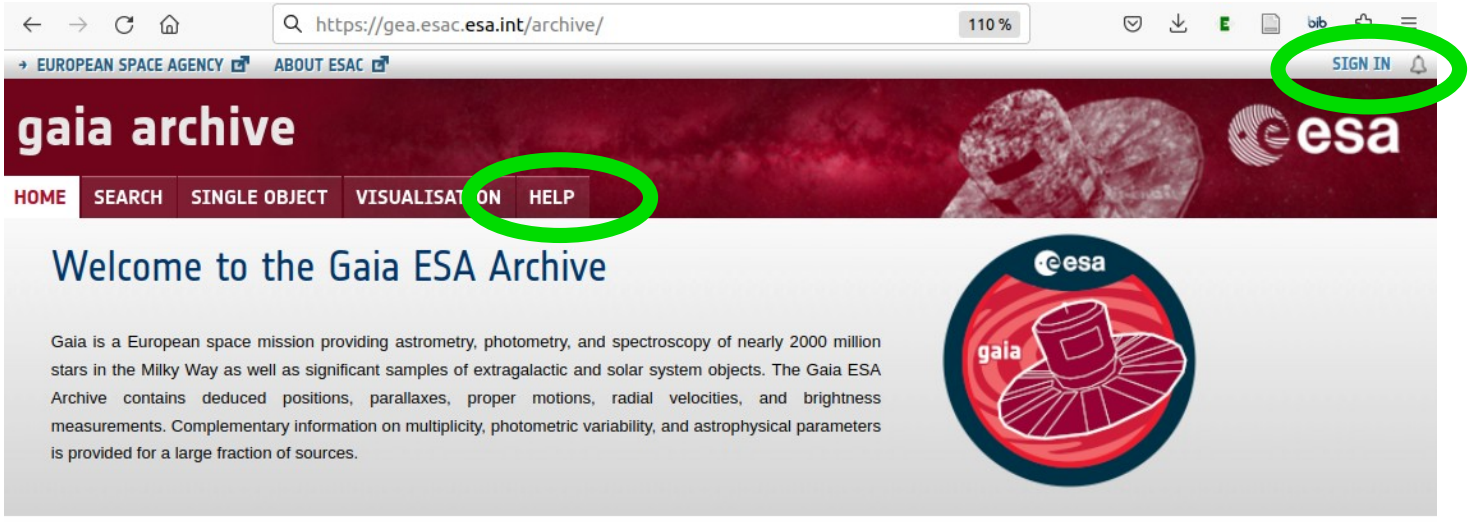
TP – Gaia Archive

- GUI interface
- Python (jupyter notebook)

GACS https://gea.esac.esa.int/archive/



Top Features

Gaia Mission

News, Gaia alerts, information, and resources on the Gaia mission for the scientific community.

Download

Direct bulk download of Gaia data in ECSV format.

Software Tools

Software tools for resampling of spectra, calibration of data, etc.

Gaia DR3

Direct access to Gaia DR3 papers, known issues, tools, auxiliary data, etc.

Auxiliary Data

Small data sets related to calibration, photometric pass bands, exoplanets, asteroids, etc.

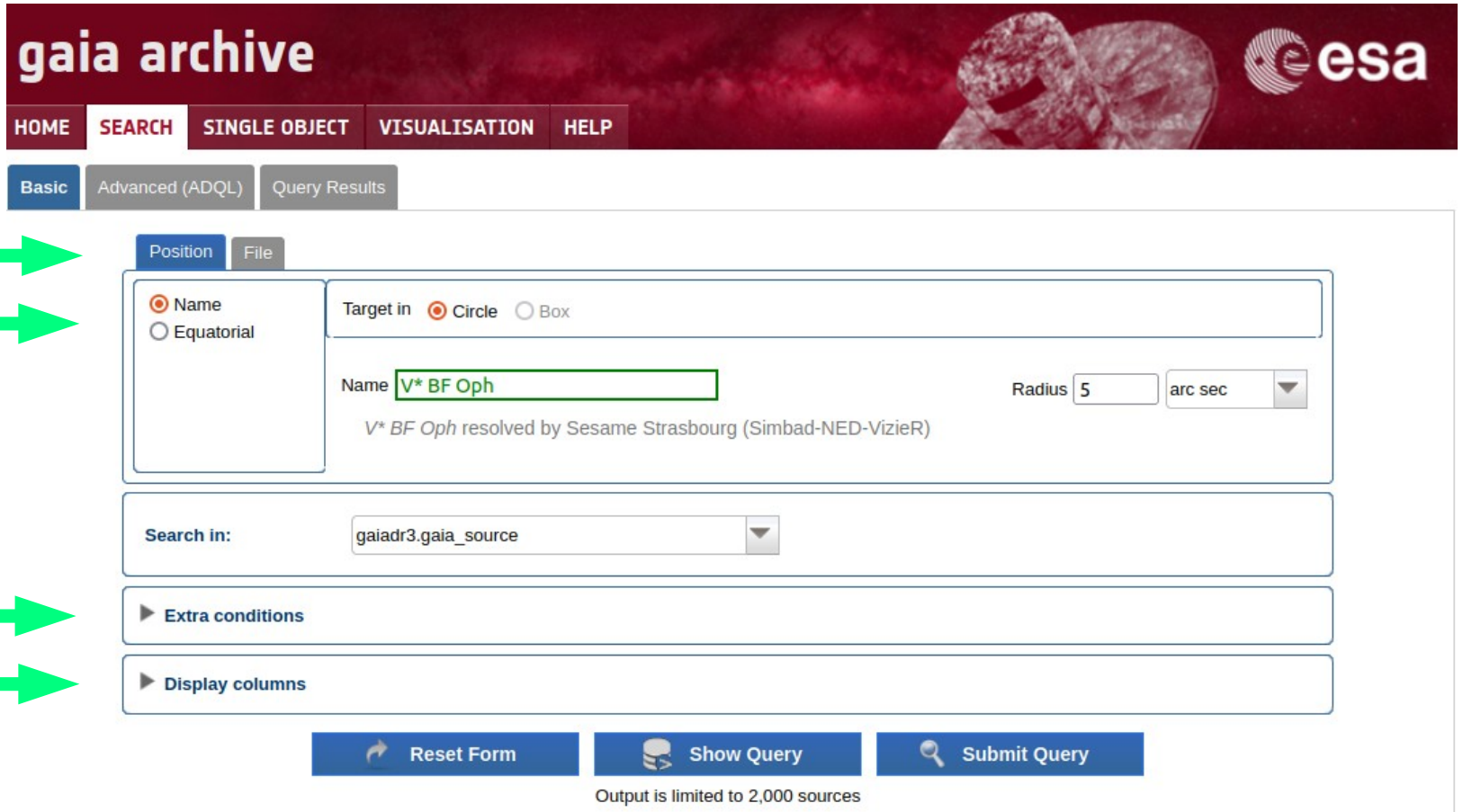
Citation

How to cite and acknowledge the use of Gaia data and where to find DOIs.

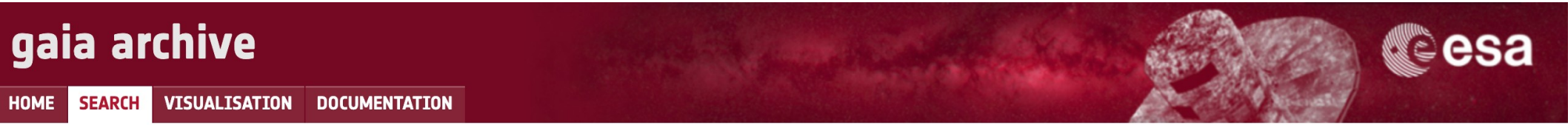
Partners

Partner data centres also serving Gaia data.

Basic Search

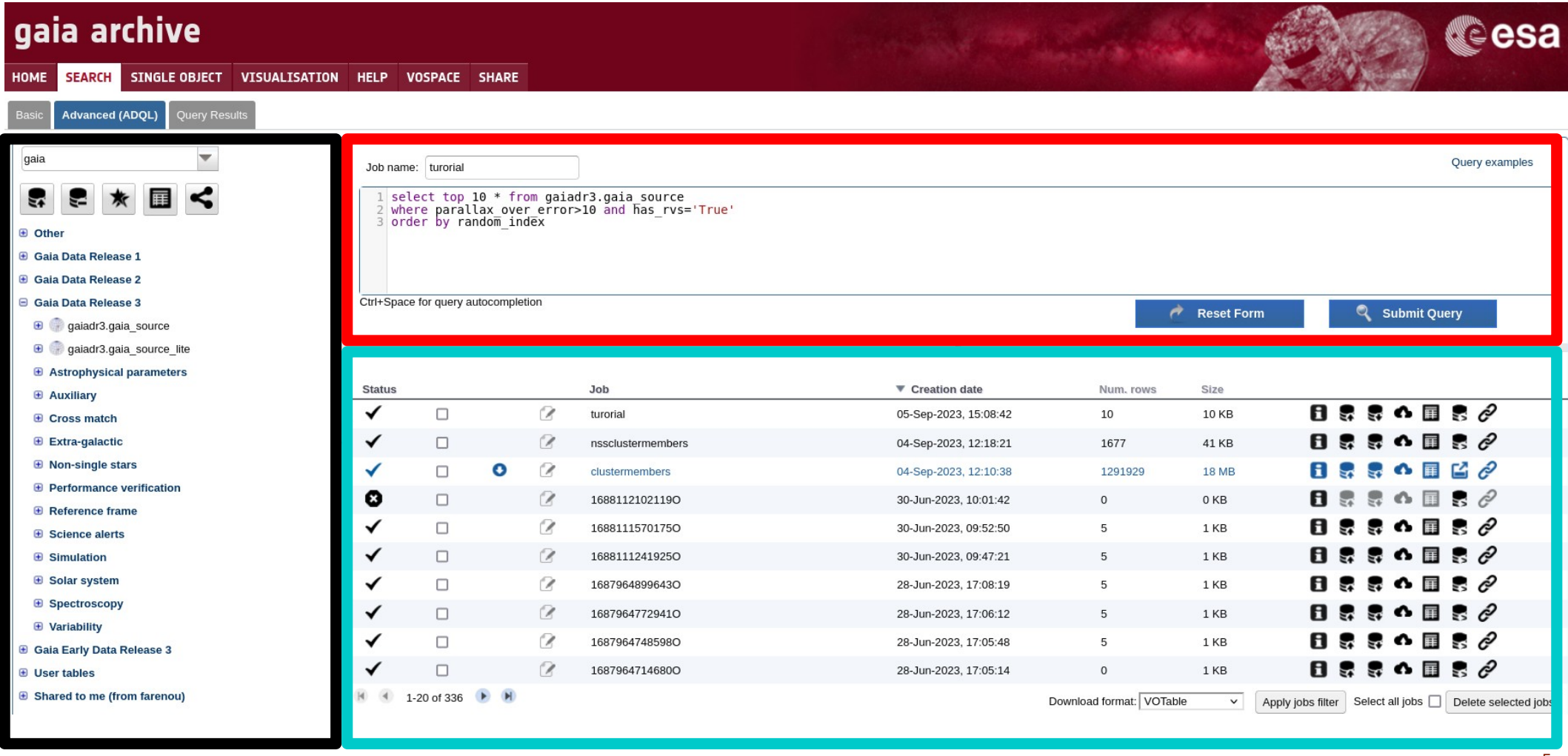


Query results

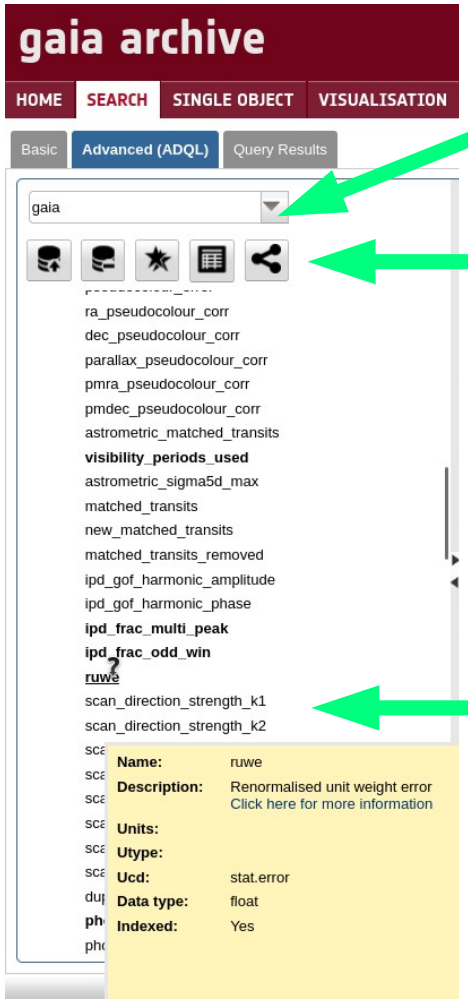


source_id	ra deg	dec deg	parallax mas	phot_g_mean_mag mag	target_id	target_ra deg	target_dec deg	tar
3403818172572314624	83.63305926163925	22.014497367986387	0.5110426215408798	16.52713	crab	83.63308333333333	22.014499999999998	0.(
1070470609404512512	148.88822286209017	69.06529482014444	0.14951645680106435	15.130657	m81	148.88822108929168	69.06529470194445	0.(
4099865451647900032	280.1234395279787	-16.43018715902093	0.1329166497741847	16.48792	280.123456d-16.43d	280.123456	-16.43	0.(
4099865455957533824	280.12330903899357	-16.429706163598446	0.07390058276377748	18.363106	280.123456d-16.43d	280.123456	-16.43	0.(
4099865456015766912	280.1235040880978	-16.42990460665608		18.89173	280.123456d-16.43d	280.123456	-16.43	0.(

Advanced (ADQL)



ADQL : tables tree

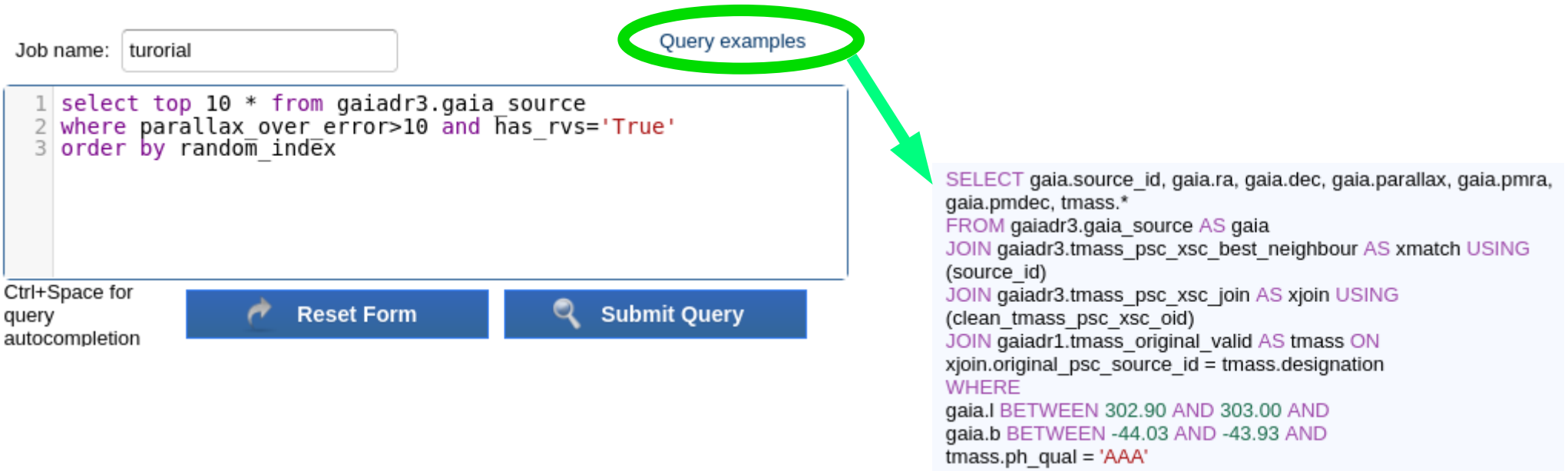


Select external TAP services (e.g. VizieR table)

Upload a user table
Remove a user table
Positional cross-match between two tables
Edit table properties (e.g. ra/dec columns)
Share a table

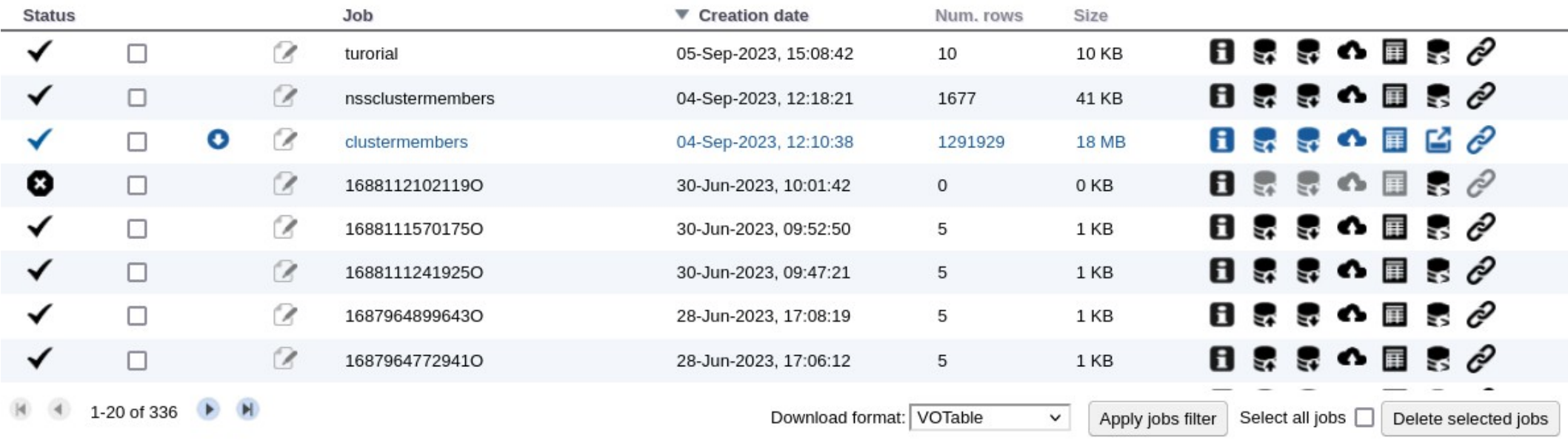
See the full content of the tables
links to the on-line documentation

ADQL: query editor



https://www.cosmos.esa.int/web/gaia-users/archive/writing-queries

ADQL: Job list



Status	Job	Creation date	Num. rows	Size
✓	turorial	05-Sep-2023, 15:08:42	10	10 KB
✓	nssclustermembers	04-Sep-2023, 12:18:21	1677	41 KB
✓	clustermembers	04-Sep-2023, 12:10:38	1291929	18 MB
✗	16881121021190	30-Jun-2023, 10:01:42	0	0 KB
✓	1688111570175O	30-Jun-2023, 09:52:50	5	1 KB
✓	1688111241925O	30-Jun-2023, 09:47:21	5	1 KB
✓	16879648996430	28-Jun-2023, 17:08:19	5	1 KB
✓	1687964772941O	28-Jun-2023, 17:06:12	5	1 KB

1-20 of 336

Download format: VOTable

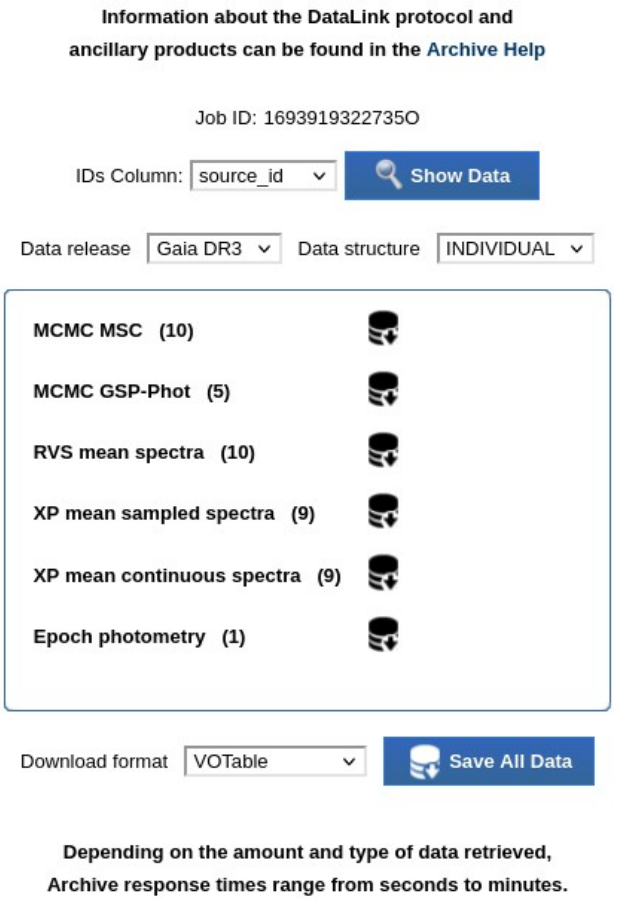
Apply jobs filter

Select all jobs

Delete selected jobs

Datalink

5000 sources max



https://www.cosmos.esa.int/web/gaia-users/archive/datalink-products

Single Object

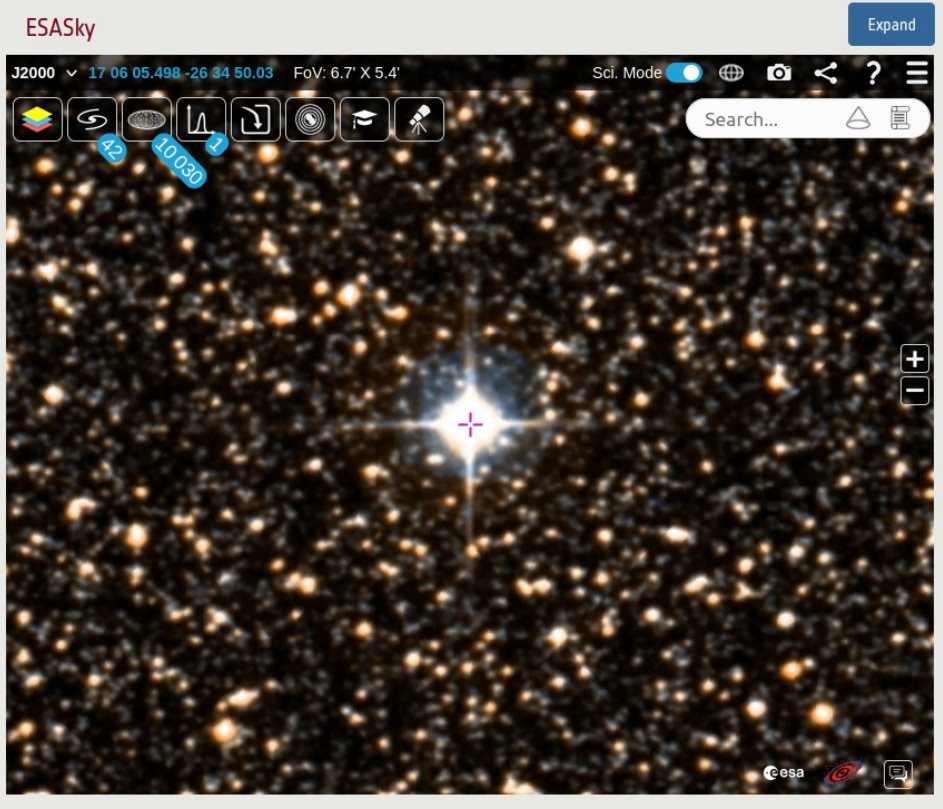
gaia archive

HOME | SEARCH | SINGLE OBJECT | VISUALISATION | HELP

Gaia DR3 4111834567779557376

Astrometry | Photometry | Spectroscopy | Astrophysical parameters

Description	Value	Unit
Equatorial ICRS (RA,DEC) at epoch 2016	256.5229102004, -26.5805651308	deg
Galactic (l, b) at epoch 2016	357.0803450631, 8.5731964881	deg
Parallax	1.1538 ± 0.0241	mas
RA proper motion	0.3896 ± 0.0256	mas yr^{-1}
DEC proper motion	-0.2893 ± 0.0165	mas yr^{-1}
Renormalised unit weight error	0.837	



Single Object

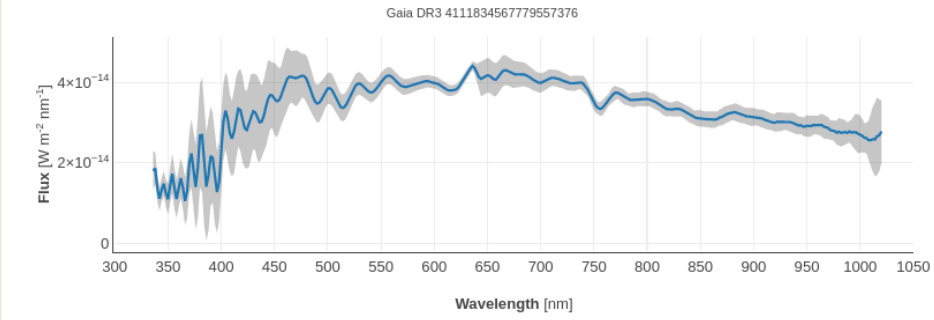
gaia archive

HOME | SEARCH | SINGLE OBJECT | VISUALISATION | HELP

esa

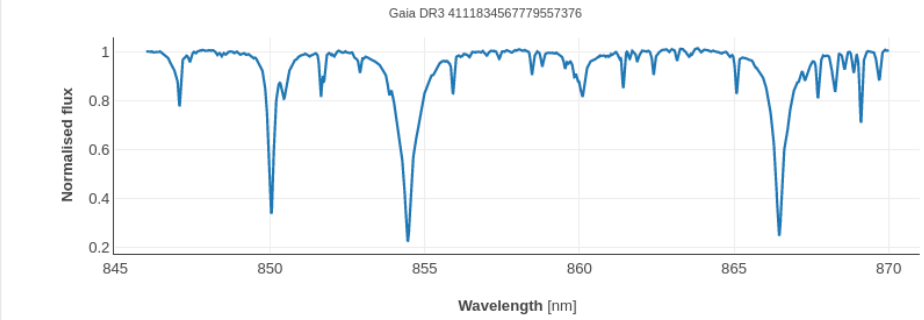
BP/RP (XP) Spectrum

Expand



RVS Spectrum

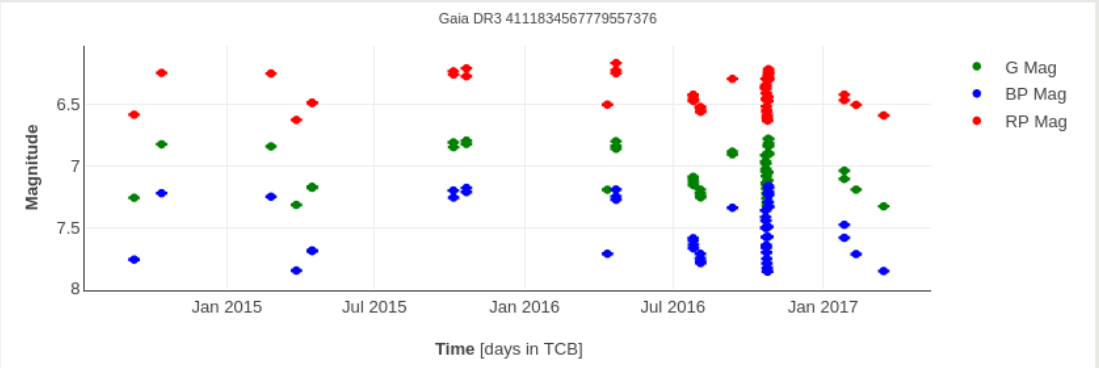
Expand

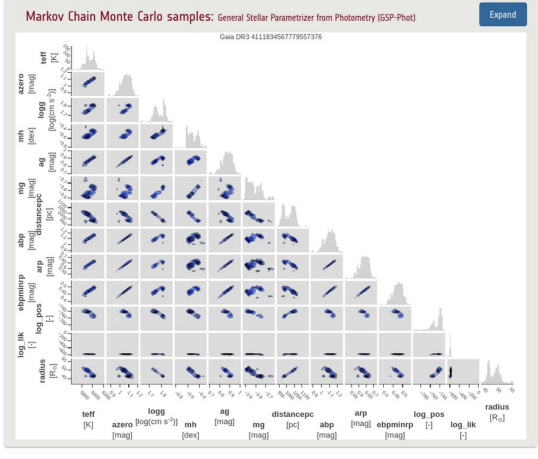


Epoch Photometry

Show errors

Expand





Single Object

Target/Coordinates
Gaia DR3 4111834567779557376

Download

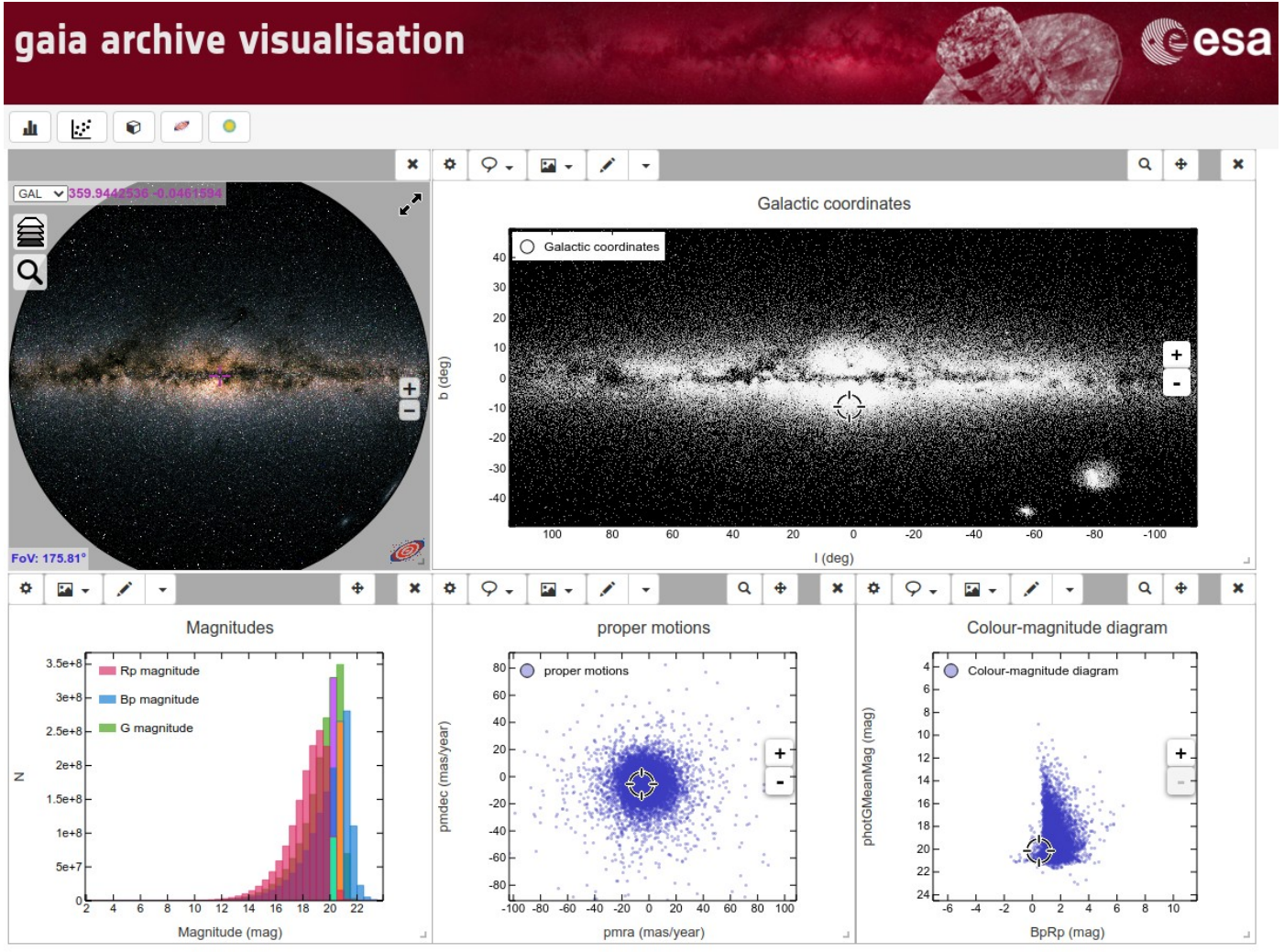
Select Structure
Individual

Select Format
VO Table

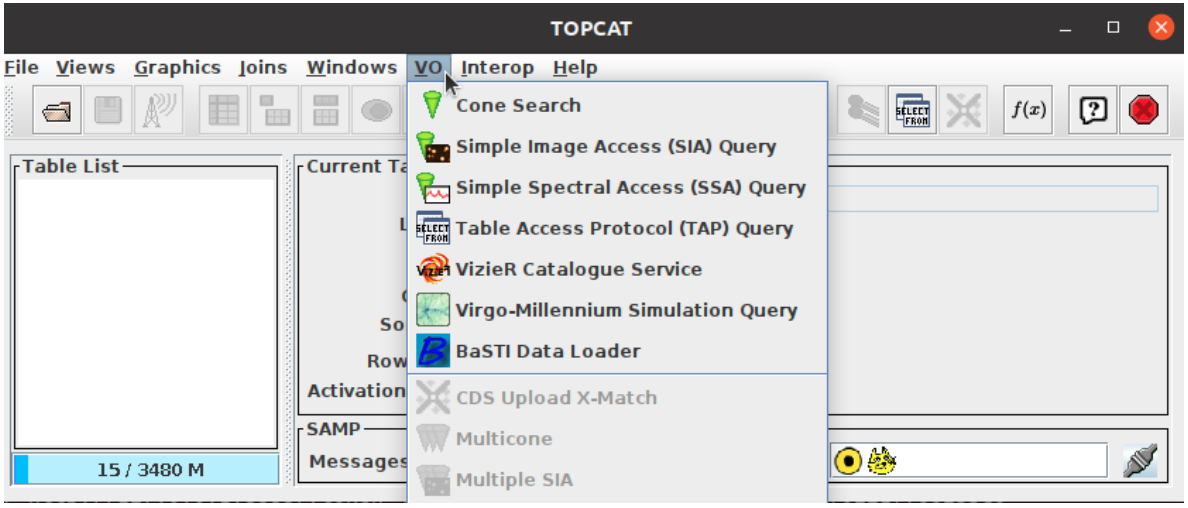
All
Epoch photometry
XP mean sampled spectrum
XP mean continuous spectrum
RVS mean spectrum
MCMC MSC
MCMC GSP-Phot

Save file

Visualisation

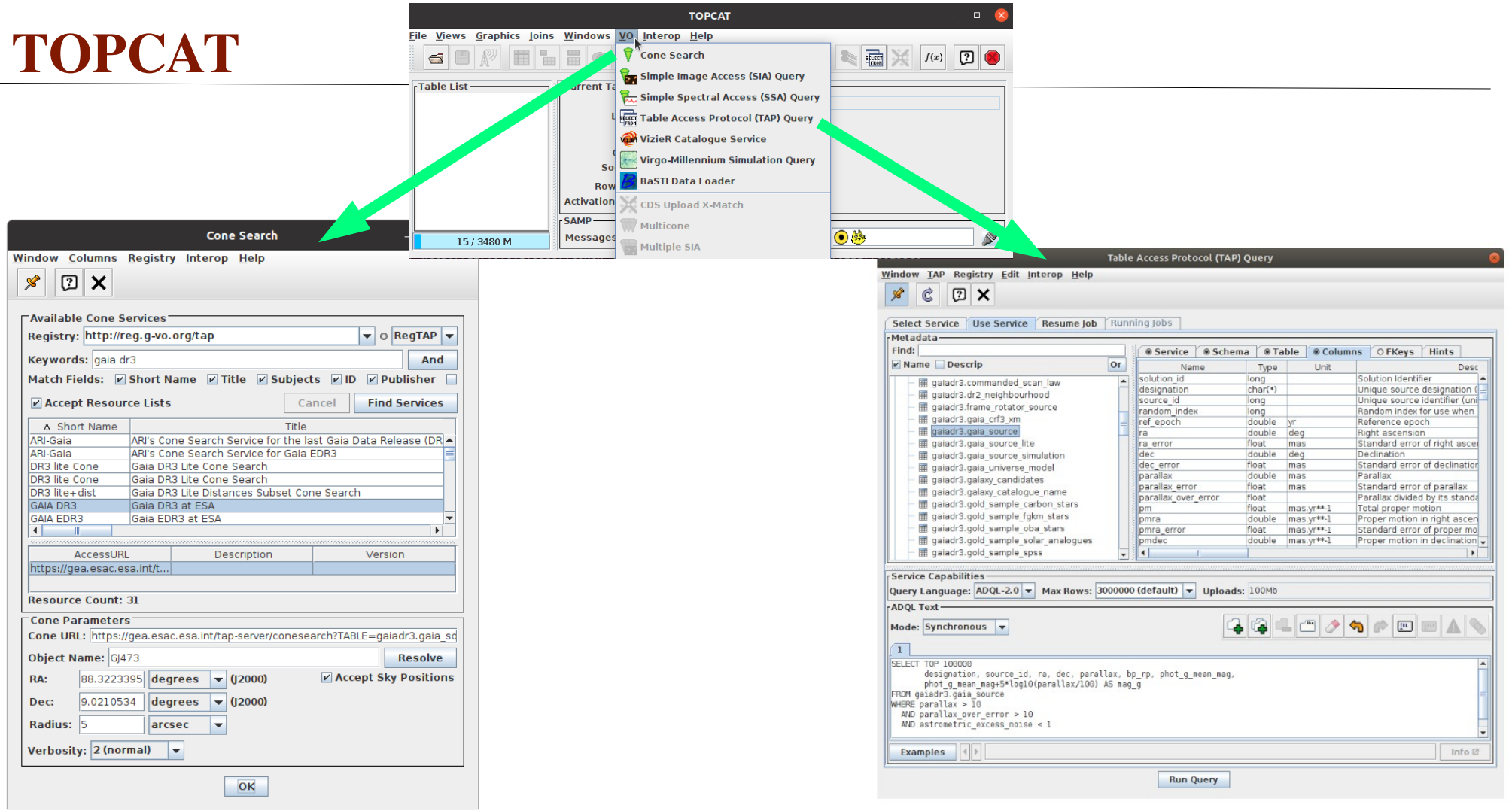


TOPCAT



https://www.star.bris.ac.uk/~mbt/topcat/

TOPCAT



https://www.star.bris.ac.uk/~mbt/topcat/