



SEOS

Science Education through Earth Observation for High Schools

EARTH OBSERVATION AS AN EDUCATIONAL TOOL

The aim of the SEOS project is to support the integration of earth observation and remote sensing as an element of science education in high schools encouraging the sensibility of students to their natural environment. The knowledge may concern daily weather data, long-term climatic conditions, land cover changes, marine pollution or environmental hazards and their interconnection.

The project covers many disciplines such as physics, biology, geography, mathematics and engineering, focusing on the interdisciplinary character of remote sensing. Students will combine personal observations with global perspectives, and will gain an understanding of the techniques needed for receiving and interpreting the data. The project aims to convey scientific literacy, which belongs to the key education standards.

eLEARNING TUTORIALS

With more than 250 members, many of them university institutes, the European Association of Remote Sensing Laboratories (EARSEL), one of the project partners, has high expertise in earth observation using remote sensing techniques. Based on the research results, internet-based eLearning tutorials will be prepared on selected topics in earth observation. During the two-year project period the eLearning tutorials will be developed and tested in co-operation with several partner high schools.

Integrating earth observation with remote sensing provides a basis for further use of environmental monitoring in work life. Therefore, the tutorials will meet also the requirements for training courses for users of GMES services. The UNESCO will use the produced material for educational purpose in selected developing countries extending the benefits of this project to an even larger audience.



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LIST OF PARTNERS

- Carl von Ossietzky Universitaet Oldenburg, Germany
- European Association of Remote Sensing Laboratories, Germany
- United Nations Educational Scientific and Cultural Organization (UNESCO), France
- Mediterranean Agronomic Institute of Chania (International Center for Advanced Mediterranean Agronomic Studies - CIHEAM), Greece
- Institute for Science Networking Oldenburg GmbH, Germany
- Ghent University, Belgium
- Vrije Universiteit Amsterdam, The Netherlands
- University of Aarhus, Denmark
- Belgian Federal Science Policy Office, Belgium
- Natural Environmental Research Council, UK
- University of Education Heidelberg, Germany

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PROJECT INFORMATION

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