Example Effects of the Preliminary Cal/Val Campaigns in Poland
Polesie, Szymbark

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Among several Cal/Val campaigns in Poland, the project SWEX provides - a) a pair of inter-related campaigns POLESIE (wetland) - PODLASIE (dry land), and - b) the BESKID NISKI (small catchment in Carpathian Mountains) at Szymbark. Two of them are presented below.

POLESIE wetland

The Elevation and Hydrographic context of the AO-3275 test sites in the campaign POLESIE WETLANDS.

Sampling grid determination

Box-like

Transect-like

TDR measurements are performed on the scales of a commonal and the medium and large fields.

The Elevation and Hydrographic context of the AO-3275 test sites in the campaign BESKID NISKI - IGiPZ Szymbark.

BESKID NISKI - Bystrzanka catchment

Meteor garden at IGiPZ Szymbark

Inter-layer soil flow test stand at IGiPZ Szymbark

The stand for Rain-fall to the ground and Rain-run on slopes.
The left down corner inset serves as an example for extensive generalization of the image, by incoherent multi-looking (MK16 in PolSARpro). Details of boundaries are lost in averaging.

The classes from Wishart’s classification have detailed patterns of boundaries. Even the speckle filters do not lose details of the boundaries as it is due to averaging.

The data logger and software were designed and developed at SRC PAS, Warsaw, for the MUPUS spin-off program EXTASE, conducted by IFP-WWW Muenster. The instrument was also employed for the program PERMAFROST by Norbert Koenneke, IWF, Graz, in his cooperation to CASERI1, Lanzhou, China.

The same delay LAG=4sec, does not match the delay in other type of soil media.

The TP probe scheme and principle

The TP probe was designed and developed by SRC PAS, Warsaw, for German experiment MUPUS (in the ESA Mission Rosetta), conducted by Tilman Spohn, DLR Berlin, and for the spin-off program EXTASE, conducted by T. Spohn at IFP, WWU Muenster.

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