BOOS Annual Meeting 2015

Member report

Institution	**Russian State Hydrometeorological University**
Country	Russia
Observations Status and new initiatives	In the summer 2014 field investigations were carried out by Russian State Hydrometeorological University in the Eastern part of the Gulf of Finland in July-August 2014. The main objective was to study the time-space variability of hydrophysical, hydrochemical, hydrobiological characteristics. 29 vertical CTD profiles were measured; the samples analyzed for dissolved oxygen, pH, concentrations of phosphorus and phosphates, N-Nitrate and N-Nitrites, Silicon oxides and Total Alkalinity. Also 17 samples for chlorophyll "*a*", suspended matter, phytoplankton and zoobentos were collected. **New initiative**: investigation of bio-optical characteristics of the water body. In-situ and remote sensing observations were made in cooperation with Institute of Oceanology of RAS along with the measurements of the spectral upwelling radiance and the spectral downwelling irradiance. Using these data regional optical algorithm for the operational remote estimation of the chlorophyll-a concentration in the eastern part of the Gulf of Finland was developted and validated for 10 years observational chlorophyll "*a*" data. Intercalibration of the chemical and biological samples in cooperation with SYKE and TU in the frame of the GoF 2014 Year project.
Modelling Status and new initiatives	• Forecasts of the local operational oceanograpgic system GULFOOS (gulfoos.rshu.ru) were validated using observational data collected during summer cruise • A NEMO based numerical configuration for the Gulf of Finland was developed with spatial resolution 200 m. High spatial resolution allow to investigate a mesoscale • eddies forming in the coastal area of the eastern GoF.e
Dissemination Status and new initiatives	RSHU regularly updated and sent to the European catalog of data sets on the marine environment (EDMED) information on the marine environment as a partner in the project SeaDataNet (metadata): data description and data sets. RSHU created connection to the SeaDataNet infrastructure for the CDIs downloading and give access to CDT data collected by RSHU in summer cruises in the Baltic Sea for 2000-2007 and 2010.
Relevant national projects	Federal Target Program " Research and development on priority directions of scientific-technological complex of Russia for 2014 - 2020 years". (Ministry of Education and Science of Russia Federation)
Relevant International projects	SeaDataNet, the project ends in 2015
Additional information	