| **Satellite** | **Bands** | **Wavelength** | **Description** | **Pixel Size** |
| --- | --- | --- | --- | --- |
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| MODIS | MODIS Terra: 36 bands | VIS/NIR/SWIR | MODIS (Moderate Resolution Imaging Spectroradiometer) is an instrument aboard the Terra and Aqua satellites. It provides observations in 36 spectral bands ranging in wavelength from 0.4 µm to 14.4 µm. MODIS data is widely used for various applications including land cover mapping, climate studies, and atmospheric monitoring. | 250 m to 1 km |
| Landsat | Landsat 8: 11 bands | Visible, Near-Infrared, Shortwave Infrared (VNIR, SWIR) | Landsat 8 provides continuity with the more than 40-year long Landsat land imaging data set. In addition to widespread routine use for land use planning and monitoring on regional to local scales, support of disaster response and evaluations, and water use monitoring, Landsat 8 measurements directly serve NASA research in the focus areas of climate, carbon cycle, ecosystems, water cycle, biogeochemistry, and Earth surface/interior. It is used for applications such as land cover monitoring, agriculture, and forestry. | 15 m to 100 m |
| Sentinel | Sentinel-2: 13 bands | VIS/NIR/SWIR | Sentinel-2 (S2) is a wide-swath, high-resolution, multispectral imaging mission with a global 5-day revisit frequency. The S2 Multispectral Instrument (MSI) samples 13 spectral bands: visible and NIR at 10 meters, red edge and SWIR at 20 meters, and atmospheric bands at 60 meters spatial resolution. It provides data suitable for assessing state and change of vegetation, soil, and water cover. | 10 m to 60 m |