

Dataset type	Description	Reference
LPRM AMSR-E SM	The Land Parameter Retrieval Model (LPRM)'s Advanced Microwave Scanning Radiometer-Earth Observing System (AMSR-E) soil moisture retrievals.	Owe et al. (2008)
WindSat SM	WindSat passive microwave soil moisture	Li et al. (2010)
TUW ASCAT SM	ESA's Advanced Scatterometer (ASCAT) soil moisture, processed at Technische Universität Wien, Austria.	Bartalis et al. (2008)
SMOS SM	ESA's Soil Moisture Ocean Salinity (SMOS) dataset	Kerr et al. (2001)
GCOM-W AMSR2 SM	Global Change Observation Mission (GCOM) AMSR version 2 soil moisture	Wentz et al. (2014)
SMAP SM	NASA's Soil Moisture Active-Passive (SMAP) level 3 products.	Entekhabi et al. (2014)
SMOPS SM	NOAA's Soil Moisture Operational Product Systems (SMOPS) includes several soil moisture datasets: AMSR2, SMOS, and ASCAT	Liu et al. (2016)
ESA's CCI ECV active+passive SM	ESA's Climate Change Initiative (CCI) essential climate variable (ECV) blended active/passive microwave SM	Liu et al. (2011)
GRACE TWS	NASA's Gravity Recovery and Climate Experiment (GRACE) TWS anomaly dataset	Tapley et al. (2004)
GCOMW AMSR2 SNWD	AMSR2 passive microwave snow depth retrievals	Wentz et al. (2014)
LIS LSM model output	LIS land surface model output fields (e.g., soil moisture)	Kumar et al. (2008a, b)