



Creation archive of regional meteorological fields with high spatial resolution for West Siberia, 1960-2000

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Purpose

To create archive of regional meteorological fields with high spatial resolution (20km) for West Siberia, 1960-2000, including calibration.

Methodology

The ERA – 40 reanalysis was used as the initial data. Analysis nudging (four–dimensional met analysis) was used for Further correction of received meteorological fields, especially temperature at height of 2 m. 3dvar procedure has been used for model run for a long period (1 month).

Calculation area was West Siberia N.-S. 2500 km. W.- E. 2000 km.

The map of land use USGS (24 types) has been used, the model Noah was used for the terrestrial layer. Calibration and selection of the most suitable physical parameterization was made as a result of comparison with the data of meteorological stations located on territory of the West Siberia.

The received archives are saved in a format netCDF with 6 hours time step.

Plans

Calculating of full archive and analysis of the received data.

Thank you.

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