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COMMUNICATIONS FROM THE OBSERVATORY AT LEIDEN.

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

The following corrections to previous lists are all those found so far, mainly in the course of preparing the Southern Double Star Catalogue:

B. A. N. **107**, *first list.*

B 147, $7^h59^m54^s$, is identical with I 786; this was not noticed at the time, because INNES misidentified the star as *C. P. D.* — 24°3281 (noted as single in my search) and reversed the quadrant.

B 170, $8^h52^m3^s$, is identical with I 1128, which had not been entered in the manuscript catalogue.

B 180, $9^h22^m5^s$, has been named Cor 267; the two stars are given separately in the meridian catalogue Cor B, but not entered in the manuscript catalogue.

B 207, $10^h55^m15^s$, is identical with Stn 21, which had not been entered in the manuscript catalogue.

B 212, $11^h17^m8^s$, is identical with I 507.

B 260, $13^h54^m41^s$, is identical with *h* 4639, which had been entered at a wrong place in the manuscript catalogue.

B. A. N. **111**, *second list.*

B 416. $18^h54^m46^s$, is identical with I 1390, which had been entered by INNES on a wrong page of the manuscript catalogue.

B 417, $18^h54^m51^s$, has been named Cor 230; the two stars are given separately in the meridian catalogue Cor A.

B. A. N. **114**, *third list.*

B 212, $13^h16^m19^s$, has been entered by mistake; it is B 252, $13^h36^m19^s$, first list.

B. A. N. **126**, *fourth list.*

B 783, $10^h0^m38^s$, has been named Cp 102; the two stars are given separately in the Cape Zone Catalogue.

The catalogues Cor A, B, C and Cape Zone are being consulted now before publishing new double stars. As the Southern Double Star Catalogue will be completed in a few months, such errors will probably be reduced to a minimum in future.

B.	C.P.D.	1900 α	1900 δ	θ	ρ	mag.	spec.	Remarks
	°	h m s	° ′	°	″			
795	37·4596	11 5 22	−37 49	11	0.7	9·1 , 11·1	Ko	
796	37·4705	20 42	37 12	59	5·0	6·0 , 11·0	Ma	
797	60·3090	31 2	60 44	23	4·0	6·2 , 12·8	Aop	
798	60.3129	31 32	61 0	14	4·8	9·4 , 9·6		I 887 is 3′ south
799	62·2223	36 14	62 8	191	4·0	var , 13·8	G5	UZ Can, 8·7 to 9·5, $3\frac{1}{2}$ days
800	19·4948	43 34	19 38	32	1·1	9·4 , 12·6	G5	
801	38·4992	12 2 20	38 28	219	2·3	9·2 , 13·0	Go	
802	60·4128	27 32	60 24	180	0·4	8·6 , 9·4	B5	
803	65·1951	35 14	65 13	101	4·3	10·5 , 13·5		found in measuring I 907
804	59·4449	41 44	59 37	356	0·7	8·9 , 10·7	B9	
805	59·4566	48 1	59 48	264	4·3	7·9 , 13·2	B3	in χ Cru cluster
806	37·5510	13 4 4	37 48	66	1·3	9·7 , 12·9	F8	
807	59·4881	11 0	59 15	297	1.2	9·0 , 11·4	B9	
808	37·5552	12 24	37 57	356	0·2	9·6 , 9·8	F8	

B.	C.P.D.	1900 α	1900 δ	θ	ρ	mag.	spec.	Remarks
	°	h m s	° ′	°	″			
809	59·4930	13 16 3	−59 46	10	1·2	8·9 , 10·4	G5	
810	37·5571	16 20	37 42	96	3·7	9·3 , 13·2	K2	
811	36·6012	29 46	36 50	69	0·4	10·2 , 10·3	F8	
812	35·5857	31 19	36 0	187	1·5	9·3 , 9·4	G5	
813	37·5773	37 24	37 37	198	2·4	8·2 , 14·2	Ko	
814	59·5405	14 0 18	59 53	284	1·3	9·9 , 10·4	Ao	AB
				276	15·4	9·9 , 10·5	Ao	AC
815	30·3789	1 49	30 31	184	1·7	10·7 , 12·1	Ko	
816	36·6311	3 31	36 17	115	1·6	9·7 , 12·7	G	
817	59·5444	4 25	59 11	98	2·3	9·1 , 12·6	Ao	
818	30·3812	10 14	30 49	202	0·3	10·1 , 10·6	A2	
819	36·6407	17 36	36 58	286	0·3	9·0 , 10·0	Go	
820	35·6239	20 26	36 3	29	1·7	9·3 , 11·8	F8	
821	35·6267	25 0	35 31	80	1·9	10·0 , 11·0	Go	
822	30·3876	32 12	30 17	49	0·2	10·6 , 10·6	Go	
823	64·2987	35 31	64 37	263	1·1	8·5 , 10·3	F8	
824	30·3895	40 12	30 33	138	3·0	8·3 , 14·0	F5	
825	30·3902	42 21	30 59	106	1·2	9·2 , 10·1	F2	
826	37·6320	52 42	38 5	1	0·7	8·9 , 13·1	Go	
827	64·3072	53 44	64 22	335	1·7	9·0 , 12·0	B9	
828	37·6368	57 27	37 56	302	0·3	8·8 , 9·1	F2	
829	64·3090	57 34	65 0	257	0·8	9·1 , 9·3	F5	
830	37·6369	57 35	37 52	257	4·4	9·0 , 14·0	Ko	
831	64·3100	59 59	64 15	108	2·6	8·8 , 11·0	A2	also a 13·8, 80°, 8″
832	64·3107	15 2 26	64 15	79	4.8	9·4 , 11·4	Ko	
833	37·6413	5 45	37 54	338	0·2	9·4 , 10·0	G5	
834	37·6415	5 57	37 8	57	1·2	10·1 , 10·7	F8	
835	64·3125	6 4	64 57	127	5·1	9·4 , 11·6	Ao	
836	37·6472	16 3	37 52	212	1·4	8·9 , 12·4	F8	
837	64·3174	17 18	65 0	84	0·3	9·5 , 9·7	A	the companion of *h* 4761
838	37·6483	18 30	37 9	257	0·9	8·7 , 13·8	Fo	
839	64·3219	28 25	64 13	133	0·2	8·6 , 9·1	Ao	I 241 is 80″ N
840	64·3221	28 40	64 51	62	4·4	8·6 , 12·1	F2	
841	47·7243	29 24	47 56	196	0·6	10·8 , 11·0	A2	
842	63·3636	31 42	63 31	261	0·6	7·7 , 8·7	Ao	
843	47·7276	32 12	47 31	73	0·7	10·1 , 11·8	G5	
844	35·6591	32 46	35 41	342	1·5	9·0 , 12·0	G5	
845	63·3672	37 54	64 4	354	0·8	9·9 , 10·9		
846	37·6567	38 54	37 19	158	0·5	8·7 , 9·2	Fo	
847	34·6395	40 21	34 22	36	0·1	6·2 , 6·5	B8	
848	64·3281	42 54	64 37	250	3·8	8·5 , 12·0	K5	
849	37·6585	45 16	37 49	113	0·4	9·3 , 11·5	Go	AB AB, C = *h* 4812
850	37·6593	47 1	37 42	128	1·2	9·6 , 9·7	F2	
851	37·6595	47 58	38 0	192	1·0	10·3 , 13·5	F5	
852	37·6596	48 21	37 13	86	1·0	8·1 , 12·1	Go	
853	63·3739	48 27	63 56	29	1·4	9·8 , 11·5		
854	64·3320	49 47	64 45	284	9·7	5·9 , 12·5	B8	
855	25·5699	50 58	25 24	235	1·0	9·8 , 11·8		found in measuring B 299
856	63·3762	51 38	63 8	311	3·4	9·8 , 13·3		
857	63·3766	52 13	63 22	222	5·2	9·6 , 11·8		
858	71·1950	53 42	71 37	31	3·2	8·6 , 11·8	Ko	found in measuring I 334
859	63·3778	54 26	63 5	66	5·7	7·9 , 13·2	F8	
860	37·6636	59 31	37 46	296	0·7	8·3 , 10·5	F5	
861	37·6641	16 1 11	37 28	330	1·1	8·9 , 11·7	B8	
862	64·3402	2 32	64 17	299	1·4	9·5 , 10·0	Go	

B.	C.P.D.	1900 α	1900 δ	θ	ρ	mag.	spec.	Remarks
	° ′	h m s	° ′	°	″			
863	63·3833	16 2 43	−63 47	354	5·4	9·3 , 13·2	A2	
864	22·6130	2 44	23 4	279	1·9	10·4 , 14·2	Go	
865	36·6955	4 58	36 7	113	0·6	9·1 , 11·4		
866	35·6679	5 21	35 21	184	0·7	8·4 , 10·4	F5	
867	47·7613	13 18	47 29	120	3·2	9·9 , 11·9	Ko	
868	37·6663	17 52	37 20	167	0·1	6·0 , 6·2	B8	
869	47·7672	18 34	47 25	46	2·2	10·2 , 10·7		
870	34·6510	19 40	34 43	132	3·0	8·9 , 14·2	Ko	
871	35·6715	20 4	35 25	248	0·3	10·5 , 10·5	Ao	
872	37·6670	20 46	37 15	131	0·5	9·3 , 9·3	G5	
873	47·7732	22 39	47 19	87	1·9	10·4 , 13·1	B8	
874	47·7733	22 50	47 52	123	4·0	9·7 , 11·7		
875	34·6567	29 58	34 36	307	1·0	10·0 , 10·1		
876	37·6713	33 40	37 26	78	4·0	8·2 , 11·4	Ao	
877	35·6774	39 2	35 40	44	1·3	10·2 , 11·6		
878	37·6763	45 21	37 50	204	2·2	9·5 , 13·5	F2	
879	37·6777	46 55	37 21	18	1·5	9·5 , 13·0	G5	
880	36·7073	48 5	36 6	180	1·6	10·0 , 11·1		
881	35·6800	48 29	35 40	265	0·2	9·9 , 10·1	A2	
882	35·6805	49 18	35 46	279	0·4	9·8 , 10·6	Ao	
883	37·6810	51 1	37 45	302	2·2	9·9 , 10·9		
884	45·8236	52 0	45 13	166	3·5	10·1 , 11·8	Ao	
885	37·6820	52 6	37 28	173	0·2	6·9 , 7·1	A3	
886	35·6824	53 58	35 36	5	5·6	8·8 , 12·5	B8	
887	35·6825	53 58	35 58	82	0·5	9·1 , 10·4	F8	
888	37·6881	57 18	37 59	320	0·4	9·3 , 10·7		
889	36·7121	57 42	36 22	241	0·4	9·7 , 9·9		
890	37·6897	57 49	37 52	355	5·5	9·5 , 10·3		
891	37·6911	58 0	37 57	243	5·4	8·8 , 13·5		AB
				82	6·7	8·8 , 13·6		AC
892	37·6912	58 0	37 49	330	0·3	9·0 , 9·2		
893	45·8311	59 14	46 1	182	0·2	10·7 , 10·7	B8	
894	35·6849	59 49	35 19	356	2·8	6·3 , 12·8	B3	
895	35·6856	17 0 8	35 45	300	0·7	9·3 , 11·2	B8	AB AB,C = Hwe 85
896	37·6976	2 20	37 45	88	4·6	10·2 , 13·2		
897	33·4221	3 52	33 43	303	0·3	10·3 , 10·5	Ao	
898	33·4237	5 26	33 29	112	0·3	10·1 , 10·3	B8	
899	37·7020	6 1	37 20	150	1·8	9·5 , 9·5	Ao	
900	45·8378	6 12	45 20	289	0·4	9·3 , 11.1	B2	
901	36·7201	6 24	36 44	297	2·8	10·7 , 12·1	Ao	
902	37·7037	7 8	37 41	69	1·7	10·0 , 10·4	A2	
903	33·4270	7 40	33 9	36	2·9	9·7 , 12·7	Ao	
904	33·4295	9 15	33 56	294	2·4	10·1 , 12·3	B8	
905	33·4311	10 5	33 40	299	3·3	10·0 , 11·9		
906	36·7236	14 14	36 56	330	0·4	10·0 , 10·4	G5	
907	35·6942	14 14	35 29	254	3·5	10·0 , 10·1		
908	37·7121	15 51	37 42	114	2·7	6·3 , 12·2	G + B8p	also a 13·5, 208°, 12″
909	37·7124	15 58	37 34	73	3·0	8·7 , 12·2	K2	
910	35·6960	17 53	35 56	332	0·3	10·7 , 10·9	Fo	
911	33·4411	22 5	33 30	154	1·0	8·6 , 11·6	B8	
912	37·7240	24 0	37 21	259	0·2	7·3 , 7·8	Ao	
913	37·7264	26 50	37 56	54	0·8	9·8 , 13·3		
914	33·4468	29 35	33 26	356	4·8	8·5 , 13·0		primary very red
915	37·7319	30 41	37 43	120	0·2	8·7 , 8·8	Fo	AB AB,C = Cor 216
916	34·7014	37 44	34 34	209	4·6	8·7 , 13·3	B5	