



## **Synoptical Conditions during the Winter of 2005 caused Floods and Snowstorms in some Regions of Bulgaria**

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Two synoptic situations are studied. It is registered severe weather – floods, snowfalls, snow blowing, and snowdrifts – which lead to disasters in some regions of Bulgaria.

It is shown the reasons cause such heavy weather. The synoptic situation from the 26<sup>th</sup> to the 30<sup>th</sup> January is a great high-pressure area. It hits the most part of the Europe and the Atlantic. A set of Mediterranean cyclones passes over territory of the country and this lead to heavy rain, attended by strong wind at the east part of Bulgaria.

The deep cyclone, hits the weather in Bulgaria during the second synoptic situation. In most of the time our country remains to its front part and this leads to the reinforcement of the south wind. The torrential rain, comparatively high temperature and snowmelt at accelerated rate caused the disasters.

It is used the synoptic archives of National Institute of Meteorology and Hydrology, the distribution of pressure on level 500, 700 hPa and ground level, T850 hPa, precipitation forecasts of ALADIN model, Re-analysis of German service at 00 UTC.