

Soil Moisture — Dataset References (Citation Backbone)

Domain: Soil Moisture

Track: C → D (metadata-only references supporting Track D notes)

Status: ACTIVE (reviewer-safe)

A) Satellite Mission Source — ESA SMOS (Soil Moisture & Ocean Salinity)

Entity: SMOS mission (ESA Earth Explorer / Living Planet Programme)

Role in SAL:

Primary European satellite mission dedicated to global observations of soil moisture over land (and ocean salinity).

Primary authoritative sources: - European Space Agency (ESA) — *SMOS Mission Overview*

<https://earth.esa.int/eogateway/missions/smos> - ESA Earth Online — *SMOS: Soil Moisture and Ocean Salinity*

<https://earth.esa.int/eogateway/missions/smos/description>

B) SMOS Science Products — Level 1 / Level 2

Entity: SMOS Science Products Catalogue (L1 / L2)

Role in SAL:

Reference for the official SMOS soil moisture product family and retrieval documentation.

Primary authoritative source: - ESA Earth Online — *SMOS Products and Algorithms*

<https://earth.esa.int/eogateway/catalog/smos-products>

C) Copernicus Climate Change Service (C3S) — Soil Moisture

Entity: Copernicus Climate Change Service (C3S)

Role in SAL:

Service-level documentation describing soil moisture as a land Essential Climate Variable derived from observations.

Primary authoritative source: - Copernicus C3S — *Soil Moisture (Land Hydrology & Cryosphere)*
<https://climate.copernicus.eu/soil-moisture>

D) Copernicus Land Monitoring Service (CLMS) — Soil Moisture

Entity: Copernicus Land Monitoring Service (CLMS)

Role in SAL:

Product-group description for soil moisture products within the land monitoring portfolio.

Primary authoritative source: - CLMS — *Soil Moisture Products Overview*
<https://land.copernicus.eu/global/products/soil-moisture>

E) In-situ Reference Class — International Soil Moisture Network (ISMN)

Entity: International Soil Moisture Network (ISMN)

Role in SAL:

Example in-situ soil moisture reference network used for calibration and validation in Copernicus and ESA contexts.

Primary authoritative source: - ISMN — *International Soil Moisture Network*
<https://ismn.earth>

SAL Governance Notes

- This file contains **descriptive references only**.
- No modeling, forecasting, yield inference, or decision support is implied.
- Track D knowledge notes may cite these sources where relevant.