









EO for Africa Symposium 2024

23 - 26 September 2024 ESA | ESRIN, Frascati (IT)



Copernicus Land Monitoring Service















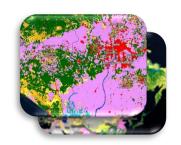






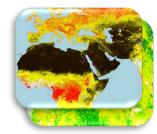
Land **Monitoring**

Global Land Cover 2015-16-17-18-19-24



Cryosphere

Vegetation



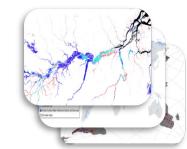
FAPAR 2016 - present NDVI 2020 - present LAI 2014 – present

Energy



Soil Water Index 2007 - present **Surface Soil Moisture** 2014-present **Land Surface Temperature** 2021 - present

Water



Water Bodies 2020 - present Lake turbidity 2019 - present Lake surface water temperature 2016 - present

Snow Cover Extent 2018 - present **Snow Water Equivalent 2008-present**

Global Image Mosaic S2GM 2017-present



Hot Spot Monitoring



Copernicus4GEOGLAM - agriculture **HSM** – biodiversity

Reference & Validation



GBOV 2013 - present

Land Surface Categorisation Land Cover Characterisation Land Cover mapping Scheme to map physical Feature extraction Basic land surface coverage of the earth surface (Including temporal and properties objectively according to a-priori defined spatial contextual aspects) measured classes Ancillary data Assignment criteria (respectively for distinct land cover mapping) Training data Basic land Relevant pixel features 10m land (sudden change: alert surface layers cover labelling OUTPUT Start-middle-end conditions Changes from and maps Etc.) reference 10m Basic lifeforms 100m land cover labelling, maps, fraction layers sub-annual annual Inter-annual