

Potential Geospatial Data Sources

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Please be advised that this is not an exhaustive list. There are numerous excellent and reliable resources available online. However, the list below will provide a starting point. For South African vector and raster data the best option is to use the CDNGI geospatial portal from National Geo-Spatial Information.

Satellite Imagery

Earthdata

URL: <https://search.earthdata.nasa.gov/search>

Account required: yes (free)

Imagery: similar to the USGS Earth Explorer but focused on earth observation

Earthdata Worldview

URL: <https://worldview.earthdata.nasa.gov/>

Account required: no

Imagery: Terra, MODIS

For additional help visit

<https://earthdata.nasa.gov/faq/worldview-gibs-faq#ed-worldview-faq-image-for-gis>.

JAXA ALOS

URL: <https://www.eorc.jaxa.jp/ALOS/en/aw3d30/index.htm>

Account required: yes (free) - register at

<https://www.eorc.jaxa.jp/ALOS/en/aw3d30/registration.htm>

DEM: 30m global DEM

Copernicus Open Access Hub

URL: <https://scihub.copernicus.eu/>

Complete, free and open access to Sentinel-1, Sentinel-2, Sentinel-3 and Sentinel-5P user products, starting from the In-Orbit Commissioning Review (IOCR).

See also: <https://sentinel.esa.int/web/sentinel/sentinel-data-access>

USGS Earth Explorer

URL: <https://earthexplorer.usgs.gov/>

Account required: yes (free)

Imagery: Landsat archive up to Landsat 8, Sentinel 2, IKONOS-2, Orbview-3

DEM: STM 1-arc, GTOPO30, ASTER

Land cover: GLCC

Vector Data

CDNGI geospatial portal (National Geo-Spatial Information)

URL: <http://www.cdngiportal.co.za/cdngiportal>

All datasets available from the Surveyor General of South Africa (raster and vector, vector at 1:50 000 scale)

DIVA-GIS

URL: <https://www.diva-gis.org/gdata>

Account required: no

Data: general data per country

Department of Environmental Affairs EGIS

URL: <https://egis.environment.gov.za/>

Account required: yes (free)

Data: NLC, marine protected areas, protected areas, conservation areas

Department of Water and Sanitation geospatial data

URL: <http://sarva2.dirisa.org/metadata/department-of-water-and-sanitation>

Account required: no

Data: hydrology related

Groundwater data available at: <http://www.dwa.gov.za/Groundwater/data.aspx>

Municipal Demarcation Board

Account required: no

URL: <http://www.demarcation.org.za/site/shapefiles/>

Outlines of municipal boundaries (district, metro, ward, etc.)

Open Data Portal

URL: <https://openup.org.za/tools/dataportal.html>, access the data provision section directly at <https://datahub.io/pi>

Account required: no

Data: a wide range of freely-available datasets

Open Street Map

URL: <https://www.openstreetmap.org/#map=5/-28.676/24.677>

How to download the data: <https://learnosm.org/en/osm-data/getting-data/>

Data: crowdsourced topographic data

SANBI Biodiversity GIS

URL: <http://bgis.sanbi.org/>

Account required: no

Data: biodiversity related data

SA Risk and Vulnerability Atlas

URL: <http://sarva2.dirisa.org/resources/search-data>

Account required: depends, the resource also links to external datasets

Data: anything related to hydrology and vulnerability

UNEP Environmental Data Explorer

URL: <http://geodata.grid.unep.ch>

Account required: no

Data: global/national environmental data

Municipality Data

Most larger municipalities have spatial data available directly for download from their websites or you can make a request.

City of Ekurhuleni: <https://gis.ekurhuleni.gov.za/>

City of Cape Town: <https://web1.capetown.gov.za/web1/OpenDataPortal/>

City of Johannesburg: <https://eservices.joburg.org.za/onlinemaps>

City of Tshwane:

http://www.tshwane.gov.za/sites/about_tshwane/MapsAndGIS/Pages/Maps-And-GIS.aspx

eThekweni: http://gis.durban.gov.za/gis_Website/internetsite/#top

Nelson Mandela Bay Metro: <http://gis.nelsonmandelabay.gov.za/AGSViewerCM/>