

Data Intake Processing and Verification Report

Background Information

- **Original Dataset Name:** OCO-2 GEOS Assimilated CO₂ Concentrations
- **GHG Center Dataset Title:** OCO-2 GEOS Assimilated CO₂ Concentrations
- **Dataset Provider:** NASA
- **Date Obtained:**
- **Location Obtained From:**
 - https://disc.gsfc.nasa.gov/datasets/OCO2_GEOS_L3CO2_DAY_10r/summary
- **Data Location in GHG Center:** oco2geos-co2-daygrid-v10r
- **Data POC(s):** Dr.Brad Weir, Dr.Lesley Ott
- **Dataset File Type(s):** NetCDF
- **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:
- Mean, min, max across all files:
 - Original dataset:
 - COG transformed dataset:
- Distribution of values across all data (by variable)
 - Original dataset:
 - COG transformed dataset:

- 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 chosen)
 - Statistics was performed for the following files:
 - TBD

Summary

- We are confident that the transformation and display of data in the GHG Center is correct
- There were no problems identified in the data
- Link to user notebook <>
- Link to GHG Center data catalog overview page <>

Report Completed on:

MSFC POC for questions: <>