

## **Climate and environment monitoring of Siberia**

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Recent activity of the Institute for Optical Monitoring SB RAS in organization and performing climate and environment monitoring in Siberia is described. Discussed are also results obtained in process of performing regional projects, such as “Climate and Environment Monitoring of Siberia”, and SB RAS Integrated projects devoted to investigation of natural and climatic variations in Siberia, including those occurs at slightly damaged unique natural complex as Great Vasyugan Bog.

Among most valuable results obtained specially discussed special and temporal structure of the first and higher moments of climatic characteristics retrieved from multiyear series of instrumental observations recently. While balloon observations lead to only two climatic zones in Siberia, which are West and East Siberia, trends of the near surface temperature manifest several spots of accelerated warming here. At the same time amplitudes of the inter-seasonal oscillations in Siberia decrease with grows of the mean yearly temperature like it happens in all Northern Hemisphere.

Discussed are also recently found climatic peculiarities at the vicinity of Great Vasyugan Bog, including anomaly high thunderstorm activity in this domain.