

Sentinel-2 Data set for Uganda

SND-ID: 2021-50-1. **Version:** 1. **DOI:** <https://doi.org/10.5878/bc12-w579>

Associated documentation

Readme.pdf (436.77 KB)

Citation

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Creator/Principal investigator(s)

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Description

Optical top of the atmosphere reflectance data from the Earth resource satellite Sentinel-2 for Uganda (2018-2020) was downloaded and processed in a systematic way to bottom of the atmosphere reflectance with the open software FORCE (Framework for Operational Radiometric Correction for Environmental monitoring, see <https://force-eo.readthedocs.io/en/latest/>). For each year (2018-2020), the number of clear sky observations were calculated and a best available pixel mosaic were created. For each quarter (12 in total), for two vegetation indices (EVI = Enhanced Vegetation Index and NDVI = Normalized Difference Vegetation Index) a number of relevant measures were calculated (minimum, maximum, mean, standard deviation, 5%, 50% (median) and 95% quantiles). The data have 10-meter spatial resolution and are stored in GeoTIFF format.

Data are suitable for studies of vegetation and vegetation changes. More information and details in article published in Data (<https://www.mdpi.com/journal/data>), 'submitted' 2021-02-15

Data contains personal data

No

Language

[English](#)

Time period(s) investigated

2018-01-01 – 2020-12-31

Data format / data structure

[Geospatial](#)

Geographic spread

Geographic location: [Uganda](#)

Geographic description: Uganda

Responsible department/unit

Funding 1

- Funding agency: Sweden's government agency for development cooperation
- Funding agency's reference number: 303

Funding 2

- Funding agency: Lund University, Faculty of Science
- Funding agency's reference number: Infrastrukturmedel, Dnr V 2015/2152

Research area

[Earth and related environmental sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Physical geography](#) (Standard för svensk indelning av forskningsämnen 2011)

[Imagery / base maps / earth cover](#) (INSPIRE topic categories)

Keywords

[Land surface](#), [Reflectance](#), [Passive remote sensing system](#), [Remote sensing data](#), [Earth observation data](#)

Polygon (Lon/Lat)

29.421421341646, 4.5654735507103

29.421421341646, -1.5379012374315

35.1123046875, -1.5379012374315

35.1123046875, 4.5654735507103

29.421421341646, 4.5654735507103

Accessibility level

Access to data through SND

Access to data is restricted

Use of data

[Things to consider when using data shared through SND](#)

License

[CC BY 4.0](#)

Versions

Version 1. 2021-03-29

Contact for questions about the data

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Download metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

[Citation \(CSL\)](#)

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