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COMMUNICATION FROM THE OBSERVATORY AT LEIDEN.

New Southern Double stars, seventh list, *) by *W. H. van den Bos*.

B.	C.P.D.	1900		θ	ρ	mag.	spec.	Remarks
		α	δ					
1088**)	47 1818	8 ^h 1 ^m 19 ^s -47° 29'	223° 23'	10.3, 10.5	F5			
1089	37 1923	5 32 37 30	204 0.4	9.6, 9.9	B5			
1090	43 2247	5 34 44 3	134 1.2	9.0, 13.0				
1091	28 2845	5 36 29 0	343 1.0	10.0, 11.5	Ao			
1092	43 2285	7 42 44 1	253 0.4	10.2, 10.5	A2			
1093	28 2904	8 53 28 54	92 0.6	10.6, 11.1	Ao			
1094	28 2994	14 14 28 42	54 2.3	9.5, 13.0				
1095	28 3014	15 16 28 29	140 2.4	9.6, 11.8				
1096	28 3063	18 6 28 42	300 2.1	10.5, 10.7				
1097	37 2263	18 8 37 26	33 3.7	9.6, 12.1				
1098	28 3145	22 10 29 3	54 0.4	10.6, 11.1	Ao			
1099	43 2584	23 10 43 37	175 2.4	9.6, 10.6	A2	2585, 9.0 red, is 1' south		
1100	20 3720	23 12 20 31	191 0.4	9.7, 10.0				
1101	43 2636	25 44 43 50	216 0.2	6.6, 6.8	B3			
1102	20 3780	25 53 20 25	122 2.3	9.4, 11.9				
1103	19 3531	27 0 19 50	103 0.7	9.4, 11.9	G5			
1104	37 2494	27 23 37 14	80 0.4	8.2, 9.4	Ao			
1105	29 2765	37 6 29 44	143 1.0	8.5, 10.6	B9			
1106	27 3360	37 39 27 51	109 3.2	9.1, 14.5	A2			
1107	27 3392	40 45 27 43	78 0.9	10.0, 10.8	Ao			
1108	27 3438	46 3 27 16	235 4.2	10.5, 12.5	A3			
1109	19 3863	47 18 20 3	17 0.7	9.2, 11.4				
1110	45 3420	9 1 49 45 57	306 2.8	9.8, 11.8	A5			
1111	40 3200	5 6 40 18	161 1.1	10.5, 10.6	F2			
1112	40 3204	5 17 40 12	174 2.3	9.3, 13.0	G5			
1113	29 2933	5 42 29 57	106 0.3	10.1, 10.2		BC comp. of HN 96		
1114	45 3476	5 59 45 7	78 2.1	8.8, 12.8	Ao			
1115	40 3263	8 40 40 7	23 0.3	9.5, 9.6	Go			
1116	37 3255	10 52 37 10	70 0.7	10.4, 10.8				
1117	45 3563	11 30 45 57	28 1.3	10.0, 10.0	F8			
1118	33 2549	12 43 33 42	340 3.6	10.0, 11.0				
1119	56 2073	13 37 57 5	140 4.	9.2, 14.0	B9			
1120	37 3307	13 34 37 36	40 0.6	9.8, 9.8	Fo			
1121	33 2581	20 0 33 48	61 4.6	9.5, 10.5				
1122	41 3702	22 33 41 49	159 0.2	7.8, 7.8	Ao			
1123	19 4188	23 56 19 9	67 1.0	8.7, 10.8	Go			
1124	19 4198	24 23 20 0	254 2.9	8.0, 13.3	Fo			

*) Previous lists: *B. A. N.* III, 107, p. 187; III, p. 213; III, p. 229; IV, 126, p. 45; 139, p. 109; 153, p. 235.

***) Probably not identical with *Hu* 1433, though I find that star single. HUSSEY's identification is 47°1836, 1^m foll., 21' south and his measure is 44°.1, 2".45, Δm 1.0, 1913.2, 1 n , differing too much from *B* 1088.

B.	C.P.D.	1900		θ	ρ	mag.	spec.	Remarks		
		α	δ							
	$^{\circ}$	$^{\text{h}}$	$^{\text{m}}$	$^{\text{s}}$	$^{\circ}$	$'$				
1125	37 3541	9	24	52	-37	24	113 0'3	9.2, 9.2	F8	
1126	31 2741		24	55	31	20	137 3'9	9.5, 13.0		
1127	19 4204		25	3	19	57	126 2'3	9.2, 13.2	Go	
1128	19 4215		25	40	19	22	36 0'2	9.2, 9.5	Fo	
1129	40 3607		26	19	40	52	66 0'3	10.5, 10.7		
1130	37 3639		31	44	38	6	72 2'0	10.5, 10.7		
1131	37 3659		33	4	37	57	285 2'8	9.5, 12.0	Fo	
1132	37 3675		35	42	37	7	252 4'8	9.4, 12.9	F8	
1133	41 3920		35	42	41	12	284 0'6	10.0, 10.3		BC comp. of <i>h</i> 3920
1134	41 3979		40	50	42	3	54 1'0	10.5, 10.7		
1135	33 2718		43	32	33	38	92 0'6	9.1, 10.1	G5	
1136	29 3137		50	21	29	14	98 0'8	8.5, 10.2	F5	
1137	45 4225		52	26	45	55	218 1'5	8.3, 13.3	Ko	
1138	29 3153		53	32	29	55	314 4'3	10.0, 12.5		
1139	46 4136		55	37	46	32	347 1'0	9.8, 11.8	Ao	
1140	31 2936		57	2	31	11	180 2'9	10.0, 11.2		
1141	41 4256		59	4	41	24	168 0'4	10.0, 10.3		
1142	31 2954	10	0	43	31	40	287 0'5	8.7, 9.9	A2	
1143	33 2814		1	24	33	42	273 0'4	9.7, 10.0	G	
1144	45 4371		1	34	45	44	100 1'1	9.4, 11.9		
1145	31 2964		2	17	31	16	189 0'6	9.7, 11.2	F2	
1146	43 4356		2	22	43	41	308 0'8	10.0, 11.5		
1147	41 4323		2	58	41	50	274 0'4	9.5, 9.7	Fo	
1148	33 2829		4	33	33	58	91 0'8	10.1, 10.3	A5	
1149	31 2976		4	49	31	15	171 1'9	10.5, 11.0		
1150	46 4322		6	10	46	35	106 4'4	9.3, 11.8		AB
							55 13'5	9.3, 11.3		AC = Gp Z 8246 + 7
1151	41 4364		6	20	42	6	189 0'4	9.6, 10.0	A3	= mag. 11.0 in HD
1152	33 2853		12	7	33	52	320 1'9	10.0, 10.7		
1153	45 4514		12	10	45	54	37 0'4	8.5, 10.0	Ao	
1154	45 4547		14	31	45	47	354 1'9	8.7, 11.2	F8	
1155	59 2060		17	0	59	10	219 4'4	10.0, 10.7		
1156	31 3042		20	55	31	39	27 1'6	9.7, 11.7		
1157	45 4685		25	1	45	56	25 0'2	9.8, 10.0	F2	
1158	43 4706		25	22	43	22	270 0'2	9.6, 10.0	A2	
1159	45 4696		25	56	45	23	288 0'4	9.4, 11.4	A2	
1160	59 2169		25	58	59	42	172 1'1	9.6, 12.6	Ao	AB
							345 5'1	12.3		AC
1161	43 4728		27	27	43	58	24 0'1	7.9, 8.4	B3	
1162	41 4665		27	50	41	38	37 4'4	10.5, 11.1		
1163	46 4625		29	47	47	1	29 2'5	8.6, 11.6	Ao	
1164	45 4763		30	5	45	58	82 0'5	8.8, 9.6	Ko	
1165	59 2236		31	1	59	23	129 4'6	8.6, 14.0	B9	
1166	41 4718		32	30	42	1	277 1'3	10.1, 12.1	A2	
1167	43 4823		32	43	43	10	274 3'6	8.5, 14.0		
1168 *)	46 4719		35	54	46	27	119 2'1	9.5, 10.3	Ao	
1169	43 4867		36	18	43	14	305 1'2	7.9, 10.4	A2	
1170	43 4878		37	15	43	37	231 1'5	9.3, 12.3	Ko	
1171	36 4606		43	22	36	12	323 1'1	10.0, 10.3		
1172	45 4947		45	19	45	13	153 5'1	10.0, 10.5		
1173	22 4839		48	23	23	3	130 1'2	10.5, 10.7	F8	
1174	45 5060		53	3	45	54	74 0'8	9.6, 9.8	G5	
1175	35 4523		53	31	35	8	214 0'4	8.4, 8.8	Go	found while meas. Howe 69

*) possibly identical with NZ 18, 46°4726, vaguely described as 12^m.3 — 12^m.3, 115°, 1 $\frac{1}{2}$ ".

B.	C.P.D.	1900		θ	ρ	mag.	spec.	Remarks
		α	δ					
1176	43 5077	10 ^h 57 ^m 9 ^s	-44° 5'	212° 4"		7.9, 13.5	F5	
1177	60 2473	58 24	60 17	62 1.7		9.7, 11.2		
1178	60 2533	11 2 50	60 33	224 2.1		9.5, 12.5		
1179	42 5084	3 20	42 33	164 1.6		9.0, 11.5	Go	
1180	60 2546	3 54	60 17	254 2.1		7.4, 14.0	B8	
1181	50 3994	3 59	50 37	181 3.4		9.6, 14.0	G5	
1182	60 2629	7 33	60 9	155 3.4		8.0, 12.5	B2	
1183	42 5162	9 18	42 27	349 2.0		9.0, 12.5	A2	
1184	60 2732	10 48	60 43			8.8,	Oe	multiple, see below.
1185	50 4129	14 13	50 12	206 1.5		11.5, 11.8		
1186	50 4131	14 18	50 9	256 5.0		11.2, 11.3	Ao	
1187	60 2857	17 34	60 29	57 4.8		9.5, 13.5		
1188	33 3087	18 4	34 7	88 0.6		8.8, 10.3	F5	
1189	50 4233	22 9	50 10	269 0.3		9.6, 9.9	Ao	primary of <i>h</i> 4435
1190	50 4238	22 23	50 46	33 3.2		10.3, 10.8	A5	
1191	50 4246	23 18	51 4	169 0.7		9.5, 10.1		
1192	50 4283	26 8	50 23	119 3.3		8.0, 10.5	G5	
1193	50 4320	28 32	50 22	77 2.0		8.2, 10.2	Ko	
1194	37 4792	28 43	37 56	24 3.3		10.5, 10.5		
1195	52 4725	32 50	52 49	93 1.8		9.1, 12.3	Go	
1196	39 5243	39 23	39 17	300 4.6		8.4, 10.4	Go	
1197	50 4500	41 36	51 2	194 3.2		11.0, 12.5		
1198	52 4889	44 14	52 45	15 2.5		9.2, 11.9	Ko	
1199	52 4932	46 11	52 53	258 1.0		9.0, 11.2	Ao	
1200	52 4967	47 46	52 16	94 0.3		9.4, 10.4	Ao	
1201	29 3548	50 7	29 17	284 2.0		9.6, 13.1	A5	
1202	37 4970	51 44	37 46	31 0.3		9.5, 9.8	A2	
1203	43 5608	52 45	43 10	302 0.2		8.2, 8.4	Ao	primary of <i>h</i> 4482
1204	33 3185	58 22	34 3	6 0.5		9.8, 10.3	A2	
1205	33 3191	12 1 8	33 55	132 1.2		9.2, 10.7	G5	
1206	43 5666	1 37	43 57	143 1.6		9.3, 11.8	Ko	
1207	43 5674	2 45	43 50	242 1.1		9.2, 11.2	A5	
1208	29 3583	5 46	29 37	293 4.1		8.3, 14.3	Ko	
1209	44 5910	11 41	44 39	124 2.8		9.5, 12.5	A2	
1210	44 5942	16 28	44 19	66 0.6		9.8, 11.6	F8	
1211	52 5532	17 10	52 33	52 1.0		9.7, 10.7	A2	
1212	52 5535	17 18	52 37	242 0.3		10.0, 10.2		
1213	52 5654	25 54	52 18	74 2.1		9.5, 11.5		
1214	46 5892	29 31	46 44	307 1.3		12.1, 13.1		companion of <i>h</i> 4530
1215	39 5648	33 46	39 49	69 0.3		9.3, 9.5	Go p	
1216	38 5330	47 15	38 46	307 0.2		9.0, 9.8	K2	
1217	44 6132	49 8	44 35	264 0.4		10.4, 10.4		AB
				93 5.3		9.6, 13.0		AB, C
1218	52 6033	50 7	52 34	127 2.5		8.1, 10.6	Fo	
1219	44 6155	52 39	44 14	180 2.2		9.6, 14.0	K5	
1220	52 6086	54 5	52 28	167 1.5		8.5, 10.7	Go	
1221	44 6183	55 49	44 39	45 2.8		9.9, 10.0	B9	
1222	33 3338	57 32	34 1	128 3.1		9.3, 10.1	F8	
1223	43 6031	13 2 55	43 23	153 4.7		9.6, 13.0	Ko	
1224	41 6262	7 3	41 8	237 2.9		9.0, 11.7	Fo	
1225	41 6291	13 36	41 29	8 0.4		9.4, 11.4	G5	
1226	41 6293	13 51	41 28	257 3.5		10.5, 12.0		
1227	52 6487	20 1	52 46	191 0.2		10.4, 10.8		BC A, BC = Cp 59
1228	52 6509	22 11	52 49	325 2.3		9.5, 11.0		
1229	50 6193	31 2	50 19	45 1.9		10.2, 10.2		

B.	C.P.D.	α 1900	δ	θ	ρ	mag.	spec.	Remarks
1230	52° 66' 53"	13 ^h 33 ^m 29 ^s — 52° 11'		106°	3'6"	8.0, 12.0	K2	
1231	50 6338	42 38 50 9		74	1'2	10.5, 10.5		
1232 *)	50 6403	47 20 50 57		108	1'6	9.5, 11.5		AB
				164	4'0	11.5		AC
1233	41 6511	47 30 41 8		305	0'2	8.9, 9.1	A5	
1234	50 6415	48 5 51 2		316	0'3	8.4, 9.9	K0	
1235	42 6500	55 49 42 56		86	1'5	11.0, 13.1	A0	
1236	50 6639	14 2 7 51 4		219	0'3	9.2, 9.4	F8	
1237	50 6655	3 5 50 23		91	3'7	9.3, 11.3	A0	
1238	50 6661	3 26 50 52		65	1'4	11.8, 11.8	A2	
1239	50 6735	8 3 50 26		219	2'1	9.9, 11.9	B9	
1240	42 6589	8 21 42 13		35	5'3	9.1, 13.5	K0	
1241	50 6755	8 48 50 18		189	3'6	9.6, 12.6		
1242	52 7148	13 6 52 57		29	1'8	9.3, 11.3	K0	
1243	31 3780	13 20 31 23		17	2'2	9.3, 14.5	A2	
1244	52 7165	14 50 52 13		85	1'0	9.3, 11.3	A5	
1245	50 6880	16 40 50 19		146	1'3	6.1, 10.1	K0	
1246	36 6425	21 7 36 20		157	0'2	9.7, 9.7	F8	
1247	50 6951	22 6 50 11		31	0'7	10.8, 11.0	A2	
1248	36 6445	24 41 37 4		321	3'3	9.6, 13.5	A5	
1249	33 3644	26 23 33 58		186	107'3	8.2, 10.2	K5	A, BC
				31	1'2	10.9, 11.1		BC
1250	36 6462	27 15 37 2		105	1'4	10.5, 10.6	F8	
1251 **)	45 6903	28 22 45 33		293	1'6	10.4, 12.7	F8	
1252	52 7393	32 58 52 34		323	0'3	8.3, 9.3	F5	
1253	52 7492	39 51 52 47		289	0'7	10.2, 10.5	G0	
1254	39 6425	40 40 39 23		258	0'6	10.3, 10.4	F8	
1255	50 7296	44 57 50 17		85	2'9	10.0, 11.5		
1256	42 6872	54 27 42 36		91	0'6	9.5, 10.1	F8	
1257	41 7014	56 34 41 35		21	4'4	8.9, 12.5	K0	
1258	50 7525	57 6 50 56		139	1'9	10.2, 10.8	A0	
1259	39 6467	57 30 39 57		4	4'2	9.0, 13.0		
1260	52 7803	58 13 52 44		289	1'3	10.8, 12.0	B9	
1261	42 6896	58 29 42 44		120	0'2	9.3, 11.1	G0	
1262	36 6720	59 24 36 32		14	0'9	9.6, 12.6	A0	

*) C. P. D. — 50°6400, 10.0, north preceding in the field, is a 2" pair.

**) found while measuring $H\alpha$ 1509, which is $\frac{1}{2} m$. following.