

EO2HEAVEN mitigating environmental health risks

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Abstract

The objective of EO2HEAVEN is to contribute to a better understanding of the complex relationships between environmental changes and their impact on human health, with an emphasis on three particular case study areas. The main result of the project is the design and development of a toolbox based upon an open and standards-based Spatial Information Infrastructure (SII), which can support research of human exposure and early detection of potential health threats. For this reason the project developed models to relate environmental data with exposure and health data. In addition EO2HEAVEN examined different Earth Observation products, especially those resources available free of charge for the research community. In order to study the impact of human activity on health the project took advantage of the availability of this data to evaluate its potential for detecting and mapping environmental variables. For this purpose EO2HEAVEN also worked on the integration of remotely sensed and in-situ environmental measurements.