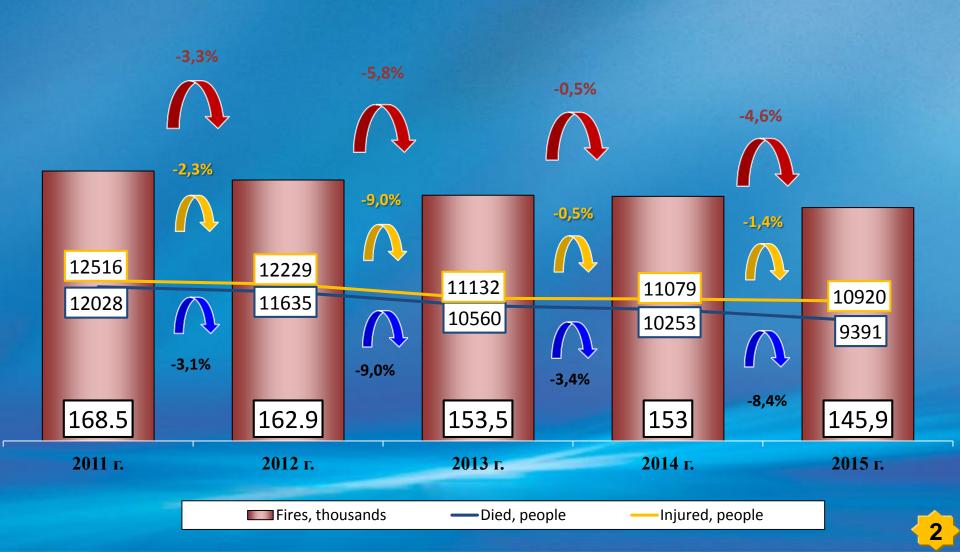
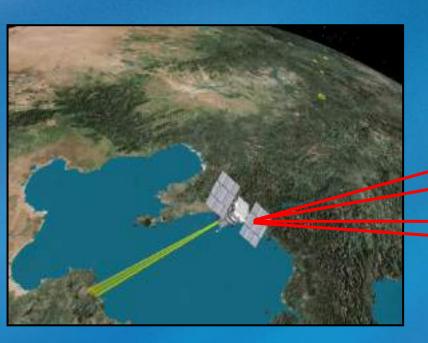


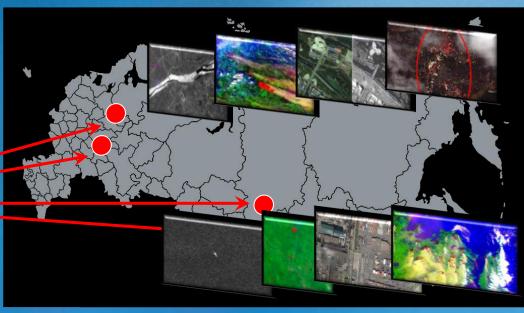


CORE INDICATORS OF THE FIRE SITUATION AND IT'S CONCEQUENCES ON THE TERRITORY OF THE RUSSIAN FEDERATION



SPACE MONITORING AND AUTOMATIC SYSTEMS





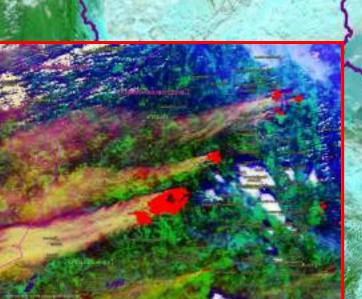


DATABASE AND SYSTEMS OF MONITORING FORECASTING OF NATURAL FIRES IN THE "KASKAD" SYSTEM

Measuration
MET data
Airdromes
Radiation Situation
Seismic data
Fires
Forecasting of fire
development
Hydrological Phenomena
Fire Garrison
Forest Sector
Satellites

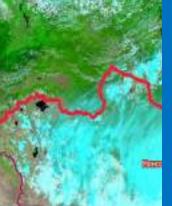
Base Materail

At the time of forest fires it is necessary to define initial fire at early stage and to control its dynamics. Every day up to 4 times is conducting receipt and processing of space-based information throughout Russia. Within 60 minutes after receiving information about the location of lesions and their characteristics are passed to EMERCOM of Russia as well as the authorized representatives of the President and the governors. During the 2015 year on the results of satellite monitoring uncovered more than 23,000 dangerous wildfires pose a real threat to nearby settlements.





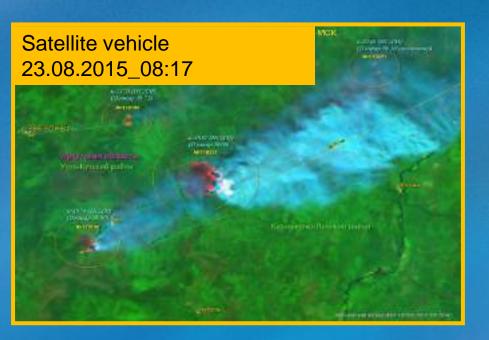


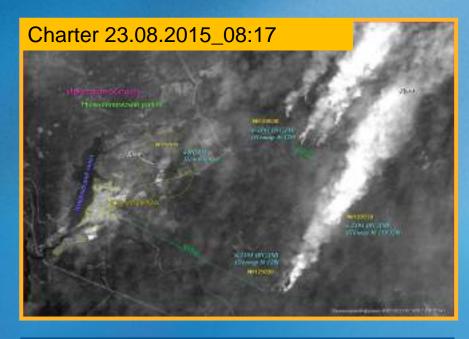


Tasks of Space Monitoring System:

- 1. Assessment of the situation in the disaster areas, assessment software and territories in high-risk situations;
- 2. Monitoring of emergencies associated with flood events;
- 3. Monitoring of natural fires;
- 4. Assessment of the accidental spills of petroleum products and the dynamics of their distribution;
- 5. Searching of emergency facilities in distress in remote areas and waters.

SPACE IMAGES OF FIRES





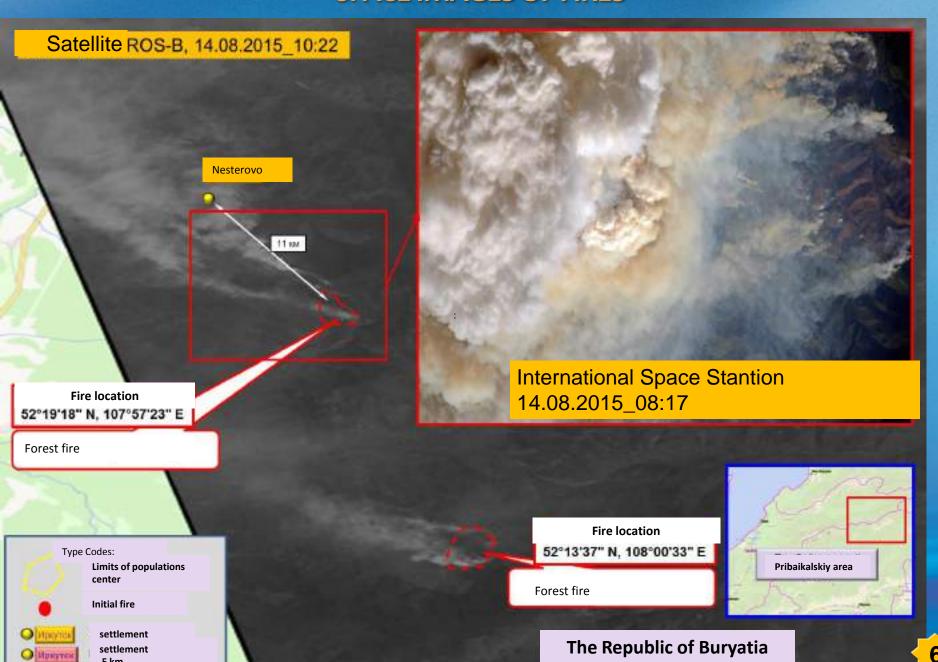


For 2015 year more than 10 thousands space images were received:

Charter line - more than 800 images

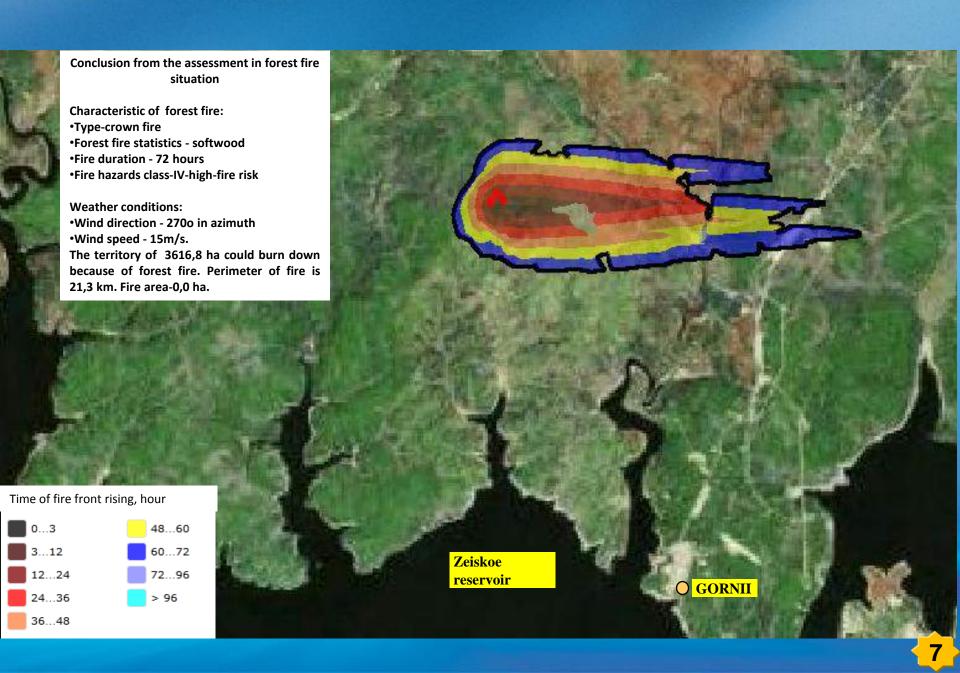
Russian segment of International Space Station – more than 80 images

SPACE IMAGES OF FIRES

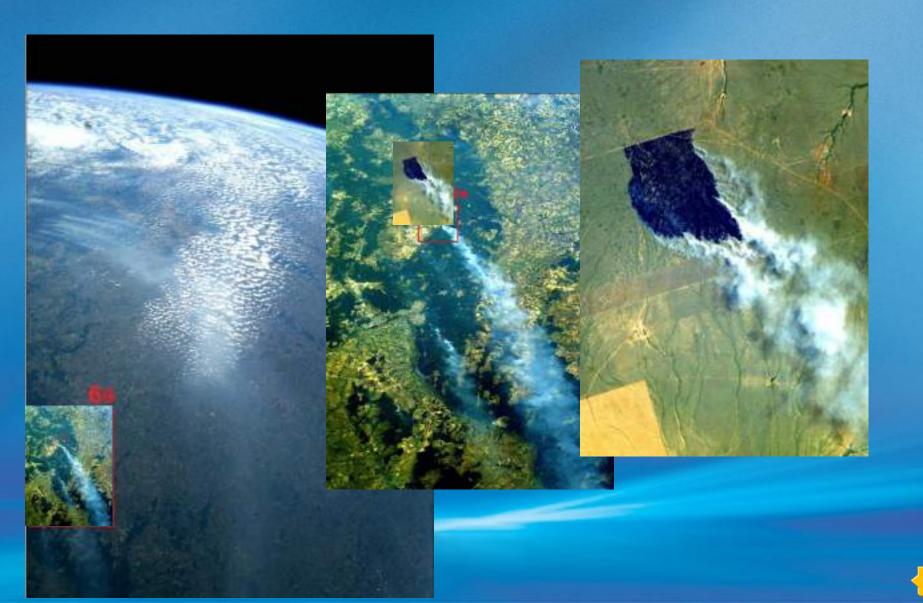


5 km.

DETECTION OF THERMOUNIT, FORECASTING OF FIRE DEVELOPMENT



IMAGES OF FIRES FROM INTERNATIONAL SPACE STANTION





ON-LINE MONITORING OF FLOOD-PRONE TERRITORY

For 2015 year more than **7000** space images were received and analyzed.

At the base of space images were indentified more than 72 places of ice jams and more than 250 places of saturation of population centers and facilities.









ON-LINE MONITORING TERRITORIES IN HIGH-RISK SITUATIONS



