

Open Joint-Stock Company «Research Institute of Precision Instruments» (OJSC "RI PI")

IGDIS ERS. Current State and Prospects of Development

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Purpose and Tasks



2.22

Integration ERS information resources into a unified geo-information space



ERS data providing for end users

Tasks

- Orbital constellation of ERS satellites application planning
- IGDIS ERS ground-based infrastructure application planning
- Information reception and processing from Russian and foreign ERS satellites
- Classification and storage of ERS products
- ERS products unified cataloging
- Access to IGDIS ERS information resources via geoportals and web-services



Functional Structure









Reception and ERS Data Processing Centers





Flow Chart





Informational Systems that Using Web-services of Roscosmos Geoportal





The Directions of Development





Creating Cloud Computing Data Processing Centers in IGDIS ERS Centers





Limiting Factors of Wide Using Technologies for Various Types of ERS Products Creation





Placing of ERS Products Creation Technologies in Cloud Infrastructure of IGDIS ERS Data Processing Centers





ERS Data Processing Requests Execution



Requests parameters

- spatial-temporal parameters
- input data
- product's type
- product's specific parameters



Interaction with CWIC





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