



The ECLGRM-VHF IS Procedure

**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 « Confirmed 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

sb26010201 = GRB260102A
Trigger status validated
by the BA-T

iFSC-Tools (private):

The screenshot shows the iFSC-Tools interface for GRB 260102A. The 'GRB Informations' section shows 'Status: Confirmed GRB' with a green checkmark. The 'GRB Slew status' section shows 'Slew Accepted' with a green checkmark. The 'Trigger Time' section shows '14 Pck' with an orange status. The 'Confidence Level' section shows '14 Pck' with an orange status. The 'Onboard Position' section shows '14 Pck' with an orange status. The 'Duration' section shows '3 Proc' and '4 Proc' with orange status. The 'Peak Fluxes' section shows 'QT90_ECL validated by the IS ECLGRM' with a green checkmark. The 'Classification' section shows '10 Proc' with an orange status. The 'Light Curves - ECLAIRs' section shows 'Onboard Light Curve' and 'Onground Light Curve' with orange status. Red circles highlight the 'GRB Informations' and 'GRB Slew status' sections, and the 'QT90_ECL validated by the IS ECLGRM' section.

OBALERT validated by the BA-T

QT90_ECL validated by the IS ECLGRM

Product validation:

Use the button on the right:



Orange: validation has not been done yet.



Green: validation is done.

Validation on iFSC-Tools: duration

QT90_GRM : Validate public values

Adjust the values of the SP for public release if necessary

KWs	Value
Product_id	526501
T05_GRM	1.055
T05_LERR_GRM	3.536
T05_UERR_GRM	1.505
T95_GRM	37.416
T95_LERR_GRM	8.890



Go to the bottom to find the validation button

T95_UEI QT90_GRM : Validate public values

T25_GRI	T90_GRM	38.923
T25_LEF	T90_LERR_GRM	10.865
	T90_UERR_GRM	332.436
	T50_GRM	20.916
	T50_LERR_GRM	6.989
	T50_UERR_GRM	282.235
	SIG_GRM	10
	REFT.UTC_GRM	2026-01-02T04:09:59.500Z

Submit values

Close

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

QT90_GRM validation ×

T25_LERR_GRM	2.428
T75_UERR_GRM	297.971
T75_GRM	25.545
T75_LERR_GRM	7.322
T75_UERR_GRM	297.971
T90_GRM	38.923
T90_LERR_GRM	10.865
T90_UERR_GRM	332.436
T50_GRM	20.916
T50_LERR_GRM	6.989
T50_UERR_GRM	282.235
SIG_GRM	10
REFT.UTC_GRM	2026-01-02T04:09:59.500Z

Confirm submission (values will be added to the public GRB table)

Close

Confirm the submission!

(same for ECLAIRs)

Validation on iFSC-Tools: lightcurves



A screenshot of the iFSC-Tools web interface. At the top, there's a dropdown menu labeled 'Light Curves - ECLAIRS' with a help icon. Below it, two tabs are visible: 'Onboard Light Curve' and 'Onground Light Curve', with the latter being active and highlighted in orange. Underneath the tabs, the 'OBLC Energy Bands' section is shown, containing two yellow buttons: '22 / 22 Pck HP' and '42 / 42 Pck LP'. To the right of these buttons are three more yellow buttons: a zoom-in icon, a zoom-out icon, and a menu icon. At the bottom left of the interface, there is a '± Graph options' button. A red arrow points from the text box below to the 'Onground Light Curve' tab.

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



▼ Light Curves - ECLAIRS ⓘ

Onboard Light Curve Onground Light Curve

QLC Energy Bands ⓘ / Pck HP / Pck LP [Quote] [Download] [Menu]

± Graph options

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).

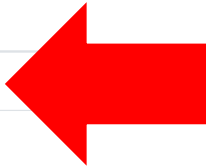
QLC_ECL : Validate public values ×

Change public availability of SP extensions if necessary (🔒 Public; 🔒 Private)

Product_id	clc	bsclc
681006		

Ancillary file(s)	Public	Private
svom_sb26051102_vhf_ecl_public_lightcurve.pdf		
bbauto_control_df.xlsx		
svom_sb26051102_vhf_ecl_qlc_bsclc_ecombined_ecl.png		
svom_sb26051102_vhf_ecl_qlc_bsclc_eband5_ecl.png		
svom_sb26051102_vhf_ecl_qlc_bsclc_eband4_ecl.png		

Close



(same for GRM)

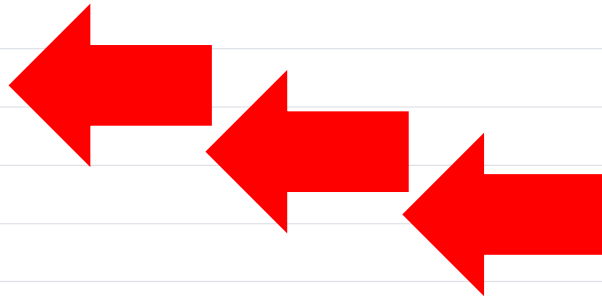
Validation on iFSC-Tools: lightcurves



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

QLC_ECL : Validate public values	
svom_sb26051102_vhf_ecl_qlc_bsclc_eband5_ecl.png	
svom_sb26051102_vhf_ecl_qlc_bsclc_eband4_ecl.png	
svom_sb26051102_vhf_ecl_qlc_bsclc_eband3_ecl.png	
svom_sb26051102_vhf_ecl_qlc_bsclc_eband2_ecl.png	
svom_sb26051102_vhf_ecl_qlc_bsclc_eband1_ecl.png	
svom_sb26051102_vhf_ecl_qlc_bsclc_all_ebands_ecl.png	
svom_sb26051102_vhf_ecl_public_lightcurve_hrsamples_ecl.png	
svom_sb26051102_vhf_ecl_public_lightcurve_mrsamples_ecl.png	
svom_sb26051102_vhf_ecl_public_lightcurve_lrsamples_ecl.png	
svom_sb26051102_vhf_ecl_oblc_ecombined_ecl.png	
svom_sb26051102_vhf_ecl_qlc_bkg_fit_eband1_ecl.png	

Close



(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).

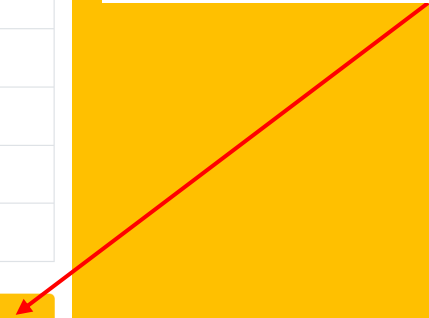
QLC_ECL : Validate public values ×

svom_sb26051102_vhf_ecl_qlc_time_interval_selection_eband5_ecl.png	
svom_sb26051102_vhf_ecl_qlc_bkg_fit_ecombined_ecl.png	
svom_sb26051102_vhf_ecl_qlc_time_interval_selection_ecombined_ecl.png	
svom_sb26051102_vhf_ecl_qlc_alerts_ecl.png	
svom_sb26051102_vhf_ecl_navigation_fov.png	
svom_sb26051102_vhf_ecl_bright_sources.png	
svom_sb26051102_vhf_ecl_navigation_grb.png	
svom_sb26051102_vhf_ecl_navigation_satellite.png	
pipeline_results.json	

Submit values

Close

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



(same for GRM)

- **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 latest 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)**