

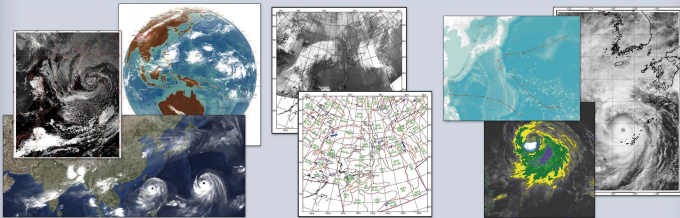


Using satellite data for hydrometeorology and environmental monitoring in the Far Eastern Region of Russia

FEC SRC «Planeta» is a leading organization of Roshydromet of the Russian Far East in exploiting and development of satellite Earth observation systems.

The main activities of the Center are reception and processing of data from Russian and foreign satellites. Our center provides different Russian ministries, institutes and other organizations with images and thematic products from different meteorological, environmental and oceanographic satellites.

CLOUD COVER

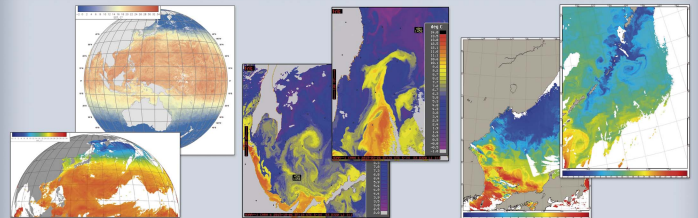


Cloud cover monitoring

Nephanalysis of data obtained by meteorological satellites

Tropical storms monitoring

SEA SURFACE TEMPERATURE

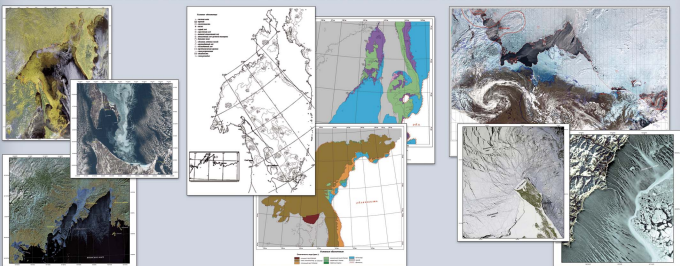


Sea surface temperature of data obtained by satellites MTSAT-1R and Metop-A/Metop-B

Sea surface temperature of data obtained by satellites NOAA

Sea surface temperature of data obtained by satellites Aqua/Terra

ICE CONDITIONS

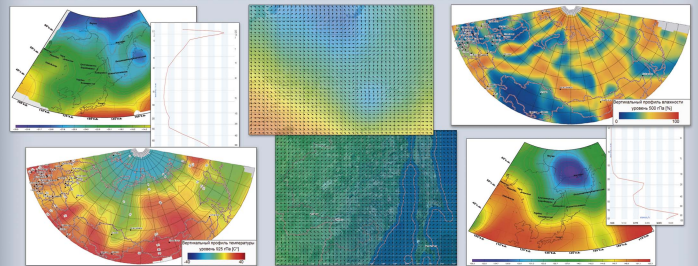


Satellite images of ice observation of Far East seas

Ice maps of Far East seas

High and middle resolution satellite images of ice observation of Far East seas

TEMPERATURE AND HUMIDITY SOUNDING OF THE ATMOSPHERE

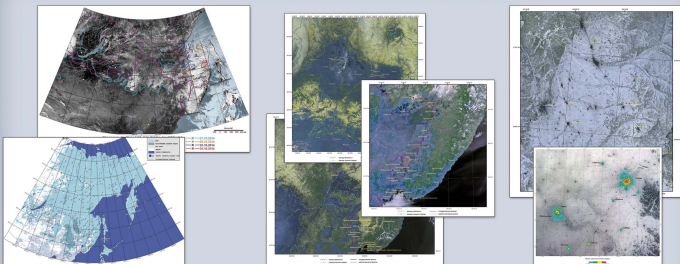


Vertical profiles of temperature (°K)

Wind direction and geopotential maps

Vertical profiles of humidity and geopotential

SNOW COVER

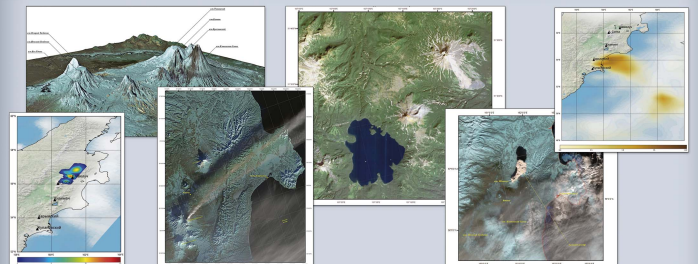


Seasonal snow line and snow-on-the-ground maps

Seasonal snow line of data obtained by satellites Aqua/Terra

Pollution of snow cover

VOLCANIC ACTIVITY



Volcanic activity monitoring of data obtained by high and middle resolution satellites

Concentration of SO2 in the atmosphere (DU)

FLOODS

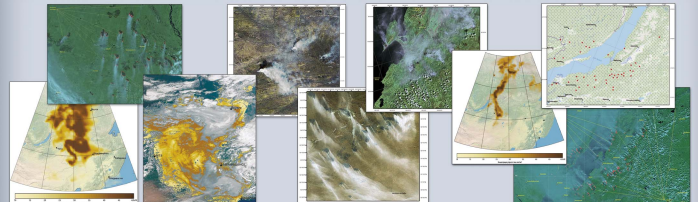


Flood observation of data obtained by high resolution satellites

Flooded areas analysis of data obtained by satellites Aqua/Terra

Generalised schematic map of hydrological situation of Amur river basin

FIRES

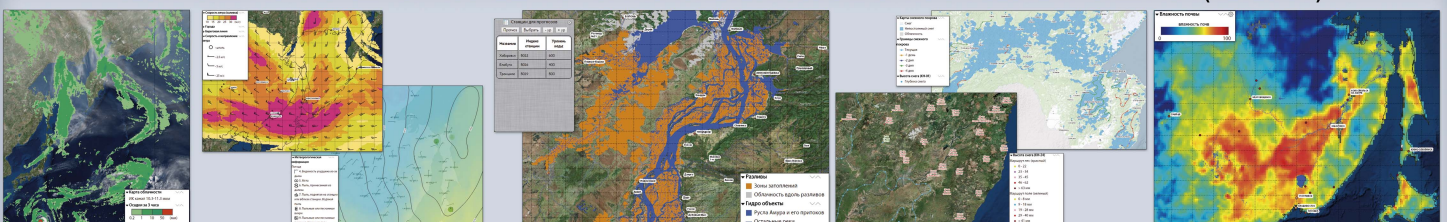


Smoke concentration maps and aerosol index of atmosphere

Fire situation monitoring of data obtained by high and middle resolution satellites

Schematic maps of fires and carbon oxide

GEONFORMATIC SYSTEM FOR VISUALIZATION OF HYDROMETEOROLOGICAL AND SATELLITE INFORMATION (METEO-DV)



Cloud cover and rainfall monitoring

Meteorological parameters

Flood observation

Snow-on-the-ground maps

Soil moisture