



Explore Workshop

NICFI Program: Getting started with NICFI Data

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PARTNERS



Norwegian Ministry
of Climate and Environment



NICFI

Norway's International Climate and Forest Initiative

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Introduction to Products

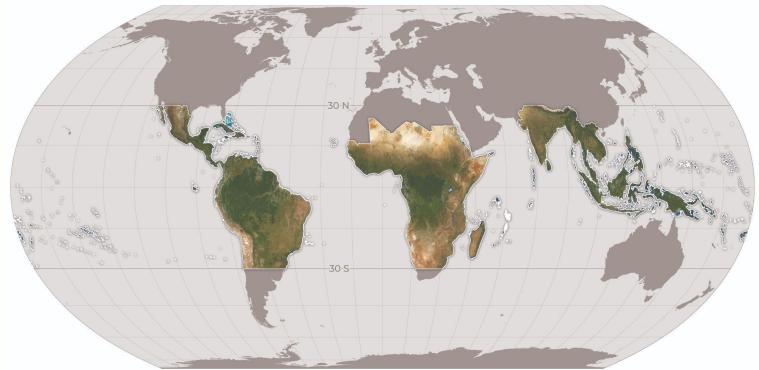
Data Products

- **Visual Basemaps**

- Optimized for visual display
- Spatial Resolution: 4.77m per pixel
- Spectral Resolution: Red, Green, Blue (3band)

- **Analysis-Ready Surface Reflectance
Basemaps**

- Optimized for scientific & quantitative analyses
- Spatial Resolution: 4.77m per pixel
- Spectral Resolution: Red, Green, Blue, Near Infrared (4band)



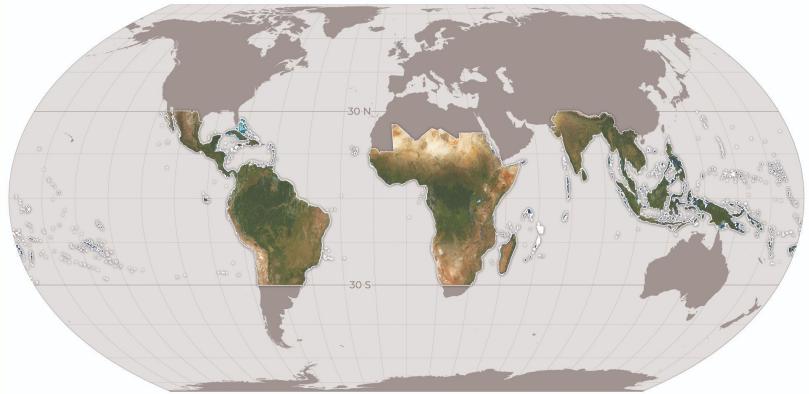
Cadence of Data

- **Archive**

- Bi-Annual (twice per year)
- December 2015 - August 2020

- **Monitoring**

- Monthly
- September 2020 - September 2022 (with possible extension)



Technical Specifications of NICFI Basemaps

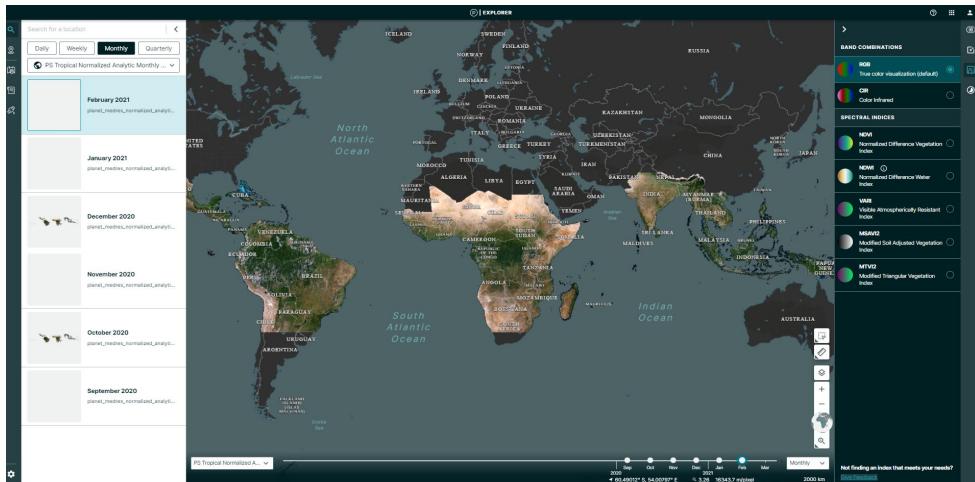
Type	Visual	Analytic (Surface Reflectance)
Input Scene	December 2015 to May 2017: Rapideye + Planetscope May 2017 onwards: Only Planetscope	
Band Information	3 Band (Red, Green & Blue)	4 Bands (Blue, Green, Red & Nir-Infrared)
Bit Depth	8	16
Use Case	Aesthetics Visual Analysis	Scientific Analyses (e.g. Land Cover Classification, Wildfire Burn Scars) Radiometrically Accurate
Processing Steps	Color Balancing Sharpening	Normalization Seamline Removal Atmospheric Correction
Pixel Size	4.77 m	4.77 m



Methods of Access

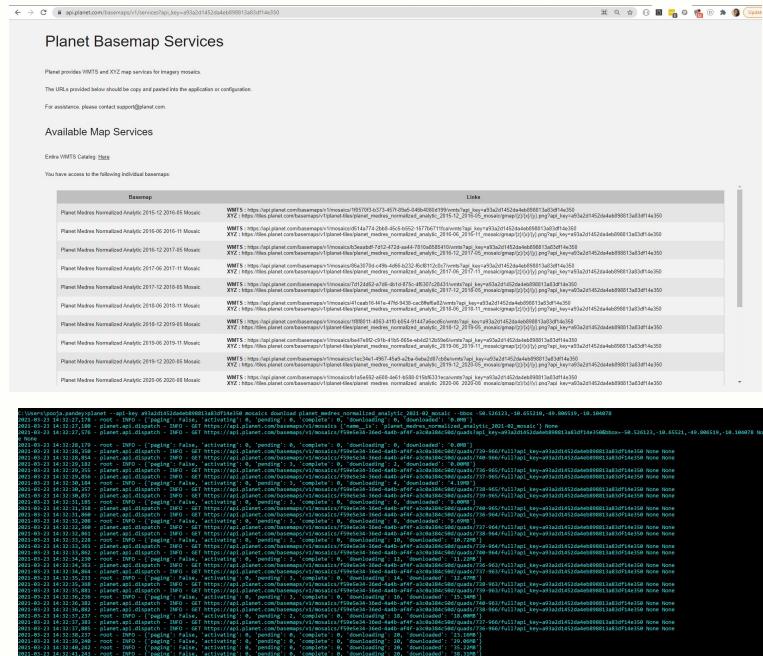
Planet Explorer

- Explorer
 - Timeline feature
 - Spectral analysis tool
 - Compare tool
 - Draw polygons and save them as geojsons
 - Only Basemap Viewing



Mosaics API & WMTS/XYZ Streaming

- WMTS/XYZ Streaming for Basemap
 - WMTS/XYZ links
 - Implement streaming in 3rd party software
 - Apply remote sensing indices as arguments towards the end of your URL
- Python based Command Line Package for quad download
 - Python 3+ Required
 - Allows for bulk download of all quads within a bounding box



NICFI Basemaps in 3rd Party Software

- ArcGIS & QGIS
 - Overlay your area of interest with basemaps as base layer
 - Stream (also in false color visualizations) and search for basemaps
 - Download basemap quads in bulk



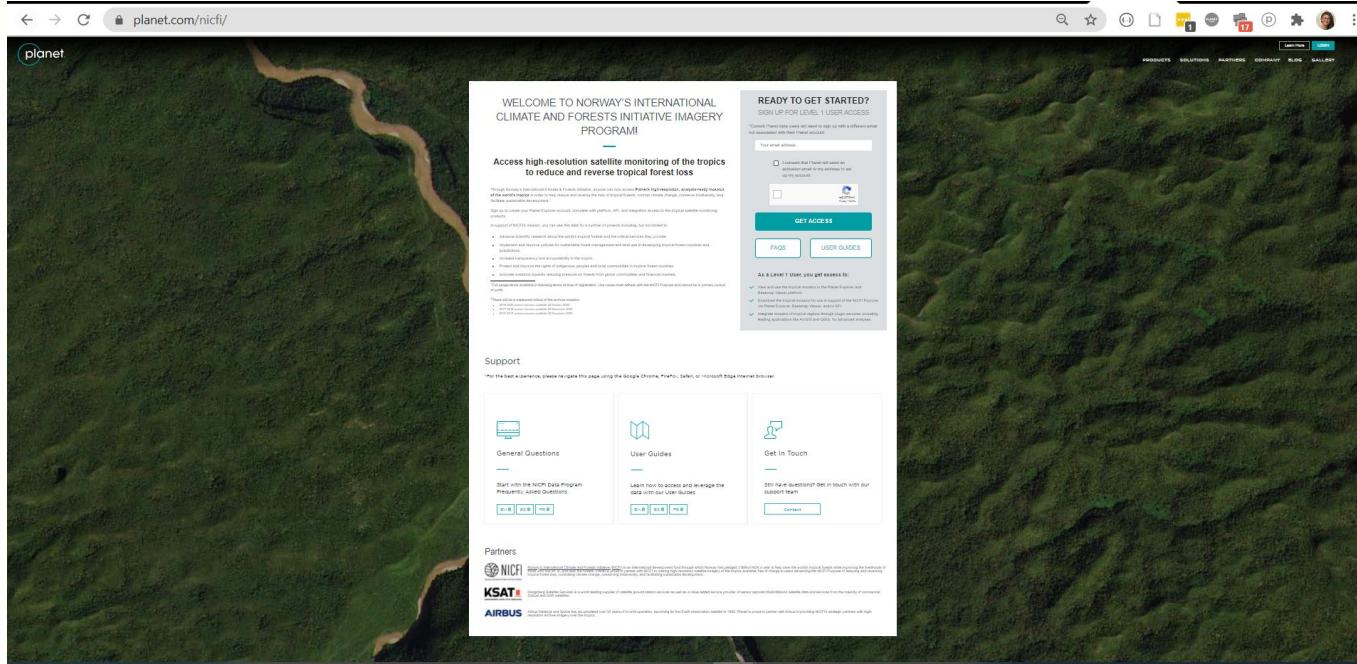
Google Earth Engine



A screenshot of the Planet software interface, which includes two side-by-side map viewers and a central navigation bar. The top map shows a world view with various basemaps applied. The bottom-left map shows a detailed view of a specific area with a green base layer. The bottom-right map shows a similar view with a different base layer. The central navigation bar has tabs for "Search", "Panels", "Panels (Project)", "Panels (Order)", and "Order Status". A dropdown menu shows "Filter: P5 Tropical". On the left, there's a "Select Basemap" panel with a dropdown for "Filter: P5 Tropical" and a list of basemaps grouped by month: December 2020, November 2020, October 2020, and September 2020. Each group contains multiple basemap options. On the right, there's a "Panel Explorer" panel with a "Previous, Download or Newest Planet Basemap" section and a "Select Basemap" section with a dropdown for "Filter: P5 Tropical" and a list of basemaps grouped by month: December 2020, November 2020, October 2020, and September 2020. Each group contains multiple basemap options.

Where can I sign up?

<https://www.planet.com/nicfi/>





NICFI Basemaps Explorer & QGis Demo

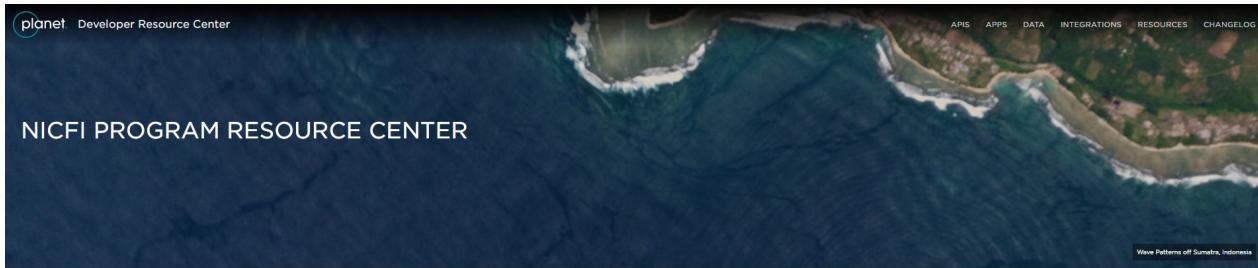
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Where can i find more information?

Resource Center Page: <https://developers.planet.com/nicfi/>



Welcome to the NICFI Program Resource Center!

On this page you will find important resources for using the NICFI data.

Through Norway's International Climate & Forests Initiative (NICFI), anyone can now access Planet's high-resolution, analysis-ready mosaics of the world's tropics in order to help reduce and reverse the loss of tropical forests, combat climate change, conserve biodiversity, and facilitate sustainable development.

In support of NICFI's mission, you can use this data for a number of projects including, but not limited to:

- Advance scientific research about the world's tropical forests and the critical services they provide.
- Implement and improve policies for sustainable forest management and land use in developing tropical forest countries and jurisdictions.
- Increase transparency and accountability in the tropics.
- Protect and improve the rights of indigenous peoples and local communities in tropical forest countries.
- Innovate solutions towards reducing pressure on forests from global commodities and financial markets.

In short, the *primary purpose* of the NICFI Program is to support reducing and reversing the loss of tropical forests, contributing to combating climate change, conserving biodiversity, contributing to forest regrowth, restoration, and enhancement, and facilitating sustainable development, all of which must be Non-Commercial Use.

To learn how more about the NICFI program, streaming and downloading basemaps please read the [NICFI Data Program User Guide](#).

The NICFI Data has 3 User Access Levels:

1. **Level 0 - Open and Public Good:** Public view-only access of the Visual Mosaics (historical and future mosaics) through Purpose Ally sites. Purpose Allies are entities that engage the public on forests and land use monitoring, e.g Global Forest Watch.
2. **Level 1 - As Open as Possible:** Access to download Surface Reflectance mosaics (historical and future mosaics) from the Planet Platform and via Planet's integrations. User groups include Third Party Participants e.g. think tanks, NGOs and organizations using the data in pursuit of the NICFI Purpose.
 - Level 1 users can stream and download Planet Basemaps from multiple sources. Please read through the [User Guide](#) to find the tool that is most appropriate for your needs.
3. **Level 2 - Select Partners:** Strategic partners defined by Norwegian Ministry of Climate and Environment who have access to Level 1 data layers as well as the underlying scenes from Planet and selected historical archive data from Airbus back to 2002.

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Thank you for your
attention!

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