Analysis/Validation of typical cases——Real triggers

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Follow the trigger validation method and tasks

https://forge.in2p3.fr/projects/etog-validation/wiki/Trigger_Advocate_procedure

1. **sb25031701:**

   4 IMT and 9 CRT，SnrMax=14.27, slewed，subimage is perfect, no known source in the error circle, slew, MXT QF= 3/4

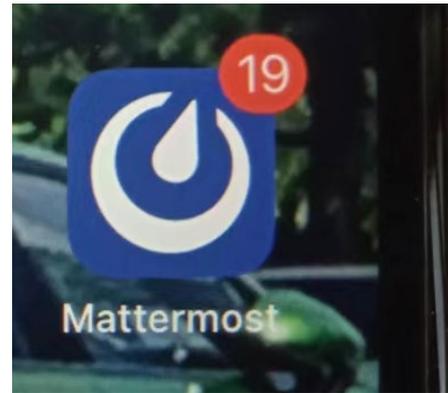2. **sb25112901:**

   5 IMT, SnrMax=8.8, SnrStd= 1.15, MXT QF=4

3. **sb25120502：faint and only one alter**

   1 IMT, 20s, SnrMax=6.58, SnrStd =1.01, SnrDiffMax2=2.68, 8-50 keV A point like source on the subimage, satellite is on the narrow gap between 2 SAA-EXT. a High Proper Motion star (LP 777-23) 7 arcmin from the ECL position.

Mobile phone APP

PC

Go through validations of 3 cases step by step

sb25031701, sb25112901, sb25120502

Mattermost： https://svack.lal.in2p3.fr/svom/channels/etog-triggers-validation

Alert Notice： https://fsc.svom.org/alerts

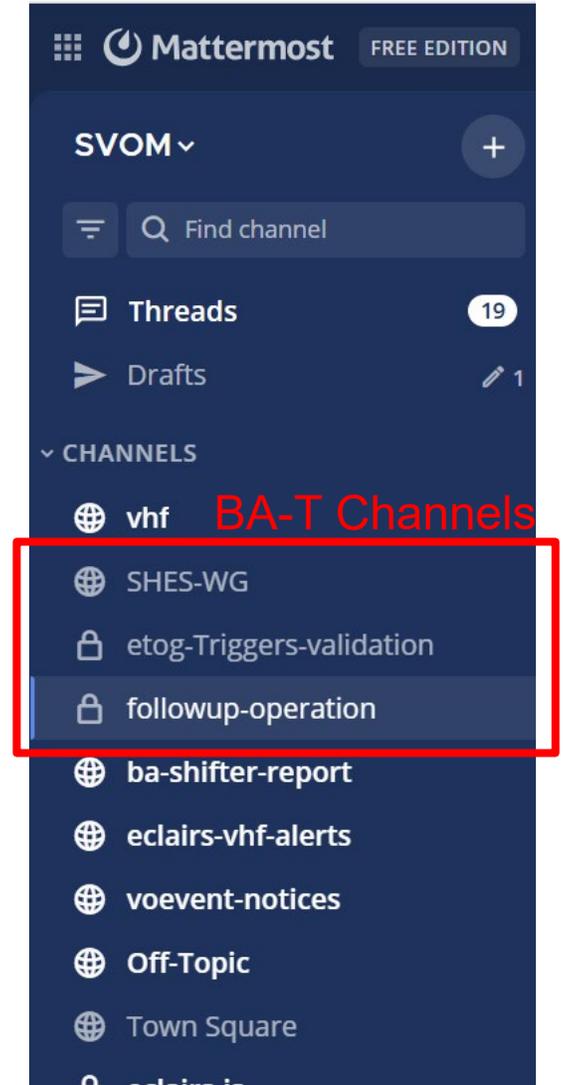ifsc tool： https://fsc.svom.org/ifsc-tools/grb

ETC： https://fsc.svom.org/etc-trigger/ext/

Grafana: https://admin.svom.eu/grafana/d/debxuf286ytj4d/observation-and-payload-status?var-customInterval=1m&orgId=1&from=2026-03-12T00:00:00.000Z&to=2026-03-13T23:59:59.000Z&timezone=utc

SAA： https://eic.irap.omp.eu/planisphere/map

Mattermost: https://svack.lal.in2p3.fr/svom/channels/followup-operation
https://svack.lal.in2p3.fr/svom/channels/shes-wg

Steps after validation conclusion

Icon	Shortcut	Meaning
❌	:x:	False trigger
✅	:white_check_mark:	Real trigger
💥	:boom:	GRB candidate
💫	:dizzy:	Known source
❓	:question:	Uncertain

➡️ Retraction

➡️ Notice release & HE-GCN writing

March 17, 2025

vhf-data-monitor BOT 10:12 AM

sb25031701 [GRB-INIT-401]

open the 'Reply' thread to discuss this trigger validation

👀 1 ✅ 1 💥 1

↩ 17 replies   Following

H **hatsunegoto** 3:14 PM

sb26021802: Flare from TYC 4162-1051-1?

✏ Edited

H ↩ 1 reply   Follow

M **marius_brunet** 7:07 PM

ECL_260215_0120 Burst from 4U 1636-536

{*fsc
SVOM FR Science Center

🏠 Home   📡 GRB   📞 ToO   📅 Shifts   ✳ M

GRB Informations - BurstID: sb25031701

Status: Confirmed GRB ⓘ

GRB Name: N/A
GRB Contact: N/A
GRB Version: N/A

👤 Chao Wu / Donghua ZHAO, Yinuo Ma

BURST_ID	INSERTION TIME (UTC) ↕	NOTICES
> sb25031701	2025-03-17T02:12:57	grm-preliminary grm-trigger grm-refined 🔒 eclairs-preliminary eclairs-wakeup 🌐 eclairs-refined 🔒 eclairs-grm_hr 🔒 slewing mxt-initial_qf4 🌐 vt-candidate retraction GCN 39752 GCN 39753 GCN 39763

What should we do about alert notice for the ? Cases ?

BURST_ID	INSERTION TIME (UTC) ↕	NOTICES
＞ sb25120502	2025-12-05T02:57:54	grm-preliminary · grm-trigger · grm-refined 🔒 · eclairs-preliminary · eclairs-wakeup 🔒 · eclairs-refined 🔒 · eclairs-grm_hr 🔒 · not-slewing · mxt-initial · vt-candidate · retraction