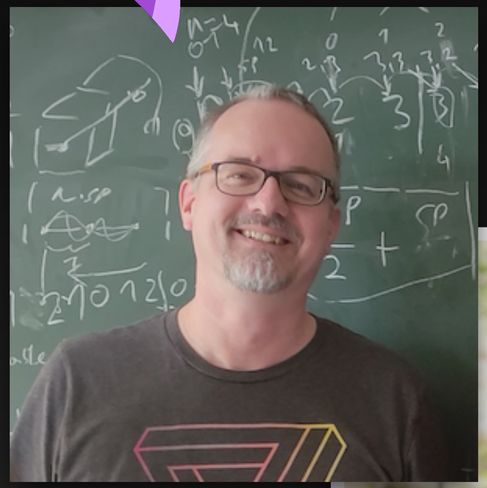
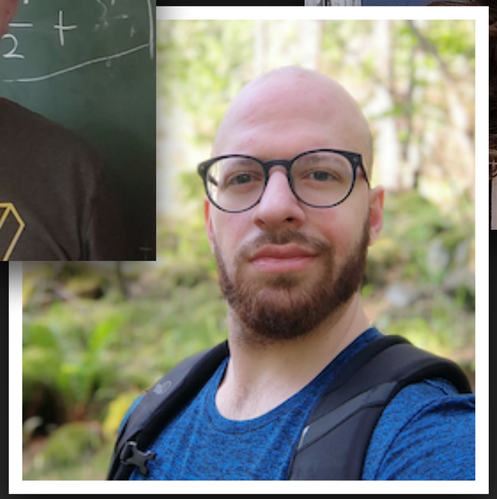
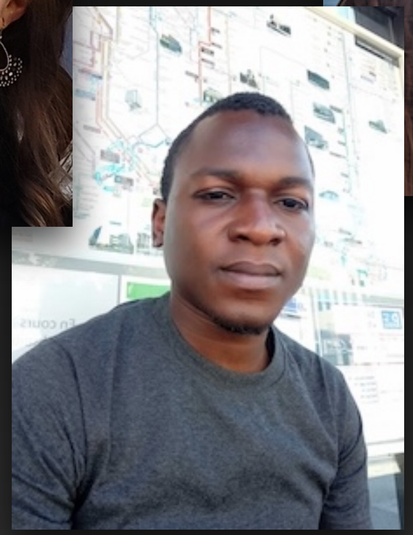
Astro-COLIBRI





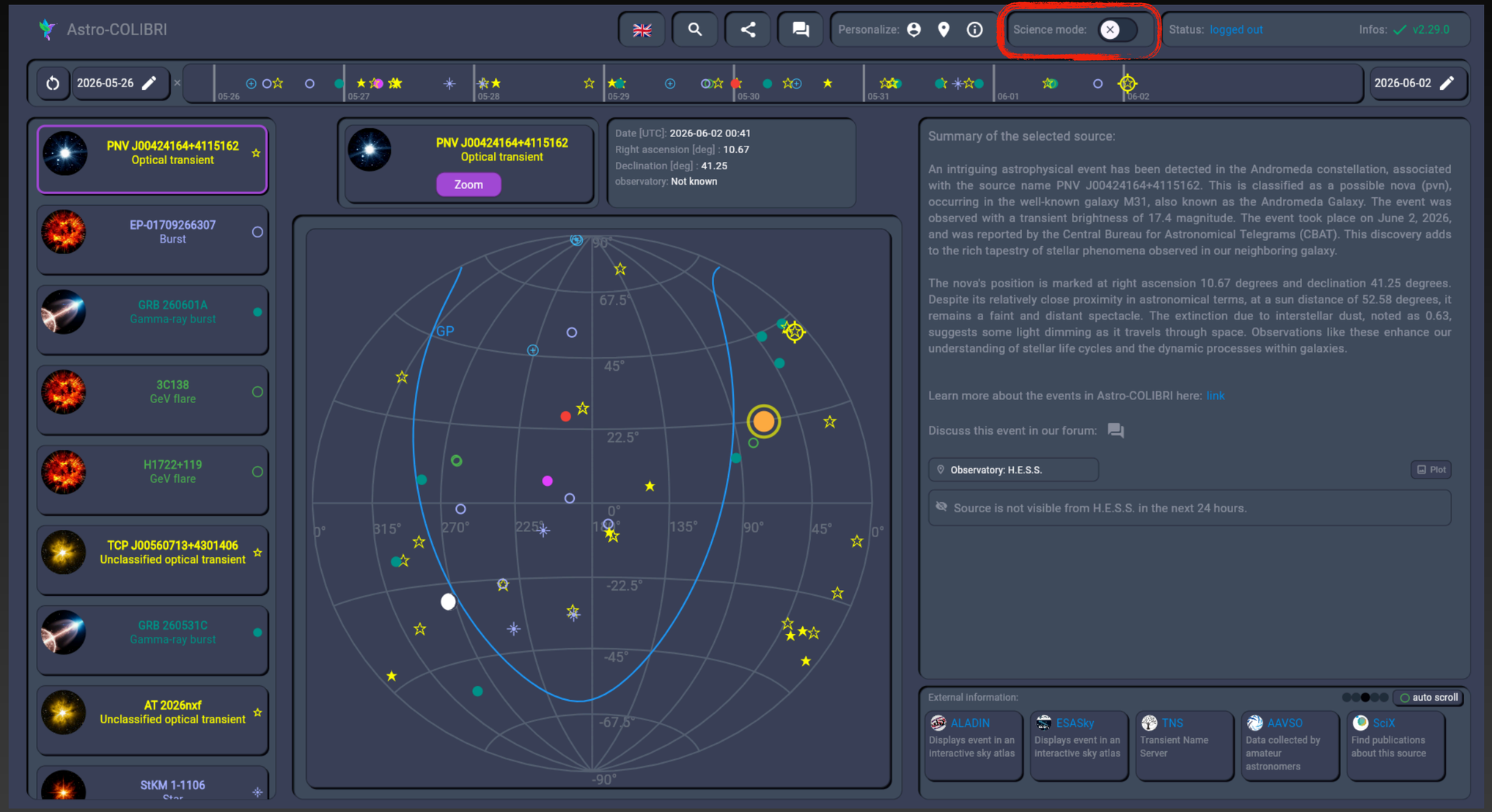

+ many contributions from the community

Ilja Jaroschewski (IRFU, CEA Paris-Saclay)

Funded by the Horizon 2020 Framework Programme of the European Union Grant Agreement No. 871158

Main Features

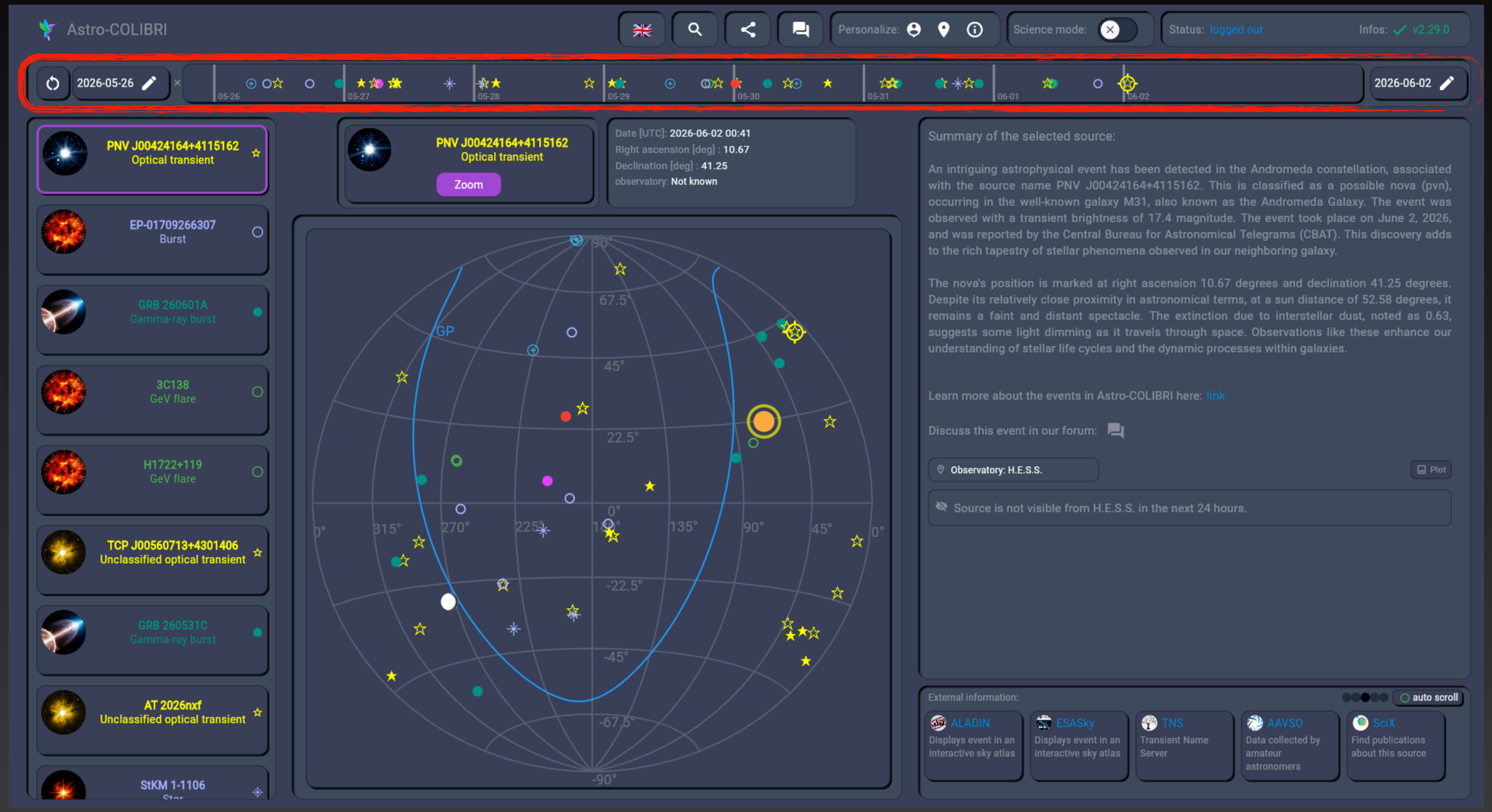
Non-Science Mode



Timeline

Science mode:

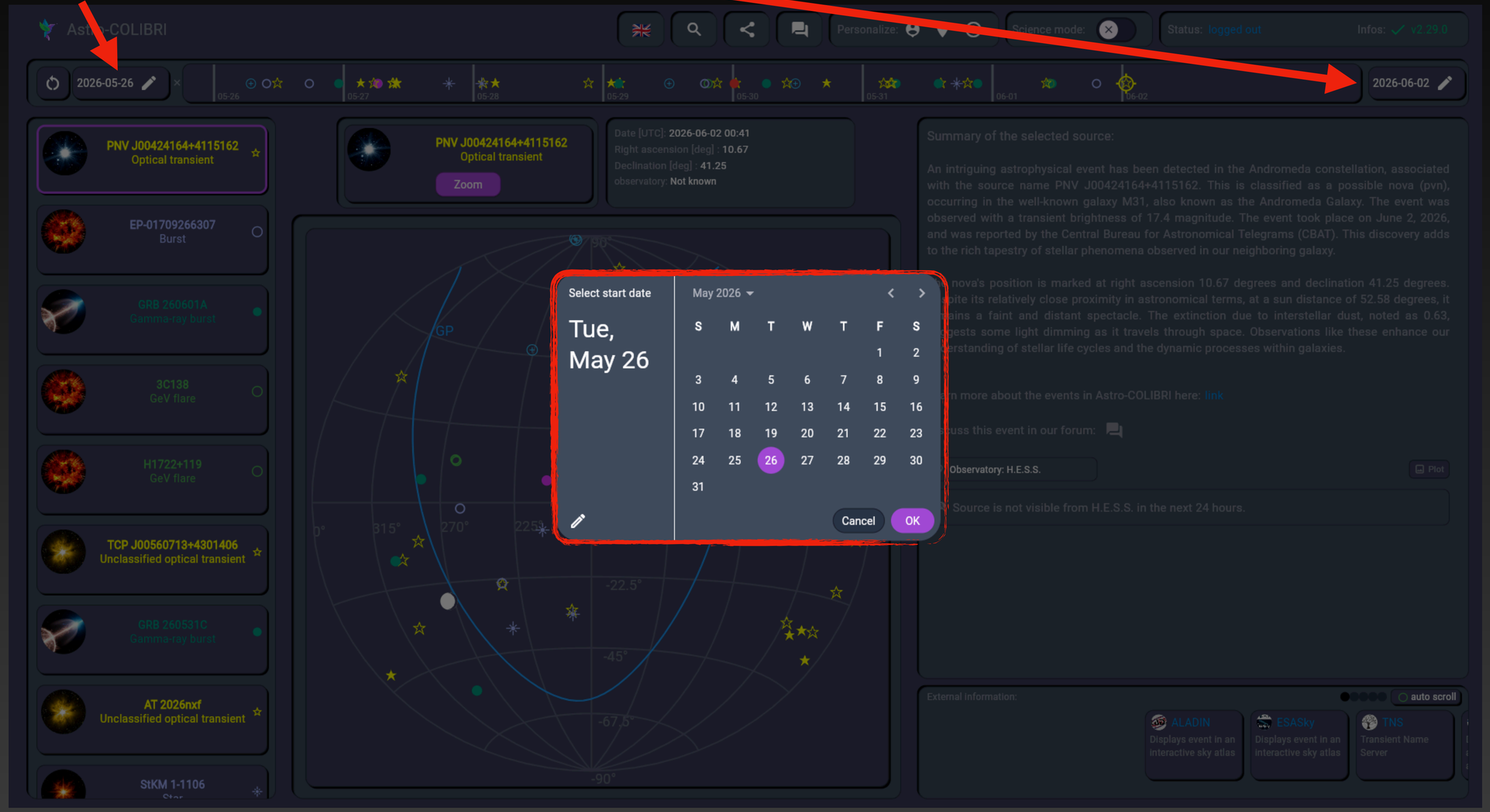
All events from the last 7 days are shown



Timeline

Science mode:

Change start and end in timeline

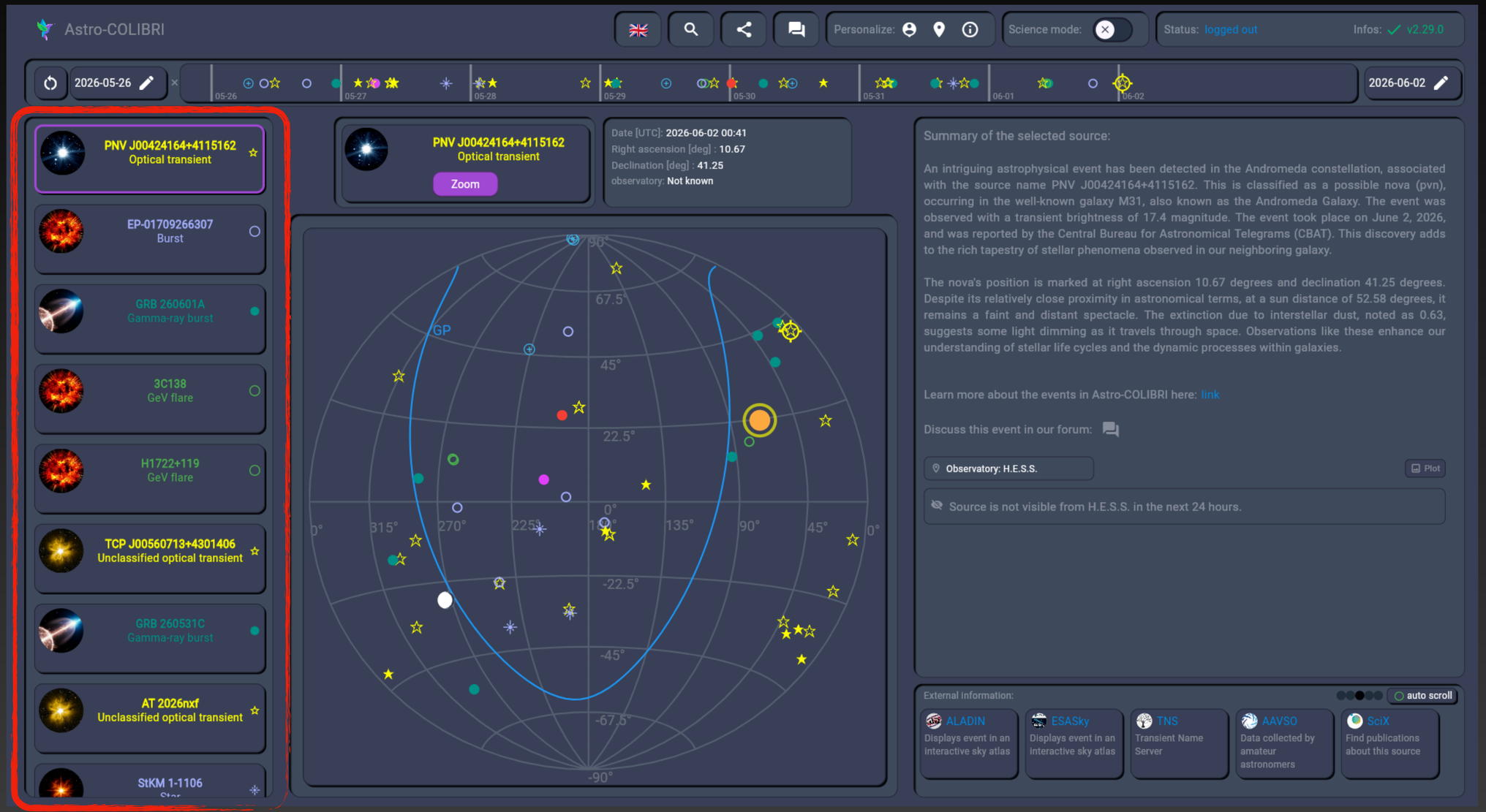


Event Card Tiles

Science mode:

Color coded for instrument

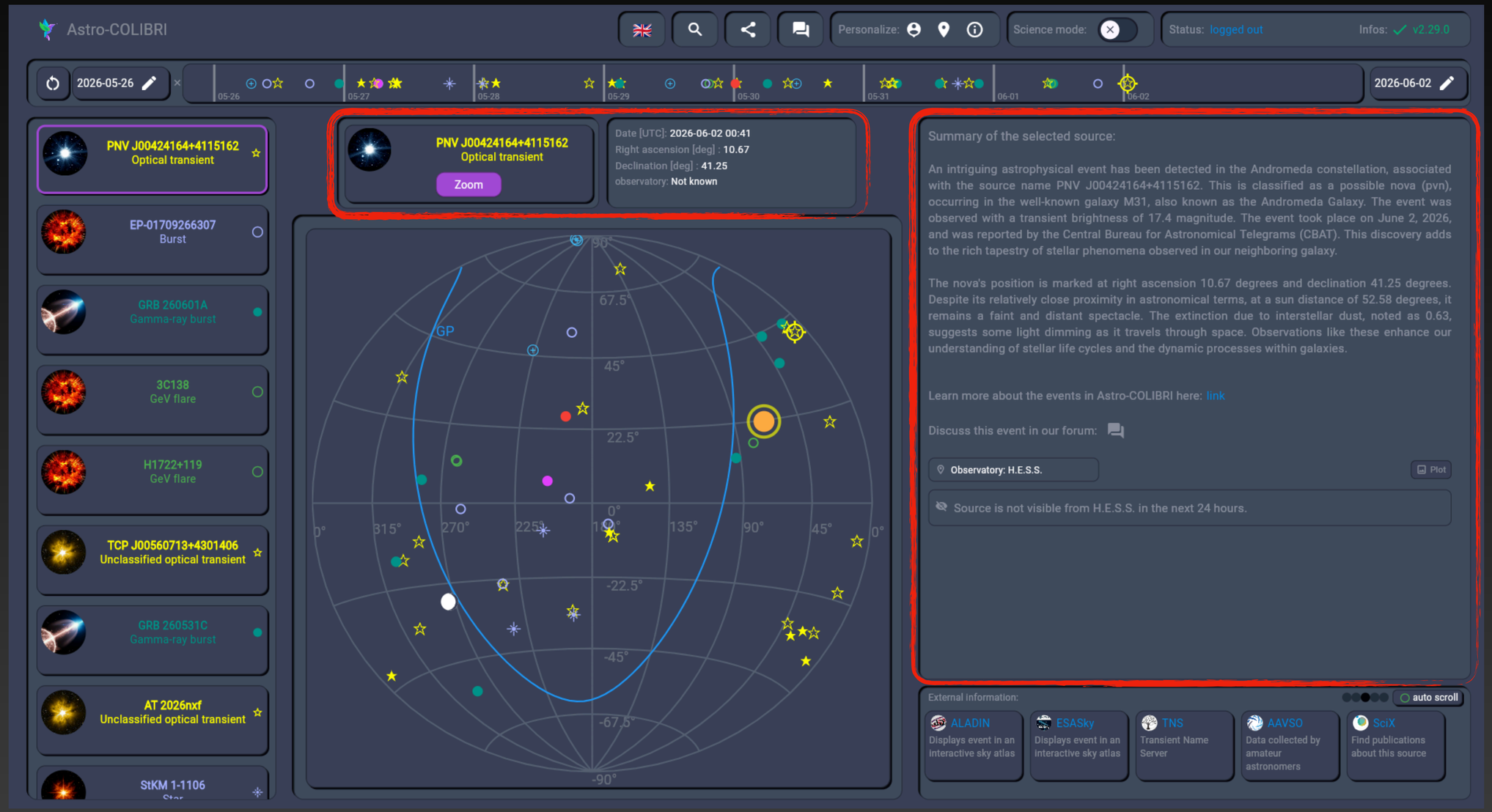
Shape coded for event type



Event Info

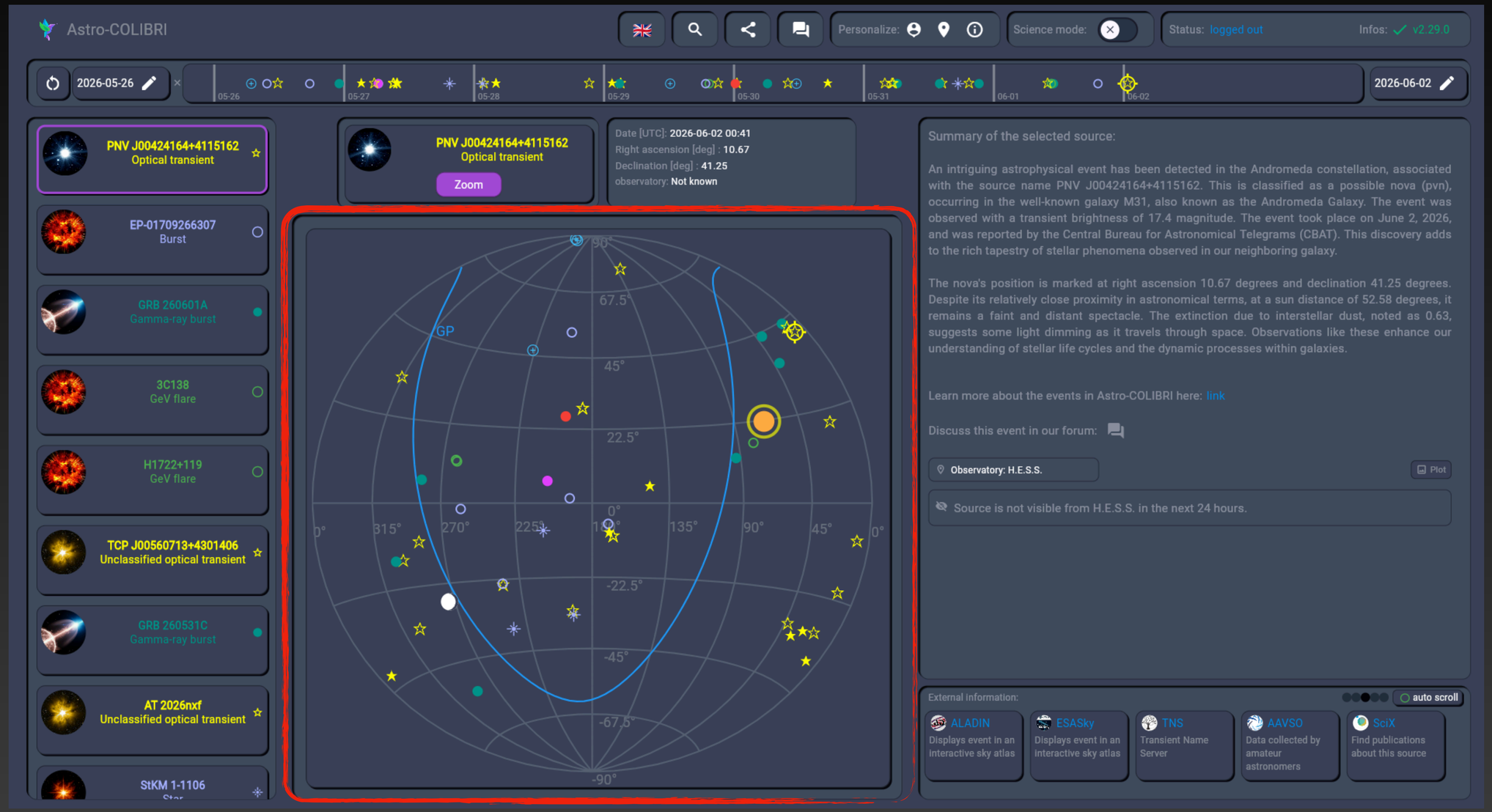
Science mode:

Event Coordinates + Observatory + Information about the event type



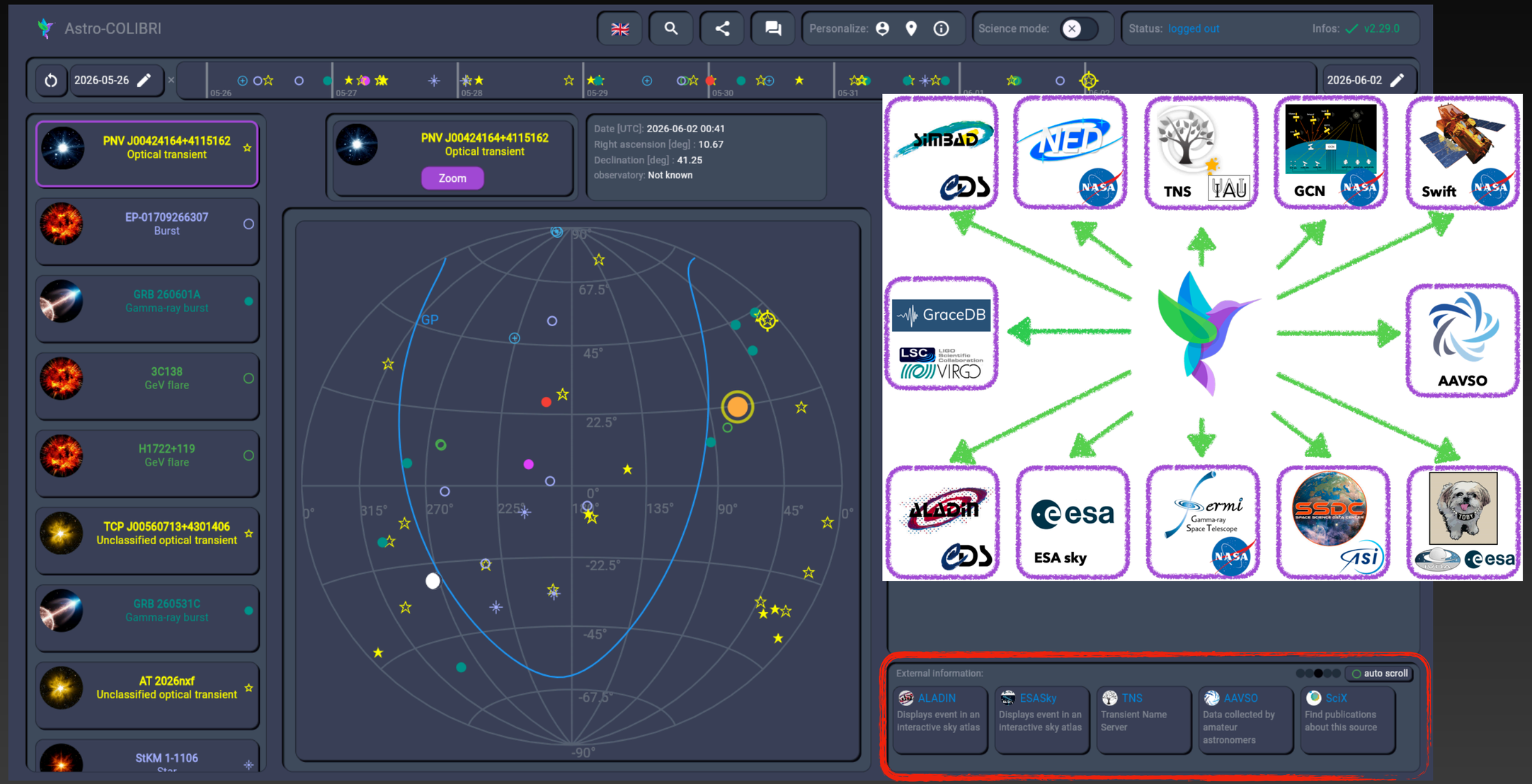
Sky-Map

Interactive: click on any event, zoom in and out

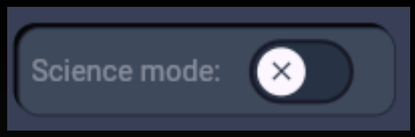


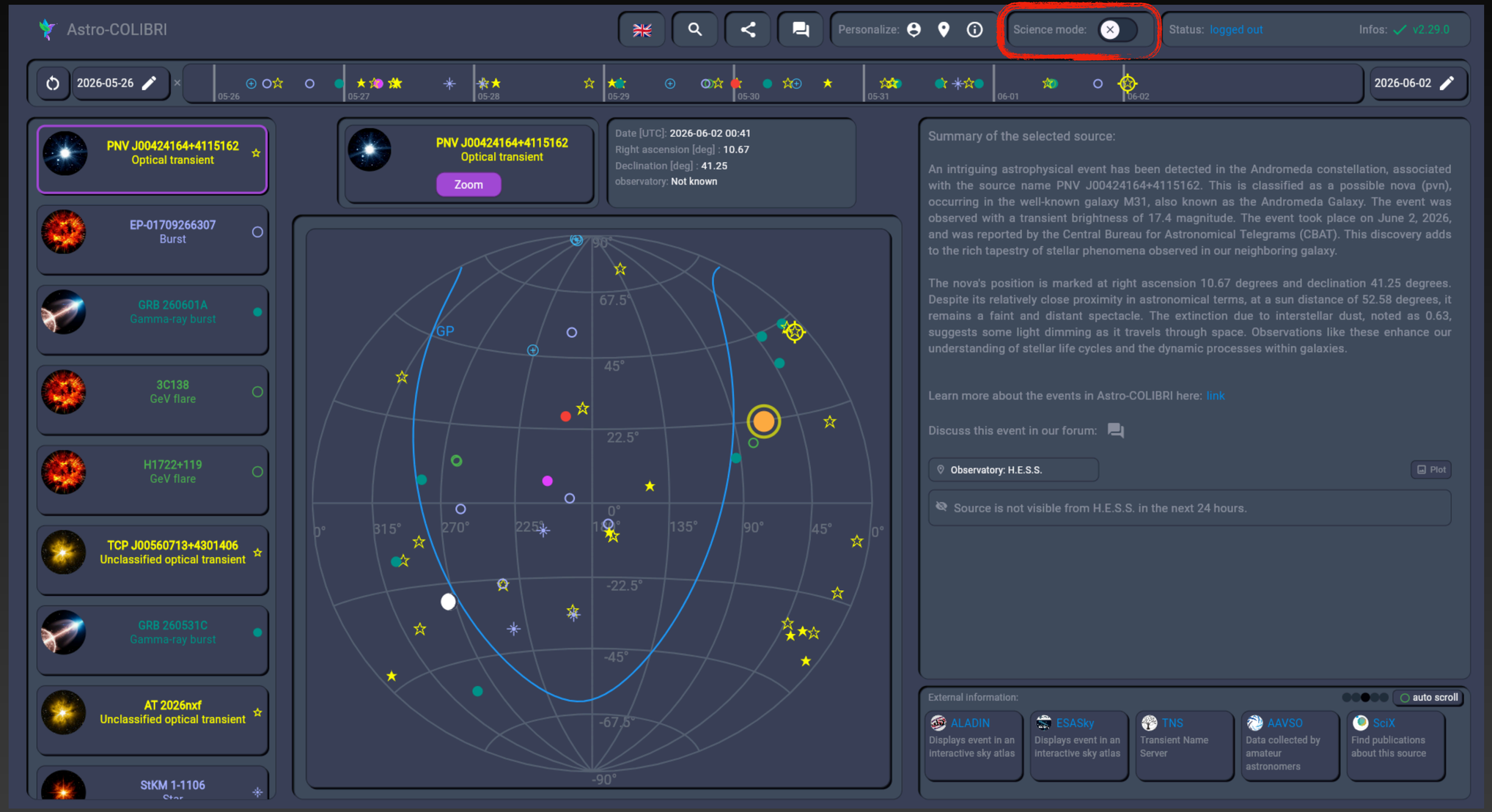
External Links

Forwarding to external webpages for additional informations

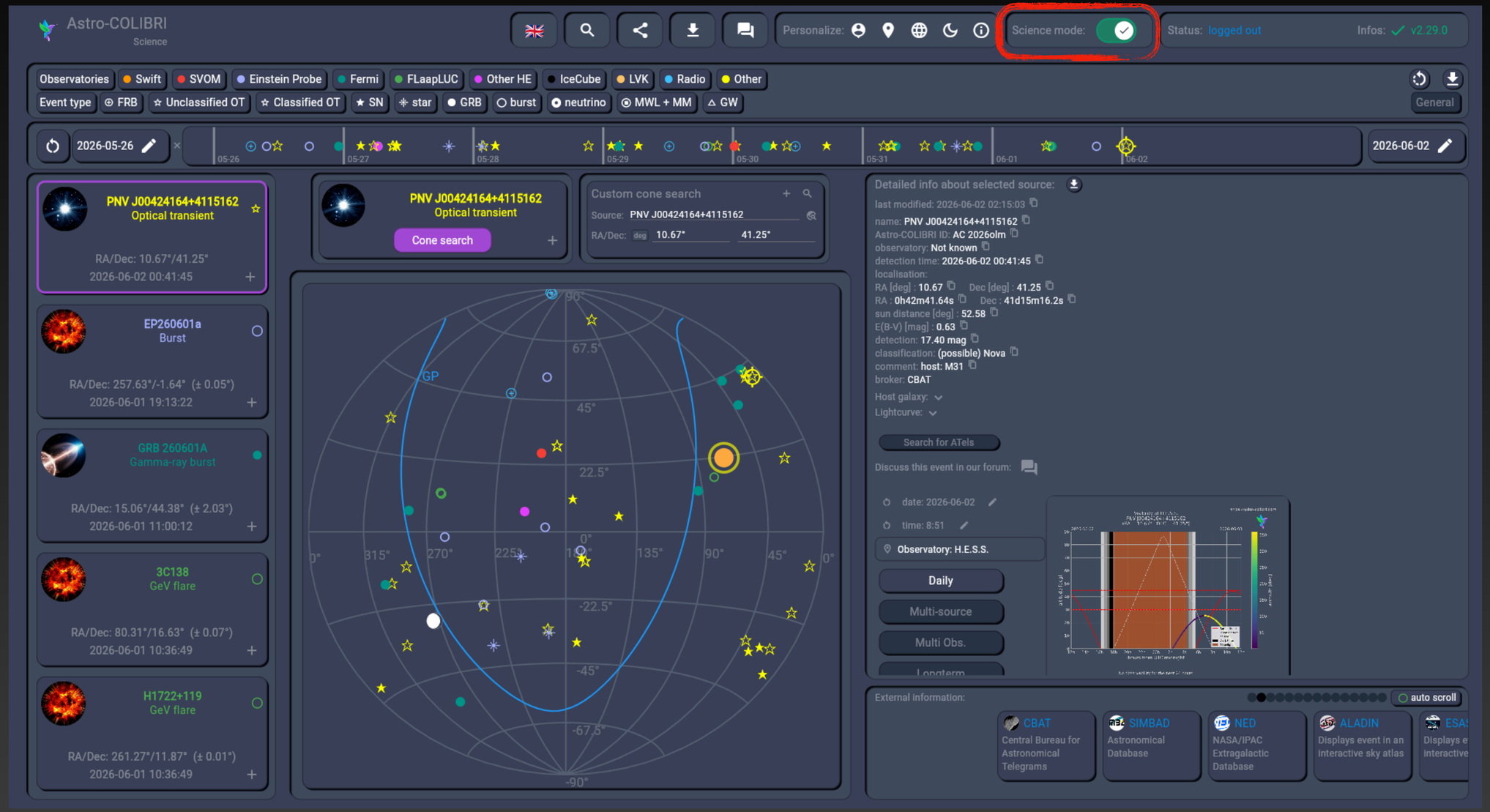


Non-Science Mode





Science Mode



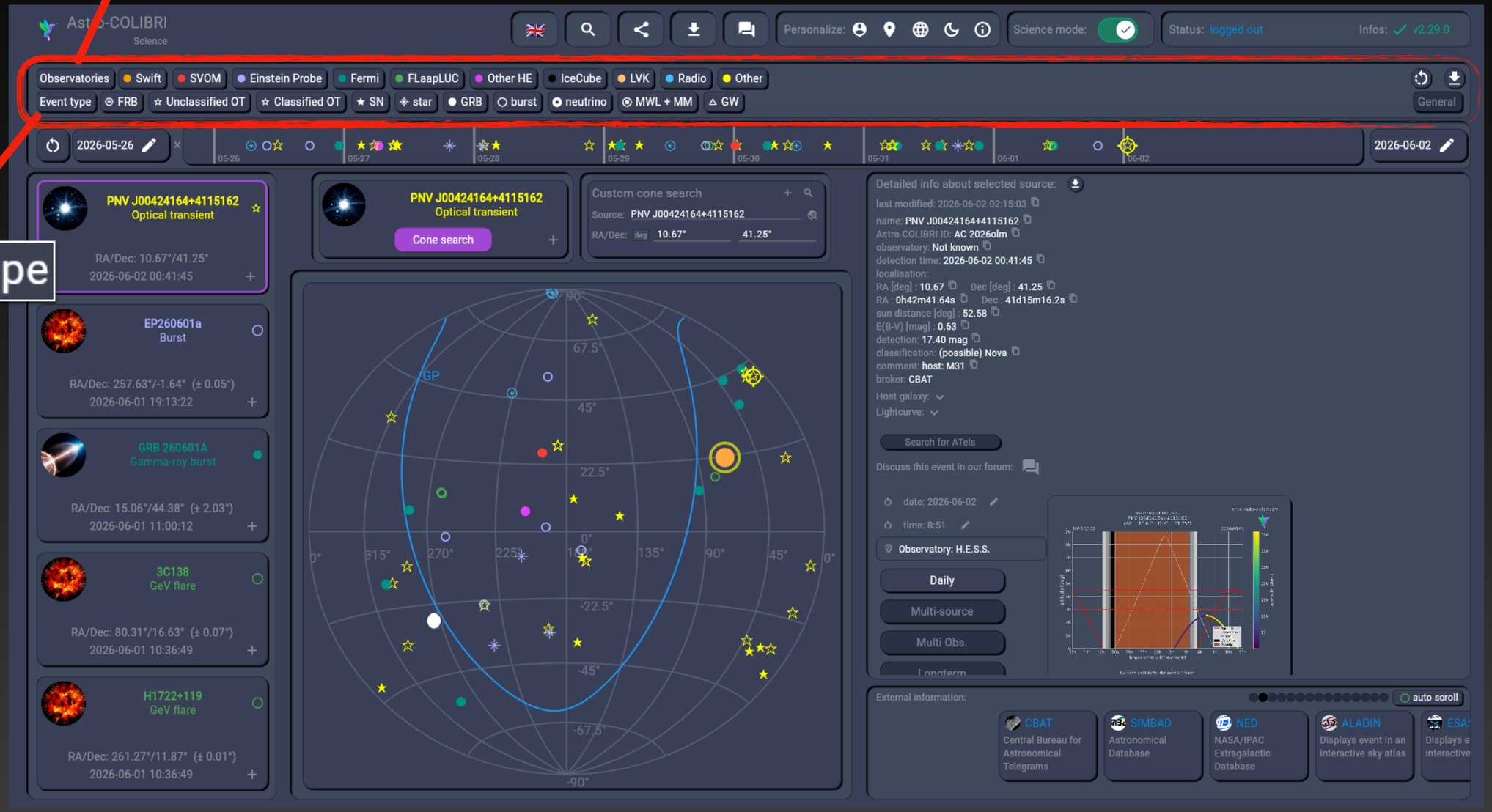
Filters

Science mode:

Observatories

Choose observatories and event types relevant for you!

Event type

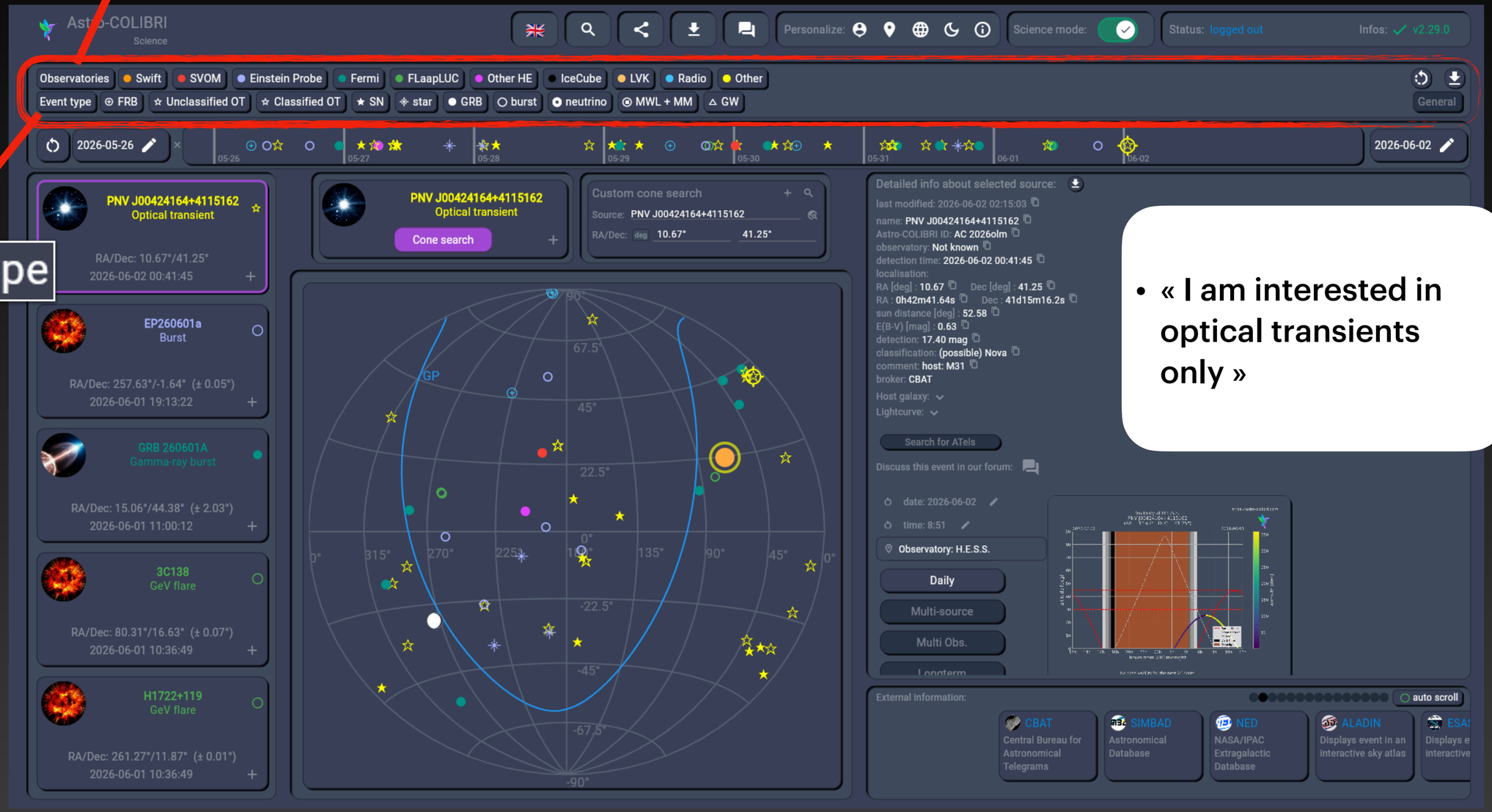


Filters

Observatories

Choose observatories and event types relevant for you!

Event type

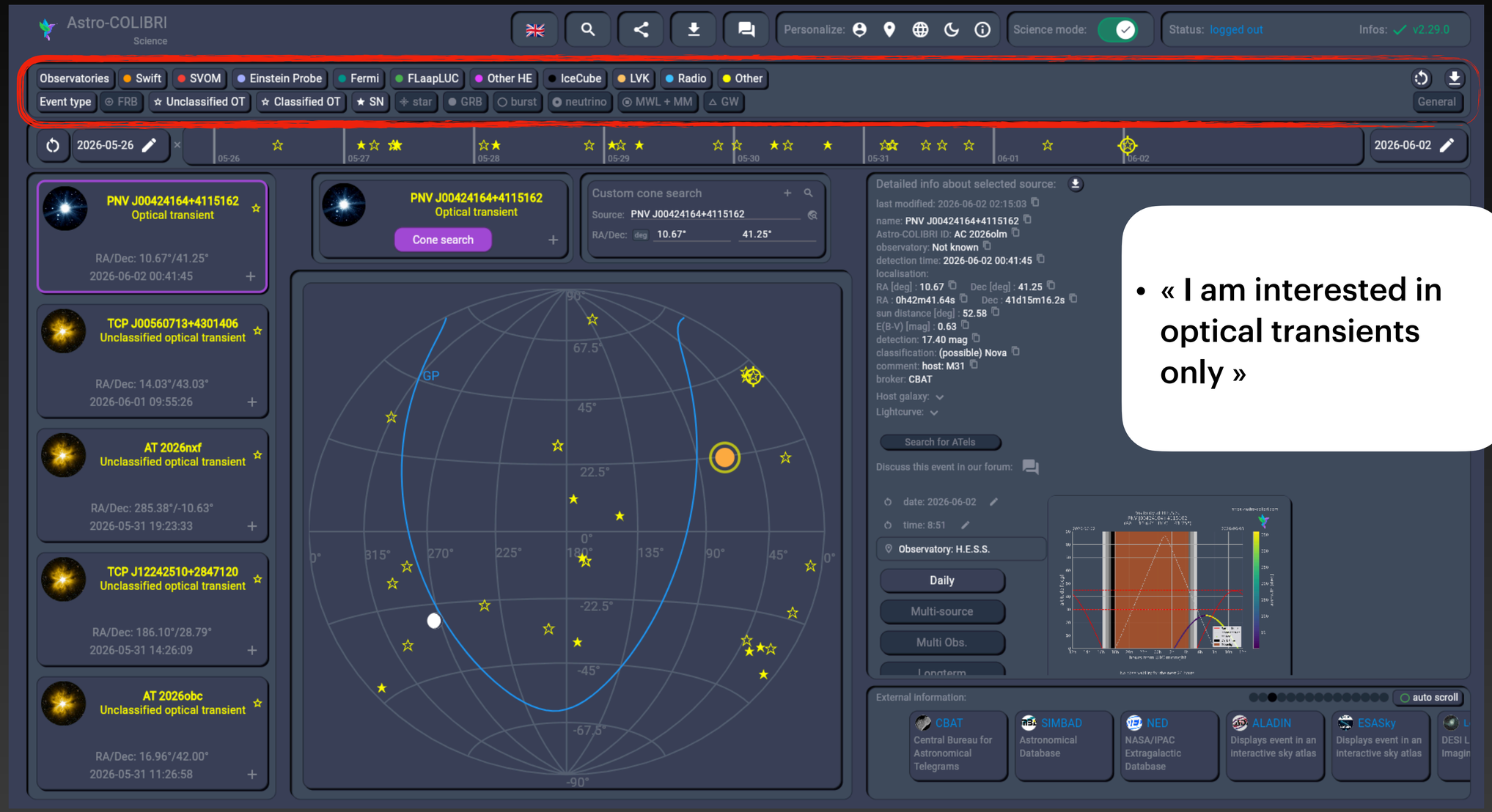


- « I am interested in optical transients only »

Filters

Science mode:

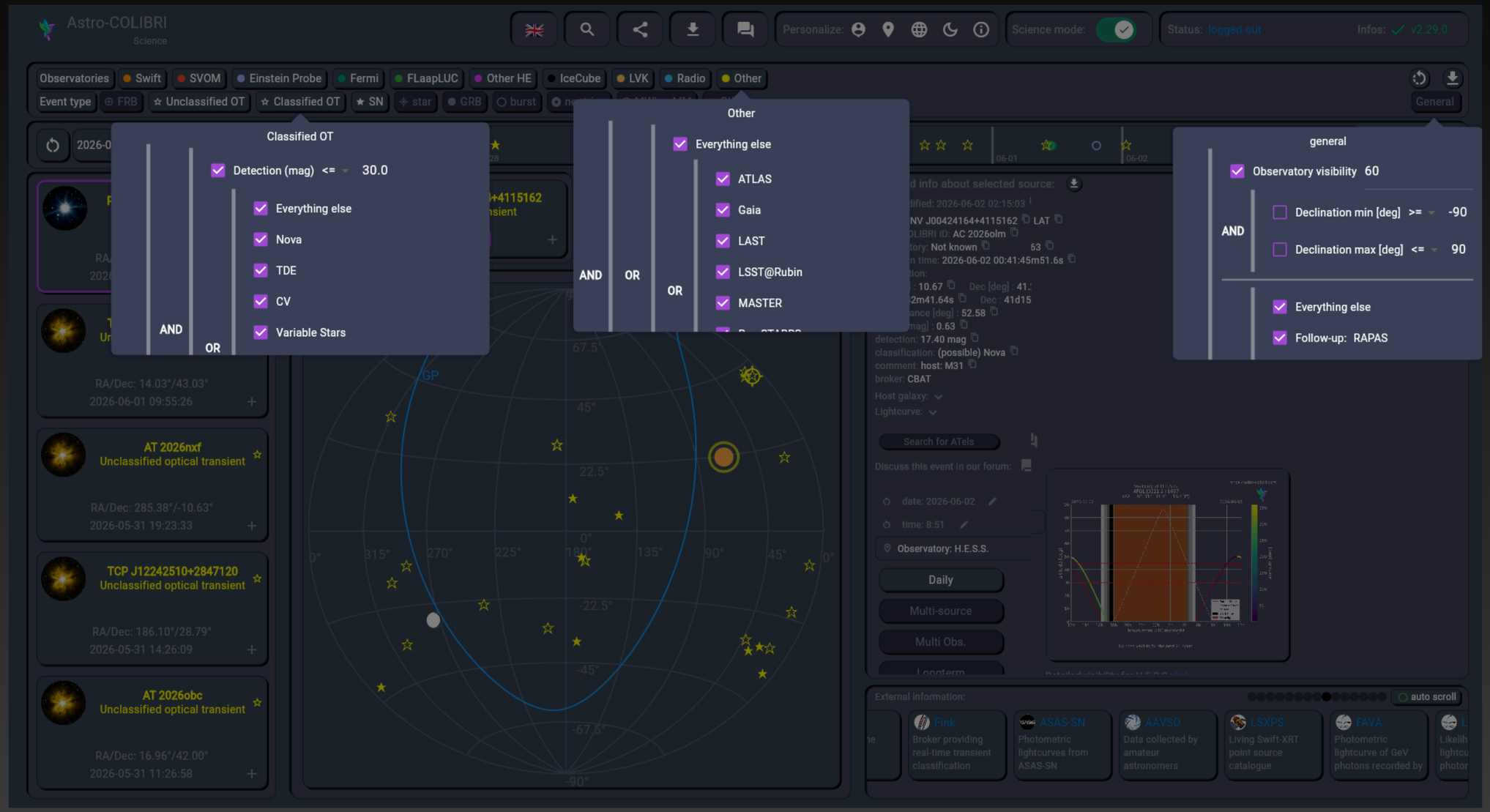
Choose observatories and event types relevant for you!



- « I am interested in optical transients only »

Filters

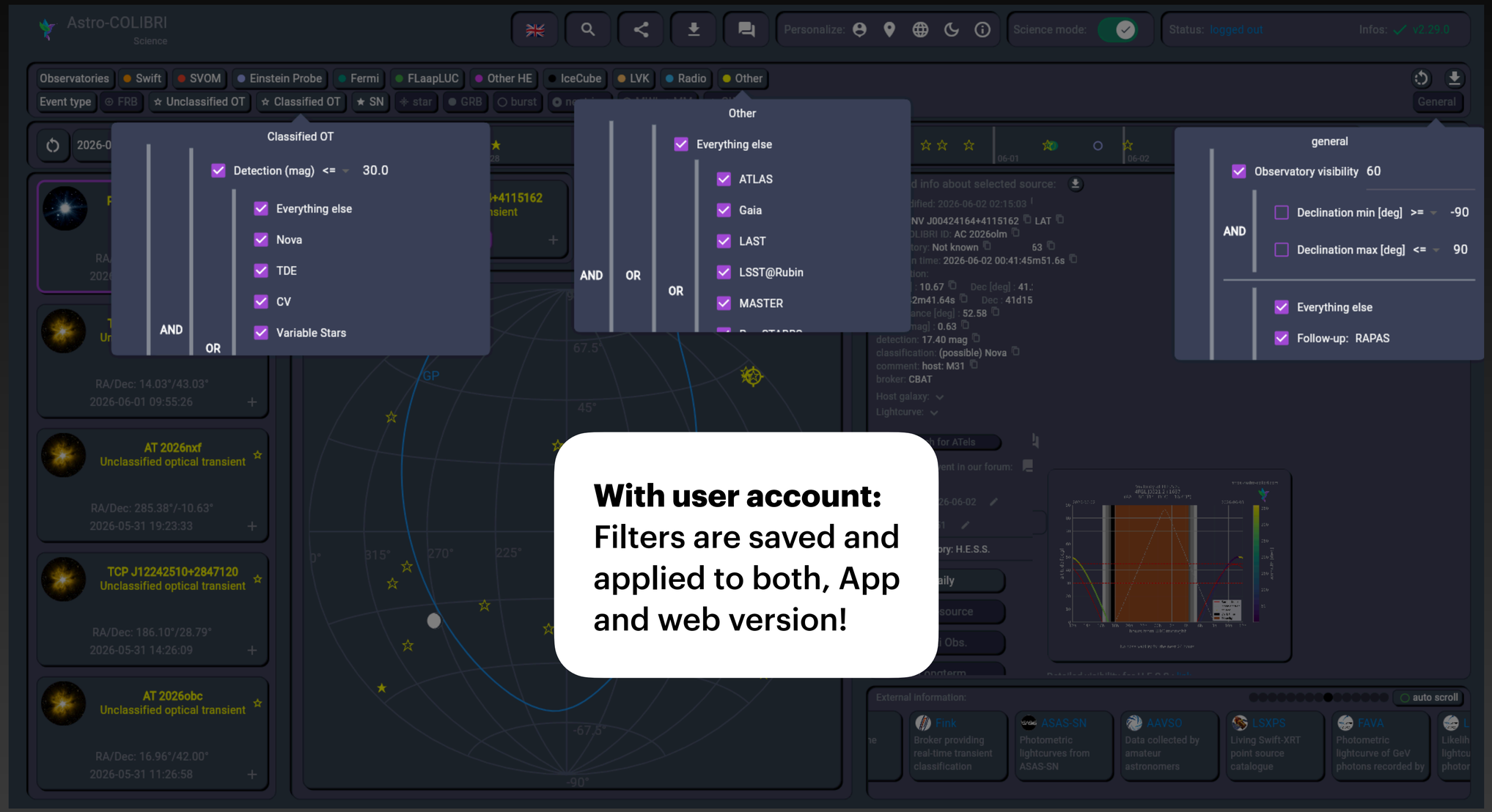
Long press: more filter options like type, observatories or magnitude filters



Filters

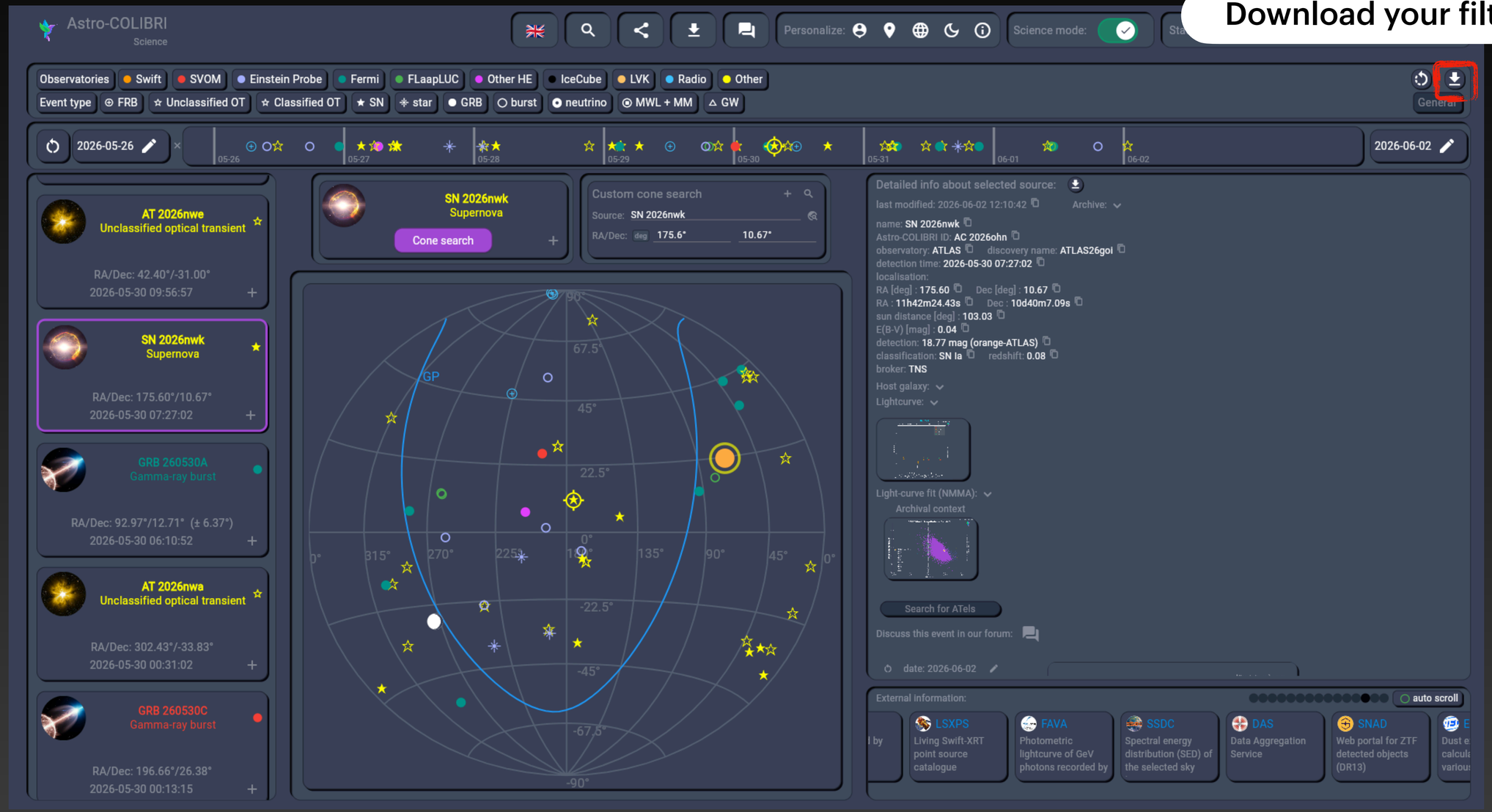
Science mode:

Long press: more filter options like type, observatories or magnitude filters



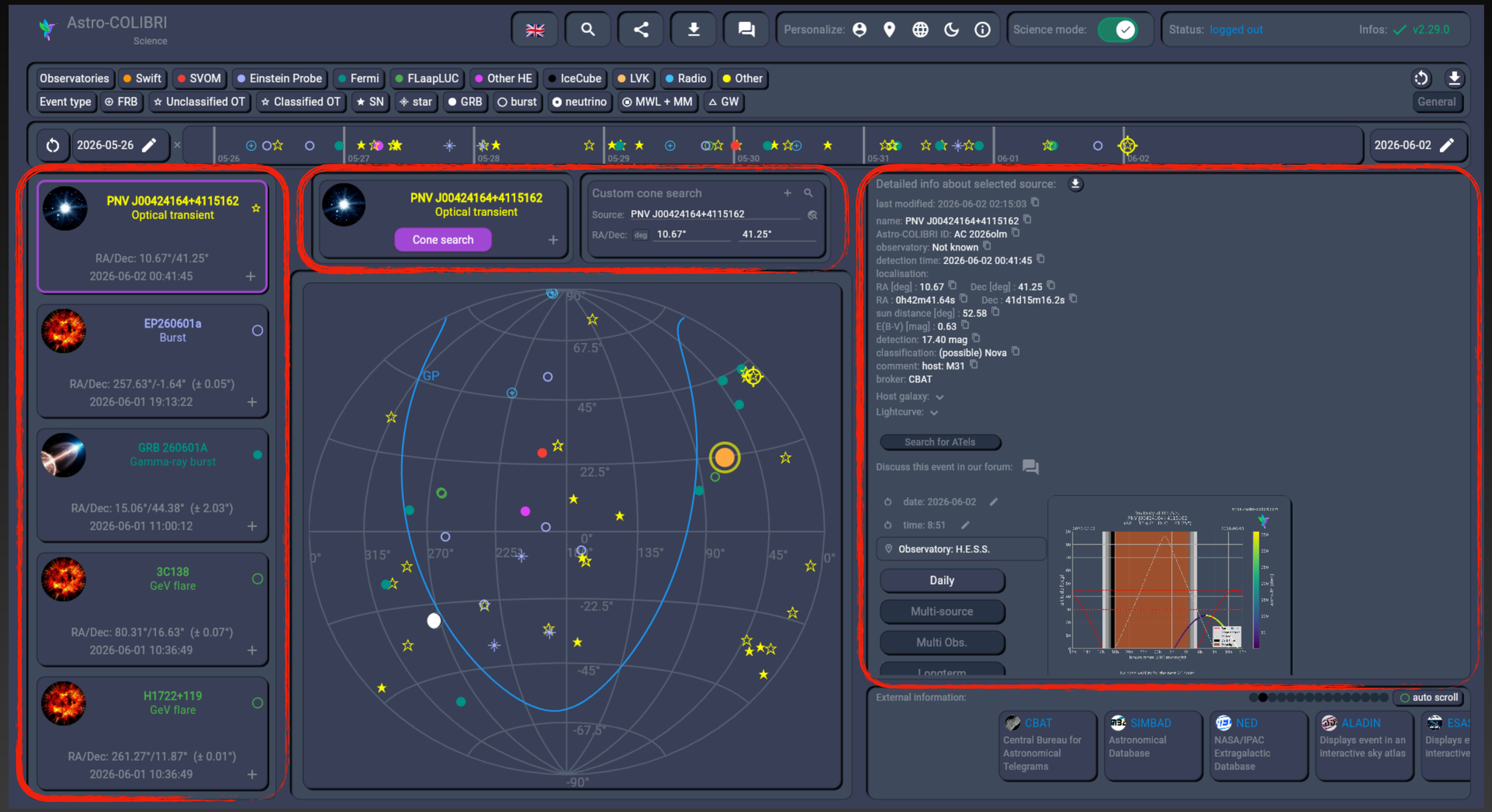
With user account:
Filters are saved and applied to both, App and web version!

Filters

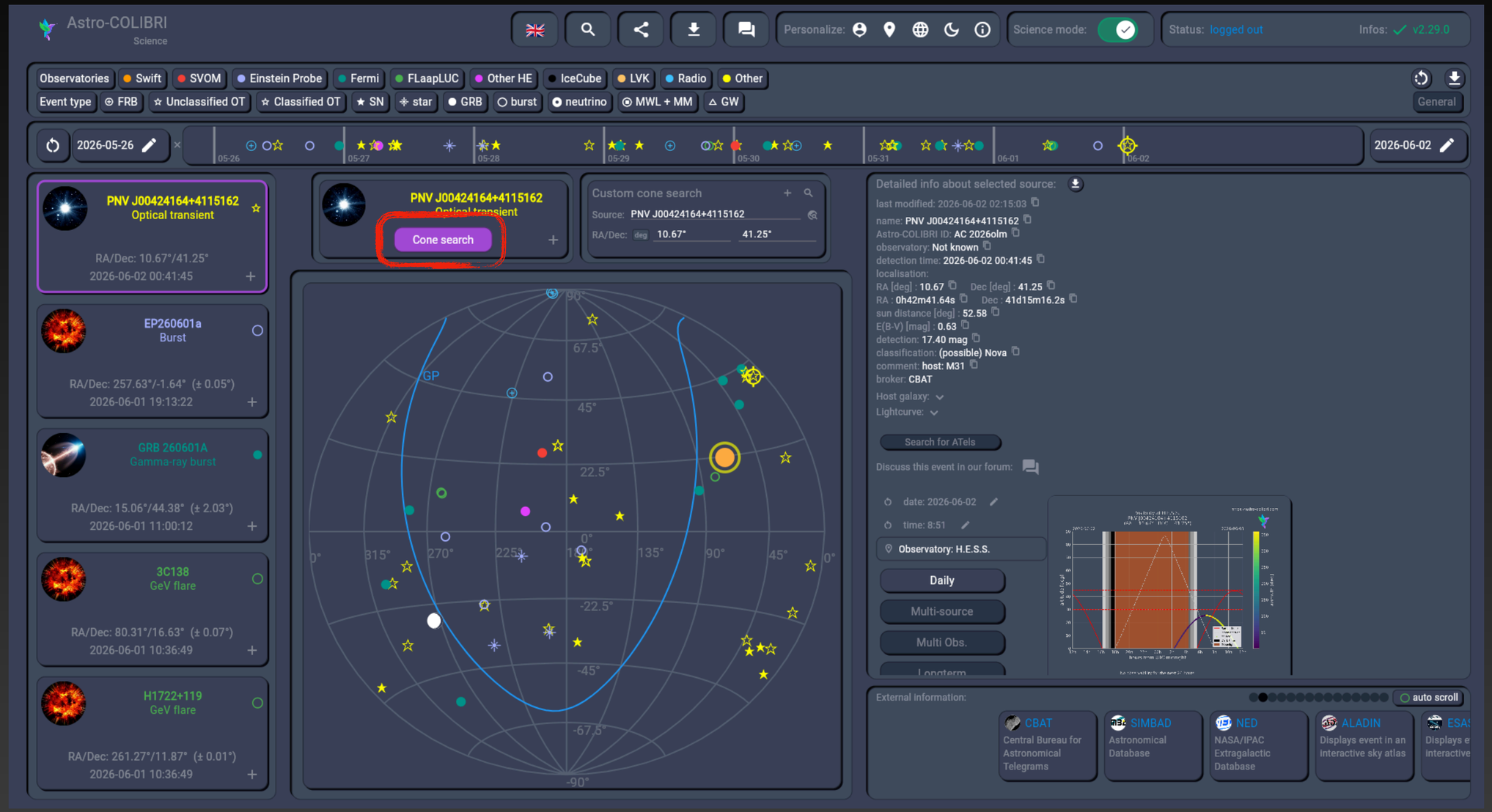

Science mode:
Download your filters
Astro-COLIBRI
Science
Personalize:
Science mode:
Observatories
Swift
SVOM
Einstein Probe
Fermi
FLaapLUC
Other HE
IceCube
LVK
Radio
Other
Event type
FRB
Unclassified OT
Classified OT
SN
star
GRB
burst
neutrino
MWL + MM
GW
General
2026-05-26
2026-06-02
05-26
05-27
05-28
05-29
05-30
05-31
06-01
06-02
AT 2026nwe
Unclassified optical transient
RA/Dec: 42.40°/-31.00°
2026-05-30 09:56:57
SN 2026nwk
Supernova
RA/Dec: 175.60°/10.67°
2026-05-30 07:27:02
GRB 260530A
Gamma-ray burst
RA/Dec: 92.97°/12.71° (± 6.37°)
2026-05-30 06:10:52
AT 2026nwa
Unclassified optical transient
RA/Dec: 302.43°/-33.83°
2026-05-30 00:31:02
GRB 260530C
Gamma-ray burst
RA/Dec: 196.66°/26.38°
2026-05-30 00:13:15
SN 2026nwk
Supernova
Cone search
Custom cone search
Source: SN 2026nwk
RA/Dec: deg 175.6° 10.67°
GP
90°
67.5°
45°
22.5°
0°
-22.5°
-45°
-67.5°
-90°
315°
270°
225°
135°
90°
45°
0°
Detailed info about selected source:
last modified: 2026-06-02 12:10:42
Archive:
name: SN 2026nwk
Astro-COLIBRI ID: AC 2026ohn
observatory: ATLAS
discovery name: ATLAS26goi
detection time: 2026-05-30 07:27:02
localisation:
RA [deg] : 175.60
Dec [deg] : 10.67
RA : 11h42m24.43s
Dec : 10d40m7.09s
sun distance [deg] : 103.03
E(B-V) [mag] : 0.04
detection: 18.77 mag (orange-ATLAS)
classification: SN Ia
redshift: 0.08
broker: TNS
Host galaxy:
Lightcurve:
Light-curve fit (NMMA):
Archival context
Search for ATels
Discuss this event in our forum:
date: 2026-06-02
External information:
auto scroll
LSXPS
Living Swift-XRT point source catalogue
FAVA
Photometric lightcurve of GeV photons recorded by
SSDC
Spectral energy distribution (SED) of the selected sky
DAS
Data Aggregation Service
SNAD
Web portal for ZTF detected objects (DR13)

More details about Events

RA/Dec, detection time, observatory/instrument, ...



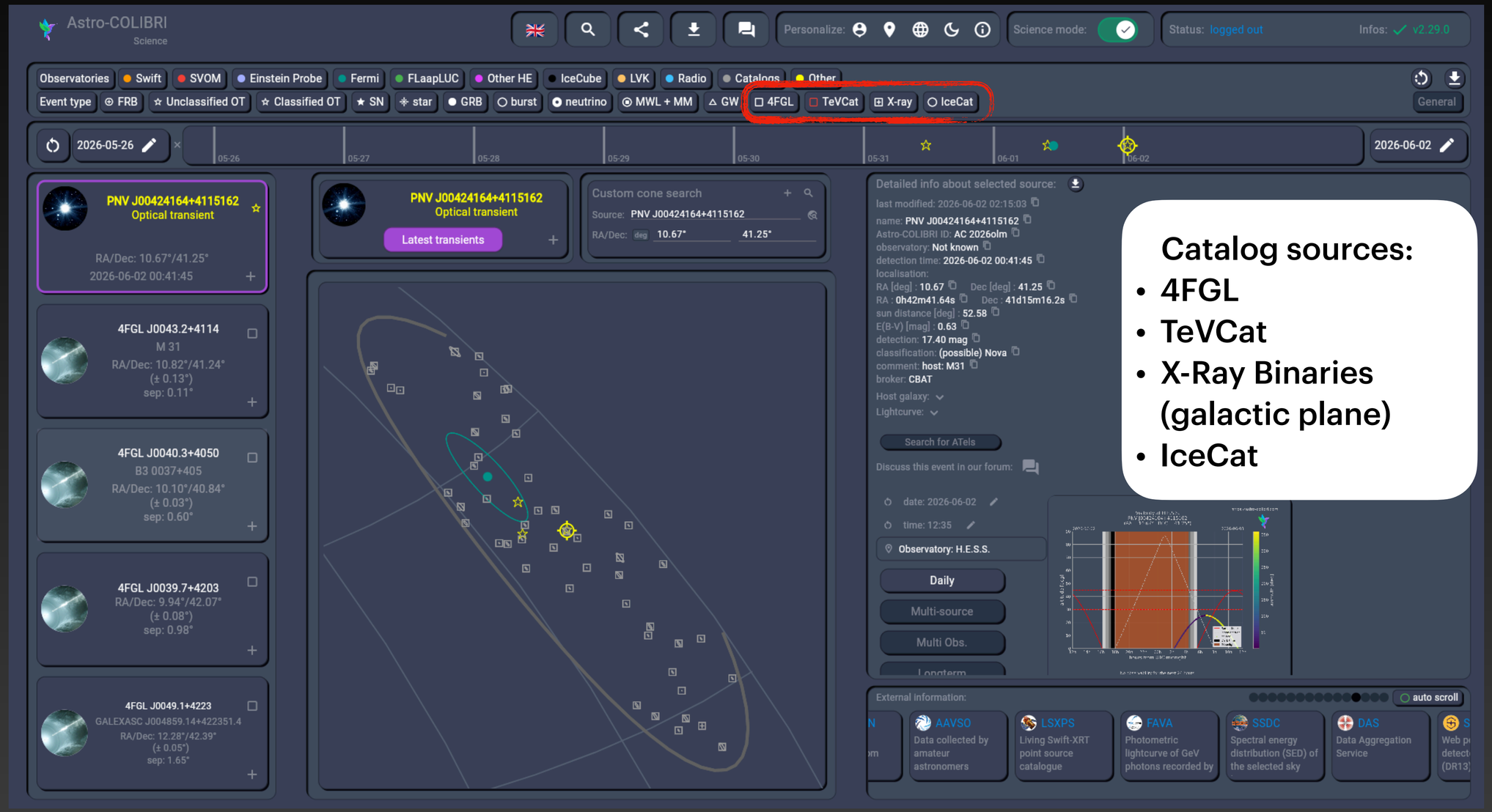
Cone Search


Astro-COLIBRI
Science
Personalize:
Science mode:
Status: logged out
Infos: v2.29.0
Observatories
Swift
SVOM
Einstein Probe
Fermi
FLaapLUC
Other HE
IceCube
LVK
Radio
Other
Event type
FRB
Unclassified OT
Classified OT
SN
star
GRB
burst
neutrino
MWL + MM
GW
General
2026-05-26
2026-06-02
PNV J00424164+4115162
Optical transient
RA/Dec: 10.67°/41.25°
2026-06-02 00:41:45
EP260601a
Burst
RA/Dec: 257.63°/-1.64° (± 0.05°)
2026-06-01 19:13:22
GRB 260601A
Gamma-ray burst
RA/Dec: 15.06°/44.38° (± 2.03°)
2026-06-01 11:00:12
3C138
GeV flare
RA/Dec: 80.31°/16.63° (± 0.07°)
2026-06-01 10:36:49
H1722+119
GeV flare
RA/Dec: 261.27°/11.87° (± 0.01°)
2026-06-01 10:36:49
PNV J00424164+4115162
Optical transient
Cone search
Custom cone search
Source: PNV J00424164+4115162
RA/Dec: deg 10.67° 41.25°
GP
Detailed info about selected source:
last modified: 2026-06-02 02:15:03
name: PNV J00424164+4115162
Astro-COLIBRI ID: AC 2026olm
observatory: Not known
detection time: 2026-06-02 00:41:45
localisation:
RA [deg] : 10.67
Dec [deg] : 41.25
RA : 0h42m41.64s
Dec : 41d15m16.2s
sun distance [deg] : 52.58
E(B-V) [mag] : 0.63
detection: 17.40 mag
classification: (possible) Nova
comment: host: M31
broker: CBAT
Host galaxy:
Lightcurve:
Search for ATels
Discuss this event in our forum:
date: 2026-06-02
time: 8:51
Observatory: H.E.S.S.
Daily
Multi-source
Multi Obs.
Longterm
External information:
auto scroll
CBAT
Central Bureau for Astronomical Telegrams
SIMBAD
Astronomical Database
NED
NASA/IPAC Extragalactic Database
ALADIN
Displays event in an interactive sky atlas
ESA
Displays e interactive

Cone Search

Science mode:

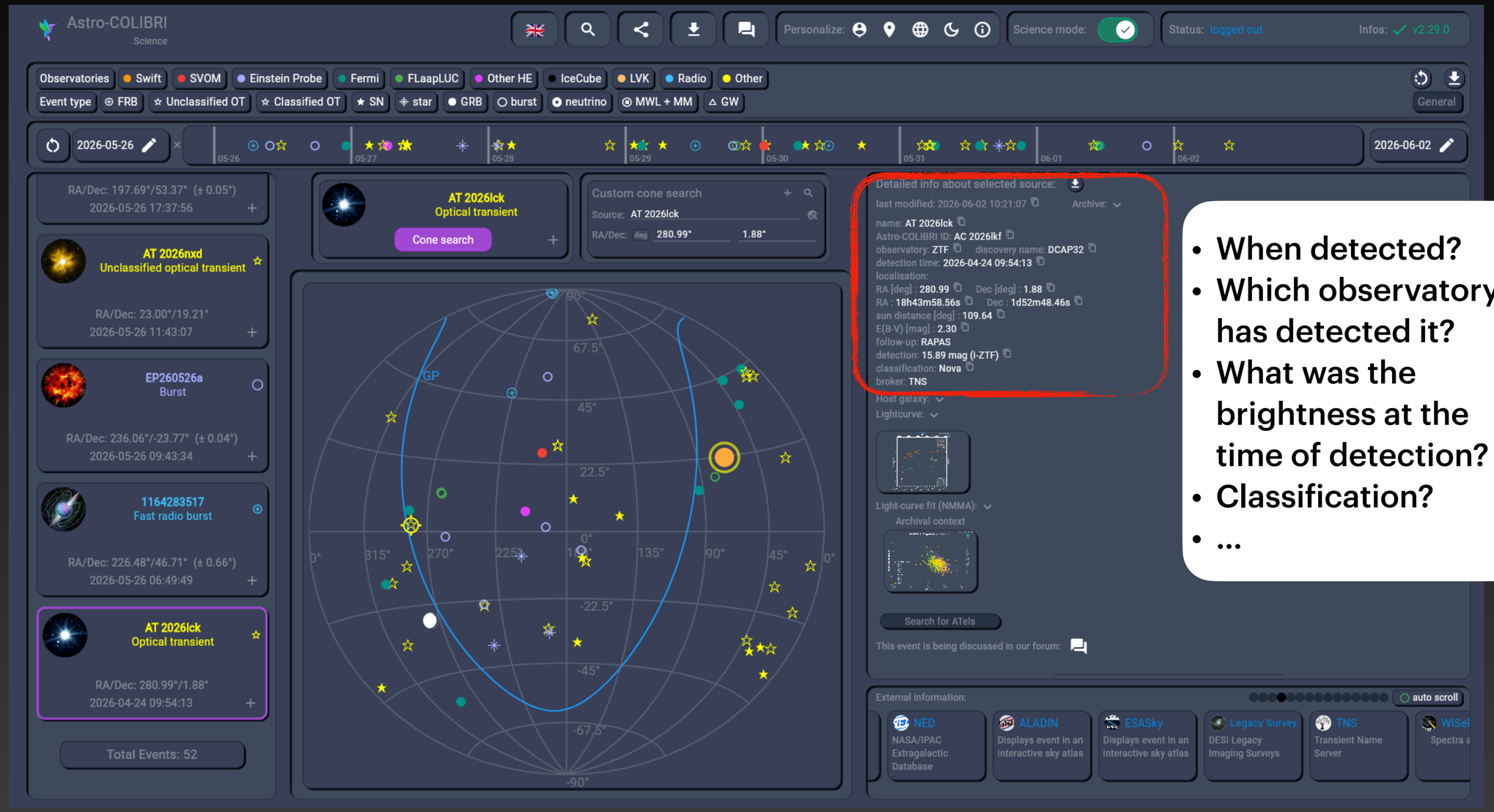
Custom cone search by: name or coordinates (Ra/Dec)



Catalog sources:

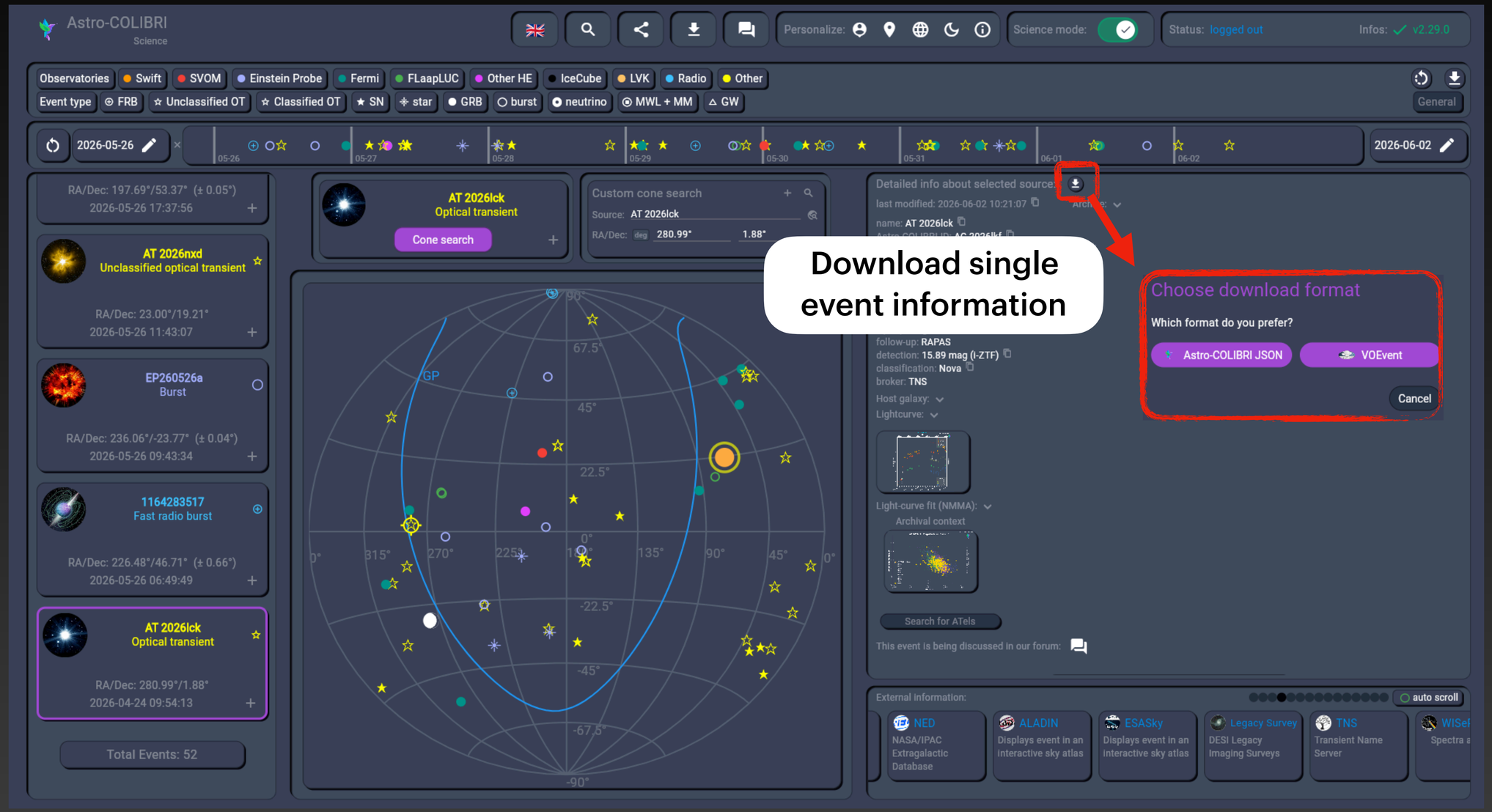
- 4FGL
- TeVCat
- X-Ray Binaries (galactic plane)
- IceCat

Event Info

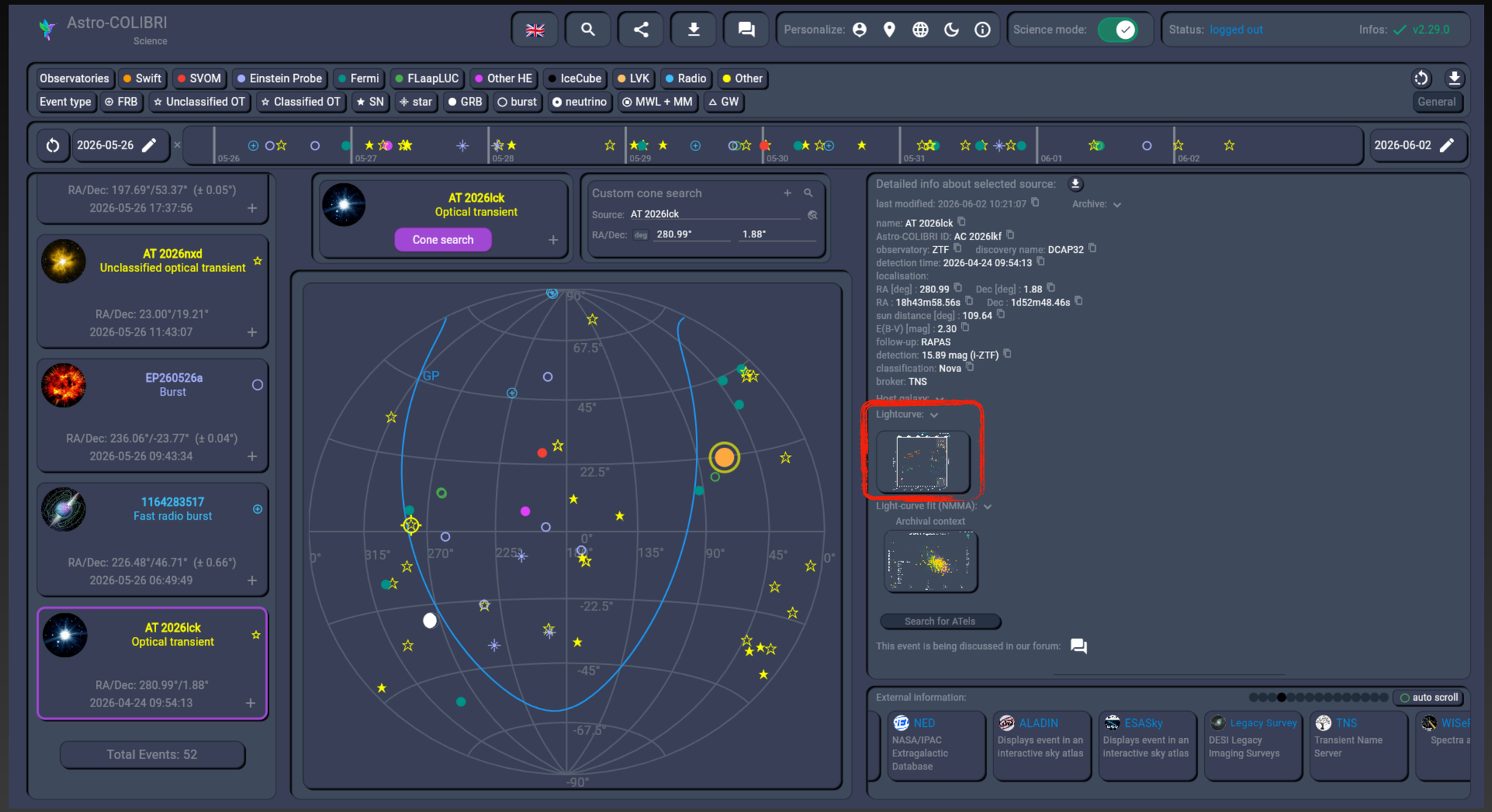


- When detected?
- Which observatory has detected it?
- What was the brightness at the time of detection?
- Classification?
- ...

Event Info

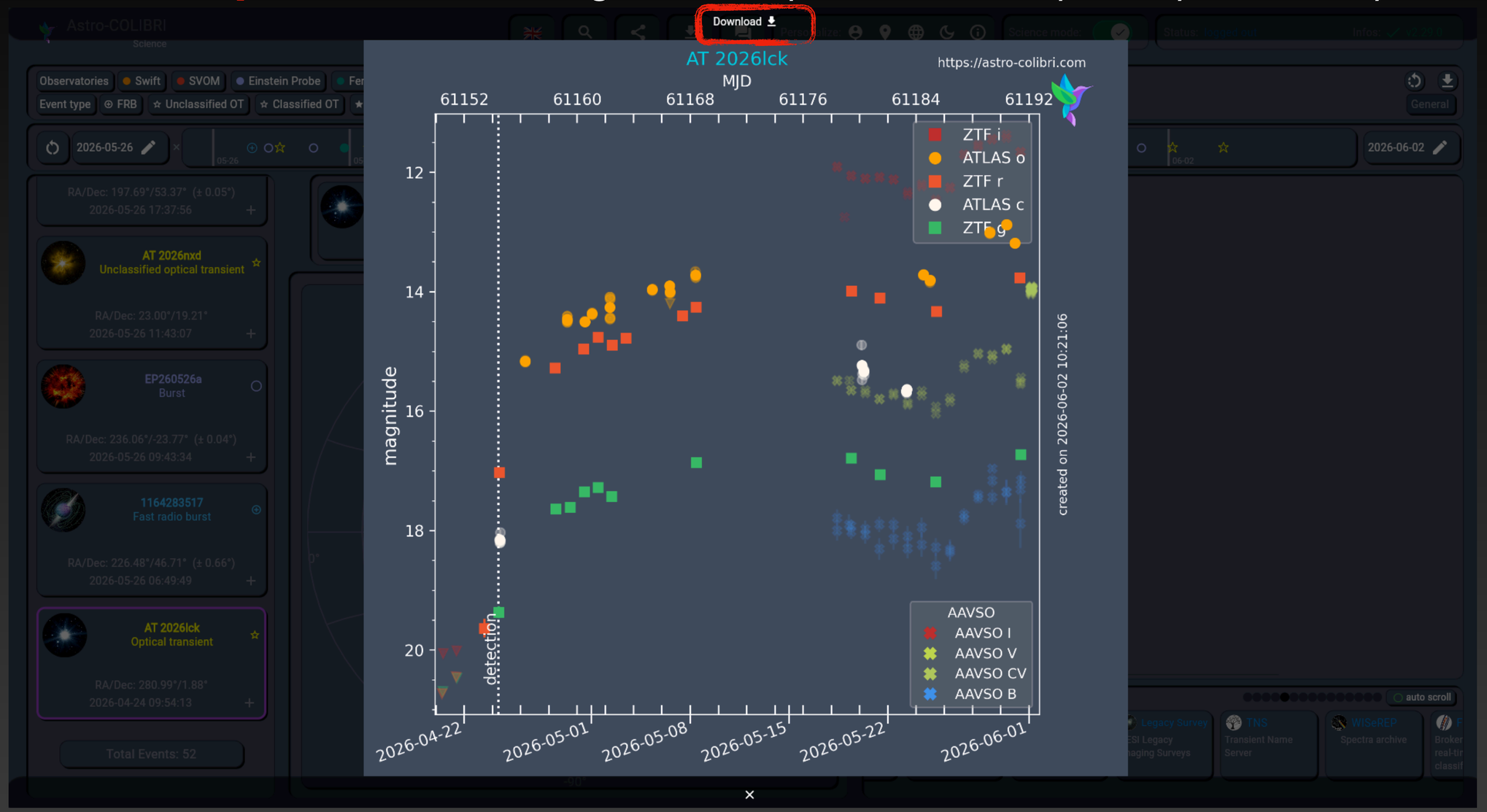

Astro-COLIBRI
Science
Personalize:
Science mode:
Status: logged out
Infos: v2.29.0
Observatories
Swift
SVOM
Einstein Probe
Fermi
FLaapLUC
Other HE
IceCube
LVK
Radio
Other
Event type
FRB
Unclassified OT
Classified OT
SN
star
GRB
burst
neutrino
MWL + MM
GW
General
2026-05-26
2026-06-02
AT 2026nxd
Unclassified optical transient
EP260526a
Burst
1164283517
Fast radio burst
AT 2026lck
Optical transient
Total Events: 52
Cone search
Custom cone search
Source: AT 2026lck
Detailed info about selected source:
Download single event information
Choose download format
Which format do you prefer?
Astro-COLIBRI JSON
VOEvent
Cancel
Search for ATels
External information:
auto scroll
NED
NASA/IPAC Extragalactic Database
ALADIN
Displays event in an interactive sky atlas
ESASky
Displays event in an interactive sky atlas
Legacy Survey
DESI Legacy Imaging Surveys
TNS
Transient Name Server

Optical Lightcurves



Optical Lightcurves

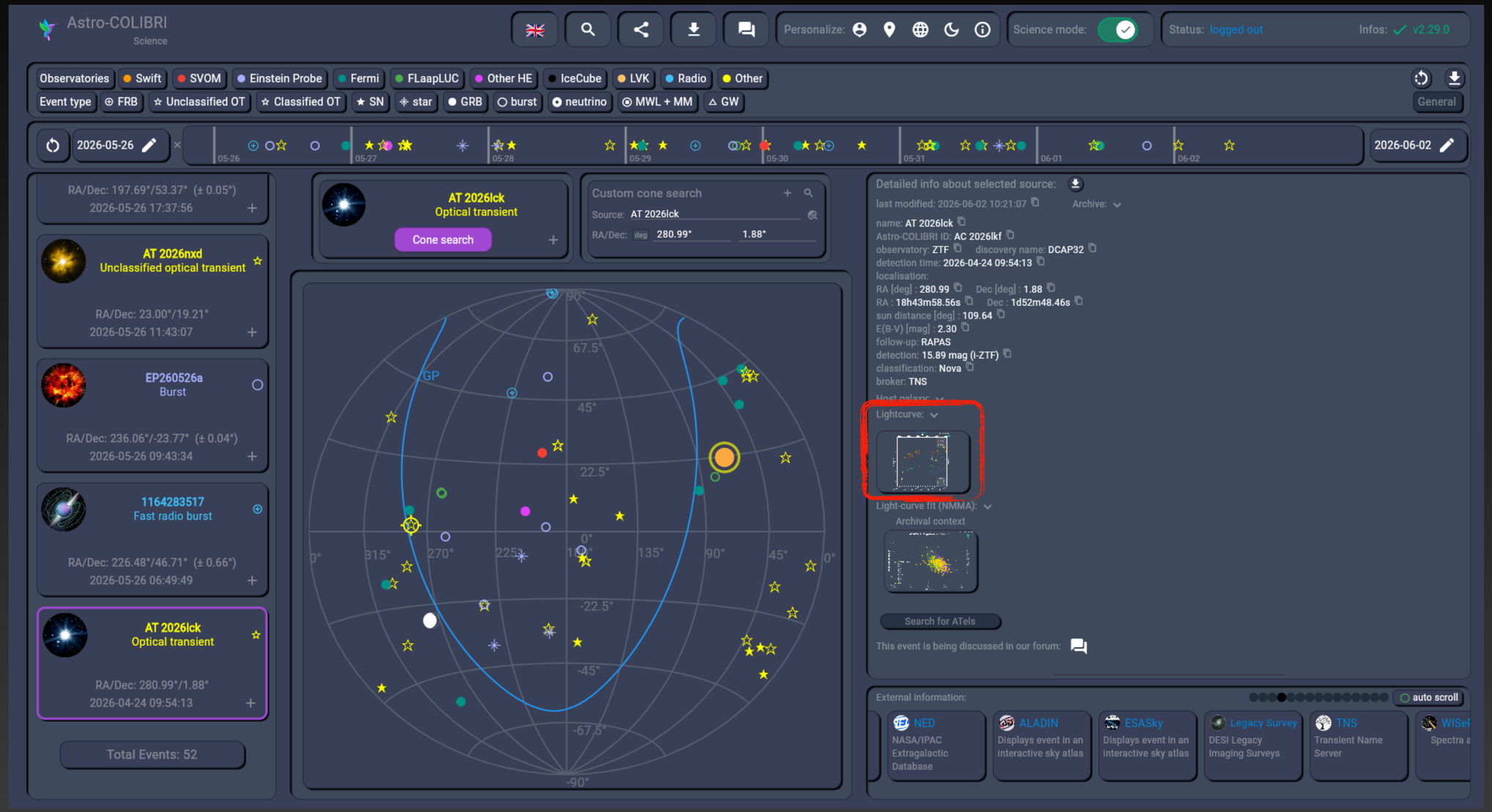
Optical transients: lightcurve updated 1 once per day for 15 days
Classified optical transients: lightcurve updated 1 once per day for 50 days



Optical Lightcurves

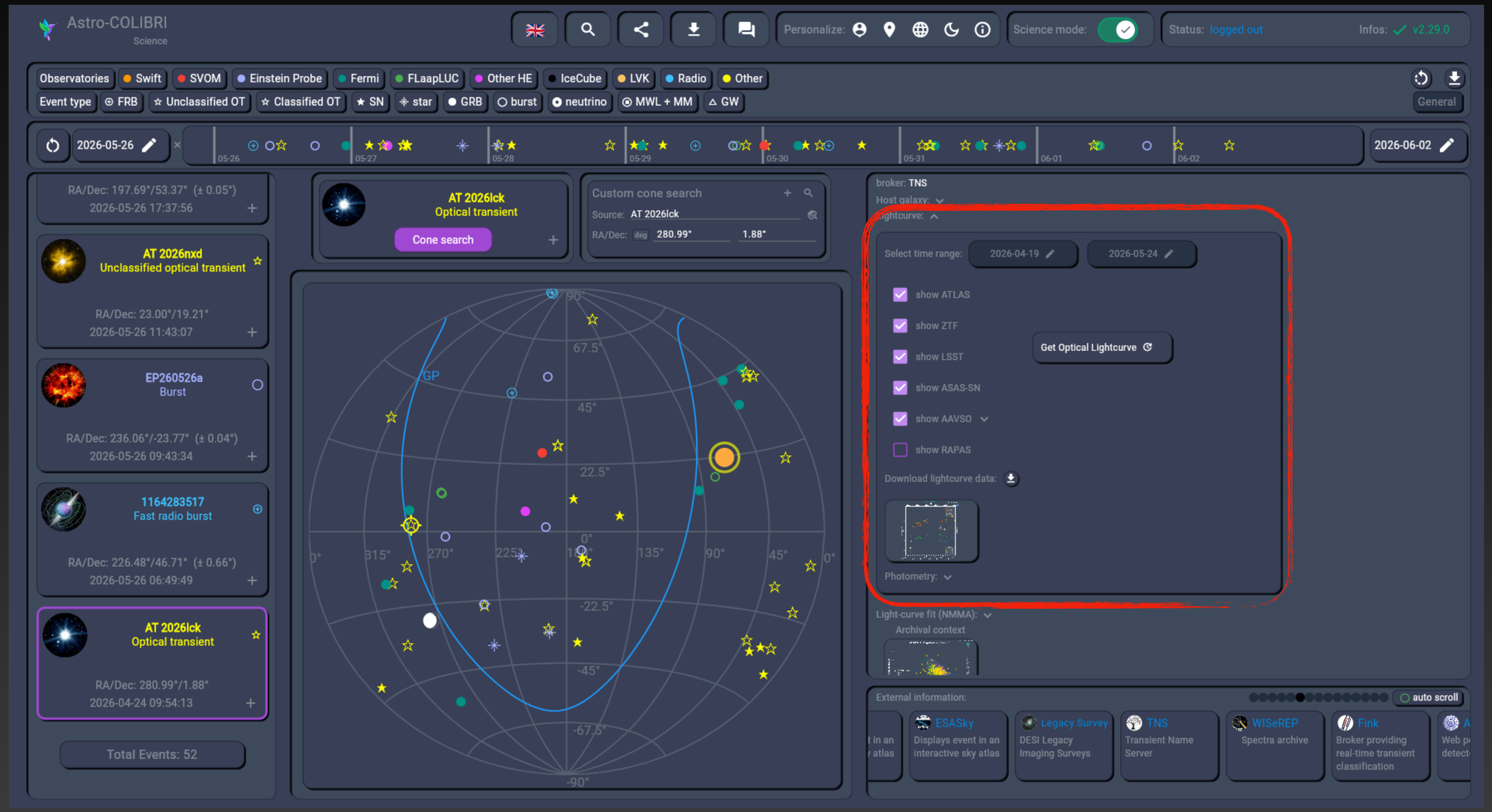
Science mode:

Custom lightcurve query

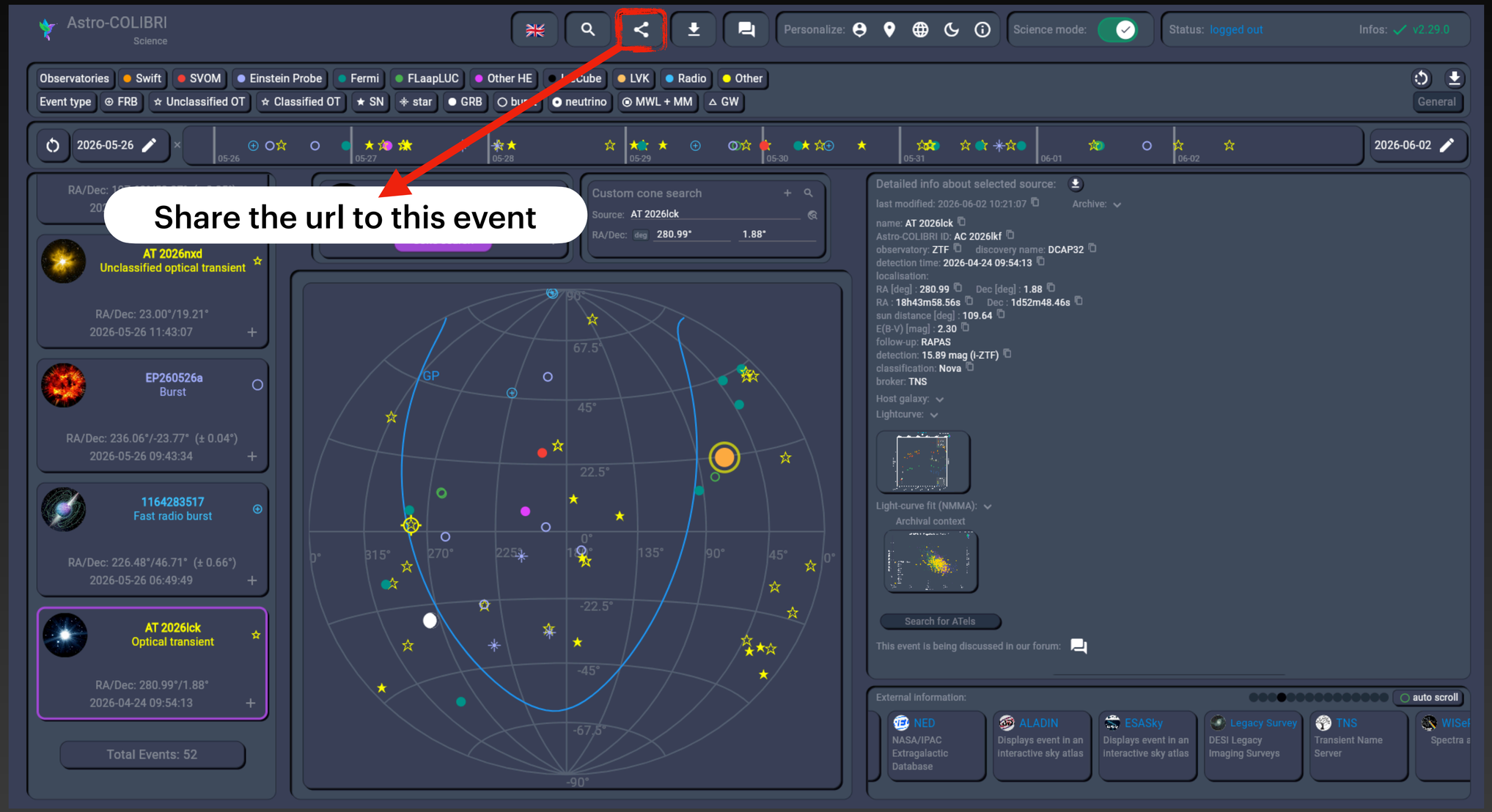


Optical Lightcurves

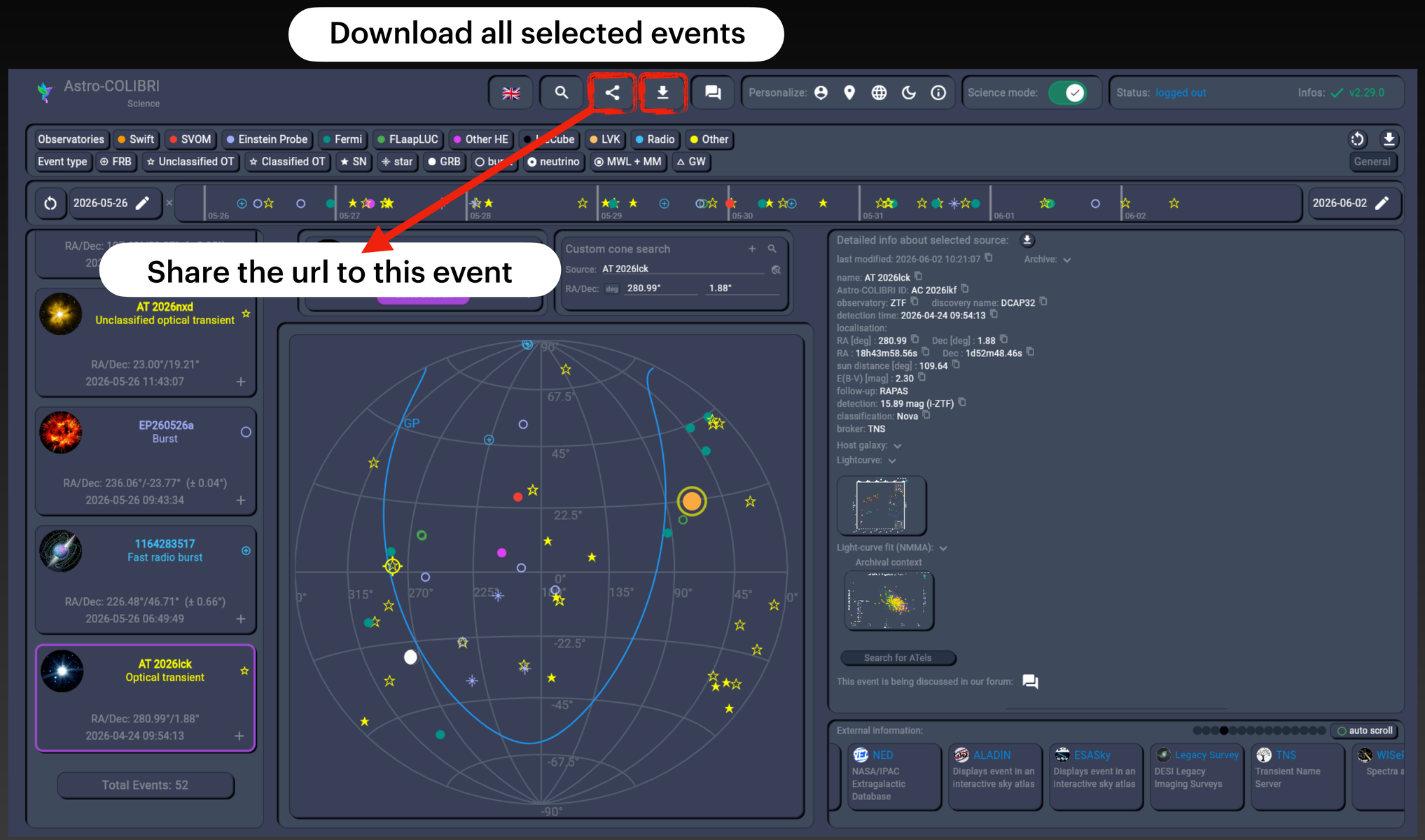
Custom lightcurve query: chose time range, brokers + download data



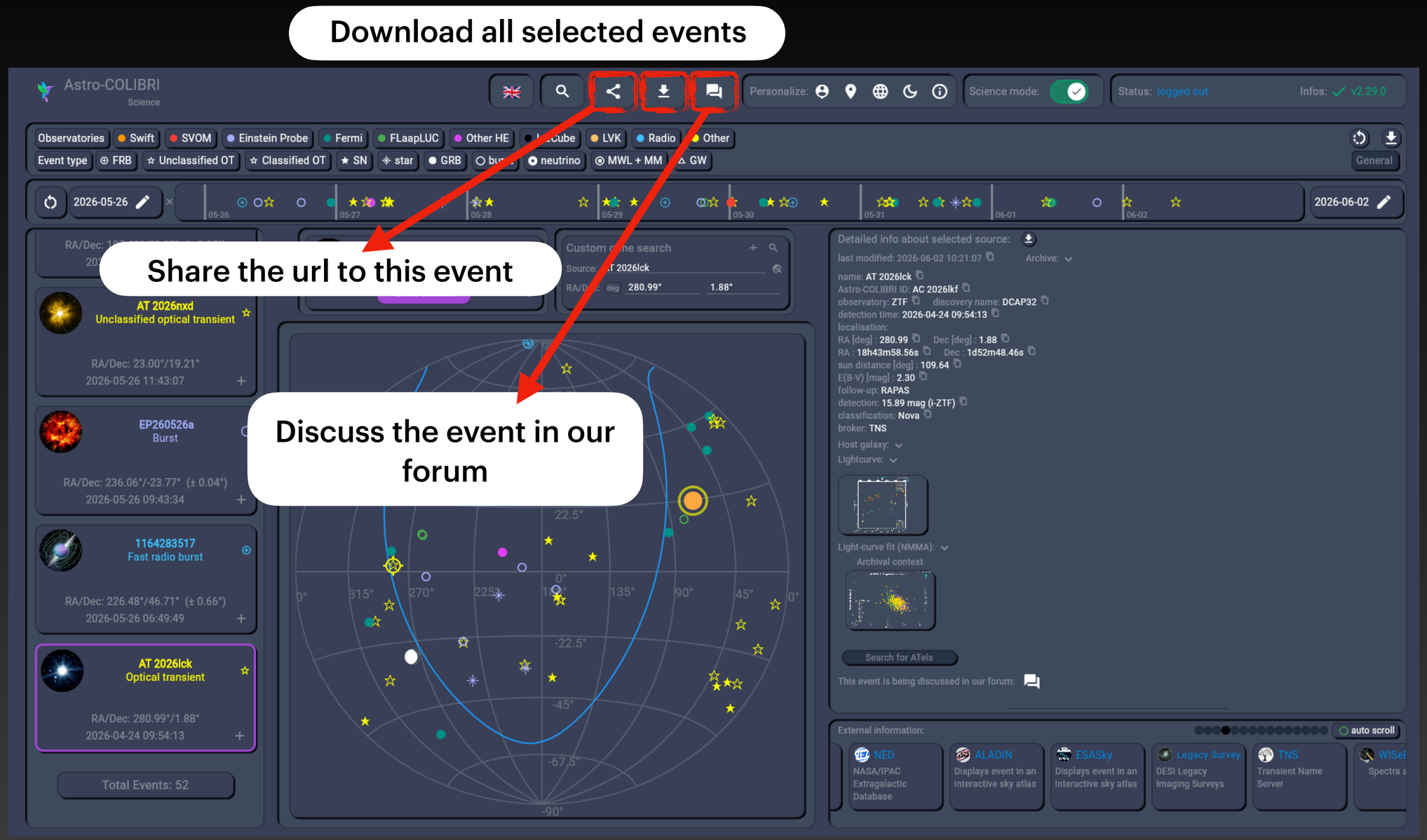
Menu Area


Astro-COLIBRI
Science
Personalize:
Science mode:
Status: logged out
Infos: v2.29.0
Observatories
Swift
SVOM
Einstein Probe
Fermi
FLaapLUC
Other HE
LVK
Radio
Other
Event type
FRB
Unclassified OT
Classified OT
SN
star
GRB
neutrino
MWL + MM
GW
General
2026-05-26
2026-06-02
Share the url to this event
Custom cone search
Source: AT 2026lck
RA/Dec: deg 280.99° 1.88°
AT 2026nxd
Unclassified optical transient
RA/Dec: 23.00°/19.21°
2026-05-26 11:43:07
EP260526a
Burst
RA/Dec: 236.06°/-23.77° (± 0.04°)
2026-05-26 09:43:34
1164283517
Fast radio burst
RA/Dec: 226.48°/46.71° (± 0.66°)
2026-05-26 06:49:49
AT 2026lck
Optical transient
RA/Dec: 280.99°/1.88°
2026-04-24 09:54:13
Total Events: 52
GP
Detailed info about selected source:
last modified: 2026-06-02 10:21:07
Archive:
name: AT 2026lck
Astro-COLIBRI ID: AC 2026lkf
observatory: ZTF
discovery name: DCAP32
detection time: 2026-04-24 09:54:13
localisation:
RA [deg] : 280.99
Dec [deg] : 1.88
RA : 18h43m58.56s
Dec : 1d52m48.46s
sun distance [deg] : 109.64
E(B-V) [mag] : 2.30
follow-up: RAPAS
detection: 15.89 mag (I-ZTF)
classification: Nova
broker: TNS
Host galaxy:
Lightcurve:
Light-curve fit (NMMA):
Archival context
Search for ATels
This event is being discussed in our forum:
External information:
auto scroll
NED
NASA/IPAC Extragalactic Database
ALADIN
Displays event in an interactive sky atlas
ESASky
Displays event in an interactive sky atlas
Legacy Survey
DESI Legacy Imaging Surveys
TNS
Transient Name Server

Menu Area


Science mode:
Download all selected events
Share the url to this event
Astro-COLIBRI
Science
Personalize:
Science mode:
Status: logged out
Infos: v2.29.0
Observatories
Swift
SVOM
Einstein Probe
Fermi
FLaapLUC
Other HE
LVK
Radio
Other
Event type
FRB
Unclassified OT
Classified OT
SN
star
GRB
neutrino
MWL + MM
GW
General
2026-05-26
2026-06-02
AT 2026nxd
Unclassified optical transient
RA/Dec: 23.00°/19.21°
2026-05-26 11:43:07
EP260526a
Burst
RA/Dec: 236.06°/-23.77° (± 0.04°)
2026-05-26 09:43:34
1164283517
Fast radio burst
RA/Dec: 226.48°/46.71° (± 0.66°)
2026-05-26 06:49:49
AT 2026lck
Optical transient
RA/Dec: 280.99°/1.88°
2026-04-24 09:54:13
Total Events: 52
Custom cone search
Source: AT 2026lck
RA/Dec: deg 280.99° 1.88°
GP
Detailed info about selected source:
last modified: 2026-06-02 10:21:07
Archive:
name: AT 2026lck
Astro-COLIBRI ID: AC 2026lkf
observatory: ZTF
discovery name: DCAP32
detection time: 2026-04-24 09:54:13
localisation:
RA [deg] : 280.99
Dec [deg] : 1.88
RA : 18h43m58.56s
Dec : 1d52m48.46s
sun distance [deg] : 109.64
E(B-V) [mag] : 2.30
follow-up: RAPAS
detection: 15.89 mag (I-ZTF)
classification: Nova
broker: TNS
Host galaxy:
Lightcurve:
Light-curve fit (NMMA):
Archival context
Search for ATels
This event is being discussed in our forum:
External information:
auto scroll
NED
NASA/IPAC Extragalactic Database
ALADIN
Displays event in an interactive sky atlas
ESASky
Displays event in an interactive sky atlas
Legacy Survey
DESI Legacy Imaging Surveys
TNS
Transient Name Server

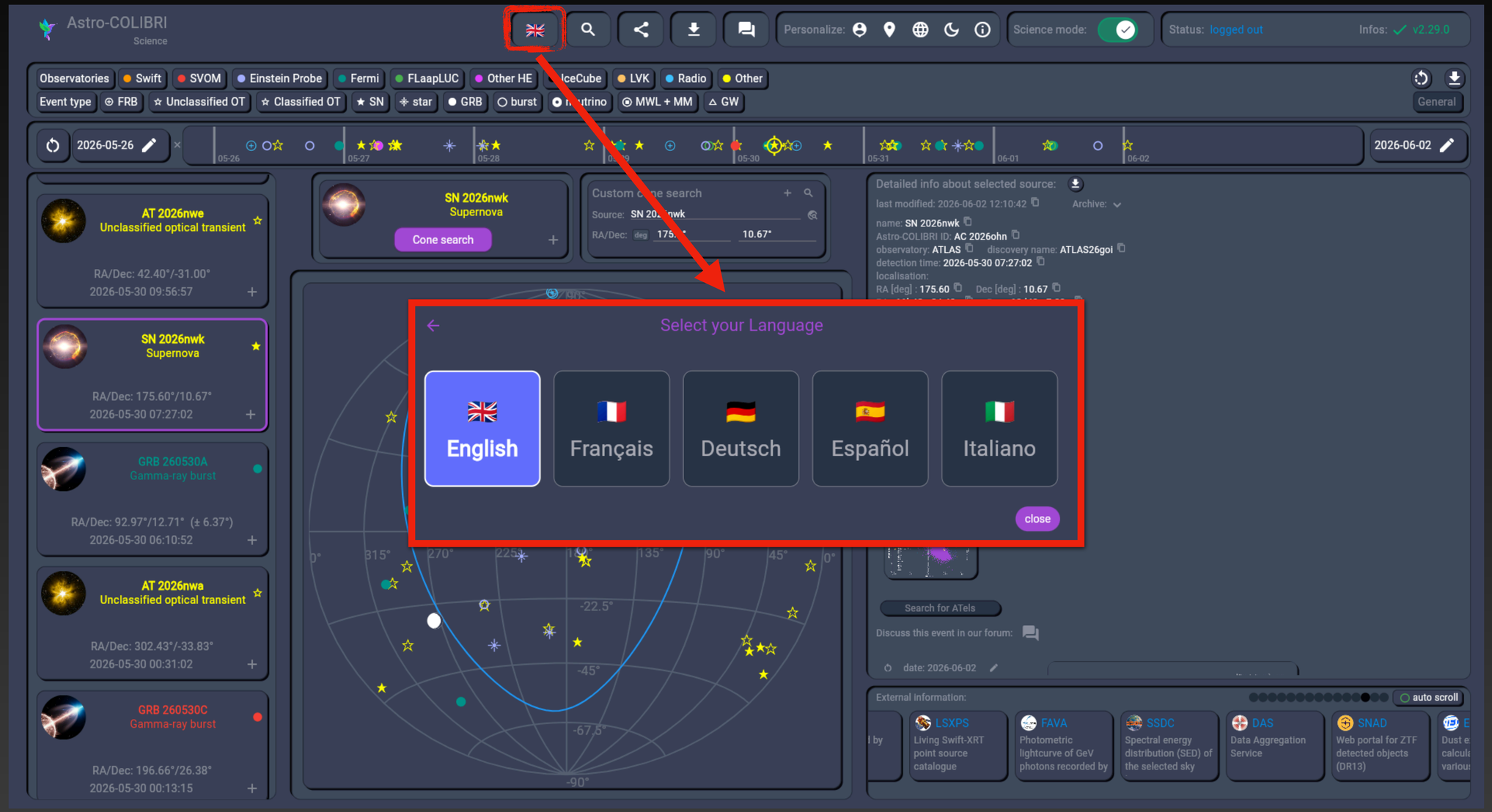
Menu Area


Science mode:
Download all selected events
Share the url to this event
Discuss the event in our forum
Astro-COLIBRI
Science
Personalize:
Science mode:
Status: logged out
Infos: v2.29.0
Observatories
Swift
SVOM
Einstein Probe
Fermi
FLaapLUC
Other HE
LVK
Radio
Other
Event type
FRB
Unclassified OT
Classified OT
SN
star
GRB
neutrino
MWL + MM
GW
General
2026-05-26
2026-06-02
AT 2026nxd
Unclassified optical transient
RA/Dec: 23.00°/19.21°
2026-05-26 11:43:07
EP260526a
Burst
RA/Dec: 236.06°/-23.77° (± 0.04°)
2026-05-26 09:43:34
1164283517
Fast radio burst
RA/Dec: 226.48°/46.71° (± 0.66°)
2026-05-26 06:49:49
AT 2026lck
Optical transient
RA/Dec: 280.99°/1.88°
2026-04-24 09:54:13
Total Events: 52
Custom cone search
Source: AT 2026lck
280.99°
1.88°
Detailed info about selected source:
last modified: 2026-06-02 10:21:07
Archive:
name: AT 2026lck
Astro-COLIBRI ID: AC 2026lkf
observatory: ZTF
discovery name: DCAP32
detection time: 2026-04-24 09:54:13
localisation:
RA [deg] : 280.99
Dec [deg] : 1.88
RA : 18h43m58.56s
Dec : 1d52m48.46s
sun distance [deg] : 109.64
E(B-V) [mag] : 2.30
follow-up: RAPAS
detection: 15.89 mag (I-ZTF)
classification: Nova
broker: TNS
Host galaxy:
Lightcurve:
Light-curve fit (NMMA):
Archival context
Search for ATels
This event is being discussed in our forum:
External information:
auto scroll
NED
NASA/IPAC Extragalactic Database
ALADIN
Displays event in an interactive sky atlas
ESASky
Displays event in an interactive sky atlas
Legacy Survey
DESI Legacy Imaging Surveys
TNS
Transient Name Server

User Account

Science mode:

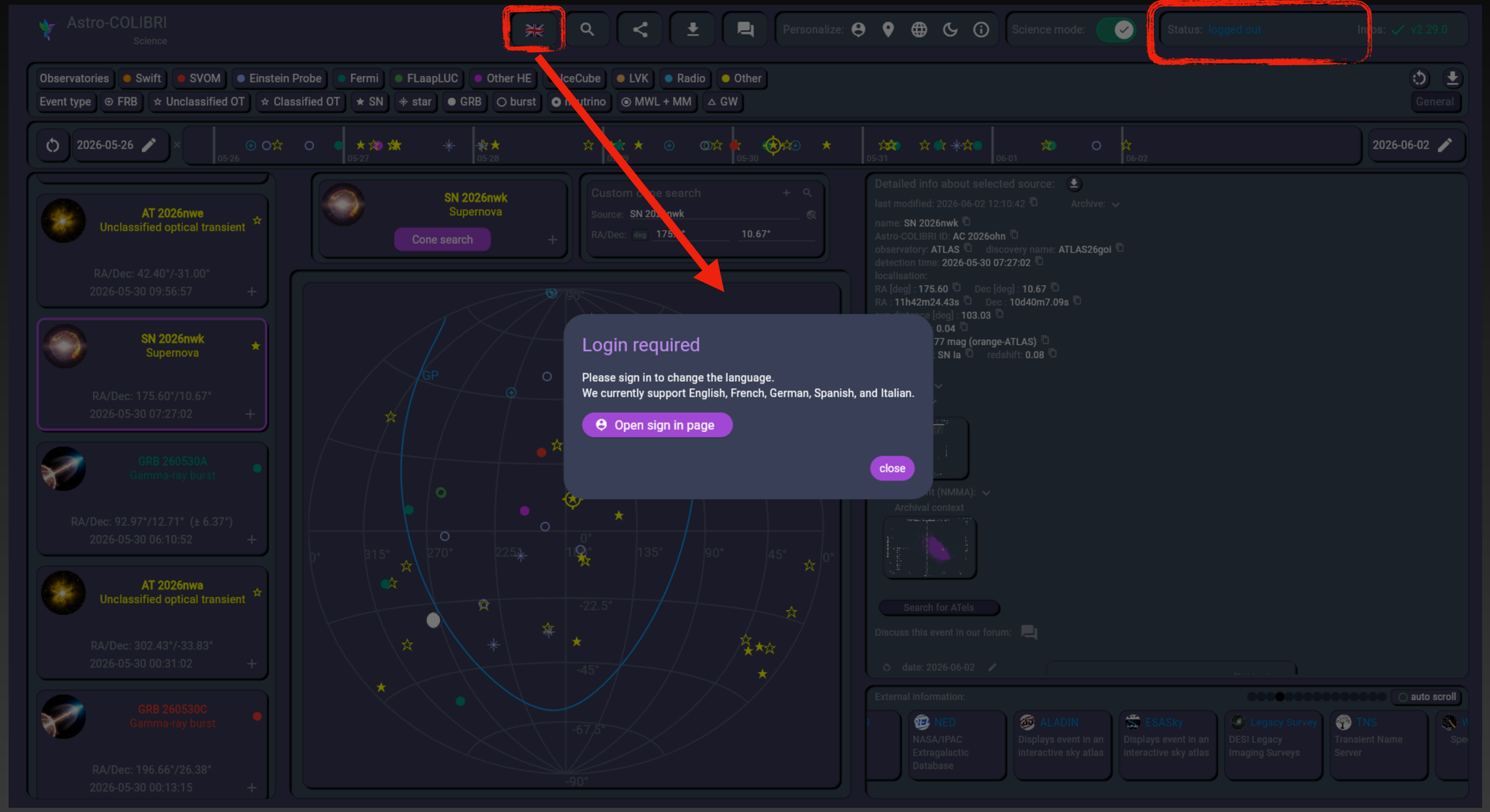
Select your language



User Account

Science mode:

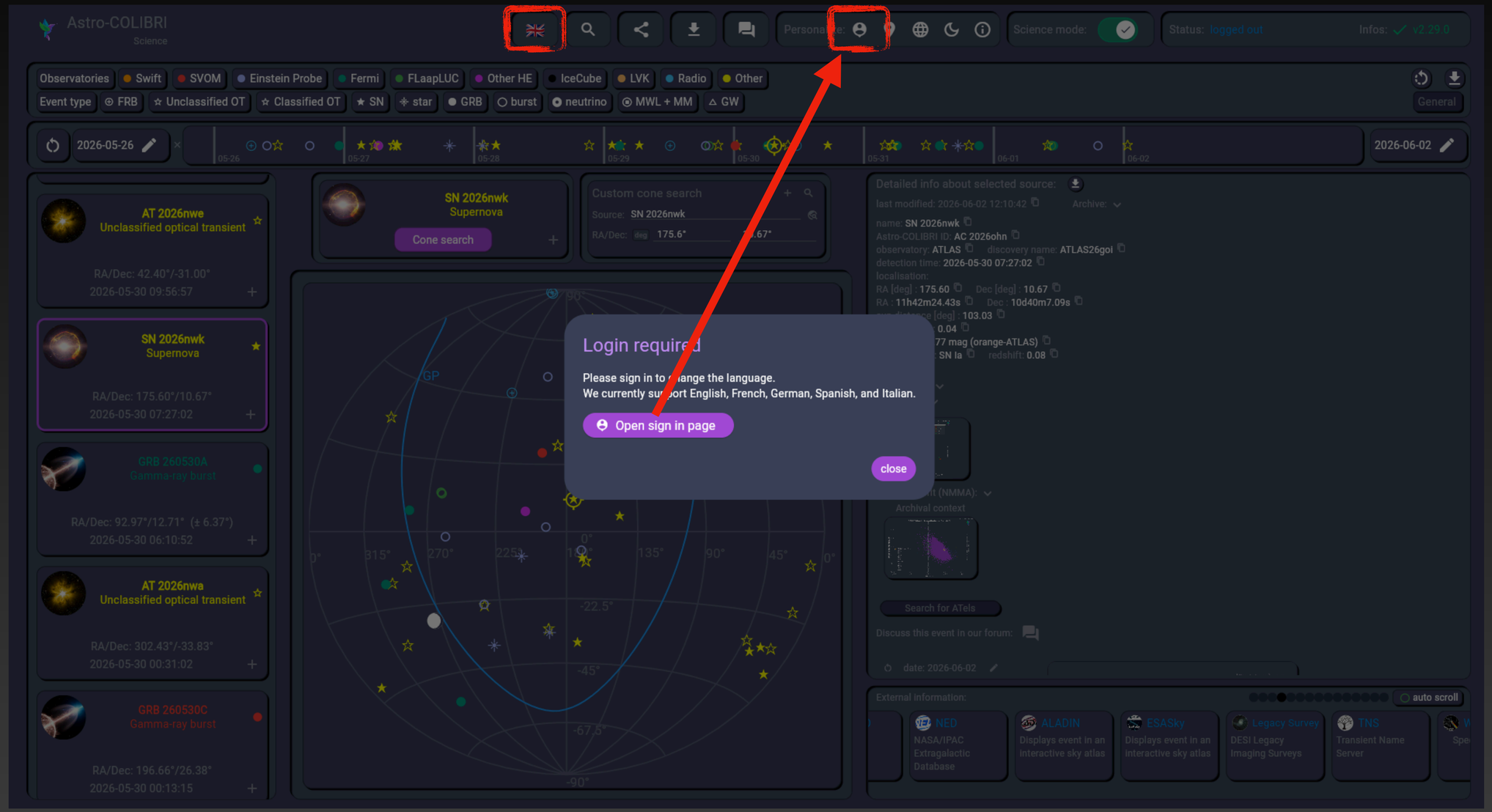
Select your language: login required



User Account

Science mode:

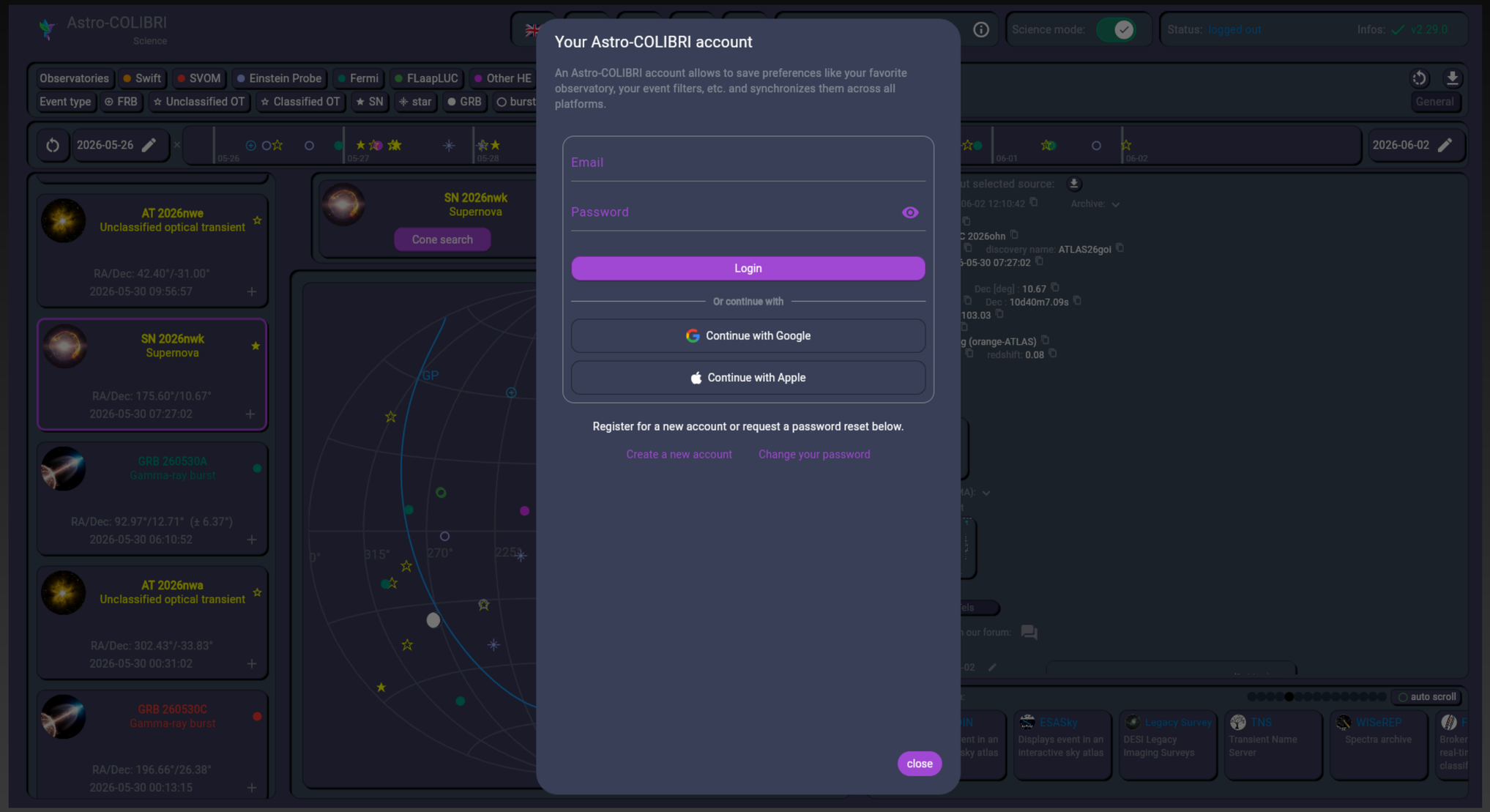
Select your language: login required



User Account

Science mode:

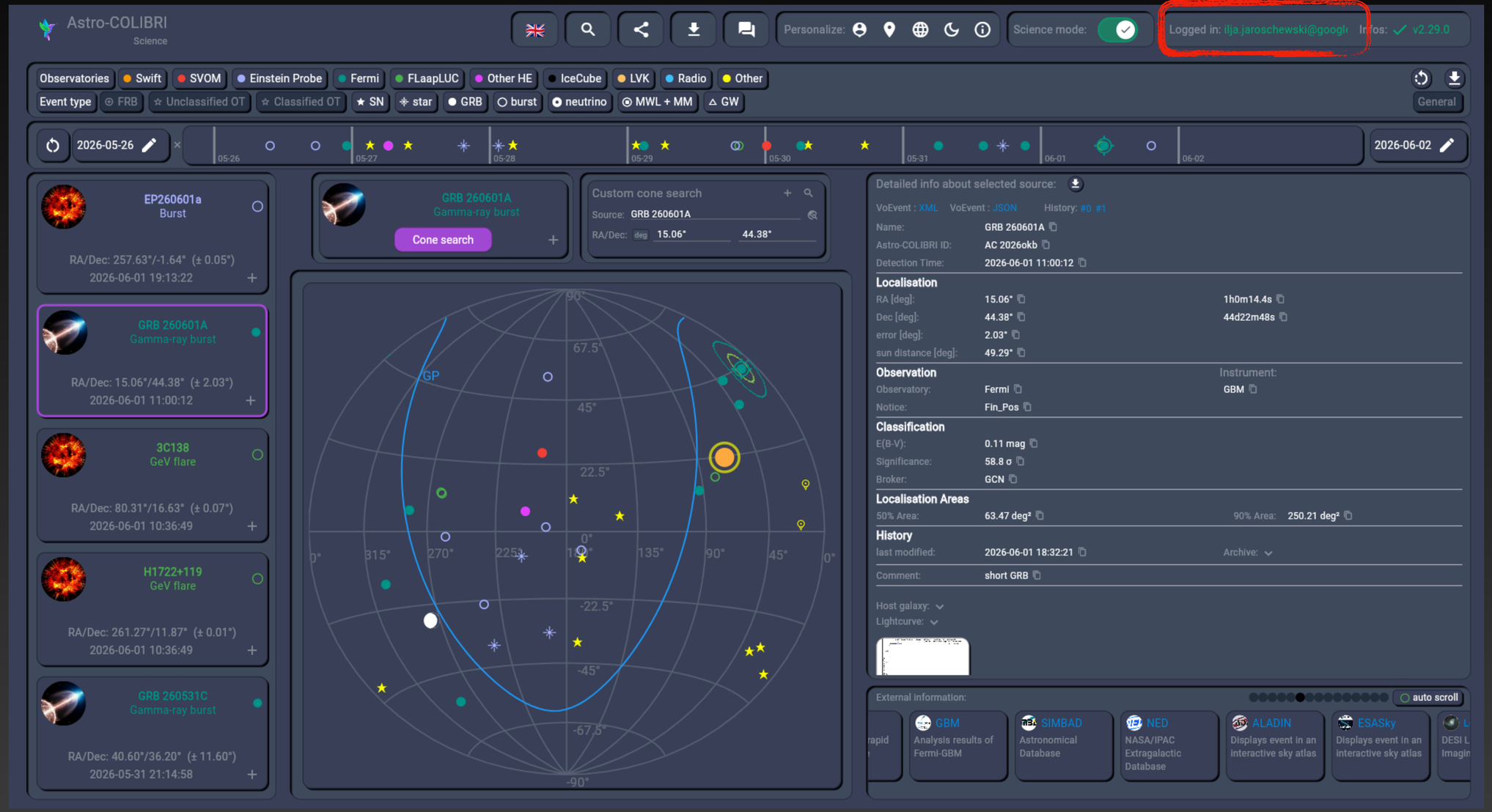
Login via **Email/PW** or **Google account** or **Apple account**



User Account

Science mode:

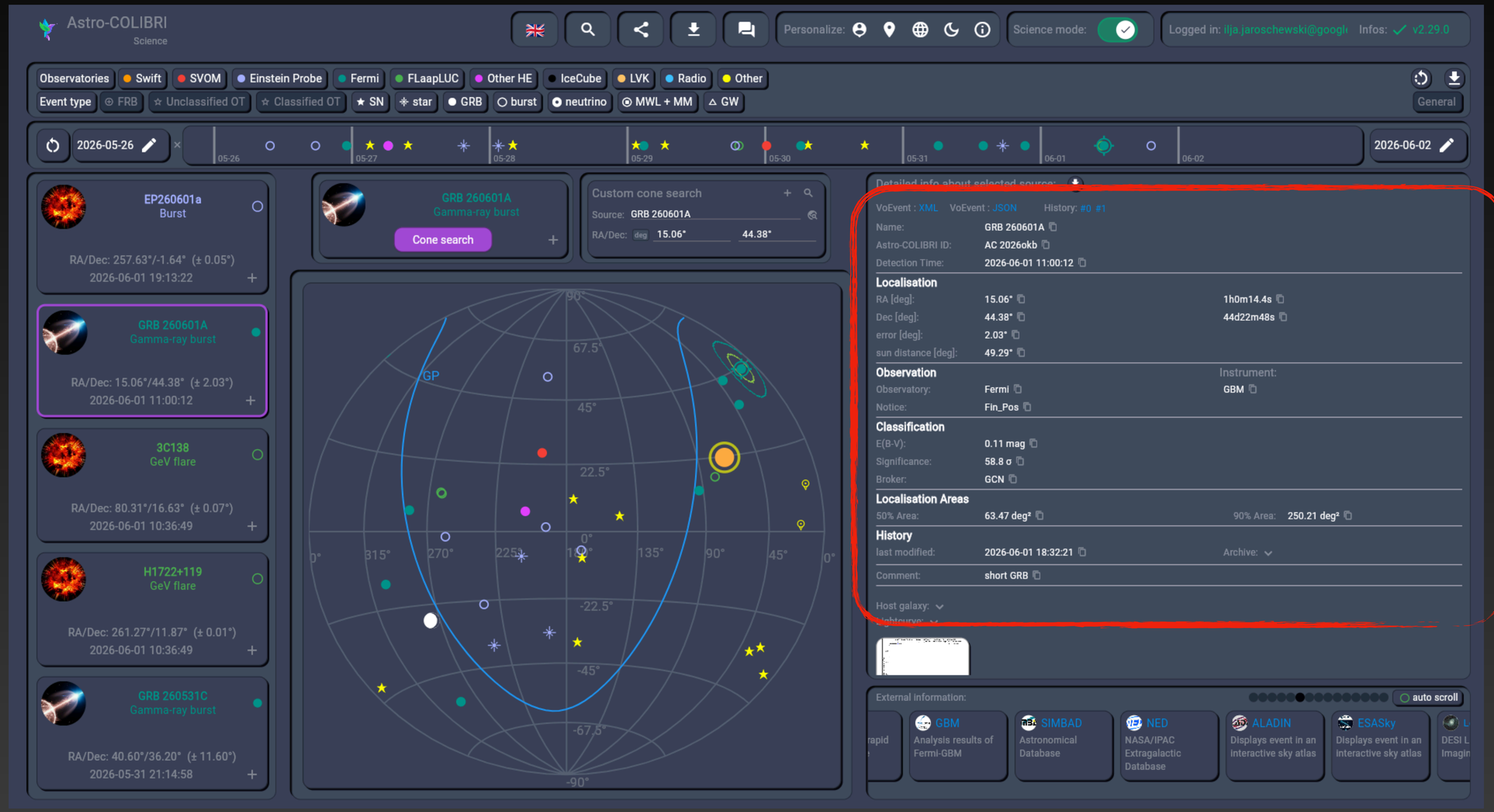
Logged-in: filters are automatically loaded!



User Account

Science mode:

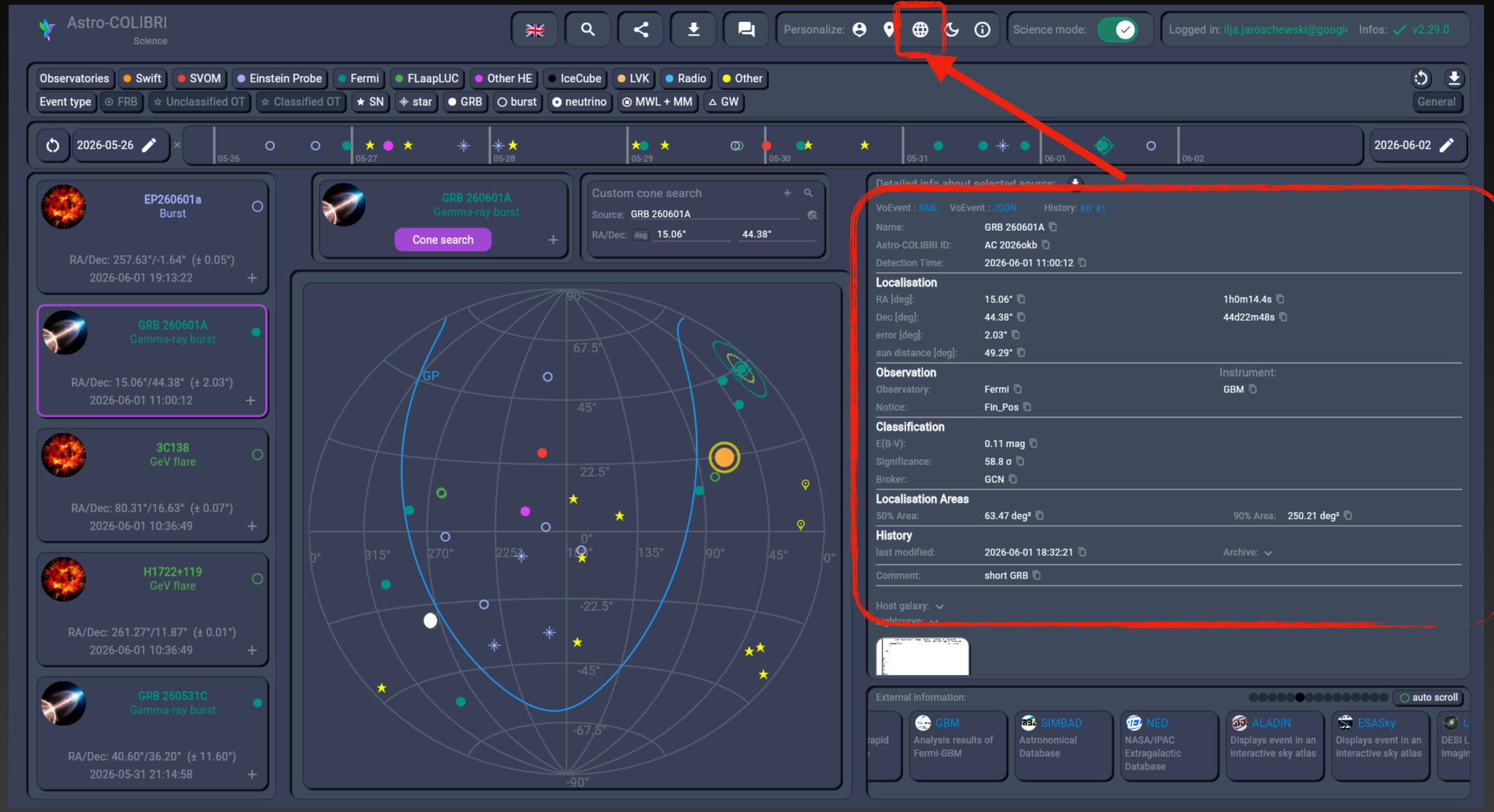
Different view



User Account

Science mode:

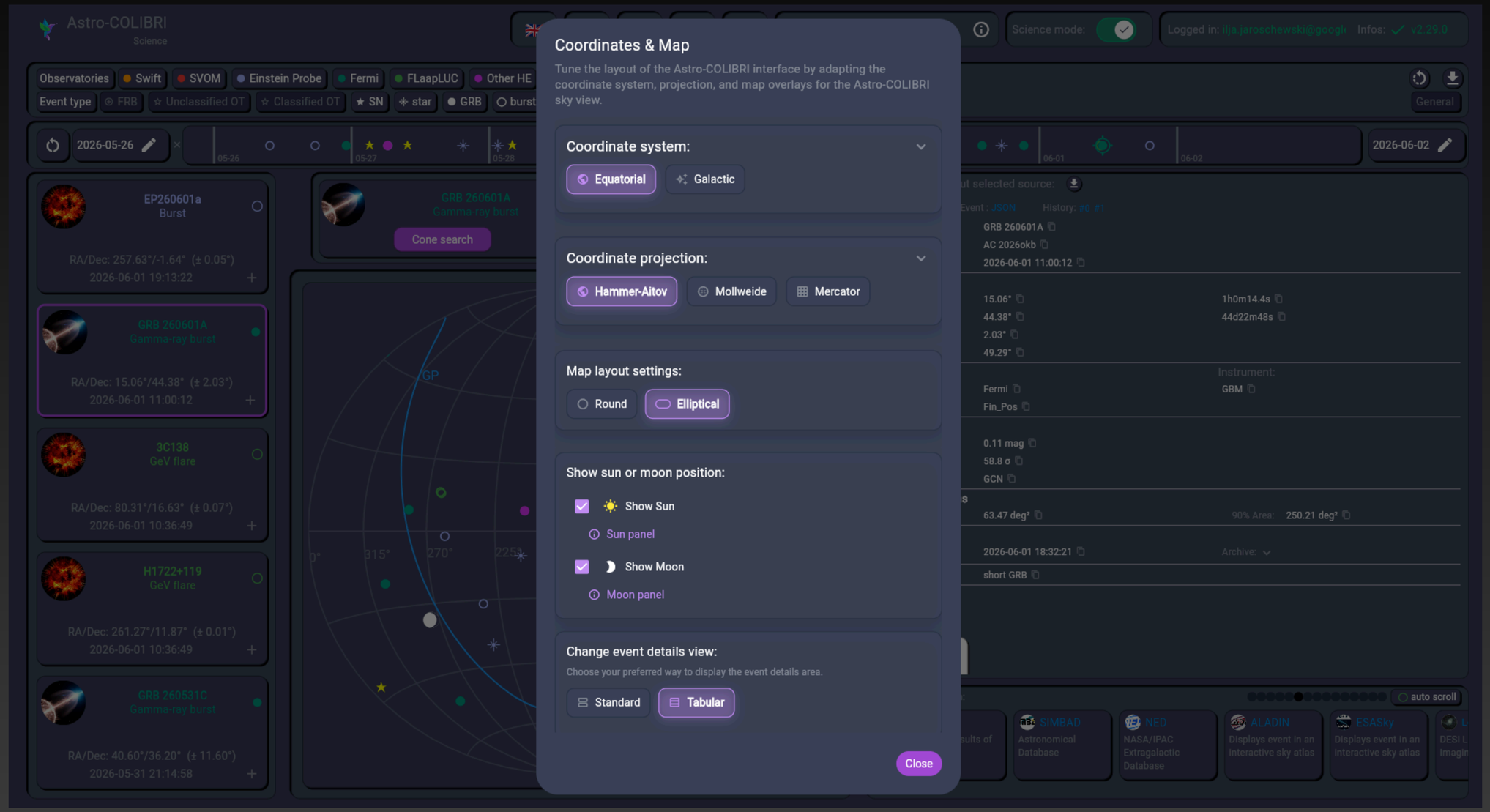
Different view



User Account

Science mode:

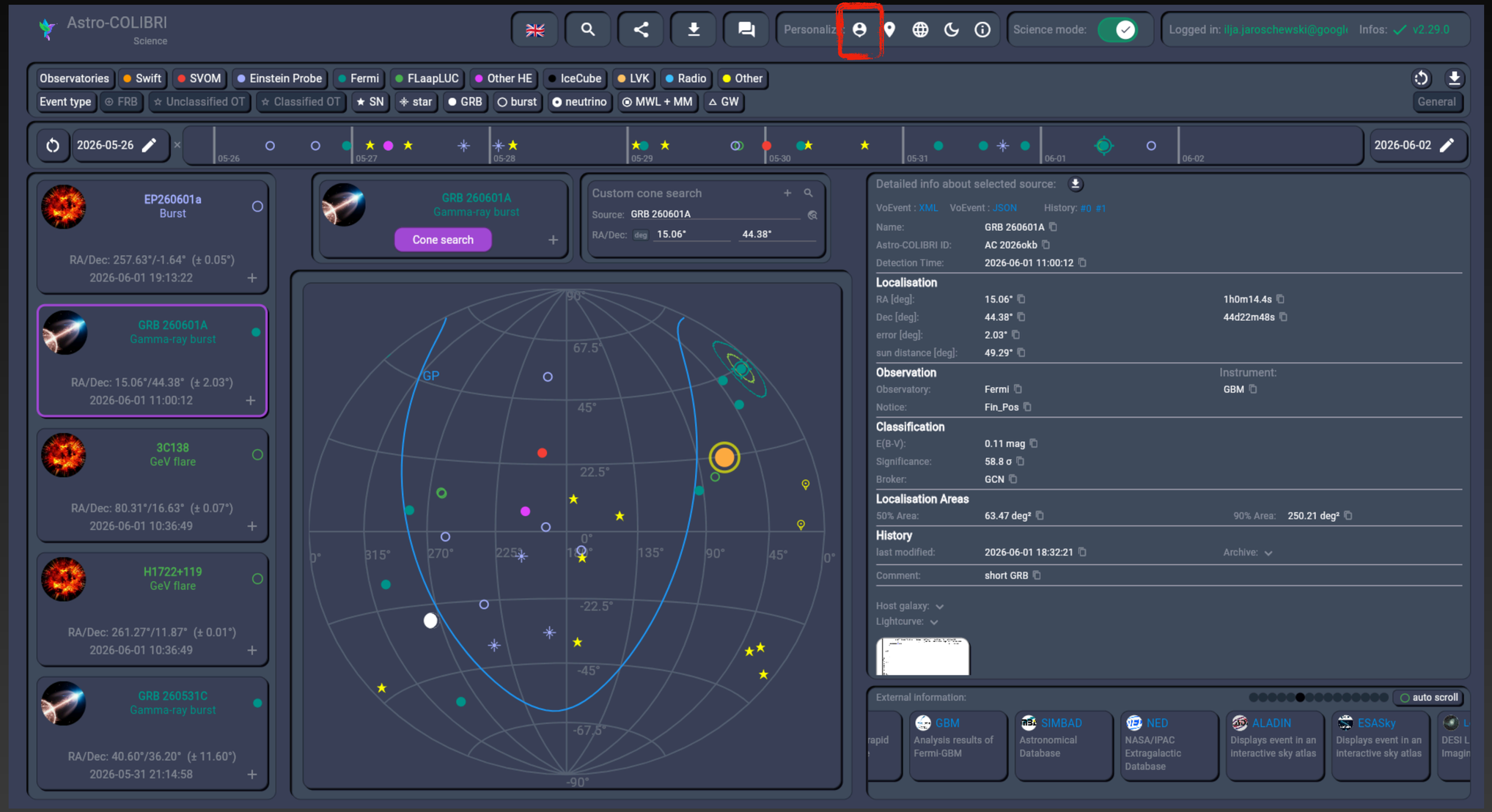
Change the view of the Sky-Map + Info area + whole screen (saved in user data)



User Account

Science mode:

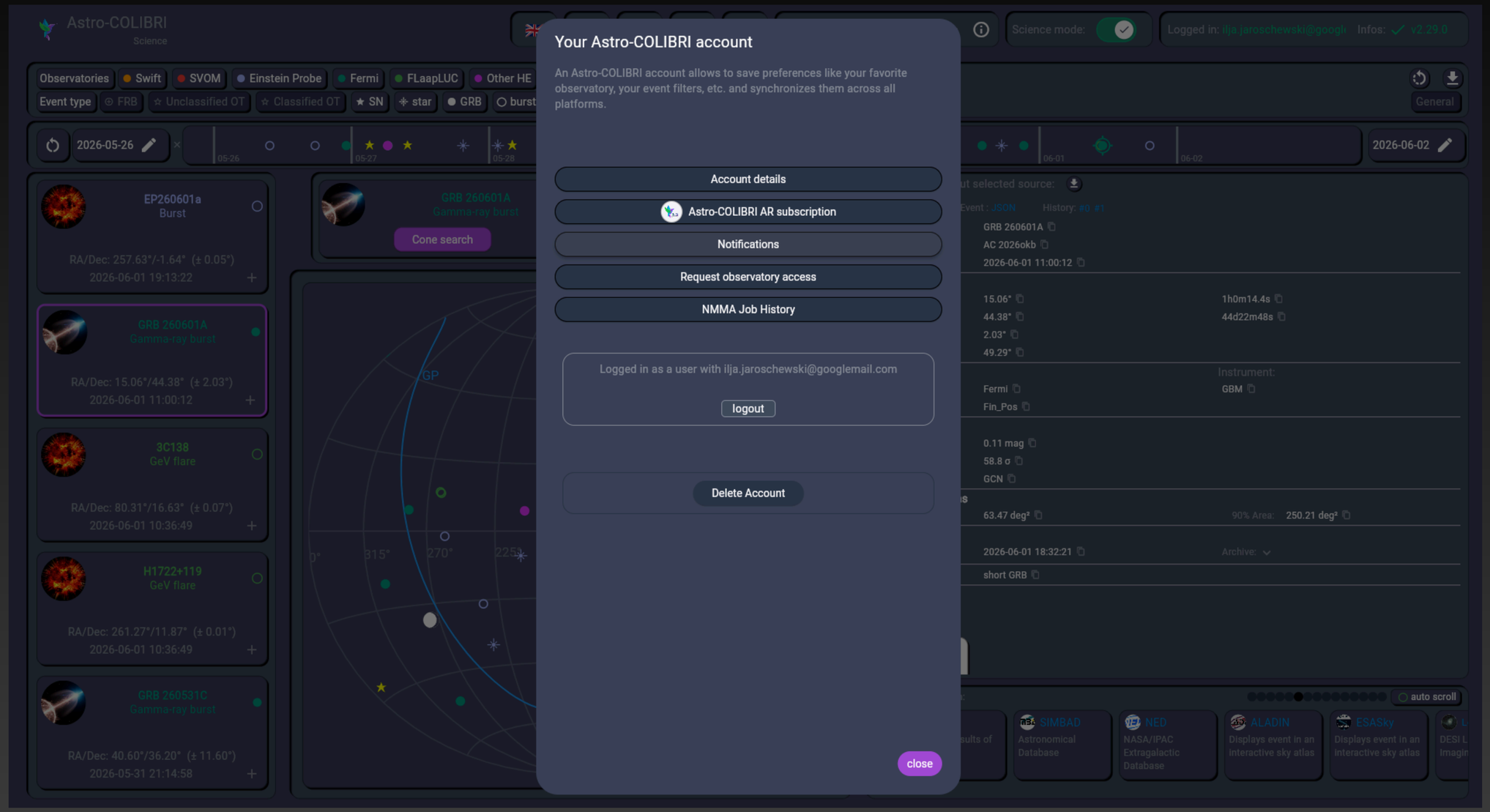
Account infos



User Account

Science mode:

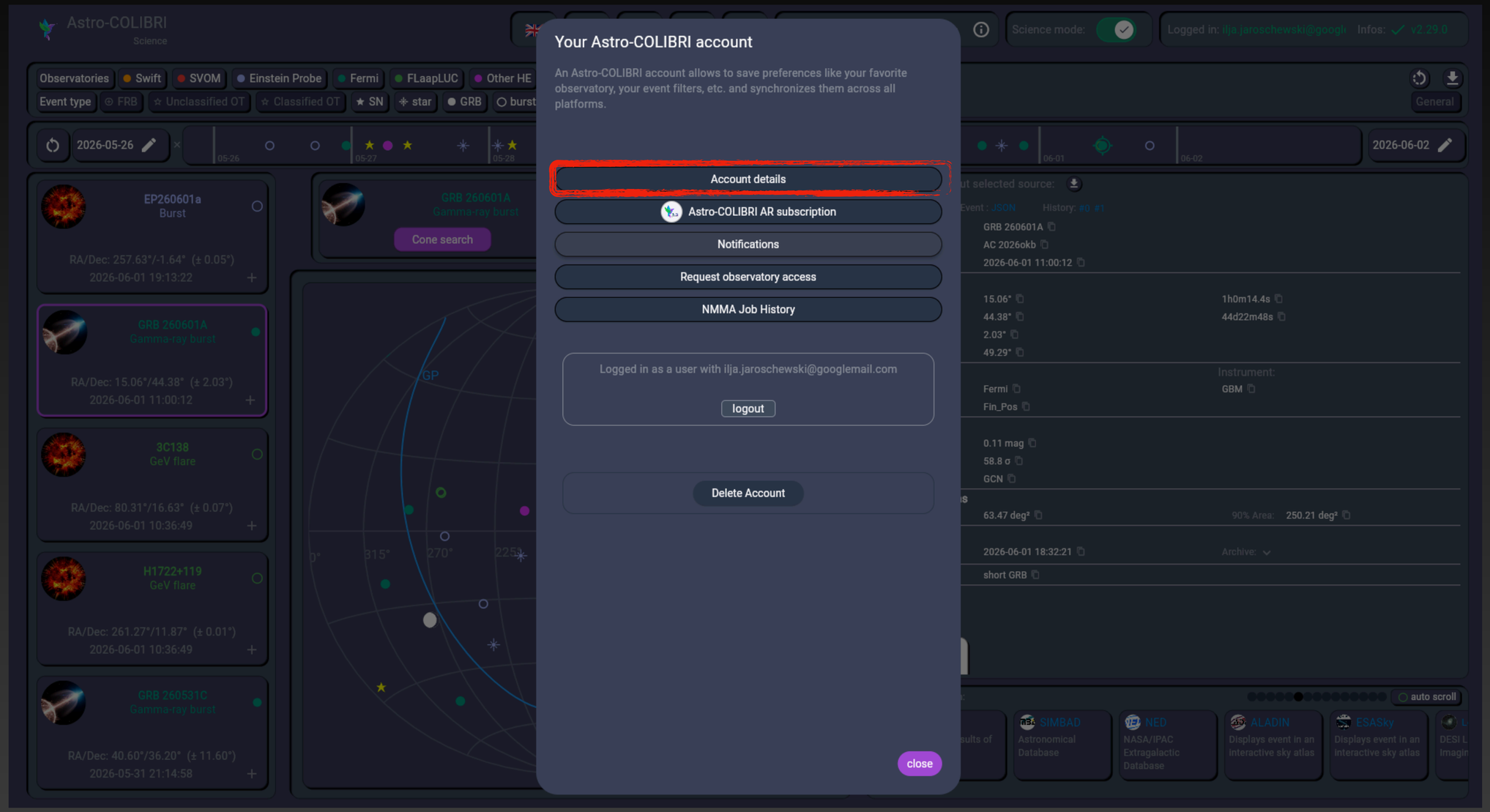
Account infos



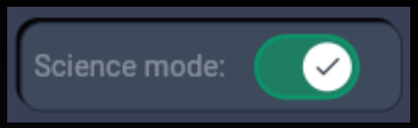
User Account

Science mode:

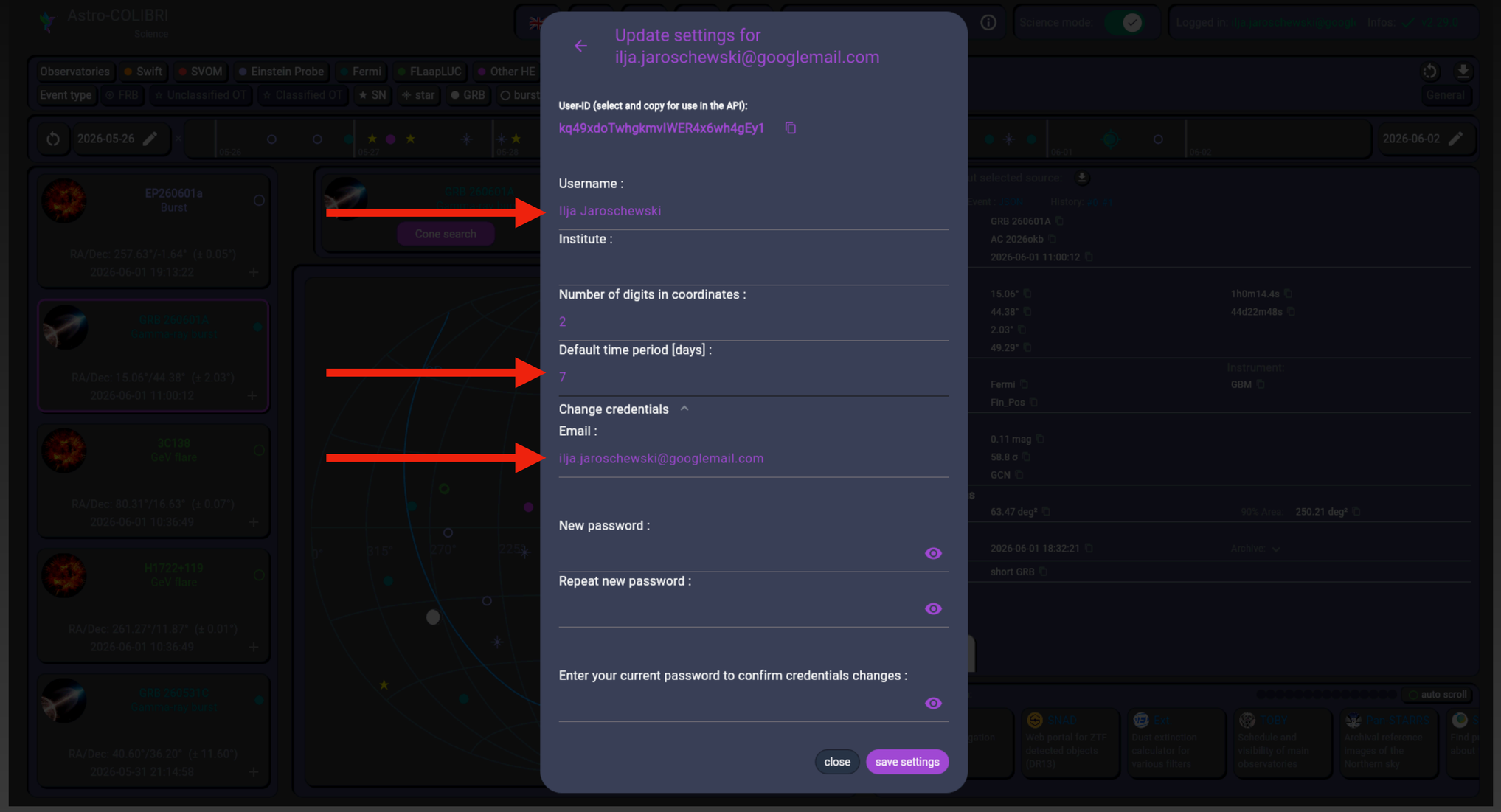
Account details



User Account



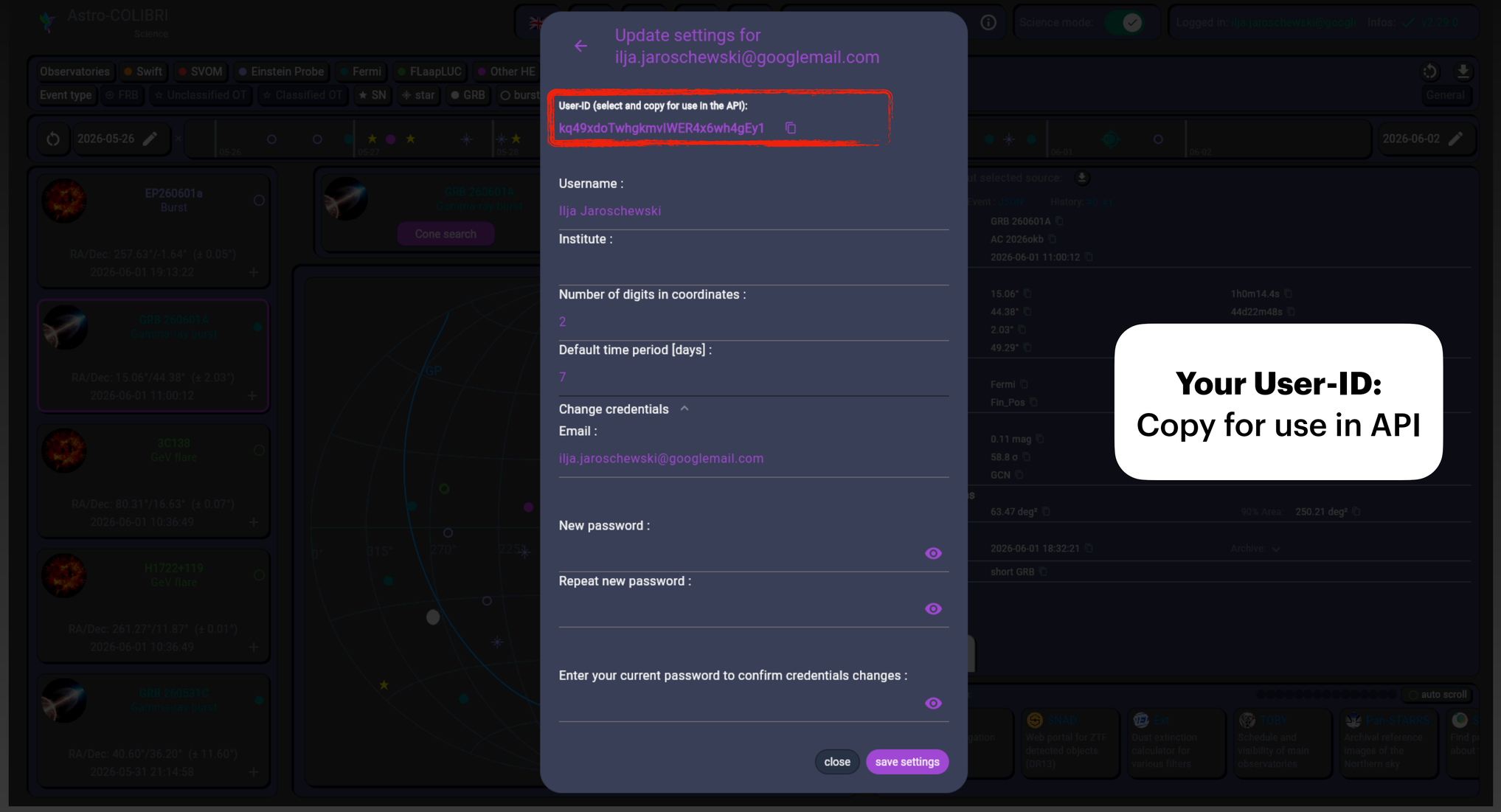
Account details: update default time period, username etc or change credentials



User Account

Science mode:

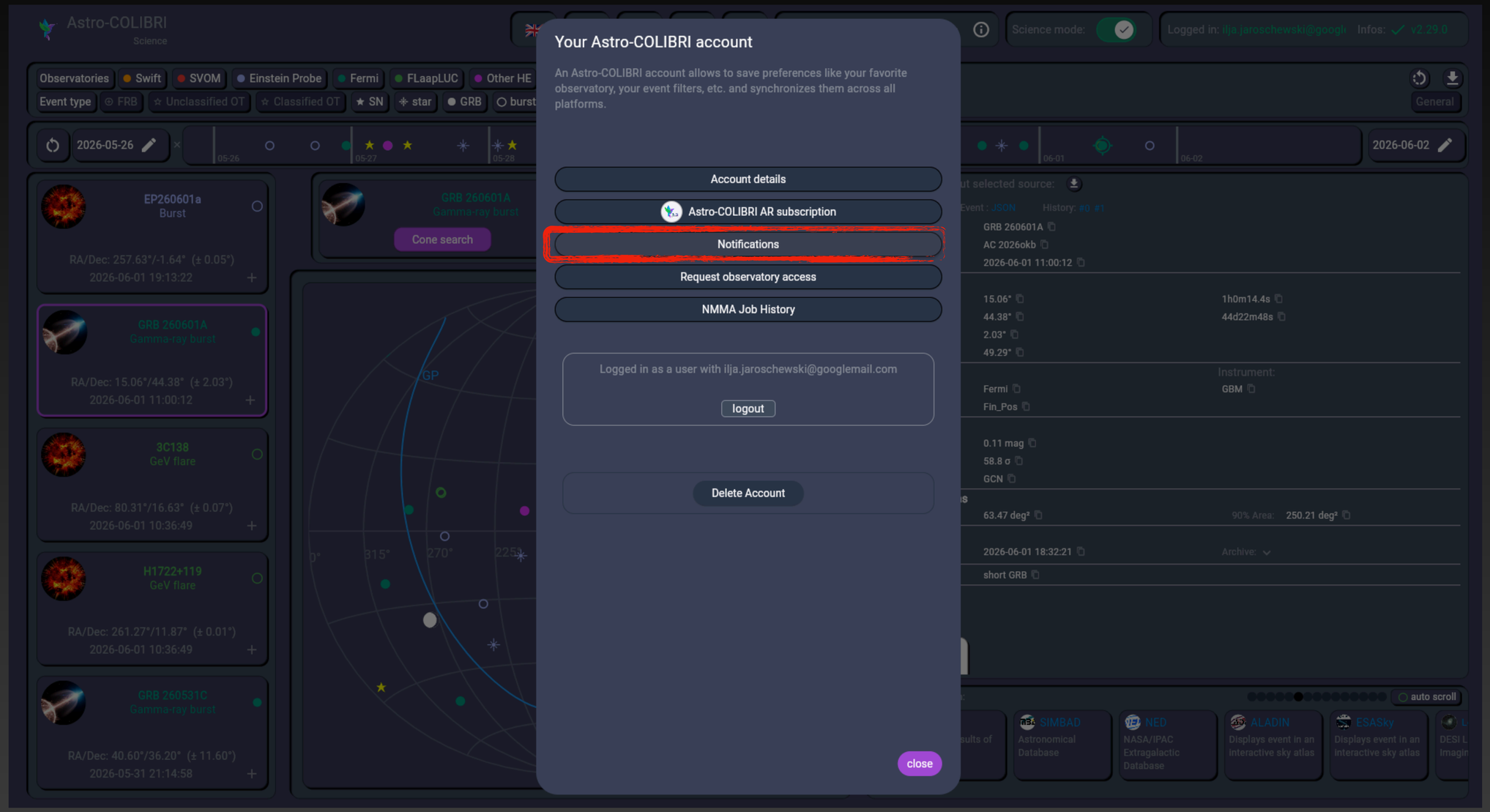
Account details: update default time period, username etc or change credentials



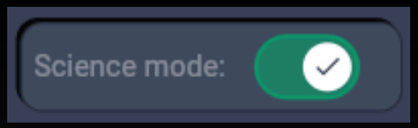
User Account

Science mode:

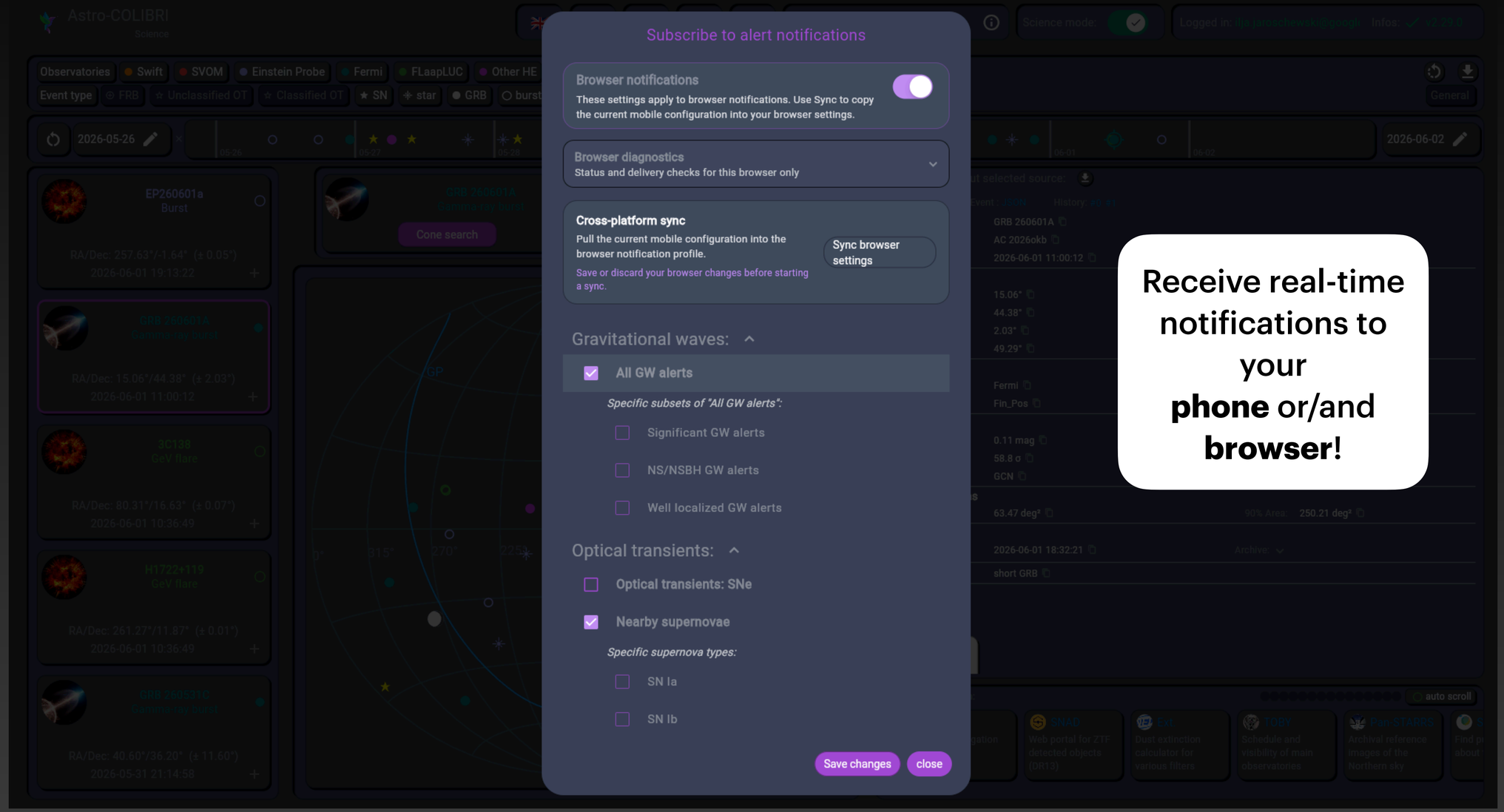
Notifications



User Account



Notifications: subscribe to relevant streams for you



Receive real-time notifications to your **phone** or/and **browser**!

Many more features to discover!

Which features would be helpful for you?

Do you want to learn how to use something in particular?

Many more features to discover!

Which features would be helpful for you?

Do you want to learn how to use something in particular?

Many more features to discover!

We can discuss after the next talk!

Which features would be helpful for you?

Do you want to learn how to use something in particular?

Many more features to discover!

We can discuss after the next talk!

First: Observability Tools with Sofia!