

Author: H SAF soil moisture and validation clusters

The demonstration session gives an overview of the Python scripts developed to operate on H SAF soil moisture data, which are available on GitHub. H SAF surface and root-zone soil moisture (SM) products are comprised of either Near Real-Time (NRT), Offline or Climate Data Records (CDR), which are freely available at the H SAF data portal. The root-zone products are generated from assimilating the ASCAT-derived surface SM in the ECMWF/H SAF land data assimilation system. Examples for the visualization of SM maps and time series are presented. Additionally, an application of the exponential filter (SWI) for obtaining root-zone soil moisture estimates from surface soil moisture and the computation of SM anomalies for drought monitoring will be showed.