



EarthDaily  
analytics



# EarthMosaics

Analysis-ready mosaics enabling application-specific use cases

Imagine being able to go back in time to identify a trend or a pattern shaping and molding a land. Whether it is an environmental policy, or an infrastructure regulation deployed over a certain period of time, there are impacts to be evaluated, lessons to be learned, and most importantly, risks to be mitigated.

From analyzing a regional forest to monitoring a mining site, predicting water reservoir levels to measuring melting permafrost, EarthDaily EarthMosaics (now in beta) offers application-specific and customized insights fulfilling unique needs of each use case.

Our EarthMosaics delivers cloud-free, temporally coherent mosaics with the highest possible geolocation and radiometry quality, enabling users to examine true signals, minimize false positives in change detection, and easily contextualize with other geospatial datasets.

Users from various vertical industries use EarthMosaics to develop informed decisions with the magnitude of accuracy and efficiency unseen before.



### Natural resource management

Deforestation prevention, wildfire prediction, biodiversity protection



### Infrastructure & land use

Construction development, land use change, wildlife protection



### Climate change

Water reservoir level decrease, melting permafrost, disaster impacts

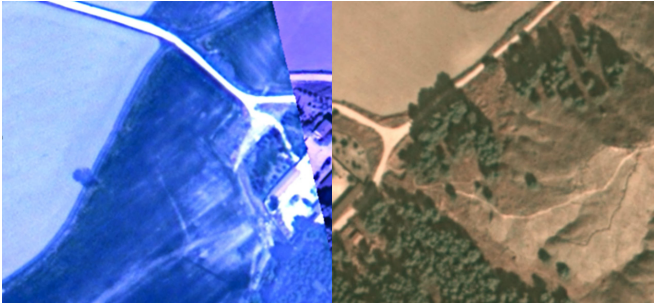
Our proprietary image processing capabilities set EarthMosaics apart from other solutions and deliver true Analysis Ready Mosaics.

Corrections by our analysis-ready mosaics:

- ✦ Geometric and geolocation errors
- ✦ Atmospheric effects
- ✦ Cloud covers, cloud masks
- ✦ Radiometric differences among the images



# Capability highlights



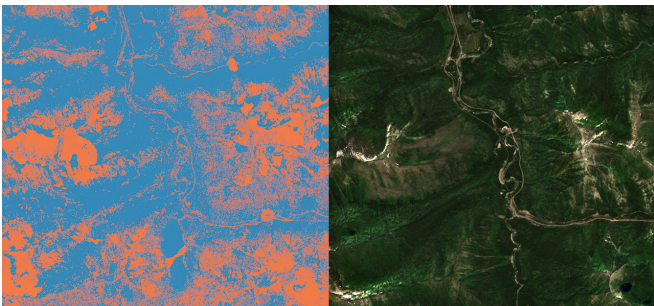
## Radiometric Balancing

Image normalization to scientific sensors (e.g., MODIS) resulting in scientific-grade balancing of colour (e.g., seasonal changes) and radiometry for any ingested dataset



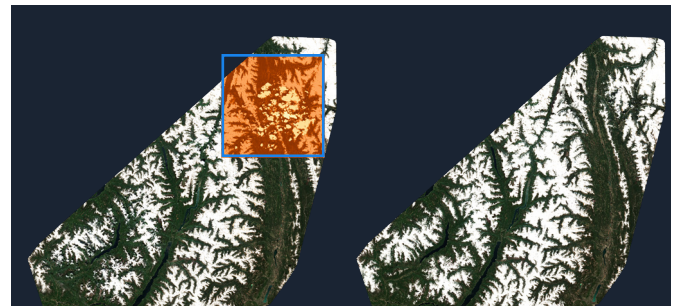
## Geometric Alignment

Removal of any geometric distortion, paired with and correction of any camera orientation effects leading to the highest level of resolution and accuracy



## Pixel composition

Pixel level mapping to source images and metadata allowing every best available measurement to be mapped back to its source for traceable analytics



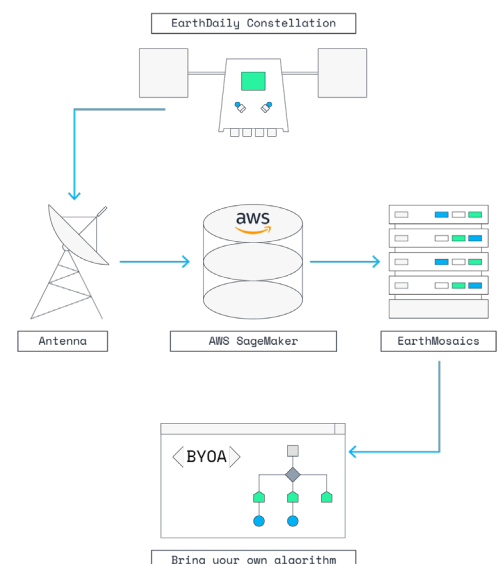
## Data filter and selection

The process of determining pixels for the best available measurement output: based on optimal criteria, temporal representativeness and use cases

## BYOA and Interface Optimization for minimal Total Cost of Ownership (TOC)

Cloud Optimized GeoTIFFs image format and Spatio Temporal Asset Catalog metadata format in AWS suitable for Bring-Your-Algorithms in AWS SageMaker, enabling efficient, seamless integration, perfect for time-sensitive, mission-critical projects

Interfaces optimized with the industry's latest standards and features such as XYZ tile streaming, enabling GIS technicians to effortlessly convert disparate data sources into ArcMap/QGIS for visual analytics in no time



Got a question?  
Our experts are happy to help.



Contact sales at  
[sales@earthdaily.com](mailto:sales@earthdaily.com)



General Inquiries  
+ 1. 778. 658. 0482 (International)  
[info@earthdaily.com](mailto:info@earthdaily.com)

EarthDaily Analytics HQ  
33-1055 Canada Place  
Vancouver, BC  
Canada V6C 0C3