

NL-FOOD SECURITY ALLIANCE



VANDERSAT - SATELLITE OBSERVED WATER DATA.
GLOBALLY. DAILY

SERVICES

- Soil moisture monitoring
- Land temperature monitoring
- Plant water content monitoring
- Inundation monitoring

Key input for the water and agricultural sector, with a strong emphasis on food security and water safety.

SATELLITE OBSERVED WATER DATA

VanderSat is a leading global provider of satellite observed water, temperature and vegetation data products. From small farmers to multinationals: we understand the crucial role water plays.

By combining microwave data obtained from different satellites VanderSat is revealing a revolutionary data set that is global, daily and has unmatched accuracy.



SATELLITE OBSERVED WATER DATA

Drought application

VanderSat soil moisture, surface temperature and vegetation water content data are key drought indicators.

Combining these in the VanderSat drought index provides an **optimal predictive skill for crop growth**.

Crop yield application

VanderSat Drought Index strongly correlates with crop yield and can predict yield up to 2 months.

"The VanderSat data service is fully operational and near real time. As such, it is possible to warn farmers when a drought builds up, giving them a chance to react".

– Hans Feyen, head of Agriculture Reinsurance and Innovation at Swiss Re.

Our technology is extensively validated and documented in scientific peer-reviewed literature.

Similar accuracy as ground sensors is found for our data. With better spatial representation and consistency.

Clients & Partners

Selection:

- **NGO's:** 510 Red Cross, ICCO
- **Agriculture:** Verstegen Spices & Sauces B.V., Tongaat Hullet
- **Insurance:** Swiss Re, ACRE Africa, and fintech Rabobank
- **Water:** Dutch Water Authorities, European Commission

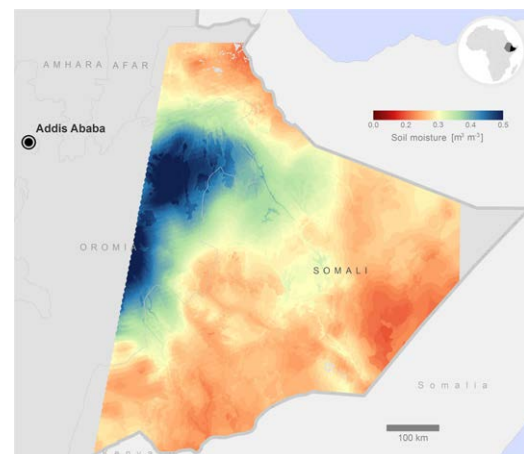
VanderSat data

The patented methodology of VanderSat provides multiple data services at unprecedented resolution:

- Soil moisture 100 x 100 meter
- Land temperature 100 x 100 meter
- Vegetation water content 100 x 100 meter
- Inundation 10 x 10 meter

Key features:

- Coverage: Global
- Frequency: Daily
- Availability: 2002 - present
- Cloud and darkness proof



Detailed information on the current soil moisture status could lead to more precise flood and drought forecasting – especially in countries with a sparse ground sensor network”, says Stefania Giardini, Team Lead of Red Cross’s 510 data initiative.

NL-FSA

The NL-Food Security Alliance (NL-FSA) is a network of mainly Dutch companies and institutions developing exclusive and sustainable solutions in the agri-water-food-business.

NL-FSA Is a Royal Eijkelpark initiative



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