

Data Intake Processing and Verification Report

Background Information

- **Original Dataset Name:** Global wetland CH₄ emissions estimated by LPJ-wsl model for 1980-2021
- **GHG Center Dataset Title:** Wetland Methane Emissions, LPJ-wsl Model
- **Dataset Provider:** NASA
- **Date Obtained:** July 2023
- **Location Obtained From:** <https://doi.org/10.5281/zenodo.6964918>
- **Data Location in GHG Center:** wetland-ch4-emissions
- **Data POC(s):** Dr. Benjamin Poulter, Dr. Lesley Ott
- **Dataset File Type(s):** NetCDF
- **Projection (if different from WGS84):** NA

Data Intake Process

- https://us-ghg-center.github.io/ghgc-docs/data_workflow/lpjwsl-wetlandch4-grid-v1_Data_Flow.html

Overall Dataset Statistics

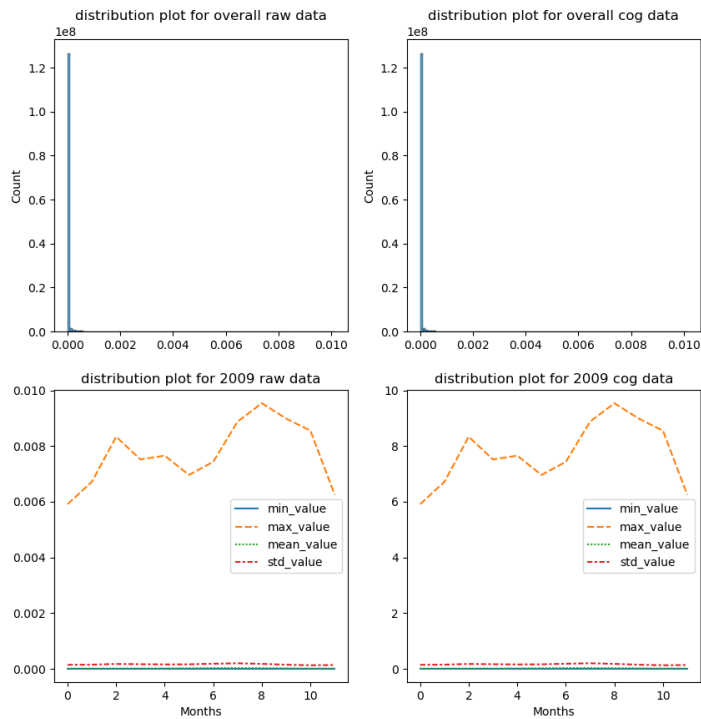
- Distribution of values in g CH₄/m²/mon across all files for CH₄ emission:

	Minimum (g CH ₄ /m ² /mon)	Maximum (g CH ₄ /m ² /mon)	Mean (g CH ₄ /m ² /mon)	Standard Deviation
Original Data	0	0.0101	0.000018	0.00015
Transformed Data	0	0.0101	0.000018	0.00015

- Statistics for CH₄ emission in January 2009:

	Minimum (g CH ₄ /m ² /mon)	Maximum (g CH ₄ /m ² /mon)	Mean (g CH ₄ /m ² /mon)	Standard Deviation
Original Data	0	0.0059	1.221	0.00014
Transformed Data	0	0.0059	1.221	0.00014

- Distribution of values in g CH₄/m²/mon for 2009:



- Link to transformation record in [Jupyter Notebook](#)
- All values are in expected range

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: [Deborah Smith](#), [Siddharth Chaudhary](#)