

Palomar Transient Factory Archive Graphical User Interface Search and Retrieval Basics



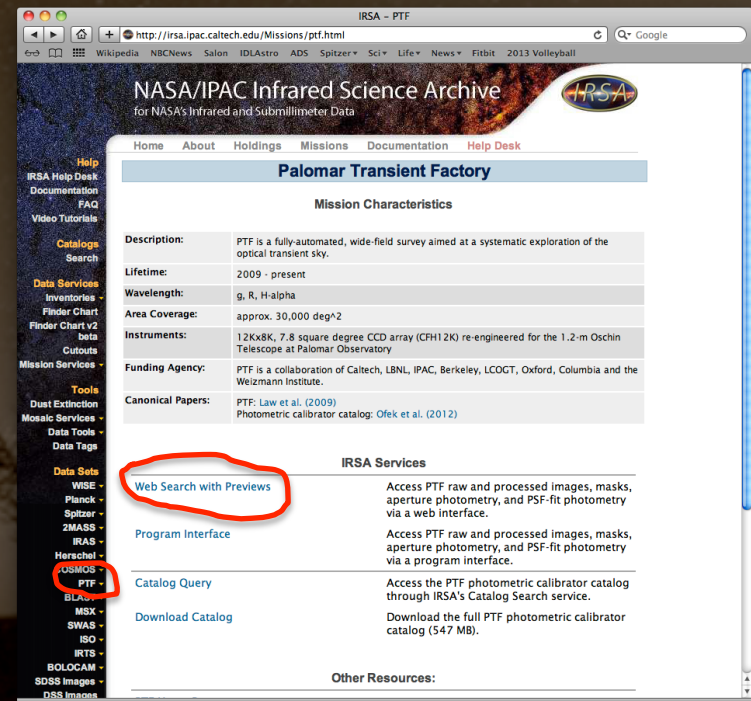
The primary portal to PTF data is through a graphical user interface maintained by the Infrared Science Archive (IRSA) at the Infrared Processing and Analysis Center (IPAC) at Caltech. This GUI is designed around a common interface used by multiple IPAC-supported projects, including Spitzer and WISE.

The GUI is useful for searches and downloads of small amounts of data. For very large data volumes the “IBE” scripted interface is more appropriate. The GUI is also very useful as a data discovery engine, since it allows you to quickly see what is available.

The direct URL is:

<http://irsa.ipac.caltech.edu/applications/ptf/>

You can also get there through the top level link on the IRSA web page.



The screenshot shows the IRSA website with the following content:

- Navigation Bar:** Home, About, Holdings, Missions, Documentation, Help Desk
- Section Header:** Palomar Transient Factory
- Mission Characteristics:**

Description:	PTF is a fully-automated, wide-field survey aimed at a systematic exploration of the optical transient sky.
Lifetime:	2009 - present
Wavelength:	g, r, H-alpha
Area Coverage:	approx. 30,000 deg ²
Instruments:	12Kx8K, 7.8 square degree CCD array (CFH12K) re-engineered for the 1.2-m Oschin Telescope at Palomar Observatory
Funding Agency:	PTF is a collaboration of Caltech, LBNL, IPAC, Berkeley, LCOGT, Oxford, Columbia and the Weizmann Institute.
Canonical Papers:	PTF: Law et al. (2009) Photometric calibrator catalog: Ofek et al. (2012)
- IRSA Services:**

Web Search with Previews	Access PTF raw and processed images, masks, aperture photometry, and PSF-fit photometry via a web interface.
Program Interface	Access PTF raw and processed images, masks, aperture photometry, and PSF-fit photometry via a program interface.
Catalog Query	Access the PTF photometric calibrator catalog through IRSA's Catalog Search service.
Download Catalog	Download the full PTF photometric calibrator catalog (547 MB).
- Other Resources:**

Left Sidebar:

- Help
 - IRSA Help Desk
 - Documentation
 - FAQ
 - Video Tutorials
- Catalogs
 - Search
- Data Services
 - Inventories
 - Finder Chart
 - Finder Chart v2 beta
 - Cutouts
- Mission Services
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 - 2MASS
 - IRAS
 - Herschel
 - COLOSSUS
 - PTF
 - BLA
 - MSX
 - SWAS
 - ISO
 - IRTS
 - COLOSSUS
 - SDSS Images
 - DSS Images

IRSA: PTF

http://irsa.ipac.caltech.edu/applications/ptf/

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Search by Position

Image Searches

- [Search by Position](#)
- [Search by PTF Field ID](#)
- [Solar System Object/Orbit](#)

Single Object **Multi-Object**

Name or Position: **NED**

Examples: 'm81' 'ngc 13' '12.34 34.89' '46.53, -0.251 gal'
'19h17m32s 11d58m02s equ j2000' '12.3, 8.5 b1950'

Example for PTF name resolver: 10fq5, 09ab

Search Type (Region Intersection): **Image contains target**

Return Image Size (leave blank for full images): **Arc Seconds**

Return only the most centered image containing the target: ☒ No ☐ Yes

Data Product Level: ☒ Level-1 Single Exposure ☐ Level-2 Coadd

Optional search constraints

[?](#)

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 1.7 Final, Built On: Mar 13 2014 09:08 AM PDT

If you are a collaboration member, log in here with your IRSA account. Otherwise, you will only see public data. For public users, this account is still useful because it will save your preferences. You can still search and retrieve data without logging in.

IRSA: PTF

http://irsa.ipac.caltech.edu/applications/ptf/

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Search by Position

Image Searches

- [Search by Position](#)
- [Search by PTF Field ID](#)
- [Solar System Object/Orbit](#)

Single Object **Multi-Object**

Name or Position:

m81 resolved by NED

148.88822, 69.06529 Equ J2000 or 9h55m33.17s, +69d03m55.0s Equ J2000

Example for PTF name resolver: 10fq5, 09ab

Search Type (Region Intersection):

Return Image Size (leave blank for full images):

Return only the most centered image containing the target: ☒ No ☐ Yes

Data Product Level: ☒ Level-1 Single Exposure ☐ Level-2 Coadd

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For a basic search, you can enter a name or a position here. Name resolution is primarily from NED and SIMBAD. For PTF object names (like PTF11eon) you can also set this name resolver to “PTF” and enter “11eon”.

IRSA: PTF

http://irsa.ipac.caltech.edu/applications/ptf/

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Search by Position

Image Searches

- [Search by Position](#)
- [Search by PTF Field ID](#)
- [Solar System Object/Orbit](#)

Single Object **Multi-Object**

File Name: upload_example.txt

Help on file format ?

Example for PTF name resolver: 10fq5, 09ab

Search Type (Region Intersection):

Return Image Size (leave blank for full images):

Return only the most centered image containing the target: ☒ No ☐ Yes

Data Product Level: ☒ Level-1 Single Exposure ☐ Level-2 Coadd

?

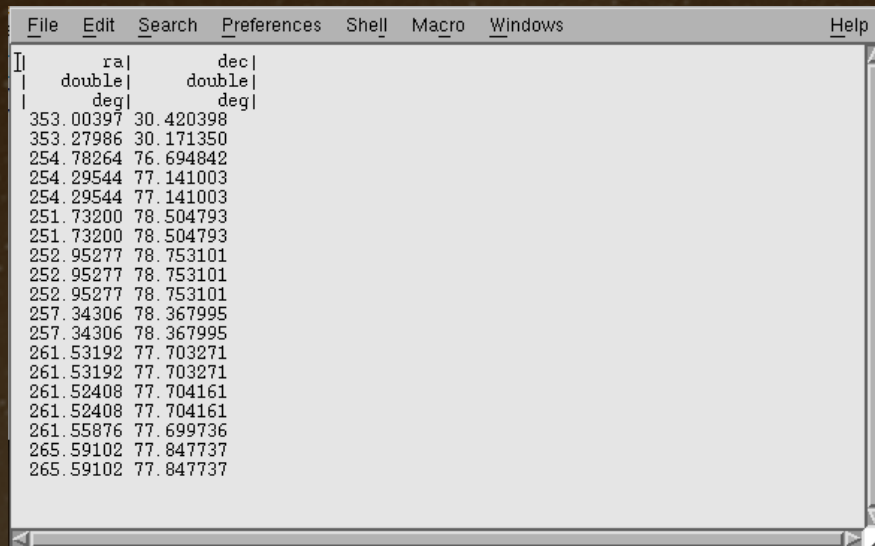
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For more advanced users, you can also perform a simultaneous multi-object search by uploading a text file. This file must be in the IPAC table format. Help is provided on-line by clicking on the question mark.



	ra	dec
	double	double
	deg	deg
353.00397	30.420398	
353.27986	30.171350	
254.78264	76.694842	
254.29544	77.141003	
254.29544	77.141003	
251.73200	78.504793	
251.73200	78.504793	
252.95277	78.753101	
252.95277	78.753101	
252.95277	78.753101	
257.34306	78.367995	
257.34306	78.367995	
261.53192	77.703271	
261.53192	77.703271	
261.52408	77.704161	
261.52408	77.704161	
261.55876	77.699736	
265.59102	77.847737	
265.59102	77.847737	

This is an IPAC table file. It is an ascii space-delimited format where pipe symbols in the header delineate the column locations. Users should consult the on-line help and in particular should use the on-line table validation tool. This will save a lot of headaches.

IRSA: PTF

http://irsa.ipac.caltech.edu/applications/ptf/

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Search by Position

Image Searches

- [Search by Position](#)
- [Search by PTF Field ID](#)
- [Solar System Object/Orbit](#)

Single Object Multi-Object

Name or Position:

m81 resolved by NED

148.88822, 69.06529 Equ J2000 or 9h55m33.17s, +69d03m55.0s Equ J2000

Example for PTF name resolver: 10fq5, 09ab

Search Type (Region Intersection):

Return Image Size (leave blank for full images):

Return only the most centered image containing the target: ☒ No ☐ Yes

Data Product Level: ☒ Level-1 Single Exposure ☐ Level-2 Coadd

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PTF images are very large. If you set a value here, the system will retrieve thumbnails, i.e. subregions cut out surrounding the target position. When studying specific objects, this is very useful. The thumbnails retain their astrometric and photometric calibration, so there is little downside to using them. Set this to blank for a full image.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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Search by Position

Image Searches

- [Search by Position](#)
- [Search by PTF Field ID](#)
- [Solar System Object/Orbit](#)

Single Object Multi-Object

Name or Position:

m81 resolved by NED

148.88822, 69.06529 Equ J2000 or 9h55m33.17s, +69d03m55.0s Equ J2000

Example for PTF name resolver: 10fq5, 09ab

Search Type (Region Intersection):

Return Image Size (leave blank for full images):

Return only the most centered image containing the target: ☒ No ☐ Yes

Data Product Level: ☒ Level-1 Single Exposure ☐ Level-2 Coadd

?

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Level-1 products are data derived from single individual exposures. Level-2 products are derived from combining Level-1 data (for example, coadded images). Only Level-1 products are publicly available at this time.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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Search by Position

Image Searches

- [Search by Position](#)
- [Search by PTF Field ID](#)
- [Solar System Object/Orbit](#)

Single Object Multi-Object

Name or Position: m82 NED

m82 resolved by NED

148.96969, 69.67938 Equ J2000 or 9h55m52.73s, +69d40m45.8s Equ J2000

Example for PTF name resolver: 10fq5, 09ab

Search Type (Region Intersection): Image contains target

Return Image Size (leave blank for full images): 900 Arc Seconds

Return only the most centered image containing the target: ☒ No ☐ Yes

Data Product Level: ☒ Level-1 Single Exposure ☐ Level-2 Coadd

Optional search constraints

Search Clear ?

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Let's do a basic search. The starburst galaxy M82 is in the publicly released data. I've used NED to resolve the galaxy coordinates. I've asked for a 900 arcsecond cutout around the target center. Press the "Search" button to actually initiate the search.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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► **Search by Position** m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

☐	expid	obsdate	crval1	crval2	filter	ccid	ptffield
☐	8008	2009-03-31 03:34:46.229000	148.9873	69.7846	G	2	10003
☐	9154	2009-04-01 04:45:59.979000	149.1549	69.9854	G	2	10003
☐	9130	2009-04-01 06:52:01.779000	148.6094	69.6941	G	2	10003
☐	9890	2009-03-26 06:10:56.528000	148.6095	69.6940	G	2	10003
☐	9756	2009-03-26 09:07:07.178000	148.6095	69.6940	G	2	10003
☐	10273	2009-03-20 06:43:27.129000	149.1548	69.9855	G	2	10003
☐	10123	2009-03-20 09:17:36.278000	148.6571	69.9784	G	2	10003
☐	10544	2009-03-21 06:41:54.128000	148.6574	69.9783	G	2	10003
☐	10354	2009-03-21 09:01:44.728000	148.6095	69.6941	G	2	10003
☐	10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2	10003
☐	10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2	10003
☐	10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2	10003
☐	10904	2009-03-17 10:31:35.628000	148.3569	69.7967	R	2	10003
☐	41022	2009-09-21 12:20:52.317000	149.7132	69.0665	R	2	10003
☐	41124	2009-09-22 12:39:34.267000	149.4395	69.9170	R	2	10003
☐	41909	2009-10-03 10:42:51.062000	149.2203	69.9149	R	2	10003
☐	42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☐	42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☐	43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☐	43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☐	43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☐	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Image Preview Coverage

PTF Image 1x

Here are the results. There are 1149 images matching the query parameters. The table lists them in time order. The table has many columns, some of which are not of immediate use to users. Let's review some of the more useful.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

☐ expid	☐ obsdate	crval1	crval2	filter	ccid	ptffield
☐ 8008	2009-03-31 03:34:46.229000	148.9873	69.7846	G	2	10003
☐ 9154	2009-04-01 04:45:59.979000	149.1549	69.9854	G	2	10003
☐ 9130	2009-04-01 06:52:01.779000	148.6094	69.6941	G	2	10003
☐ 9890	2009-03-26 06:10:56.528000	148.6095	69.6940	G	2	10003
☐ 9756	2009-03-26 09:07:07.178000	148.6095	69.6940	G	2	10003
☐ 10273	2009-03-20 06:43:27.129000	149.1548	69.9855	G	2	10003
☐ 10123	2009-03-20 09:17:36.278000	148.6571	69.9784	G	2	10003
☐ 10544	2009-03-21 06:41:54.128000	148.6574	69.9783	G	2	10003
☐ 10354	2009-03-21 09:01:44.728000	148.6095	69.6941	G	2	10003
☐ 10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2	10003
☐ 10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2	10003
☐ 10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2	10003
☐ 10904	2009-03-17 10:31:35.628000	148.3569	69.7967	R	2	10003
☐ 41022	2009-09-21 12:20:52.317000	149.7132	69.0665	R	2	10003
☐ 41124	2009-09-22 12:39:34.267000	149.4395	69.9170	R	2	10003
☐ 41909	2009-10-03 10:42:51.062000	149.2203	69.9149	R	2	10003
☐ 42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☐ 42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☐ 43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☐ 43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☐ 43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☐ 44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐ 44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Image Preview Coverage

PTF Image 1x

For a synoptic survey like PTF, obviously the observation data and time are important! By default the results are time-sorted. You can sort on other columns by clicking on their names.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) Text Save Filters

☐	expid	obsdate	crval1	crval2	filter	ccid	ptffield
☐	8008	2009-03-31 03:34:46.229000	148.9873	69.7849	G	2	10003
☐	9154	2009-04-01 04:45:59.979000	149.1549	69.9854	G	2	10003
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☐	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Image Preview Coverage

PTF Image 1x

CRVAL1/2 are the centers of the parent image. These are actually not all that interesting, since the archive already found the data you wanted, and cut out the useful part.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

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☐	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Image Preview Coverage

PTF Image 1x

You probably care about the filter. Publicly available data is taken either in R-band or g-band.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

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☐	expid	obsdate	crval1	crval2	filter	ccd ^{id}	ptffield
☐	8008	2009-03-31 03:34:46.229000	148.9873	69.7846	G	1	10003
☐	9154	2009-04-01 04:45:59.979000	149.1549	69.9854	G	2	10003
☐	9130	2009-04-01 06:52:01.779000	148.6094	69.6941	G	2	10003
☐	9890	2009-03-26 06:10:56.528000	148.6095	69.6940	G	2	10003
☐	9756	2009-03-26 09:07:07.178000	148.6095	69.6940	G	2	10003
☐	10273	2009-03-20 06:43:27.129000	149.1548	69.9855	G	2	10003
☐	10123	2009-03-20 09:17:36.278000	148.6571	69.9784	G	2	10003
☐	10544	2009-03-21 06:41:54.128000	148.6574	69.9783	G	2	10003
☐	10354	2009-03-21 09:01:44.728000	148.6095	69.6941	G	2	10003
☐	10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2	10003
☐	10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2	10003
☐	10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2	10003
☐	10904	2009-03-17 10:31:35.628000	148.3569	69.7967	R	2	10003
☐	41022	2009-09-21 12:20:52.317000	149.7132	69.0665	R	2	10003
☐	41124	2009-09-22 12:39:34.267000	149.4395	69.9170	R	2	10003
☐	41909	2009-10-03 10:42:51.062000	149.2203	69.9149	R	2	10003
☐	42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☐	42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☐	43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☐	43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☐	43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☐	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Image Preview Coverage

PTF Image 1x

You might also care about the CCDID. This tells you which of the 11 CCDs in the PTF camera your target fell on. PTF treats all the CCDs as wholly separate.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

IRSA NASA / IPAC Infrared Science Archive

IRSA Missions Archive Search Tools & Services Help

Searches History Preferences Help Catalogs Plot Layers Background Monitor

► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

filter	ccdid	ptffield	seeing	airmass	moonillf	moonesb	photcalflag	infobits	nid
G	2	100037	2.8900	1.2700	0.2300	-0.5200	0	0	
G	2	100037	2.8900	1.2300	0.3400	-0.9000	0	0	
G	2	100037	2.7700	1.2800	0.3500	-0.9400	0	0	
G	2	100037	2.7900	1.2400	-0.0000	0.0000	0	0	
G	2	100037	3.3000	1.4500	-0.0000	0.0000	0	0	
G	2	100037	2.1600	1.2400	-0.3600	0.0000	0	0	
G	2	100037	2.2000	1.4200	-0.3500	0.0000	0	0	
G	2	100037	2.1100	1.2400	-0.2700	0.0000	1	0	
G	2	100037	2.2000	1.4000	-0.2600	0.0000	1	0	
R	2	100037	2.4200	1.3300	-0.6500	0.0000	0	0	
R	2	100037	2.2000	1.2300	-0.6400	0.0000	0	0	
R	2	100037	1.9300	1.2700	-0.6400	0.0000	0	0	
R	2	100037	1.9900	1.5700	-0.6200	-1.7300	0	0	
R	2	100037	2.5800	1.7800	0.0900	0.0000	1	0	
R	2	100037	2.6700	1.7000	0.1700	0.0000	1	0	
R	2	100037	3.1400	2.0200	0.9900	-3.2900	0	0	
R	2	100037	2.3900	1.6100	-0.6000	-1.8900	0	0	
R	2	100037	2.2600	1.4400	-0.6000	-1.8500	0	0	
R	2	100037	2.6600	1.4000	-0.0400	-0.0600	0	0	
R	2	100037	2.4600	1.6000	0.1800	0.0000	1	0	
R	2	100037	2.4500	1.4300	0.1900	0.0000	1	0	
R	2	100037	2.4600	2.0300	-1.0000	-3.4200	0	0	
R	2	100037	2.4600	1.7400	-1.0000	-3.3800	0	0	

Image Preview Coverage

PTF Image 1x

The PTF FieldID is the specific tile (pointing center) this exposure was using. Any given point on the sky might be covered by any number of tiles with different centers. At least some are used to dither the inter-CCD gaps, others are a result of different programs observing this location.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerReque Google

IRSA NASA / IPAC Infrared Science Archive

IRSA Missions Archive Search Tools & Services Help

Searches History Preferences Help Catalogs Plot Layers Background Monitor

► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

filter	ccid	ptffield	seeing	airmass	moonllf	moonesb	photcalflag	infobits	nid
G	2	100037	2.6300	1.2700	0.2300	-0.5200	0	0	
G	2	100037	2.8900	1.2300	0.3400	-0.9000	0	0	
G	2	100037	2.7700	1.2800	0.3500	-0.9400	0	0	
G	2	100037	2.7900	1.2400	-0.0000	0.0000	0	0	
G	2	100037	3.3000	1.4500	-0.0000	0.0000	0	0	
G	2	100037	2.1600	1.2400	-0.3600	0.0000	0	0	
G	2	100037	2.2000	1.4200	-0.3500	0.0000	0	0	
G	2	100037	2.1100	1.2400	-0.2700	0.0000	1	0	
G	2	100037	2.2000	1.4000	-0.2600	0.0000	1	0	
R	2	100037	2.4200	1.3300	-0.6500	0.0000	0	0	
R	2	100037	2.2000	1.2300	-0.6400	0.0000	0	0	
R	2	100037	1.9300	1.2700	-0.6400	0.0000	0	0	
R	2	100037	1.9900	1.5700	-0.6200	-1.7300	0	0	
R	2	100037	2.5800	1.7800	0.0900	0.0000	1	0	
R	2	100037	2.6700	1.7000	0.1700	0.0000	1	0	
R	2	100037	3.1400	2.0200	0.9900	-3.2900	0	0	
R	2	100037	2.3900	1.6100	-0.6000	-1.8900	0	0	
R	2	100037	2.2600	1.4400	-0.6000	-1.8500	0	0	
R	2	100037	2.6600	1.4000	-0.0400	-0.0600	0	0	
R	2	100037	2.4600	1.6000	0.1800	0.0000	1	0	
R	2	100037	2.4500	1.4300	0.1900	0.0000	1	0	
R	2	100037	2.4600	2.0300	-1.0000	-3.4200	0	0	
R	2	100037	2.4600	1.7400	-1.0000	-3.3800	0	0	

Image Preview Coverage

PTF Image 1x

Seeing and airmass are also likely to be very useful for screening out non-useful data. There are many other columns also here, but these have been the most interesting.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

Science Archive

Services Help

Plot Layers Background Monitor

PTF Image

Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

expid	obsdate	crval1	crval2	filter	ccid	ptffiel
☐	8008	2009-03-31 03:34:46.229000	148.9873	69.7846	G	2 100
☐	9154	2009-04-01 04:45:59.979000	149.1549	69.9854	G	2 100
☐	9130	2009-04-01 06:52:01.779000	148.6094	69.6941	G	2 100
☐	9890	2009-03-26 06:10:56.528000	148.6095	69.6940	G	2 100
☒	9756	2009-03-26 09:07:07.178000	148.6095	69.6940	G	2 100
☐	10273	2009-03-20 06:43:27.129000	149.1548	69.9855	G	2 100
☐	10123	2009-03-20 09:17:36.278000	148.6571	69.9784	G	2 100
☐	10544	2009-03-21 06:41:54.128000	148.6574	69.9783	G	2 100
☐	10354	2009-03-21 09:01:44.728000	148.6095	69.6941	G	2 100
☐	10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2 100
☐	10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2 100
☐	10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2 100
☐	10904	2009-03-17 10:31:35.678000	148.3569	69.7967	R	2 100
☐	41022	2009-09-21 12				
☐	41124	2009-09-22 12				
☐	41909	2009-10-03 10				
☐	42461	2009-10-10 11				
☐	42471	2009-10-10 12				
☐	43010	2009-10-16 12				
☐	43646	2009-10-22 11				
☐	43629	2009-10-22 12				
☐	44673	2009-11-03 08				
☐	44656	2009-11-03 09				

FITS Header: PTF Image

Pixel Size: 1.01" File Size: 3.1M

#	Keyword	Value	Comments
0	SIMPLE	T	Java FITS: Tue Apr 29 17:04:19 PDT 2014
1	BITPIX	-32	
2	NAXIS	2	STANDARD FITS FORMAT
3	NAXIS1	909	
4	NAXIS2	909	
5	EXTEND	T	Extensions are permitted
6	ORIGIN	Palomar Transient F	Origin of these image data
7	CREATOR	Infrared Processing	Creator of this FITS file

Image Preview Coverage

PTF Image 1x, North

The image pane is “live”, by the way. Click on any entry in the table to bring up a live image view. It can be scrolled, zoomed, etc. Click on the toolbox to bring up display tools.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest

IRSA NASA / IPAC Infrared

IRSA Missions Archive Search To

Searches History Preferences Help Catalog

Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

☐	expid	obsdate	crval1	crval2	filter	ccid	ptffield
☐	8008	2009-03-31 03:34:46.229000	148.9873	69.7846	G	2	10003
☐	9154	2009-04-01 04:45:59.979000	149.1549	69.9854	G	2	10003
☐	9130	2009-04-01 06:52:01.779000	148.6094	69.6941	G	2	10003
☐	9890	2009-03-26 06:10:56.528000	148.6095	69.6940	G	2	10003
☒	9756	2009-03-26 09:07:07.178000	148.6095	69.6940	G	2	10003
☐	10273	2009-03-20 06:43:27.129000	149.1548	69.9855	G	2	10003
☐	10123	2009-03-20 09:17:36.278000	148.6571	69.9784	G	2	10003
☐	10544	2009-03-21 06:41:54.128000	148.6574	69.9783	G	2	10003
☐	10354	2009-03-21 09:01:44.728000	148.6095	69.6941	G	2	10003
☐	10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2	10003
☐	10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2	10003
☐	10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2	10003
☐	10904	2009-03-17 10:31:35.628000	148.3569	69.7967	R	2	10003
☐	41022	2009-09-21 12:20:52.317000	149.7132	69.0665	R	2	10003
☐	41124	2009-09-22 12:39:34.267000	149.4395	69.9170	R	2	10003
☐	41909	2009-10-03 10:42:51.062000	149.2203	69.9149	R	2	10003
☐	42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☐	42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☐	43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☐	43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☐	43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☐	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

PTF Image
Eq-J2000: 9h56m02.91s, +69d41m36.7s
Image Pixel: 401.5, 504.5
Flux: 19.64219 mag

1.01"/file pix
1.01"/screen pix
1x
☐ Lock By Click

Arrow: Eq, North & East

Image Preview Coverage

PTF Image 1x, North

The image pane also has a preview so you can see you current subimage. Be warned that the flux display is only very approximate, since it relies on a crude background handling.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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IRSA Missions Archive Search Tools & Services Help

Searches History Preferences Help Catalogs Plot Layers [Background Monitor](#)

► **Search by Position** m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save **Filters**

crval1	crval2	filter	ccidid	ptffield	seeing	airmass	moonillf	moonesb
148.9873	69.7846	G	2	100037	2.8900	1.2700	0.2300	-0.5200
149.1549	69.9854	G	2	100037	2.8900	1.2300	0.3400	-0.9000
148.6094	69.6941	G	2	100037	2.7700	1.2800	0.3500	-0.9400
148.6095	69.6940	G	2	100037	2.7900	1.2400	-0.0000	0.0000
148.6095	69.6940	G	2	100037	3.3000	1.4500	-0.0000	0.0000
149.1548	69.9855	G	2	100037	2.1600	1.2400	-0.3600	0.0000
148.6571	69.9784	G	2	100037	2.2000	1.4200	-0.3500	0.0000
148.6574	69.9783	G	2	100037	2.1100	1.2400	-0.2700	0.0000
148.6095	69.6941	G	2	100037	2.2000	1.4000	-0.2600	0.0000
148.6616	69.9586	R	2	100037	2.4200	1.3300	-0.6500	0.0000
148.6615	69.9585	R	2	100037	2.2000	1.2300	-0.6400	0.0000
148.9373	69.8152	R	2	100037	1.9300	1.2700	-0.6400	0.0000
148.3569	69.7967	R	2	100037	1.9900	1.5700	-0.6200	-1.7300
149.7132	69.0665	R	2	100037	2.5800	1.7800	0.0900	0.0000
149.4395	69.9170	R	2	100037	2.6700	1.7000	0.1700	0.0000
149.2203	69.9149	R	2	100037	3.1400	2.0200	0.9900	-3.2900
148.8293	69.3559	R	2	100037	2.3900	1.6100	-0.6000	-1.8900
148.8293	69.3558	R	2	100037	2.2600	1.4400	-0.6000	-1.8500
148.8292	69.3558	R	2	100037	2.6600	1.4000	-0.0400	-0.0600
148.8292	69.3559	R	2	100037	2.4600	1.6000	0.1800	0.0000
148.8292	69.3559	R	2	100037	2.4500	1.4300	0.1900	0.0000
148.8295	69.8147	R	2	100037	2.4500	2.0300	1.0000	2.4200

Image Preview Coverage

PTF Image 1x, North

You can also apply filters to the retrieved image list to help select subsets of data. Click “filters” and extra tools will appear above the headers.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

IRSA NASA / IPAC Infrared Science Archive

IRSA Missions Archive Search Tools & Services Help

Searches History Preferences Help Catalogs Plot Layers Background Monitor

► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 10 (1 - 50 of 457) as Text Save 2 filters applied

☐ = R ☐ < 2.5

☐ Select multiple

crval1	crval2	field	ra	dec	airmass	moonillf	moonseb
148.6616	69.9586	R	2.4200	1.3300	-0.6500	0.0000	
148.6615	69.9585	R	2.2000	1.2300	-0.6400	0.0000	
148.9373	69.8152	R	1.9300	1.2700	-0.6400	0.0000	
148.3569	69.7967	R	1.9900	1.5700	-0.6200	-1.7300	
148.8293	69.3559	R	2.3900	1.6100	-0.6000	-1.8900	
148.8293	69.3558	R	2.2600	1.4400	-0.6000	-1.8500	
148.8292	69.3559	R	2.4600	1.6000	0.1800	0.0000	
148.8292	69.3559	R	2.4500	1.4300	0.1900	0.0000	
148.9395	69.8147	R	2.4600	2.0300	-1.0000	-3.4200	
148.8294	69.3557	R	2.4600	1.7400	-1.0000	-3.3800	
148.9388	69.8149	R	2.1500	1.2300	-0.0000	0.0000	
148.9396	69.8148	R	1.9900	1.2400	0.0000	0.0000	
148.9395	69.8148	R	2.4400	1.6900	-0.7500	-2.4300	
148.9394	69.8148	R	2.0700	1.3500	-0.9900	-3.6200	
148.9395	69.8145	R	2.4800	1.2400	-0.9600	-3.2400	
148.8293	69.3559	R	2.0100	1.3300	-0.6000	-1.5100	
148.9394	69.8145	R	2.0800	1.3500	-0.5100	0.0000	
148.9396	69.8147	R	1.9800	1.2700	-0.5100	-1.1800	
148.9394	69.8145	R	2.0900	1.3400	-0.2900	-0.5900	
148.9414	69.8152	R	2.1300	1.3700	-0.2000	-0.3800	
148.8293	69.3557	R	2.2000	1.3100	-0.1400	0.0000	
148.7504	69.4070	R	1.7400	1.2500	-0.1400	0.0000	

Image Preview Coverage

PTF Image 1x, North

Some of the tools will have radio buttons for applying boolean logic, others allow you to enter conditionals.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

IRSA NASA / IPAC Infrared Science Archive

IRSA Missions Archive Search Tools & Services Help

Searches History Preferences Help Catalogs Plot Layers [Background Monitor](#)

► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

☐	expid	obsdate	crval1	crval2	filter	ccid	ptffield
☐	8008	2009-03-31 03:34:46.229000	148.9873	69.7846	G	2	10003
☒	9154	2009-04-01 04:45:59.979000	149.1549	69.9854	G	2	10003
☒	9110	2009-04-01 06:52:01.779000	148.6094	69.6941	G	2	10003
☐	9890	2009-03-26 06:10:56.528000	148.6095	69.6940	G	2	10003
☐	9756	2009-03-26 09:07:07.178000	148.6095	69.6940	G	2	10003
☐	10273	2009-03-20 06:43:27.129000	149.1548	69.9855	G	2	10003
☐	10123	2009-03-20 09:17:36.278000	148.6571	69.9784	G	2	10003
☐	10544	2009-03-21 06:41:54.128000	148.6574	69.9783	G	2	10003
☐	10354	2009-03-21 09:01:44.728000	148.6095	69.6941	G	2	10003
☐	10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2	10003
☐	10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2	10003
☐	10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2	10003
☐	10904	2009-03-17 10:31:35.628000	148.3569	69.7967	R	2	10003
☐	41022	2009-09-21 12:20:52.317000	149.7132	69.0665	R	2	10003
☐	41124	2009-09-22 12:39:34.267000	149.4395	69.9170	R	2	10003
☐	41909	2009-10-03 10:42:51.062000	149.2203	69.9149	R	2	10003
☐	42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☐	42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☐	43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☐	43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☐	43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☐	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Image Preview Coverage

PTF Image 1x, North

Once you've found some images you like, click the left-hand checkboxes to select them.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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IRSA Missions Archive Search Tools & Services Help

Searches History Preferences Help Catalogs Plot Layers Background Monitor

► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

☒	epid	obsdate	crval1	crval2	filter	ccid	ptffield
☒	8008	2009-03-31 03:34:46.229000	148.9873	69.7846	G	2	10003
☒	9154	2009-04-01 04:45:59.979000	149.1549	69.9854	G	2	10003
☒	9130	2009-04-01 06:52:01.779000	148.6094	69.6941	G	2	10003
☒	9890	2009-03-26 06:10:56.528000	148.6095	69.6940	G	2	10003
☒	9756	2009-03-26 09:07:07.178000	148.6095	69.6940	G	2	10003
☒	10273	2009-03-20 06:43:27.129000	149.1548	69.9855	G	2	10003
☒	10123	2009-03-20 09:17:36.278000	148.6571	69.9784	G	2	10003
☒	10544	2009-03-21 06:41:54.128000	148.6574	69.9783	G	2	10003
☒	10354	2009-03-21 09:01:44.728000	148.6095	69.6941	G	2	10003
☒	10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2	10003
☒	10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2	10003
☒	10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2	10003
☒	10904	2009-03-17 10:31:35.628000	148.3569	69.7967	R	2	10003
☒	41022	2009-09-21 12:20:52.317000	149.7132	69.0665	R	2	10003
☒	41124	2009-09-22 12:39:34.267000	149.4395	69.9170	R	2	10003
☒	41909	2009-10-03 10:42:51.062000	149.2203	69.9149	R	2	10003
☒	42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☒	42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☒	43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☒	43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☒	43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☒	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☒	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Image Preview Coverage

PTF Image 1x, North

Or click the top-left box to select everything.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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Searches History Preferences Help Catalogs Plot Layers [Background Monitor](#)

► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level 1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

Image Preview Coverage

PTF Image 1x, North

Download Options

Download Level-1 Single Exposure: ☒ Yes ☐ No

Download Ancillary Files: ☒ Mask ☐ Raw Images ☒ SExtractor Catalog ☐ PSF Catalog

Download: Specified Cutouts

Zip File Structure: Flattened (no folders)

☒ Also send me email with URLs to download

Email:

Prepare Download Cancel

Exposure	Exposure Date	RA	DEC	Filter	Exposure Time	Product Level
☐ 8008	2009-03-31 03:34:46.22900	148.8293	69.3559	R	2	10003
☒ 9154	2009-04-01 04:45:59.97900	148.8293	69.3558	R	2	10003
☒ 9130	2009-04-01 06:52:01.77900	148.8292	69.3558	R	2	10003
☐ 9890	2009-03-26 06:10:56.52800	148.8292	69.3559	R	2	10003
☐ 9756	2009-03-26 09:07:07.17800	148.8292	69.3559	R	2	10003
☐ 10273	2009-03-20 06:43:27.12900	148.8292	69.3559	R	2	10003
☐ 10123	2009-03-20 09:17:36.27800	148.8292	69.3559	R	2	10003
☐ 10544	2009-03-21 06:41:54.12800	148.8292	69.3559	R	2	10003
☐ 10354	2009-03-21 09:01:44.72800	148.8292	69.3559	R	2	10003
☐ 10984	2009-03-17 03:40:51.87800	148.8292	69.3559	R	2	10003
☐ 10772	2009-03-17 05:40:41.57800	148.8292	69.3559	R	2	10003
☐ 10988	2009-03-17 07:41:36.98200	148.8292	69.3559	R	2	10003
☐ 10904	2009-03-17 10:31:35.62800	148.8292	69.3559	R	2	10003
☐ 41022	2009-09-21 12:20:52.31700	148.9395	69.8147	R	2	10003
☐ 41124	2009-09-22 12:39:34.26700	148.8294	69.3557	R	2	10003
☐ 41909	2009-10-03 10:42:51.06200	148.8293	69.3559	R	2	10003
☐ 42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☐ 42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☐ 43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☐ 43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☐ 43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☐ 44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐ 44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Click the “Prepare Download” button to bring up the download popup window.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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Searches History Preferences Help Catalogs Plot Layers Background Monitor

Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

Image Preview Coverage

PTF Image 1x, North

☐	expid	obsdate
☐	8008	2009-03-31 03:34:46.22900
☒	9154	2009-04-01 04:45:59.97900
☒	9130	2009-04-01 06:52:01.77900
☐	9890	2009-03-26 06:10:56.52800
☐	9756	2009-03-26 09:07:07.17800
☐	10273	2009-03-20 06:43:27.12900
☐	10123	2009-03-20 09:17:36.27800
☐	10544	2009-03-21 06:41:54.12800
☐	10354	2009-03-21 09:01:44.72800
☐	10984	2009-03-17 03:40:51.87800
☐	10772	2009-03-17 05:40:41.57800
☐	10988	2009-03-17 07:41:36.98200
☐	10904	2009-03-17 10:31:35.62800
☐	41022	2009-09-21 12:20:52.31700
☐	41124	2009-09-22 12:39:34.26700
☐	41909	2009-10-03 10:42:51.06200
☐	42461	2009-10-10 11:52:52.712000
☐	42471	2009-10-10 12:56:30.963000
☐	43010	2009-10-16 12:55:47.363000
☐	43646	2009-10-22 11:08:27.613000
☐	43629	2009-10-22 12:13:27.912000
☐	44673	2009-11-03 08:39:24.063000
☐	44656	2009-11-03 09:42:04.162000

Download Options

Download Level-1 Single Exposure: ☒ Yes ☐ No

Download Ancillary Files: ☒ Mask ☐ Raw Images ☒ SExtractor Catalog ☐ PSF Catalog

Download: Specified Cutouts

Zip File Structure: Flattened (no folders)

☒ Also send me email with URLs to download

Email:

Prepare Download Cancel

☐	42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☐	42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☐	43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☐	43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☐	43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☐	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

The options shown are the most commonly used. In particular, you almost certainly want the flux image, as well as the mask and the catalog files. Public users do not have access to the raw data or the PSF-fit catalogs at this time.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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IRSA Missions Archive Search Tools & Services Help

Searches History Preferences Help Catalogs Plot Layers Background Monitor

Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

Image Preview Coverage PTF Image 1x, North

expid	obsdate
☐ 8008	2009-03-31 03:34:46.22900
☒ 9154	2009-04-01 04:45:59.97900
☒ 9130	2009-04-01 06:52:01.77900
☐ 9890	2009-03-26 06:10:56.52800
☐ 9756	2009-03-26 09:07:07.17800
☐ 10273	2009-03-20 06:43:27.12900
☐ 10123	2009-03-20 09:17:36.27800
☐ 10544	2009-03-21 06:41:54.12800
☐ 10354	2009-03-21 09:01:44.72800
☐ 10984	2009-03-17 03:40:51.87800
☐ 10772	2009-03-17 05:40:41.57800
☐ 10988	2009-03-17 07:41:36.98200
☐ 10904	2009-03-17 10:31:35.62800
☐ 41022	2009-09-21 12:20:52.31700
☐ 41124	2009-09-22 12:39:34.26700
☐ 41909	2009-10-03 10:42:51.06200
☐ 42461	2009-10-10 11:52:52.712000
☐ 42471	2009-10-10 12:56:30.963000
☐ 43010	2009-10-16 12:55:47.363000
☐ 43646	2009-10-22 11:08:27.613000
☐ 43629	2009-10-22 12:13:27.912000
☐ 44673	2009-11-03 08:39:24.063000
☐ 44656	2009-11-03 09:42:04.162000

Download Options

Download Level-1 Single Exposure: ☒ Yes ☐ No

Download Ancillary Files: ☒ Mask ☐ Raw Images ☒ SExtractor Catalog ☐ PSF Catalog

Download: **Specified Cutouts**

Zip File Structure: Flattened (no folders)

☒ Also send me email with URLs to download

Email:

Prepare Download Cancel

expid	obsdate	ra	dec	filter	exposure	mag
42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

If you searched for cutouts, you probably only want to download the cutouts. If you select "original images" you will get orders of magnitude more data volume!

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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IRSA Missions Archive Search Tools & Services Help

Searches History Preferences Help Catalogs Plot Layers Background Monitor

Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

Image Preview Coverage

PTF Image 1x, North

☐	expid	obsdate
☐	8008	2009-03-31 03:34:46.22900
☒	9154	2009-04-01 04:45:59.97900
☒	9130	2009-04-01 06:52:01.77900
☐	9890	2009-03-26 06:10:56.52800
☐	9756	2009-03-26 09:07:07.17800
☐	10273	2009-03-20 06:43:27.12900
☐	10123	2009-03-20 09:17:36.27800
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☐	10984	2009-03-17 03:40:51.87800
☐	10772	2009-03-17 05:40:41.57800
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☐	10904	2009-03-17 10:31:35.62800
☐	41022	2009-09-21 12:20:52.31700
☐	41124	2009-09-22 12:39:34.26700
☐	41909	2009-10-03 10:42:51.06200
☐	42461	2009-10-10 11:52:52.712000
☐	42471	2009-10-10 12:56:30.963000
☐	43010	2009-10-16 12:55:47.363000
☐	43646	2009-10-22 11:08:27.613000
☐	43629	2009-10-22 12:13:27.912000
☐	44673	2009-11-03 08:39:24.063000
☐	44656	2009-11-03 09:42:04.162000

☐	148.8293	69.3559	R	2	10003	
☐	148.8293	69.3558	R	2	10003	
☐	148.8292	69.3558	R	2	10003	
☐	148.8292	69.3559	R	2	10003	
☐	148.8292	69.3559	R	2	10003	
☐	148.9395	69.8147	R	2	10003	
☐	148.8294	69.3557	R	2	10003	

Download Options

Download Level-1 Single Exposure: ☒ Yes ☐ No

Download Ancillary Files: ☒ Mask ☐ Raw Images ☒ SExtractor Catalog ☐ PSF Catalog

Download: Specified Cutouts

Zip File Structure: **Flattened (no folders)**

☒ Also send me email with URLs to download

Email:

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The data will come packaged as zipfiles. The “flattened” option delivers the individual files all in a single subdirectory, and is the option most users prefer.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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Searches History Preferences Help Catalogs Plot Layers Background Monitor

Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

Image Preview Coverage

PTF Image 1x, North

☐	expid	obsdate
☐	8008	2009-03-31 03:34:46.22900
☒	9154	2009-04-01 04:45:59.97900
☒	9130	2009-04-01 06:52:01.77900
☐	9890	2009-03-26 06:10:56.52800
☐	9756	2009-03-26 09:07:07.17800
☐	10273	2009-03-20 06:43:27.12900
☐	10123	2009-03-20 09:17:36.27800
☐	10544	2009-03-21 06:41:54.12800
☐	10354	2009-03-21 09:01:44.72800
☐	10984	2009-03-17 03:40:51.87800
☐	10772	2009-03-17 05:40:41.57800
☐	10988	2009-03-17 07:41:36.98200
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☐	41124	2009-09-22 12:39:34.26700
☐	41909	2009-10-03 10:42:51.06200
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☐	43010	2009-10-16 12:55:47.363000
☐	43646	2009-10-22 11:08:27.613000
☐	43629	2009-10-22 12:13:27.912000
☐	44673	2009-11-03 08:39:24.063000
☐	44656	2009-11-03 09:42:04.162000

Download Options

Download Level-1 Single Exposure: ☒ Yes ☐ No

Download Ancillary Files: ☒ Mask ☐ Raw Images ☒ SExtractor Catalog ☐ PSF Catalog

Download: Specified Cutouts

Zip File Structure: Flattened (no folders)

☒ Also send me email with URLs to download

Email:

Prepare Download Cancel

☐	42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☐	42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☐	43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☐	43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
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☐	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Finally, each zipfile has a maximum size of 2GB. If your total data volume exceeds this, the delivery will come as multiple files. For large volumes, optionally enter your email here. The system will email you a script when it is done to automatically pull the data.

The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

IRSA NASA / IPAC Infrared Science Archive

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Searches History Preferences Help Catalogs Plot Layers Background Monitor

Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

Image Preview Coverage

PTF Image 1x, North

☐	expid	obsdate
☐	8008	2009-03-31 03:34:46.22900
☒	9154	2009-04-01 04:45:59.97900
☒	9130	2009-04-01 06:52:01.77900
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☐	10273	2009-03-20 06:43:27.12900
☐	10123	2009-03-20 09:17:36.27800
☐	10544	2009-03-21 06:41:54.12800
☐	10354	2009-03-21 09:01:44.72800
☐	10984	2009-03-17 03:40:51.87800
☐	10772	2009-03-17 05:40:41.57800
☐	10988	2009-03-17 07:41:36.98200
☐	10904	2009-03-17 10:31:35.62800
☐	41022	2009-09-21 12:20:52.31700
☐	41124	2009-09-22 12:39:34.26700
☐	41909	2009-10-03 10:42:51.06200
☐	42461	2009-10-10 11:52:52.712000
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☐	43646	2009-10-22 11:08:27.613000
☐	43629	2009-10-22 12:13:27.912000
☐	44673	2009-11-03 08:39:24.063000
☐	44656	2009-11-03 09:42:04.162000

Download Options

Download Level-1 Single Exposure: ☒ Yes ☐ No

Download Ancillary Files: ☒ Mask ☐ Raw Images ☒ SExtractor Catalog ☐ PSF Catalog

Download: Specified Cutouts

Zip File Structure: Flattened (no folders)

☒ Also send me email with URLs to download

Email:

Prepare Download Cancel

expid	obsdate	ra	dec	filter	exposure	product
42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

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The Palomar Transient Factory - Search by Position

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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IRSA Missions Archive Search Tools & Services Help

Searches History Preferences Help Catalogs Plot Layers

Guest Login ?

 [Preparing 1](#)

► Search by Position m82; Type=CENTER; Image Size=0.2500 deg; Product Level=1

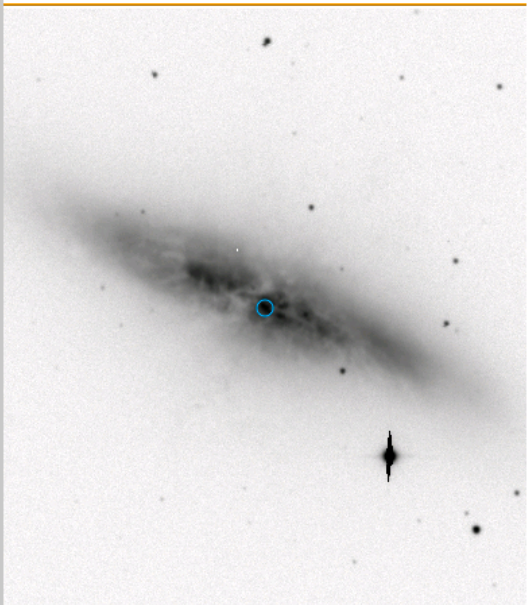
Level-1

Prepare Download 1 of 23 (1 - 50 of 1149) as Text Save Filters

☐	expid	obsdate	crval1	crval2	filter	ccid	ptffield
☐	8008	2009-03-31 03:34:46.229000	148.9873	69.7846	G	2	10003
☒	9154	2009-04-01 04:45:59.979000	149.1549	69.9854	G	2	10003
☒	9130	2009-04-01 06:52:01.779000	148.6094	69.6941	G	2	10003
☒	9890	2009-03-26 06:10:56.528000	148.6095	69.6940	G	2	10003
☒	9756	2009-03-26 09:07:07.178000	148.6095	69.6940	G	2	10003
☒	10273	2009-03-20 06:43:27.129000	149.1548	69.9855	G	2	10003
☒	10123	2009-03-20 09:17:36.278000	148.6571	69.9784	G	2	10003
☒	10544	2009-03-21 06:41:54.128000	148.6574	69.9783	G	2	10003
☒	10354	2009-03-21 09:01:44.728000	148.6095	69.6941	G	2	10003
☒	10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2	10003
☒	10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2	10003
☒	10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2	10003
☒	10904	2009-03-17 10:31:35.628000	148.3569	69.7967	R	2	10003
☒	41022	2009-09-21 12:20:52.317000	149.7132	69.0665	R	2	10003
☒	41124	2009-09-22 12:39:34.267000	149.4395	69.9170	R	2	10003
☒	41909	2009-10-03 10:42:51.062000	149.2203	69.9149	R	2	10003
☒	42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☒	42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☒	43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☒	43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☒	43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☒	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

Image Preview Coverage

PTF Image 1x, North



Here's that sprocket icon indicating the archive is working on packaging your job.

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http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_image_pos&RequestClass=ServerRequest Google

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1 New Job Ready

Searches History Preferences

Search by Position m82; Type=CENT

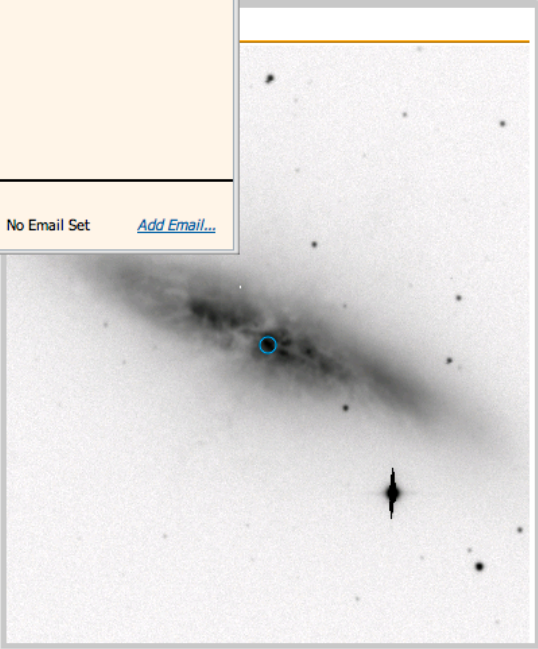
Level-1

Prepare Download 1 of 23

☐	expid	obsdate					
☐	8008	2009-03-31 03:34:46.229000					
☒	9154	2009-04-01 04:45:59.979000					
☒	9130	2009-04-01 06:52:01.779000					
☒	9890	2009-03-26 06:10:56.528000					
☒	9756	2009-03-26 09:07:07.178000					
☒	10273	2009-03-20 06:43:27.129000					
☒	10123	2009-03-20 09:17:36.278000					
☒	10544	2009-03-21 06:41:54.128000					
☒	10354	2009-03-21 09:01:44.728000	148.6095	69.6941	G	2	10003
☒	10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2	10003
☒	10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2	10003
☒	10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2	10003
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☒	41124	2009-09-22 12:39:34.267000	149.4395	69.9170	R	2	10003
☒	41909	2009-10-03 10:42:51.062000	149.2203	69.9149	R	2	10003
☒	42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003
☒	42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003
☒	43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003
☒	43646	2009-10-22 11:08:27.613000	148.8292	69.3559	R	2	10003
☒	43629	2009-10-22 12:13:27.912000	148.8292	69.3559	R	2	10003
☒	44673	2009-11-03 08:39:24.063000	148.9395	69.8147	R	2	10003
☐	44656	2009-11-03 09:42:04.162000	148.8294	69.3557	R	2	10003

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```
Terminal — tcsh — 80x24
PTF_200910105392_i_p_scie_t125630_u011804803_f02_p100037_c02_ra148.9697_dec69.67
94_asec900.fits
PTF_200910165387_c_p_scie_t125547_u011809074_f02_p100037_c02.ctlg
PTF_200910165387_i_p_mask_t125547_u011809074_f02_p100037_c02_ra148.9697_dec69.67
94_asec900.fits
PTF_200910165387_i_p_scie_t125547_u011809074_f02_p100037_c02_ra148.9697_dec69.67
94_asec900.fits
PTF_200910224642_c_p_scie_t110827_u011941342_f02_p100037_c02.ctlg
PTF_200910224642_i_p_mask_t110827_u011941342_f02_p100037_c02_ra148.9697_dec69.67
94_asec900.fits
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94_asec900.fits
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94_asec900.fits
PTF_200911033607_i_p_scie_t083924_u011787957_f02_p100037_c02_ra148.9697_dec69.67
94_asec900.fits
README.txt
humu%
```

Here are those files. Because we specified cutouts, the filenames are the original filename, with the RA, DEC, and radius appended. Note that catalog files are the catalogs for the full image, they are not trimmed to just the specified image subsection.

The Palomar Transient Factory - Search by PTF Field ID

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Search by PTF Field ID

Image Searches

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- [Search by PTF Field ID](#)
- [Solar System Object/Orbit](#)

PTF Field ID(s):

Example for multiple Field IDs: 100043;4445

CCD ID(s):

valid ccdids range from 0 to 11. Example for multiple ccdids: 8;9;10

Data Product Level: ☒ Level-1 Single Exposure ☐ Level-2 Coadd

Search **Clear** ?

expid	obs	ra	dec	ra	dec	ra	dec	ra	dec
8008	20								
9154	20								
9130	20								
9890	20								
9756	20								
10273	20								
10123	20								
10544	20								
10354	20								
10984	2009-03-17 03:40:51.878000	148.6616	69.9586	R	2	10003			
10772	2009-03-17 05:40:41.578000	148.6615	69.9585	R	2	10003			
10988	2009-03-17 07:41:36.982000	148.9373	69.8152	R	2	10003			
10904	2009-03-17 10:31:35.628000	148.3569	69.7967	R	2	10003			
41022	2009-09-21 12:20:52.317000	149.7132	69.0665	R	2	10003			
41124	2009-09-22 12:39:34.267000	149.4395	69.9170	R	2	10003			
41909	2009-10-03 10:42:51.062000	149.2203	69.9149	R	2	10003			
42461	2009-10-10 11:52:52.712000	148.8293	69.3559	R	2	10003			
42471	2009-10-10 12:56:30.963000	148.8293	69.3558	R	2	10003			
43010	2009-10-16 12:55:47.363000	148.8292	69.3558	R	2	10003			

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1.7 Final, Built On: Mar 13 2014 09:08 AM PDT

This is a more advanced search option, mostly of use to experts. If you need to retrieve data with a specific pointing geometry, you can get data with a specific PTF Field ID (tile), and also specify the specific CCD if you need to. Because the first public data release is a relatively small number of locations on the sky, this search is the easiest way to retrieve all of that data. For example, the first data release Kepler field data spans 23 PTF tiles, so a search here allows getting it all at once. The PTF web site contains pre-canned searches for this data. The data can also be retrieved efficiently through the IBE interface.

The Palomar Transient Factory - Solar System Object/Orbit

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_most&RequestClass=ServerRequest&Do Google

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Image Searches

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Object Name MPC Input Manual Input

Object Name or ID:

Object Name: **2 Pallas**, NAIF ID: **2000002**

Observation Begin (UT): Observation End (UT):

Enter date range to search, format example: 2010-01-14 15:30:00, or 2010-01-14.

Return Image Size (leave blank for full images):

?

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Finally, we have the solar system search capability. This works by either using input orbital elements or reaching out to JPL-HORIZONS to compute an ephemeris which is then crossed against all the PTF data.

The Palomar Transient Factory - Solar System Object/Orbit

http://irsa.ipac.caltech.edu/applications/ptf/#id=Hydra_ptf_ptf_most&RequestClass=ServerRequest&Do Google

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► **Solar System Object/Orbit** 2 Pallas

SSO Search Result

Prepare Download 1 of 2 (1 - 50 of 68) as Text Save Filter

☐	ra_obj	dec_obj	sun_dist	geo_dist	dist_ctr	phase	vma
☐	6.4043	5.7836	3.1329	3.0365	0.4409	18.8838	1
☐	6.3989	5.7839	3.1329	3.0370	0.4409	18.8829	1
☐	6.4097	5.7832	3.1328	3.0360	0.4406	18.8847	1
☐	6.7591	5.7573	3.1294	3.0047	0.4425	18.9375	1
☐	6.7648	5.7568	3.1294	3.0042	0.4450	18.9382	1
☐	6.7700	5.7563	3.1293	3.0037	0.4482	18.9388	1
☐	10.0542	4.6302	3.0859	2.6196	0.5630	18.2703	9
☐	10.0568	4.6277	3.0858	2.6192	0.5617	18.2676	9
☐	10.0567	4.6278	3.0858	2.6192	0.5579	18.2677	9
☐	10.7296	0.7632	3.0297	2.2156	0.2841	13.3244	9
☐	10.7253	0.7489	3.0295	2.2147	0.2706	13.3041	9
☐	10.6832	0.5948	3.0279	2.2053	0.1581	13.0907	9
☐	10.6807	0.5866	3.0278	2.2048	0.1522	13.0790	9
☐	10.6781	0.5785	3.0277	2.2043	0.1486	13.0674	9
☐	10.6758	0.5715	3.0276	2.2039	0.1426	13.0575	9
☐	10.6734	0.5639	3.0276	2.2034	0.1415	13.0468	9
☐	10.6715	0.5580	3.0275	2.2031	0.1409	13.0384	9
☐	10.6246	0.3993	3.0258	2.1937	0.1817	12.8176	9
☐	10.6211	0.3889	3.0257	2.1931	0.1936	12.8028	9
☐	10.6187	0.3818	3.0257	2.1927	0.1980	12.7927	9
☐	10.6164	0.3751	3.0256	2.1923	0.2019	12.7831	9
☐	10.6141	0.3685	3.0255	2.1919	0.2092	12.7737	9
☐	10.4108	-0.2231	3.0195	2.1595	0.3997	11.9421	9

SSO Image Coverage

FITS image or spectrum is not available.
Could not create plot. Unable to get file location info

Public data users should note that there is a significant “feature” of this search tool at this time. Specifically, the search tool will locate and display all PTF data that contain the target, regardless of whether it is publicly available or not. If the error shown above appears, it means that the PTF archive contains the data, but you don’t have sufficient credentials to access the data itself. In this case you might want to contact members of the iPTF collaboration to explore acquiring data rights.