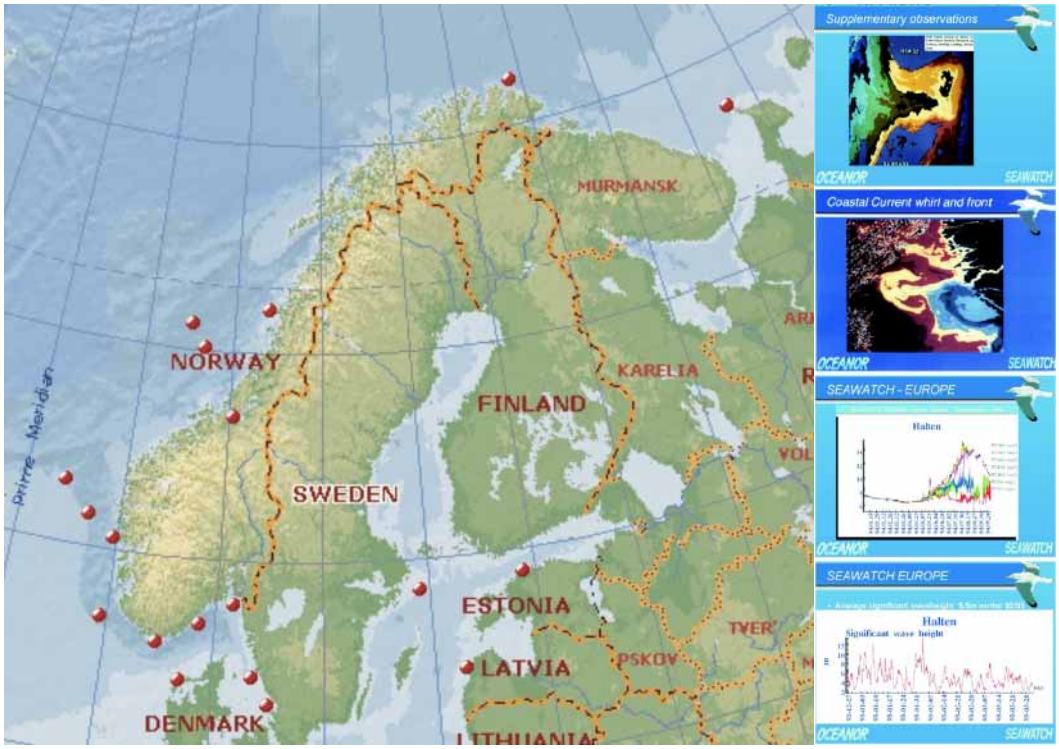
Seawatch: Norway



Norway

CLIENT:

PURPOSE:

DURATION: 1990 onwards

LOCATION:

DESCRIPTION:

SEAWATCH Norway, which is a continuation of SEAWATCH Europe in Norwegian waters, focuses on developing new technologies, special applications and sensors. One of the buoys is specifically reserved for testing new technologies and is located nearby Fugro premises. Users of the services include:

- Directorate of Fisheries and Institute of Marine Research, Bergen, for monitoring and forecasting algal blooms.
- State Food Hygiene Control Authority and shellfish growers, for monitoring toxin producing phytoplankton and toxic shellfish.
- Insurance companies and fish farms, for monitoring, forecasting, and consultancy on occurrence of harmful marine organisms, extreme temperatures, acute pollution, extreme sea state and weather conditions.
- Norwegian Clean Seas Association for Operating Companies. Use of SW buoys and SW numerical models in regular/annual offshore training in oil combat actions, location of SW buoys in alert stockpiles (AMOCO).
- Norwegian Meteorological Institute and State Pollution Control Authority, uses the oil-spill model in the national oil combat action plan.
- Statoil, Norsk Hydro, Saga (Norwegian oil companies). Implementation and service of the Oilspill model.
- Norwegian Meteorological Institute. Operational simulation of 3-D hydrodynamical model.
- Norwegian Oil Directorate and oil companies. Collecting metocean design data with use of SW buoys.
- Statoil and Norsk Hydro. Operational environmental surveillance by use of SW buoys.

Environmental data, statistics and dedicated buoys from the SEAWATCH Europe and SEAWATCH Norway projects were used by the State Pollution Control Authority to evaluate the eutrophication status in southern Norway. Also used by Fugro in specific Environment Impact Assessment projects related to oil and gas industry planning.

SEAWATCH Norway new technology development activities related to the buoy platform include a new sensor for measuring light beam attenuation, scattering and fluorescence in three wave bands, an acoustic instrument for measurement of zooplankton and juvenile fish, a detector for heavy metals, a flow cytometer for size and form characterisation of phytoplankton and a nutrient analyser. Most of these and other R&D activities are in co-operation with other research institutions.

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