



## **Review Winters during 1999-2007 in Bulgaria**

T. Andreeva

National Institute of Meteorology and Hydrology, Department for Weather Forecasts, Sofia, Bulgaria  
(teodosia.andreeva@meteo.bg)

The attention was paid to winter processes that define the air temperature and the precipitation sums in Bulgaria. Utilised data: time-series (1961-2007) of the monthly mean, minimum, maximum temperatures, the sums of precipitation from some surface synoptic stations and mountain stations have been used as initial data.

The variations of the temperature and precipitation during the winters were estimated expressed in relation to the 1961-1990 period.

By the parameter of the anomalous of the temperature fields we defined the next winters for analyses: 1999/2000; 2001/2002; 2003/2004 and 2005/2006.

We analyse the deviations of winter temperature and precipitation for the mountain regions: station Mussala from mountain Rila in Southwest Bulgaria;

station Botev from mountain Stara Planina; Cherni vrh from mountain Vitosha; station Rojen in Rodope mountains in Southwest Bulgaria;

We analyse the deviations of air temperature on the geopotential levels: 700 and 850 hPa.

The precipitation below norm is observed usually during the periods with positive anomalies of air temperature and vice versa. During the winter the predominant precipitation was in the form of a snow, but for some cases of mild winter the precipitation was rain in Bulgaria. The mild winters lead to early snowmelt.