

ROYAL OBSERVATORY, GREENWICH

Observations of Double Stars
made with the
28-inch Refractor

1919-1925

GREENWICH DOUBLE STAR OBSERVATIONS.

The following list are measures of double stars made with the 28-inch Refractor from the catalogue prepared in 1919, and which have been observed on at least three nights up to end of 1925. Previous observations from this catalogue were published in the Greenwich volume for 1920.

The measures were generally made with a power of 670. The stars are given in order of Right Ascension, and the number given before the name is that of Burnham's General Catalogue. The initials given under the column headed "Obs." signify—

JJ = Mr. Jackson.

B = Mr. Bryant.

HF = Mr. Furner.

W = Mr. Witchell.

RC = Mr. Cullen.

OBSERVATIONS OF DOUBLE STARS, MADE AT THE ROYAL OBSERVATORY, GREENWICH.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	12731.	Σ 3056			150.	β 1015			388.	Σ 52	
1923.71	147.9	0.60	HF	1924.96	122.8	0.59	HF	1923.81	13.2	1.13	HF
23.78	145.4	0.57	HF	24.99	123.4	0.54	HF	23.82	15.5	1.10	HF
23.81	147.7	0.47	HF	25.06	120.4	0.54	HF	23.86	13.6	1.10	HF
25.75	146.6	0.52	HF								
25.76	149.0	0.70	RC		217.	β 779			402.	β 865	
	12732.	β 862.		1920.83	255.3	0.59	HF				
1923.78	128.2	0.43	HF	23.78	250.6	0.70	HF	1923.82	195.3	1.09	HF
23.81	120.3	0.42	HF	24.96	258.0	0.90	HF	23.86	196.6	1.09	HF
25.75	124.9	0.59	HF	25.06	257.7	0.89	HF	24.93	198.3	1.21	HF
	12736.	β 997.			243.	β 394			414.	β 866	
1923.82	338.1	3.79	HF	1923.82	282.7	0.87	HF	1923.82	71.8	1.22	HF
24.73	335.4	4.06	HF	24.73	284.5	0.96	HF	23.85	75.4	1.07	HF
25.68	335.7	4.00	W	24.86	280.4	1.27	JJ	24.93	70.8	1.07	HF
				24.93	283.1	1.23	HF				
	53.	Ho 1.			260.	$\circ \Sigma$ 12			418.	Hu 413	
1920.82	167.4	1.32	JJ	1921.14	162.6	0.59	B	1920.89	247.2	0.66	HF
20.82	165.5	1.05	HF	22.11	162.0	0.51	B	24.99	245.4	0.83	HF
23.80	161.4	1.30	RC	24.86	162.1	0.59	JJ	25.83	246.4	0.90	HF
23.81	162.2	1.06	HF						425.	Ho 306	
23.88	166.3	1.48	JJ		271.	β 780		1920.83	163.8	1.63	JJ
25.75	160.5	1.02	HF	1923.83	139.7	2.48	W	23.80	164.5	1.50	RC
25.76	170.3	1.24	RC	24.84	132.7	2.15	HF	24.99	164.8	1.25	HF
	61.	β 255		24.86	135.6	2.41	JJ				
				24.88	135.2	2.30	JJ		439.	Σ 61	
1920.89	101.3	0.60	B								
23.78	91.6	0.60	HF		327.	Hu 410		1922.96	295.9	4.28	JJ
23.81	90.5	0.48	HF					22.99	294.3	4.50	W
23.85	99.0	0.39	HF	1923.88	325.4	3.42	JJ	23.79	301.6	4.44	RC
25.06	91.0	0.65	HF	24.90	319.4	2.98	RC	23.80	299.5	4.44	RC
				25.73	321.9	3.05	RC				
	70.	$\circ \Sigma$ 2		25.83	320.6	3.05	HF		446.	Ho 4	
1920.88	30.3	0.45	HF		332.	β 230		1923.83	197.8	1.78	W
23.81	31.7	0.51	HF					24.86	202.5	1.72	JJ
23.85	38.1	0.37	HF	1923.81	323.2	3.84	W	24.88	201.3	1.83	JJ
25.06	27.3	0.58	HF	23.87	320.4	3.93	RC				
				23.88	336.2	3.52	JJ		524.	Ma 1	
	86.	β 1027		24.00	323.9	3.96	RC				
1920.88	186.2	1.45	HF		336.	Hu 411		1920.82	29.6	1.15	JJ
20.89	178.4	1.52	HF					20.82	21.0	1.15	JJ
24.78	176.9	2.05	W	1923.77	104.7	0.72	HF	23.78	28.1	0.81	HF
24.99	181.5	1.42	HF	23.83	99.9	0.53	W	23.81	27.7	0.76	HF
				24.09	103.3	0.78	HF	24.84	24.2	0.92	HF
	104.	$\circ \Sigma$ 4		25.83	100.7	0.71	HF		600.	$\circ \Sigma$ 515	
1921.14	271.9	0.26	B		340.	Σ 44		1923.15	189.1	0.31	HF
22.11	256.9	0.29	B					23.78	190.8	0.25	HF
23.81	237.8	0.36	HF	1924.86	268.2	10.19	JJ	23.81	186.1	0.30	HF
25.81	244.4	0.37	HF	24.88	268.1	10.20	JJ	25.81	190.1	0.36	HF
				25.86	270.6	10.41	RC				
	125.	Espin 41			359.	β 257			608.	AG 15	
1924.69	219.6	5.99	W	1924.93	243.0	0.72	HF	1923.80	247.7	2.80	RC
24.73	216.4	5.79	HF	25.97	244.8	0.77	HF	23.86	247.4	2.55	HF
25.77	216.6	6.07	HF	25.86	234.9	0.72	RC	24.78	250.4	2.70	W

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	612.	β 303			795.	AG 20			941.	Σ 162	
1923·87	293·6	0·48	HF	1922·96	66·2	2·58	JJ	1920·82	217·7	1·82	JJ
24·02	286·1	0·69	JJ	22·97	66·3	3·03	RC	20·82	216·0	1·68	HF
24·99	294·7	0·72	HF	23·91	66·8	2·74	JJ	21·19	211·4	1·91	HF
25·83	280·3	0·82	HF	24·02	68·9	2·81	JJ	23·15	209·4	1·82	HF
25·86	282·2	0·70	RC	24·99	67·5	2·65	HF	23·78	208·6	1·65	HF
25·87	287·7	0·88	RC					23·81	209·8	1·82	HF
	614.	β 235			823.	Hol. 6			956.	β 1016	
1921·14	107·2	0·98	B	1923·85	110·0	2·15	W	1925·01	206·6	0·71	HF
23·15	99·7	0·77	HF	23·87	113·5	2·13	HF	25·81	212·0	0·69	HF
23·78	103·6	0·89	HF	23·88	108·6	2·24	JJ	25·83	205·8	0·74	HF
25·81	103·4	1·03	HF	24·86	108·6	2·12	JJ		962.	β 1313	
				24·88	111·7	2·15	JJ	1923·85	158·3	0·63	W
	617.	β 2			824.	β 507		25·01	158·8	0·83	HF
1923·85	151·8	2·11	HF	1924·86	155·5	2·23	JJ	25·97	157·0	0·77	HF
23·87	148·2	2·09	HF	25·84	151·3	1·97	RC		977.	Ho 311	
24·02	154·0	1·95	JJ	25·87	152·4	1·76	RC	1923·02	182·2	0·40	B
24·86	153·8	2·09	JJ		887.	β 870		23·85	190·7	0·46	W
24·88	153·6	2·28	JJ	1920·82	41·5	1·29	JJ	24·99	182·6	0·59	HF
	630.	β 398		20·82	47·2	0·87	HF	25·01	179·8	0·42	HF
1923·15	47·9	1·91	HF	21·19	37·6	1·05	HF		1002.	Σ 183	
23·78	45·1	1·71	HF	23·15	37·6	0·94	HF	1920·88	345·0	0·39	HF
24·93	45·0	1·66	HF	23·88	33·9	0·89	JJ	25·01	348·8	0·45	HF
				25·81	38·8	1·07	HF	25·83	341·3	0·45	HF
	633.	β 236			898.	Σ 149		25·97	348·1	0·53	HF
1924·93	114·3	5·06	HF	1923·78	106·0	1·27	HF		1015.	Σ 186	
25·77	114·5	5·57	HF	23·81	99·0	1·16	HF	1924·04	37·4	1·15	HF
25·81	114·0	5·21	HF	23·88	99·9	1·51	JJ	24·99	42·0	1·12	HF
	698.	Da 8		24·93	98·7	1·30	HF	25·84	42·2	0·94	RC
1923·15	144·0	2·35	HF		922.	β 784		25·87	42·5	0·97	RC
23·78	138·3	2·59	HF	1924·99	49·5	2·07	HF		1039.	Σ 194	
23·81	138·1	2·50	HF	25·83	47·8	1·68	HF	1922·85	272·8	1·10	W
23·82	138·9	2·33	HF	25·84	49·2	1·95	RC	23·81	272·8	1·35	W
	763.	A. Clark 14			923.	β 736		23·83	271·8	1·16	W
1923·15	91·9	0·63	HF	1924·78	208·1	0·77	W	23·85	274·6	0·99	HF
23·78	91·4	0·62	HF	24·93	213·3	1·00	HF	23·87	270·5	1·03	HF
23·81	97·2	0·67	HF	25·83	207·8	0·87	HF		1043.	Σ 196	
23·82	93·4	0·72	HF		926.	Σ 158		1924·87	50·7	2·20	JJ
23·88	96·1	0·87	JJ	1920·83	260·9	1·83	JJ	24·99	48·1	2·21	HF
	780.	Espin 4		20·91	259·3	2·00	HF	25·84	47·7	1·82	RC
1920·94	98·3	2·73	HF	24·91	257·8	1·75	HF	25·97	49·6	1·98	HF
23·81	103·5	2·79	HF		939.	Espin 5			1059.	Ho 12	
23·88	102·4	2·99	JJ	1923·15	100·6	2·83	HF	1923·85	99·3	3·34	W
24·88	104·7	2·95	JJ	23·78	102·6	2·70	HF	24·86	98·2	3·50	JJ
				23·81	99·8	2·89	HF	24·87	100·6	3·82	JJ
				25·81	98·5	2·73	HF	25·83	93·6	3·58	HF

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	1061.	Σ 202			1375.	$O \Sigma$ 44			1678.	Σ 380	
1924.04	306.3	"10	HF	1921.19	57.5	"30	HF	1922.97	52.6	"04	HF
24.86	310.2	2.39	JJ	22.93	63.7	1.42	JJ	23.10	54.1	0.98	HF
24.99	311.9	2.39	HF	23.78	52.8	1.18	HF	24.04	48.6	1.14	HF
25.84	310.4	2.29	RC	24.87	54.7	1.30	JJ	25.10	46.0	1.09	HF
				24.93	53.1	1.35	HF	25.10	48.0	1.25	RC
	1070.	$O \Sigma$ 38			1470.	β 1293			1690.	Ho 321	
1920.82	105.6	0.45	HF								
20.82	112.2	0.45	HF	1923.81	347.6	1.84	W	1923.81	35.4	1.65	W
20.82	114.3	0.61	JJ	24.93	348.7	1.72	HF	25.19	34.0	1.42	W
23.15	102.2	0.35	HF	24.93	347.5	1.74	W	25.91	37.0	1.30	RC
23.78	106.0	0.39	HF								
23.81	104.1	0.36	HF								
	1091.	β 516			1494.	Ho 317			1695.	Ho 322	
1924.04	293.4	0.83	HF	1920.99	306.4	3.21	HF	1923.81	122.6	2.41	W
24.99	294.0	1.06	HF	25.84	311.7	3.10	RC	24.17	127.3	2.18	W
25.84	286.0	0.78	RC	25.97	311.6	3.12	HF	25.19	127.5	2.17	W
								25.93	123.6	2.03	W
	1144.	Σ 228			1508.	β 525			1719.	Σ 395	
1921.14	125.2	0.66	B	1923.02	174.7	0.40	B				
21.19	121.2	0.59	HF	23.10	181.7	0.36	HF	1924.99	94.5	1.57	HF
23.78	129.8	0.52	HF	23.15	179.5	0.25	HF	25.18	99.3	1.53	RC
23.81	130.0	0.59	HF					25.84	99.7	1.77	RC
24.94	132.6	0.70	RC		1515.	Ho 318			1759.	β 788	
	1212.	Σ 248		1921.03	204.5	3.55	HF				
1921.19	144.1	1.04	HF	23.02	202.5	3.21	HF	1924.86	305.6	2.57	JJ
23.78	138.9	0.99	HF	25.84	210.7	3.42	RC	24.93	305.5	2.64	HF
23.81	140.8	1.28	W					24.99	305.6	2.54	HF
24.93	138.9	1.27	HF	1923.01	144.3	0.46	HF	25.91	303.6	2.16	RC
24.94	140.8	1.24	RC	23.10	142.0	0.46	HF		1787.	Σ 422	
	1226.	β 8		23.15	143.2	0.43	HF	1921.09	253.5	6.48	JJ
1924.04	204.4	1.07	HF	24.99	144.1	0.63	HF	22.04	254.3	6.25	HF
24.87	209.7	1.22	RC		1598.	$O \Sigma$ 51		25.10	252.6	6.25	RC
24.99	202.2	1.10	HF	1920.84	311.5	1.63	JJ		1831.	Hu 103	
	1254.	Hu 537		20.84	310.0	1.22	HF	1924.17	207.6	0.98	W
1924.16	17.8	1.88	W	21.19	309.7	0.90	HF	24.99	205.4	0.93	HF
24.94	17.6	1.72	RC	23.78	312.2	1.06	HF	25.19	206.9	0.98	W
25.81	19.3	1.51	HF	24.93	314.7	1.11	HF		1834.	β 535	
	1309.	Σ 276			1638.	Hu 545		1923.83	47.5	1.01	W
1922.04	267.0	1.93	HF	1923.78	84.5	3.22	HF	24.94	40.6	0.82	RC
22.97	262.4	1.98	HF	23.81	81.2	3.51	W	24.99	39.1	1.10	HF
24.04	264.4	1.72	HF	25.19	78.8	3.37	W	25.01	36.8	1.13	HF
24.87	259.6	2.18	RC		1639.	$O \Sigma$ 53			1835.	Ho 504	
24.99	260.8	1.73	HF	1921.14	172.7	0.32	B	1922.93	192.1	1.09	JJ
				23.78	186.5	0.32	HF	23.83	189.1	1.17	W
				24.99	193.6	0.48	HF	24.86	191.1	0.94	JJ
				25.01	193.6	0.45	HF	24.93	185.0	1.18	HF

OBSERVATIONS OF DOUBLE STARS—*continued.*

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	1854.	Σ 443			2164.	Ho 15			2445.	O Σ 92	
1924·93	49°4	8"36	W	1924·99	145°9	0"67	HF	1920·97	256°0	3"04	HF
25·91	49·1	8·47	RC	25·09	148·0	0·77	JJ	23·02	258·1	3·37	HF
25·93	50·9	8·24	W	25·18	137·7	0·77	RC	23·21	258·6	3·11	JJ
								23·92	260·6	2·87	HF
	1882.	β 1184			2274.	Σ 565			2446.	Σ 619	
1924·99	270·4	0·80	HF	1923·21	171·1	1·50	JJ				
24·99	272·6	0·62	HF	24·16	172·3	1·28	W	1923·21	129·9	...	JJ
25·01	269·7	0·55	HF	24·93	174·6	1·57	W	24·16	130·4	4·39	W
				24·94	172·8	1·40	RC	25·19	132·9	4·49	W
								25·21	131·4	4·39	W
	1944.	β 263			2275.	Hu 305			2464.	O Σ 93	
1924·94	77·5	0·76	RC	1923·01	273·1	1·87	HF				
24·99	76·4	1·10	HF	24·99	273·2	1·94	HF	1921·15	31·4	...	JJ
24·99	75·5	0·84	HF	25·09	271·3	2·35	JJ	22·08	30·4	0·51	HF
25·01	73·7	1·07	HF	25·10	272·6	1·88	HF	24·09	35·0	0·52	HF
								25·10	30·9	0·42	HF
	2027.	O Σ 531			2295.	Hu 441			2518.	AG 89	
1923·16	113·1	1·23	RC	1923·01	47·7	1·68	HF				
23·91	108·5	1·10	W	23·99	45·1	1·81	HF	1923·91	357·0	2·15	W
23·92	113·1	1·07	HF	25·10	47·5	1·72	HF	24·09	357·3	2·30	HF
24·93	114·2	1·23	HF					24·18	359·1	2·61	RC
	2034.	Σ 493			2319.	Ho 332			2551.	Σ 648	
1922·04	90·2	1·36	HF	1923·01	130·4	1·33	HF				
22·10	92·0	1·33	HF	24·99	133·2	1·22	HF	1923·02	65·7	4·17	HF
23·91	91·5	1·77	W	25·10	125·9	1·06	HF	23·92	66·8	4·63	HF
25·09	90·1	1·54	HF					24·01	67·8	4·69	W
					2320.	Ho 333		24·04	67·2	4·65	JJ
	2084.	β 547		1921·09	161·5	2·68	JJ		2706.	Wn 2	
1822·08	357·6	1·00	HF	24·99	160·2	2·63	HF				
23·10	361·5	1·02	HF	25·10	158·0	2·41	HF	1922·15	164·5	2·39	W
23·15	357·4	1·07	HF					24·09	164·4	2·12	HF
24·09	356·5	0·93	HF		2336.	Σ 589		24·18	164·6	2·07	RC
	2093.	O Σ 77		1922·08	292·4	4·12	HF		2721.	Ho. 226	
1923·02	258·3	0·48	B	22·10	292·2	4·18	HF				
24·94	232·6	0·45	RC	23·91	292·6	4·43	W	1922·11	239·6	0·82	B
24·99	244·7	0·49	HF	24·09	291·3	4·20	HF	23·02	243·7	0·62	B
25·01	248·7	0·48	HF					23·22	240·3	0·94	JJ
					2375.	Σ 609		25·18	236·9	0·87	RC
	2154.	O Σ 82		1922·10	73·0	2·09	HF	25·19	241·0	0·78	JJ
1921·12	62·9	0·67	HF	23·91	74·5	2·57	W		2740.	β 890	
22·01	60·2	0·70	HF	24·09	74·6	2·26	HF				
24·09	55·5	0·75	HF					1920·97	286·4	1·13	HF
25·10	48·9	0·75	HF		2435.	Σ 616		23·22	287·0	1·29	JJ
				1923·02	357·5	5·35	HF	23·92	286·8	1·01	HF
				23·92	357·7	5·40	HF	24·04	288·6	0·83	HF
				23·96	359·5	5·42	HF	25·01	286·4	1·10	HF
				25·04	355·2	5·49	JJ		2758.	Σ 719	
1920·97	33·5	4·17	HF		2444.	Ho 222					
23·21	37·9	4·34	JJ					1920·97	328·5	1·00	HF
23·81	36·4	4·33	W	1920·97	222·2	2·23	HF	21·15	334·2	1·30	JJ
23·92	35·3	3·92	HF	24·04	225·1	1·52	JJ	23·92	327·9	0·97	HF
23·96	33·5	3·80	HF	25·18	218·7	1·88	RC	25·18	320·2	1·15	RC
25·09	36·4	4·20	JJ	25·19	220·3	1·95	JJ	25·19	329·9	1·19	JJ
								25·22	328·0	0·93	JJ

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
1925·18	279 ¹ . 114 ⁰ ·1	Ho 335 3 ²⁴	RC	1923·31	3484. 270 ⁰ ·2	Σ 936 1 ⁰⁵	HF	1921·22	3876. 212 ⁰ ·3	Σ 1037 0 ³⁵	HF
25·19	117 ⁵ ·5	3 ⁶²	JJ	23·96	270 ⁰ ·0	1 ⁴²	W	21·25	217 ⁶ ·6	0 ²⁰	HF
25·22	117 ⁶ ·6	3 ⁸⁵	JJ	25·04	274 ² ·2	1 ²⁹	W	23·10	203 ⁸ ·8	0 ²⁰	HF
								23·24	214 ⁹ ·9	0 ²⁴	HF
								23·25	211 ⁶ ·6	0 ³⁰	HF
1923·22	2812. 208 ⁵	β 1267 0 ⁸⁴	JJ	1923·31	3515. 281 ⁰ ·0	Σ 945 0 ⁶⁵	HF		3970. 211 ² ·2	Σ 1066 6 ⁸³	HF
24·04	207 ¹ ·1	0 ⁷⁴	JJ	24·29	275 ⁴ ·4	0 ⁶²	W	1921·24	210 ³ ·3	6 ⁹⁷	JJ
25·09	212 ¹ ·1	0 ⁷⁴	W	25·34	280 ⁴ ·4	0 ⁶⁷	HF	23·14	209 ⁴ ·4	6 ⁸⁰	JJ
25·22	212 ⁴ ·4	0 ⁶²	JJ					23·17	213 ⁹ ·9	6 ⁵⁷	HF
								23·21	213 ³ ·3	6 ⁵⁴	RC
1920·97	2826. 353 ⁸	Σ 736 2 ²²	HF	1921·24	3518. 38 ⁵	O Σ 152 0 ⁶⁸	HF		4065. 152 ¹ ·1	Σ 1093 0 ⁵⁵	HF
23·22	352 ⁰ ·0	2 ²⁴	JJ	23·13	39 ⁰ ·0	0 ⁷⁵	HF	1923·31	158 ⁰ ·0	0 ⁶⁴	W
23·31	349 ⁵ ·5	2 ¹⁸	HF	23·22	34 ² ·2	1 ⁰⁵	JJ	23·31	153 ⁷ ·7	0 ⁶⁶	HF
23·96	355 ¹ ·1	1 ⁹⁸	HF	23·24	38 ⁵ ·5	0 ⁶⁸	HF	25·34	157 ⁹ ·9	0 ⁷⁸	JJ
				23·25	37 ⁴ ·4	0 ⁷⁷	HF	25·35	151 ⁸ ·8	0 ⁷¹	HF
				24·02	37 ⁶ ·6	0 ⁸⁰	JJ				
1920·97	2835. 260 ¹	Σ 742 3 ²³	HF						4122. 213 ⁷ ·7	Σ 1110 4 ⁷⁶	RC
20·99	260 ² ·2	3 ⁴⁵	HF	1923·29	3559. 110 ⁰ ·0	Σ 948 1 ⁷⁸	JJ	1923·11	213 ⁵ ·5	5 ³¹	JJ
24·04	259 ⁸ ·8	3 ³⁹	HF	23·31	103 ³ ·3	1 ⁵⁹	HF	23·22	213 ⁹ ·9	5 ⁰⁷	JJ
24·19	260 ³ ·3	3 ⁰⁵	HF	24·01	105 ⁶ ·6	1 ⁴¹	HF	23·29	214 ³ ·3	4 ⁷⁰	RC
				25·35	104 ⁷ ·7	1 ⁶⁶	HF	24·02			
1923·02	2866. 67 ⁷	O Σ 112 0 ⁷⁷	W						4130. 329 ⁴ ·4	O Σ 175 1 ⁰⁷	JJ
23·22	62 ⁹ ·9	0 ⁸⁸	JJ	1921·33	3678. 30 ⁶ ·6	O Σ 159 0 ⁶⁹	B	1923·14	329 ² ·2	0 ⁸⁹	JJ
23·31	62 ⁵ ·5	0 ⁵⁴	HF	23·31	25 ³ ·3	0 ⁷⁵	HF	23·29	330 ⁶ ·6	0 ⁶⁵	HF
23·92	62 ⁶ ·6	0 ⁶⁶	HF	25·35	26 ⁶ ·6	0 ⁸⁰	HF	23·31	322 ⁰ ·0	0 ⁶⁶	RC
25·01	59 ⁸ ·8	0 ⁶⁴	HF					23·33			
1923·22	2902. 160 ⁰	Σ 774 2 ³⁹	JJ	1923·10	3692. 156 ⁷	Σ 982 6 ⁶³	HF		4211. 178 ⁰ ·0	Σ 1130 0 ⁹⁴	JJ
24·09	157 ⁸ ·8	2 ³²	HF	23·21	155 ⁶ ·6	6 ³⁷	HF	1921·18	169 ¹ ·1	1 ¹⁸	JJ
25·10	160 ² ·2	2 ³⁶	RC	24·08	155 ¹ ·1	6 ⁵⁴	RC	23·14	176 ⁶ ·6	1 ⁰³	RC
				24·19	156 ⁰ ·0	6 ⁹⁶	JJ	23·23	170 ³ ·3	0 ⁷⁷	HF
1923·25	3003. 180 ⁰	Σ 799 0 ⁸⁴	HF						4226. 234 ⁸ ·8	O Σ 179 6 ⁹⁰	HF
23·31	181 ⁷ ·7	0 ⁸⁰	HF	1923·31	3793. 153 ⁰	Σ 1009 3 ⁴¹	HF	1923·32	233 ³ ·3	6 ³²	RC
23·92	177 ¹ ·1	0 ⁹⁴	HF	23·33	152 ⁵ ·5	3 ⁴⁶	RC	24·08	235 ⁸ ·8	7 ¹³	RC
25·01	177 ⁰ ·0	0 ⁹⁹	HF	24·07	148 ² ·2	3 ⁴¹	RC	24·18	234 ¹ ·1	6 ⁸¹	JJ
				24·31	152 ² ·2	3 ⁵⁰	HF	24·19	236 ⁸ ·8	6 ⁰²	HF
				25·35	152 ⁹ ·9	3 ²⁸	HF	25·30			
1923·02	3017. 143 ⁸	Σ 807 2 ⁵¹	W						4333. 238 ⁶ ·6	Σ 1157 1 ¹³	RC
23·02	142 ³ ·3	2 ⁰⁵	HF	1924·01	3873. 158 ² ·2	Σ 1032 5 ⁶⁴	W	1923·23	237 ⁸ ·8	1 ⁰¹	W
23·92	145 ⁷ ·7	2 ¹⁸	HF	24·13	158 ¹ ·1	5 ⁷⁸	W	24·13	239 ⁷ ·7	1 ²³	W
25·01	149 ⁸ ·8	2 ³⁴	HF	25·00	156 ⁶ ·6	5 ²²	W	25·10			
1924·01	3142. 275 ⁷	O Σ 131 1 ⁶⁴	W						4377. 328 ⁰ ·0	Σ 1171 2 ⁵⁰	HF
24·04	281 ⁷ ·7	1 ⁵⁴	JJ	1923·34	111 ³ ·3	2 ⁵⁸	JJ	1921·25	328 ⁷ ·7	2 ³⁵	W
25·22	285 ³ ·3	1 ⁴⁸	JJ	24·04	109 ⁰ ·0	2 ⁴²	HF	24·09	333 ⁰ ·0	2 ⁵⁸	JJ
				25·34	113 ¹ ·1	2 ⁴⁷	HF	24·12			
				25·35	105 ¹ ·1	2 ⁴¹	HF				

OBSERVATIONS OF DOUBLE STARS—*continued.*

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	4452.	Σ 1187			5003.	Σ 1332			5397.	Σ 1426	
1923.22	36°7	2.47	JJ	1921.24	20°2	5.81	HF	1922.34	286°4	0.77	HF
23.32	40.8	2.20	HF	21.24	24.2	6.02	JJ	23.25	287.1	0.72	HF
23.33	38.4	2.40	RC	23.17	23.3	5.79	W	24.26	283.4	0.78	RC
24.12	38.5	2.34	JJ	23.18	20.9	5.92	JJ	25.25	286.0	0.95	HF
	4492.	Σ 1202			5023.	O Σ 199			5409.	O Σ 216	
1921.21	313.4	2.29	HF	1923.31	130.0	5.62	W	1922.34	77.2	0.90	HF
21.22	316.2	2.22	HF	23.39	123.9	5.60	HF	22.35	74.2	0.92	HF
23.14	319.5	2.41	JJ	25.34	126.9	5.67	JJ	24.26	71.9	0.71	RC
23.18	316.7	2.25	JJ								
	4526.	Σ 1205			5032.	Σ 1339			5422.	Σ 1428	
1922.99	176.1	1.29	W	1923.10	72.6	1.41	HF	1923.39	82.8	3.18	HF
23.31	174.0	1.22	W	23.34	65.6	1.42	W	24.13	86.1	3.21	W
23.33	173.0	1.32	RC	23.39	65.5	1.35	HF	24.17	87.2	3.33	W
				25.34	65.5	1.29	JJ				
	4730.	β 209			5161.	Ho 368			5433.	Σ 1434	
1924.29	357.3	1.45	W	1923.18	111.8	1.12	JJ	1922.35	278.7	6.34	HF
25.31	360.9	1.58	W	23.22	112.7	1.03	JJ	22.37	276.0	6.38	HF
25.34	358.1	1.42	JJ	24.13	110.6	0.82	W	23.25	276.5	6.37	HF
				24.21	107.8	1.33	RC	23.35	275.9	6.21	HF
	4821.	Σ 1287			5223.	O Σ 208			5437.	O Σ 218	
1923.18	91.1	1.65	JJ					1922.34	79.4	0.78	HF
24.09	93.4	1.65	W	1921.33	318.2	0.30	B	22.35	82.2	0.68	HF
24.12	86.8	2.01	JJ	23.39	326.4	0.46	HF	25.25	86.1	0.80	HF
25.30	94.1	1.89	HF	25.44	334.6	0.40	HF	25.32	81.9	0.78	HF
								25.33	84.0	0.60	HF
	4866.	O Σ 196			5281.	O Σ 210			5501.	Σ 1454	
1923.31	358.0	7.19	W	1922.43	260.5	0.90	HF	1923.22	320.3	2.67	JJ
23.39	361.4	7.16	HF	23.31	261.9	1.04	W	23.34	318.6	2.64	W
25.34	361.4	7.24	JJ	23.39	264.2	0.94	HF	23.39	318.0	2.56	RC
				24.13	263.1	0.84	W				
				25.34	260.6	1.13	JJ				
	4890.	Σ 1300			5349.	O Σ 213			5560.	O Σ 229	
1921.22	194.4	5.40	HF	1922.37	87.6	0.59	HF	1922.43	310.0	0.84	HF
21.24	193.5	5.38	JJ	22.39	84.7	0.63	HF	23.24	307.2	0.68	HF
23.14	193.1	5.86	JJ	23.25	92.3	0.75	HF	23.25	306.3	0.72	HF
23.18	192.0	5.38	JJ	25.38	92.1	0.68	HF	23.31	312.1	0.92	W
24.19	193.0	5.02	JJ					23.39	312.8	0.78	HF
	4951.	O Σ 197			5395.	Σ 1425			5571.	Ho 374	
1924.12	65.8	1.42	JJ	1925.13	358.0	4.69	W	1923.37	274.2	4.26	JJ
24.26	69.3	1.33	RC	25.16	361.1	4.62	W	24.26	269.0	3.40	RC
25.25	64.2	1.45	HF	25.34	356.6	4.68	JJ	24.28	268.7	3.53	JJ
	4990.	β 455			5388.	Σ 1424			5572.	Σ 1476	
1924.12	70.1	1.81	JJ	1922.37	117.2	3.81	HF	1922.15	3.2	2.24	W
24.26	76.3	1.59	RC	22.39	119.2	3.98	HF	23.37	6.1	2.21	JJ
25.25	73.2	1.51	HF	23.17	118.5	3.86	W	24.28	6.1	2.39	JJ
				23.18	117.3	4.15	JJ	25.16	3.1	2.27	W
								25.25	2.7	2.10	HF

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
1924·25	5573·	β 915		1922·34	5757·	Σ 1534		1922·18	6053·	Σ 1606	
25·16	230°0	1°60	RC	22·35	323°9	5°22	HF	22·47	328°6	0°87	W
25·25	233·3	1°21	W	24·25	325·8	5°00	HF	23·34	324·7	1°09	W
25·38	231·1	1°12	HF	24·26	328·3	5°23	RC	23·35	324·0	0°87	W
	238·8	1°04	HF	24·26	325·0	4°80	HF		323·4	0°99	JJ
				24·26	327·5	5°16	RC				
				24·28	326·7	5°03	JJ				
1922·38	5584·	Ho 376		1923·33	5785·	Σ 1542		1922·39	6076·	Σ 1613	
23·34	219·5	2°98	HF	23·39	266·0	3°29	W	22·43	14·1	1°39	W
23·37	216·4	2°86	W	23·49	263·1	3°04	HF	23·35	14·9	1°23	HF
	219·4	2°77	JJ	24·45	258·7	2°95	HF	24·42	13·4	1°60	JJ
					260·6	3°18	JJ		14·5	1°38	JJ
1923·37	5599·	O Σ 230		1922·43	5793·	Σ 1543		1922·34	6097·	Σ 1621	
24·25	23·6	9°09	JJ	23·35	360·7	5°07	HF	22·35	144·9	2°03	HF
24·26	27·2	9°03	RC	23·39	360·2	5°31	JJ	23·33	147·0	1°71	HF
24·36	27·0	8°60	RC		357·2	5°37	HF		151·0	2°03	HF
	24·2	8°54	RC								
1924·25	5600·	β 597		1924·34	5803·	β 340		1924·25	6129·	β 27	
25·16	48·8	0°87	RC	25·25	9·7	4°10	JJ	24·33	109·0	3°62	RC
25·39	49·8	0°82	W	25·32	5·3	4°16	JJ	24·38	103·5	2°98	HF
25·40	44·8	0°81	JJ	25·40	3·7	3°82	HF	25·36	105·0	2°94	RC
	49·2	0°84	JJ		11·8	4°50	JJ	25·39	103·9	3°39	JJ
								25·40	106·2	3°55	JJ
								25·42	102·9	3°68	JJ
1923·28	5633·	Σ 1500		1923·35	5805·	O Σ 234			105·3	3°36	JJ
24·34	309·8	1°64	W	23·39	168·4	...	JJ	6136·	Ho 536		
25·16	309·9	1°42	JJ	23·48	172·7	0°43	HF	1922·47	99·4	3°57	W
	309·0	1°88	W	25·42	180·3	0°55	HF	23·27	95·6	3°78	JJ
					176·2	0°48	HF	25·34	97·8	3°55	JJ
1923·37	5657·	Ho 48		1923·33	5859·	O Σ 237		6151·	Ho 53		
24·26	6·6	1°74	JJ	23·39	262·0	1°54	W	1922·34	297·4	2°32	HF
25·39	7·1	1°98	RC	23·49	259·6	1°15	HF	24·25	298·0	2°03	RC
25·40	5·3	1°80	JJ	24·42	255·5	1°52	HF	24·26	300·5	2°57	RC
	8·6	1°53	JJ	24·45	256·1	1°54	JJ	24·27	303·2	2°27	JJ
1923·31	5679·	Σ 1510			254·6	1°78	JJ				
23·37	334·2	4°93	W		5888·	β 917		6174·	Σ 1643		
23·48	335·3	4°87	JJ	1924·25	173·7	3°71	RC	1922·39	28·5	2°34	W
23·49	336·1	4°70	HF	24·26	175·4	3°96	RC	22·43	32·4	2°11	HF
	333·2	4°60	HF	24·33	177·7	3°77	HF	23·25	28·7	2°28	HF
				24·34	173·1	3°71	JJ	23·28	27·7	2°20	W
1924·25	5694·	H 2562						23·33	32·8	1°95	HF
25·25	297·9	1°75	RC		5996·	Σ 1589		6209·	β 797		
25·34	303·8	...	JJ	1922·39	158·3	2°39	W	1922·34	164·6	0°71	B
25·36	302·1	1°42	JJ	23·33	158·6	2°42	W	25·32	166·0	0°65	HF
25·39	301·5	1°47	JJ	24·42	162·0	2°30	JJ	25·33	164·0	0°62	HF
25·40	304·0	1°52	JJ		160·5	2°21	JJ				
	303·5	1°72	JJ								
1924·34	5747·	β 791		1922·30	6030·	Σ 1601		1922·47	6210·	Ho 537	
25·25	195·9	1°98	JJ	23·30	310·3	2°21	W	24·25	177·4	1°44	W
25·40	208·8	1°92	JJ	23·40	309·4	2°07	HF		181·1	1°42	RC
	200·7	1°80	JJ		309·3	2°09	HF	25·42	177·2	1°50	W

OBSERVATIONS OF DOUBLE STARS—*continued*.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	6245.	β 924			6411.	β 931			6625.	β 801	
1924.38	37.9	4.31	RC	1924.35	203.0	5.01	JJ	1924.38	323.3	2.46	HF
25.31	30.4	3.98	W	24.36	205.8	5.04	JJ	24.40	324.7	2.62	W
25.33	30.9	3.50	HF	24.38	205.4	4.39	HF	24.42	328.5	2.91	JJ
25.36	32.9	4.22	JJ	24.38	202.6	5.01	RC	24.48	320.2	2.28	HF
25.38	34.0	3.70	RC	24.39	205.7	5.10	JJ	25.36	326.6	2.74	JJ
25.41	33.8	4.20	JJ	24.41	206.2	4.69	JJ	25.42	325.5	2.71	JJ
	6271.	β 459			6476.	Ho 260			6619.	Σ 1781	
1925.36	294.7	4.08	JJ					1921.43	290.0	0.78	HF
25.38	290.3	3.46	RC	1922.30	343.4	0.69	W	22.41	288.1	0.78	HF
25.42	294.3	4.06	JJ	22.44	346.2	0.99	W	23.33	294.4	0.87	HF
	6312.	O Σ 256		24.25	347.2	0.89	RC		6630.	O Σ 270	
1922.34	81.2	0.66	B	25.39	355.8	0.81	JJ	1922.44	360.1	7.25	HF
22.40	81.2	0.60	HF	25.42	355.0	0.74	JJ	25.36	360.4	6.92	JJ
23.33	84.8	0.67	HF		6490.	β 237		25.38	360.4	7.03	HF
25.38	82.6	0.69	RC	1923.44	204.7	2.95	HF	25.38	358.8	7.25	RC
25.42	83.8	0.87	JJ	24.38	200.3	2.83	RC	25.39	358.9	6.90	JJ
	6345.	β 112		24.38	203.4	2.59	HF	25.42	359.8	6.75	JJ
1924.25	298.1	2.20	RC	24.48	206.6	2.81	HF		6668.	Σ 1788	
24.27	297.0	2.47	JJ		6500.	β 113		1924.38	83.3	2.88	RC
25.31	292.4	2.13	W					25.31	84.1	2.83	W
25.36	294.7	1.83	JJ	1922.38	214.3	1.40	W	25.36	83.8	3.26	JJ
25.38	291.8	2.01	HF	23.28	216.8	1.51	W		6671.	O Σ 272	
25.39	295.6	1.95	JJ	23.33	222.5	1.51	HF	1921.46	17.1	1.70	HF
25.41	296.9	2.03	JJ		6524.	O Σ 269		22.56	17.9	1.81	JJ
	6367.	β 929		1921.28	229.8	0.17	B	23.33	12.2	1.51	HF
1922.34	208.1	0.48	B	21.51	237.1	0.31	B		6687.	β 937	
22.40	207.0	0.58	HF	23.33	235.2	0.31	HF	1922.51	125.1	0.93	RC
23.33	208.5	0.62	HF	23.48	220.0	0.31	HF	22.56	119.2	0.97	JJ
	6373.	Σ 1716		24.57	249.2	0.31	HF	23.33	118.0	0.74	HF
1921.38	153.0	2.27	HF		6527.	Σ 1758		23.49	120.0	0.83	HF
22.35	151.5	2.46	HF						6690.	β 30	
23.33	152.8	2.54	HF	1922.30	302.1	3.96	W	1923.44	198.7	8.42	HF
	6385.	β 1083		24.29	301.0	3.57	HF	24.38	202.2	8.16	RC
1924.25	214.7	6.28	RC	24.53	303.8	3.84	W	25.36	200.4	8.01	JJ
24.34	223.6	6.62	JJ		6541.	β 933		25.39	199.2	8.21	JJ
24.35	218.2	5.99	JJ	1923.48	30.1	2.35	HF	25.42	199.3	8.19	JJ
25.34	219.1	6.18	JJ	23.49	27.3	2.33	HF		6766.	β 224	
	6395.	O Σ 260		24.27	28.7	2.41	JJ	1923.36	54.6	0.42	HF
1922.30	134.0	0.68	W	24.28	28.7	2.45	HF	23.44	51.2	0.53	HF
22.34	133.2	0.47	B		6571.	Σ 1769		24.38	53.3	0.53	HF
23.28	133.4	0.63	W					24.41	47.5	0.41	HF
23.33	132.2	0.68	HF	1923.33	29.4	2.20	HF	24.48	47.3	0.49	HF
	6398.	Σ 1722		23.49	28.4	1.98	HF		6776.	Σ 1820	
1923.33	340.1	3.05	HF	24.28	31.6	1.77	HF	1922.71	84.1	2.39	HF
23.36	341.1	3.12	HF	24.54	30.8	2.05	HF	22.72	83.3	2.11	HF
23.39	341.0	2.99	RC					24.53	84.8	2.18	W

OBSERVATIONS OF DOUBLE STARS—*continued.*

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	6795.	Σ 1825			7040.	β 31			7222.	β 32	
1923:37	167 ^o 2	4 ["] 31	W	1923:36	199 ^o 1	1 ["] 40	HF	1922:47	18 ^o 0	2 ["] 47	HF
23:39	168 ^o 6	4 ["] 20	RC	23:44	205 ^o 5	1 ["] 82	HF	23:47	17 ^o 3	2 ["] 51	HF
23:44	167 ^o 4	4 ["] 23	HF	23:47	203 ^o 7	1 ["] 59	HF	24:38	17 ^o 6	2 ["] 64	RC
				24:38	200 ^o 2	1 ["] 56	HF				
	6810.	Σ 1832			7065.	O Σ 289			7276.	O Σ 296	
1923:44	140 ^o 6	0 ["] 58	HF					1922:71	294 ^o 9	1 ["] 86	HF
24:41	137 ^o 9	0 ["] 51	HF	1924:28	114 ^o 2	4 ["] 45	HF	22:72	294 ^o 0	1 ["] 74	HF
24:48	139 ^o 4	0 ["] 61	HF	24:34	112 ^o 4	4 ["] 75	JJ	23:68	299 ^o 9	1 ["] 66	JJ
25:38	140 ^o 5	0 ["] 58	HF	24:35	111 ^o 6	5 ["] 10	RC	23:76	300 ^o 0	1 ["] 69	RC
25:42	137 ^o 9	0 ["] 72	JJ	24:36	113 ^o 1	4 ["] 39	HF	24:28	297 ^o 5	1 ["] 69	HF
				24:40	117 ^o 7	4 ["] 34	HF				
	6820.	O Σ 281		24:54	118 ^o 9	4 ["] 28	HF		7317.	Σ 1956	
1921:42	167 ^o 9	1 ["] 77	JJ					1922:71	43 ^o 8	1 ["] 81	HF
23:36	161 ^o 1	1 ["] 48	HF	7120.	Σ 1909			22:72	36 ^o 3	1 ["] 39	HF
23:44	166 ^o 7	1 ["] 54	HF	1922:71	246 ^o 8	3 ["] 73	HF	23:68	40 ^o 4	1 ["] 83	JJ
24:34	160 ^o 6	1 ["] 89	JJ	22:72	245 ^o 5	3 ["] 69	HF	24:28	38 ^o 9	1 ["] 25	HF
				24:28	239 ^o 4	3 ["] 29	HF	24:75	43 ^o 6	1 ["] 66	HF
				24:53	243 ^o 8	3 ["] 47	W				
	6879.	Ho 542			7122.	Σ 1908		1923:49	309 ^o 0	1 ["] 63	HF
1922:34	248 ^o 7	0 ["] 59	B	1922:71	144 ^o 6	1 ["] 33	HF	24:37	306 ^o 3	1 ["] 48	W
23:36	255 ^o 1	0 ["] 54	HF	22:72	145 ^o 6	1 ["] 13	HF	24:53	305 ^o 8	1 ["] 53	W
24:41	241 ^o 6	0 ["] 77	HF	23:49	149 ^o 9	1 ["] 30	HF				
24:48	255 ^o 8	0 ["] 47	HF	24:28	143 ^o 5	1 ["] 32	HF	7341.	Σ 1963		
25:38	255 ^o 5	0 ["] 59	HF					1921:53	292 ^o 8	4 ["] 68	HF
25:39	238 ^o 8	0 ["] 59	JJ		7136.	β 349		22:41	292 ^o 4	4 ["] 78	W
25:42	249 ^o 7	0 ["] 75	JJ					23:37	294 ^o 6	4 ["] 76	W
				1923:44	35 ^o 5	3 ["] 81	HF	23:48	297 ^o 1	4 ["] 60	W
	6880.	Σ 1846		25:43	43 ^o 7	2 ["] 86	JJ	23:49	296 ^o 1	4 ["] 95	HF
				25:45	35 ^o 9	3 ["] 02	HF				
1924:34	107 ^o 8	5 ["] 38	JJ		7177.	Ho 60			7380.	β 240	AB
24:38	110 ^o 7	4 ["] 72	RC					6923:44	130 ^o 9	2 ["] 05	HF
24:41	108 ^o 0	4 ["] 25	HF	1921:28	25 ^o 3	0 ["] 29	B	23:47	132 ^o 6	1 ["] 93	HF
25:36	112 ^o 6	4 ["] 55	JJ	21:51	29 ^o 3	0 ["] 40	B	23:50	133 ^o 0	2 ["] 17	JJ
25:38	108 ^o 3	4 ["] 37	HF	24:40	25 ^o 8	0 ["] 42	HF	24:38	138 ^o 0	2 ["] 04	RC
				24:75	26 ^o 8	0 ["] 45	HF				
	6931.	β 941			7191.	Σ 1926			7433.	Σ 1985	
1922:34	208 ^o 8	0 ["] 51	B					1922:41	341 ^o 6	6 ["] 02	W
24:41	199 ^o 5	0 ["] 58	HF	1922:71	259 ^o 0	1 ["] 05	HF	22:47	341 ^o 8	6 ["] 10	HF
24:48	203 ^o 3	0 ["] 51	HF	22:72	260 ^o 7	0 ["] 65	HF	23:44	341 ^o 4	5 ["] 98	HF
25:38	190 ^o 8	0 ["] 65	HF	24:28	252 ^o 6	0 ["] 87	HF				
25:45	204 ^o 7	0 ["] 47	HF	24:75	251 ^o 5	1 ["] 07	HF		7439.	Ho 399	
	6975.	Σ 1871			7192.	O Σ 295		1922:54	119 ^o 2	3 ["] 50	JJ
1922:56	296 ^o 6	...	JJ	1922:71	130 ^o 7	0 ["] 82	HF	23:50	119 ^o 4	2 ["] 87	JJ
22:71	294 ^o 1	1 ["] 93	HF	22:72	133 ^o 8	0 ["] 68	HF	24:37	119 ^o 4	3 ["] 27	W
22:72	293 ^o 6	1 ["] 86	HF	24:28	133 ^o 4	0 ["] 80	HF	24:56	119 ^o 5	3 ["] 24	RC
24:28	297 ^o 0	1 ["] 75	HF	24:40	131 ^o 5	1 ["] 10	HF				
	7038.	Ho 389			7212.	Σ 1934			7454.	Σ 3101	
1922:41	95 ^o 3	1 ["] 47	RC	1923:76	28 ^o 2	7 ["] 55	RC	1921:51	68 ^o 6	2 ["] 40	JJ
23:36	94 ^o 8	1 ["] 40	HF	24:28	23 ^o 4	7 ["] 46	HF	22:47	66 ^o 1	1 ["] 97	HF
23:37	91 ^o 9	1 ["] 53	W	24:53	25 ^o 8	7 ["] 55	W	23:44	65 ^o 8	2 ["] 28	HF
								23:50	66 ^o 8	2 ["] 20	JJ
								24:48	64 ^o 2	1 ["] 86	HF

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	7487.	Σ 1998			7712.	β 42			7863.	β 823	
1921.45	5.9	0.90	B	1923.51	37.9	8.15	RC	1922.58	28.3	0.93	HF
21.49	2.9	0.74	B	24.38	42.5	8.65	HF	23.60	29.3	0.95	W
23.50	5.9	1.29	JJ	24.40	39.8	7.84	JJ	24.48	32.1	0.90	HF
				25.40	40.6	7.44	JJ	24.54	32.9	0.86	HF
	7490.	Σ 2006						24.54	32.4	0.78	HF
1920.82	191.6	1.65	JJ		7721.	Hu 487		24.57	31.2	0.92	HF
20.72	189.7	1.35	HF						7878.	Σ 2130	
23.68	195.8	1.45	JJ	1922.60	23.0	0.33	B				
24.28	187.7	1.35	HF	24.54	22.4	0.46	HF	1922.72	119.2	2.30	HF
				25.51	18.3	0.77	RC	23.68	117.5	2.15	JJ
	7498.	β 811						23.76	118.7	2.16	RC
1923.44	218.2	3.64	HF		7763.	β 43			7887.	β 124	
24.56	216.9	3.59	RC								
25.51	216.0	3.28	RC	1923.47	240.5	1.09	HF	1924.48	253.8	0.86	HF
25.52	220.0	3.69	W	23.50	237.0	1.29	JJ	25.61	269.2	1.15	JJ
	7619.	β 951		24.54	241.6	0.93	HF	25.67	269.1	1.15	JJ
1921.76	44.3	0.93	HF	25.40	245.8	1.16	JJ		7898.	Σ 2135	
22.74	46.2	0.84	HF								
23.36	43.7	0.86	HF		7777.	$O \Sigma$ 315		1922.41	181.7	7.48	W
								22.54	181.0	7.59	D
	7632.	Σ 2054		1922.55	147.9	0.58	HF	22.54	179.6	7.55	JJ
1922.72	355.3	1.05	HF	22.58	149.3	0.69	HF	23.45	179.9	7.60	W
24.28	355.5	0.78	HF	23.44	155.6	0.63	HF	23.47	182.4	7.41	HF
25.52	354.0	1.36	W	23.47	145.7	0.55	HF		7915.	β 44	
					7785.	β 821.					
	7638.	β 813		1923.72	312.7	1.12	HF	1923.72	17.1	5.48	HF
1923.49	172.1	1.01	HF	24.37	314.8	1.39	W	24.38	19.3	5.15	HF
23.50	175.1	1.13	JJ	24.38	309.3	1.45	HF	24.40	17.6	5.62	JJ
23.72	165.9	0.98	HF	24.40	318.5	1.51	JJ	24.40	19.7	5.38	HF
24.40	167.3	0.98	HF	24.40	315.2	1.09	HF		7945.	β 629	
					7809.	Hu 160					
	7640.	β 815						1923.72	331.6	1.01	HF
1924.34	335.2	6.91	JJ	1922.60	206.1	0.51	B	24.37	341.4	1.15	W
24.40	335.0	6.16	JJ	23.49	201.5	0.55	HF	24.40	343.9	1.22	JJ
25.52	333.3	6.51	W	24.54	196.8	0.52	HF	24.40	342.4	0.98	HF
				25.45	201.2	0.48	HF		7952.	β 45	
	7668.	β 816			7804.	β 954					
1923.72	223.7	5.17	HF	1924.54	175.1	1.98	HF	1923.68	289.6	4.88	JJ
24.37	223.3	5.11	W	24.56	182.8	1.86	RC	23.71	286.5	4.80	HF
24.40	220.7	5.63	JJ	25.51	176.7	2.32	RC	24.40	291.5	4.87	JJ
24.40	220.4	4.82	HF	25.61	181.0	2.38	JJ	24.40	292.2	5.09	HF
								24.40	289.0	5.04	W
	7669.	β 817			7847.	β 822			7955.	β 628	
1923.49	327.3	0.93	HF	1925.45	230.4	1.51	W	1922.60	336.1	0.43	B
23.50	329.8	1.00	JJ	25.51	230.2	1.18	RC	23.71	337.0	0.33	HF
23.72	325.7	0.97	HF	25.61	228.5	1.47	JJ	24.40	340.3	0.53	HF
								24.75	339.5	0.67	HF
	7691.	β 952			7856.	β 357			7964.	β 630	
1923.68	146.1	3.39	JJ	1924.56	293.1	0.86	RC	1923.71	226.3	1.36	HF
24.37	143.5	3.63	W	25.51	297.6	1.35	RC	24.40	226.0	1.53	JJ
24.40	144.7	3.70	JJ	25.61	302.1	1.23	JJ	24.40	221.4	1.33	HF
24.40	144.3	3.37	HF	25.67	299.9	1.06	JJ	24.75	225.9	1.53	HF

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	7975.	β 959			8138.	Ho 560			8321.	Σ 2267	
1923.44	254.3	3.57	HF	1922.60	91.6	0.72	B	1921.76	248.1	0.75	HF
24.48	258.2	3.03	HF	22.78	90.7	0.57	B	23.67	245.5	0.96	JJ
25.40	258.5	3.54	JJ	23.67	97.4	0.87	JJ	23.76	243.5	1.23	RC
				24.40	89.4	0.72	HF	24.40	245.8	0.99	HF
				25.40	90.2	1.07	JJ	24.47	244.5	1.13	JJ
	7979.	β 1248									
1923.44	170.8	8.42	HF		8139.	Σ 2210			8331.	β 1127	
25.40	169.7	8.03	JJ					1924.40	111.3	1.04	HF
25.51	170.4	8.36	RC	1924.75	119.3	2.99	HF	24.75	125.2	0.87	HF
25.53	167.9	8.35	RC	25.52	119.7	2.95	W	25.77	123.4	1.16	JJ
				25.77	123.8	2.85	JJ				
	7994.	β 46							8337.	Σ 2275	
1923.44	202.6	2.07	HF		8162.	A. Clark 7		1921.76	133.4	0.81	HF
25.45	199.4	1.81	HF					24.40	135.2	0.51	HF
25.51	202.5	1.89	RC	1925.61	78.1	0.84	JJ	24.47	141.0	0.61	HF
				25.66	85.3	0.93	JJ				
				25.67	74.7	1.10	JJ				
	8004.	Σ 2163							8340.	Σ 2272	
1921.76	86.6	1.72	HF		8180.	β 632		1922.78	132.6	5.84	JJ
22.41	91.8	1.56	W					23.53	134.6	6.07	RC
23.76	88.9	1.70	RC	1924.40	164.5	5.78	JJ	23.53	129.6	5.81	JJ
24.75	88.3	1.59	HF	24.47	163.5	5.88	JJ	23.56	129.6	5.95	JJ
				25.61	163.4	5.95	JJ	24.48	123.3	6.15	HF
	8017.	Σ 2165						24.54	125.7	5.89	HF
1921.74	56.7	8.39	HF		8235.	β 130		25.61	127.1	6.14	JJ
23.50	57.4	8.12	HF						8370.	O Σ 524	
23.51	55.9	8.28	HF	1923.76	128.1	1.74	RC	1921.68	42.2	0.23	HF
				24.47	121.1	1.88	JJ	21.68	40.0	0.30	HF
	8055.	O Σ 331		24.48	120.8	1.58	JJ	23.72	42.4	0.29	HF
1922.55	344.2	0.74	HF					25.45	38.6	0.29	HF
22.58	342.5	0.81	HF		8252.	β 417					
23.47	340.9	0.80	HF					8372.	A. Clark 15		
24.54	340.2	0.82	HF	1924.40	282.8	1.48	HF	1923.56	363.1	1.34	JJ
24.54	347.0	1.08	HF	24.47	283.9	1.39	JJ	23.57	356.9	1.63	JJ
				24.48	283.0	1.87	JJ	23.58	354.8	1.35	JJ
	8057.	Σ 2180		24.75	279.7	1.64	HF	24.47	360.6	1.59	JJ
1924.37	260.7	3.26	W						8391.	O Σ 344	
24.45	263.4	3.34	JJ		8259.	Ho 73		1924.75	144.2	2.10	HF
24.75	263.4	3.00	HF					25.44	143.5	2.34	W
25.77	262.5	3.17	JJ	1921.74	208.4	1.41	HF	25.77	147.1	2.04	JJ
				24.40	212.2	1.57	HF				
	8095.	β 961		24.48	212.1	1.98	RC				
1924.54	141.7	7.69	HF	24.75	217.3	1.71	HF		8440.	Σ 2298	
25.40	143.1	8.06	JJ					1921.76	176.5	2.25	HF
25.51	138.0	8.16	RC		8261.	Ho 424		23.50	180.5	2.06	HF
25.61	142.2	7.65	JJ					23.76	175.3	2.32	RC
25.61	140.6	8.16	JJ	1925.61	205.8	1.11	JJ	24.40	179.8	1.80	HF
25.66	137.4	7.93	JJ	25.65	203.5	1.22	JJ				
				25.66	207.4	1.34	JJ		8514.	β 641	
	8118.	Σ 2199									
1924.37	75.0	1.74	W		8298.	β 1202		1923.47	344.4	1.10	HF
24.75	83.0	1.62	HF	1922.62	353.0	0.65	HF	23.50	340.5	0.94	HF
25.44	79.6	1.82	W	23.47	353.5	0.60	HF	23.56	346.8	0.97	RC
25.77	80.9	1.72	JJ	24.54	357.0	0.69	HF	23.56	340.4	0.86	HF
								23.56	345.0	1.09	JJ

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
1922.68	8534.	H1 83		1921.76	8909.	β 137		1923.59	9116.	β 139	
23.47	93.2	0.63	HF	22.78	138.8	1.17	HF	23.64	141.4	0.88	JJ
23.72	101.9	0.55	HF	23.50	138.3	1.22	JJ	23.70	137.5	1.04	JJ
	88.4	0.70	HF	23.53	134.1	1.24	HF	24.54	139.2	0.58	W
				23.56	140.7	1.37	JJ	24.68	138.7	0.59	HF
					137.6	1.41	RC		145.4	0.70	HF
	8568.	β 464							145.0	0.68	HF
1924.54	107.1	0.99	HF	1924.54	8927.	Hu 676		1924.47	9137.	Σ 2486	
25.53	108.7	1.04	HF	25.61	77.1	1.17	HF	24.51	217.5	9.27	JJ
25.67	110.5	1.05	HF	25.65	76.8	1.28	JJ	24.52	216.0	8.97	JJ
					77.4	1.28	HF		216.9	8.43	JJ
	8620.	β 420									
1924.40	279.5	1.71	HF		8953.	β 649			9167.	O Σ 371	
24.47	276.1	1.69	JJ	1923.50	3.0	1.46	HF	1924.48	158.2	0.80	JJ
24.48	276.2	1.78	JJ	23.55	4.3	1.54	HF	25.56	151.0	0.88	RC
	8662.	O Σ 359		24.40	4.2	1.56	HF	25.61	154.3	0.81	JJ
1922.62	338.3	0.34	HF					25.66	160.9	0.84	JJ
22.74	322.2	0.36	HF		9014.	β 466			9173.	Σ 2491	
23.72	321.1	0.30	HF	1923.56	162.0	1.72	RC	1921.78	224.4	1.17	HF
24.68	324.4	0.42	HF	23.56	166.7	2.10	JJ	21.81	221.5	1.07	HF
24.75	325.2	0.29	HF	23.58	165.9	1.69	JJ	23.55	220.0	1.07	HF
25.45	309.6	0.39	HF	23.59	162.3	1.64	JJ	23.58	222.3	1.27	JJ
	8740.	β 136						23.61	217.5	1.13	HF
1923.53	5.7	5.11	RC		9024.	β 359			9194.	β 248	
23.56	6.6	4.80	JJ	1923.53	79.8	4.76	RC	1923.55	128.6	1.75	HF
23.57	6.9	4.40	JJ	23.56	79.8	4.63	RC	23.61	131.2	1.69	HF
23.58	6.7	4.55	JJ	23.56	80.0	4.43	JJ	23.72	130.8	1.63	HF
	8755.	β 645		23.59	81.1	4.41	JJ		9192.	β 1256	
1923.56	304.9	8.96	JJ					1923.70	33.2	0.72	W
23.57	305.9	8.37	JJ	1921.78	257.9	0.82	HF	25.65	38.0	0.77	HF
23.58	304.5	8.91	JJ	23.55	256.8	0.80	HF	25.67	38.9	0.89	HF
25.61	306.4	9.50	JJ	23.55	258.9	0.77	W		9213.	β 360	
	8783.	Σ 2382		23.59	262.6	0.78	JJ	1923.50	67.1	6.13	HF
1922.74	9.7	2.87	RC					23.53	70.5	6.92	JJ
22.78	3.8	3.39	JJ		9038.	Σ 2454		24.50	70.2	6.58	W
23.51	5.6	2.54	HF	1922.62	312.9	3.76	W	24.51	69.6	6.39	JJ
23.53	6.2	3.16	JJ	23.51	307.7	3.44	HF		9341.	β 424	
23.87	10.6	2.75	JJ	23.55	311.2	3.55	HF	1923.50	38.4	2.68	HF
	8785.	Σ 2383						23.55	38.3	2.53	HF
1922.74	117.7	1.98	RC		9071.	Ho 443		23.56	40.3	2.58	HF
22.78	116.2	2.63	JJ	1923.59	115.9	2.80	JJ	24.47	37.4	2.39	HF
23.51	114.3	2.01	HF	23.70	117.0	2.92	W	24.47	38.9	2.80	JJ
23.53	116.2	2.13	JJ	23.72	117.8	2.83	HF		9387.	β 143	
23.87	114.2	1.99	JJ					1923.87	192.2	1.81	JJ
	8861.	Σ 2410			9074.	Ho 444		24.51	194.4	2.01	JJ
1923.87	92.9	1.52	JJ	1922.62	75.7	1.09	W	25.45	193.9	2.15	W
24.52	94.0	1.54	JJ	23.56	75.9	1.11	RC				
25.44	92.8	1.56	W	23.59	75.8	1.22	JJ				

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	9384.	β 976			9605.	Σ 2579			9783.	Σ 2606	
1925-65	99.5	1.72	HF	1924-49	277.2	1.64	RC	1922-62	131.5	1.05	W
25-66	97.0	2.11	JJ	24-55	277.0	1.39	HF	23-53	138.0	1.25	JJ
25-67	104.0	1.50	HF	24-59	276.4	1.63	HF	23-55	137.6	1.23	W
								23-56	137.0	1.00	HF
	9424.	β 53			9633.	β 829			9801.	β 1133	
1923-56	251.3	1.28	RC	1923-70	317.2	0.72	W				
23-62	248.8	1.83	W	25-65	308.4	0.96	HF	1923-64	337.0	0.92	HF
23-72	249.6	1.51	HF	25-67	305.4	0.84	HF	24-52	331.9	0.88	W
24-73	249.4	1.52	HF					24-55	340.0	0.72	HF
25-53	247.0	1.22	HF								
	9459.	O Σ 377		1924-47	296.4	0.69	JJ		9811.	β 1258	
1922-78	34.8	...	JJ	24-55	299.6	0.60	HF	1923-58	151.1	1.31	W
23-50	40.4	0.72	HF	24-59	302.3	0.47	HF	23-64	152.8	1.49	HF
23-55	38.7	0.89	HF	24-60	298.3	0.48	HF	24-80	151.1	1.07	HF
24-47	33.8	0.71	HF					25-56	155.7	1.35	RC
24-47	40.1	0.87	JJ					25-58	151.9	1.19	JJ
	9466.	β 249		1923-55	348.5	3.78	HF		9823.	β 439	
1923-64	133.5	1.17	JJ	23-56	346.1	3.57	HF	1923-64	238.5	3.10	HF
25-65	137.1	1.00	HF	23-59	348.8	3.78	JJ	25-56	236.3	2.99	RC
25-66	136.5	1.21	JJ	23-60	347.2	3.87	W	25-58	240.1	2.92	JJ
	9481.	β 144		23-61	348.1	3.63	HF				
1923-50	350.5	6.65	HF		9678.	β 978			9872.	β 426	
23-53	351.6	6.45	JJ	1923-55	234.0	0.87	HF	1923-87	306.5	5.73	JJ
23-56	350.0	6.32	RC	23-56	235.9	0.87	HF	24-48	310.0	5.57	JJ
23-56	349.9	6.37	HF	23-59	237.0	0.95	JJ	24-49	309.5	5.70	RC
				23-61	236.2	0.83	HF				
	9524.	β 145			9686.	β 979			9873.	β 427	
1923-55	268.1	0.80	HF					1923-87	335.6	2.99	JJ
24-47	273.3	0.77	HF	1922-65	333.5	2.42	JJ	24-48	339.4	2.94	JJ
25-56	278.2	0.98	RC	23-55	332.3	2.36	HF	24-49	339.0	2.87	RC
	9531.	O Σ 380		23-59	333.8	2.48	JJ		9884.	β 57	
1924-68	78.4	0.62	HF	23-61	332.2	2.48	HF				
24-73	71.2	0.75	HF		9765.	Σ 2605		1925-56	110.2	2.15	RC
25-53	73.4	0.60	HF					25-58	118.8	2.48	JJ
25-65	79.2	0.60	HF	1923-87	180.9	3.36	JJ	25-65	119.0	2.22	HF
25-66	77.5	0.75	JJ	25-44	176.8	3.23	W		9973.	β 150 BC	
	9565.	O Σ 383		25-45	181.6	3.17	W				
1924-48	25.4	0.90	JJ		9759.	β 425		1923-58	182.5	1.74	W
24-49	21.6	0.78	HF	1920-55	240.1	1.15	HF	23-64	181.4	1.76	HF
25-81	18.0	1.07	RC	20-56	239.0	1.17	HF	24-47	176.2	1.48	HF
				23-59	242.3	1.54	JJ	24-48	184.2	1.99	HF
	9602.	Σ 2576		23-61	241.0	1.33	HF	24-49	192.5	1.54	RC
1920-82	283.1	1.62	HF		9767.	β 981		24-50	187.4	1.51	HF
20-82	279.7	1.97	JJ						9979.	O Σ 400	
21-78	274.1	1.76	HF	1920-55	110.5	3.05	HF	1920-89	336.4	0.34	B
23-53	272.0	1.86	JJ	23-59	106.1	2.80	JJ	22-78	333.4	0.49	B
23-55	272.0	1.59	HF	23-61	110.7	3.21	HF	24-55	330.0	0.48	HF

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	10017.	Σ 2653			10213.	Δ 22			10509.	Σ 2727	
1921.78	261.4	2.68	HF	1923.87	149.8	2.79	JJ	1922.75	268.9	10.61	HF
22.66	266.8	2.49	JJ	24.47	141.1	2.88	HF	23.67	269.6	10.64	JJ
23.55	261.4	2.30	HF	24.50	142.5	2.86	HF	23.76	269.3	10.37	JJ
23.64	260.5	2.39	HF	24.55	147.5	2.57	HF				
				24.57	144.2	2.68	HF				
	10041.	$O \Sigma$ 403			10220.	Ho 130			10520.	β 65	
1924.52	167.8	0.69	W					1923.64	186.5	1.19	HF
24.55	170.9	0.74	HF	1923.67	288.2	1.87	JJ	23.72	189.0	1.15	HF
24.59	171.4	0.70	HF	23.87	290.2	1.59	JJ	23.77	187.2	1.40	HF
				24.50	288.7	1.94	HF	24.69	182.7	1.45	HF
	10076.	β 441		24.55	289.3	2.07	HF	24.80	187.5	1.13	HF
1924.72	64.5	5.97	RC	24.57	290.3	1.68	HF				
24.80	62.6	6.10	HF	24.59	289.1	1.65	HF				
25.58	65.9	5.79	JJ	24.60	288.8	1.65	HF				
					10247.	β 62		1923.55	158.3	1.35	W
	10115.	β 1206		1923.56	135.3	1.10	HF	23.76	160.5	1.15	JJ
1923.60	358.0	2.01	W	23.61	133.8	1.18	HF	24.48	161.6	1.28	JJ
23.64	355.3	2.01	HF	23.67	135.1	1.12	JJ				
23.66	358.4	2.22	JJ	23.71	137.5	1.03	HF				
24.50	360.3	1.78	HF					10566.	β 67		
24.55	357.6	1.87	HF					1923.60	295.4	1.66	W
				1923.64	344.2	0.80	HF	23.66	294.9	1.66	JJ
	10134.	β 431		23.76	348.6	0.92	JJ	23.71	292.9	1.44	HF
1923.55	39.3	0.60	W	23.77	349.0	0.88	HF	24.50	293.4	1.84	HF
23.64	34.4	0.66	HF	24.69	347.8	0.96	HF	24.55	296.7	1.51	HF
24.50	39.3	0.65	HF	24.77	347.0	1.03	HF	24.57	293.6	1.39	HF
24.55	35.5	0.60	HF	24.81	347.9	0.88	JJ	24.60	295.7	1.47	HF
24.57	34.0	0.49	HF								
24.59	33.2	0.57	HF					10581.	Ho 144		
24.60	37.1	0.63	HF	1923.76	128.6	1.95	JJ	1924.72	178.0	0.68	RC
				24.69	132.2	1.72	RC	24.77	170.7	0.48	HF
	10148.	β 1259		24.72	128.7	2.45	RC	25.07	166.7	0.31	HF
1922.70	174.0	0.40	B	24.81	132.0	2.16	JJ				
23.61	166.6	0.37	HF					10590.	$O \Sigma$ 416		
23.64	159.8	0.48	HF	1922.84	175.4	7.16	HF	1923.95	131.3	7.82	RC
24.55	166.6	0.45	HF	23.64	174.1	6.85	HF	24.90	131.6	7.98	RC
24.57	163.6	0.39	HF	23.66	172.8	7.27	HF	24.91	130.2	7.74	HF
24.59	161.9	0.37	HF	23.67	172.5	6.96	JJ				
					10385.	β 435		10591.	$O \Sigma$ 417		
	10192.	Ho 457		1923.66	119.5	2.63	HF	1922.68	29.3	0.84	B
1920.82	61.1	1.99	HF	23.76	116.7	2.94	JJ	22.70	25.0	0.69	B
22.66	59.5	2.00	JJ	23.77	115.7	2.61	HF	22.78	29.5	0.68	B
23.56	59.5	1.82	HF	24.69	115.1	2.65	HF	23.64	34.2	0.58	HF
23.64	60.9	1.97	HF	24.69	113.7	2.98	RC	23.71	35.9	0.75	HF
					10439.	β 673		24.55	31.0	0.63	HF
	10203.	β 432		1923.64	295.1	3.96	HF	24.57	29.4	0.66	HF
1923.58	191.7	1.42	W	24.69	294.0	3.52	RC	24.59	30.9	0.72	HF
23.66	196.6	1.47	JJ	24.81	296.6	3.28	JJ				
24.48	198.7	1.35	JJ					10608.	$O \Sigma$ 418		
								1920.82	114.3	1.35	JJ
								20.82	113.0	1.04	HF
								23.55	108.7	1.37	W
								23.56	109.3	1.09	HF
								23.64	109.1	1.10	HF

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	10610.	O Σ 419			10819.	β 681			11210.	Ho 166	
1923.64	27.7	1.41	HF	1923.77	235.0	2.71	HF	1921.68	33.9	0.22	B
23.66	31.4	1.66	JJ	24.69	238.6	2.67	RC	22.70	39.6	0.24	B
24.91	29.4	1.41	HF	24.73	237.1	2.39	HF	23.64	18.1	0.30	HF
25.69	29.5	1.69	JJ					25.75	21.5	0.37	HF
	10669.	β 68			10851.	β 1261			11214.	Σ 2822	
1923.87	151.9	2.00	JJ	1923.77	159.1	1.85	HF	1922.76	137.8	1.23	HF
24.90	150.5	1.70	RC	24.69	153.5	1.75	HF	23.60	142.4	1.15	W
25.45	156.3	1.87	W	24.73	149.8	1.76	HF	23.66	138.0	1.01	HF
25.69	152.5	1.72	JJ	24.77	143.8	1.50	HF	23.66	147.4	1.49	JJ
	10689.	β 69			10871.	β 162		23.71	142.8	1.06	HF
1923.77	319.6	0.87	HF	1923.55	243.2	1.28	W		11261.	Ho 466	
24.69	323.4	1.05	HF	23.60	245.4	1.22	W	1923.60	135.4	2.23	W
24.69	326.4	0.86	RC	23.64	240.9	1.07	HF	23.64	136.9	1.98	HF
24.72	318.5	1.10	HF	24.57	244.2	1.16	HF	23.66	135.1	1.81	HF
	10690.	Σ 2746		24.59	243.4	1.05	HF	24.74	138.9	1.81	RC
1923.64	300.1	1.06	HF	24.60	240.9	1.07	HF	25.70	134.8	2.08	HF
24.50	298.3	1.01	HF		10879.	Ho 153		25.75	136.7	1.98	HF
24.59	302.9	1.09	HF	1923.55	117.6	1.10	W		11283.	β 692	
24.73	303.4	0.99	HF	23.64	119.3	1.03	HF	1924.73	6.8	2.61	HF
	10749.	O Σ 527		24.57	123.2	1.13	HF	25.70	12.4	2.35	HF
1922.67	246.7	0.34	HF	25.75	122.8	0.90	HF	25.75	8.7	2.82	HF
22.69	254.7	0.29	HF		10896.	Σ 2786			11380.	β 1214 A.B	
24.77	258.5	0.42	HF	1922.74	184.3	2.62	HF	1925.69	199.0	1.29	HF
25.67	265.4	0.35	HF	22.84	186.7	2.58	HF	25.70	206.7	1.34	HF
	10773.	Σ 2762		23.76	186.7	2.58	JJ	25.75	204.2	1.28	HF
1922.76	307.5	3.69	HF	23.77	185.0	2.32	HF		11523.	Σ 2868	
22.78	311.3	3.46	HF		10922.	O Σ 437		1922.77	355.2	1.32	JJ
23.64	311.1	3.22	HF	1922.76	36.8	1.69	JJ	22.86	356.2	1.02	HF
23.64	310.1	3.41	HF	23.58	37.8	2.05	W	23.66	352.5	1.29	JJ
	10809.	O Σ 430		23.64	34.2	1.64	HF	23.71	356.6	1.06	HF
1922.76	206.4	1.36	HF	23.65	34.4	1.36	HF		11590.	Σ 2878	
23.58	200.0	1.30	W	23.66	36.7	1.80	JJ	1922.84	124.4	1.13	HF
23.64	202.3	1.30	HF	23.71	35.4	1.52	HF	24.74	126.2	1.46	RC
23.66	201.3	1.31	HF		10969.	β 164		25.72	119.6	1.57	HF
23.66	206.5	1.21	HF	1924.77	242.4	0.52	HF	25.85	121.9	1.16	HF
23.71	198.5	1.30	HF	25.67	231.6	0.65	HF		11618.	Σ 2889	
	10841.	O Σ 432		25.85	235.5	0.71	HF	1922.70	196.8	2.33	HF
1922.83	122.6	1.46	JJ		11168.	O Σ 448		23.64	197.6	2.28	HF
24.91	121.6	1.12	HF	1922.76	225.4	0.97	JJ	23.66	195.4	2.51	JJ
25.57	119.7	1.34	W	23.64	226.4	0.65	HF	23.71	195.1	2.06	HF
	10846.	A. G. Clark 13		23.66	225.1	0.66	HF		11650.	β 1216	
1923.64	160.8	0.87	HF	23.66	225.0	0.82	JJ	1922.77	307.1	0.88	JJ
24.57	165.1	1.17	HF	23.71	226.4	0.70	HF	23.64	305.1	0.69	HF
25.70	164.5	1.09	HF		11179.	Ho 165		23.66	301.2	...	JJ
25.75	164.9	1.01	HF	1921.68	75.5	0.42	B	23.71	301.9	0.53	HF
				22.70	66.1	0.42	B	23.78	303.3	0.58	HF
				24.77	72.6	0.45	HF				

OBSERVATIONS OF DOUBLE STARS—continued.

Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.	Date.	Angle.	Dist.	Obs.
	11687.	Ho 182			11920.	β 176			12468.	O Σ 500	
1923.60	133.0	1.62	W	1924.73	44.2	2.05	HF	1923.82	325.7	0.48	HF
23.66	131.0	1.89	JJ	25.57	47.0	2.15	W	24.69	334.8	0.65	W
24.69	135.4	1.74	RC	25.68	46.5	2.24	W	24.73	324.1	0.53	HF
24.74	125.7	1.51	RC	25.75	43.0	2.16	HF	24.77	329.1	0.57	HF
24.77	130.8	1.53	HF								
	11690.	Σ 2900			11968.	Σ 2944			12510.	β 858	
1922.76	172.4	1.00	HF	1921.76	264.0	3.57	W				
22.85	180.6	0.97	HF	23.81	263.8	3.22	W	1923.71	250.9	0.58	HF
23.64	173.9	1.14	HF	24.72	261.2	2.92	RC	23.78	251.4	0.57	HF
23.71	170.8	1.06	HF	25.86	264.8	2.92	JJ	23.81	255.0	0.55	HF
23.78	172.1	1.03	HF					23.82	252.3	0.53	HF
24.77	182.0	1.03	HF		12104.	Hol. 56					
24.84	170.9	1.22	HF	1924.69	112.1	0.92	W		12532.	A. G. Clark 14	
	11741.	Σ 2910		24.73	108.4	1.04	HF				
1920.90	328.1	5.76	HF	25.70	108.1	1.05	W	1920.88	204.9	0.94	HF
22.84	330.1	5.73	HF					22.87	202.1	1.17	W
23.64	328.1	5.44	HF	1924.69	12178.	Σ 2979		23.71	204.0	1.24	HF
23.66	339.1	5.45	JJ	25.68	224.3	2.81	W	23.78	208.3	1.06	HF
23.71	337.3	5.40	HF	25.75	222.5	2.80	W	23.81	207.4	0.99	HF
	11743.	Σ 2909			221.8	2.63	HF				
1920.88	303.6	3.14	JJ		12201.	β 385			12562.	β 995	
21.76	302.1	3.09	W	1923.71	116.3	0.37	HF	1923.82	225.1	0.41	HF
24.72	304.2	2.80	RC	23.78	117.8	0.45	HF	24.73	233.0	0.87	HF
25.86	299.6	2.85	JJ	23.81	116.0	0.41	HF	25.77	232.2	0.70	HF
	11793.	Ho 475		23.82	120.7	0.45	HF				
1921.80	321.7	0.69	W		12290.	β 80			12601.	Σ 3042	
22.77	320.6	1.17	JJ	1920.87	254.1	0.37	B	1920.89	86.1	5.05	HF
23.64	317.9	0.78	HF	20.89	252.2	0.64	B	23.80	88.7	4.92	RC
23.71	317.4	0.66	HF	25.85	257.8	0.84	HF	23.81	89.8	4.97	HF
	11795.	β 381		25.88	259.4	0.84	HF				
1925.57	230.6	1.54	W		12317.	Σ 3006			12605.	β 728	
25.70	225.4	1.35	HF	1923.60	162.6	5.85	W	1923.82	361.4	0.84	HF
25.75	225.7	1.38	HF	23.81	160.5	5.46	HF	24.73	357.8	1.19	HF
	11908.	Σ 2935		23.82	160.4	5.75	HF	25.68	360.5	1.19	W
1923.64	117.0	0.88	HF		12432.	β 720			12675.	Σ 3050	
23.71	118.8	0.68	HF	1921.82	185.9	0.43	B	1920.89	226.4	1.92	HF
25.72	110.8	0.96	HF	23.71	199.0	0.29	HF	23.71	225.3	1.66	HF
25.85	112.5	0.80	HF	23.78	202.5	0.39	HF	23.79	228.5	1.78	RC
25.88	108.9	0.86	HF	23.81	198.0	0.29	HF	23.80	228.4	1.81	RC
				23.82	204.4	0.36	HF	23.81	227.0	1.65	HF
				23.84	198.1	0.39	HF				