Climate of Slovenia on homogenized data 1961–2014

It took us six years to quality control, homogenize and analyze time series of air temperature, precipitation, snow depth, sunshine duration, air pressure and reference evapotranspiration for the period 1961–2011 in Slovenia. The task was accomplished in 2014.

Climate of Slovenia is illustrated as annual trends and variability of mean air temperature and precipitation sum. Trends are calculated for the period 1961–2011 but variability is shown for the period 1961–2014.

In Slovenia the year 2014 was unique: it was the warmest and the wettest year of all since 1961 on.

Annual variability is expressed as the deviation from the 1981–2010 mean value. Precipitation in %; temperature in °C.

Mean air temperature

The most uniform trend is shown at mean air temperature; it is positive and statistically significant at the 5 % level in all seasons, except in autumn. On annual level the trend is around 0.33 °C per decade.

The charts of annual variability of mean air temperature show characteristic pattern: air temperature before 1991 was mostly colder while after 1992 it was mainly warmer in comparison to the 1981–2010 mean value.