

CLIMATIC CHARACTERISTICS WHICH CONTROL SIBERIAN FOREST ECOSYSTEMS DYNAMICS IN THE SECOND HALF OF XX CENTURY

Shulgina T., Genina E., Gordov E.

Institute of Monitoring of Climatic and Ecological Systems SB RAS,
Siberian Center for Environmental Research and Training, Tomsk, Russia


Purpose

To study climate indices dynamics that determine evolution of forest ecosystems in Siberia for the time range 1974 - 2000.

Data:

- ECMWF Reanalysis data with spatial resolution $0.5^{\circ} \times 0.5^{\circ}$
- Observations of 119 meteorological stations which located on Siberian territory

Characteristics:

- Averaged temperature for year, season, month;
 - Sum of temperature $> 5^{\circ}\text{C}$ and length of vegetation period;
 - Amount of precipitation for year, cold and warm periods of year;
 - Temperature range.
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RESULTS

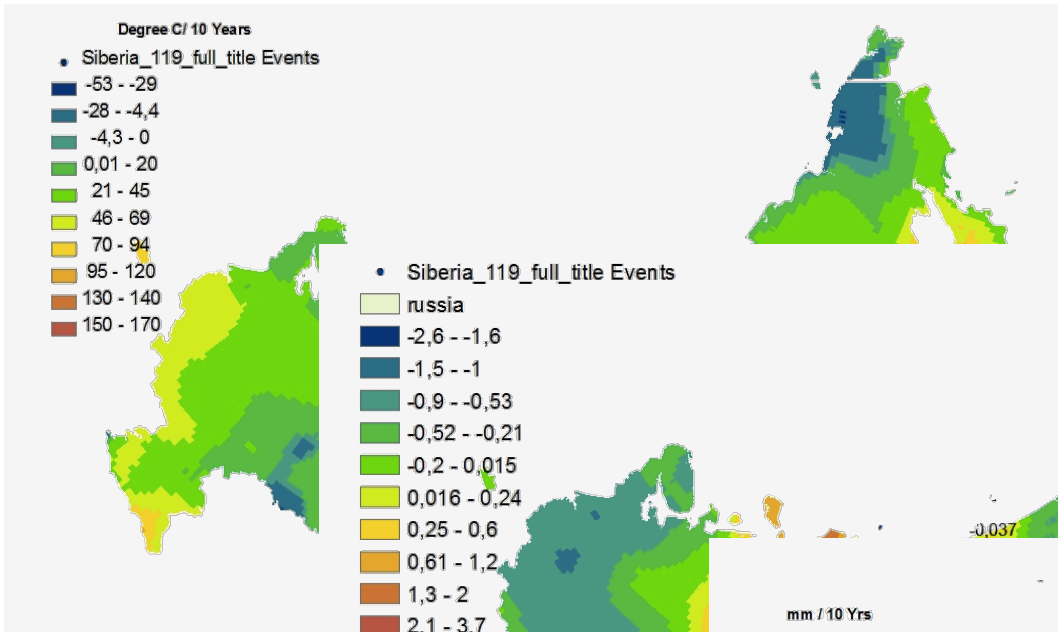


Fig.1. Trend (°C/10 Years) of annual total precipitation based on ECMWF Reanalysis data and station observations, 1974 – 2000.

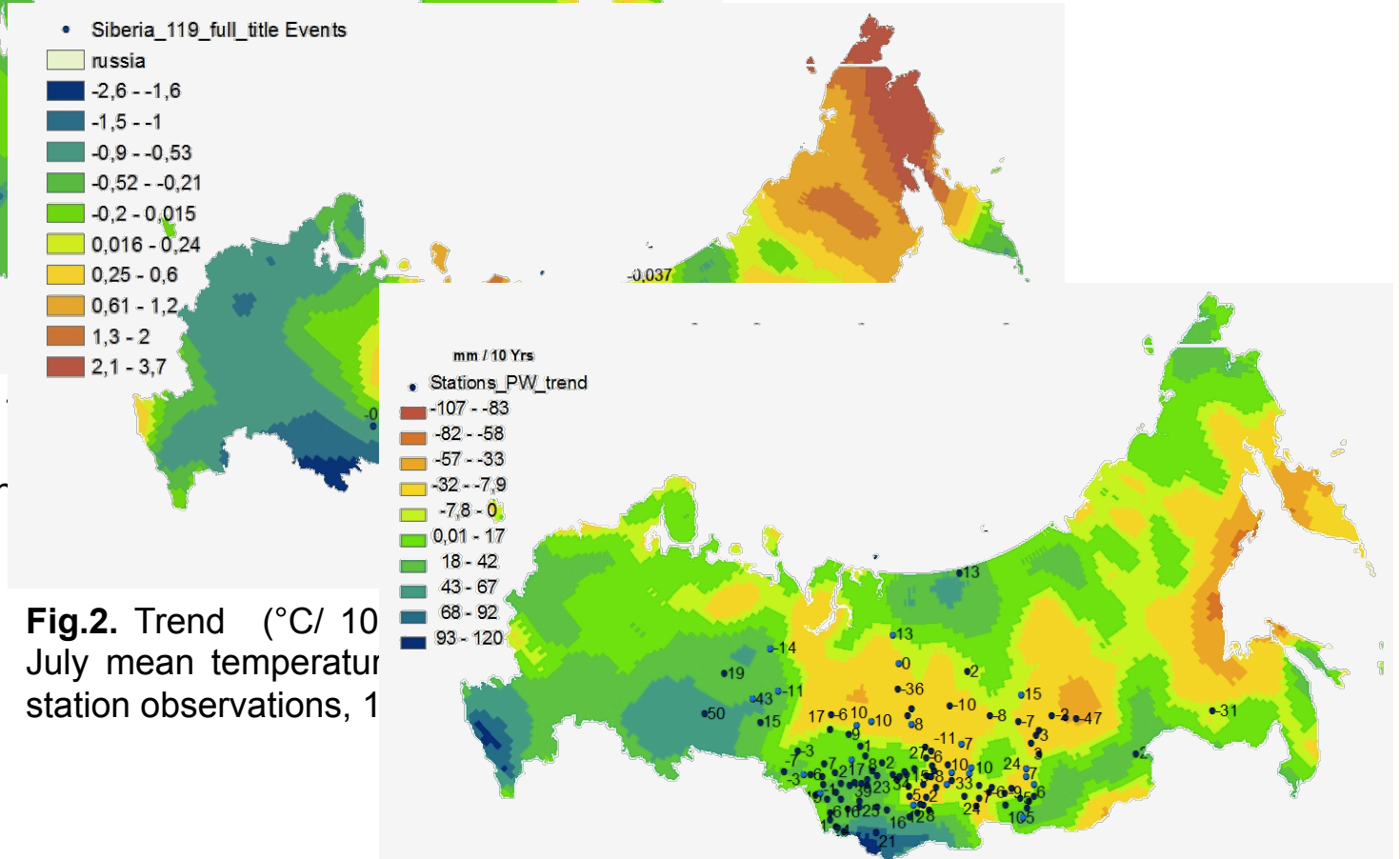


Fig.2. Trend (°C/10 Years) of July mean temperature based on station observations, 1974 – 2000.

Fig.3. Trend (°C/10 years) of annual total precipitation based on ECMWF Reanalysis data and station observations, 1974 – 2000.