

Data Intake Processing and Verification Report

[Draft - In Progress]

Background Information

- **Original Dataset Name:** Gridded Population of the World, Version 4 (GPWv4): Population Density, Revision 11
- **GHG Center Dataset Title:** SEDAC Gridded World Population Density
- **Dataset Provider:** NASA
- **Date Obtained:** July 2023
- **Location Obtained From:**
 - <https://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-density-rev11>
- **Data Location in GHG Center:** sedac-popdensity-yeargrid5yr-v4.11
- **Data POC(s):** Dr. Alex de Sherbinin, Dr. Susana Adamo, Dr. Robert Downs
- **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:
- 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: <>