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## Approximate positions of 68 known and 10 new minor planets on Johannesburg plates taken in 1940

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TABLE 2 (continued).

B.D.	$\alpha$ 1950°	$\delta$ 1950°	dependences	B.D.	$\alpha$ 1950°	$\delta$ 1950°	dependences		
73	+ 15°1783	8 10 10'11	14 44 55'9	3460 3446	84	+ 9°2977	14 56 30'71	9 13 14'3	3749 3750
	+ 14°1866	8 14 8'28	14 5 19'1	3324 3330		+ 9°2985	14 58 20'34	8 46 58'6	3117 3112
	+ 15°1794	8 14 46'54	15 28 6'0	3216 3225		+ 9°2990	14 59 36'26	9 23 1'7	3134 3137
74	- 16°3874	14 25 58'06	17 21 26'2	2282 2289	85	+ 10°2768	14 55 55'03	10 13 50'7	3760 3762
	- 16°3884	14 28 28'80	16 42 21'8	5484 5487		+ 9°2984	14 58 10'35	9 14 8'5	2532 2528
	- 17°4110	14 29 33'12	17 39 40'2	2234 2224		+ 10°2780	15 0 29'05	9 41 57'4	3709 3710
75	- 16°3872	14 25 26'80	17 4 6'7	2219 2199	86	+ 12°2753	14 48 39'11	12 22 9'9	4175 4180
	- 16°3873	14 25 56'07	16 44 28'0	5146 5182		+ 11°2736	14 50 25'20	11 27 18'9	2310 2308
	- 16°3882	14 28 8'42	16 35 21'0	2635 2619		+ 13°2866	14 53 5'43	12 38 1'6	3515 3513
76	- 14°3910	14 13 6'18	14 52 38'6	5001 5015	87	+ 13°2837	14 43 13'09	12 41 35'6	3879 3899 3957 3973
	- 14°3918	14 15 22'42	14 40 51'1	1963 1959		+ 14°2786	14 44 58'11	13 51 46'7	2647 2647 2646 2646
	- 15°3846	14 16 22'99	15 31 3'3	3036 3026		+ 12°2739	14 44 25'42	12 34 59'7	3475 3454 3397 3382
77	- 11°3626	13 52 30'76	12 12 14'7	2821 2834	88	+ 13°2784	14 19 8'20	12 59 36'7	3406 3410
	- 11°3641	13 55 37'45	12 22 53'1	4866 4848		Lpz I 5100	14 20 53'27	11 53 1'6	1894 1897
	- 11°3646	13 56 54'94	11 48 0'4	2313 2318		+ 13°2794	14 22 21'93	12 46 35'9	4700 4693
78	- 8°3618	13 39 17'95	9 25 9'4	4843 4873	89	+ 10°2649	14 10 25'58	10 4 55'4	3016 3022
	- 9°3750	13 39 57'44	10 10 0'2	2495 2486		+ 11°2651	14 10 35'61	10 52 31'0	3670 3667
	- 8°3621	13 40 20'66	9 21 52'9	2663 2641		+ 11°2660	14 14 52'30	10 48 53'9	3313 3311
79	+ 3°353	2 30 43'39	4 12 25'7	4450 4427	90	+ 10°2639	14 7 51'82	9 40 31'6	1404 1407 1417 1419
	+ 3°359	2 32 32'36	3 54 33'8	1497 1451		+ 10°2649	14 10 25'58	10 4 55'4	4174 4169 4148 4142
	+ 3°361	2 33 11'38	4 12 18'1	4053 4122		+ 9°2863	14 11 22'81	9 12 50'5	4422 4424 4435 4439
80	+ 4°2454	11 20 29'06	4 24 41'9	1215 1198 8105 8126	91	+ 8°2824	14 9 13'36	7 34 39'9	4002 4004
	+ 5°2491	11 20 28'52	5 6 23'2	6243 6245 7447 7450		+ 8°2827	14 10 18'42	8 14 34'1	4042 4036
	+ 4°2464	11 23 26'36	4 13 29'2	2542 2557 10658 10676		+ 7°2760	14 11 25'06	7 21 20'9	1956 1960
81	+ 15°1676	7 47 42'75	14 58 12'3	2004 1985	92	+ 0°3190	14 26 23'79	0 6 44'4	0646 0643
	+ 14°1773	7 50 30'97	14 38 42'5	4131 4150		+ 0°3193	14 27 5'75	0 29 39'2	5048 5027
	+ 15°1701	7 51 58'86	15 11 0'9	3865 3866		+ 0°3196	14 28 37'87	0 0 57'3	4306 4330
82	+ 10°1796	8 23 8'30	10 0 16'0	6256	93	- 4°3779	14 54 6'33	4 55 49'8	2922 2909
	+ 11°1838	8 23 58'03	10 49 33'1	1346		- 5°3969	14 54 16'85	5 33 32'6	3832 3835
	+ 10°1807	8 26 18'22	10 27 3'2	2398		- 5°3987	14 58 30'66	5 44 53'3	3246 3256
83	+ 6°1947	8 21 23'99	6 4 56'5	3640 3655					
	+ 5°1964	8 22 14'66	5 30 51'1	3263 3264					
	+ 6°1957	8 24 16'50	6 19 28'0	3098 3081					

Approximate positions of 68 known and 10 new minor planets on Johannesburg plates taken in 1940, by *H. van Gent*.

On plates taken during 1940 with the 10-inch Franklin-Adams camera at Johannesburg a number of minor planets have been detected by comparing plate pairs in the Union Observatory's blink microscope. The results have been collected in the following list, the objects having been listed according to number. The positions have been obtained by superposing Franklin-Adams plates on the Bonner Durchmusterung, resp. Córdoba Durchmusterung map, which very nearly are on the same scale as the plates, and measuring the object's distance to the nearest right ascension and declination lines on the map by means of a millimetre scale read to a tenth

of a millimetre. The positions, which were reduced to 1950, are accurate to about  $m:1$  in right ascension and  $1'$  in declination respectively. The figure for the object's brightness was found by eye estimate on the plate by means of a  $10 \times$  magnifying glass and does not claim high accuracy. The identifications have been made with the aid of the minor planet ephemerides for 1940, issued by the Copernicus Institute (Astronomisches Recheninstitut), Berlin-Dahlem. Professor Dr. G. STRACKE was kind enough to check the identifications, for which I want to convey my sincere thanks to him on this place. Position and date in the list refer to the mean of the two plates of a pair,

which as a rule were taken on the same field in the sky directly one after another with an exposure of 30 minutes each. The last two columns of the list contain the comparison between the object's position and the ephemeris from „Kleine Planeten 1940“; if this ephemeris had to be extrapolated the result of

the comparison has been placed between parentheses.

Astronomers engaged in work on a specified minor planet of this list, and desiring accurate positions instead of the approximate ones given here, are asked to communicate their wishes to the writer.

Planet	Date	1940	$\alpha$ (1950)	$\delta$ (1950)	Estim. magn.	O—C	Planet	Date	1940	$\alpha$ (1950)	$\delta$ (1950)	Estim. magn.	O—C	
30 Urania	Mar.	2'930	11 <sup>h</sup> 06' <sup>m</sup> 4	+03 31	9	-1'8 +11	648 Pippa	Aug.	8'923	20 28' <sup>h</sup> 2	-15 16	13'9	+ '1 + 1	
32 Pomona	May	3'112	17 20'8	-19 29	10'0		665 Sabine	Mar.	2'973	9 57'2	-00 47	13'5	-3'0 + 23	
42 Isis	June	11'014	17 02'1	-20 53	9	+ '8 - 5	673 Edda	June	11'014	17 15'6	-20 41	13'5	+3'9 + 4	
53 Kalypso	Aug.	1'834	19 55'9	-17 54	13'5	+2'8 + 1		June	13'014	17 13'9	-20 39	13'5	+4'0 + 2	
57 Mnemosyne	Febr.	27'811	10 07'0	-04 37	11	+ '1 - 1		June	26'754	17 02'2	-20 12	13'8	+4'0 + 5	
59 Elpis	Aug.	7'862	20 14'0	-10 12	11'5	+1'0 + 1	677 Aaltje	Mar.	2'886	10 39'8	-04 41	13'5	- '1 + 1	
66 Maja	Aug.	1'834	20 27'7	-23 36	13'5	+1'8 + 7	678 Fredegundis	Aug.	7'862	19 53'6	-16 56	12'7	+ '6 + 8	
69 Hesperia	Aug.	7'862	19 47'9	-10 13	12'7	+ '5 + 2	700 Auravictrix	June	11'014	17 02'7	-18 29	13'5	+ '6 - 1	
73 Klytia	Febr.	14'884	10 05'2	+14 24	12'3	+ '3 - 2		June	13'014	17 00'6	-18 37	13'2	+ '6 - 2	
74 Galatea	May	3'112	17 05'9	-18 35	12'8	(- '1 + 2)	701 Oriola	Mar.	2'886	10 57'8	-04 42	13'0	+1'9 -10	
77 Frigga	Aug.	1'877	20 59'5	-20 15	12'5	- '1 - 1	754 Malabar	Mar.	2'886	11 08'5	-04 11	12'7	+ '1 + 4	
84 Klio	Mar.	2'930	10 44'2	+04 23	12'0	'0 + 3	764 Gedania	June	26'754	17 26'7	-21 45	13'7	- '7 - 2	
104 Klymene	Aug.	1'834	20 18'9	-23 46	13'4	- '1 - 1	823 Sisigambis	Aug.	7'862	20 01'6	-15 38	13'7	-3'4 -11	
105 Artemis	Febr.	27'811	10 20'5	-09 54	11	'0 - 2	868 Lova	June	11'014	17 19'7	-17 56	13'5	+ '3 - 4	
106 Dione	May	3'070	16 26'0	-21 29	12'0	- '7 + 5		June	13'014	17 17'9	-17 58	13'5	+ '3 - 5	
124 Alkestes	Aug.	7'862	20 18'5	-15 17	11'8	- '5 0		June	26'754	17 05'6	-18 05	13'5	+ '4 - 4	
126 Velleda	Aug.	1'834	19 58'8	-25 53	12'4	- '7 + 4	883 Matteriana	June	7'930	16 19'0	-26 35	13'7	-1'3 + 9	
142 Polana	Aug.	1'834	20 26'6	-18 11	13'3	+1'8 + 9	939 Isberga	Aug.	8'967	21 22'4	-16 28	13'0	- '6 -24	
175 Andromache	June	11'014	17 14'3	-27 02	12'0	-3'5 + 5	976 Benjamina	June	11'014	17 12'2	-20 23	13'2	-3'3 - 1	
216 Kleopatra	Mar.	2'800	9 38'4	-04 12	11'2	-1'5 + 3		June	13'014	17 10'5	-20 14	13'2	-3'4 + 1	
219 Thusnelda	Mar.	2'886	10 54'9	-03 35	13'0	- '1 + 1		June	26'754	17 00'0	-19 34	13'8	-3'1 0	
226 Weringia	Aug.	8'923	20 34'4	-16 21	12'8	-3'9 + 2	996 Hilaritas	May	3'070	16 20'8	-22 22	14'0	'0 + 4	
235 Carolina	May	3'070	16 38'2	-20 42	11'5	+3'0 -22		June	1'840	15 56'8	-21 24	14'5	'0 0	
258 Tyche	Mar.	2'800	9 31'9	-03 42	13'2	- '7 - 4	1062 Larissa	May	3'070	16 25'7	-22 35	13'8	-2'4 + 8	
272 Antonia	June	7'930	16 19'6	-25 13	13'0	+ '3 0 <sup>1)</sup>		June	1'840	16 05'7	-22 03	13'9	-2'5 + 7	
275 Sapiencia	Aug.	8'967	21 33'0	-15 09	13'0	- '8 - 9	1180 Rita	June	26'754	17 21'4	-22 34	13'5	- '1 - 1 <sup>2)</sup>	
291 Alice	June	26'754	17 17'1	-20 01	13'8	- '2 - 2	1232 Cortusa	Mar.	2'886	11 03'4	-10 34	14'0	-1'5 +10	
342 Endymion	June	11'014	17 02'3	-18 04	13'5	- '5 - 2	1248 Jugurtha	May	3'112	17 14'8	-20 01	13'2	(+2'7 -12)	
352 Gisela	Aug.	8'923	20 52'5	-11 18	13'2	- '6 - 9		June	7'930	16 45'7	-20 57	12'0	+2'7 -11	
354 Eleonora	Febr.	14'884	9 58'9	+15 24	9'5	- '4 + 1	1266 Tone	Mar.	2'973	10 20'1	+03 20	14'0	+2'5 -17	
357 Ninina	Aug.	8'923	20 34'4	-15 13	13'2	-1'6 0	1281 Jeanne?	Mar.	9'925	10 18'4	+01 25	13'5	-2'0 +26 <sup>3)</sup>	
435 Ella	Aug.	1'923	21 37'2	-17 38	12'8	+2'8 +13	1343 Nicole	Aug.	1'923	21 23'6	-26 34	13'5	-2'6 -14	
444 Gypsis	Mar.	2'930	10 40'8	-00 37	11'7	+ '3 - 1	1378 Leonce	May	3'070	16 24'8	-23 04	13'8	+2'5 - 6	
498 Tokio	June	26'754	17 24'2	-20 10	9'5	+1'3 - 5		June	1'840	15 57'6	-23 22	13'5	+2'8 -11	
503 Evelyn	May	3'070	16 37'0	-21 04	12'5	(- '2 - 1)	1458 Mineura	Mar.	2'930	10 58'0	+00 07	14'2	+1'0 - 4	
514 Armida	Aug.	8'967	21 37'2	-09 27	13'0	+ '2 - 2		May	3'112	17 23'8	-23 00	14'0		
523 Ada	Mar.	2'973	10 09'9	+04 20	13'6	- '2 - 2	1940 IP	June	1'840	16 08'8	-21 54	14'5		
524 Fidelio	Aug.	1'923	21 18'1	-19 06	13'0	+ '9 + 3	1940 LI	June	1'840	16 16'1	-18 24	13'8		
530 Turandot	Aug.	1'834	20 17'9	-18 34	13'2	-3'7 - 6	1940 LK	June	1'840	16 16'1	-18 24	13'8		
537 Pauly	Febr.	14'884	10 10'6	+17 45	13'5	-1'7 + 8	1940 LL	June	3'854	16 27'6	-21 56	13'9		
544 Jetta	Mar.	2'973	10 20'0	+01 25	14'0	+1'0 -11		June	7'930	16 23'3	-21 56	14'0		
586 Thekla	Aug.	8'967	21 23'6	-12 52	13'5	'0 - 1	1940 LM	June	12'971	16 18'2	-21 57	14'0		
619 Triberga	Mar.	2'930	10 46'9	-02 01	13'8	- '1 - 1		June	10'970	16 20'1	-21 56	14'0		
644 Cosima	Aug.	8'967	21 06'1	-17 22	13'6	+1'6 +12	1940 LN	June	12'971	16 18'2	-21 57	14'0		
								June	3'854	16 33'1	-22 36	13'7		
								June	7'930	16 29'8	-22 32	13'8		
								June	10'970	16 27'4	-22 31	13'8		
								June	12'971	16 25'7	-22 27	14'0		
								June	3'854	16 34'6	-22 12	13'8		
								June	7'930	16 30'3	-22 08	13'8		
								June	10'970	16 27'2	-22 08	13'8		
								June	12'971	16 25'3	-22 05	14'0		
								June	14'047	16 24'3	-22 03	14'1		
								1940 LO	June	11'014	17 20'8	-25 05	13'5	
								June	13'014	17 18'8	-25 14	13'5		
								1940 LP	June	11'014	17 21'0	-20 12	13'9	
								June	13'014	17 19'2	-20 10	13'8		
								1940 QI	Aug.	8'967	21 25'3	-14 43	13'5	
								Doubtful object	May	3'070	16 22'3	-22 47	14'1	

1) RI 2114. 2) RI 2130. 3) Variation does not fit.

ERRATA B.A.N. No. 343, page 240, plate 5523, planet (27),

column 5, for  $13^h 5^m 32^s.294$ , read  $13^h 5^m 32^s.295$  | column 7, for  $-4^{\circ} 41' 46''.95$ , read  $-4^{\circ} 42' 15''.52$   
 $13^h 5^m 32^s.455$ , read  $13^h 5^m 32^s.456$  |  $-4^{\circ} 41' 47''.67$ , read  $-4^{\circ} 42' 16''.14$