



# Werkgroep Veranderlijke Sterren

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 \* V A R I A B I L I A \*  
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 \* nummer 17 APRIL 1987 \*  
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 \* Redaktie: \*  
 \* H.Feijth \*  
 \* Oer de Feart 7 \*  
 \* 9084 BP Goutum \*  
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## Waarnemingsresultaten eerste kwartaal 1987

In het eerste kwartaal van dit jaar werden in totaal 1961 schattingen verricht, hetgeen een goed resultaat genoemd mag worden. De resultaten zijn als volgt:

		JAN	FEB	MRT
BMU R.J. Bouma	Groningen	47	40	19
BVE E. van Ballegoy	Druten	59	14	21
CMG G.Comello	Roden	36	137	
FJH H. Feijth	Goutum	288	328	276
GEJ J. Geenen	Weert	2		1
JUR T.A.Jurriens	Groningen		1	
KER P.C.A.Kerkvliet	Sassenheim		4	7
KPG G. Kuipers	Zuidhorn	167	165	200
LJO J.O. Luurs	Amsterdam	25	17	20
MED D.Meijer	Stadskanaal		2	
NWL W. Nobel	Amsterdam	21		25
SEN P. Serne	Amsterdam	14	9	16
<b>Totaal</b>		<b>659</b>	<b>717</b>	<b>585</b>

Beschrijving typen volgens de nieuwste catalogus van Kholopov et al. (Obsjtsjij Katalog Peremennych Zvezd, Moskva, 1985). Hierbij besteden wij alleen aandacht aan die typen, waartoe de meeste sterren behoren die wij waarnemen.

A. Pulserende veranderlijken. Voor ons zijn van belang de Mira-sterren en de halfregelmatigen.

### Mira-sterren

Deze zijn rode reuzensterren met karakteristieke emissielijnen van waterstof. De amplitude bedraagt 2.5 tot 11 magnituden en de periode 80-1000 dagen.

### Type SR (halfregelmatig)

Deze zijn reuzen of superreuzen met een "laat" spektrum (bv. M), die een periode hebben van 20-2000 dagen en een amplitude van minder dan 2.5 grootteklassen. Men maakt een onderverdeling in SRa (gedraagt zich als een Mira-ster met een kleine amplitude), SRb (reuzenster die een lichtwisseling vertoont als gevolg van een combinatie van twee of meer perioden), SRc (superreus met hetzelfde type lichtwisseling als SRb).

## B.kataklysmische veranderlijken

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Dit zijn veranderlijken die uitbarstingen ondergaan als gevolg van thermonucleaire processen in de buitenste lagen onder de oppervlakte ( novae en dwergnovae ) of in de kern ( supernovae ).

### Type N (novae)

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Novae zijn nauwe dubbelstersystemen met perioden tussen 0.05 en 230 dagen. De ene component is een hete dwergster die plotseling met tussenpozen van 10 dagen of meer 7 tot 19 magnituden in helderheid toeneemt en daarna min of meer gelijkmatig in dagen of jaren terugkeert tot de oorspronkelijke toestand. In het minimum is de helderheid soms veranderlijk. De andere component kan zijn een reuzenster, subreus of dwerg met spektrum K of M.

Novae worden onderverdeeld in de volgende klassen:

Na: neemt drie magnituden na het maximum af in minder dan 100 dagen.

Nb: heeft minstens 150 dagen nodig om 3 magnituden na het maximum af te nemen.

Nc: nova met een traag verloop waarbij het maximum een decennium kan duren.

Nl: nova-achtige veranderlijken. deze zijn veranderlijken die qua spektrum op een nova lijken. Veelal betreft het sterren die onvoldoende bestudeerd zijn.

Nr: recurrente novae. Deze onderscheiden zich van novae doordat ze minstens twee uitbarstingen per eeuw ondergaan.

### Type UG (dwergnovae)

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Deze zijn ook dubbelstersystemen zoals de novae. De omlooptijd is begrepen tussen 0.05 en 0.5 dag. Ook hier is de actieve component een witte dwerg, die wordt omgeven door een ring van materie die afkomstig is van de andere component, die een dwerg of een subreus is met spektrum K of M.

UGSS: Nemen 2-6 grootteklassen toe 1 of 2 dagen. De cyclus duurt 10 tot 1000 dagen.

UGSU: Deze hebben kortere cycli (<100 d) en worden gekenmerkt door zg. supermaxima, waarbij de ster 1m helderder is dan in een normaal maximum en waarvan de duur ongeveer een cyclus bedraagt.

UGZ : Deze verschillen van het type UGSS doordat ze na een maximum gedurende enige tijd ( tot meer dan een jaar ) vrijwel constant van helderheid blijft bij een waarde die ongeveer een magnitude zwakker is dan de maximale.

In deze tabel is een overzicht van 404 sterren gegeven. Voor iedere ster is de naam, harvardnummer en type gegeven. Zie voor een beschrijving van de types de Sterrengids 1987. Al deze sterren zijn in de periode 1981-1986 waargenomen.

R And 001838	Mira	S CMi 072708	Mira	X Del 205017	Mira	RS Lyr 190933A	Mira	RR Tau 053326	INAS
T And 001726	Mira	T CMi 072811	Mira	Y Del 203611	Mira	RT Lyr 185737	Mira	RU Tau 054615C	Mira
U And 010940	Mira	U CMi 073508	Mira	Z Del 202817	Mira	RU Lyr 190941	Mira	RX Tau 043208	Mira
V And 004435	Mira	V CMi 070109	Mira	RX Del 202512	Mira	RW Lyr 184243	Mira	SU Tau 054319	RCB
W And 021143A	Mira	R Cap 2005-14	Mira	RZ Del 202611	Mira	RX Lyr 185032	Mira	IK Tau 034711	Mira
X And 001046	Mira	T Cap 2116-15	Mira	SS Del 203513	Mira	RY Lyr 184134	Mira	R Tri 023033	Mira
Y And 013338	Mira	R Cas 235350	Mira	AG Del 202918	Mira	SS Lyr 191046	Mira	R UMa 103769	Mira
Z And 232848	Z And	S Cas 011272	Mira	ES Del 203918	Mira	ST Lyr 190643	Mira	S UMa 123961	Mira
RR And 004533	Mira	T Cas 001755	Mira	HR Del 203718	Nb	TW Lyr 182039	Mira	T UMa 123160	Mira
RU And 013238	SRa	U Cas 004047	Mira	R Dra 163266	Mira	TY Lyr 190527	Mira	X UMa 083350	Mira
RW And 004132	Mira	V Cas 230759	Mira	S Dra 164055	SRb	UV Lyr 190627A	Mira	Z UMa 115158	SRb
RX And 005840	UGZ	W Cas 004958	Mira	T Dra 175458A	Mira	VZ Lyr 190529B	Mira	RR UMa 132262	Mira
RY And 231539	Mira	X Cas 014958	Mira	U Dra 190967	Mira	WZ Lyr 185947	Mira	RS UMa 123459	Mira
SV And 235939	Mira	Y Cas 235855A	Mira	V Dra 175654	Mira	AN Lyr 191831	Mira	RU UMa 113639	Mira
SX And 012746	Mira	Z Cas 233956	Mira	W Dra 180565	Mira	MV Lyr 190443	NL	SU UMa 080362	UGSU
SZ And 225542	Mira	RR Cas 235053	Mira	X Dra 180666	Mira	V Mon 0617-02	Mira	VY UMa 103867	SR
TU And 002725A	Mira	RZ Cas 004746A	Mira	Y Dra 093178	Mira	Y Mon 065111	Mira	CH UMa 095968	UGSS
UW And 000928	Mira	SS Cas 000451	Mira	RT Dra 182172	Mira	RR Mon 071201	Mira	R UMi 163172	SRa
UZ And 011041A	Mira	TY Cas 003162	Mira	RV Dra 123366	Mira	RS Mon 070205	Mira	S UMi 153378A	Mira
YZ And 002230	Mira	VZ Cas 011055A	Mira	RY Dra 125266	SRb	R Oph 1702-15	Mira	T UMi 133273	Mira
AR And 013937	UGSS	WY Cas 235255	Mira	SV Dra 183149A	Mira	W Oph 1616-07	Mira	U UMi 141567	Mira
BG And 232642	Mira	HTCas 010359	UGSS+EA	UX Dra 192576	SR	X Oph 183308	Mira	V UMi 133674	SRb
BU And 231839	Mira	IZ Cas 004746B	SR	AG Dra 160167	Z And	Z Oph 171401	Mira	X UMi 120587	Mira
N86And 230746	Na	S Cep 213678	Mira	AO Dra 164272	SR	RS Oph 1744-06	Nd	R Vir 123307	Mira
R Aqr 2338-15	Mira	T Cep 210868	Mira	DZ Dra 113772	UGZ	RT Oph 175111	Mira	S Vir 1327-06	Mira
T Aqr 2044-05	Mira	X Cep 210382	Mira	R Equ 210812	Mira	RU Oph 172809A	Mira	T Vir 1209-05	Mira
W Aqr 2041-04	Mira	Y Cep 003179	Mira	Z Equ 210409	Mira	RY Oph 181103	Mira	U Vir 124606	Mira
Y Aqr 2039-05	Mira	Z Cep 021281	Mira	RR Equ 210405	Mira	SS Oph 1652-02	Mira	V Vir 1322-02	Mira
RR Aqr 2109-03	Mira	RR Cep 022980	Mira	SN1986 0444-06	SN	AY Oph 181406	Mira	Y Vir 1228-03	Mira
RS Aqr 2105-04	Mira	RU Cep 010884	SR	R Gem 070122A	Mira	BC Oph 181306	Mira	Z Vir 1405-12	Mira
R Aql 190108	Mira	AR Cep 225384	SR	S Gem 073723	Mira	R Ori 045307	Mira	RS Vir 142205	Mira
W Aql 1910-07	Mira	BF Cep 202962	Mira	T Gem 074323	Mira	S Ori 0524-04	Mira	RU Vir 124204	Mira
X Aql 194604	Mira	R Cet 0220-00	Mira	U Gem 074922	UGSS+E	U Ori 054920A	Mira	SS Vir 122001	Mira
Z Aql 2009-06	Mira	S Cet 0019-09	Mira	V Gem 071713	Mira	V Ori 050003A	Mira	SU Vir 120012	Mira
RR Aql 1952-02	Mira	U Cet 0228-13	Mira	X Gem 064030	Mira	X Ori 0532-01	Mira	SY Vir 1353-04	Mira
RS Aql 1953-08	Mira	V Cet 2352-09	Mira	ST Gem 073234	Mira	RR Ori 055716	Mira	R Vul 205923A	Mira
RT Aql 193311	Mira	W Cet 2357-15	Mira	WZ Gem 071026	Mira	BK Ori 052607	Mira	PU Vul 201621	NL
RU Aql 200812	Mira	X Cet 0314-01	Mira	IR Gem 064128	UGSU	R Peg 230110	Mira	PW Vul 192227	Nb
RV Aql 193509	Mira	Z Cet 0101-02	Mira	R Her 160118	Mira	S Peg 231508	Mira	QU Vul 202227	Na
SY Aql 200212	Mira	Mira 0214-03	Mira	S Her 164715	Mira	T Peg 220412	Mira	YZ Vul 194027	Mira
TU Aql 192201	Mira	R Com 115919	Mira	T Her 180531	Mira	V Peg 215605	Mira		
R Ari 021024	Mira	R Crv 1214-18	Mira	U Her 162119	Mira	W Peg 231425	Mira		
S Ari 015912	Mira	V Crv 1235-17	Mira	W Her 163137	Mira	X Peg 211614	Mira		
T Ari 024217	SRa	R CrB 154428A	RCB	RS Her 171723	Mira	Y Peg 220613	Mira		
U Ari 030514	Mira	S CrB 151731	Mira	RT Her 170627A	Mira	Z Peg 235525	Mira		
Z Ari 030226	Mira	T CrB 155526	Nd	RU Her 160625	Mira	RR Peg 214024	Mira		
R Aur 050953	Mira	V CrB 154639	Mira	RV Her 165631	Mira	RS Peg 220714	Mira		
S Aur 052034	SRa	W CrB 161138	Mira	RY Her 175519	Mira	RT Peg 215934	Mira		
U Aur 053531	Mira	X CrB 154536	Mira	RZ Her 183225	Mira	RU Peg 220912	UGSS		
V Aur 061647	Mira	Z CrB 155229	Mira	SS Her 162807A	Mira	RV Peg 222129	Mira		
W Aur 052036	Mira	RR CrB 153738	SRb	SV Her 182224	Mira	RW Peg 225914	Mira		
X Aur 060450	Mira	TT CrB 154428B	SRb	SY Her 165722	Mira	RZ Peg 220133B	Mira		
RR Aur 060443	Mira	P Cyg 201537	NL	TV Her 181031	Mira	SS Peg 222924	Mira		
RU Aur 053337	Mira	R Cyg 193449	Mira	U Her 164012	Mira	SX Peg 224517	Mira		
SS Aur 060547	UGSS	S Cyg 200357	Mira	VY Her 170217	Mira	SW Peg 211721	Mira		
ST Aur 060746A	Mira	T Cyg 204334	IB	AE Her 183922	Mira	TU Peg 214012	Mira		
SZ Aur 053538	Mira	U Cyg 201647	Mira	AH Her 164025	UGZ	TV Peg 212216	Mira		
VX Aur 072141	Mira	V Cyg 203847	Mira	AM Her 181349	AM+XR+E	UU Peg 212610	Mira		
AA Aur 063444A	Mira	Z Cyg 195849	Mira	AS Her 163414	Mira	AG Peg 214612	Z And		
AZ Aur 055439	Mira	RS Cyg 200938	SRa	AZ Her 181828	Mira	AN Peg 210612	Mira		
R Boo 143227	Mira	RT Cyg 194048	Mira	DN Her 160710	Mira	AS Peg 210818	Mira		
S Boo 141954	Mira	RU Cyg 213753	SR	N87Her 183915	N	FF Peg 233109	Mira		
V Boo 142539	SRa	SS Cyg 213843	UGSS	R Hya 1324-22	Mira	IP Peg 231817	UGSS+E		
Z Boo 140113	Mira	ST Cyg 202954	Mira	S Hya 084803	Mira	R Per 032335	Mira		
RR Boo 144339	Mira	SX Cyg 201130	Mira	T Hya 0850-08	Mira	S Per 021558	SRc		
RT Boo 151336	Mira	TU Cyg 194348	Mira	R Lac 223841	Mira	U Per 015254	Mira		
R Cam 142584	Mira	TW Cyg 210129	Mira	S Lac 222439	Mira	Y Per 032043	Mira		
T Cam 043065	Mira	TY Cyg 192928	Mira	R Leo 094211	Mira	RR Per 022150	Mira		
V Cam 054974	Mira	UX Cyg 205030A	Mira	S Leo 110506	Mira	RX Per 034532	Mira		
W Cam 061275	Mira	WX Cyg 201437B	Mira	V Leo 095421	Mira	RZ Per 012350	Mira		
X Cam 043274	Mira	WY Cyg 214443	Mira	W Leo 104814	Mira	TZ Per 020657A	UGZ		
Z Cam 081473	UGZ	AF Cyg 192745	SRb	X Leo 094512	UGSS	GK Per 032443	Na		
RT Cam 062564	Mira	AU Cyg 201434	Mira	RS Leo 093720	Mira	KT Per 013050	UGZ		
SU Cam 062574	Mira	BF Cyg 192029	Z And	RY Leo 095814	SRb	R Psc 012502	Mira		
R Cnc 081112	Mira	BG Cyg 193428	Mira	R Lep 0455-14	Mira	S Psc 011208	Mira		
T Cnc 085120	SRa	BU Cyg 200250	Mira	T Lep 0500-22	Mira	U Psc 011712	Mira		
U Cnc 083019	Mira	CH Cyg 192150	Z And	R LMi 093934	Mira	X Psc 010621A	Mira		
V Cnc 081617	Mira	CM Cyg 195551	Mira	S LMi 094735	Mira	RX Psc 012020	Mira		
W Cnc 090425	Mira	CN Cyg 201559	Mira	Y Lib 1506-05	Mira	R Sct 1842-05	RV		
X Cnc 084917	SRb	CU Cyg 195055	Mira	R Lyn 065355	Mira	W Sge 191517	Mira		
RR Cnc 080523	Mira	DR Cyg 203937	Mira	S Lyn 063558	Mira	TX Sge 195818	Mira		
SY Cnc 085518	UGZ	FF Cyg 203537	Mira	T Lyn 081633	Mira	RZ Sge 200317	NR		
UY Cnc 083013	Mira	V369Cy 193954	Mira	U Lyn 063159	Mira	R Ser 154615	Mira		
YZ Cnc 080428	UGSU	V1760C 213831	Mira	W Lyn 081040	Mira	S Ser 151714	Mira		
R CVn 134440	Mira	ChiCyg 194632	Mira	X Lyn 081935	Mira	T Ser 182306	Mira		
T CVn 122532	Mira	N86Cyg 195035	N	RT Lyn 080837	Mira	U Ser 160210	Mira		
U CVn 124238	Mira	R Del 201008	Mira	S Lyr 180925	Mira	S Sex 102900	Mira		
RT CVn 134434	Mira	S Del 203816	Mira	U Lyr 191637	Mira	R Tau 042209	Mira		
TX CVn 123937	Z And	T Del 204016	Mira	V Lyr 190529A	Mira	S Tau 042309	Mira		
HLCMa0640-16UGSS+XM		U Del 204017	Lb	W Lyr 181136	Mira	V Tau 044617	Mira		
R CMi 070310	Mira	V Del 204318	Mira	Z Lyr 185634	Mira	Z Tau 054615A	Mira		

Deze sterren zijn in de periode 1981-1986 minimaal 40 keer per jaar waargenomen. Deze waarnemingen zijn in BASICODE verkrijgbaar bij de waarnemingsleider H. Feijth. U kunt er dan wellicht zelf mee gaan rekenen. Gaarne aangeven welke U wenst en een bandje meesturen.

AA AUR	CHI CYG	MIRA	
N86 AND	N86 CYG	PU VUL	PW VUL
QU VUL	R AND	R AQL	R ARI
R AUR	R BOO	R CAM	R CAS
R CNC	R CRB	R CVN	R CYG
R DRA	R EQU	R GEM	R LEO
R LMI	R LYN	R PER	R SER
RS HER	RS UMA	RT CYG	R TRI
RU HER	R UMA	RU PEG	RV CAS
RW PEG	RX AND	RY HER	RY LYR
S BOO	S CAS	S CEP	S CMI
S CRB	S GEM	S HER	S LMI
S LYN	S PEG	SS AUR	SS CAS
SS CYG	S UMA	S UMI	SU TAU
SY HER	SZ AUR	T AND	T CAM
T CAS	T CEP	T DEL	T GEM
T HER	TU AND	TU CYG	T UMA
T UMI	TV HER	U CAS	U CYG
U GEM	U HER	U LYR	U ORI
U PER	U SER	U UMI	V BOO
V CAS	V CNC	V CRB	V DRA
V LEO	W AND	W CAS	W CRB
W DRA	W HER	W LYR	W PEG
WY CAS	X AND	X AUR	X CAM
X CRB	X DEL	X GEM	Y PER
Z CAM	Z CYG	Z DEL	Z PEG
Z UMA			

Totaal 104 sterren.



6847.3	115	KPG	6824.3	33	FJH	6847.3	69	MED	Type: Na	6867.5	97	BVE		
6847.6	109	KER	6824.4	33	BVE	6847.3	70	KPG	6797.30	118	BMU	6875.3	99	KPG
6848.6	115	SEN	6825.3	31	KPG	6847.3	76	CMG	6798.46	112	BVE	6880.5	108	FJH
6850.4	118	FJH	6825.3	32	CMG	6860.3	74	KPG	6799.28	119	BMU	6884.3	104	KPG
6860.3	110	KPG	6827.3	29	BMU	6867.4	78	KER	6826.26	129	BMU	-----	-----	-----
6864.5	103	KER	6837.3	30	FJH	6867.4	79	NWL	6827.3	133	KPG	043208	RX	Tau
6866.3	105	FJH	6846.2	31	BMU	6885.3	89	NWL	6828.44	133	FJH	Type: Mira	-----	-----
6866.4	107	NWL	6846.3	30	MED	-----	-----	-----	6846.43	130	FJH	6824.4	142	FJH
6867.4	104	SEN	6846.3	31	FJH	024217	T	Ari	6852.3	132	BMU	6825.3	142	KPG
-----	-----	-----	6846.3	31	KPG	Type: SRa	-----	-----	-----	-----	-----	6828.3	142	FJH
015912	S	Ari	6847.3	29	JUR	6822.3	95	LJO	034532	RX	Per	6844.3	140	FJH
Type: Mira	-----	-----	6850.4	30	CMG	6822.4	94	NWL	Type: Mira	-----	-----	6847.4	137	CMG
6825.3	149	FJH	6860.3	33	KPG	6826.4	98	BVE	6822.4	110	FJH	6852.3	134	FJH
-----	-----	-----	6867.3	32	BMU	6827.3	98	KPG	6837.3	110	FJH	6852.3	136	KPG
020657A	TZ	Per	-----	-----	-----	6847.3	101	CMG	6846.4	111	FJH	6860.3	132	FJH
Type: UGZ	-----	-----	021558	S	Per	6847.3	103	KPG	6859.3	112	FJH	6875.3	129	FJH
6822.36	134	FJH	Type: SRc	-----	-----	-----	-----	-----	6866.3	117	FJH	-----	-----	-----
6826.44	135	FJH	6824.4	94	SEN	030514	U	Ari	6884.3	124	FJH	043274	X	Cam
6828.43	134	FJH	6847.6	102	KER	Type: Mira	-----	-----	-----	-----	-----	Type: Mira	-----	-----
6846.42	132	FJH	6847.6	102	NWL	6825.3	149	FJH	034711	IK	Tau	6799.3	92	BMU
6847.34	132	FJH	6848.6	: 94	SEN	6846.3	147	FJH	Type: Mira	-----	-----	6807.4	85	FJH
6850.36	132	FJH	6866.4	100	NWL	6850.4	146	CMG	6852.3	138	KPG	6825.3	79	KPG
6859.33	132	FJH	6867.4	101	KER	-----	-----	-----	-----	-----	-----	6826.4	79	FJH
6866.36	129	FJH	6867.5	94	SEN	0314-01	X	Cet	042209	R	Tau	6826.4	85	BVE
-----	-----	-----	-----	-----	-----	Type: Mira	-----	-----	Type: Mira	-----	-----	6846.3	84	KPG
021024	R	Ari	0220-00	R	Cet	6799.3	109	CMG	6824.3	123	FJH	6846.5	91	BVE
Type: Mira	-----	-----	Type: Mira	-----	-----	6825.3	117	KPG	6825.3	127	KPG	6847.4	87	CMG
6807.3	114	FJH	6799.3	103	CMG	6847.3	118	KPG	6829.4	129	FJH	6850.3	89	FJH
6822.3	124	FJH	6825.3	119	KPG	6850.4	118	CMG	6844.4	114	FJH	6858.3	91	KPG
6825.3	128	KPG	6850.4	122	CMG	-----	-----	-----	6846.3	110	KPG	6860.3	94	BVE
6828.3	127	FJH	-----	-----	-----	032043	Y	Per	6847.4	109	CMG	6862.3	97	FJH
6837.3	132	FJH	022150	RR	Per	Type: Mira	-----	-----	6852.3	102	FJH	6866.3	99	KPG
6844.3	137	FJH	Type: Mira	-----	-----	6798.5	104	BVE	6859.3	97	FJH	6867.5	99	BVE
6846.3	132	KPG	6822.3	134	FJH	6799.3	102	BMU	6860.3	94	KPG	6875.3	113	KPG
6847.3	139	CMG	6825.3	136	KPG	6822.4	:106	NWL	6866.3	91	FJH	-----	-----	-----
6852.3	138	BMU	6829.4	132	FJH	6824.4	110	BVE	-----	-----	-----	0444-06	SN1986	-----
6852.3	139	FJH	6846.4	131	FJH	6827.3	103	LJO	042309	S	Tau	Type: SN	-----	-----
-----	-----	-----	6847.3	133	CMG	6847.3	108	CMG	Type: Mira	-----	-----	6797.3	153	CMG
021143A	W	And	6852.3	132	KPG	6852.3	108	BMU	6822.4	104	FJH	6798.41:152	BMU	-----
Type: Mira	-----	-----	6860.3	127	KPG	6860.3	103	BVE	6825.3	104	KPG	-----	-----	-----
6799.3	127	FJH	6866.3	122	FJH	6867.4	96	KER	6829.4	105	FJH	044617	V	Tau
6822.3	129	FJH	-----	-----	-----	6867.4	97	NWL	6844.4	109	FJH	Type: Mira	-----	-----
6825.3	128	KPG	0228-13	U	Cet	6885.3	97	NWL	6846.3	108	KPG	6822.4	126	FJH
6828.3	129	FJH	Type: Mira	-----	-----	6885.3	101	BVE	6847.4	110	CMG	6824.4	122	KPG
6837.3	130	FJH	6799.3	95	CMG	-----	-----	-----	6852.3	110	FJH	6828.3	121	FJH
6846.3	132	FJH	6850.3	89	BMU	032335	R	Per	6859.3	110	FJH	6844.4	114	FJH
6847.3	129	CMG	-----	-----	-----	Type: Mira	-----	-----	6860.3	111	KPG	6846.3	110	KPG
6850.3	129	KPG	022980	RR	Cep	6807.4	94	FJH	6866.3	113	FJH	6847.4	110	CMG
6860.3	132	FJH	Type: Mira	-----	-----	6822.3	86	LJO	-----	-----	-----	6852.3	113	FJH
-----	-----	-----	6822.3	136	FJH	6825.3	92	KPG	043065	T	Cam	6859.3	110	FJH
021281	Z	Cep	6829.4	136	FJH	6826.3	91	BVE	Type: Mira	-----	-----	6860.3	110	KPG
Type: Mira	-----	-----	6846.3	141	FJH	6826.4	93	FJH	6807.4	86	FJH	6866.3	109	FJH
6825.4	144	FJH	6847.3	122	CMG	6837.3	96	FJH	6825.3	88	KPG	-----	-----	-----
6846.3	132	FJH	6875.5	:148	FJH	6844.3	94	BMU	6826.4	88	BVE	045307	R	Ori
6847.3	130	CMG	6885.4	:152	FJH	6846.3	93	KPG	6826.4	88	FJH	Type: Mira	-----	-----
6860.4	121	FJH	-----	-----	-----	6847.3	96	CMG	6827.2	85	LJO	6825.3	103	KPG
6875.4	121	FJH	023033	R	Tri	6850.3	98	FJH	6846.3	92	KPG	6846.3	105	KPG
6885.4	121	FJH	Type: Mira	-----	-----	6852.3	98	BMU	6846.5	91	BVE	6847.4	111	CMG
-----	-----	-----	6822.3	60	LJO	6859.3	104	FJH	6847.4	97	CMG	6860.3	111	KPG
0214-03	Mira	-----	6822.4	65	NWL	6860.3	105	KPG	6850.3	94	FJH	-----	-----	-----
Type: Mira	-----	-----	6824.4	60	BVE	6866.3	112	FJH	6858.3	94	KPG	0455-14	R	Lep
6799.3	53	CMG	6826.3	62	GEJ	6884.3	126	FJH	6860.3	94	BVE	Type: Mira	-----	-----
6799.3	58	BMU	6826.3	63	KPG	-----	-----	-----	6862.3	97	FJH	6827.3	81	KPG
6822.3	31	BMU	6827.3	64	BMU	032443	GK	Per	6866.3	96	KPG	6850.3	82	KPG

6852.3	79	BMU	6824.39	122	KPG	6829.4	:155	FJH	-----	6799.5	118	FJH		
-----			6825.33	119	KPG	6844.4	:155	FJH	055716	RR	Ori	6824.4	131	FJH
050003A	V	Ori	6826.32	123	KPG	6846.3	156	CMG	Type: Mira			6844.4	:143	FJH
Type: Mira			6827.33	123	KPG	6846.3	:156	FJH	6825.3	128	KPG	6850.5	<150	FJH
6825.3	107	KPG	6846.27	123	KPG	6847.4	156	FJH	6850.4	140	CMG	6852.3	<150	FJH
6846.3	98	KPG	6847.29	128	KPG	6850.4	156	FJH	6852.3	139	KPG	-----		
6847.4	95	CMG	6850.36	129	KPG	6852.3	155	FJH	-----			061275	W	Cam
6860.3	93	KPG	6851.4	107	CMG	6875.3	136	FJH	060443	RR	Aur	Type: Mira		
-----			6852.28	132	KPG	6882.4	130	FJH	Type: Mira			6850.4	108	CMG
050953	R	Aur	6858.32	138	KPG	6884.3	129	FJH	6824.4	118	KPG	-----		
Type: Mira			6860.30	:138	KPG	-----			6825.3	117	FJH	061647	V	Aur
6825.3	90	KPG	6885.33	134	KPG	054615A	Z	Tau	6833.6	121	FJH	Type: Mira		
6826.4	91	BVE	-----			Type: Mira			6846.4	124	FJH	6827.3	121	KPG
6826.4	92	FJH	053337	RU	Aur	6824.4	136	FJH	6847.3	128	KPG	6828.4	112	BVE
6846.4	97	KPG	Type: Mira			6828.3	137	FJH	6847.4	129	CMG	6846.3	120	KPG
6846.5	95	BVE	6799.5	96	FJH	6846.3	137	FJH	6852.4	126	FJH	6847.4	123	CMG
6847.4	110	CMG	6824.4	91	KPG	6847.4	134	CMG	6859.3	130	FJH	6850.5	125	FJH
6850.5	106	FJH	6825.3	87	FJH	6852.3	136	KPG	6860.3	130	KPG	6858.3	115	KPG
6858.3	101	KPG	6837.4	93	FJH	6852.3	137	FJH	6875.3	134	FJH	6866.3	120	FJH
6860.3	105	BVE	6846.3	95	KPG	6860.3	134	FJH	-----			-----		
6862.3	110	FJH	6846.4	99	FJH	-----			060450	X	Aur	0617-02	V	Mon
6866.3	108	KPG	6847.4	96	CMG	054615C	RU	Tau	Type: Mira			Type: Mira		
6875.3	110	KPG	6858.3	98	KPG	Type: Mira			6825.3	120	KPG	6827.4	133	KPG
6884.3	116	KPG	6859.3	103	FJH	6824.4	:152	FJH	6826.4	117	BVE	6847.3	139	CMG
-----			6866.3	99	KPG	6846.3	<150	FJH	6833.6	117	FJH	6850.4	136	KPG
052034	S	Aur	6866.3	106	FJH	-----			6846.3	116	KPG	6851.3	109	FJH
Type: SRa			6875.3	108	FJH	054920A	U	Ori	6846.5	112	BVE	6882.4	103	FJH
6827.3	113	KPG	6884.3	107	KPG	Type: Mira			6847.4	115	CMG	6850.4	130	CMG
6846.4	118	KPG	-----			6798.4	78	LJO	6850.5	115	FJH	6851.3	129	FJH
6858.3	114	KPG	053531	U	Aur	6800.6	84	NWL	6858.3	108	KPG	6860.4	127	FJH
6866.3	118	KPG	Type: Mira			6822.3	89	LJO	6860.3	109	BVE	6882.4	108	FJH
6875.3	118	KPG	6799.5	125	FJH	6824.4	87	KPG	6866.3	109	KPG	-----		
6884.3	119	KPG	6824.4	120	KPG	6824.5	95	NWL	6884.3	101	KPG	062564	RT	Cam
-----			6826.4	111	FJH	6826.4	91	BVE	-----			Type: Mira		
052036	W	Aur	6837.4	98	FJH	6828.5	90	FJH	060547	SS	Aur	6826.3	119	KPG
Type: Mira			6846.3	85	KPG	6846.3	97	KPG	Type: UGSS			6847.3	125	KPG
6799.5	125	FJH	6847.4	89	CMG	6846.5	95	BVE	6822.28	119	FJH	6847.4	124	CMG
6824.4	135	FJH	6850.3	88	FJH	6847.4	103	CMG	6824.34	130	FJH	6850.5	124	FJH
6824.4	139	KPG	6858.3	82	KPG	6852.3	103	LJO	6824.39	131	KPG	6860.5	131	FJH
6829.4	138	FJH	6866.3	83	KPG	6858.4	106	LJO	6825.33	141	KPG	-----		
6844.4	143	FJH	6866.3	85	FJH	6860.3	105	BVE	6825.39	140	FJH	062574	SU	Cam
6847.4	144	CMG	6885.3	84	KPG	6860.3	105	KPG	6826.44	145	FJH	Type: Mira		
6850.4	145	KPG	-----			6866.3	106	FJH	6827.3	149	KPG	6850.4	99	CMG
6852.3	143	FJH	053538	SZ	Aur	6866.4	:101	NWL	6827.50	148	FJH	6852.4	104	FJH
6860.3	144	FJH	Type: Mira			6870.3	110	LJO	6828.44	147	FJH	6862.3	105	FJH
6875.3	144	FJH	6824.4	105	KPG	6882.4	108	FJH	6829.43	150	FJH	-----		
6884.3	:147	FJH	6825.3	105	FJH	-----			6844.38	149	FJH	063159	U	Lyn
-----			6837.4	110	FJH	054974	V	Cam	6846.43	149	FJH	Type: Mira		
0524-04	S	Ori	6846.3	112	KPG	Type: Mira			6847.36	149	FJH	6807.5	103	FJH
Type: Mira			6846.4	117	FJH	6822.3	:152	FJH	6850.37	147	FJH	6824.4	101	KPG
6847.4	85	CMG	6847.4	116	CMG	6828.4	150	FJH	6852.34	148	FJH	6825.3	101	FJH
-----			6852.4	118	FJH	6846.3	:151	FJH	6858.32	112	KPG	6846.4	102	KPG
052607	BK	Ori	6858.3	118	KPG	6875.5	152	FJH	6858.36	113	FJH	6847.4	103	CMG
Type: Mira			6859.3	118	FJH	-----			6858.37	114	BMU	6850.5	99	FJH
6824.4	110	KPG	6866.3	120	FJH	055439	AZ	Aur	6859.31	112	FJH	6858.4	105	KPG
6846.3	113	KPG	6866.3	121	KPG	Type: Mira			6860.32	117	KPG	6860.5	100	FJH
6860.3	121	KPG	6875.3	122	FJH	6799.5	127	FJH	6860.37	116	FJH	6866.3	108	KPG
-----			6884.3	126	KPG	6824.4	135	FJH	6862.31	128	FJH	6873.4	105	FJH
0532-01	X	Ori	-----			6829.4	135	FJH	6875.35	148	FJH	6885.4	115	KPG
Type: Mira			054319	SU	Tau	6846.4	137	FJH	6884.34	150	FJH	-----		
6850.4	116	CMG	Type: RCB			6847.4	133	CMG	6885.38	148	FJH	063444A	AA	Aur
-----			6797.34	157	BMU	6852.4	134	FJH	-----			Type: Mira		
053326	RR	Tau	6824.4	:162	FJH	6859.3	132	FJH	060746A	ST	Aur	6824.4	139	KPG
Type: INAS			6826.4	:162	FJH	6875.3	131	FJH	Type: Mira			6825.4	140	FJH

6829.4	135	FJH	6850.5	125	FJH	-----	-----	6797.30	139	BMU				
6846.4	131	FJH	6860.5	131	FJH	071026	WZ Gem	073234	ST Gem	6799.52	141	FJH		
6847.4	130	CMG	6875.4	132	FJH	Type: Mira		Type: Mira		6822.37	94	FJH		
6850.4	125	KPG	6885.4	136	FJH	6824.4	149	FJH	6824.4	105	KPG	6824.35	94	FJH
6852.4	129	FJH	-----	-----	-----	6829.4	149	FJH	6826.4	104	FJH	6824.39	96	KPG
6858.4	115	KPG	070109	V Cmi		6846.4	:150	FJH	6846.4	108	KPG	6825.36	95	KPG
6862.3	121	FJH	Type: Mira			6847.4	<145	CMG	6847.3	118	FJH	6825.42	96	FJH
6866.3	107	KPG	6806.5	101	FJH	6885.4	:150	FJH	6847.4	116	CMG	6826.27	96	BMU
6884.3	100	KPG	6822.4	107	FJH	-----	-----	-----	6858.4	118	KPG	6826.32	95	KPG
-----	-----	-----	6824.4	102	LJO	071713	V Gem		6859.3	121	FJH	6826.41	97	FJH
063558	S	Lyn	6824.4	107	KPG	Type: Mira			6873.4	131	FJH	6826.43	97	BVE
Type: Mira			6833.5	111	FJH	6798.4	90	LJO	6882.4	136	FJH	6827.27	94	BMU
6807.5	125	FJH	6846.3	114	KPG	6806.5	85	FJH	-----	-----	-----	6827.34	94	KPG
6824.4	131	KPG	6847.3	118	FJH	6822.4	82	LJO	073508	U Cmi		6827.50	98	FJH
6825.3	135	FJH	6847.3	122	CMG	6824.4	84	KPG	Type: Mira			6828.35	95	FJH
6829.4	133	FJH	6850.3	121	LJO	6826.4	84	FJH	6806.5	96	FJH	6828.40	91	BVE
6846.4	136	KPG	6858.3	118	KPG	6846.3	96	LJO	6824.4	100	KPG	6829.39	94	FJH
6846.5	136	FJH	6858.3	123	LJO	6846.4	94	KPG	6825.5	95	LJO	6833.54	110	FJH
6847.4	137	CMG	6860.4	122	FJH	6847.4	95	CMG	6828.5	97	FJH	6844.36	137	FJH
6860.5	143	FJH	6870.3	126	LJO	6852.4	100	FJH	6846.3	101	KPG	6846.32	139	FJH
6875.4	145	FJH	6875.3	129	KPG	6858.4	100	LJO	6847.3	96	FJH	6846.35	141	KPG
6885.4	146	FJH	6875.3	132	FJH	6858.4	101	KPG	6847.4	97	CMG	6847.33	139	FJH
-----	-----	-----	6884.4	133	FJH	6862.3	103	FJH	6850.3	92	LJO	6847.37	143	CMG
064030	X	Gem	6885.3	133	KPG	6870.3	114	LJO	6858.3	97	KPG	6850.36	136	FJH
Type: Mira			-----	-----	-----	6875.4	114	FJH	6866.3	94	FJH	6850.40	141	KPG
6798.4	124	LJO	070122A	R Gem		6885.3	120	KPG	6870.3	90	LJO	6852.34	139	FJH
6806.5	127	FJH	Type: Mira			-----	-----	-----	6875.3	93	KPG	6860.35	139	FJH
6822.3	131	LJO	6798.4	104	LJO	072141	VX Aur		6884.3	94	KPG	6873.44	141	FJH
6824.4	132	FJH	6799.5	109	FJH	Type: Mira			-----	-----	-----	6882.38	141	FJH
6824.4	132	KPG	6806.5	110	FJH	6824.4	110	KPG	073723	S Gem		6884.33	141	FJH
6829.4	134	FJH	6822.4	116	LJO	6846.3	107	KPG	Type: Mira			6885.36	141	FJH
6844.4	135	FJH	6824.4	115	KPG	6847.4	108	CMG	6798.4	90	LJO	-----	-----	-----
6846.4	136	KPG	6824.4	117	FJH	6858.3	100	KPG	6806.5	89	FJH	080362	SU	UMa
6847.4	133	CMG	6829.4	118	FJH	6884.3	94	KPG	6822.4	98	LJO	Type: UGSU		
6852.3	132	LJO	6844.4	123	FJH	-----	-----	-----	6824.4	97	KPG	6822.58	122	FJH
6852.3	137	FJH	6846.4	121	KPG	072708	S Cmi		6825.4	97	FJH	6824.42	138	FJH
6858.3	132	LJO	6847.4	123	CMG	Type: Mira			6833.5	98	FJH	6825.39	142	FJH
6858.4	138	KPG	6850.3	124	LJO	6807.4	92	FJH	6846.4	103	KPG	6826.44	142	FJH
6859.3	136	FJH	6852.3	124	FJH	6824.4	88	KPG	6847.3	103	FJH	6827.53	142	FJH
6875.3	133	GEJ	6858.4	124	KPG	6825.5	92	LJO	6847.4	106	CMG	6828.36	144	FJH
6875.3	135	FJH	6858.4	126	LJO	6828.5	91	FJH	6850.3	108	LJO	6829.43	141	FJH
6882.4	132	FJH	6859.3	124	FJH	6846.3	87	KPG	6858.4	116	KPG	6844.36	139	FJH
6885.3	131	KPG	6873.4	129	FJH	6846.4	89	LJO	6859.3	115	FJH	6846.47	144	FJH
-----	-----	-----	6882.4	133	FJH	6847.3	91	CMG	6870.3	116	LJO	6847.34	144	FJH
064128	IR	Gem	-----	-----	-----	6850.3	87	FJH	6873.4	119	FJH	6850.36	144	FJH
Type: UGSU			070205	RS Mon		6858.3	83	KPG	6882.4	120	FJH	6852.35	142	FJH
6824.42<147	FJH		Type: Mira			6870.3	77	LJO	6885.3	122	KPG	6859.48	142	FJH
6850.37	143	FJH	6824.4	101	KPG	6875.3	76	KPG	-----	-----	-----	6860.46	143	FJH
6852.33:150	FJH		6850.4	100	KPG	6884.3	76	KPG	074323	T Gem		6873.45	138	FJH
6875.31	126	FJH	6850.4	102	CMG	-----	-----	-----	Type: Mira			6875.35	139	FJH
-----	-----	-----	6860.3	102	KPG	072811	T Cmi		6799.5	128	LJO	6884.35	144	FJH
065111	Y	Mon	-----	-----	-----	Type: Mira			6799.5	133	FJH	6885.36	142	FJH
Type: Mira			070310	R Cmi		6806.5	101	FJH	6824.4	142	FJH	-----	-----	-----
6824.4	97	KPG	Type: Mira			6824.4	111	KPG	6828.4	145	FJH	080428	YZ	Cnc
6846.4	94	KPG	6824.4	93	LJO	6824.4	112	FJH	6844.4	147	FJH	Type: UGSU		
6847.3	99	CMG	6824.4	94	KPG	6829.4	115	FJH	6847.4	148	CMG	6824.43	134	FJH
6860.3	97	KPG	6846.3	103	KPG	6846.3	118	KPG	6850.4	146	KPG	6825.39	122	FJH
-----	-----	-----	6847.3	103	CMG	6847.3	121	FJH	6852.3	145	FJH	6826.42	124	FJH
065355	R	Lyn	6850.3	108	LJO	6847.4	119	CMG	6860.4	138	FJH	6827.53	130	FJH
Type: Mira			6858.3	108	KPG	6858.3	121	KPG	6873.4	130	FJH	6828.35	138	FJH
6824.4	119	KPG	6858.4	109	LJO	6860.4	125	FJH	6882.4	127	FJH	6829.42	139	FJH
6825.3	118	FJH	6870.3	108	LJO	6875.3	130	FJH	-----	-----	-----	6844.36	131	FJH
6846.4	124	KPG	6875.3	109	KPG	6875.3	133	KPG	074922	U Gem		6846.40	122	BMU
6847.4	127	CMG	6885.3	109	KPG	6884.4	135	FJH	Type: UGSS+E			6846.41	121	FJH



6847.32 125 FJH	6825.39 129 FJH	-----	6882.39 117 FJH	6824.5 97 NWL
6847.49 132 CMG	6826.27 130 BMU	083013 UY Cnc	6885.37 119 FJH	6825.5 99 KPG
6847.50 131 BMU	6826.43 131 KPG	Type: Mira	6885.40 116 KPG	6825.6 96 LJO
6850.37 144 FJH	6826.43 130 FJH	6824.5 116 KPG	-----	6826.4 95 BVE
6852.34 147 FJH	6827.27 131 BMU	6846.4 128 KPG	090425 W Cnc	6826.4 99 FJH
6860.35 119 FJH	6827.39 133 KPG	6858.4 133 KPG	Type: Mira	6846.4 101 LJO
6860.37 119 BMU	6827.49 128 FJH	-----	6799.5 129 FJH	6846.5 102 KPG
6862.31 127 FJH	6828.34 131 FJH	083019 U Cnc	6824.4 140 FJH	6847.3 100 CMG
6875.31 121 FJH	6829.43 130 FJH	Type: Mira	6825.5 141 KPG	6850.3 106 FJH
6882.38 145 FJH	6833.56 128 FJH	6799.5 117 FJH	6828.4 140 FJH	6851.3 103 BMU
6884.35 147 FJH	6837.35 108 FJH	6806.5 125 FJH	6846.4 143 FJH	6851.4 98 BVE
6885.38 147 FJH	6844.36 118 FJH	6824.4 135 FJH	6847.3 144 CMG	6858.4 102 KPG
-----	6846.40 119 KPG	6827.4 135 KPG	6850.4 144 KPG	6859.5 106 FJH
080523 RR Cnc	6846.41 120 FJH	6829.4 138 FJH	6852.4 144 FJH	6863.4 :102 NWL
Type: Mira	6847.31 118 FJH	6844.4 144 FJH	6860.5 147 FJH	6865.4 103 BVE
6824.5 128 KPG	6850.31 116 BMU	6847.3 146 CMG	6875.4 146 FJH	6870.4 103 LJO
6825.4 125 FJH	6850.36 116 FJH	6850.4 146 KPG	-----	6873.3 103 BMU
6844.4 132 FJH	6850.39 116 CMG	6860.5 :149 FJH	093178 Y Dra	6873.4 106 FJH
6846.4 135 KPG	6850.41 112 KPG	6885.4 151 FJH	Type: Mira	6884.3 102 BMU
6847.3 139 CMG	6852.31 117 BMU	-----	6797.3 93 BMU	6885.4 102 KPG
6860.3 140 KPG	6852.35 114 KPG	083350 X UMa	6797.3 93 CMG	6885.4 :100 NWL
6860.4 138 FJH	6852.43 116 FJH	Type: Mira	6807.4 95 FJH	-----
6875.3 140 FJH	6858.32 115 KPG	6799.5 147 FJH	6827.5 98 FJH	094512 X Leo
6884.4 142 FJH	6859.31 116 FJH	6825.4 :154 FJH	6837.3 106 FJH	Type: UGSS
-----	6860.34 116 KPG	6847.3 154 FJH	6847.3 105 FJH	6825.42 127 FJH
080837 RT Lyn	6862.32 117 FJH	6852.3 139 KPG	6847.4 120 CMG	6825.45 120 KPG
Type: Mira	6866.36 118 FJH	6875.5 151 FJH	6862.3 120 FJH	6826.43 127 FJH
6807.5 108 FJH	6873.3 117 BMU	-----	6875.4 126 FJH	6826.43 121 KPG
6826.4 106 FJH	6873.45 116 FJH	084803 S Hya	6885.4 133 FJH	6827.39 121 KPG
6847.3 102 FJH	6880.47 114 FJH	Type: Mira	-----	6827.51 126 FJH
6850.4 103 CMG	6885.40 117 KPG	6847.3 86 CMG	093720 RS Leo	6828.46 126 FJH
6862.3 100 FJH	-----	-----	Type: Mira	6829.44 126 FJH
6880.5 97 FJH	081617 V Cnc	0850-08 T Hya	6807.5 :137 FJH	6846.44:156 FJH
-----	Type: Mira	Type: Mira	6825.4 138 FJH	6847.55:156 FJH
081040 W Lyn	6806.5 98 FJH	6850.4 94 CMG	6828.5 137 FJH	6850.37 125 FJH
Type: Mira	6824.5 109 KPG	-----	6846.4 120 FJH	6850.43 122 KPG
6807.5 129 FJH	6825.4 110 FJH	085518 SY Cnc	6846.5 118 KPG	6851.32 126 FJH
6825.4 135 FJH	6825.5 113 LJO	Type: UGZ	6851.4 116 CMG	6852.35 127 KPG
6846.5 140 FJH	6826.5 111 BVE	6799.51 136 FJH	6858.4 108 KPG	6852.41 132 FJH
6860.5 144 FJH	6829.4 112 FJH	6806.5 114 FJH	6859.5 110 FJH	6862.35 124 FJH
6884.4 :148 FJH	6844.4 120 FJH	6824.43 125 FJH	6873.4 102 FJH	6863.45 125 FJH
6885.4 148 FJH	6846.4 119 KPG	6825.42 123 FJH	6882.4 101 FJH	6864.43 128 FJH
-----	6847.3 124 CMG	6825.44 123 KPG	6885.4 99 KPG	6873.40 128 FJH
081112 R Cnc	6850.3 124 LJO	6826.42 124 FJH	-----	6875.34 125 KPG
Type: Mira	6858.4 124 KPG	6826.43 122 KPG	093934 R LMi	6875.34 128 FJH
6822.5 85 NWL	6859.5 130 FJH	6827.38 119 KPG	Type: Mira	6885.39 153 FJH
6825.5 85 LJO	6873.4 134 FJH	6827.53 118 FJH	6799.5 138 FJH	-----
6826.4 87 BVE	6882.4 138 FJH	6828.35 117 FJH	6825.4 140 FJH	094735 S LMi
6827.4 87 KPG	6885.3 139 KPG	6833.55 119 FJH	6825.5 136 KPG	Type: Mira
6846.4 86 KPG	-----	6846.40 138 KPG	6827.5 132 LJO	6799.5 130 FJH
6846.4 97 LJO	081633 T Lyn	6846.41 135 FJH	6829.4 138 FJH	6824.4 139 FJH
6847.3 89 CMG	Type: Mira	6850.36 132 FJH	6844.4 136 FJH	6825.5 138 KPG
6858.4 89 KPG	6807.5 112 FJH	6850.36 132 KPG	6846.4 135 KPG	6828.4 140 FJH
6870.3 102 LJO	6826.3 103 KPG	6852.34 125 KPG	6847.3 133 CMG	6828.4 140 FJH
6885.3 101 KPG	6826.4 104 FJH	6852.36 126 FJH	6852.4 132 FJH	6844.4 138 FJH
-----	6847.4 99 CMG	6858.32 114 KPG	6858.4 127 KPG	6846.4 136 KPG
081473 Z Cam	6850.4 100 KPG	6859.47 110 FJH	6859.5 127 FJH	6847.3 134 CMG
Type: UGZ	6858.4 95 KPG	6860.34 112 KPG	6873.4 127 FJH	6852.4 133 FJH
6797.30 104 BMU	6885.4 94 KPG	6860.47 113 FJH	6885.4 124 KPG	6858.4 127 KPG
6799.28 109 BMU	-----	6862.32 114 FJH	-----	6859.5 129 FJH
6799.36 108 FJH	081935 X Lyn	6864.43 117 FJH	094211 R Leo	6873.4 117 FJH
6806.50 128 FJH	Type: Mira	6873.40 133 FJH	Type: Mira	6885.4 103 KPG
6824.42 129 FJH	6847.5 146 FJH	6875.31 129 FJH	6807.4 94 FJH	-----
6825.25 132 BMU	6885.4 144 FJH	6880.46 123 FJH	6807.6 89 NWL	095421 V Leo

6807.4	96	FJH	-----	6850.3	105	FJH	Type: Mira	6850.4	100	CMG
6807.6	96	NWL	115158 Z UMa	6851.5	107	BVE	6799.5 122 FJH	6852.4	105	FJH
6824.4	101	FJH	Type: SRb	6852.3	101	BMU	6807.5 120 FJH	6864.5	105	FJH
6824.5	103	NWL	6824.4 81 SEN	6852.4	104	LJO	6824.4 105 SEN	6880.5	105	FJH
6825.5	101	KPG	6827.3 86 BMU	6858.5	97	KPG	6825.5 104 KPG	-----		
6825.5	103	LJO	6833.5 87 SEN	6862.3	92	BMU	6826.4 102 FJH	1327-06	S	Vir
6833.6	107	FJH	6847.4 79 CMG	6863.5	91	FJH	6826.5 105 BVE	Type: Mira		
6846.4	108	LJO	6851.3 77 BMU	6864.4	92	SEN	6827.3 99 BMU	6827.6	121	KPG
6846.4	112	FJH	6867.4 69 SEN	6865.4	90	BVE	6833.6 95 SEN	6847.6	117	KPG
6846.4	113	KPG	6873.3 70 BMU	6866.4	90	KPG	6846.5 91 KPG	6860.6	113	KPG
6847.3	118	CMG	-----	6867.5	90	NWL	6847.4 86 CMG	6886.5	112	KPG
6858.4	122	KPG	115919 R Com	6867.5	92	KER	6850.3 91 FJH	-----		
6859.5	122	FJH	Type: Mira	6873.3	85	BMU	6851.3 87 BMU	133273	T	UMi
6873.4	123	LJO	6825.5 96 KPG	6873.4	88	LJO	6851.5 87 BVE	Type: Mira		
6873.4	129	FJH	6827.5 102 FJH	6875.5	82	SEN	6852.4 85 LJO	6825.4	139	FJH
6882.4	132	FJH	6846.4 112 FJH	6875.5	85	NWL	6858.5 86 KPG	6846.5	127	FJH
6885.4	130	KPG	6846.5 107 KPG	6885.3	84	BVE	6862.3 84 BMU	6847.3	125	CMG
-----			6847.5 107 CMG	6885.4	80	KPG	6863.5 87 FJH	6862.3	119	FJH
095968	CH	UMa	6859.5 115 FJH	-----			6864.5 82 SEN	6880.5	119	FJH
Type: UGSS			6860.6 112 KPG	123307	R	Vir	6865.4 90 BVE	-----		
6846.47	145	FJH	6864.4 118 FJH	Type: Mira			6866.4 83 KPG	134434	RT	CVn
6847.36	145	FJH	6875.5 118 FJH	6827.5	108	FJH	6873.3 84 BMU	Type: Mira		
6882.38	128	FJH	-----	6827.6	109	KPG	6873.4 82 LJO	6827.6	108	KPG
6883.51	127	FJH	120012 SU Vir	6846.5	95	KPG	6875.5 82 NWL	6846.5	109	KPG
6884.35	129	FJH	Type: Mira	6847.5	95	FJH	6875.5 82 SEN	6850.5	107	FJH
6885.36	131	FJH	6827.5 121 FJH	6860.6	83	KPG	6885.4 83 KPG	6858.5	109	KPG
-----			6827.6 118 KPG	6864.4	83	FJH	-----	6864.4	109	FJH
102900	S	Sex	6846.5 127 KPG	6886.5	78	KPG	124204	RU	Vir	6880.5 113 FJH
Type: Mira			6847.5 132 FJH	-----			Type: Mira	6886.5	117	KPG
6846.5	130	KPG	6859.5 138 FJH	123366	RV	Dra	6827.5 120 FJH	-----		
6847.4	131	CMG	6860.6 137 KPG	Type: Mira			6827.6 118 KPG	134440	R	CVn
-----			6875.5 141 FJH	6825.4	131	FJH	6846.5 110 KPG	Type: Mira		
103769	R	UMa	-----	6827.5	127	SEN	6847.5 112 FJH	6825.5	81	KPG
Type: Mira			1209-05 T Vir	6846.5	113	FJH	6860.6 107 KPG	6826.5	79	BVE
6825.5	80	KPG	Type: Mira	6850.4	108	CMG	6864.4 108 FJH	6846.5	76	KPG
6826.4	81	BVE	6798.7 120 CMG	6863.5	105	FJH	6886.5 108 KPG	6847.4	79	CMG
6846.5	89	KPG	-----	6867.5	106	SEN	-----	6851.5	74	BVE
6847.4	86	CMG	122532 T CVn	6875.5	100	SEN	124238	U	CVn	6858.5 73 KPG
6850.3	90	FJH	Type: Mira	6875.5	101	NWL	Type: Mira	6864.5	73	FJH
6851.3	89	BMU	6825.5 101 KPG	6880.5	105	FJH	6846.5 140 KPG	6864.5	77	NWL
6851.4	90	BVE	6846.5 99 KPG	-----			6852.4 140 FJH	6865.4	74	BVE
6852.4	84	LJO	6847.4 103 CMG	123459	RS	UMa	6858.5 137 KPG	6873.3	79	BMU
6858.5	91	KPG	6858.5 106 KPG	Type: Mira			6860.5 139 FJH	6873.5	79	LJO
6862.3	95	FJH	6864.7 :105 NWL	6807.5	95	FJH	6880.5 129 FJH	6875.6	80	NWL
6865.4	92	BVE	6873.4 110 LJO	6824.4	108	SEN	6885.4 120 KPG	6885.4	83	KPG
6866.4	92	KPG	6875.6 109 NWL	6825.5	104	KPG	-----	-----		
6885.4	107	KPG	6885.4 110 KPG	6826.4	106	FJH	124606	U	Vir	1353-04 SY Vir
-----			-----	6826.5	102	BVE	Type: Mira	Type: Mira		
104814	W	Leo	1228-03 Y Vir	6827.3	104	BMU	6827.5 84 FJH	6827.6	124	KPG
Type: Mira			Type: Mira	6833.5	109	FJH	6827.6 82 KPG	-----		
6827.5	123	FJH	6827.6 134 KPG	6833.5	111	SEN	6846.5 86 KPG	140113	Z	Boo
6827.6	123	KPG	6846.5 121 KPG	6846.4	119	FJH	6847.5 88 FJH	Type: Mira		
6846.4	130	FJH	6886.5 101 KPG	6846.5	119	KPG	6860.6 86 KPG	6827.5	141	FJH
6846.5	129	KPG	-----	6847.4	121	CMG	6864.4 90 FJH	6827.7	139	KPG
6847.3	129	CMG	123160 T UMa	6852.3	123	BMU	6886.5 96 KPG	6847.5	145	FJH
6859.5	132	FJH	Type: Mira	6852.4	124	LJO	-----	6860.5	147	FJH
6875.5	136	FJH	6799.5 130 FJH	6858.5	127	KPG	1322-02	V	Vir	6875.5 146 FJH
6885.4	140	FJH	6824.4 124 FJH	6859.5	131	FJH	Type: Mira	-----		
-----			6825.5 124 KPG	6862.3	128	BMU	6860.6 99 KPG	141567	U	UMi
110506	S	Leo	6827.3 125 BMU	6873.4	134	FJH	6886.5 86 KPG	Type: Mira		
Type: Mira			6827.5 124 SEN	6884.4	138	FJH	-----	6828.5	108	FJH
6827.6	106	KPG	6833.5 118 FJH	6885.4	139	KPG	132262	RR	UMa	6847.3 115 CMG
6846.5	116	KPG	6846.5 106 KPG	-----			Type: Mira	6847.7	115	KPG
6847.4	116	CMG	6847.4 113 CMG	123961	S	UMa	6825.4 115 FJH	6852.4	117	FJH

6859.5	118	FJH	6846.5	118	FJH	6886.5	99	KPG	Type: Mira	6827.7	133	KPG		
6860.7	118	KPG	6846.5	119	KPG	-----	-----	-----	6826.7	148	FJH	6847.6	141	FJH
6880.5	119	FJH	6850.4	126	CMG	154428A	R	CrB	6827.7	148	KPG	6850.7	139	KPG
6886.5	124	KPG	6860.5	124	FJH	Type: RCB	-----	-----	6847.6	145	FJH	6860.5	142	FJH
-----	-----	-----	6860.6	123	KPG	6798.7	60	CMG	6850.7	:146	KPG	6860.7	139	KPG
141954	S	Boo	6875.5	125	FJH	6798.8	61	BVE	6875.5	143	FJH	6875.5	141	FJH
Type: Mira	-----	-----	6883.5	126	FJH	6826.5	61	BVE	-----	-----	-----	-----	-----	-----
6798.8	102	BVE	6886.5	123	KPG	6827.7	60	KPG	160210	U	Ser	163266	R	Dra
6824.5	93	NWL	-----	-----	-----	6846.5	60	KPG	Type: Mira	-----	-----	Type: Mira	-----	-----
6826.5	93	BVE	144339	RR	Boo	6850.5	60	BMU	6826.7	85	FJH	6824.5	105	SEN
6827.7	87	KPG	Type: Mira	-----	-----	6860.6	60	KPG	6827.7	84	KPG	6826.5	111	BVE
6828.5	87	FJH	6827.5	131	FJH	6867.5	60	BVE	6847.6	89	FJH	6827.7	108	KPG
6846.5	82	KPG	6827.7	127	KPG	6873.4	60	BMU	6847.7	88	KPG	6828.5	116	FJH
6847.4	83	CMG	6846.4	138	FJH	6886.5	60	KPG	6860.7	91	KPG	6833.6	115	SEN
6851.5	82	BVE	6846.5	138	KPG	-----	-----	-----	6875.5	101	FJH	6847.4	120	CMG
6852.4	86	FJH	6850.4	136	CMG	154536	X	CrB	6886.5	104	KPG	6847.7	121	KPG
6860.6	82	KPG	6860.5	138	FJH	Type: Mira	-----	-----	-----	-----	-----	6852.4	125	FJH
6865.4	83	BVE	6860.6	132	KPG	6827.5	91	FJH	160625	RU	Her	6860.5	128	FJH
6866.5	86	FJH	6875.5	132	FJH	6827.7	91	KPG	Type: Mira	-----	-----	6860.7	123	KPG
6873.4	85	BMU	6883.5	123	FJH	6847.6	98	KPG	6827.5	70	FJH	6867.5	:126	SEN
6886.5	92	KPG	6886.5	118	KPG	6847.6	99	FJH	6827.7	76	KPG	6880.5	131	FJH
-----	-----	-----	-----	-----	-----	6860.6	104	KPG	6847.6	78	KPG	6886.5	127	KPG
142205	RS	Vir	1506-05	Y	Lib	6864.5	110	FJH	6860.7	79	KPG	-----	-----	-----
Type: Mira	-----	-----	Type: Mira	-----	-----	6875.5	116	FJH	6866.5	82	FJH	163414	AS	Her
6827.6	87	KPG	6847.6	111	KPG	6883.5	123	FJH	6875.6	88	FJH	Type: Mira	-----	-----
6847.5	84	FJH	6860.6	122	KPG	6886.5	121	KPG	6883.5	91	FJH	6826.7	121	FJH
6847.6	84	KPG	-----	-----	-----	-----	-----	-----	6886.5	93	KPG	6847.6	108	FJH
6860.6	87	KPG	151714	S	Ser	154615	R	Ser	-----	-----	-----	6850.7	104	KPG
6864.4	86	FJH	Type: Mira	-----	-----	Type: Mira	-----	-----	160710	DN	Her	6860.7	98	KPG
6883.5	91	FJH	6827.7	122	KPG	6826.7	127	FJH	Type: Mira	-----	-----	6875.6	101	FJH
6886.5	91	KPG	6850.7	118	KPG	6827.7	123	KPG	6827.7	108	KPG	6886.5	86	KPG
-----	-----	-----	6860.7	111	KPG	6847.6	115	FJH	6847.7	109	KPG	-----	-----	-----
142539	V	Boo	6886.5	88	KPG	6850.7	114	KPG	6860.7	109	KPG	164012	UV	Her
Type: SRa	-----	-----	-----	-----	-----	6860.7	107	KPG	6886.5	114	KPG	Type: Mira	-----	-----
6798.8	89	BVE	151731	S	CrB	6875.6	105	FJH	-----	-----	-----	6826.7	131	FJH
6824.5	86	NWL	Type: Mira	-----	-----	6886.5	98	KPG	161138	W	CrB	6847.6	134	FJH
6826.5	84	BVE	6798.8	74	BVE	-----	-----	-----	Type: Mira	-----	-----	-----	-----	-----
6827.7	83	KPG	6807.6	76	NWL	154639	V	CrB	6827.5	92	FJH	164715	S	Her
6846.5	84	KPG	6824.5	81	NWL	Type: Mira	-----	-----	6827.7	89	KPG	Type: Mira	-----	-----
6850.4	81	CMG	6826.5	81	BVE	6827.7	118	KPG	6847.6	101	KPG	6860.7	90	KPG
6851.5	82	BVE	6827.7	82	KPG	6847.6	116	FJH	6847.6	104	FJH	6875.6	89	FJH
6860.6	81	KPG	6847.6	88	KPG	6847.6	120	KPG	6860.5	112	FJH	-----	-----	-----
6864.6	81	NWL	6847.6	93	FJH	6860.5	113	FJH	6860.6	112	KPG	165631	RV	Her
6865.4	81	BVE	6858.6	91	NWL	6860.6	119	KPG	6864.5	114	FJH	Type: Mira	-----	-----
6886.5	81	KPG	6860.6	94	KPG	6867.5	105	KER	6875.5	119	FJH	6827.5	106	FJH
-----	-----	-----	6864.6	95	NWL	6867.5	107	NWL	6883.5	128	FJH	6827.7	105	KPG
142584	R	Cam	6866.5	94	FJH	6883.5	110	FJH	6886.5	125	KPG	6847.6	114	FJH
Type: Mira	-----	-----	6883.5	99	FJH	6886.5	113	KPG	-----	-----	-----	6847.7	119	KPG
6825.4	118	FJH	6886.5	99	KPG	-----	-----	-----	162119	U	Her	6860.7	125	KPG
6827.7	117	KPG	-----	-----	-----	155229	Z	CrB	Type: Mira	-----	-----	6875.5	135	FJH
6837.3	105	FJH	153378A	S	UMi	Type: Mira	-----	-----	6826.7	119	FJH	-----	-----	-----
6847.4	100	CMG	Type: Mira	-----	-----	6827.5	125	FJH	6827.7	118	KPG	165722	SY	Her
6847.7	97	KPG	6797.3	123	CMG	6827.7	127	KPG	6847.6	123	FJH	Type: Mira	-----	-----
6850.3	90	FJH	6806.5	119	FJH	6847.6	131	FJH	6850.7	126	KPG	6827.7	137	KPG
6860.7	92	KPG	6824.5	:111	SEN	6850.7	134	KPG	6860.7	124	KPG	6847.7	124	KPG
6862.3	91	FJH	6827.7	101	KPG	6860.5	137	FJH	6875.5	125	FJH	6860.7	108	KPG
6886.5	92	KPG	6828.5	105	FJH	6860.6	139	KPG	-----	-----	-----	6875.5	103	FJH
-----	-----	-----	6833.6	110	SEN	6875.5	143	FJH	162807A	SS	Her	6886.5	97	KPG
143227	R	Boo	6847.3	102	CMG	-----	-----	-----	Type: Mira	-----	-----	-----	-----	-----
Type: Mira	-----	-----	6847.7	99	KPG	155526	T	CrB	6850.7	102	KPG	-----	-----	-----
6798.8	91	BVE	6860.7	99	KPG	Type: Nd	-----	-----	-----	-----	-----	170217	VY	Her
6826.5	115	BVE	6863.5	99	FJH	6883.5	101	FJH	-----	-----	-----	Type: Mira	-----	-----
6827.5	113	FJH	6875.5	100	NWL	-----	-----	-----	163137	W	Her	6826.7	138	FJH
6827.7	113	KPG	6875.5	101	SEN	160118	R	Her	Type: Mira	-----	-----	6847.6	143	FJH
-----	-----	-----	-----	-----	-----	-----	-----	-----	6826.7	137	FJH	-----	-----	-----

170627A RT Her	6847.6 :154 FJH	184134 RY Lyr	Type: Mira	6797.3 116 CMG
Type: Mira	-----	Type: Mira	6797.3 125 CMG	-----
6826.7 147 FJH	181031 TV Her	6826.7 145 FJH	-----	203847 V Cyg
6847.6 134 FJH	Type: Mira	-----	194048 RT Cyg	Type: Mira
6850.7 127 KPG	6826.7 103 FJH	185032 RX Lyr	Type: Mira	6797.3 131 CMG
6860.7 118 KPG	6827.7 103 KPG	Type: Mira	6797.3 125 BMU	6824.3 122 FJH
6875.5 104 FJH	6847.7 108 KPG	6826.7 121 FJH	6797.3 128 CMG	-----
-----	6860.7 116 KPG	6827.7 116 KPG	6827.7 106 KPG	205030A UX Cyg
171401 Z Oph	6875.5 126 FJH	6847.7 116 KPG	6847.7 91 KPG	Type: Mira
Type: Mira	-----	6860.7 120 KPG	6860.7 88 KPG	6797.3 124 CMG
6827.7 86 BMU	181136 W Lyr	-----	6886.5 86 KPG	-----
-----	Type: Mira	185634 Z Lyr	-----	210129 TW Cyg
171723 RS Her	6827.7 96 KPG	Type: Mira	194348 TU Cyg	Type: Mira
Type: Mira	6847.7 90 KPG	6826.7 138 FJH	Type: Mira	6797.3 136 CMG
6826.7 126 FJH	6860.7 87 KPG	-----	6797.3 103 CMG	-----
6827.7 127 KPG	6886.5 82 KPG	185737 RT Lyr	6797.3 120 BMU	210382 X Cep
6847.6 129 FJH	-----	Type: Mira	6827.7 134 KPG	Type: Mira
6850.7 126 KPG	182039 TW Lyr	6826.7 :148 FJH	6850.7 146 KPG	6847.3 :156 FJH
6860.7 123 KPG	Type: Mira	-----	-----	-----
6875.5 111 FJH	6847.6 114 FJH	185947 WZ Lyr	194632 ChiCyg	210587 X UMi
6886.5 98 KPG	6875.5 121 FJH	Type: Mira	Type: Mira	Type: Mira
-----	-----	6827.5 106 FJH	6797.3 116 BMU	6825.4 132 FJH
172809A RU Oph	182172 RT Dra	6847.6 107 FJH	6797.3 116 CMG	6827.3 132 BMU
Type: Mira	Type: Mira	6875.5 110 FJH	6850.7 128 KPG	6844.4 128 FJH
6850.7 128 KPG	6847.5 121 FJH	-----	-----	6850.3 131 BMU
-----	6850.4 115 CMG	190529A V Lyr	195035 N86Cyg	6850.4 133 CMG
175458A T Dra	-----	Type: Mira	Type: N	6859.5 135 FJH
Type: Mira	182224 SV Her	6826.7 125 FJH	6797.28 122 BMU	6862.3 131 BMU
6850.4 120 CMG	Type: Mira	-----	-----	6875.5 138 FJH
-----	6826.7 102 FJH	190967 U Dra	195849 Z Cyg	-----
175519 RY Her	-----	Type: Mira	Type: Mira	210868 T Cep
Type: Mira	183149A SV Dra	6797.3 124 CMG	6797.3 103 CMG	Type: Mira
6826.7 115 FJH	Type: Mira	6826.5 115 BVE	6827.7 120 KPG	6797.3 89 CMG
6827.7 118 KPG	6850.7 117 KPG	6828.5 114 FJH	6850.7 127 KPG	6798.4 88 BVE
6850.7 134 KPG	6875.5 133 FJH	6847.4 104 CMG	6860.7 128 KPG	6799.3 91 BMU
6860.7 134 KPG	-----	6865.4 98 BVE	-----	6824.4 83 BVE
-----	183225 RZ Her	6866.5 99 FJH	201437B WX Cyg	6826.3 82 GEJ
175654 V Dra	Type: Mira	-----	Type: Mira	6827.3 81 KPG
Type: Mira	6826.7 106 FJH	192150 CH Cyg	6797.3 130 CMG	6846.4 78 KPG
6826.7 143 FJH	-----	Type: Z And	-----	6847.3 78 CMG
6847.6 147 FJH	183915 N87Her	6797.3 81 BMU	201559 CN Cyg	6851.3 77 BMU
6875.5 136 FJH	Type: N	6826.3 76 BVE	Type: Mira	6873.3 76 BMU
-----	6825.70 76 BMU	-----	6797.3 123 CMG	-----
180531 T Her	6825.76 74 FJH	192928 TY Cyg	-----	213678 S Cep
Type: Mira	6826.70 74 FJH	Type: Mira	201621 PU Vul	Type: Mira
6827.7 106 KPG	6826.72 76 BMU	6797.3 102 CMG	Type: NL	6798.4 92 BVE
6847.7 122 KPG	6827.68 79 BVE	-----	6850.7 88 BMU	6824.4 97 BVE
6860.7 129 KPG	6827.70 77 BMU	193428 BG Cyg	-----	6827.5 96 FJH
6875.5 134 FJH	6827.74 78 KPG	Type: Mira	201647 U Cyg	6847.3 99 CMG
-----	6828.71 79 BMU	6797.3 119 CMG	Type: Mira	6851.3 96 BMU
180565 W Dra	6829.71 78 BMU	-----	6797.3 82 CMG	-----
Type: Mira	6846.70 88 BMU	193449 R Cyg	6825.3 77 FJH	213753 RU Cyg
6797.3 140 BMU	6847.60: 85 FJH	Type: Mira	-----	Type: SR
6797.3 145 CMG	6849.70 88 BMU	6797.3 87 CMG	202954 ST Cyg	6826.5 86 SEN
6826.7 142 FJH	6850.70 88 BMU	6797.3 89 BMU	Type: Mira	6848.6 87 SEN
6847.5 138 FJH	6850.71 88 KPG	6825.3 97 FJH	6797.3 103 CMG	-----
6860.5 136 FJH	6851.66 92 BMU	6826.3 95 BVE	-----	213843 SS Cyg
6875.5 127 FJH	6860.68 97 BMU	6827.7 93 KPG	202962 BF Cep	Type: UGSS
-----	6875.55 105 FJH	6847.7 101 KPG	Type: Mira	6797.29 119 BMU
180666 X Dra	-----	6860.7 106 KPG	6807.3 123 FJH	6797.32 118 CMG
Type: Mira	183922 AE Her	6866.5 108 FJH	6828.3 129 FJH	6807.30 121 FJH
6797.3 131 BMU	Type: Mira	6886.5 115 KPG	-----	6810.22 122 FJH
6797.3 136 CMG	6826.7 119 FJH	-----	203537 FF Cyg	6822.26 83 FJH
6826.7 148 FJH	-----	193954 V369Cy	Type: Mira	6824.26 83 FJH

6825.24	84	BMU	6822.26	119	FJH	-----	6799.3	99	FJH		
6825.25	85	CMG	6822.3	:112	NWL	232848	Z	And	6807.3	102	FJH
6826.24	84	BMU	6824.24	116	BMU	Type: Z	And		6808.3	104	NWL
6826.29	84	BVE	6824.29	119	FJH	6798.4	105	BVE	6822.3	113	FJH
6827.24	82	FJH	6825.24	117	BMU	6807.3	105	FJH	6825.3	112	KPG
6827.27	85	BMU	6825.29	115	KPG	6824.4	105	BVE	6826.3	108	BVE
6828.26	82	FJH	6826.24	117	BMU	6827.3	104	KPG	6828.3	115	FJH
6837.26	117	FJH	6827.24	119	FJH	6828.3	105	FJH	6837.3	118	FJH
6850.30	122	BMU	6827.25	115	KPG	6850.3	105	KPG	6846.3	121	FJH
-----			6827.27	117	BMU	-----			6847.3	115	KPG
214443		WY	6828.26	119	FJH	233956	Z	Cas	-----		
Type: Mira			6837.25	118	FJH	Type: Mira			235855A	Y	Cas
6797.3	140	CMG	6844.25	118	FJH	6799.3	147	FJH	Type: Mira		
6824.3	:141	FJH	6844.35	114	BMU	6822.3	129	FJH	6799.3	148	FJH
-----			6846.27	119	FJH	6825.3	127	KPG	6822.3	141	FJH
220133B		RZ	6846.30	116	BMU	6829.4	122	FJH	6829.4	138	FJH
Type: Mira			6850.28	116	KPG	6847.3	103	FJH	6837.3	138	FJH
6825.3	135	FJH	6850.32	117	BMU	6847.4	100	CMG	6847.3	138	FJH
-----			6852.29	119	BMU	6850.3	101	KPG	6847.4	136	CMG
220714		RS	-----			6860.3	98	FJH	6860.3	137	FJH
Type: Mira			230759	V	Cas	-----			-----		
6810.2	109	FJH	Type: Mira			235053	RR	Cas	235939	SV	And
-----			6798.4	116	BVE	Type: Mira			Type: Mira		
222439		S	6799.3	122	FJH	6799.3	119	FJH	6824.3	:147	FJH
Type: Mira			6807.3	117	FJH	6807.3	118	FJH	6826.3	141	KPG
6822.3	133	FJH	6824.4	106	BVE	6822.3	118	FJH	6828.3	145	FJH
6828.3	134	FJH	6825.3	105	FJH	6826.3	114	KPG	6844.3	142	FJH
6837.3	134	FJH	6826.3	102	KPG	6829.4	118	FJH	6850.4	140	CMG
6844.3	132	FJH	6826.5	104	SEN	6837.3	117	FJH	-----		
-----			6847.3	99	CMG	6847.4	114	CMG			
222924		SS	6847.5	107	KER	6850.3	111	KPG			
Type: Mira			6848.5	99	SEN	6860.3	114	FJH			
6810.2	124	FJH	6850.3	100	FJH	-----					
6825.3	124	FJH	6858.4	93	SEN	235255	WY	Cas			
-----			-----			Type: Mira					
223841		R	231425	W	Peg	6807.4	108	FJH			
Type: Mira			Type: Mira			6822.3	118	FJH			
6822.3	143	FJH	6799.3	120	FJH	6825.3	113	KPG			
6827.3	140	KPG	6822.3	123	FJH	6829.4	117	FJH			
6828.3	145	FJH	6828.3	121	FJH	6837.3	121	FJH			
-----			6837.3	123	FJH	6844.3	125	FJH			
224517		SX	-----			6847.4	121	CMG			
Type: Mira			231508	S	Peg	6850.3	120	KPG			
6810.2	113	FJH	Type: Mira			6860.3	128	FJH			
-----			6799.3	128	FJH	-----					
225542		SZ	6824.3	111	FJH	235350	R	Cas			
Type: Mira			-----			Type: Mira					
6824.3	<149	FJH	231539	RY	And	6798.4	98	BVE			
-----			Type: Mira			6799.3	105	FJH			
225914		RW	6827.3	124	KPG	6807.3	106	FJH			
Type: Mira			-----			6822.3	111	FJH			
6799.3	124	FJH	231839	BU	And	6824.4	104	BVE			
6824.3	143	FJH	Type: Mira			6825.3	107	KPG			
-----			6807.3	112	FJH	6829.4	113	FJH			
230110		R	6824.3	121	FJH	6837.3	115	FJH			
Type: Mira			6837.3	123	FJH	6847.3	116	CMG			
6799.3	126	FJH	6846.3	126	FJH	6847.5	117	KER			
6824.3	116	FJH	-----			6850.3	110	KPG			
6827.3	114	BMU	232642	BG	And	6852.29	119	BMU			
-----			Type: Mira			6860.3	123	FJH			
230746		N86	6807.3	100	FJH	-----					
Type: Na			6824.3	104	FJH	235525	Z	Peg			
6799.36	97	FJH	6837.3	111	FJH	Type: Mira					
6810.23	119	FJH	6846.3	118	FJH	6798.4	98	BVE			

## AGENDA ALGEMENE LEDENVERGADERING WERKGROEP VERANDERLIJKE STERREN

Zaterdag 25 april in het Wapen van Drenthe, aanvang: 12.00 uur.

1. Opening
2. Vaststelling Agenda
3. Ingekomen stukken
4. Uitgaande stukken
5. Notulen vorige vergadering
6. Jaarverslag
7. Financieel jaarverslag
8. Verslag kascommissie
9. Begroting 1987
10. Verkiezing kascommissie
11. Veranderlijke sterrendag
12. W.v.t.t.k
13. Sluiting

## JAARVERSLAG WERKGROEP VERANDERLIJKE STERREN

In het begin van het jaar organiseerde de werkgroep de eerste veranderlijke sterrendag in Hogeveen. Naast sprekers uit eigen gelederen berichtten Dr.T.A.Th. Spoelstra over radiometingen aan novae en Dr. R. Taylor over de ster CH Cyg.

Het jaar 1987 was goed voor 8771 waarnemingen en op de volgende wijze verdeeld over de waarnemers: Ballegoy 553, Boinck 373, Bouma 1069, Bus 5, Codello 1362, Feijth 3074, Geenen 98, Johannink 13, Kerkvliet 7, Kuipers 1206, Luurs 185, Meijer 1, Munsterman 14, Nobel 315, Serne 305, Scholten 5, Stad 4 en v.d Wal 184.

De waarnemingsleider Feijth verrichtte zijn 50.000 waarneming, de werkgroep heeft daartoe de Feijth wisselbokaal uitgereikt.

Zowel nationaal als internationaal heeft Feijth en de werkgroep veel aandacht gekregen.

De waarnemingen zijn in de Variabilia, vier keer verschenen, gepubliceerd. Daarnaast heeft de Sterrenwacht van Straatsburg Nederlandse waarnemingen gepubliceerd. De geautomatiseerde gegevensverwerking gaat steeds verder, momenteel zijn de waarnemingen 1981-1986 op diskette leverbaar.

In oktober verscheen dankzij subsidie van Stichting De Koepel een nieuwe waarnemingshandleiding, daarnaast is een kaartenset voor beginnende waarnemers geproduceerd.