The EUMETSAT Network of Satellite Application Facilities H SAF Support to Operational Hydrology and Water Management	**H-SAF CASE STUDY**		
Product Name	**H10 – SN-OBS-01**	**Validation Institute**	**BfG**
Case Study Period	**26-01-2010**	**Case Study Geographical Area**	**Germany**

METEREOLOGICAL EVENT DESCRIPTION

As case study was chosen the whole area of Germany for 26th January 2010.

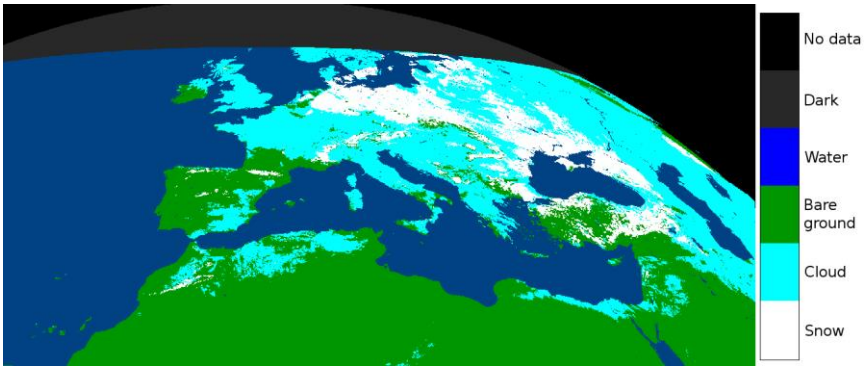

Figure: H10 product time stamp 26th January 2010

DATA/PRODUCTS USED

From German Weather service snow cover [cm] is provided for 2024 stations for period October 2009-September 2010. Table below shows the different available stations.

Station Type	Flat are	Mountain area	Total
Climatic	461	0	461
Precipitation	1402	161	1563

Table: Snow stations available for validation in Germany

RESULT OF COMPARISON

The table below shows the results of categorical statistic. From observation data points the snow (snow cover>=2 cm) /no snow information was taken for comparison. The probability of detection was about 0.9, the false alarm rate about 0.14. The accuracy (critical success index) also was very good with 0.84, which means that most of snow predictions were observed.

val_points	8500
BIAS	1.13
HSS	0.844
HSS2	0.117
POD	0.974
FAR	0.138
POFD	0.893
ACC	0.844
TS	0.842

Table: Results of the categorical statistic

CONCLUSION
A very good probability of detection with very small false alarm rate shows, that H10 product in thisase has good performance. On the other side in many of cases H10 produces no valid data because of clouds.