



MODEL

USV Autonaut

PHYSICAL DIMENSIONS

- **Length:** 5 m
- **Width:** 1 m
- **Draught:** 1.35 m
- **Weight:** 250 kg

OPERATIONAL CHARACTERISTICS

- **Endurance:** Multiple weeks
- Solar panels to replenish onboard batteries
- **Max speed:** 3 kts
- **Propulsion:**
 - **Primary:** Wave propulsion
 - **Redundant:** Torqeedo Ultralight 403 AC

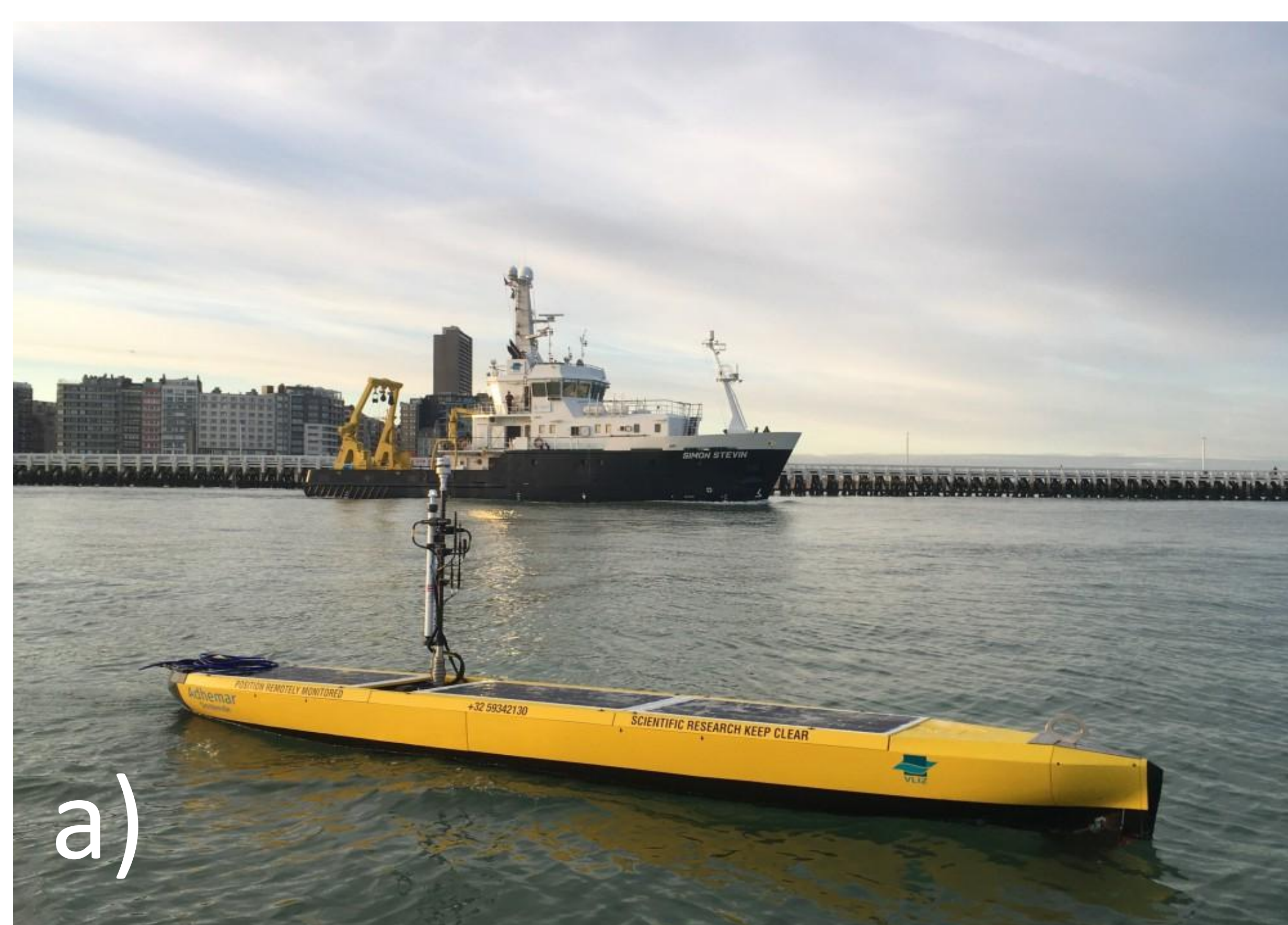
COMMUNICATIONS

- 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 (optional)
- **pCO2 sensor** - Sensor for measuring CO2 fluxes between ocean and atmosphere (optional)
- **Weather station:** Arimar Weather Station 120WX

- 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