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Applications of Meteorology
High resolution meteorology
- applications and services

Spatial analysis of Snow Watar Equivalent (SWE) using Multi Weighted Linear Regression (MWLR) in Czech Republic

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The poster describe new method called Multi Weighted Linear Regression (MWLR) which we want to use for spatial analysis of Snow Water Equivalent in the Czech Republic.MWRL is based on localized linear regression (SWE and sea level) between neighbouring meteorological stations. The neighbouring stations are selected according to their terrain parameters like altitude, aspect, vertical and horizontal distance from target grid point. The quality of estimation MWLR method was tested by objective cross validation method with about 50 control points. MWLR method was compared by cross validation techniques with standard interpolation methods like IDW, Spline and Kriging.
MWLR is still developing method and poster describe current status and current results.