



*This project
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The NATO Science for Peace
and Security Programme

Bio-Optical Characterization of the Black Sea for Remote Sensing Applications (ref. 982678)

Beginning in November 2009, scientists from Turkey, Bulgaria, Ukraine, Russia and Romania have cooperated in an effort of implementation of a tool to support remote sensing applications for the operational environmental monitoring and climate studies in the Black Sea. The new models and algorithms to be developed for the quantification of the concentration of seawater optically significant constituents (mostly chlorophyll a, total suspended matter and yellow substance), will result from the analysis and application of comprehensive in situ bio-optical measurements of optical properties (inherent and apparent) and concentration of seawater optically significant constituents performed during two major oceanographic campaigns. At the current stage of the project, the main focus of the group is the acquisition of the needed instrumentation and the planning of the measurement campaigns.

The Institute for Environment and Sustainability of the Joint Research Centre (JRC Ispra) is a major civil entity that will make use of the outcomes of the scientific activities of this project in its processing chain for satellite ocean colour data in view of generating more accurate remote sensing products for the Black Sea. Other collaborating institutions comprise the Maritime Hydrographic Directorate and the Research Centre of the Navy (Romania).

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Web site: www.natosps.io-bas.bg