

PS1 Photometric catalog queries

This page is meant to help users to query for photometric catalogs available in the PanSTARRS archive. **Information on this page mostly refers to an older version of the catalog interface that is no longer supported**, but some information here may still be useful. Please see the Catalog Access Tools section of [How to retrieve and use PS1 data](#) for current information on web services, SQL query tools (Casjobs), and other mechanisms for accessing the catalogs.

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The starting point for the PS1 data archive is at [Pan-STARRS1 data archive home page](#).

Where to start

To start a query for a public PanSTARRS photometric catalog go to the PS1 archive website at Space Telescope Science Institute, <http://panstarrs.stsci.edu/>, and access with your username and password. To obtain a username and password please write a request to psphelp@ifa.hawaii.edu.

On the main page you will find these links:

- **Main:** you can access the website Index Map, the News, look for help, change your profile settings and logout;
- **Query Page:** You can submit a SQL query to download catalogs from the different photometric surveys (*Select Database:* PanSTARRS_3PI, i.e. the complete survey, PanSTARRS_M01-10, i.e. the Medium Deep Field survey, etc..). If you prepared a query in SQL you can directly upload it by clicking on *Upload Query File Form*. If you are not an expert of SQL you can find some useful query examples by clicking on *Query Examples Forms*. [Quality Flag Tool](#) allows you to interpret the quality flag informations present in the different tables (Object table, Detection table, etc..).
- **Queued Jobs:** here you will find the status of your submitted search. The status will be **Ready** if the search was successful; **Failed** if it encountered problems/errors, and **Progress** if the search is still going on. The search can be successful but it will provide a table with 0 rows if the result of the search is null. Under the option **Query** there is the possibility to click on **Edit** and go back to the **Query page** and modify and/or correct the query under the option **Result** you will be able to click on the available link and eventually download the queried table.
- **MyDB:** here you will find all the tables you queried for. You have the possibility to download them by clicking on *Table Extraction Form*, select one of the table from your MyDb table list, select the file format you prefer (CSV, FITS, TVCS, VOTable) and then click on *Extract* (Note that the CSV format table you download here uses " as separators.)
- **Graphing:** here you will have the possibility to draw plots based on the content of one of your MyDB tables.
- **Postage Stamps:** here you will be able to query for image postage stamps from the different PanSTARRS surveys.

Examples

Some example queries are listed here:

1. Retrieve mean magnitudes, forced magnitudes, single epoch detections and difference image light curves for a sample of 13 RR Lyrae stars from the Catalina Sky Survey [SAS 40: Light curves, forced light curves, and difference image light curves of an RR Lyrae list](#)
2. More general examples of easy queries: [Useful PSPS Queries](#) (**Update to the new schema**)