

## V A R I A B I L I A

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ruimte

vignet

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**WAARNEMINGSRESULTATEN JANUARI-MAART**

Ondanks het vele koude weer in de laatste maanden is een behoorlijk waarnemingen verricht, te weten 3171 door slechts 7 waarnemers. Onderstaande tabel geeft aan hoe de aantallen per maand over de diverse waarnemers verdeeld zijn. Ter nadere informatie zijn achter / de "inner sanctum" schattingen vermeld. Deze hebben betrekking op de positieve schattingen zwakker dan 13.7 alsmede de negatieve schattingen zwakker dan 14.0. Alleen de waarnemingen die vóór 10 april 1996 zijn ontvangen zijn meegemomen.

		JAN	FEB	MRT	totaal	instrumenten
E. van Ballegoy	BVE			2	2	N114
R.J. Bouma	BMU	57/1	21/1	58	136	JB254, N156
G. Comello	CMG	745/61	297/14	603/59	1645	SC280, SC200
E. van Dijk	VDE	4			4	JB254, B50
H. Feijth	FJH	425/87	60	258/54	743	N305, JB254
R.J. Johanns	JRJ	244/23	119/16	278/14	641	N250
		1475	497	1199	3171	

**OBSERVARIA**

Zoals gebruikelijk is het meeste nieuws van het (dwerg)novafrent. Nova Cassiopeiae 1995 is nog steeds in maximum; op het moment dat ik dit overzicht samenstel ( 19 april 1996 ) is de helderheid 8.7. Het ziet er dus naar uit dat deze nova nog geruime tijd zichtbaar zal zijn. Ook HR Delphini ( Nova 1967 ) doorliep voordat de definitieve afname inzette een stadium waarin de magnitude fluctueerde. De andere nova in Cassiopeia ( V705 Cas ) is nu definitief aan het afnemen na het secundaire maximum;

de helderheid is nu ongeveer 13.2.

De oude nova Persei 1901 ( GK Per ) is de enige nova die ook U Gem-achtige uitbarstingen kent. Juist in een periode van slecht weer ( half februari ) begon de helderheid gestaag toe te nemen van 13.0 tot 10.4 in het begin van april. Helaas neemt de zichtbaarheid snel af zodat het aantal waarnemingen in de dalende tak beperkt zal zijn.

Het heeft lang geduurd voordat U Geminorum een uitbarsting ( een breed maximum van 9.1 ) vertoonde. Gelukkig vond deze begin maart plaats na een periode met ongunstig weer. Momenteel is SW Ursae Maioris, die slechts één maal per jaar een uitbarsting ondergaat, een objekt van de elfde grootte. Georg Comello nam toevallig op 12 april deze ster in uitbarsting waar.

Zowel SS Cygni als SS Aurigae lieten het niet afweten; SS Cyg had eind januari een maximum van 8.3 terwijl eind maart een stukje van de dalende tak van een maximum werd geregistreerd. SS Aur was begin januari (10.6) en eind maart (10.9) in uitbarsting.

Z Camelopardalis gedraagt zich normaal, terwijl RX Andromedae nog steeds in stilstand was (11.5) toen deze begin maart voor het laatst werd waargenomen.

De pas benoemde UG-ster ER UMa blijkt het prototype te zijn van een nieuwe onderklasse van de UG-sterren. Het betreft hier een variant van de UGSU-sterren ( prototype SU UMa, duidelijk vertegenwoordiger YZ Cancri ), waarbij de supermaxima niet plaatsvinden met een frekwentie van ongeveer 200 dagen maar 40 dagen.

R Coronae Borealis is nog steeds zwak; de helderheid neemt gestaag toe van 13.5 eind januari tot 12.3 nu. SU Tauri is nog steeds bijzonder zwak. Z UMi is weer zichtbaar na een paar maand onzichtbaar geweest te zijn. De helderheid is nu ongeveer 14.5. In het maximum is de helderheid van Z UMi ongeveer 11.

De Mira ster V Camelopardalis heeft zojuist een bijzonder helder maximum (7.5) gehad. Gemiddeld is de helderheid in het maximum 9.4 met als extremen 7.8 en 11.2. Het huidige maximum van X Ursae Maioris is nogal zwak (10.5), gemiddeld is de maximale helderheid 9.9 ( extremen 8.1 en 11.1 ).

-----	097.3	12.0	CMG	105.3	11.9	FJH	096.3	13.8	JRJ	096.35	11.3	JRJ	112.71	9.6	BMU
000451 SS Cas	104.3	12.4	FJH	105.3	12.1	CMG	098.3	13.9	FJH	097.31	11.5	CMG	113.23	9.3	FJH
type Mira	105.3	12.7	CMG	113.3	11.5	CMG	105.3	13.9	CMG	098.27	11.5	FJH	113.34	9.5	CMG
	112.3	12.8	FJH	115.3	11.5	FJH	105.3	14.2	FJH	098.28	11.4	BMU	113.70	9.4	BMU
088.3 12.6 FJH	130.3	13.2	CMG	130.3	11.3	CMG	107.4	14.4	JRJ	104.29	11.2	FJH	113.70	9.6	VDE
088.3 13.0 CMG	135.3	13.6	JRJ	-----			130.3	14.5	JRJ	106.23	11.4	CMG	114.27	9.2	FJH
097.3 12.8 JRJ	-----			003179 Y Cep	-----		-----			107.34	11.1	JRJ	114.71	9.5	BMU
097.3 13.0 FJH	001755 T Cas			type Mira			004533 RR And			108.26	11.6	FJH	115.27	9.4	FJH
097.3 13.2 CMG	type Mira						type Mira			108.39	11.4	CMG	115.72	9.7	BMU
106.3 13.4 FJH				088.3 10.6 CMG						110.25	11.4	CMG	119.31	9.5	CMG
108.3 13.3 JRJ	086.3 11.5 BMU			088.3 10.9 FJH			091.2 14.2 CMG			112.25	11.6	FJH	120.26	9.4	FJH
112.4 13.4 CMG	086.3 11.6 FJH			097.2 10.2 CMG			091.3 14.3 FJH			113.33	11.5	CMG	122.35	9.4	FJH
115.3 13.5 FJH	088.3 11.6 CMG			098.4 9.9 JRJ			096.3 13.9 JRJ			114.26	11.5	FJH	130.30	8.0	BMU
119.3 13.3 CMG	097.3 11.6 FJH			105.3 9.9 FJH			098.3 14.6 FJH			115.25	11.5	FJH	130.31	8.3	CMG
130.3 12.7 CMG	097.3 11.7 CMG			105.3 10.3 CMG			130.3 :14.4 JRJ			120.24	11.4	CMG	130.35	8.0	JRJ
134.3 12.3 JRJ	097.3 12.0 JRJ			111.3 9.9 JRJ			-----			120.26	11.5	FJH	131.37	8.5	CMG
144.4 11.6 JRJ	105.3 11.4 CMG			112.4 10.1 CMG			004746A RV Cas			130.26	11.4	JRJ	132.45	8.5	BMU
149.3 11.4 CMG	106.3 11.6 FJH			115.3 10.0 FJH			type Mira			146.29	11.4	JRJ	134.38	8.4	BMU
151.3 11.2 JRJ	108.3 11.9 JRJ			120.3 10.2 CMG						151.30	11.4	BMU	136.28	8.5	JRJ
154.4 11.3 CMG	112.3 11.3 CMG			130.3 10.5 CMG			088.2 12.8 FJH			152.30	11.4	JRJ	137.27	8.6	BMU
168.3 10.5 CMG	115.3 11.3 FJH			136.3 10.8 JRJ			088.3 13.0 CMG			152.34	11.5	BMU	140.36	8.7	BMU
172.3 9.6 JRJ	119.3 11.1 CMG			150.3 11.4 FJH			097.3 13.0 JRJ			154.31	11.5	BMU	144.28	9.0	BMU
-----	130.3 11.0 CMG			150.4 10.9 CMG			097.3 13.3 CMG			154.31	11.4	CMG	144.28	9.3	FJH
000862 UX Cas	134.3 11.1 JRJ			151.3 11.0 JRJ			105.3 13.5 CMG			-----			144.33	9.2	CMG
type SRb	144.4 10.3 JRJ			155.4 11.2 CMG			106.3 13.4 FJH			005953 N95 Cas			144.43	8.9	JRJ
	149.3 10.0 CMG			169.3 12.6 CMG			108.3 14.1 JRJ			type Nb			146.33	9.1	JRJ
088.3 10.6 CMG	151.3 11.0 JRJ			173.4 12.5 JRJ			135.3 14.8 JRJ						149.31	9.3	BMU
097.3 10.6 CMG	153.3 10.7 FJH			-----			152.3 14.1 CMG			086.30 8.8 BMU			149.33	9.3	CMG
105.3 10.7 CMG	153.3 10.8 JRJ			004047 U Cas			-----			086.30 9.3 FJH			150.29	9.3	CMG
112.4 10.7 CMG	154.4 10.0 CMG			type Mira			004958 W Cas			086.37 8.9 CMG			150.30	9.3	FJH
119.3 10.8 CMG	168.3 9.1 CMG						type Mira			087.27 9.0 BMU			150.30	9.3	JRJ
130.3 10.7 CMG	172.3 9.2 JRJ			088.3 10.8 FJH						088.31 9.2 BMU			150.30	9.4	BMU
149.3 10.6 CMG	-----			088.4 10.3 CMG			088.3 11.8 FJH			088.32 9.4 FJH			151.28	9.2	JRJ
154.4 10.6 CMG	001838 R And			097.3 10.0 CMG			088.3 11.9 CMG			088.39 8.9 CMG			151.31	9.3	BMU
168.3 10.5 CMG	type Mira			097.3 10.0 FJH			097.3 11.8 FJH			089.24 9.3 BMU			151.32	9.4	CMG
-----				097.3 10.1 JRJ			097.3 12.0 CMG			090.30 9.5 BMU			152.29	9.0	JRJ
000928 UW And	086.3 9.6 BMU			098.3 9.9 BMU			097.3 12.0 JRJ			090.47 9.4 FJH			152.30	9.3	CMG
type Mira	086.3 9.8 FJH			105.3 9.1 CMG			104.3 11.8 CMG			091.28 9.4 BMU			152.31	9.3	BMU
	088.3 9.6 CMG			106.3 9.4 FJH			108.3 11.8 JRJ			091.30 9.4 CMG			153.28	9.2	FJH
091.3 14.3 CMG	096.3 8.9 JRJ			108.3 9.1 JRJ			110.2 11.9 FJH			096.44 9.3 BMU			153.29	8.9	JRJ
-----	097.3 9.0 CMG			112.4 8.5 CMG			112.3 11.9 CMG			097.31 9.5 CMG			153.31	9.1	BMU
001046 X And	104.3 8.8 CMG			115.3 9.2 FJH			119.3 11.8 CMG			097.33 9.3 FJH			153.32	9.2	CMG
type Mira	104.3 8.8 FJH			119.3 8.4 CMG			130.3 11.1 JRJ			098.28 9.4 BMU			154.31	8.8	BMU
	107.3 8.5 JRJ			130.4 8.3 CMG			130.3 11.4 CMG			098.41 9.4 CMG			154.32	9.3	CMG
088.2 13.2 FJH	112.3 8.2 CMG			134.3 8.6 JRJ			144.5 11.2 JRJ			098.45 9.5 JRJ			154.38	8.8	JRJ
096.4 13.0 JRJ	113.2 8.3 FJH			149.3 9.0 CMG			149.3 10.8 CMG			104.25 9.5 BMU			155.30	8.9	BMU
098.3 13.5 FJH	120.2 7.9 CMG			151.3 9.4 JRJ			151.3 10.7 JRJ			104.29 9.7 FJH			155.40	9.0	JRJ
105.2 13.6 CMG	130.3 7.6 CMG			154.4 9.4 CMG			153.3 10.7 FJH			105.26 9.6 BMU			158.34	9.1	BMU
105.3 13.7 FJH	130.3 8.0 JRJ			-----			154.4 10.8 CMG			105.30 9.5 CMG			158.34	9.5	CMG
107.3 13.6 JRJ	146.3 7.2 JRJ			004132 RW And			168.3 10.0 CMG			106.24 9.4 CMG			158.43	9.3	JRJ
120.3 13.6 FJH	150.3 7.6 CMG			type Mira			169.4 10.2 JRJ			106.26 9.7 FJH			168.31	9.6	CMG
130.3 13.9 JRJ	152.3 8.2 JRJ						-----			107.30 9.7 BMU			169.41	8.9	JRJ
130.3 14.4 CMG	-----			088.2 14.0 FJH			005840 RX And			108.26 9.8 FJH			169.63	9.2	BMU
-----	002725A TU And			096.3 13.9 JRJ			type UGZ			108.28 9.0 JRJ			173.32	9.0	JRJ
001726 T And	type Mira			098.3 14.4 FJH						110.25 9.9 FJH			173.39	9.5	CMG
type Mira				-----			086.31 11.5 FJH			110.26 9.5 CMG			174.33	9.3	BMU
	088.2 12.4 FJH			004435 V And			086.31 11.5 BMU			110.32 9.8 BMU					
088.2 11.6 FJH	088.3 12.6 CMG			type Mira			088.32 11.5 FJH			111.71 9.7 BMU					
088.3 11.6 CMG	096.3 12.0 JRJ						088.35 11.4 CMG			112.35 9.5 CMG					
096.3 12.1 JRJ	097.3 12.3 CMG			088.2 13.7 FJH			091.25 11.4 CMG			112.71 9.5 VDE					

-----	130.3	10.2	CMG	088.3	9.3	CMG	097.3	12.0	JRJ	type Mira	130.3	5.0	BMU				
010621A X Psc	-----			097.3	9.3	CMG	097.3	12.5	CMG		137.3	4.5	BMU				
type Mira	011272	S Cas		104.3	9.3	CMG	105.3	12.3	CMG	086.3	8.2	BMU	142.3	4.3	BMU		
	type Mira			113.3	9.6	CMG	108.3	12.0	JRJ	086.3	8.8	FJH	151.3	3.9	BMU		
088.3	8.5	CMG		120.3	10.1	CMG	112.4	12.1	CMG	088.3	8.5	CMG	-----				
088.3	8.6	FJH	088.3	11.2	FJH	130.3	10.8	CMG	119.3	12.2	CMG	096.4	7.7	JRJ	021558	S Per	
097.3	8.7	CMG	088.3	11.3	CMG	-----			130.3	11.9	CMG	097.3	8.2	CMG	type SRc		
104.3	8.6	CMG	097.3	11.6	FJH	012746	SX And		134.3	11.5	JRJ	104.3	8.2	CMG			
104.3	8.6	FJH	097.3	11.7	CMG	type Mira			144.5	11.8	JRJ	107.4	8.0	JRJ	088.3	11.3	CMG
113.2	8.7	FJH	105.3	11.9	CMG				149.3	11.7	CMG	110.2	8.4	FJH	097.3	11.5	CMG
113.3	8.7	CMG	106.3	12.0	FJH	088.3	12.9	FJH	151.3	11.5	JRJ	112.3	8.1	CMG	105.3	11.5	CMG
120.3	9.0	CMG	112.4	11.9	CMG	105.3	12.2	FJH	168.3	11.6	CMG	120.3	8.4	CMG	106.4	11.7	FJH
130.3	9.2	CMG	115.3	12.1	FJH	115.3	12.2	FJH	173.3	11.4	JRJ	135.3	9.5	JRJ	112.3	11.7	CMG
-----			119.3	12.1	CMG	-----			-----			146.3	9.8	JRJ	119.4	11.7	CMG
010937	FO And		130.3	12.2	CMG	013050	KT Per		015254	U Per		152.3	10.2	JRJ	120.3	11.9	FJH
type UG			149.3	12.7	CMG	type UGZ			type Mira			153.3	9.8	FJH	130.4	11.7	CMG
			153.3	12.7	FJH							154.4	9.9	CMG	150.3	11.9	CMG
091.26<15.4	FJH		154.4	12.9	CMG	111.36	11.9	FJH	088.3	8.4	CMG	-----			151.3	12.1	FJH
-----			169.4	13.0	CMG	112.26	12.3	FJH	097.3	8.2	CMG	021143A	W And		157.3	12.0	CMG
010940	U And		-----			113.26	12.5	FJH	098.5	8.4	JRJ	type Mira			168.3	12.2	CMG
type Mira			011712	U Psc		-----			105.3	8.5	CMG				-----		
			type Mira			013238	RU And		112.3	8.2	CMG	091.3	13.9	CMG	0220-00	R Cet	
091.3	14.3	FJH				type SRa			119.4	8.3	CMG	091.3	14.2	FJH	type Mira		
091.3	14.9	CMG	091.3	14.5	CMG				130.4	8.4	CMG	096.4	13.5	JRJ			
096.4	14.5	JRJ	105.3	14.4	FJH	096.4	10.9	JRJ	135.3	8.1	JRJ	104.3	13.0	FJH	088.3	7.8	CMG
-----			-----			107.4	11.5	JRJ	146.3	8.1	JRJ	107.4	13.1	JRJ	097.3	8.4	JRJ
011041A	UZ And		012020	RX Psc		108.3	11.2	FJH	150.3	8.3	CMG	115.3	12.8	FJH	104.3	8.8	CMG
type Mira			type Mira			130.3	11.8	JRJ	152.3	8.2	JRJ	130.3	12.3	JRJ	113.3	8.4	CMG
						146.3	12.2	JRJ	155.3	8.2	CMG	146.3	11.5	JRJ	120.4	9.1	CMG
091.3	14.7	CMG	088.3	9.6	CMG	152.3	11.1	JRJ	168.3	8.3	CMG	150.3	12.1	FJH	130.3	10.6	CMG
091.3	15.2	FJH	088.3	9.8	FJH	-----			173.3	8.1	JRJ	152.3	11.7	CMG	-----		
-----			097.3	9.7	CMG	013338	Y And		-----			168.3	11.1	CMG	022132	S Tri	
011055A	VZ Cas		104.3	9.8	CMG	type Mira			015457	V666 Cas		-----			type Mira??		
type Mira			104.3	10.0	FJH				type Mira			021258	T Per				
			113.2	10.1	FJH	091.3	14.6	CMG				type SRc			096.4	10.2	JRJ
088.3	10.2	CMG	113.3	10.2	CMG	091.3	14.6	FJH	097.3	12.3	CMG				104.3	10.1	CMG
088.3	10.5	FJH	120.3	10.3	CMG	096.4	14.5	JRJ	105.3	12.5	CMG	091.3	8.8	CMG	107.4	10.1	JRJ
097.3	10.0	FJH	130.3	10.6	CMG	105.3	14.2	FJH	120.4	12.3	CMG	098.4	9.1	CMG	112.3	10.2	CMG
097.3	10.1	CMG	-----			105.3	14.3	CMG	131.4	12.0	CMG	105.3	9.1	CMG	119.4	10.2	CMG
105.3	10.2	CMG	012350	RZ Per		107.4	14.2	JRJ	150.3	11.6	CMG	119.4	9.1	CMG	130.3	10.2	CMG
108.3	9.9	FJH	type Mira			112.3	13.6	FJH	154.4	11.5	CMG	150.3	8.8	CMG	135.3	10.6	JRJ
112.4	10.2	CMG				130.3	12.0	JRJ	168.3	11.2	CMG	157.3	8.9	CMG	150.3	10.6	CMG
115.3	9.9	FJH	088.3	10.4	CMG	130.3	12.3	CMG	-----			-----			150.3	10.6	JRJ
119.3	10.5	CMG	097.3	10.5	CMG	146.3	10.8	JRJ	020227	Z Tri		021281	Z Cep		155.3	10.6	CMG
130.3	10.7	CMG	098.5	10.7	JRJ	150.3	10.6	CMG	type Mira			type Mira			-----		
149.3	11.8	CMG	105.3	10.4	CMG	152.3	10.7	JRJ							022150	RR Per	
153.3	11.6	FJH	112.3	10.2	CMG	153.3	10.8	FJH	104.3	12.1	FJH	091.2	14.8	CMG	type Mira		
154.4	11.9	CMG	120.2	9.8	CMG	-----			115.3	11.3	FJH	-----					
174.3	12.9	CMG	130.4	9.7	CMG	013937	AR And		-----			0214-03	Mira		088.3	10.3	CMG
-----			135.3	9.3	JRJ	type UGSS			020657A	TZ Per		type Mira			088.3	10.7	FJH
011208	S Psc		146.3	9.5	JRJ				type UGZ						097.3	11.0	CMG
type Mira			150.3	9.6	CMG	111.36	12.3	FJH				088.3	8.5	CMG	098.5	11.1	JRJ
			152.3	9.2	JRJ	112.25	11.9	FJH	098.40	13.4	FJH	088.3	8.6	BMU	105.3	11.2	CMG
088.3	11.6	CMG	155.3	9.8	CMG	113.26	12.0	FJH	108.34	12.9	FJH	097.3	8.6	JRJ	105.3	11.6	FJH
091.2	11.6	FJH	169.3	10.3	CMG	114.26	12.9	FJH	111.36	13.4	FJH	098.3	8.4	BMU	112.3	11.3	CMG
105.3	10.4	FJH	173.3	10.2	JRJ	-----			151.30	14.2	FJH	104.3	7.9	CMG	120.2	12.2	CMG
106.2	10.1	CMG	-----			014958	X Cas		152.33	14.3	FJH	113.3	6.9	CMG	120.3	12.0	FJH
113.2	10.1	FJH	012502	R Psc		type Mira			153.31	13.8	FJH	114.3	6.9	BMU	130.4	12.4	CMG
113.3	10.2	CMG	type Mira						-----			120.4	6.1	CMG	135.3	12.5	JRJ
120.3	10.1	CMG				088.3	12.2	CMG	021024	R Ari		130.3	4.9	CMG	146.3	12.7	JRJ

150.3	12.8	CMG	030226	Z Ari	155.3	10.2	CMG	097.3	9.3	CMG	088.4	9.1	CMG				
151.3	12.7	FJH	type	Mira	168.3	8.9	CMG	105.35	12.7	FJH	098.4	9.1	JRJ	090.5	9.5	FJH	
152.3	12.7	JRJ			173.3	8.9	JRJ	-----			105.3	9.1	CMG	096.4	9.8	JRJ	
155.3	12.8	CMG	091.3	14.3	FJH	-----		041619	T Tau	111.5	8.8	FJH	097.3	9.6	CMG		
169.3	13.3	CMG	153.3	11.3	FJH	032443	GK Per	type	INT	112.3	9.3	CMG	104.3	9.7	FJH		
173.3	13.3	JRJ	-----			type	Na			120.3	8.8	CMG	104.3	9.9	CMG		
-----			030514	U Ari				096.4	9.7	JRJ	130.4	8.7	CMG	107.4	10.1	JRJ	
0228-13	U Cet		type	Mira	105.27	13.4	CMG	107.4	10.4	JRJ	135.3	8.6	JRJ	121.4	10.3	FJH	
type	Mira				105.35	13.0	FJH	130.3	10.4	JRJ	150.3	8.3	CMG	130.4	11.8	JRJ	
			088.4	12.6	CMG	120.27	13.3	FJH	146.3	9.7	JRJ	150.4	8.5	FJH	130.4	11.9	CMG
110.3	8.0	CMG	091.3	12.9	FJH	144.29	11.8	BMU	-----		151.3	8.5	JRJ	146.3	12.8	JRJ	
-----			097.3	13.0	JRJ	144.29	11.9	FJH	041916	VX Tau	155.3	8.5	CMG	149.3	13.1	CMG	
022980	RR Cep		098.4	12.7	CMG	144.33	11.8	CMG	type	Mira	168.4	8.4	CMG	150.3	12.9	FJH	
type	Mira		104.3	13.0	CMG	149.32	11.6	FJH			170.3	8.3	FJH	154.3	13.4	CMG	
			104.3	13.0	FJH	150.30	11.2	FJH	091.2	12.7	CMG	173.4	8.2	JRJ	-----		
091.2	12.9	CMG	130.3	13.9	CMG	150.30	11.6	CMG	091.3	12.6	FJH	-----		044907	FG Ori		
097.2	12.4	CMG	152.3	14.0	CMG	151.30	11.1	FJH	097.3	12.2	CMG	043208	RX Tau	type	Mira		
098.4	12.2	JRJ	-----			151.32	11.4	CMG	104.3	12.2	CMG	type	Mira				
105.3	12.1	CMG	0314-01	X Cet	151.33	11.3	BMU	104.3	12.4	FJH			098.4	12.9	FJH		
105.3	12.2	FJH	type	Mira	152.30	11.5	CMG	121.4	10.8	FJH	091.3	14.2	CMG	105.3	12.3	FJH	
111.3	11.8	JRJ			152.31	11.3	BMU	130.3	10.8	CMG	091.3	14.5	FJH	151.3	11.4	FJH	
112.4	12.0	CMG	089.3	10.8	CMG	152.33	11.1	FJH	149.3	10.4	CMG	096.4	14.2	JRJ	-----		
115.3	11.7	FJH	098.4	10.6	CMG	153.28	11.1	FJH	150.3	10.1	FJH	098.4	14.4	CMG	045307	R Ori	
120.2	11.7	CMG	104.3	10.3	CMG	153.32	11.2	BMU	154.4	10.4	CMG	105.3	14.6	FJH	type	Mira	
130.3	10.7	CMG	110.3	10.3	CMG	153.32	11.6	CMG	-----		107.4	13.9	CMG				
136.3	10.6	JRJ	120.4	9.5	CMG	154.32	11.1	FJH	042209	R Tau	107.4	14.3	JRJ	091.3	12.2	CMG	
150.3	10.2	FJH	130.3	9.1	CMG	154.32	11.3	CMG	type	Mira	130.3	14.1	CMG	096.4	12.3	JRJ	
150.4	10.5	CMG	150.3	8.5	CMG	155.30	11.0	FJH			130.4	14.3	JRJ	098.4	12.0	CMG	
151.3	10.2	JRJ	-----			155.30	11.3	CMG	088.4	9.8	CMG	151.3	13.9	CMG	104.3	11.8	CMG
155.4	10.5	CMG	032043	Y Per	156.34	11.0	FJH	090.5	9.5	FJH	153.3	13.8	JRJ	107.4	11.9	JRJ	
169.3	10.7	CMG	type	Mira	157.32	11.4	CMG	096.4	9.0	JRJ	153.3	13.9	FJH	119.3	11.5	CMG	
173.4	10.7	JRJ			157.34	11.1	FJH	097.3	8.9	CMG	-----		130.3	11.3	CMG		
-----			088.3	9.6	CMG	158.34	11.0	BMU	104.3	8.7	CMG	043274	X Cam	130.4	11.1	JRJ	
023133	R Tri		097.3	9.5	CMG	158.34	11.4	CMG	107.4	8.4	JRJ	type	Mira	146.4	10.5	JRJ	
type	Mira		105.3	9.5	CMG	168.33	10.2	CMG	113.3	8.3	CMG			149.3	10.7	CMG	
			112.3	9.4	CMG	169.32	10.3	CMG	119.2	8.4	CMG	088.3	10.9	CMG	153.3	10.1	JRJ
088.3	8.7	CMG	120.3	9.4	CMG	169.32	10.5	FJH	130.3	8.5	CMG	088.5	10.4	FJH	154.3	10.4	CMG
096.4	9.2	JRJ	130.4	9.4	CMG	170.32	10.4	FJH	130.4	9.0	JRJ	091.3	10.3	BMU	-----		
097.3	8.9	CMG	150.3	9.5	CMG	173.33	10.4	CMG	146.3	9.0	JRJ	097.3	9.9	CMG	0455-14	R Lep	
104.3	9.4	CMG	155.3	9.3	CMG	174.33	10.2	BMU	149.3	9.3	CMG	098.3	10.0	BMU	type	Mira	
107.4	9.7	JRJ	158.3	9.2	BMU	174.34	10.3	CMG	153.3	9.6	FJH	098.4	10.0	JRJ			
112.3	9.6	CMG	168.3	9.2	CMG	-----			153.3	9.8	JRJ	105.3	9.3	CMG	108.4	11.5	CMG
119.3	9.9	CMG	174.3	9.2	BMU	034532	RX Per	154.3	9.3	CMG	111.5	8.8	FJH	152.3	11.6	CMG	
130.3	10.3	CMG	-----			type	Mira	-----			112.3	9.0	CMG	-----			
135.3	10.7	JRJ	032335	R Per				042309	S Tau	119.3	8.4	CMG	045935	AQ Aur			
150.3	11.2	JRJ	type	Mira	151.3	11.2	FJH	type	Mira	130.4	8.2	CMG	type	Mira			
150.3	11.4	CMG			155.3	11.2	CMG			135.4	8.4	JRJ					
153.3	11.2	FJH	091.3	13.9	FJH	168.3	10.8	CMG	107.4	14.8	CMG	150.3	8.5	CMG	091.2	12.3	CMG
155.3	11.5	CMG	097.3	13.7	CMG	-----			130.3	13.2	CMG	151.4	8.8	JRJ	097.3	12.5	CMG
-----			098.5	13.5	JRJ	035716	TZ Tau	130.4	13.1	JRJ	152.3	8.7	BMU	104.3	12.6	CMG	
024217	T Ari		105.3	13.4	FJH	type	Mira	146.3	11.5	JRJ	155.3	9.0	CMG	121.4	13.8	CMG	
type	SRA		105.3	13.5	CMG			149.3	11.5	CMG	158.4	8.9	BMU	152.3	14.0	CMG	
			115.3	12.5	FJH	091.2	12.3	CMG	153.3	10.7	FJH	168.4	10.2	CMG	157.3	14.0	CMG
089.3	10.3	CMG	120.2	12.4	CMG	098.4	12.3	CMG	153.3	10.9	JRJ	170.3	10.8	FJH	-----		
097.3	10.3	CMG	130.4	12.1	CMG	104.3	12.1	CMG	154.3	11.3	CMG	173.4	10.9	JRJ	050003A	V Ori	
104.3	10.4	CMG	146.3	11.0	JRJ	130.3	12.5	CMG	-----		174.4	10.9	BMU	type	Mira		
120.3	10.6	CMG	150.3	10.5	FJH	151.3	12.5	CMG	043065	T Cam	-----						
130.3	10.6	CMG	150.3	10.9	CMG	-----			type	Mira	044617	V Tau	091.3	9.3	CMG		
150.3	10.7	CMG	151.3	10.9	BMU	040150	FO Per	088.5	9.4	FJH	type	Mira	096.4	9.6	JRJ		
-----			152.3	10.6	JRJ	type	UG						097.3	9.7	CMG		

104.3	9.5	CMG	130.4	13.9	CMG	119.2	10.0	CMG	153.3	:16.3	FJH	105.3	13.6	CMG	170.3	10.1	JRJ
106.4	9.7	FJH	150.3	14.2	FJH	120.3	9.8	FJH	-----			135.4	13.0	JRJ	-----		
107.4	9.8	JRJ	152.4	13.9	JRJ	130.3	9.4	JRJ	054615A	Z Tau		150.4	10.2	CMG	060450	X Aur	
112.3	10.4	CMG	157.3	14.2	CMG	130.4	9.5	CMG	type	Mira		150.4	10.6	FJH	type	Mira	
119.3	10.6	CMG	-----			146.4	9.2	JRJ				151.4	10.5	JRJ			
130.3	11.4	CMG	0524-04	S Ori		149.4	9.5	FJH	096.4	13.8	JRJ	155.3	10.2	CMG	088.3	10.1	CMG
134.4	11.5	JRJ	type	Mira		150.4	9.6	CMG	098.4	13.3	CMG	168.4	8.3	CMG	096.4	10.4	JRJ
149.3	12.2	CMG				152.4	9.2	JRJ	098.4	13.7	FJH	170.3	8.7	FJH	097.3	10.8	CMG
152.4	12.4	FJH	091.3	9.6	CMG	155.4	9.6	CMG	105.4	13.8	CMG	173.4	8.6	JRJ	104.3	11.4	CMG
153.3	12.5	JRJ	096.4	10.3	JRJ	156.3	9.7	FJH	106.4	13.7	FJH	-----			107.5	11.6	JRJ
154.3	12.5	CMG	098.4	9.7	CMG	168.3	10.1	FJH	107.4	13.7	JRJ	055439	AZ Aur		112.3	12.0	CMG
-----			104.3	9.6	CMG	169.3	9.7	CMG	130.3	13.6	CMG	type	Mira		119.2	12.7	CMG
050953	R Aur		107.4	10.5	JRJ	170.3	9.9	JRJ	134.4	13.8	JRJ				130.3	13.2	JRJ
type	Mira		110.3	9.9	CMG	-----			150.4	13.6	CMG	091.2	12.5	CMG	130.4	13.4	CMG
			119.3	10.0	CMG	053531	U Aur		152.4	13.6	CMG	097.3	12.7	CMG	151.4	13.3	JRJ
088.3	10.5	CMG	130.3	9.9	CMG	type	Mira		153.3	13.7	JRJ	105.3	12.6	FJH	155.4	13.0	CMG
088.3	11.0	FJH	134.4	9.8	JRJ				153.3	13.8	FJH	120.3	12.7	CMG	169.3	11.3	CMG
096.4	11.9	JRJ	146.4	9.6	JRJ	090.5	12.3	FJH	154.4	13.6	CMG	130.4	12.8	CMG	170.3	11.0	JRJ
097.3	11.0	CMG	149.3	9.6	CMG	091.2	12.4	CMG	-----			149.4	12.7	FJH	-----		
104.3	11.6	CMG	153.3	9.6	JRJ	096.5	12.5	JRJ	054615C	RU Tau		150.4	13.0	CMG	060547	SS Aur	
105.5	12.5	FJH	154.3	9.5	CMG	097.3	12.3	CMG	type	Mira		155.4	13.0	CMG	type	UGSS	
107.5	12.4	JRJ	173.3	8.1	CMG	104.3	11.9	CMG				156.3	12.8	FJH			
112.3	11.8	CMG	173.3	8.2	JRJ	106.4	12.2	FJH	096.4	11.7	JRJ	-----			091.24	15.0	FJH
114.5	12.6	FJH	-----			107.4	12.2	JRJ	098.4	11.6	CMG	055716	RR Ori		095.49	14.2	FJH
119.2	12.1	CMG	052607	BK Ori		113.3	11.3	CMG	098.4	12.0	FJH	type	Mira		096.44	10.8	JRJ
122.4	12.7	FJH	type	Mira		119.2	10.8	CMG	104.3	11.8	CMG				096.44	10.6	FJH
130.3	12.8	JRJ				120.3	10.3	FJH	106.4	12.2	FJH	091.3	11.6	CMG	097.32	10.7	FJH
130.4	12.3	CMG	098.4	10.2	FJH	130.3	9.7	JRJ	107.4	12.0	JRJ	097.3	12.1	CMG	097.33	10.9	CMG
146.4	13.0	JRJ	105.3	10.0	FJH	130.4	9.7	CMG	130.3	12.2	CMG	104.3	12.6	CMG	098.27	11.2	FJH
149.4	13.0	FJH	151.3	11.4	FJH	146.4	8.7	JRJ	130.4	12.1	JRJ	152.3	14.1	CMG	098.39	11.0	JRJ
150.4	12.7	CMG	-----			149.4	8.8	FJH	146.4	12.2	JRJ	-----			098.41	11.2	CMG
152.3	13.4	JRJ	0532-01	X Ori		150.4	8.6	CMG	150.4	12.4	CMG	060246	VY Aur		105.24	14.3	JRJ
155.3	13.3	FJH	type	M		152.4	8.6	JRJ	152.4	12.8	FJH	type	Mira		105.33	14.3	FJH
155.4	13.3	CMG				155.4	8.3	CMG	153.3	12.9	JRJ				106.44	14.8	FJH
169.3	13.4	CMG	153.3	13.6	CMG	156.3	8.6	FJH	-----			095.5	13.3	FJH	107.45	15.0	FJH
169.3	13.4	FJH	157.3	13.5	CMG	169.3	8.4	CMG	054920A	U Ori		105.3	13.3	FJH	108.34	14.2	FJH
-----			174.3	13.3	CMG	170.3	8.4	FJH	type	Mira		150.3	14.3	FJH	110.41	14.9	FJH
052034	S Aur		-----			172.3	8.4	JRJ	-----			-----			111.33	14.3	FJH
type	SRA		053326	RR Tau		-----			091.3	8.5	CMG	060443	RR Aur		131.37:15.0	CMG	
			type	INAS		053538	SZ Aur		096.4	8.7	JRJ	type	Mira		135.33<14.8	JRJ	
096.5	13.0	JRJ				type	Mira		097.3	8.6	CMG				150.30	14.9	FJH
107.5	12.5	JRJ	091.3	11.5	CMG				104.3	8.7	CMG	096.5	14.2	JRJ	150.30<14.5	JRJ	
130.3	12.3	JRJ	097.3	11.6	CMG	091.2	13.2	FJH	107.4	8.5	JRJ	098.4	13.5	FJH	151.31	15.0	FJH
146.4	12.4	JRJ	104.3	11.3	CMG	091.2	13.3	CMG	111.3	9.2	FJH	098.4	14.2	CMG	152.31	15.0	FJH
152.4	12.5	JRJ	119.2	10.0	CMG	098.4	13.6	CMG	112.3	8.8	CMG	106.4	13.5	FJH	152.33	15.2	CMG
172.3	12.4	JRJ	130.3	11.1	CMG	105.3	13.9	CMG	119.3	8.9	CMG	107.4	13.3	CMG	153.29	14.9	FJH
-----			149.3	11.4	CMG	108.3	13.4	FJH	130.3	9.0	CMG	107.5	13.5	JRJ	153.33	15.2	CMG
052036	W Aur		154.3	11.0	CMG	121.4	13.9	CMG	146.4	9.3	JRJ	113.3	12.7	CMG	154.32	15.1	CMG
type	Mira		173.3	12.0	CMG	122.4	13.6	FJH	149.3	10.4	CMG	120.3	12.7	CMG	154.32	14.9	FJH
			-----			131.4	14.2	CMG	151.3	10.5	FJH	121.4	13.1	FJH	155.30	14.8	FJH
088.5	12.5	FJH	053337	RU Aur		150.3	14.1	FJH	152.4	9.3	JRJ	130.3	12.3	JRJ	156.33	15.0	FJH
091.2	12.4	CMG	type	Mira		152.3	14.4	CMG	154.3	10.5	CMG	130.4	12.5	CMG	168.33	11.1	FJH
096.5	12.7	JRJ				157.3	14.5	CMG	173.3	10.9	CMG	146.4	11.0	JRJ	169.30	10.9	CMG
097.3	13.2	CMG	091.2	12.7	FJH	-----			173.4	10.7	JRJ	150.4	11.2	CMG	169.32	10.9	FJH
098.4	12.9	FJH	091.2	13.0	CMG	054319	SU Tau		-----			150.4	11.2	FJH	170.32	10.9	JRJ
105.3	13.2	CMG	096.5	12.9	JRJ	type	RCB		054974	V Cam		152.4	10.7	JRJ	170.32	11.1	FJH
106.4	13.5	FJH	097.3	12.9	CMG				type	Mira		155.4	11.3	CMG	172.31	11.4	JRJ
107.5	13.5	JRJ	105.3	12.2	CMG	108.5	<15.1	FJH				156.3	10.9	FJH	173.32	12.0	CMG
121.4	13.5	CMG	105.3	12.3	FJH	150.3	<15.1	FJH	091.2	13.5	CMG	168.3	10.4	FJH	173.33	11.7	JRJ
130.3	13.8	JRJ	107.5	11.8	JRJ	152.4	<14.7	CMG	098.4	13.5	JRJ	169.3	10.0	CMG	174.32	12.4	JRJ

174.33 12.4 CMG	061725 ZZ Gem	152.3 13.9 CMG	112.3 9.0 CMG		111.5 9.0 JRJ
-----	type Mira	158.3 13.9 CMG	120.3 9.1 CMG	106.4 14.6 CMG	112.3 9.0 CMG
060746A ST Aur		158.4 13.7 JRJ	130.3 9.1 CMG	-----	120.4 9.4 CMG
type Mira	091.3 9.4 CMG	169.3 13.7 FJH	131.4 9.0 JRJ	070109 V Cmi	130.3 9.3 CMG
	097.3 9.4 CMG	-----	150.3 9.7 CMG	type Mira	134.4 9.4 JRJ
152.3 :14.5 CMG	105.3 9.5 CMG	063308 R Mon	150.3 9.9 JRJ		150.3 10.1 CMG
157.3 :14.5 CMG	112.3 9.5 CMG	type Ina	153.3 10.4 FJH	091.3 8.8 CMG	150.4 9.8 JRJ
-----	120.3 9.5 CMG		155.3 9.9 CMG	096.5 8.8 FJH	155.3 10.0 CMG
061115 CZ Ori	130.3 9.6 CMG	152.3 11.7 CMG	158.4 10.2 JRJ	096.5 9.0 JRJ	158.4 9.5 JRJ
type UGSS	150.3 10.2 CMG	-----	169.3 10.7 CMG	096.6 8.7 CMG	169.3 10.4 CMG
	155.3 10.6 CMG	063444A AA Aur	173.4 10.9 JRJ	105.4 9.1 CMG	174.4 10.3 JRJ
105.34 14.2 FJH	169.4 10.8 CMG	type Mira	-----	105.4 9.1 FJH	-----
108.45<14.7 FJH	-----		064128 IR Gem	111.5 9.1 JRJ	070607 WX Cmi
150.31<14.4 FJH	061925 VV Gem	091.2 10.6 CMG	type UGSU	120.4 9.5 CMG	type Mira
151.31 14.7 FJH	type Mira	097.3 10.4 CMG		122.3 9.5 FJH	
152.31 12.7 FJH		104.3 10.3 CMG	098.38<15.5 FJH	130.3 9.8 CMG	153.4 :14.6 CMG
153.30 12.7 FJH	106.3 13.8 CMG	105.3 10.1 FJH	105.33 12.5 FJH	134.4 10.1 JRJ	-----
154.32 12.9 FJH	150.3 11.2 CMG	112.3 10.2 CMG	106.43 13.5 FJH	149.3 10.7 FJH	070714 VX Gem
155.30 13.0 FJH	153.3 10.9 FJH	119.2 10.2 CMG	107.45 15.1 FJH	150.3 10.8 CMG	type Mira
156.33 14.1 FJH	155.3 10.9 CMG	121.4 9.9 FJH	151.31<14.9 FJH	150.4 10.8 JRJ	
-----	169.4 10.8 CMG	130.4 10.4 CMG	152.39 15.5 FJH	155.3 10.9 CMG	096.6 10.6 CMG
061275 W Cam	-----	149.4 10.9 FJH	153.30:15.6 FJH	156.3 11.3 FJH	105.3 10.7 CMG
type Mira	062564 RT Cam	150.4 10.5 CMG	154.33 15.5 FJH	158.4 11.2 JRJ	112.3 10.7 CMG
	type Mira	155.4 10.8 CMG	-----	169.3 10.9 CMG	120.3 11.1 CMG
152.3 13.9 CMG		156.3 11.6 FJH	065111 Y Mon	174.4 12.0 JRJ	130.3 11.7 CMG
-----	088.4 11.8 CMG	169.3 12.1 CMG	type Mira	-----	150.3 12.2 CMG
061647 V Aur	097.3 11.9 CMG	-----		070122A R Gem	155.3 12.0 CMG
type Mira	105.3 12.1 CMG	063558 S Lyn	091.3 9.9 CMG	type Mira	174.3 12.4 CMG
	112.4 12.3 CMG	type Mira	096.5 9.5 JRJ		-----
088.3 9.5 CMG	120.3 12.8 CMG		098.4 10.4 CMG	096.5 8.8 JRJ	071026 WZ Gen
096.4 10.0 JRJ	131.4 13.1 CMG	088.4 11.6 CMG	105.3 10.4 CMG	096.7 9.1 CMG	type Mira
097.3 9.7 CMG	152.3 13.5 CMG	097.3 12.4 FJH	111.5 10.8 JRJ	104.3 8.9 FJH	
104.3 9.5 CMG	158.3 13.8 CMG	097.3 12.5 CMG	112.3 11.1 CMG	104.3 9.2 CMG	096.5 11.8 JRJ
107.5 9.5 JRJ	-----	098.4 12.4 JRJ	120.3 11.7 CMG	107.5 9.1 JRJ	096.5 12.0 FJH
112.3 9.1 CMG	062574 SU Cam	105.3 12.5 CMG	130.3 12.5 CMG	112.3 9.2 CMG	096.6 12.0 CMG
119.2 9.5 CMG	type Mira	106.4 13.3 FJH	134.4 13.0 JRJ	120.3 9.4 CMG	104.3 12.4 FJH
130.3 9.1 JRJ		112.4 13.1 CMG	150.3 13.7 CMG	130.3 10.0 CMG	105.3 12.5 CMG
130.4 9.2 CMG	091.2 14.1 CMG	120.3 13.5 CMG	150.4 13.7 JRJ	131.4 10.1 JRJ	107.5 12.4 JRJ
146.4 9.5 JRJ	152.3 14.6 CMG	131.4 13.7 CMG	153.3 13.6 JRJ	149.4 10.4 FJH	120.3 12.7 CMG
152.3 9.4 JRJ	152.4 :15.0 FJH	134.5 13.8 JRJ	154.4 13.9 CMG	150.3 10.6 JRJ	122.4 13.0 FJH
153.3 9.7 FJH	-----	150.3 14.0 FJH	-----	155.3 10.3 CMG	130.3 13.7 CMG
155.4 9.2 CMG	063025 BR Gem	151.4 14.1 JRJ	065355 R Lyn	157.3 10.8 FJH	131.4 13.3 JRJ
169.3 9.1 CMG	type Mira	152.3 14.2 CMG	type Mira	158.4 10.4 JRJ	150.3 14.3 CMG
170.3 9.6 FJH		158.4 :14.1 JRJ		168.4 11.2 CMG	150.3 14.3 FJH
170.3 9.6 JRJ	096.6 14.4 CMG	-----	088.4 7.3 CMG	173.4 11.1 JRJ	150.3 :14.6 JRJ
-----	108.3 :14.4 FJH	0640-16 HL Cma	097.3 7.7 CMG	-----	-----
0617-02 V Mon	151.3 11.7 CMG	type UGSS+XM	098.4 7.7 JRJ	070205 RS Mon	071201 RR Mon
type Mira	152.4 11.2 FJH		105.3 7.7 CMG	type Mira	type Mira
	155.3 11.6 CMG	151.33 11.4 BMU	112.4 8.0 CMG		
098.4 11.7 CMG	169.4 11.6 CMG	152.32 11.5 BMU	120.3 8.0 CMG	096.5 13.3 JRJ	107.4 13.1 CMG
098.5 11.5 JRJ	-----	153.31 12.0 CMG	131.4 8.7 CMG	098.4 13.0 CMG	120.4 11.6 CMG
105.3 12.1 CMG	063159 U Lyn	-----	134.5 8.9 JRJ	174.3 12.0 CMG	130.3 11.3 CMG
120.3 12.6 CMG	type Mira	064030 X Gem	150.4 9.2 CMG	-----	150.3 11.3 CMG
130.3 12.4 CMG		type Mira	151.4 9.4 JRJ	070310 R Cmi	154.4 11.3 CMG
134.4 12.7 JRJ	098.4 15.0 FJH		155.4 9.6 CMG	type Mira	174.3 11.3 CMG
150.3 12.8 CMG	105.3 14.7 CMG	091.3 9.3 CMG	158.4 9.3 JRJ		-----
153.3 13.0 JRJ	106.4 14.9 FJH	096.5 9.5 JRJ	169.3 10.0 CMG	091.3 8.5 CMG	071713 V Gen
154.4 12.5 CMG	131.4 14.5 CMG	097.3 9.5 CMG	-----	096.5 8.7 JRJ	type Mira
174.3 12.8 CMG	150.3 14.2 FJH	105.3 9.2 CMG	065910 BC Gem	096.6 8.8 CMG	
-----	151.4 14.1 JRJ	107.5 8.8 JRJ	type Mira	105.3 8.8 CMG	096.5 9.7 JRJ

096.6	10.0	CMG	type Mira	174.4	9.1	JRJ	098.38	14.7	FJH	158.33	12.8	CMG	126.43	12.1	CMG		
105.3	9.4	CMG		-----			098.40	14.1	JRJ	158.34	12.8	BMU	149.39	11.9	FJH		
105.4	9.3	FJH	108.4	15.1	FJH	073723	S Gem	105.33	14.2	FJH	158.34	12.3	JRJ	150.29	12.4	BMU	
111.5	8.4	JRJ	134.4	13.8	JRJ	type Mira		106.29	14.3	CMG	169.47	14.7	FJH	150.30	12.2	FJH	
112.3	8.9	CMG	150.3	12.8	FJH			106.43	13.9	FJH	-----			150.34	12.3	CMG	
120.3	8.5	CMG	150.4	12.7	JRJ	091.3	11.8	CMG	107.36	14.3	CMG	075320	BP Gem	151.31	13.1	BMU	
122.3	8.6	FJH	153.4	13.8	CMG	096.5	12.4	JRJ	107.45	14.1	FJH	type Mira		151.31	13.0	FJH	
130.3	8.4	CMG	158.4	12.1	JRJ	096.7	12.0	CMG	107.48	14.0	JRJ			151.32	13.1	CMG	
134.4	8.3	JRJ	169.3	12.3	CMG	104.3	12.5	FJH	107.57	14.2	CMG	096.6	14.3	CMG	152.33	14.7	FJH
150.3	8.8	CMG	174.4	12.1	JRJ	105.3	12.7	CMG	108.31	14.2	FJH	151.3	14.3	CMG	152.33	14.0	CMG
150.4	8.8	JRJ	-----			107.5	12.7	JRJ	108.38	14.2	CMG	151.3	14.7	CMG	153.29	15.0	FJH
153.3	9.2	FJH	073234	ST Gem		120.3	13.3	CMG	108.64	14.3	CMG	152.4	:15.1	FJH	153.34	14.3	CMG
155.3	8.9	CMG	type Mira			122.4	13.0	FJH	110.40	14.1	FJH	-----			154.33	14.5	FJH
158.4	9.4	JRJ				130.3	13.4	CMG	110.67	14.3	CMG	080362	SU UMa		155.31	14.6	FJH
169.3	9.6	CMG	095.5	13.8	FJH	131.4	13.5	JRJ	111.33	14.2	FJH	type UGSU			156.33	12.0	FJH
174.3	9.8	JRJ	096.6	14.5	CMG	149.4	14.1	FJH	111.67	14.1	CMG				157.33	11.8	FJH
-----			098.4	14.0	JRJ	150.3	13.6	JRJ	112.42	14.2	FJH	088.34	11.9	FJH	157.35	10.8	CMG
072141	VX Aur		105.4	14.1	FJH	150.3	13.9	CMG	121.41	14.2	CMG	090.46	12.1	FJH	158.34	10.8	CMG
type Mira			106.3	14.5	CMG	155.3	13.9	CMG	122.36	13.6	FJH	095.49	14.2	FJH	158.34	11.2	BMU
			107.5	13.9	JRJ	156.3	14.0	FJH	126.42	14.2	CMG	096.48	13.8	FJH	169.32	12.0	CMG
091.2	12.5	CMG	131.4	12.8	JRJ	158.4	14.0	JRJ	130.29	14.2	CMG	096.68	13.8	CMG	169.47	11.9	FJH
098.4	12.2	CMG	150.3	11.8	JRJ	169.5	14.5	FJH	130.33	13.8	BMU	098.40	12.7	FJH	-----		
104.3	12.3	CMG	150.4	12.0	FJH	-----			131.36	14.0	CMG	098.42	12.6	CMG	080523	RR Cnc	
105.3	12.3	FJH	153.3	11.7	CMG	073914	BE Gem		131.37	13.6	JRJ	105.34	13.6	FJH	type Mira		
119.2	11.4	CMG	158.4	11.7	JRJ	type Mira			134.27	14.2	JRJ	106.43	13.9	FJH			
130.4	11.3	CMG	169.3	10.6	CMG				135.34	14.3	JRJ	107.45	14.1	FJH	096.6	10.2	CMG
150.4	10.9	CMG	174.3	10.2	JRJ	096.6	14.5	CMG	144.33	14.3	CMG	108.46	12.2	FJH	105.4	10.4	CMG
153.3	10.8	FJH	-----			108.3	13.7	FJH	149.30	9.2	CMG	110.42	13.6	FJH	106.5	10.7	FJH
155.4	10.8	CMG	073336	RU Lyn		152.4	14.6	FJH	149.31	9.1	BMU	111.34	13.7	FJH	112.4	10.5	CMG
169.3	10.3	CMG	type Mira			-----			149.31	9.1	FJH	112.43	13.8	FJH	120.4	10.7	CMG
-----						074323	T Gem		150.28	9.3	BMU	113.66	14.4	FJH	130.4	11.8	CMG
0724-04	RX Mon		096.5	10.8	FJH	type Mira			150.30	9.1	FJH	121.42	12.6	FJH	150.3	13.1	FJH
type Mira			096.6	10.7	CMG				150.32	9.5	CMG	122.35	12.7	FJH	150.3	13.3	CMG
			111.5	11.6	FJH	091.3	9.0	CMG	150.33	9.4	JRJ	152.32	13.7	FJH	155.3	13.3	CMG
098.4	9.9	CMG	121.4	12.3	CMG	096.5	8.7	JRJ	151.31	9.3	BMU	152.32	14.2	CMG	156.3	13.4	FJH
153.3	:14.0	JRJ	150.3	13.3	FJH	096.7	90.J	CMG	151.31	9.2	FJH	153.29	13.8	FJH	169.3	13.6	CMG
154.4	12.7	CMG	150.4	13.5	CMG	104.3	8.7	FJH	151.32	9.5	CMG	154.33	13.8	FJH	169.5	13.8	FJH
-----			158.3	13.8	CMG	105.3	9.0	CMG	151.38	9.6	JRJ	156.46	13.1	FJH	-----		
072708	S Cmi		-----			107.5	8.6	JRJ	152.28	9.6	JRJ	157.33	12.2	FJH	080837	RT Lyn	
type Mira			073508	U Cmi		112.3	9.0	CMG	152.32	9.5	CMG	158.35	12.8	CMG	type Mira		
			type Mira			120.3	9.0	CMG	152.33	9.2	FJH	169.33	13.6	FJH			
096.5	10.7	JRJ				122.3	8.8	FJH	152.33	9.4	BMU	-----			096.5	13.2	FJH
096.5	11.4	FJH	096.5	10.5	FJH	130.3	9.1	CMG	153.27	9.4	FJH	080428	YZ Cnc		096.6	13.3	CMG
096.6	10.8	CMG	096.5	10.5	JRJ	131.4	9.0	JRJ	153.28	9.9	JRJ	type UGSU			106.3	13.4	CMG
105.4	10.7	CMG	096.6	9.8	CMG	150.3	9.1	CMG	153.31	9.5	CMG				106.4	13.1	FJH
106.4	11.1	FJH	105.3	10.1	CMG	150.3	9.1	JRJ	153.31	9.5	BMU	095.48	14.5	FJH	151.3	:14.1	FJH
111.5	10.6	JRJ	105.4	10.4	FJH	150.4	9.0	FJH	154.32	9.9	FJH	096.46	14.7	FJH	152.4	14.0	CMG
120.4	10.3	CMG	111.5	9.8	JRJ	155.3	9.4	CMG	154.32	9.5	BMU	096.56	14.1	CMG	158.3	14.0	CMG
122.3	10.0	FJH	112.3	9.8	CMG	157.3	9.0	FJH	154.38	10.0	JRJ	098.38	14.7	FJH	-----		
130.3	9.9	CMG	120.4	9.6	CMG	158.4	9.1	JRJ	154.38	9.8	CMG	098.42	14.3	CMG	081040	W Lyn	
134.4	9.9	JRJ	122.3	9.6	FJH	168.4	9.6	CMG	155.30	10.0	BMU	105.45	15.0	FJH	type Mira		
150.3	9.5	CMG	130.3	9.4	CMG	174.3	10.0	JRJ	155.30	10.5	FJH	106.41	14.3	CMG			
150.4	9.4	JRJ	134.4	9.1	JRJ	-----			155.31	10.1	CMG	106.43:14.9	FJH		096.5	14.0	FJH
154.3	9.1	FJH	149.4	9.3	FJH	074922	U Gem		155.39	10.6	JRJ	107.36	14.1	CMG	106.4	:14.8	FJH
155.3	9.4	CMG	150.3	9.1	CMG	type UGSS+E			156.29	10.8	JRJ	107.45	14.7	FJH	152.3	:15.0	CMG
158.4	9.3	JRJ	150.4	8.8	JRJ				156.32	11.1	FJH	108.27	12.5	FJH	152.4	<15.0	FJH
169.3	8.8	CMG	155.3	8.8	CMG	095.48	14.1	FJH	156.40	11.1	CMG	110.40	13.1	FJH			
174.4	8.6	JRJ	156.3	9.3	FJH	096.46	14.2	FJH	157.32	12.2	CMG	110.66	13.7	CMG			
-----			158.4	9.1	JRJ	096.48	14.2	JRJ	157.33	11.7	FJH	111.33	14.5	FJH			
072811	T Cmi		169.3	8.9	CMG	096.56	14.3	CMG	157.35	12.1	JRJ	112.43:14.7	FJH				



-----	144.34	11.2	CMG	111.5	10.9	FJH	152.3	12.7	CMG	150.33	13.4	FJH	096.5	14.4	FJH
081112 R Cnc	149.40	11.4	FJH	112.4	10.7	CMG	153.4	13.0	JRJ	150.34	13.2	CMG	096.6	14.5	CMG
type Mira	150.29	11.7	BMU	120.3	10.5	CMG	158.3	12.1	CMG	150.35	13.2	JRJ	105.5	14.5	FJH
	150.30	11.6	CMG	131.4	9.9	CMG	169.3	10.5	CMG	151.32	13.4	FJH	107.6	15.1	CMG
096.6 8.5 JRJ	150.30	11.7	FJH	134.4	10.3	JRJ	169.3	10.6	JRJ	152.33	13.2	FJH	151.3	14.3	FJH
096.6 8.6 CMG	151.30	11.7	BMU	150.3	9.9	JRJ	169.5	10.9	FJH	152.42	13.1	CMG	153.3	13.8	CMG
105.4 8.5 CMG	151.32	12.0	FJH	150.4	10.2	CMG	-----			153.31	12.9	FJH	169.5	12.8	FJH
111.5 8.7 JRJ	151.35	11.9	CMG	154.3	9.5	FJH	084803 S Hya			153.34	13.1	CMG	-----		
112.4 8.7 CMG	151.36	11.6	JRJ	155.4	10.2	CMG	type Mira			154.33	12.8	FJH	093934 R Lmi		
120.4 8.7 CMG	152.31	11.8	BMU	158.4	9.8	JRJ				154.41	12.6	CMG	type Mira		
130.4 9.1 CMG	152.46	11.6	FJH	169.3	10.0	CMG	096.6 12.3 CMG			155.30	12.7	FJH			
134.4 8.6 JRJ	153.29	12.0	FJH	-----			096.6 12.7 JRJ			155.33	12.3	CMG	095.5	11.7	FJH
150.3 9.7 CMG	153.33	11.8	CMG	081935 X Lyn			106.4 12.8 CMG			156.33	12.5	FJH	096.6	11.6	JRJ
150.4 9.9 JRJ	154.31	12.0	BMU	type Mira			111.6 13.0 JRJ			157.33	12.4	FJH	096.6	11.9	CMG
155.3 9.7 CMG	154.32	12.1	FJH				112.4 12.8 CMG			157.35	12.2	CMG	105.3	11.9	CMG
158.4 10.0 JRJ	154.38	11.9	CMG	134.4 14.6 JRJ			130.4 12.9 CMG			158.35	12.2	CMG	105.4	12.0	FJH
169.3 10.3 CMG	155.31	12.2	FJH	150.3 13.6 JRJ			134.4 12.8 JRJ			158.39	11.7	JRJ	111.6	12.0	JRJ
-----	155.31	12.2	CMG	150.4 12.9 FJH			150.3 11.5 CMG			169.33	13.4	CMG	112.4	12.0	CMG
081473 Z Cam	155.48	11.8	BMU	150.4 13.1 CMG			151.4 11.4 JRJ			169.48	13.4	FJH	115.5	12.1	FJH
type UGZ	156.33	12.2	FJH	158.3 12.7 CMG			155.4 11.1 CMG			-----			120.4	12.1	CMG
	157.32	11.9	CMG	158.4 12.3 JRJ			158.4 10.9 JRJ			090425 W Cnc			131.4	12.7	CMG
088.34 13.3 FJH	157.33	12.3	FJH	169.4 11.6 CMG			169.3 10.4 CMG			type Mira			134.5	12.7	JRJ
088.35 13.2 CMG	158.33	12.4	CMG	-----			-----						150.3	12.8	CMG
090.47 13.4 FJH	158.36	12.2	BMU	083013 UY Cnc			0850-08 T Hya			096.5 13.3 FJH			150.3	13.0	FJH
091.24 13.0 CMG	168.36	12.8	CMG	type Mira			type Mira			096.6 13.0 JRJ			151.4	12.9	JRJ
091.27 13.3 BMU	169.30	12.9	CMG							096.6 13.3 CMG			155.4	12.9	CMG
095.49 10.9 FJH	169.32	12.7	FJH	096.5 14.2 FJH			096.6 11.4 CMG			105.4 12.8 CMG			157.3	13.0	FJH
096.45 10.8 FJH	170.33	12.7	FJH	096.6 14.4 CMG			107.6 11.8 CMG			105.4 12.9 FJH			158.4	13.0	JRJ
096.66 11.2 CMG	173.33	12.2	CMG	107.4 14.6 CMG			151.4 12.4 CMG			111.6 13.2 JRJ			169.3	13.1	CMG
097.35 11.2 FJH	173.38	11.8	JRJ	108.4 14.4 FJH			-----			112.4 13.0 CMG			169.5	13.2	FJH
098.29 10.8 BMU	174.33	11.1	CMG	150.3 14.7 FJH			0853-00 TU Hya			115.5 12.8 FJH			-----		
098.40 11.5 FJH	174.37	11.4	BMU	152.3 14.8 CMG			type Mira			120.4 12.8 CMG			093952 ER UMa		
098.42 11.5 CMG	-----			-----						130.4 12.4 CMG			type UG		
098.44 11.1 JRJ	081617 V Cnc			083019 U Cnc			107.4 10.4 CMG			134.4 11.5 JRJ					
105.29 12.9 CMG	type Mira			type Mira			153.3 13.5 CMG			150.3 10.0 FJH			105.45:15.0		FJH
105.32 13.3 FJH							-----			150.3 10.1 CMG			106.43	14.7	FJH
106.42 13.0 FJH	096.6 9.8 CMG			096.5 11.7 FJH			085518 SY Cnc			150.3 10.2 JRJ			108.46	13.0	FJH
107.44 13.0 FJH	096.6 9.8 JRJ			096.6 11.4 CMG			type UGZ			155.3 9.2 CMG			110.42	13.6	FJH
107.57 13.2 CMG	105.4 10.1 CMG			096.6 11.6 JRJ						156.3 9.3 FJH			111.33	14.4	FJH
108.38 13.2 CMG	105.4 10.4 FJH			105.4 10.6 CMG			096.46 12.7 FJH			158.4 9.5 JRJ			112.43	14.0	FJH
108.46 12.9 FJH	111.5 10.3 JRJ			105.4 11.5 FJH			096.56 12.7 CMG			169.3 8.2 CMG			113.66	12.5	FJH
110.24 13.0 CMG	112.4 10.3 CMG			111.5 11.6 JRJ			096.58 12.7 JRJ			-----			114.44	12.5	FJH
110.42 13.0 FJH	120.4 10.5 CMG			112.4 11.5 CMG			098.42 13.1 CMG			093178 Y Dra			115.45	12.6	FJH
111.34 13.0 FJH	130.4 11.2 CMG			115.5 11.7 FJH			105.37 13.1 CMG			type Mira			121.42	13.2	FJH
111.67 13.0 CMG	134.4 11.0 JRJ			130.4 11.8 CMG			105.44 13.2 FJH						152.32	14.9	FJH
112.40 13.0 CMG	150.3 11.9 FJH			134.4 12.0 JRJ			106.45 12.9 FJH			088.3 10.2 FJH			153.29	13.5	FJH
112.44 13.0 FJH	150.3 12.1 CMG			150.3 12.5 CMG			107.37 12.5 CMG			088.4 10.6 CMG			154.32	13.6	FJH
113.33 13.0 CMG	150.4 12.0 JRJ			150.3 12.6 FJH			107.45 12.7 FJH			096.6 11.5 CMG			156.46	14.3	FJH
113.66 12.9 FJH	155.3 12.4 CMG			150.4 12.5 JRJ			108.44 12.5 FJH			098.5 11.4 FJH			158.35	13.5	CMG
114.44 13.0 FJH	156.3 12.5 FJH			155.3 12.8 CMG			108.63 12.2 CMG			105.3 11.9 CMG			158.37	13.2	BMU
114.66 13.0 CMG	158.4 12.1 JRJ			156.3 13.0 FJH			110.41 11.9 FJH			108.5 11.8 FJH			169.46	12.3	FJH
115.45 12.6 FJH	169.3 12.7 CMG			158.4 13.0 JRJ			110.66 11.9 CMG			112.7 12.3 CMG			173.40	12.7	CMG
115.70 12.7 CMG	169.5 12.9 FJH			169.3 13.4 CMG			111.48 12.0 FJH			120.4 12.8 CMG			-----		
120.26 10.9 FJH	-----			169.5 13.5 FJH			111.56 11.3 JRJ			131.4 13.1 CMG			094211 R Leo		
120.33 10.9 CMG	081633 T Lyn			-----			111.67 11.9 CMG			150.3 13.7 FJH			type Mira		
121.41 10.9 FJH	type Mira			083350 X UMa			112.44 12.0 FJH			150.4 13.5 CMG					
121.42 10.8 CMG				type Mira			114.46 12.7 FJH			-----			096.6	6.5	CMG
122.35 11.5 FJH	096.6 11.0 CMG						120.35 12.9 CMG			093720 RS Leo			096.6	6.9	JRJ
130.29 13.0 BMU	098.4 11.3 JRJ			112.4 :15.4 FJH			130.42 12.7 CMG			type Mira			106.4	6.2	CMG
131.36 12.9 CMG	105.3 11.3 CMG			151.3 13.3 FJH			134.44 11.1 JRJ						111.5	6.1	FJH

111.6	5.8	JRJ	095421	V Leo	104814	W Leo	120012	SU Vir	type Mira	168.4	9.7	CMG					
112.4	6.0	CMG	type Mira		type Mira		type Mira			169.4	9.9	JRJ					
114.7	5.6	BMU							095.5	12.5	FJH	170.3	9.5	FJH			
120.4	5.8	CMG	096.6	9.3	CMG	096.6	14.7	CMG	096.6	9.5	CMG	096.5	12.7	JRJ	-----		
130.3	5.8	CMG	096.6	9.3	JRJ	107.6	14.5	CMG	105.5	10.8	FJH	096.6	12.6	CMG	123961	S Uma	
130.3	6.1	BMU	098.5	9.1	FJH	152.3	:14.9	CMG	107.6	10.4	CMG	105.3	12.9	CMG	type Mira		
131.4	5.7	JRJ	105.4	9.1	CMG	154.4	13.9	FJH	114.7	11.1	CMG	105.4	12.7	FJH			
134.5	5.7	JRJ	106.5	9.2	FJH	169.5	13.7	FJH	151.4	13.1	FJH	107.5	12.7	JRJ	088.4	8.7	CMG
140.4	6.2	BMU	111.6	9.3	JRJ	-----			152.4	13.5	CMG	112.4	13.1	CMG	091.3	8.7	BMU
150.3	6.3	CMG	112.4	9.3	CMG	110506	S Leo		169.4	14.1	CMG	114.5	12.8	FJH	096.5	9.2	JRJ
150.3	6.4	BMU	120.4	9.8	CMG	type Mira			-----			120.4	13.0	CMG	096.6	8.9	CMG
150.4	6.1	JRJ	131.4	10.5	CMG				1209-05	T Vir		130.3	13.1	CMG	105.3	9.2	CMG
153.4	6.3	BVE	134.5	10.4	JRJ	096.6	13.3	CMG	type Mira			134.5	13.1	JRJ	107.5	9.4	JRJ
155.4	6.4	CMG	150.3	11.4	CMG	098.5	13.3	FJH				151.4	12.8	FJH	110.7	9.5	FJH
158.4	6.3	JRJ	150.4	12.0	FJH	105.5	13.6	FJH	107.6	9.7	CMG	152.4	13.1	JRJ	112.4	9.4	CMG
158.4	6.5	BMU	151.4	11.9	JRJ	107.6	13.6	CMG	114.7	9.9	CMG	155.3	12.9	CMG	120.4	10.2	CMG
168.4	6.8	CMG	155.4	11.8	CMG	111.6	13.7	JRJ	152.4	9.5	CMG	158.5	12.9	JRJ	130.3	10.5	CMG
-----			157.3	12.2	FJH	113.7	13.6	CMG	152.5	9.6	FJH	168.4	12.6	CMG	134.5	10.6	JRJ
094512	X Leo		168.4	12.4	CMG	113.7	14.4	FJH	169.4	10.1	CMG	169.4	12.3	JRJ	144.5	11.1	JRJ
type UGSS			169.5	12.7	FJH	151.4	13.4	CMG	-----			170.3	12.5	FJH	150.3	11.5	CMG
			-----			151.4	13.7	FJH	1214-18	R Crv		-----			150.4	11.5	FJH
115.46	12.6	FJH	095968	CH UMa		169.4	12.0	CMG	type Mira			123307	R Vir		152.4	11.9	JRJ
130.32	12.6	BMU	type UGSS			169.5	12.3	FJH				type Mira			155.3	11.6	CMG
130.43	12.7	CMG				-----			096.7	8.8	CMG				158.5	12.0	JRJ
144.33	12.4	CMG	153.32:14.8	FJH		1107-06	U Crv		107.6	9.2	CMG	096.6	7.2	CMG	168.4	11.8	CMG
150.32	13.6	FJH	-----			type Mira			115.7	9.0	CMG	107.6	7.6	CMG	169.4	11.9	JRJ
151.32:14.5	FJH		102900	S Sex					154.6	10.8	CMG	114.7	8.2	CMG	170.3	12.2	FJH
-----			type Mira			096.7	10.0	CMG	169.6	11.2	CMG	152.4	10.7	CMG	-----		
094735	S Lmi					107.6	9.2	CMG	-----			152.5	10.0	FJH	124204	RU Vir	
type Mira			096.6	12.0	CMG	114.7	9.4	CMG	122001	SS Vir		169.4	10.1	CMG	type Mira		
			107.6	12.5	CMG	153.3	11.4	CMG	type Mira			-----					
095.5	13.9	FJH	111.6	12.6	JRJ	169.4	12.2	CMG				123366	RV Dra		096.6	12.1	CMG
096.6	13.6	CMG	131.4	12.7	CMG	-----			096.6	7.5	CMG	type Mira			107.6	12.4	CMG
096.6	13.8	JRJ	134.5	13.3	JRJ	115158	Z UMa		107.6	7.9	CMG				110.7	12.1	FJH
105.3	13.4	CMG	150.4	13.0	CMG	type SRb			114.7	8.2	CMG	096.6	13.2	CMG	114.7	12.5	CMG
105.4	13.7	FJH	152.5	13.3	JRJ				152.4	8.6	CMG	107.6	14.0	CMG	152.4	12.7	CMG
111.6	13.5	JRJ	153.3	13.4	CMG	091.3	7.7	BMU	169.4	9.2	CMG	110.7	14.0	FJH	152.5	12.9	FJH
112.4	13.3	CMG	158.4	13.4	JRJ	096.6	7.7	CMG	-----			112.7	14.1	CMG	169.4	13.0	CMG
115.5	12.8	FJH	158.4	13.5	CMG	105.3	8.0	CMG	122532	T CVn		153.3	14.2	CMG	-----		
120.4	13.1	CMG	169.3	13.0	CMG	112.4	8.0	CMG	type Mira			154.4	:14.0	FJH	124238	U CVn	
131.4	11.5	CMG	-----			120.4	8.1	CMG				-----			type Mira		
134.5	11.3	JRJ	103769	R UMa		130.3	8.0	CMG	096.6	10.9	CMG	123459	RS UMa				
150.3	9.6	CMG	type Mira			150.3	8.5	CMG	107.6	11.0	CMG	type Mira			096.6	11.2	CMG
150.3	10.0	FJH				155.3	8.3	CMG	114.7	11.1	CMG				098.5	10.9	FJH
151.4	9.2	JRJ	088.4	8.5	CMG	168.4	8.1	CMG	120.4	11.0	CMG	096.5	13.9	JRJ	107.6	11.5	CMG
155.4	8.9	CMG	091.3	8.2	BMU	-----			131.4	10.9	CMG	096.5	14.1	FJH	110.7	11.9	FJH
157.3	8.6	FJH	096.6	8.0	JRJ	115919	R Com		150.4	10.9	CMG	096.7	13.8	CMG	114.7	11.6	CMG
158.4	8.8	JRJ	096.6	8.1	CMG	type Mira			155.4	10.9	CMG	105.3	13.5	CMG	120.4	11.6	CMG
169.3	8.4	CMG	105.3	8.4	CMG				168.4	11.2	CMG	105.5	13.9	FJH	131.4	12.1	CMG
-----			110.2	8.3	JRJ	096.6	9.9	CMG	-----			107.5	13.7	JRJ	150.4	12.5	CMG
094836	U Lmi		111.5	8.4	FJH	098.5	10.4	FJH	1228-03	Y Vir		120.4	13.4	CMG	151.4	13.0	FJH
type SRa			112.4	8.4	CMG	105.5	10.6	FJH	type Mira			130.3	12.0	CMG	169.4	13.2	CMG
			130.3	8.4	CMG	107.6	10.7	CMG				134.5	11.4	JRJ	169.4	13.2	FJH
096.6	12.5	CMG	134.5	8.7	JRJ	114.7	10.7	CMG	107.6	11.3	CMG	144.5	10.5	JRJ	-----		
105.3	12.4	CMG	144.5	8.3	JRJ	150.4	11.8	CMG	113.7	11.0	FJH	150.3	10.3	CMG	124606	U Vir	
131.4	12.4	CMG	152.4	8.5	JRJ	151.4	12.0	FJH	114.7	10.6	CMG	150.4	10.1	FJH	type Mira		
150.3	12.2	CMG	153.3	8.7	CMG	155.4	12.0	CMG	152.4	9.3	CMG	152.4	9.7	JRJ			
155.4	12.2	CMG	168.4	9.5	CMG	169.4	12.6	CMG	169.4	9.9	CMG	153.4	10.1	BVE	096.6	9.6	CMG
169.3	11.7	CMG	169.3	9.4	JRJ	169.4	12.9	FJH	-----			155.3	10.0	CMG	107.6	8.9	CMG
-----			-----			-----			123160	T UMa		158.5	9.4	JRJ	110.7	9.1	FJH

152.4 8.5 CMG	120.4 8.5 CMG	-----	-----	-----	151.4 11.9 FJH
152.5 8.8 FJH	131.4 8.5 CMG	142205 RS Vir	144339 RR Boo	153378A S UMi	152.4 11.7 CMG
169.4 9.2 CMG	150.4 8.4 CMG	type Mira	type Mira	type Mira	153.5 11.8 JRJ
-----	155.4 8.4 CMG	-----	-----	-----	169.4 11.5 CMG
1322-02 V Vir	168.4 8.6 CMG	096.6 10.0 CMG	096.6 10.1 CMG	096.6 9.5 CMG	169.5 11.1 FJH
type Mira	-----	107.6 10.4 CMG	107.6 10.7 CMG	098.5 9.5 JRJ	169.5 11.6 JRJ
-----	1353-04 SY Vir	110.7 10.4 FJH	110.7 10.9 FJH	105.3 9.5 CMG	-----
107.6 10.6 CMG	type Mira	114.7 10.7 CMG	114.7 10.8 CMG	112.3 9.1 CMG	154615 R Ser
114.7 9.8 CMG	-----	152.5 11.6 CMG	152.4 13.5 CMG	120.4 9.2 CMG	type Mira
154.5 9.6 CMG	110.7 14.0 CMG	152.5 11.7 FJH	152.5 13.4 FJH	130.4 8.8 CMG	-----
169.6 9.9 CMG	-----	169.4 12.5 CMG	169.4 13.5 CMG	134.5 8.7 JRJ	096.7 9.7 CMG
-----	140113 Z Boo	-----	-----	146.5 8.6 JRJ	107.6 8.0 CMG
132262 RR UMa	type Mira	142539 V Boo	1506-05 Y Lib	150.4 8.4 CMG	114.7 7.6 CMG
type Mira	-----	type Sra	type Mira	152.4 8.3 JRJ	134.6 6.6 JRJ
-----	096.6 10.1 CMG	-----	-----	154.4 8.4 CMG	152.5 6.9 FJH
096.7 9.4 CMG	107.6 10.8 CMG	096.6 9.1 JRJ	115.7 9.5 CMG	168.3 8.3 CMG	154.6 6.6 CMG
107.6 9.6 CMG	107.7 10.8 FJH	096.6 9.3 CMG	-----	173.4 8.6 JRJ	169.4 7.2 CMG
151.4 11.6 CMG	111.6 10.8 JRJ	107.6 9.3 CMG	151083 Z UMi	-----	-----
169.3 12.9 CMG	114.7 11.0 CMG	111.6 8.6 JRJ	type RCB?	154428A R CrB	154639 V CrB
-----	134.5 12.1 JRJ	114.7 9.1 CMG	-----	type RCB	type Mira
1327-06 S Vir	146.5 13.0 JRJ	134.5 8.6 JRJ	091.2 14.4 CMG	-----	-----
type Mira	151.4 12.9 FJH	146.5 8.8 JRJ	091.27 14.2 BMU	096.6 13.6 JRJ	096.6 11.3 JRJ
-----	152.4 13.1 CMG	151.4 9.1 CMG	096.5 :14.8 FJH	096.6 13.7 CMG	096.6 11.5 CMG
107.6 12.0 CMG	169.4 13.5 FJH	152.4 8.7 JRJ	107.4 14.9 CMG	107.57 13.7 CMG	107.7 11.2 FJH
114.7 12.1 CMG	169.5 13.6 JRJ	158.4 8.9 CMG	108.5 <14.6 FJH	107.7 13.5 FJH	111.6 11.0 JRJ
154.5 13.2 CMG	173.6 13.6 CMG	168.4 9.0 CMG	-----	110.67 13.7 CMG	114.7 10.9 CMG
169.6 13.3 CMG	-----	169.5 8.5 JRJ	151336 RT Boo	110.7 13.5 FJH	134.6 10.6 JRJ
-----	141567 U UMi	-----	type Mira	111.6 13.4 JRJ	152.4 10.0 CMG
133273 T UMi	type Mira	142584 R Cam	-----	112.68 13.7 CMG	153.5 10.2 JRJ
type Mira	-----	type Mira	096.6 13.1 CMG	113.69 13.7 CMG	169.4 9.0 CMG
-----	096.6 11.5 CMG	-----	107.6 13.4 CMG	113.7 13.6 FJH	169.5 8.6 JRJ
096.6 13.9 CMG	098.5 11.6 JRJ	091.2 12.3 CMG	114.7 12.9 CMG	113.70 13.5 BMU	-----
098.5 13.7 JRJ	106.4 11.5 CMG	091.3 12.2 BMU	152.4 12.5 CMG	114.66 13.8 CMG	155229 Z CrB
105.5 13.0 FJH	112.7 11.6 CMG	095.5 11.8 FJH	156.5 12.2 FJH	134.5 13.4 JRJ	type Mira
106.4 13.6 CMG	120.4 11.5 CMG	097.3 12.0 CMG	169.4 12.0 CMG	144.5 13.4 JRJ	-----
112.7 13.7 CMG	134.5 11.6 JRJ	105.3 11.4 CMG	-----	144.68 13.2 BMU	096.6 12.2 CMG
134.5 12.5 JRJ	146.5 11.1 JRJ	108.5 10.7 FJH	151714 S Ser	151.4 13.4 FJH	096.6 12.9 JRJ
146.5 11.9 JRJ	150.4 11.2 CMG	112.3 10.4 CMG	type Mira	152.45 13.4 CMG	107.6 13.3 CMG
150.4 11.8 CMG	152.4 11.3 JRJ	119.3 9.7 CMG	-----	152.5 13.3 JRJ	107.7 13.0 FJH
150.4 11.9 FJH	154.4 11.0 CMG	130.4 9.3 CMG	096.7 13.7 CMG	152.5 13.6 FJH	111.6 13.5 JRJ
152.4 11.7 JRJ	168.3 10.8 CMG	150.3 8.2 CMG	107.6 13.3 CMG	153.4 13.2 JRJ	114.7 13.4 CMG
154.4 11.7 CMG	173.4 10.7 JRJ	150.4 8.8 FJH	114.7 13.1 CMG	154.4 13.4 FJH	154.4 :14.7 FJH
168.3 11.3 CMG	-----	155.3 8.2 CMG	154.6 12.0 CMG	154.53 13.4 CMG	-----
173.4 11.4 JRJ	141954 S Boo	168.4 8.4 CMG	169.4 11.5 CMG	156.5 13.3 FJH	155526 T CrB
-----	type Mira	-----	-----	157.62 13.4 CMG	type Nd
134434 RT CVn	-----	143227 R Boo	151731 S CrB	169.4 13.0 FJH	-----
type Mira	096.7 10.8 CMG	type Mira	type Mira	169.40 13.3 CMG	096.6 10.0 JRJ
-----	107.6 10.7 CMG	-----	-----	169.5 12.8 JRJ	096.6 10.3 CMG
110.7 13.8 FJH	111.6 10.6 JRJ	096.6 8.8 JRJ	096.6 8.6 JRJ	173.39 13.2 CMG	107.6 10.5 CMG
151.4 10.9 CMG	112.7 10.5 CMG	096.6 8.9 CMG	096.6 9.1 CMG	173.4 12.9 JRJ	107.7 10.4 FJH
152.5 11.0 FJH	113.7 10.5 FJH	107.6 8.5 CMG	107.6 9.3 CMG	-----	111.6 10.0 JRJ
158.4 11.1 CMG	114.7 10.4 CMG	110.7 8.2 FJH	111.6 9.6 JRJ	154536 X CrB	114.7 10.1 CMG
169.4 10.8 CMG	134.5 10.3 JRJ	111.6 8.3 JRJ	114.7 9.3 CMG	type Mira	134.6 10.4 JRJ
-----	146.5 8.9 JRJ	114.7 8.2 CMG	134.6 10.1 JRJ	-----	151.4 10.5 FJH
134440 R CVn	150.4 9.0 CMG	134.5 8.4 JRJ	151.4 10.4 FJH	096.6 13.9 CMG	152.5 10.3 CMG
type Mira	152.4 8.7 JRJ	146.5 8.7 JRJ	152.4 10.3 CMG	107.6 13.5 CMG	153.4 10.8 JRJ
-----	154.4 9.3 FJH	151.4 9.0 CMG	153.4 10.5 JRJ	107.7 13.4 FJH	169.4 10.3 CMG
096.6 9.0 CMG	158.4 8.9 CMG	152.4 8.9 JRJ	169.4 10.5 CMG	111.6 13.6 JRJ	169.5 10.4 JRJ
107.6 8.7 CMG	168.4 9.0 CMG	169.4 10.2 CMG	169.5 10.7 JRJ	114.7 13.5 CMG	174.4 10.4 BMU
114.7 8.9 CMG	169.5 9.5 JRJ	169.5 10.2 JRJ	169.5 11.2 FJH	134.6 13.0 JRJ	-----

-----	169.4	9.8	CMG	type Mira		169.6	11.5	CMG	110.7	9.6	FJH							
160118 R Her	169.5	9.4	FJH		096.6	9.8	CMG	-----	114.7	9.6	CMG							
type Mira	169.5	9.9	JRJ	110.7	8.5	CMG	107.6	10.0	CMG	174422 SU Her	154.6	10.7	CMG					
	-----			110.7	8.9	FJH	112.7	10.7	CMG	type Mira	169.6	13.2	CMG					
096.7	11.9	CMG	162119 U Her	114.7	8.4	CMG	153.4	11.5	CMG		169.6	13.3	JRJ					
107.6	10.0	CMG	type Mira	154.6	10.0	CMG	169.4	12.3	CMG	111.7	13.9	CMG	-----					
107.7	9.7	FJH		169.6	10.8	CMG	-----			-----			180565 W Dra					
114.7	9.7	CMG	096.7	12.7	CMG	-----	170217 VY Her	175111 RT Oph					type Mira					
152.5	10.6	FJH	107.6	12.6	CMG	164012 UV Her	type Mira	type Mira										
154.6	10.3	CMG	107.7	12.9	FJH	type Mira												
169.6	11.2	CMG	114.7	12.9	CMG		110.7	14.3	FJH	169.6	:14.8	CMG						
169.6	11.3	JRJ	152.5	12.3	FJH	107.7	12.9	FJH	-----	-----								
-----			154.6	13.0	CMG	154.6	10.9	CMG	170627A RT Her	175423 FU Her								
160167 AG Dra	169.6	11.9	CMG	169.6	9.6	CMG	169.6	9.6	CMG	type Mira	type Mira							
type Z And	169.6	12.2	JRJ	-----			-----											
	-----			164025 AH Her	110.7	12.2	CMG	157.7	12.9	CMG								
096.7	9.5	CMG	162623 DO Her	type UGZ	110.7	12.3	FJH	169.6	13.6	CMG								
112.7	9.8	CMG	type Mira		114.7	11.0	CMG	-----										
-----					111.67	11.2	CMG	175458A T Dra										
160210 U Ser	173.6	10.7	CMG	169.62	14.6	CMG	169.6	10.2	CMG	type Mira								
type Mira	-----			-----			169.6	10.5	JRJ	-----								
			162807A SS Her	164715 S Her			-----			096.6	12.7	CMG	180666 X Dra					
096.7	10.3	CMG	type Mira	type Mira	171401 Z Oph		type Mira			107.3	12.4	JRJ	type Mira					
107.6	9.8	CMG			type Mira			107.6	12.9	CMG								
110.7	9.4	FJH	110.7	11.0	CMG	107.7	12.8	FJH	112.7	12.9	CMG	088.3	10.7	CMG				
114.7	9.5	CMG	114.7	10.7	CMG	110.7	13.4	CMG	134.6	13.0	JRJ	096.6	11.0	CMG				
154.6	8.5	CMG	169.6	10.5	CMG	114.7	13.1	CMG	114.7	11.9	CMG	098.4	11.0	JRJ				
169.6	9.6	CMG	-----			154.6	12.0	CMG	169.6	13.5	CMG	152.5	12.5	CMG				
-----			163137 W Her	169.6	11.2	CMG	-----					153.5	12.9	JRJ				
160625 RU Her			type Mira	-----			171707 UZ Oph	169.4	12.0	CMG				108.3	11.4	JRJ		
type Mira				1652-02 SS Oph			type RV	169.5	12.6	JRJ				110.7	11.8	FJH		
			096.7	8.9	CMG	type Mira		-----						112.7	11.7	CMG		
096.7	13.7	CMG	107.6	8.8	CMG			175519 RY Her						134.6	12.9	JRJ		
110.7	13.6	CMG	107.7	9.2	FJH	110.7	8.8	CMG	type Mira					153.3	13.9	CMG		
110.7	13.7	FJH	111.6	9.3	JRJ	169.6	11.8	CMG						153.5	14.2	JRJ		
114.7	13.6	CMG	114.7	9.3	CMG	-----		169.6	10.6	CMG	110.7	8.9	CMG	169.4	13.8	CMG		
152.5	13.0	FJH	151.4	11.9	FJH	165631 RV Her		-----			110.7	8.9	FJH	169.4	14.1	JRJ		
154.6	12.5	CMG	169.4	12.3	CMG	type Mira		171723 RS Her			114.7	8.9	CMG	-----				
169.4	12.4	CMG	169.4	12.8	FJH			type Mira			154.6	11.1	CMG	181020 YY Her				
169.5	12.4	FJH	169.6	12.7	JRJ	096.7	10.3	CMG	096.7	12.8	CMG	169.6	12.2	JRJ	type Z And			
169.6	12.5	JRJ	-----			107.6	10.2	CMG	107.7	12.8	FJH	-----						
-----			163266 R Dra	107.7	10.8	FJH	110.7	12.7	CMG	110.7	12.7	CMG	175654 V Dra					
160710 DN Her			type Mira	111.6	11.2	JRJ	114.7	12.6	CMG	114.7	12.6	CMG	type Mira					
type Mira				114.7	10.5	CMG	154.6	9.7	CMG	154.6	9.7	CMG	-----					
			088.3	12.8	CMG	154.4	13.8	FJH	169.6	9.1	CMG	088.3	11.8	CMG	181031 TV Her			
173.6	11.3	CMG	096.6	12.8	CMG	169.5	14.3	FJH	169.6	9.3	JRJ	096.6	12.3	CMG	type Mira			
-----			098.4	12.2	JRJ	169.6	14.3	JRJ	-----			107.3	12.9	JRJ				
161138 W CrB	107.6	11.9	CMG	-----				172618 UZ Her										
type Mira	108.3	12.0	JRJ	165722 SY Her				type Mira										
	110.7	12.2	FJH	type Mira														
096.6	13.0	JRJ	112.7	11.9	CMG				110.7	9.1	CMG	107.6	13.0	CMG	096.7	10.6	CMG	
096.6	13.3	CMG	120.4	11.5	CMG	110.7	12.5	FJH	114.7	9.1	CMG	110.7	12.9	FJH	110.7	10.2	FJH	
107.6	12.3	CMG	134.6	10.6	JRJ	110.7	12.6	CMG	157.7	11.5	CMG	112.7	13.2	CMG	110.7	10.5	CMG	
107.7	12.8	FJH	150.4	9.4	CMG	114.7	12.2	CMG	169.6	12.1	CMG	134.6	13.8	JRJ	114.7	10.5	CMG	
111.6	12.1	JRJ	152.5	9.2	JRJ	154.6	9.7	CMG	-----			153.4	14.4	CMG	154.6	11.2	CMG	
114.7	12.1	CMG	155.4	9.1	CMG	169.6	9.7	JRJ	172809A RU Oph	180531 T Her			154.5	14.1	CMG	169.6	11.2	JRJ
134.6	10.7	JRJ	168.4	8.1	CMG	169.6	9.8	CMG	type Mira	type Mira			169.4	14.3	CMG	169.6	11.5	CMG
151.4	9.8	FJH	169.4	7.8	JRJ	-----			-----				-----					
152.4	10.0	CMG	-----			165752 WZ Dra			110.7	9.7	CMG	096.7	8.6	CMG	114.7	11.3	CMG	
153.4	10.0	JRJ	163414 AS Her	type Mira					157.6	10.6	CMG	110.7	9.2	CMG	157.7	9.0	CMG	

169.6 9.2 CMG		157.6 11.7 CMG	type Mira	111.7 10.3 CMG	105.2 12.0 CMG
-----	096.6 13.1 CMG	169.6 11.9 CMG		157.6 10.9 CMG	107.3 12.1 JRJ
181136 W Lyr	107.3 12.5 JRJ	169.7 11.5 JRJ	113.7 14.4 FJH	169.6 11.0 CMG	111.7 12.3 CMG
type Mira	107.6 12.9 CMG	-----	-----	-----	169.6 14.6 CMG
	112.7 12.5 CMG	185737 RT Lyr	190967 U Dra	193449 R Cyg	-----
088.2 10.7 CMG	113.7 12.4 FJH	type Mira	type Mira	type Mira	194604 X Aql
096.7 11.3 CMG	152.5 10.1 CMG				type Mira
107.7 11.9 FJH	153.5 9.8 JRJ	113.7 13.5 FJH	088.3 11.3 CMG	091.2 11.7 CMG	
110.7 11.8 CMG	169.4 10.5 CMG	157.6 11.5 CMG	096.7 11.1 CMG	091.3 11.8 BMU	173.6 12.2 CMG
115.7 11.9 CMG	-----	169.6 11.0 CMG	098.4 11.0 JRJ	097.2 11.3 CMG	-----
157.6 9.5 CMG	183225 RZ Her	169.6 11.7 JRJ	106.2 10.3 CMG	098.3 11.5 JRJ	194632 Chi Cyg
169.6 9.1 JRJ	type Mira	-----	108.2 10.1 JRJ	105.2 10.7 CMG	type Mira
169.6 9.5 CMG		185947 WZ Lyr	112.7 10.6 CMG	107.3 11.1 JRJ	
-----	110.7 9.5 FJH	type Mira	120.4 10.1 CMG	111.7 10.0 CMG	088.2 13.1 CMG
181730 TV Lyr	110.7 9.7 CMG		134.6 9.8 JRJ	154.6 8.9 CMG	110.7 13.4 CMG
type Mira	114.7 9.9 CMG	113.7 14.5 FJH	150.4 10.0 CMG	169.6 9.4 CMG	169.6 12.8 CMG
	157.7 11.6 CMG	169.6 13.5 CMG	151.4 10.0 FJH	-----	-----
111.7 13.8 CMG	169.6 12.2 CMG	-----	152.5 10.3 JRJ	193509 RV Aql	195055 CU Cyg
113.7 13.5 FJH	169.6 12.2 JRJ	190108 R Aql	155.4 10.2 CMG	type Mira	type Mira
169.6 11.6 CMG	-----	type Mira	169.3 10.7 CMG		
-----	183308 X Oph		169.4 10.7 JRJ	173.6 14.2 CMG	111.7 12.5 CMG
181828 AZ Her	type Mira	173.6 6.7 CMG	-----	-----	169.6 11.1 CMG
type Mira		-----	191046 SS Lyr	193954 V369 Cyg	-----
	169.6 8.5 CMG	190527 TY Lyr	type Mira	type Mira	195533 V482 Cyg
111.7 14.5 CMG	-----	type Mira			type RCB
-----	183922 AE Her		089.2 11.3 CMG	088.2 11.7 CMG	
182039 TW Lyr	type Mira	107.7 12.2 FJH	113.7 11.6 FJH	097.2 12.7 CMG	088.2 11.3 CMG
type Mira		115.7 12.0 CMG	157.6 12.3 CMG	105.2 13.2 CMG	111.70 11.2 CMG
	110.7 9.5 FJH	-----	169.6 13.2 CMG	111.7 13.6 CMG	169.64 11.2 CMG
107.7 14.7 FJH	111.7 9.4 CMG	190529A V Lyr	-----	157.6 10.5 CMG	-----
169.6 13.0 CMG	157.7 11.6 CMG	type Mira	191637 U Lyr	169.6 10.5 CMG	195551 CH Cyg
-----	169.6 11.9 CMG		type Mira	-----	type Mira
182172 RT Dra	173.6 11.9 CMG	088.2 10.8 CMG		194048 RT Cyg	
type Mira	-----	107.7 11.1 FJH	089.2 11.9 CMG	type Mira	111.7 14.2 CMG
	184134 RY Lyr	110.7 11.9 CMG	110.7 11.3 CMG		157.6 11.7 CMG
096.6 13.3 CMG	type Mira	115.7 11.8 CMG	113.7 11.5 FJH	086.3 7.2 BMU	169.6 11.9 CMG
106.2 13.3 CMG		-----	115.7 11.3 CMG	086.3 7.7 FJH	-----
110.7 13.3 FJH	113.7 13.6 FJH	190529B VZ Lyr	157.6 10.9 CMG	088.2 7.2 CMG	195849 Z Cyg
112.7 13.0 CMG	157.6 12.2 CMG	type Mira	169.6 11.4 CMG	097.2 7.6 CMG	type Mira
150.4 11.9 CMG	169.6 11.8 CMG		169.7 11.2 JRJ	098.3 7.6 BMU	
151.4 12.1 FJH	169.7 11.9 JRJ	115.7 11.1 CMG	-----	098.3 8.0 JRJ	091.2 13.7 CMG
169.3 11.5 CMG	-----	-----	192150 CH Cyg	105.2 7.6 CMG	098.3 13.6 JRJ
169.4 11.5 FJH	185032 RX Lyr	190627A UV Lyr	type Z And	107.3 8.0 JRJ	107.3 12.9 JRJ
-----	type Mira	type Mira		111.7 8.1 CMG	111.7 12.6 CMG
182224 SV Her			086.3 8.9 BMU	157.6 10.2 CMG	157.6 9.1 CMG
type Mira	115.7 13.1 CMG	115.7 10.5 CMG	088.2 8.8 CMG	169.6 11.0 CMG	169.6 9.2 CMG
	169.7 <14.5 JRJ	169.6 13.6 CMG	097.2 8.7 CMG	-----	-----
110.7 11.0 FJH	-----	-----	098.3 8.7 BMU	194067 ZZ Dra	200212 SY Aql
114.7 10.8 CMG	185131 SX Lyr	190643 ST Lyr	106.2 8.7 CMG	type Mira	type Mira
154.6 11.2 CMG	type Mira	type Mira	-----		
169.6 11.5 JRJ			193311 RT Aql	153.4 11.3 CMG	173.6 11.2 CMG
169.6 11.8 CMG	113.7 14.0 FJH	157.6 10.0 CMG	type Mira	169.4 12.0 CMG	-----
-----	-----	169.6 10.6 CMG		-----	200250 BU Cyg
183138 LL Lyr	185634 Z Lyr	-----	173.6 8.3 CMG	194348 TU Cyg	type Mira
type UG	type Mira	190933A RS Lyr	-----	type Mira	
		type Mira	193428 BG Cyg		111.7 13.1 CMG
113.69 13.7 FJH	110.7 11.3 CMG		type Mira	088.2 11.4 CMG	169.6 10.2 CMG
-----	113.7 11.2 FJH	169.6 12.1 CMG		091.3 11.5 BMU	
183149A SV Dra	115.7 11.0 CMG	-----	088.2 10.2 CMG	097.2 11.7 CMG	
type Mira	115.7 11.0 CMG	190941 RU Lyr	097.2 10.3 CMG	098.3 11.9 JRJ	



-----	type Mira	232144 AL And	130.3 12.0 CMG	-----
222924 SS Peg		type Mira	134.3 11.9 JRJ	235855A Y Cas
type Mira	088.3 8.9 CMG		144.4 12.2 JRJ	type Mira
	097.3 9.0 CMG	088.2 11.1 FJH	150.3 12.7 CMG	
091.2 13.6 FJH	097.3 9.5 JRJ	098.3 11.4 FJH	151.3 12.8 JRJ	107.4 14.9 CMG
112.3 13.6 FJH	097.3 9.6 FJH	108.3 12.3 FJH	154.4 12.9 CMG	108.3 14.4 JRJ
-----	105.3 9.8 CMG	115.2 12.5 FJH	169.4 13.6 JRJ	108.3 14.9 FJH
223841 R Lac	112.3 10.2 CMG	-----	173.6 13.6 CMG	134.3 14.2 JRJ
type Mira	115.3 10.6 FJH	232642 BG And	-----	154.4 14.3 CMG
	119.3 10.7 CMG	type Mira	235255 WY Cas	169.4 13.7 JRJ
091.2 13.4 CMG	130.3 11.0 CMG		type Mira	173.6 13.5 CMG
091.2 13.4 FJH	134.3 10.8 JRJ	098.3 13.6 FJH	-----	
096.3 13.5 JRJ	150.3 11.5 CMG	-----	088.3 9.2 CMG	235939 SV And
105.2 13.8 CMG	151.3 12.2 JRJ	232848 Z And	097.3 9.2 CMG	type Mira
105.3 13.7 FJH	154.4 11.7 CMG	type Z And	097.3 9.2 FJH	
107.3 13.9 JRJ	169.4 12.6 JRJ		105.3 9.3 CMG	086.3 9.1 BMU
-----	173.6 12.1 CMG	088.4 10.6 CMG	106.3 9.3 FJH	086.3 9.2 FJH
224517 SX Peg	-----	096.4 10.8 JRJ	112.4 9.5 CMG	088.3 8.7 CMG
type Mira	231425 W Peg	105.3 10.5 CMG	115.3 9.5 FJH	096.3 8.8 JRJ
	type Mira	107.3 10.9 JRJ	119.3 9.7 CMG	097.3 8.6 CMG
105.2 9.5 CMG		108.3 10.7 FJH	130.3 10.1 CMG	104.3 8.6 CMG
113.3 9.1 CMG	088.3 9.0 CMG	113.3 10.6 CMG	149.3 11.3 CMG	104.3 8.9 FJH
-----	096.3 9.8 JRJ	130.3 10.6 CMG	154.4 11.4 CMG	107.3 8.6 JRJ
225542 SZ And	097.2 9.7 CMG	-----	173.6 11.9 CMG	112.3 8.7 CMG
type Mira	104.3 9.8 FJH	233656 N93 Cas	-----	113.2 9.2 FJH
	105.2 9.8 CMG	type N	235350 R Cas	120.2 8.8 CMG
088.2 11.8 FJH	107.3 10.1 JRJ		type Mira	130.3 9.3 CMG
088.3 11.2 CMG	112.3 10.5 FJH	088.33 12.8 FJH		130.3 9.3 JRJ
097.3 11.5 CMG	113.2 10.1 CMG	091.28 12.6 BMU	087.3 7.1 BMU	146.3 9.6 JRJ
098.3 11.8 FJH	130.3 10.5 CMG	098.27 12.9 FJH	088.3 7.0 CMG	150.3 10.0 CMG
105.3 11.8 CMG	135.3 10.6 JRJ	105.27 12.8 FJH	097.3 6.9 JRJ	152.3 9.8 JRJ
108.3 12.2 FJH	-----	106.24 12.5 CMG	097.3 7.3 CMG	
113.2 12.4 CMG	231508 S Peg	115.27 12.9 FJH	098.3 7.2 BMU	
115.2 12.6 FJH	type Mira	120.26 12.9 FJH	104.3 7.0 CMG	
-----		150.29 12.9 CMG	108.3 7.2 JRJ	
225914 RW Peg	088.3 8.7 CMG	151.35 13.2 BMU	112.4 7.3 CMG	
type Mira	097.2 8.6 CMG	152.32 13.1 BMU	119.3 7.4 CMG	
	097.3 8.6 JRJ	153.33 12.9 CMG	130.3 7.8 CMG	
088.2 10.1 FJH	106.2 8.5 CMG	-----	134.3 7.6 JRJ	
088.3 9.7 CMG	113.2 8.5 CMG	233956 Z Cas	144.4 7.9 JRJ	
097.2 10.3 CMG	-----	type Mira	150.3 7.8 CMG	
097.3 9.7 JRJ	231539 RY And		151.3 7.7 JRJ	
105.2 10.3 FJH	type Mira	108.3 14.3 JRJ	172.3 8.6 JRJ	
105.2 10.4 CMG		108.3 14.8 FJH	173.6 8.3 CMG	
112.2 10.7 FJH	091.3 14.6 CMG	173.6 :14.9 CMG	-----	
113.2 10.3 CMG	-----	-----	235525 Z Peg	
-----	231839 BU And	235053 RR Cas	type Mira	
230110 R Peg	type Mira	type Mira		
type Mira			086.3 8.9 BMU	
	088.2 12.7 FJH	088.3 11.1 CMG	086.3 8.9 FJH	
088.3 11.2 CMG	098.3 12.7 FJH	088.3 11.5 FJH	088.3 9.2 CMG	
091.3 11.5 FJH	112.3 12.6 FJH	097.3 11.4 CMG	096.3 9.6 JRJ	
097.2 11.4 CMG	-----	097.3 11.5 FJH	097.2 9.6 CMG	
097.3 11.5 JRJ	231878 RY Cep	097.3 11.6 JRJ	104.3 9.7 FJH	
105.2 11.7 CMG	type Mira	105.3 11.4 CMG	104.3 9.9 CMG	
105.2 11.7 FJH		106.3 11.6 FJH	107.3 10.0 JRJ	
112.2 12.0 FJH	106.3 10.5 FJH	108.3 11.6 JRJ	112.3 10.0 FJH	
113.2 12.1 CMG	115.3 10.9 FJH	112.4 11.4 CMG	113.2 10.3 CMG	
-----	153.3 11.5 FJH	115.3 11.8 FJH	119.3 10.6 CMG	
230759 V Cas	-----	119.3 11.6 CMG	135.3 11.4 JRJ	