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MISCELLANEOUS OBSERVATIONS OF SOME NEW MINOR PLANETS

BY G. PELS

In course of time Dr W. STROBEL of Heidelberg and Dr J. M. TORROJA of Madrid asked for accurate positions of new minor planets, discovered by Dr H. VAN GENT on plates taken in Johannesburg.

The approximate positions have been given in

B.A.N. 8, 201 (No 304), 1937 and in *B.A.N.* 10, pp. 436 and 437 (No 398), 1948.

Table 1 contains the positions, Table 2 the reference stars with the dependences.

TABLE I

Plate number	Date	α_{1950}	$\rho_a^s \cdot \Delta$	δ_{1950}	$\rho_\delta'' \cdot \Delta$	dependences	
	(1930 OG)						
	1930	h m s	s	° ' "	"		
6754	July 22.92499	20 18 37.93	-.032	- 15 57 11.0	-1.53	1	
6755	22.94669	20 18 36.71	+.043	- 15 57 12.2	-1.54	1	
6775	29.90170	20 11 40.16	-.030	- 16 4 47.1	-1.51	2	
6776	29.92387	20 11 38.83	+.046	- 16 4 49.1	-1.52	2	
6793	Aug. 17.83558	19 55 46.92	-.041	- 16 28 52.9	-1.46	3	
6794	17.85844	19 55 45.99	+.038	- 16 28 54.3	-1.46	3	
	(1930 OH)						
	1930						
6754	July 22.92499	20 26 59.80	-.051	- 8 37 25.3	-2.62	4	
6755	22.94669	20 26 58.84	+.022	- 8 37 26.0	-2.62	4	
6775	29.90170	20 21 16.66	-.052	- 8 41 3.8	-2.62	5	
6776	29.92387	20 21 15.56	+.023	- 8 41 4.5	-2.61	5	
6793	Aug. 17.83558	20 7 19.37	-.067	- 9 6 53.0	-2.56	6	
6794	17.85844	20 7 18.40	+.010	- 9 6 52.3	-2.55	6	
	(1930 OK)						
	1930						
6754	July 22.92499	20 38 43.72	-.079	- 11 5 21.0	-2.28	7	
6755	22.94669	20 38 42.51	-.005	- 11 5 21.1	-2.26	7	
6775	29.90170	20 32 38.55	-.079	- 11 13 46.6	-2.25	8	
6776	29.92387	20 32 37.20	-.004	- 11 13 48.4	-2.24	8	
6793	Aug. 17.83558	20 17 22.92	-.091	- 12 1 41.8	-2.14	9	
6794	17.85844	20 17 21.96	-.014	- 12 1 44.3	-2.12	9	
	(1930 OL)						
	1930						
6754	July 22.92499	20 40 23.55	-.084	- 15 41 27.2	-1.59	10	
6755	22.94669	20 40 22.39	-.009	- 15 41 37.6	-1.57	10	
6775	29.90170	20 34 38.63	-.085	- 16 21 35.9	-1.49	11	
6776	29.92387	20 34 37.33	-.009	- 16 21 43.6	-1.47	11	
6793	Aug. 17.83558	20 19 54.08	-.100	- 18 10 56.7	-1.21	12	
6794	17.85844	20 19 53.21	-.020	- 18 11 6.3	-1.19	12	
	(1930 RB)						
	1930						
6915	Sep. 19.90963	23 22 16.38	+.031	- 13 8 1.8	-1.95	13	
6916	19.93145	23 22 15.18	+.105	- 13 8 11.0	-1.98	13	
6967	26.86179	23 17 8.41	-.055	- 13 41 37.1	-1.87	14	
6968	26.88361	23 17 7.36	+.020	- 13 41 43.1	-1.86	14	faint
6973	28.95607	23 15 46.44	+.276	- 13 49 5.3	-2.11	15	
6974	28.97789	23 15 45.59	+.337	- 13 49 10.7	-2.26	15	
6987	Oct. 12.78833	23 9 51.47	-.138	- 14 5 59.0	-1.87	16	
6988	12.81015	23 9 51.01	-.065	- 14 5 59.6	-1.82	16	
6999	14.78668	23 9 29.83	-.125	- 14 3 53.0	-1.86	17	
7000	14.85074	23 9 29.06	+.093	- 14 3 46.5	-1.84	17	

TABLE I (continued)

Plate number	Date	α_{1950}	$\mu_{\alpha}^s \Delta$	δ_{1950}	$\mu_{\delta}^s \Delta$	dependences
	(1930 SB ₁)					
	1930	h m s	s	° ' "	"	
6973	Sep. 28.95607	23 0 46.51	+ .307	- 14 31 51.3	-2.10	18
6974	28.97789	23 0 45.40	+ .366	- 14 31 54.1	-2.27	18
6987	Oct. 12.78833	22 54 32.62	- .103	- 15 0 10.4	-1.70	19
6988	12.81015	22 54 32.16	- .029	- 15 0 9.0	-1.67	19
6999	14.78668	22 54 4.51	- .089	- 15 0 34.0	-1.69	19
7000	14.85074	22 54 3.40	+ .130	- 15 0 33.3	-1.72	19
	(1930 SO)					
	1930					
6915	Sep. 19.90963	23 17 46.61	+ .042	- 14 31 34.5	-1.74	20
6916	19.93145	23 17 45.50	+ .116	- 14 31 46.1	-1.78	20
6967	26.86179	23 12 49.69	- .045	- 15 16 41.0	-1.63	21
6968	26.88361	23 12 48.76	+ .030	- 15 16 45.7	-1.63	21
6973	28.95607	23 11 29.01	+ .287	- 15 27 47.4	-1.91	22
6974	28.97789	23 11 28.10	+ .348	- 15 27 52.9	-2.08	22
6987	Oct. 12.78833	23 5 20.14	- .129	- 16 8 26.2	-1.56	23
6988	12.81015	23 5 19.63	- .055	- 16 8 25.7	-1.51	23
6999	14.78668	23 4 54.17	- .115	- 16 9 33.9	-1.55	23
7000	14.85074	23 4 53.20	+ .105	- 16 9 34.0	-1.53	23
	(1930 SP)					
	1930					
6915	Sep. 19.90963	23 19 47.70	+ .037	- 13 58 37.9	-1.82	24
6916	19.93145	23 19 46.42	+ .111	- 13 58 38.6	-1.86	24
6967	26.86179	23 14 9.35	- .048	- 13 53 22.9	-1.84	25
6968	26.88361	23 14 8.02	+ .027	- 13 53 22.4	-1.84	25
6973	28.95607	23 12 40.33	+ .282	- 13 49 22.4	-1.12	26
6974	28.97789	23 12 39.39	+ .343	- 13 49 20.8	-1.27	26
6987	Oct. 12.78833	23 6 26.24	- .130	- 12 55 48.8	-2.03	27
6988	12.81015	23 6 26.10	- .056	- 12 55 44.2	-1.99	27
6999	14.78668	23 6 5.37	- .116	- 12 44 36.9	-2.05	28
7000	14.85074	23 6 4.60	+ .100	- 12 44 12.0	-2.04	28
	(1930 SX)					
	1930					
6889	Sep. 16.87662	22 54 26.85	- .044	- 13 39 19.0	-1.86	29
6890	16.89843	22 54 25.79	+ .031	- 13 39 28.4	-1.87	29
6943	22.91840	22 50 34.32	+ .162	- 14 24 58.1	-1.85	30
6944	22.94091	22 50 33.33	+ .234	- 14 25 8.3	-1.95	30
6973	28.95607	22 47 27.16	+ .333	- 15 1 20.1	-2.09	31
6974	28.97789	22 47 26.38	+ .390	- 15 1 27.3	-2.28	31
	(1930 SY)					
	1930					
6889	Sep. 16.87662	23 1 33.18	- .061	- 15 57 50.4	-1.53	32
6890	16.89843	23 1 31.73	+ .014	- 15 57 57.9	-1.53	32
6943	22.91840	22 56 23.67	+ .150	- 16 16 23.3	-1.56	33
6944	22.94091	22 56 22.57	+ .223	- 16 16 28.6	-1.67	33
6973	28.95607	22 52 5.39	+ .327	- 16 25 33.8	-1.89	34
6974	28.97789	22 52 4.39	+ .384	- 16 25 34.3	-2.09	34
6999	Oct. 14.78668	22 46 0.76	- .071	- 16 6 47.6	-1.51	35
7000	14.85074	22 46 0.08	+ .149	- 16 6 34.6	-1.58	35
	(1930 SZ)					
	1930					
6901	Sep. 17.90366	0 5 7.72	- .107	- 9 54 8.6	-2.43	36
6902	17.93483	0 5 6.09	- .003	- 9 54 19.2	-2.43	36
6929	21.89724	0 1 46.44	- .085	- 10 13 30.3	-2.40	37
6930	21.91888	0 1 45.16	- .012	- 10 13 38.0	-2.38	37
6975	29.00108	23 55 49.71	+ .321	- 10 39 58.4	-2.61	38
6976	29.02532	23 55 48.59	+ .383	- 10 40 2.1	-2.76	38

TABLE I (continued)

Plate number	Date	α_{1950}	$\mu\alpha^s \cdot \Delta$	δ_{1950}	$\mu\delta^s \cdot \Delta$	dependences
	(1943 OE)					
	1943	h m s	s	° ' "	"	
17785	July 26.86599	20 57 32.01	-.283	- 17 37 33.3	-1.62	39
17786	26.88780	20 57 30.91	-.215	- 17 37 32.4	-1.47	39
17799	Aug. 7.84604	20 46 48.66	-.220	- 17 37 22.1	-1.48	40
17800	7.86750	20 46 47.47	-.150	- 17 37 23.9	-1.37	40
17811	24.85606	20 32 59.86	+.003	- 17 30 28.8	-1.30	41
17812	24.87753	20 32 58.83	+.078	- 17 30 26.4	-1.32	41
17851	Sep. 5.80529	20 26 19.39	-.043	- 17 17 39.9	-1.34	42
17852	5.82676	20 26 18.92	+.031	- 17 17 37.7	-1.34	42

TABLE 2

	BD	α_{1950}	δ_{1950}	dependences		BD	α_{1950}	δ_{1950}	dependences
		h m s	° ' "				h m s	° ' "	
1	-16 5557	20 15 35.035	-16 13 51.02	.194041 .196825	13	-13 6395	23 19 55.407	-13 4 12.80	.362374 .369691
	-16 5565	20 17 22.957	-15 45 24.33	.273093 .275401		-13 6402	23 22 49.305	-12 47 55.99	.084087 .075433
	-16 5587	20 20 22.909	-15 57 6.12	.532866 .527774		-13 6404	23 23 43.611	-13 13 32.49	.553539 .554876
2	-15 5584	20 10 34.808	-15 34 42.71	.073443 .076497	14	-14 6440	23 15 16.722	-13 30 2.93	.259629 .262728
	-16 5535	20 11 23.006	-16 9 48.92	.660733 .672858		-14 6447	23 16 19.088	-14 8 17.07	.270634 .273678
	-16 5543	20 12 40.861	-16 0 34.87	.265824 .250644		-14 6453	23 18 38.497	-13 32 36.78	.469736 .463595
3	-16 5457	19 53 31.521	-16 30 20.31	.272775 .278217	15	-14 6438	23 14 52.049	-13 54 53.60	.403586 .412876
	-16 5470	19 55 29.037	-16 19 1.39	.437482 .433717		-14 6447	23 16 19.088	-14 8 17.07	.300343 .295639
	-16 5481	19 58 21.552	-16 42 18.58	.289743 .288066		-13 6382	23 16 27.381	-13 21 41.29	.296071 .291485
4	- 9 5477	20 26 9.030	- 8 46 37.75	.425050 .428210	16	-14 6412	23 6 24.503	-13 59 14.71	.134566 .135840
	- 8 5372	20 26 35.590	- 8 27 8.83	.363419 .365517		-14 6419	23 9 4.223	-14 16 47.51	.497084 .497194
	- 8 5384	20 29 23.391	- 8 36 31.32	.211531 .206273		-14 6428	23 12 10.705	-13 53 46.53	.368350 .366966
5	- 9 5445	20 19 52.610	- 8 59 10.52	.296316 .308190	17	-14 6417	23 8 32.475	-14 9 52.20	.342001 .362543
	- 9 5455	20 21 41.628	- 8 43 4.29	.407184 .387506		-14 6419	23 9 4.223	-14 14 47.51	.371256 .351639
	- 8 5349	20 22 6.227	- 8 20 11.01	.296501 .304305		-14 6424	23 11 11.138	-13 39 59.44	.286744 .285818
6	- 9 5363	20 5 7.912	- 9 8 58.21	.077294 .084675	18	-15 6332	23 0 5.979	-14 31 20.91	.571544 .584181
	- 9 5373	20 6 54.841	- 9 18 27.24	.298527 .294523		-14 6398	23 1 16.775	-14 15 46.78	.229348 .220872
	- 9 5377	20 7 47.358	- 9 1 5.00	.624180 .620803		-15 6339	23 2 8.088	-14 51 47.84	.199109 .194947
7	-11 5378	20 34 32.803	-11 14 45.60	.268083 .271998	19	-15 6303	22 53 22.054	-14 55 50.44	.116956 .122592
	-11 5401	20 39 56.702	-11 8 58.73	.348046 .342630		-15 6306	22 54 36.349	-15 5 7.42	.708513 .704169
	-11 5402	20 40 32.642	-10 55 22.71	.383872 .385372		-15 6308	22 55 4.726	-14 42 58.50	.174532 .173238
8	-10 5431	20 31 11.634	-10 17 40.01	.133211 .134217					.437075 .450152
	-11 5365	20 31 46.294	-11 27 20.80	.525138 .532025					.540261 .532116
	-11 5378	20 34 32.803	-11 14 45.60	.341651 .333758					.022664 .017733
9	-12 5686	20 16 9.139	-12 10 42.18	.429026 .434825	20	-15 6394	23 16 32.547	-14 31 21.93	.252416 .256896
	-12 5696	20 17 45.433	-11 46 53.66	.274356 .274858		-15 6400	23 17 42.496	-14 40 10.12	.454261 .460498
	-12 5702	20 18 48.707	-12 2 19.85	.296617 .290316		-14 6456	23 18 56.658	-14 18 23.74	.293322 .282606
10	-15 5756	20 38 20.256	-15 19 40.63	.209509 .218002	21	-15 6374	23 12 5.244	-14 43 7.04	.181881 .180495
	-15 5767	20 40 46.320	-15 22 5.32	.260175 .246516		-15 6376	23 12 22.661	-15 24 56.13	.665900 .672000
	-16 5681	20 41 1.184	-15 59 32.58	.530316 .535482		-15 6391	23 15 41.125	-15 20 36.96	.152220 .147406
11	-16 5632	20 30 15.771	-16 11 49.38	.471214 .475547	22	-15 6365	23 8 37.309	-15 27 20.56	.275790 .281150
	-15 5734	20 35 7.300	-15 40 3.30	.164762 .168841		-15 6376	23 12 22.661	-15 24 56.13	.638218 .629788
	-16 5663	20 37 44.121	-16 18 13.39	.693548 .693294		-16 6250	23 14 1.659	-15 50 5.59	.085992 .089062
12	-18 5651	20 18 1.435	-18 18 52.62	.594896 .598878	23	-15 6346	23 4 0.496	-15 8 6.61	.336308 .337030
	-17 5961	20 21 2.782	-17 26 18.14	.335225 .336449		-17 6670	23 4 3.182	-16 54 37.77	.279596 .281396
	-18 5671	20 21 55.520	-17 44 18.57	.740328 .737570		-16 6224	23 7 26.220	-16 27 34.43	.384096 .381574

TABLE 2 (continued)

	BD	α_{1950}	δ_{1950}	dependences		BD	α_{1950}	δ_{1950}	dependences
				.358145 .359356	33	-16° 61'84"	22 55 31.737	-16° 10' 24.31"	.424567 .431985
				.385583 .389156		-16 6188	22 56 57.209	-16 22 37.14	.551625 .548257
				.256272 .251488		-16 6193	22 58 53.113	-15 38 29.18	.023809 .019757
		h m s	° ' "						
24	-14 6455	23 18 49.949	-13 55 56.10	.283643 .298761	34	-17 6617	22 50 59.159	-16 30 25.85	.444599 .450467
	-14 6460	23 20 1.147	-14 9 52.99	.412923 .407040		-16 6171	22 51 14.484	-16 7 5.27	.234605 .233795
	-14 6461	23 20 23.384	-13 45 49.99	.303434 .294200		-17 6625	22 54 14.499	-16 32 16.11	.320796 .315738
25	-14 6429	23 12 43.620	-14 17 17.36	.180346 .186646	35	-17 6593	22 45 19.777	-16 49 1.33	.170896 .165823
	-13 6372	23 13 15.367	-13 27 23.69	.202123 .207516		-16 6155	22 45 26.547	-15 59 55.95	.269412 .285782
	-14 6438	23 14 52.049	-13 54 53.59	.617531 .605838		-16 6158	22 46 29.691	-15 57 11.93	.559692 .548395
26	-14 6428	23 12 10.705	-13 53 46.53	.440183 .460230	36	-10 6229	0 3 2.395	-9 42 18.19	.407821 .417017
	-14 6429	23 12 43.620	-14 17 17.36	.207708 .196587		-9 5	0 5 44.239	-9 6 6.58	.185877 .178595
	-13 6372	23 13 15.367	-13 27 23.69	.352110 .343184		-10 9	0 6 57.072	-10 27 56.88	.406303 .404388
27	-13 6344	23 4 21.687	-12 59 55.85	.323246 .323786	37	-10 6212	23 58 58.827	-9 42 30.31	.192438 .196950
	-12 6435	23 7 8.091	-12 21 30.27	.377841 .378637		-11 6194	0 1 56.573	-10 47 15.27	.410056 .413382
	-14 6415	23 7 48.092	-13 34 51.93	.298913 .297578		-10 6227	0 2 57.212	-9 53 39.74	.397506 .389668
28	-13 6339	23 3 48.609	-12 45 22.39	.266220 .271629	38	-10 6204	23 54 13.467	-10 18 20.66	.476854 .480494
	-13 6351	23 6 49.756	-12 53 23.39	.525015 .507926		-12 6592	23 55 42.459	-11 44 9.43	.133016 .135660
	-12 6435	23 7 8.091	-12 21 30.27	.208764 .220446		-11 6175	23 57 50.014	-10 44 28.60	.390130 .383846
29	-14 6368	22 53 16.707	-14 1 5.85	.432632 .436306	39	-18 5821	20 56 49.694	-17 39 42.96	.156341 .173898
	-13 6306	22 54 18.948	-13 24 8.87	.348590 .350140		-17 6144	20 57 10.821	-17 29 3.43	.374725 .370981
	-13 6318	22 56 57.797	-13 20 21.43	.218778 .213554		-18 5831	20 58 3.062	-17 43 37.20	.468934 .455119
30	-14 6359	22 49 1.878	-14 7 34.59	.209690 .208234	40	-17 6083	20 44 18.018	-17 24 18.11	.348295 .353492
	-15 6286	22 49 26.514	-14 41 52.75	.372041 .379366		-17 6104	20 48 7.968	-17 28 43.53	.291545 .284493
	-14 6366	22 52 20.900	-14 18 35.78	.418269 .412401		-18 5792	20 48 10.501	-17 56 53.62	.360160 .362015
31	-15 6274	22 44 52.843	-15 23 48.08	.269590 .273304	41	-17 6021	20 31 44.661	-17 5 14.48	.178081 .185479
	-14 6355	22 47 45.183	-14 19 27.14	.374537 .372552		-18 5716	20 32 42.385	-17 54 6.50	.473000 .473122
	-15 6285	22 49 5.028	-15 28 19.64	.355873 .354145		-17 6034	20 34 1.838	-17 11 18.51	.348920 .341400
32	-16 6188	22 56 57.209	-16 22 37.14	.085180 .089960	42	-17 5982	20 24 34.950	-17 13 59.00	.322535 .325824
	-15 6335	23 0 24.249	-15 23 14.25	.102509 .102085		-17 5994	20 26 44.434	-17 34 22.36	.222820 .220920
	-16 6204	23 2 10.795	-15 59 35.31	.812311 .807954		-17 5999	20 27 21.222	-17 12 3.44	.454645 .453256

ERRATA IN B. A. N. No 398

In *B.A.N.* No 398, p. 436, last line:

time should be July 26.888

 $\delta - 17^{\circ}38'$

on p. 437 read for 1948 OE, 1943 OE.