

EarthWatch

Frequently Asked Questions

What are the EarthWatch Product Levels?

There are two EarthWatch product levels:

Premium provides access to:

- Daily (holdback on updates: 2 days), Extended Coverage Option (ECO), FirstLook, Metro and Vivid
- Full access to the DigitalGlobe catalog
- Perpetual license on download

Standard provides access to:

- Standard (holdback on updates: 90 days with curated imagery only), ECO and Vivid
- Temporary license on download, valid during the course of the contract

What are the EarthWatch Subscription Tiers?

EarthWatch Premium										
Tier	1	2	3	4	5	6	7	8	9	10
GB	2	4	15	30	75	230	500	1,200	2,200	3,600

EarthWatch Standard										
Tier	1	2	3	4	5	6	7	8	9	10
GB	4	8	30	60	150	460	1,000	2,400	4,400	7,200

* A calculator to estimate the tier you need can be accessed at www.euspaceimaging.com/earthwatch

What content can I access?

	Standard	Premium
Time Series		Daily (2 day holdback)
	Standard	Standard
	Extended Coverage	Extended Coverage
		FirstLook
Mosaics		Metro
	Vivid	Vivid
	Terracolor (Landsat)	Terracolor (Landsat)
Map Layers	Open Street Map (OSM)	Open Street Map (OSM)
	Google Maps	Google Maps
DGCS Platform	API (OGC)	API (OGC)
	ImageConnect	ImageConnect
	EarthWatch Browser App	EarthWatch Browser App
Group License	Download Annual	Download Perpetual
Renewal	Auto	Auto

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What is Daily?

Daily is near real-time access to imagery over areas of strategic and economic interest.

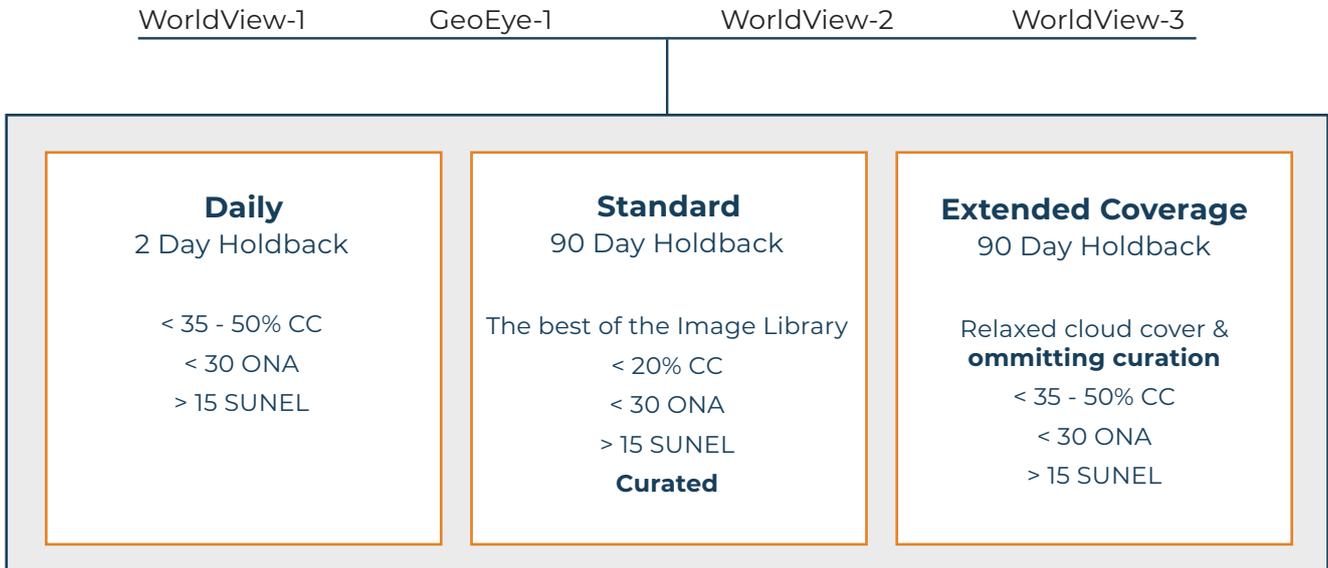
The Daily content includes the most relevant current collections from the WorldView constellation and is updated continuously around the globe. With industry-leading delivery timelines, users can view and download imagery within 48 hours of acquisition to support a broad range of applications for government agencies and commercial. The WorldView constellation is collecting about 3 million square kilometers of new imagery every day.

There is additional content in the archive; image strips that do not meet the Daily CC/ONA/SUNEL threshold (typically more than 2 million square kilometers of new imagery every day). EarthWatch Premium customers with archive ordering enabled can access and order such image strips into their private layer or into their library.

What is Standard content?

Standard (curated, 90 day holdback): Image strips are curated and the resulting best content is offered as a time series to users to better understand and analyze specific geographies of interest, whether they be state-wide, country-wide, regional, or global.

The following figure provides an overview:



* This chart only refers to newly collected data from currently operational satellites. Data from non-operational satellites is always available within EarthWatch.

What is Extended Coverage?

Extended Coverage are images 90 days or older and are of lower value than standard (i.e. higher cloud coverage and/or omitted curation). See figure above.

- Beneficial in particular to customers in cloudy regions, e.g. near the equator
- ECO (Extended Coverage Option) can be turned on/off in the filters

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What is FirstLook?

FirstLook is everything users need for emergency management. FirstLook provides access to pre-and post-event imagery. High-resolution satellite imagery provides the essential information required for planning, risk assessment, monitoring of staging areas and emergency response, damage assessment, and recovery.

What is Metro?

Metro provides easy access to up-to-date high-resolution imagery of more than 6,000 world capitals and major metropolitan areas. Imagery is mosaicked together to provide a consistent view of the urban landscape, including high-value areas of interest, extending beyond the city center to encompass suburbs, airports, and other developed zones of population hubs around the globe.

Metro is held to a high quality standard to provide the best blend of coverage, currency, and consistency. Most Metro mosaics are 30 cm GSD.

What is Vivid?

Vivid provides the most beautiful, high-resolution, color-balanced mosaic (50 cm GSD) imagery available anywhere. Powered by proprietary image processing techniques and unrivaled high-resolution imagery archive, Vivid will delight customers who require the highest quality imagery over large areas of interest.

What is the Landsat layer?

Landsat is a coarse color-balanced base layer mosaic (GSD > 10 m) that is typically used as background while browsing at zoom levels 9-10.

What is Open Street Map (OSM) in EarthWatch?

OSM is a layer showing street names and key landmarks that can be enabled in the browser with transparency 0-100% .

What is Google Maps in EarthWatch?

Google Maps can be selected as a layer that can be enabled in the browser with transparency 0-100%.

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What about custom layers?

EarthWatch allows streaming content inside the browser—on top of DG satellite imagery:

- WMTS (OGC)
- WMS (OGC)
- WFS (OGC)
- ESRI (native) REST

How can I determine the Product Level and Tier for my customer?

A calculator to estimate the tier you need can be accessed at www.euspaceimaging.com/earthwatch

What license types are we offering with EarthWatch?

Group Licenses: Typical for EarthWatch; these licenses are implemented with order request.

Integrator Licenses: Custom, typically with a 50% uplift and/or revenue share. Please contact European Space Imaging for more information.

Media License: Custom, typically a 20% uplift. Please contact European Space Imaging for more information.

Where can I see a complete list of functionality that can be accessed via my EarthWatch subscription?

Please contact European Space Imaging in order to receive the User Guide.

What is Archive Ordering?

EarthWatch Premium customers have access to all commercially available satellite imagery within the Image Library, dating as far back as 2002.

Archive images can be ordered into the EarthWatch library or into a private layer for streaming. For downloading into the library, different processing levels, such as Basic (1B), OR2A, and ortho, are available—including SWIR.

Stereo images can also be downloaded from the archive via EarthWatch Premium.

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EarthWatch Platform
+ 3 PB curated/current imagery

Image Archive

+ 100 PB of Very High Resolution
imagery (dating back to 2002)

Ordering imagery from the archive into the EarthWatch platform is not metered against the customer's GB allocation.

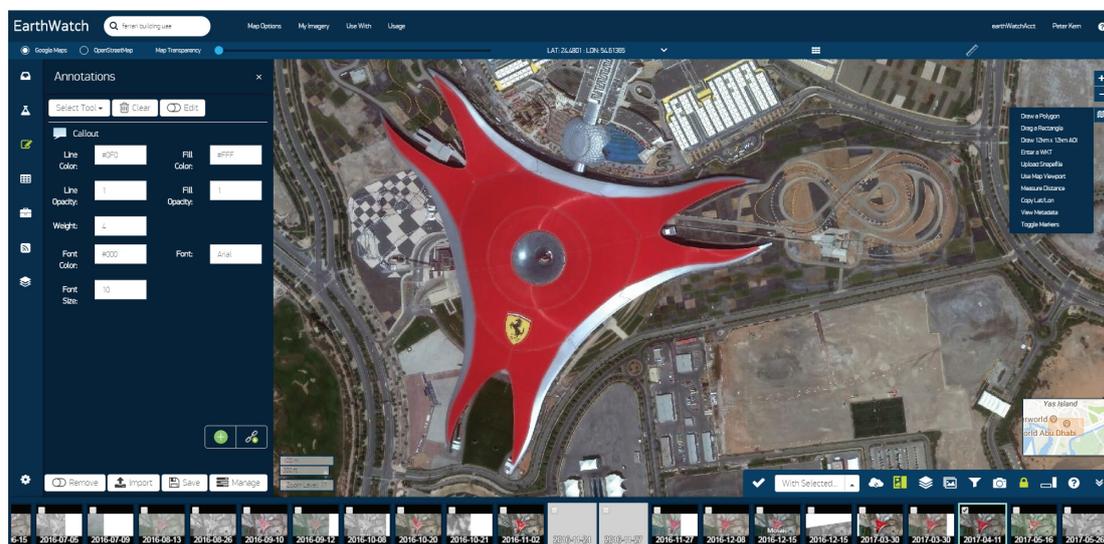
- Archive imagery will typically be delivered into the DGCS platform within 1 business day.
- Once the imagery is loaded into the EarthWatch platform, streaming of archive imagery from the private layer and download of archive imagery is metered and will count against the GB allocation.
- Archive imagery will automatically be rolled off from the private layer and/or the library after 14 days – and can be reordered if necessary.

Is (multi-spectral) archive ordering included?

Archive ordering – including the ordering of multispectral and SWIR imagery – is available for EarthWatch Premium customers.

How can I access EarthWatch via Browser?

EarthWatch has an easy-to-use browser interface that allows you to quickly search and view all premium content. This intuitive user interface enables you to easily manage and download high-value multi-temporal content.



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Is API OGC access included?

Yes, the standard EarthWatch group license includes API OGC access as well as a Developer Guide. However, if a user plans to make content accessed through EarthWatch OGC API available to external parties, an integrator license is required.

Do we have geo-constraints?

Contractual geo-constraints are not necessary given the usage-based pricing model. Reducing access to an AOI will not reduce the costs. All users get worldwide access by license.

We can geo-constrain accounts/users upon request. Please contact your sales representative for assistance.

Can we disable download?

By default, download is enabled.

We can configure/disable download for accounts/users upon request. Please contact your sales representative for assistance.

Customer administrators can manage download (enable/disable) for each of their users.

How much content can be downloaded per GB?

The average file size of one square kilometer download is 5.6 MB across the EarthWatch platform.

- 1 GB allows an average of about 178 square kilometers download.
- Please note that these are averages and actuals may vary depending on the content (compression ratios vary).
- A calculator to estimate the tier you need can be accessed at www.euspaceimaging.com/earthwatch

How much content can be streamed per GB?

The average zoom level for streaming across the EarthWatch platform is zoom level 14.

- 1 GB is typically enough to stream 70,000 square kilometers at zoom level 14

What is the difference between streaming and downloading?

Streaming: WMS and WMTS consumed via the API, whether it is consumed via the browser application, Image Connect (ArcMap) or custom integration

- Download: imagery downloaded into the customer's library (typically at native resolution)

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If a customer is interested in calculating/estimating streaming consumption at different zoom levels, e.g. zoom level 18, the following can be used:

- ZL14GSD = 9m
- ZL18GSD = 0.6m
- Resulting Factor = $(ZL14GSD/ZL18GSD)^2 = (9/0.6)^2 = 225$
- Interpretation: on zoom level 14 you can stream 225 more square kilometers than on zoom level 18

If you wanted to calculate for any other zoom level (i.e. ZLxGSD) then please replace ZL18GSD with ZLxGSD in the formula above.

Following is an example for 2GB:

GSD(m)	Factor	sqkm / GB	Zoom Level	Total sqkm (2GB)
70	0.0	4,234,568	11	8,469,136
30	0.1	777,778	12	1,555,556
19	0.2	311,975	13	623,951
9	1	70,000	14	140,000
4	5	13,827	15	27,654
2	20	3,457	16	6,914
1	81	864	17	1,728
0.6	225	311	18	622
0.3	900	78	19	156

What happens if a user exceeds their GB limit?

Per the EarthWatch license agreement, downloads will be disabled, and streaming resolution will be limited as follows:

- 95% of tier GB allocation: downloads disabled
- 100% of GB allocation: streaming limited to 4.8 m GSD

EarthWatch customers that exceed 100% of the allocation during the period of performance have the following options:

- Continue using their account with streaming only, with resolution limited to 4.8m GSD, until the end of period of performance.
- Buy more GBs at the rate locked in with the agreement for the remainder of the period of performance.
 - Reload (one-time purchase)
 - Monthly invoice for actual overages
 - Renew, enter into a new agreement

For all other questions, please contact a sales representative at [European Space Imaging](#).