

<u>Gemini</u>	<u>Catalog</u>	<u>Mag.</u>	<u>Size/Sep.</u>	<u>Type</u>	<u>Const.</u>	<u>Comments</u>	<u>RA</u>	<u>Dec</u>	<u>Transit</u>
000	Psi	4.4	5°	VS	PHE	red	1:53:36	-46:18:00	Nov
001	Gamma	3.4	4'	ST	PHE		1:28:24	-43:18:00	Nov
002	NGC55			GX	SCI		0:14:55	-39:11:20	Nov
003	NGC134			GX	SCL		0:30:21	-33:14:44	Nov
004	S	5.5	*	VS	SCL		0:15:24	-32:06:00	Nov
005	R	6.1	*	VS	SCL		1:27:00	-32:30:00	Nov
006	Kappa	6.2	2"	DS	SCL	challenge	0:09:24	-28:00:00	Nov
007	NGC288			GC	SCI		0:52:47	-26:35:24	Nov
008	NGC253			GX	SCL		0:47:34	-25:17:32	Nov
009	NGC247			GX	CET		0:47:08	-20:45:38	Nov
010	7	4.4	*	VS	CET	red	0:14:36	-18:54:00	Nov
011	UV	7	*	VS	CET		1:38:48	-18:00:00	Nov
012	NGC246			PN	CET		0:47:03	-11:52:19	Nov
013	Eta	3.5	*	ST	CET		1:08:36	-10:12:00	Nov
014	Baten	3.7	3'	DS	CET		1:51:30	-10:18:00	Nov
015	Iota	3.5	*	ST	CET		0:19:24	-08:48:00	Nov
016	AD	4.9	1.5°	VS	CET	red	0:14:30	-07:48:00	Nov
017	30	4.4	*	VS	PSC	red	0:02:00	-06:00:00	Nov
018	Struve 80	8.4	26"	DS	CET	equal	0:59:24	+00:47:00	Nov
019	Struve 113	6.4	1.6"	DS	CET	challenge	1:19:48	-00:31:00	Nov
020	Struve 186	6.8	1"	DS	CET	challenge	1:55:54	+01:54:00	Nov
021	OStruve 18	7.8	1.5"	DS	PSC	challenge	0:42:24	+04:12:00	Nov
022	Struve 90	6.8	33"	DS	PSC		1:05:48	+04:55:00	Nov
023	Nu	4.4	*	ST	PSC		1:41:24	+05:30:00	Nov
024	Struve 36	5.7	28"	DS	PSC		0:32:24	+06:54:00	Nov
025	Delta	4.4	*	ST	PSC		0:48:42	+07:36:00	Nov
026	Zeta	5.6	23"	DS	PSC		1:13:42	+07:36:00	Nov
027	Struve 12	5.8	12"	DS	PSC	colored	0:15:00	+08:49:00	Nov
028	Struve 178	8.5	3"	DS	ARI	equal	1:52:00	+10:48:00	Nov
029	Algenib	2.8	*	ST	PEG		0:13:12	+15:12:00	Nov
030	M74			GX	PSC		1:36:41	+15:46:58	Nov
031	Struve 180	4.5	8"	DS	ARI	equal	1:53:30	+19:18:00	Nov
032	Mesarthim			DS	ARI		1:53:32	+19:17:38	Nov
033	55	5.4	6"	DS	PSC	colored	0:39:54	+21:26:00	Nov
034	Struve 88	5.3	30"	DS	PSC	equal	1:05:36	+21:28:00	Nov
035	Struve 174	6	2.6"	DS	ARI		1:50:06	+22:18:00	Nov
036	36	6	0.8"	DS	AND	challenge	0:55:00	+23:36:00	Nov
037	Lambda	4.8	37"	DS	ARI		1:57:54	+23:36:00	Nov
038	Z	8.8	*	ST	PSC		1:16:12	+25:48:00	Nov
039	Struve 24	7.6	5"	DS	AND		0:18:30	+26:08:00	Nov
040	65	6.3	4.4"	DS	PSC	colored	0:49:54	+27:42:00	Nov
041	Alpheratz	2.1	*	ST	AND		0:08:24	+29:05:00	Nov
042	Delta	3.3	*	ST	AND		0:39:18	+30:54:00	Nov
043	M33			GX	TRI		1:33:51	+30:39:27	Nov
044	AQ	6.9	*	VS	AND	red	0:27:36	+35:36:00	Nov
045	Mirach	2	*	ST	AND		1:09:42	+35:36:00	Nov
046	56	5.7	3'	DS	AND		1:56:12	+37:18:00	Nov
047	NGC752			OC	AND		1:57:40	+37:40:18	Nov

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048	R	5.8	Stellar	VS	AND		0:24:00	+38:35:00	Nov
049	M32			GX	AND		0:42:41	+40:51:55	Nov
050	M110			GX	AND		0:40:22	+41:41:05	Nov
051	M31			GX	AND		0:42:44	+41:16:06	Nov
052	SU	8	*	VS	AND	red	0:04:36	+43:30:00	Nov
053	Groombridge34	8	39"	DS	AND		0:18:06	+44:00:00	Nov
054	VX	8	*	ST	AND		0:19:54	+44:42:00	Nov
055	Struve 79	6	8"	DS	AND	equal	1:00:06	+44:43:00	Nov
056	Struve 162	5.8	2"	TS	PER	challenge	1:49:18	+47:54:00	Nov
057	51	3.6	*	ST	AND		1:38:00	+48:36:00	Nov
058	Struve 30	6.9	15"	DS	CAS		0:27:12	+49:59:00	Nov
059	ST	9	*	VS	CAS	red	0:17:36	+50:18:00	Nov
060	Phi	4.1	*	ST	PER		1:43:42	+50:42:00	Nov
061	M76			PN	PER		1:42:19	+51:34:35	Nov
062	Zeta	3.7	*	ST	CAS		0:37:00	+53:54:00	Nov
063	Schedar	2.2	*	ST	CAS		0:40:30	+56:30:00	Nov
064	NGC281			OC	CAS		0:52:59	+56:37:19	Nov
065	Eta	3.4	12"	DS	CAS	colored	0:49:06	+57:49:00	Nov
066	Struve 3062	6.4	1.5"	DS	CAS	challenge	0:06:18	+58:24:00	Nov
067	NGC436			OC	CAS		1:15:57	+58:49:02	Nov
068	NGC457			OC	CAS		1:19:32	+58:17:27	Nov
069	NGC6946			OC	CEP		0.8575	+60:09:00	Nov
070	OStruve Struve 254	7.6	59"	DS	CAS	colored	0:01:12	+60:21:00	Nov
071	NGC129			OC	CAS		0:29:58	+60:12:40	Nov
072	Navi	2.5	*	ST	CAS		0:56:42	+60:42:00	Nov
073	M103			OC	CAS		1:33:21	+60:39:29	Nov
074	44	5.8	1.6"	DS	CAS		1:43:18	+60:36:00	Nov
075	NGC659			OC	CAS		1:44:22	+60:40:09	Nov
076	NGC225			OC	CAS		0:43:36	+61:46:00	Nov
077	NGC654			OC	CAS		1:43:59	+61:52:58	Nov
078	NGC663			OC	CAS		1:46:01	+61:15:06	Nov
079	Epsilon	3.4	*	ST	CAS		1:54:24	+63:42:00	Nov
080	Do13	11	13'	AS	CAS	of	0:50:00	+64:06:00	Nov
081	NGC637			OC	CAS		1:43:03	+64:02:12	Nov
082	SAO012006			DS	CAS		1:51:17	+64:51:16	Nov
083	Struve 163	6.6	35"	DS	CAS	colored	1:51:18	+64:51:00	Nov
084	Struve 3053	5.9	15"	DS	CAS	colored	0:02:36	+66:06:00	Nov
085	Ced214	7.8	30'	EN	CEP		0:04:42	+67:12:00	Nov
086	Psi	4.7	25"	DS	CAS	magnitude	1:25:54	+68:06:00	Nov
087	NGC40			PN	CEP		0:13:01	+72:31:19	Nov
088	HN122	5.7	36"	DS	CAS		0:45:42	+75:00:00	Nov
089	Struve 13	7	0.9"	DS	CEP	challenge	0:16:12	+76:54:00	Nov
090	Struve 2	6.6	0.8"	DS	CEP	challenge	0:09:18	+79:42:00	Nov
091	U	6.8	Stellar	VS	CEP		1:02:18	+81:51:00	Nov
092	Lux	4.3	*	ST	CEP		1:08:42	+86:18:00	Nov
093	h3556	6	3.5"	DS	ERI		3:12:24	-44:24:00	Dec
094	Acamar	3.5	8"	DS	ERI		2:58:18	-40:18:00	Dec
095	NGC1316			GX	FOR		3:22:41	-37:12:30	Dec

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096	F	4.9	8"	DS	ERI	equal	3:48:36	-37:37:00	Dec
097	FornaxCluster			OC	FOR		3:38:31	-35:26:40	Dec
098	Alpha	4	5"	DS	FOR		3:12:06	-29:00:00	Dec
099	Omega	5	11"	DS	FOR		2:33:54	-28:13:00	Dec
100	NGC1360			PN	FOR		3:33:14	-25:52:18	Dec
101	Upsilon	4	*	ST	CET		2:00:00	-21:06:00	Dec
102	Tau4	3.7	*	ST	ERI		3:19:30	-21:48:00	Dec
103	Zaurak	3	*	ST	ERI		3:58:00	-13:30:00	Dec
104	Pi	4.4	*	VS	ERI	red	3:46:06	-12:06:00	Dec
105	Epsilon	3.7	*	ST	ERI		3:32:54	-09:30:00	Dec
106	Mira	2	*	VS	CET		2:19:18	-03:00:00	Dec
107	32	5	7"	DS	ERI	colored	3:54:18	-03:00:00	Dec
108	Struve 231	5.7	16.5"	DS	CET		2:12:48	-02:24:00	Dec
109	M77			GX	CET		2:42:40	-00:00:48	Dec
110	Struve 330	7.3	9"	DS	CET		2:57:12	-00:36:00	Dec
111	Struve 274	7.3	14"	DS	CET	equal	2:31:30	+01:05:00	Dec
112	Struve 202	4	1.6"	DS	PSC	challenge	2:02:00	+02:48:00	Dec
113	Mira			VS	CET		2:19:18	+02:59:00	Dec
114	Struve 299	3.6	2.7"	DS	CET		2:43:18	+03:12:00	Dec
115	Menkar	2.5	*	ST	CET		3:02:18	+04:06:00	Dec
116	Struve 52	5	9"	DS	TAU		3:48:18	+11:12:00	Dec
117	pi	5.2	3"	TS	ARI		2:49:18	+17:28:00	Dec
118	Struve 305	7.4	3"	DS	ARI	challenge	2:47:30	+19:22:00	Dec
119	Struve 394	7.1	7"	DS	ARI		3:28:00	+20:27:00	Dec
120	Epsilon	4.6	1"	DS	ARI	challenge	2:59:12	+21:20:00	Dec
121	Hamal	2	*	ST	ARI		2:07:12	+23:30:00	Dec
122	30	6.5	39"	DS	ARI	colored	2:37:00	+24:38:00	Dec
123	M45			OC	TAU		3:47:00	+24:07:00	Dec
124	Struve 401	6.4	11"	DS	TAU	equal	3:31:18	+27:34:00	Dec
125	Struve 239	7	14"	DS	TRI		2:17:24	+28:44:00	Dec
126	Struve 333	4.6	1.4"	DS	ARI	challenge	2:59:12	+29:18:00	Dec
127	Toms	4.5	9°	ST	ARI		3:20:18	+29:00:00	Dec
128	Iota	5	3.8"	DS	TRI	colored	2:12:24	+30:18:00	Dec
129	Struve 232	8	7"	DS	TRI	equal	2:14:42	+30:24:00	Dec
130	Atik	2.9	*	ST	PER		3:54:06	+31:54:00	Dec
131	Omicron	3.8		ST	PER		3:44:18	+32:18:00	Dec
132	R	5.4	*	VS	TRI		2:37:00	+34:18:00	Dec
133	Rho	3.4	*	VS	PER	red	3:05:12	+38:48:00	Dec
134	ADS2446	7.8	0.9"	DS	PER	challenge	3:17:42	+38:36:00	Dec
135	59	5.6	16"	DS	AND	colored	2:10:54	+39:02:00	Dec
136	NGC1023			GX	PER		2:40:24	+39:03:46	Dec
137	Struve 369	6.7	3"	DS	PER	colored	3:17:12	+40:29:00	Dec
138	Epsilon	2.9	9"	DS	PER	magnitude	3:57:54	+40:01:00	Dec
139	Algol	2.2	*	VS	PER		3:08:12	+41:00:00	Dec
140	Almach	2.2	10"	DS	AND	colored	2:03:54	+42:18:00	Dec
141	NGC891			GX	AND		2:22:33	+42:20:48	Dec
142	M34			OC	PER		2:42:04	+42:46:34	Dec
143	Y	8.1	*	VS	PER		3:27:42	+44:12:00	Dec

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144	Struve 228	6.6	1.1"	DS	AND	challenge	2:14:00	+47:30:00	Dec
145	Melotte20			OC	PER		3:22:03	+48:59:56	Dec
146	Sigma	4.4	*	ST	PER		3:30:36	+48:00:00	Dec
147	Mirfak	1.8	*	ST	PER		3:24:18	+49:52:00	Dec
148	Struve 331	5.4	12"	DS	PER		3:00:48	+52:20:00	Dec
149	Struve 268	6.9	3"	DS	PER		2:29:24	+55:31:00	Dec
150	Struve 307	3.9	28"	DS	PER	magnitude	2:50:42	+55:53:00	Dec
151	NGC869			OC	PER		2:19:03	+57:08:06	Dec
152	NGC884			OC	PER		2:22:32	+57:08:39	Dec
153	Stock2			OC	CAS		2:15:04	+59:15:58	Dec
154	Struve 385	4.2	2.4"	DS	CAM		3:29:06	+59:54:00	Dec
155	Struve 389	6.5	2.7"	DS	CAM		3:30:06	+59:21:00	Dec
156	Struve 362	8.5	7"	DS	CAM	equal	3:16:18	+60:02:00	Dec
157	Struve 400	6.8	1.4"	DS	CAM		3:35:00	+60:00:00	Dec
158	U1	8.1		VS	CAM		3:41:36	+62:36:00	Dec
159	OStruve 36	6.8	46"	DS	CAM		3:40:00	+63:54:00	Dec
160	Kemble			AS	CAM		3:57:30	+63:04:13	Dec
161	BE	4.5	*	ST	CAM		3:49:30	+65:30:00	Dec
162	Iota	4	2.2"	TS	CAS		2:29:06	+67:24:00	Dec
163	RZ	6.2	Stellar	VS	CAS		2:48:54	+69:38:00	Dec
164	Struve 320	5.8	5"	DS	CEP	colored	3:06:12	+79:24:00	Dec
165	Polaris	2	18"	DS	UMI		2:31:48	+89:16:00	Dec
166	R	6.7	*	VS	CAE		4:40:30	-38:12:00	Jan
167	Beta	3.1	*	ST	COL		5:51:00	-35:48:00	Jan
168	43	4	*	VS	ERI	red	4:24:00	-34:00:00	Jan
169	Phact	2.6	*	ST	COL		5:39:36	-34:06:00	Jan
170	Mu	5.2	*	ST	COL		5:46:00	-32:18:00	Jan
171	ADS3954	5.5	3.2"	DS	LEP		5:21:48	-24:48:00	Jan
172	M79			GC	LEP		5:24:10	-24:31:27	Jan
173	Epsilon	3.2	*	ST	LEP		5:05:30	-22:24:00	Jan
174	SAO170759			DS	LEP		5:44:28	-22:27:54	Jan
175	Gamma	3.7	97"	DS	LEP		5:44:30	-22:30:00	Jan
176	β	7.3	1.7"	DS	ERI	challenge	4:27:54	-21:30:00	Jan
177	h3750	4.7	4"	DS	LEP	magnitude	5:20:30	-21:14:00	Jan
178	Delta	3.8	*	ST	LEP		5:51:18	-20:54:00	Jan
179	54	4.3	*	VS	ERI	red	4:40:24	-19:42:00	Jan
180	S	6.2	39"	DS	LEP	equal	5:19:18	-18:30:00	Jan
181	NGC2017			MS	LEP		5:39:16	-17:51:01	Jan
182	53	3.9	*	ST	ERI		4:38:12	-14:18:00	Jan
183	Hinds	5.9	*	VS	LEP		4:59:36	-14:48:00	Jan
184	Struve 631	7.5	5.5"	DS	LEP		5:00:42	-13:30:00	Jan
185	NGC1535			PN	ERI		4:14:15	-12:44:22	Jan
186	IC418			PN	LEP		5:27:28	-12:41:50	Jan
187	Struve 655	4.5	13"	DS	LEP		5:12:18	-11:54:00	Jan
188	Saiph	2	*	ST	ORI		5:47:48	-09:42:00	Jan
189	Struve 590	6.7	9"	DS	ERI	equal	4:43:36	-08:48:00	Jan
190	Rigel	0	9.4"	DS	ORI	magnitude	5:14:30	-08:12:00	Jan
191	Struve 701	6	6"	DS	ORI		5:23:18	-08:24:00	Jan

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192	Omicron2	4.5	83"	TS	ERI	challenge	4:15:12	-07:42:00	Jan
193	46	5.7	4'	DS	ERI		4:33:54	-06:42:00	Jan
194	Struve 747	4.8	36"	DS	ORI		5:35:00	-06:00:00	Jan
195	SY	9	*	VS	ERI		5:09:48	-05:36:00	Jan
196	M42			EN	ORI		5:35:15	-05:23:25	Jan
197	Trapezium	5.1	13"	QS	ORI		5:35:18	-05:23:00	Jan
198	Struve 752	2.9	11"	DS	ORI	magnitude	5:35:24	-05:55:00	Jan
199	SAO132323			DS	ORI		5:35:25	-05:54:36	Jan
200	M43			EN	ORI		5:35:31	-05:16:03	Jan
201	NGC1973			EN	ORI		5:35:04	-04:43:55	Jan
202	NGC1977			EN	ORI		5:35:15	-04:50:40	Jan
203	NGC1975			EN	ORI		5:35:17	-04:41:07	Jan
204	Nu	3.9	11°	ST	ERI		4:36:18	-03:24:00	Jan
205	Eta	3.4	1.5"	DS	ORI	challenge	5:24:30	-02:24:00	Jan
206	Sigma	3.7	11"	QS	ORI		5:38:42	-02:36:00	Jan
207	IC434 / B33			EN	ORI		5:41:00	-02:27:14	Jan
208	Struve 725	4.7	*	ST	ORI		5:29:42	-01:06:00	Jan
209	Alnilam	1.7	*	ST	ORI		5:36:12	-01:12:00	Jan
210	Alnitak	2	2.4"	DS	ORI	magnitude	5:40:48	-01:54:00	Jan
211	Delta	2.2	53"	DS	ORI		5:32:00	-00:18:00	Jan
212	M78			RN	ORI		5:46:45	+00:04:45	Jan
213	Pi6	4.5	*	ST	ORI		4:58:30	+01:42:00	Jan
214	Struve 630	6.5	15"	DS	ORI		5:02:00	+01:36:00	Jan
215	W	8.6	*	VS	ORI		5:05:24	+01:12:00	Jan
216	Pi5	3.7	*	ST	ORI		4:54:12	+02:24:00	Jan
217	Rho	4.5	7"	DS	ORI	colored	5:13:18	+02:52:00	Jan
218	Struve 627	6.6	21"	DS	ORI	equal	5:00:36	+03:36:00	Jan
219	Struve 696	5	32"	DS	ORI		5:22:48	+03:36:00	Jan
220	Pi4	3.7	*	ST	ORI		4:51:12	+05:36:00	Jan
221	Bellatrix	1.6	*	ST	ORI		5:25:06	+06:18:00	Jan
222	Struve 795	6.1	1.3"	DS	ORI	challenge	5:48:00	+06:27:00	Jan
223	RT	8	*	VS	ORI		5:33:12	+07:12:00	Jan
224	Struve 817	8.8	19"	DS	ORI	equal	5:54:54	+07:02:00	Jan
225	Betelgeuse	0.5	Stellar	ST	ORI		5:55:12	+07:24:00	Jan
226	OStruve 98	5.9	0.7"	DS	ORI	challenge	5:07:54	+08:29:00	Jan
227	Lambda	3.4	4"	DS	ORI	magnitude	5:35:06	+09:56:00	Jan
228	Phi2	4	*	ST	ORI		5:36:54	+09:18:00	Jan
229	Lambda	3.3	*	VS	TAU		4:00:42	+12:30:00	Jan
230	Omicron2	4.1	*	ST	ORI		4:56:24	+13:30:00	Jan
231	ADS3169	7.3	1.4"	DS	TAU	challenge	4:22:42	+15:06:00	Jan
232	Mel25			OC	TAU		4:27:02	+16:00:03	Jan
233	Aldebaran	0.9	30"	DS	TAU	colored	4:35:54	+16:30:00	Jan
234	TL9	5	5°	AS	TAU		5:30:00	+17:00:00	Jan
235	Struve 559	6.9	3"	DS	TAU	equal	4:33:30	+18:01:00	Jan
236	119	4.7	*	ST	TAU		5:32:12	+18:36:00	Jan
237	T	8.4	Stellar	VS	TAU		4:22:00	+19:32:00	Jan
238	Y	7.1	*	VS	TAU		5:45:42	+20:42:00	Jan
239	U	5.3	*	VS	ORI		5:55:48	+20:12:00	Jan

<u>Gemini</u>	<u>Catalog</u>	<u>Mag.</u>	<u>Size/Sep.</u>	<u>Type</u>	<u>Const.</u>	<u>Comments</u>	<u>RA</u>	<u>Dec</u>	<u>Transit</u>
240	Zeta	3	*	ST	TAU		5:37:36	+21:06:00	Jan
241	M1			SNR	TAU		5:34:31	+22:00:52	Jan
242	Struve 528	5.5	19.4"	DS	TAU		4:22:36	+25:36:00	Jan
243	Struve 716	5.8	5"	DS	TAU		5:29:18	+25:09:00	Jan
244	Struve 572	7.3	4"	DS	TAU	equal	4:38:30	+26:56:00	Jan
245	Phi	5	52"	DS	TAU		4:20:24	+27:24:00	Jan
246	TT	8	*	VS	TAU		4:51:36	+28:30:00	Jan
247	NGC1514			PN	TAU		4:09:17	+30:46:33	Jan
248	Struve 653	5.1	11"	TS	AUR		5:15:24	+32:42:00	Jan
249	UV	7.4	*	VS	AUR		5:21:48	+32:30:00	Jan
250	M37			OC	AUR		5:52:18	+32:33:11	Jan
251	Iota	2.7	*	ST	AUR		4:57:00	+33:12:00	Jan
252	Struve 698	6.6	31"	DS	AUR		5:25:12	+34:54:00	Jan
253	M36			OC	AUR		5:36:17	+34:08:27	Jan
254	NGC1907			OC	AUR		5:28:04	+35:19:32	Jan
255	M38			OC	AUR		5:28:42	+35:51:18	Jan
256	Omega	5	5.4"	DS	AUR		4:59:18	+37:54:00	Jan
257	Struve 644	6.8	2"	DS	AUR	challenge	5:10:24	+37:17:00	Jan
258	Sigma	5	9"	DS	AUR		5:24:42	+37:24:00	Jan
259	Theta	2.6	3.5"	DS	AUR	magnitude	5:59:42	+37:13:00	Jan
260	OStruve 531	7.4	1.4"	DS	PER	challenge	4:07:36	+38:06:00	Jan
261	TX	8.5	*	VS	AUR		5:09:06	+39:00:00	Jan
262	Nu	4	30"	ST	AUR		5:51:30	+39:06:00	Jan
263	Struve 552	7	9"	DS	PER	equal	4:31:24	+40:01:00	Jan
264	Zeta	3.8	*	ST	AUR		5:02:30	+41:06:00	Jan
265	Eta	3.2	*	ST	AUR		5:06:30	+41:12:00	Jan
266	Epsilon	2.9	Stellar	VS	AUR		5:02:00	+43:49:00	Jan
267	Pi	4.3	1°	VS	AUR	red	5:59:54	+45:54:00	Jan
268	Capella	0.1	*	ST	AUR		5:16:42	+46:00:00	Jan
269	Struve 718	7.5	8"	DS	AUR	equal	5:32:24	+49:24:00	Jan
270	NGC1528			OC	PER		4:15:18	+51:12:41	Jan
271	1	5.4	10"	DS	CAM	colored	4:32:00	+53:55:00	Jan
272	Struve 485	7	90"	DS	CAM		4:07:48	+62:20:00	Jan
273	NGC1502			OC	CAM		4:07:49	+62:19:54	Jan
274	U2	7.7	*	VS	CAM		5:42:12	+62:30:00	Jan
275	ST	9.2	Stellar	VS	CAM	red	4:51:12	+68:10:00	Jan
276	Dunlop38	5.6	20.5"	DS	PUP		7:04:00	-43:36:00	Feb
277	Sigma	3.3	22"	DS	PUP		7:29:12	-43:18:00	Feb
278	NGC2477			OC	CNC		7:52:09	-38:32:00	Feb
279	Kappa	4	*	ST	CMA		6:49:48	-32:30:00	Feb
280	Zeta	3	8.5°	ST	CMA		6:20:18	-30:06:00	Feb
281	SAO172106	7.8	2.5°	VS	CMA	red	6:39:30	-30:00:00	Feb
282	Innes1156	8	0.7"	DS	CMA	challenge	6:39:06	-29:06:00	Feb
283	Epsilon	1.5	7.5"	DS	CMA		6:58:36	-29:00:00	Feb
284	Sigma	3.5	*	ST	CMA		7:01:42	-27:54:00	Feb
285	Omega	3.9	*	ST	CMA		7:14:48	-26:48:00	Feb
286	K	3.8	10"	DS	PUP	equal	7:38:48	-26:48:00	Feb
287	NGC2467			EN	PUP		7:52:29	-26:25:48	Feb

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288	Omicron1	3.9	*	ST	CMA		6:54:06	-24:12:00	Feb
289	NGC2362			OC	CMA		7:18:41	-24:57:15	Feb
290	Tau	4.4	15"	TS	CMA		7:18:42	-24:57:00	Feb
291	Omicron2	3	*	ST	CMA		7:03:00	-23:48:00	Feb
292	h3945	4.5	27"	DS	CMA	colored	7:16:36	-23:19:00	Feb
293	n	5.1	10"	DS	PUP	equal	7:34:18	-23:28:00	Feb
294	M93			OC	PUP		7:44:29	-23:51:11	Feb
295	M41			OC	CMA		6:45:59	-20:45:15	Feb
296	Mirzam	2	*	ST	CMA		6:22:42	-18:00:00	Feb
297	Nu1	6	17.5"	DS	CMA	colored	6:36:24	-18:42:00	Feb
298	Sirius	-1	9"	DS	CMA	magnitude	6:45:06	-16:42:00	Feb
299	NGC2360			OC	CMA		7:17:43	-15:38:29	Feb
300	Struve 997	5.3	2.8"	DS	CMA	magnitude	6:56:06	-14:02:00	Feb
301	M47			OC	PUP		7:36:35	-14:28:57	Feb
302	Struve 1121	7.9	7"	DS	PUP	equal	7:36:36	-14:29:00	Feb
303	M46			OC	PUP		7:41:46	-14:48:36	Feb
304	NGC2438			PN	PUP		7:41:50	-14:44:07	Feb
305	Struve 1138	6.1	17"	DS	PUP	equal	7:45:30	-14:41:00	Feb
306	NGC2359			EN	CMA		7:18:30	-13:13:38	Feb
307	Theta	4.1	*	ST	CMA		6:54:12	-12:00:00	Feb
308	W	6.4	Stellar	VS	CMA	red	7:08:06	-11:55:00	Feb
309	M50			OC	MON		7:02:27	-08:23:25	Feb
310	Beta	3.8	3"	TS	MON		6:28:48	-07:02:00	Feb
311	Gamma	4	8°	ST	MON		6:14:54	-06:18:00	Feb
312	KS	9.5	*	VS	MON		6:19:42	-05:18:00	Feb
313	Struve 987	7.1	1.3"	DS	MON	challenge	6:54:06	-05:51:00	Feb
314	NGC2232			OC	MON		6:28:01	-04:50:51	Feb
315	GY	9.4	*	VS	MON		6:53:12	-04:36:00	Feb
316	V	6	*	VS	MON		6:22:42	-02:12:00	Feb
317	NGC2301			OC	MON		6:51:45	+00:27:33	Feb
318	Struve 855	6	30"	DS	ORI		6:09:00	+02:30:00	Feb
319	Struve 1149	7.9	22"	DS	CMI		7:49:24	+03:13:00	Feb
320	8	4.3	13"	DS	MON	colored	6:23:48	+04:36:00	Feb
321	NGC2244			OC	MON		6:31:55	+04:56:35	Feb
322	NGC2237			EN	MON		6:30:54	+05:02:57	Feb
323	Struve 939	8.3	30"	DS	MON		6:35:54	+05:18:00	Feb
324	Procyon	0.4	Stellar	ST	CMI		7:39:18	+05:14:00	Feb
325	RV	7	*	VS	MON		6:58:24	+06:12:00	Feb
326	BG	9.2	*	VS	MON		6:56:24	+07:06:00	Feb
327	NGC2261			EN	MON		6:39:09	+08:44:40	Feb
328	Struve 953	7.1	7"	DS	MON		6:41:12	+08:59:00	Feb
329	Gamma	4.3	*	ST	CMI		7:28:12	+08:54:00	Feb
330	NGC2264			OC	MON		6:40:58	+09:53:44	Feb
331	NGC2194			OC	TAU		6:13:45	+12:48:24	Feb
332	South529	7.6	70"	DS	GEM		6:37:36	+12:12:00	Feb
333	NGC2169			OC	ORI		6:08:24	+13:57:53	Feb
334	38	4.7	7"	DS	GEM	colored	6:54:36	+13:11:00	Feb
335	BL	8.5	*	VS	ORI		6:25:30	+14:42:00	Feb

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336	OStruve 80	7.3	2'	AS	GEM		6:58:06	+14:12:00	Feb
337	CR	8.5	*	VS	GEM		6:34:24	+16:06:00	Feb
338	Struve 924	6.3	20"	DS	GEM	colored	6:32:18	+17:48:00	Feb
339	NGC2174			EN	GEM		6:09:23	+20:39:34	Feb
340	15	6.6	27"	DS	GEM		6:27:48	+20:47:00	Feb
341	Mekbuda	3.7	*	VS	GEM		7:04:06	+20:36:00	Feb
342	NGC2392			PN	GEM		7:29:10	+20:54:43	Feb
343	Delta	3.5	6"	DS	GEM	magnitude	7:20:06	+21:59:00	Feb
344	Propus	3.3	*	ST	GEM		6:14:54	+22:30:00	Feb
345	Mu	2.9	*	ST	GEM		6:23:00	+22:30:00	Feb
346	R	6	*	VS	GEM		7:07:24	+22:42:00	Feb
347	Struve 1035	8.2	4"	DS	GEM	equal	7:12:00	+22:17:00	Feb
348	U	8.2	Stellar	VS	GEM		7:55:06	+22:00:00	Feb
349	NGC2158			OC	GEM		6:07:25	+24:05:46	Feb
350	M35			OC	GEM		6:08:12	+24:21:31	Feb
351	OStruve 179	3.7	7"	DS	GEM	magnitude	7:44:24	+24:23:00	Feb
352	TU	7.5	*	VS	GEM		6:10:54	+26:00:00	Feb
353	NGC2266			OC	GEM		6:43:19	+26:58:10	Feb
354	Upsilon	4.1	2.5°	VS	GEM	red	7:35:54	+26:54:00	Feb
355	Struve 1037	7.2	1.3"	DS	GEM	challenge	7:12:48	+27:12:00	Feb
356	Tau	4.4	1.9"	DS	GEM		7:11:06	+30:12:00	Feb
357	VW	8.7	*	VS	GEM		6:42:12	+31:30:00	Feb
358	Castor	2	1.8"	DS	GEM	challenge	7:34:36	+31:54:00	Feb
359	Struve 872	6.9	11"	DS	AUR		6:15:36	+36:12:00	Feb
360	ADS5201	7.4	2.6"	DS	AUR		6:35:06	+37:06:00	Feb
361	Struve 929	7.4	6"	DS	AUR		6:35:24	+37:42:00	Feb
362	ADS5150	11.5	4.5"	DS	AUR		6:31:48	+38:54:00	Feb
363	ADS5188	6.7	43"	DS	AUR		6:34:18	+38:06:00	Feb
364	Struve 928	7.6	3.5"	DS	AUR		6:34:42	+38:24:00	Feb
365	ADS5221	8.5	1.3"	DS	AUR	challenge	6:36:12	+38:00:00	Feb
366	UU	5.1	*	VS	AUR		6:36:30	+38:30:00	Feb
367	ADS5240	9.7	2.2"	DS	AUR		6:36:54	+38:12:00	Feb
368	ADS5245	8.8	10"	DS	AUR		6:37:18	+38:24:00	Feb
369	ADS5265	9.6	4.6"	DS	AUR		6:38:24	+38:48:00	Feb
370	SS	10	*	VS	AUR		6:13:24	+47:00:00	Feb
371	Struve 845	6.1	8"	DS	AUR		6:11:42	+48:42:00	Feb
372	Struve 1093	8.8	0.8"	DS	LYN	challenge	7:30:18	+50:00:00	Feb
373	Struve 1009	6.9	4.1"	DS	LYN	equal	7:05:42	+52:45:00	Feb
374	Struve 958	5.5	5"	DS	LYN	equal	6:48:12	+55:42:00	Feb
375	Struve 1062	5.6	15"	TS	LYN		7:22:54	+55:17:00	Feb
376	Struve 948	4.9	2"	TS	LYN	challenge	6:46:12	+59:27:00	Feb
377	Struve 963	5.7	0.4"	DS	LYN	challenge	6:53:06	+59:30:00	Feb
378	Struve 1127	7	5"	TS	CAM		7:47:00	+64:03:00	Feb
379	NGC2403			GX	CAM		7:36:50	+65:36:04	Feb
380	Gamma	1.9	41"	DS	VEL		8:09:30	-47:18:00	Mar
381	Dunlop76	7.8	61"	DS	VEL		9:28:36	-45:30:00	Mar
382	□70	5	5"	DS	VEL		8:29:30	-44:44:00	Mar
383	Suhail	2.2	Stellar	ST	VEL		9:08:00	-43:26:00	Mar



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384	h4188	6.7	2.7'	DS	VEL		9:12:30	-43:36:00	Mar
385	h4191	5.2	6"	DS	VEL	magnitude	9:14:24	-43:13:00	Mar
386	Naos	2.3	4°	ST	PUP		8:03:36	-40:00:00	Mar
387	h4903	6.5	8"	DS	PUP		8:26:18	-39:06:00	Mar
388	h4107	6.4	4"	TS	VEL		8:31:24	-39:04:00	Mar
389	RT	8.5	*	VS	PUP		8:05:24	-38:48:00	Mar
390	Alpha	3.7	*	ST	PYX		8:43:36	-33:12:00	Mar
391	Zeta	5.8	8"	DS	ANT		9:30:48	-31:53:00	Mar
392	Y	8.3	*	VS	HYA		9:51:06	-23:00:00	Mar
393	RU	8.9	*	VS	PUP		8:07:30	-22:54:00	Mar
394	AC	8.9	*	VS	PUP		8:22:42	-15:54:00	Mar
395	NGC2539			OC	PUP		8:10:36	-12:49:14	Mar
396	h4262	8.7	8"	DS	HYA		9:54:30	-12:54:00	Mar
397	Alphard	2	Stellar	ST	HYA		9:27:36	-08:40:00	Mar
398	M48			OC	HYA		8:13:43	-05:45:02	Mar
399	Struve 1270	6.4	5"	DS	HYA		8:45:18	-02:36:00	Mar
400	W	9	*	VS	SEX		9:51:00	-02:00:00	Mar
401	Iota	3.9	*	ST	HYA		9:39:54	-01:06:00	Mar
402	Sigma	4.4	*	ST	HYA		8:38:48	+03:18:00	Mar
403	Struve 1347	7.2	21"	DS	HYA		9:23:18	+03:30:00	Mar
404	Struve 1245	6	10"	DS	CNC		8:35:48	+06:37:00	Mar
405	Epsilon	3.4	3"	DS	HYD	magnitude	8:46:48	+06:25:00	Mar
406	Struve 1355	7.5	2.3"	DS	HYA	equal	9:27:18	+06:14:00	Mar
407	Beta	3.5	*	ST	CNC		8:16:30	+09:12:00	Mar
408	VZCancri			VS	CNC		8:40:54	+09:49:00	Mar
409	Struve 1356	5.9	0.5"	DS	LEO	challenge	9:28:30	+09:06:00	Mar
410	Struve 1360	8.3	14"	DS	LEO	equal	9:30:36	+10:35:00	Mar
411	R	6.1	*	VS	CNC		8:16:36	+11:42:00	Mar
412	M67			OC	CNC		8:50:50	+11:48:45	Mar
413	R	4.4	Stellar	VS	LEO	red	9:47:36	+11:26:00	Mar
414	Zeta	4.7	0.6"	TS	CNC	challenge	8:12:12	+17:39:00	Mar
415	X	5.6	*	VS	CNC		8:55:24	+17:12:00	Mar
416	M44			OC	CNC		8:39:57	+19:40:21	Mar
417	Struve 1254	6.4	21"	QS	CNC		8:40:24	+19:40:00	Mar
418	NGC2903			GX	LEO		9:32:09	+21:29:55	Mar
419	Struve 1311	6.9	8"	DS	CNC	equal	9:07:30	+22:59:00	Mar
420	Alterf	4.3	*	ST	LEO		9:31:42	+23:00:00	Mar
421	Struve 1224	7.1	6"	DS	CNC		8:26:42	+24:32:00	Mar
422	Struve 1223	6.3	5"	DS	CNC	equal	8:26:42	+26:56:00	Mar
423	Kappa	4.5	2.1"	TS	LEO		9:24:42	+26:12:00	Mar
424	Rasalas	3.9	*	ST	LEO		9:52:48	+26:00:00	Mar
425	Struve1266			DS	CNC		8:44:24	+28:27:00	Mar
426	Struve 1268	4	30"	DS	CNC	colored	8:46:42	+28:46:00	Mar
427	SAO061125			DS	CNC		8:54:14	+30:34:46	Mar
428	SAO061146			ST	CNC		8:56:56	+32:54:37	Mar
429	Struve 1298	5.9	5"	DS	CNC		9:01:24	+32:15:00	Mar
430	Alpha	3.1	*	ST	LYN		9:21:06	+34:24:00	Mar
431	Struve 1282	7.5	4"	DS	LYN	equal	8:50:48	+35:03:00	Mar

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432	Struve 1334	3.9	3"	DS	LYN	challenge	9:18:48	+36:48:00	Mar
433	Struve 1338	6.6	1"	DS	LYN	challenge	9:21:00	+38:11:00	Mar
434	Struve 1369	6.5	25"	DS	LYN		9:35:24	+40:00:00	Mar
435	31	4.3	15°	ST	LYN		8:22:48	+43:12:00	Mar
436	NGC2841			GX	UMA		9:22:02	+50:58:33	Mar
437	RT	8.6	*	VS	UMA		9:18:24	+51:24:00	Mar
438	Struve 1321	8.1	18"	DS	UMA	equal	9:14:54	+52:42:00	Mar
439	S-h86	6	49"	DS	CAM		8:02:30	+63:06:00	Mar
440	Struve 1351	3.8	23"	DS	UMA	magnitude	9:31:30	+63:03:00	Mar
441	Rho	4.8	1°	ST	UMA		9:02:30	+67:36:00	Mar
442	Sigma2	4.8	4"	DS	UMA	magnitude	9:10:24	+67:08:00	Mar
443	M81			GX	UMA		9:55:33	+69:04:00	Mar
444	M82			GX	UMA		9:55:54	+69:40:57	Mar
445	NGC3132			PN	VEL		10:07:01	-40:26:12	Apr
446	Innes78	6	1"	DS	CEN	challenge	11:33:36	-40:36:00	Apr
447	U	8.1	*	VS	ANT		10:35:12	-39:36:00	Apr
448	Beta	4.7	0.9"	DS	HYA	colored	11:52:54	-33:54:00	Apr
449	Alpha	4.3	*	ST	ANT		10:27:12	-31:06:00	Apr
450	Delta	5.7	11"	DS	ANT	magnitude	10:29:36	-30:36:00	Apr
451	N	5.8	9"	DS	HYD	equal	11:32:18	-29:16:00	Apr
452	NGC3242			PN	HYA		10:24:46	-18:38:33	Apr
453	Mu	3.8	*	ST	HYA		10:26:06	-16:48:00	Apr
454	Nu	3.1	*	ST	HYA		10:49:36	-16:12:00	Apr
455	U	7	*	VS	HYA		10:37:36	-13:24:00	Apr
456	NGC3115			GX	SEX		10:05:14	-07:43:07	Apr
457	Struve 1476	6.9	2.5"	DS	SEX		10:49:18	-04:01:00	Apr
458	Struve 1529	7	10"	DS	LEO		11:19:24	-01:38:00	Apr
459	Tau	5.5	1.5"	DS	LEO		11:27:54	+02:54:00	Apr
460	Struve 1540	6.2	29"	TS	LEO		11:26:48	+03:00:00	Apr
461	Struve 1466	6.3	7"	DS	SEX		10:43:24	+04:44:00	Apr
462	Nu	4	*	ST	VIR		11:45:54	+06:30:00	Apr
463	49	5.7	2"	DS	LEO	challenge	10:35:00	+08:39:00	Apr
464	45	6	3.8"	DS	LEO		10:27:36	+09:48:00	Apr
465	Rho	3.9	*	ST	LEO		10:32:48	+09:18:00	Apr
466	Iota	4	1.3"	DS	LEO	challenge	11:23:54	+10:30:00	Apr
467	Regulus	1.4	Stellar	ST	LEO		10:08:24	+11:58:00	Apr
468	M95			GX	LEO		10:43:57	+11:42:10	Apr
469	M96			GX	LEO		10:46:45	+11:49:10	Apr
470	M105			GX	LEO		10:47:49	+12:34:50	Apr
471	M66			GX	LEO		11:20:14	+12:59:34	Apr
472	M65			GX	LEO		11:18:55	+13:05:25	Apr
473	NGC3628			GX	LEO		11:20:16	+13:35:22	Apr
474	88	6.4	16"	DS	LEO		11:31:48	+14:21:00	Apr
475	Denebola	2.1	Stellar	ST	LEO		11:49:06	+14:34:00	Apr
476	Struve 1552	6	3"	TS	LEO		11:34:42	+16:48:00	Apr
477	ADS7704	7.2	1.4"	DS	LEO	challenge	10:16:18	+17:42:00	Apr
478	Algieba	2.5	4.4"	DS	LEO		10:20:00	+19:48:00	Apr
479	OStruve 112	8.4	73"	DS	LEO		11:54:36	+19:24:00	Apr

<u>Gemini</u>	<u>Catalog</u>	<u>Mag.</u>	<u>Size/Sep.</u>	<u>Type</u>	<u>Const.</u>	<u>Comments</u>	<u>RA</u>	<u>Dec</u>	<u>Transit</u>
480	Adhafera	3.4	5.5'	DS	LEO		10:16:42	+23:24:00	Apr
481	54	4.5	6.8"	DS	LEO		10:55:36	+24:48:00	Apr
482	SAO081583			DS	LEO		10:55:37	+24:45:59	Apr
483	SAO062484			DS	UMA		11:18:10	+31:31:45	Apr
484	Xi	4.5	1.3"	DS	UMA	challenge	11:18:12	+31:30:00	Apr
485	Alula	3.5	7"	DS	UMA		11:18:30	+33:06:00	Apr
486	Tania	3	*	ST	UMA		10:22:18	+41:30:00	Apr
487	Struve 1579	6.7	4"	DS	UMA		11:55:06	+46:29:00	Apr
488	NGC3877			GX	UMA		11:46:07	+47:29:38	Apr
489	M109			GX	UMA		11:57:35	+53:22:23	Apr
490	M108			GX	UMA		11:11:29	+55:40:20	Apr
491	M97			PN	UMA		11:14:47	+55:01:08	Apr
492	VY	5.9	*	VS	UMA		10:45:06	+67:24:00	Apr
493	R	7.5	*	VS	UMA		10:44:36	+68:48:00	Apr
494	Giausar	3.8	20'	VS	DRA	red	11:31:24	+69:18:00	Apr
495	NGC5139			GC	CEN		13:26:45	-47:28:37	May
496	Zeta	2.6	5°	ST	CEN		13:55:30	-47:18:00	May
497	Rumker14	5.6	2.9"	DS	CEN		12:14:00	-45:42:00	May
498	NGC5128			GX	CEN		13:25:29	-43:01:00	May
499	2	4.2	*	ST	CEN		13:49:24	-34:30:00	May
500	T	5.5	*	VS	CEN		13:41:48	-33:36:00	May
501	3	4.5	8"	DS	CEN		13:51:48	-33:00:00	May
502	M83			GX	HYA		13:37:00	-29:52:04	May
503	ADS8612	5.5	1.3"	DS	HYA	challenge	12:37:42	-27:06:00	May
504	M68			GC	HYA		12:39:28	-26:44:34	May
505	R	4	Stellar	VS	HYD		13:29:42	-23:17:00	May
506	Epsilon	3	*	ST	CRV		12:10:06	-22:36:00	May
507	R	6.7	*	VS	CRV		12:19:36	-19:18:00	May
508	NGC4038			GX	COR		12:01:52	-18:51:54	May
509	NGC4039			GX	COR		12:01:53	-18:53:10	May
510	NGC4361			PN	COR		12:24:30	-18:47:05	May
511	54	6.8	5"	DS	VIR		13:13:24	-18:50:00	May
512	Algorab	3	24"	DS	CRV		12:29:54	-16:30:00	May
513	Struve 1669	5.3	5"	DS	CRV	equal	12:41:18	-13:01:00	May
514	Struve 1604	6.6	10"	TS	CRV		12:09:30	-11:51:00	May
515	Struve 1649	8	15"	DS	VIR		12:31:36	-11:06:00	May
516	M104			GX	VIR		12:39:59	-11:37:23	May
517	Spica	1	*	ST	VIR		13:25:12	-11:12:00	May
518	S	6	*	VS	VIR		13:33:00	-07:12:00	May
519	Struve 1763	7.9	2.8"	DS	VIR		13:37:36	-07:54:00	May
520	Struve 1724	4.4	7"	TS	VIR	challenge	13:09:54	-05:32:00	May
521	Struve 1627	6.6	20"	DS	VIR	equal	12:18:06	-03:56:00	May
522	Struve 1593	8.7	1.3"	DS	VIR	challenge	12:03:30	-02:26:00	May
523	Porrima	3.5	3"	DS	VIR		12:41:42	-01:24:00	May
524	SS	6	Stellar	VS	VIR	red	12:25:18	+00:48:00	May
525	3C273	12.8	*	AS	VIR		12:29:06	+02:00:00	May
526	Delta	3.4	*	VS	VIR	red	12:55:36	+03:24:00	May
527	M61			GX	VIR		12:21:54	+04:28:20	May

<u>Gemini</u>	<u>Catalog</u>	<u>Mag.</u>	<u>Size/Sep.</u>	<u>Type</u>	<u>Const.</u>	<u>Comments</u>	<u>RA</u>	<u>Dec</u>	<u>Transit</u>
528	17	6.5	21"	DS	VIR		12:22:30	+05:18:00	May
529	M49			GX	VIR		12:29:46	+07:59:58	May
530	NGC4526			GX	VIR		12:34:02	+07:41:54	May
531	NGC4567			GX	VIR		12:36:32	+11:15:26	May
532	NGC4568			GX	VIR		12:36:34	+11:14:17	May
533	M58			GX	VIR		12:37:43	+11:49:04	May
534	M59			GX	VIR		12:42:02	+11:38:48	May
535	M60			GX	VIR		12:43:39	+11:33:09	May
536	M84			GX	VIR		12:25:03	+12:53:11	May
537	Markarian			OC	VIR		12:25:04	+12:53:16	May
538	M86			GX	VIR		12:26:11	+12:56:45	May
539	M87			GX	VIR		12:30:49	+12:23:24	May
540	M89			GX	VIR		12:35:39	+12:33:20	May
541	M90			GX	VIR		12:36:50	+13:09:48	May
542	M98			GX	COM		12:13:47	+14:53:56	May
543	M99			GX	COM		12:18:49	+14:25:01	May
544	M88			GX	COM		12:31:59	+14:25:09	May
545	M91			GX	COM		12:35:26	+14:29:45	May
546	M100			GX	COM		12:22:54	+15:49:20	May
547	Upsilon	4.1	*	ST	BOO		13:49:30	+15:48:00	May
548	Alpha	5	0.5"	DS	COM	challenge	13:10:00	+17:32:00	May
549	M85			GX	COM		12:25:23	+18:11:25	May
550	24	5	20"	DS	CVN	colored	12:35:06	+18:23:00	May
551	M53			GC	COM		13:12:55	+18:10:09	May
552	Struve 1772	5.7	5"	DS	BOO	magnitude	13:40:42	+19:57:00	May
553	Zeta	6	3.6"	DS	COM		12:04:18	+21:30:00	May
554	Struve 1687	5.1	29"	DS	COM	magnitude	12:53:18	+21:14:00	May
555	M64			GX	COM		12:56:43	+21:40:57	May
556	Struve 1639	6.8	1.6"	DS	COM	challenge	12:24:24	+25:36:00	May
557	NGC4565			GX	COM		12:36:20	+25:59:14	May
558	Melotte111			OC	COM		12:25:00	+26:00:07	May
559	Struve 1633	6.3	9"	DS	COM	equal	12:20:36	+27:03:00	May
560	Struve 1699	8.8	1.5"	DS	COM	challenge	12:58:42	+27:28:00	May
561	Abell1656			OC	COM		12:59:48	+27:59:04	May
562	Struve 1785	7.6	3.4"	DS	BOO		13:49:06	+27:00:00	May
563	M3			GC	CVN		13:42:11	+28:22:32	May
564	NGC4631			GX	CVN		12:42:07	+32:32:28	May
565	NGC4656			GX	CVN		12:43:58	+32:10:09	May
566	Struve 1755	7	4.4"	DS	CVN		13:32:18	+36:48:00	May
567	25	5	1.8"	DS	CVN	magnitude	13:37:30	+36:18:00	May
568	NGC4244			GX	CVN		12:17:29	+37:48:26	May
569	Cor	3	19"	DS	CVN		12:56:00	+38:18:00	May
570	Struve1702			DS	CVN		12:58:30	+38:17:00	May
571	2	6	11.5"	DS	CVN	colored	12:16:06	+40:42:00	May
572	M94			GX	CVN		12:50:53	+41:07:15	May
573	M63			GX	CVN		13:15:49	+42:01:57	May
574	Y	7.4	Stellar	VS	CVN	red	12:45:06	+45:26:00	May
575	M106			GX	CVN		12:18:57	+47:18:23	May

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576	M51			GX	CVN		13:29:52	+47:11:42	May
577	Alkaid	1.9	*	ST	UMA		13:47:30	+49:18:00	May
578	Mizar	2.3	14"	DS	UMA		13:23:54	+54:56:00	May
579	SAO028751			DS	UMA		13:25:13	+54:59:17	May
580	M40			DS	UMA		12:22:24	+58:05:00	May
581	M40	9	50"	DS	UMA		12:22:24	+58:05:00	May
582	OStruve Struve 123	6.7	69"	DS	DRA	colored	13:27:06	+64:43:00	May
583	RY	6.8	*	VS	DRA		12:56:24	+66:00:00	May
584	Struve 1694	5.3	22"	DS	CAM	equal	12:49:12	+83:25:00	May
585	Alpha	2.3	*	ST	LUP		14:41:54	-47:24:00	Jun
586	h4690	5.4	19"	DS	LUP	magnitude	14:37:18	-46:08:00	Jun
587	Dunlop178	6.7	32"	DS	LUP		15:11:36	-45:18:00	Jun
588	h4788	4.7	2.2"	DS	LUP		15:35:54	-45:00:00	Jun
589	Beta	2.6	*	ST	LUP		14:58:30	-43:06:00	Jun
590	Omega	4.3	*	VS	LUP	red	15:38:06	-42:36:00	Jun
591	Gamma	2.8	*	ST	LUP		15:35:06	-41:12:00	Jun
592	q	4	*	ST	CEN		14:42:00	-37:48:00	Jun
593	Phi1	3.6	50'	ST	LUP		15:21:48	-36:18:00	Jun
594	c1	4	17'	ST	CEN		14:43:42	-35:12:00	Jun
595	Xi	5.2	10"	DS	LUP		15:56:54	-33:58:00	Jun
596	Tau	3.7	2°	ST	LIB		15:38:42	-29:48:00	Jun
597	Rho	3.9	*	ST	SCO		15:56:54	-29:12:00	Jun
598	58	4.4	*	ST	HYA		14:50:18	-28:00:00	Jun
599	Upsilon	3.6	3"	DS	LIB	colored	15:37:00	-28:06:00	Jun
600	Pi	3.3	*	ST	HYA		14:06:24	-26:42:00	Jun
601	Pi	2.9	*	ST	SCO		15:58:54	-26:06:00	Jun
602	54	5.2	8"	DS	HYA		14:46:00	-25:26:00	Jun
603	Sigma	3.2	*	VS	LIB	red	15:04:06	-25:18:00	Jun
604	Lal123	7.5	9"	DS	LIB	equal	15:33:06	-24:29:00	Jun
605	33	5.9	23"	DS	LIB		14:57:18	-21:22:00	Jun
606	SHJ	6.4	35"	DS	LIB		14:25:30	-19:58:00	Jun
607	Zubenelgenubi	2.8	4'	DS	LIB		14:50:54	-16:00:00	Jun
608	Mu	5.4	2"	DS	LIB	challenge	14:49:18	-14:09:00	Jun
609	Kappa	4.2	*	ST	VIR		14:12:54	-10:18:00	Jun
610	Struve 1962	5.8	12"	DS	LIB	equal	15:38:42	-08:47:00	Jun
611	Struve 1833	7.6	6"	DS	VIR	equal	14:22:36	-07:46:00	Jun
612	NGC5746			GX	VIR		14:44:55	+01:57:20	Jun
613	M5			GC	SER		15:18:33	+02:04:58	Jun
614	Struve 1819	7.8	0.8"	DS	VIR	challenge	14:15:18	+03:08:00	Jun
615	Struve 1883	7.6	0.7"	DS	VIR	challenge	14:48:54	+05:57:00	Jun
616	Unukalhai	2.7	*	ST	SER		15:44:18	+06:24:00	Jun
617	Struve 1835	5.1	6"	DS	BOO		14:23:24	+08:26:00	Jun
618	Struve 1931	7	13"	DS	SER		15:18:42	+10:26:00	Jun
619	Struve 1954	4	3.9"	DS	SER		15:34:48	+10:30:00	Jun
620	Zeta	3.8	1"	DS	BOO	challenge	14:41:06	+13:44:00	Jun
621	R	5.2	*	VS	SER		15:50:42	+15:06:00	Jun
622	Struve 1864	4.9	6"	DS	BOO		14:40:42	+16:25:00	Jun
623	Pi	5	5.6"	DS	BOO		14:40:42	+16:24:00	Jun

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624	Kappa	4.1	*	VS	SER	red	15:48:42	+18:06:00	Jun
625	Arcturus	0	Stellar	ST	BOO		14:15:42	+19:11:00	Jun
626	Xi	4.6	7"	DS	BOO	colored	14:51:24	+19:06:00	Jun
627	T	2	Stellar	VS	CRB		15:59:30	+25:55:00	Jun
628	Struve 1932	6.6	1.5"	DS	CRB	challenge	15:18:18	+26:50:00	Jun
629	Struve 1967	4.2	0.3"	DS	CRB	challenge	15:42:42	+26:18:00	Jun
630	Epsilon	4.2	*	ST	CRB		15:57:36	+26:54:00	Jun
631	Izar	2.4	3"	DS	BOO	colored	14:45:00	+27:04:00	Jun
632	R	5.7	Stellar	VS	CRB		15:48:36	+28:09:00	Jun
633	Rho	3.6	*	ST	BOO		14:31:48	+30:24:00	Jun
634	Eta	5.6	1.0"	DS	CRB	challenge	15:23:12	+30:17:00	Jun
635	S	5.8	*	VS	CRB		15:21:24	+31:24:00	Jun
636	Struve 1965	5	6.3"	DS	CRB		15:39:24	+36:36:00	Jun
637	Mu	4.3	2"	TS	BOO		15:24:30	+37:23:00	Jun
638	44	4.8	1.5"	DS	BOO	challenge	15:03:48	+47:39:00	Jun
639	Struve 1834	8.1	1.3"	DS	BOO	challenge	14:20:18	+48:30:00	Jun
640	39	5.7	3"	DS	BOO		14:49:42	+48:43:00	Jun
641	Kappa	4.4	13"	DS	BOO	colored	14:13:30	+51:47:00	Jun
642	Iota	4.9	39"	DS	BOO		14:16:12	+51:24:00	Jun
643	M101			GX	UMA		14:03:12	+54:20:56	Jun
644	M102			GX	DRA		15:06:29	+55:45:47	Jun
645	NGC5907			GX	DRA		15:15:53	+56:19:47	Jun
646	Edasich	3.3	*	ST	DRA		15:24:54	+59:00:00	Jun
647	Kochab	2.1	*	ST	UMI		14:50:42	+74:12:00	Jun
648	5	4.3	*	ST	UMI		14:27:30	+75:42:00	Jun
649	Struve 1972	6.9	31"	DS	UMI		15:29:12	+80:26:00	Jun
650	h4949	6	2.2"	DS	ARA		17:26:54	-45:54:00	Jul
651	NGC6388			GC	SCO		17:36:17	-44:44:06	Jul
652	NGC6231			OC	SCO		16:54:10	-41:49:27	Jul
653	Kappa	2.4	2.5°	ST	SCO		17:42:30	-39:00:00	Jul
654	Eta	3.6	15"	DS	LUP	magnitude	16:00:06	-38:24:00	Jul
655	Mu	3	*	ST	SCO		16:52:18	-38:00:00	Jul
656	NGC6281			OC	SCO		17:04:41	-37:59:07	Jul
657	Lesath	2.7	*	ST	SCO		17:30:48	-37:18:00	Jul
658	Shaula	1.6	35'	ST	SCO		17:33:36	-37:06:00	Jul
659	G	3.2	2°	ST	SCO		17:49:54	-37:00:00	Jul
660	H	4.2	*	ST	SCO		16:36:24	-35:18:00	Jul
661	SX	8.5	*	VS	SCO		17:47:30	-35:42:00	Jul
662	Epsilon	2.3	*	ST	SCO		16:50:12	-34:18:00	Jul
663	M7			OC	SCO		17:53:51	-34:47:34	Jul
664	SU	8	*	VS	SCO		16:40:36	-32:24:00	Jul
665	M6			OC	SCO		17:40:20	-32:15:15	Jul
666	RR	5.1	*	VS	SCO		16:56:36	-30:36:00	Jul
667	M62			GC	OPH		17:01:12	-30:06:44	Jul
668	h5003	5	6"	DS	SGR	colored	17:59:06	-30:15:00	Jul
669	M4			GC	SCO		16:23:35	-26:31:31	Jul
670	Antares	1	3"	DS	SCO	challenge	16:29:24	-26:24:00	Jul
671	M19			GC	OPH		17:02:37	-26:16:05	Jul

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672	36	4.3	5"	DS	OPH	equal	17:15:18	-26:36:00	Jul
673	B59			DN	OPH		17:21:02	-26:59:58	Jul
674	Sigma	2.9	20"	DS	SCO	magnitude	16:21:12	-25:35:00	Jul
675	Theta	3.3	*	ST	OPH		17:22:00	-25:00:00	Jul
676	B78			DN	OPH		17:33:02	-25:59:58	Jul
677	39	5.2	10"	DS	OPH	colored	17:18:00	-24:17:00	Jul
678	Rho	5.3	3.1"	DS	OPH		16:25:36	-23:30:00	Jul
679	NGC6369			PN	OPH		17:29:20	-23:45:35	Jul
680	Delta	2.3	*	ST	SCO		16:00:18	-22:36:00	Jul
681	M80			GC	SCO		16:17:02	-22:58:30	Jul
682	Omega1	4	14'	ST	SCO		16:06:48	-20:42:00	Jul
683	Graffias	2.5	*	ST	SCO		16:05:24	-19:48:00	Jul
684	Nu	4	1"	QS	SCO		16:12:00	-19:28:00	Jul
685	M9			GC	OPH		17:19:11	-18:30:59	Jul
686	SZ	9	*	VS	SGR		17:45:00	-18:36:00	Jul
687	M23			OC	SGR		17:57:04	-18:59:07	Jul
688	Sabik	2.4	0.6"	DS	OPH	challenge	17:10:24	-15:42:00	Jul
689	M107			GC	OPH		16:32:31	-13:03:13	Jul
690	V	7.3	*	VS	OPH		16:26:42	-12:24:00	Jul
691	Xi	4.2	1"	TS	SCO	challenge	16:04:24	-11:22:00	Jul
692	Zeta	2.6	*	ST	OPH		16:37:12	-10:36:00	Jul
693	Y	6	*	VS	OPH		17:52:36	-06:12:00	Jul
694	M10			GC	OPH		16:57:08	-04:05:58	Jul
695	Yed	2.7	*	ST	OPH		16:14:18	-03:42:00	Jul
696	M14			GC	OPH		17:37:36	-03:14:45	Jul
697	M12			GC	OPH		16:47:14	-01:56:52	Jul
698	Struve 2173	6	1.1"	DS	OPH	challenge	17:30:24	-01:04:00	Jul
699	Lambda	4.2	1.4"	DS	OPH	challenge	16:30:54	+02:00:00	Jul
700	Struve 2202	6.2	21"	DS	OPH	equal	17:44:36	+02:34:00	Jul
701	Sigma	4.3	4°	ST	OPH		17:26:30	+04:06:00	Jul
702	Cebalrai	2.8	*	ST	OPH		17:43:30	+04:36:00	Jul
703	Barnards	9.5	Stellar	ST	OPH		17:57:48	+04:34:00	Jul
704	IC4665			OC	OPH		17:46:18	+05:43:00	Jul
705	Kappa	3.2	75'	ST	OPH		16:57:42	+09:24:00	Jul
706	Rasalhague	2.1	*	ST	OPH		17:34:54	+12:34:00	Jul
707	Rasalgethi	3	4.6"	DS	HER	equal	17:14:36	+14:24:00	Jul
708	Kappa	5	28"	DS	HER	colored	16:08:06	+17:03:00	Jul
709	Struve 2052	7.7	1.7"	DS	HER		16:28:54	+18:24:00	Jul
710	NGC6210			PN	HER		16:44:29	+23:48:00	Jul
711	Delta	3.2	10"	DS	HER	magnitude	17:15:00	+24:50:00	Jul
712	Lambda	4.4	*	ST	HER		17:30:42	+26:06:00	Jul
713	Zeta	3	1.4"	DS	HER	colored	16:41:18	+31:36:00	Jul
714	Struve 2032	5.2	7"	DS	CRB		16:14:42	+33:52:00	Jul
715	M13			GC	HER		16:41:41	+36:27:37	Jul
716	Pi	3.2	7°	ST	HER		17:15:00	+36:48:00	Jul
717	Struve 2161	4.2	4"	DS	HER		17:23:42	+37:09:00	Jul
718	M92			GC	HER		17:17:07	+43:08:11	Jul
719	Iota	3.8	*	ST	HER		17:39:30	+46:00:00	Jul

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720	Eltanin	2.2	*	ST	DRA		17:56:36	+51:30:00	Jul
721	16	5.1	3"	TS	DRA		16:36:12	+52:55:00	Jul
722	Mu	4.9	2"	DS	DRA	equal	17:05:18	+54:28:00	Jul
723	Nu	4.9	62"	DS	DRA	equal	17:32:12	+55:11:00	Jul
724	Grumium	3.8	*	ST	DRA		17:53:30	+56:54:00	Jul
725	Struve 2118	7.1	1.4"	DS	DRA	challenge	16:56:24	+65:00:00	Jul
726	R	6.7	*	VS	DRA		16:32:42	+66:48:00	Jul
727	NGC6543			PN	DRA		17:58:33	+66:37:59	Jul
728	Struve 2241	4.9	30"	DS	DRA		17:41:54	+72:09:00	Jul
729	Alpha	3.5	6'	ST	TEL		18:27:00	-46:00:00	Aug
730	Delta	5	11'	DS	TEL		18:31:48	-45:54:00	Aug
731	RU	6	*	VS	SGR		19:58:42	-41:54:00	Aug
732	□222	5.9	21"	DS	CRA	equal	18:33:24	-38:44:00	Aug
733	BrsO14	6.6	13"	DS	CRA	equal	19:01:06	-37:03:00	Aug
734	Gamma	5	3"	DS	AQL	equal	19:06:24	-37:00:00	Aug
735	Eta	3.1	*	ST	SGR		18:17:36	-36:48:00	Aug
736	RY	6	*	VS	SGR		19:16:30	-33:30:00	Aug
737	M69			GC	SGR		18:31:23	-32:20:53	Aug
738	M70			GC	SGR		18:43:12	-32:17:31	Aug
739	M54			GC	SGR		18:55:03	-30:28:42	Aug
740	M55			GC	SGR		19:39:59	-30:57:44	Aug
741	Kaus	2.7	*	ST	SGR		18:21:00	-29:48:00	Aug
742	Ascella			DS	SGR		19:02:36	-29:53:00	Aug
743	RR	5.4	*	VS	SGR		19:55:54	-29:12:00	Aug
744	Nunki	2	*	ST	SGR		18:55:18	-26:18:00	Aug
745	Kaus	2.8	*	ST	SGR		18:28:00	-25:24:00	Aug
746	M8			EN	SGR		18:03:41	-24:22:49	Aug
747	M28			GC	SGR		18:24:32	-24:52:12	Aug
748	M22			GC	SGR		18:36:24	-23:54:12	Aug
749	M20			EN	SGR		18:02:42	-22:58:19	Aug
750	M21			OC	SGR		18:04:13	-22:29:24	Aug
751	21	4.9	1.8"	DS	SGR	challenge	18:25:18	-20:30:00	Aug
752	M25			OC	SGR		18:31:36	-19:15:00	Aug
753	h5082	6	7"	TS	SGR		19:03:06	-19:14:00	Aug
754	M24			OC	SGR		18:18:26	-18:24:22	Aug
755	M18			OC	SGR		18:19:54	-17:08:00	Aug
756	M17			EN	SGR		18:20:48	-16:11:00	Aug
757	SS	9	*	VS	SGR		18:30:24	-16:54:00	Aug
758	AQ	9.1	*	VS	SGR		19:34:18	-16:24:00	Aug
759	54	5.4	38"	DS	SGR		19:40:42	-16:18:00	Aug
760	Struve 2306	7.9	10"	DS	SCT		18:22:12	-15:05:00	Aug
761	V1942	6.4	*	VS	SGR		19:19:12	-15:54:00	Aug
762	M16			EN	SER		18:18:48	-13:47:00	Aug
763	M26			OC	SCT		18:45:12	-09:24:00	Aug
764	Tau	5.2	1.8"	DS	OPH	challenge	18:03:06	-08:12:00	Aug
765	Alpha	3.9	*	ST	SCT		18:35:12	-08:12:00	Aug
766	NGC6712			OC	SCT		18:53:04	-08:42:22	Aug
767	57	5.7	36"	DS	AQL		19:54:36	-08:14:00	Aug



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768	S	6.8	14.3"	DS	SCT		18:50:18	-07:54:00	Aug
769	M11			OC	SCT		18:51:06	-06:16:00	Aug
770	R	4.5	Stellar	VS	SCT		18:47:30	-05:42:00	Aug
771	V	6.6	Stellar	VS	AQL	red	19:04:24	-05:41:00	Aug
772	15	5.4	38"	DS	AQL	colored	19:05:00	-04:02:00	Aug
773	59	5.2	4"	DS	SER	colored	18:27:12	+00:12:00	Aug
774	Struve 2379	5.8	13"	TS	AQL		18:46:30	-00:58:00	Aug
775	Eta	3.4	*	VS	AQL		19:52:30	+01:00:00	Aug
776	Struve 2276	4	1.5"	DS	OPH	challenge	18:05:30	+02:30:00	Aug
777	Struve 2417	4.1	22"	DS	SER		18:56:18	+04:11:00	Aug
778	Struve 2375	6.2	2"	DS	SER	equal	18:45:30	+05:30:00	Aug
779	NGC6572			PN	OPH		18:12:06	+06:51:13	Aug
780	NGC6633			OC	OPH		18:27:15	+06:30:30	Aug
781	NGC6781			PN	AQL		19:18:28	+06:32:23	Aug
782	OStruve 532	3.7	13"	DS	AQL		19:55:18	+06:24:00	Aug
783	Struve 2449	7.2	8"	DS	AQL		19:06:24	+07:09:00	Aug
784	Mu	4.5	*	ST	AQL		19:34:06	+07:24:00	Aug
785	X	5.9	*	VS	OPH		18:38:18	+08:48:00	Aug
786	R	5.5	Stellar	VS	AQL	red	19:06:24	+08:14:00	Aug
787	Altair	0.8	*	ST	AQL		19:50:48	+08:52:00	Aug
788	Struve 2404	6.9	4"	DS	AQL		18:50:48	+10:59:00	Aug
789	Tarazed	2.7	*	ST	AQL		19:46:18	+10:36:00	Aug
790	Struve 2583	6.1	1.4"	DS	AQL	challenge	19:48:42	+11:48:00	Aug
791	Struve 2426	7.1	17"	DS	AQL	colored	19:00:00	+12:53:00	Aug
792	UV	8.6	*	VS	AQL		18:58:36	+14:24:00	Aug
793	OStruve 178	5.7	90"	DS	AQL		19:15:18	+15:06:00	Aug
794	HN84	6.4	28"	DS	SGE	colored	19:39:24	+16:34:00	Aug
795	OStruve 358	6.8	1.6"	DS	HER	challenge	18:35:54	+17:00:00	Aug
796	Delta	3.8	*	ST	SGE		19:47:24	+18:30:00	Aug
797	M71			GC	SGE		19:53:46	+18:46:42	Aug
798	U	6.6	Stellar	VS	SGE		19:18:48	+19:37:00	Aug
799	Zeta	5	9"	DS	SGE		19:49:00	+19:09:00	Aug
800	Gamma	3.5	*	ST	SGE		19:58:48	+19:30:00	Aug
801	Col399			AS	VUL		19:25:26	+20:11:18	Aug
802	95	4.3	6"	DS	HER	equal	18:01:30	+21:36:00	Aug
803	M27			PN	VUL		19:59:36	+22:43:16	Aug
804	OStruve 359	6.3	0.7"	DS	HER	challenge	18:35:30	+23:36:00	Aug
805	Alpha	4.4	*	ST	VUL		19:28:42	+24:42:00	Aug
806	Struve 2280	5.9	14"	DS	HER	equal	18:07:48	+26:06:00	Aug
807	Struve 2422	8	0.7"	DS	LYR	challenge	18:57:06	+26:06:00	Aug
808	Struve 2525	8.1	2"	DS	VUL		19:26:36	+27:18:00	Aug
809	Albireo	3	35"	DS	CYG	colored	19:30:42	+28:00:00	Aug
810	M56			GC	LYR		19:16:35	+30:11:05	Aug
811	ADS11871	5.4	1"	DS	LYR	challenge	18:57:00	+32:54:00	Aug
812	TT	7.8	*	VS	CYG		19:40:54	+32:36:00	Aug
813	Chi	3.3	Stellar	VS	CYG		19:50:36	+32:55:00	Aug
814	Beta	3.5	47"	DS	LYR	magnitude	18:50:00	+33:24:00	Aug
815	M57			PN	LYR		18:53:35	+33:01:45	Aug

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816	OStruve 525	6	45"	DS	LYR	colored	18:54:54	+33:58:00	Aug
817	Struve 2580	5	26"	DS	CYG	magnitude	19:46:24	+33:44:00	Aug
818	Struve 2474	6.5	16"	DS	LYR		19:09:06	+34:35:00	Aug
819	OStruve Struve 191	6	39"	DS	CYG	colored	19:45:54	+35:01:00	Aug
820	W	7.3	*	VS	LYR		18:14:54	+36:42:00	Aug
821	Kappa	4.3	*	ST	LYR		18:19:54	+36:06:00	Aug
822	Delta2	4.5	*	ST	CYG		18:54:30	+36:54:00	Aug
823	T	7.8	*	VS	LYR	red	18:32:18	+37:00:00	Aug
824	HK	9.5	*	VS	LYR		18:42:48	+37:00:00	Aug
825	Zeta	4.4	44"	DS	LYR		18:44:48	+37:36:00	Aug
826	Vega	0	Stellar	ST	LYR		18:36:54	+38:47:00	Aug
827	Double-Double	4.7	2"	QS	LYR		18:44:18	+39:40:00	Aug
828	NGC6819			OC	CYG		19:41:18	+40:11:00	Aug
829	RR	7.1	Stellar	VS	LYR		19:25:30	+42:47:00	Aug
830	13	3.9	4"	ST	LYR		18:55:18	+43:54:00	Aug
831	Struve 2579	2.9	2"	DS	CYG	magnitude	19:45:00	+45:08:00	Aug
832	Struve 2486	6.6	8"	DS	CYG	equal	19:12:06	+49:51:00	Aug
833	R	6.1	*	VS	CYG		19:36:48	+50:12:00	Aug
834	16	6	39"	DS	CYG	equal	19:41:48	+50:32:00	Aug
835	NGC6826			PN	CYG		19:44:48	+50:31:30	Aug
836	Struve 2348	6	26"	DS	DRA		18:33:54	+52:18:00	Aug
837	Psi	4.9	3"	DS	CYG	magnitude	19:55:36	+52:26:00	Aug
838	Struve 2323	4.9	4"	TS	DRA		18:24:00	+58:48:00	Aug
839	Struve 2398	8	13"	DS	DRA		18:43:00	+59:36:00	Aug
840	Struve 2420	4.9	35"	DS	DRA		18:51:12	+59:22:00	Aug
841	Epsilon	3.8	3"	DS	DRA	magnitude	19:48:12	+70:16:00	Aug
842	Tau	4.5	*	ST	DRA		19:15:30	+73:24:00	Aug
843	UX	5.9	Stellar	VS	DRA	red	19:21:36	+76:34:00	Aug
844	Struve 2038	5.7	20"	DS	DRA	equal	18:00:00	+80:00:00	Aug
845	Dunlop236	6	57"	DS	MIC		21:02:12	-43:00:00	Sep
846	RT	6	*	VS	SGR		20:17:42	-39:06:00	Sep
847	Omega	4.1	*	ST	CAP		20:51:48	-26:54:00	Sep
848	24	4.5	*	PN	CAP	nebula	21:07:06	-25:00:00	Sep
849	M30			GC	CAP		21:40:22	-23:10:45	Sep
850	M75			GC	SGR		20:06:04	-21:55:17	Sep
851	RT	8.9	*	VS	CAP		20:17:06	-21:18:00	Sep
852	pi	5.3	3"	DS	CAP	magnitude	20:27:18	-18:13:00	Sep
853	Omicron	6.1	19"	DS	CAP		20:29:54	-18:35:00	Sep
854	S763	6.7	16"	DS	CAP		20:48:24	-18:11:00	Sep
855	Dabih	3.4	3'	DS	CAP		20:21:00	-14:48:00	Sep
856	Alpha	4.2	44"	ST	CAP		20:17:36	-12:30:00	Sep
857	Alpha	3.8	7"	QS	CAP		20:18:00	-12:32:00	Sep
858	M72			GC	AQR		20:53:27	-12:32:13	Sep
859	M73			OC	AQR		20:59:00	-12:38:00	Sep
860	NGC7009			PN	AQR		21:04:10	-11:21:49	Sep
861	RY	8	*	VS	AQR		21:20:18	-10:48:00	Sep
862	3	4.4	*	VS	AQR	red	20:47:42	-05:00:00	Sep
863	4	6.4	0.8"	DS	AQR	challenge	20:51:24	-05:36:00	Sep

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864	12	5.9	3"	DS	AQR	challenge	21:04:06	-05:49:00	Sep
865	Struve 2644	6.8	3"	DS	AQL	equal	20:12:36	+00:52:00	Sep
866	M2			GC	AQR		21:33:29	-00:49:23	Sep
867	Epsilon	5.2	1"	TS	EQU	challenge	20:59:06	+04:18:00	Sep
868	Lambda	7.4	3"	DS	EQU		21:02:12	+07:12:00	Sep
869	Struve 2742	7.4	3"	DS	EQU	equal	21:02:12	+07:11:00	Sep
870	Epsilon	2.5	83"	DS	PEG	magnitude	21:44:12	+09:52:00	Sep
871	Gamma	4.7	6'	DS	EQU		21:10:18	+10:06:00	Sep
872	Delta	4.6	48"	DS	EQU	magnitude	21:14:30	+10:00:00	Sep
873	M15			GC	PEG		21:29:58	+12:10:01	Sep
874	AG	6	*	VS	PEG		21:51:00	+12:36:00	Sep
875	Gamma	4.3	10"	DS	DEL		20:46:42	+16:07:00	Sep
876	WZ	7	*	VS	SGE		20:07:36	+17:42:00	Sep
877	Struve 2841	6.4	22"	DS	PEG		21:54:18	+19:42:00	Sep
878	X	7	*	VS	SGE		20:05:06	+20:42:00	Sep
879	Struve 2637	6.4	12"	TS	SGE		20:09:54	+20:55:00	Sep
880	FG	9.5	*	PN	SGE	irregular	20:11:54	+20:18:00	Sep
881	BF	8.5	*	VS	SGE		20:02:24	+21:06:00	Sep
882	RX	8	*	VS	PEG		21:56:24	+22:54:00	Sep
883	NGC6885			OC	VUL		20:11:55	+26:29:20	Sep
884	NGC6960			SNR	CYG		20:45:42	+30:43:00	Sep
885	Struve 2726	4.2	6"	DS	CYG		20:45:42	+30:42:00	Sep
886	NGC6992			SNR	CYG		20:56:24	+31:43:00	Sep
887	39	4.4	*	ST	CYG		20:23:54	+32:12:00	Sep
888	Struve 2716	5.5	3"	DS	CYG	magnitude	20:41:00	+32:18:00	Sep
889	V460	5.6	*	VS	CYG		21:42:00	+35:30:00	Sep
890	RY	8.5	*	VS	CYG		20:10:24	+36:00:00	Sep
891	Lambda	4.9	0.9"	DS	CYG	challenge	20:47:24	+36:30:00	Sep
892	h1470	7.6	29"	DS	CYG	colored	20:03:36	+38:19:00	Sep
893	NGC6888			EN	VUL		20:12:48	+38:19:00	Sep
894	RS	6.5	*	VS	CYG		20:13:24	+38:42:00	Sep
895	P	3	Stellar	VS	CYG		20:17:48	+38:02:00	Sep
896	M29			OC	CYG		20:23:54	+38:32:00	Sep
897	Struve 2758	5.2	29"	DS	CYG		21:06:54	+38:39:00	Sep
898	RV	7.1	*	VS	CYG		21:43:18	+38:00:00	Sep
899	Sadr			ST	CYG		20:22:12	+40:16:00	Sep
900	Xi	3.7	*	ST	CYG		21:04:54	+43:54:00	Sep
901	SS	8.2	Stellar	VS	CYG		21:42:42	+43:35:00	Sep
902	NGC7000			EN	CYG		21:01:48	+44:12:00	Sep
903	Deneb	1.3	*	ST	CYG		20:41:24	+45:17:00	Sep
904	Omicron1	3.8	*	ST	CYG		20:13:36	+46:42:00	Sep
905	U	5.9	*	VS	CYG		20:19:36	+47:54:00	Sep
906	V	7.7	*	VS	CYG		20:41:18	+48:12:00	Sep
907	M39			OC	CYG		21:32:12	+48:26:00	Sep
908	Struve 2658	7.1	5"	DS	CYG		20:13:36	+53:07:00	Sep
909	Struve 2671	6	4"	DS	CYG		20:18:24	+55:23:00	Sep
910	Struve 2840	5.5	18"	DS	CEP		21:52:00	+55:47:00	Sep
911	Struve 2751	6.1	1.5"	DS	CEP	challenge	21:02:06	+56:42:00	Sep

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912	Struve 2816	5.6	12"	TS	CEP		21:39:00	+57:29:00	Sep
913	IC1396			EN	CEP		21:39:06	+57:30:00	Sep
914	Herschel's Garnet	3.4	Stellar	VS	CEP	red	21:43:30	+58:47:00	Sep
915	NGC6939			OC	CEP		20:31:30	+60:39:43	Sep
916	Struve 2780	5.6	1.0"	DS	CEP	challenge	21:11:48	+60:00:00	Sep
917	T	5.2	*	VS	CEP		21:09:30	+68:30:00	Sep
918	Beta	3.3	13"	DS	CEP	magnitude	21:28:42	+70:33:00	Sep
919	Struve 2675	4.4	7"	DS	CEP	magnitude	20:08:54	+77:43:00	Sep
920	S	7.4	Stellar	VS	CEP	red	21:35:12	+78:37:00	Sep
921	Struve 2873	7.1	14"	DS	CEP	equal	21:58:24	+82:51:00	Sep
922	Al	1.7	Stellar	ST	GRU		22:08:12	-46:58:00	Oct
923	Beta	2.1	*	ST	GRU		22:42:42	-46:54:00	Oct
924	Theta	6.6	4"	DS	PHE		23:39:30	-46:36:00	Oct
925	Pi	5.8	2.7"	DS	GRU		22:23:06	-45:54:00	Oct
926	Delta2	4.1	15'	VS	GRU	red	22:29:48	-43:42:00	Oct
927	Lambda	4.5	*	ST	GRU		22:06:06	-39:30:00	Oct
928	Fomalhaut	1.2	*	ST	PSA		22:57:36	-29:37:00	Oct
929	Eta	5.8	1.9"	DS	PSA		22:00:48	-28:27:00	Oct
930	Lal192	6.9	7"	DS	SCL		23:54:24	-27:03:00	Oct
931	41	5.3	5"	DS	AQR	colored	22:14:18	-21:04:00	Oct
932	NGC7184			GX	AQR		22:02:39	-20:48:47	Oct
933	NGC7293			PN	AQR		22:29:38	-20:50:13	Oct
934	99	4.4	*	ST	AQR		23:26:00	-20:36:00	Oct
935	107	5.3	7"	DS	AQR	equal	23:46:00	-18:41:00	Oct
936	29	7.2	4"	DS	AQR	equal	22:02:30	-16:58:00	Oct
937	53	6.4	3"	DS	AQR	equal	22:26:36	-16:45:00	Oct
938	R	5.8	Stellar	VS	AQR		23:43:48	-15:17:00	Oct
939	Tau1	5.7	23"	DS	AQR		22:47:42	-14:06:00	Oct
940	Tau2	4	40'	ST	AQR		22:49:36	-13:36:00	Oct
941	94	5.1	13"	DS	AQR	colored	23:19:06	-13:28:00	Oct
942	Psi3	5	1.5"	DS	AQR		23:19:00	-09:36:00	Oct
943	Lambda	3.7	*	ST	AQR		22:52:36	-07:36:00	Oct
944	Phi	4.2	*	VS	AQR	red	23:14:18	-06:00:00	Oct
945	Zeta	4.3	2"	DS	AQR	challenge	22:28:48	-00:01:00	Oct
946	TX	6.9	Stellar	VS	PSC	red	23:46:24	+03:29:00	Oct
947	Struve 2912	5.8	1"	DS	PEG	challenge	22:30:00	+04:24:00	Oct
948	NGC7626			GX	PEG		23:20:42	+08:12:59	Oct
949	NGC7631			GX	PEG		23:21:26	+08:13:01	Oct
950	52	6.1	0.7"	DS	PEG	challenge	22:59:12	+11:42:00	Oct
951	Scheat	2.4	*	ST	PEG		23:03:48	+28:06:00	Oct
952	Struve 2978	6.3	8"	DS	PEG		23:07:30	+32:49:00	Oct
953	Struve 3050	6.6	1.5"	DS	AND	challenge	23:59:30	+33:43:00	Oct
954	NGC7331			GX	PEG		22:37:05	+34:25:11	Oct
955	1	4.1	*	ST	LAC		22:16:00	+37:42:00	Oct
956	Struve 2894	6.1	16"	DS	LAC	colored	22:18:54	+37:46:00	Oct
957	Struve 3042	7.8	5"	DS	AND	equal	23:51:48	+37:53:00	Oct
958	h1746	4.5	28"	DS	LAC		22:13:54	+39:42:00	Oct
959	Roe47	5.8	43"	QS	LAC		22:32:30	+39:46:00	Oct

<u>Gemini</u>	<u>Catalog</u>	<u>Mag.</u>	<u>Size/Sep.</u>	<u>Type</u>	<u>Const.</u>	<u>Comments</u>	<u>RA</u>	<u>Dec</u>	<u>Transit</u>
960	8	6.5	22"	TS	LAC		22:35:54	+39:38:00	Oct
961	h1823	7.1	82"	QS	LAC		22:51:48	+41:19:00	Oct
962	NGC7662			PN	AND		23:25:53	+42:32:06	Oct
963	11	4.5	*	ST	LAC		22:40:30	+44:18:00	Oct
964	5	4.4	5'	ST	LAC		22:29:30	+47:42:00	Oct
965	Z	8	Stellar	VS	AND		23:33:42	+48:49:00	Oct
966	R	4.7	Stellar	VS	CAS		23:58:24	+51:24:00	Oct
967	Sigma	4.9	3"	DS	CAS	colored	23:59:00	+55:45:00	Oct
968	NGC7789			OC	CAS		23:57:24	+56:42:30	Oct
969	Kruger60	9.8	3"	DS	CEP		22:28:06	+57:42:00	Oct
970	Zeta	3.4	*	ST	CEP		22:10:54	+58:12:00	Oct
971	Delta	3.8	20"	DS	CEP	colored	22:29:12	+58:25:00	Oct
972	OStruve 461	6.7	11.1"	DS	CEP		22:03:54	+59:48:00	Oct
973	King10			OC	CEP		22:54:58	+59:10:16	Oct
974	Struve 2950	6.1	1.7"	DS	CEP		22:51:24	+61:42:00	Oct
975	NGC7635			GX	PEG		23:20:42	+61:12:00	Oct
976	M52			OC	CAS		23:24:12	+61:35:00	Oct
977	Struve 2863	4.3	8"	DS	CEP		22:03:48	+64:38:00	Oct
978	Struve 2947	7	4.3"	DS	CEP		22:49:00	+68:36:00	Oct
979	Struve 2883	5.7	15"	DS	CEP		22:10:42	+70:07:00	Oct
980	Pi	4.6	1.2"	DS	CEP	challenge	23:07:54	+75:24:00	Oct
981	Errai	3.2	*	ST	CEP		23:39:18	+77:36:00	Oct

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