**Description**

Sentinel-2 Level 2 (GeoTIFF) provides atmospherically corrected Sentinel-2 data (L2A pre-processing or BOA). Sentinel 2 is a multi-spectral imaging mission, capturing visual, infrared and SWIR information. All Sentinel-2 data are available from the start of L2A processing, which is March 2017 for Europe and December 2018 globally. The data block provides an ability to get data for a chosen area of interest, either clipped per bounding box or custom geometry. The part of the image that does not intersect with these tiles will be black. The block outputs a single GeoTIFF file and will store the AOI within the output feature geometry.

**Note:** This is a *Visual* imagery product that returns multispectral bands with 8 bits. Please check the corresponding block descriptions if they explicitly state that they can handle this type of data.

| **Band Category** | **Spatial Resolution** | **Revisit** |
| --- | --- | --- |
| Visible (4) | 10 m | 5 days |
| Near-Infrared (6) | 20 m | 5 days |
| Short-wave IR (3) | 60 m | 5 days |

| **Name** | **Resolution** | **Description** |
| --- | --- | --- |
| B01 | 60 m | Coastal aerosol, 442.7 nm (S2A), 442.2 nm (S2B) |
| B02 | 10 m | Blue, 492.4 nm (S2A), 492.1 nm (S2B) |
| B03 | 10 m | Green, 559.8 nm (S2A), 559.0 nm (S2B) |
| B04 | 10 m | Red, 664.6 nm (S2A), 664.9 nm (S2B) |
| B05 | 20 m | Vegetation red edge, 704.1 nm (S2A), 703.8 nm (S2B) |
| B06 | 20 m | Vegetation red edge, 740.5 nm (S2A), 739.1 nm (S2B) |
| B07 | 10 m | Vegetation red edge, 782.8 nm (S2A), 779.7 nm (S2B) |
| B08 | 10 m | NIR, 832.8 nm (S2A), 832.9 nm (S2B) |
| B8A | 20 m | Narrow NIR, 864.7 nm (S2A), 864.0 nm (S2B) |
| B09 | 60 m | Water vapour, 945.1 nm (S2A), 943.2 nm (S2B) |
| B10 | 60 m | SWIR – Cirrus, 1373.5 nm (S2A), 1376.9 nm (S2B) |
| B11 | 20 m | SWIR, 1613.7 nm (S2A), 442.2 nm (S2B) |
| B12 | 20 m | SWIR, 2202.4 nm (S2A), 442.2 nm (S2B) |
| AOT | 10 m | Aerosol Optical Thickness, based on Sen2Cor processor |
| SCL | 10 m | Scene classification data, based on Sen2Cor processor |
| SNW | 20 m | Snow probability, based on Sen2Cor processor |
| CLD | 20 m | Cloud probability, based on Sen2Cor processor |
| sunAzimuthAngles | 5000 m | Sun azimuth angle (degrees) |
| sunZenithAngles | 5000 m | Sun zenith angle (degrees) |
| viewAzimuthMean | 5000 m | Viewing azimuth angle (degrees) |
| viewZenithMean | 5000 m | Viewing zenith angle (degrees) |

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| --- | --- | --- | --- | --- |
| **Name** | **Status** | **Agency** | Launch | **Description** |
| [Landsat-7](https://en.wikipedia.org/wiki/Landsat-7) | Active | NASA and USGS | 1999 | [Images Earth's land surfaces and coastal areas with global coverage at high spatial resolution.[19]](https://en.wikipedia.org/wiki/List_of_Earth_observation_satellites#cite_note-nasa.gov-20) |
| [Landsat-8](https://en.wikipedia.org/wiki/Landsat_8) | Active | NASA and USGS | 2013 | Follow on to Landsat-7 with improved imager OLI and thermal sensor TIRS. |
| [Landsat-9](https://en.wikipedia.org/wiki/Landsat_9) | Active | NASA and USGS | 2021 | [Follow on to Landsat-8 with OLI sensor and thermal sensor TIRS-2. Landsat-9 will extend the Landsat program to maintain the time series of these type of data.](https://en.wikipedia.org/wiki/Landsat_program) |
| [Sentinel-1A and B](https://en.wikipedia.org/wiki/Sentinel-1) | Active | [ESA](https://en.wikipedia.org/wiki/ESA) | 2014 | [Constellation of two, each satellite carries C-SAR sensor. Part of the Copernicus Programme.](https://en.wikipedia.org/wiki/Copernicus_Programme) |
| [Sentinel-2A, B, and C](https://en.wikipedia.org/wiki/Sentinel-2) | Active | [ESA](https://en.wikipedia.org/wiki/ESA) | 2015 | Constellation of three, each satellite carries MSI sensor for high spatial resolution imaging. Part of the Copernicus Programme. |
| [Sentinel-3A and B](https://en.wikipedia.org/wiki/Sentinel-3) | Active | [ESA](https://en.wikipedia.org/wiki/ESA) | 2016 | Constellation of two, each satellite carries sensors OLCI and SLSTR. Slightly coarser spatial resolution and more spectral bands than Sentinel-2. Part of the Copernicus Programme. |
| [Sentinel-5 Precursor (S5P)](https://en.wikipedia.org/wiki/Sentinel-5_Precursor) | Active | [ESA](https://en.wikipedia.org/wiki/European_Space_Agency) | 2017 |  |
| [Sentinel-6A](https://en.wikipedia.org/wiki/Sentinel-6) | Active | [ESA](https://en.wikipedia.org/wiki/ESA) | 2020 | [Continuing the legacy of the Jason series missions, Sentinel-6/Jason-CS will extend the records of sea level (sea surface height) and provide information for operational oceanography, marine meteorology, and climate studies.[21]](https://en.wikipedia.org/wiki/List_of_Earth_observation_satellites#cite_note-San_Francisco_Bay_Area_News,_Weather,_Sports_From_KPIX_%E2%80%93_News,_Sports,_Weather,_Traffic_and_the_Best_of_SF_2020-22) |



