EMERCOM of Russia

The Ministry of the Russian Federation for Civil Defence, Emergencies and Elimination of Consequences of Natural Disasters



The Development of the Due Warning Systems of Emergencies in the Russian Federation

A structured system of monitoring and disaster prevention on the structure of increased level of risk (SMIS)

The main objects of SMIS control



The transport infrastructure facility



The oil and gas industry



Structures with mass crowding

On-site equipment set









Emergency warning system of meteorological processes in Black Sea coastal zone



Joint civil protection and emergency control system



Local Authorities



Industry risks control systems



Society order control system



Transportation risks control systems





Focal points risks control systems



Fire safety control system



Man-made risk control system

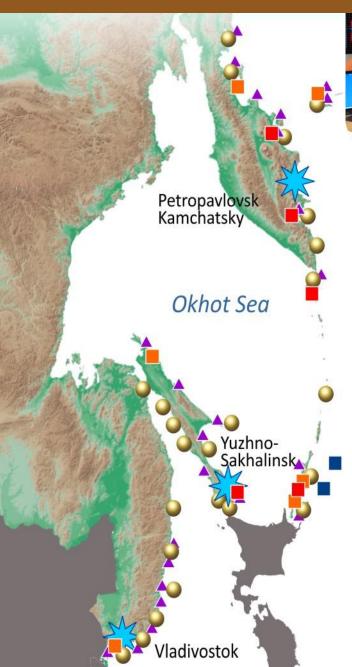


Environmental control system



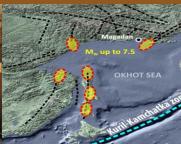
Regional Agencies of the Federal Executive Authorities

Structure of tsunami warning SYSTEM (TWS)









TWS infrastructure

- Reference seismic stations (5)
- Support seismic stations (6)
- Automated sea level stations (25)
- ▲ Hydromet stations operating as part of TWS (37)



Seismic data processing centers and tsunami warning centers (3)

Hydrophysical stations on the sea floor (2)

Key parameters

Calculation of earthquake parameters within **7 min**

Calculation of tsunami wave characteristics within **1 min**

Warning within 2 min

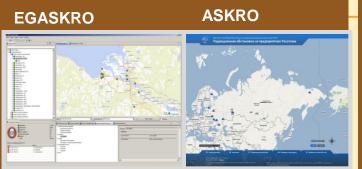
Main outcomes

- Reducing false alarms
 Increasing the lead-time
- of warnings
 Extending the warning
- coverage

Monitoring systems of the Russian Federation

Radiological monitoring

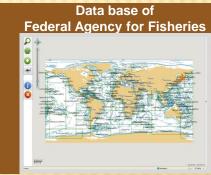
Joint State for System
Surveillance of
Radiological Situation



ESIMO

Data base of Federal
Forestry Agency

| Comparison | Comp

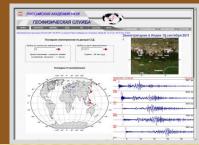


Monitoring and data systems of Ministry of Transport



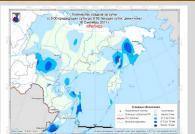
GISMETEO

«SEISMIC»



Monitoring systems of Federal Service for Hydrometeorology and Environmental Monitoring





«STORM»



«TSUNAMI»





Thank you for your attention!