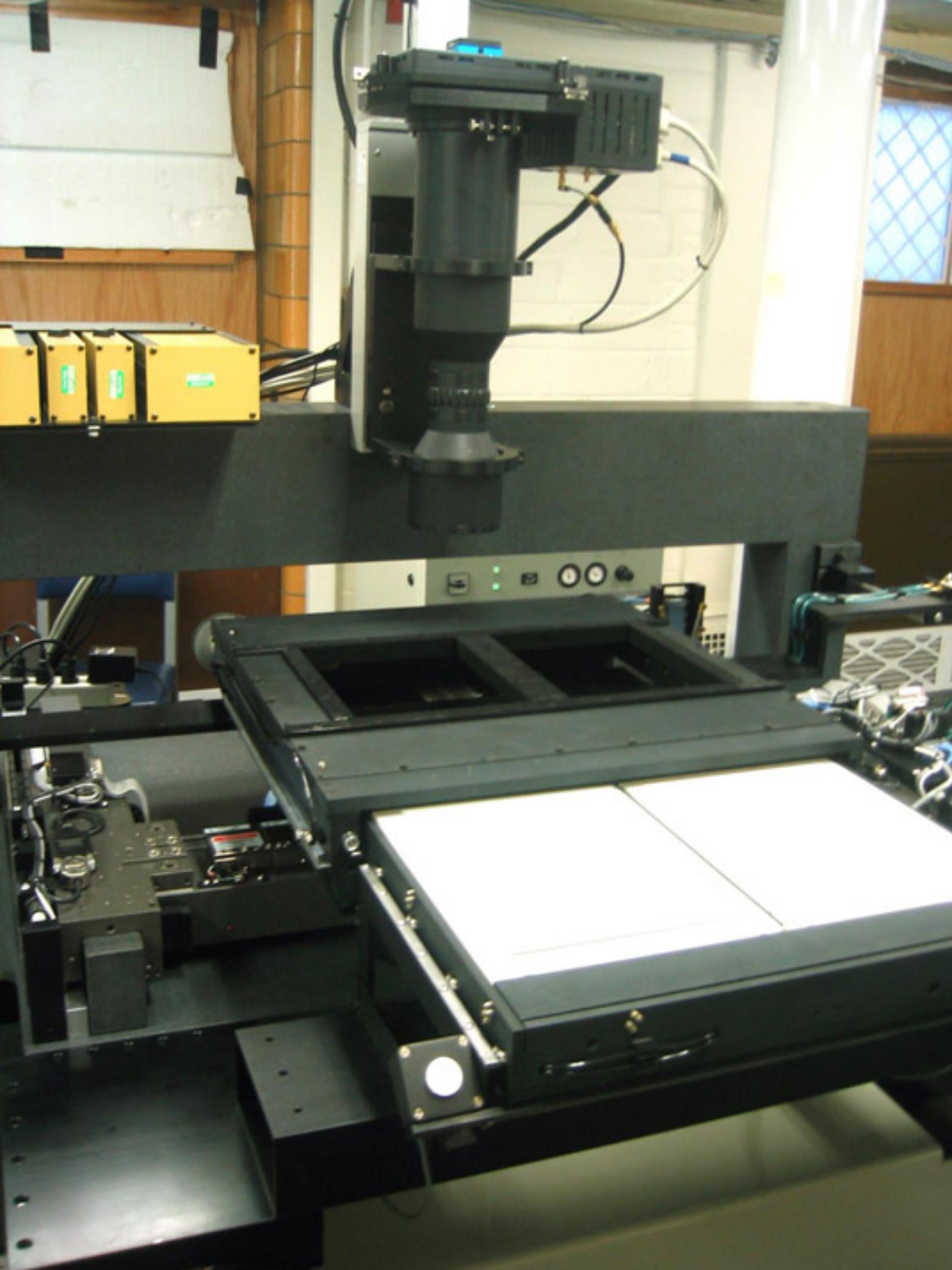


# A Web Interface for the DASCH Photometry Database

Edward J. Los  
AAVSO Meeting  
October, 2010

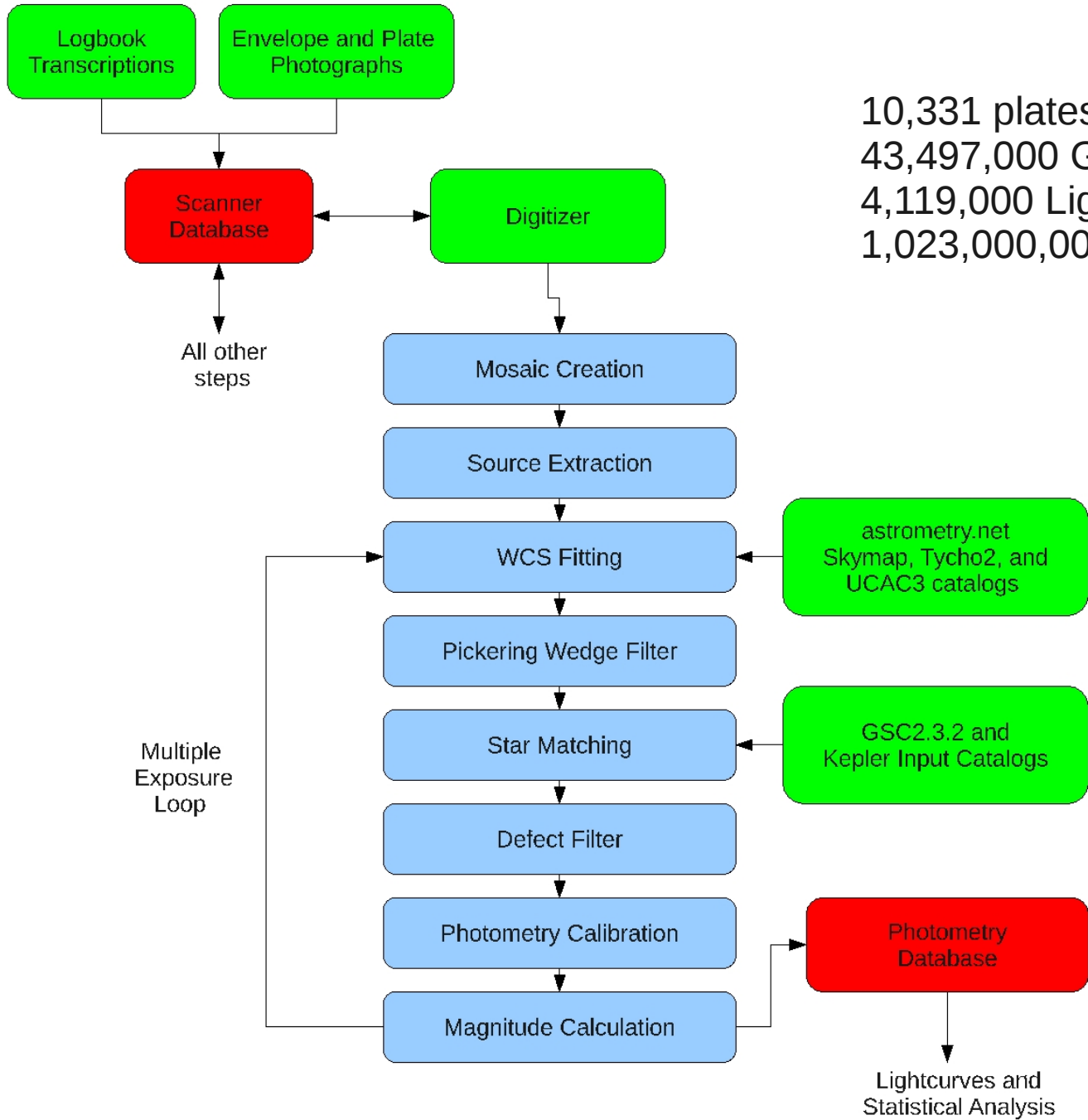


As of October 1, 2010

11,078 Plates Scanned

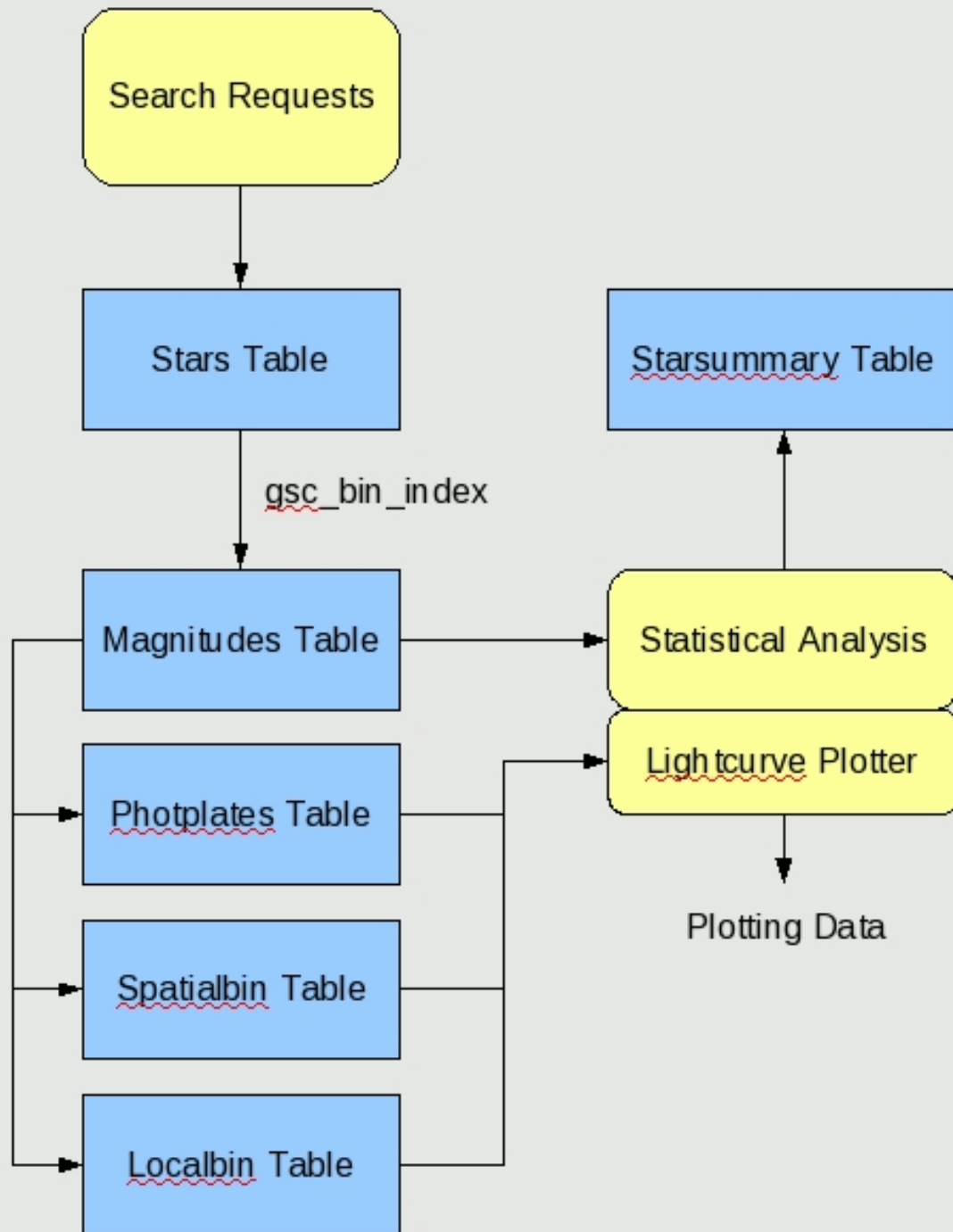
11,053 Plates with WCS fits

11,898 solutions

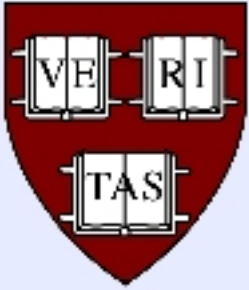


10,331 plates processed  
 43,497,000 GSC 2.3.2 stars matched  
 4,119,000 Light curves  
 1,023,000,000 magnitudes

# Photometry Data Processing Flow



Indexed with 168,966,386  
1/64 degree square bins



<http://hea-www.harvard.edu/DASCH/lightcurve.php>

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← Objects within 6 degrees of M44 (08:40:24.000 +19:40:58.80)  
30,739,321 magnitude measurements  
over 183,830 GSC 2.3.2 catalog stars



# DASCH

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## The DASCH Photometry Catalog

This preliminary release of the DASCH photometry catalog contains photographic blue photometry for stars within 6 degrees of the center of M44 (08:40:24.000 +19:40:58.80). The photometric errors are typically 0.10 - 0.15 mag with minimum values for stars with magnitudes in the range  $B \sim 11-23$ . Details of the photometry are reported in Laycock et al (2010, AJ), Tang et al (2010, ApJL), and Tang et al 2011 in preparation. This release contains 30,739,321 magnitude measurements for over 183,830 GSC 2.3.2 catalog stars. All positions are precessed to J2000 coordinates. Extracts of scanned images are not currently available as part of this release.

To access photometric data enter object ID's (one per line) in the window below. Valid identifications are: **J2000 RA DEC** (5:45 -81.5 or 5:26:50 -81:35:12 or 8 41 43.8 +19 43 33.5), **GSC2.3.2 ID** (for the gsc2.3.2 dataset only; e.g. N2312220181), **Simbad-searchable object name** (S Cnc or X Cnc), or **DASCH object** (DASCH\_J123349.2-113822). All stars within **d** arcsecs from center, having more than **N** measurements will be listed. To obtain object's light curve, click on its listed ID.

N >=  d <=  arcsec

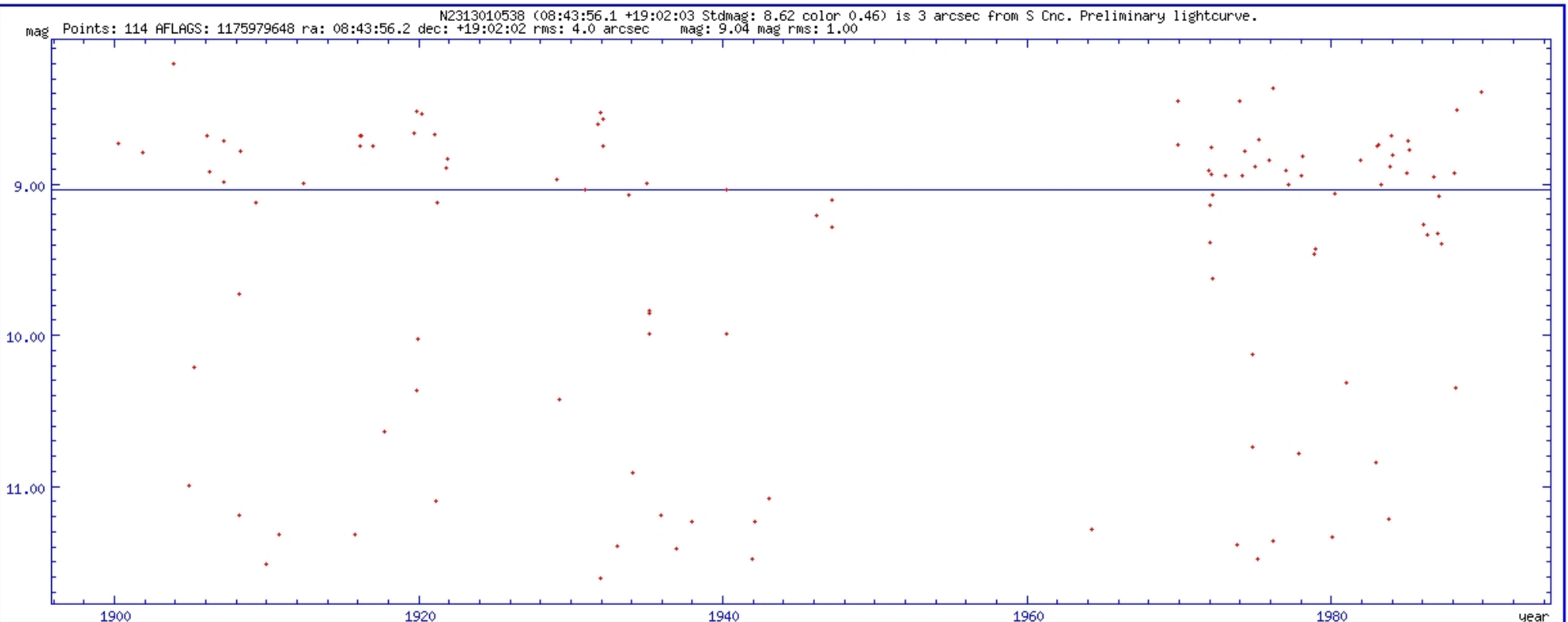
Use frame format  Use separate tabs

Thanks to Grzegorz Pojmanski of the [ASAS project](#) for providing the source code on which this interface is based.

**DASCH is supported by NSF grants AST-0407380 and (now) AST-0909073 for which we are grateful.**

**DASCH (gsc2.3.2) Catalog Query Results (100")**

'S Cnc'	ra:	08:43:56.1	dec	+19:02:03
arcsec	Nobs	mag	id	
3	1147	9.49	<a href="#">N2313010538</a>	
22	3	11.95	<a href="#">DASCH_J084356.2+190225</a>	
31	1	14.69	<a href="#">DASCH_J084354.0+190211</a>	
32	1	14.76	<a href="#">DASCH_J084353.9+190159</a>	
32	1	15.25	<a href="#">DASCH_J084358.3+190154</a>	
35	1	16.64	<a href="#">DASCH_J084353.7+190205</a>	
36	1	11.35	<a href="#">DASCH_J084356.2+190127</a>	
36	6	11.65	<a href="#">DASCH_J084356.3+190239</a>	
45	8	12.94	<a href="#">DASCH_J084356.2+190248</a>	
46	1	14.26	<a href="#">DASCH_J084358.3+190237</a>	
46	1	16.52	<a href="#">DASCH_J084357.9+190242</a>	
51	1	14.87	<a href="#">DASCH_J084357.8+190248</a>	
52	1	14.93	<a href="#">DASCH_J084352.5+190200</a>	
52	1	14.87	<a href="#">DASCH_J084359.7+190216</a>	
52	1	14.06	<a href="#">DASCH_J084359.8+190209</a>	
53	2	15.92	<a href="#">DASCH_J084353.7+190243</a>	
54	2	14.22	<a href="#">DASCH_J084352.5+190218</a>	
56	1	15.45	<a href="#">DASCH_J084359.6+190230</a>	
56	4	13.62	<a href="#">DASCH_J084352.2+190210</a>	
57	1	14.89	<a href="#">DASCH_J084358.7+190247</a>	
59	5	14.29	<a href="#">N2313010550</a>	
60	1	13.98	<a href="#">DASCH_J084352.8+190240</a>	
61	1	15.51	<a href="#">DASCH_J084352.0+190219</a>	
62	1	16.07	<a href="#">DASCH_J084353.1+190247</a>	
62	2	15.40	<a href="#">DASCH_J084400.3+190222</a>	
62	2	13.70	<a href="#">DASCH_J084351.8+190154</a>	
64	1	15.30	<a href="#">DASCH_J084400.6+190158</a>	
64	1	15.50	<a href="#">DASCH_J084400.6+190213</a>	
66	1	17.40	<a href="#">N23130104185</a>	
66	1	14.56	<a href="#">DASCH_J084351.5+190211</a>	
66	1	14.29	<a href="#">DASCH_J084352.2+190239</a>	
68	2	14.29	<a href="#">DASCH_J084351.5+190219</a>	
69	5	13.40	<a href="#">DASCH_J084351.3+190206</a>	
69	1	14.07	<a href="#">DASCH_J084351.3+190156</a>	
69	1	15.66	<a href="#">DASCH_J084351.5+190225</a>	
70	1	15.92	<a href="#">DASCH_J084359.4+190255</a>	
70	1	16.60	<a href="#">DASCH_J084401.0+190214</a>	
71	1	11.40	<a href="#">DASCH_J084356.3+190314</a>	
72	1	13.83	<a href="#">DASCH_J084401.2+190202</a>	
72	1	11.60	<a href="#">DASCH_J084356.2+190051</a>	
72	4	13.91	<a href="#">DASCH_J084351.1+190153</a>	
72	2	13.60	<a href="#">DASCH_J084351.8+190241</a>	
72	585	12.88	<a href="#">N2313010539</a>	
74	2	14.05	<a href="#">DASCH_J084401.1+190225</a>	
75	1	15.28	<a href="#">DASCH_J084351.0+190222</a>	
76	2	14.13	<a href="#">DASCH_J084350.8+190214</a>	
78	1	15.65	<a href="#">DASCH_J084351.5+190245</a>	



Click on points for more detailed information about the measurement.

[Data is in a Starbase table format. See the database contents page for definitions of column headers.](#)

[Data is in VOTable format.](#)

from year  to year

Black points are the best quality. Red points have one or more issues. Buttons below control the display of red points: a button with bold type means that the point is plotted.

[Return to DASCH Home Page](#)



**Preliminary photometry data for N2313010538**

58 Date 1947.215857 Mag 9.287190  
Plate rb14938 Solution 0 spatial\_bin 3

[Prev](#)[Auto](#)[Next](#)

**Images are not available in this release.**

AFLAGS: 34603008(d) Star  
Bit: 20 Blend of multiple catalog stars  
Bit: 25 Plate Defect  
BFLAGS: 1349410816(d) Catalog: COLOR\_TYCHO  
Bit: 17 Calibrated with a lowess fit  
Bit: 18 Locally calibrated  
Bit: 19 Corrected for extinction  
Bit: 21 Valid color correction  
Bit: 22 Metropolis color search succeeded  
Bit: 28 Position adjusted by bin median errors  
Bit: 30 Corrected for proper motion

## DASCH (gsc2.3.2) Catalog Query Results (100")

'S Cnc' ra: 08:43:56.1 dec +19:02:03

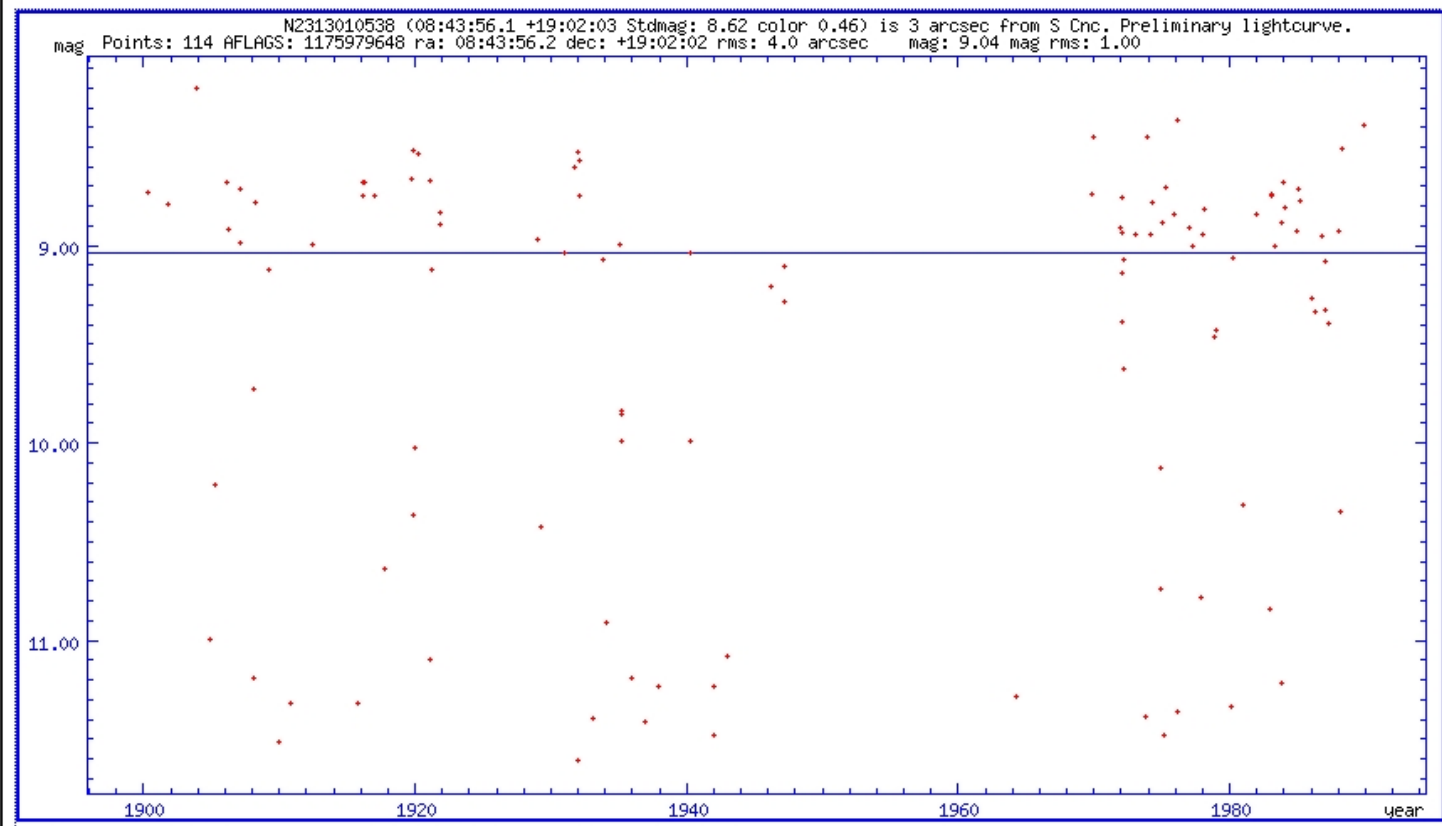
arcsec	Nobs	mag	id
3	1147	9.49	<a href="#">N2313010538</a>
22	3	11.95	<a href="#">DASCH_J084356.2+190225</a>
31	1	14.69	<a href="#">DASCH_J084354.0+190211</a>
32	1	14.76	<a href="#">DASCH_J084353.9+190159</a>
32	1	15.25	<a href="#">DASCH_J084358.3+190154</a>
35	1	16.64	<a href="#">DASCH_J084353.7+190205</a>
36	1	11.35	<a href="#">DASCH_J084356.2+190127</a>
36	6	11.65	<a href="#">DASCH_J084356.3+190239</a>

### Preliminary photometry data for N2313010538

13 Date 1909.968220 Mag 11.509911  
 Plate ac11176 Solution 0 spatial\_bin 1

Images are not available in this release.

- AFLAGS: 34603008(d) Star
- Bit: 20 Blend of multiple catalog stars
- Bit: 25 Plate Defect
- BFLAGS: 1349410818(d) Catalog: COLOR\_TYCHO
- Bit: 1 Blended with another
- Bit: 17 Calibrated with a lowess fit
- Bit: 18 Locally calibrated
- Bit: 19 Corrected for extinction
- Bit: 21 Valid color correction
- Bit: 22 Metropolis color search succeeded
- Bit: 28 Position adjusted by bin median errors
- Bit: 30 Corrected for proper motion



Click on points for more detailed information about the measurement.

[Data is in a Starbase table format. See the database contents page for definitions of column headers.](#)

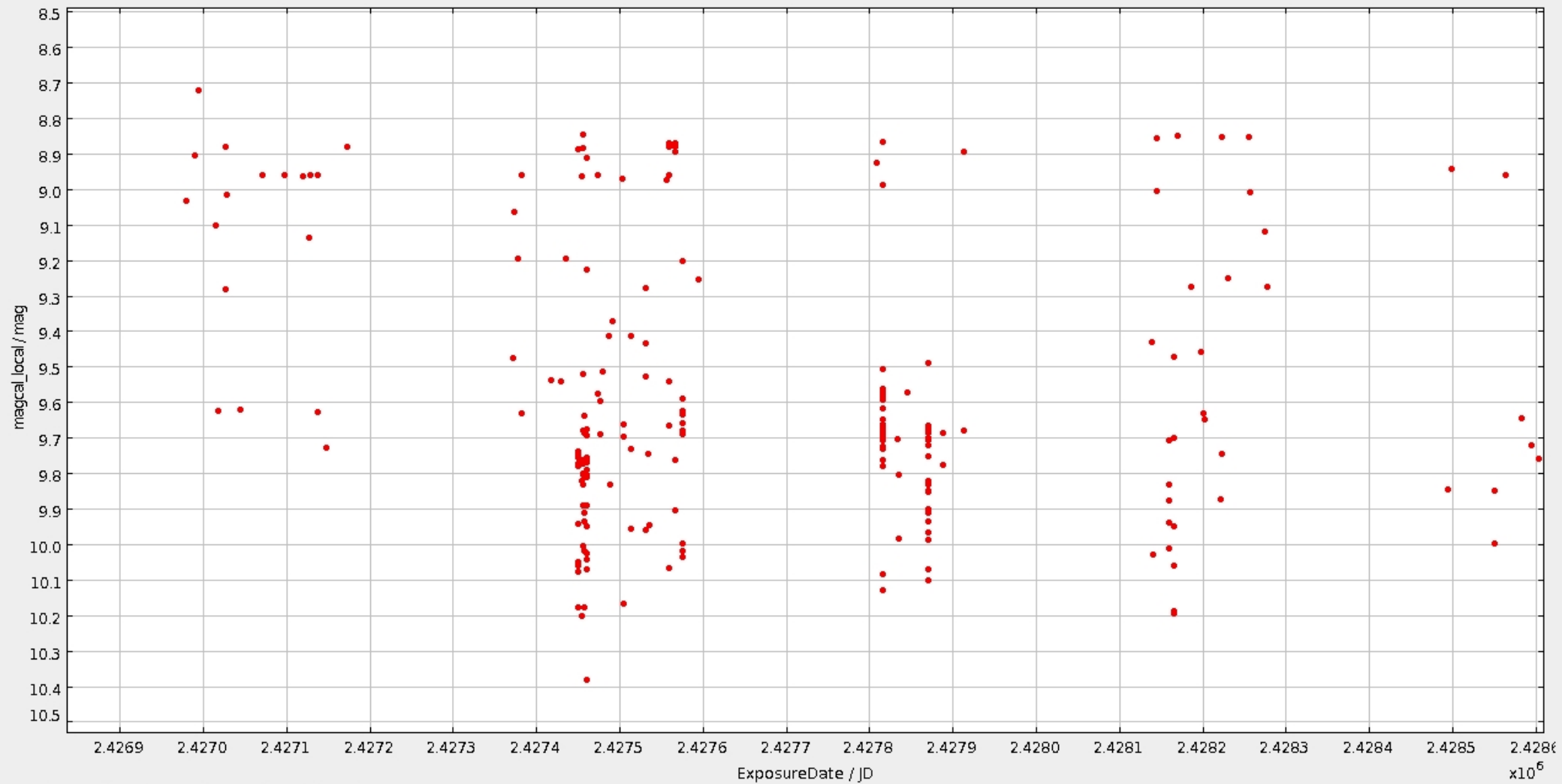
[Data is in VOTable format.](#)

from year  to year

Black points are the best quality. Red points have one or more issues. Buttons below control the display of red points: a button with bold type means that the point is plotted.

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## Main

## Data

Table: 1: N2313010538.xml

X Axis: ExposureDate  Log  FlipY Axis: magcal\_local  Log  Flip

## Row Subsets

 All 

Potential: 1,147 Included: 1,147 Visible: 234 Position: (2.427903E6, 10.41)

<http://hea-www.harvard.edu/DASCH/lightcurve.php>  
<http://hea-www.harvard.edu/DASCH/database.php>  
<http://www.astrouw.edu.pl/asas/>  
<http://www.star.bris.ac.uk/~mbt/topcat/>