



Half-hourly physically-morphed global precipitation estimates

F.J. Tapiador (1), M. A. Martínez (2), C. Gonzalo (3), E. Salgado (1) and A. Mateos (1)

1. Institute of Environmental Sciences (ICAM), University of Castilla-La Mancha, UCLM. Toledo, Spain. francisco.tapiador@uclm.es
2. Instituto Nacional de Meteorología (INM). Madrid. mig@inm.es
3. Universidad Politecnica de Madrid (UPM). Madrid. chelo@fi.upm.es

We present a system for generating physically-morphed satellite precipitation estimates from pre-existing high-quality estimates. We show a description of the system which is aimed to increase the temporal resolution of the measurements. The method is applicable to any satellite estimate method, so it could be applied to IR, MW or blended products. Within the framework of the Global Precipitation Mission (GPM) we discuss the capabilities, features, limitations and products of this system, which a special emphasis in those topics related with natural hazards monitoring and assessment.