



Publicando los datos del OAJ: TACData y CEFCA Catalogues Portal

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Publicando los datos del OAJ

- **Grandes cartografiados fotométricos:**
 - **J-PLUS:** Javalambre-Photometric Local Universe Survey
 - **J-PAS:** Javalambre Physics of the Accelerating Universe Astrophysical Survey

- **Al menos el 20% del tiempo a la comunidad científica:**
 - Cartografiados de legado y proyectos de tiempo abierto regular

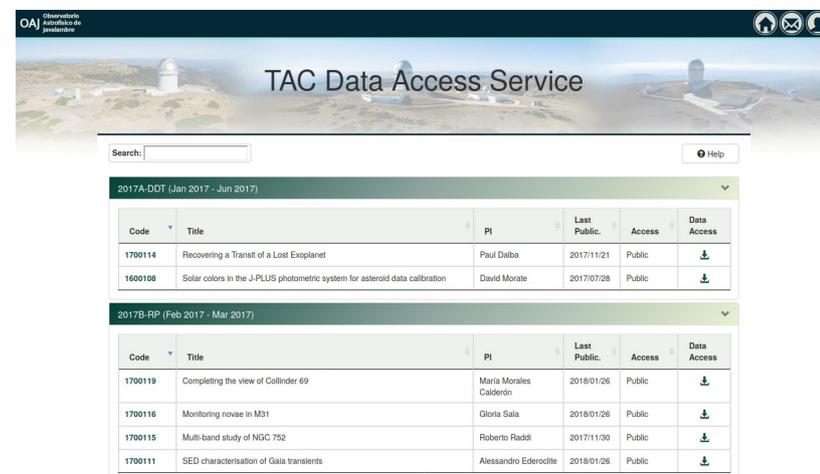
Publicando los datos del OAJ

- Necesario dar **acceso a los datos**
 - **Acceso sencillo y ágil**
 - **Gran volumen** de datos
 - Datos de **diferentes instrumentos**
 - **Diferentes tipos de datos**

- **Diseño e implementación** de los portales web:
 - TACData Portal
 - CEFCA Catalogues Portal

TACData Portal

- Acceso a los datos de **Tiempo Abierto**
- Url: <https://tacdata.cefca.es>
- **Contenido del Archivo:**
 - Imágenes Raw: Ciencia, BIAS, FLAT,...
 - Imágenes individuales reducidas
 - Datos de calibración
 - Master Frames
- **Carga diaria** de datos
- **Acceso privado o público** por proyecto



Code	Title	PI	Last Public.	Access	Data Access
1700114	Recovering a Transit of a Lost Exoplanet	Paul Dalba	2017/11/21	Public	↓
1600108	Solar colors in the J-PLUS photometric system for asteroid data calibration	David Morate	2017/07/28	Public	↓

Code	Title	PI	Last Public.	Access	Data Access
1700119	Completing the view of Collinder 69	María Morales Calderón	2018/01/26	Public	↓
1700116	Monitoring novae in M31	Gloria Sala	2018/01/26	Public	↓
1700115	Multi-band study of NGC 752	Roberto Radó	2017/11/30	Public	↓
1700111	SED characterisation of Gaia transients	Alessandro Ederocite	2018/01/26	Public	↓

TACData Portal

Raw Images Master Frames Reduced Images Phot. Cal. Frames

Last publication date: 2019/05/03 19:00:04

Download script ▾

Download calib. data ▾

Download all info in CSV

Display 20 ▾

More filters

Search:

Name	Object	Status	QF	RA	DEC	Filter	Image ↓ ↻	Catalogue ↓ ↻	Products ↓ ↻
+ j02-20190426T214023-01_proc	Tile01	Final	-	0.00037	84.00002	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190426T214352-01_proc	Tile02	Final	-	340.00031	84.00000	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190426T215001-01_proc	Tile03	Final	-	330.00031	86.00000	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190426T215332-01_proc	Tile10	Final	-	0.00032	82.00000	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190426T215659-01_proc	Tile23	Final	-	0.00030	86.00000	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190427T012038-01_proc	Tile04	Final	-	309.60037	55.99999	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190427T012857-01_proc	Tile07	Final	-	305.28037	46.00000	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190427T013418-01_proc	Tile08	Final	-	301.93579	29.99999	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190427T013746-01_proc	Tile05	Final	-	300.75995	28.00000	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190427T014117-01_proc	Tile09	Final	-	306.00034	48.00000	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190427T014729-01_proc	Tile06	Final	-	313.84656	64.00000	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190427T015056-01_proc	Tile11	Final	-	309.23114	63.99999	rSDSS	↓ ↻	↓ ↻	↓ ↻
+ j02-20190427T015434-01_proc	Tile12	Final	-	299.62784	26.00000	rSDSS	↓ ↻	↓ ↻	↓ ↻

TACData Portal

- 163 proyectos de tiempo abierto
- ~169.000 imágenes raw de ciencia (~231.000 con BIAS,...)
 - ~ 8,5TB imágenes raw de ciencia
- ~169.000 imágenes reducidas individuales
 - ~11TB imágenes reducidas individuales (+~1.6TB productos)
- ~2.500 master frames

CEFCA Catalogues Portal

- Acceso a los datos de **J-PLUS** y **J-PAS**
- Url: <https://archive.cefca.es>
- **Contenido del Archivo:**
 - Imágenes combinadas (coadd)
 - Imágenes individuales reducidas
 - Datos catálogos single y dual mode
 - Parámetros medidos en imágenes combinadas
 - Catálogos de valor añadido (VAC)
- **Datos cargados** al publicar una **data release**
- **Acceso privado o público** por data release



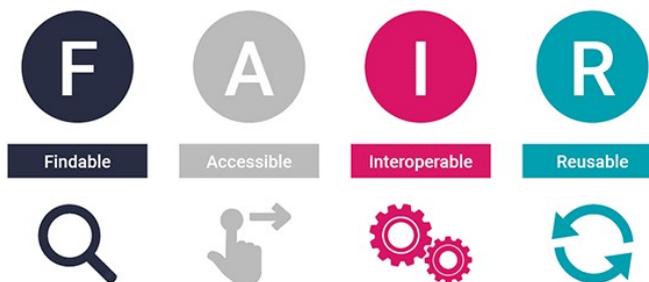
CEFCA Catalogues Portal

Servicios con interfaz web:

- Sky navigator, object visualization, image search, object list search, cone search, coverage map, asynchronous queries

Servicios VO (Virtual Observatory):

- TAP, SIAP, SCS, HiPS, Obscore, MOC
- CEFCA Publishing Registry



CEFCA Catalogues Portal

Mini J-PAS Services

J2000 14 18 20.903 452 42 19.78

Search Data filtering

Sky Navigator search

Object name:

RA: 14:17:47.628

DEC: 52:41:43.74

Clear Search

FoV: 8.17

ALADIN

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Developed and maintained by Tamara Civera (CEFCA)

Servicio: Sky navigator

CEFCA Catalogues Portal

The screenshot displays the CEFCA Catalogues Portal interface. At the top, there is a navigation bar with the 'Mini J-PAS' logo and 'Services' dropdown. The main content area is divided into several sections:

- Search Panel (Left):** Features a 'Sky Navigator search' section with input fields for 'Object name:', 'RA:' (14:17:47.628), and 'DEC:' (52:41:43.74). It includes 'Clear' and 'Search' buttons.
- Plot (Center):** A graph titled 'Object: 2241 - 10911' showing 'MAG_AUTO' vs 'Wavelength [Å]'. The y-axis ranges from 15.5 to 19.5, and the x-axis ranges from 3,000 to 10,000 Å. The plot shows a series of colored points (purple, blue, green, yellow, orange, red) connected by a line, representing the object's magnitude across different wavelengths. A 'RESET' button is located at the bottom right of the plot area.
- Star Field View (Right):** A large field of stars, with the target object highlighted. A popup window for 'Object: 2241-10911' provides detailed information:
 - Image Name: AEGIS001-v201912_rSDSS_swp
 - RA, Dec (deg): 214.5294, 52.6973
 - Class star: 0.03
 - PhotoZ: 0.11Buttons for 'Images', 'Explore Object', 'SDSS', 'NED', 'SIMBAD', and 'CDS' are also present.

At the bottom of the interface, there is a copyright notice: 'Copyright © 2018-2023 Javalambre Physics of the Accelerating Universe Astrophysical Survey. All Rights Reserved. - How to cite MINIJ-PAS-PDR201912 - Acknowledgements - v1.28' and a note: 'Developed and maintained by Tamara Civera (CEFCA)'. The 'ALADIN' logo is visible in the bottom right corner of the star field view.

Servicio: Sky navigator

CEFCA Catalogues Portal

Mini J-PAS Services ▾

Object visualization options

RGB Image options:

Show Auto ellipse

Show Petro ellipse

Image survey:

MINJPAS-PDR201912

Filters to show:

Filter	Phm <input checked="" type="checkbox"/>	Imgs <input checked="" type="checkbox"/>
uJAVA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
uJPAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0378	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0390	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0400	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0410	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0420	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0430	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Photometry:

Apertures:

4 of 7 selected

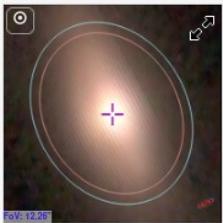
Measure:

Magnitude AB

Show Error Bars

Photometry:

Magnitude AB



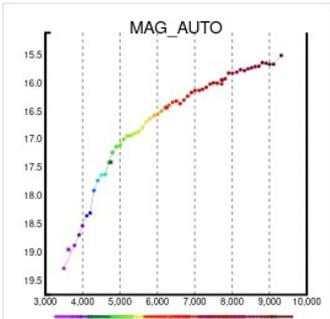
Object ID (Image ID-Object Number)		2241-10911	
RA (h:m:s)	14:18:07.06	PhotoZ	0.108
RA (deg)	214.5294	PhotoZ Min.	0.108
Dec (d:m:s)	52:41:50.1	PhotoZ Max.	0.108
Dec (deg)	52.6973	Odds	1.00
Class Star (1: star; 0: galaxy)	0.03 (GALAXY)	FWHM (arcsec)	2.47

[Download results](#)
[Transfer data](#)
[See in navigator](#)
[Images search](#)
[Download PSFs](#)

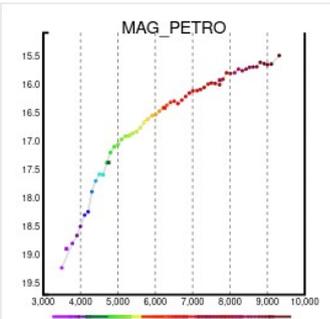
[Search SDSS](#)
[Search NED](#)
[Search Simbad](#)
[Search CDS](#)
[Search Archive Catalogues](#)

Photometry

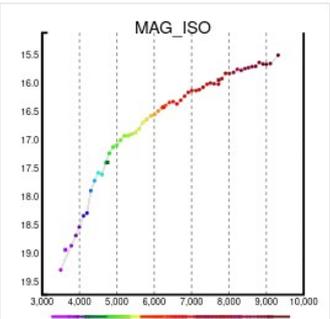
MAG_AUTO



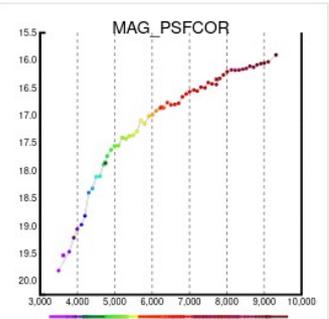
MAG_PETRO



MAG_ISO



MAG_PSFCOR



Note: Photospectrum graph can be displayed in a dialog box where it can be zoomed and panned, double clicking on the desired one.

Photometry ➤

PhotoZ ➤

Morphology ➤

Object Images ➤

Cross Identification ➤

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Developed and maintained by Tamara Civera (CEFCA)

Servicio: Visualización de objeto

CEFCA Catalogues Portal

The screenshot displays the CEFCA Catalogues Portal interface. At the top, there is a navigation bar with the CEFCA logo and 'PLUS Services' menu. The main content area is divided into a sidebar on the left and a main panel on the right. The sidebar contains 'VO Asynchronous Queries' and 'Options' with checkboxes for 'Show my jobs' and 'Show users public jobs'. The main panel features a 'Jobs' table with columns for Job ID, Phase, Owner, Public, Description, Quote (sec.), Available until, Start time, Exec Time, Rows found, Run, and Actions. Below the table is a 'Create new job' form with tabs for 'Query', 'ADQL', 'Tables: Most used', 'Tables: All scientific', 'Tables: VO services', 'Functions', and 'Enumerations'. The 'ADQL query' tab is active, showing an ADQL query: `SELECT m.alpha_j2000, m.delta_j2000, m.flux_auto, m.class_star, i.name, i.tile_id FROM iplus.FNuDualObj m, iplus.TileImage i WHERE m.tile_id = i.tile_id AND CONTAINS(POINT('', m.alpha_j2000, m.delta_j2000), CIRCLE('', 7.8574, 5.67881, .005)) = 1`. The form also includes an 'Output Format' dropdown set to 'VOTable (text/xml)', a 'Maximum # of rows' input set to '1000000', and a 'Description' text area. A note at the bottom of the form states: 'Note: After planning the query use the Run pending job button to launch the execution.' At the bottom right of the form are buttons for 'Validate Query', 'Plan Query', and 'Close'. The footer of the page contains copyright information: 'Copyright © 2015-2023 Javalambre Photometric Local Universe Survey. All Rights Reserved.' and 'Developed and maintained by Tamara Civera (CEFCA)'.

Job ID	Phase	Owner	Public	Description	Quote (sec.)	Available until	Start time	Exec Time	Rows found	Run	Actions
460227	COMPLETED	tcivera			1	2023-10-23 07:44:11	2023-10-19 07:44:12	0 s	105		
460225	PENDING	tcivera			13	2023-10-23 07:43:42					

ADQL query:

```
SELECT m.alpha_j2000, m.delta_j2000, m.flux_auto, m.class_star, i.name, i.tile_id FROM iplus.FNuDualObj m, iplus.TileImage i WHERE m.tile_id = i.tile_id AND CONTAINS(POINT('', m.alpha_j2000, m.delta_j2000), CIRCLE('', 7.8574, 5.67881, .005)) = 1
```

Output Format: VOTable (text/xml)

Maximum # of rows: 1000000

Description:

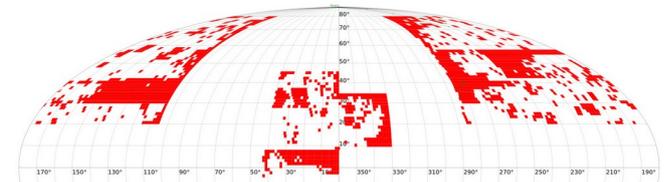
Note: After planning the query use the Run pending job button to launch the execution.

Servicio: Consultas asíncronas avanzadas (ADQL)

CEFCA Catalogues Portal

- 7 cartografiados/DR:
 - JPSV IDR202310 (Privada)
 - J-PLUS (DR3, DR2, DR1, EDR) (Públicas)
 - Minij-PAS PDR201912 (Pública)
 - J-NEP PDR202107 (Privada)

- J-PLUS DR3 (Julio 2022)
 - Área cubierta: 3192 grados²
 - Número objetos: ~47.4 millones (en dual mode)
 - Imágenes coadd: ~19.700 / 962 GB
 - Imágenes reducidas individuales: ~62.300 / 4.5 TB
 - Base datos catálogos: ~373 GB



Conclusiones

- **CEFCA Catalogues Portal y TACData Portal**

- Acceso rápido, ágil y sencillo a los datos
- Diferentes tipos de proyectos y necesidades
(Instrumentos, tipos de datos, grandes volúmenes de datos,...)
- Ofrecen un gran número de servicios diferentes



- Implementación integra en CEFCA



Conclusiones

Trabajo futuro

- Continuar mejorando nuestros servicios
 - Utilizando últimas tecnologías y versiones de los estándares
- Implementar recogida de estadísticas de uso y cantidad de datos
- Seguir trabajando con principios FAIR:
 - Asignación de **DOIs** (Digital Object Identifier)
 - Mejorar citación de los datos y seguimiento



¡GRACIAS!