A Method to Assess the Performance of SAR-derived Surface Soil Moisture Products

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This study brought together existing research data obtained from a number of different sources, some of which were upon request and subject to licence restrictions. Full details of how these data may be obtained are as follows:

LandIS (NATMAP Soil map of England and Wales, and HORIZON Hydraulics and Fundamentals data)

## Format

* NATMAP - Vector format (Shapefile)
* HORIZON Data – Excel spreadsheet

## Access

Arrangements for access to soil data are governed by an agreement between Cranfield University and DEFRA acting on behalf of the Crown. Under the LandIS Agreement:

* Data are only ever licensed (i.e. not sold) for use over a specified period;
* Departments of the Crown and their contractors are entitled to royalty-free data for specified applications, and therefore only pay an administrative fee to cover the cost of extraction and administration;
* Bona fide researchers are entitled to data on a similar basis;
* Cranfield is entitled to charge all other individuals and groups, including the Executive Agencies, an additional royalty fee to reflect the value of the information. Royalty fees are calculated using a set of standardised charging formulae that apply progressive discounts on base rates for larger volumes of data.

Data are normally supplied via an online drop-off service in an agreed format. To find out which datasets we lease, look at our [data families description](http://www.landis.org.uk/data/datafamilies.cfm), or alternatively run our handy [data quotation advisor](http://www.landis.org.uk/data/pricer.cfm) utility.

Our standard [data licence Terms and Conditions](http://www.landis.org.uk/data/downloads/LandIS_Terms_and_Conditions_2009.pdf) are available for inspection.

For further information regarding leasing digital datasets from LandIS, for a soils data quotation, or for further information, please contact us as below:

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# COSMOS UK Data

## Format

* Daily and sub-daily hydrometeorological and soil data (2013-2018) - Comma-separated values (CSV)
* Phenocam data – JPG images
* Site metadata – Comma-separated values (CSV)

## Access

[This dataset is available under the terms of the Open Government Licence](https://eidc.ceh.ac.uk/licences/OGL/plain)

Site metadata is available publicly on the following we page <https://cosmos.ceh.ac.uk/sites> .

Daily and sub-daily hydrometeorological and soil data (2013-2018) is available from the NERC Environmental Information Data Centre at DOI: <https://doi.org/10.5285/37702a54-b7a4-40ff-b62e-d14b161b69ca>

Requests for the phenocam images will be considered on a case-by-case basis; please download the [File Data Request Form](http://cosmos.ceh.ac.uk/sites/default/files/COSMOS-UK%20request%20for%20data%20form.docx) and send completed copies via email to cosmosuk@ceh.ac.uk .

# MODIS Leaf Area Index data (MCD15A3H V6 level 4)

This data is publicly available at the following DOI: <https://doi.org/10.5067/MODIS/MCD15A3H.006>

The dataset is also accessible via the Google Earth Engine Data Catalog (registration required).

# Copernicus SSM Surface Soil Moisture: 1km V1

This data is publicly available at the following website <https://land.copernicus.eu/global/products/ssm>