



## MODEL

USV Autonaut

## PHYSICAL DIMENSIONS

- Length:** 5 m
- Width:** ± 0.5 m
- Draught:** 1 m
- Weight:** 250 kg

## OPERATIONAL CHARACTERISTICS

- Endurance:** Multiple weeks
- Solar panels to replenish onboard batteries

## COMMUNICATIONS

- UHF Radio link
- Iridium satellite

## SCIENTIFIC PAYLOAD

- CTD:** Seabird Fastcat
- Chlorophyll A, turbidity, organic matter:** Wetlabs Ecopuck
- Oxygen:** Aandera 4831
- Forward and Aft facing cameras
- ADCP:** Teledyne RDI Workhorse 600 kHz
- Acoustic receiver:** Vemco V2RC mini
- Wave motion sensor:** Aanderaa MOTUS
- Hydrophone:** Seiche MicroPAM
- VeGAS CO2 sensor** - Sensor for measuring CO2 fluxes between ocean and atmosphere

- 1 — Platform Control (PCS)
- 2 — Power Generation Controller (PGC)
- 3 — Batteries
- 4 — Mast
- 5 — Payload (PYL)
- 6 — POD Enclosure (PDE)



a) USV Adhemar maps North Sea soundscape with the support of RV Simon Stevin. b) USV Adhemar near the Belgian coast in Oostende