

Range of Information Systems for Earth Observation Data Dissemination and Use

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There are many enough remote sensing (RS) data and examples of their successful applications in Ukraine. Unfortunately, not all old data that can be successfully used for analysis of environment changes, for example, are in digital form and search and use needed data is difficult. There are problems with storage data standards/formats, levels of pre-processing and data quality. Users have problems now with search of data in Ukrainian and foreign storages, study of successful applications, common use of data for their own tasks solving. Ukrainian Aerospace Observation Network (UASON) that is initiated for creation by National Space Agency of Ukraine (NSAU) has to help solve these problems and provide interoperability of information presenting according to approaches of Global Monitoring for Environment and Security (GMES) and Global Earth Observation System of Systems (GEOSS). There are different levels of RS data processing and directions of their use:- thematic map creation for direct use;- use of RS data processing results and needed in situ data within user information systems for environment state assessments, predictions, etc.:- presenting of generalized information as thematic or territorial atlases, electronic reports, etc. Space Research Institute of National Academy of Science and National Space Agency of Ukraine (SRI NASU-NSAU) has some results in all listed directions. Environment management information systems for big river basins are created. The reports about state of environment within Ukraine, Dnipro river basin, etc. prepared on the basis of FAO Dynamic Atlas software were elaborated and wide disseminated.