Validate the ECL/GRM VHF Products (to make them public on the GRB Table)

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General Principles

- A trigger appears on the GRB Table if it is validated as a « Possible GRB » or a « Confimed GRB » on iFSC-Tools.

  Update this trigger status on iFSC-Tools is the role of the Burst Advocates (BA-T and BA-F).

- **The associated public scientific products appear on the GRB Table once they have been validated on iFSC-Tools.**

  = this validation is made by the IS ECLGRM-VHF for the results of the ECL/GRM quicklook analysis.

- **The version of the product that can be validated on iFSC-Tools is the last version injected in SDB: it is mandatory to first inject the products in SDB before validating on iFSC-Tools in case of reprocessing.**

Warning

- If some VHF packets arrive very late, it can start a new process after you finished a reprocessing, and inject new values in SDB.

- **In such a case, you have to re-start your reprocessing and re-inject in SDB.**

  Easy to do: open the json configuration file on ecgrm-ui, check the box « SDB » and start again with exactly the same config.

List of Public Products to validate

- OBALERT_ECL, OBALERT_GRM: in principle the validation should be made by the BA-T

- **On-board lightcurves: (count lightcurves, not background-subtracted)**
  - **ECL** (QLC_ECL)
  - **GRM** (QLC_GRM)
  - **combined ECL+GRM** (QHR_ECLGRM)

- **Duration: T90, t05, t95, on-ground significance in T90, T50, t25, t75 for ECL (**QT90_ECL**) and for GRM (**QT90_GRM**)**

- This list can evolve in the future. What is described here is the current state (Spring 2026).

Validation on iFSC-Tools

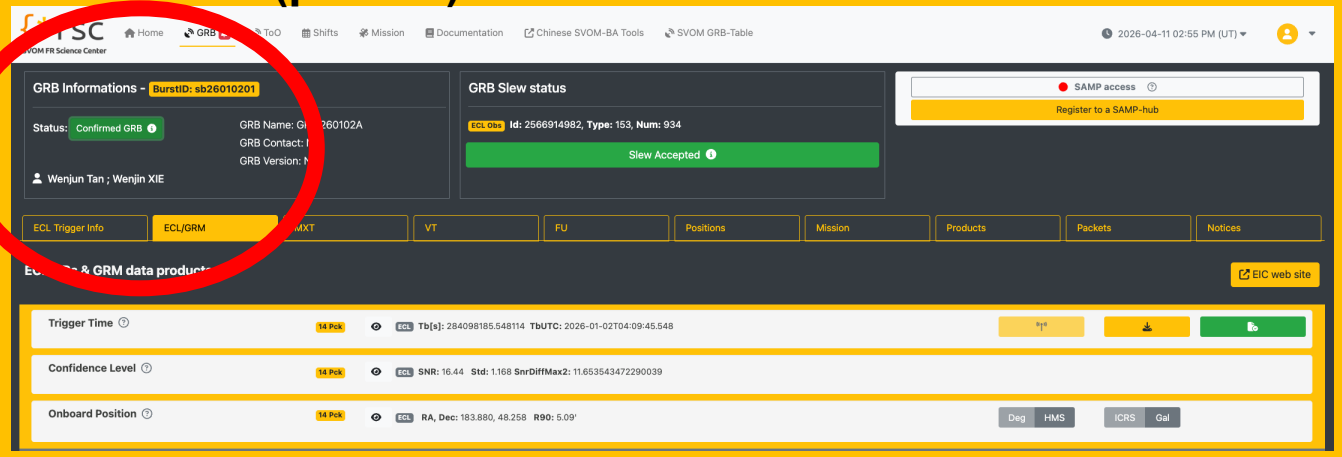
Trigger Status:
updated by the BA-T, BA-F.

The trigger appears on the GRB Table if the status is

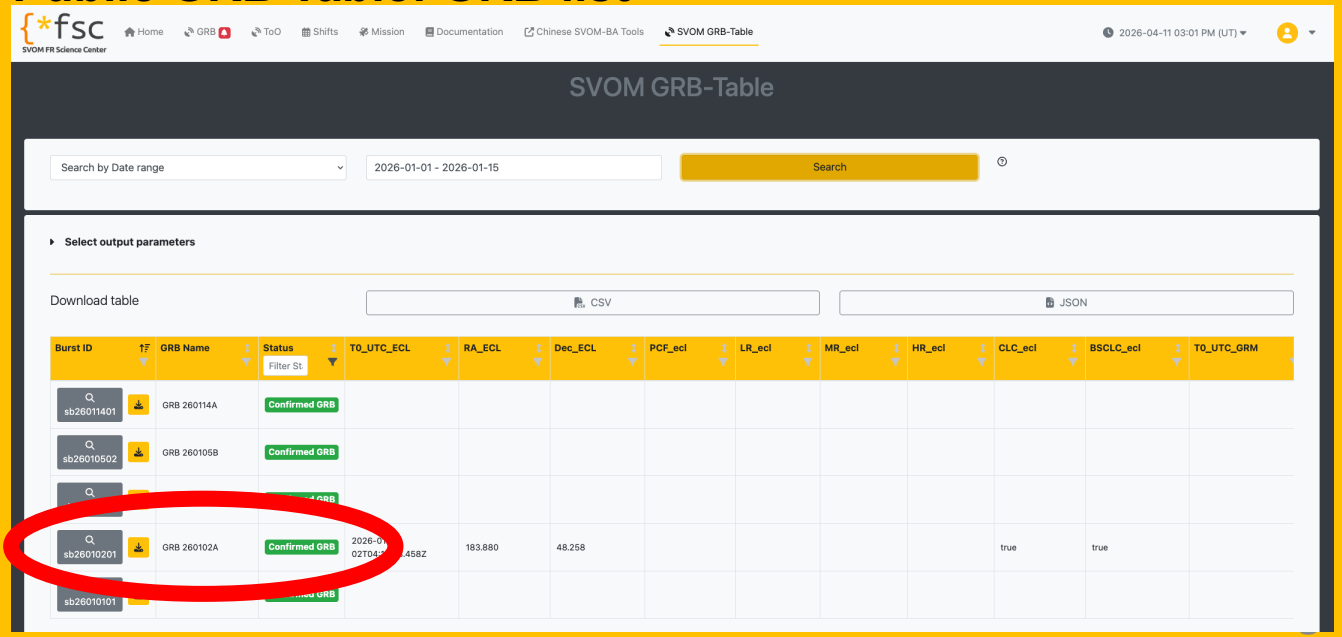
- **« Possible GRB »**
- **or « Confirmed GRB »**

(Color: Green)

iFSC-Tools (private):



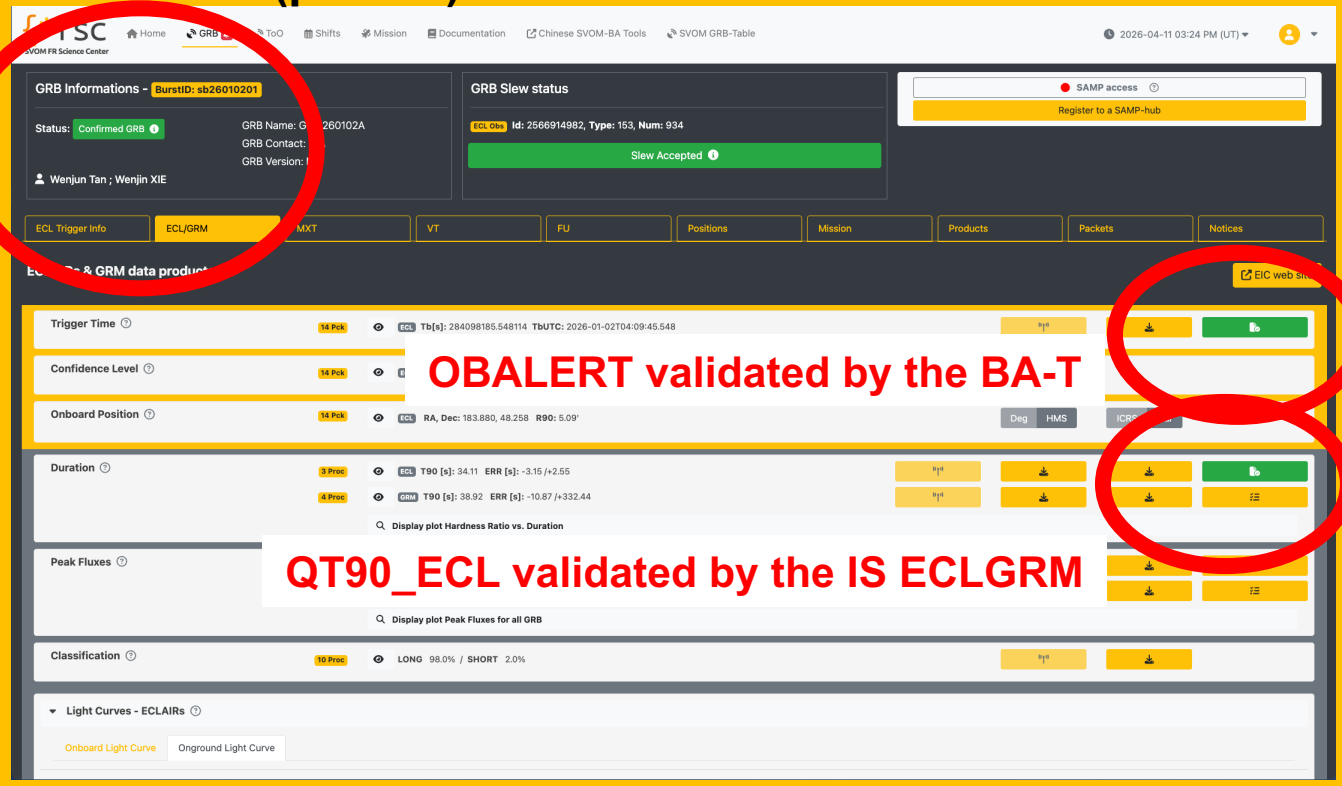
Public GRB Table: GRB list



Validation on iFSC-Tools

sb26010201 = GRB260102A
Trigger status validated by the BA-T

iFSC-Tools (private):

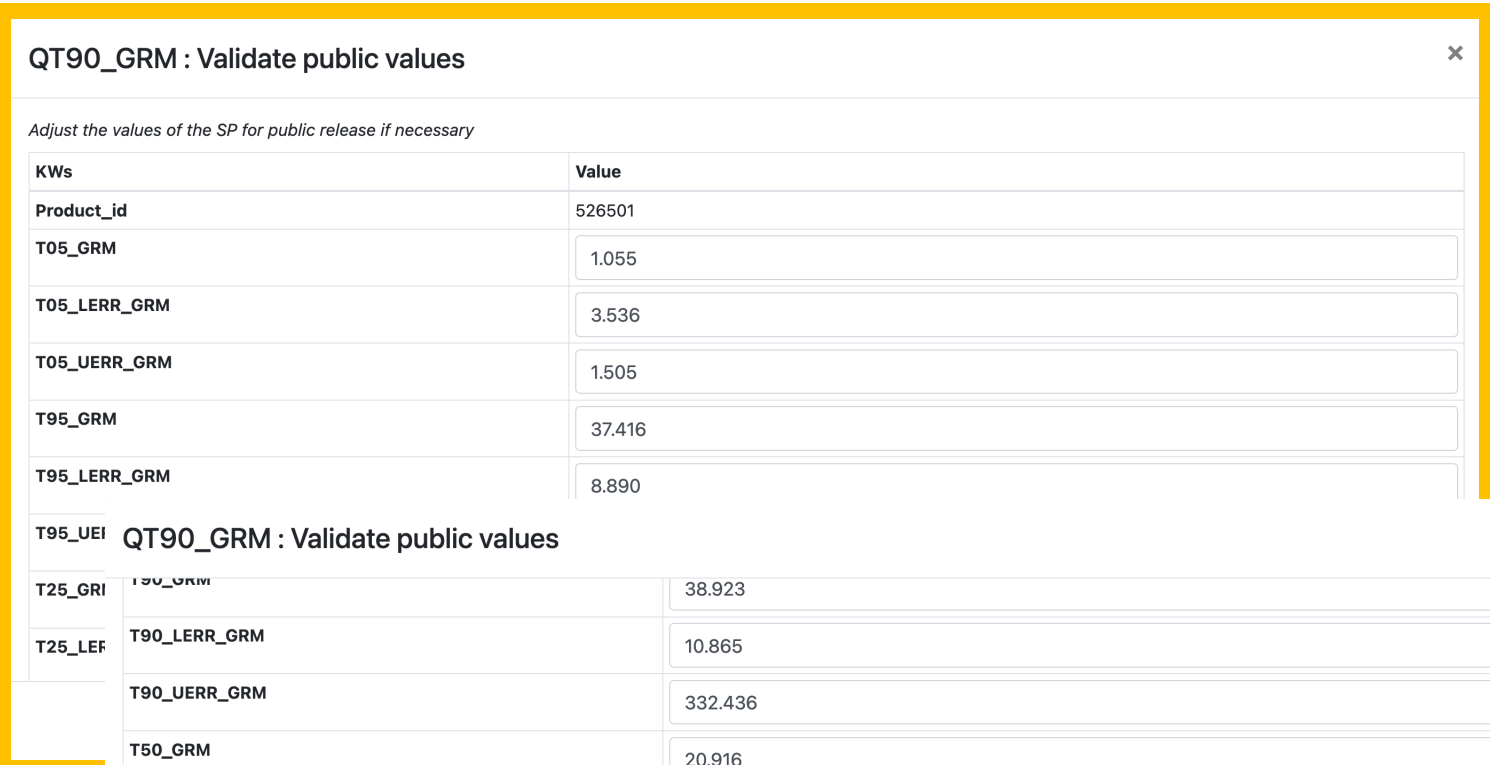


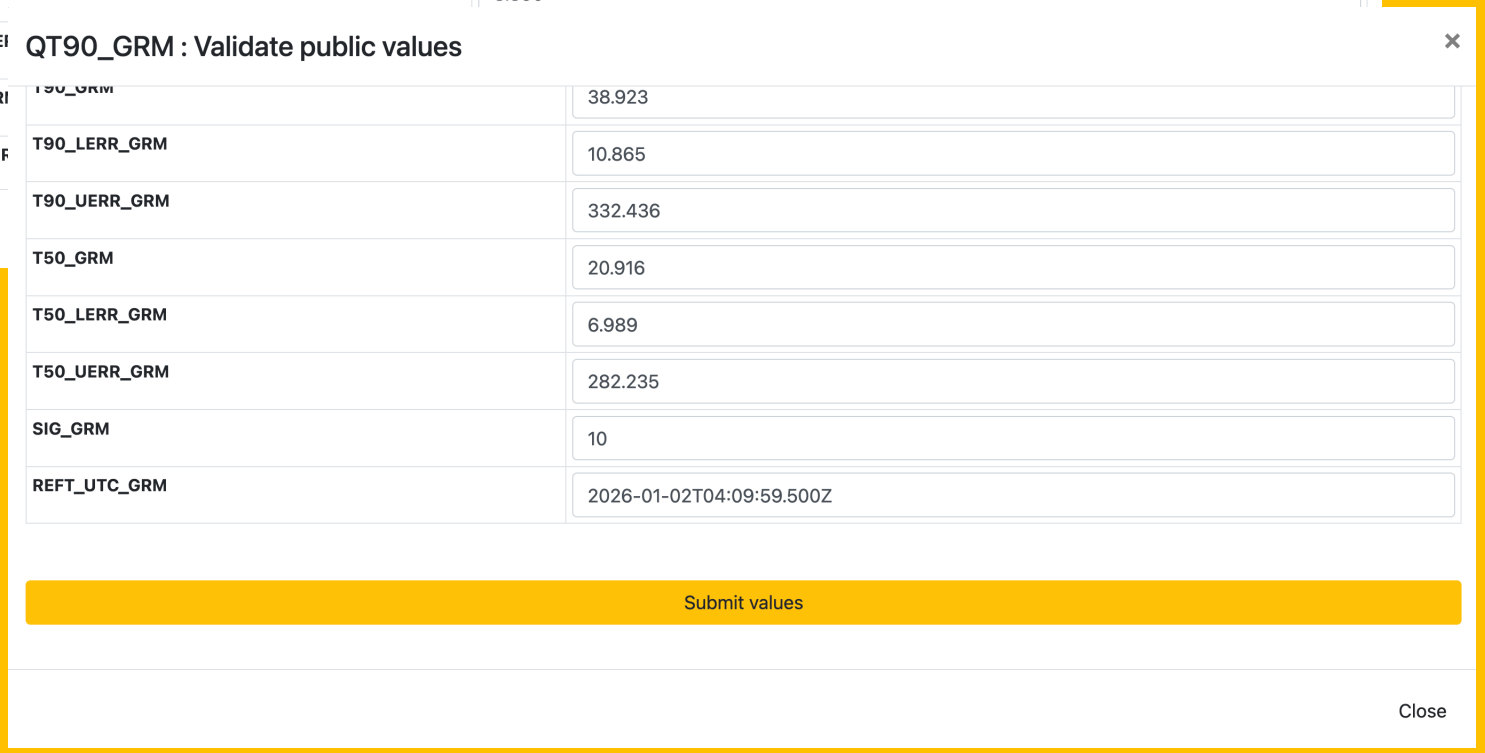
Product validation:
Use the button on the right:

Orange: validation has not been done yet.

Green: validation is done.

Validation on iFSC-Tools: duration





Go to the bottom to find the validation button

If you plan to make these values public, it means that you have validated the duration analysis. So you should not modify the numerical values. Just press the button!

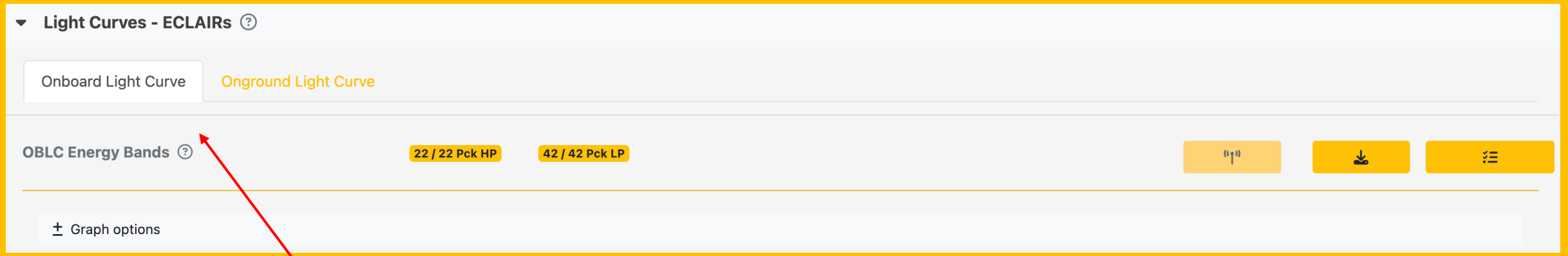
(same for ECLAIRs)

Validation on iFSC-Tools: duration

Confirm the submission!

(same for ECLAIRs)

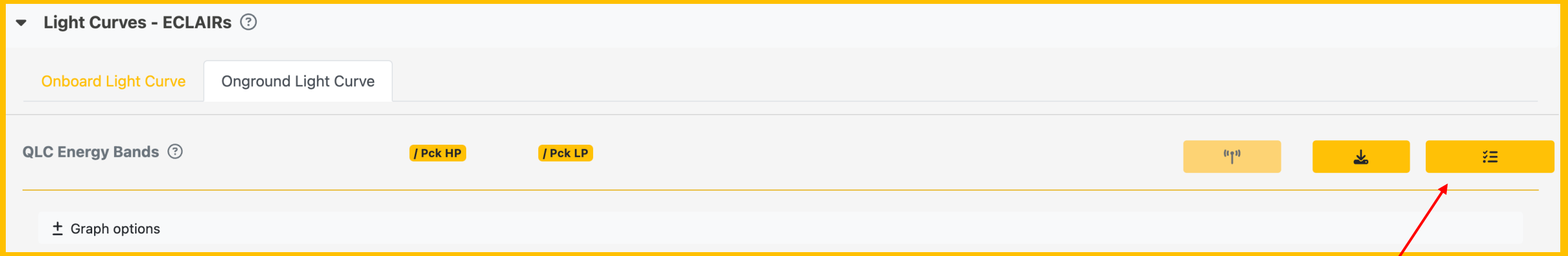
Validation on iFSC-Tools: lightcurves



Select the « Onground Lightcurve »
Warning: it is not natural, but the public version of the on-board lightcurve is computed on ground, within QLC_ECL.

(same for GRM)

Validation on iFSC-Tools: lightcurves

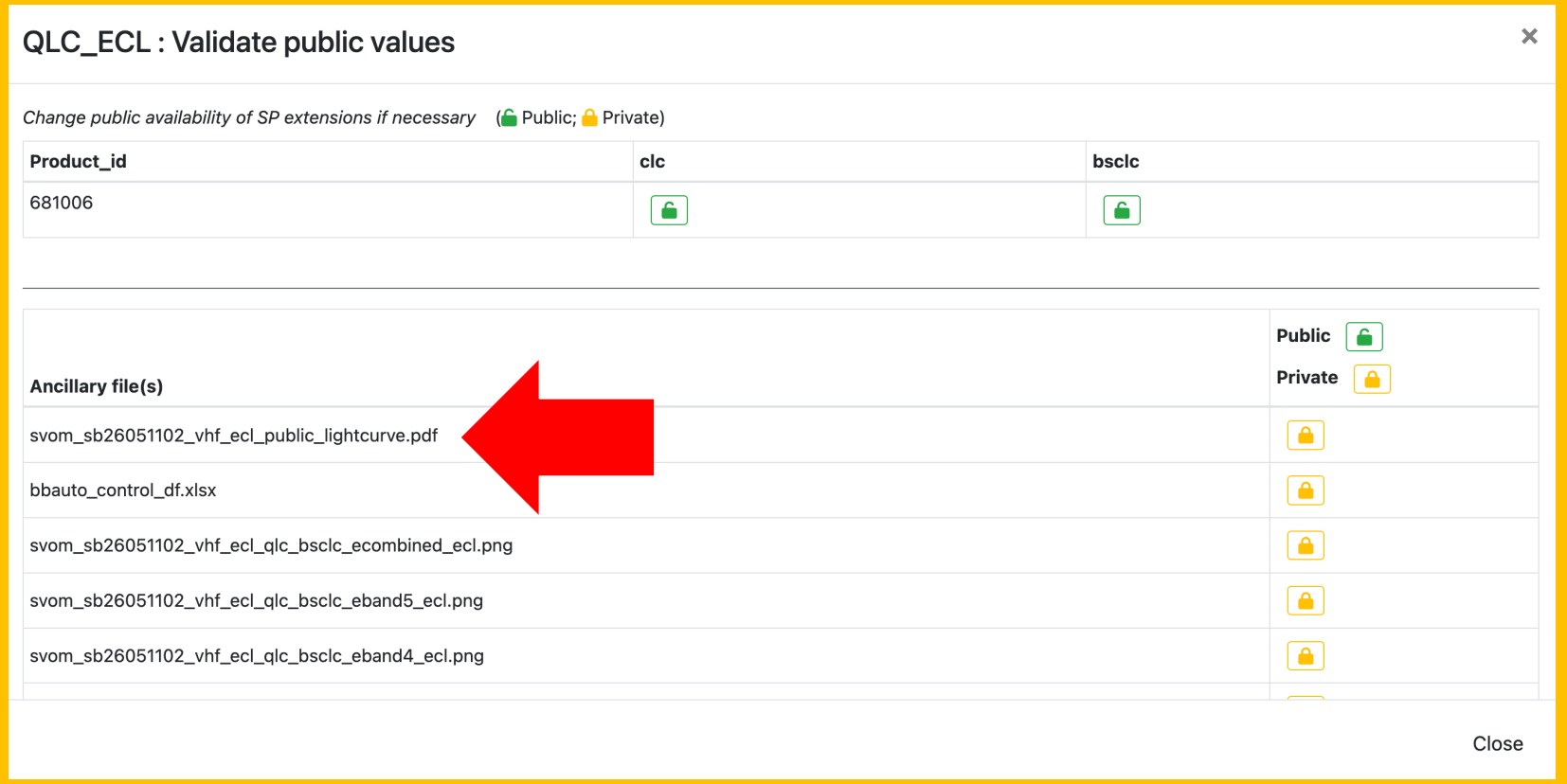


Button to be used

(same for GRM)

Validation on iFSC-Tools: lightcurves

Look for the public lightcurves in the list and validate (1 pdf file and 3 png files).



(same for GRM)

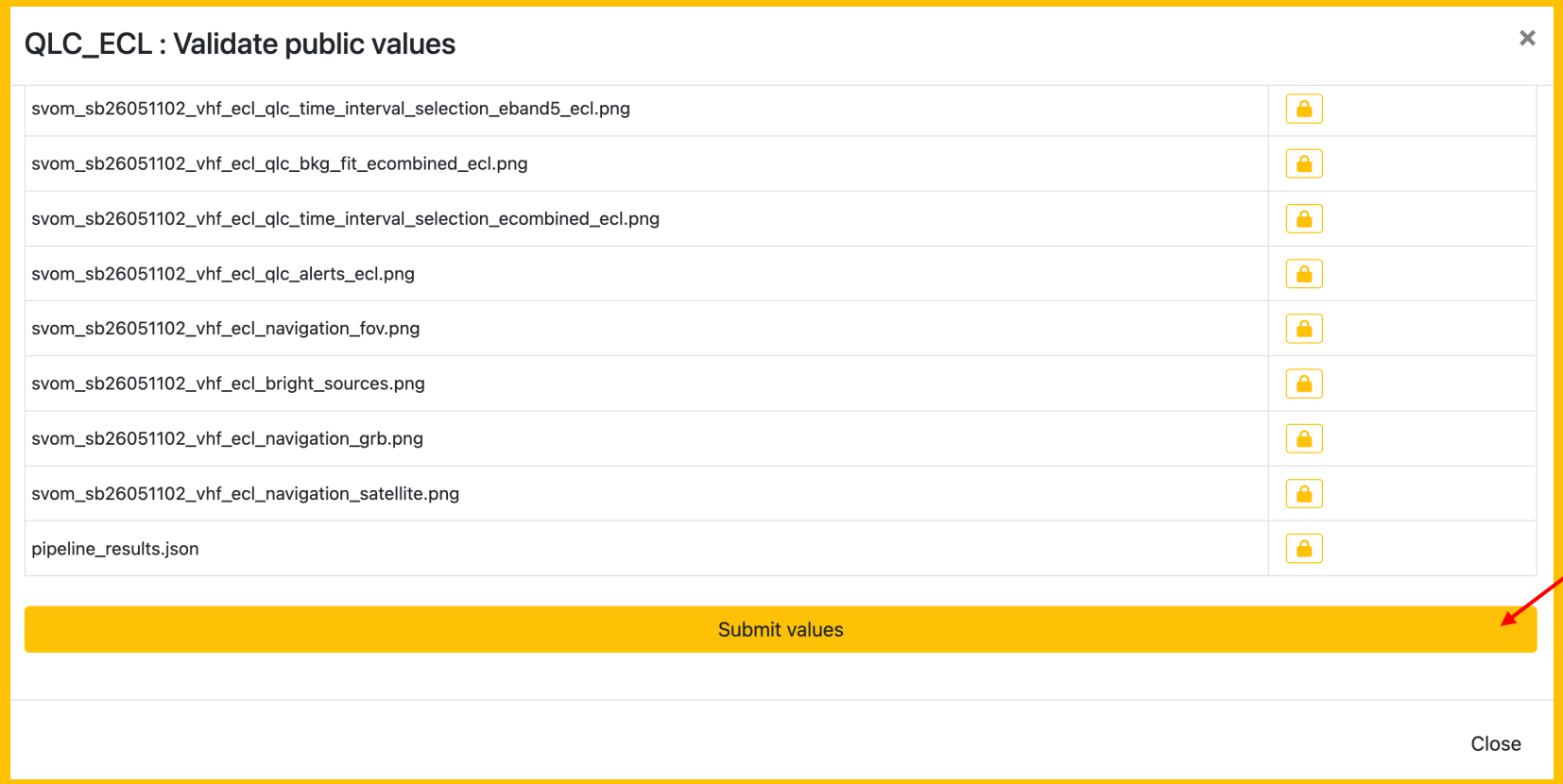
Validation on iFSC-Tools: lightcurves

Look for the public lightcurves in the list and validate (1 pdf file and 3 png files).

(same for GRM)

Validation on iFSC-Tools: lightcurves

Look for the public lightcurves in the list and validate (1 pdf file and 3 png files).



Press the button, then press the second button « Confirm the submission ».

(same for GRM)

Validation on iFSC-Tools: lightcurves

- **By default, the on-board lightcurves should always be validated, even if there is no signal (e.g. in GRM for a ECL-first trigger with a very soft GRB).**
- **Exception: ECL-first with IMT long timescale > 10 min: no lightcurve for ECL and the lightcurve is usually useless for GRM, so should not be validated.**

Updating validated products

- **If a product in SDB has been validated on iFSC-Tools and appear in the GRB Table, what happens if a new version is injected in SDB?**
- **By default the value of the GRB Table is not changed!**
- **But the validation button on iFSC-Tools move back to « orange » instead of « green ».**

Then:

- **If you validate again on iFSC-Tools, the GRB Table is then updated.**

Examples:

- **Check sb26010201: all public products have been validated and appear on the GRB Table.**
- **Real time demo: validation for sb26011705**

Summary:

- **Injecting the products in SDB after a reprocessing is very important:**
  - **to have the best version of the product public on the GRB Table.**
  - **for the upcoming massive reprocessing at FSC: the GRBs will be scanned and reprocessed manually (if needed) starting from the lastest configuration, optimized by the IS.**

- **Validating the public products on iFSC-Tools is very important to fill the GRB Table. Should be done systematically from now.**

- **The list of public products can evolve, IS ECLGRM-VHF will be informed if it is the case. A first change to arrive very soon: button on iFSC-Tools to validate the combined ECL+GRM on-board lightcurve.**

Summary:

- **The GRB Table is a recent feature, please report difficulties, bugs, etc. (@daigne)**