Humidity excess from Banat recorded between 1970 – 2000 period

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Abstract

The humidity excess for the Banat region is determined by the rains generated by the oceanic cyclones activity that is developed at the peripherical azoic anticyclone and by the Mediterranean cyclones with a normal evolution. In the situation in which the cyclonic activity persists, the rains become rich determining a very big humidity which can increase up to the excess. The increase of the annual average quantities with 15-20 % over the multiannual average attributes the name of very excessive rainy years. In this study there were chosen the rain gauged stations with registered more obvious annual extreme values in the West zone during the 1970 and 2000. The most extremely rainy years were the 1970 and 1999 with bigger deviations than 30%, years in which there were registered quantities that exceeded very much the multiannual values. At the Costeiu de Sus rain gauge station in 1970 there were registered a quantity of 1692 mm with 119 % more than the multiannual average of 772 mm. Big rainfalls quantities were recorded in 1999 when at more stations, there were exceeded 1000 mm: at Resita 1109 mm (42 % over the multiannual average), Toplet 1002 mm (50 %), Tirol 1130 (64 %). During the warm seasons, the IV-X months, the biggest quantities were recorded in 1974 and 1975, 47% from the total and more stations. In 1974, in the mountains the maximum quantities varied between 1418 mm at Cuntu and 1043 mm at Poiana Marului. At hills at Borlova there were 1318.1 mm and at the fields, in Periam there were 561 mm in 1991 and 562 mm at Beba Veche in 1974. In the cold period (the XI-III months) the maximum values were registered in 1970-but in the mountains the biggest value was registered in 1979 at Rusca Montana, 1091 mm. In 1972 and 1974 autumns proved to be the most rainy during the 1970-2000 period, at most stations. The values included between 181 mm at Jimbolia and 491 mm at Rusca Montana, the registered quantities in 1981-1980. So there was ascertained that there were no very big differences between the maximum recorded quantities at the observation stations.

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