

Readme for GOES 13-15 121-nm NetCDF "cpy1m" Data

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1 Summary

This Readme is for 121-nm irradiance data in netCDF format from the Extreme Ultraviolet Sensor (EUVS) aboard the GOES 13-15 satellites. This data has a 1-min cadence and is located at <https://www.ncei.noaa.gov/products/goes-1-15/space-weather-instruments> under the Solar Irradiance tab. The files have 'cpy1m' in their names and are netCDF copies of the version 4 EUVS ASCII files located at the same location. There are yearly and mission length aggregations of the data.

While the netCDF files contain the same information as the ASCII files, there are some minor differences in the netCDF files:

- The timestamps represent the record start time (instead of center time as in the ASCII files).
- The units for the timestamps are seconds since 1970-01-01T00:00:00.000.
- The flag values are 0, 1, 2, 4, and 8 (instead of 0, 2, 5, 8, and -999 as in the ASCII files).
- An `au_factor` variable has been added for users to calculate the irradiances at 1 AU.

For further information about the GOES EUVS data, please see the Readmes linked from the Documentation tab at <https://www.ncei.noaa.gov/products/goes-1-15/space-weather-instruments>.

For questions about this data, please contact janet.machol@noaa.gov.