

RASC Double Star Observing Program Checklist

Use this checklist to monitor your progress. If you cannot split a double, it's OK; try again on another night. View a pair of stars for each target. Some targets are triples or have additional stars. Only the brightest or most obvious pair is required.

Record your detailed observations on the provided or your own log sheets. Sketching is optional but highly encouraged.

See the supplemental spreadsheet for detailed information for each component of these double stars including all visible companions, magnitudes, separation values, position angles, visual impressions, etc. If you enjoy "discovery moments," avoid reading the supplement.

The checklist is organised by season, with doubles grouped by constellation, and sorted by RA.

LEGEND

Target a common name for the target double star or multi-star system
 Alternate ID other designation including Bayer, Flamsteed, Draper, etc.
 SAO Smithsonian Astrophysical Observatory catalogue designation
 HIP Hipparcos star catalogue designation
 WDS Washington Double Star catalogue discoverer designation
 RA/Dec 2000 rounded coordinates for the target, J2000 epoch

Con host constellation
 MagC calculated combined magnitude of two bright stars
 Mm suggested telescope size, aperture in millimetres
 X suggested starting power or magnification
 PSA page number in Pocket Sky Atlas
 Seen? use check box to indicate target was viewed

Version 4.0a. Edited on 18 October 2020.

Target	Alternate ID	SAO	HIP	WDS	Con	MagC	RA 2000	Dec 2000	Mm	X	PSA	Seen?
WINTER (part 1)												
HD 21700	BD+27 514	SAO 75964	HIP 16386	STFA 7	Tau	6.8	03 31.1	+27 44	100	45	15	<input type="checkbox"/>
Phi Tau	52 Tau	SAO 76558	HIP 20250	SHJ 40	Tau	5.0	04 20.4	+27 21	90	45	15	<input type="checkbox"/>
32 Eri	HR 1212	SAO 130806	HIP 18255	STF 470	Eri	4.5	03 54.3	-02 57	90	140	17	<input type="checkbox"/>
Keid	Omicron 2 Eri	SAO 131063	HIP 19849	STF 518	Eri	4.4	04 15.2	-07 40	100	25	17	<input type="checkbox"/>
1 Cam	DL Cam	SAO 24672	HIP 21148	STF 550	Cam	5.4	04 32.0	+53 55	90	70	12	<input type="checkbox"/>
Beta Cam	10 Cam	SAO 13351	HIP 23522	S 459	Cam	4.0	05 03.4	+60 27	100	60	11	<input type="checkbox"/>

Target	Alternate ID	SAO	HIP	WDS	Con	MagC	RA 2000	Dec 2000	Mm	X	PSA	Seen?
WINTER (part 2)												
Rho Ori	17 Ori	SAO 112528	HIP 24331	STF 654	Ori	4.6	05 13.3	+02 52	150	100	14	<input type="checkbox"/>
Mintaka	Delta Ori, 34 Ori	SAO 132220	HIP 25930	BU 558	Ori	2.4	05 32.0	-00 18	90	45	16	<input type="checkbox"/>
HR 1887	HD 36960	SAO 132301	HIP 26199	STF 747	Ori	4.3	05 35.0	-06 00	90	45	16	<input type="checkbox"/>
The Trapezium	Theta 1 Ori, 41 Ori	SAO 132314	HIP 26220	STF 748	Ori	6.2	05 35.3	-05 23	90	150	16	<input type="checkbox"/>
Beta Mon	11 Mon	SAO 133316	HIP 30867	STF 919	Mon	4.0	06 28.8	-07 02	90	100	27	<input type="checkbox"/>
HD 34071	TYC 5902-1722-1	SAO 150258		GAL 378	Lep	7.5	05 14.1	-16 40	100	50	16	<input type="checkbox"/>
Gamma Lep	HD 38393, 13 Lep	SAO 170759	HIP 27072	H 6 40	Lep	3.5	05 44.5	-22 27	90	25	16	<input type="checkbox"/>
HD 51502	PPM 123322	SAO 96325	HIP 33529	STTA 80	Gem	6.6	06 58.1	+14 14	100	25	25	<input type="checkbox"/>
Mekbuda	Zeta Gem, 43 Gem	SAO 79031	HIP 34088	SHJ 77	Gem	4.1	07 04.1	+20 34	100	25	25	<input type="checkbox"/>
HR 2764	Winter Albireo, 145 CMa	SAO 173349	HIP 35210	HJ 3945	CMa	4.6	07 16.6	-23 19	90	45	27	<input type="checkbox"/>
19 Lyn	HD 57103, HR 2784	SAO 26312	HIP 35785	STF1062	Lyn	5.4	07 22.9	+55 17	90	45	23	<input type="checkbox"/>
HD 75353	TYC 2491-00983-3	SAO 61077	HIP 43426	STF1282	Lyn	6.9	08 50.7	+35 04	150	140	22	<input type="checkbox"/>
Alpha Lyn	40 Lyn, HD 80493	SAO 61414	HIP 45860	STT 571	Lyn	3.3	09 21.0	+34 24	100	25	33	<input type="checkbox"/>
HR 2910	N Pup, HD 60585	SAO 174020	HIP 36817	H N 19	Pup	5.1	07 34.3	-23 28	90	100	27	<input type="checkbox"/>
2 Pup	HR 3010	SAO 153363	HIP 37843	STF1138	Pup	5.5	07 45.5	-14 41	90	45	26	<input type="checkbox"/>

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SPRING (part 1)												
Tegmen	Zeta 1 Cnc, 16 Cnc	SAO 97645	HIP 40167	STF1196	Cnc	4.5	08 12.2	+17 39	90	100	24	<input type="checkbox"/>
HR 3395	HD 72945	SAO 116929	HIP 42172	STF1245	Cnc	5.7	08 35.8	+06 37	90	70	24	<input type="checkbox"/>
HD 75646	TYC 1946-02159-1	SAO 80467	HIP 43535	STTA 96	Cnc	7.3	08 52.0	+25 43	90	45	24	<input type="checkbox"/>
HD 73668	TYC 0223-01420-1	SAO 117000	HIP 42488	STF1255	Hya	7.0	08 39.7	+05 46	90	45	24	<input type="checkbox"/>
Tau 1 Hya	31 Hya	SAO 136895	HIP 46509	HJ 1167	Hya	4.5	09 29.2	-02 46	90	25	37	<input type="checkbox"/>
HR 3963	HD 87344	SAO 155704	HIP 49321	BU 1072	Hya	5.8	10 04.0	-18 06	90	70	37	<input type="checkbox"/>
HR 4363	HD 97855	SAO 27970	HIP 55044	STF1520	UMa	6.2	11 16.1	+52 46	90	70	32	<input type="checkbox"/>
HD 100054	TYC 3831-00765-1	SAO 28043	HIP 56202	STF1544	UMa	6.8	11 31.3	+59 42	90	70	32	<input type="checkbox"/>
83 Leo	HR 4414	SAO 118864	HIP 55846	STF1540	Leo	6.2	11 26.7	+03 01	90	45	34	<input type="checkbox"/>
Tau Leo	84 Leo	SAO 118875	HIP 55945	STFA 19	Leo	5.0	11 27.9	+02 51	100	25	34	<input type="checkbox"/>

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SPRING (part 2)												
HD 105590	TYC 5522-01685-1	SAO 157111	HIP 59272	STF1604	Crv	6.8	12 09.5	-11 51	100	70	47	<input type="checkbox"/>
Algorab	Delta Crv, 7 Crv	SAO 157323	HIP 60965	SHJ 145	Crv	3.0	12 29.9	-16 31	100	50	47	<input type="checkbox"/>
HD 109556	TYC 5530-02065-1	SAO 157384	HIP 61466	STF1659	Crv	7.3	12 35.7	-12 01	100	40	47	<input type="checkbox"/>
2 CVn	HR 4666	SAO 44097	HIP 59831	STF1622	CVn	5.8	12 16.1	+40 40	90	70	43	<input type="checkbox"/>
Cor Caroli	Alpha 2 CVn, 12 CVn	SAO 63257	HIP 63125	STF1692	CVn	2.8	12 56.0	+38 19	90	70	43	<input type="checkbox"/>
HR 4698	HD 107398	SAO 82254	HIP 60197	STF1633	Com	6.3	12 20.7	+27 03	90	100	45	<input type="checkbox"/>
12 Com	HR 4707	SAO 82273	HIP 60351	SHJ 143	Com	4.9	12 22.5	+25 51	100	25	45	<input type="checkbox"/>
24 Com	HR 4792	SAO 100160	HIP 61418	STF1657	Com	4.8	12 35.1	+18 23	90	70	45	<input type="checkbox"/>
HD 110932	TYC 0881-00563-1	SAO 100236	HIP 62248	STF1678	Com	6.7	12 45.4	+14 22	90	45	45	<input type="checkbox"/>
32 Com	HR 4884	SAO 100309	HIP 62807	STFA 23	Com	6.0	12 52.2	+17 04	90	25	45	<input type="checkbox"/>
HD 112278	TYC 0885-01206-1	SAO 100337	HIP 63081	STF1689	Vir	6.9	12 55.5	+11 30	100	50	45	<input type="checkbox"/>
Asellus Tertius	Kappa 2 Boo, 17 Boo	SAO 29046	HIP 69483	STF1821	Boo	4.4	14 13.5	+51 47	90	100	42	<input type="checkbox"/>
Iota Boo	21 Boo	SAO 29071	HIP 69713	STFA 26	Boo	4.7	14 16.2	+51 22	90	45	42	<input type="checkbox"/>
Delta Boo	49 Boo	SAO 64589	HIP 74666	STFA 27	Boo	3.6	15 15.5	+33 19	100	25	53	<input type="checkbox"/>
Alkalurops	Mu 1 Boo, 51 Boo	SAO 64686	HIP 75411	STFA 28	Boo	4.2	15 24.5	+37 23	90	25	53	<input type="checkbox"/>
HR 5397	HD 126367	SAO 158558	HIP 70518	SHJ 179	Lib	6.1	14 25.5	-19 58	100	25	46	<input type="checkbox"/>
Zuben Elgenubi	Alpha 2 Lib, 9 Lib	SAO 158840	HIP 72622	SHJ 186	Lib	2.6	14 50.9	-16 03	35	7	46	<input type="checkbox"/>
HR 5816	HD 139461	SAO 140672	HIP 76603	STF1962	Lib	5.7	15 38.7	-08 47	90	70	57	<input type="checkbox"/>
HD 139691	TYC 2577-01756-1	SAO 64821	HIP 76563	HU 1167	CrB	7.3	15 38.2	+36 15	100	70	53	<input type="checkbox"/>
Sigma CrB	17 CrB, TZ Crb	SAO 65165	HIP 79607	STF2032	CrB	5.2	16 14.7	+33 51	150	100	53	<input type="checkbox"/>
HR 6043	HD 145802	SAO 65129	HIP 79350	STT 305	CrB	6.4	16 11.7	+33 21	90	100	53	<input type="checkbox"/>
Theta 1 Ser	Alya, 63 Ser	SAO 124068	HIP 92946	STF2417	Ser (Cau)	4.0	18 56.2	+04 12	90	45	65	<input type="checkbox"/>
HD 144564	TYC 0957-00526-1	SAO 101922	HIP 78875	STF2007	Ser (Cap)	6.6	16 06.0	+13 19	90	70	55	<input type="checkbox"/>

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SUMMER (part 1)												
Xi Sco	Grafiar, HR 5978	SAO 159665	HIP 78727	STF1998	Sco	5.1	16 04.4	-11 22	90	100	56	<input type="checkbox"/>
Rasalgethi	Alpha 1 Her, 64 Her	SAO 102680	HIP 84345	STF2140	Her	3.3	17 14.6	+14 23	100	150	54	<input type="checkbox"/>
100 Her	HR 6781	SAO 85753	HIP 88818	STF2280	Her	5.0	18 07.8	+26 06	90	45	65	<input type="checkbox"/>

Target	Alternate ID	SAO	HIP	WDS	Con	MagC	RA 2000	Dec 2000	Mm	X	PSA	Seen?
SUMMER (part 2)												
17 Dra	HR 6185	SAO 30013	HIP 81292	STF2078	Dra	5.0	16 36.2	+52 55	150	140	52	<input type="checkbox"/>
Kuma	Nu 2 Dra, 25 Dra	SAO 30450	HIP 85829	STFA 35	Dra	4.1	17 32.3	+55 10	90	25	52	<input type="checkbox"/>
Dsiban	Psi 1 Dra, 31 Dra	SAO 8890	HIP 86614	STF2241	Dra	4.2	17 41.9	+72 09	90	45	51	<input type="checkbox"/>
41 Dra	HR 6810	SAO 8996	HIP 88136	STF2308	Dra	5.1	18 00.2	+80 00	90	70	61	<input type="checkbox"/>
HR 7083	HD 174208	SAO 142661	HIP 92391	H 6 50	Sct	6.0	18 49.7	-05 55	100	25	67	<input type="checkbox"/>
Epsilon 1 Lyr	Double Double, 4 Lyr	SAO 67310	HIP 91919	STF2382	Lyr	3.9	18 44.3	+39 40	150	140	63	<input type="checkbox"/>
Sheliak	Beta Lyr, 10 Lyr	SAO 67451	HIP 92420	STFA 39	Lyr	3.5	18 50.1	+33 22	90	45	63	<input type="checkbox"/>
HR 7140	HD 175635	SAO 67566	HIP 92833	STT 525	Lyr	5.9	18 54.9	+33 58	90	45	63	<input type="checkbox"/>
HR 7099	HD 174569	SAO 104170	HIP 92475	STF2404	Aql	6.5	18 50.8	+10 59	150	140	65	<input type="checkbox"/>
15 Aql	h Aql, HR 7225	SAO 142996	HIP 93717	SHJ 286	Aql	5.3	19 05.0	-04 02	90	45	67	<input type="checkbox"/>
57 Aql	HR 7593	SAO 143898	HIP 97966	STF2594	Aql	5.2	19 54.6	-08 14	90	45	66	<input type="checkbox"/>
HR 7294	HD 179958	SAO 48193	HIP 94336	STF2486	Cyg	5.8	19 12.1	+49 52	90	100	63	<input type="checkbox"/>
HR 7529	HD 186901	SAO 68805	HIP 97228	STF2578	Cyg	5.9	19 45.7	+36 05	90	70	62	<input type="checkbox"/>
U Cyg	HD 193700	SAO 49479	HIP 100230	BLL 49	Cyg	7.6	20 19.7	+47 54	90	45	62	<input type="checkbox"/>
61 Cyg	V1803 Cyg	SAO 70919	HIP 104214	STF2758	Cyg	4.8	21 07.0	+38 46	90	45	73	<input type="checkbox"/>
HD 200392	TYC 1660-00673-1	SAO 89397	HIP 103852	BU 69	Vul	7.4	21 02.6	+21 41	100	25	75	<input type="checkbox"/>
HR 8101	HD 201671	SAO 89505	HIP 104539	STF2769	Vul	6.2	21 10.5	+22 27	90	45	75	<input type="checkbox"/>
HD 183014	TYC 1612-00787-1	SAO 87218	HIP 95612	STF2523	Vul	7.3	19 26.8	+21 10	100	50	64	<input type="checkbox"/>
V340 Sge	HR 7475	SAO 105104	HIP 96688	H N 84	Sge	6.3	19 39.4	+16 34	100	50	64	<input type="checkbox"/>
Theta Sge	17 Sge	SAO 88276	HIP 99352	STF2637	Sge	6.2	20 09.9	+20 55	100	70	64	<input type="checkbox"/>
HR 8281	HD 206267	SAO 33626	HIP 106886	BU 1143	Cep	5.5	21 39.0	+57 29	90	70	73	<input type="checkbox"/>
HR 8357	HD 208095	SAO 33819	HIP 107930	STF2840	Cep	5.2	21 52.0	+55 48	90	45	73	<input type="checkbox"/>
Alkurhah	Xi Cep, 17 Cep	SAO 19827	HIP 108917	STF2863	Cep	4.3	22 03.8	+64 38	90	70	71	<input type="checkbox"/>
Delta Cep	27 Cep	SAO 34508	HIP 110991	STFA 58	Cep	4.0	22 29.2	+58 25	90	45	72	<input type="checkbox"/>
Kappa Cep	1 Cep	SAO 9665	HIP 99255	STF2675	Cep	4.4	20 08.9	+77 43	150	140	61	<input type="checkbox"/>
Alpha 1 Cap	Al Giedi, 5 Cap	SAO 163422	HIP 100027	BU 295	Cap	4.2	20 17.6	-12 31	100	25	66	<input type="checkbox"/>
Dabih	Beta Cap, 9 Cap	SAO 163481	HIP 100345	STFA 52	Cap	3.0	20 21.0	-14 47	35	7	66	<input type="checkbox"/>
Omicron Cap	12 Cap	SAO 163626	HIP 101123	SHJ 324	Cap	5.5	20 29.9	-18 35	90	45	66	<input type="checkbox"/>
HD 196411	TYC 1100-01112-1	SAO 106302	HIP 101700	STF2703	Del	7.6	20 36.8	+14 44	100	40	64	<input type="checkbox"/>
Gamma 2 Del	12 Del	SAO 106476	HIP 102532	STF2727	Del	3.9	20 46.7	+16 07	90	100	64	<input type="checkbox"/>

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AUTUMN												
3 Peg	HR 8265	SAO 126940	HIP 106783	STFA 56	Peg	5.9	21 37.7	+06 37	90	45	75	<input type="checkbox"/>
Epsilon Equ	1 Equ	SAO 126428	HIP 103569	STF2737	Equ	5.1	20 59.1	+04 18	90	70	75	<input type="checkbox"/>
8 Lac	HR 8603	SAO 72509	HIP 111546	STF2922	Lac	5.2	22 35.9	+39 38	90	45	72	<input type="checkbox"/>
10 Lac	HR 8622	SAO 72575	HIP 111841	S 813	Lac	4.8	22 39.3	+39 03	100	25	72	<input type="checkbox"/>
WZ Cas	HD 224855	SAO 21002	HIP 99	STTA254	Cas	7.0	00 01.3	+60 21	100	25	1	<input type="checkbox"/>
HR 9094	HD 225009	SAO 10937	HIP 207	STF3053	Cas	5.7	00 02.6	+66 06	90	70	1	<input type="checkbox"/>
Achird	Eta Cas, 24 Cas	SAO 21732	HIP 3821	STF 60	Cas	3.5	00 49.1	+57 49	100	100	3	<input type="checkbox"/>
Pi And	29 And	SAO 54033	HIP 2912	H 5 17	And	4.3	00 36.9	+33 43	100	50	3	<input type="checkbox"/>
56 And	HR 557	SAO 55107	HIP 9021	STFA 4	And	5.2	01 56.2	+37 15	50	10	2	<input type="checkbox"/>
Almaak	Gamma 1 And, 57 And	SAO 37734	HIP 9640	STF 205	And	2.2	02 03.9	+42 20	90	100	2	<input type="checkbox"/>
59 And	HR 628	SAO 55330	HIP 10176	STF 222	And	5.6	02 10.9	+39 02	90	70	2	<input type="checkbox"/>
77 Psc	HR 313	SAO 109666	HIP 5141	STF 90	Psc	6.0	01 05.8	+04 54	90	45	5	<input type="checkbox"/>
Zeta Psc	86 Psc	SAO 109739	HIP 5737	STF 100	Psc	4.9	01 13.7	+07 35	90	45	5	<input type="checkbox"/>
HD 3125	D 2	SAO 128831	HIP 2713	STF 39	Cet	6.9	00 34.5	-04 33	150	50	7	<input type="checkbox"/>
HD 9336	BD-19 262	SAO 147861	HIP 7108	HJ 2052	Cet	6.4	01 31.6	-19 01	90	45	6	<input type="checkbox"/>
Nu Cet	78 Cet	SAO 110635	HIP 12093	STF 281	Cet	5.0	02 35.9	+05 36	100	50	4	<input type="checkbox"/>
66 Cet	HR 650	SAO 129752	HIP 10305	STF 231	Cet	5.5	02 12.8	-02 24	90	45	6	<input type="checkbox"/>
Mesarthim	Gamma 2 Ari, 5 Ari	SAO 92681	HIP 8832	STF 180	Ari	3.8	01 53.5	+19 18	90	100	4	<input type="checkbox"/>
HD 13247	BD+32 390	SAO 55321	HIP 10130	STF 219	Tri	7.6	02 10.3	+33 22	100	50	2	<input type="checkbox"/>
15 Tri	HR 750	SAO 55687	HIP 12086	AG 304	Tri	5.3	02 35.8	+34 41	90	25	2	<input type="checkbox"/>
Polaris	Alpha UMi, 1 UMi	SAO 308	HIP 11767	STF 93	UMi	2.0	02 31.9	+89 16	100	50	1	<input type="checkbox"/>
Zeta Per	Atik, 44 Per	SAO 56799	HIP 18246	STF 464	Per	2.9	03 54.1	+31 53	90	70	13	<input type="checkbox"/>
Miram	Eta Per, 15 Per	SAO 23655	HIP 13268	STF 307	Per	3.8	02 50.7	+55 54	90	45	2	<input type="checkbox"/>