



Rainfall intensities and patterns derived from MSG SEVIRI-data

M. Schulz and F.H. Berger

DWD - Meteorologisches Observatorium Lindenberg - Richard-Aßmann-Observatorium, Forschung und Entwicklung,
Tauche, Germany (Melanie.Schulz@dwd.de)

Different rainfall retrieval algorithms has been applied to MSG SEVIRI-data. From this it follows a modified retrieval technique adapted to the midlatitudinal weather conditions. It includes the following capacities: a cloud top temperature based rainfall assignment resulting from a statistical comparison between the temperatures in the 10.8 micrometer IR-chanel and the radar data of the German Weather Service, the possibility of shifting the corresponding regression function in dependency of the topical tropopause temperature and a limitation of rainfall patterns based on microphysical cloud properties. First validation results are available. Additionally a quality field is in development.