

Stability record for oxygen optodes

Aanderaa is partner in the OCEANSensor, which is an EU-project focused on improving and using underwater sensors in new applications. One of the goals with this project is to enhance the absolute accuracy of sensors during years of deployments selecting stable technology and introducing in-situ calibration methods.

Another goal is to use off-the-shelf instruments and sensors to measure biological/chemical/seismic activities at the sea-floor by gradients.

During cold and beautiful winter days, field work was carried out in the archipelago off the Swedish West Coast. Aanderaa Oxygen [Optodes with WTW foils](#) have been tested at the Koljoe fjord observatory for +5 years with a yearly drift of around 0.2 %, which is probably a world record in stability for oxygen measurements. The drift was verified by monthly water samples and in air measurements about twice a year at service.



[SeaGuardII](#) prepared for gradient measurements with four sensors at bottom of frame and five sensors at top plate of the instruments.

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