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COMMUNICATION FROM THE OBSERVATORY AT LEIDEN.

New Southern Double Stars, fourth list, by *W. H. van den Bos*.

In my first list (*B. A. N.* 107) the star B 207 at $10^{\text{h}}5^{\text{m}}$ should be deleted. It is Stone 21, Bu GC 5635, and had not been entered in INNES' Manuscript Catalogue. From my second list (*B. A. N.* 111) the stars B 416 and B 417 should be removed ($18^{\text{h}}54^{\text{m}}$). The

first of these had been found a year earlier by INNES (I 1390), but had been entered on a wrong page, so that I thought it to be new; the second star has received the designation Cor 230, as the components have been observed separately on the meridian at Cordoba.

B.	C. P. D.	α 1900	δ	θ	ρ	mag.	spec.	Remarks
635	46°10623	^h 0 ^m 7 ^s — 46° 20'		322° 1"		9.8, 12.3	G0	
636	62.19	11 4 62 21		105 2.4		9.8, 10.6	F8	
637	46.32	18 34 46 10		138 0.4		10.0, 10.8		
638	31.49	21 24 31 41		108 3.4		9.3, 12.3	F2	
639	32.51	24 57 32 50		331 2.8		7.8, 15.0	K0	
640	36.80	39 40 36 39		230 3.2		9.8, 12.3	G5	
641	31.83	43 18 31 27		245 3.5		8.9, 11.4	F8	
642	32.83	43 26 32 8		302 1.2		10.5, 12.5		
643	39.64	48 29 39 15		94 5.4		8.7, 13.0	A3	
644	46.88	48 43 46 3		256 0.2		8.5, 8.7	F0	
645	19.98	50 52 19 4		120 0.1		8.8, 9.1	K2	
646	54.208	52 26 53 58		86 3.8		10.0, 15	A3	
647	31.108	55 9 30 58		17 2.0		9.5, 11.5	G0	
648	46.99	55 41 46 17		24 0.5		10.0, 10.5		
649	31.120	58 57 30 56		244 0.6		8.8, 9.1	F5	
650	30.112	59 43 30 20		48 3.0		9.6, 13.1	F5	
651	54.265	^I 4 35 54 28		285 0.2		9.6, 10.1	G0	
652	46.144	17 52 46 45		204 3.4		8.8, 14	A2	
653	19.157	25 33 19 16		132 1.6		10.2, 12.7	G0	
654	46.163	28 17 46 39		206 1.9		10.0, 13.0	G5	
655	33.159	33 37 33 31		6 1.8		10.6, 10.8	F5	
656	63.130	42 54 63 18		245 1.6		9.7, 10.3	G0	
657	33.175	46 30 33 47		108 0.5		10.2, 10.7	F2	
658	63.137	52 28 63 34		346 1.6		8.8, 10.2	A2	
659	37.181	54 37 37 30		2 0.6		8.7, 12.2	F5	
660	38.168	55 25 38 26		45 1.0		9.7, 12.7	G0	
661	39.165	56 17 38 56		82 0.5		10.1, 11.1	G0	
662	33.211	59 55 33 38		165 1.1		11.3, 11.6	G5	
663	33.212	² 0 19 33 34		330 4.9		9.1, 12.1	G5	
664	54.417	2 3 54 36		318 0.2		9.8, 10.0	G5	
665	37.190	2 22 37 36		352 1.1		7.5, 12.0	K0	
665	54.439	13 39 54 17		193 0.8		8.4, 13	K5	
667	62.188	14 38 61 55		65 2.4		9.0, 13.5	G0	

may be $\lambda 9$ ($31^{\circ}85'$)

B.	C.P.D.	1900		θ	ρ	mag.	spec.	Remarks
		α	δ					
668	63°152	2 ^h 15 ^m 0 ^s - 63° 12'		{ 121° 1'9"		8.2, 12.2	F5	AB
				{ 206 12		8.2, 12.2		AC
669	37°234	20 32 37 36		31 1'2		10.0, 10.4		
670	54°448	20 34 54 5		246 2'8		9.0, 14.0	F5	
671	37°240	23 40 37 8		266 0'2		9.2, 9.8	F5	
672	20°276	24 4 20 15		310 1'9		8.1, 12.0	Fo	
673	37°250	28 58 37 38		222 0'6		9.6, 10.0	Fo	
674	39°208	29 35 39 37		42 0'4		9.9, 10.1	F5	
675	34°249 *)	30 17 34 34		19 0'5		9.6, 11.8	G5	
676	37°257	32 4 37 53		349 0'2		9.8, 10.3	Go	
677	37°260	32 32 37 45		249 1'1		10.3, 10.4	G5	
678	37°262 **)	33 33 37 24		130 5'3		8.7, 12.3	F8	
679	39°246	51 57 39 3		58 2'2		7.0, 13.0	Ko	
680	58°246	54 2 58 45		2 5'0		9.1, 12.1		
681	39°260	58 0 39 51		180 1'1		10.3, 11.4		
682	58°255	3 0 51 57 55		76 3		9.3, 12.5	Ko	
683	22°330	6 26 22 23		59 6'8		9.9, 12.8	Ko	
684	19°412	46 43 19 13		139 0'4		10.2, 10.4		BC A,BC = h 3599
685	22°448	59 20 21 59		337 1'3		9.6, 10.9		
686	19°469	4 7 42 19 42		147 1'7		8.7, 10.2		
687	19°497	14 19 19 38		318 0'4		9.7, 10.2		
688	62°357	26 37 62 44		125 10'3		5.8, 12	Ko	
689	22°602	38 48 22 30		273 0'4		8.8, 9.5	Go	
690	28°813	5 10 28 28 11		330 3'8		9.5, 13.8		
691	43°614	24 51 43 18		296 3'3		9.6, 12.6	Fo	
692	28°908	30 5 28 42		97 0'3		9.6, 10.0		
693	27°912	33 35 27 38		101 1'0		8.6, 12.6	F5	
694	43°677	44 19 43 11		251 3'2		9.2, 12.5	G5	
695	27°1013	51 29 27 57		212 1'4		9.8, 10.0	F5	
696	28°1126	6 3 7 28 10		157 3'3		9.5, 13.5		
697	27°1255	18 44 27 48		348 0'4		10.2, 10.4	F8	
698	28°1268	19 26 28 14		38 0'2		10.2, 10.7	Fo	
699	27°1331	27 20 27 2		306 2'3		9.5, 11.5		
700	28°1349	29 45 28 49		163 0'3		8.8, 9.3	F8	
701	28°1405	37 42 28 12		167 1'0		8.7, 9.7	G5	
702	27°1460	42 7 27 12		217 2'6		10.0, 10.1	B9	
703	26°1465	43 57 26 25		265 0'2		8.6, 9.1	B8	
704	26°1469	44 15 26 58		109 5'4		9.5, 13.0	A3	
705	27°1534	49 30 27 43		21 3'7		8.3, 13.8	Ko	
706	27°1545	50 34 27 26		66 0'4		8.9, 9.2	Ko	
707	26°1583	54 7 27 2		22 0'2		6.7, 7.3	B3	
708	26°1598	54 58 26 20		34 3'4		7.4, 11.4	B8	
709	27°1650	57 48 27 34		3 4'9		8.7, 12.1	Ko	
710	26°1815	7 5 6 26 45		201 1'4		9.8, 13.8		
711	26°1818	5 10 26 43		22 2'3		9.5, 12.5		
712	26°1819	5 13 26 55		288 1'0		9.6, 9.8		
713	27°1798	8 22 27 40		38 0'6		10.5, 10.7		
714	25°2144	11 50 25 35		63 1'7		9.6, 12.4		
715	27°1860	12 23 27 35		95 0'4		9.4, 10.9	B9	
716	26°1986	15 18 26 20		92 5'2		9.0, 12.8		
717	25°2197	15 30 25 18		36 2'2		9.5, 12.5		

*) Listed as Jsn 4 a year ago, but JOHNSON's description is quite different. In the same search Jsn 3 (34°226) was found single. Both JOHNSON's stars are probably misidentifications.

**) A closer companion suspected, 12^m 70° 1".

B.	C.P.D.	1900		θ	ρ	mag.	spec.	Remarks
		α	δ					
718	43°1364	7 ^h 17 ^m 2 ^s	-43° 18'	254°	0.5	8.8, 9.5	Ao	AB C,D,E = λ 78
719	25.2286	18 52	25 34	173	0.6	7.7, 9.2	Ma	
720	26.2083	20 15	26 19	66	5.1	9.5, 12.7		
721	25.2335	20 28	25 51	114	1.9	9.5, 9.9		
722	26.2085	20 30	27 1	96	3.4	9.6, 10.0	Ao	
723	27.2016	21 16	27 26	35	1.6	9.1, 11.6	B9	
724	26.2125	22 35	26 19	11	0.4	9.5, 9.9	A3	
725	26.2155	24 21	27 2	19	1.1	9.7, 13.2	Ao	
726	26.2170	25 12	26 26	221	1.1	9.3, 13.5	Ao	
727	26.2189	26 26	26 52	176	1.8	9.8, 11.1		
728	25.2565	31 58	25 14	224	0.3	9.7, 11.2	Ao	<i>m</i> Puppis; too close
729	25.2577	32 22	25 7	168	0.1	7.6, 7.6	B5	
730	27.2234	33 1	27 12	68	0.3	7.8, 7.8	B8	
731	25.2623	34 8	25 8	(44)	0.1	5.2, 5.6	B8	
732	26.2343	34 42	26 8	193	2.9	9.6, 10.4		
733	25.2635	34 58	25 55	237	1.5	10.9, 11.1	Go	
734	25.2641	35 10	25 56	12	0.5	9.5, 12.5		
735	25.2655	35 51	25 19	149	1.6	9.7, 11.7	B5	
736	26.2417	37 52	26 15	55	0.6	10.3, 10.3	Fo	
737	26.2457	39 27	26 56	80	0.2	8.6, 9.1	Ao	
738	25.2747	39 29	25 16	305	5.3	6.7, 14.0	A3	
739	25.2821	41 58	25 26	69	1.4	9.8, 11.3	B5	
740	25.2848	42 43	25 50	232	1.6	9.7, 12.2	Ao	
741	25.2851	42 56	25 15	208	0.3	11.3, 11.6	A3	
742	26.2574	43 25	26 25	210	5.7	9.5, 9.8		
743	26.2602	44 20	26 36	303	0.9	10.2, 10.9	Ao	
744	27.2446	44 44	27 10	204	4.6	9.1, 10.6	Ao	
745	25.2916	45 4	25 31	333	3.1	10.3, 12.5	F5	
746	25.2925	45 12	25 36	27	0.4	9.8, 10.9	B9	
747	27.2509	48 0	28 3	78	2.4	10.5, 10.5	F8	
748	25.3026	48 50	25 14	327	0.2	11.1, 11.3	Ao	HDmag. about 2 mag. too faint " " " I " " " " " " I " " " between Howe 22 and I 795
749	26.2751	50 17	26 59	9	4.2	8.1, 12.5	B8	
750	25.3103	52 2	25 52	204	4.8	11.4, 12.0	Ao	
751	25.3115	52 29	25 43	124	1.3	9.5, 12.5		
752	25.3235	58 8	25 47	337	5.5	7.9, 12.2	Ao	
753	24.3245	58 18	24 22	245	5.2	9.5, 13.0		
754	27.2792	8 0 59	27 48	278	5.0	10.8, 14.5	A3	
755	27.2852	2 36	27 33	283	4.4	10.5, 12.0	A3	
756	25.3352	4 56	25 56	176	4.4	8.1, 10.5	K2	
757	24.3377	5 0	24 51	145	4.6	9.6, 10.4		
758	26.3083	5 35	26 36	205	0.3	10.0, 10.4	F5 + A	
759	25.3396	7 16	25 45	105	2.3	9.7, 12.4	A2	
760	27.2956	8 46	27 24	279	1.4	10.0, 12.0		
761	27.2964	9 6	27 26	303	2.8	11.5, 13.5	A	
762	27.2987	10 36	27 11	245	4.2	10.7, 12.7	Ao	
763	27.3003	11 8	27 55	202	0.7	11.3, 11.9	F8	
764	26.3238	13 34	26 50	117	0.3	8.1, 10.3	F8	
765	25.3499	14 12	25 16	243	0.2	10.7, 11.1	A2	
766	26.3263	14 53	26 28	211	0.4	9.3, 11.3	F8	
767	25.3571	18 37	26 2	233	0.1	6.5, 6.8	Fo	
768	27.3202	22 53	27 58	117	3.2	9.6, 13.5	F8	
769	27.3319	32 17	27 47	183	2.6	9.4, 13.5	F8	
770	40.2936	48 49	41 0	282	1.7	9.6, 10.9		
771	49.2092	57 18	50 5	279	2.9	10.2, 11.7	G5	
772	19.4033	9 10 28	19 24	192	0.8	10.2, 10.4		

B.	C.P.D.	α 1900	δ	θ	ρ	mag.	spec.	Remarks
773	19°4071	9 ^h 14 ^m 33 ^s - 20° 1'		219° 0'6"		10.1, 11.1	F8	AB
				225 6.0		10.1, 10.4		AC
774	20°4405	15 13 20 39		130 2.0		9.6, 12.1		
775	20°4441	17 21 20 17		298 2.9		8.8, 12.3		
776	56°2251	27 3 57 4		243 1.5		8.0, 11.5		
777	20°4582	27 35 20 16		30 4.4		8.8, 13.5	F5	
778	19°4272	31 38 19 57		230 0.4		9.1, 11.6		
779	19°4293	34 17 19 49		2 3.1		10.0, 10.3		
780	57°2228	37 38 57 32		238 0.2		6.0, 6.3	A2	
781	19°4466	57 28 19 17		344 2.4		9.2, 9.7	F5	
782	42°4307	10 0 3 42 11		272 1.9		9.8, 9.9	K	
783	42°4316	0 38 42 35		188 4.0		9.7, 11.9	G5	
784	22°4622	4 28 23 4		193 0.6		8.0, 11.0	G5	
785	22°4651	9 51 22 45		297 1.5		9.3, 14.5		
786	37°4039	10 3 37 51		124 1.4		9.5, 10.3	G5	
787	38°3998	11 21 38 48		42 1.3		8.2, 11.7	F0	
788	19°4567	11 51 19 59		233 3.8		9.7, 11.0		
789	22°4666	12 29 22 26		319 0.6		9.8, 11.8		
790	57°3088	18 57 57 10		17 1.6		9.4, 9.9	B5	
791	37°4128	19 26 38 0		125 3.5		9.0, 14.0		
792	36°4369	25 17 36 23		300 3.4		10.0, 10.7		
793	22°4764	30 12 22 58		34 0.5		10.3, 10.3		
794	37°4370	40 7 37 37		182 0.2		8.3, 8.7	F8	