



A LIST OF MINIMA AND MAXIMA TIMINGS

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October 2024

Abstract

The list contains 485 timings of minima of eclipsing and maxima of pulsating stars.

It continues the list published in BAVJ 0079 (Paschke, 2023) [1].

Observers

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Instruments and observatories used

35mm+G2-402= 35/135 mm telephoto lens, G2 camera Cabeça Fundão, Cabo Verde, remote

50mm+G2-402= 50/135 mm telephoto lens, G2 camera Cabeça Fundão, Cabo Verde, remote

50mm+ST7 = 50/135 mm telephoto lens, SBIG ST-7 camera, Carona TI, Switzerland, remote

40cm+ST8XME = 40cm telescope, SBIG ST-8 camera, Brussels, Belgium

20cm+ST8 = 20 cm Newton, SBIG ST-8, Brussels, Belgium

The Santa Barbara instruments Group ST7 camera uses a KAF-400 chip.

The Santa Barbara instruments Group ST8 camera uses a KAF-1600 chip.

The Moravian instruments G1-300 camera uses a Sony ICX 424AL chip.

The Moravian instruments G2-402 camera uses a KAF-402 chip.

The Moravian instruments G2-1600 camera uses a KAF-1600 chip.

Minima and maxima times

The CCD images have been processed by C-Munipack V1.0 written by David Motl [2]

Minimum timings observed by Paschke were estimated by fitting trigonometric polynomials up to order 3 to the data. Other observers used other methods. Table 1 lists minima and maxima of observed stars. The first column gives the stellar identification. GSC 1.2 catalog identifiers are abbreviated. The second column is the constellation. The third column (kind) gives the kind of extremum: p = primary, s = secondary, P = minimum of a pulsating star, R = maximum. The fourth column gives the Julian heliocentric date of the minimum or maximum. It is based on UTC, leap seconds included. In the case of TESS data it is TDB. Column 'Filter' gives information about the passband in which measurements were taken (ccd = unfiltered CCD, B = Johnson blue, V = Johnson visual, G = green, R = Cousins red, I Cousins Infrared, pe = photoelectric, TESS data). Column 'Error' gives the uncertainty of minima and maxima times. N is the number of measurements (CCD images) used. Finally, the instruments used and the name of the observer; in the case of survey data the person who processed the data.

Stars that have few published minima in O-C GATE [3] have been studied with KWS data [4] if necessary with TESS data [5].

Remarks on the Minima Time Determination

The program, written in Modula-2 by myself, works as follows: it takes the measurements (time, magnitude) and fits a trigonometric polynomials of third degree (t = time, y = magnitude)

$$y = k_0 + k_1 \sin(t) + k_2 \cos(t) + k_3 \sin(2t) + k_4 \cos(2t) + k_5 \sin(3t) + k_6 \cos(3t)$$

The parameters k are approximated by the method of conjugated gradients (Stiefel). The advantage of the method is, that it can be used for symmetrical, EW and asymmetrical RRab lightcurves as well. The result is the extremum of the curve calculated in steps of 0.001 days.

It is sometimes suggested that the error in determining the minimum may be smaller than the exposure time. However, based on current methodologies and typical exposure durations (e.g., 3 minutes), this does not appear to be the case.

The set of measurements, referred to as A, is duplicated and here labeled as B. For symmetrical curves the set B may be mirrored, preserving the time of minimum. Then there are calculated residuals, the distances of the measurement point to the fitted lightcurve. The scatter of the residuals is calculated using the Gaussian method. Now the program shifts the set B until a certain limit is reached. I use the double value of the original scatter but others may prefer 1 percent or 1 promile of likelihood. The value of the shift is used as the error of the measurement.

Table 1: Minima and Maxima of observed stars

ID	const	kind	HJD	Filter	Error	N	Instrument	Observer
AA	And	p	2460111.4726	V	0.0002	351	20cm+ST8XME	Dufour Sjoerd
BD	And	p	2460091.5309	V	0.0002	213	20cm+ST8XME	Dufour Sjoerd
BX	And	p	2460224.3068	V	0.0001	330	20cm+ST8XME	Dufour Sjoerd
LO	And	p	2460101.4714	V	0.0003	355	20cm+ST8XME	Dufour Sjoerd
QX	And	p	2460198.3760	V	0.0006	194	20cm+ST8XME	Dufour Sjoerd
V0547	And	p	2460211.3587	V	0.0005	228	20cm+ST8XME	Dufour Sjoerd

V0629	And	p	2460423.6221	V	0.0016	275	20cm+ST8XME	Dufour	Sjoerd
V0638	And	p	2460166.4221	V	0.0002	240	20cm+ST8XME	Dufour	Sjoerd
V0707	And	p	2460195.3669	V	0.0010	195	20cm+ST8XME	Dufour	Sjoerd
DX	Aqr	p	2460273.405	ccd	0.0040	228	35mm+G2-402	Paschke	Anton
V0346	Aql	p	2460112.507	ccd	0.0050	62	50mm+KAF400	Paschke	Anton
V1353	Aql	p	2460441.5370	V	0.0003	292	20cm+ST8XME	Dufour	Sjoerd
V1808	Aql	p	2460122.3850	ccd	0.0080	65	50mm+KAF400	Paschke	Anton
V1808	Aql	s	2460123.4440	ccd	0.0080	65	50mm+KAF400	Paschke	Anton
V1828	Aql	p	2460119.6148	V	0.0001	70	40cm+KAF1600	Dufour	Sjoerd
V1828	Aql	p	2460155.5967	V	0.0001	146	40cm+KAF1600	Dufour	Sjoerd
V1828	Aql	p	2460213.4381	V	0.0001	226	40cm+QHY268M	Dufour	Sjoerd
V1928	Aql	p	2460123.4440	ccd	0.0080	65	50mm+KAF400	Paschke	Anton
AG	Ari	p	2460196.5138	V	0.0008	489	20cm+ST8XME	Dufour	Sjoerd
BN	Ari	p	2460195.4799	V	0.0001	230	20cm+ST8XME	Dufour	Sjoerd
CX	Ari	p	2460233.3990	V	0.0003	180	20cm+ST8XME	Dufour	Sjoerd
ZZ	Aur	p	2460211.4896	V	0.0001	280	20cm+ST8XME	Dufour	Sjoerd
AP	Aur	p	2460195.6133	V	0.0002	174	20cm+ST8XME	Dufour	Sjoerd
HL	Aur	p	2460178.5657	V	0.0002	236	20cm+ST8XME	Dufour	Sjoerd
HP	Aur	p	2460221.4610	V	0.0002	281	20cm+ST8XME	Dufour	Sjoerd
V0608	Aur	p	2460370.5125	V	0.0001	378	40cm+QHY268M	Dufour	Sjoerd
G3362.02022	Aur	s	2460334.4140	V	0.0002	209	40cm+QHY268M	Dufour	Sjoerd
G3362.02022	Aur	s	2460417.4052	V	0.0003	146	40cm+QHY268M	Dufour	Sjoerd
XY	Boo	p	2460465.543	ccd	0.0050	77	35mm+G2-402	Paschke	Anton
XY	Boo	s	2460472.398	ccd	0.0050	37	35mm+G2-402	Paschke	Anton
AC	Boo	p	2460319.6066	V	0.0001	300	20cm+ST8XME	Dufour	Sjoerd
AC	Boo	p	2460434.5060	ccd	0.0030	80	35mm+G2-402	Paschke	Anton
AC	Boo	s	2460434.6830	ccd	0.0030	40	35mm+G2-402	Paschke	Anton
AD	Boo	p	2460320.5894	V	0.0002	453	20cm+ST8XME	Dufour	Sjoerd
AE	Boo	R	2460432.5040	ccd	0.0100	71	35mm+G2-402	Paschke	Anton
BW	Boo	p	2460466.4500	ccd	0.0070	112	35mm+G2-402	Paschke	Anton
CK	Boo	s	2460102.4180	ccd	0.0070	110	50mm+KAF402	Paschke	Anton
CK	Boo	p	2460102.595	ccd	0.0070	121	50mm+KAF402	Paschke	Anton
CK	Boo	s	2460450.452	ccd	0.0050	75	35mm+G2-402	Paschke	Anton
CK	Boo	p	2460450.632	ccd	0.0050	79	35mm+G2-402	Paschke	Anton
EF	Boo	p	2460377.3293	V	0.0002	360	20cm+ST8XME	Dufour	Sjoerd
EW	Boo	p	2460104.497	ccd	0.0050	132	35mm+G2-402	Paschke	Anton
FI	Boo	p	2460005.44230	V	0.0001	399	20cm+ST8XME	Dufour	Sjoerd
GK	Boo	s	2460331.58578	V	0.0001	242	40cm+QHY268M	Dufour	Sjoerd
GK	Boo	s	2460417.58445	V	0.0002	253	40cm+QHY268M	Dufour	Sjoerd
GK	Boo	p	2460466.55400	ccd	0.0040	78	35mm+G2-402	Paschke	Anton

GN	Boo	p	2460512.47100	ccd	0.0050	53	35mm+G2-402	Paschke Anton
GU	Boo	p	2460301.73783	V	0.0001	219	40cm+QHY268M	Dufour Sjoerd
GW	Boo	s	2460452.49200	ccd	0.0080	92	35mm+G2-402	Paschke Anton
GW	Boo	p	2460465.51200	ccd	0.0050	113	35mm+G2-402	Paschke Anton
GW	Boo	p	2460472.42100	ccd	0.0050	58	35mm+G2-402	Paschke Anton
MN	Boo	p	2460477.45500	ccd	0.0050	99	35mm+G2-402	Paschke Anton
NZ	Boo	p	2460428.54727	V	0.0002	171	40cm+QHY268M	Dufour Sjoerd
V0391	Boo	s	2460480.42700	ccd	0.0030	40	35mm+G2-402	Paschke Anton
SV	Cam	p	2460152.51470	V	0.0003	90	18cm+HC603	Glaisen Robert
AO	Cam	p	2460179.52840	V	0.0001	324	20cm+ST8XME	Dufour Sjoerd
NX	Cam	p	2460219.36869	V	0.0040	118	20cm+ST8XME	Dufour Sjoerd
V0470	Cam	p	2460213.65230	V	0.0001	99	40cm+QHY268M	Dufour Sjoerd
V0470	Cam	p	2460241.67670	V	0.0001	93	40cm+QHY268M	Dufour Sjoerd
V0470	Cam	p	2460263.48421	V	0.0001	142	40cm+QHY268M	Dufour Sjoerd
G4327.00640	Cam	p	2460300.38026	V	0.0002	92	40cm+QHY268M	Dufour Sjoerd
G4561.00647	Cam	p	2460334.64118	V	0.0001	365	40cm+QHY268M	Dufour Sjoerd
G4561.00647	Cam	p	2460367.40762	V	0.0001	285	40cm+QHY268M	Dufour Sjoerd
G4561.00647	Cam	p	2460388.38969	V	0.0005	226	40cm+QHY268M	Dufour Sjoerd
G4561.00647	Cam	p	2460452.44285	V	0.0015	228	40cm+QHY268M	Dufour Sjoerd
CU	Cnc	p	2460360.38814	V	0.0002	241	40cm+QHY268M	Dufour Sjoerd
NQ	Cnc	p	2460319.39256	V	0.0005	226	20cm+ST8XME	Dufour Sjoerd
VZ	CVn	p	2460004.45920	V	0.0002	340	20cm+ST8XME	Dufour Sjoerd
DE	CVn	p	2460124.51040	V	0.0001	232	40cm+KAF1600	Dufour Sjoerd
DE	CVn	p	2460331.70061	V	0.0001	222	40cm+QHY268M	Dufour Sjoerd
DE	CVn	p	2460360.46747	V	0.0001	223	40cm+QHY268M	Dufour Sjoerd
G3464.00273	CVn	p	2460368.57191	V	0.0001	179	40cm+QHY268M	Dufour Sjoerd
G3464.00273	CVn	p	2460457.47182	V	0.0001	192	40cm+QHY268M	Dufour Sjoerd
TX	Cma	p	2460358.47900	ccd	0.0030	315	35mm+G2-402	Paschke Anton
CX	Cma	p	2460369.51800	ccd	0.0080	336	35mm+G2-402	Paschke Anton
FZ	Cma	p	2460355.45300	ccd	0.0030	408	35mm+G2-402	Paschke Anton
CW	Cmi	p	2460233.64433	V	0.0008	208	20cm+ST8XME	Dufour Sjoerd
CW	Cas	p	2460104.46280	V	0.0001	343	20cm+ST8XME	Dufour Sjoerd
DO	Cas	p	2460194.35520	V	0.0002	475	20cm+ST8XME	Dufour Sjoerd
HT	Cas	p	2460267.47747	V	0.0001	286	40cm+QHY268M	Dufour Sjoerd
HT	Cas	p	2460294.57975	V	0.0001	172	40cm+QHY268M	Dufour Sjoerd
HT	Cas	s	2460361.37732	V	0.0001	122	40cm+QHY268M	Dufour Sjoerd
OX	Cas	p	2460131.47470	V	0.0003	480	20cm+ST8XME	Dufour Sjoerd
V0445	Cas	p	2460102.45450	V	0.0006	322	20cm+ST8XME	Dufour Sjoerd
V0459	Cas	p	2460093.52600	V	0.0004	164	20cm+ST8XME	Dufour Sjoerd
V0523	Cas	p	2460112.47390	V	0.0001	272	20cm+ST8XME	Dufour Sjoerd

V0651	Cas	p	2460129.47060	V	0.0001	338	20cm+ST8XME	Dufour	Sjoerd
V1297	Cas	p	2460429.57234	V	0.0004	385	20cm+ST8XME	Dufour	Sjoerd
V1297	Cas	p	2460453.55406	V	0.0001	423	20cm+ST8XME	Dufour	Sjoerd
V1300	Cas	s	2460084.53670	V	0.0011	247	20cm+ST8XME	Dufour	Sjoerd
V1305	Cas	p	2460193.35390	V	0.0011	181	20cm+ST8XME	Dufour	Sjoerd
V1322	Cas	p	2460196.37230	V	0.0009	248	20cm+ST8XME	Dufour	Sjoerd
V1330	Cas	p	2460192.46630	V	0.0022	224	18cm+HC603	Glaisen	Robert
V1337	Cas	p	2460197.36220	V	0.0003	251	20cm+ST8XME	Dufour	Sjoerd
V0498	Cen	p	2460467.47700	ccd	0.0030	55	35mm+G2-402	Paschke	Anton
V0742	Cen	p	2460412.43300	ccd	0.0030	100	35mm+G2-402	Paschke	Anton
V1071	Cen	p	2460435.47800	ccd	0.0040	85	35mm+G2-402	Paschke	Anton
EG	Cep	p	2460213.44690	V	0.0004	212	18cm+HC183	Glaisen	Robert
EK	Cep	p	2460145.44760	V	0.0002	84	18cm+HC603	Glaisen	Robert
GK	Cep	p	2460153.47270	V	0.0009	98	18cm+HC603	Glaisen	Robert
V0405	Cep	p	2460132.48970	V	0.0004	247	18cm+HC603	Glaisen	Robert
V0441	Cep	p	2460156.42170	V	0.0051	229	18cm+HC603	Glaisen	Robert
V0711	Cep	p	2460377.64110	V	0.0007	344	20cm+ST8XME	Dufour	Sjoerd
V0711	Cep	p	2460458.50293	V	0.0094	299	40cm+QHY268M	Dufour	Sjoerd
V0970	Cep	p	2460331.53018	V	0.0013	282	18cm+HC183	Glaisen	Robert
V1019	Cep	p	2460166.50610	V	0.0009	65	18cm+HC603	Glaisen	Robert
V1019	Cep	p	2460193.48720	V	0.0011	49	18cm+HC603	Glaisen	Robert
V1055	Cep	s	2460330.28436	V	0.0016	179	18cm+HC183	Glaisen	Robert
V1055	Cep	p	2460330.57176	V	0.0009	173	18cm+HC183	Glaisen	Robert
V1106	Cep	p	2460444.52183	V	0.0003	387	20cm+ST8XME	Dufour	Sjoerd
CzeV127	Cep	p	2460111.50000	ccd	0.0200	48	50mm+KAF400	Paschke	Anton
RW	Cet	p	2460272.46300	ccd	0.0030	85	35mm+G2-402	Paschke	Anton
TV	Cet	p	2460274.53300	ccd	0.0050	300	35mm+G2-402	Paschke	Anton
TW	Cet	p	2460266.44200	ccd	0.0010	25	35mm+G2-402	Paschke	Anton
TW	Cet	s	2460266.60000	ccd	0.0010	25	35mm+G2-402	Paschke	Anton
CL	Cet	p	2460278.39600	ccd	0.0100	120	35mm+G2-402	Paschke	Anton
G4686.02061	Cet	s	2460265.41300	ccd	0.0070	80	35mm+G2-402	Paschke	Anton
G4686.02061	Cet	p	2460276.46400	ccd	0.0060	125	35mm+G2-402	Paschke	Anton
SS	Com	p	2460006.45600	V	0.0002	248	20cm+ST8XME	Dufour	Sjoerd
LR	Com	p	2460377.44087	V	0.0002	243	20cm+ST8XME	Dufour	Sjoerd
BR	CrB	p	2460451.42900	ccd	0.0100	112	35mm+G2-402	Paschke	Anton
CL	CrB	p	2460048.38140	V	0.0005	240	20cm+ST8XME	Dufour	Sjoerd
DD	CrB	p	2460332.71093	V	0.0001	88	40cm+QHY268M	Dufour	Sjoerd
DD	CrB	p	2460388.52165	V	0.0001	157	40cm+QHY268M	Dufour	Sjoerd
DD	CrB	p	2460418.61094	V	0.0001	167	40cm+QHY268M	Dufour	Sjoerd
DD	CrB	p	2460434.46448	V	0.0001	224	40cm+QHY268M	Dufour	Sjoerd

RV	Crv	s	2460436.50500	ccd	-0.1070	120	35mm+G2-402	Paschke Anton
SX	Crv	s	2457076.56600	ccd	0.0050	58	50mm+KAF400	Paschke Anton
SX	Crv	s	2460436.40800	ccd	0.0030	46	35mm+G2-402	Paschke Anton
SX	Crv	p	2460436.56400	ccd	0.0030	44	35mm+G2-402	Paschke Anton
V	Crt	p	2460422.51200	ccd	0.0030	80	35mm+G2-402	Paschke Anton
AK	Crt	p	2460424.45100	ccd	0.0200	103	35mm+G2-402	Paschke Anton
AW	Crt	p	2460411.47400	ccd	0.0020	50	35mm+G2-402	Paschke Anton
V1083	Cyg	p	2459989.67580	V	0.0005	197	20cm+ST8XME	Dufour Sjoerd
V1305	Cyg	p	2460091.45070	V	0.0095	140	20cm+ST8XME	Dufour Sjoerd
V2364	Cyg	p	2460082.42690	V	0.0002	213	20cm+ST8XME	Dufour Sjoerd
V2364	Cyg	p	2460458.43243	V	0.0001	260	40cm+QHY268M	Dufour Sjoerd
V2551	Cyg	p	2460038.48330	V	0.0002	221	20cm+ST8XME	Dufour Sjoerd
V2646	Cyg	p	2460053.47670	V	0.0004	215	20cm+ST8XME	Dufour Sjoerd
V2846	Cyg	p	2459990.66230	V	0.0001	267	20cm+ST8XME	Dufour Sjoerd
V2846	Cyg	p	2460444.41957	V	0.0002	296	20cm+ST8XME	Dufour Sjoerd
V2922	Cyg	p	2460453.44553	V	0.0003	197	20cm+ST8XME	Dufour Sjoerd
V2940	Cyg	p	2460440.59523	V	0.0019	306	20cm+ST8XME	Dufour Sjoerd
V3182	Cyg	p	2460052.58890	V	0.0002	433	20cm+ST8XME	Dufour Sjoerd
V3182	Cyg	p	2460096.43880	V	0.0003	166	20cm+ST8XME	Dufour Sjoerd
LS	Del	p	2460081.53600	V	0.0009	480	20cm+ST8XME	Dufour Sjoerd
BV	Dra	p	2460320.48758	V	0.0003	199	20cm+ST8XME	Dufour Sjoerd
FU	Dra	p	2459984.39550	V	0.0002	214	20cm+ST8XME	Dufour Sjoerd
GM	Dra	p	2459984.50370	V	0.0002	545	20cm+ST8XME	Dufour Sjoerd
HL	Dra	p	2460319.68539	V	0.0005	674	20cm+ST8XME	Dufour Sjoerd
V0380	Dra	p	2460455.51376	V	0.0001	383	40cm+QHY268M	Dufour Sjoerd
V0423	Dra	p	2460429.48089	V	0.0088	115	20cm+ST8XME	Dufour Sjoerd
V0471	Dra	p	2459989.45120	V	0.0003	260	20cm+ST8XME	Dufour Sjoerd
V0564	Dra	p	2460455.46137	V	0.0001	345	40cm+QHY268M	Dufour Sjoerd
V0565	Dra	p	2460031.36120	V	0.0052	165	20cm+ST8XME	Dufour Sjoerd
V0584	Dra	p	2460320.71229	V	0.0002	181	20cm+ST8XME	Dufour Sjoerd
V0584	Dra	p	2460377.54183	V	0.0004	222	20cm+ST8XME	Dufour Sjoerd
G4402.00542	Dra	s	2460294.66222	V	0.0001	269	40cm+QHY268M	Dufour Sjoerd
G4402.00542	Dra	s	2460332.52042	V	0.0001	144	40cm+QHY268M	Dufour Sjoerd
G4402.00542	Dra	s	2460370.37723	V	0.0003	240	40cm+QHY268M	Dufour Sjoerd
G4402.00542	Dra	s	2460417.50663	V	0.0001	217	40cm+QHY268M	Dufour Sjoerd
G4402.00542	Dra	s	2460449.57029	V	0.0001	332	40cm+QHY268M	Dufour Sjoerd
V0390	Gem	p	2459983.32110	V	0.0002	242	20cm+ST8XME	Dufour Sjoerd
V0437	Gem	p	2460194.59730	V	0.0001	250	20cm+ST8XME	Dufour Sjoerd
SZ	Her	p	2460509.54300	ccd	0.0010	61	35mm+G2-402	Paschke Anton
TX	Her	p	2459990.58080	V	0.0001	480	20cm+ST8XME	Dufour Sjoerd

CC	Her	p	2460471.61800	ccd	0.0050	69	35mm+G2-402	Paschke Anton
HS	Her	p	2460483.51700	ccd	0.0050	183	35mm+G2-402	Paschke Anton
HS	Her	s	2460510.54900	ccd	0.0200	96	35mm+G2-402	Paschke Anton
V1024	Her	p	2460457.56442	V	0.0001	227	40cm+QHY268M	Dufour Sjoerd
V1035	Her	p	2460004.57550	V	0.0002	210	20cm+ST8XME	Dufour Sjoerd
V1036	Her	p	2459989.58360	V	0.0002	194	20cm+ST8XME	Dufour Sjoerd
V1043	Her	p	2460428.46427	V	0.0002	175	40cm+QHY268M	Dufour Sjoerd
V1045	Her	p	2460053.36570	V	0.0003	210	20cm+ST8XME	Dufour Sjoerd
V1049	Her	s	2460441.39284	V	0.0146	229	20cm+ST8XME	Dufour Sjoerd
V1064	Her	p	2460005.59360	V	0.0003	175	20cm+ST8XME	Dufour Sjoerd
V1097	Her	p	2460031.49900	V	0.0001	277	20cm+ST8XME	Dufour Sjoerd
V1100	Her	p	2460429.37996	V	0.0007	136	20cm+ST8XME	Dufour Sjoerd
V1185	Her	p	2459983.55230	V	0.0002	224	20cm+ST8XME	Dufour Sjoerd
V1320	Her	p	2460048.52480	V	0.0006	223	20cm+ST8XME	Dufour Sjoerd
V1455	Her	p	2460471.57500	ccd	0.0080	110	35mm+G2-402	Paschke Anton
G3064.01209	Her	p	2460449.48332	V	0.0006	302	40cm+QHY268M	Dufour Sjoerd
G3095.01495	Her	p	2460430.48728	V	0.0003	281	40cm+QHY268M	Dufour Sjoerd
263-128286	Her	p	2460360.56445	V	0.0004	169	40cm+QHY268M	Dufour Sjoerd
VY	Hya	p	2460439.43600	ccd	0.0050	89	35mm+G2-402	Paschke Anton
DF	Hya	p	2459990.34560	V	0.0001	337	20cm+ST8XME	Dufour Sjoerd
V0648	Hya	s	2460339.43973	V	0.0001	352	40cm+QHY268M	Dufour Sjoerd
V0648	Hya	s	2460418.41173	V	0.0002	260	40cm+QHY268M	Dufour Sjoerd
SW	Lac	p	2460067.54300	V	0.0001	493	20cm+ST8XME	Dufour Sjoerd
V0505	Lac	p	2460469.50873	V	0.0002	260	20cm+ST8XME	Dufour Sjoerd
V0663	Lac	p	2460107.49180	V	0.0009	283	20cm+ST8XME	Dufour Sjoerd
V0675	Lac	p	2460031.62550	V	0.0002	272	20cm+ST8XME	Dufour Sjoerd
V0675	Lac	p	2460048.61700	V	0.0002	203	20cm+ST8XME	Dufour Sjoerd
V0678	Lac	p	2460100.46210	V	0.0005	579	20cm+ST8XME	Dufour Sjoerd
V0882	Lac	p	2460082.58520	V	0.0007	200	20cm+ST8XME	Dufour Sjoerd
G3214.02188	Lac	p	2460267.32176	V	0.0001	404	40cm+QHY268M	Dufour Sjoerd
XY	Leo	p	2460319.46904	V	0.0001	118	20cm+ST8XME	Dufour Sjoerd
ET	Leo	p	2459991.39550	V	0.0005	291	20cm+ST8XME	Dufour Sjoerd
PT	Leo	p	2460005.32430	V	0.0002	187	20cm+ST8XME	Dufour Sjoerd
QZ	Leo	p	2459990.45160	V	0.0002	228	20cm+ST8XME	Dufour Sjoerd
200-119407	Leo	p	2460429.45890	V	0.0001	106	40cm+QHY268M	Dufour Sjoerd
UW	LMi	p	2460416.58500	ccd	0.0050	134	35mm+G2-402	Paschke Anton
UX	LMi	R	2460416.49800	ccd	0.0070	105	35mm+G2-402	Paschke Anton
VW	LMi	p	2460006.33620	V	0.0002	440	20cm+ST8XME	Dufour Sjoerd
XY	LMi	s	2460425.46700	ccd	0.0100	105	35mm+G2-402	Paschke Anton
AG	LMi	p	2460320.38523	V	0.0002	244	20cm+ST8XME	Dufour Sjoerd

V	Lep	p	2460366.40900	ccd	0.0050	100	35mm+G2-402	Paschke Anton
IL	Lib	p	2460484.51600	ccd	0.0050	93	35mm+G2-402	Paschke Anton
IT	Lib	p	2460105.54400	ccd	0.0100	380	35mm+G2-402	Paschke Anton
IT	Lib	p	2460486.47100	ccd	0.0100	104	35mm+G2-402	Paschke Anton
LZ	Lib	s	2460437.49100	ccd	0.0040	35	35mm+G2-402	Paschke Anton
LZ	Lib	p	2460437.66200	ccd	0.0050	50	35mm+G2-402	Paschke Anton
CN	Lyn	p	2460219.61785	V	0.0003	501	20cm+ST8XME	Dufour Sjoerd
CW	Lyn	p	2460192.59190	V	0.0008	280	20cm+ST8XME	Dufour Sjoerd
MO	Lyn	s	2460219.45810	V	0.0008	284	20cm+ST8XME	Dufour Sjoerd
G2499.00246	Lyn	p	2460339.70518	V	0.0001	195	40cm+QHY268M	Dufour Sjoerd
G2499.00246	Lyn	p	2460368.69467	V	0.0002	190	40cm+QHY268M	Dufour Sjoerd
V0658	Lyr	p	2460003.62880	V	0.0002	322	20cm+ST8XME	Dufour Sjoerd
V0658	Lyr	p	2460318.69054	V	0.0002	279	20cm+ST8XME	Dufour Sjoerd
V0854	Lyr	p	2460067.42080	V	0.0003	290	20cm+ST8XME	Dufour Sjoerd
V0864	Mon	p	2459984.31060	V	0.0001	228	20cm+ST8XME	Dufour Sjoerd
V1008	Mon	s	2460211.61190	V	0.0003	269	20cm+ST8XME	Dufour Sjoerd
G4835.00106	Mon	p	2460410.42600	ccd	0.0050	133	35mm+G2-402	Paschke Anton
G5385.01987	Mon	p	2460355.41000	ccd	0.0090	401	35mm+G2-402	Paschke Anton
G5385.01987	Mon	p	2460378.42300	ccd	0.0050	130	35mm+G2-402	Paschke Anton
WZ	Oph	s	2460492.52900	ccd	0.0040	123	35mm+G2-402	Paschke Anton
V0456	Oph	p	2460117.48300	ccd	0.0001	80	35mm+G2-402	Paschke Anton
V0501	Oph	p	2460084.44110	V	0.0003	158	20cm+ST8XME	Dufour Sjoerd
V0735	Oph	p	2460103.59200	ccd	0.0080	260	35mm+G2-402	Paschke Anton
V0735	Oph	p	2460462.57500	ccd	0.0080	122	35mm+G2-402	Paschke Anton
V1010	Oph	p	2460481.48400	ccd	0.0100	233	35mm+G2-402	Paschke Anton
V2553	Oph	p	2459984.68540	V	0.0001	324	20cm+ST8XME	Dufour Sjoerd
V2553	Oph	p	2460440.46795	V	0.0007	167	20cm+ST8XME	Dufour Sjoerd
CzeV468	Oph	s	2460473.51900	ccd	0.0080	148	35mm+G2-402	Paschke Anton
FT	Ori	p	2460197.64120	V	0.0001	355	20cm+ST8XME	Dufour Sjoerd
V1848	Ori	p	2460319.28387	V	0.0001	197	20cm+ST8XME	Dufour Sjoerd
V2802	Ori	p	2460198.55747	V	0.0005	246	20cm+ST8XME	Dufour Sjoerd
DK	Peg	p	2460179.41830	V	0.0003	238	20cm+ST8XME	Dufour Sjoerd
DY	Peg	R	2460268.42100	ccd	0.0020	90	50mm+KAF400	Paschke Anton
V0351	Peg	p	2460270.32600	ccd	0.0100	119	50mm+KAF400	Paschke Anton
V0478	Peg	p	2460088.49810	V	0.0004	319	20cm+ST8XME	Dufour Sjoerd
V0481	Peg	p	2460090.52230	V	0.0004	254	20cm+ST8XME	Dufour Sjoerd
V0576	Peg	p	2460170.41590	V	0.0002	155	20cm+ST8XME	Dufour Sjoerd
V0576	Peg	p	2460473.51320	V	0.0001	178	20cm+ST8XME	Dufour Sjoerd
G2209.00606	Peg	p	2460283.42400	ccd	0.0050	104	35mm+G2-402	Paschke Anton
BR	Per	p	2460197.48980	V	0.0004	241	20cm+ST8XME	Dufour Sjoerd

IT	Per	p	2460192.36740	V	0.0013	178	20cm+ST8XME	Dufour	Sjoerd
V0570	Per	p	2460221.35374	V	0.0003	570	20cm+ST8XME	Dufour	Sjoerd
V0740	Per	p	2460192.45350	V	0.0001	234	20cm+ST8XME	Dufour	Sjoerd
V0873	Per	p	2460217.36249	V	0.0004	268	20cm+ST8XME	Dufour	Sjoerd
V0959	Per	p	2460167.53860	V	0.0002	315	20cm+ST8XME	Dufour	Sjoerd
V1107	Per	p	2460193.47930	V	0.0004	223	20cm+ST8XME	Dufour	Sjoerd
AQ	Psc	p	2460198.47250	V	0.0003	380	20cm+ST8XME	Dufour	Sjoerd
CP	Psc	s	2460212.40761	V	0.0039	195	20cm+ST8XME	Dufour	Sjoerd
DV	Psc	p	2460121.57000	V	0.0001	328	40cm+KAF1600	Dufour	Sjoerd
DV	Psc	p	2460129.59100	V	0.0001	342	40cm+KAF1600	Dufour	Sjoerd
DV	Psc	p	2460214.44428	V	0.0001	410	40cm+QHY268M	Dufour	Sjoerd
DV	Psc	p	2460241.59540	V	0.0001	193	40cm+QHY268M	Dufour	Sjoerd
LO	Psc	p	2460167.39910	V	0.0003	229	20cm+ST8XME	Dufour	Sjoerd
SDSS-0110	Psc	s	2460263.59792	V	0.0001	38	40cm+QHY268M	Dufour	Sjoerd
V	Pup	p	2460360.55900	ccd	0.0040	839	35mm+G2-402	Paschke	Anton
AU	Pup	p	2460389.48500	ccd	0.0001	131	35mm+G2-402	Paschke	Anton
AW	Pup	p	2460377.59300	ccd	0.0080	221	35mm+G2-402	Paschke	Anton
AZ	Pup	p	2460405.45900	ccd	0.0030	101	35mm+G2-402	Paschke	Anton
EQ	Pup	p	2460371.47800	ccd	0.0100	318	35mm+G2-402	Paschke	Anton
V0366	Pup	p	2460357.49000	ccd	0.0040	93	35mm+G2-402	Paschke	Anton
V0366	Pup	p	2460367.42600	ccd	0.0040	173	35mm+G2-402	Paschke	Anton
V0582	Pup	p	2460390.35300	ccd	0.0200	100	35mm+G2-402	Paschke	Anton
V0610	Pup	p	2460384.52500	ccd	0.0050	124	35mm+G2-402	Paschke	Anton
G6569.00393	Pup	s	2460407.52800	ccd	0.0100	113	35mm+G2-402	Paschke	Anton
G6569.00393	Pup	p	2460413.43500	ccd	0.0100	81	35mm+G2-402	Paschke	Anton
TX	Pyx	p	2460404.43600	ccd	0.0030	92	35mm+G2-402	Paschke	Anton
CW	Sge	p	2460090.46470	V	0.0010	160	20cm+ST8XME	Dufour	Sjoerd
V0415	Sge	p	2460469.44090	V	0.0001	245	20cm+ST8XME	Dufour	Sjoerd
SX	Sgr	p	2459078.07100	V	0.0200	157	KWS	Paschke	Anton
WY	Sgr	p	2460497.13300	V	0.0200	278	KWS	Paschke	Anton
WY	Sgr	s	2460513.51500	V	0.0300	285	KWS	Paschke	Anton
XY	Sgr	p	2459677.21500	V	0.0100	109	KWS	Paschke	Anton
YY	Sgr	s	2460493.54000	ccd	0.0040	55	35mm+G2-402	Paschke	Anton
V0505	Sgr	p	2460503.54300	ccd	0.0010	75	35mm+G2-402	Paschke	Anton
V0525	Sgr	p	2460516.47900	ccd	0.0070	82	35mm+G2-402	Paschke	Anton
V0766	Sgr	p	2460375.10000	V	0.0100	190	KWS	Paschke	Anton
V1173	Sgr	p	2460498.22300	V	0.0200	185	KWS	Paschke	Anton
V3792	Sgr	s	2460447.14500	V	0.0200	270	KWS	Paschke	Anton
V3792	Sgr	p	2460448.28600	V	0.0200	300	KWS	Paschke	Anton
V4396	Sgr	p	2460496.57300	ccd	0.0040	101	35mm+G2-402	Paschke	Anton

V5643	Sgr	p	2460497.46700	ccd	0.0080	98	35mm+G2-402	Paschke Anton
V0453	Sco	s	2458660.76623	pe	0.0447	200	TESS	Schmutz Werner
V0453	Sco	p	2458666.73401	pe	0.0189	200	TESS	Schmutz Werner
V0453	Sco	s	2458672.80977	pe	0.0158	200	TESS	Schmutz Werner
V0453	Sco	p	2458678.83540	pe	0.0203	200	TESS	Schmutz Werner
V0453	Sco	s	2459368.96342	pe	0.0214	600	TESS	Schmutz Werner
V0453	Sco	p	2459375.31107	pe	0.0131	600	TESS	Schmutz Werner
V0453	Sco	s	2459381.13358	pe	0.0234	600	TESS	Schmutz Werner
V0453	Sco	p	2459387.31098	pe	0.0116	600	TESS	Schmutz Werner
V0453	Sco	p	2460035.63700	V,Ic	0.0200	457	KWS	Paschke Anton
V0453	Sco	s	2460101.41623	pe	0.0061	1800	TESS	Schmutz Werner
V0453	Sco	p	2460107.48940	pe	0.0084	1800	TESS	Schmutz Werner
V0453	Sco	s	2460113.45502	pe	0.0062	1800	TESS	Schmutz Werner
V0453	Sco	p	2460119.53705	pe	0.0110	1800	TESS	Schmutz Werner
V0453	Sco	s	2460161.53800	V,Ic	0.0200	417	KWS	Paschke Anton
V0701	Sco	p	2460507.51700	ccd	0.0070	99	35mm+G2-402	Paschke Anton
V0760	Sco	p	2460113.57900	ccd	0.0050	566	35mm+G2-402	Paschke Anton
V0760	Sco	s	2460474.50300	ccd	0.0100	182	35mm+G2-402	Paschke Anton
V0764	Sco	p	2458655.43977	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	s	2458656.21112	pe	0.0011	200	TESS	Schmutz Werner
V0764	Sco	p	2458656.98247	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	s	2458657.75375	pe	0.0012	200	TESS	Schmutz Werner
V0764	Sco	p	2458658.52511	pe	0.0012	200	TESS	Schmutz Werner
V0764	Sco	s	2458659.29643	pe	0.0012	200	TESS	Schmutz Werner
V0764	Sco	p	2458660.06767	pe	0.0012	200	TESS	Schmutz Werner
V0764	Sco	s	2458660.83903	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	p	2458661.61039	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	s	2458662.38163	pe	0.0012	200	TESS	Schmutz Werner
V0764	Sco	p	2458663.15292	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	s	2458663.92435	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	p	2458664.69558	pe	0.0012	200	TESS	Schmutz Werner
V0764	Sco	s	2458665.46687	pe	0.0011	200	TESS	Schmutz Werner
V0764	Sco	p	2458666.23820	pe	0.0012	200	TESS	Schmutz Werner
V0764	Sco	s	2458667.00958	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	p	2458669.32350	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	s	2458670.09487	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	p	2458670.86612	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	s	2458671.63740	pe	0.0013	200	TESS	Schmutz Werner
V0764	Sco	p	2458672.40878	pe	0.0012	200	TESS	Schmutz Werner
V0764	Sco	s	2458673.18009	pe	0.0013	200	TESS	Schmutz Werner

V0764	Sco	p	2458673.95136	pe	0.0013	200	TESS	Schmutz	Werner
V0764	Sco	s	2458674.72269	pe	0.0013	200	TESS	Schmutz	Werner
V0764	Sco	p	2458675.49398	pe	0.0014	200	TESS	Schmutz	Werner
V0764	Sco	s	2458676.26538	pe	0.0013	200	TESS	Schmutz	Werner
V0764	Sco	p	2458677.03665	pe	0.0013	200	TESS	Schmutz	Werner
V0764	Sco	s	2458677.80799	pe	0.0013	200	TESS	Schmutz	Werner
V0764	Sco	p	2458678.57931	pe	0.0013	200	TESS	Schmutz	Werner
V0764	Sco	s	2458679.35066	pe	0.0013	200	TESS	Schmutz	Werner
V0764	Sco	p	2458680.12191	pe	0.0012	200	TESS	Schmutz	Werner
V0764	Sco	s	2458680.89323	pe	0.0012	200	TESS	Schmutz	Werner
V0764	Sco	p	2458681.66455	pe	0.0012	200	TESS	Schmutz	Werner
V0764	Sco	p	2459361.96541	pe	0.0008	600	TESS	Schmutz	Werner
V0764	Sco	s	2459362.73677	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459363.50803	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459364.27942	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459365.05069	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459365.82204	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459366.59338	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459367.36465	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459368.13535	pe	0.0074	600	TESS	Schmutz	Werner
V0764	Sco	s	2459368.90730	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459369.67858	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459370.44992	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459371.22121	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459371.99256	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459372.76384	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459373.53521	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459374.30645	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459376.62048	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459377.39175	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459378.16310	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459378.93439	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459379.70576	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459380.47703	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459381.24836	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459382.01960	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459382.78962	pe	0.0058	600	TESS	Schmutz	Werner
V0764	Sco	p	2459383.56230	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459384.33365	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459385.10485	pe	0.0007	600	TESS	Schmutz	Werner

V0764	Sco	s	2459385.87624	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459386.64755	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459387.41886	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2459388.19000	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	s	2459388.96154	pe	0.0007	600	TESS	Schmutz	Werner
V0764	Sco	p	2460097.80095	pe	0.0006	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460098.57241	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460099.34372	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460100.11504	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460100.88633	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460101.65767	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460102.42894	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460103.20030	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460103.97159	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460104.74336	pe	0.0005	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460105.51422	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460106.28559	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460107.05686	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460107.82821	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460108.59948	pe	0.0005	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460109.37084	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460110.14213	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460110.91345	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460111.68481	pe	0.0005	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460112.45611	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460113.22735	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460113.99872	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460114.77000	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460115.54139	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460116.31263	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460117.08400	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460117.85522	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460118.62658	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460119.39747	pe	0.0005	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460120.16928	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460120.94050	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460121.71188	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460122.48317	pe	0.0004	1800	TESS	Schmutz	Werner
V0764	Sco	s	2460123.25450	pe	0.0006	1800	TESS	Schmutz	Werner
V0764	Sco	p	2460124.02584	pe	0.0005	1800	TESS	Schmutz	Werner

V0907	Sco	p	2460487.63200	ccd	0.0090	59	35mm+G2-402	Paschke Anton
V0954	Sco	p	2460490.48800	ccd	0.0080	198	35mm+G2-402	Paschke Anton
V1055	Sco	p	2460116.42600	ccd	0.0080	115	35mm+G2-402	Paschke Anton
V1288	Sco	p	2460489.47400	ccd	0.0050	98	35mm+G2-402	Paschke Anton
V1305	Sco	s	2460504.49100	ccd	0.0050	99	35mm+G2-402	Paschke Anton
V1430	Sco	R	2456519.92700	V,Ic	0.0030	200	KWS	Paschke Anton
V1430	Sco	R	2457240.91900	V,Ic	0.0030	352	KWS	Paschke Anton
V1430	Sco	R	2457992.90700	V,Ic	0.0030	299	KWS	Paschke Anton
V1430	Sco	R	2458690.94100	V,Ic	0.0030	120	KWS	Paschke Anton
V1430	Sco	R	2459431.95400	V,Ic	0.0030	132	KWS	Paschke Anton
V1430	Sco	R	2460160.98900	V,Ic	0.0030	101	KWS	Paschke Anton
V1430	Sco	R	2460502.46600	ccd	0.0010	30	35mm+G2-402	Paschke Anton
V1430	Sco	R	2460502.54900	ccd	0.0010	32	35mm+G2-402	Paschke Anton
V1430	Sco	R	2460502.63400	ccd	0.0010	38	35mm+G2-402	Paschke Anton
AS	Ser	p	2459983.65960	V	0.0001	223	20cm+ST8XME	Dufour Sjoerd
AV	Ser	R	2460429.68200	ccd	0.0040	66	35mm+G2-402	Paschke Anton
NN	Ser	p	2460110.59410	C	0.0006	120	40cm+KAF1600	Dufour Sjoerd
V0335	Ser	s	2460469.54700	ccd	0.0050	236	35mm+G2-402	Paschke Anton
G0914.01096	Ser	p	2460475.57200	ccd	0.0200	66	35mm+G2-402	Paschke Anton
SW	Sex	p	2460271.69666	V	0.0001	75	40cm+QHY268M	Dufour Sjoerd
SW	Sex	p	2460331.47476	V	0.0002	179	40cm+QHY268M	Dufour Sjoerd
EQ	Tau	p	2460170.54100	V	0.0002	249	20cm+ST8XME	Dufour Sjoerd
GW	Tau	p	2460224.42392	V	0.0002	209	20cm+ST8XME	Dufour Sjoerd
V1061	Tau	p	2460193.60160	V	0.0005	514	20cm+ST8XME	Dufour Sjoerd
V1123	Tau	p	2460212.48795	V	0.0002	273	20cm+ST8XME	Dufour Sjoerd
BX	Tri	p	2460271.46880	V	0.0002	318	40cm+QHY268M	Dufour Sjoerd
BX	Tri	p	2460331.37834	V	0.0003	218	40cm+QHY268M	Dufour Sjoerd
XZ	UMa	p	2460217.60078	V	0.0003	242	20cm+ST8XME	Dufour Sjoerd
BS	UMa	p	2460297.57218	V	0.0001	263	40cm+QHY268M	Dufour Sjoerd
BS	UMa	p	2460418.50307	V	0.0001	234	40cm+QHY268M	Dufour Sjoerd
HH	UMa	p	2460281.52674	V	0.0006	235	40cm+QHY268M	Dufour Sjoerd
HN	UMa	p	2459989.32720	V	0.0009	260	20cm+ST8XME	Dufour Sjoerd
PW	UMa	p	2460233.54889	V	0.0006	231	20cm+ST8XME	Dufour Sjoerd
V0354	UMa	p	2459983.45170	V	0.0003	248	20cm+ST8XME	Dufour Sjoerd
G3798.01207	UMa	p	2460388.66236	V	0.0003	196	40cm+QHY268M	Dufour Sjoerd
LP133-373	UMa	p	2460454.56230	V	0.0009	158	40cm+QHY268M	Dufour Sjoerd
GG	Vel	p	2460385.52000	ccd	0.0200	213	35mm+G2-402	Paschke Anton
GT	Vel	p	2460383.48500	ccd	0.0030	212	35mm+G2-402	Paschke Anton
V0362	Vel	p	2460403.40600	ccd	0.0050	55	35mm+G2-402	Paschke Anton
UW	Vir	p	2460430.48200	ccd	0.0020	26	35mm+G2-402	Paschke Anton

AH	Vir	p	2460417.40700	ccd	-0.0894	58	35mm+G2-402	Paschke Anton
AH	Vir	s	2460417.61200	ccd	-0.0894	70	35mm+G2-402	Paschke Anton
FO	Vir	p	2460443.47100	ccd	0.0070	320	35mm+G2-402	Paschke Anton
GR	Vir	p	2460449.49900	V	0.0080	102	35mm+G2-402	Paschke Anton
HW	Vir	p	2460084.49040	V	0.0001	365	40cm+KAF1600	Dufour Sjoerd
HW	Vir	p	2460297.73531	V	0.0001	281	40cm+QHY268M	Dufour Sjoerd
LU	Vir	p	2460427.42300	ccd	0.0050	70	35mm+G2-402	Paschke Anton
LU	Vir	p	2460477.63100	ccd	0.0100	80	35mm+G2-402	Paschke Anton
MS	Vir	s	2460431.41800	ccd	0.0070	48	35mm+G2-402	Paschke Anton
MS	Vir	p	2460463.44100	ccd	0.0060	62	35mm+G2-402	Paschke Anton
MS	Vir	s	2460463.60100	ccd	0.0070	45	35mm+G2-402	Paschke Anton
NN	Vir	s	2460442.47400	ccd	0.0020	65	35mm+G2-402	Paschke Anton
NY	Vir	p	2460078.48010	V	0.0001	211	40cm+KAF1600	Dufour Sjoerd
NY	Vir	p	2460078.58120	V	0.0001	211	40cm+KAF1600	Dufour Sjoerd
NY	Vir	p	2460110.50460	V	0.0001	93	40cm+KAF1600	Dufour Sjoerd
NY	Vir	p	2460118.48560	V	0.0001	109	40cm+KAF1600	Dufour Sjoerd
NY	Vir	p	2460300.71483	V	0.0001	121	40cm+QHY268M	Dufour Sjoerd
NY	Vir	p	2460332.63588	V	0.0001	143	40cm+QHY268M	Dufour Sjoerd
NY	Vir	p	2460367.58727	V	0.0001	361	40cm+QHY268M	Dufour Sjoerd
NY	Vir	p	2460452.54154	V	0.0001	282	40cm+QHY268M	Dufour Sjoerd
NZ	Vir	p	2460448.42700	ccd	0.0050	45	35mm+G2-402	Paschke Anton
PY	Vir	s	2460433.44400	ccd	0.0020	32	35mm+G2-402	Paschke Anton
PY	Vir	p	2460433.59900	ccd	0.0020	42	35mm+G2-402	Paschke Anton
QS	Vir	p	2460079.52110	V	0.0001	217	40cm+KAF1600	Dufour Sjoerd
QS	Vir	p	2460360.68357	V	0.0001	151	40cm+QHY268M	Dufour Sjoerd
V0338	Vir	p	2460418.60000	ccd	0.0100	112	35mm+G2-402	Paschke Anton
V0338	Vir	p	2460445.53000	ccd	0.0100	117	35mm+G2-402	Paschke Anton
V0467	Vir	p	2460447.47500	ccd	0.0060	160	35mm+G2-402	Paschke Anton
V0614	Vir	p	2460419.48400	ccd	0.0010	55	35mm+G2-402	Paschke Anton
V0700	Vir	p	2460119.47700	ccd	0.0040	130	35mm+G2-402	Paschke Anton
V0722	Vir	p	2460440.61600	ccd	0.0002	00	35mm+G2-402	Paschke Anton
V0739	Vir	p	2460115.47900	ccd	0.0030	140	35mm+G2-402	Paschke Anton
V0739	Vir	p	2460444.47100	ccd	0.0040	86	35mm+G2-402	Paschke Anton
G0869.00690	Vir	s	2460417.48500	ccd	0.0070	70	35mm+G2-402	Paschke Anton
G0869.00690	Vir	p	2460417.68400	ccd	0.0080	70	35mm+G2-402	Paschke Anton
G5540.01181	Vir	p	2460418.42400	ccd	0.0100	60	35mm+G2-402	Paschke Anton
G6141.00561	Vir	s	2460463.38200	ccd	0.0100	38	35mm+G2-402	Paschke Anton
G6141.00561	Vir	p	2460463.63500	ccd	0.0120	21	35mm+G2-402	Paschke Anton
G6142.00787	Vir	p	2460463.54000	ccd	0.0100	51	35mm+G2-402	Paschke Anton

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