



Digital Earth
AFRICA

Digital Earth Africa Platforms

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Digital Earth Africa

- Transforming Earth Observation Data into Insights for Africa's Sustainable Growth
- >60 spatial datasets
 - Satellites - optical, radar, thermal
 - Digital Elevation Models
 - Derived products - geomedians, NDVI
 - Continental services - coastlines, waterbodies
- Platforms
 - Maps
 - Sandbox
 - Explorer
 - Africa GeoPortal
 - Direct access

Maps

- What it is:
 - Point and click platform for visualisation of spatial data
- What it can do:
 - Comparison i.e. left - right, before - after
 - Change detection - differencing
 - Story maps
 - Export .pngs
 - Upload .shps
 - Download data for points in table format
- <https://maps.digitalearth.africa/>

Sandbox

- What it is:
 - Cloud-based computational platform that operates through a Jupyter Lab environment
- What it can do:
 - Access the Digital Earth Africa Open Data Cube and load spatial data
 - Visualise and analyse spatial data in Python
 - Export a range of outputs: images, animations, GeoTIFFs
- Currently under technical review

Explorer

- What it is:
 - A catalogue of data items available through Digital Earth Africa
- What it can do:
 - Show data availability in time and space
 - Display data attributes and metadata
 - Preview and download GeoTIFF files for analysis elsewhere
- <https://explorer.digitalearth.africa/>

Africa GeoPortal

- What it is:
 - Esri portal for interacting with DE Africa data
- What it can do:
 - Show data availability in time and space
 - Display data attributes and metadata
 - Preview and download GeoTIFF files for analysis elsewhere
- deafrica.africageoportal.com

Direct Access

- What it is:
 - Directly querying Digital Earth Africa data with an API or other means
- What it can do:
 - Integrate DE Africa data with other data
 - Analyse DE Africa data in several languages (R & Python)
 - Access DE Africa data in a range of environments
- <https://github.com/digitalearthafrika/deafrica-direct-access>

General info

- Information on all the datasets and platforms is available on the DE Africa Use Guide
- <https://docs.digitalearthafrika.org/en/latest/>

Acknowledgements



THANK YOU

