

# Earth's Radiation Budget January Climatology

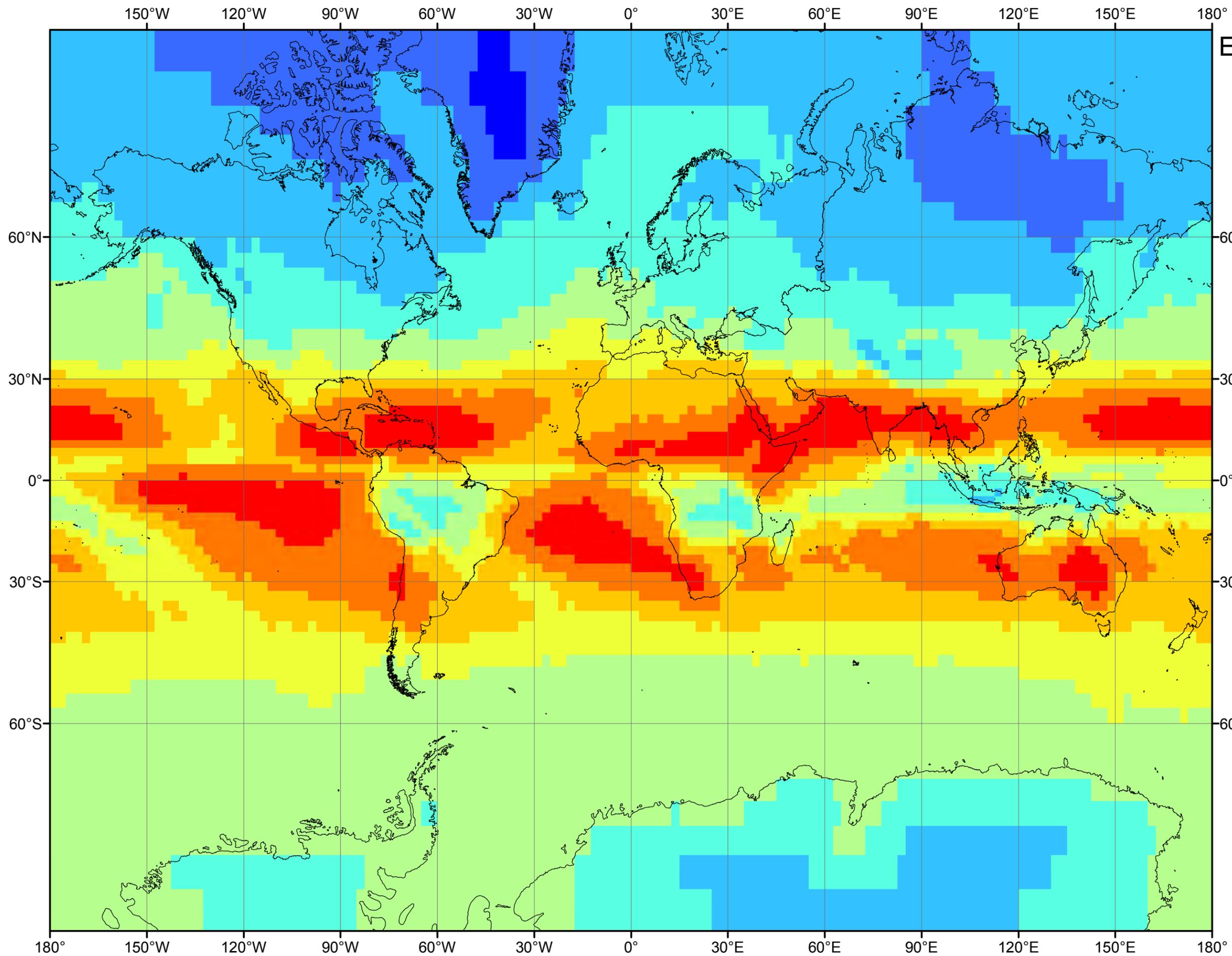
The ERBE short wavelength sensor measured radiation between 0.2 and 5 microns traveling outward from the earth at the top of the atmosphere. This January climatology data set was created by averaging all observations for the month (including cloud-covered regions).

*For comparison visible light ranges from 0.4 to 0.7 microns (blue to red). The short wavelength thus includes visible light and near infrared.*

## Short Wave Radiation out (W/m<sup>2</sup>, with clouds)

- No Data
- 0 - 50
- 51 - 100
- 101 - 150
- 151 - 200
- 201 - 250
- 251 - 300
- 301 - 350
- 351 - 400

Data downloaded from International Research Institute for Climate and Society at Columbia University's Earth Institute (<http://iridl.ldeo.columbia.edu/SOURCES/NA-SA/ERBE/>). Grid size is 2.5° by 2.5°. Mercator projection. WGS84 Geoid.



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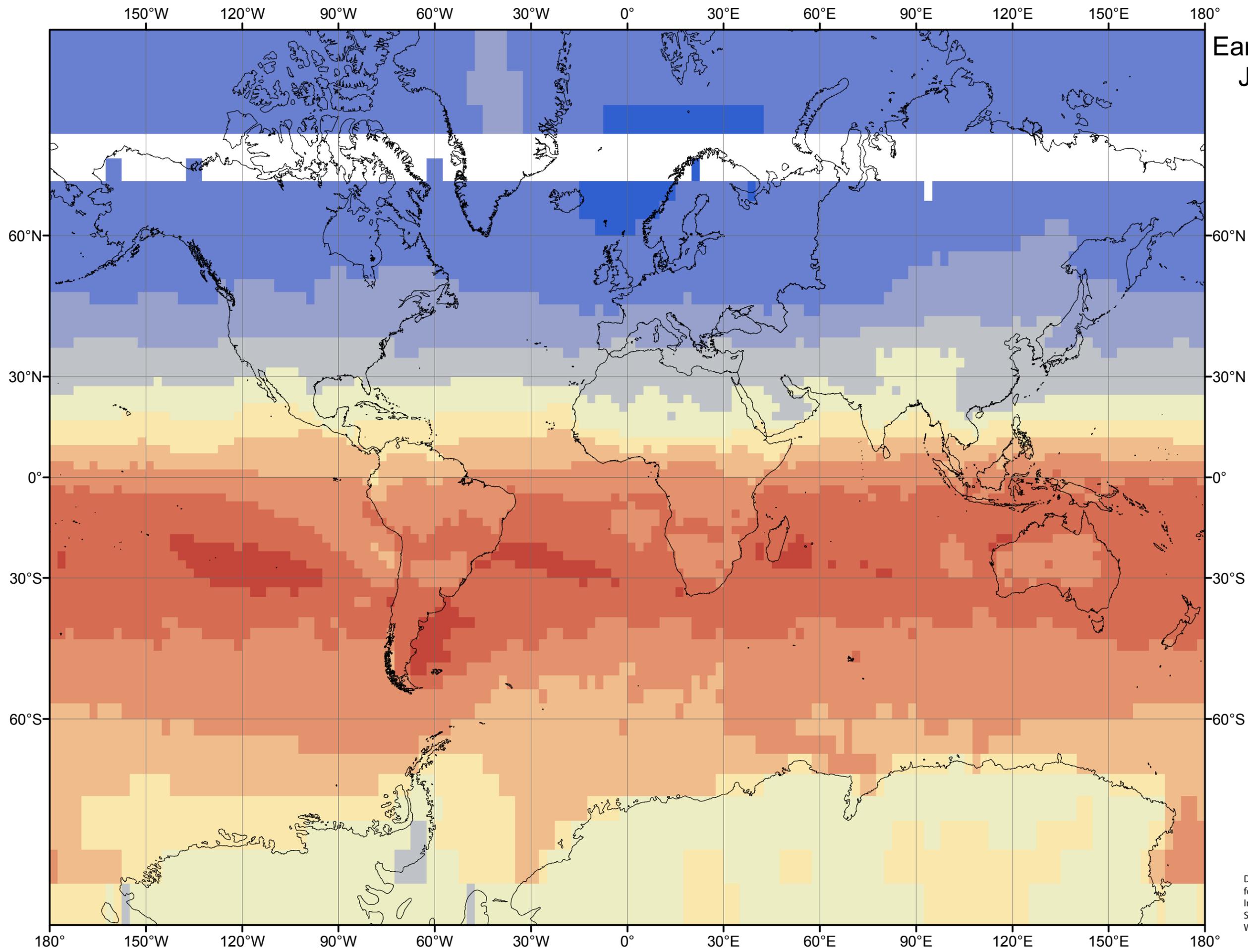
The ERBE long wavelength sensor measured radiation between 5 and 50 microns traveling outward from the earth at the top of the atmosphere. This January climatology data set was created by averaging all observations for the month (including cloud-covered regions).

*For comparison visible light ranges from 0.4 to 0.7 microns (blue to red). The long wavelength sensor thus measures radiation in the thermal infrared range.*

## Long Wave Radiation out (W/m<sup>2</sup>, with clouds)



Data downloaded from International Research Institute for Climate and Society at Columbia University's Earth Institute (<http://iridl.ldeo.columbia.edu/SOURCES/NA-SA/ERBE/>). Grid size is 2.5° by 2.5°. Mercator projection. WGS84 Geoid.

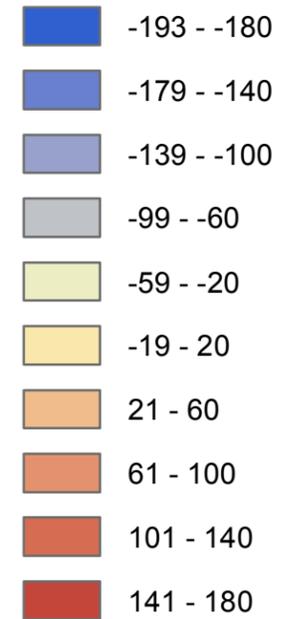


# Earth's Radiation Budget January Climatology

Net radiation (radiation balance) calculated from the sum of the three ERBE radiation components.

This January climatology data set was created by averaging all observations for the month (including cloud-covered regions).

## Net Radiation (W/m<sup>2</sup>, with clouds)



Data downloaded from International Research Institute for Climate and Society at Columbia University's Earth Institute (<http://iridl.ldeo.columbia.edu/SOURCES/NA-SA/ERBE/>). Grid size is 2.5° by 2.5°. Mercator projection. WGS84 Geoid.