

Dashboard

A federation workspace for science data — sources, datasets, pipelines, notebooks and releases


Datasets

128


Sources

12


Pipelines

9


Runs

340


Notebooks

24


Releases

7

Recent runs		
Succeeded	Pipeline run 1	10:36 PM
Succeeded	Pipeline run 2	04:30 PM
Running	Pipeline run 2	04:32 PM
Failed	Pipeline run 1	03:53 PM
Raused	Pipeline run 3	08:23 AM

Recently published		
Version 1.0	v1.1.0	DOI: 206/026067,12013-26559AB
Version 1.0	v1.1.0	DOI: 206/026067,12013-26559AB
Version 1.0	v1.1.0	DOI: 206/026067,12013-26559AB

 Dashboard

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 Pipelines

▶ Runs

Research

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 Data Access

Datasets

Federated science datasets — catalog, schema, lineage and access

Status



Source



Format



Access



New dataset

Name	Status	Access	Format	Size	Updated	Tags
Gaia DR3 Source Catalog	Available	Public	FITS	4.2 TB	Aug 3, 2021	survey photometry
Hubble Deep Field Mosaic	Ingesting	Workspace	HDF5	890 GB	Aug 3, 2021	photometry
JWST NIRCам Exposures	Available	Restricted	FITS	2.1 TB	Aug 3, 2021	survey photometry
Kepler Light Curves	Draft	Workspace	CSV	2.1 TB	Aug 3, 2021	survey survey
SDSS Spectra DR17	Deprecated	Public	VOTable	42.1 MB	Aug 3, 2021	survey tags
Showing 1–20 of 128						

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DATASET DETAIL

Gaia DR3 Source Catalog

● Available

🌐 Public

v3 ▾

Edit

Publish

Source
Gaia DR3 FeedCollection
Deep Sky SurveysFormat
FITSSize
4.2 TBRows
1.8 billionIngested
Jun 2028Artifact
Download

Schema fields

Name	Type	Unit	Nullable	Provenance
ra	Coordinate	deg	No	—
dec	Coordinate	deg	No	—
parallax	Float,	mas	No	—
phot_g_mean_mag	Float, mag	-	No	—
source_id	Integer	-	No	—

Tags: astrometry survey atrometry dataset survey pipelines nnans

Lineage

Source → Dataset



Discussion



Burdenoff 1dmin

Wowen does a project about many tormemeter's source dataset?

5 mei



Burdenoff 18min

Thank you sandeamay! 🥳

Add a comment...



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New dataset

Register a dataset in the catalog.

Name

JWST NIRCам Deep Field

Description

Format

FITS

Access level

Public

Workspace

Restricted

Embargoed

Source

Gaia DR3 Feed

Collection

Deep Sky Surveys

Tags

Chips × Chips × |

Drag a file or [browse](#) — stored via Files

Cancel

Create dataset

 Dashboard

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FACET
Instrument

- ☐ Telescope 42
- ☐ Satellite 31
- ☐ Ground sensor 12
- ☐ Archive 28
- ☐ API 15

Access

- ☐ Public 60
- ☐ Workspace 40
- ☐ Restricted 20
- ☐ Embargoed 8

Format

- ☐ FITS
- ☐ HDF5
- ☐ CSV
- ☐ VOTable

Mission / Survey

- ☐ Gaia
- ☐ Hubble
- ☐ JWST
- ☐ SDSS
- ☐ Kepler

128 datasets

Sort by quest ▾

CosmicIntersection

 FITS  3 MB  rows

Public

Gaia Liva Workspace

CosmicIntersection
Dataset 1

 HITS  1 MB  rows

Public

Gaia Workspace

CosmicIntersection
Dataset 2

 HDF  1 MB  rows

Public

Ground seno Telescope

CosmicIntersection

 FITS  1 MB  rows

Public

Gaia Hubble JWST

CosmicIntersection
Dataset 1

 FITS  1 MB  rows

Public

Gaia API Embargoed

CosmicIntersection
Dataset 2

 FITS  1 MB  rows

Public

Gaia API Embargoed

CosmicIntersection
Dataset 3

 HDF  1 MB  rows

Access

JWSI JWST farm

CosmicIntersection
Dataset 4

 FITS  1 MB  rows

Public

Restricted Embargoed

CosmicIntersection
Dataset 4

 FITS  1 MB  rows

Public

Gaia Keple Embargoed

CosmicIntersection
Dataset 5

 FITS  1 MB  rows

Public

SDSS Kepler

CosmicIntersection

 HDF  1 MB  rows

Public

Hubbiero Irana Bullatic

CosmicIntersection
Dataset 6

 FITS  1 MB  rows

Public

SDSS Kepler

CosmicIntersection
Dataset 7

CosmicIntersection

CosmicIntersection

CosmicIntersection



CosmicIntersection

Dashboard

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Becomd data

Deployments

Events

Notifications

Settings

Data-sources > Sources

Search



VT

Sources

Data sources — instruments, archives and feeds that supply raw data into your federation.

Type



Status



New source

Name	Type	Status	Endpoint	Last synced	Tags
 Hubble Legacy Archive	Telescope	Connected	hla.stsci.edu	2m ago	
 Gaia DR3 Feed	Satellite	Syncing	gea.esac.esa.int		
 IRSA Archive	Archive	Connected	irsa.ipac.caltech.edu	1h ago	
 MAST API	API	Configuring	mast.stsci.edu		
 VLA Ground Array	Ground sensor	Degraded			
 Simulation Cluster	Simulation	Disabled			

🏠 Dashboard

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SOURCE DETAIL

Hubble Legacy Archive

Telescope

Edit

Mark synced

Archive

● Connected

Endpoint

https://hla.stsci.edu

Last synced

2 minutes ago

Created

2 minutes ago

Updated

2 minutes ago

Tags

astronomy

imaging

astronomy

imaging

Datasets from this source

Name	Status	Access	Rows	Updated
Hubble Deep Field Mosaic	Ingesting	—	15.2K	August 8, 2023
ACS Wide Survey	Available	Public	2,34B	August 8, 2023
WFC3 IR Catalog	Available	Workspace	7,047	August 8, 2023
COS Spectra	Deprecated	—	0	August 8, 2023

 Dashboard Catalog

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Collections

Curated groupings of datasets by mission, survey or research theme

[New collection](#)

Deep Sky Surveys

Public

[/deep-sky-surveys](#)

Curated groupings of datasets by mission, survey or research theme.

18 datasets

survey

imaging

Exoplanet Missions

Private

[/exoplanet missions](#)

Curated groupings of datasets ex planet missions for that exoplanet.

12 datasets

mission

transit

Solar System Bodies

Public

[/solar system bodies](#)

Curated groupings of datasets, system bodies are in the system bodies.

9 datasets

planetary

orbital

Gravitational Wave Events

Public

[/deep-sky-surveys](#)

Gravitational wave events. analysi:and ripples, transient, Holy:ey ripples.

24 datasets

transient

ripples

Galactic Spectroscopy

Private

[/galactic-spectroscopy](#)

Curated groupings of galactic spectra:, spectroscopys, and chemistry.

31 datasets

spectra

chemistry

Cosmic Microwave Background

Public

[/cosmic-microwave-background](#)

Cosmic microwave background for cosmic microwave background.

6 datasets

cosmology

early-universe

 Dashboard Catalog Datasets Sources Collections

Pipelines

 Pipelines Runs

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 Notebooks Analyses Releases Data Access

Deep Sky Surveys

Public

Edit

Archive

slug: /deep-sky-surveys

Description of space sky science an objects in deep sky surveys.

Tag

Geomits

Hubble

Sources

Craman

VOTable

VOTable

Datasets in this collection

Name	Status	Access	Format	Updated
Gaia DR3 Source Catalog	Available	Public	FITS	2023-07-18
Hubble Deep Field Mosaic	Ingesting	Workspace	HDF5	2023-07-19
SDSS Spectra DR17	Available	Public	VOTable	2023-07-19
Pan-STARRS Stack	Available	Restricted	FITS	2023-02-21
2MASS Point Source	Available	Public	CSV	2023-03-20
18 datasets				



Dashboard



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Datasets/Sources/Collections



Pipelines
Pipelines/Runs



Research
Notebooks/Analyses/Releases



Data Access

Pipelines

New pipeline

Orchestrate ingest, calibration, transform and export steps across your data

Status

Name	Status	Trigger	Schedule	Last run	Version	Tags
Photometric Calibration	Active	Scheduled	0 2 * * *	2h ago	v4	...
Astrometric Reduction	Active	Manual	-	1d ago	v2	...
Spectral Extraction	Paused	On ingest	-	-	v1	...
Lightcurve Detrending	Draft	Manual	-	-	v1	...
Mosaic Coaddition	Archived	Scheduled	0 */6 * * *	-	v1	...

Start run

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- Pipelines
Pipelines/Runs
- Research
Notebooks/Analyses/Releases
- Data Access

PIPELINE DETAIL

Photometric Calibration Active

▶ Start run

✎ Edit

📁 Archive

🕒 Trigger Scheduled 0 2 * * * v4

Overview

Step flow DAG

Photometric Calibration



Runs

Run # ↓	Status	Started	Duration	Triggered by
#340	Succeeded	2 hours ago	4 min 12 sec	VT VT user
#339	Succeeded	1 day ago	3 min 58 sec	VT VT user
#338	Failed	2 days ago	—	VT VT user
#337	Running	↻	—	VT VT user

Dashboard

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New pipeline

Name

Spectral Extraction v2

Description

Trigger

Manual

Scheduled

On ingest

Webhook

Schedule

0 2 * * *

Definition

Kind Ingest (INGEST)



Kind Calibrate (CALIBRATE)



Kind Transform (TRANSFORM)



Kind Analyze (ANALYZE)



Kind Export (EXPORT)



Add step

Tags

Tags ×

Cancel

Create pipeline

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Runs

Every pipeline execution, with status, timings and outcomes

Status



Pipeline



Run #	Pipeline	Status	Started	Finished	Duration	Triggered by
#340	Photometric Calibration	Succeeded	2h ago		4m 12s	VT
#339	Astrometric Reduction	Running 	5m ago		—	VT
#338	Spectral Extraction	Failed	2d ago		1m 03s	VT
#337	Photometric Calibration	Queued	—		—	VT
#336	Mosaic Coaddition	Cancelled	—		—	VT
#335	Lightcurve Detrending	Succeeded	3d ago		12m 40s	VT

RUN DETAIL

Run #340

Pipeline — Photometric Calibration
Succeeded

Succeeded
Succeeded
Calibratted
Duration
State-machine

Overview

Status

Succeeded

Pipeline

Pipeline- Photometric Calibration

Dataset

Photometric Calibration

Triggered by

VT

Started

5/9/2023, 12:33:00

Finished

5/9/2023, 12:53:40

Duration

4m 12s

Params

```
{
  "name": "ingest1",
  "params:1_daset": "1781"
}
```

Metrics

```
{
  "stats": "us",
  "metrics_eosinability": 1.13,
  "metrics_tintense": 1.00
}
```

Steps



Add step

Notebooks

Computational notebooks for running analyses over federated science datasets.

New notebook

Status

Title	Status	Runtime	Datasets	Shared	Updated	Tags
Photometry QA	Published	python-3.11	3 datasets 	Shared	1h ago	
Redshift Estimation	Running	python-3.11	2 datasets 		Private	
Lightcurve Analysis	Draft	julia-1.10	1 dataset			
Spectral Classification	Published	python-3.11	5 datasets 	Shared		
CMB Power Spectrum	Archived	r-4.3	2 datasets			

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Notebook Detail

Photometry QA

Published

python-3.11

Shared

share-slug/47dcf93a2b

Run analysis

Edit

Archive

Runtime

13 minute: 28:30mis

Environment

{
 "numpy": "1.0.0,
 "astropy": "1.5.1"
}

Datasets

Gaia DR3 Source Catalog

Hubble Deep Field Mosaic

Notebook file

Download file

Analyses

Title	Method	AI	Status	Started ↓	Output
Aperture photometry	aperture-photometry	AI	Completed	Today 16:01	Download
PSF fitting	psf		Running	Today 29:30	
Zero-point calibration	-		Completed	Today 16:01	

Discussion

VT

Darn comments

2m

Compon thess show recent comments.

Darni: 7 month ago

New ago

Hey and me the comments replies.

VT

Darn Commen...

1m ago

Hey nom are you want photometry?

Darni: 1 year ago

2h

Thank you for alienahie bsing chance output chart.

Type a message...

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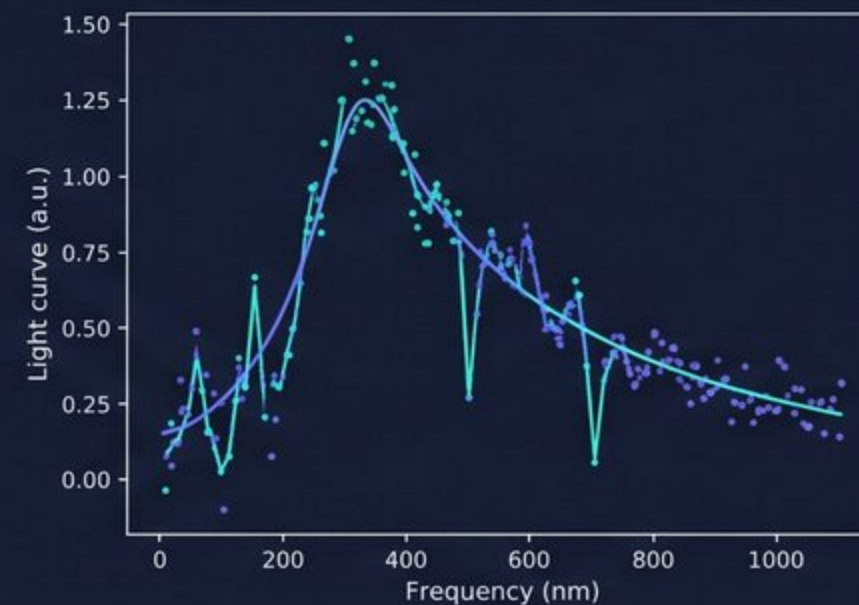
Analyses

Analysis runs executed over notebooks and federated datasets

Run analysis

Title	Method	AI	Status	Source	Started	Output
Aperture photometry	aperture-photometry	AI	Completed	notebook//analyses ↗	2023-03-23 1:30:03	↓
Redshift estimation	template-fit	AI	Running	notebo		
Anomaly detection	isolation-forest	AI	Completed	notebo		
Zero-point calibration	--		Pending	notebo		

Analysis results



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Releases

Citable, versioned publications that bundle datasets and notebooks.

New release

Title	Version	Status	DOI	Authors	Published	License
DR1 Photometric Catalog	v1.0.0	Published			5 minutes ago	CC-BY-4.0
Exoplanet Transit Set	v0.9.0	Under review			1 hours ago	CC-BY-4.0
Spectral Atlas	v1.2.0	Draft			1 year ago	CC-BY-4.0

Publish release

DOI: 10.5281/zenodo....

Abstract

Abstract DR1 Photometric catalog prmetrially, comcast detarmation but iinnaled transiibiam sen...

Authors: Mali, Bregela, Hoxiners, Sando

License: CC-BY-4.0

Dataset IDs

dataset_I105780000...

dataset_I105780009...

Cancel

Publish

Dashboard

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Research

Data Access

Data access

Govern who can reach restricted and embargoed datasets, with scoped, expiring grants.

Grant access

Dataset



Status



Dataset	Grantee	Status	Scopes	Reason	Granted	Expires	
JWST NIRCам Exposures researcher@obs.edu		Active	read download	Collaboration	Jun 2026	Dec 2026	Revoke
Kepler Light Curves partner@lab.org		Pending	read	Peer review	Jun 2026	Dec 2026	Revoke
SDSS Restricted analyst@uni.edu		Expired	-	-	Jun 2026	-	Revoke
Embargoed Survey team@consortium.org		Revoked	-	-	Jun 2026	Dec 2026	Revoke

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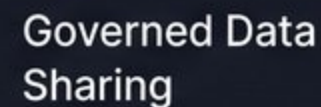
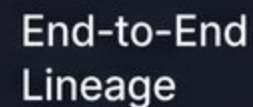
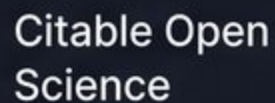
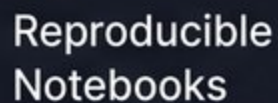
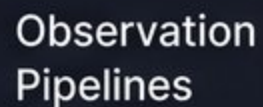
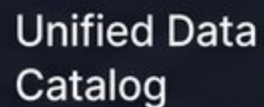
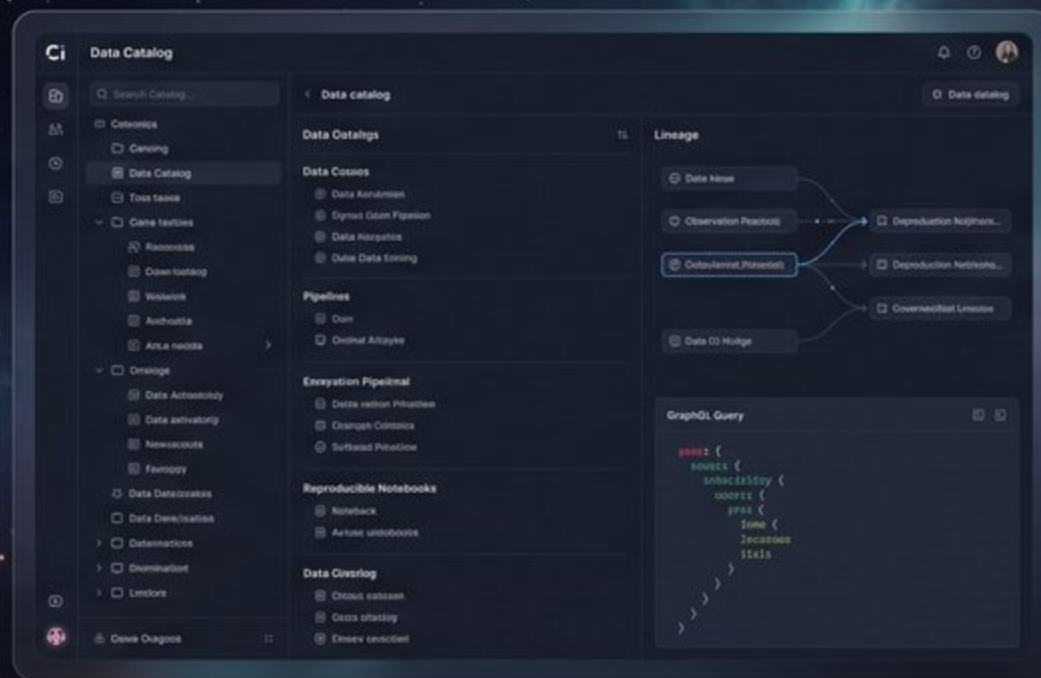
Lineage

Trace any result from raw observation to citable release.



The unified space & science data platform

Sign In



5-stage lifecycle · GraphQL-first · FAIR releases · RBAC + audit

Dashboard

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SourceSets

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Settings

Cut out

Data

Type a command or search...

⌘K

Navigate

 Go to Datasets

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 Go to Data Access

Ctrl A

Create

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 New source

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 New pipeline

Ctrl P

 New notebook

Ctrl N

 New release

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Recent

 Gaia DR3 Source Catalog

Ctrl K

 Photometric Calibration

Ctrl P

 DR1 Photometric Catalog

Ctrl ..

+ New dataset

Search releases

Sources

0 datasets

Sources

7 minutes

Pipelines

5 minutes

Notebooks

4 minutes

Releases

2 minutes

Actions

Action

No items available

Data Dashboard

Data data and what contained in projects

View

?



Dashboard

Data sources

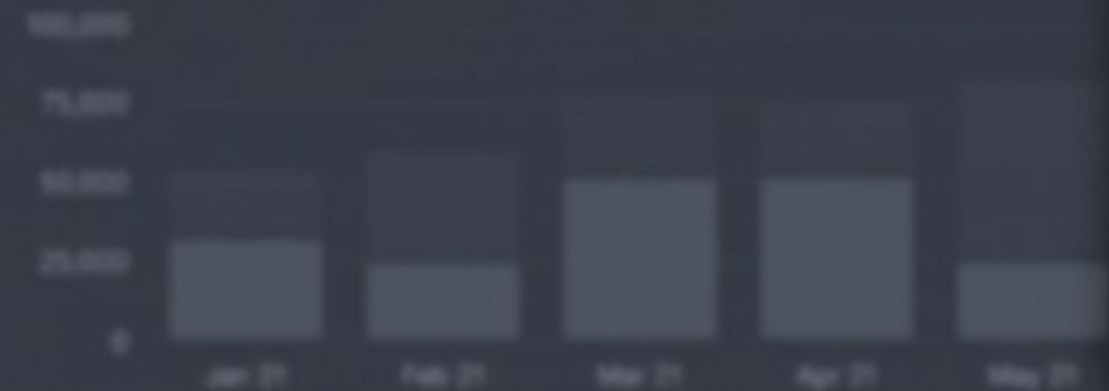
[icon] [icon] [icon]



Complex data



Data sterevents



Notifications

[Mark all read](#)

All Unread

**Pipeline run succeeded —**

2m ago

Photometric Calibration Run #340 finished

**Dataset published —**

1h ago

Gaia DR3 Source Catalog is now Available

**Release published —**

3h ago

DR1 Photometric Catalog v1.0.0 with DOI

**Data access granted —**

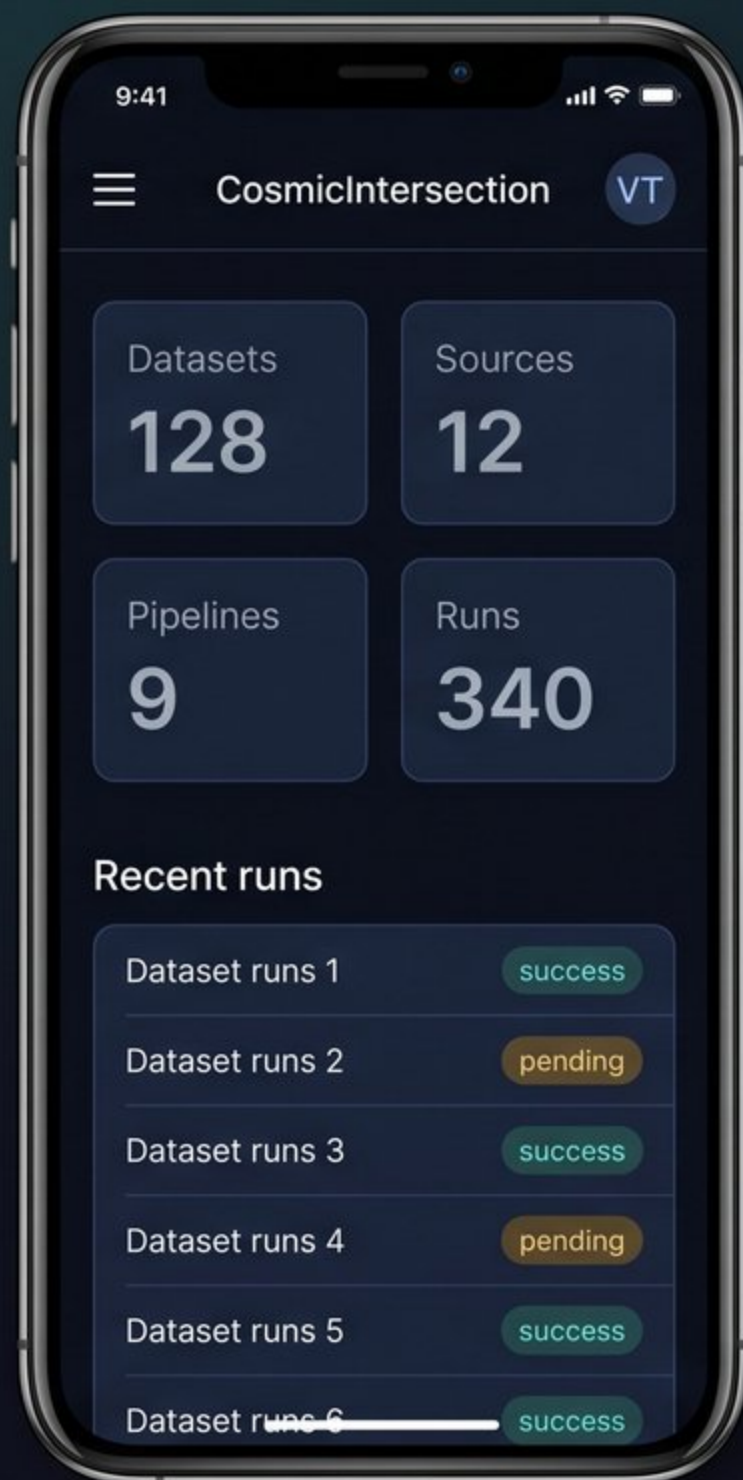
5h ago

researcher@obs.edu can now read JWST
NIRCam Exposures**Pipeline run failed —**

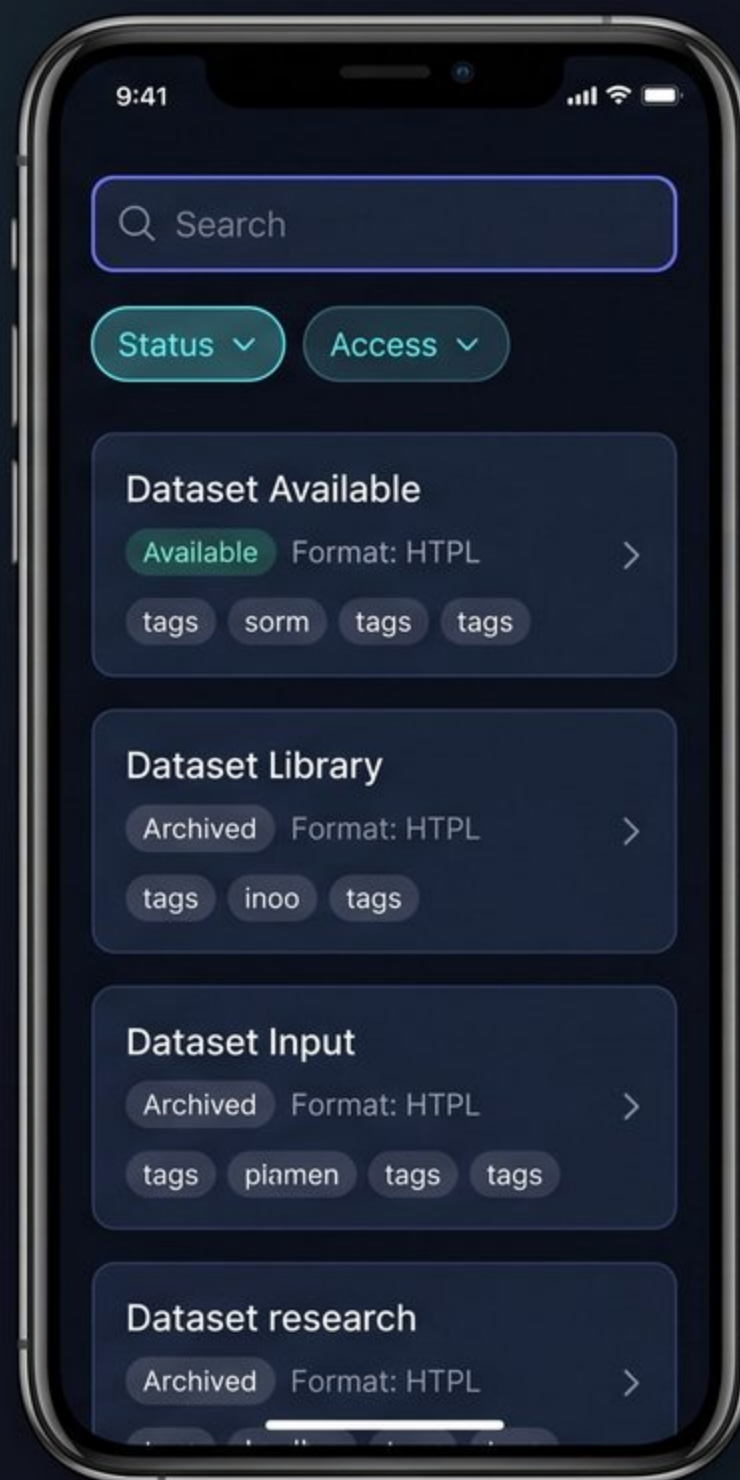
1d ago

Spectral Extraction Run #338

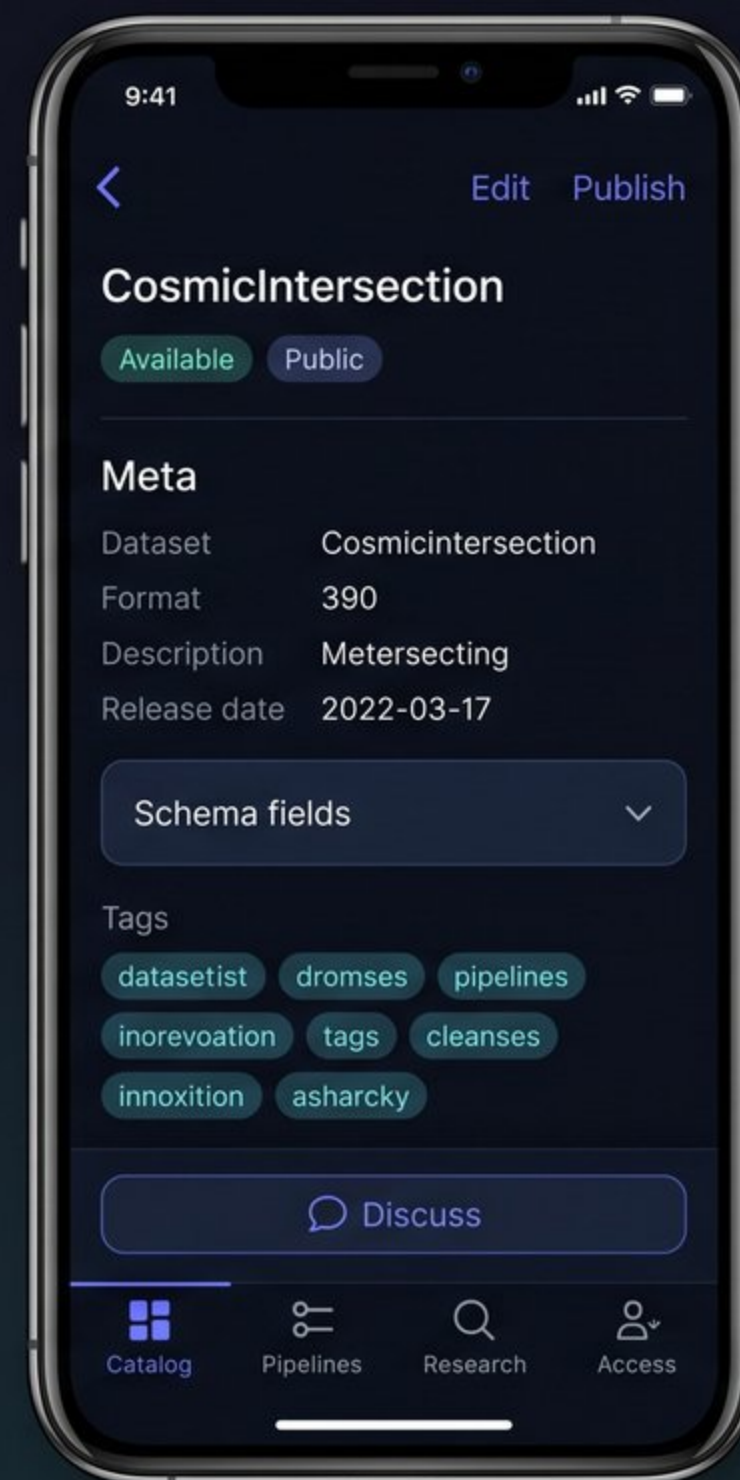
DASHBOARD



DATASETS



DATASET DETAIL





Space & Science Data Platform

- ✓ Unified data catalog
- ✓ Reproducible pipelines & notebooks
- ✓ Enterprise SSO & governance
- ✓ FAIR citable releases

en ▾

Welcome back

Enter your credentials to continue

Email

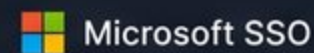
Password

☐ Remember me

[Forgot password?](#)

Sign in

or continue with



Prefer passwordless? [Sign in with Magic Link](#)

Orion Lab

Global search

⌘K

🔔

👤

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Catalog / Datasets / TESS Sector 42 Light Curves

TESS Sector 42 Light Curves

AVAILABLE

WORKSPACE

Source: TESS Archive · Format: FITS · Version 3 · 1,284,502 rows · 42.6 GB · Ingested 12 Jul 2026

Schema fields

	Name	Type	Unit	Nullable	Provenance
1	time	TIMESTAMP	BJD	no	instrument header
2	ra	COORDINATE	deg	no	WCS solution
3	dec	COORDINATE	deg	no	WCS solution
4	pdcsap_flux	FLOAT	—	yes	pipeline v3
5	quality	INTEGER	—	yes	pipeline v3

Assistant

Context: Dataset · TESS Sector 42 Light Curves

Which schema fields are missing units?

- pdcsap_flux has no unit set — expected e-/s
- quality has no unit, which is correct for a bitmask

Ask about this dataset...

credits metered

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Research / Analyses

Analyses

Title	Method	AI	Status	Started ↓
Transient search — se	gaussian-fit	✦	RUNNING	30 Jul 09:12
Flare candidate classi	random-forest	✦	COMPLETED	29 Jul 14:03
Photometric zero-poi	photometry	—	COMPLETED	28 Jul 11:40

Run analysis

Title

Transient search — sector 42

Source

Dataset

Notebook

TESS Sector 42 Light Curves

Method

gaussian-fit

☒

AI-assisted analysis

Records that this finding was machine-assisted

Cancel

Run analysis

Onboard the Gaia DR4 subset: register the archive source, catalog the dataset, declare its columns, then publish it.

- ✓ cosmicintersection_sources_create
Gaia Archive (ARCHIVE) · CONFIGURING
- ✓ cosmicintersection_datasets_create
Gaia DR4 Astrometric Subset · DRAFT
- ✓ cosmicintersection_datasets_fields_add
source_id (INTEGER)
- ✓ cosmicintersection_datasets_fields_add
ra (COORDINATE, deg)
- ✓ cosmicintersection_datasets_fields_add
parallax (FLOAT, mas)
- ✓ cosmicintersection_sources_mark_synced
Gaia Archive · CONNECTED
- ✓ cosmicintersection_datasets_publish
AVAILABLE · quota checked

⚠ Archive and revoke tools are permission-guarded only.

Orion Lab

Catalog / Datasets

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Datasets

Name	Status	Access	Source	Format	Rows	Updated
Gaia DR4 Astrometric Subset	AVAILABLE	WORKSPACE	Gaia Archive	Parquet	8,442,110	just now
TESS Sector 42 Light Curves	AVAILABLE	WORKSPACE	TESS Archive	FITS	1,284,502	12 Jul
VLT Spectra — HD 209458	AVAILABLE	RESTRICTED	VLT Feed	FITS	96,400	09 Jul



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Gaia DR4 Astrometric Subset

DRAFT

Source: Gaia Archive · Format: Parquet · 8,442,110 rows

Proposed schema

AI draft

Roadmap concept

Field	Proposed type	Unit	Nullable	Provenance	Confidence	Decision
source_id	INTEGER	—	no	Gaia source identifier	0.98	Accept · Edit · Reject
ra	COORDINATE	deg	no	ICRS right ascension	0.96	Accept · Edit · Reject
dec	COORDINATE	deg	no	ICRS declination	0.96	Accept · Edit · Reject
parallax	FLOAT	mas	yes	Gaia parallax solution	0.91	Accept · Edit · Reject
phot_g_mean_mag	FLOAT	mag	yes	G-band mean magnitude	0.74	Accept · Edit · Reject
astrometric_excess_noise	FLOAT	mas	yes	fit residual	0.61	Accept · Edit · Reject

4 accepted · 2 pending review

Reject all

Commit accepted fields

Nothing is written until you commit



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Pipelines / Runs / Run #147

Run #147 — TESS Light Curve Reduction

FAILED

Started 30 Jul 03:00 · Duration 4m 12s · Trigger: SCHEDULED · Dataset: TESS Sector 42 Light Curves

INGEST ·
fetch frames

SUCCEEDED

41s

TRANSFORM ·
stack frames

SUCCEEDED

1m 08s

CALIBRATE ·
flat-field

FAILED

2m 20s

ANALYZE ·
extract light curves

CANCELLED

EXPORT ·
write parquet

CANCELLED

Similar failures

Run	Step	Error	When
Run #141	CALIBRATE	flat reference missing	28 Jul
Run #138	CALIBRATE	flat reference missing	26 Jul
Run #135	CALIBRATE	flat reference stale	24 Jul

Triage

AI draft

Roadmap concept

Likely break: step 3 CALIBRATE · flat-field**Cluster:** 6 similar failures since 24 Jul**Signal:** source TESS Archive has been DEGRADED for 3 days; flat-field reference not refreshed**Proposed action:** reconnect the source, then re-run from step 3

New release

DRAFT

AI draft from lineage

Roadmap concept

Title

Transient candidates in TESS Sector 42

Version

v1.0.0

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Abstract

AI-drafted — review before publishing

We report 214 transient candidates recovered from TESS Sector 42 light curves after flat-field recalibration.

Flare candidates were classified with a random-forest model and cross-checked against the Gaia DR4 astrometric subset.

Notebook

Flare Survey — sector 42

runtime python-3.12 · environment pinned

Datasets in bundle

TESS Sector 42 Light Curves (v3) from lineage ×

Flat-field Reference 2026-07 from lineage ×

Transient Candidate Table (analysis output) ×

Analyses included

Transient search — gaussian-fit (AI-assisted)

Flare candidate classification — random-forest (AI-assisted)