

Processing and Confirmation Report

Background Information

- Original Dataset Name: ODIAC Fossil Fuel Emission Dataset
- GHGC Dataset Title: ODIAC Fossil Fuel CO₂ Emissions
- Dataset Provider: NASA/NIES
- Date Obtained: 06/01/2023
- Location Obtained from: https://db.cger.nies.go.jp/dataset/ODIAC/DL_odiac2022.html
- Data location in GHGC: odiac-fossil-fuel-co2-emissions-2022
- Data POC(s): Dr. Tomohiro Oda, Dr. Lesley Ott
- Dataset File Type(s): GeoTIFF
- Projection (if different from WGS84): NA

Data Transfer Confirmation

An SHA-256 checksum is used to detect high-level errors within data transmissions

- Results from individual checksum file comparisons of pre-transfer and post-transfer
 - All files were transferred successfully

Filename	SHA 256 Original file	

- Report any individual file issues: NA

Data Intake Process

- Link the document with all steps identified

Overall Dataset Statistics:

- Data file reads confirmed: 22 years * 12 months, total of 264 files
- Mean, min, max across all files:
 - Original dataset:
 - COG tranformed dataset:
- Distribution of values across all data (by variable)
 - Original dataset
 - Transformed

- What file range most cases will be all files
- Bounding Box of all data
- Link to transformation record in [Jupyter Notebook](#)
- All values are in expected range (catches out of range values)

Specific, Random Checks / Visual Confirmation

- Visual example and side by side comparison
- More detailed statistics for specific files (randomly chose)
 - Statistics was performed for the following files:
 - 2010-03
 - 2018-08
 - 2006-12
 - 2003-01
- Data comparison at a few specific locations

Summary

- We are confident that the transformation and display of data in GHGC is correct
- These are no problems we have identified in the data.
- Provide additional information or feedback
- [User notebook](#)
- [Link to GHG Center data catalog overview page](#)

Report Completed on: 06/27/2023

MSFC POC for questions: <insert email>.

