LAKE ALBERT

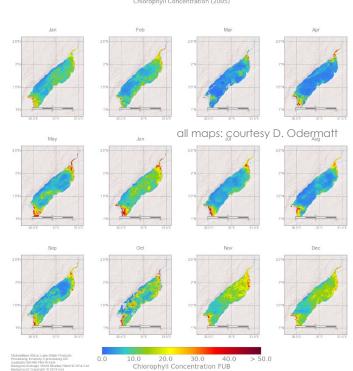
SPOTLIGHT

"There are also several issues and challenges surrounding water resources, which are aggravated by climate change and variability and population growth among others. The current water management practices in Uganda may not be robust to cope with these challenges which impact on water resources and increase water use requirements." | NSUBUGA ET AL., JWRP, 2014 |

WATER QUALITY PRODUCTS

Chlorophyll-a Concentration | MPH

Lake Albert Chlorophyll Concentration (2005)



Description: The monthly averages of the chlorophyll concentration of Lake Albert is shown for 2007. The main part of the Lake shows low concentrations (between 10 and 20 mg/m³), while the northern and southern parts have higher concentrations. It is categorized as mesotrophic to eutrophic (POSTE ET AL. 2015)

















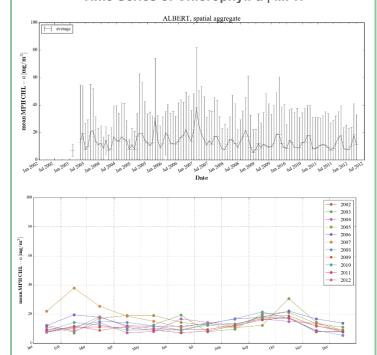




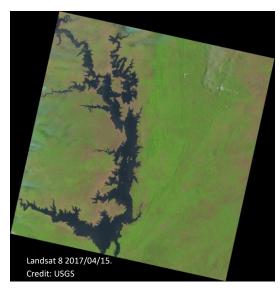


Description: Monthly averages of the total suspended matter concentration indicating the sediment distribution within in the lake. The low concentration indicate that the main lake is characterized by transparent water.

Time Series of Chlorophyll-a | MPH



Description: The time series of the monthly averages of the chlorophyll concentration derived from the whole lake shows concentrations up to 20 mg/m³ with a slightly different year with higher concentrations in 2007.





FURTHER INFORMATION

- There is a considerable lowland area at the northern end of the lake, where the Victoria Nile enters Lake Albert, to leave as the northward-flowing Albert Nile
- The southern end contains an alluvial flat and a papyruschoked delta formed by the Semliki River
- Wild ravines and fine cascades form a conspicuous feature of these geologically young tectonic (fault-formed) landscapes

ECOLOGICAL CONCERNS

- High population growth rate is increasing pressure on land and water resources, leading to increased land use and land use change, catchment and habitat degradation through sedimentation, pollution and eutrophication
- Demand of fish has increased leading to increased over exploitation of fishery
- A dam is being constructed at the inflow of the Victoria Nile at Murchison Fall

REFERENCES

POSTE, A, MUIR, D, GUIDFORD, S, HECKY, R (2015): Bioaccumulation and biomagnification of mercury in African lakes: The importance of trophic status. Science of the Total Environment 506-507 (2015) 126-136

All water quality satellite-derived products shown here have been derived from MERIS sensor onboard of ENVISAT. The product development and processing have been performed within the ESA projects Diversity-2 and Globwetland-Africa.

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