

Snow Water Equivalent Measurements in Mountains of northwestern Slovenia

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Precipitation variability in mountainous regions of northwestern Slovenia is much bigger, than it is possible to conclude from data of a few meteorological stations in this area. There are big differences between windy sides, lee sides and the valleys. During winter, when snow precipitation prevails, snow accumulates on ground as snow cover, which enables us to see the variability of precipitation on small scale. Results of researching snow cover give us results of density, water equivalent and loads of snow in these areas which are essential data for hydrological modeling in mountainous areas. Data of researches are quite different from data which are measured on meteorological stations in the mountainous areas, which leads us to the new insight to precipitation and hydrological processes in these areas. We made several measuring campaigns in period 2004-2006 along the Bohinj ridge, Fužina plateau and Upper Sava valley.