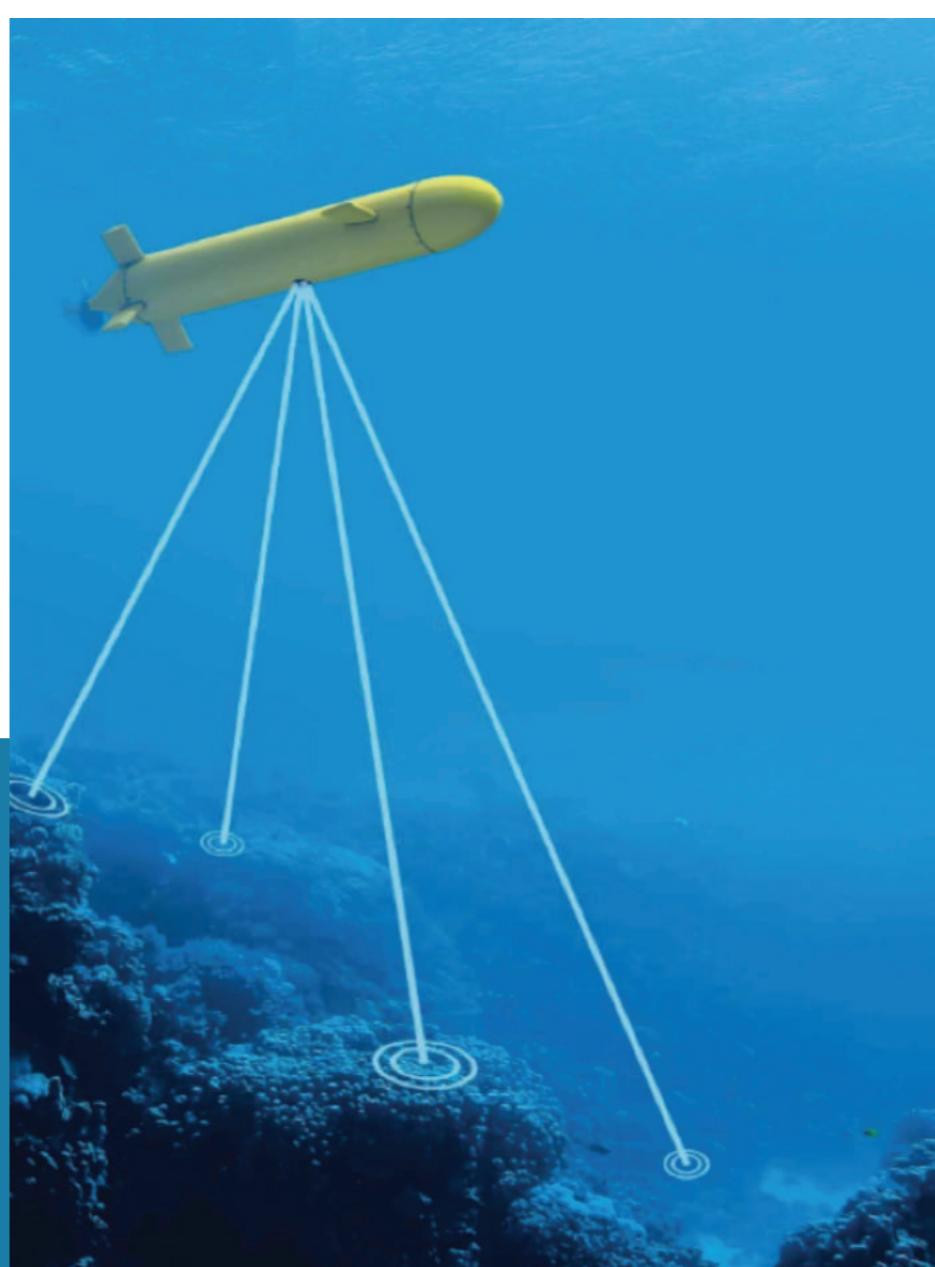
- Forward looking pencil beam sonar

- EK80 mini scientific echo sounder

- Sub bottom profiler
- Micro turbulence
- pH
- Methane
- Hydrophone
- 3D laser scanner
- Metal traces
- FRRF
- Radiometer
- Fish tag detection
- Hydrocarbons/sewage/pesticides
- And more...



Source: Meyer et al. 2019



More information, questions or ideas? Ask Marck.Smit@nioz.nl

AUV core team:
Furu Mienis, Bob Koster, Lorenz Meire, Bas Denissen, Leon Wuis, Yetzo de Hoo, Marcel van der Linden (controller), Marck Smit (project leader)

Part of the GWI-project Mobile Equipment for: RV Anna Weber-van Bosse, RV Navicula/Wim Wolff and RV Pelagia.

Co-applicants and in advisory group:
RUG, UU, UvA, Naturalis, VU, KNMI, TUD, NIKHEF, WUR, TNO en UL.