The Sailbuoy

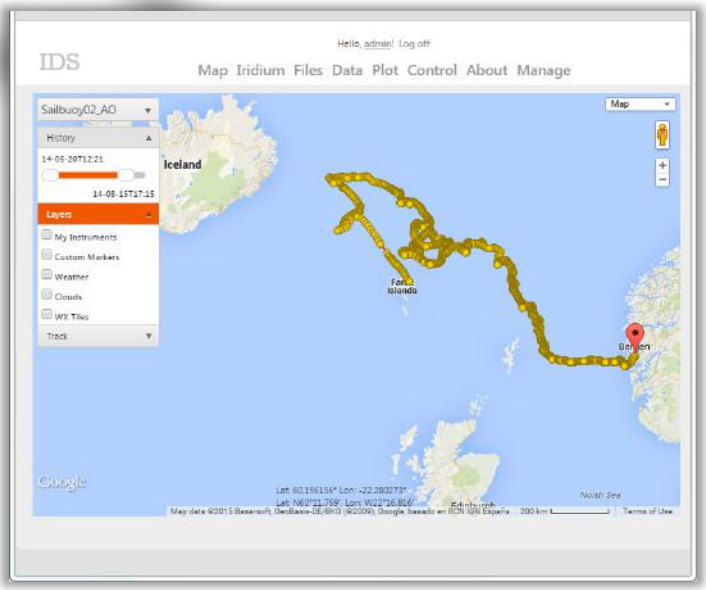
The Sailbuoy is a long duration unmanned surface vehicle designed to support a wide variety of instrumentation payloads. It can keep station or follow a track. Data is transmitted to and from shore in real time via satellite.

Key Features

- Extreme range and endurance
- Robust, collision tested
- Performance in very high sea states (9+)
- Navigation in high latitudes and low light conditions
- Low operational costs
- Autonomous operation, minimal user interaction
- Real-time data
- Lightweight (60 kg – easily handled by two people)
- User friendly (both deployment/retrieval and control)
- Low visual/acoustic/electrical/radar signature
- HSE friendly

Applications

- Meteorological and oceanographic data
- Fish finding
- Subsea gateway, data relay
- Water quality surveys
- Oil spill detection
- Wave measurement
- Echosounder surveys



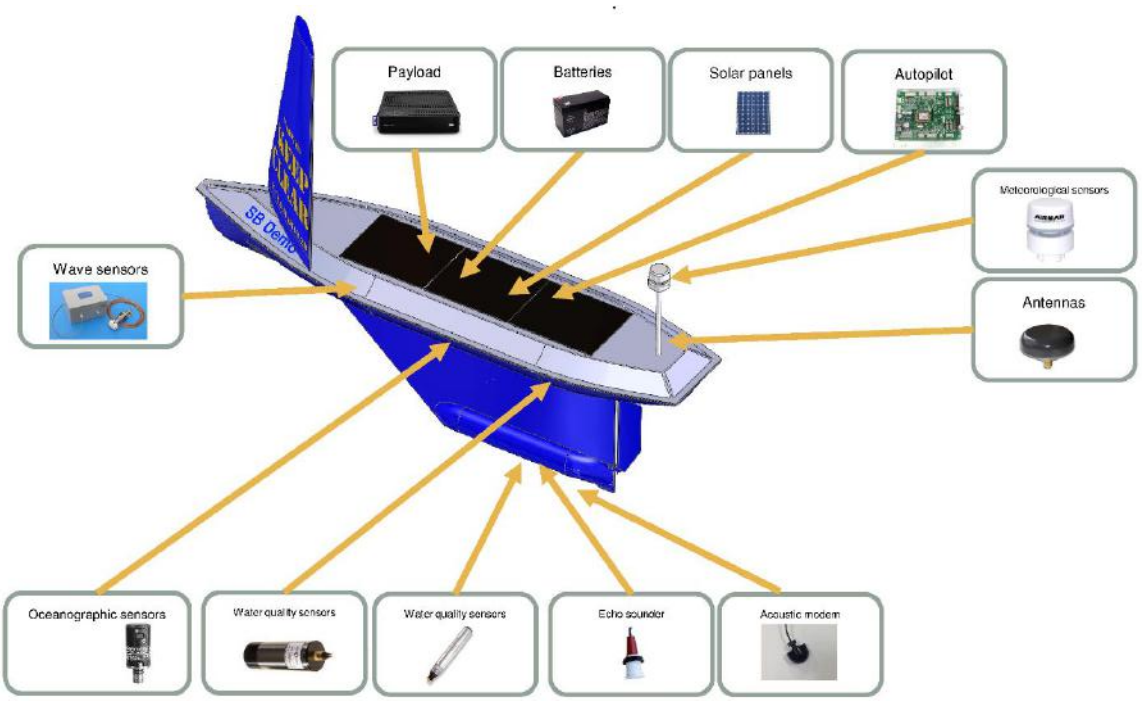
Sensor integrations

- Aandera optode
- Aandera conductivity sensor
- Nbosi conductivity sensor
- Simrad WBT echosounder
- Evologics acoustic modem
- Airmar weather station
- Wetlabs chlorophyll
- Turner C3 (turbidity, crude and refined oil)
- Datawell wave sensor

Offshore sensing AS is dedicated to the production, design and sales of the Sailbuoy. Offshore Sensing AS is based in Bergen, Norway
Contact info@sailbuoy.no or visit Offshore Sensing AS, Fantoftvegen 38, 5072 Bergen, Norway

Offshore Sensing AS

11-2018



Technical Specifications

Physical	
Length (LOA)	2 m
Beam	0.52 m
Height	1.13 m
Draft	0.57 m
Sail Area	0.4 m^2 / 0.6 m^2
Displacement	60 kg
Payload	10 kg
Propulsion	Wind

Operation	
Operational duration	Several months
Speed	1-3 knots
Navigable wind speed	3-30 m/s
Navigable wave height	15+ m
Control	Cloud serviced web server for data and piloting

Communication	
Autopilot Communication	Iridium SBD
Payload Communication	Iridium