



Astro-COLIBRI

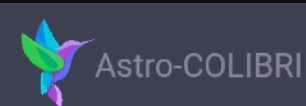
COincidence **LIB**rary for **R**real-time **I**nquiry for multi-messenger astrophysics

Fabian Schüssler (IRFU, CEA Paris-Saclay)





Web interface



Select action

Latest transients

Cone search

Personalize



Status: logged out

Infos: ✔ version 2.0.1

Observatories ● Swift ● Fermi ● HAWC ● IceCube ● AMON ● Integral = LVC ● other

Event types FRB OT SN GRB burst neutrino GW other nuem 4FGL TeVCAT SGR/AXP



2022-09-03



09-03

09-04

09-05

09-06

09-07

09-08

09-09

09-10

09-11

09-12

09-13

09-14

09-15

09-16

09-17

09-18

09-18

2022-09-18



Gamma-ray burst

RA/Dec: 94.33° / -80.59° ($\pm 11.45^\circ$)
2022-09-21 11:21:24



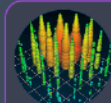
GRB 220921A
Gamma-ray burst

RA/Dec: 66.79° / -40.25° ($\pm 0.42^\circ$)
2022-09-21 11:05:59



FRB 20220918A
Fast radio burst

RA/Dec: 17.74° / -70.78° ($\pm 0.133^\circ$)
2022-09-18 17:33:33

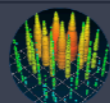


IceCube-220918A
Neutrino

RA/Dec: 75.15° / 3.58° ($\pm 3.569^\circ$)
2022-09-18 12:46:05



SN 2022vfm
Supernovae (optical)

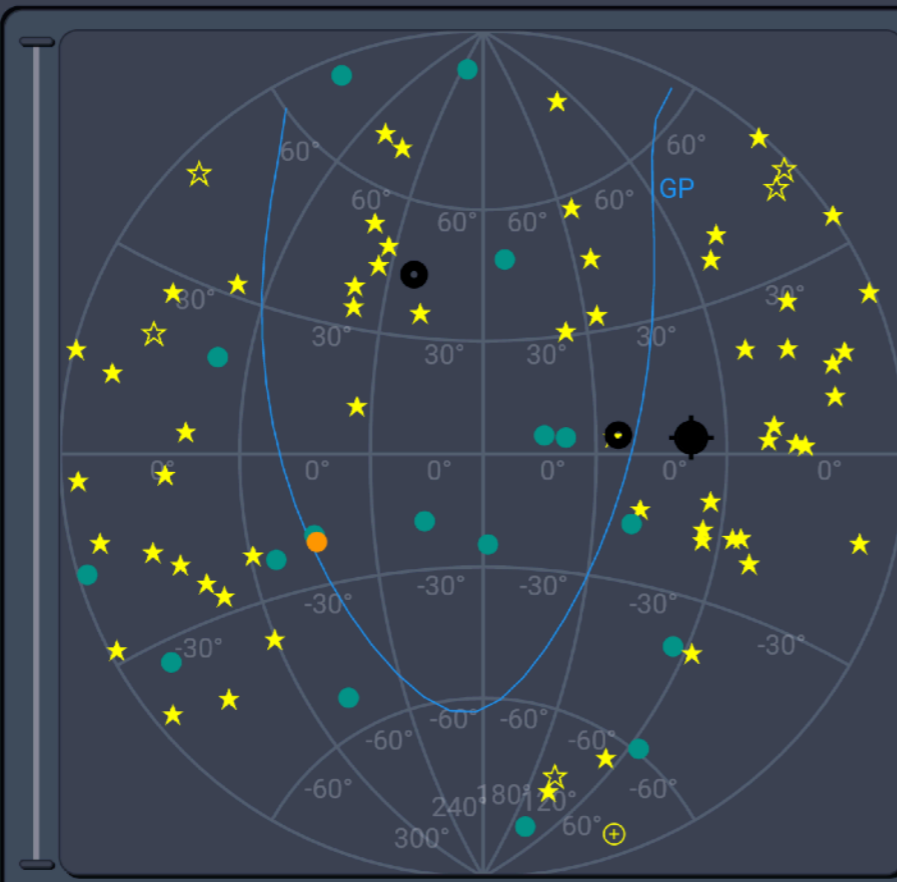


IceCube-220918A
Neutrino

Cone search

Custom cone search

RA / Dec: 75.15° 3.58°
source: IceCube-220918A
radius: < 3.57° >



Detailed info about selected source:

science mode

VoEvent : [Click here](#)
name: IceCube-220918A
Detection time: 2022-09-18 12:46:05
Localisation:
RA [deg] : 75.15 Dec [deg] : 3.58
RA : 5h0m36s Dec : 3d34m48s
error [deg] : 3.57
observatory: IceCube
FAR: 1.71/yr P_astroph: 0.42 E: 168.34 TeV

[Search for ATels!](#)

This is a high-energy neutrino detected by the IceCube observatory in Antarctica. It has an energy of 168 TeV but its origin is not totally clear: events like this happen due to statistical fluctuations roughly every 0.6 years and the probability of the neutrino to be of astrophysical origin (and not terrestrial background noise) is 42 %. IceCube located the origin of the neutrino to a region with a radius of 214 arcmin within the Orion constellation.

Learn more about IceCube: [link](#)

Discuss this event on Twitter: [@AstroColibri](#)

Links for further details

auto scroll

ALADIN
Displays event in an interactive sky atlas

ESASky
Displays event in an interactive sky atlas

Pan-STARRS
Archival reference images of the Northern sky

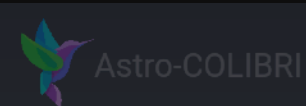
Fink
Broker providing real-time transient classification

SSDC
Spectral energy distribution (SED) of the selected sky location

ASAS
Photometric data



Latest transients



Select action

Latest transients

Cone search

Personalize



Status: logged out

Infos: version 2.0.1

Observatories Swift Fermi HAWC IceCube AMON Integral LVC other

Event types FRB OT SN GRB burst neutrino GW other nuem 4FGL TeVCAT SGR/AXP



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Gamma-ray burst

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GRB 220921A
Gamma-ray burst

RA/Dec: 66.79° / -40.25° ($\pm 0.42^\circ$)
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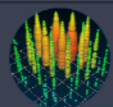
FRB 20220918A
Fast radio burst

RA/Dec: 17.74° / -70.78° ($\pm 0.133^\circ$)
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IceCube-220918A
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Supernovae (optical)



IceCube-220918A
Neutrino

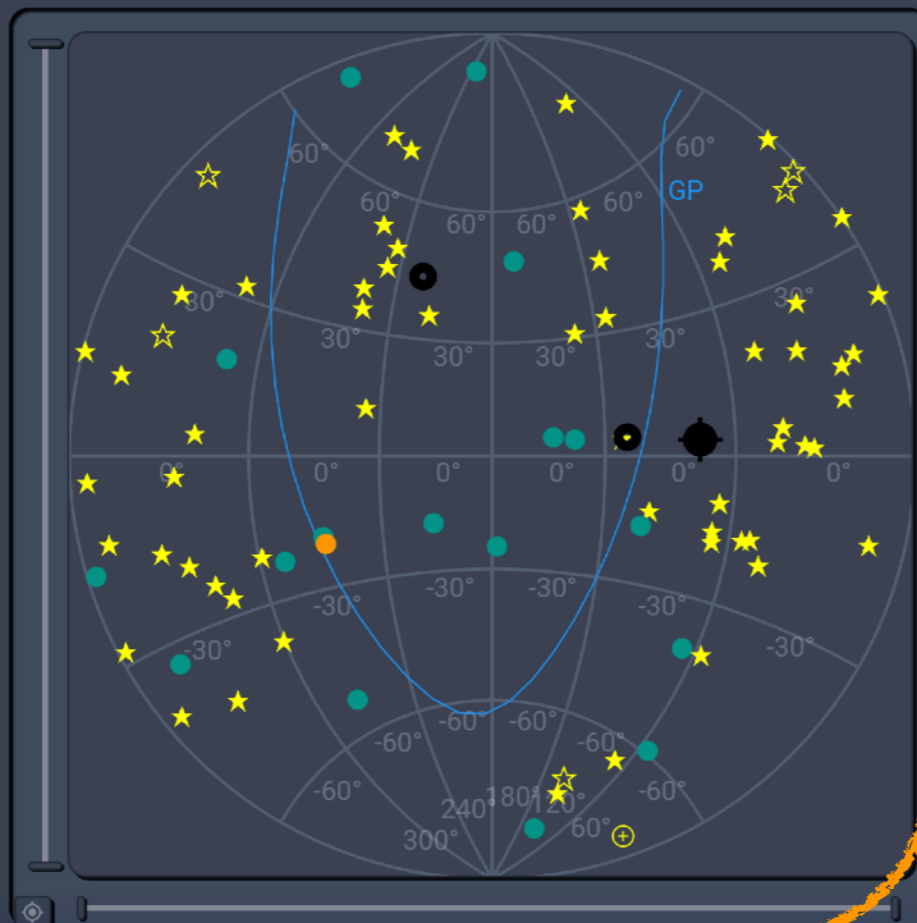
Cone search

Custom cone search

RA / Dec: 75.15° 3.58°

source: IceCube-220918A

radius: < 3.57° >



Detailed info about selected source:

science mode

VoEvent: [Click here](#)

name: IceCube-220918A

Detection time: 2022-09-18 12:46:05

Localisation:

RA [deg]: 75.15 Dec [deg]: 3.58

RA: 5h0m36s Dec: 3d34m48s

error [deg]: 3.57

observatory: IceCube

FAR: 1.71/yr P_astroph: 0.42 E: 168.34 TeV

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Links for further details

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Broker providing real-time transient classification

SSDC
Spectral energy distribution (SED) of the selected sky location

ASAS
Photometric light curves



Filters and legend

Astro-COLIBRI interface showing filters and a detailed view of the IceCube-220918A Neutrino event.

Observatories: Swift, Fermi, HAWC, IceCube, AMON, Integral, LVC, other

Event types: FRB, OT, SN, GRB, burst, neutrino, GW, other, nuem, 4FGL, TeVCAT, SGR/AXP

Event List: 2022-09-03 to 2022-09-18

Event Details:

- Gamma-ray burst:** RA/Dec: 94.33° / -80.59° (± 11.45°), 2022-09-21 11:21:24
- GRB 220921A Gamma-ray burst:** RA/Dec: 66.79° / -40.25° (± 0.42°), 2022-09-21 11:05:59
- FRB 20220918A Fast radio burst:** RA/Dec: 17.74° / -70.78° (± 0.133°), 2022-09-18 17:33:33
- IceCube-220918A Neutrino:** RA/Dec: 75.15° / 3.58° (± 3.569°), 2022-09-18 12:46:05
- SN 2022vfm Supernovae (optical):** Star icon

Custom cone search: RA / Dec: 75.15° 3.58°, source: IceCube-220918A, radius: 3.57°

Detailed info about selected source:

VoEvent: [Click here](#)
name: IceCube-220918A
Detection time: 2022-09-18 12:46:05
Localisation:
RA [deg]: 75.15 Dec [deg]: 3.58
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error [deg]: 3.57
observatory: IceCube
FAR: 1.71/yr P_astroph: 0.42 E: 168.34 TeV
[Search for ATels!](#)

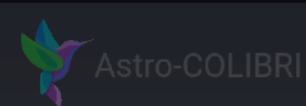
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Links for further details: ALADIN, ESASky, Pan-STARRS, Eink, SSDC, ASAS



Timeline



Select action

Latest transients

Cone search

Personalize



Status: logged out

Infos: ✔ version 2.0.1

Observatories Swift Fermi HAWC IceCube AMON Integral LVC other

Event types FRB OT SN GRB burst neutrino GW other nuem 4FGL TeVCAT SGR/AXP



2022-09-03

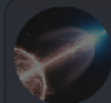


2022-09-18



Gamma-ray burst

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2022-09-21 11:21:24



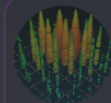
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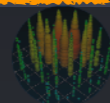


IceCube-220918A
Neutrino

RA/Dec: 75.15° / 3.58° ($\pm 3.569^\circ$)
2022-09-18 12:46:05



SN 2022vfm
Supernovae (optical)

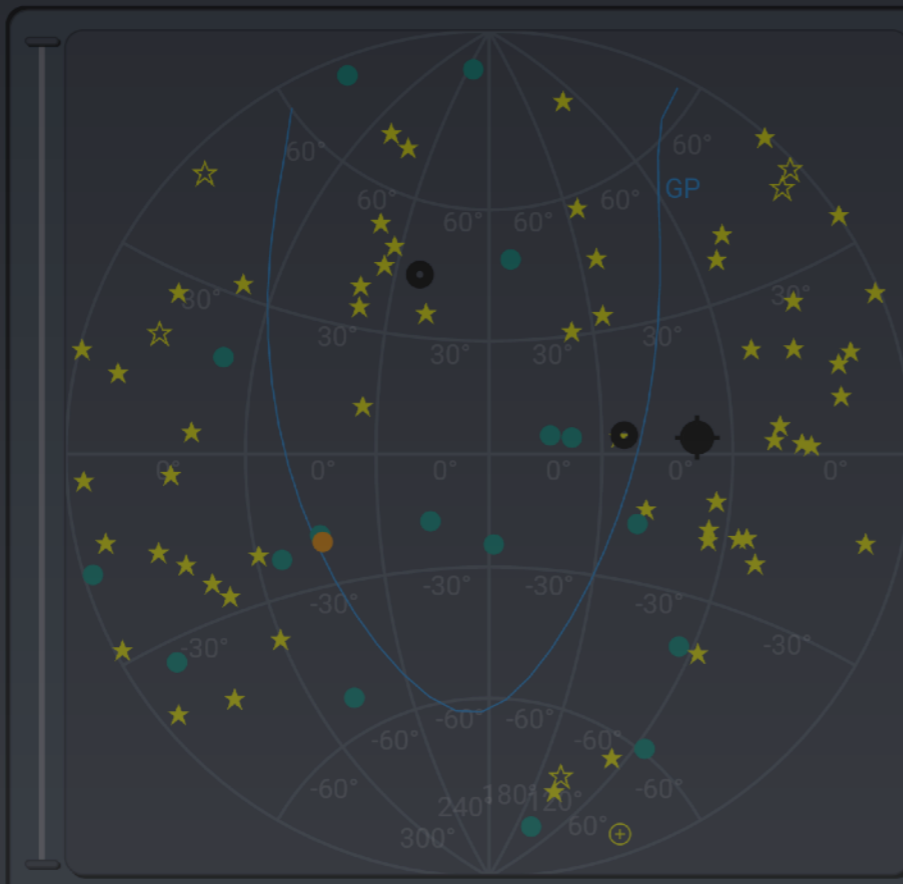


IceCube-220918A
Neutrino

Cone search

Custom cone search

RA / Dec: 75.15° 3.58°
source: IceCube-220918A
radius: < 3.57° >



Detailed info about selected source:

VoEvent: [Click here](#)
name: IceCube-220918A
Detection time: 2022-09-18 12:46:05
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Learn more about IceCube: [link](#)

Discuss this event on Twitter: [@AstroColibri](#)

Links for further details

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Displays event in an interactive sky atlas

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Displays event in an interactive sky atlas

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Archival reference images of the Northern sky

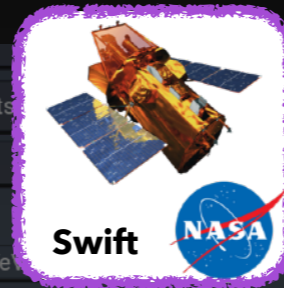
Eink
Broker providing real-time transient classification

SSDC
Spectral energy distribution (SED) of the selected sky location

ASAS
Photometry



External platforms



Links for further details

- ALADIN**
Displays event in an interactive sky atlas
- ESASky**
Displays event in an interactive sky atlas
- Pan-STARRS**
Archival reference images of the Northern sky
- Fink**
Broker providing real-time transient classification
- SSDC**
Spectral energy distribution (SED) of the selected sky location
- Phot light ASA**



Additional information

Astro-COLIBRI interface showing a list of astronomical events on the left, a central sky map, and a detailed information panel on the right.

Event List:

- Gamma-ray burst: RA/Dec: 94.33° / -80.59° (± 11.45°), 2022-09-21 11:21:24
- GRB 220921A Gamma-ray burst: RA/Dec: 66.79° / -40.25° (± 0.42°), 2022-09-21 11:05:59
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- IceCube-220918A Neutrino: RA/Dec: 75.15° / 3.58° (± 3.569°), 2022-09-18 12:46:05
- SN 2022vfm Supernovae (optical)

IceCube-220918A Neutrino Details:

Custom cone search: RA / Dec: 75.15° 3.58°
source: IceCube-220918A
radius: 3.57°

Detailed info about selected source:
VoEvent: [Click here](#)
name: IceCube-220918A
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Localisation:
RA [deg]: 75.15 Dec [deg]: 3.58
RA : 5h0m36s Dec : 3d34m48s
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FAR: 1.71/yr P_astro: 0.42 E: 168.34 TeV
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Discuss this event on Twitter: [@AstroColibri](#)

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ALADIN: Displays event in an interactive sky atlas
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Pan-STARRS: Archival reference images of the Northern sky
Eink: Broker providing real-time transient classification
SSDC: Spectral energy distribution (SED) of the selected sky location
ASAS: Photometric light curves



Observability

Astro-COLIBRI interface showing observatory filters (Swift, Fermi, HAWC, IceCube, AMON, Integral, LVC, other) and event types (FRB, OT, SN, GRB, burst, neutrino, GW, other, nuem, 4FGL, TeVCAT, SGR/AXP).

Timeline view from 2022-09-03 to 2022-09-18.

IceCube-220918A Neutrino details:

- RA/Dec: 75.15° / 3.58°
- source: IceCube-220918A
- radius: 3.57°
- Detection time: 2022-09-18 12:46:05
- Localisation: RA [deg]: 75.15, Dec [deg]: 3.58, RA: 5h0m36s, Dec: 3d34m48s, error [deg]: 3.57
- observatory: IceCube
- FAR: 1.71/yr, P_astro: 0.42, E: 168.34 TeV

Visibility graph for IceCube-220918A at H.E.S.S. Source location: (RA = 75.2°, DEC = 3.6°). The graph shows altitude (deg) vs. hours from UTC midnight (2022-09-22). Legend: Sun altitude, Moon altitude, Sunrise, Sunset, Moonrise, Moonset.

Links for further details: ALADIN, ESASky, Pan-STARRS, Eink, SSCC, Phot lightc ASAS.

science mode

science mode



Observability

Detailed info about selected source:

science mode

VoEvent : [Click here](#)

name: IceCube-220918A

Detection time: 2022-09-18 12:46:05

Localisation:

RA [deg] : 75.15 Dec [deg] : 3.58

RA : 5h0m36s Dec : 3d34m48s

error [deg] : 3.57

observatory: IceCube

FAR: 1.71/yr P_astro: 0.42 E: 168.34 TeV

[Search for ATels!](#)

Some new features

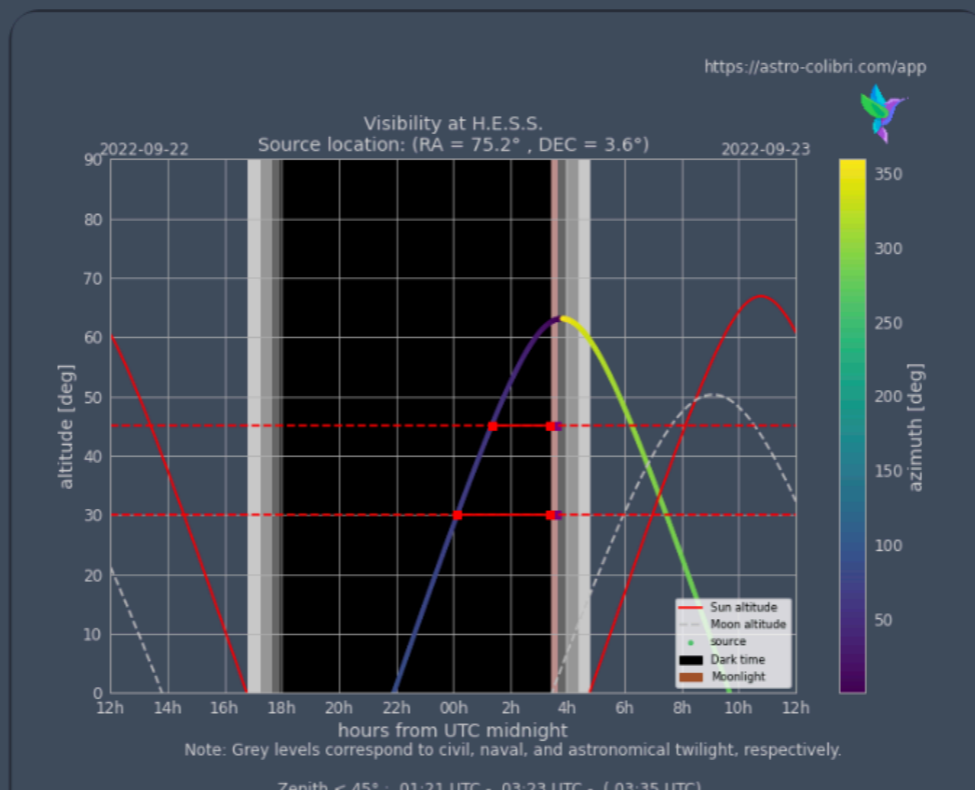
visibility: 2022-09-22

Daily

Monthly

weather: [forecast](#) [seeing](#)

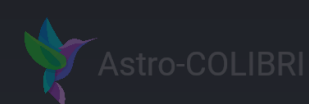
sky view: [HeavensAbove](#)





Observability

Observatory selection

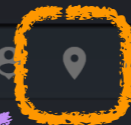


Select action

Latest transients

Cone search

Personalize



Status: logged out

Infos: version 2.0.1

Observatories

Event types

2022-09



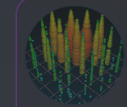
RA/Dec: 94
202



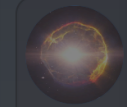
RA/Dec: 66
202



RA/Dec: 17
202



RA/Dec: 7
202



You can change the observer location by choosing one of the following observatories

Radio

ALMA ASKAP ATCA MWA Nançay Yunnan

Optical

Jilin Keck Mount Wilson OHP Palomar SALT San Pedro Mártir VLT Paranal Xinglong

High energy

HAWC **H.E.S.S.** LHAASO MAGIC VERITAS

My observatories :

Paris

Search for observatories using their IAU code or name:

Or by indicating a custom observer position:

The longitude and latitude must be expressed in decimal degrees.

The altitude must be expressed in meters above sea level.

Longitudes are negative toward West. The sign + of the longitude and latitude can be omitted.

16.5 -23.27 1835 H.E.S.S.

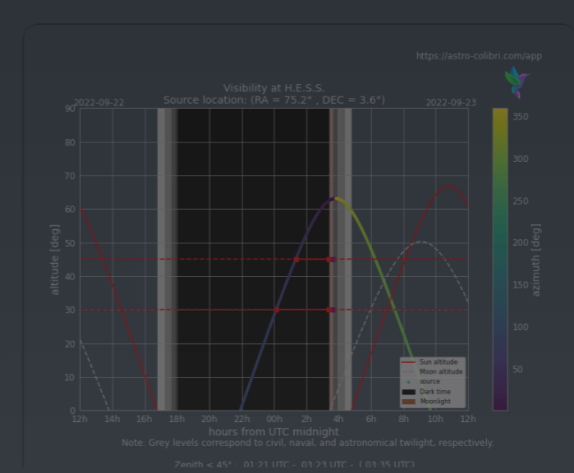
Select coordinates

Save observatory



Selected source:

18 12:46:05
[deg] : 3.58
3d34m48s
p: 0.42 E: 168.34 TeV



auto scroll

ESASky: Displays event in an interactive sky atlas

Pan-STARRS: Archival reference images of the Northern sky

Fink: Broker providing real-time transient classification

SSDC: Spectral energy distribution (SED) of the selected sky location

ASAS: Photometric light curves



Cone searches

Astro-COLIBRI interface showing a search for IceCube-220918A Neutrino. The interface includes a navigation bar with "Select action", "Latest transients", and "Cone search" buttons. A sidebar on the left lists various astronomical events. The main area displays a custom cone search for IceCube-220918A Neutrino, showing its RA/Dec coordinates (75.15°, 3.58°) and a radius of 3.57°. A central sky map shows the search area with a grid and various stars. A detailed info panel on the right provides event details, including detection time, localisation, and observatory. A visibility graph shows the altitude of the source over time. The interface also includes a "Links for further details" section with links to ALADIN, ESASky, Pan-STARRS, Fink, SSDC, and ASAS.

Observatories: Swift, Fermi, HAWC, IceCube, AMON, Integral, LVC, other

Event types: FRB, OT, SN, GRB, burst, neutrino, GW, other, nuem, 4FGL, TeVCAT, SGR/AXP

2022-09-03 2022-09-18

IceCube-220918A Neutrino

Custom cone search

RA / Dec: 75.15° 3.58°

source: IceCube-220918A

radius: 3.57°

Detailed info about selected source:

VoEvent: [Click here](#)

name: IceCube-220918A

Detection time: 2022-09-18 12:46:05

Localisation:

RA [deg]: 75.15 Dec [deg]: 3.58

RA : 5h0m36s Dec : 3d34m48s

error [deg]: 3.57

observatory: IceCube

FAR: 1.71/yr P_astro: 0.42 E: 168.34 TeV

Search for ATels!

visibility: 2022-09-22

Daily

Monthly

weather: [forecast](#) [seeing](#)

sky view: [HeavensAbove](#)

Links for further details

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Pan-STARRS: Archival reference images of the Northern sky

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ASAS: Photometric ASAS

<https://astro-colibri.com>



Cone searches

Astro-COLIBRI

Select action

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Status: **logged out**

Infos: version 2.0.1

Observatories Swift Fermi HAWC IceCube AMON Integral LVC other

Event types FRB OT SN GRB burst neutrino GW other nuem 4FGL TeVCAT SGR/AXP

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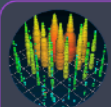
09-15

09-16

09-17

09-18

2022-09-18



IceCube-220918A
Neutrino

RA/Dec: 75.15° / 3.58° (± 3.569°)
2022-09-18 12:46:05



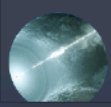
MG1 J050533+0415
4FGL J0505.6+0415
RA/Dec: 76.40° / 4.27°
(sep: 1.43°)



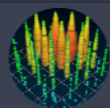
NVSS J050650+032401
4FGL J0506.9+0323
RA/Dec: 76.73° / 3.39°
(sep: 1.59°)



PKS 0502+049
4FGL J0505.3+0459
RA/Dec: 76.34° / 5.00°
(sep: 1.85°)



PKS 0459+060
4FGL J0502.4+0609
RA/Dec: 75.62° / 6.16°
(sep: 2.69°)

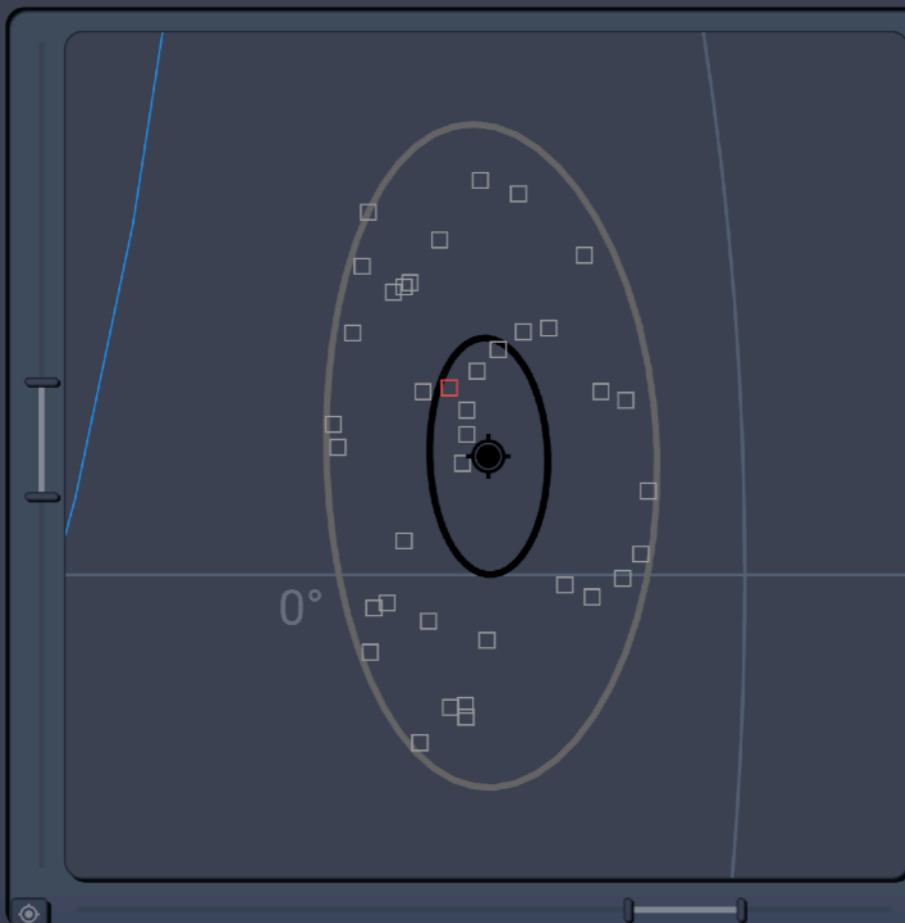


IceCube-220918A
Neutrino

Latest transients

Custom cone search

RA / Dec: 75.15° 3.58°
source: IceCube-220918A
radius: < 3.57° >



Detailed info about selected source:

science mode

VoEvent: [Click here](#)
name: IceCube-220918A
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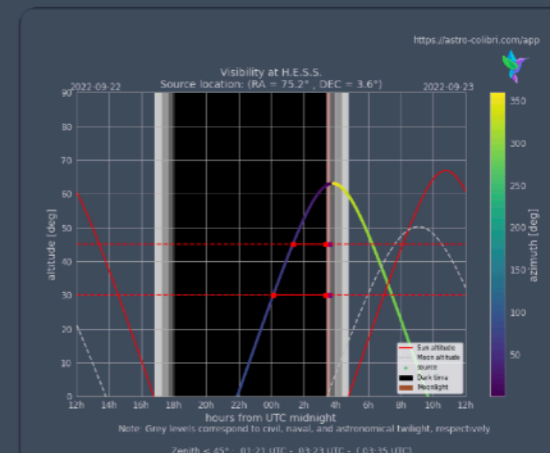
visibility: 2022-09-22

Daily

Monthly

weather: [forecast](#) [seeing](#)

sky view: [HeavensAbove](#)



Links for further details

auto scroll



ALADIN

Displays event in an
interactive sky atlas



ESASky

Displays event in an
interactive sky atlas



Pan-STARRS

Archival reference
images of the
Northern sky



Fink

Broker providing real-
time transient
classification



SSDC

Spectral energy
distribution (SED)
of the selected sky
location



ASAS

Photo
light
ASAS

<https://astro-colibri.com>



Cone searches

Astro-COLIBRI interface showing a cone search for source TXS 0506+056. The interface includes a top navigation bar with buttons for 'Select action', 'Latest transients', 'Cone search', 'Personalize', and 'Status: logged out'. Below this is a filter bar for 'Observatories' (Swift, Fermi, HAWC, IceCube, AMON, Integral, LVC, other) and 'Event types' (FRB, OT, SN, GRB, burst, neutrino, GW, other, nuem, 4FGL, TeVCAT, SGR/AXP). A date range selector shows '2022-09-03' to '2022-09-18'. The main content area is divided into several sections: a left sidebar with a list of sources (IceCube-220918A Neutrino, MG1 J050533+0415, NVSS J050650+032401, PKS 0502+049, PKS 0459+060), a central 'Custom cone search' panel for TXS 0506+056 with RA/Dec: 77.36° 5.7°, source: TXS 0506+056, and radius: 1°, and a large sky map showing the search cone and various sources. To the right of the map is a 'Detailed info about selected source' panel with fields for name, localisation (RA: 5h9m26.16s, Dec: 5d42m3.6s), redshift (0.336), and association (4FGL J0509.4+0542). Below this is a 'visibility' section with 'Daily' and 'Monthly' buttons, weather forecast, and sky view links. A 'Visibility at H.E.S.S.' plot shows altitude and azimuth over time. At the bottom, there are 'Links for further details' for SIMBAD, NED, ALADIN, ESASky, Pan-STARRS, and Broke time class.



Cone searches

Custom cone search

RA / Dec: **77.36°** **5.7°**

source: **TXS 0506+056**

radius: < < **1°** > >

deg and HMS (pointing to RA/Dec)

Launch search (pointing to search icon)

auto-completion (pointing to source field)

source query (pointing to info icon)

Detailed info about selected source:

name: TXS 0506+056
name 3FGL: 3FGL J0509.4+0541
Localisation:
RA [deg]: 77.36 Dec [deg]: 5.70
RA : 5h9m26.16s Dec : 5d42m3.6s
redshift: 0.336
assoc: 4FGL J0509.4+0542

16 ATels: #10791 #10794 #10799 #10830 #10838 #10840 #10844 #10845 #10861 #10890 #11419 #11430 #11489 #12260 #12261

Observatories: Swift, Fermi, HAWC, IceCube, AMON, Integral, LVC, other

Event types: FRB, OT, SN, GRB, burst, neutrino, GW, other, nuem, 4FGL, TeVCAT, SGR/AXP

2022-09-03 to 2022-09-18

IceCube-220918A Neutrino
RA/Dec: 75.15° / 3.58° (± 3.569°)
2022-09-18 12:46:05

MG1 J050533+0415
4FGL J0505.6+0415
RA/Dec: 76.40° / 4.27°
(sep: 1.43°)

NVSS J050650+032401
4FGL J0506.9+0323
RA/Dec: 76.73° / 3.39°
(sep: 1.59°)

PKS 0502+049
4FGL J0505.3+0459
RA/Dec: 76.34° / 5.00°
(sep: 1.85°)

PKS 0459+060
4FGL J0502.4+0609
RA/Dec: 75.62° / 6.16°
(sep: 2.69°)

SIMBAD, NED, ALADIN, ESASky, Pan-STARRS



User accounts

The screenshot shows the Astro-COLIBRI web interface. At the top, there is a navigation bar with buttons for 'Select action', 'Latest transients', 'Cone search', and 'Personalize'. The 'Personalize' button is highlighted with an orange circle. To the right of the 'Personalize' button are icons for a user profile, a location pin, and an information icon. Further right, the status is 'logged out' and the version is 'version 2.0.1'. Below the navigation bar, there are filters for 'Observatories' (Swift, Fermi, HAWC, IceCube, AMON, Integral, LVC, other) and 'Event types' (FRB, OT, SN, GRB, burst, neutrino, GW, other, nuem, 4FGL, TeVCAT, SGR/AXP). The main content area shows a list of transient events with details like RA/Dec and time. A semi-transparent grey box is overlaid on the interface, containing text and a bulleted list.

Not necessary!

But some advantages:



- Settings synchronized across devices
 - Observatory selection (incl. manual observatories)
 - Event filters
- Allows access to private + admin information



Documentation

Astro-COLIBRI

Select action Latest transients Cone search Personalize    Status: logged out Infos:  version 2.0.1

Observatories  Swift  Fermi  HAWC  IceCube  AMON  Integral  LVC  other

Event types

2022-09-08

ASTRO-COLIBRI  HOME APP API DOC TEAM DOCUMENTATION YOUTUBE MERCHANDISE GAMMA-CATCHER

Multi Messenger Astrophysics

The COincidence LIBrary for Real-time INQUIry for multi-messenger astrophysics.

GO TO APP

RA/Dec: 94.33 / 3.58° (+3.569°)
2022-09-18 12:46:05

RA/Dec: 66.71 / 3.58° (+3.569°)
2022-09-18 12:46:05

RA/Dec: 17.74 / 3.58° (+3.569°)
2022-09-18 12:46:05

RA/Dec: 75.15° / 3.58° (+3.569°)
2022-09-18 12:46:05

SN 2022vfm
Supernovae (optical) ★

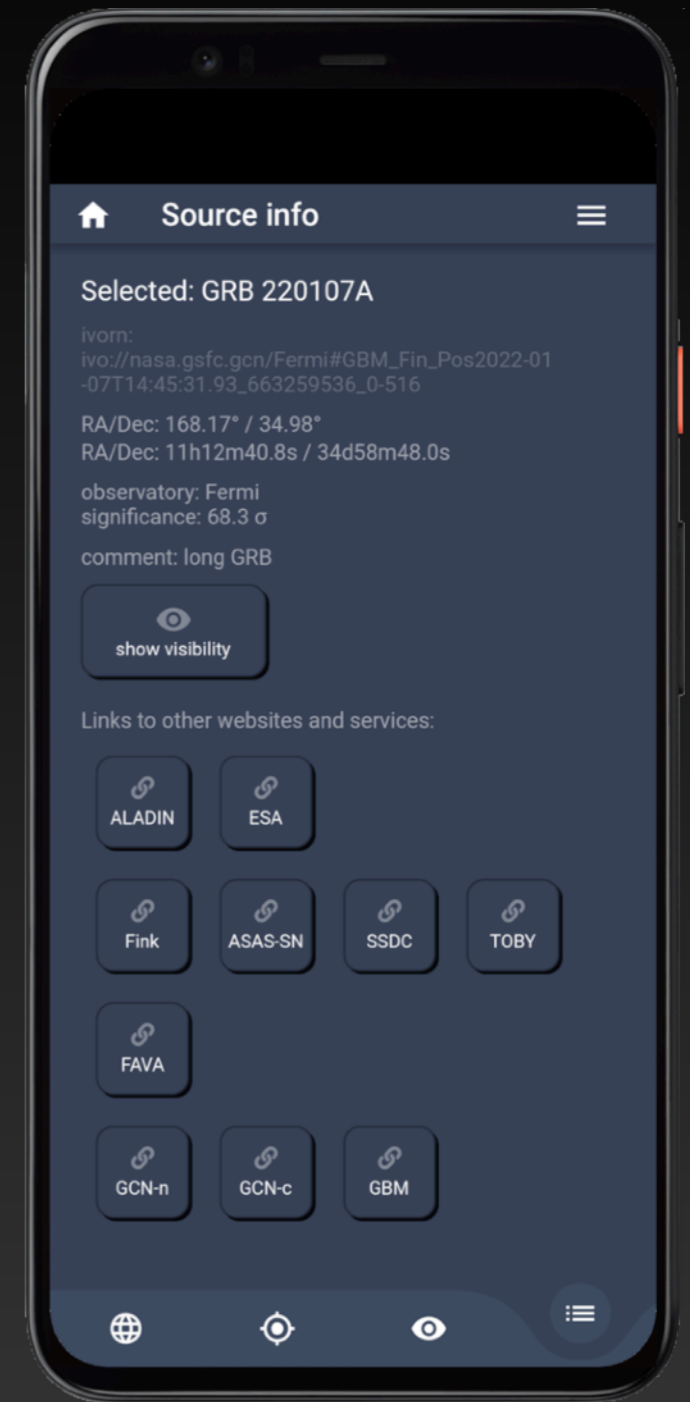
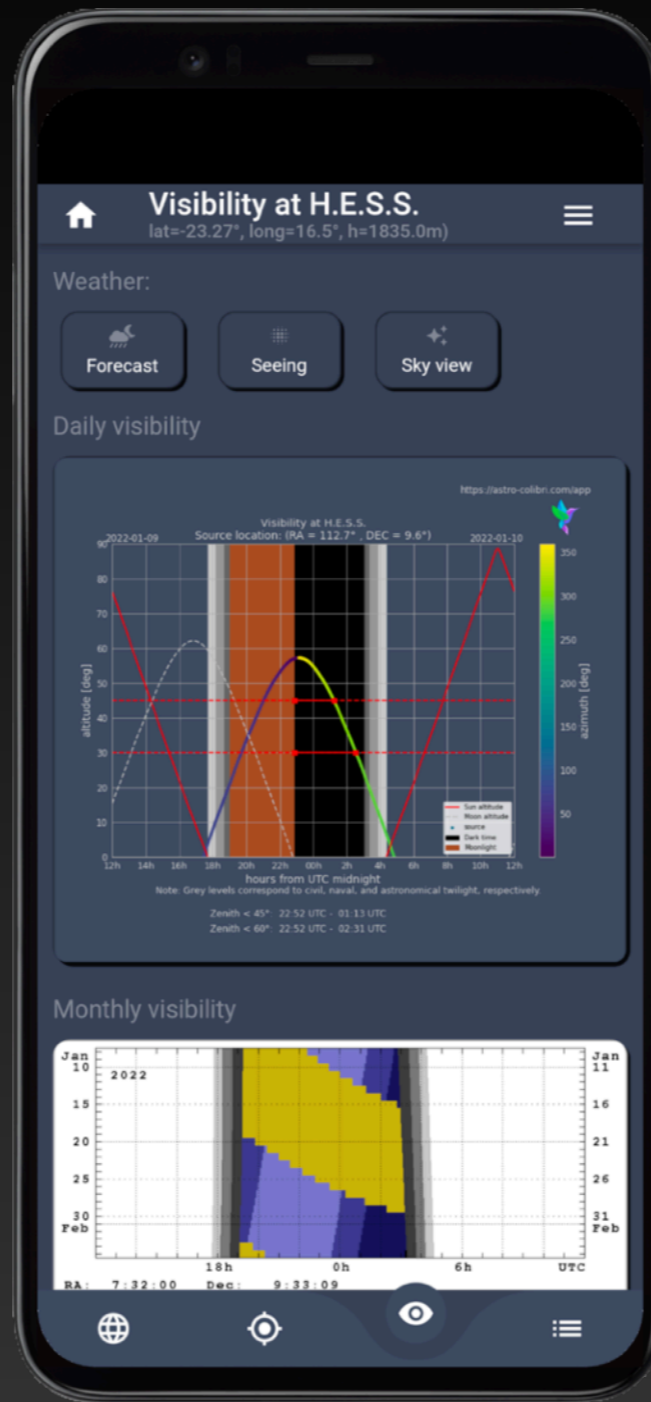
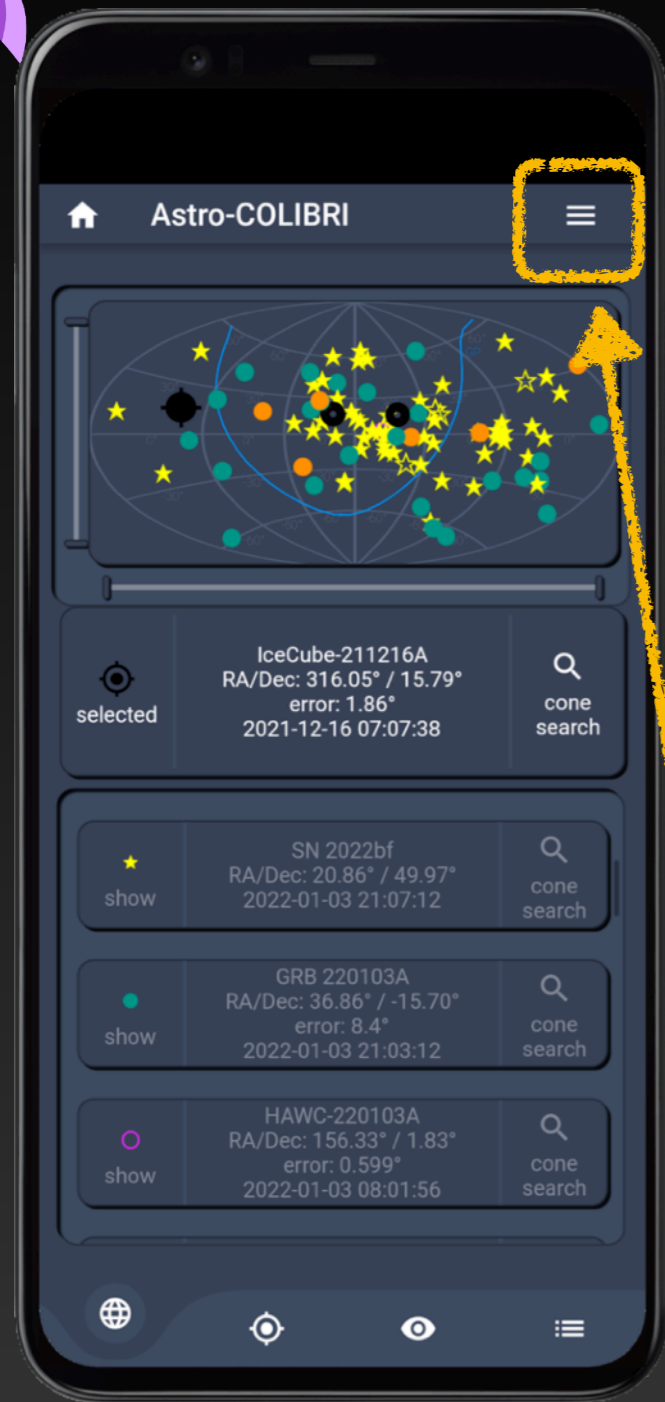
Links for further details

-  ALADIN
Displays event in an interactive sky atlas
-  ESASky
Displays event in an interactive sky atlas
-  Pan-STARRS
Archival reference images of the Northern sky
-  Eink
Broker providing real-time transient classification
-  SSCD
Spectral energy distribution (SED) of the selected sky location
-  ASAS
Photometric light curves

<https://astro-colibri.com>

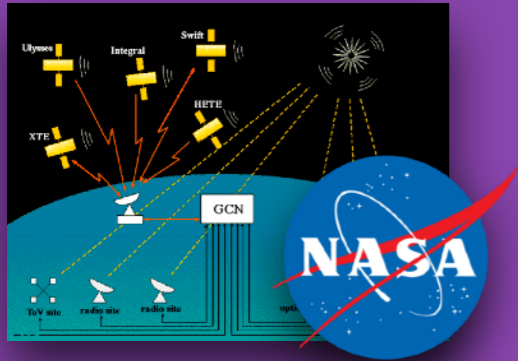


Android + iOS



Realtime notifications

Summary



TRANSIENT NAME SERVER



...



...



Summary + next steps

- First public version released in August 2021
- >2000 downloads from the app stores
- ~30 daily users on average
- Short term goals:
 - Last missing feature in the mobile app: manual cone searches
 - Increase performance of API cloud computing
 - ...
- **Looking forward to your ideas!**
 - Sciathon and/or otherwise



Astro-COLIBRI

Contact: astro.colibri@gmail.com

- Web interface: <https://astro-colibri.com>
- Documentation: <https://astro-colibri.science>

Android Play Store



Apple iOS App Store



Introductions/tutorials sur YouTube



Twitter: @AstroColibri

