## Data Intake Processing and Verification Report

# [Draft - In Progress]

### **Background Information**

- Original Dataset Name: Pilot top-down CO<sub>2</sub> budget constrained by the v10 OCO-2 MIP Version 1
- GHG Center Dataset Title: CEOS CO<sub>2</sub> Budgets
- Dataset Provider: COES, NASA/JPL
- Date Obtained: August 2023
- Location Obtained From: <a href="https://doi.org/10.48588/npf6-sw92">https://doi.org/10.48588/npf6-sw92</a>
- Data Location in GHG Center: ceos-co2budget-yeargrid-v1
- Data POC(s): Dr. Kevin Bowman, Dr. Matthew Thill, Dr. Brendan Byrne
- 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
  - o 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
- Data comparison at a few specific locations

## 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: <>