

Global Session

Friday, 01 November 2019

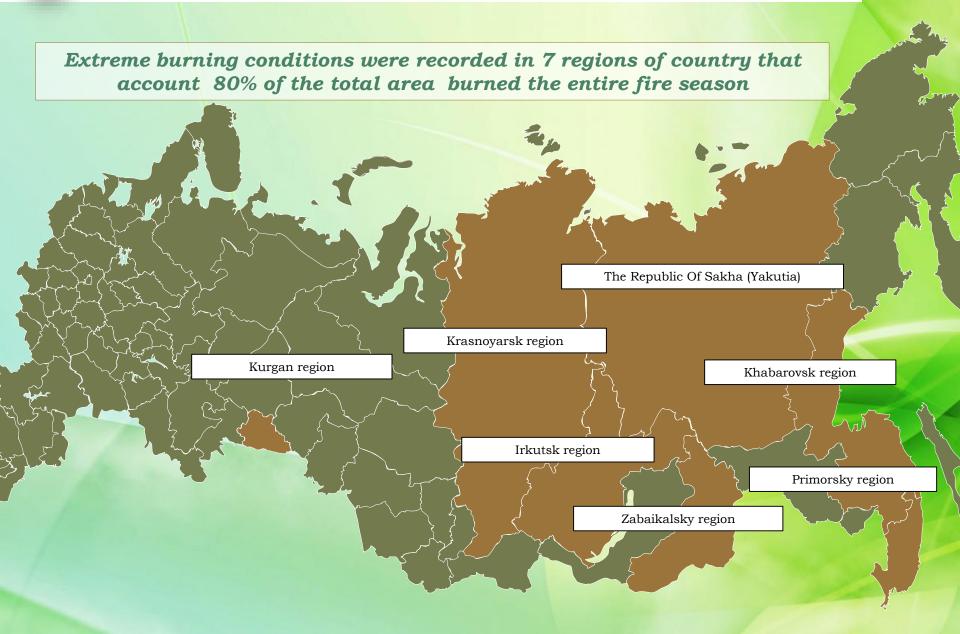
Regional Statement

EURASIAN WILDLAND FIRE NETWORKRussian Federation

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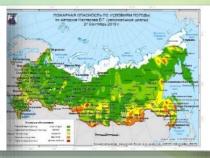


COLOR ON THE MAP	COMPREHENSIVE FIRE HAZARD INDEX	FIRE DANGER RATING INDEX
Safe	0-300	I
Low	301-1000	II
Moderate	1001-4000	III
High	4001-10000	IV
Extreme	Over 10001	V













FIRE DANGER RATING BASED ON NESTEROV INDEX

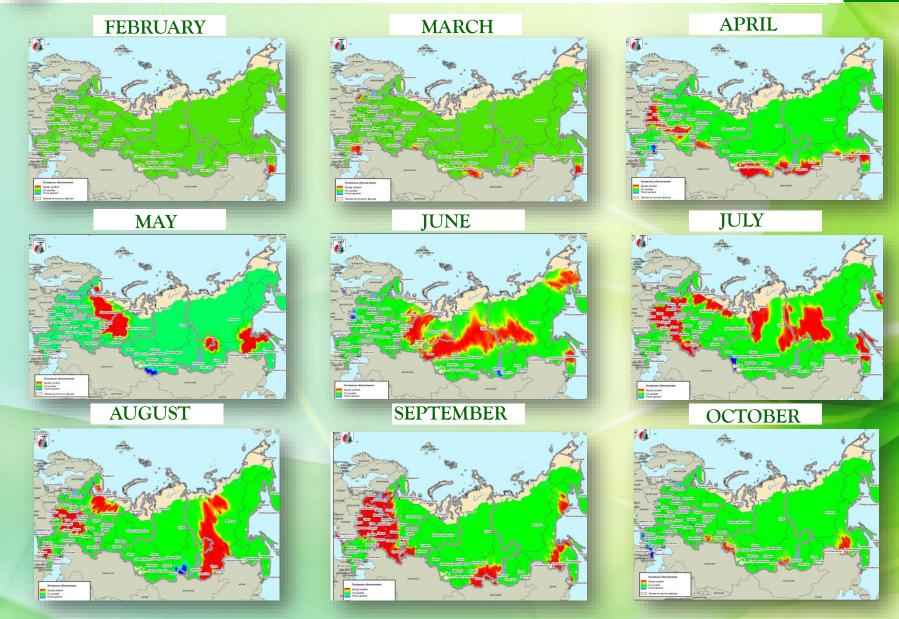
$$\sum_{1}^{n} \left[t^{\circ} (t^{\circ} - \tau) \right] \begin{bmatrix} n \\ \tau \\ t^{\circ} \end{bmatrix}$$

- the number of days after a rain

- dew point of current air temperature

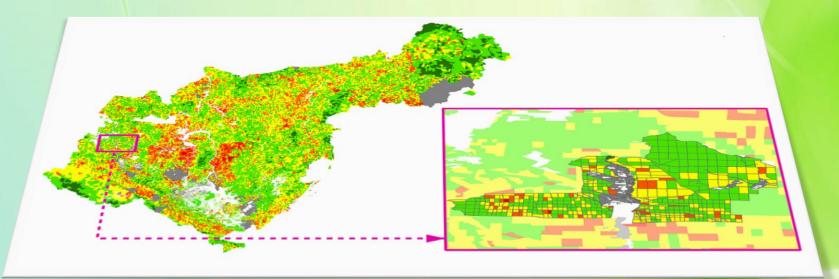
- air temperature at 13:00







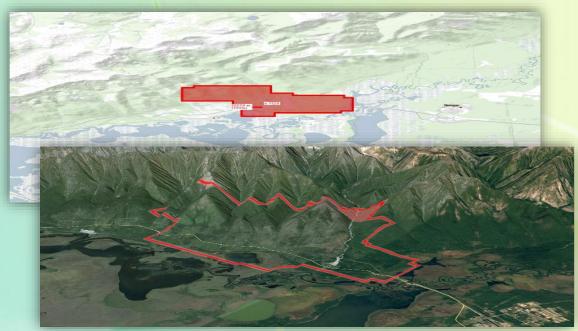
Irkutsk regional map of fire danger rating based on forest conditions



Color on the map	Fire danger rating	Fire danger index
	Extreme	I
	High	II
	Moderate	III
	Low	IV
	Safe	V



Forecast for spreading of forest fire













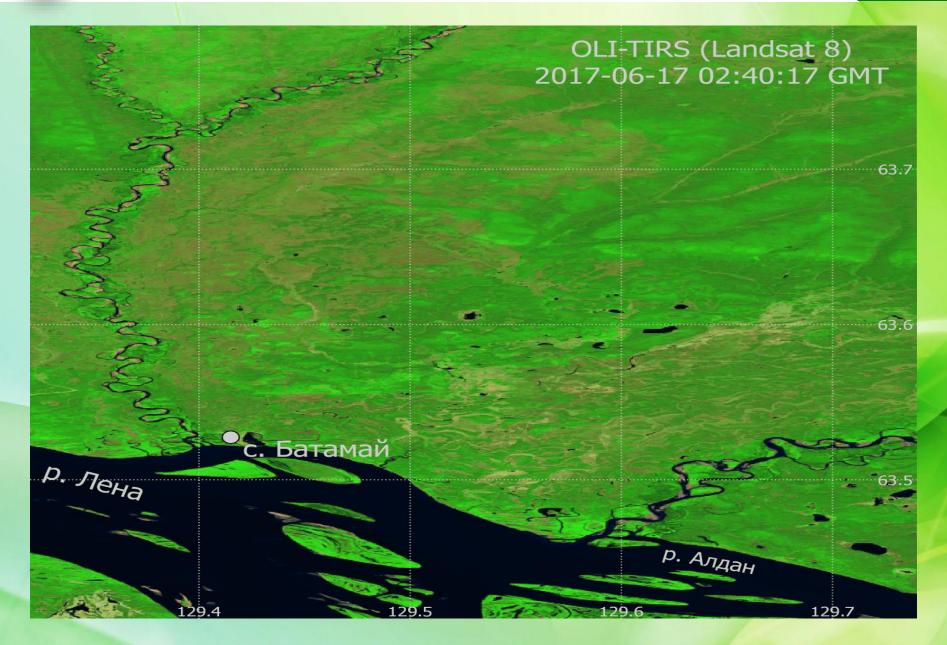


















The Federal Headquarters also makes decisions based on regional requests:

- on the definition of specific regions in which it is necessary to extinguish forest fires using explosive materials:
- on the definition of specific regions in which it is necessary to extinguish forest fires using artificial precipitation technologies;
- on inter-regional maneuvering by forces and fire extinguishing means;
- on the determination of specific regions in which assistance is needed in stabilizing the forest fire situation and preventing and eliminating emergencies in forests by the forces of the Federal Reserve











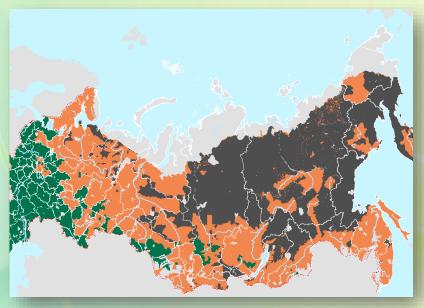








1 170,2 mln. ha



Ground forces fire management zones-72.7 million hectares Aerial fire management zones-482.2 million hectares



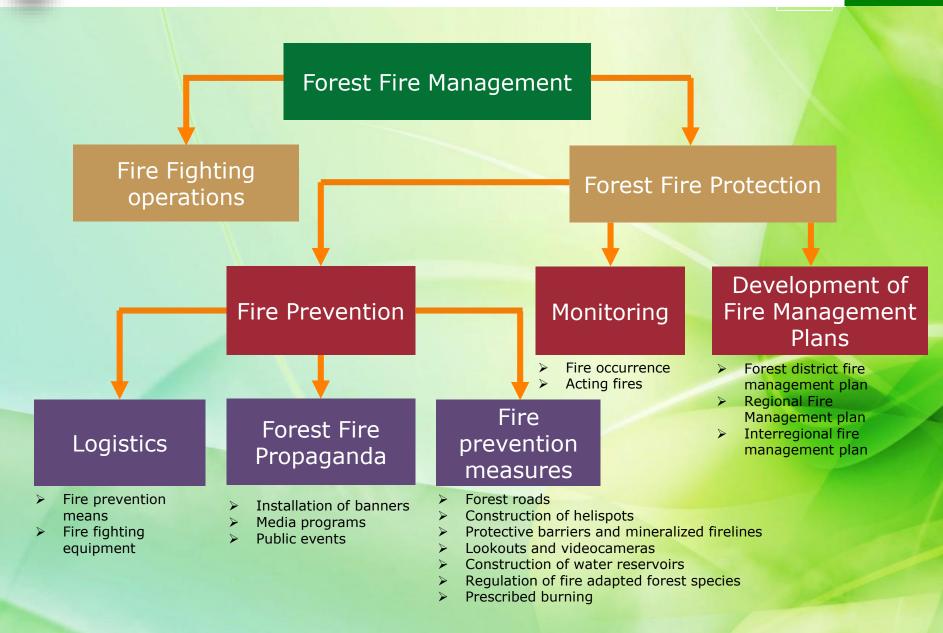
Over 300 aircraft
3 900 smokejumpers/hellirappellers

Aerial fire management zones-/control zone - 482.2 million hectares

Information system based on remote sensing used fore design making support(ISDM-Rosleskhoz)









Forest plan of the region

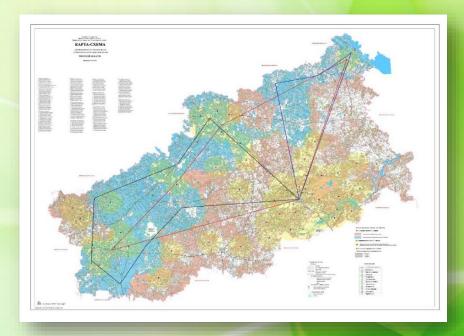
- Developed for 10 years period
- Establishes conceptual approaches and key volumetric indicators

Forestry Regulation of the District

- Developed for 10 years period
- Requirements of the preventive measures and operations to be provided

Forest Use Project for the companies

 A specific list of fire prevention measures with deadlines







Forest District Fire Management Plan

Regional Forest Fire Management Plan

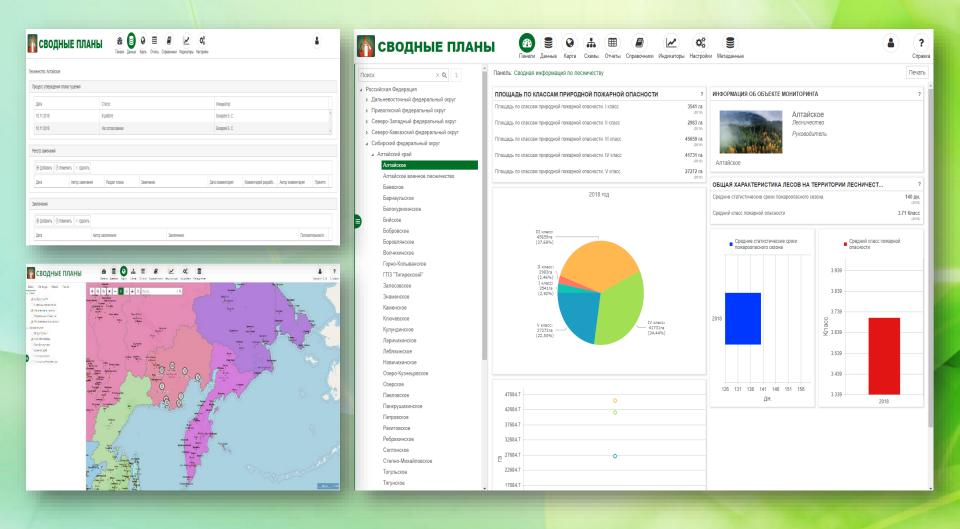
Interregional Forest Fire Management Plan

- Features of the organization of fire protection
- The list of fire fighting forces
- Regulation of deployment of firefighting forces
- List of ongoing fire management organizational measures
- Procedures for deployment of additional regional and federal reserved forces





AUTOMATED SYSTEM FOR DEVELOPMENT OF FIRE MANAGEMENT PLANS





Access of the maximum firefighting forces to information related to the operations

- Forest fire map
- Burning area in daily dynamics
- Number of resources and their locations

Information exchange

- Tasks
- Availibility of resources
- Confirmation of tasks/orders and reports

Automation of calculation processes

- Calculation of the required forces and means
- Extinguishing performance calculation
- Prediction of fire management and fire damage costs
- Preparation of recommendations

ISDM-Rosleskhoz





Need of development of new technologies and approaches on wildfire risk assessment using modern and advanced experiences

Development of educational programs and need of public propaganda on fire prevention

Increase of forest fire preventive measures

Development of procedures on Interagency and Interregional Cooperation on Fire Management

Strengthening international cooperation on the transboundary fire management issues

Need of solving the issues of forest protection on extended areas / control zones

