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H SAF root-zone soil moisture products from ASCAT assimilation

The European Centre for Medium Range Weather Forecasts (ECMWF) delivers the core root-zone soil moisture (SM) products for H SAF through an advanced land data assimilation system, running independently of the NWP system. Space borne scatterometer-derived surface SM observations from the ASCAT sensors are assimilated into the root-zone (0-1 m) SM of the H-TESSEL land surface model. Two products are currently operational: (i) A global near-real-time (NRT) product is delivered at 25 km resolution with a timeliness of 36 hours (ii) A reanalysis version covering the scatterometer data record (1992-2016).

A new NRT product has been pre-operational since 2018 and benefits from an optimized production suite, ena

Which session would you like to present in?

1. Remote sensing, hydrological modelling and data assimilation

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Track Classification: H SAF and HEPEX joint workshop on "Satellite inspired hydrology for an uncertain future"