EOLI-SA 3.0

Interacting with Earth Observation Data

User Guide (Draft September 2004)
## Table of contents

1. Introduction 4
   1.1 What is EOLI-SA? 4
   1.2 Purpose of EOLI-SA and main functions 4
   1.3 Data collections 5

2. Getting started 5
   2.1 Download and install EOLI-SA 5
   2.2 Workspaces and main functions 6
   2.3 Connect as anonymous user 8
   2.4 Selecting a collection to search 9
   2.5 Selecting an area of interest 10
   2.6 Setting a date range 12
   2.7 Submitting a Query 13
   2.8 Viewing the Query results 14

3. EOLI-SA installation 16

4. Searching for products on line 18
   4.1 Connecting to the server 18
   4.2 Setting the query criteria 19
      4.2.1 Select a collection 19
      4.2.2 Selecting an area of interest 20
      4.2.3 Setting a date range 22
      4.2.4 Advanced criteria 24
   4.3 Submitting a query 25
   4.4 Retrieving the results 27

5. Viewing the results of a query 28

6. The User Set workspace 31
List of figures

Figure 1. EOLI-SA user interface 6
Figure 2. The Login window 8
Figure 3. The Collection Tree 9
Figure 4. Navigate to the area of interest 11
Figure 5. Set a date range 12
Figure 6. The Catalogue workspace to perform a query 13
Figure 7. List of un-selected and selected results 14
Figure 8. Query results in the Table of Results 15
Figure 9. Connect to the Server 18
Figure 10. Login as a Registered user 18
Figure 11. The Collection Tree 19
Figure 12. Navigate, set and zoom to the area of interest
Figure 13. Set the area of interest from the Gazeteer Area
Figure 14. Four different ways to set a date range
Figure 15. The Advanced Query Mode
Figure 16. The Catalogue workspace set for query
Figure 17. List of results
Figure 18. Query results in the Table of results and as Thumbnails
Figure 19. Zoom to the selected data.
Figure 20. The product details window
Figure 21. The UserSet workspace
Figure 22. The Add to UserSet button
Figure 23. The ShopCart workspace
Figure 24. Selecting sub-scenes in the ShopCart
Figure 25. Creating orders
Figure 26. The Create Order window
Figure 27. Viewing the status of your orders
Figure 28. The Map Layers window
Figure 29. The Add Layer window
Figure 30. The Mosaic Layer
Figure 31. The Preferences window
Figure 32. The Cache area
Figure 33. The Local Collections area
Figure 34. How to add a new branch
Figure 35. How to import on line collections
Figure 36. How to import CD collections
Figure 37. The Proxy Server area
1. Introduction

This document aims at presenting EOLI-SA, its objectives, its main functions and the type of data products which are accessible. A quick "getting started" in this section will help to familiarise you with the main functions of EOLI-SA.

1.1 What is EOLI-SA?

EOLI-SA is an interactive tool that allows you to access the catalogues of ESA’s Earth Observation data products and to order them. These products are organised in collections, whose content can be easily queried and viewed.

1.2 Purpose of EOLI-SA and main functions

EOLI-SA provides an intuitive way of selecting and ordering Earth Observation data products.

With EOLI-SA you can:

- Search data products within the collections
- Define and perform a query
- View the result of the query
- Order data products
- Track your orders

EOLI-SA has two operational modes:

- On line
- Off line

In the on line mode EOLI-SA is connected to the ESA/ESRIN server. In the off line mode you can interrogate a local copy of the catalogue without connecting to the internet.
1.3 Data collections

Data collections are groups of data products of the same type. They are acquired by the same satellite family and instruments within the mission, and undergo the same processing procedures.

EOLI-SA provides access to the following collections of data products and sensors:

- ENVISAT (ASAR; MERIS; AATSR; MIPAS; SCIAMACHY; Radar Altimeter/MicroWave Radiometer)
- ERS
- Third Party Missions
2 Getting started

In this section you will learn how to install EOLI-SA and perform a simple selection and query.

2.1 Download and install EOLI-SA

You can download a full copy of EOLI-SA from:

- [http://earth.esa.int/services/catalogues.html](http://earth.esa.int/services/catalogues.html)

Follow the links and, click on Download & Install EOLI-SA

To install EOLI-SA on Windows run the setup application EoliSAInstall.exe

See Section 3 for information on how to install EOLI-SA on platforms other than Windows.
2.2 Workspaces and main functions

EOLI-SA has four workspaces:

- Catalogue (Fig. 1)
- ShopCart
- Orders
- UserSet

![Main Workspaces](image)

**Fig. 1.** EOLI-SA user interface.

Within this “getting started” section you will use the Catalogue workspace. More details on the other workspaces can be found from section 6.

From the Catalogue workspace you can:

- Browse and select data products from the Collection Tree (a).
- Set an area/time interval of your interest in the Map (b) or in the Date/Area area (c).
- Submit a query via the Submit Query button (d).
• View the result of your query as thumbnails (e) and as items listed in the Table of Results (f).
• Select thumbnails or items in the table.

The ShopCart workspace is where you move the items you have selected for ordering and where you define the order options before submitting it (g).

In Orders you can track your submitted orders.

In the UserSet workspace you may temporarily store a selection of products for future use.
2.3 Connect as anonymous user

For a first time user, it is necessary to connect to the server to browse and select data products from the online collections.

- Click the Connect button below ESA logo (Fig. 1) to open the Login window (Fig. 2).
- In the Login window (Fig. 2) check Connect as Anonymous user and leave the Username and Password fields blank.

![Login window](image)

Fig. 2. The Login window.

See Section 4.1 for further details on Login.
2.4 Selecting a collection to search

To search and select the data products of your interest (Fig. 3) go to the Collection Tree in the Catalogue workspace. Expand and collapse the Collection Tree using the and buttons, respectively.

![Collection Tree](image)

Check the ENVISAT ASAR box to select all data products shown in Figure 3. See Section 4.2.1 for further details on selecting a collection.

Fig. 3. The Collection Tree.
2.5 Selecting an area of interest

The simplest way to define an area of interest is by using the Map area (Fig. 1). By default, the Map is in Navigate mode.

Navigate and zoom in on the area of interest by clicking the mouse pointer on Europe (Fig. 4a), and drag to define the zoom area. To return to the initial view, click on the Globe button.

Check the Set Area mode radio button and select the area of interest by dragging while holding down the left hand mouse button (Fig. 4b).

Click on the Zoom to current Area button to zoom in on the selected area.
Fig. 4. Navigate to the area of interest (a); Set and zoom to the area of interest (b).

For further options see Section 4.2.2.
2.6 Setting a date range

Now you can refine your search by setting a time interval of data acquisition. Set the time interval, for example, by opening the Choose a Date pop-down menu and select Last Week (b).

![Fig. 5. Set a date range.](image)

For the other ways of setting a date range shown in Fig. 5, see Section 4.2.3.
2.7 Submitting a Query

After having selected the collection of your interest, setting the area and the date range, the Catalogue workspace will look like in Figure 6.

![Fig. 6. The Catalogue workspace to perform a query.](image)

To submit the query, click the **Submit Query** button on the menu-bar at the bottom-left of the screen.
2.8 Viewing the Query results

After having submitted the query, EOLI-SA looks for all data products which satisfy the query parameters you set and lists the results in the Search Results window (Fig. 7a).

Check the box displayed next to the result summary description to select the data of your interest (Fig. 7b).

Press the **Append** button to view the results of your query (Fig. 7b) and download the data you selected into the Table of Results (Fig. 8).
Fig. 8. Query results in the Table of Results.

You can now select the results in the Table of results and move them to the ShopCart, where you can define the options for your order to be submitted.

The following sections describe in more detail the functionalities of this new version of EOLI-SA. A brief description on the categories of data stored in EOLI-SA and their policy of use is present in Appendix A.
3. EOLI-SA installation

The full version of EOLI-SA can be downloaded at the following address:

http://earth.esa.int/services/catalogues.html

EOLI-SA is a java application which is supported on all major platforms:

- Windows (95/98/ME/2000/NT/XP)
- MacOS X
- Unix
- Solaris
- Linux
- HP-UX

Windows Instructions:

A Java Virtual Machine is required. Java Virtual Machine 1.3.1 is automatically downloaded when you install the full version of EOLI-SA.

After downloading, double-click EoliSAInstall.exe to install EOLI-SA.

MacOS X Instructions:

Mac OS X 10.0 or later is required.

The compressed installer should be recognized by Stuffit Expander and should automatically be expanded after downloading. If it is not expanded, you can expand it manually using Stuffit Expander 6.0 or later. Download Stuffit Expander from www.stuffit.com/win/expander/index.html

Unix Instructions:

Java 1.1.8 (or later) Virtual Machine is required. Download Java Virtual Machine from http://java.sun.com/j2se/

After downloading, open a shell and, cd to the directory where you downloaded the installer.

In the prompt type the command: sh ./EoliSAInstall.bin
Solaris Instructions:

The Java Virtual Machine is included in the download package. It will run automatically when you run the shell script.
After downloading, open a shell and, cd to the directory where you downloaded the installer.
In the prompt type the command: sh ./EoliSAInstall.bin

Linux Instructions:

The Java Virtual Machine is included in the download package. After downloading, open a shell and, cd to the directory where you downloaded the installer.
In the prompt type the command: sh ./EoliSAInstall.bin

HP-UX Instructions:

The Java Virtual Machine is included in the download package. It will run automatically when you run the shell script.
After downloading, open a shell and, cd to the directory where you downloaded the installer.
In the prompt type the command: sh ./EoliSAInstall.bin

All EOLI-SA files are automatically located in a directory your /eolisa.

EOLI-SA latest releases are downloadable from http://muis-env.esrin.esa.it/geteolisa/patch/eolisa-patch.html
4. Searching for products on line

This section describes in detail the steps required to perform a full Query.

4.1 Connecting to the Server

Launch EOLI-SA and press the Connect button (Fig. 9). Alternatively, you can select App → Connect from the Menu Bar.

Fig. 9. Connect to the Server.

You can connect as:
- Registered user
- Anonymous user

To connect as a registered user, type your Username and Password and click on Login (Fig. 10). See Appendix A for information on how to register.

Fig. 10. Login as a Registered user.

EOLI-SA is now connected to the server at ESA/ESRIN and the on-line collections are automatically loaded into the Collection Tree in Catalogue.

For automatic login at each start-up, see section 9.1.
4.2 Setting the query criteria

4.2.1 Selecting a collection

In the Collection Tree, you can select only the data products that interest you by highlighting the boxes to the left of the collection names. Expand and collapse the Collection Tree using the and buttons, respectively (Fig. 11).

Fig. 11. The Collection Tree.
4.2.2 Selecting an area of interest

The simplest way to set an area of interest is within the Map area (Fig. 1). By default, the Map is in Navigate mode.

Click the mouse pointer on the area of interest (Fig. 12 a) to navigate to the area of interest. Click on the Globe button to return to the initial view.

Check the Set Area mode radio button and select the area of interest by dragging while holding down the left hand mouse button (Fig. 12b).

Click on the Zoom to current Area button to zoom in on the selected area.
Fig. 12. Navigate to the area of interest (a). Set and zoom to the area of interest (b).

You can define the area of interest in other three ways (Fig. 13):
- You can enter Latitude and Longitude of the centre of the area and its Width and Height in the text fields provided (a)
- You can open the Gazeteer Area from Area Selection and enter the name of the area in the text field provided (b).
• When performing an advanced search you can define a circle, a rectangle or a polygon to set the area of interest (c).

![Fig. 13. Set the area of interest from the Gazeteer Area.](image)

It is possible to save the area of interest for future searches by selecting File → Save Search Area from the Menu Bar. This area can subsequently be reloaded by selecting selecting File → Load Search Area from the Menu Bar

4.2.3 Setting a date range

You should further refine your search by defining a specific time interval for the acquisition of data. This is done within the Date area in four different ways (Fig. 14):

a. By selecting the dates from the calendar pop-up. Click on the calendar icon to open the calendar.
b. By selecting the date range from the Choose a Date drop-down menu. In the example, the date range is moved to the following week by selecting Next Week.

c. By selecting a period of time by which to change the date range. In the example, the selected date range can be moved either back or forward a week by selecting Step by Week from the Step by range drop-down menu.

d. By entering a date range in the text field provided.

Fig. 14. How to set a date range.
4.2.4 Advanced criteria.

You can access the advanced criteria by selecting Advanced from the Query Mode drop-down menu (Fig. 15).

![Fig. 15. The Advanced Query Mode.](image)

Advanced criteria allow you specify the following satellite-related parameters:

- Orbit:
- Track
- Pass Type
- Swath (where applicable)

For a detailed explanation of these parameters see the Glossary.
4.3 Submitting a Query

After having selected the query criteria the Catalogue functional area will look like in Figure 16.

![Fig. 16. The Catalogue workspace set for query.](image)

To submit the query, click the **Submit Query** button on the menu bar at the bottom of the screen.

EOLI-SA performs the query and returns all data products which satisfy the query parameters you set. Results are listed in the Search Results window (Fig. 17a).

Highlight the box next to the result summary description and press the **Append** button to retrieve the results (Fig. 17b).
Your search definition may also be saved for future use by selecting File $\rightarrow$ Save Search Query from the Menu Bar. This can subsequently be reloaded by selecting File $\rightarrow$ Load Search Query from the Menu Bar.
4.4 Retrieving the results

The **Append** button adds the data products you have selected to the Table of results (Fig. 18). Data products are displayed as:

- Items listed in the Table of results
- Thumbnails
- Footprints on the Map

![Fig. 18. Query results in the Table of results and as Thumbnails.](image)

If you already have items in the Table of results, you can remove and replace them by using the **Replace** button in the Search Results window (Fig. 17).

If you have selected more than one group of data products in the list of results, you can browse through them by pressing the **Result button** arrows.
5. Viewing the results of a query

The data products you have retrieved are displayed as:

- Items in the Table of results
- Thumbnails
- Footprints on the Map

You may choose to remove footprints on the map by selecting an item in the Table of results, and un-checking the Display tick-box found at the far right of the results table.

To make multiple selections:

- Hold the left button of the mouse together with the Ctrl command.
- Hold the left button and drag the mouse.
- Within a single item, select a column and click the right button of the mouse and select Select all rows with the same value.
- To select all items go to Result Set → Select All in the Menu Bar.
EOLI-SA allows you to zoom in directly on a data product and add its thumbnail to the Map area. To do this:

1) Select an item

2) Click the **Zoom the map to the selected items** button (Fig. 19a)

3) Drag and drop the image onto the Map area (Fig. 19b)

![Fig. 19. Zoom to the selected data (a). Drag and drop the image to the Map area (b).](image)

To remove the item from the Map area, right click on it within the Table of results and select **Remove quicklook thumbnail to mosaic layer**.
To access specific details on the data product you have selected (ex. Orbit number and Pass Type), click on the Detailed Info button (Fig. 20).

![Detailed Info button](image)

**Fig. 20: The product details window.**

The data products you have selected and viewed can now be moved either to the ShopCart or UserSet workspaces. Alternatively, you can print or export them to a file via the Result Set → Print and the Result Set → Export commands in the Menu Bar.
6. The UserSet workspace

The UserSet workspace (Fig. 21) is where data products are stored for future use. You can store up to a maximum number of 100 items.

Data products in the UserSet workspace can either be removed or stored and subsequently moved in the ShopCart to be ordered.

Fig. 21. The UserSet workspace.
From the Catalogue workspace you can move data products to the UserSet by:

- Clicking on the Add to UserSet button (Fig. 22)
- Selecting Result Set → Add to User Set from the Menu Bar

![Add to UserSet button](image.png)

Fig. 22. The Add to UserSet button.

EOLI-SA creates two copies of your UserSet. One is saved to your computer and one is saved to the ESA/ESRIN server. This is to allow you to work and track your updates from different client installations.

The two copies are synchronised when you connect to the server. This means that any changes you make off-line are automatically updated on to the copy on the server when you log in.
7. The ShopCart workspace

The ShopCart is where you move the data products you have selected to finalise an order.

From the catalogue workspace you can add data products to your ShopCart via the ShopCart button (Fig. 1). Alternatively, select Result Set → Add to ShopCart from the Menu Bar. To remove data from the ShopCart, click on the Bin button (Fig. 23).

![Fig. 23. The ShopCart workspace.](image)

You should now check your order content by using the Order Options. These appear as definable fields on the left hand side of the ShopCart window when an item is selected in the product list. Order Options comprise (Fig. 23):

- **Order Service:** Your order is sent to the ESA Earth Observation Missions Orderdesk Team.
• Order Options: Here you can select the Level of processing related to the data products you want to order. For more information on the different levels of processing and categories of data, see Appendix A.

• Delivery Options: Here you can define the type of media you want to receive. The Delivery Medium can be either CD-Rom or DVD, depending on the size of the data. Data are delivered by Courier.

• Processing Options: Processing options are strictly related to the type of data product you order. For further information, go to Appendix A.

Payment Method is set to quota. For further information on your personal quota, contact the ESA Earth Observation Missions Orderdesk Team (eohelp@esa.int).

7.1 Sub-scenes selection

This functionality allows you, for certain product types, to extract a sub-scene from the data product you have selected.

By setting the Scene Type to Floating Scene a sub scene selector appears within the main scene (Fig. 24). Scroll the main scene on the map window by dragging the sub-scene selector and select a sub-scene of your interest (for multiple sub-scene selections, click on the Duplicate button shown in Fig. 24. Avoid locating the scene at the extremes of the swath).
Fig. 24. Selecting sub-scenes in the ShopCart.
7.2 Submitting Orders

You need to be logged in as a registered user to submit orders. For more details on how to register, see Appendix A.

Press the Create Order button or go to Result Set → Create Order in the main menu (Fig. 25) to open the Create Order window (Fig. 26).

![Create Order button](image)

Fig. 25. Creating orders.

The Create Order window includes the information on the parent data product, the delivery address and telephone number. You can change these fields at any time. You need to add an order name to submit the order.
Fig. 26. The Create Order window.

To complete the order, click on the *Submit* button. If the order has been successful, a message stating *Order Successful* will appear and the order will be automatically sent to the ESA Earth Observation Missions Orderdesk Team. If the order is not successful a message will appear explaining the reasons for the failure. In this case, the Create Order window will stay open to allow you correct the information.
7.3 Tracking Orders

You can view the status of your orders from the Orders window (Fig. 27).

To search for a particular order, select the order service and account for which you wish to search. Select the order status and press the Query Orders button to start the search.

When the search is complete the results will be listed in the Table of results (Fig. 27). In Figure 27, note that the sub-scenes are displayed as highlighted sectors within the thumbnails.
8. Advanced Features

8.1 Map Layers

EOLI-SA database includes several vector and raster layers you can add use as a backdrop to view your search results. They comprise Political Boundaries, DEMs, Bathymetry layers, Land Use Classifications and other GIS-related data.

To open the Map Layers window and select a layer, click on the Map Layers button in the Map area (Fig. 28). Alternatively, you can select Map → Map layers from the Main Menu.

Fig. 28. The Map Layers window (raster layer of the bathymetry of the Arabian Sea).

To add a layer to your selection, highlight the box on its left and click on the OK button. Each layer can be moved up or down by using the arrows on the left of the Map Layers window.
You can also add your own vector or raster layer. To do this, press the **Add New Layer** button in the Map Layers window. This opens the Add Layer window (Fig. 29).

![Add Layer window](image)

Fig. 29. The Add Layer window.

Type a Layer name and select the layer’s format from the Layer Type drop-down menu.

Enter the URI where the layer is stored. This needs to be typed in OpenGIS syntax.

Click the **Add** button to add the new layer to the Map Layers window. The new layer can now be displayed on the Map by highlighting its box and clicking on the **OK** button.
8.2 Mosaic Layer

EOLI-SA allows you to drape an image on the Map area. To do this, drag and drop the image from the thumbnail preview to your area of interest (Fig. 30).

To remove the image from the Map area, right click on it within the Table of results and select Remove quicklook thumbnail to mosaic layer.
9. User Preferences

This section describes how to configure your own settings in order to optimise the off line use of EOLI-SA. In the off line mode you can interrogate a local copy of the catalogue without connecting to the internet. The off line mode comprises all the functionalities included in the on line mode, except the order submission and order tracking.

Open the Preferences window (Fig. 31) from App → Preferences in the Main Menu.

![Preferences window]

Fig. 31. The Preferences window.

The Preferences window includes the following fields:

- User – To store your information and location of directories
- Cache – To set disk cache size
- Local Collections – To manage local collections
- Proxy Server – To set the IP address of a proxy server
9.1 The User area

Here you can set your personal information and define the location of your local directories (Fig. 31).

You can set the Automatic Login field to:

- no Automatic login
- Automatic Login as Anonymous User
- Automatic Login as Defined User

When Automatic Login as Defined User is set, you can define your login name (in the Default User Name field) which will automatically appear when you open the Preferences window. In the same way, your password can be set in the Default PassWord field.

The other fields comprise:

- Default Save Directory, where you can define the directory where EOLI-SA will save data.
- Collection Root Directory, where local collections are downloaded.
- CD Directory, which corresponds to the CD drive in your computer (for Windows, type D:/. For Mac, browse to the place where the cd is mounted).
- Area Gazeteer Radius, which is used to define the radius—in km—of your area of interest.
9.2 The Cache area

Here you can set the size of your disk cache and define the number of local collections EOLI-SA is allowed to keep in its memory (Fig. 32).

You can define the size of two caches:
- One for images and product details
- One for reading local collections

To empty the two disk caches, click on the Clear Details Cache and Clear Image Cache buttons.

Fig. 32. The Cache area.
9.3 The Local Collections area

The Local Collections area is where you can manage your local collections (Fig. 33). The area is made up of a series of tabs and a tree component. The tree displays the local collections, whereas the tabs allow you to add a new branch, import new collections - from the server or from a CD Rom – and remove collections.

![Fig. 33. The Local Collections area.](image)

To add a new branch, select the node of the tree under which you want the new branch to reside and press the Add Branch button (Fig. 33). Edit the name of the branch in the text field and press OK (Fig. 34).
Fig. 34. How to add a new branch.

To import an online collection to your local computer, select the branch to where you want to import it and press the Add Online Collection button (Fig. 35a).

Fig. 35. How to import online collections.

From the collection tree, you can select the collections you want to import by highlighting their boxes (Fig. 35b). Collections which can not be
imported are greyed out and can not be highlighted. Some collections are provided with specific files – e.g. Interferometry mode for ASAR collections – which can be imported by highlighting the checkbox under the collection tree.

Click on OK to import the data products to your local directory (Fig. 35c).

The same procedure described above applies to importing data from a CD Rom. Press the Add CD Collection button in the Preferences window and import all data, including images, or choose to download a selected number of data (Fig. 36).

Fig. 36. How to import CD collections.
9.4 The Proxy Server area

For users with a firewall, they can define a proxy server by inserting the proxy address and port in the text fields as shown below (Fig. 37).

Fig. 37. The Proxy Server area.
10. Glossary

Orbit: A revolution of the satellite from one ascending node to the next one. The first quarter of the orbit is *Ascending* and the satellite moves from the Equator (Node = 0) to the point closest to the North Pole. The following two quarters are *Descending* and the satellite moves down to the South Pole. The last quarter is *Ascending* and the satellite moves up to the Equator.

Pass Type: Pass Type can be *Ascending or Descending*. Ascending Pass Type (A) corresponds to a satellite moving towards the North. Descending Pass Type (D) corresponds to a satellite moving towards the South.

Track: An imaginary line connecting the satellite and the Earth's center. As the Earth turns on its axis and the satellite orbits overhead, a line is created by the satellite's apparent path over the ground.
Appendix A. ESA data policy

This section provides a brief overview of the data distribution policy.

Distribution of data is aimed at promoting a balanced development of science, public utility and commercial applications. Distribution and use of data products accessible via EOLI-SA are governed by the terms and conditions of the ERS/ENVISAT Data Policy. Remember: you need to be registered to process data orders. Contact the ESA Earth Observation Missions Orderdesk Team at eohelp@esa.int for information on how to register.

Two categories of use apply to EOLI-SA data products:

- Category 1 use
- Category 2 use

Category 1 includes the use of data for research and applications development in support of a mission’s objectives. Category 1 also covers research on long term issues of Earth System science, research and development in preparation for future operational use, certification of receiving stations as part of the ESA functions, and ESA internal use.

Category 2 comprises all uses that do not fall into Category 1, including operational and commercial use.

Data products which fall under Category 1 use are provided by ESA at reproduction cost or free of charge (to be waived by the Earth Observation Program Board). Their distribution and use are governed by the Terms and Conditions for the Utilization of Category-1 Data.

ESA retains the right to obtain a copy of all data products archived by third parties.
Contact the ESA Earth Observation Missions Orderdesk Team for more information on how to order and use data products - including data from third party missions – and on how to register:

The ESA Earth Observation Missions Orderdesk Team
European Space Agency (ESA-ESRIN)
Via Galileo Galilei
000 44 Frascati – Italy
tel: +39 06 94180777
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