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New southern double stars, eighth list

Bos, W.H. van den

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COMMUNICATION FROM THE OBSERVATORY AT LEIDEN.

New Southern Double Stars, eighth list ¹⁾, by *W. H. van den Bos*.

Since the publication of my seventh list the mystery of the pairs Hu 1433 and B 1088 has been solved. In *La Plata Publications* I, p. 107, HUSSEY gives the identification C.P.D. $-47^{\circ}1776,8^{\text{h}}00^{\text{m}}36^{\text{s}}, -47^{\circ}46'0$ (1875). C. P. D. number and coordinates are in conflict. Increasing the right ascension by 1^{m} gives the position of $-47^{\circ}1836$ and this identification has been assumed by INNES for the *S. D. C.* In *Michigan Publications* I, p. 153, HUSSEY gives the correct identification and position, so that the designation B 1088 is now abandoned. The latter list is very nearly a reprint of the La Plata list, and obviously INNES regarded it as such. Since I found this difference I have checked the *S. D. C.* against the Michigan list, but in all other cases where the two differ the *S. D. C.* is correct. That HUSSEY gives the opposite quadrant and a difference of $1^{\circ}0$ magnitude may be due to variability, but I find that he often exaggerated the difference of magnitude compared to other observers.

The year 1928 has been strikingly poor at Johannesburg compared to 1925—27; the winter season

has given almost constantly clear skies as usual, but of a very poor standard. Nights on which accepted searches could be made were very few and part of them had to be used for the measurement of important known pairs of great difficulty. Consequently the remeasurement of neglected known pairs of an easier type has profited at the cost of the survey, but provisional searches under insufficient conditions have produced a fair number of new discoveries, admittedly of a poorer standard than usual. These provisional searches are of no statistical value, but allow the discovery and measurement of the easier pairs at an early date, so that these can be passed over in the future accepted search, thus avoiding waste of observing time under good conditions.

Early in 1928 the Lamont-Hussey Observatory at Bloemfontein has started on a similar program; full cooperation has been established between the two observatories in order to avoid, as far as possible, unnecessary duplication of work in discovery as well as remeasurement.

B.	C.P.D.	1900		θ	ρ	mag.	spec.	Remarks
		α	δ					
1263	31 3938	15 ^h 0 ^m 40 ^s	$-32^{\circ} 4'$	287	2.0	8.1, 15.0	K5	
1264	50 7623	2 4	50 29	54	1.0	8.0, 11.0	G5	
1265	33 3779	3 32	33 26	290	1.0	9.1, 9.9	A3	
1266	34 3784	4 1	33 56	37	0.6	10.7, 10.9	K0	
1267	44 7220	4 49	44 54	309	1.0	6.4, 10.4	K0	primary of Δ 178
1268	48 7201	5 13	48 32	328	1.4	9.3, 12.8	F2	
1269	52 7987	5 49	52 25	214	3.8	9.3, 13.0	A0	
1270	36 6742	5 54	36 15	83	4.6	9.0, 10.2	A2	
1271	36 6743	5 54	36 57	303	1.0	9.4, 9.6	F5	
1272	48 7217	6 3	48 41	154	3.3	10.8, 11.5	F5	
1273	42 6957	7 38	42 20	120	0.5	9.5, 10.2	A3	AB
				134	16.2	10.5		AB, C C is 6958
1274	38 6079	7 45	38 7	45	0.4	7.5, 8.3	A2	
1275	42 6966	8 20	43 1	58	2.1	10.1, 10.4		

¹⁾ Previous lists: *B. A. N.* III, 107, p. 187; 111, p. 213 114, p. 229; IV, 126, p. 45; 139, p. 109; 153, p. 235; 155, p. 253.

B.	C.P.D.	1900		θ	ρ	mag.	spec.	Remarks
		α	δ					
1276	38° 6090	15 ^h 9 ^m 7 ^s - 39° 2'	288° 43'	8.9, 13.5	A0			
1277	33 3803	10 22 33 31	175 1.6	10.0, 10.0	A2			
1278	35 6532	11 6 35 35	123 2.1	10.3, 12.7	G0	AB		
			154 18.1	10.6	G0	AC	C is 6533	
1279	38 6112	11 15 38 25	99 3.5	8.6, 12.5	F8			
1280	44 7291	12 10 44 8	296 0.8	10.4, 13.4	F5			
1281	31 4028	13 7 31 40	95 41.3	8.7, 10.7	A2	AB		
	4029		345 3.6	10.7, 12.2		BC		
1282	52 8165	13 30 52 20	132 2.1	10.0, 10.7				
1283	33 3832	14 52 33 30	83 2.1	9.5, 14.5				
1284	52 8214	14 55 52 8	310 0.8	9.1, 11.6				
1285	36 6784	16 15 36 7	189 0.3	10.9, 11.4	F5			
1286	47 7098	17 11 47 35	44 0.3	10.0, 10.2	A2			
1287	52 8278	17 28 52 22	320 0.4	9.8, 10.1	F0			
1288	48 7440	17 33 48 14	301 0.3	8.3, 8.4	B9	AB		
			342 8.8	7.6, 11.5		AB, C		
1289	42 7035	17 53 42 58	52 3.4	9.4, 10.6	F5			
1290	52 8294	18 0 52 48	317 0.5	9.9, 11.5	A2			
1291	[35 10273]	18 42 35 44	28 0.4	10.5, 11.0			Cor DM number	
1292	50 8105	22 43 50 7	266 2.1	10.1, 12.1	A2			
1293	44 7422	23 12 44 47	74 2.4	10.0, 11.0				
1294	31 4134	24 13 31 58	40 1.4	9.7, 10.0	G5			
1295	38 6215	24 55 38 37	302 0.8	9.0, 11.5	G0			
1296	50 8171	25 16 50 37	142 1.4	10.0, 12.5	A0			
1297	33 3887	26 31 33 37	93 0.5	9.9, 10.1	G5			
1298	42 7092	27 53 42 17	219 2.9	10.4, 12.9	F0			
1299	38 6229	29 42 38 31	152 0.4	8.2, 9.0	F8			
1300	42 7107	30 36 43 0	227 0.3	10.3, 10.7	G5			
1301	39 6774	31 38 39 37	9 1.7	9.4, 9.9	F8			
1302	31 4175	33 23 31 33	262 2.2	10.0, 10.4	F8			
1303	41 7315	36 40 41 25	127 1.5	10.8, 11.2	G5			
1304	38 6263	37 25 38 46	207 2.1	9.3, 9.4	G0			
1305	33 3913	38 36 33 53	23 3.4	9.7, 11.5	G0			
1306	31 4221	41 22 31 51	264 0.5	11.0, 12.0	F5			
1307	30 4209	43 46 30 11	127 1.3	10.0, 12.4	F5			
1308	33 3942	47 59 33 46	295 0.3	9.7, 9.9	F8			
1309	42 7241	48 32 43 3	357 0.3	9.3, 9.5	F0			
1310	49 8764	48 48 49 6	86 4.0	9.0, 13.5	B8			
1311	49 8793	50 11 49 23	291 0.4	9.6, 10.4	B9			
1312	33 3953	51 52 33 47	175 41.0	9.3, 10.8	B9	A, BC		
			128 0.7	10.8, 11.1		BC		
1313	30 4263	55 44 30 26	149 0.3	10.9, 11.1	F5			
1314	31 4310	59 11 31 58	137 0.4	9.9, 10.1	F2			
1315	31 4313	16 0 10 31 4	75 0.4	10.5, 10.7	F2			
1316	31 4320	2 13 31 39	188 0.3	9.7, 9.9	F0			
1317	31 4358	11 52 31 22	100 1.3	10.0, 11.0	G5			
1318 ¹⁾	33 4009	12 0 33 46	131 0.4	9.6, 9.6	G0			
1319	29 4397	14 53 29 44	143 7.8	9.9, 11.2	G5	AB	I 988 is 96° prec.	
			4 1.3	11.2, 12.2		BC		
1320	30 4381	22 33 30 3	116 1.6	10.4, 10.4	G0			
1321	33 4066	28 35 33 26	149 4.9	9.7, 13.0	G5			
1322	33 4068	28 53 33 36	128 0.8	8.6, 9.1	A3			
1323	39 7046	36 52 39 18	194 3.2	10.0, 11.0				

¹⁾ I 1289, — 33° 4010, a faint 4" pair is at 20°, 30" ±.

B.	C.P.D.	1900			θ	ρ	mag.	spec.	Remarks
		α	δ						
I324	33 0110	16 ^h 38 ^m 18 ^s	— 33° 37'	47° 0'6"		10.9, 11.2	A3	} in a cluster	
I325	39 7157	48 33	39 19	330 3.0		9.5, 13.5			
I326	39 7160	48 35	39 19	176 4.8		10.0, 12.8			
I327	40 7634	49 24	40 54	158 3.8		9.0, 12.5			
I328 ¹⁾	31 4520	49 54	31 20	247 0.4		10.0, 10.5			
I329	39 7221	54 23	39 42	273 3.3		9.7, 10.0	A0		
I330	31 4593	17 4 18	31 26	101 0.3		8.1, 9.6	A0		
I331	47 8144	8 52	47 28	42 1.1		9.6, 10.1	K0		
I332	31 4629	9 17	31 56	49 4.0		7.5, 11.5	B9		
I333	33 4332	11 10	33 59	74 0.3		8.8, 8.8	F8		
I334	33 4334	11 24	33 22	160 2.4		9.4, 13.0	F0		
I335	33 4362	15 24	33 19	13 3.2		9.2, 11.7	B9		
I336	31 4801	26 48	31 4	116 2.2		10.0, 10.8			
I337	52 10742	30 35	52 51	267 3.6		8.3, 10.8	A0		
I338	31 4839	30 43	31 21	278 4.5		9.2, 11.2			
I339	33 4540	35 33	33 24	104 1.7		10.3, 11.5			
I340	34 7119	42 4	34 55	207 0.8		9.1, 11.6	A2		
I341	34 7125	42 15	34 16	283 5.7		9.8, 12.0	F0	AB	
				354 1.8		12.0, 12.5		BC	
I342	33 4651	44 44	33 48	93 0.5		8.8, 9.8	A0		
I343	35 7355	45 14	35 3	168 3.4		8.9, 10.9	B9		
I344	31 5054	46 16	31 37	216 2.2		9.4, 12.6	B8		
I345	34 7248	46 19	34 56	16 0.3		9.6, 9.9			
I346	35 7425	47 29	35 52	178 0.5		8.7, 9.9	B9		
I347	52 10922	47 53	52 2	24 1.8		8.8, 11.3	G5		
I348	33 4723	50 57	33 51	1 0.8		9.5, 11.7	G5		
I349	31 5287	58 56	31 46	148 1.2		9.5, 11.5		AB	
				263 5.8		13.5		AC	
I350	30 5268	18 0 58	30 11	36 0.2		9.9, 10.2	A0		
I351	35 7755	2 41	35 45	284 0.4		9.4, 10.4		7756, 7.9 K2 is 2' north	
I352	35 7781	4 4	35 30	61 0.3		9.3, 9.5	G5		
I353 ²⁾	31 5421	7 7	32 0	148 0.1		7.3, 7.5	B8		
I354	36 8095	8 28	36 25	175 4.8		10.7, 11.0	A0		
I355	37 8010	9 12	37 5	129 0.2		9.0, 9.8	F8		
I356	36 8169	13 53	36 49	230 2.6		8.1, 12.5	Ma		
I357	39 8069	17 25	39 17	303 4.7		9.3, 13.0	G5		
I358	37 8102	17 55	37 49	300 1.2		10.4, 11.7	G5		
I359	30 5494	17 58	30 44	77 3.1		8.1, 14.5	A0	is not λ 352	
I360	37 8106	18 16	37 41	281 2.8		11.1, 11.6	G0	mag. from HD, too faint	
I361	52 11112	19 42	52 56	64 5.4		8.9, 13.2	F5		
I362	52 11115	20 11	52 33	51 0.3		8.4, 8.5	A2		
I363	34 7827	20 32	34 6	239 2.2		9.5, 12.5			
I364	34 7858	22 42	34 35	34 3.6		10.5, 11.8		7861, 8.6 B9 Sf in field	
I365	34 7860	22 45	34 19	246 4.0		9.5, 11.3	G0		
I366	31 5592	26 17	31 7	141 1.0		10.5, 10.6			
I367	30 5588	31 0	30 51	157 2.2		8.0, 12.3	K0		
I368	37 8242	31 15	37 53	149 4.9		9.3, 13.4	A2		
I369	46 9439	36 20	46 16	85 4.5		9.8, 12.0	F2		
I370	34 8037	36 55	34 1	133 0.7		8.4, 11.4	F8		
I371	31 5701	39 50	31 14	249 0.2		10.2, 10.3	A0		
I372	50 10840	41 42	50 49	126 2.7		10.2, 12.9	F8	AB	
				16 6.8		11.0		AC = δ 22	

¹⁾ at 40°5, 117°6 from 4518, 8.4 A3.

²⁾ "dull" first glance with 420 on perfect night, hardly notched 1680. Globular cluster N. G. C. 6569 is 8' north.

B.	C.P.D.	1900				θ	ρ	mag.	spec.	Remarks
		α	δ	α	δ					
1373	31 5735	18 ^h 43 ^m 25 ^s — 31° 27'		191° 4'	10.9 , 12.4	Go	mag. from HD, too faint			
1374	33 5405	53 6 33 15		72 0.4	9.2 , 9.5	A5				
1375	49 10837	56 48 49 13		289 2.1	10.0 , 13.0	Go				
1376	31 5842	57 27 31 46		8 1.1	10.5 , 11.6		5841, 9.0 A2 is 3' Sp.			
1377	32 5776	19 3 20 32 25		269 1.6	9.4 , 11.7	A5				
1378	31 5915	5 1 31 49		49 1.0	10.1 , 10.6	A2				
1379	49 10894	5 51 49 19		42 0.9	8.6 , 10.8	F8				
1380	32 5815	9 0 32 22		314 0.3	8.4 , 8.6	A2				
1381	43 8957	9 19 43 34		60 1.1	10.0 , 10.0	F5				
1382	50 11030	10 56 50 47		82 1.5	10.3 , 10.3	G5				
1383	41 9058	15 56 41 52		48 0.3	9.2 , 9.6	Go				
1384	52 11435	17 6 52 0		160 2.4	9.2 , 11.7	G5				
1385	41 9111	22 28 41 9		306 0.2	8.5 , 8.7	F5				
1386	51 11306	32 59 51 47		78 2.9	7.6 , 13.0	K2				
1387	52 11516	36 16 52 3		166 1.6	10.0 , 13.0					
1388	52 11771	20 41 17 52 22		328 5.2	10.3 , 10.8	F8				
1389	72 2571	47 31 72 40		26 3.3	9.3 , 11.8	Go				
1390	57 48 52 11		238 2.5	11.5 , 12.5		52°11817, 8.7 F5 is 3' north.			
1391	60 7480	21 22 42 60 8		235 1.2	10.4 , 11.8	Go				
1392	36 9415	25 42 36 1		70 0.4	8.7 , 9.0	F5				
1393	35 9087	28 38 35 35		61 1.8	10.0 , 10.2					
1394	35 9157	50 58 35 50		303 0.4	7.6 , 9.6	Ao				
1395	39 9072	58 44 39 7		244 0.6	10.9 , 11.3	Go	AB			
				86 12.6	10.3 , 13.5		AB, C			
1396	32 6467	22 8 53 32 42		214 1.8	10.8 , 11.1	G5				
1397	32 6468	9 15 32 40		290 0.4	9.1 , 9.6	F2				
1398	32 6481	13 36 32 12		152 4.0	8.9 , 13.5	Ko				
1399	31 6667	23 17 31 10		157 4.9	8.2 , 10.7	Ko				
1400	62 6388	58 18 62 51		125 0.3	11.0 , 11.0					
1401	51 11939	23 13 39 51 38		322 0.6	10.5 , 10.8	A3				
1402	64 4347	17 36 64 5		323 1.8	8.0 , 14.0	Ko				
1403	37 9350	21 25 37 22		185 1.3	9.6 , 10.8	F8				
1404	37 9358	24 50 36 56		5 0.4	10.1 , 11.1	F8				
1405	49 11844	56 46 49 9		237 4.8	10.5 , 12.5		11843, 9.4 Fo is 2' north prec.			