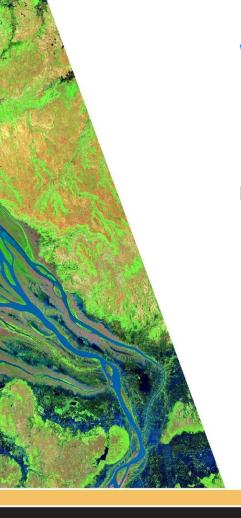




Digital Earth Africa 6-Week Training Course

Week 2: Satellite products

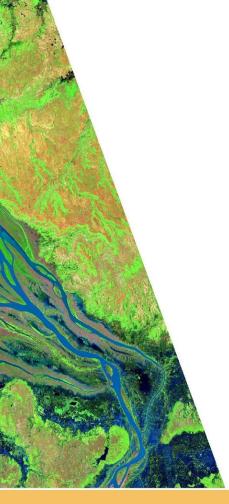


What is a product?

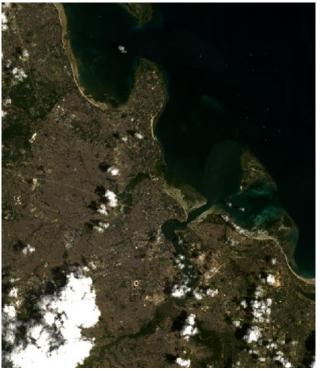
 A product is a comprehensive dataset of Earth observations over a region for a given time period

Key attributes:

- Data type
 - e.g. Surface reflectance
- Pixel size (spatial resolution)
 - e.g. 30 m x 30 m pixels
- Revisit time (temporal resolution)
 - e.g. One flyover every 16 days
- No. of spectral bands (spectral resolution)
 - o e.g. 7
- Data timespan
 - e.g. Data collected from 2017 onwards



Landsat 8 product



Sandbox alias:

ls8_usgs_sr_scene

Available region:

Tanzania, Senegal, Sierra Leone, Ghana, Kenya

Data type:

Surface reflectance

Pixel size:

30 m x 30 m

Revisit time:

16 days

No. of spectral bands:

7

Data timespan:

March 2013 – December 2019



Sentinel-2 product



Sandbox alias:

s2_l2a

Available region:

All of Africa

Data type:

Surface reflectance

Pixel size:

10 m x 10 m - 60 m x 60 m

Revisit time:

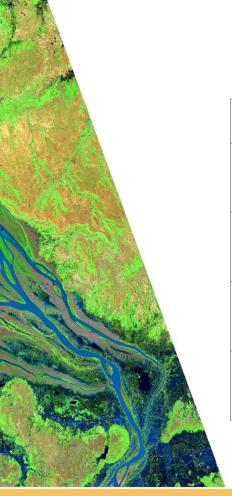
5 days

No. of spectral bands:

12

Data timespan:

July 2017 – present



Which product is best?

Analysis type	Landsat 8	Sentinel-2
Short-term change (over several months)	×	V
Long-term change (years to decades)	+ Landsat 5/7	×
Continent-wide	×	V
More detail (higher resolution)	×	V

Getting help

GitHub wiki:

github.com/digitalearthafrica/deafrica-sandbox-notebooks

Slack: opendatacube.slack.com/

Edward Boamah

Technical Manager

E: edward.boamah@digitalearthafrica.org

Kenneth Mubea, PhD

User Engagement Manager

E: kenneth.mubea@digitalearthafrica.org

