The Catalina Surveys Data Release 2

Welcome to the second data release from the Catalina Surveys Team.
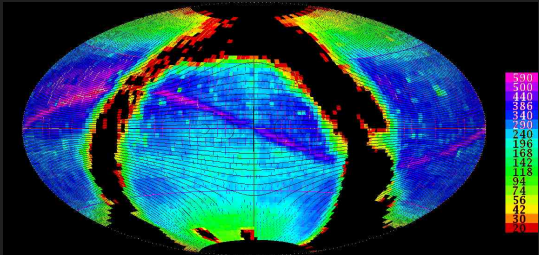
New (2018-06-27): Photometry for all 5540 CRTS-I transients discovered in CSS data.
2017-11-15: Updated Catalina RR Lyrae Catalog (43,389 lightcurves).
2017-05-24: Catalina Southern Periodic Variable Star Catalog.
2014: Catalina Northern Periodic Variable Star Catalog.

Find out what's new about CSDR2.

Introduction

The *Catalina Surveys* consist of the Catalina Sky Survey (**CSS**) and the Catalina Real-time Transient Survey (**CRTS**).

The **CSS** project involves searches for rapidly moving Near Earth Objects (**NEOs**), while **CRTS** searches for stationary optical transients (**OTs**). Both surveys work collaboratively to extract the maximum scientific return from data from three **telescopes** operated by CSS. In this same collaborative spirit we are now providing an open-access to all the archival photometry.

An Aitoff projection of the sky region covered by this release in equatorial coordinates (centered at RA=0h). The colour key gives the number of epochs at each location (click for larger image).
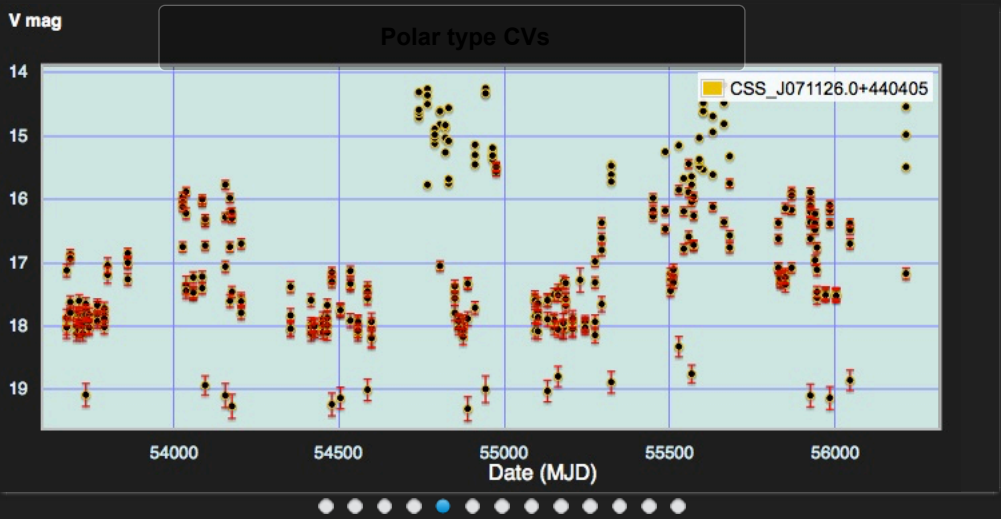
Data Available in CSDR2

Here you will find the second public data release (CSDR2) from the *Catalina Surveys* that consists of all photometry from **seven years** of photometry taken with the the CSS **telescopes**. This data release encompasses the photometry for **500 million objects** (~40 billion measurements) with V magnitudes between *11.5* and *21.5* from an area of **33,000 square degrees**. Catalina photometry covers objects in the range -75° < Dec < 70° and |b| > ~15° with the number of observation epochs at each location is as shown above (see **FAQ**). Catalina images will be available in the **third** data release.

Data Access

Data Query Services:

Search for photometry in a single location.

Search for photometry in multiple locations.

Retrieve photometry by object name.

Check image coverage by location.

Extract photometry by Catalina db ID.

Search for a period by Catalina db ID.

Examples

More examples of Catalina Surveys lightcurves and GCVS variables. Links to 12,000 RR Lyrae from CSDR1.

Additional details

Database

Organiszation of the data base follows this DB Schemata.

FAQ

What you should understand about the data.

Disclaimer, Conditions, and Limitations

This data is supplied with the intent of maximizing scientific utility. Although we have attempted to verify the integtrity of the data, users should be cautious with interpetration of measurements (as outlined in the FAQ). Wherever possible and appropriate, discoveries made using this data should cite the Catalina Surveys ID given by the services.

This data is not being supplied by a data center. Therefore, we must limit queries by single users so that all users can benefit. Users wishing to run scripts with very large number of queries, or produce external services linking to the data, must contact us before doing so.