From ISLA to EDL

Securing the future of OSA and simplifying data processing access.

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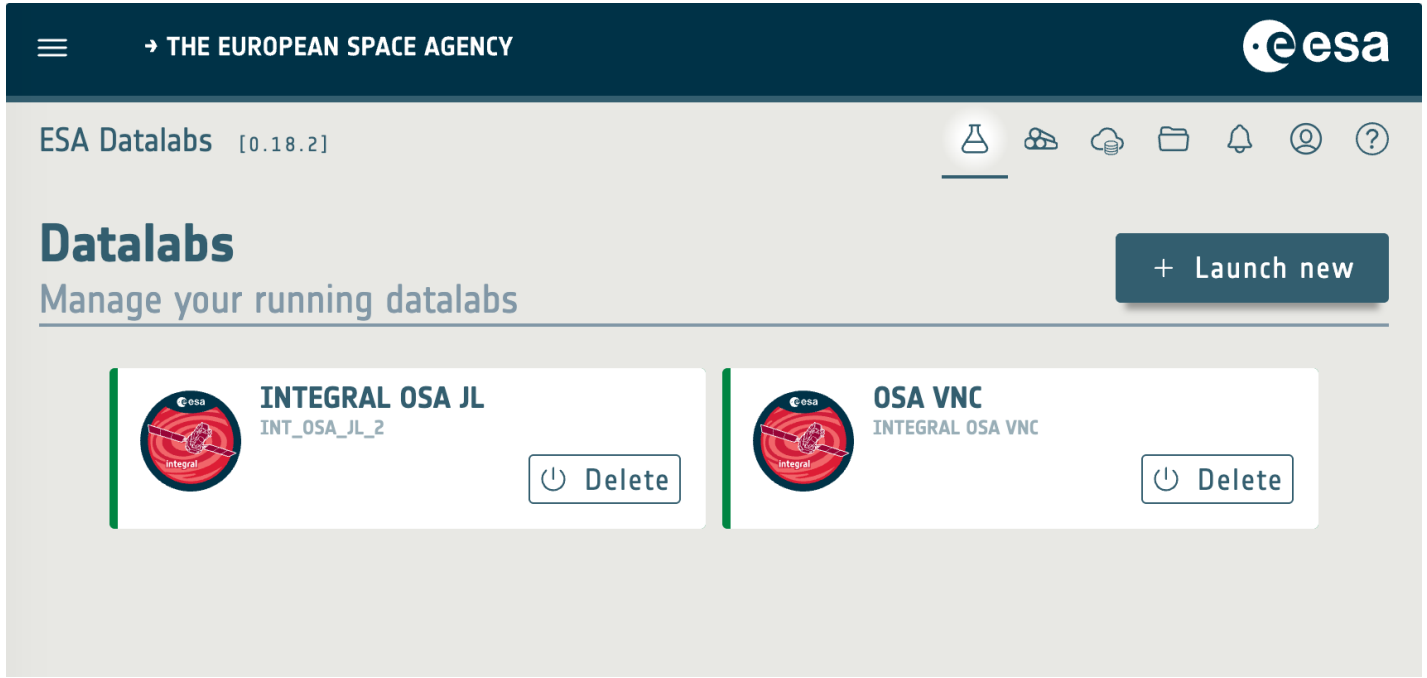
OSA in EDL

There will be two ways to access OSA in EDL: Jupyter-Lab (python notebooks) based datalab and VNC based datalab (remote access to virtual PC)

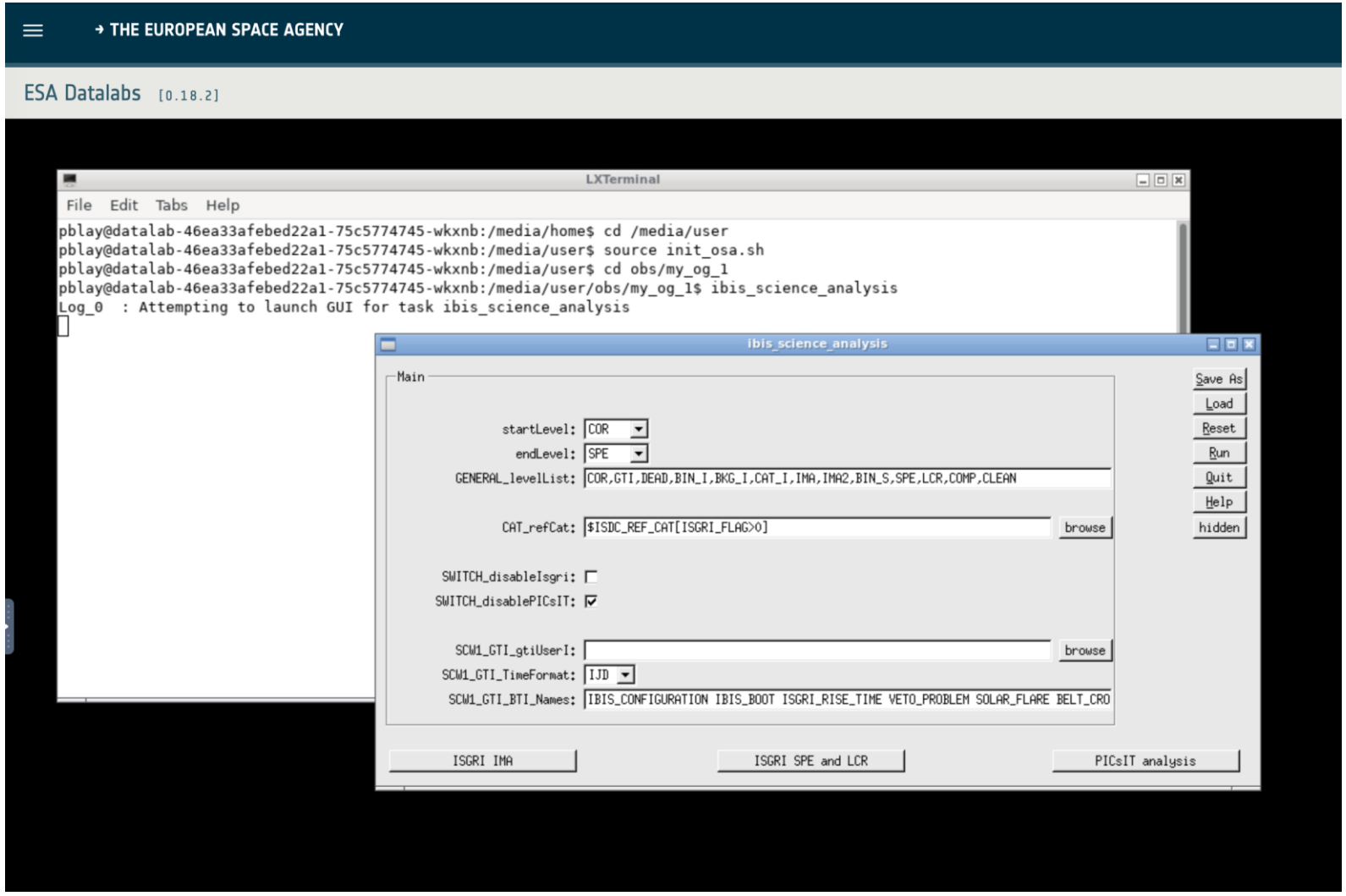


Use the **INTEGRAL OSA JL** Datalab when you want to work from terminals with OSA GUIs disabled, or from Python notebooks using **OSAhelper** to drive the analysis workflow. This is the option that can be linked directly from ISLA.

Use the **INTEGRAL OSA VNC** Datalab when you need a graphical desktop session. This is useful for opening terminals, running OSA binaries with their GUI, running your own analysis scripts/pipelines, and using tools such as XSPEC that benefit from a graphical environment.

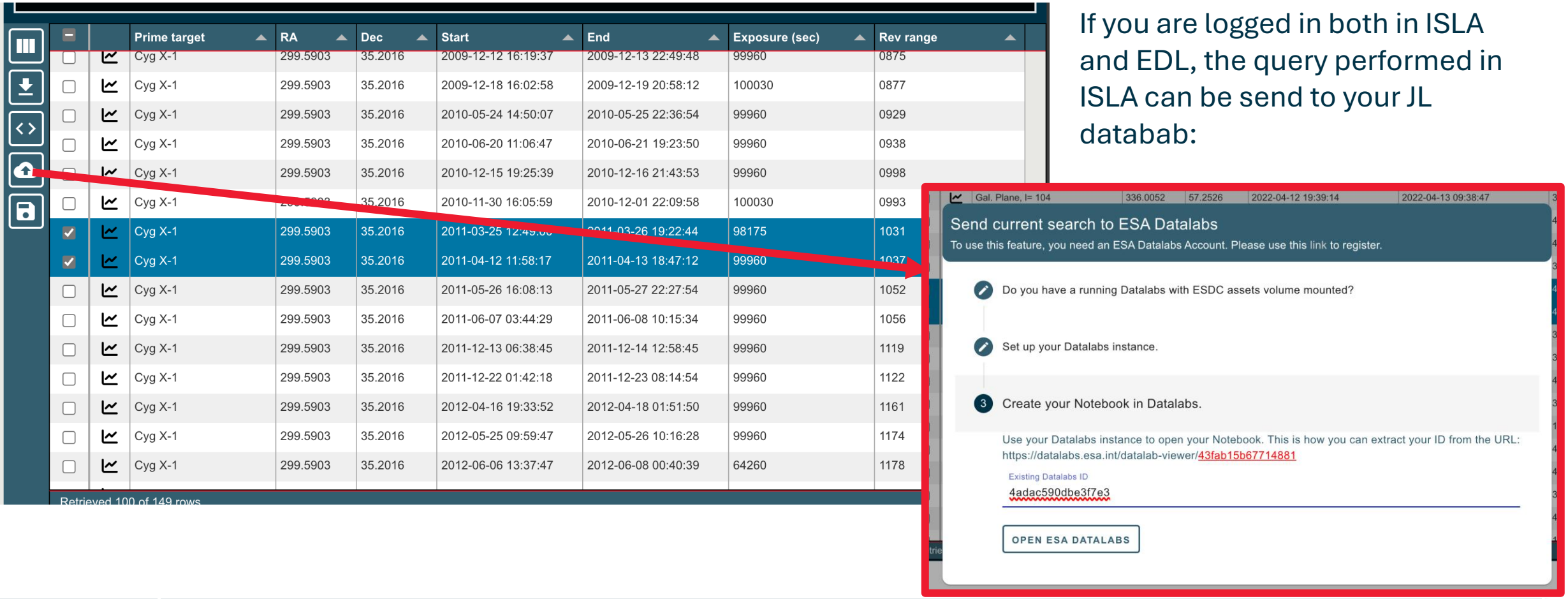
OSA in EDL

The VNC datalab, the classical OSA approach:



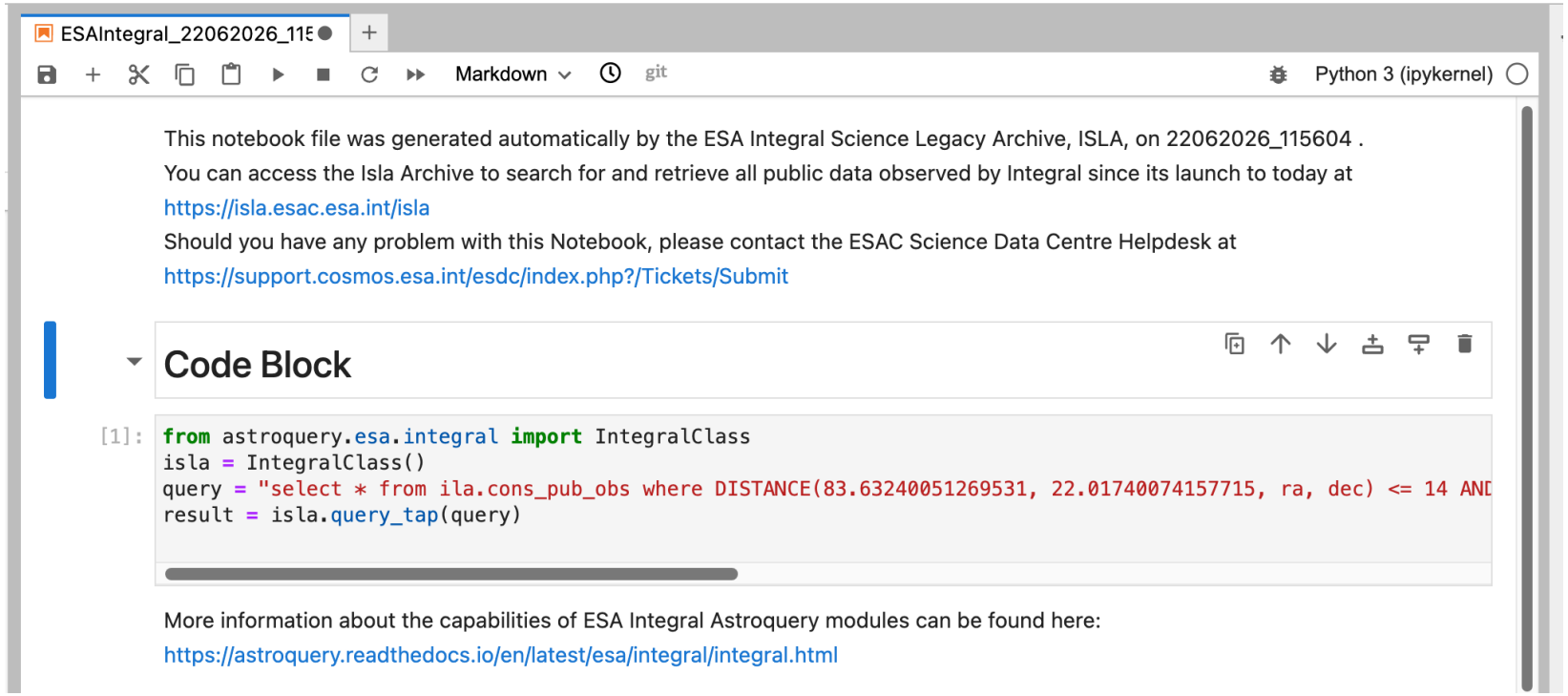
OSA in EDL

From ISLA to the JL datalab:



If you are logged in both in ISLA and EDL, the query performed in ISLA can be send to your JL databab:

OSA in EDL



A notebook with the ISLA query as an astroquery command is opened in your JL datalab.

Save it to your EDL workspace!

Start your own workflow using the pilton python library, or make use of the simplified approach with **osahelper**.

OSA in EDL

Code Block

```
]: from astroquery.esa.integral import IntegralClass
isla = IntegralClass()
query = "select * from ila.cons_pub_obs where DISTANCE(83.63240051269531, 22.01740074157715, ra, dec) <
result = isla.query_tap(query)
```

```
]: import osahelper
osahelper.osa_init()
osahelper.setup_analysis_from_isla()
```

osahelper includes functions to make the analysis easy and straightforward.

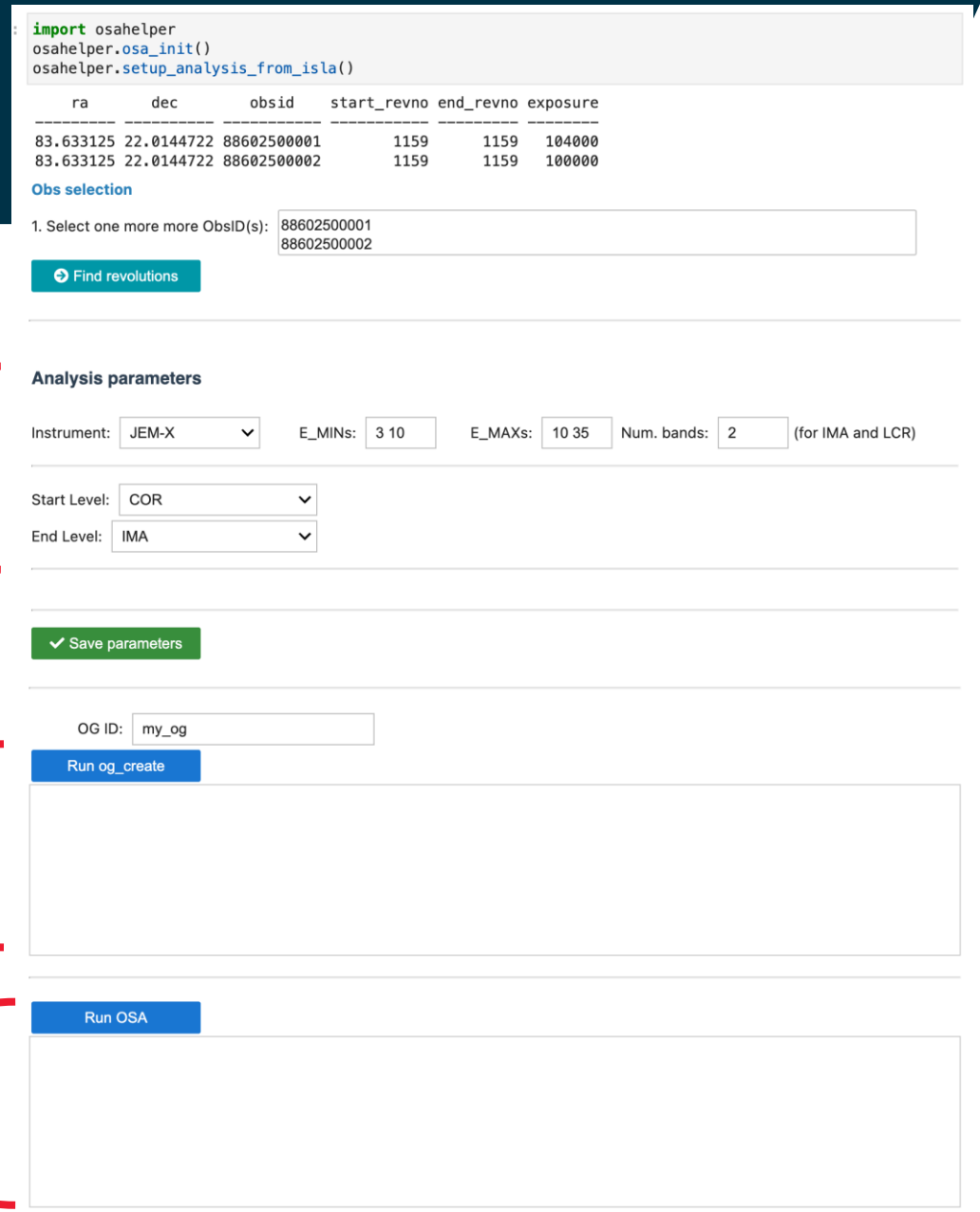
Check them all in the **Tutorials** within the **ISLA User Guide**.

Widget to prepare the scw list

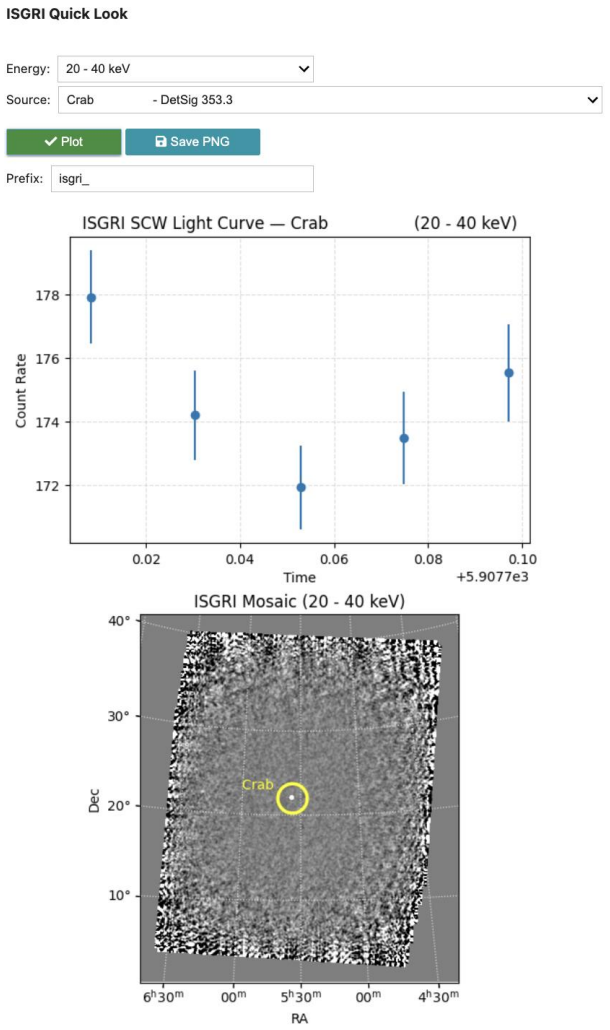
Widget to set the analysis parameters

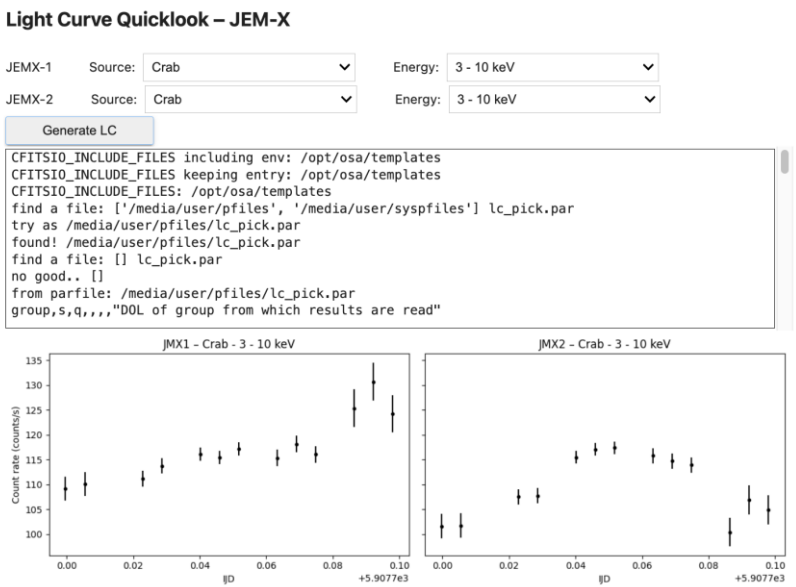
Widget to prepare the observation group

Widget to run OSA scientific analysis

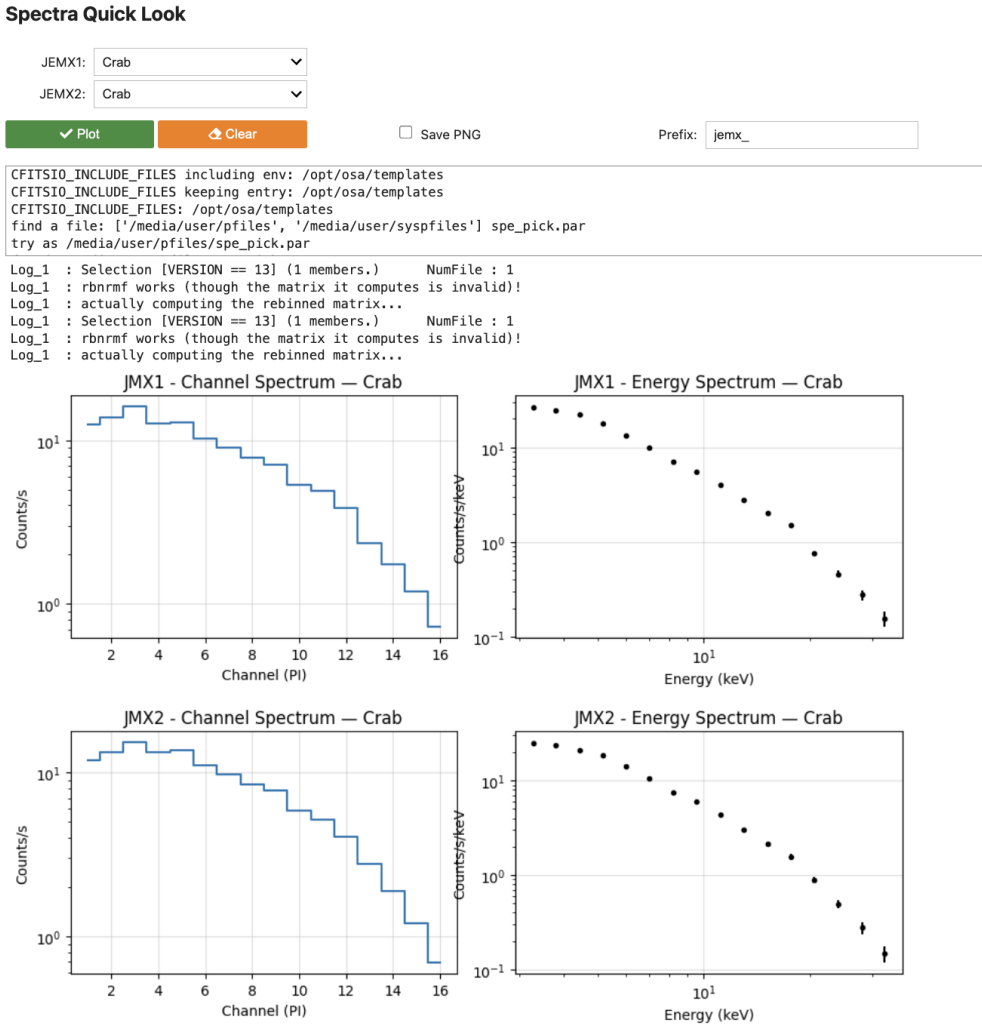


OSA in EDL





Quick look tools are available to assess the performance of the analysis (not for science!).



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THANK YOU!