

\*\*\* LPV predictions for 2021 \*\*\* Made by Matyas Csukas using data from GCVS 5.1

Updated values for Period and Epocha from Tamas Zalezsak, except stars with \*

Star	Max-min (X)	Period	Epocha	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star		
AX And	9.3-16.2 (V)	381	2456920	50	22M	+++	+++		---	---	---	01m	---	--		+	+++	+++	07M	AX And	
BG And	8.5-15.6 (V)	287	2456910	50	22M	+++	++		-	---	14m	---		+++	+++	05M	+++	+	---	BG And	
BU And	9.4-14.2 (V)	390	2456662	50	13m	---			+	+++	+++	26M	+++	+++	++			-	---	07m	BU And
R And	5.8-15.2 (V)	411	2456685	38	+++	+++	+++	++		-	---	---	10m	--		++	+++	+++	13M	+++	R And
RR And	8.4-15.6 (V)	327	2456838	52	+		--	---	10m	---	-		++	+++	27M	+++	+++	+	---	31m	RR And
RV And	9.0-11.5 (V)	162.3	2456882	50	+++	21m	+++	+++	12M	+++	+++	02m	+++	21M	+++	+++	+++	11m	+++	RV And	
RW And	7.9-15.7 (V)	434	2456808	36	---	---	10m	---		+++	+++	16M	+++	+++	+++	++			--	RW And	
RY And	10.0-15.3 (V)	391	2456919	50	++	+++	19M	+++	++		--	---	---	02m	---	--			++	RY And	
SV And	7.7-14.7 (V)	316	2456686	42	30M	+++	+++	+++		--	---	01m		+++	+++	11M	+++	+++		SV And	
SX And	8.7-<14.0 (V)	332	2456867	50	07M	+++	++		-	---	22m	---	-		+	+++	+++	04M	+++	++	SX And
SZ And	9.5-<17.0 (V)	342	2456579	42	---	---		+	+++	10M	+++	+		--	---	---	25m	---	---	-	SZ And
T And	7.7-14.5 (V)	281	2456692	46	+++	06M	+++	++		-	---	07m	-	+++	+++	14M	+++	+++		T And	
TU And	7.5-13.5 (V)	313	2456818	48			++	+++	+++	17M	+++	+++	++		27m			+	+++	+++	TU And
U And	9.0-15.0 (V)	345	2456818	40	+++	18M	+++	+++	++		---	---	13m	---		+++	29M	+++		U And	
UW And	9.4-<15.0 (V)	238	2456645	50		+++	17M	+++		-	---	16m	---		+++	13M	+++		-	---	UW And
UZ And	9.1-15.6 (V)	317	2456535	41	---	---	12m	---		+	+++	22M	+++	+++	+		--	---	26m	---	UZ And
V And	9.0-15.2 (V)	259	2456707	45	---		+++	23M	+++	++		-	---	12m	--		++	+++	07M	+++	V And
W And	6.7-14.6 (V)	397	2456613	42	---	10m	--		+	+++	+++	26M	+++	+++	+++	+++			-	---	W And
X And	8.5-15.2 (V)	345	2456554	37	02m	-	+++	+++	09M	+++	+++	++		---	---	12m	--		+	X And	
Y And	8.2-15.1 (V)	221	2456819	47	++	+++	04M	+++		-	---	01m		+	+++	13M	+++	+	---	08m	Y And

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star		
YZ And	9.7-15.9 (V)	206.7	2456781	50	-	+++	15M	++	--	30m	---	-	+++	10M	++	--	23m	---	YZ And		
V421 And	10.1-<12. (V)	388	2456700	50		07m			++	+++	+++	20M	+++	+++	++			30m	V421 And		
R Aql	5.3-12.0 (V)	270	2456710	43	+++	+++	++	20m	+++	+++	+++	14M	+++	+++	+++	++	15m	+++	R Aql		
AK Aql	10.0-<14.0 (V)	298	2456641	50	---	-		+	+++	18M	+++	+	-	---	14m	---	-		+	+++	
BT Aql	9.9-14.4 (V)	292	2456789	39	+			---	29m	---		+++	21M	+++	+++		-	---	15m	BT Aql	
GY Aql	8.0-15.: (V)	495	2456745	50	+++	05M	+++	+++	+++			-	---	---	09m	---	--		++	GY Aql	
RR Aql	8.2-15.0 (V)	395	2456828	30	14M	+++	+++	+++	++			-	---	---	17m	--	++	+++	13M	RR Aql	
RS Aql	9.2-15.4 (V)	429	2456500	48	-	---	---	23m	---	---			+	+++	+++	15M	+++	+++	++	RS Aql	
RT Aql	7.5-14.5 (V)	329	2456717	41	30m	---		+++	+++	14M	+++	+++	++		--	24m	---	+		RT Aql	
RU Aql	8.4-14.8 (V)	275	2456752	44	+++	12M	+++	++		---	15m	--	++	+++	14M	+++	+++			RU Aql	
RV Aql	8.1-15.7 (V)	216.5	2456805	47	03M	++	--	27m	---		+	+++	07M	+++	-	30m	---	+	+++	RV Aql	
SV Aql	10.1-15.3 (V)	252	2456805	50	15m	---		+++	20M	+++		---	24m	---	-	++	28M	+++		SV Aql	
SY Aql	8.3-15.4 (V)	357	2456543	37	---	---	21m	---		+++	+++	03M	+++	+++	+		---	---		SY Aql	
TU Aql	8.2-15.5 (V)	269	2456732	50	+++		---	14m	--		+	+++	26M	+++	+++	-	---	08m	--		TU Aql
TV Aql	9.0-15.0 (V)	243	2456669	50	---	05m	-	++	+++	07M	+++	-	---	05m	-	++	+++	05M		TV Aql	
VX Aql	9.9-13.6 (V)	647	2456305	50	---	01m						+	+++	+++	+++	+++	21M	+++	+++	VX Aql	
W Aql	7.0-14.6 (V)	490	2456578	36	+		--	---	---	07m	--		+	+++	+++	30M	+++	+++	+++	W Aql	
WZ Aql	9.3-14.2 (V)	311	2456860	45	24m	--		+++	+++	13M	+++	+++		-	31m	---		++		WZ Aql	
X Aql	8.1-15.6 (V)	348	2456672	46	+		--	---	22m	---	-		++	+++	29M	+++	+++	++		---	X Aql
Z Aql	8.8-14.5 (V)	128.2	2456813	44	09m	+++	03M	-	16m	++	11M	+	22m	+	17M	++	28m	-		Z Aql	

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star			
V374 Aql	8.81-10.9 (V)	478	2456620	64	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	30M	+++	+++	+++	+++	V374 Aql		
*V865 Aql	9.6-12.8: (V)	367.5	2454697	50	++			17m			+++	+++	+++	+++	17M	+++	+++	+++		*V865 Aql		
R Aqr	5.2-12.4 (V)	377	2456770	41	+		08m	++	+++	+++	+++	+++	13M	+++	+++	+++	+++	+++		R Aqr		
RR Aqr	9.1-14.7 (V)	183	2456703	43	02m	++	19M	+++		---	03m	++	21M	+++	+	---	03m	+		RR Aqr		
RW Aqr	8.5-14.5 (V)	139.7	2456800	38	+++	-	16m	++	10M	++	-	05m	27M	+++	+	22m	-	+	14M	RW Aqr		
S Aqr	7.6-15.0 (V)	279	2456569	39	--	---	04m	+	+++	24M	+++	+++	++		-	---	10m	-	+++	S Aqr		
T Aqr	7.0-14.2 (V)	202	2456695	47	--	11m	+	+++	16M	+++	+	--	01m	++	+++	04M	+++	+		T Aqr		
W Aqr	8.3-15.2 (V)	378	2456599	42	+++	30M	+++	+++	+++	+		-	---	---	06m	---		+++	+++	W Aqr		
X Aqr	7.2-15.0 (V)	311	2456687	42	+++	+++	++		-	---	20m	--		+	+++	28M	+++	+++	+++	X Aqr		
Y Aqr	8.1-15.5 (V)	381	2456472	43	+++	++		---	---	21m	---	-		++	+++	+++	01M	+++	+++	Y Aqr		
R Ari	7.1-14.3 (V)	187	2456815	47	++	31M	+++	++		--	10m	++	+++	06M	+++	-	13m	+	+++	R Ari		
RT Ari	10.2-<15.0 (V)	264	2456590	50	+++	15M	++		-	---	27m	---	--		+	+++	06M	++		-	---	RT Ari
T Ari	7.3-11.5 (V)	315	2456700	49	+++	05M	+++	+++	+++	+++	15m	+++	+++	+++	+++	16M	+++	+++		T Ari		
U Ari	7.2-15.8 (V)	369	2456646	41	+++	14M	+++	+++	+++		---	---	20m	---	-	+++	+++	18M		U Ari		
AA Aur	8.8-16.0 (V)	269	2456587	50	-	+++	+++	03M	++		-	---	16m	---	-	+++	27M	+++	++		AA Aur	
AQ Aur	10.3-15.5 (V)	240	2456833	50	+++	18M	++		-	---	18m	---		+++	15M	++		-	---	13m	AQ Aur	
AZ Aur	8.2-14.0 (V)	417	2456563	50		--	28m	---			+++	+++	+++	24M	+++	+++	+++	++			AZ Aur	
GO Aur	9.2-15.9 (V)	297	2456793	50	+++	+		--	---	13m	---	-		++	+++	08M	+++	+	---	---	GO Aur	
HT Aur	8.9-15.9 (V)	300	2456807	50	23M	+++	++		-	---	22m	---	--		++	+++	19M	+++	++		-	HT Aur
R Aur	6.7-14.0 (V)	466	2456807	51	+++	+++	++			-	30m	---	-		+++	+++	+++	+++	23M		R Aur	

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star
RR Aur	9.0-15.6 (V)	309	2456670	47	++	-	---	---	01m	--	+	+++	24M	+++	+++		---	---	RR Aur
RU Aur	8.0-16.0 (V)	466	2456663	42	---	---	17m	---	---		+++	+++	+++	01M	+++	+++	+++		RU Aur
SZ Aur	8.2-15.3 (V)	456	2456840	46	+++	++		---	---	31m	---	---	-		+	+++	+++	27M	+++
U Aur	7.4-15.5 (V)	404	2456595	40	---	---	15m	---		+++	+++	27M	+++	+++	+++	+++		--	U Aur
V Aur	8.5-13.0 (V)	358	2456510	54			++	+++	+++	+++	08M	+++	+++	+		20m			V Aur
VX Aur	8.0-13.1 (V)	318	2456685	50	+++	14M	+++	+++	++		22m		+	+++	+++	28M	+++	+++	VX Aur
W Aur	8.0-15.3 (V)	273	2456824	40	--		++	+++	07M	+++	++	-	---	18m	--	++	+++	05M	+++
X Aur	7.8-13.8 (V)	164	2456821	50	15m	++	+++	07M	++	28m		+++	18M	+++		08m	++	29M	X Aur
YY Aur	10.0-<14.4 (V)	338	2456623	50	---	-		+	+++	22M	+++	++		---	---	08m	---	-	YY Aur
R Boo	6.0-13.3 (V)	223.7	2456828	45	04m	+++	+++	15M	+++	+++		15m	+	+++	24M	+++	+++	+	R Boo
RR Boo	8.2-15.0 (V)	194.4	2456679	48	22M	+++	+	---	03m	++	+++	05M	++	--	14m	-	+++	15M	RR Boo
RT Boo	8.2-14.0 (V)	276	2456818	49		++	+++	28M	+++	+++	+	-	16m	-	++	+++	29M	+++	RT Boo
S Boo	7.4-14.0 (V)	267	2456635	47	-	++	+++	31M	+++	+++	++	-	20m	-	++	+++	23M	+++	S Boo
Z Boo	8.2-15.7 (V)	281	2456796	40	29m	---		+	+++	20M	+++	+++		---	---	06m	-	+++	26M
R Cam	6.97-14.4 (V)	270	2456650	46	---	11m		+++	+++	15M	+++	+++		---	08m		+++	+++	R Cam
RT Cam	9.0-14.7 (V)	364	2456567	50	+	-	---	23m	---	-		+++	+++	21M	+++	+++	+		RT Cam
S Cam	7.7-11.6 (V)	326	2456792	51	+++	19m	+++	+++	+++	+++	+++	+++	04M	+++	+++	+++	++	11m	+++
SU Cam	8.9-15.0 (V)	288	2456827	50	+	--	---	01m	-	++	+++	23M	+++	++		---	14m	---	SU Cam
T Cam	7.2-14.4 (V)	379	2456510	47	+++	+++	+++		--	29m	---		++	+++	+++	23M	+++	+++	T Cam
TX Cam	7.8-16.9 (V)	557	2456295	50	+	-	---	---	---	24m	---	---	---	--	+	+++	+++	+++	TX Cam

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star			
V Cam	7.3-16.0 (V)	521	2456405	32		-	---	---	---	29m	---	--		+	+++	+++	12M	+++	+++	V Cam		
W Cam	9.5-15.9 (V)	282	2456715	50	++	+++	07M	+++		---	28m	---	--		+	+++	16M	+++	+	W Cam		
WY Cam	9.6-14.4 (V)	415	2456504	50	17m	---	-			++	+++	+++	13M	+++	+++	+		--	---	WY Cam		
X Cam	7.1-14.3 (V)	143.2	2456731	48	++	25m		+	+++	04M	+	17m	++	25M	+++		-	07m	++	15M	X Cam	
T Cap	8.7-14.8 (V)	271	2456588	44	---		+	+++	24M	+++	+++		---	23m	---		+	+++	20M	+++	T Cap	
V Cap	8.1-15.3 (V)	274	2456629	42	--	---	08m	-	+++	+++	03M	+++	++		--	---	09m	--	++		V Cap	
Z Cap	8.6-15.0 (V)	182	2456720	48	--		++	22M	+++		-	28m	--	++	23M	+++		-	26m	--	++	Z Cap
R Cas	4.4-13.5 (V)	431	2456568	40	+++	+++	+++	+++	++			17m		++	+++	+++	+++	+++	05M		R Cas	
RR Cas	10.0-15.0 (V)	302	2456683	48	--	---	10m	---		++	+++	05M	+++		--	---	09m	---			RR Cas	
RV Cas	7.2-16.0 (V)	332	2456626	39	-	+++	+++	08M	+++	+++	+		--	---	27m	---	-	+++	+++		RV Cas	
S Cas	7.9-17.3 (V)	609	2456705	43	+++	+++	+++	+		---	---	---	---	30m	---	---	---	---	--		S Cas	
SS Cas	8.7-13.4 (V)	140.8	2456762	47	+	15m	++	22M	+++		05m	+++	10M	++	24m		+	29M	+++		SS Cas	
T Cas	6.9-13.0 (V)	443	2456470	55	+++	+++	+		22m			++	+++	+++	+++	+++	+++	22M	+++		T Cas	
U Cas	7.7-16.0 (V)	278	2456812	44	08m	--		++	+++	09M	+++	++		--	---	12m	--	++	+++	12M	U Cas	
V Cas	6.4-13.4 (V)	230	2456742	47	++	+++	26M	+++	+++	+	28m		+++	+++	14M	+++	+++				V Cas	
VZ Cas	9.5-14.8 (V)	169.8	2456695	46	+	27M	+++		-	29m	--	++	16M	++		--	16m	-	+++	02M	VZ Cas	
W Cas	8.2-13.0 (V)	403	2456771	45	05M	+++	+++	+++	++			15m		+	+++	+++	+++	+++	12M		W Cas	
WY Cas	7.5-16.0 (V)	487	2456807	39	+++	27M	+++	+++	+++	+++	+		---	---	---	20m	---	---			WY Cas	
X Cas	9.2-12.8 (V)	413	2456605	55		23m				+	+++	+++	+++	+++	08M	+++	+++	+++			X Cas	
Y Cas	8.7-15.5 (V)	414	2456543	43	---	---	17m	---	--		+	+++	+++	14M	+++	+++	+++		--		Y Cas	

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star		
Z Cas	8.2-15.5 (V)	493	2456822	39	++	+++	+++	13M	+++	+++	+++	+++		-	---	---	---	08m	Z Cas		
V667 Cas	8.9-15.2 (V)	348	2456646	50	--	---	10m	---	-	++	+++	+++	03M	+++	++		-	---	24m	V667 Cas	
T Cen	5.5-9.0 (V)	90.9	2456788	47	15m	27M	+++	16m	28M	+++	15m	28M	+++	14m	27M	+++	14m	26M	T Cen		
BF Cep	9.3-15.5 (V)	433	2456653	50	+++	+++	05M	+++	+++		--	---	---	10m	---	---		+	BF Cep		
PQ Cep	8.0-12.2 (V)	441	2456465	50	+++	+++	++		27m		+	+++	+++	+++	+++	+++	+++	03M	+++	PQ Cep	
RR Cep	9.0-15.5 (V)	389	2456653	41	---	02m	---		+++	+++	10M	+++	+++	+		---	---	26m	RR Cep		
RY Cep	9.2-14. (V)	150.8	2456702	51	05m	++	20M	++	--	04m	++	20M	++	--	02m	++	18M	++	RY Cep		
S Cep	6.6-12.5 (V)	482	2456832	55	+++	27M	+++	+++	+++	+++	+++	+++		01m		++	+++	+++	S Cep		
SZ Cep	8.7-16.0 (V)	327	2456745	50	13m	---	-	++	+++	26M	+++	+++		---	---	05m	---	-	SZ Cep		
T Cep	5.2-11.3 (V)	383	2456732	54	22m	+++	+++	+++	+++	+++	+++	+++	17M	+++	+++	+++	+++	+++	09m	T Cep	
X Cep	8.1-16.0 (V)	530	2456760	41	09m	---	---		+++	+++	+++	14M	+++	+++	+++	+++		-	X Cep		
Y Cep	8.3-16.0 (V)	334	2456783	40	++		---	---	16m	---		+++	28M	+++	+++	++		---	Y Cep		
Z Cep	10.1-15.7 (V)	280	2456645	48	++		---	---	06m	---		+++	18M	+++		--	---	11m	Z Cep		
omi Cet	2.0-10.1 (V)	329	2456812	38	+++	+++	+++	+++	14m	+++	+++	+++	17M	+++	+++	+++	+++	+++	omi Cet		
R Cet	7.2-14. (V)	166.3	2456737	43	+++	17M	+++	+	21m		+	+++	02M	++	-	04m	+++	15M	+++	R Cet	
S Cet	7.6-14.7 (V)	323	2456688	47	+++	+++	26M	+++	+++	++		---	16m	--	+	+++	+++	15M	S Cet		
U Cet	6.8-13.4 (V)	234.8	2456695	44		+	+++	+++	04M	+++	++		14m		+	+++	25M	+++	+++	++	U Cet
V Cet	8.6-14.8 (V)	258	2456771	45	---	20m	--		+	+++	16M	+++	++		-	---	05m	-	+++	29M	V Cet
W Cet	7.1-14.8 (V)	357	2456782	50	+++	+++	+++	07M	+++	+++	+		--	---	02m	--		+	+++	+++	W Cet
X Cet	8.4-13.0 (V)	183.4	2456795	49	+++	++	27m		+++	28M	+++	++	29m		+++	27M	+++	++	X Cet		



Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star	
Z CrB	8.8-15.5 (V)	251	2456812	42	---	02m	-	+++ 17M	+++ ++		--	---	10m	--		++ 24M	+++	Z CrB		
RT Crt	10.8-14. (p)	183.5	2456721	50	14m		++ 16M	+	- 16m	-		+ 16M	+	- 16m	-		RT Crt			
U Crt	9.5-<13.5 (V)	168.3	2456838	45	10M	+		-- 13m	+	28M +++		28m	--		++ 12M	++		U Crt		
R Crv	6.7-14.4 (V)	318	2456774	41	04m	+	+++ +++	13M +++	+++ +++	+++		---	18m	-		++ +++		R Crv		
ST Crv	11.7-<15. (p)	242	2456634	50	---		--		22M		--	---	21m	---		--		19M		ST Crv
U Crv	10.1-<15. (p)	285	2456623	50	04M	+		-	---	26m	---		--		+++ 15M	+++	---	---	U Crv	
R CVn	6.5-12.9 (V)	329	2456737	46		03m	++ +++	+++ +++	+++ 03M	+++ +++	+++	28m		++		R CVn				
RT CVn	9.4-17.5 (V)	253	2456740	50	--		++ 24M	+++	-	---	---	01m	---		+++ 04M	++		--	RT CVn	
U CVn	8.9-16. (V)	341	2456602	50	---		--		++ +++	25M +++	+++	---	---	13m	---		--		+	U CVn
AU Cyg	9.5-15.3 (p)	437	2456672	50		+++ +++	20M +++	+++ +		---	---	25m	---	---		--		AU Cyg		
BG Cyg	9.0-12.8 (V)	293	2456718	30		21m	+	+++ 20M	+++ +++	+++ ++			11m	+		BG Cyg				
BU Cyg	10.2-14.5 (V)	157.5	2456801	50		27m	--		++ 16M	+	---	04m	+	21M ++		-- 08m		BU Cyg		
CM Cyg	9.3-14.5 (V)	254	2456829	44		---	11m	-		++ +++	03M +++		-- 23m	--		+++		CM Cyg		
CN Cyg	7.3-15.0 (V)	198.5	2456722	44	---	01m	++ 29M	+++ ++		-- 18m	-	+	+++ 13M	+++ +	---		CN Cyg			
DD Cyg	10.5-<13. (p)	147.5	2456838	47	14M	+		-- 03m	++ 11M		28m	-		++ 05M		23m	-		DD Cyg	
DR Cyg	9.3-<15.5 (p)	317	2456663	50	15M	+++ +		--	---	23m	---	---		+++ 28M	+++ +++	-		DR Cyg		
FF Cyg	8.2-14.2 (V)	326	2456836	43	+++		-- 30m	--		+++ +++	17M +++	+++ ++			--		FF Cyg			
khi Cyg	3.3-14.2 (V)	408	2456829	41	+++ +++	+++	03M +++	+++ +++	+++ +		- 30m	---		+++		khi Cyg				
R Cyg	6.1-14.4 (V)	427	2456526	35	+++ +++		---	31m	---		+++ +++	27M +++	+++ +++	+++		R Cyg				
RT Cyg	6.0-13.1 (V)	190.1	2456752	44	+++ 08M	+++ ++	24m	+	+++ 17M	+++ +++		01m	+++ 24M		RT Cyg					



Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star
RZ Cyg	9.8-14.1 (V)	268	2456791	50	19M	+++ +	- ---	02m		++ +++	13M	+++ +	- 25m						RZ Cyg
S Cyg	9.3-16.0 (V)	323	2456736	50	---	-	++ +++	15M	+++ +	-- ---	23m	---	---					+++	S Cyg
ST Cyg	9.4-14.5 (V)	338	2456565	48	++ +++	23M	+++ +++ +		- ---	18m	---			+	+++	27M			ST Cyg
SX Cyg	8.2-15.2 (V)	410	2456829	41	+	+++ +++	15M	+++ +++ +++ +		- ---	---	12m	---	-					SX Cyg
TU Cyg	8.7-15.5 (V)	219.7	2456840	49	+	+++ 11M	+++	- ---	02m	-	+++ 18M	+++ +	---	08m					TU Cyg
TY Cyg	9.0-15.0 (V)	346	2456718	48	+++		-- ---	15m	---	-	++ +++	28M	+++ +++ ++						TY Cyg
U Cyg	5.9-12.1 (V)	471	2456670	48	+++	24m		++ +++	+++ +++ +++ +++ +++ +++	08M	+++ +++ +++ +++								U Cyg
UX Cyg	9.0-16.5: (V)	577	2456378	40	+++ +++	17M	+++ +++ +++ +++			---	---	---	---	29m					UX Cyg
V Cyg	7.7-13.9 (V)	418	2456585	46	+++		---	14m	-	+++ +++ +++	23M	+++ +++ +++ +++							V Cyg
WX Cyg	8.8-13.2 (V)	408	2456840	48	+++ +++ +++	14M	+++ +++ +++ +				12m			+++					WX Cyg
WY Cyg	9.5-17.0 (p)	308	2456727	44	07M	+++	---	---	28m	---	---		+	+++	11M	+++ +	--		WY Cyg
Z Cyg	7.1-14.7 (V)	262.5	2456723	45	---	15m	-	+++ +++	13M	+++ +++	- ---	05m		+++	31M				Z Cyg
V369 Cyg	9.8-14.9 (V)	105	2456773	47	04M	29m	-	19M	-	14m	++ 02M	27m	-	15M	-	10m	28M		V369 Cyg
V391 Cyg	11.2-<15.2 (p)	422	2456840	50	---	---	--			+++	06M	+		-- ---	---	---	---	03m	V391 Cyg
V462 Cyg	12.0-16.4 (p)	367	2456734	50	---	-		29M			-- ---	---	28m	---	---	---	---	--	V462 Cyg
ES Del	10.6-16.5 (p)	472	2456590	50	02m	---	---	---		+	+++	26M	+++ ++			- ---	---		ES Del
R Del	7.6-13.8 (V)	285	2456637	45	18M	+++ +++ +			24m	-	++ +++	29M	+++ +++ +++						R Del
RU Del	9.9-<14. (V)	259	2456593	50	+++ +		- ---	07m	--	+	+++	15M	+++	---	22m	---			RU Del
S Del	8.3-12.4 (V)	278	2456824	52		++ +++ +++	21M	+++ +++ ++			01m	++ +++ +++	24M						S Del
SU Del	12.0-16.2 (p)	221	2456810	50	-	26M		-- ---	17m	---	--		04M	- ---	24m	---			SU Del

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star
T Del	8.5-15.2 (V)	334	2456540	45	28M	+++	+++	++	-	---	30m	---	--	+	+++	27M	+++	+++	T Del
V Del	8.1-16.1 (V)	527	2456729	42	---	-	+	+++	+++	29M	+++	+++	+++	+++	+	---	---	---	V Del
X Del	8.2-14.8 (V)	281	2456778	42	05m		+++	+++	02M	+++	++	-	---	12m	-	+	+++	08M	X Del
Y Del	8.8-16.5: (V)	469	2456827	43	+++	+++	+++		--	---	---	---	12m	---	---	-	+	+++	Y Del
Z Del	8.3-15.3 (V)	306	2456685	48	++	-	---	18m	---		+++	+++	12M	+++	++	-	---	18m	Z Del
AL Dra	11.0-13.8 (p)	329	2456613	50	++	30M	+++	+			---	14m	-			++	25M	+++	AL Dra
AM Dra	11.3-<13.8 (p)	330	2456581	50	++	06M			--	---	20m	---	--			++	02M		AM Dra
AN Dra	11.8-16. (p)	354	2456767	50		30M			--	---	---	26m	---	---	---			19M	AN Dra
R Dra	6.7-13.2 (V)	248	2456628	45	+	29m		+++	+++	21M	+++	+++	++		04m	++	+++	24M	R Dra
RT Dra	9.6-13.8 (V)	284	2456657	50	29M	+++	+++		-	20m	-		+++	+++	09M	+++	+		RT Dra
RU Dra	9.4-<13.6 (V)	299	2456849	40	+++	26M	+++	+++	+		---	24m	---		+++	21M	+++	+++	RU Dra
RV Dra	8.4-14.2 (V)	207.2	2456674	35	+++	+	--	21m	+	+++	02M	+++	+	--	14m	+	26M	+++	RV Dra
SV Dra	9.1-15.0 (V)	256.5	2456810	49	-	---	03m	-	+	+++	09M	+++		---	18m	---		+++	SV Dra
SY Dra	10.5-<14.0 (V)	396	2456578	50	---	-		+	+++	15M	+++	+		--	---	29m	---	---	SY Dra
T Dra	7.2-13.5 (V)	421	2456632	44	+++	+++	+++	++			28m			+++	+++	+++	30M	+++	T Dra
U Dra	9.1-14.6 (V)	317	2456843	47	---	15m	--		+++	+++	13M	+++	+++		--	28m	---	-	U Dra
V Dra	9.5-14.7 (V)	279	2456743	50	+++	+++	08M	+++		--	27m	---	-	++	+++	14M	+++	+	V Dra
W Dra	8.9-15.4 (V)	289	2456871	43	+++	+++		--	---	13m	--	+	+++	14M	+++	++		---	W Dra
WZ Dra	8.5-14.0 (V)	395	2456591	50	-		+++	+++	+++	21M	+++	+++	+++		-	---	04m	-	WZ Dra
X Dra	8.9-15.8 (V)	258	2456803	44	-	---	23m	---		+++	17M	+++	+	--	---	08m	--	++	X Dra

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star			
Y Dra	6.24-15.0 (V)	330	2456564	45	20M	+++	+++	+++		---	20m	---		+	+++	+++	15M	+++	+++	Y Dra		
YZ Dra	8.3-<14.5 (V)	349	2456651	50		-	---	23m	---	--		+	+++	+++	16M	+++	+++		--	---	YZ Dra	
ZZ Dra	10.-<15.5 (p)	267	2456796	50	15M	++		-	---	27m	---	---		+	+++	08M	++		-	---	19m	ZZ Dra
R Equ	8.7-15.0 (V)	261	2456763	44		-	---	12m	--		++	+++	07M	+++	+		--	31m	---	-	+++	R Equ
RR Equ	10.8-15.7 (p)	272	2456720	50	+		-	---	30m	---	---			++	13M	+		-	---	27m	---	RR Equ
Z Equ	11.8-16.0 (p)	209.9	2456673	50	08M		-	---	23m	---	--			06M		-	---	19m	---	--	01M	Z Equ
BD Eri	12.2-16.5: (p)	353	2456602	50	---	---	04m	---	---	--			30M			---	---	---	---	23m		BD Eri
RS Eri	9.2-<12.8 (p)	299	2456792	50	+++	+++	+			28m	--			++	+++	25M	+++	+++	+			RS Eri
RT Eri	8.5-12.9 (p)	371	2456795	46		06m			++	+++	+++	26M	+++	+++	+++	+++				12m		RT Eri
SX Eri	9.3-<13.6 (V)	283	2456644	50	07M	+++			--	27m	---	-		++	+++	16M	+++	++		-	---	SX Eri
T Eri	7.2-13.2 (V)	252.6	2456731	45	+++	+++	11M	+++	+++	+	30m			++	+++	22M	+++	+++	++			T Eri
U Eri	8.5-14.9 (V)	276	2456838	49	03m	-		++	+++	17M	+++	++		-	---	05m	-		++	+++	18M	U Eri
W Eri	7.5-14.5 (V)	372	2456848	40	+		---	29m	---		+++	+++	25M	+++	+++	+++	++					W Eri
R For	7.5-13.0 (V)	387	2456668	52			+++	+++	+++	+++	11M	+++	+++	+++	+				14m			R For
BP Gem	9.5-14.8 (V)	245.3	2456631	50	22m	---		+++	24M	+++	+		--	25m	---		+++	26M	+++			BP Gem
R Gem	6.0-14.0 (V)	371	2456687	36	++	+++	+++	10M	+++	+++	+++	+++			-	---	02m		+	+++		R Gem
RT Gem	11.-<16. (p)	349	2456523	50	---	--		+++	10M	+		-	---	---	---	02m	---	---	-			RT Gem
S Gem	8.0-14.7 (V)	293	2456727	42	---	26m	---		+	+++	29M	+++	+++	++		---	15m	--		++		S Gem
ST Gem	11.0-15.5 (p)	247	2456614	47	31m	---	--		26M	++		---	---	04m	---		29M	+++				ST Gem
T Gem	8.0-15.0 (V)	288	2456784	50	---	17m	---		+	+++	+++	10M	+++	++		-	---	01m	-		++	T Gem

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star		
UZ Gem	11.8-16.2 (p)	348	2456543	50	---	---	-		22M		-	---	---	---	13m	---	---	---	UZ Gem		
V Gem	7.8-14.9 (V)	275	2456725	45	16M	+++	+++		---	16m	--	++	+++	17M	+++	+++		---	V Gem		
VX Gem	10.8-15.1 (p)	380	2456813	50	---	---	---	09m	---	---	-		+++	15M	+++		-	---	VX Gem		
WZ Gem	9.0-15.0 (V)	329	2456670	50		++	+++	28M	+++	+++	+		--	---	09m	---		++	+++	WZ Gem	
X Gem	7.5-13.8 (V)	263.5	2456696	49	18m		++	+++	26M	+++	+++	+		-	08m		+++	+++	15M	X Gem	
ZZ Gem	12.4-16.0 (p)	313	2456719	49		08M		---	---	---	17m	---	---	--		17M		-		ZZ Gem	
AE Her	10.5-15. (p)	251	2456855	50	---	24m	---	-		+	30M	+++		--	---	02m	--		+++	AE Her	
AS Her	9.9-15.3 (p)	269	2456833	53	++	+++	08M	++		-	---	14m	---	-		++	+++	04M	++	-	AS Her
BG Her	9.6-12.5 (p)	347	2456735	50	+++	+++				02m			+++	+++	23M	+++	+++	++		BG Her	
DF Her	11.3-14.2 (p)	335	2456768	50	--	---	---	06m	---	--			+	21M	+		-	---	---	DF Her	
DN Her	10.5-12.5 (p)	228.2	2456769	50		++	+++	05M	+		27m			+++	19M	+++				DN Her	
DO Her	10.8-16.4 (p)	211.3	2456734	50	---		24M	+		--	---	09m	---		23M	++	--	---	06m	DO Her	
NP Her	12.2-15.5 (p)	430	2456575	50		--	---	---	---	---	04m	---	---	---	--				05M	NP Her	
R Her	8.2-15.0 (V)	317	2456839	39	---	---	05m	-	+++	+++	09M	+++	+++	+		-	---	19m	---	R Her	
RS Her	7.0-13.0 (V)	219.1	2456772	47	+++	+++	+	24m		+	+++	+++	05M	+++	++	29m		+++	+++	RS Her	
RT Her	8.5-15.5 (V)	298	2456698	40	--	---	15m	--		+	+++	14M	+++	+++		---	---	10m	--	RT Her	
RU Her	6.8-14.3 (V)	473	2456577	43	28m	---			+	+++	+++	+++	19M	+++	+++	+++	+++	++		RU Her	
RV Her	9.0-15.5 (V)	207	2456695	44	+++	+	---	21m	--	++	20M	+++	+	---	14m	--	+++	13M		RV Her	
RY Her	8.3-14.1 (V)	221.5	2456702	44	+		-	17m		+++	25M	+++	+++		27m	-	++	+++	02M	RY Her	
RZ Her	9.0-15.5 (V)	327	2456623	44	+++	24M	+++	+++	+		--	---	26m	---	--		++	+++	17M	+++	RZ Her

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star		
S Her	6.4-13.8 (V)	304	2456684	47	+++		--	03m	+	+++	+++	24M	+++	+++	+++		--	01m	S Her		
SS Her	8.5-13.5 (V)	106.6	2456756	48	24M	++	17m	++	09M	+	04m	25M	++	19m	++	09M	+	03m	SS Her		
SV Her	9.1-15.1 (V)	239	2456819	46	25M	+++	++	--	---	03m	-	+++	21M	+++	+	--	28m	---	SV Her		
SY Her	8.4-14.0 (p)	116.5	2456792	49	+	24M	++	24m	++	20M	++	19m	++	14M	+	12m	++	08M	SY Her		
T Her	6.8-13.7 (V)	164.7	2456826	47	-	05m	+++	23M	+++	+	18m	++	+++	03M	+++	30m	-	+++	T Her		
TV Her	9.0-14.6 (V)	305	2456798	37	+++	23M	+++	+++	++		---	---	03m		+++	24M	+++	+++	TV Her		
U Her	6.4-13.4 (V)	401	2456741	40	+++	+++	+++	++			22m		++	+++	+++	29M	+++	+++	U Her		
UV Her	9.5-15. (p)	344	2456747	50	+++	+		-	---	22m	---	--		+++	+++	11M	+++	++	UV Her		
UZ Her	9.6-<12.5 (p)	265	2456730	50			02m		+++	+++	14M	+++	++		25m		+++		UZ Her		
VY Her	10.1-<15. (p)	304	2456646	50	---	15m	---	--		+	+++	16M	+++		--	---	15m	---	--	VY Her	
W Her	7.6-14.4 (V)	280	2456798	45	08m		+++	+++	13M	+++	+++		--	14m	-	++	+++	18M	W Her		
WY Her	11.-15.5 (p)	377	2456642	50			+	+++	07M	+		--	---	---	12m	---	---	-		WY Her	
R Hya	3.5-10.9 (V)	385	2456705	49	27m	+++	+++	+++	+++	+++	+++	04M	+++	+++	+++	+++	+++	+++	16m	R Hya	
RZ Hya	9.2-<12.5 (V)	332	2456835	50	+++	+++			20m			+++	+++	+++	03M	+++	+++			RZ Hya	
S Hya	7.2-13.3 (V)	256	2456831	49	+++		20m		+++	+++	25M	+++	+++	+		03m		+++		S Hya	
T Hya	6.7-13.48 (V)	288	2456648	49	+++	25M	+++	+++	++		21m		++	+++	+++	09M	+++	+++		T Hya	
TU Hya	10.5-15.8 (p)	278	2456710	50	28M	+++		--	---	16m	---	-		+	+++	02M	+		-	---	TU Hya
UZ Hya	8.8-14.5 (V)	264	2456792	50	+++	+		--	26m	---		+++	+++	05M	+++	+	--	15m	--		UZ Hya
VV Hya	10.4-<16. (p)	214	2456826	50	++		--	---	13m	---		28M	++		-	---	13m	---	-	28M	VV Hya
W Hya	7.7-11.6 (p)	397	2456855	50	+++	22M	+++	+++	+++	+++	+++	++	09m	+++	+++	+++	+++	+++			W Hya

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star			
WW Hya	10.5-<15. (p)	315	2456786	50	---		++	+++	01M	+		-	---	---	05m	---	--		+++	WW Hya		
X Hya	7.2-13.6 (V)	300	2456706	42	++		-	06m		+	+++	+++	10M	+++	+++	++		31m	-	X Hya		
R Lac	8.5-14.8 (V)	300	2456592	41	--		++	+++	18M	+++	+++	+		-	---	11m	--		++	+++	12M	R Lac
S Lac	7.6-13.9 (V)	241	2456795	46	21M	+++	+++		30m	-		++	+++	19M	+++	+++		27m	-		S Lac	
R Leo	4.4-11.3 (V)	311	2456651	43	+++	+++	+++	+++	11m	+++	+++	+++	23M	+++	+++	+++	+++	+++	+++	+++		R Leo
S Leo	9.0-14.5 (V)	188.4	2456657	47	22m	-	+++	21M	+++		28m	--		++	25M	+++	+	---	02m		S Leo	
TZ Leo	12.-15. (p)	324	2456630	50		07M		-	---	---	18m	---	---			27M					TZ Leo	
V Leo	8.4-14.6 (V)	273	2456646	44		---	10m	-		++	+++	10M	+++	++		---	10m	-		++		V Leo
W Leo	8.9-14.8 (V)	383	2456770	35			-	---	---	12m	--		+	+++	24M	+++	+++	+++	++			W Leo
R Lep	5.5-11.7 (V)	450	2456570	55	+++	+++	24M	+++	+++	+++	+++	+++	++	14m		++	+++	+++	+++	+++		R Lep
T Lep	7.4-14.3 (V)	371	2456687	47	+++	+++	+++	10M	+++	+++	++		--	23m	---		++	+++				T Lep
X Lep	10.6-16. (p)	279	2456726	50	++	22M	++		---	---	10m	---	-		+	28M	+++		--			X Lep
EE Lib	10.2-<13.5 (p)	272	2456860	50	---		++	+++	03M	++		---	17m	---		++	31M	+++				EE Lib
RR Lib	7.8-15.0 (V)	278	2456860	47	---	16m	--		+	+++	27M	+++	+++	+	---	21m	---		+	+++		RR Lib
RS Lib	7.0-13.0 (V)	218.1	2456766	48	+++	++		04m	+++	+++	17M	+++	+++		08m		++	+++	21M			RS Lib
RT Lib	8.2-14.7 (V)	250.4	2456801	45	08m		+++	31M	+++	+++		---	15m	-		++	+++	06M	+++			RT Lib
RU Lib	7.2-14.4 (V)	317	2456720	46	+++	+++	10M	+++	+++	+		-	31m	---		+++	+++	24M	+++			RU Lib
S Lib	7.5-13.0 (V)	193.5	2456808	49		14m	++	+++	19M	+++	++	26m		+++	29M	+++	+++					S Lib
SX Lib	10.2-<15.8 (p)	330	2456833	50			--	---	---	03m	---	--		+	+++	15M	+++		--	---		SX Lib
V Lib	9.0-15.9 (V)	256	2456876	42	+++	++		-	---	23m	---		+	+++	09M	+++	+	---	---	04m		V Lib

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star
W Lib	10.5-15.5 (V)	205	2456712	45	++	-	--- 11m	-	++ 11M	+	--	--- 02m	-	+++ 02M					W Lib
Y Lib	7.6-14.7 (V)	277	2456755	41	+++ +++	02M	+++ ++		---	15m	-	+++ +++	06M	+++ +++					Y Lib
R LMi	6.3-13.2 (V)	376	2456738	41		01m	+	+++ +++ +++	04M	+++ +++ +++ +++								12m	R LMi
S LMi	7.5-14.3 (V)	232	2456730	42	--	+	+++ 08M	+++ ++	-	21m	-	+++ 26M	+++ +++ +						S LMi
U LMi	10.0-13.3 (V)	274	2456643	40			27m		+	+++ 17M	+++ +++							28m	U LMi
R Lyn	7.2-14.3 (V)	374	2456864	44	+++ +	-	--- 12m	-	+	+++ +++ 24M	+++ +++ +++ ++								R Lyn
RT Lyn	10.5-<13. (p)	392	2456736	50		-	--- 10m	--			++ +++ 22M	+++ +++							RT Lyn
RU Lyn	11.0-<16.0 (p)	245.1	2456667	50	---	25m	---	---		28M	++	-	---	27m	---	---		28M	RU Lyn
S Lyn	8.5-14.8 (V)	298	2456856	45	+++ 25M	+++ +++ +		--	---	08m	-	++ +++ 19M	+++ +++ +++						S Lyn
T Lyn	8.8-13.5 (V)	403	2456657	47			15m			+++ +++ +++ 20M	+++ +++ +++ +								T Lyn
U Lyn	8.8-15.0 (V)	437	2456860	42		---	---	24m	---	--		+++ +++ 24M	+++ +++ +++ +++ ++						U Lyn
W Lyn	7.5-14.0 (V)	296	2456767	50	+++	--	09m		++ +++ +++ 04M	+++ +++ +++								30m	W Lyn
X Lyn	9.5-16. (V)	323	2456665	50	+++ +++ 03M	+++	---	---	14m	---	--	+	+++ 23M	+++					X Lyn
AN Lyr	11.0-17.: (p)	222.9	2456648	48	---	01m	---	+	18M		---	---	12m	---	-	27M	++	-	AN Lyr
RT Lyr	9.1-15.2 (V)	256	2456778	45	---	08m	-	++ +++ 03M	+++	---	21m	---	+	+++ 14M					RT Lyr
RY Lyr	9.0-<15.6 (V)	325	2456752	40	---	07m	---	+	+++ 17M	+++ +++ +++	---	---	28m	---	--				RY Lyr
SS Lyr	8.4-14.0 (V)	350	2456684	50	+++ +		---	04m		+	+++ +++ 26M	+++ +++ +++ +++							SS Lyr
TY Lyr	9.0-14.6 (V)	336	2456805	35	+++ +++ +		---	---	09m	-	++ +++ 05M	+++ +++ +++ +							TY Lyr
U Lyr	8.3-13.5 (V)	452	2456615	52	+++ +++ +++ +++ 22M	+++ +++ +++ +++ ++												25m	U Lyr
V Lyr	8.2-15.7 (V)	378	2456495	33	+++ +++ +	-	---	---	28m	---	-	+++ 31M	+++ +++ +++ +++						V Lyr

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star	
VZ Lyr	12.-16. (p)	246.2	2456719	50		--	---	30m	---	---	-	31M		-	---	---	01m	---	VZ Lyr	
W Lyr	7.3-13.0 (V)	195.9	2456700	48	+++	+++	01M	+++		14m	++	+++	16M	+++	++	26m		+++	W Lyr	
WZ Lyr	10.6-15. (p)	373	2456596	50	23M	+++	+		--	---	28m	---	---	-		+++	31M	+++	WZ Lyr	
Z Lyr	9.2-15.3 (V)	290	2456769	49	---	22m	---	-		++	+++	13M	+++	+	--	---	08m	---	Z Lyr	
BC Mon	10.0-<13.2 (p)	267	2456612	50		++	+++	08M	+++		--	19m	--		+++	30M	+++	++	BC Mon	
BD Mon	10.3-<12.4 (V)	381	2456543	50	26M	+++	+++	+				05m			+	+++	+++	11M	BD Mon	
CL Mon	11.0-17.5 (p)	500	2456502	50	---	---	06m	---	---	---	---			+++	14M	+++			CL Mon	
*FX Mon	11.-18.0 (p)	428.5	2440275	35		-	---	---	---	---	---	12m	---	---	-	++	09M	+++	*FX Mon	
RR Mon	8.4-15.8 (V)	394	2456854	39	+++	03M	+++	+++	++		---	---	31m	---	---	+	+++	+++	RR Mon	
RS Mon	9.82-<12.7 (V)	262	2456616	50	+++	21M	+++	++		--	01m		++	+++	10M	+++	+		RS Mon	
RX Mon	9.6-<13.0 (p)	342	2456616	50	---		+	+++	+++	17M	+++	+++		---	04m	-			RX Mon	
ST Mon	11.3-16.7 (B)	396	2456666	35	---	---	---	25m	---	---	-		+	11M	+		---	---	ST Mon	
SY Mon	9.6-17.0 (p)	422	2456621	50	+++		--	---	---	29m	---	---	---	-	++	+++	26M	+++	SY Mon	
TT Mon	8.0-<13.5 (p)	318	2456563	50		--	20m	---		+++	+++	29M	+++	+++	++	-	---	04m	TT Mon	
V Mon	6.0-13.9 (V)	331	2456610	46	+++	+++	12M	+++	+++	+++		--	10m		+++	+++	+++	09M	V Mon	
X Mon	6.8-10.2 (V)	156.2	2456799	51	+++	03m	+++	24M	+++	+++	08m	+++	27M	+++	+++	12m	+++	31M	X Mon	
Y Mon	8.6-14.9 (V)	227.9	2456678	49	+++	++	--	27m	---		+	+++	17M	+++	+	---	10m	-	++	Y Mon
V831 Mon	11.2-14.0 (V)	322	2456765	50	---			+++	06M	+			---	14m	---				V831 Mon	
BC Oph	10.7-15.3 (p)	306	2456773	50	+++	06M	+		---	---	08m	---	-		+++	08M	++		BC Oph	
BK Oph	12.3-16.8 (p)	380	2456559	50		04M		---	---	---	---	13m	---	---	---	-		19M	BK Oph	



Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star	
R Oph	7.0-13.8 (V)	304	2456747	45	+++	+++	+++		--	11m		+++	+++	25M	+++	+++	+++		R Oph	
RR Oph	8.0-14.9 (V)	292	2456783	46	+	--	---	03m	-	+++	+++	15M	+++	+++		---	20m	---	RR Oph	
RT Oph	8.6-15.5 (V)	425	2456729	36	+	+++	+++	05M	+++	+++	+++		-	---	---	---	02m	---	RT Oph	
RU Oph	8.6-14.2 (V)	201.7	2456793	49	29M	+++	++	--	11m	+	+++	19M	+++	+	30m	--	+	+++	RU Oph	
RX Oph	9.8-<13. (V)	320	2456572	50	+		--	18m	--		++	+++	25M	+++	+++		---		RX Oph	
RY Oph	7.4-13.8 (V)	150.2	2456770	46	+++	-	08m	+++	18M	+++	-	09m	+++	16M	+++	-	06m	+++	RY Oph	
S Oph	8.9-14.7 (V)	234.5	2456765	45	--	24m	--	+	+++	10M	+++		---	15m	--	++	30M	+++	S Oph	
SS Oph	7.8-14.5 (V)	179.9	2456749	47	-	+++	22M	+++	+	28m	-	+++	21M	+++	+	23m	-	+++	SS Oph	
T Oph	8.8-<14.2 (V)	368	2456877	36		-	---	---	16m	---	+	+++	26M	+++	+++	+++	+		T Oph	
UX Oph	9.4-13.6 (V)	116.6	2456829	50	-	05m	+++	04M	-	01m	28M	++	26m	+	23M	++	20m	+	UX Oph	
V Oph	7.3-11.6 (V)	296	2456676	48	14m	+++	+++	+++	+++	05M	+++	+++	+++	+++	++	06m	+++	+++	+++	V Oph
W Oph	9.3-14.9 (V)	333	2456603	41	+	+++	21M	+++	+++	+		---	---	05m	--	+	+++	20M		W Oph
X Oph	5.9-9.2 (V)	328	2456865	53	+++	+++	+++	+++	+++	10m	+++	+++	+++	+++	+++	01M	+++	+++	+++	X Oph
Z Oph	7.6-14.0 (V)	350	2456604	40		--	18m	-	++	+++	+++	08M	+++	+++	+++		---			Z Oph
V915 Oph	11.0-16.2 (p)	111.2	2456825	40	---	12m	25M	-	---	04m	17M	-	23m	-	06M	--	12m	25M	V915 Oph	
V1055 Oph	12.0-<15.5 (p)	303	2456602	50	---	---	--		24M		-	---	---	22m	---	---	--		V1055 Oph	
BK Ori	9.2-14. (p)	339	2456809	50	+++	+++	+		--	16m	--		++	+++	+++	02M	+++	++		BK Ori
BR Ori	11.0-15.5 (V)	159	2456713	50	--	+	11M	-	---	01m		20M		---	07m	-	26M	+		BR Ori
R Ori	9.05-13.4 (V)	378	2456633	40	++	+++	+++	05M	+++	+++	+++			18m			+++			R Ori
RR Ori	9.1-<14.7 (V)	250	2456838	50	29m	---	-	++	+++	03M	++	--	---	05m	--	+	+++	08M		RR Ori





Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star
RZ Sco	8.0-12.8 (V)	156	2456724	45	+++	05M +++			01m +++	10M +++			04m +++	13M +++	+			RZ Sco	
Z Sco	8.7-13.4 (V)	355	2456579	49		30m			++ +++	+++ +++	23M +++	+++ +++				20m		Z Sco	
BC Ser	10.-<14. (p)	248	2456772	50	+	+++ 06M ++			---	10m ---			+ +++	12M +++		---		BC Ser	
R Ser	5.16-14.4 (V)	355	2456869	41	24m ---		++ +++	+++ +++	19M +++	+++ +++	+++ ++			---	14m -			R Ser	
S Ser	7.0-14.1 (V)	367	2456534	43	+++ +		---	07m		++ +++	+++ +++	12M +++	+++ +++	+++ +				S Ser	
T Ser	9.1-15.5 (V)	333	2456732	47	---	24m ---	--		+ +++	30M +++	+++ +			---	23m ---			T Ser	
U Ser	7.8-14.7 (V)	238	2456789	48	+++ +		-- 19m -		++ +++	11M +++	+			-- 12m -		++		U Ser	
WW Ser	11.4-<15.8 (p)	369	2456727	50	---	-		++ 05M		---	---	---	07m ---	---	--			WW Ser	
S Sex	8.2-13.7 (V)	262	2456702	50	07m		+++ +++	17M +++	+++			26m -		+ +++	+++ 04M			S Sex	
ST Sge	10.0-14.9 (V)	192.5	2456799	42	---	06m	+ 28M +++		---	17m -		+++ 06M ++		--- 26m				ST Sge	
W Sge	8.8-14.4: (V)	278	2456668	50	+++ ++		--- 04m -		++ +++	21M +++	+++			---	07m			W Sge	
R Sgr	6.7-12.83 (V)	268	2456771	46	+++ +++ +++			23m		+++ +++	24M +++	+++ +++ +++			16m			R Sgr	
RR Sgr	5.4-14.0 (V)	341	2456821	43	24M +++ +++ +++ ++				---	06m		+++ +++ 30M +++ +++					RR Sgr		
RX Sgr	9.0-14.4 (V)	334	2456805	49	+++		--- 08m ---			+++ +++	19M +++	+++ +++ +			-			RX Sgr	
S Sgr	9.5-16.0 (V)	230.9	2456629	45	+++		--- 22m ---		+ +++	04M ++		-- ---	08m ---		++			S Sgr	
T Sgr	7.1-12.9 (V)	401	2456615	47		19m		+ +++	+++ +++	26M +++	+++ +++ +++ +++ ++							T Sgr	
VX Sgr	6.52-14.0 (V)	645	2456410	50			-- ---	08m ---			++ +++	+++ +++ +++ +++ +++ +++						VX Sgr	
Z Sgr	8.4-16.0 (V)	445	2456484	47	+++ +++ +		---	---	24m ---	---	-		+ +++	+++ 19M				Z Sgr	
R Tau	7.6-15.8 (V)	324	2456588	41	+++ +++ ++		---	---	05m ---		++ +++	16M +++	+++ +++ ++					R Tau	
RX Tau	9.1-14.8 (V)	337	2456655	47	09m ---		+++ +++	16M +++	+++		-- ---	11m ---						RX Tau	

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star				
S Tau	9.2-16.2 (V)	372	2456508	43		--	---	---	19m	---	--		+	+++	26M	+++	+++	++	S Tau				
V Tau	8.5-14.6 (V)	170.1	2456546	47	04m	++	22M	+++		-	23m	-	+++	11M	++		--	09m	+	28M	V Tau		
VX Tau	9.8-<15. (V)	303	2456803	50	+++	12M	+++		---	---	12m	---	-		+	+++	11M	+++		VX Tau			
Z Tau	9.2-14.2 (V)	447	2456632	41		++	+++	+++	09M	+++	+++	+++	+			-	---	29m	---	Z Tau			
R Tri	5.4-12.6 (V)	266	2456652	44	11m	+++	+++	+++	07M	+++	+++	++			03m	+++	+++	29M	+++	R Tri			
S Tri	8.9-<12.4 (V)	249	2456813	48		+	+++	29M	+++	+++			05m		+++	+++	03M	+++		S Tri			
Z Tri	11.2-14.8 (p)	216.2	2456829	50	23M	+		-	---	10m	--		27M	+		---	13m	---		Z Tri			
R UMa	6.5-13.7 (V)	301	2456728	39	+++	+++			-	15m		+	+++	+++	10M	+++	+++	+++		-	R UMa		
RR UMa	8.6-14.2 (V)	230.6	2456806	43		-	29m	--		++	+++	08M	+++	+		--	16m	-	+++	24M	+++	RR UMa	
RS UMa	8.3-14.9 (V)	259	2456680	42		+++	24M	+++	+++		---	24m	--		+	+++	10M	+++	++		RS UMa		
RU UMa	8.1-15.0 (V)	252	2456716	30	++	21M	+++	+++	+		-	---	16m	-	+	30M	+++	+++	+++		RU UMa		
S UMa	7.1-12.7 (V)	229.1	2456861	47	+++	++	27m		+++	+++	15M	+++	+++	+		14m		+	+++	30M	S UMa		
T UMa	6.6-13.5 (V)	256	2456632	41	08M	+++	+++	+		08m	++	+++	21M	+++	+++	++			19m		T UMa		
X UMa	8.1-14.8 (V)	248.5	2456660	43	+++		---	13m	-		+++	28M	+++	+++		---	16m	--		++	X UMa		
S UMi	7.5-<13.2 (V)	326	2456629	50	+++	22M	+++	+++	++		---	04m			++	+++	+++	14M	+++		S UMi		
T UMi	7.8-15.0 (V)	204	2456765	45	29M	+++	++		--	20m	-	+++	21M	+++	+		--	10m	-	+	+++	T UMi	
U UMi	7.1-13.0 (V)	325	2456750	50	04m		+	+++	+++	+++	15M	+++	+++	+++		25m			+	+++	U UMi		
AO Vir	10.5-13.0 (p)	255.5	2456854	43	+++			25m			+	+++	13M	+++	+			06m			AO Vir		
AQ Vir	11.0-15.8 (p)	288	2456737	50	---	---	-		+	24M	++		---	---	15m	---	---		--		++	AQ Vir	
BZ Vir	9.5-<13. (p)	151	2456768	50	+++		-	13m		+	30M	+++		-	14m		+	28M	+++		12m	+	BZ Vir

Star	Max-min (X)	Period	Epoch	M-m	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Star	
PW Vir	9.5-<15.1 (V)	257	2456627	50	13M	++	-	---	21m	---	-	++	27M	+++	+	--	---	03m	PW Vir	
R Vir	6.1-12.1 (V)	145.9	2456794	50	17m	+++	28M	+++	++	12m	+++	24M	+++	++	05m	+++	17M	+++	R Vir	
RR Vir	10.7-15.6 (V)	218	2456684	47	14m	--	+	26M	++	-	---	20m	---		30M	+++		---	RR Vir	
RS Vir	7.0-14.6 (V)	353	2456705	37	+++	+++	+++	++		---	---	02m		+++	+++	10M	+++	+++	RS Vir	
RU Vir	9.0-14.2 (V)	436	2456561	49	+++	+++	+++	+			--	---	03m	--		+	+++	+++	+++	RU Vir
S Vir	6.3-13.2 (V)	376	2456740	45	19m		++	+++	+++	+++	06M	+++	+++	+++	++		30m		S Vir	
SS Vir	6.0-9.6 (V)	357	2456778	48	+++	+++	+++	03M	+++	+++	+++	+++	+++	05m	+++	+++	+++	+++	SS Vir	
SU Vir	8.4-14.5 (V)	206.7	2456695	48	+++	+	---	09m		+++	16M	+++	+	---	02m		+++	09M	SU Vir	
SV Vir	9.3-<12.5 (p)	296	2456675	50	07m		++	+++	+++	04M	+++	++		29m			++	+++	SV Vir	
SY Vir	9.6-13.4 (V)	238	2456694	57			+	+++	+++	07M	++		18m		+	+++	+++	01M	++	SY Vir
T Vir	9.0-14.8 (V)	339	2456537	36	+++	+++	03M	+++	+++	+		---	---	08m	-	++	+++	08M	T Vir	
U Vir	7.4-13.5 (V)	206.6	2456721	47	16M	+++	++		05m	++	+++	11M	+++	+	28m		+++	+++	U Vir	
V Vir	8.1-15.0 (V)	250	2456630	42	+		--	---	01m		+++	14M	+++	++	-	---	06m	-	+++	V Vir
Y Vir	8.3-15.0 (V)	218	2456678	46	10m	-	+++	20M	+++	+	---	16m	-	+++	24M	+++	++	--		Y Vir
BD Vul	9.3-12.7 (V)	427	2456761	53	+++	+++	+++	+++	18M	+++	+++	+++	+			05m				BD Vul
R Vul	7.0-14.3 (V)	136.7	2456796	49	06m	+++	11M	++	21m	++	27M	+++		-	05m	+++	11M	++	20m	R Vul
YZ Vul	10.7-17.3 (p)	368	2456675	40		+++	05M	++			--	---	---	---	14m	---	---		++	YZ Vul