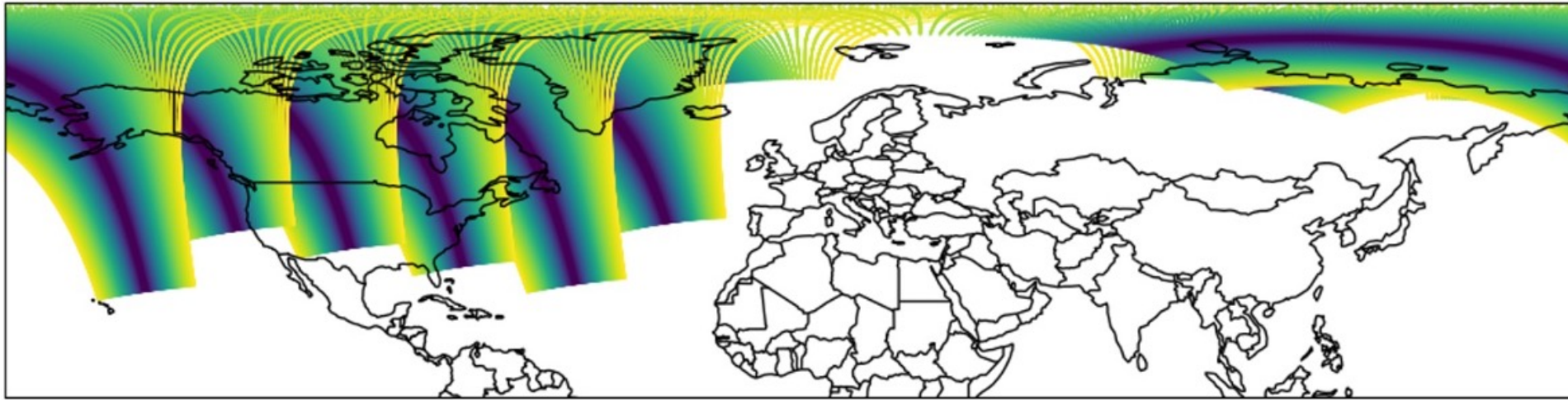
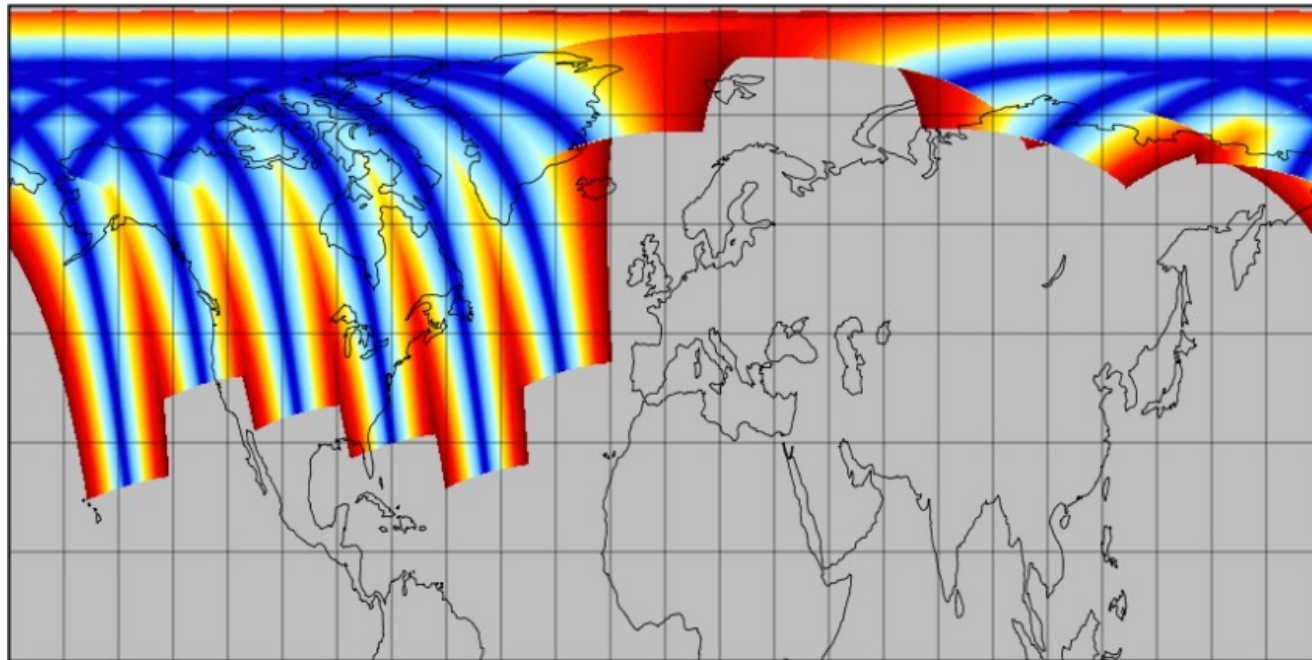


mosaic



Viewing Zenith Angle, Cell to Viewing at 10km Resolution



Viewing Zenith Angle, Cell to Viewing at 10km Resolution (Degrees)



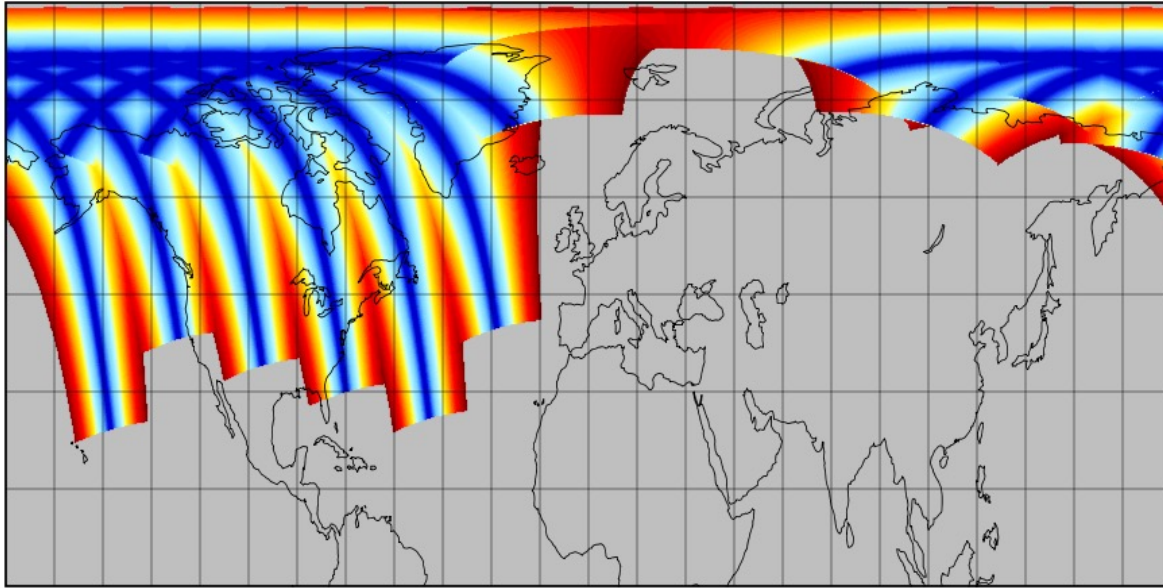
Data Min = 0.2, Max = 65.0

Above: L2 mosaic attempt following hdfEOS.org python example¹ created from 28 MYDATML2 files (SDS = viewing zenith angle 10km; filenames are given in the file list_of_files and also on the final page). This image was created using the code L2_mosaic_testing.ipynb (https://github.com/ianashpole/L2_mosaic/blob/main/L2_mosaic_testing.ipynb)

Left: L2 mosaic created from the same 28 files and SDS, using post- processing “mosaic” and “reproject” options (detailed on final page) from laads find data interface

¹http://hdfEOS.org/zoo/MORE/LAADS/MOD/MOD04_L2_merge.z.py

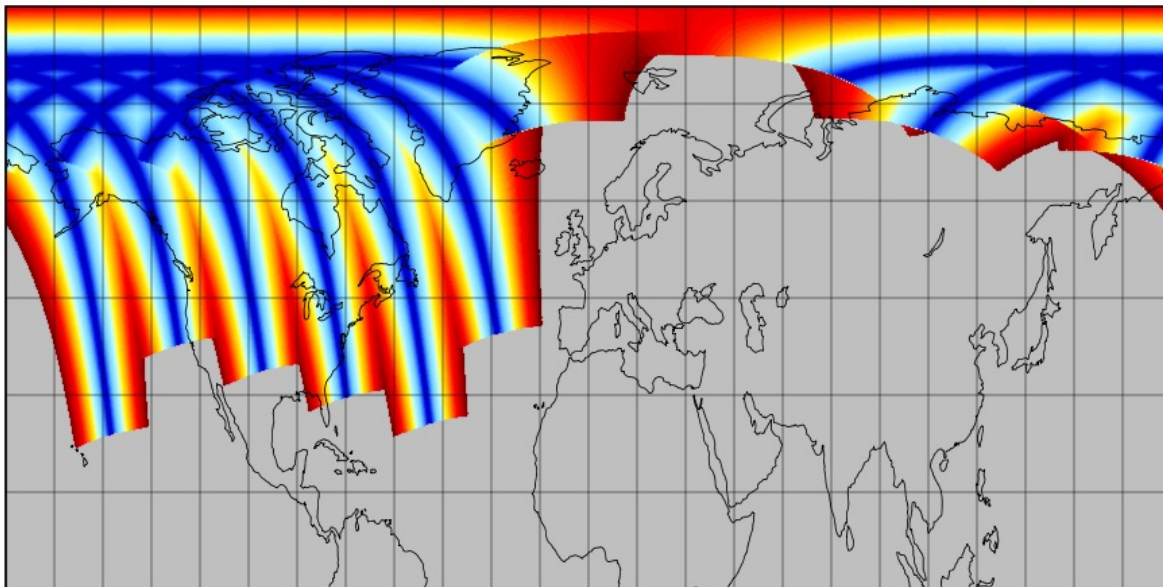
from mosaic file downloaded from laadsweb



Top: L2 mosaic created from the same 28 files and SDS, using post- processing “mosaic” and “reproject” options (detailed on final page) from laads find data interface

¹http://hdfeos.org/zoo/MORE/LAADS/MOD/MOD04_L2_merge.z.py

mosaic created from L2_mosaic_with_regrid.ipynb

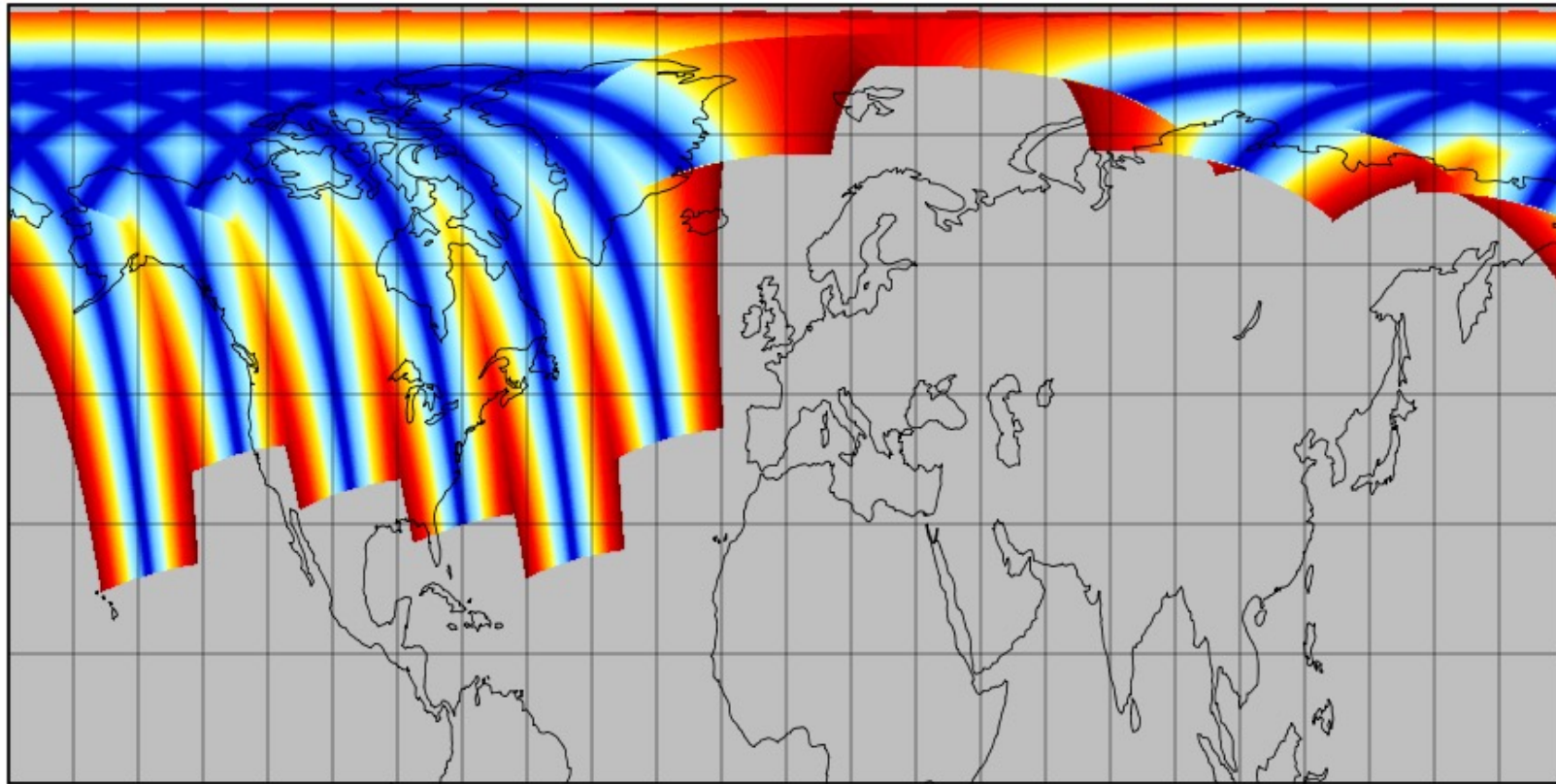


Bottom: L2 mosaic created using the code L2_mosaic_with_regrid.ipynb (https://github.com/ianashpole/L2_mosaic/blob/main/L2_mosaic_with_regrid_final.ipynb). The same 28 files were processed as in the image above and in the erroneous mosaic on the previous page.

The images are almost identical except for a tiny offset evident at swath edges (visible by panning between the images reproduced in larger form on the following two pages). I am unsure why this is occurring, but suspect it may be due to my specification of grid box edges in my code ([L2_mosaic_with_regrid_final.ipynb](#)) vs grid box midpoints in the laads post-processed mosaic... TO BE VERIFIED!



from mosaic file downloaded from laadsweb

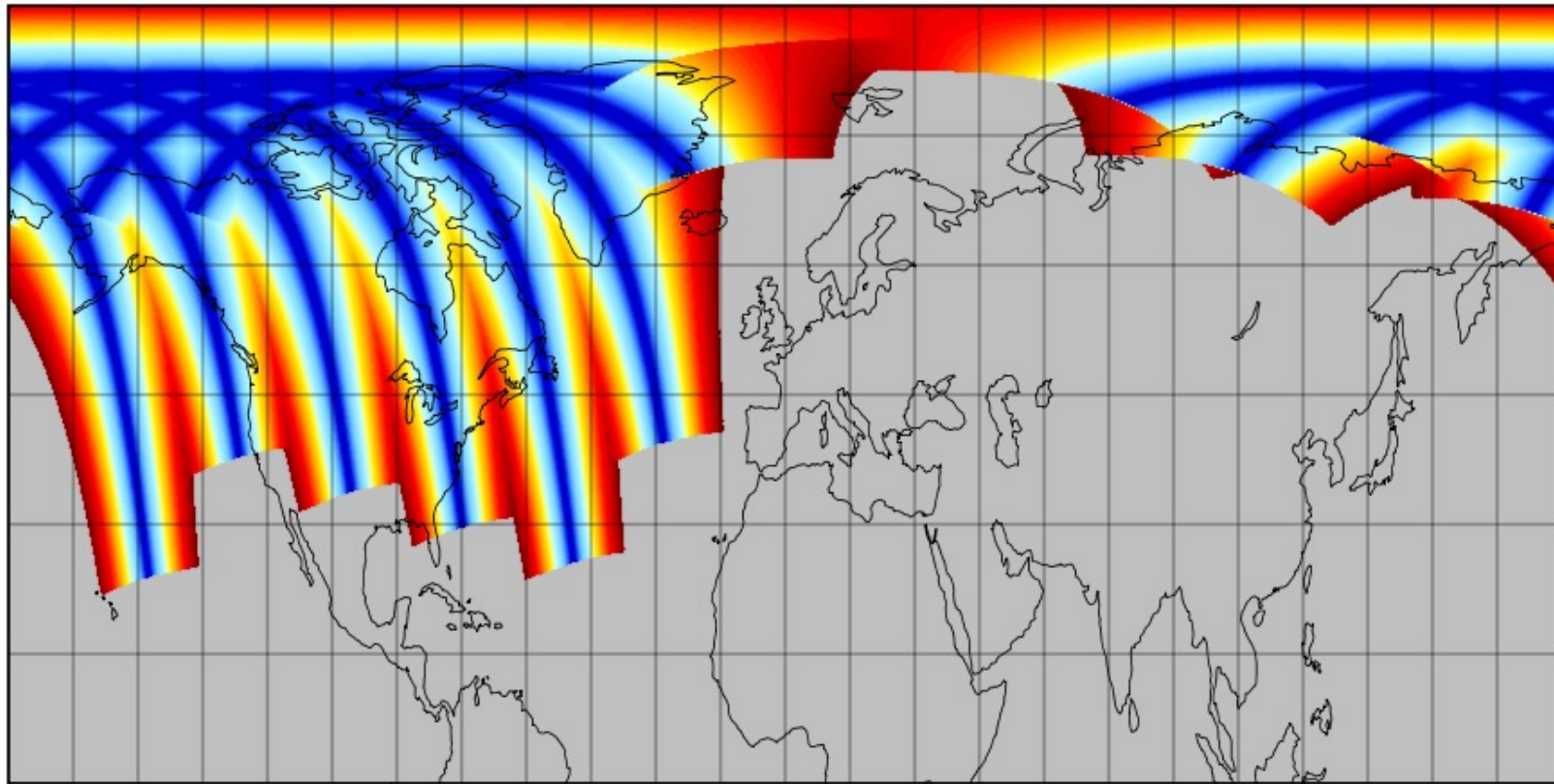


Viewing Zenith Angle, Cell to Viewing at 10km Resolution (Degrees)

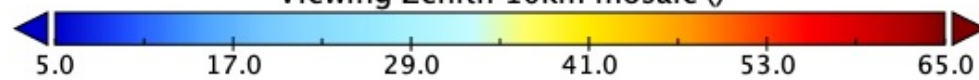


Data Min = 0.2, Max = 65.0

mosaic created from L2_mosaic_with_regrid.ipynb



Viewing Zenith 10km mosaic ()



Data Min = 0.2, Max = 65.0

List of swath files processed:

MYDATML2.A2022214.1200.061.2022215174300.hdf
MYDATML2.A2022214.1205.061.2022215174618.hdf
MYDATML2.A2022214.1335.061.2022215175335.hdf
MYDATML2.A2022214.1340.061.2022215175442.hdf
MYDATML2.A2022214.1345.061.2022215172424.hdf
MYDATML2.A2022214.1505.061.2022215175324.hdf
MYDATML2.A2022214.1510.061.2022215180301.hdf
MYDATML2.A2022214.1515.061.2022215175001.hdf
MYDATML2.A2022214.1520.061.2022215172759.hdf
MYDATML2.A2022214.1640.061.2022215174756.hdf
MYDATML2.A2022214.1645.061.2022215164953.hdf
MYDATML2.A2022214.1650.061.2022215180022.hdf
MYDATML2.A2022214.1655.061.2022215175702.hdf
MYDATML2.A2022214.1820.061.2022215180131.hdf
MYDATML2.A2022214.1825.061.2022215181331.hdf
MYDATML2.A2022214.1830.061.2022215180306.hdf
MYDATML2.A2022214.1835.061.2022215175746.hdf
MYDATML2.A2022214.2000.061.2022215180252.hdf
MYDATML2.A2022214.2005.061.2022215180933.hdf
MYDATML2.A2022214.2010.061.2022215175930.hdf
MYDATML2.A2022214.2015.061.2022215175022.hdf
MYDATML2.A2022214.2140.061.2022215175139.hdf
MYDATML2.A2022214.2145.061.2022215175317.hdf
MYDATML2.A2022214.2150.061.2022215175929.hdf
MYDATML2.A2022214.2315.061.2022215180645.hdf
MYDATML2.A2022214.2320.061.2022215175043.hdf
MYDATML2.A2022214.2325.061.2022215175000.hdf
MYDATML2.A2022214.2330.061.2022215174719.hdf

Post-processing options used on laads find data interface:

(<https://ladsweb.modaps.eosdis.nasa.gov/search/>)

Mosaic: YES

Reproject: YES

- Output pixel size: 0.1deg
- Projection: GEO
- Resample type: NEAREST