
Validation Remotely Sensed Soil Moisture Observations

large scale measurements of soil moisture for validation ... - results indicate that the in situ network will be a good resource for long-term calibration of remotely sensed soil moisture and provide a new and unique source for future satellite product validation. **validation of remotely-sensed evapotranspiration and ndwi ...** - validation of remotely-sensed evapotranspiration and ndwi using ground measurements at riverlands, south africa ... soil moisture and et have a significant impact on the energy, carbon and water cycles. et is unique in that it provides the link between the energy and water cycles at the land surface as well as between the water and carbon cycle through vegetation transpiration. soil water ... **mapping root zone soil moisture using remotely sensed ...** - mapping root zone soil moisture using remotely sensed optical imagery christopher a. scott1; wim g. m ... this paper presents and validates a new method based on land surface energy balances using remotely sensed optical data ~including thermal infrared!, which allows field and landscape-scale mapping of soil moisture depth-averaged through the root zone of existing vegetation. root zone ... **remote sensing of environment - icdc.cen.uni-hamburg** - and large-scale remotely sensed soil moisture products of the tibetan plateau are very crucial for understanding the land-atmosphere interactions of this region and their effects on the climate of eastern and **uncertainty characterisation in remotely sensed soil moisture** - uncertainty characterisation in remotely sensed soil moisture **can assimilating remotely-sensed surface soil moisture ...** - remotely-sensed soil moisture products derived from passive microwave sensors are considered relatively reliable but are limited by large spatial scale (>10 km) and shallow sensing depth in the soil (~1-2cm). this poses a problem when aiming to constrain a model's root zone moisture with remote sensing over spatial regions - the impact from assimilating a surface observation must be able ... **technical memorandum - ecmwf** - evaluation of two remotely sensed surface soil moisture data sets, ascat and smos using in situ observations from more than 200 stations across the world (australia, africa, america and europe) for the 2010 period. **calibration of land surface model using remotely sensed ...** - soil maps, remotely sensed vegetation, land surface map, etc. in this paper, an attempt has been made to in this paper, an attempt has been made to calibrate a grid based land surface model using remotely sensed evapotranspiration and soil moisture data to **soil moisture remote sensing: state-of-the-science** - of remotely sensed soil moisture products has been ongoing using core monitoring sites, sparse monitoring networks, intensive field campaigns, as well as multi-satellite comparison studies. **investigating the upscaling of in situ soil moisture ...** - against a remotely sensed estimate (zhao et al., 2013). soil moisture has high variability over small scales (