



Climate Atlas of Slovakia

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The Climatological service of the Slovak Hydrometeorological Institute successfully finished the project “The development of spatial data processing technologies of climate system“, ITMS code 26220220102 last year. One of the results of this project was also a new Climate Atlas of Slovakia. This Atlas is a comprehensive cartographic work which contains 175 maps of climatological elements and characteristics and over 200 graphs and tables as an additional source of spatial and temporal information. Graphical information is supplemented by texts in Slovak and English.

In the Climate Atlas of Slovakia there are processed characteristics of air temperature, atmospheric precipitation, snow cover, humidity, evaporation, sunshine, cloudiness, global radiation, air pressure, wind, soil temperature and some of dangerous meteorological phenomena. Further characteristics of the upper layers of the atmosphere and selected phenological characteristics in Slovakia supplement the basic climatological parameters.

Period 1961 - 2010 has been selected as a reference period, however some meteorological elements has been processed in the shorter period. For example precipitation and snow cover have been processed in period 1981 - 1990, because around the year 1981 was expanded network of precipitation stations in Slovakia and so we had a more information about spatial distribution of them.

This publication is only second monothematic climate atlas for the Slovak Republic territory. The first entire climate atlas, Climate Atlas of Czechoslovakia, was published in the year 1958. Some climate chapters can be found in the National Atlas of the Czechoslovak Republic (1935). In the publication Agroclimatic conditions of Czechoslovakia (1975) the maps with some of climatological elements and their characteristic for the cover the standard normal period 1931 - 1960. In the Atlas of SSR (1980) was a chapter Air and waters where

selected climate and phenological maps were processed. The Landscape Atlas of the Slovak Republic (2002) contained maps of selected climatic elements and their characteristics in section 4.3 Atmosphere.