



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

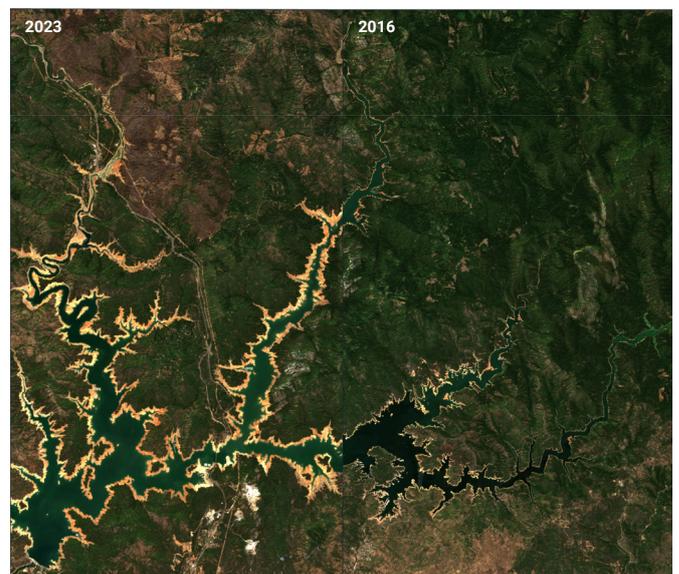
Water reservoir level decrease, melting permafrost, disaster impacts

## Our proprietary image processing capabilities

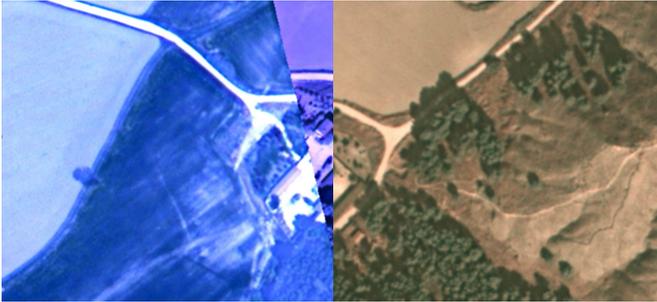
set EarthMosaics apart from other solutions and deliver true Analysis Ready Mosaics.

Corrections by our analysis-ready mosaics:

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



# Capability highlights



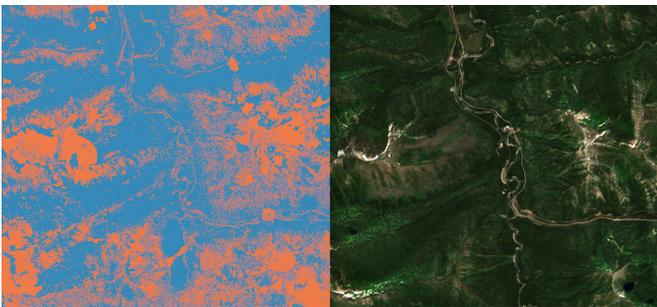
## Radiometric Balancing

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



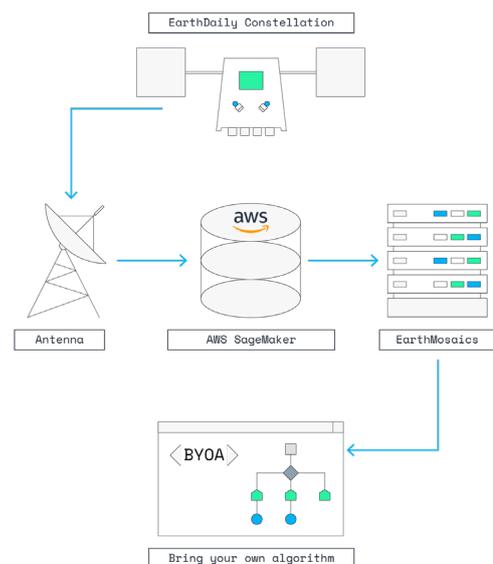
## Data filter and selection

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.



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