



H-SAF Products Validation in Poland

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Heavy and prolong precipitation proved to be a main cause of local floods and landslides in Poland. Therefore its monitoring is a very important element of early warning systems working in Poland. Alongside radar information, satellite datasets are crucial source of information on precipitation temporal and spatial distribution, however, its application to operational meteorology and hydrology require subsequent uncertainty estimation.

Provision of quality satellite precipitation products in near real time mode for use in operational hydrology is aimed by EUMETSAT Satellite Application Facility in Support to Operational Hydrology and Water Management (H-SAF). Among them, the new version of PR-OBS-1, PR-OBS-2, PR-OBS-3 and PR-OBS-5 products have been available since 2010 for cooperating teams for detailed validation.

In the presentation, the quality of mentioned above H-SAF precipitation products in precipitation detection and estimation is analysed for the period of 2009-2010. The analysis was performed using data from Polish automatic rain gauges network which consists of 430 posts located all over the country. The quality of the satellite products was studied using continuous and categorical statistical parameters within appropriate precipitation classes. Finally, the temporal variability of precipitation obtained from ground measurements and satellite data will be presented and discussed.