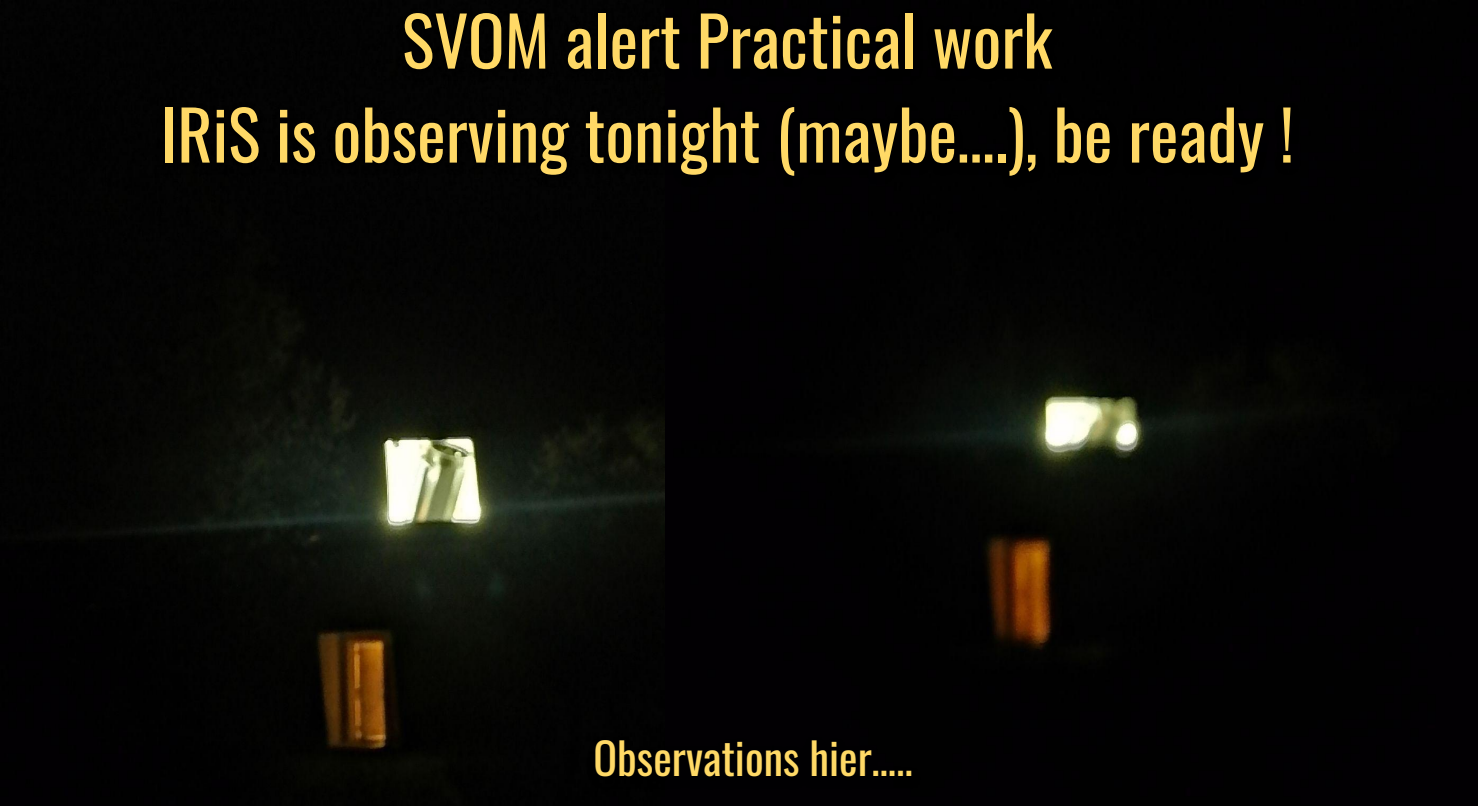
SVOM alert Practical work
IRiS is observing tonight (maybe....), be ready !



Observations hier.....

Damien Turpin (CEA), Henri Louvin (CEA) & Stéphane Basa (LAM)

with the Collaboration of
Chrystel Moreau (LAM) for the iFSC-tools

SVOM workshop @OHP
April, 7th 2022

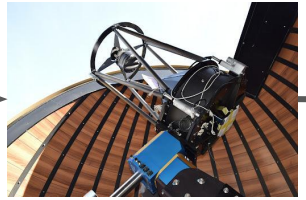
The SVOM/IRiS working environment

Follow-up loop : receive alerts / Observe them / Perform analysis of the images / Search for transients / produce sci. products

French Science Center
contact: H. Louvin

FSC broker

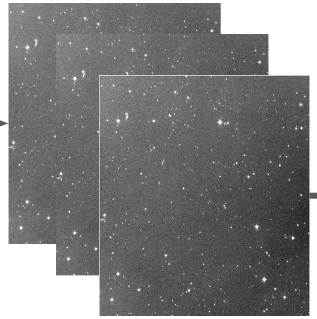
sends alert (VOE)



The IRiS telescope system
contact: S. Basa

follow_up obs

of svom sb21XXXX burst alert



The SVOM/IRiS image repo
contact: S. Basa & IRiS team

Image analysis pipeline
contact : D. Turpin

Communication tools

zoom

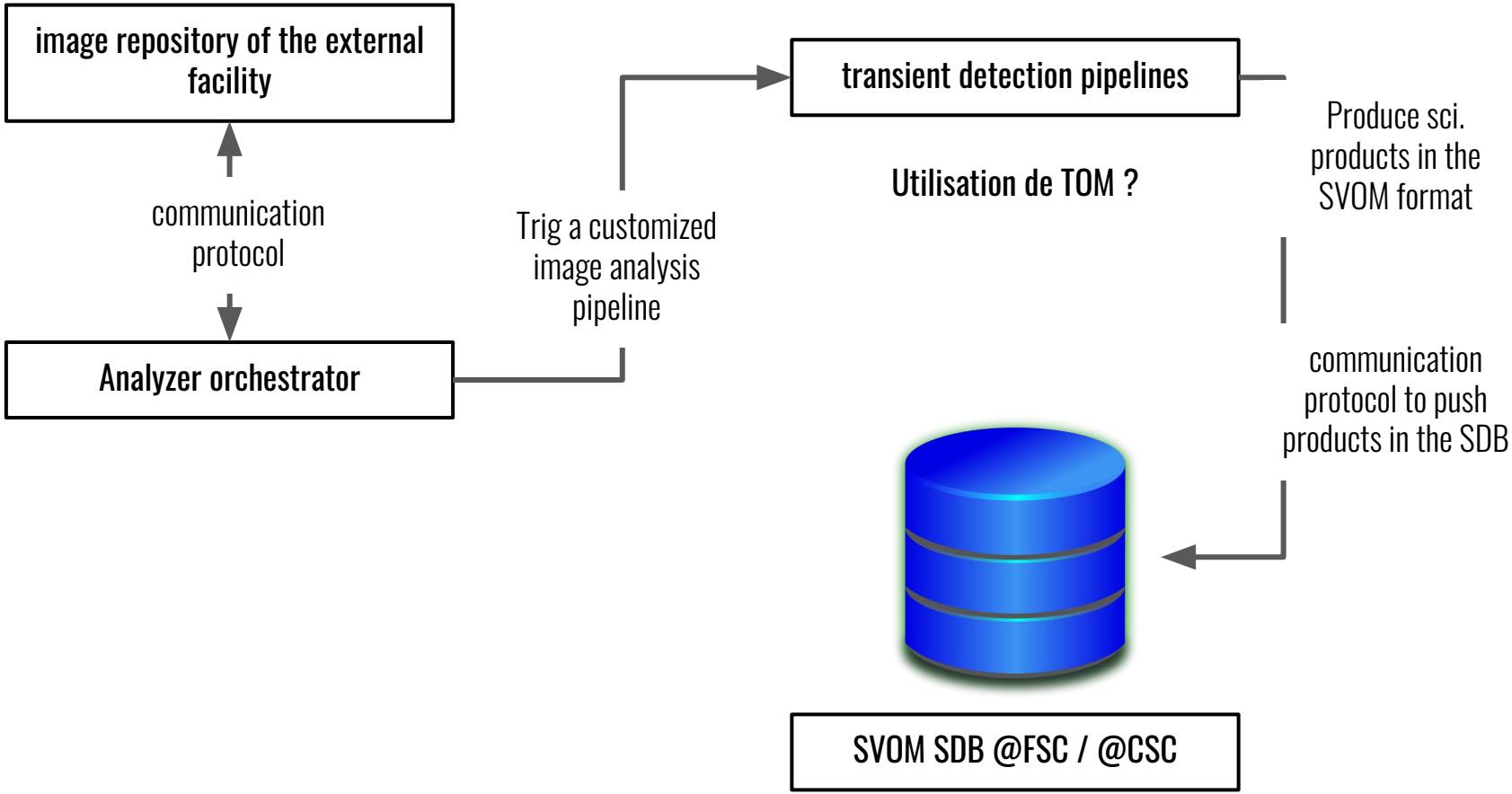
slack

To debrief

live discussion when an alert sequence is started

H. Louvin, S. Basa & D. Turpin

Proposal for external partners (at least for photometric data)



SVOM / IRiS ToO follow-up system

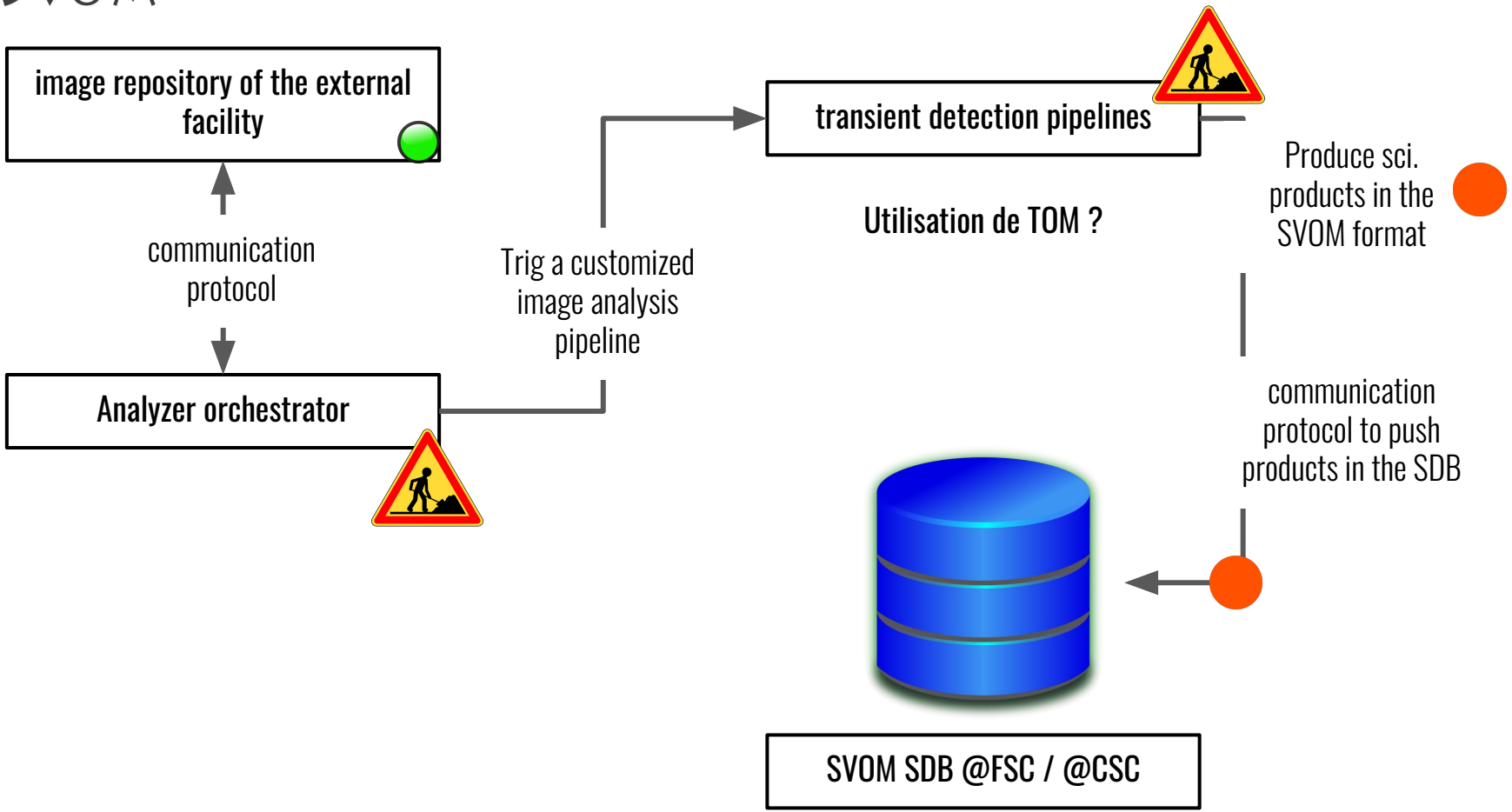


image analysis : pre-processing

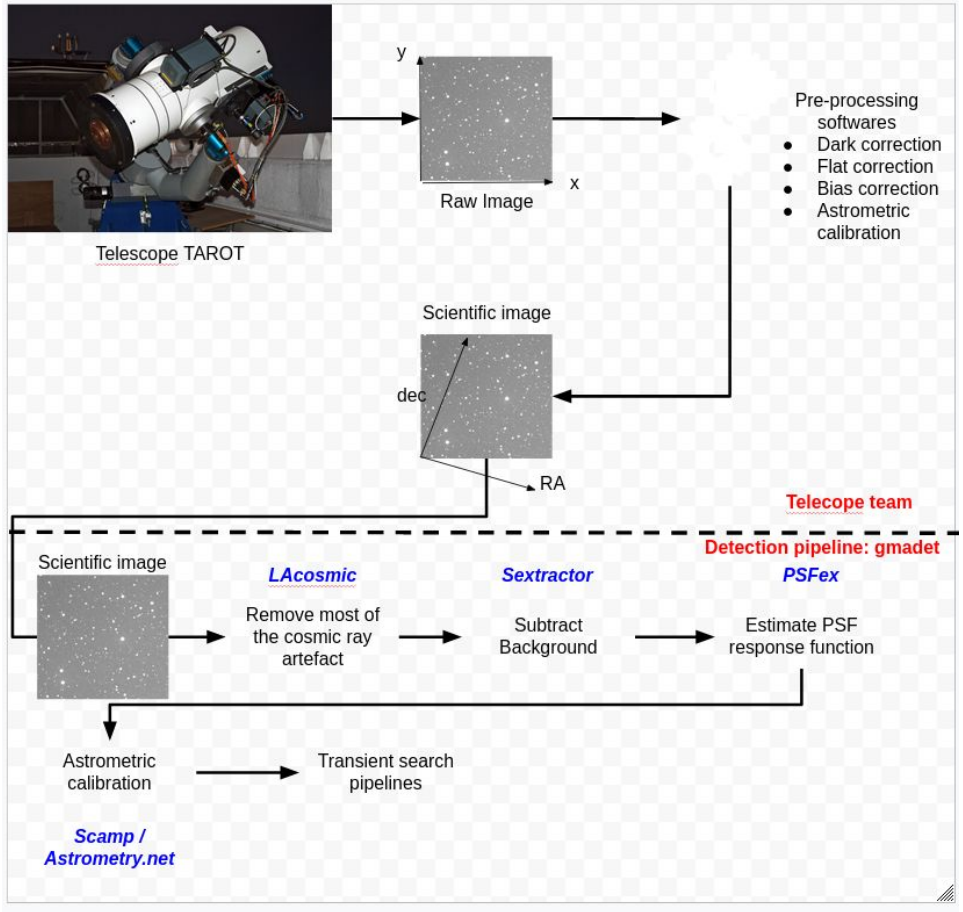
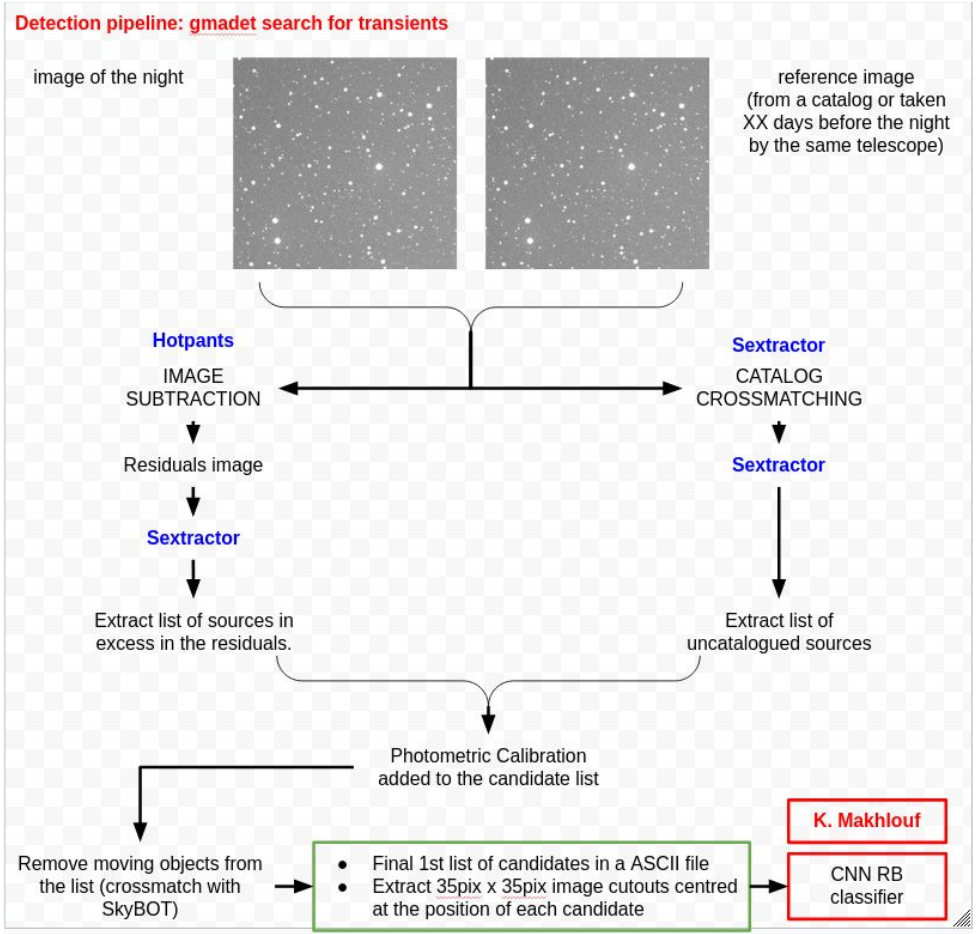


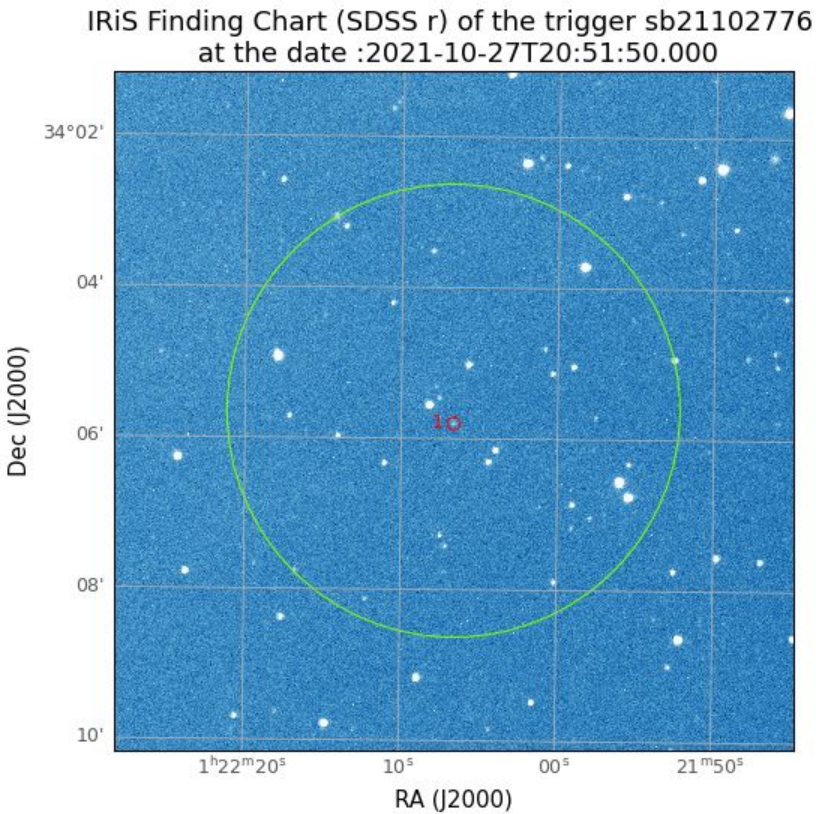
image analysis : search for transients

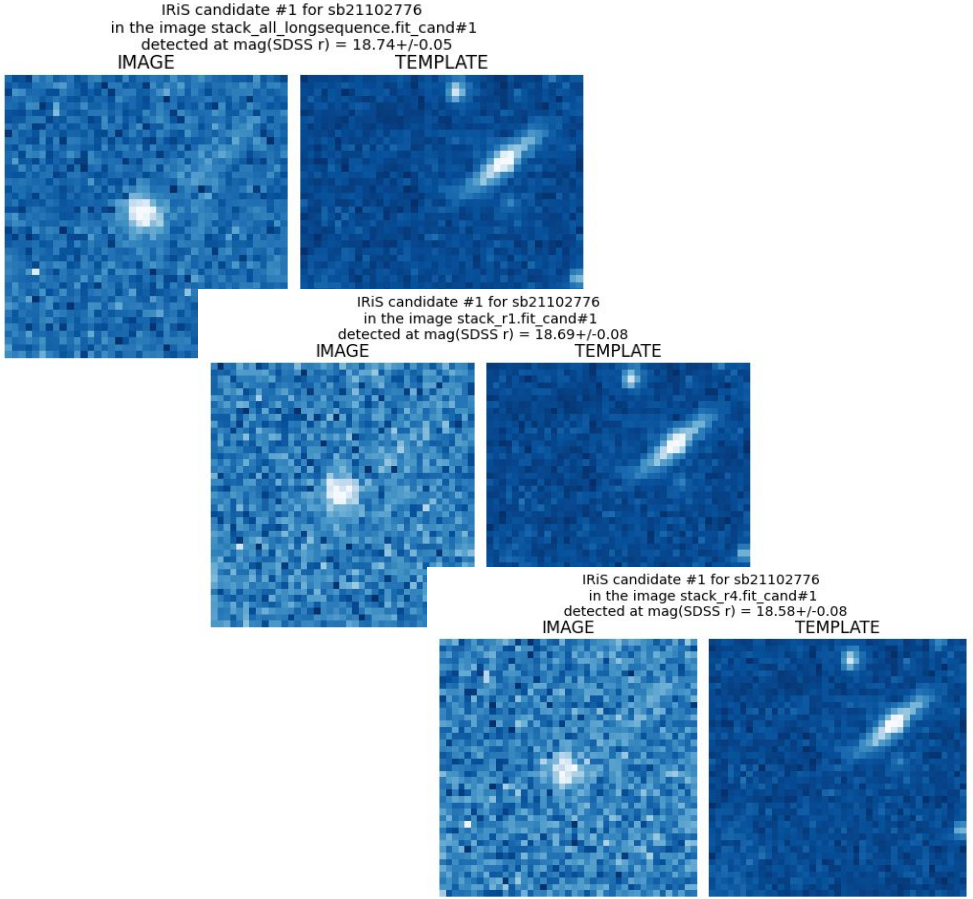


Transient detection pipelines : we are testing STDPipe (publicly available)

functionality	STDPipe https://github.com/karpov-sv/stdpipe	Software / default catalog references
image pre-processing	✗	
astrometric calibration	✓	SCAMP, Astrometry.NET
photometric calibration	✓	PanSTARRS, NOMAD, GAIA, USNO, etc.
image stacking	✓	SWarp, Montage
Source extraction	✓	Sextractor
catalog crossmatching	✓	PanSTARRS sub-images, HiPs service CDS
image subtraction	✓	Hotpants
cosmic-ray filter	✓	LAcosmic,
Minor Planet checker	✓	SkyBot, MP checker
Real/Bogus CNN filter	✗ (TB integrated)	O'TRAIN

Some typical products : we are testing STDPipe (publicly available)





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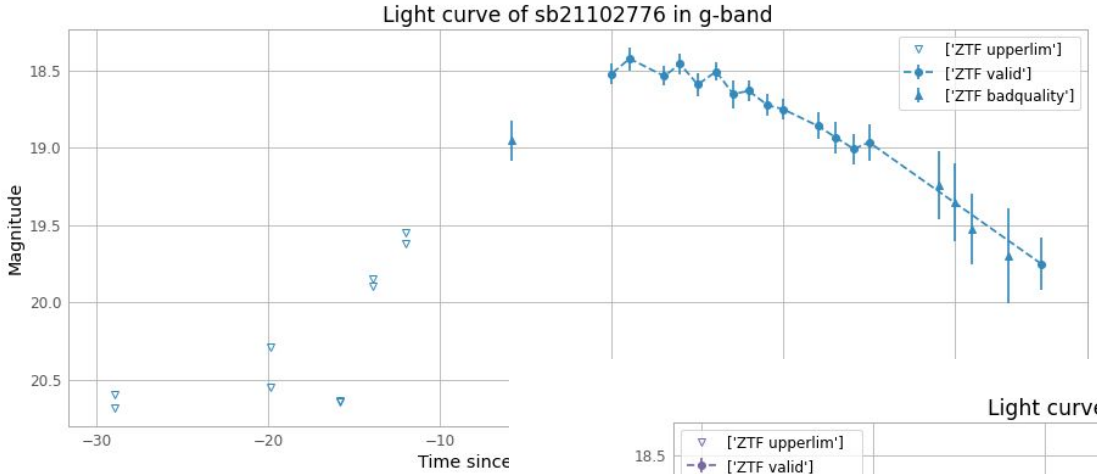
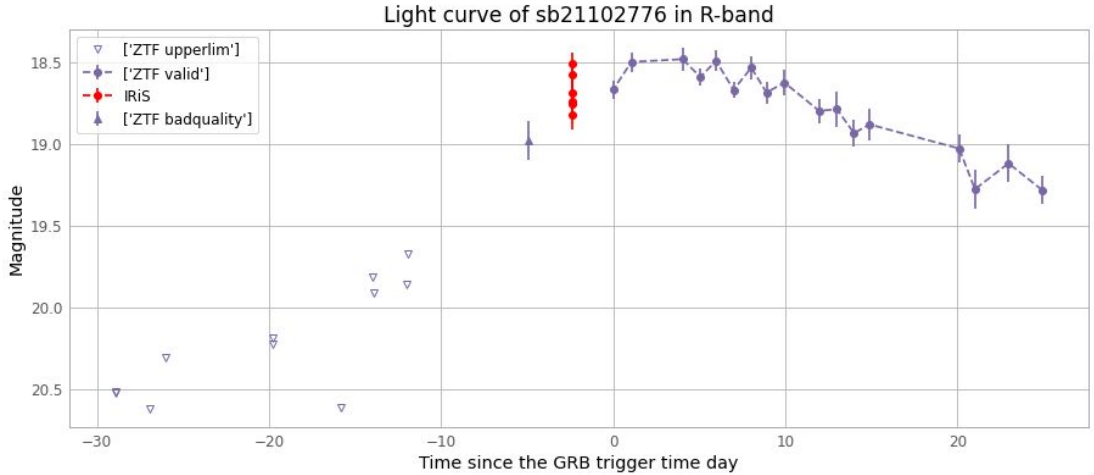


crossmatch avec BD



Our targets tonight

2 recent SN (brighter than r~18)

- ZTF22aadpuwe/SN2022fuc : (g ~ 17.13) on 2022-04-05 10:49:26 UTC -> alert at 22h30 local time coordinates 188.6426901 +63.5184449

- ZTF22aaddorn/SN2022eyj : (r ~ 16.61) on 2022-04-02 09:35:53 UTC -> alert at 23h30 local time coordinates 169.502291106 +7.8457608737

Prepare yourself !!!!!

Connect to SVOM SLACK

Connect to iFSC-tools

Connect to Astro-COLIBRI

WE MEET AT BUILDING NEAR
THE COFFEE BREAK AREA!!!!

10.00 pm