

# Sentinel-2 True Color Service

## S2TrueColor

### Service description

This service generates a full-resolution natural (true) colour images from input Sentinel-2 L1C images, using the SNAP Sentinel Toolbox. It uses a combination of Blue (Band 2), Green (Band 3) and Red (Band 4) bands to replicate what we would see with our own eyes. It can process single or multiple input images.

### Selecting the service

The S2TrueColor service is selected by clicking on the services  icon on the left of the screen on the Explorer pane. This opens up the Service list, which can be filtered by service type (such as application or processor). Scroll down or type into the search interface the name of the service and after selection the Workspace panel will open.

### Input data

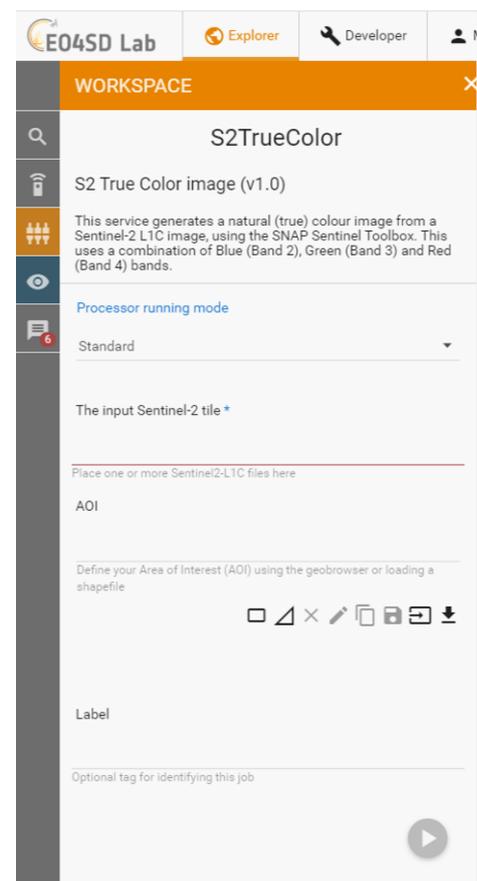
The S2TrueColor service is designed to work with Sentinel-2 L1C images

### Service Outputs

The S2TrueColor service will generate true colour GeoTIFF images from each of the input images at the 10m spatial resolution of the input images.

### Parameters

- Processor Running Mode:** The Processors can be run in two modes **standard** or **systematic**. Most users will just require standard processing i.e. processing of one or more products in a single processing run. For advanced users, systematic processing allows the service to be run periodically if the platform identifies input data that matches the user-defined criteria.
- Input Sentinel-2 tiles:** this is the input Sentinel-2 L1C image(s) to be processed. Drag the input Sentinel-2 image(s) (grabbing from the horizontal lines to the left of its name) from the Results tab at the bottom of the screen to the Input data field.
- AOI:** An OPTIONAL field to define an Area of Interest (AOI) to be used to create a geographic subset of the output image. The AOI can be drawn on the Geobrowser, extracted from a shapefile uploaded by the user or selected from a previously defined AOI. Alternatively, it can be specified in the Well-Known Text (WKT) POLYGON format. An example of a valid specification is: POLYGON((-92.906633 16.190411,-92.066559 16.188383,-92.070266 15.376645,-92.907004 15.378567,-92.906633 16.190411)).
- Label:** An OPTIONAL field for free form tagging for later identification of this processing job.



### Service Execution

## Earth Observation for Sustainable Development Lab (EO4SD Lab)

Once all input fields have been filled in, the service is launched by clicking the round play button at the bottom right corner of the input dialogue area.

The resulting outputs GeoTIFF files can be downloaded, re-used or visualised in the Geobrowser.

Further analysis can be undertaken in one of the GUI applications, such as SNAP, QGIS or Monteverdi. Soon after desired application process (e.g. QGIS) is started, a 'Go to GUI' icon appears in the job description. The desired GUI application can then be accessed by clicking this icon, which opens the GUI in another browser tab. The image below shows a true colour image, in this case the Edinburgh and Fife, Scotland in January 2020, displayed in the GeoBrowser.

