

MODIS Level 1B Calibrated, Geolocated Radiances (MOD 02)

Product Description

The Level 1B data set contains calibrated and geolocated at-aperture radiances for 36 bands generated from MODIS Level 1A sensor counts (MOD 01). The radiances are in $W/(m^2 \mu m sr)$. In addition, Earth BRDF may be determined for the solar reflective bands (1-19, 26) through knowledge of the solar irradiance (e.g., determined from MODIS solar-diffuser data, and from the target-illumination geometry). Additional data are provided, including quality flags, error estimates, and calibration data.

Visible, SWIR, and NIR measurements are made during daytime only, while radiances for TIR are measured continuously. Only Channels 1 and 2 have 250-m resolution, Channels 3-7 have 500-m resolution, and the rest have 1-km resolution.

MODIS Level 1B Calibrated, Geolocated Radiances Summary

Coverage: Global

Spatial/Temporal Characteristics:

0.25, 0.5, and 1 km resolutions/daily
(daytime and nighttime)

Wavelengths: 20 channels 0.4-3.0 μm ,
16 channels 3-15 μm

Processing Level: 1B

Product Type: Standard, at-launch

Maximum File Size: 345 MB (1 km), 276 MB
(500 m), 287 MB (250 m)

File Frequency: 288/day (1 km), 144/day
(500 m), 144/day (250 m)

Primary Data Format: HDF-EOS

Additional Product Information:

[http://daac.gsfc.nasa.gov/
CAMPAIGN_DOCS/MODIS/
rad_geo_products.html](http://daac.gsfc.nasa.gov/CAMPAIGN_DOCS/MODIS/rad_geo_products.html)

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