

The RAPAS network

Réseau Amateurs Professionnels pour les Alertes Scientifiques

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Société Astronomique de France

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Institut d'Astrophysique de Paris

Christian BUIL,
Astronomical Ring for Access to Spectroscopy, ARAS Aude, France
and **RAPAS members**

The RAPAS network

- Funded by Scientific council of Paris Observatory
- Action Pluriannuelle Incitative : API ProAm
- Starting in 2022, continued in 2023, 2024, 2025
- Increasing number of alerts for observations
 - Gaia : Gaia-FUN-SSO & astrophys. Alerts (2016-2025) & Follow up (+ 2025)
 - Atlas, ZTF, ASAS-SN, BHTOM...: SN, GRB,...need optical counterparts of transients
 - Next: In the era of LSST, numerous alerts will be triggered
- Benefits of working with amateurs

The RAPAS network

- Number of observers, flexibility, long term follow up
- rapid response to alerts
- Geographic coverage
- Combating adverse weather conditions

...but need for guidance and coordination

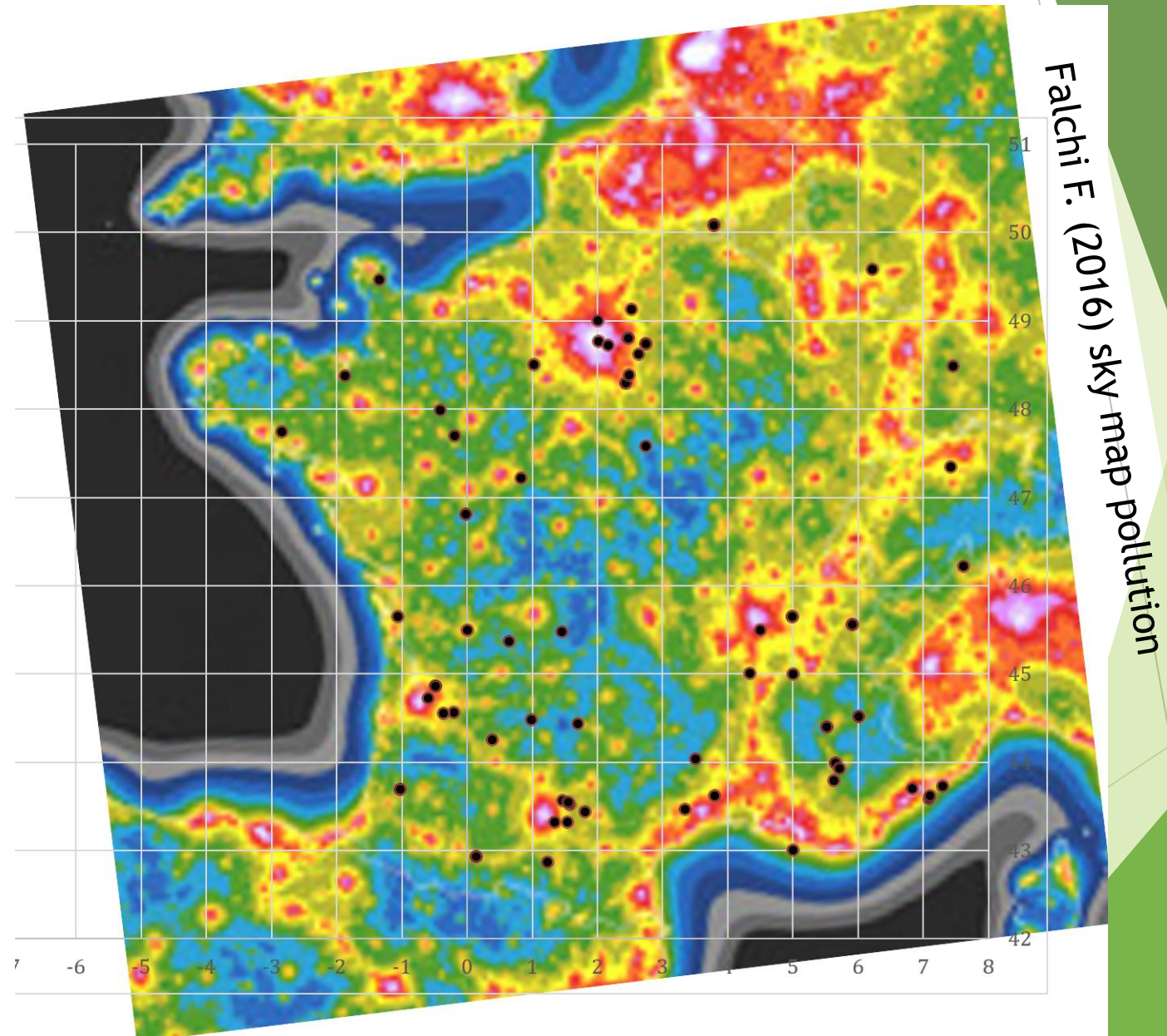
The RAPAS network

- 2022-2023-2024: Annual workshops at Paris Observatory
- 2025: Observations on alert and workshop at Haute Provence Obs. (OHP IAU 511)
- Web pages: <https://rapas.imcce.fr>
and <https://gemini.obspm.fr/20220101-rapas/>
- mailing list: RAPAS@groups.io
- Monthly RAPAS teleconf

The RAPAS network

96 French amateurs
using 60 telescopes or
shared observatories
in France
+10 abroad

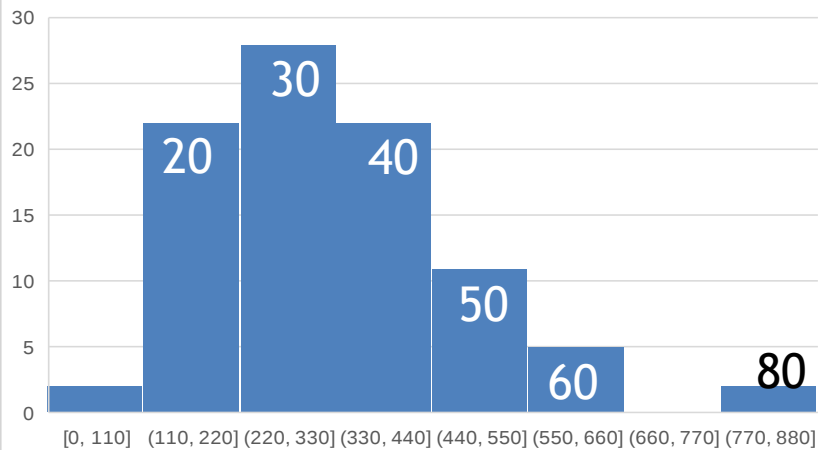
Club Eclipse
ARAS AUDE
Dauban Grappa
TJMS Buthiers CPS Planète Sciences
AT60
Adagio Observatoire de Belestia
Astroclub Charantais
Société Astronomique de Touraine
Observatoire de Dax
Observatoire Rosheim - TRBL
Uranoscope de l'Île de France
Observatoire des Pises
Observatoire Saint Pardon de Conques
CEPHEE73
Observatoire de Benayes
Deep Sky Chile
Observatoire des Baronnie Provençale
Astronomie Gironde 33
Escalier aux étoiles
Obs du Clocher de Brantôme en Périgord



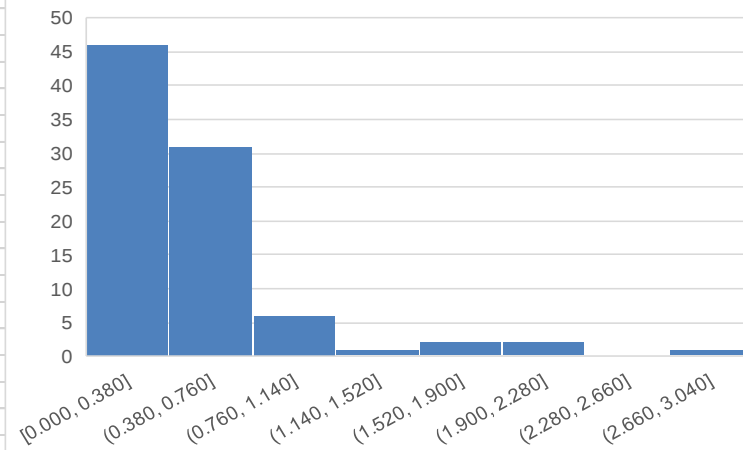
The RAPAS telescopes

- Most telescopes have a diameter between 20 and 40 cm
- 10x50cm 5x 60cm and 2x80cm
- Various characteristics (FoV)

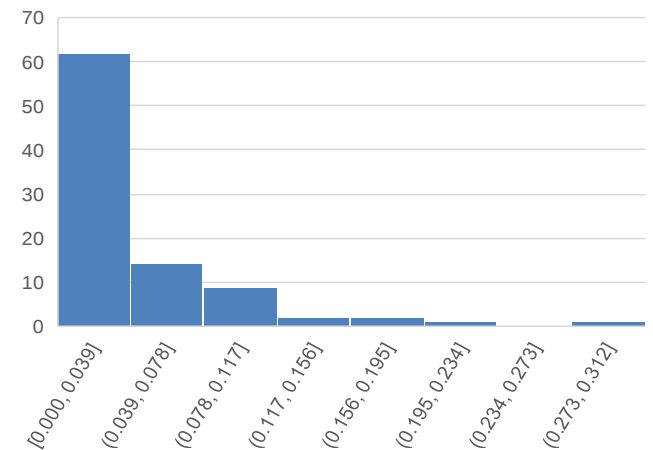
Diameter histogram



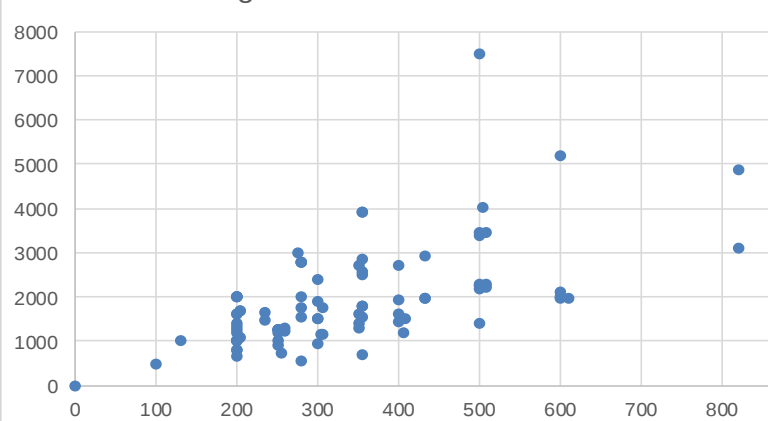
FoV in deg² histogram



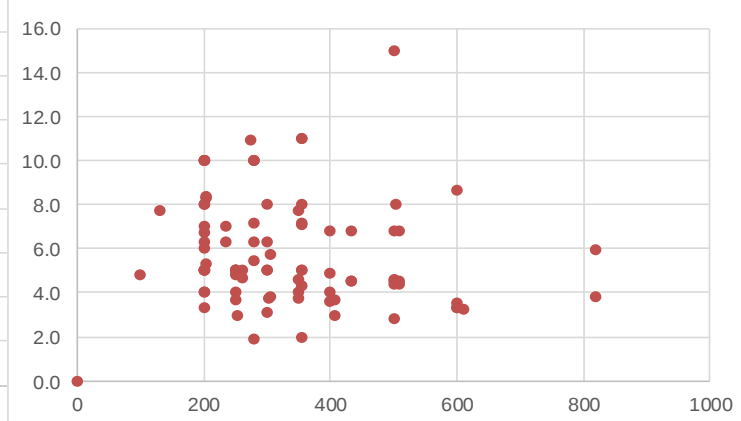
Geometric étendue in m².deg² histogram



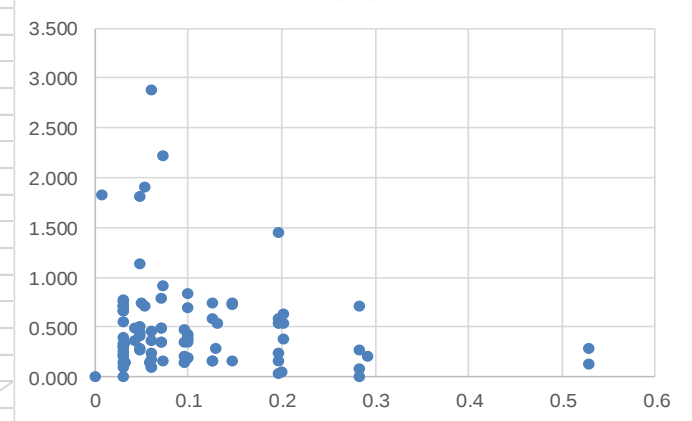
Focal length vs diameter mm



F/D vs diameter

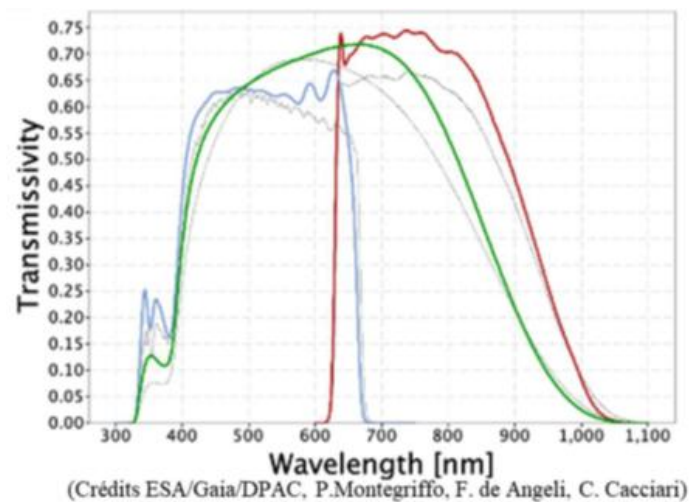


FoV in deg² vs pupil surface in m²

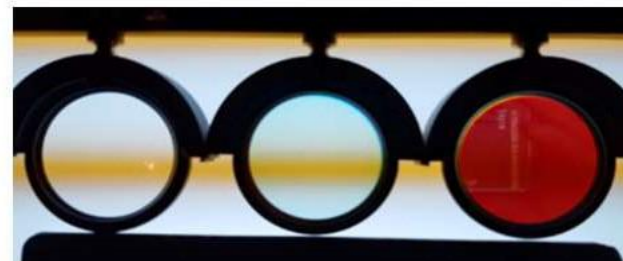


The RAPAS filters

- Goal: use of Gaia bands
- consistency and uniformity of measurements, homogeneity with respect to the Gaia catalog
- design and manufacture (MCM corp.)
- RAPAS A (G), B(Gbp), C(Grp)
- 50 sets provided to amateurs
- + Pic-du-Midi (OMP)
- + Haute-Provence Obs.



The three RAPAS filters : A, B, C



50mmx2mm

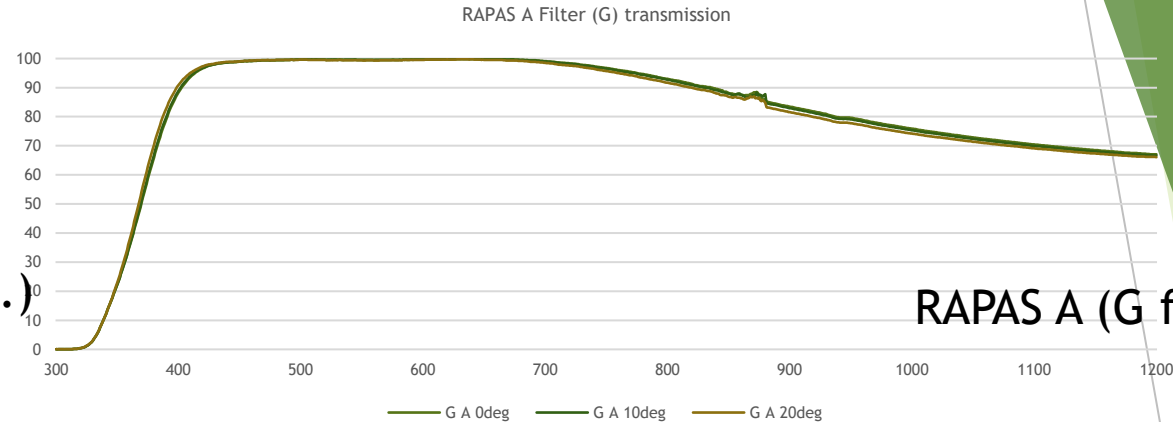


Pictures of the three filters A, B, C set : in 2022 a first batch of 25 filters set was released

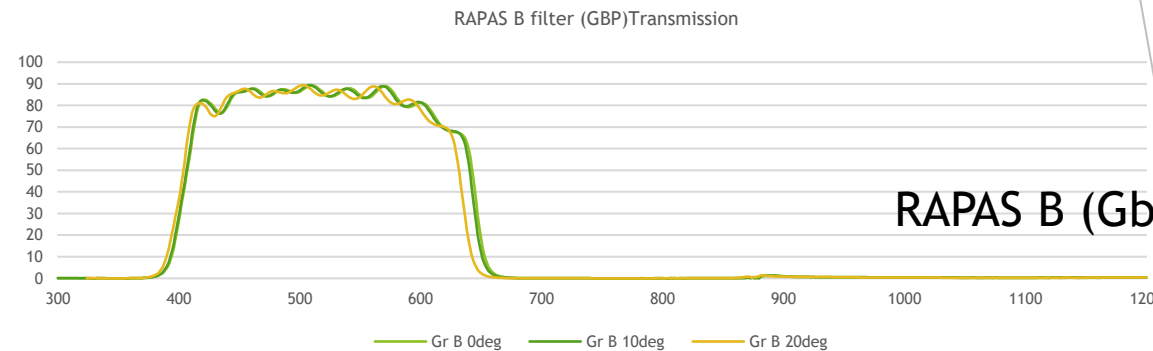
- Packing
- Normal transmission
- Aspect angle transmission
- Reflexion

The RAPAS filters

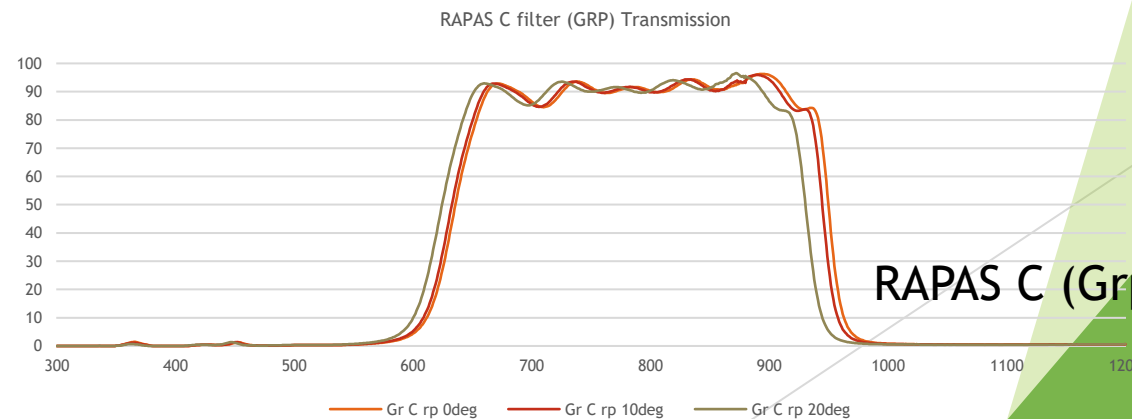
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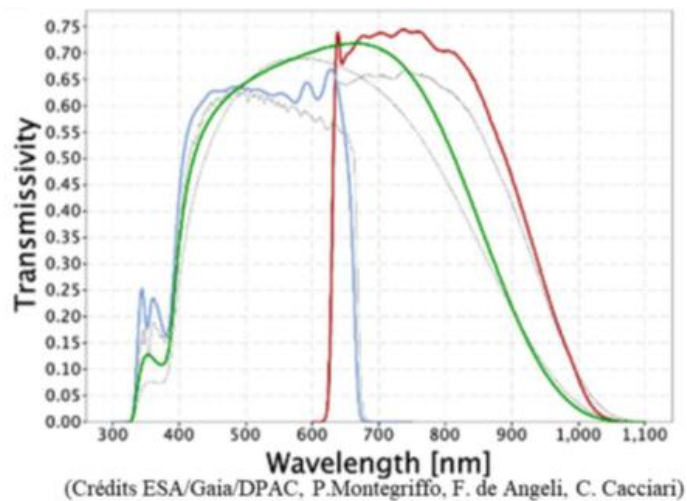
RAPAS A (G filter)



RAPAS B (Gbp filter)



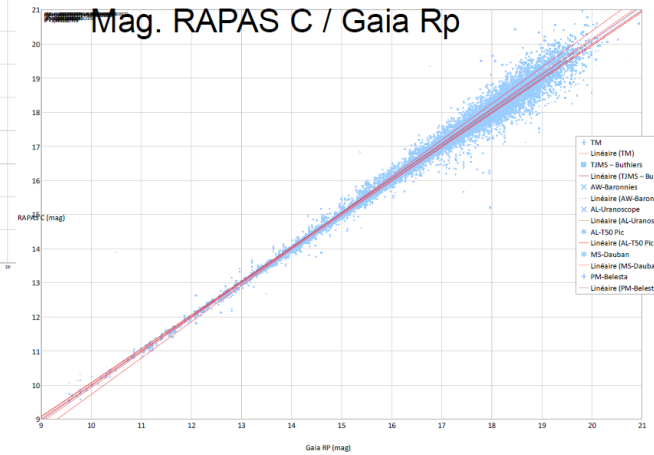
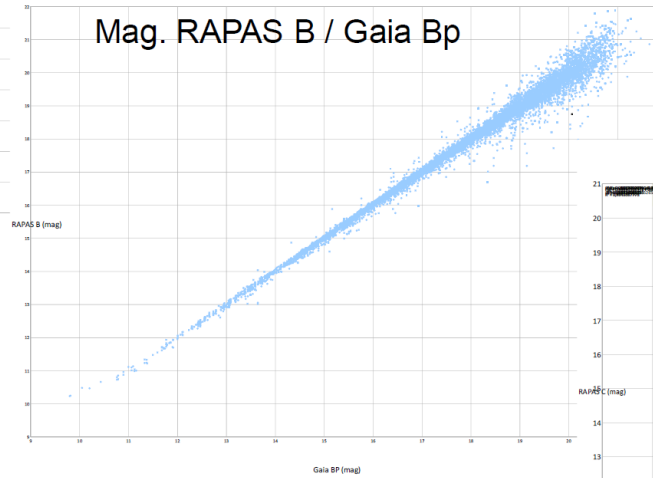
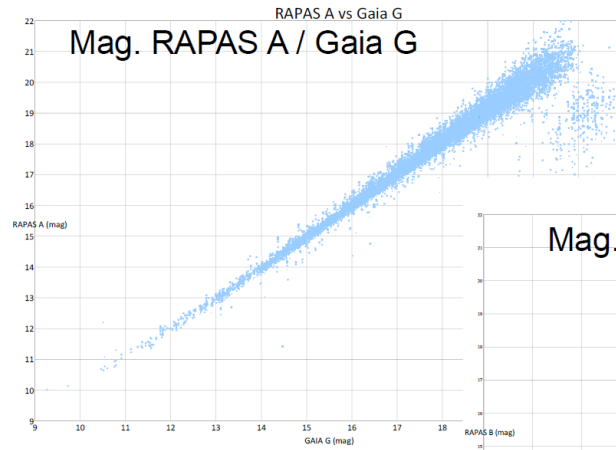
RAPAS C (Grp filter)



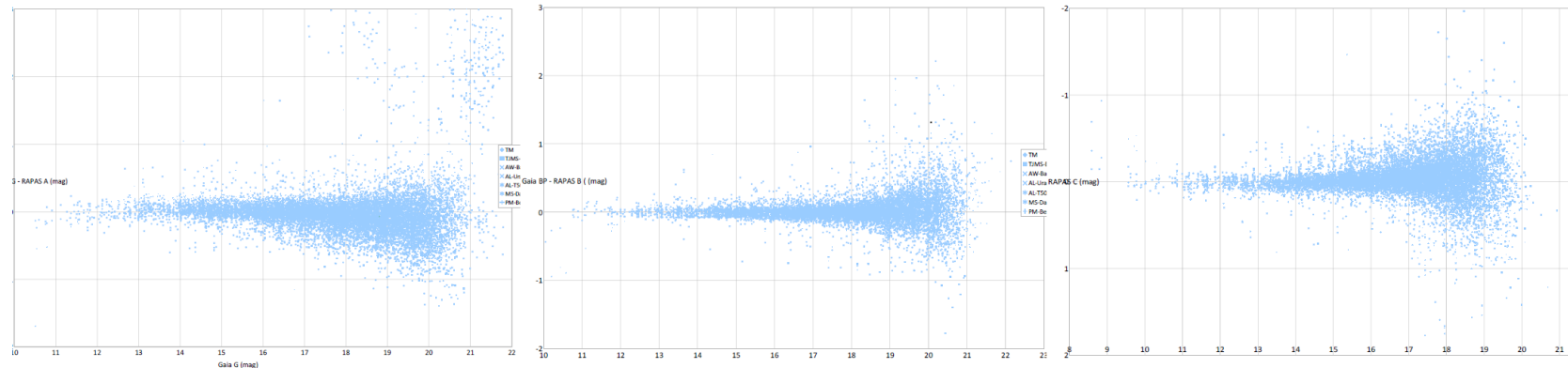
(Courtesy M. Grandidier & P. Barroy)

The RAPAS filters

Comparison of magnitudes measured using RAPAS filters with G, Gbp, and Grp magnitudes



Courtesy Marc Serrau (400mm, Dauban, TJMS,Eclipse)

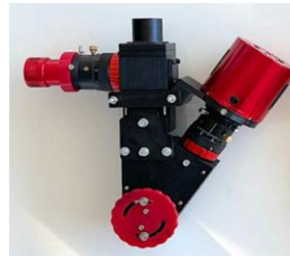


The RAPAS spectrographs

Production of 2 spectrograph prototypes relying on existing spectrographs

Goals:

- to allow high sensitivity for amateur telescopes
- to be able to provide a first characterization of the signature in getting the spectral energy distribution (SED).



R=100 1h exp.

30cm diam.: mag 18

60cm diam.: mag 20

still on test

Ch. Buil
(2023)

- **Alpy 200**

Fitted with a 200g/mm high efficiency transmissive grating instead of grism de 600g/mm with a two slit width (200μm 23μm)

- **Star'Ex VLR (Very Low Resolution)**

Equiped with a reflective 150 g/mm grating and optional objective focal length reduction from 80mm to 40mm

The RAPAS Astro-Colibri pages



Astro-COLIBRI / RAPAS filtering of alerts
Collab. with Fabian SCHÜSSLER et al. (CEA IRFU)

Deliver selected new alerts to RAPAS network,
with low latency, and meeting the amateur constraints:

- Website and phone app
- Alerts filter from a wide range of brokers
- Selection up to ten alerts a week fitted to the RAPAS capability (e-mails)
- Perform the alert monitoring for optical alerts in G Gbp Grp color index
- End of each week alert poll for observers during the week or intending to observe next week :
either we continue the monitoring or we stop it
- Every Friday issue the list of 10 RAPAS targets to follow on the next week
- Open a forum of discussion

The RAPAS Astro-Colibri pages



Astro-COLIBRI / RAPAS filtering of alerts
Collab. with Fabian SCHÜSSLER et al. (CEA IRFU)

<https://forum.astro-colibri.science/c/rapas/>

<https://astro-colibri.com/event:TNS2025rbs>

RAPAS observation

astro.colibri

Please vote for the event(s)

Click on the event names

Please vote for the events

- ☐ SN 2025rbs
- ☐ SN 2025tzip
- ☐ SN 2025sii
- ☐ SN 2025sei
- ☐ SN 2025vaw
- ☐ SN 2025uaq
- ☐ SN 2025xdn
- ☐ AT 2025xto
- ☐ TCP J20143906+0352503
- ☐ AT 2025xuo

☐ Vote now!

Topics

- My posts
- My messages
- More

CATEGORIES

- General
- Latest transients
- Helpdesk + feature r...
- Astronomical Equipm...
- Tilepy
- Astrophotography
- Random astronomic...

TAGS

- astro-colibri
- All tags

CHANNELS

- General
- + Start new DM

Observatories

- Swift
- SVOM
- Fermi
- HAWC
- IceCube
- AMON
- Integral
- GECAM
- FLaapLUC
- LVC
- Catalogs
- Other

Event type

- FRB
- Unclassified OT
- Classified OT
- SN
- GRB
- burst
- neutrino
- nuem
- GW
- 4FGL
- TeVcat
- X-ray
- IceCat

2025-09-19

- AT 2025yqk
Unclassified optical transient
RA/Dec: 93.64°/-26.07°
2025-09-26 02:09:52

2025-09-20

- SN 2025rbs
Supernova
RA/Dec: 339.27° 34.42°

2025-09-21

- GRB 250926A
Gamma-ray burst
RA/Dec: 82.98°/-7.02° (± 1.82°)
2025-09-26 00:21:23

2025-09-22

- GRB 250925A
Gamma-ray burst
RA/Dec: 341.20°/46.57° (± 0.05°)
2025-09-25 17:04:26

2025-09-23

2025-09-24

2025-09-25

2025-09-26

Custom cone search

Source: SN 2025rbs

RA/Dec: deg 339.27° 34.42°

Detailed info about selected source:

last modified: 2025-09-21 14:03:11

name: SN 2025rbs

observatory: GOTO

discovery name: GOTO25evh

detection time: 2025-07-14 03:22:35

localisation:

RA [deg]: 339.27

Dec [deg]: 34.42

RA : 22h37m3.64s

Dec : 34d25m7.96s

error [arcsec]: 0.50

sun distance [deg]: 108.92

E(B-V) [mag]: 0.09

follow-up: RAPAS

detection: 17.07 mag

classification: SN Ia

redshift: 0.00

broker: TNS

External information:

- ALADIN: Displays event in an interactive sky atlas
- ESASky: Displays event in an interactive sky atlas
- Legacy Survey: DESI Legacy Imaging Surveys
- TN: Transien Server

The RAPAS results

Solar System Objects:

NEO Confirmation page (Minor Planet Center)

- Detections of Near Earth Asteroids (individual obs. by Rapas members)
- 2025 QP3 astrometry published in MPEC-Q125, OHP August 2025 (C. Latgé et al.)

Next to come: Satellite of asteroids (GaiaSatAst)

- Photometry for detection of mutual occultations /eclipses
- Accompanying Pro observations (OHP + Lulin (Taiwan) +C2PU (Calern,OCA)

The RAPAS results

78 **astrophysical alerts** issued on 2024-2025 :

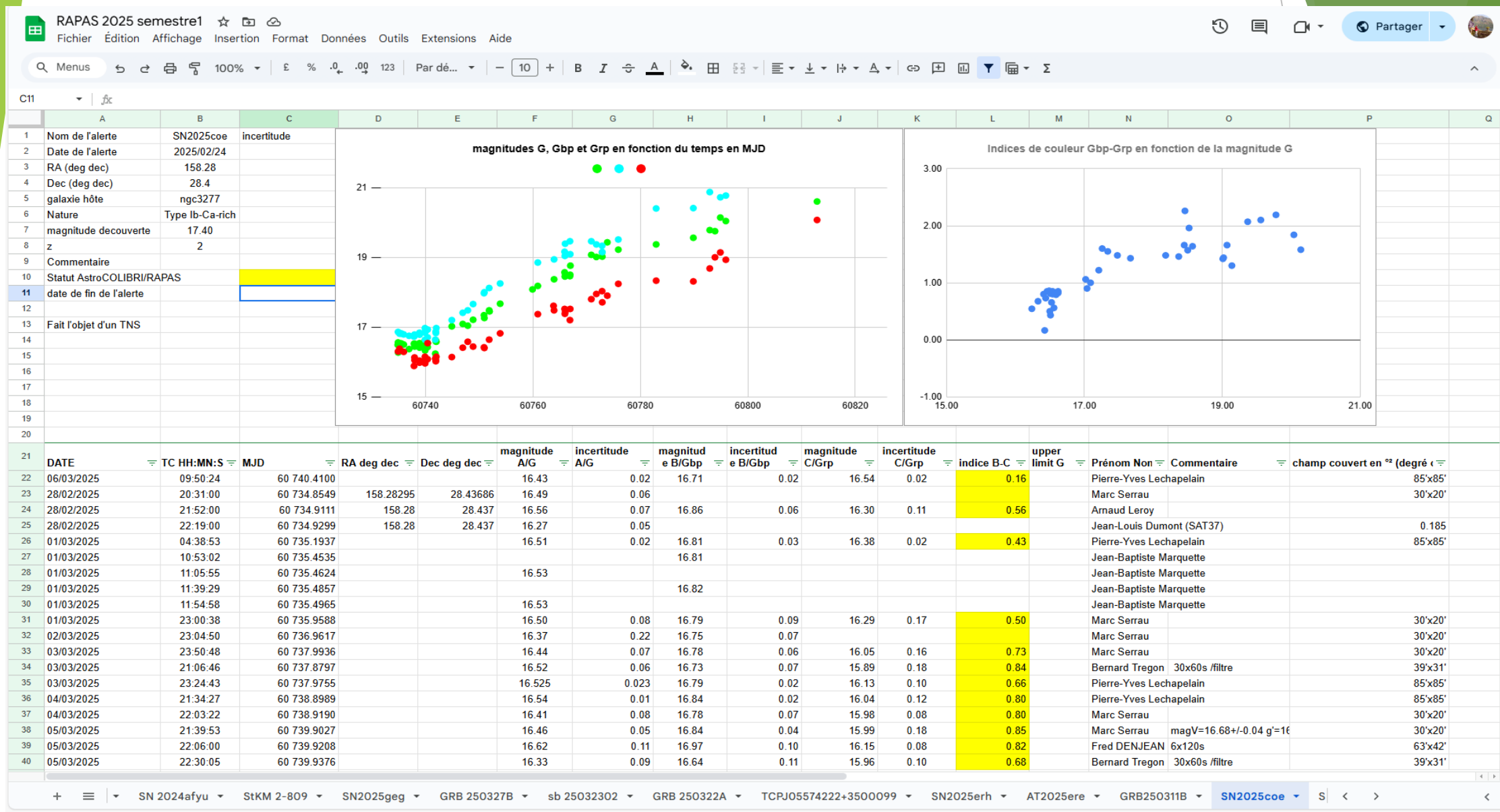
for each observation, the measurements are collected in a spreadsheet

SN2025vaw	ZTF25aarnzfi	SN2025geg	AT2024aasb	SN2024pmm
AT2025wbs	ZTF18acsugtc	GRB250327B	SN2024abfo	SN2024pie
V1413aql	AT2025kyz	Sb25032302	GRB241128A	SN2024kxi
AT2025usz	AT2025kwd	GRB250322A	AT2024abqt	SN2024kxi
V339Delp	GRB250521D	TCPJ05574222+3500099	SN2024aalt	SN2024iss
SN2025tzp	GRB250521B	SN2025erh	GRB241113B	SN2024inv
S2025sii	EP250511a	AT2025ere	SN2024ppd	SN2024igg
SN2025sei	GRB250510A	GRB250311B	SN2024yyu	SN2024bch
SN2025rbs	GRB250512B	SN2025coe	GRB240809A	
GRB250610B	GRB250506A	SN2025ccu	EP-WXTtrigger0170	
Sb25061207	GRB25051A	AT2025axj	AT2024qui	
RXJ1553.0+4457	SN2025ima	SN2025qe	SN2024pxl	
SN2025mvn	GRB250419A	AT2024afyi	SN2024pvw	
SN2025lyf	NuEm250417A	AT2024afyx	PNVJ19430751+2100204	
SN2025mbz	Sb25042207	SN2024aegm	TCPJ174-232	
SN2025mbd	GRB250416C	AT2024aezd	AT2024pns	
4FGLJ1311.0+3233	SN2024afyu	AT2024aehf	AT2024pnr	
4FGLJ1310.5+3221	StKM2-809	AT2024abol		

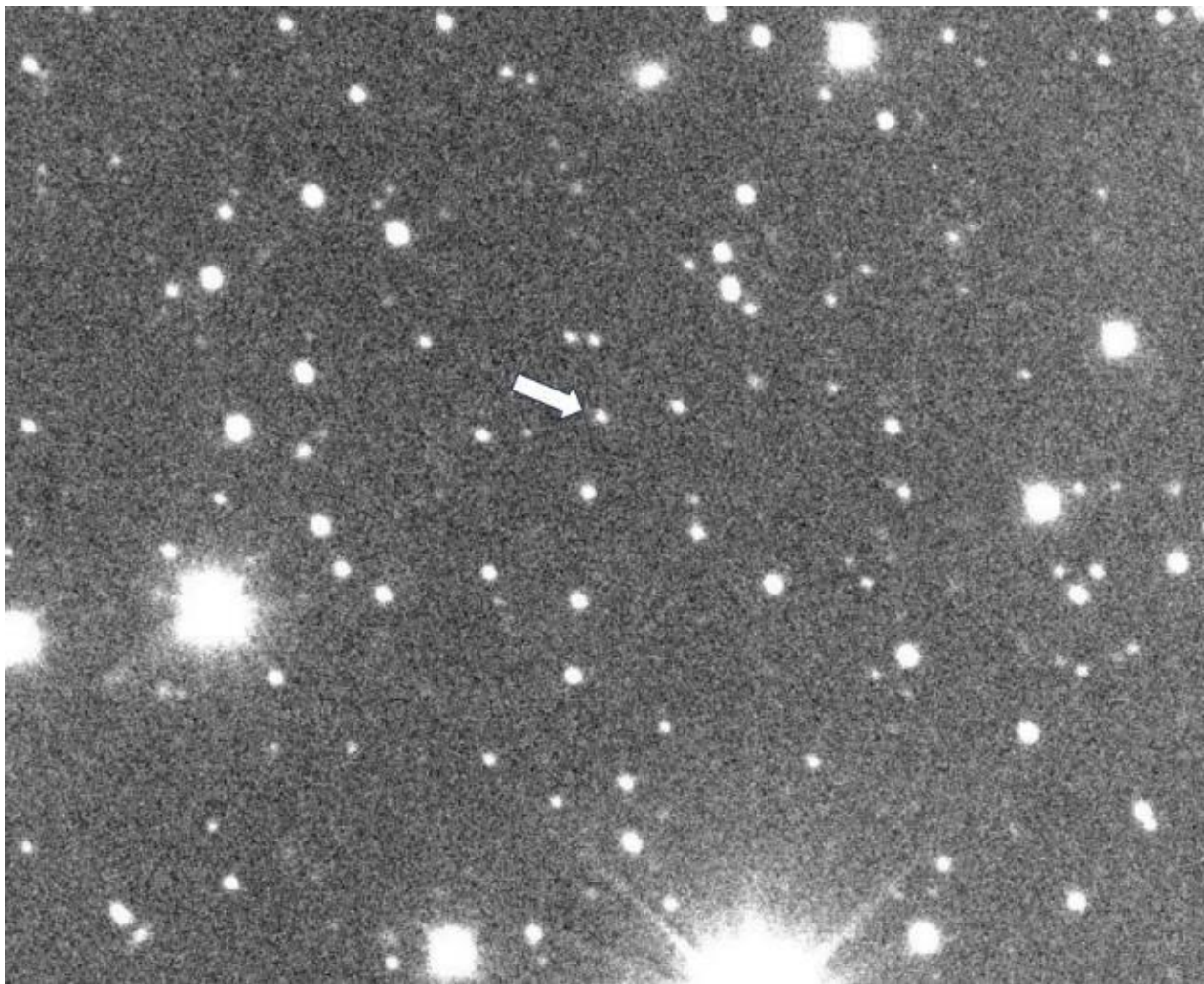
Spreadsheets: public access at <https://rapas.imcce.fr>

The RAPAS results

Spreadsheets to collect RAPAS observer measurements



**GRB240809A 3 RAPAS observers :
Belesta, M. Serrau, A. Leroy**



Each RAPAS observers deliver magnitude measurements on a RAPAS shared google spreadsheets

First RAPAS GCN circular : # 37159



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New! Super-Kamiokande JSON Notices and Schema v4.5.0. See [news and announcements](#)

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GCN Circular 37159

Subject GRB 240809A : RAPAS follow-up observations

Event [GRB 240809A](#)

Date 2024-08-12T21:51:25Z (a year ago)

Edited On 2024-08-12T22:25:05Z (a year ago)

From Thierry Midavaine at GRANDMA <thierrymidavaine@sfr.fr>

Edited By Leo P. Singer at NASA/GSFC <leo.p.singer@nasa.gov>

Via Web form

Thierry Midavaine on behalf of the RAPAS network reports (#1) :

P. Martinez and C. Latgé [1], M. Serrau [2] and A. Leroy [3] observed the Gamma-Ray Burst GRB240809A (Evans et al. GCN [37110](#) ; Want et al. GCN [37113](#)) using [1] ADAGIO N 820mm telescope at Belesa Observatory (IAU A05) equipped with a Moravian CMOS camera, [2] SC 300mm telescope at Vidauban [A77] equipped with a QHYCCD CMOS camera and [3] SC 350mm telescope at Madagascar equipped with a ZWO ASI CMOS camera. [1] and [2] are equipped with the set of 3 RAPAS filters meeting the Gaia G, Gbp and Grp photometric bands. The FITS files are reduced with the Gaia photometric catalog in respective spectral bands.

The afterglow is detected RA(J2000) = 5h 50m 10.55s ; Dec(J2000) = -02d 19' 03.3" [1]

MJD (mid)	Gaia filter band	mag.(Gaia)	RAPAS station
60531.66128	G	19.75 ± 0.14	[3]
60531.86667	Grp	20.48 ± 0.60	[1]
60531.86736	G	20.52 ± 0.47	[2]
60531.87778	Gbp	20.10 ± 0.32	[1]
60531.89444	G	20.58 ± 0.19	[1]

RAPAS (<https://proam-gemini.fr/rapas/>) is a new ProAm collaboration funded by Paris Observatory, delivering to a network of french amateur observatories a set of 3 filters meeting the Gaia spectral bands. This network is dedicated to deliver data in the Gaia photometric system on selected astrophysical alerts by Astro-COLIBRI (<https://astro-colibri.com/>) or from Gaia alerts.

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GCN Circular 38431

Subject GRB 241113B : RAPAS follow-up observation
Event [GRB 241113B](#)
Date 2024-12-03T16:29:28Z (10 months ago)
From Thierry Midavaine at GRANDMA <thierrymidavaine@sfr.fr>
Via Web form

Thierry Midavaine on behalf of the RAPAS network reports (#2) :
Patrick Martinez, Pascal André, David Bregou, David Fardin, Erik Guthleben [1] observed the Gamma-Ray Burst GRB241113B (N. Dagoneau et al. GCN [38196](#), D. Turpin et al. GCN [38330](#)) using [1] ADAGIO N 820mm telescope f=3.1m at Belestia Observatory (IAU A05) equiped with a Moravian C3 CMOS camera, 25mn exposure, equiped with RAPAS filter meeting the Gaia G photometric band. The FITS file is reduced with the Gaia photometric catalog in respective G band.
The afterglow is detected RA(J2000) = 07h20m55.30s ; Dec(J2000) = +46°48'13.1" Accy +/- 0.5" [1]

MJD(mid) Gaia band mag. accy RAPAS station

60642.92014 G 22.25 +/-0.5 [1]

RAPAS (<https://proam-gemini.fr/rapas/>) is a new ProAm collaboration funded by Paris Observatory, delivering to a network of french amateur observatories a set of 3 filters meeting the Gaia spectral bands. This network is dedicated to deliver data in the Gaia photometric system on selected astrophysical alerts by Astro-COLIBRI (<https://astro-colibri.com/>) or from Gaia alerts.

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Questions or comments? [Contact GCN directly.](#)



Have you found a bug in GCN?
[Open an issue.](#)



Want to contribute code to GCN?
[Get involved on GitHub.](#)





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GCN Circular 38438

Subject GRB 241128A : RAPAS follow-up observations
Event [GRB 241128A](#)
Date 2024-12-04T11:08:56Z (10 months ago)
From Thierry Midavaine at GRANDMA <thierrymidavaine@sfr.fr>
Via Web form

Thierry Midavaine on behalf of the RAPAS network reports (#3) :
Cédric Latgé, Patrick Martinez [1], Pierre-Michel Bergé, Erik Guthleben, Patrick Martinez [2], Thierry Midavaine [3] observed the Gamma-Ray Burst GRB241128A (R. Brivio et al. GCN [38367](#), K.L. Page GCN [38368](#)) using [1][2] ADAGIO N 820mm telescope f=3.1m at Belestia Observatory (IAU A05) equipped with a Moravian C3 CMOS camera, 1200s exposure [1], 1500s exposure [2], [3] RC 500mm f=1.414m at Salvia Observatory (I73) equipped with ZWO6200MMPRO CMOS camera, 2400s exposure, [1][2][3] are equipped with RAPAS filters meeting the Gaia G, Gbp, Grp photometric bands. The FITS files are reduced with the Gaia photometric catalog in respective G, Gbp, Grp bands.

The afterglow is detected RA(J2000) = 18h 14m 53.57s ; Dec(J2000) = +33° 26' 20.4" ; ± 0.5'' [1][2]
At this location it is not detected, above the upper limit magnitude [3]

MJD (mid)	Gaia band	mag.(Gaia)	RAPAS station
60643.72986	G	20.50 ± 0.5	[1]
60644.77083	G	21.00 ± 0.5	[2]
60647.74270	G+Gbp+Grp	>21.	[3]

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GCN Circular 42370

Subject GRB 251017A : RAPAS follow-up observations
Event [GRB 251017A](#)
Date 2025-10-19T21:33:07Z (2 days ago)
From Thierry Midavaine at SAF - RAPAS <thierrymidavaine@sfr.fr>
Via Web form

Thierry Midavaine on behalf of the RAPAS network reports (#5) :
Pascal André, David Fardin, Patrick Martinez [1], Christian Pantacchini [2], Jean-Marie Lopez, Cyril Cavadore [3], Lisa Maris [4] observed the field of Gamma-Ray Burst GRB 251017A (R. Gupta et al. GCN [42322](#), I. Perez-Garcia GCN [42323](#)) using :

[1] ADAGIO N 820mm telescope f=3.1m at Belesa Observatory (IAU A05) equipped with a Moravian C3 CMOS camera,
[2] N308 mm telescope f=1.1m equipped with a Moravian g3 KAI11000 CCD camera,
[3] Société Astronomique de Montpellier N 500mm telescope f=2.2m at Observatoire des Pises (IAU 122) equipped with an ASI6200MMPro CMOS camera,
[4] SC 280mm f=1.8m equipped with an ATIK4000 CCD camera.
[1][2][3][4] are equipped with RAPAS filters meeting the Gaia G, Gbp, Grp photometric bands. The FITS files are reduced with the Gaia photometric catalog in respective G, Gbp and Grp bands.

The afterglow is detected at

RA(J2000) = 22h 21m 36.22s ; Dec(J2000) = +07° 02' 23.6" ; ± 0.5'' in G and Grp bands [1]

RA(J2000) = 22h 21m 36.956s; Dec(J2000) = +07° 02' 21.90" in G band [3]

At this RA Dec location the GRB is above the respective upper limit magnitude Gbp for [1], G for [2] and [4], Gbp and Grp for [3]

MJD (mid)	Gaia band	exp(s)	mag.(Gaia)	upperlim	RAPAS station
60965.81618	G	1200	22.5 ± 0.3		[3]
60965.82986	G	4500		20.24	[4]
60965.83819	G	3600	22.0 ± 0.3		[1]
60965.83819	Gbp	600		21	[1]
60965.83819	Grp	600	>20.00		[1]
60965.89722	G				[2]

Acknowledgements :

RAPAS (<https://gemini.obspm.fr/20220101-rapas/>) is a ProAm collaboration created by T. Midavaine (SAF), W. Thuillot (LTE, Obs. de Paris-PSL) and M. Dennefeld (IAP/CNRS and Sorbonne Univ.) and funded by the Paris Observatory under API ProAm of the Scientific Council. It aims at homogenizing observing procedures and filters, and is delivering to a network of french amateur observatories a set of 3 filters which have been chosen to meet the Gaia G, Gbp and Grp spectral bands. This network produces data on astrophysical alerts delivered by various Alert systems (Gaia Alerts, Atlas, ZTF, etc...) and collected by Astro-COLIBRI (<https://astro-colibri.science/>). This network is similarly progressing towards an homogeneous spectroscopic equipment to deliver SED.

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AstroNote 2025-200

[AstroNotes](#) [Stats](#)

2025-07-02 11:31:41 Type: Announcement-Data Release Bibcode: 2025TNSAN.200....1M

Photometric follow-up of SN2025coe with RAPAS ProAm network

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Abstract: We report on the optical photometric follow-up of SN2025coe with RAPAS, a ProAm network using telescopes equipped with a set of filters meeting Gaia photometric bands.

Triggered by an Astro-COLIBRI alert (ATel#17138, discovery 2025-02-24 15:13:06) RAPAS ProAm network monitors SN2025coe from 2025-02-28 to 2025-05-29. It is classified as a Ca-rich Type Ib supernova. During this period, 11 telescopes located in France, using the set of RAPAS A, B and C filters meeting the three Gaia G, Gbp and Grp photometric band specifications, collected 59 measurements in 1, 2 or the 3 Gaia bands. The photometric consistency was ensured by reducing each frame with the corresponding Gaia DR3 reference catalog for G, Gbp and Grp bands.

The multi-band light curve shows a peak in Gbp band on the 2025-03-03, then in Grp band on the 2025-03-05 (uncertainty ± 0.3 d) followed by a monotonic decline with low amplitude undulations. The Gbp-Grp color index reddened steadily from 0.5 mag to 2 mag as the supernova faded beyond $G = 20$ mag.

Detailed light curves and data are presented on the RAPAS web page and Astro-COLIBRI web page on the following links :

<https://rapas.imcce.fr/SN2025coe-lightcurve.jpg>

<https://rapas.imcce.fr/SN2025coe-bp-rp-index.jpg>

<https://rapas.imcce.fr/SN2025coe-bp-rp-index.jpg>

https://rapas.imcce.fr/SN2025coe_RAPAS.csv

<https://storage.googleapis.com/astro-colibri-optical-lightcurve/Astro-C...>

<https://storage.googleapis.com/astro-colibri-optical-lightcurve/archive...>

Further details and the full dataset are accessible to registered users of the RAPAS Spreadsheets platform.

Related Objects:

Show current TNS values

Catalog	Name	Reported RA	Reported DEC	Reported Obj-Type	Reported Redshift	Host Name	Host Redshift	Remarks
TNS	2025coe	10:33:07.921	+28:26:12.54	SN Ib-Ca-rich	0.00472			

Comments

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Acknowledgements :

RAPAS (<https://gemini.obspm.fr/20220101-rapas/>) is a ProAm collaboration created by T. Midavaine (SAF), W. Thuillot (LTE, Obs. de Paris-PSL) and M. Dennefeld (IAP/CNRS and Sorbonne Univ.) and funded by the Paris Observatory under API ProAm of the Scientific Council. It aims at homogenizing observing procedures and filters, and is delivering to a network of french amateur observatories a set of 3 filters which have been chosen to meet the Gaia G, Gbp and Grp spectral bands. This network produces data on astrophysical alerts delivered by various Alert systems (Gaia Alerts, Atlas, ZTF, etc...) and collected by Astro-COLIBRI (<https://astro-colibri.science>). This network is similarly progressing towards an homogeneous spectroscopic equipment to deliver SED.

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Conclusions

Next future:

- Strengthening collaboration with Pro
- 10 observers abroad > extension
- New generation of Filters (improvement of RAPAS B (Gbp))
- New set of filters to distribute
- Data archiving @obspm (the Paris Observatory - PADC)

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