

BOOS Annual Meeting 2015

Member report

Institution	IMGW-PIB
Country	Poland
Observations Status and new initiatives	<p>Present:</p> <ul style="list-style-type: none"> - 6 cruises within Polish EEZ in frame of the Polish national monitoring programme within HELCOM / MSFD, - intercalibration field measurements in the Russian part of the Vistula Lagoon (together with Kaliningrad Centre for Monitoring and Hydrometeorology) under HELCOM / MSFD monitoring of IMGW, - temperature and salinity measurements —performed automatically or manually (by observers), at selected measuring stations located along the Polish coast, - sea level measurements performed at selected automatic or manually (by observers) measuring stations located along the Polish coast, <p>New initiatives:</p> <ul style="list-style-type: none"> - development on wave measurements at the Polish oil platform Baltic Beta (acoustic waves and currents (AWAC) sensor system was deployed in April 2015, without data transmission so far), - restart of operation ferry-box line between Gdynia and Karlskrona in a frame of national monitoring programme of the Polish marine waters, - METEO-RISK – meteorological data from buoy to enhance safety on the sea.
Modelling Status and new initiatives	<p>Present and new:</p> <ul style="list-style-type: none"> - maintenance of an hydrodynamic model for the Polish coastal waters: the Gulf of Gdańsk (including the Puck Bay) and the Vistula Lagoon: improvement made on model accuracy, semi-automated data importing from meteorological model; ongoing assimilation of hydrological data made available from monitoring cruises and daily presentation of forecast simulations at www.baltyk.pogodynka.pl - maintenance of a wave model for the Polish EEZ (Central Baltic Sea), improvement made on model accuracy; daily presentation of 6-hourly forecast up to 48 hours of wave high and direction simulations together with wind forecast results is available at www.baltyk.pogodynka.pl
Dissemination Status and new initiatives	<p>Present and new:</p> <ul style="list-style-type: none"> - web page www.pogodynka.pl (ongoing): <ul style="list-style-type: none"> ➤ sea level and weather – present and forecast from 2 models; ➤ water level in rivers, ➤ radar: cloudiness and precipitation, ➤ meteorological and hydrological warnings, ➤ weather forecast for the coastal zone – from the model, not verified by synoptics, ➤ marine weather forecast for the Baltic Sea sub-regions, in the scope of the national weather service provided by IMGW-PIB and issued by synoptics, - BOOS web page : sea level data from 2 stations: Gdansk Port Polnocny and Ustka) (ongoing), - exchange of monitoring data and information on the

	<p>environment state of Vistula Lagoon and Southern Baltic between IMGW and Kaliningrad Center for Monitoring and Hydrometeorology (Kaliningrad, Russia) (ongoing),</p> <ul style="list-style-type: none"> - exchange of meteorological and hydrological data and warnings between IMGW and Kaliningrad Center for Monitoring and Hydrometeorology (ongoing), - “Assessment of the environment state of the Polish EEZ in 2013 regarding 2003-2012 decade” based on monitoring data in accordance with the MSFD and WFD requirements,
Relevant national projects	<ul style="list-style-type: none"> - National Oceanographic Service in the frame of National Hydrological and Meteorological Service, - National Monitoring of the Polish part of the Baltic Sea (in accordance with HELCOM), - balance of nutrients transport within the Gulf of Gdansk by means of ADCP data analysis – in the scope of IMGW’s research activities, - development of multimetric phytoplankton indicator including taxonomic composition as a requirement of MSFD – IMGW’s research activities, - developing a phytobenthos classification system by means of metals and radionuclides concentration as a requirement of MSFD – IMGW’s research activities, - ISOK – flood risk maps; preparing metadata from marine data (open sea and coast) according to INSPIRE directive and Polish law on Information of Spatial Infrastructure (in Polish: IIP), - WIGOS (WMO Integrated Global Observing System) – to assure the quality and standards of meteorological data, - METEO-RISK – Building up a marine meteorological measuring system towards the support of the COSMO forecast model, - sea noise monitoring in accordance with the descriptor D11 in MSFD, as a part of the Polish Baltic monitoring programme (deployment of a set of hydrophones in trial mode during 2015 with the aim to operational future data acquiring system for the calibration of a regional noise model yet to be implemented in the Southern Baltic), - updating of river basin management plans, including coastal and transitional waters,
Relevant International projects	<ul style="list-style-type: none"> - SAMBAH (Static Acoustic Monitoring of the Baltic Sea Harbour Porpoise), - SeaDataNet2 (pan-European Infrastructure for Ocean & Marine Data Management), - BALSAM, - EMODNet (Chemistry, Biology), - HARDCORE – use of coastal radars for environmental monitoring in a way to obtaining information about processes connected with the ice formation (eg. coverage, deformation)
Additional information	<ul style="list-style-type: none"> - participation in the XII in 2014 and in the XIII Baltic Science Festival from 18th to 24th May 2015 - Organisation of internships for students (physical and chemical oceanography) and pupils (chemical college), - Polish experts for: WG DIKE, HELCOM MONAS, HELCOM

	<p>MORS, HELCOM EUTRO, HELCOM MORE, HELCOM EUTRO-OPER, HELCOM CORESET II, - Tracking and studying the BMI within the Polish EEZ.</p>
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