

Architecture of software framework for development of web-systems for georeferenced data analysis

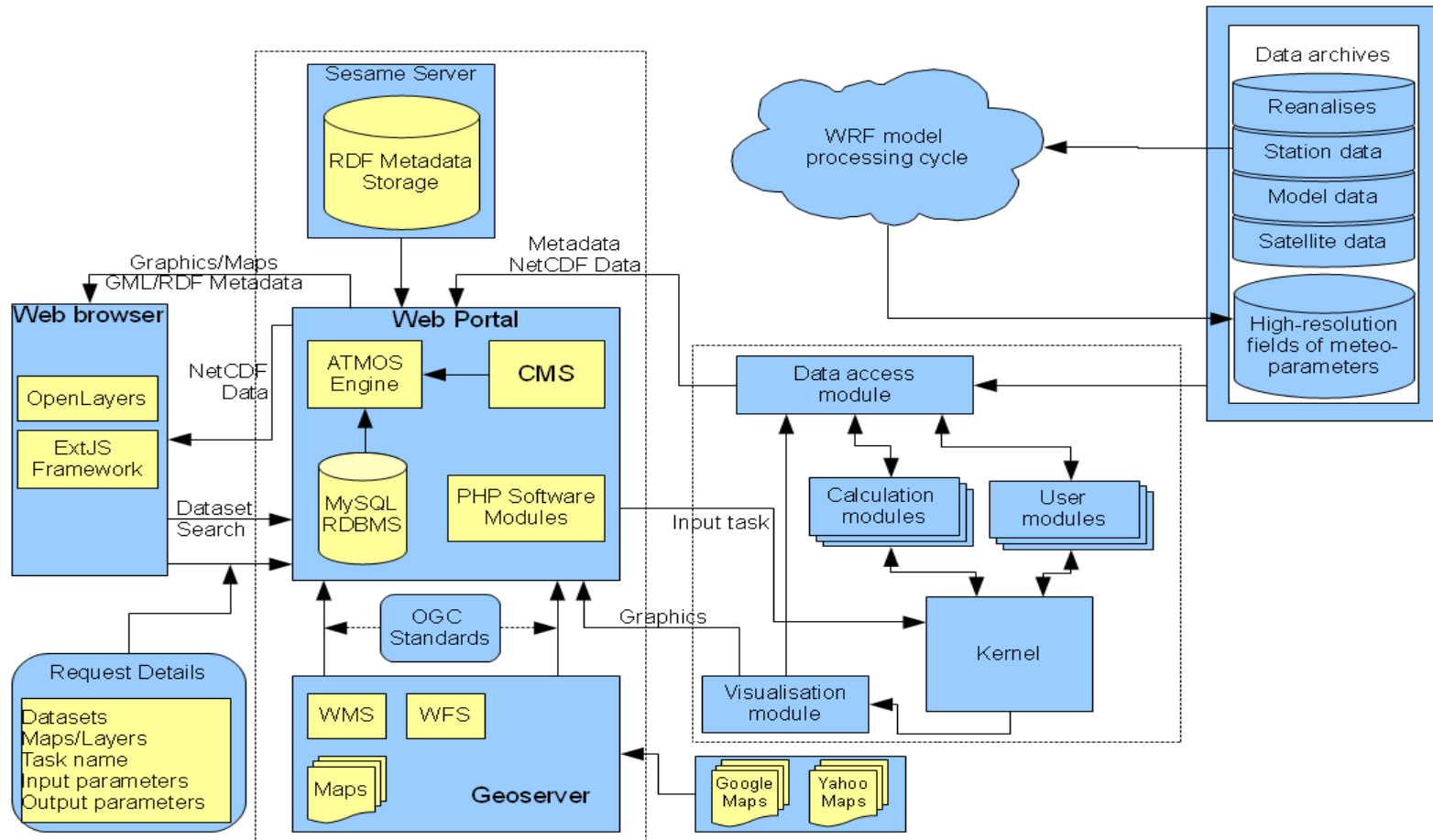
Titov A.G., Gordov E.P., Okladnikov I.G.

Institute of Monitoring of Climatic and Ecological
Systems SB RAS / Department of Problems of
Information TSC SB RAS , Tomsk, Russia

Background & Objectives

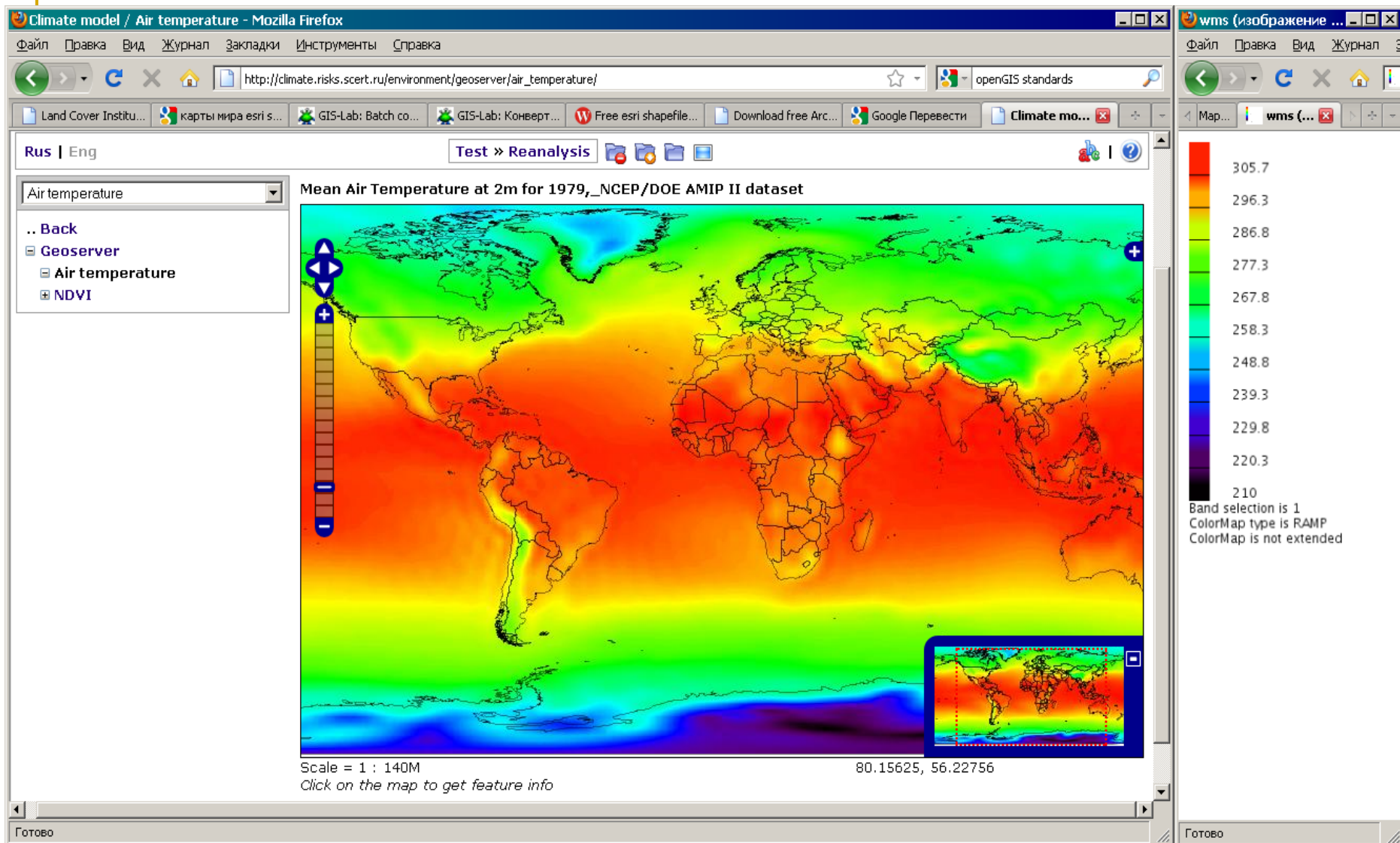
- Information support of integrated scientific research in the area of Earth Science
- Creation of software frameworks for development of information-computational systems aiming at complex analysis of spatially distributed geophysical data
 - Meteorological observations
 - Reanalysis and modeling results
 - Remote sensing data
- Initial heterogeneity of data sets obtained from various sources
- Web mapping (Web-GIS) technologies should be used to provide the functionality required

Preliminary results



- Computational kernel, implemented in IDL
- Web portal implementing logic of web-applications and providing API for working with computational kernel and cartographical web-services
- Class library for graphical user interface (GUI) development

Examples: mean air temperature at 2m, 1979



Thank you for attention