

BOOS Annual Meeting 2018

Member report

Institution	Institute of Meteorology and Water Management National Research Institute, Maritime Branch in Gdynia
Country	Poland
Observations	<p>Status</p> <ul style="list-style-type: none"> ✓ 6 monitoring cruises within Polish EEZ in a frame of the Polish MSFD monitoring programme of the Baltic Sea: <ul style="list-style-type: none"> • hydrology: T, S, O₂, pH, Secchi, sea currents (ADCP); • chemistry: nutrients in seawater; POP & heavy metals in biota and sediment; • biology: chlorophyll <i>a</i>, phytoplankton, zooplankton, zoobenthos, phytobenthos; • radioactivity in sea water (as a part of MORS – Monitoring of Radioactive Substances); • marine meteorology. ✓ Monitoring of: <ul style="list-style-type: none"> • Underwater noise; • Beach litter; • Biological effects; • Hydromorphology. ✓ Real time coastal measurements of the sea temperature and sea level. ✓ Measurements of water salinity at coastal stations. ✓ a FerryBox system (automatic measurements: temperature, salinity, oxygen, chlorophyll <i>a</i> fluorescence; laboratory: nutrients, chlorophyll <i>a</i>, phytoplankton species composition; ✓ Wave and currents measurement near oil rig using bottom mounted AWAC. ✓ Meteorological measurements at three buoys with on line data transfer. <p>Plans</p> <ul style="list-style-type: none"> ✓ Wave measurements from oil rig using WaveGuide 5 Compact radar of RADAC B.V. ✓ Purchase of next two radars for directional wave measurements.
Modelling	<ul style="list-style-type: none"> ✓ Implementation of MIKE3 regional hydrological and water quality models for the Gulf of Gdansk, Vistula Lagoon and Polish coastal areas. ✓ Development of the shallow water wave model for operational purposes and forecasts.
Data, product and service	<ul style="list-style-type: none"> ✓ Daily forecast of hydrodynamic and ecological parameters for the Gulf of Gdańsk, Puck Bay and Vistula Lagoons published at a web page http://pogodynka.baltyk.pl , tab “Bałtyk” benchmark “prognozy specjalistyczne” (in Polish) and/or „specialistic forecast” (in English). ✓ Daily forecast of sea waves using Wave Watch III model by NOAA/NCEP - National Oceanic and Atmospheric Administration) ✓ Presentations of sea level measurements at web page: http://monitor.pogodynka.pl/ ✓ Presentations of the sea water temperature http://www.pogodynka.pl/polska/temperaturywod/
Projects including BOOS partners	

Other relevant projects	SeaDataCloud, https://www.seadatanet.org/About-us/SeaDataCloud
Involvement in BOOS tasks	
Involvement in EuroGOOS WGs, TTs	Tide gauges TT
Suggestions to BOOS future activities	
Additional information	