

Integration of satellite data into the environment and natural and anthropogenic objects monitoring systems

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This report describes the technology of building the satellite data collection, storage, processing and dissemination automated systems, which was developed in the Space Research Institute of RAS. The technology is based on use of core blocks which allow to set up the standard stages of satellite data receiving and processing and also the stage of the processing results integration into the dedicated information systems. The presented technology allows to optimize creation and support costs of the blocks which provide the work with satellite data in environment and different natural and anthropogenic objects monitoring systems. This report highlights the main features of the monitoring systems built upon this technology. The list of such systems includes:· Forest fires remote monitoring system of the Russian Federal forestry service.· Branch-wise system of fishery monitoring.· Agricultural lands monitoring system of the Russian Ministry of agriculture.· Environment monitoring system for different scientific projects. Also the report shows the analysis of the integration possibilities of the already existing in Russia particularized and branch-wise systems built upon the presented technology.