The Sailbuoy
Autonomous Surface Vehicle
Offshore Sensing was established in 2014 as a spinoff from Christian Michelsen research which is the majority shareholder. The Sailbuoy technology was developed at CMR since 2005 and is now commercialised, available through Offshore Sensing.
The Sailbuoy

The Sailbuoy is an long endurance unmanned surface vehicle designed to support a wide variety of instrumentation payloads.
Technical data

- Length: 2m
- Displacement: 60 kg
- Payload: 10 kg
- Speed: 1-3 knots
- Tested to 30 m/s wind
- On-board autopilot and data logger.
- Mission duration: 6 months
- Satellite communication
- 30W solar panels
Sensors and Payload

- Oceanographic sensors
- Water quality sensors
- Water quality sensors
- Echo sounder
- Acoustic modem
- Payload
- Batteries
- Solar panels
- Autopilot
- Wave sensors
- Meteorological sensors
- Antennas
Testing

- Unknown test criteria
- Testing in real environment (offshore testing)
- Handle the unexpected
- Performance depending on environment (criteria)
- Fail acceptance conditions
- Fail investigations
Crash test
Drop test
SB Wave deployment 2017
SB Wave transat 2017
Recovery Horta (Azores)
Deployment Newfoundland
SB Met Transat crossing 2018
TV2 repotasje
Transat crossing speed
Transatlantic crossing record

Start: June 7, 2018
Finish: Aug 26, 2018

80 days, 3000 km distance
5100 km sailed
Media

Potensiell Rekkevidde

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SB Met
Antarctic 19 aug 2019
Selected Missions

North sea 3 weeks 2009
North sea 4 weeks 2011
Canaries 3 weeks 2012
Gulf of Mexico 8 weeks 2013
Spitsbergen 1 week 2013

North sea 4 weeks 2014
German Bight 1 week 2015
North sea 3 weeks 2015
North sea 8 weeks 2016
North sea 4 weeks 2016

Atlantic 9 weeks 2017
Vestfjorden 5 weeks 2017
Lofoten 5 months 2018
Atlantic 4 months 2018
Antarctic 2.5 months 2019
Thank you

www.sailbuoy.no