

# The Sailbuoy

Autonomous Surface Vehicle



# Offshore Sensing AS

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.



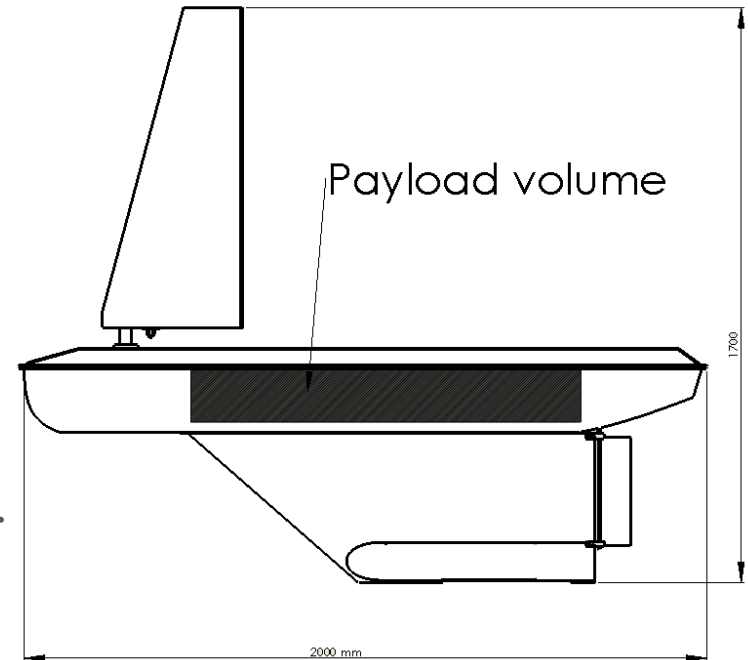
# The Sailbuoy

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

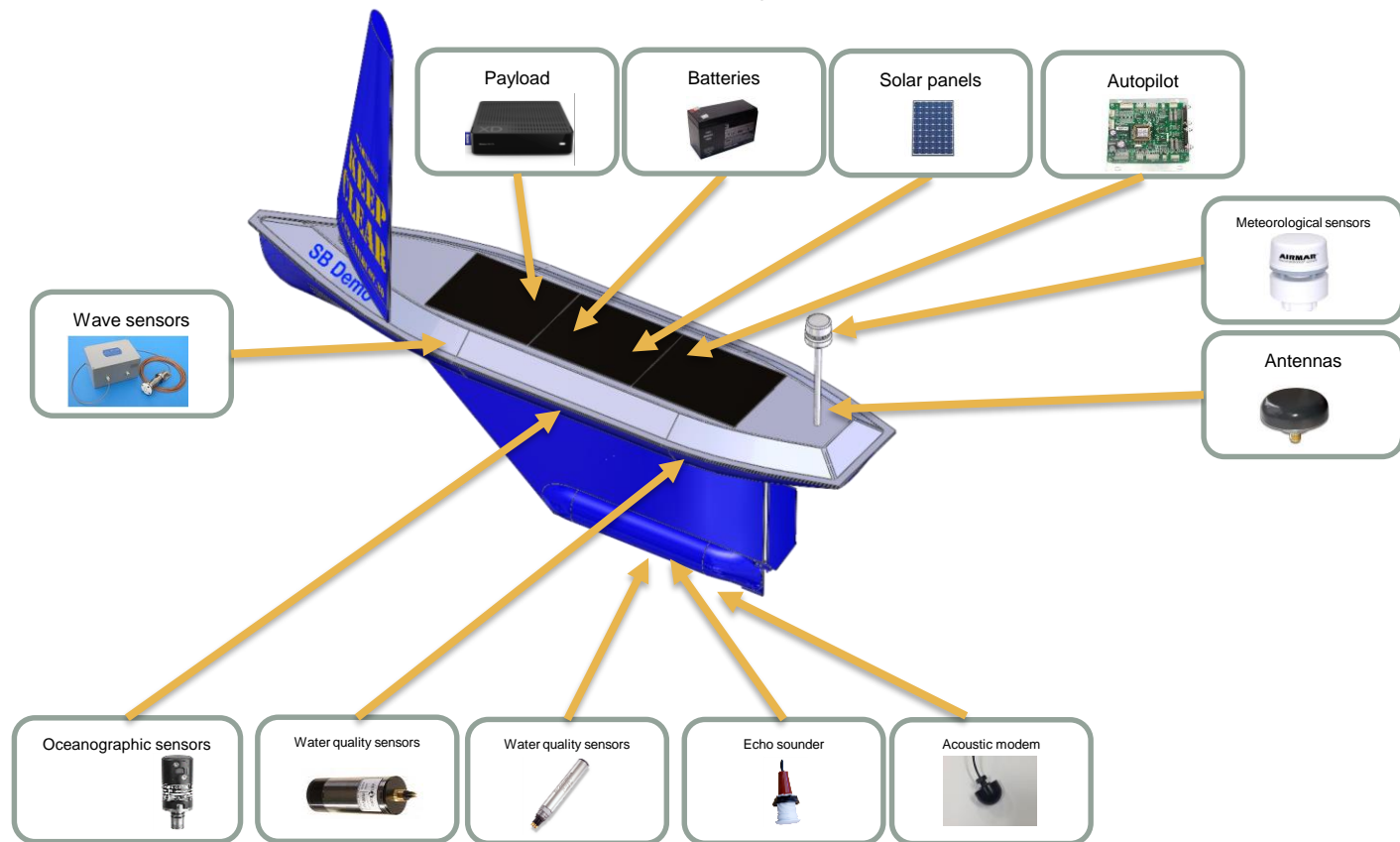


# Technical data

- 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



# 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

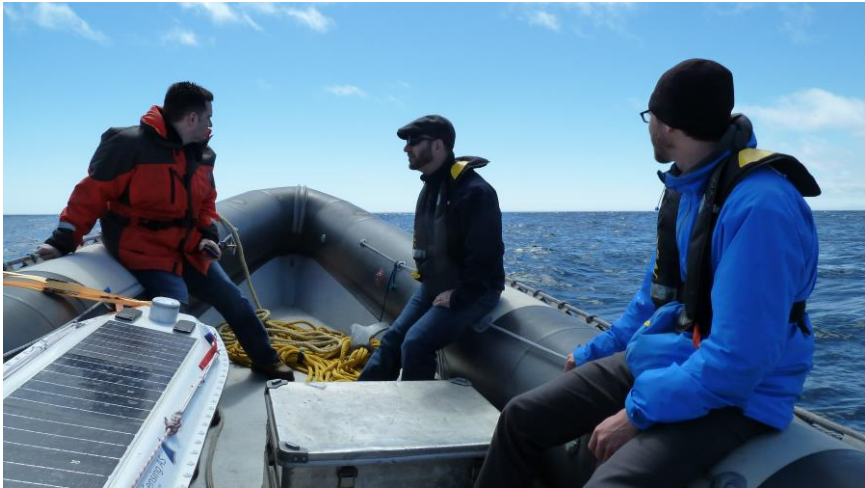




# SB Wave



# SB Wave deployment 2017





# SB Wave transat 2017



# Recovery Horta (Azores)



# SB Met



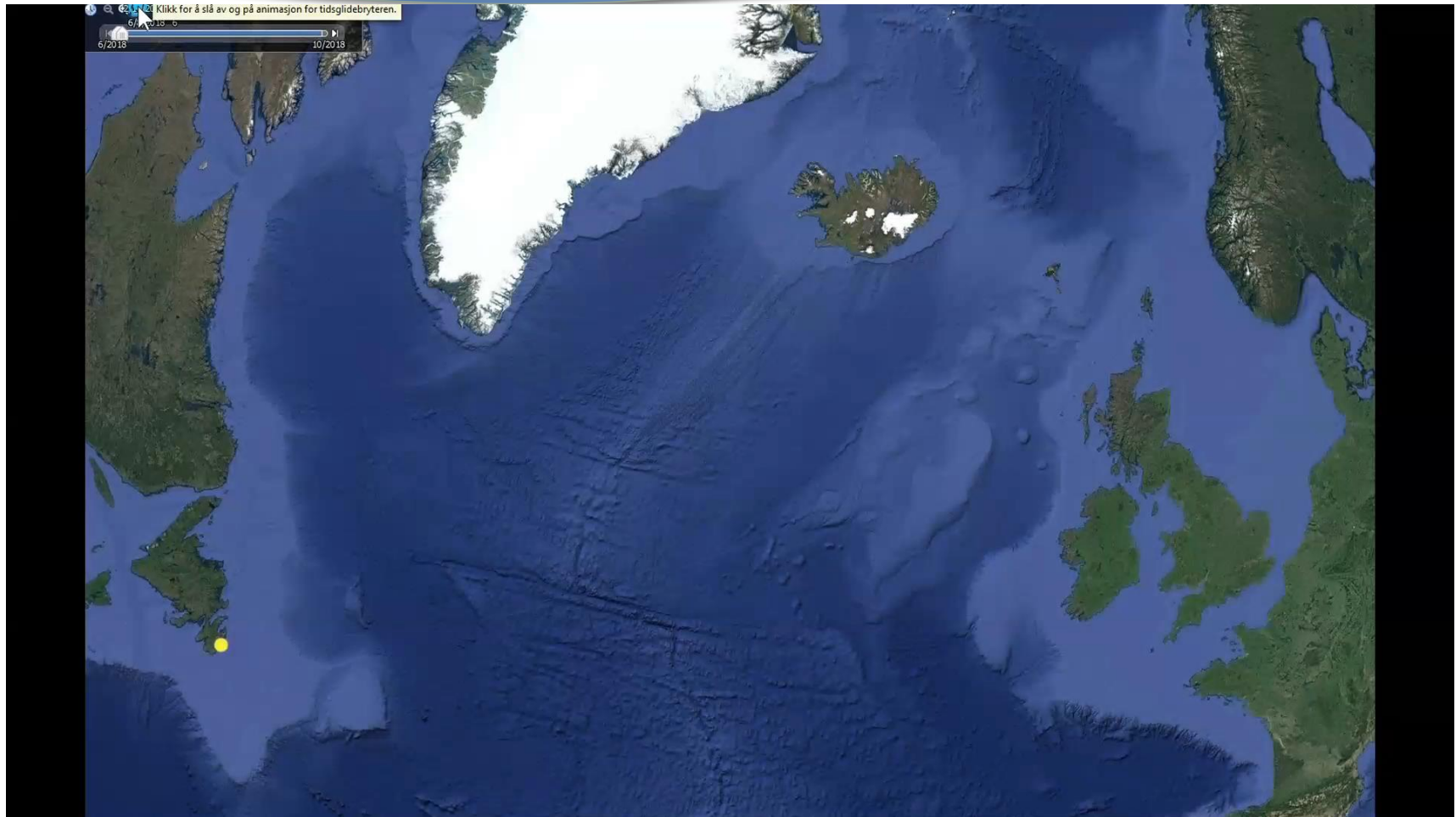


# Deployment Newfoundland





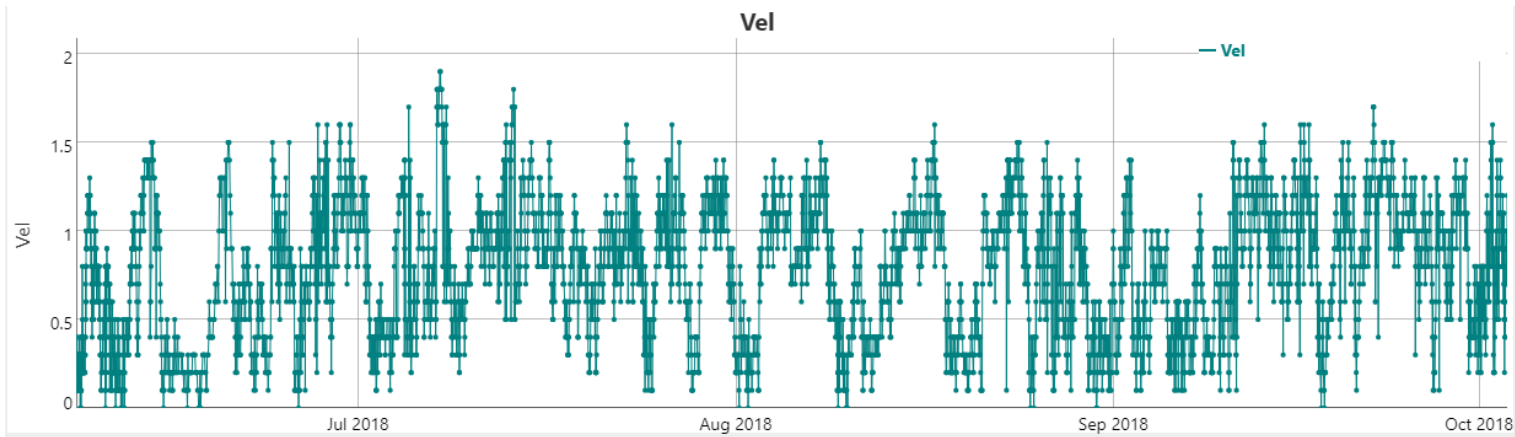
# SB Met Transat crossing 2018



# TV2 repotasje

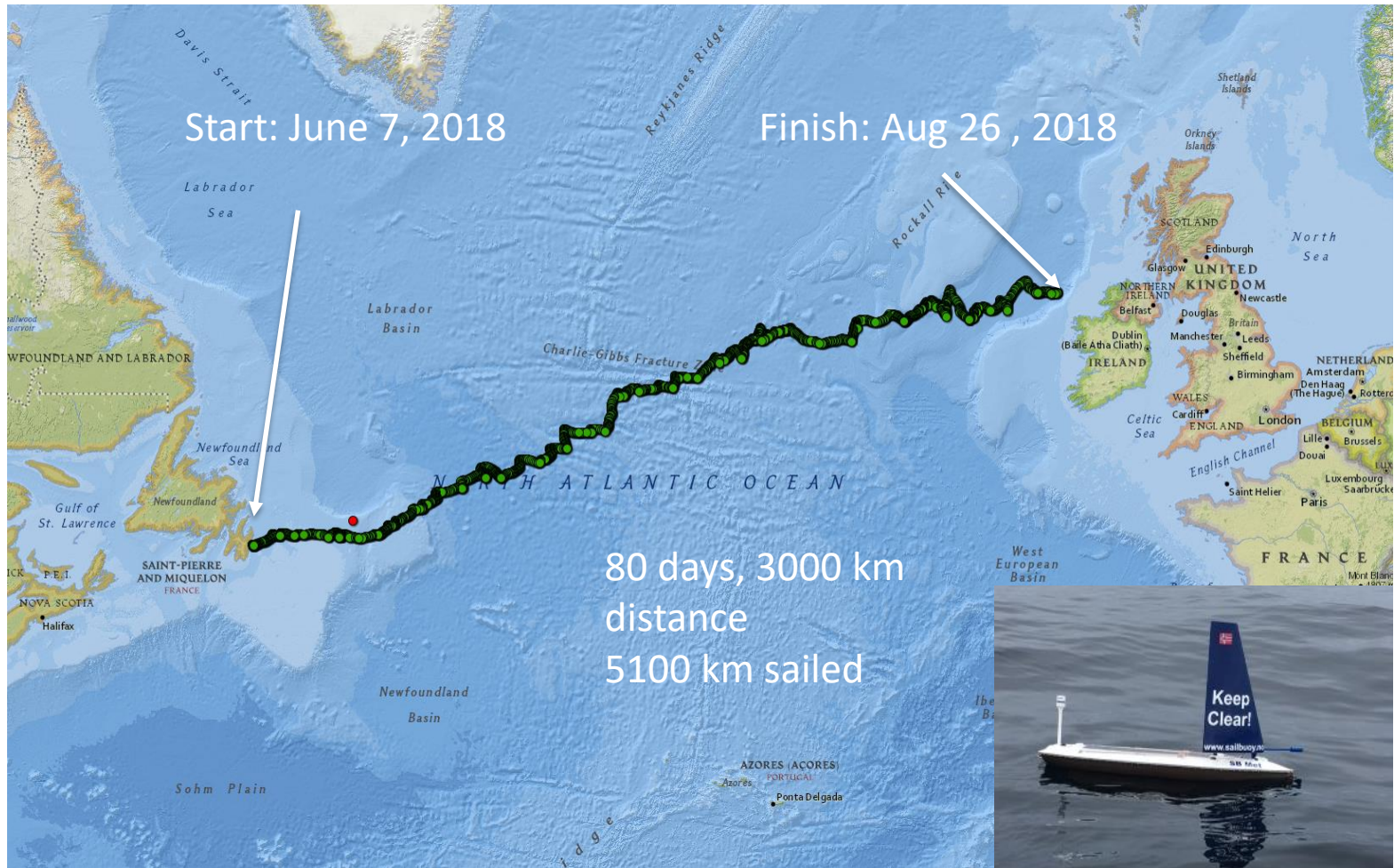


# Transat crossing speed



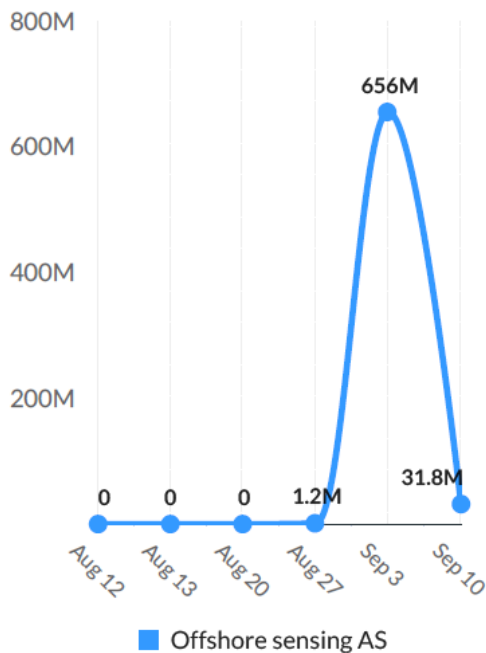


# Transatlantic crossing record



# Media

## Potensiell Rekkevidde



1. [apnews.com](http://apnews.com)
2. [apnews.com spanish](http://apnews.com/spanish)
3. [BBC world service radio at 4](http://BBC.worldservice.radio.at)
4. [new atlas](http://newatlas.com)
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31. [triblive.com](http://triblive.com)
32. [www.fruitnet.com](http://www.fruitnet.com)
33. [sysla.no](http://sysla.no)
34. [news.cgtn.com/](http://news.cgtn.com/)
35. <https://aiomag.de/>
36. ....

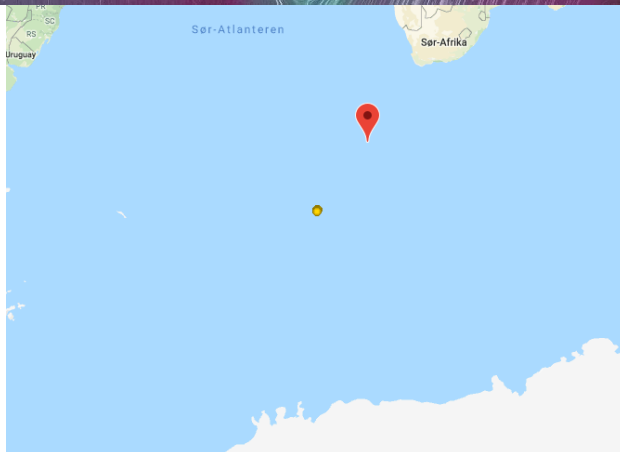
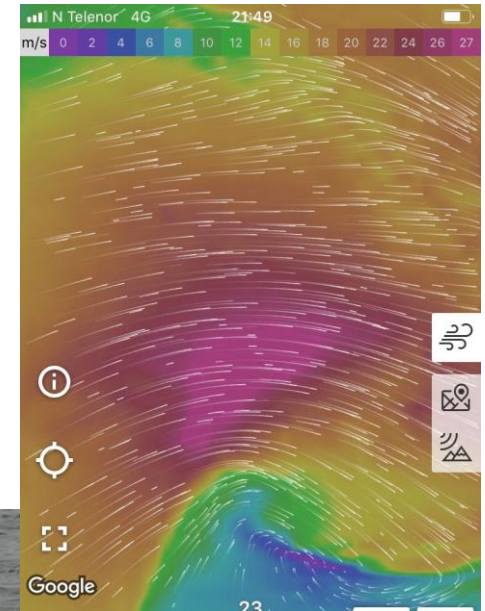
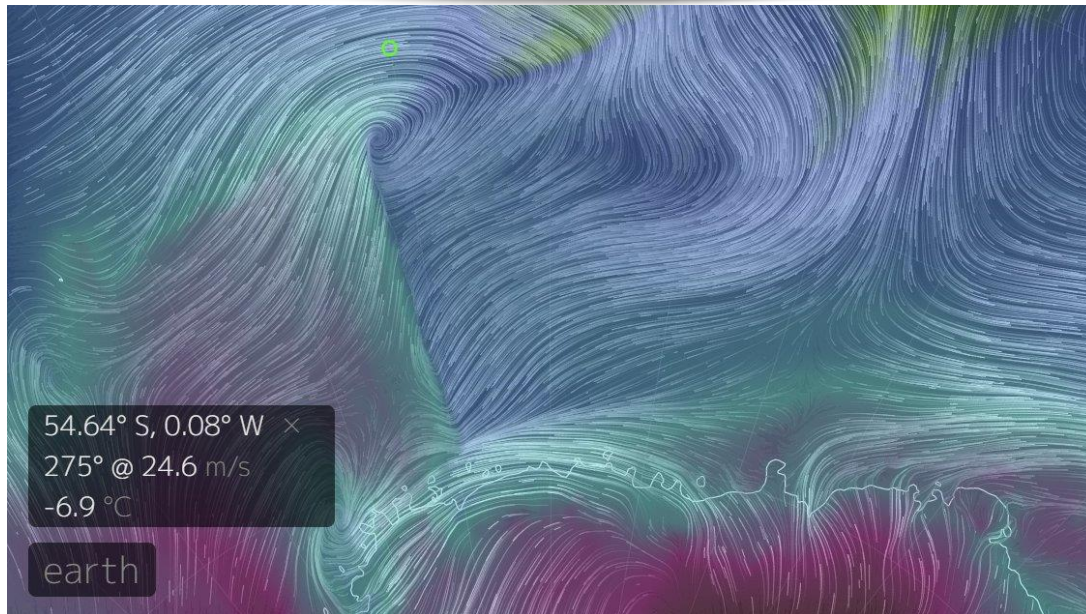


# SB Met





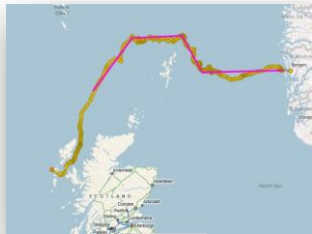
# Antarctic 19 aug 2019



# Selected Missions



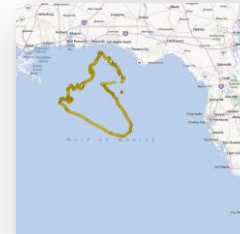
North sea 3 weeks  
2009



North sea 4 weeks  
2011



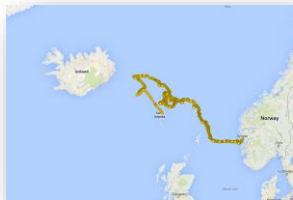
Canaries 3 weeks  
2012



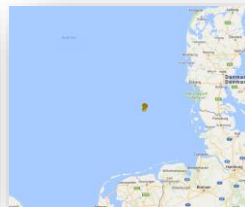
Gulf of Mexico 8 weeks  
2013



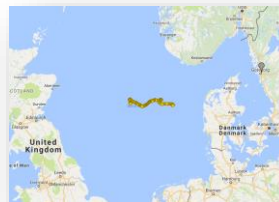
Spitsbergen 1 week  
2013



North sea 4 weeks  
2014



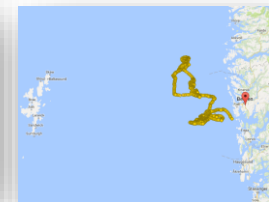
German Bight 1 week  
2015



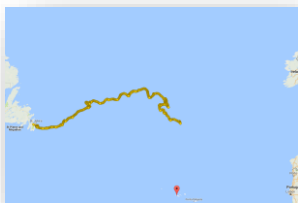
North sea 3 weeks  
2015



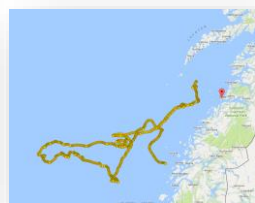
North sea 8 weeks  
2016



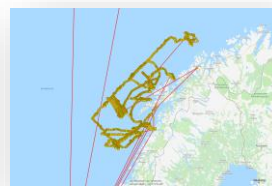
North sea 4 weeks  
2016



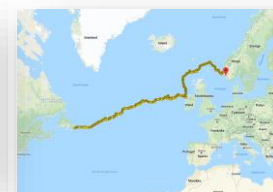
Atlantic 9 weeks  
2017



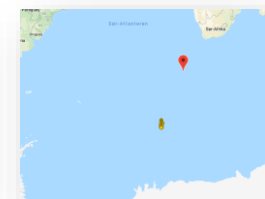
Vestfjorden 5 weeks  
2017



Lofoten 5 months  
2018



Atlantic 4 months  
2018



Antarctic 2.5  
months 2019





Thank you

[www.sailbuoy.no](http://www.sailbuoy.no)

