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EOLI-SA procedure for on-demand data ordering

Please find below all the information necessary to use EOLI-SA for ERS, Envisat, ALOS on-demand products.

If your project has been approved for the specific satellite/sensor, you will be able to order:

- ERS SAR archived products
- Envisat archived products (ASAR HR and GM mode)
- ALOS archived products
- SMOS archived products
- GOSAT archived products

Procedure

1. If you have to install EOLI-SA, refer to <https://earth.esa.int/web/guest/eoli>

In case you do not already have the latest version installed, you can perform an upgrade from the Eoli-Sa homepage.

2. Launch EOLI-SA and click on Regular User to login with the username and password provided in the Start-up procedure. The "GMES User" option can be accessed only by authorized GMES/Copernicus customers.
3. Select from the "on line collections" the mission/sensor/mode of your interest
4. In order to perform a general no frame based catalogue search, please insert the area and the start/stop date you are looking for.

If you need standard frames, you have to choose from the "Query mode" filter the "Advanced" option and then tick on "Show results as standard frames", then insert the area and the start/stop date you are looking for.

5. Define an area of interest, either by using the input fields or graphically on the map (Set Area mode).
The size of the area should be as small as possible but big enough to cover all the area of interest and, in any case, greater than the standard scene size (e.g. ERS SAR, Envisat ASAR IM and AP: 100x100 km; Envisat ASAR WS and GM: 400x400 km).
6. Submit the query by clicking on "Search catalogue"
7. In order to perform an interferometry search for ERS/Envisat satellites, go into your "local collections" folder where you should have first inserted the relevant on-line collections. Select "interferometry query mode. Select two date ranges and the appropriate values for baseline, Doppler centroid and date offset; submit query. For more info can be found on the Eoli-Sa User Manual available at <https://earth.esa.int/documents/10174/1703846/EOLISA-UserGuide.pdf>
8. Select one or more group results and use "append" or "replace" to visualize the results of the query.
9. Select one or more products from the displayed list and click on the shop cart button (small shop cart icon at the bottom) to add the items to your shop cart.
10. Go into your "Shop Cart" (second tab in the upper left); select one or more products (avoid mixing missions, product types) and specify the required order options on the left hand side of the window. Note that all products are available via FTP pick-up.

For ERS and Envisat satellites you can choose the Scene Type between "Floating Scene" and "Floating Pass":

- a. => Standard size product = floating SCENE (standard sized scene which can be moved along the segment)
- b. => Non-standard scene = floating PASS (stripline/segment for which the length can be resized)

For ERS and ALOS you should use the "floating SCENE" option, you will have the possibility to move the entire scene (standard size) north- or southwards along the selected segment.

Please note that the availability of the Floating PASS option will however vary according to the product type selected. Note that it is only possible to order Floating PASS for certain product types - mainly Envisat level 0 data.

Be aware that in case catalogue data is retrieved using a small search area (see point 5 above), EOLI-SA will, in the Shop Cart folder, try to re-adjust the coordinates for the floating scene specified by the user in order to fit the selected scene into data segment intersecting the user area. This process may override the coordinates explicitly entered by the user in the coordinates/frame area at the bottom left part of the Shop Cart window"

11. In case you need several consecutive scenes which would be the alternative when "floating PASS" is not available, click on the "duplicate" button in the Shop Cart (lower left) in order to create a new item without losing the original one. The frame will then automatically place itself on the consecutive scene of the segment ensuring a minimum overlap. The data will however be delivered as two (or more) individual standard size products.

If the exact same frame is needed, the new item should be shifted back to the position of the original one on the map or using the scene location fields in the order options column.

12. When you have verified the Order Options for all images you would like to order, select them all (Note: maximum number of items per order is currently 100) and push the "Order" button, the Product Ordering window will appear.
13. In the Product Ordering window insert all the information needed like the e-mail address, order name and user remarks.

If you have several projects, select the right one which has the product type allocated and on which you want to place the order.

Please make sure no special character is used in all fields like address, E-mail, order name and user remark; use only A-Z and 0-9 characters). If more than one email address is inserted, the strings should only be separated by a comma without any empty space.

14. Submit the order by pressing the "Submit" button (note: when successfully ordered, items are automatically removed from your shop cart).
15. The submitted orders and their status can be viewed in the "orders" window.
16. Once the order is produced you will receive an ftp e-mail notification with the related information to download the products.

Important notes:

- Minimum and maximum product size (floating pass) due to processing constraint, in seconds

ERS SAR RAW 15-all
ASAR IM/AP level 0 15-120
ASAR WS level 0 24-120
ASAR WSM level 1 24-120

- Maximum size of floating passes for FTP delivery:

ERS SAR level 0 75 sec
ASAR WS level 0 60 secs
ASAR IM, AP level 0 75 secs
ASAR WSM level 1 product 120 secs

- Polarization

A polarization selected for archived products will not be taken into account

The EOLI-SA User Manual as well as the EOLI-SA Quick Guide are available at:
<https://earth.esa.int/web/guest/eoli>

Please contact EOHelp (eohelp@esa.int) for any information you need to use the tool.