

Pixel Size = (0.0008333330000000,-0.0008333330000000)

Corner Coordinates:

Upper Left (-180.0004167, 84.9995833) (180d 0' 1.50"W, 84d59'58.50"N)

Lower Left (-180.0004167, -59.9998367) (180d 0' 1.50"W, 59d59'59.41"S)

Upper Right (179.9981433, 84.9995833) (179d59'53.32"E, 84d59'58.50"N)

Lower Right (179.9981433, -59.9998367) (179d59'53.32"E, 59d59'59.41"S)

gdal_edit can help on this

create the tif with

GeoTIFFs are Cloud-Optimized (COG) with internal tiling/overviews; also attached predefined colour table to a tif to allow an easy visualisation in GIS sw.

Finally, the manuscript would benefit from improved readability and clearer structural organization. In its current form, key terms and abbreviations (BSN, RGN, BAT, RAT, dfs_in/dfs_out, etc.) are introduced across multiple sections without a consolidated glossary, several implementation parameters are stated before their rationale is explained (e.g., the factor of 2 in Eq. (3)), and the technical verification material is split across the main text and two appendices. I recommend the authors revise the manuscript for clarity and logical flow, possibly with the help of a professional editor or writing-focused review pass.