



Access to WorldView, GeoEye-1, QuickBird as ESA's Third Party Mission

Terms of Applicability

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1 General

Within the Third Party Mission scheme, ESA provides to Earth Observation users data from non-ESA missions, so-called Third Party Missions, to complement the data from ESA EO missions and to support and build up the scientific user community for those data in Europe.

Since 2016, the Digital Globe Standard Satellite Imagery products from the sensors QuickBird, WorldView-1/-2/-3/-4, and GeoEye-1 are part of the Third Party Missions Program.

Within the ESA CAT-1 TPM Scheme, ESA offers to the CAT-1 user community the following service provided by European Space Imaging (EUSI):

- Delivery to Category-1 Users located in the territory of ESA Member States, in ESA Cooperating/Associate States, and in China as part of the Dragon cooperation programme of on-demand QuickBird, WorldView-1/-2/-3/-4, and GeoEye-1 products (archiving and/or new tasking products) for category-1 use
- Standard tasking option: new acquisition order finalised 3 days before sensing time
- Standard delivery option: product delivery within 1-3 working days after ordering/sensing time



2 Data Accessibility Conditions

The data available as part of the ESA TPM are the following:

Band Combination	Processing	Mission	Details
Panchromatic / 4-Bands	STANDARD (2A) / VIEW READY STANDARD (OR2A)	WV-1 (PAN only), WV-2, WV-3, WV-4, GE, QB	<ul style="list-style-type: none"> Resolution: 15 HD, 30 HD, 30, 40 or 50/60 cm Archive and tasking
	VIEW READY STEREO	WV-1 (PAN only), WV-2, WV-3, WV-4, GE, QB	<ul style="list-style-type: none"> Resolution: 30, 40 or 50/60 cm Archive and tasking
	MAP-READY (ORTHO) 1:12.000 Orthorectified	WV-1 (PAN only), WV-2, WV-3, WV-4 GE, QB	<ul style="list-style-type: none"> Resolution: 15 HD, 30 HD, 30, 40 or 50/60 cm Archive and tasking
8-Bands	STANDARD (2A) / VIEW READY STANDARD (OR2A)	WV-2, WV-3	<ul style="list-style-type: none"> Resolution: 30, 40 or 50/60 cm Archive and tasking
	VIEW READY STANDARD STEREO	WV-2, WV-3	<ul style="list-style-type: none"> Resolution: 30, 40 or 50/60 cm Archive and tasking
	MAP-READY (ORTHO) 1:12.000 Orthorectified	WV-2, WV-3	<ul style="list-style-type: none"> Resolution: 30, 40 or 50/60 cm Archive and tasking
SWIR	STANDARD (2A) / VIEW READY STANDARD (OR2A)	WV-3	<ul style="list-style-type: none"> Resolution: 3.7 or 7.5 m (depending on the collection date) Archive and tasking
	MAP-READY (ORTHO) 1:12.000 Orthorectified	WV-3	<ul style="list-style-type: none"> Resolution: 3.7 or 7.5 m (depending on the collection date) Archive and tasking

- 4-Bands being an optional from:
 - 4-Bands Multispectral (BLUE, GREEN, RED, NIR1)
 - 4-Bands Pan-Sharpned (BLUE, GREEN, RED, NIR1)
 - 4-Bands Bundle (PAN, BLUE, GREEN, RED, NIR1)
 - 3-Bands Natural Colour (pan-sharpened BLUE, GREEN, RED)
 - 3-Band Colored Infrared (pan-sharpened GREEN, RED, NIR1)
- 8-Bands being an optional from:
 - 8-Band Multispectral (COASTAL, BLUE, GREEN, YELLOW, RED, RED EDGE, NIR1, NIR2)
 - 8-Band Bundle (PAN, COASTAL, BLUE, GREEN, YELLOW, RED, RED EDGE, NIR1, NIR2)

Native 30 cm and 50/60 cm resolution products are processed with MAXAR HD Technology to generate respectively the 15 cm HD and 30 cm HD products: the initial special resolution (GSD) is unchanged but the HD technique intelligently increases the number of pixels, improves the visual clarity and allows to obtain an aesthetically refined imagery with precise edges and well reconstructed details.

For tasking, the cloud coverage constraint cannot be less than 15% and the off-nadir constraint cannot be less than 15°. Tasking order form shall be finalized at least 48h (business hours) before sensing time

Images are considered “archive data” if the data is already in the archive (acquisition date older than the ordering date).



The applicable Minimum Order Quantity (MOQ) is 25 km² for archive data and 100 km² for tasking data, the minimum width is 2 km² for archive data and 3 km² for tasking data. MOQ is the minimum area of each single, contiguous, closed polygon composing the order; each acquisition in a time is considered as one order for which the MOQ applies.

	NEW TASKING	ARCHIVE
Minimum order quantity (MOQ)	100 km ²	25 km ²
Minimum width	3 km ²	2 km ²

The full archive is accessible at <https://www.euspaceimaging.com/image-library/>



3 Data users

- Access to data can be provided by ESA to users located in the territory of ESA Member States, in ESA Cooperating/Associate States, and in China as part of the Dragon cooperation programme, but European Space Imaging can introduce further limitation or even rejection of the order (In this case European Space Imaging will interact with users to find the best possible solution), based on applicable security regulations or feasibility study of the acquisition.
- No geographic restrictions on Area of Interests (AOI) unless ESA defines otherwise. But European Space Imaging can introduce further limitation or even rejection of the order (In this case European Space Imaging will interact with users to find the best possible solution)



4 Assignment and usage of quota

Assignment of quota

During the project submission, the user shall specify:

- Mission
- Band Combination
- Processing of interest
- Resolution
- number of km² for tasking and/or archive between the available products
- number of km² per country(ies) [only applicable to new tasking 30 cm resolution]

ESA, then, evaluates the scientific content of a submitted project proposal against the data requirements of the PI and a respective quota will be assigned to the project. ESA tries to support as many high-quality and innovative projects as possible within the quota limit available, therefore only a limited amount of products can be made available to each project.

The assigned quota is valid for one year after reception of the Final acceptance mail. This validity period can be superseded if clearly specified to the user.

Usage of quota

The PI (and Co-PIs if any) is allowed to order the products from European Space Imaging within the limit of the quota assigned by ESA.

The ordering is done directly through European Space Imaging by following the procedure received by EOHelp@esa.int after final acceptance of the project.

The PI (and Co-PIs if any) is not strictly constrained to order exactly the products corresponding to the quota assigned to the project.

In case the PI (and Co-PIs if any) intends to order something different than the quota (but within the list of available products above), they should take into consideration that the products are not necessarily equivalent. A quota for a certain amount of km² for one Mission/band combination/Processing/AOI doesn't consume the quota in the same way as the same amount of km² for a different Mission/band combination/Processing/AOI. PIs (and Co-PIs if any) willing to order something different than the quota (but within the list of available products above) are invited to contact European Space Imaging prior to submit the order in order to evaluate the impact on the quota.