Chlorophyll a, LV, raster, 7/2002 - 2/2021

Reference Information and Units:

GCS: SR-ORG:14
Projection: Data has not been projected.
Pixel Size: ~4 kilometer (km) at the equator, 0.017453295199433
Units: mg m^{-3}

File Naming Convention:

AYYYYDDDYYYYDDD, where A stands for the Aqua sensor platform, the first YYYYDDD represents the collection start year and Julian day, and the second YYYYDDD represents the collection end year and Julian day.

Data Origin:

Original dataset was downloaded from: http://oceandata.sci.gsfc.nasa.gov/MODIS-Aqua/Mapped/Monthly/4 km/chlor_a

Sensor:

MODIS Aqua

Mapped worldwide monthly Modis Aqua 4km chlorophyll (a) concentration was used to develop this product. Data values are averaged over the collection period to create monthly averages

Code:

```
for %A in ("C:\temp \*.nc") do gdal_translate -of GTiff -a_nodata -32767 -sds -a_ullr -180 -90 180 90 -ot FLOAT32 -co COMPRESS=PACKBITS "%A" "%A.tif
```

Data Development/Processing:

Converted TIFF data was validated against the parent NetCDF file for correct cell size and pixel value.
Output TIFFs were flipped. This was remedied via batch flipping in ArcGIS (Flip tool).
The GCS was batch defined in ArcGIS as SR-ORG:14.
Processed data was then batch clipped to Lake Victoria and the surrounding lakes and statistics were calculated.