

# J-PLUS Web portal

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# Content of the archive

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- **Images**
- **Catalogues data:**
  - **Parameters measured from images:**
    - Coordinates, class star, morphology, photometry...
  - **Single-mode catalogue data:**
    - Object detection performed on each filter using SExtractor
  - **Dual-mode catalogue data:**
    - Object detection and aperture definition performed at the reference band ('rSDSS')
    - Measurements in each filter using SExtractor (Dual Mode)



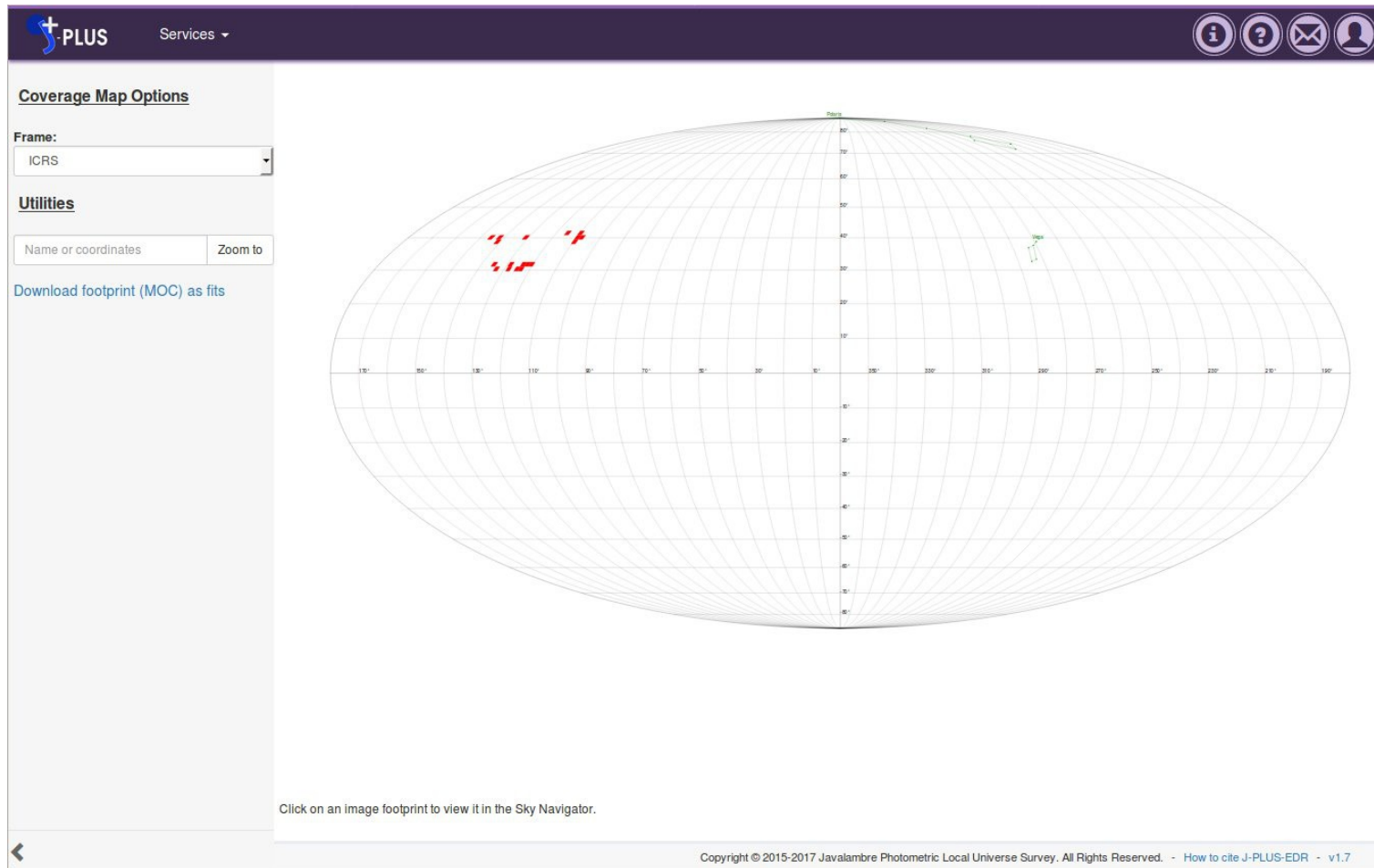
# J-PLUS Web Portal

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- **Offers dual catalogues data.**
  - Single catalogue data available through V.O. Services
- **Access:**
  - <http://j-plus.es> EDR section
  - <http://archive.cefca.es/catalogues/jplus-edr>
- **Services:**
  - Coverage Map
  - Sky Navigator
  - Object List Search
  - Image Search
  - Cone Search

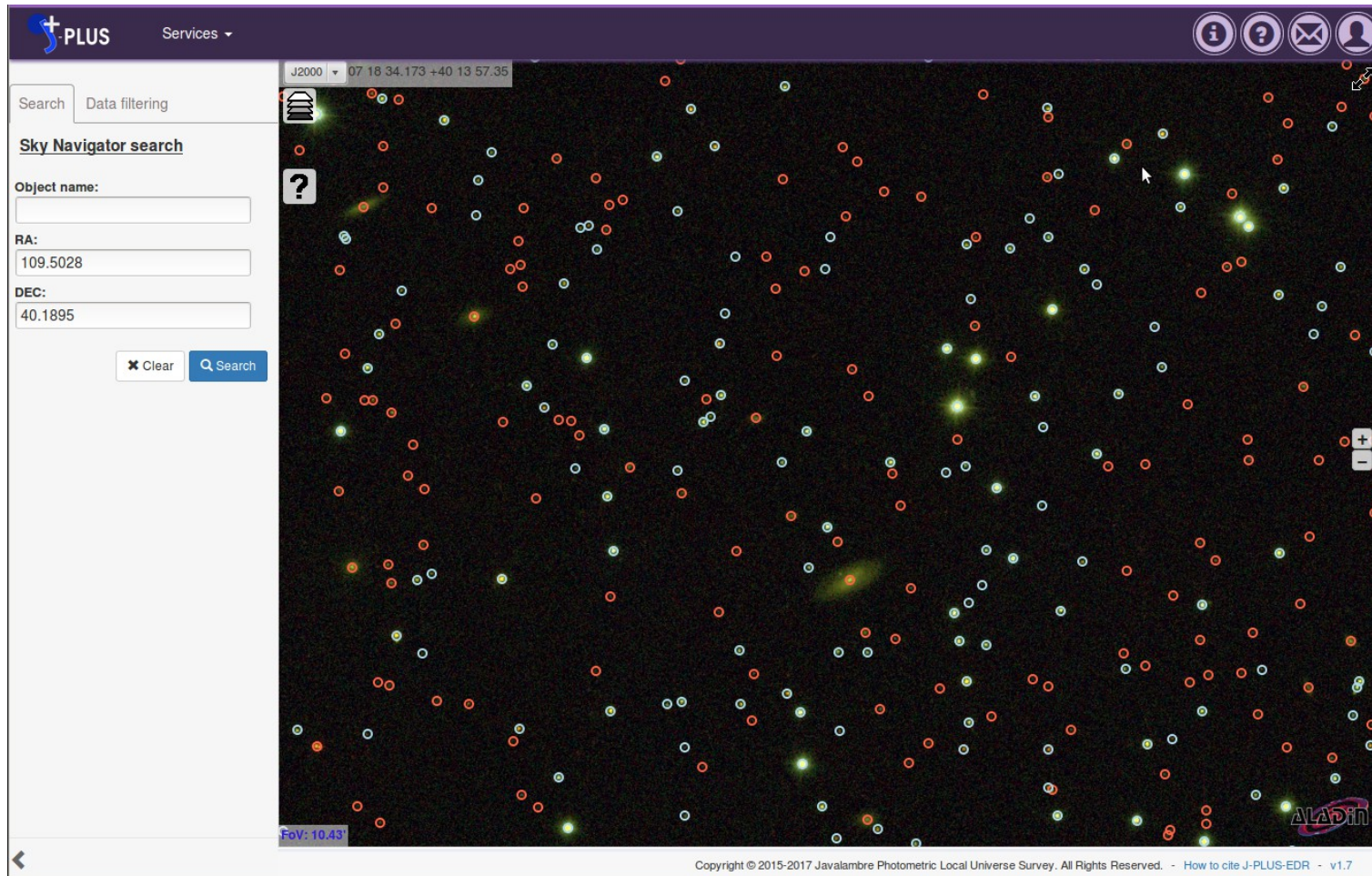


# Coverage Map





# Sky Navigator (I)





# Sky Navigator (II)

The screenshot displays the J-PLUS Sky Navigator web interface. The main view is a star field with objects colored by magnitude and type. A settings panel on the left allows filtering by object class, galaxy/star threshold, color, magnitude, and photo redshift. A central panel shows the base image layer (JPLUS-EDR) and overlay layers (J-PLUS-EDR catalog, Reticule, HEALPix grid). The bottom right corner features the ALADIN logo and a copyright notice.

**Search** **Data filtering**

**Sky Navigator filters**

Object class:

Galaxy/Star threshold:  Galaxy Star

Colour:

Magnitude (AB) limits:

Photo Redshift:

J2000 07 19 0.952 +40 12 24.23

Base image layer: JPLUS-EDR

Color map:

Overlay layers: ☒ J-PLUS-EDR catalog ☐ Reticule ☐ HEALPix grid

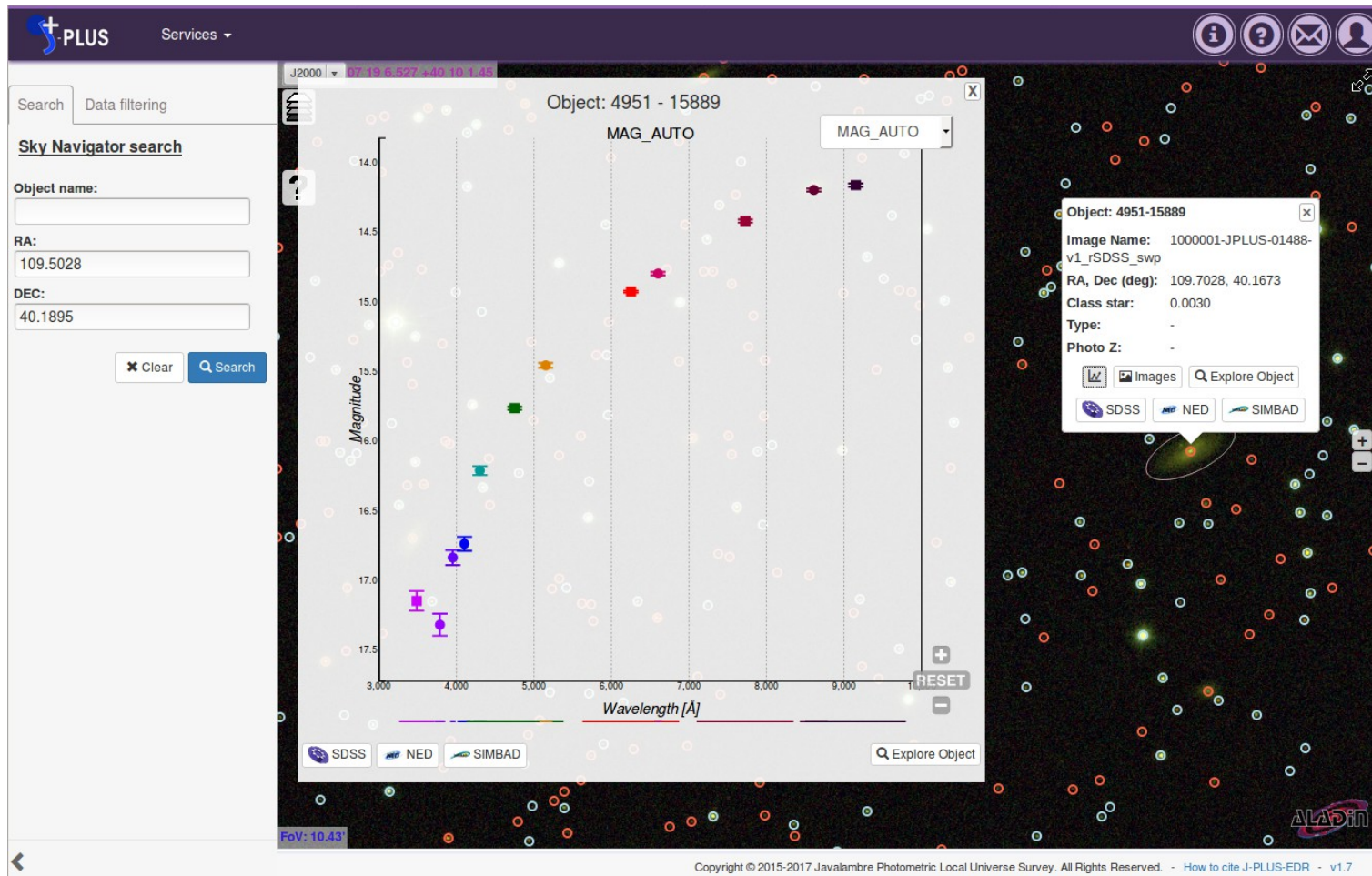
Tools:

ALADIN

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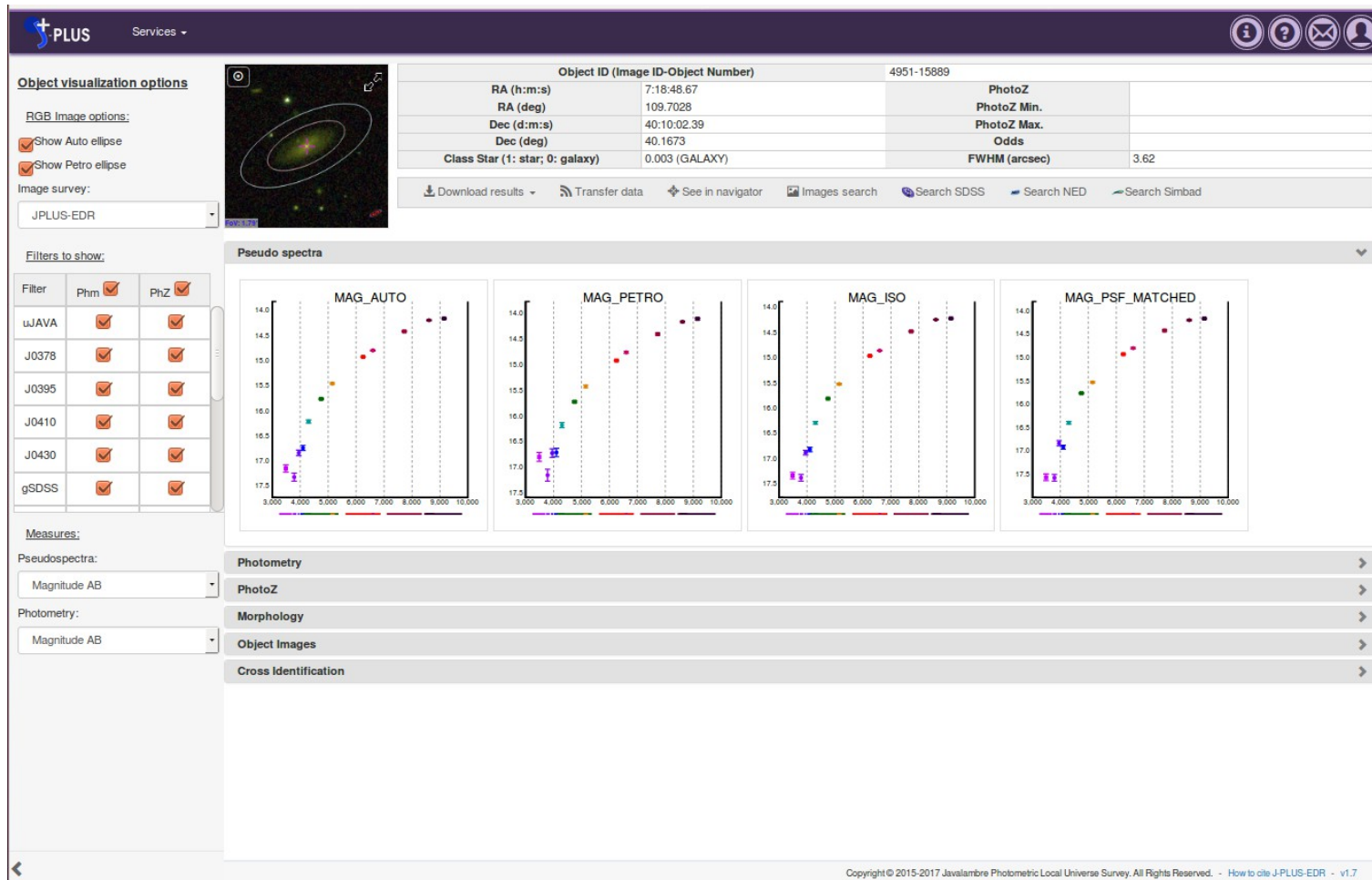


# Sky Navigator (III)





# Object visualization (I)





# Object visualization (II)

**Object visualization options**

RGB Image options:

☒ Show Auto ellipse

☒ Show Petro ellipse

Image survey:  
JPLUS-EDR

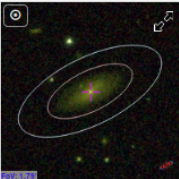
Filters to show:

Filter	Phm	PhZ
uJAVA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0378	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0395	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0410	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0430	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
gSDSS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Measures:

Pseudo spectra:  
Magnitude AB

Photometry:  
Magnitude AB



Object ID (Image ID-Object Number)4951-15889

RA (h:m:s)	7:18:48.67	PhotoZ	
RA (deg)	109.7028	PhotoZ Min.	
Dec (d:m:s)	40:10:02.39	PhotoZ Max.	
Dec (deg)	40.1673	Odds	
Class Star (1: star; 0: galaxy)	0.003 (GALAXY)	FWHM (arcsec)	3.62

[Download results](#) [Transfer data](#) [See in navigator](#) [Images search](#) [Search SDSS](#) [Search NED](#) [Search Simbad](#)

Pseudo spectra

Photometry

Filter	Flags	Mag auto			Mag iso		Mag petro		Mag PSF matched		Mag aper 0.8		Mag aper 1.
		Value	Error		Value	Error	Value	Error	Value	Error	Value	Error	
uJAVA	0	17.1458	0.0707		17.3338	0.0663	16.7966	0.0865	17.5645	0.0730	22.8399	0.4665	22.3922
J0378	0	17.3174	0.0793		17.3759	0.0662	17.1540	0.1146	17.5748	0.0706	23.3106	0.6616	22.7973
J0395	0	16.8343	0.0541		16.8761	0.0446	16.7222	0.0819	16.8343	0.0551	22.5339	0.4056	22.0802
J0410	0	16.7355	0.0503		16.8167	0.0430	16.7108	0.0825	16.9194	0.0435	22.7947	0.5240	22.1987
J0430	0	16.2097	0.0314		16.2881	0.0270	16.1754	0.0508	16.3927	0.0287	21.5626	0.2101	21.1531
gSDSS	0	15.7608	0.0119		15.8087	0.0101	15.7200	0.0186	15.7608	0.0157	20.6710	0.0832	20.2510
J0515	0	15.4538	0.0178		15.5199	0.0153	15.4194	0.0282	15.5270	0.0174	20.5184	0.1322	20.0633
rSDSS	0	14.9240	0.0073		14.9615	0.0062	14.9156	0.0116	14.9240	0.0114	19.7123	0.0538	19.2908
J0660	0	14.7941	0.0117		14.8577	0.0102	14.7543	0.0182	14.7941	0.0156	19.5428	0.0817	19.1223
iSDSS	0	14.4163	0.0116		14.4778	0.0100	14.3994	0.0186	14.4163	0.0155	19.1552	0.0742	18.7402
J0861	0	14.1935	0.0103		14.2450	0.0088	14.1594	0.0164	14.1935	0.0146	18.9048	0.0619	18.4801
zSDSS	0	14.1586	0.0120		14.2202	0.0102	14.1013	0.0189	14.1583	0.0134	18.6475	0.0514	18.2517

PhotoZ

Morphology

Object Images

Cross Identification

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# Object visualization (III)

The screenshot displays the J-PLUS web interface for object visualization. The interface is divided into several sections:

- Header:** Includes the J-PLUS logo, a "Services" dropdown menu, and user icons (info, help, mail, profile) on the right.
- Object visualization options:** A sidebar on the left containing:
  - RGB Image options:** Checkboxes for "Show Auto ellipse" and "Show Petro ellipse", both checked.
  - Image survey:** A dropdown menu set to "JPLUS-EDR".
  - Filters to show:** A table with columns for "Filter", "Phm", and "PhZ".
  - Measures:** Sections for "Pseudospectra" (set to "Magnitude AB") and "Photometry" (set to "Magnitude AB").
- Morphology / Object Images:** The main panel showing a grid of galaxy images. Above the grid are links for "Download png cutouts" and "Download fits cutouts", and a "FoV" slider with an "Apply" button.
- Grid of Images:** Ten panels showing galaxy images with different filters: uJAVA, J0378, J0395, J0410, J0430, gSDSS, J0515, rSDSS, J0660, iSDSS, J0861, and zSDSS. Each panel includes a small coordinate label at the bottom left (e.g., 107.63°).
- Cross Identification:** A section at the bottom of the main panel.
- Footer:** Copyright notice: "Copyright © 2015-2017 Javalambre Photometric Local Universe Survey. All Rights Reserved. - [How to cite J-PLUS-EDR](#) - v1.7".



# Object visualization (IV)

**Object visualization options**

**RGB Image options:**  
☒ Show Auto ellipse  
☒ Show Petro ellipse  
Image survey:  
JPLUS-EDR  
Filters to show:  

Filter	Phm	PhZ
uJAVA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0378	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0395	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0410	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0430	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
gSDSS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
J0515	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Measures:**  
Pseudospectra:  
Magnitude AB  
Photometry:  
Magnitude AB

Catalog	r	RAJ2000	DEJ2000	USNO-B1.0	RAJ2000	DEJ2000	e_RAJ2000
J0660	0	14.7941	0.0117	14.8577	0.0102	14.7543	0.0182
iSDSS	0	14.4163	0.0116	14.4778	0.0100	14.3994	0.0186
J0861	0	14.1935	0.0103	14.2450	0.0088	14.1594	0.0164
zSDSS	0	14.1586	0.0120	14.2202	0.0102	14.1013	0.0189

**PhotoZ**  
**Morphology**  
**Object Images**  
**Cross Identification**

**Catalog:** USNO-B1\_0 **Download results** **Reload search**

Catalog	r	RAJ2000	DEJ2000	USNO-B1.0	RAJ2000	DEJ2000	e_RAJ2000
USNO-B1_0	0.301	109.702862	+40.167275	1301-0175851	109.702862	+40.167275	104
USNO-B1_0	0.973	109.703112	+40.167239	1301-0175852	109.703112	+40.167239	313

Catalog	r	RAJ2000	DEJ2000	RAJ2000	DEJ2000	2MASS	Jmag
2MASS	0.276	109.702829	+40.167263	109.702829	+40.167263	07184867+4010021	14.570

Catalog	r	RAJ2000	DEJ2000	ALLWISE	RAJ2000	DEJ2000	Im
WISE	0.229	109.7028186	+40.1672733	J071848.67+401002.1	109.7028186	+40.1672733	Im

No data found for this object in 'FIRST' catalog.

Catalog	r	RAJ2000	DEJ2000	mode	q_mode	cl	SDSS9
SDSS_9	0.324	109.702849	+40.167257	1	+	3	J071848.68+401002.1
SDSS_9	0.322	109.702859	+40.167264	2		3	J071848.68+401002.1

No data found for this object in 'ROSAT' catalog.

No data found for this object in 'GALEX-DR5\_AIS' catalog.

No data found for this object in 'GAIA-DR1' catalog.


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# Cone Search

 Services ▾



☒ Select all ☐ Select none  Show selected in list  Download results ▾  Transfer data  Show magnitude table  About fields

### Cone Search Options

Object name:

RA:

DEC:


Radius:  
  
10 arcsec.

Colour:  
[+ Add condition](#)

Magnitude (AB) limits:  
[+ Add condition](#)

Photo Redshift:  
 ≤  $z$  ≤   
[✕ Clear](#) [🔍 Search](#)


Objects found: 1 (0.003sec.).

		Image ID	Object Number	$\Delta$ (arcsec)	RA	DEC	Flux Auto (rSDSS)	$\sigma$ (Flux Auto) (rSDSS)	Class Star (1: star)	A World (deg)	B World (deg)	Theta World (deg)
<input type="checkbox"/>		4951	15889	0.1200	109.7028	40.1673	38939.2031	261.8661	0.0030	0.002189	0.000926	-26.3901

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# Object List Search (I)

 Services ▾

Search

Data

Image

Spectra

Object list search

109.7222 40.3962  
109.6920 40.3856  
109.6751 40.3434  
109.6321 40.3097  
110.1235 39.6974  
110.2252 40.6834  
109.5416 40.6926  
109.5884 40.5108  
110.1167 40.23105  
110.22740 40.14428  
115.7580 41.1153

✕ Clear

🔍 Search

Note: Every time you click on the search button, only the first 20 objects will be searched. If you want to submit more in a single search, you can use 'import search' tool and import them from a text file.

🔍 Select all

🔍 Select none

✕ Delete selected

📄 Scripts FITS download ▾

📄 Download results ▾

📄 Export search

📄 Import search

📡 Transfer data

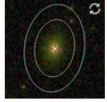
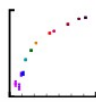
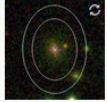
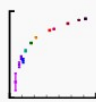
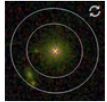
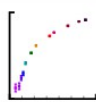
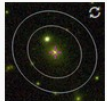
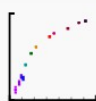

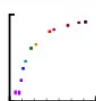

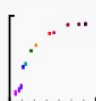
Objects data

Objects Images


Objects Pseudospectra

About fields

Search:

		Tile_id - Number	RA	DEC	Mag_Iso-rSDSS	Mag_Iso_Error-rSDSS	Image	Pseudospectrum
<input type="checkbox"/>	✕	<a href="#">4951 - 20977</a>	7:18:53.32	40:23:46.48	15.5030	0.0078		
<input type="checkbox"/>	✕	<a href="#">4951 - 20692</a>	7:18:46.09	40:23:08.07	16.2498	0.0123		
<input type="checkbox"/>	✕	<a href="#">4951 - 19635</a>	7:18:42.03	40:20:36.29	16.0138	0.0103		
<input type="checkbox"/>	✕	<a href="#">4951 - 19164</a>	7:18:31.7	40:18:34.79	15.0099	0.0068		
<input type="checkbox"/>	✕	<a href="#">4951 - 5210</a>	7:20:29.65	39:41:50.81	15.1397	0.0045		
<input type="checkbox"/>	✕	<a href="#">4951 - 24302</a>	7:20:54.05	40:41:00.13	16.8948	0.0121		

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# Object List Search (II)

**J-PLUS** Services

Search Data Image Spectra

Select all Select none Delete selected Scripts FITS download Download results Export search Import search Transfer data

**Objects data options**

Visible columns:

6 of 29 selected

- ☐ B\_World
- ☐ B\_World\_Error
- ☐ Chi2
- ☐ Class\_Star
- ☒ DEC
- ☐ Delta\_J2000
- ☐ FWHM
- ☒ Image
- ☐ Irms\_flag

Objects data Objects Images Objects Pseudospectra About fields

Search:

		Tile_id - Number	RA	DEC	Mag_Iso+SDSS	Mag_Iso_Error+SDSS	Image	Pseudospectrum
<input type="checkbox"/>	✕	<a href="#">Q 4951 - 20977</a>	7:18:53.32	40:23:46.48	15.5030	0.0078		
<input type="checkbox"/>	✕	<a href="#">Q 4951 - 20692</a>	7:18:46.09	40:23:08.07	16.2498	0.0123		
<input type="checkbox"/>	✕	<a href="#">Q 4951 - 19635</a>	7:18:42.03	40:20:36.29	16.0138	0.0103		
<input type="checkbox"/>	✕	<a href="#">Q 4951 - 19164</a>	7:18:31.7	40:18:34.79	15.0099	0.0068		
<input type="checkbox"/>	✕	<a href="#">Q 4951 - 5210</a>	7:20:29.65	39:41:50.81	15.1397	0.0045		
<input type="checkbox"/>	✕	<a href="#">Q 4951 - 24302</a>	7:20:54.05	40:41:00.13	16.8948	0.0121		

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# Object List Search (III)

PLUS Services

Search Data Image Spectra

Objects images options

- ☒ Show Auto ellipse
- ☒ Show Petro ellipse
- ☒ Show Reticle

Image survey: JPLUS-EDR

General FoV:

Set all images to selected FoV

☒ Set default image view

☒ Copy images to data table

Select all Select none Delete selected Scripts FITS download Download results Export search Import search Transfer data

Objects data Objects Images Objects Pseudospectra About fields

Tile\_id - Number: 4951 - 20977 ☐

Tile\_id - Number: 4951 - 20692 ☐

Tile\_id - Number: 4951 - 19635 ☐

Tile\_id - Number: 4951 - 19164 ☐

Tile\_id - Number: 4951 - 5210 ☐

Tile\_id - Number: 4951 - 24302 ☐

Tile\_id - Number: 4951 - 24158 ☐

Tile\_id - Number: 4951 - 28245 ☐

Tile\_id - Number: 4951 - 16999 ☐

Tile\_id - Number: 4951 - 15043 ☐

Tile\_id - Number: 4954 - 4508 ☐

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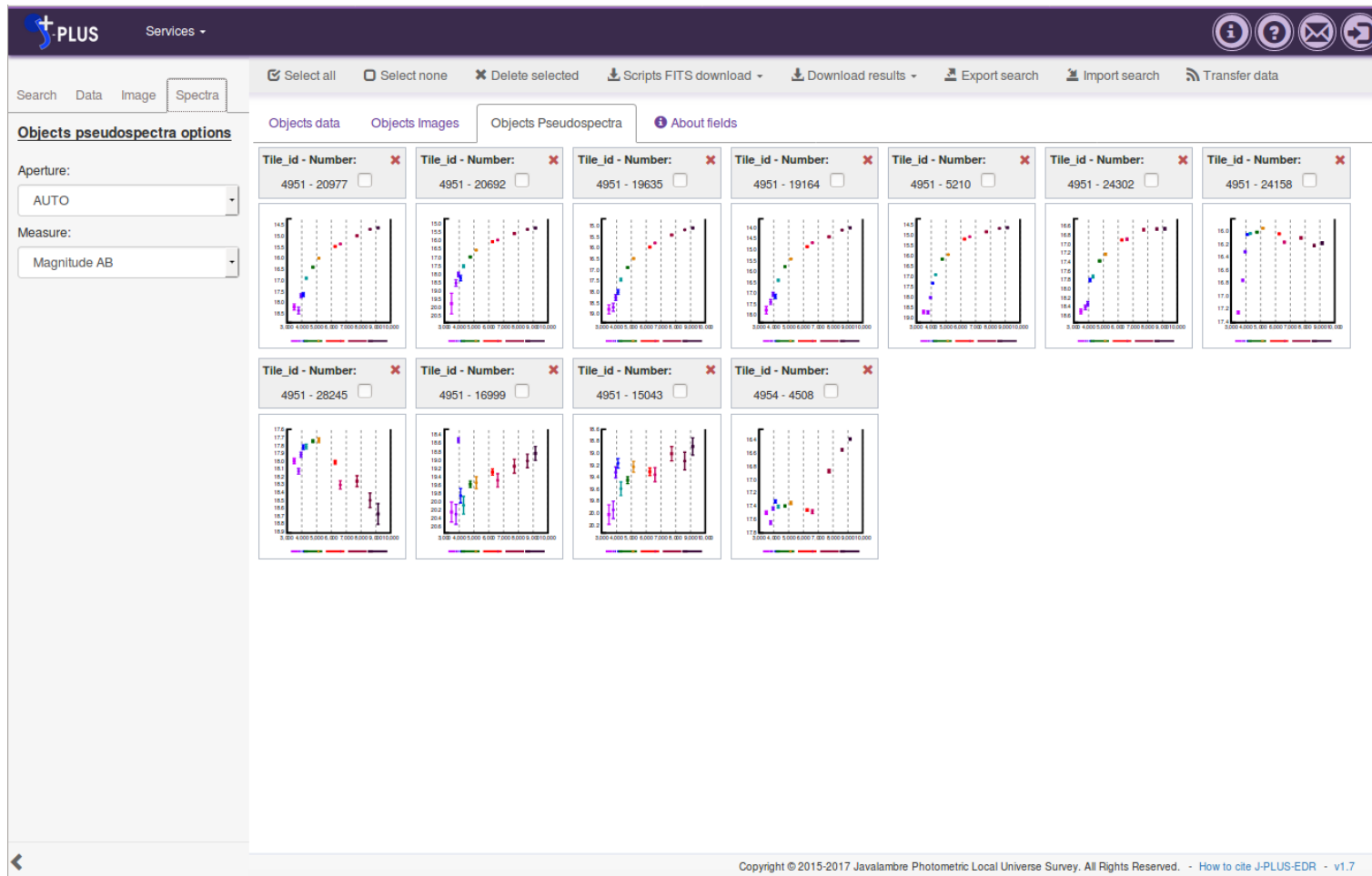


# Object List Search (IV)

The screenshot displays the J-PLUS web interface. A modal dialog box titled "Generate WGET script to download FITS cutouts" is open in the center. The dialog contains two sections: "Select the filters of the FITS cutouts to download:" with a dropdown menu showing "gSDSS, zSDSS", and "Select the FoV of the FITS cutouts:" with a dropdown menu showing "Default FoV optimized for each object". At the bottom of the dialog are "Download script" and "Cancel" buttons. The background interface shows a sidebar with "Search", "Data", "Image", and "Spectra" tabs. Under the "Image" tab, there are checkboxes for "Show Auto ellipse", "Show Petro ellipse", and "Show Reticle", all of which are checked. Below these is the "Image survey:" dropdown set to "JPLUS-EDR". A "General FoV:" slider is also visible. The main panel shows a grid of astronomical images with their respective "Tile\_id - Number:" labels. At the bottom right, a copyright notice reads: "Copyright © 2015-2017 Javalambre Photometric Local Universe Survey. All Rights Reserved. - How to cite J-PLUS-EDR - v1.7".



# Object List Search (V)





# V.O. Services

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- Services based in protocols defined by Virtual Observatory (V.O.).
- Retrieve data and images using V.O. Compatible applications like TOPCAT, Aladin, ...
- Services:
  - SCS Simple Cone Search
  - SIAP Simple Image Access Protocol
  - SSAP Simple Spectral Access Protocol
  - TAP Table Access Protocol:
    - V.O. Asynchronous queries (ADQL) service



# User feedback

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- **Please send bug reports, questions and comments:**
  - Writing e-mail to: [j-plus@cefca.es](mailto:j-plus@cefca.es)
  - Filling contact form: <http://www.j-plus.es/contact>