

# Luangwa Rift Valley, Zambia

Sentinel-2 MSI acquired on 08 September 2023 at 07:46:21 UTC  
Sentinel-3 SRAL LAND acquired on 09 September 2023 at 07:16:13 UTC  
Sentinel-1 CSAR IW acquired on 11 September 2023 at 03:23:04 UTC  
Sentinel-3 SRAL LAND acquired on 11 September 2023 at 19:40:10 UTC  
Sentinel-1 CSAR IW acquired on 16 September 2023 at 03:31:09 UTC

Author(s): Sentinel Vision team, VisioTerra, France - [svp@visioterra.fr](mailto:svp@visioterra.fr)

Keyword(s): Land, Geology, Rift Valley, Zambia, Africa

[2D Layerstack](#)

Fig. 1 - Africa Geological map - The Luangwa valley is a rift valley, a south-west extension of the east African Rift.

[2D view](#)

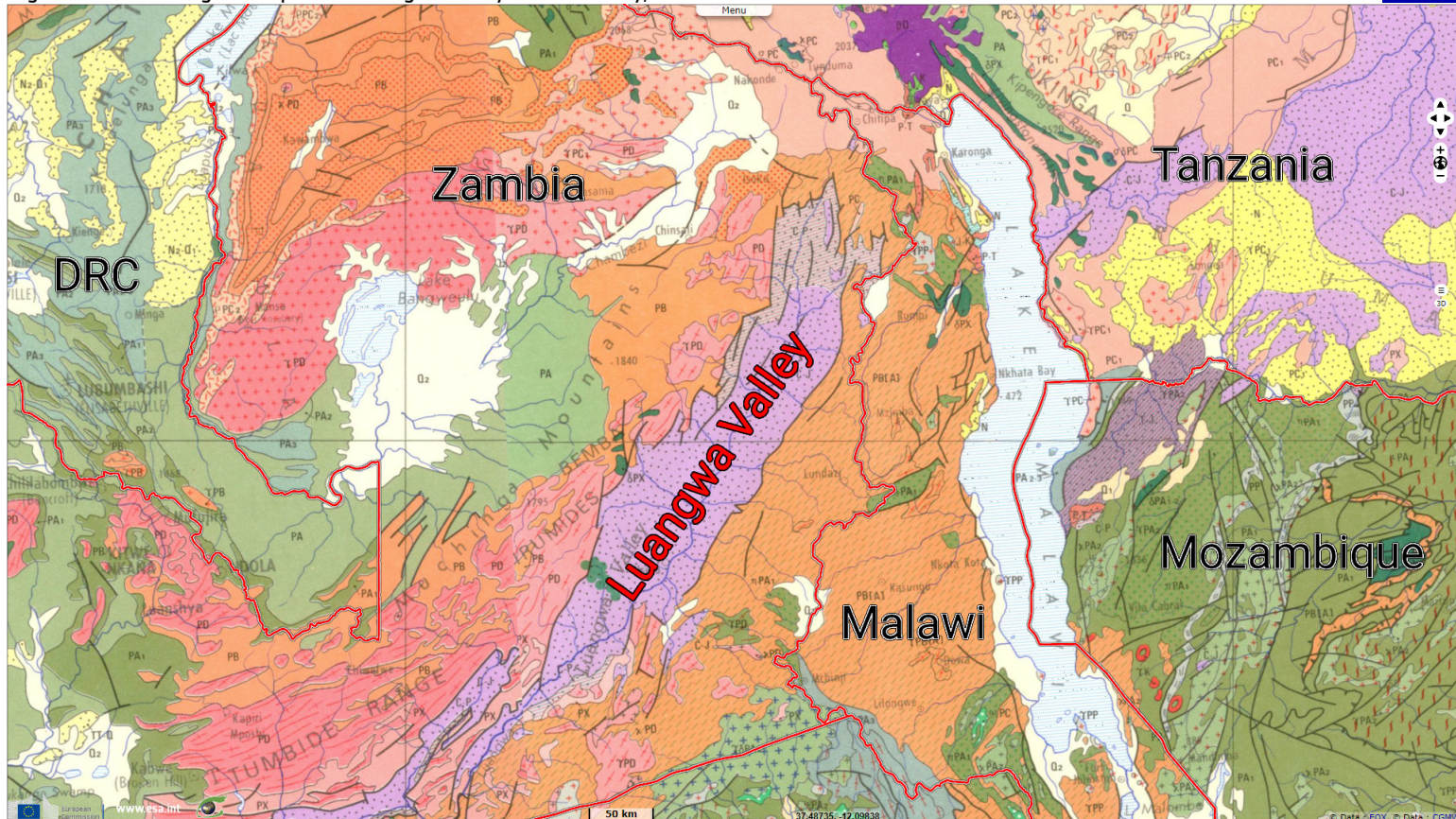


Fig. 2 - S2 (08.09.2023) - Natural & Agriculture - The Luangwa river flows along the valley joining the Zambezi at the south west.

[2D view](#)

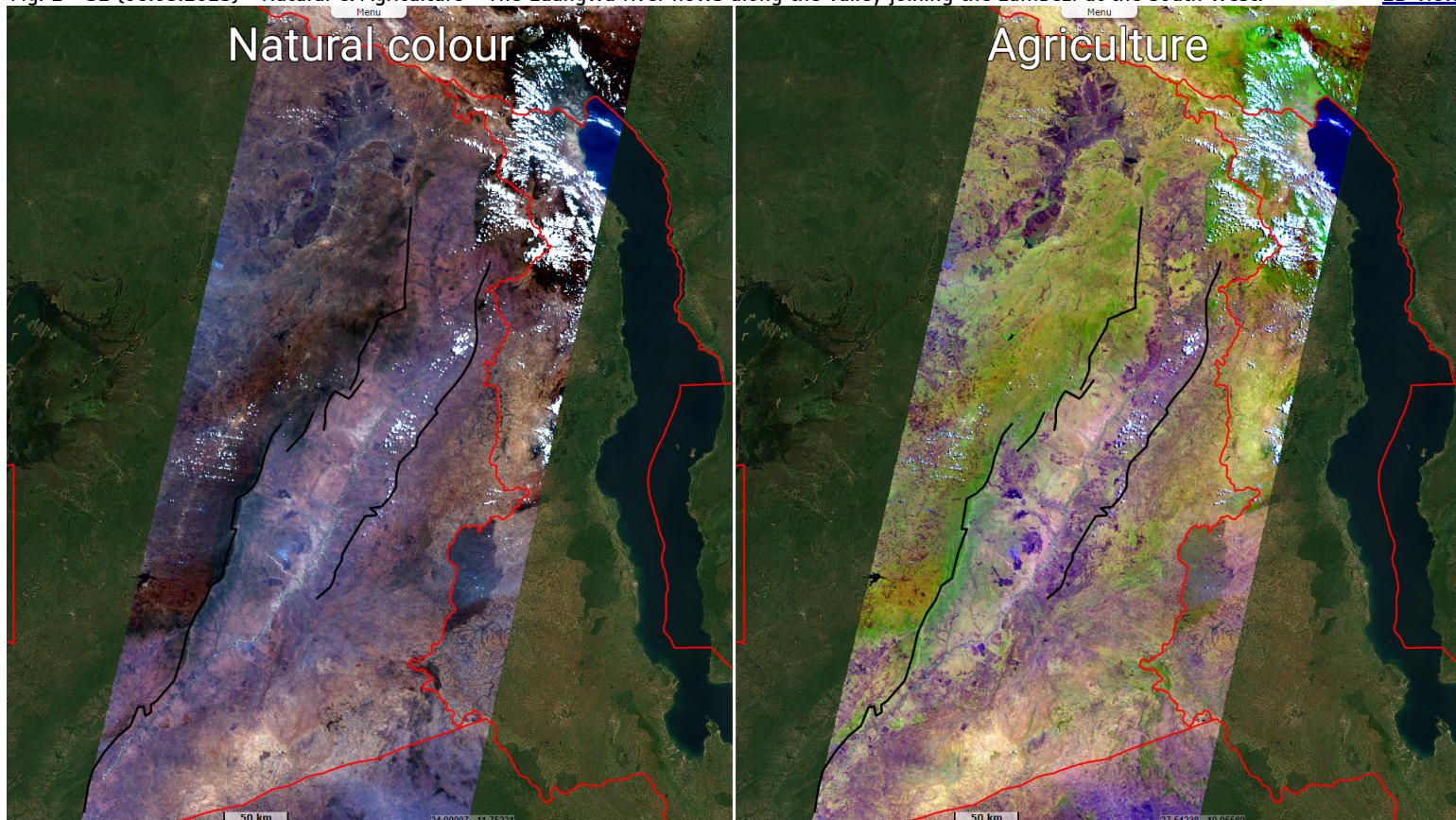


Fig. 3 - S1 (11 & 16.09.2023) - The valley is easily visible in radar images, matching the lines extracted from the geological map.

[2D view](#)

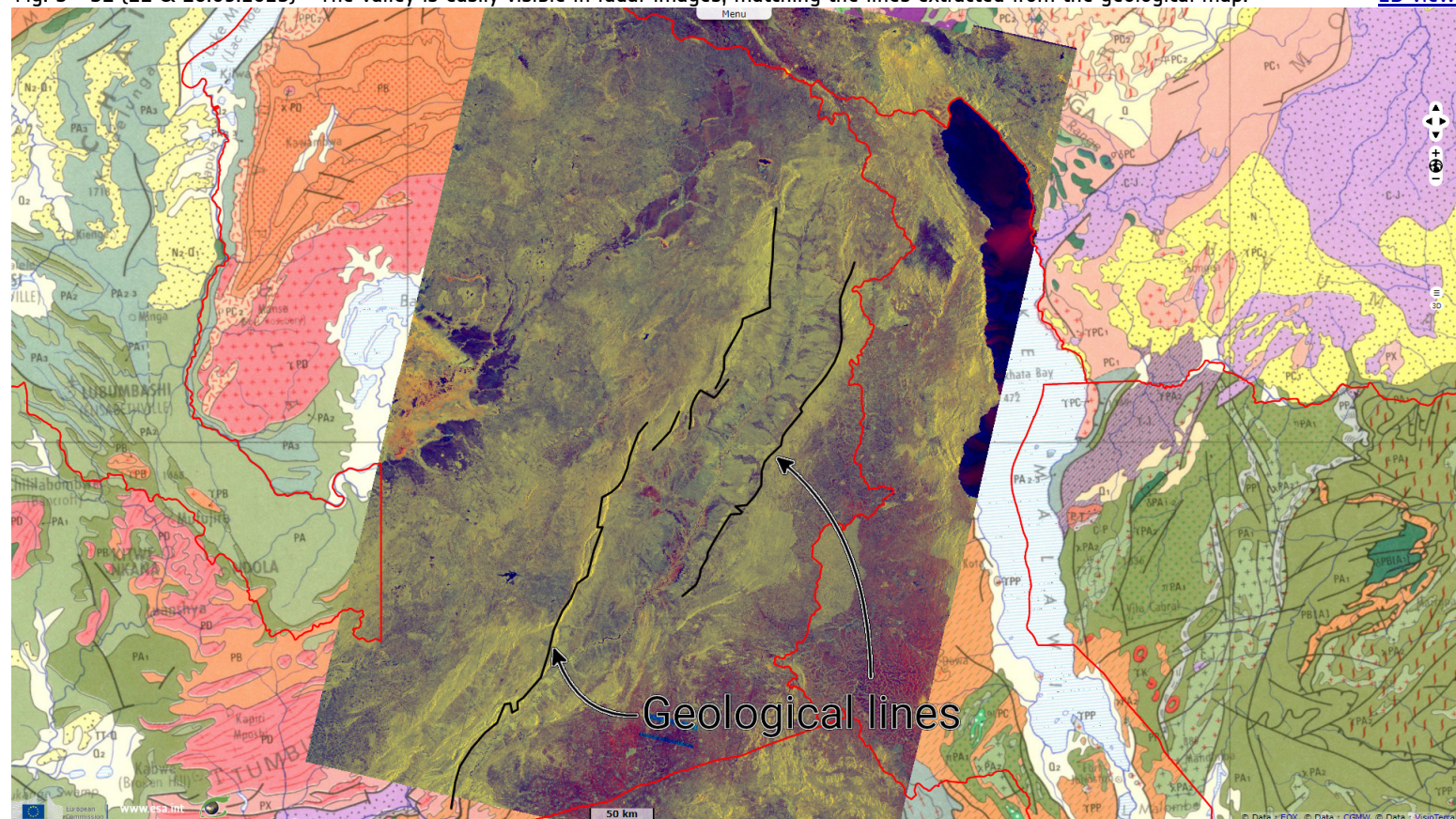
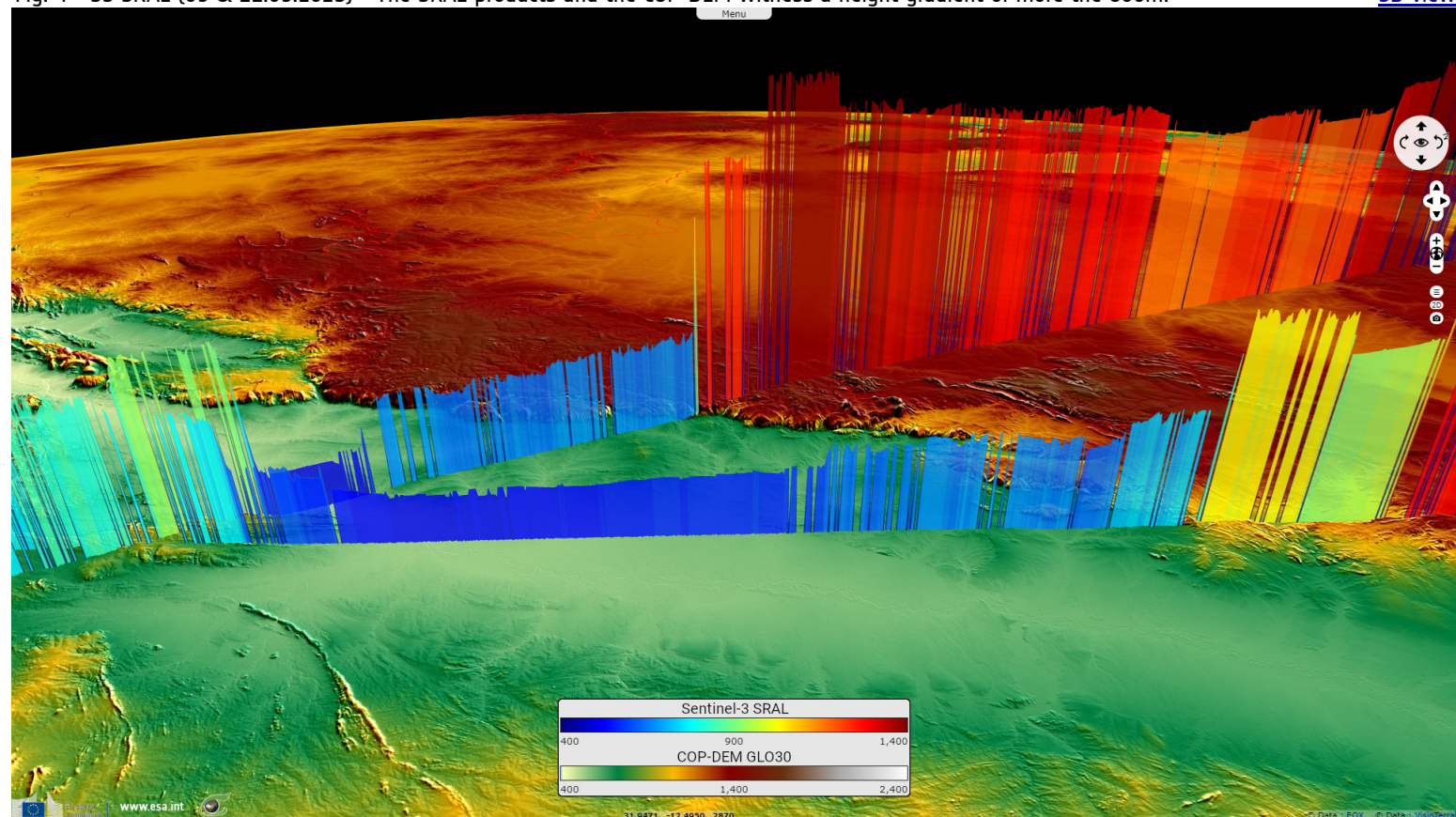


Fig. 4 - S3 SRAL (09 & 11.09.2023) - The SRAL products and the COP-DEM witness a height gradient of more the 800m.

[3D view](#)



*The views expressed herein can in no way be taken to reflect the official opinion of the European Space Agency or the European Union.  
Contains modified Copernicus Sentinel data 2023, processed by VisioTerra.*

|                                    |  |  |  |                                        |                                    |                                   |
|------------------------------------|--|--|--|----------------------------------------|------------------------------------|-----------------------------------|
| More on European Commission space: |  |  |  |                                        |                                    |                                   |
| More on ESA:                       |  |  |  | <a href="#">S-1 website</a>            | <a href="#">S-2 website</a>        | <a href="#">S-3 website</a>       |
| More on Copernicus program:        |  |  |  | <a href="#">SciHub portal</a>          | <a href="#">Cophub portal</a>      | <a href="#">Inthub portal</a>     |
| More on VisioTerra:                |  |  |  | <a href="#">Sentinel Vision Portal</a> | <a href="#">Envisat+ERS portal</a> | <a href="#">Swarm+GOCE portal</a> |
|                                    |  |  |  |                                        | <a href="#">CryoSat portal</a>     |                                   |