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COMMUNICATION FROM THE OBSERVATORY AT LEIDEN

Observations of minor planets from 1940 Jan. 2 to 1941 Jan. 30, by *G. van Herk*.

This note is a continuation of *B.A.N.* Nos. 324 and 336 and comprises results of observations of the planets of Professor BROUWER's programme.

The observations and reductions have been carried out along the same lines as are published in the preceding notes. A list of abbreviations may be found in *B.A.N.* No. 324; other abbreviations are: e, Eastman Spectroscopic IG 9 × 12 in connection with an OG1 filter; Γ, Gevaert Ultra Rapid 16 × 16.

The mean tilt of the plate was again derived from the comparison of the motions of the planets as computed from the ephemerides with the values derived from the observations. The following mean absolute values were found:

instrument not reversed instrument reversed

α coord. δ coord. α coord. δ coord.
08°013 (119) 0"16 (119) 08°014 (13) 0"20 (13)

Of the plates 87 have been measured by Mr. G. PELS, who has performed the greatest part of the reductions, 1 by Mr. L. GAYKEMA and 23 by the writer.

In Table 2 the sign of the declinations has been omitted, which is given by the first column; in those cases where the sign is reversed the BD number is given in italics. The few cases with a negative dependence are printed in italics.

TABLE 1, 1940.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	Remarks
5248	vH	(1) Jan 13'17170	120 ^s	h m s 11 43 50'259	8'112	+ 16° 24' 9"22	0'708	1	m 8'2			G; *3: 9'5
		13'17378	120	11 43 50'302	8'252	+ 16 24 9'99	0'708	1	8'2			*3: 9'6
5279	D	Feb 13'12600	150	11 40 29'229	9'046	+ 19 49 42'50	0'676	2	7'8			G; *2: 11'0
		13'12808	150	11 40 29'163	9'065	+ 19 49 43'39	0'677	2				
		13'13071	246	11 40 29'068	9'087	+ 19 49 44'57	0'678	2				
5302	vH	Mar 6'89234	30	11 23 37'712	9'405 _n	+ 22 32 17'11	0'682	3	7'4			G;
		6'89344	40	11 23 37'650	9'402 _n	+ 22 32 17'70	0'681	3				
		6'89459	40	11 23 37'596	9'398 _n	+ 22 32 18'08	0'680	3	7'5			
5303	vH	6'90804	170	11 23 36'868	9'350 _n	+ 22 32 22'35	0'670	3				e;
		6'91081	170	11 23 36'724	9'338 _n	+ 22 32 23'36	0'668	3				
5312	vH	23'84875	70	11 9 22'785	9'364 _n	+ 23 33 7'08	0'661	4	7'7			G; damp
5327	vH	Apr 6'92768	180	11 0 40'363	8'762	+ 23 28 22'72	0'624	5				e;
		6'93045	180	11 0 40'277	8'810	+ 23 28 22'65	0'624	5				
5328	vH	6'93804	55	11 0 40'071	8'920	+ 23 28 21'50	0'626	5				E;
		6'93925	55	11 0 40'023	8'935	+ 23 28 21'45	0'627	5				
		6'94515	55	11 0 39'852	9'001	+ 23 28 20'65	0'629	5				
		6'94635	55	11 0 39'821	9'013	+ 23 28 20'44	0'629	5				
5339	vH	16'86945	45	10 57 21'649	8'108 _n	+ 22 56 49'54	0'629	6	8'2			E;
		16'87049	45	10 57 21'625	8'012 _n	+ 22 56 49'26	0'629	6	8'4			
5347	vH	May 1'90361	90	10 57 16'617	9'219	+ 21 33 46'33	0'665	7	8'3			Γ; *2: 10'4
		1'90534	90	10 57 16'634	9'229	+ 21 33 45'78	0'666	7	8'3			*2: 10'5
5348	vH	1'91042	90	10 57 16'672	9'256	+ 21 33 43'43	0'669	7	8'5			E; *1: 9'2; *2: 10'5
		1'91210	90	10 57 16'690	9'265	+ 21 33 42'99	0'670	7	8'5			*1: 9'2; *2: 10'4
		1'92058	90	10 57 16'778	9'305	+ 21 33 39'39	0'675	7				
		1'92231	90	10 57 16'805	9'313	+ 21 33 38'80	0'676	7				
5358	vH	4'89302	90	10 57 56'269	9'201	+ 21 13 9'20	0'668	7	8'8			Γ; *1: 9'2; *2: 10'4
		4'89475	90	10 57 56'287	9'211	+ 21 13 8'37	0'669	7				
5304	vH	(2) Mar 6'92186	45	7 2 40'775	9'329	— 12 17 33'58	0'886	8	9'0			G;
		6'92327	50	7 2 40'816	9'334	— 12 17 31'52	0'886	8				
5313	vH	24'83136	160	7 17 23'918	9'017	— 5 22 40'86	0'868	9				E; damp

TABLE I, 1940 (continued).

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	Remarks	
5313	vH	(2) Mar 24 ^s 83447	160	h m s 7 17 24 ^s 114	9 ^s 044	—	5 22 37 ^s 07	0 ^s 867	9	m			
5315	vH	28 ^s 83623	48	7 21 47 ^s 457	9 ^s 118	—	3 58 58 ^s 07	0 ^s 860	10	9 ^s 3	I	E; *1: 11 ^s 1	
		28 ^s 83728	50	7 21 47 ^s 520	9 ^s 125	—	3 58 56 ^s 76	0 ^s 860	10	9 ^s 2	I	*1: 11 ^s 0	
5322	vH	Apr 6 ^s 83343	50	7 32 52 ^s 767	9 ^s 205	—	1 5 46 ^s 84	0 ^s 846	11	9 ^s 2	I	E; *1: 9 ^s 8	
		6 ^s 83482	50	7 32 52 ^s 863	9 ^s 212	—	1 5 45 ^s 59	0 ^s 846	11		I		
5323	vH	6 ^s 84422	180	7 32 53 ^s 598	9 ^s 260	—	1 5 35 ^s 61	0 ^s 845	11		I	e;	
		6 ^s 84699	180	7 32 53 ^s 830	9 ^s 272	—	1 5 32 ^s 26	0 ^s 845	11		I		
5337	vH	16 ^s 83101	45	7 46 54 ^s 720	9 ^s 280	+	1 40 55 ^s 28	0 ^s 831	12	9 ^s 2	I	E; *3: 9 ^s 7	
		16 ^s 83205	45	7 46 54 ^s 814	9 ^s 284	+	1 40 56 ^s 27	0 ^s 831	12	9 ^s 1	I	*3: 10 ^s 2	
5344	vH	May 1 ^s 84509	90	8 10 34 ^s 191	9 ^s 414	+	4 59 52 ^s 33	0 ^s 817	13	9 ^s 2	I	E;	
		1 ^s 84682	90	8 10 34 ^s 361	9 ^s 419	+	4 59 53 ^s 56	0 ^s 817	13	9 ^s 1	I		
		(3)											
5426	vH	Oct 20 ^s 19058	180	9 19 34 ^s 852	9 ^s 350 _n	+	5 17 22 ^s 30	0 ^s 812	14	10 ^s 4	I	Γ; *2: 10 ^s 3	
		20 ^s 19577	180	9 19 35 ^s 326	9 ^s 331 _n	+	5 17 20 ^s 02	0 ^s 812	14	10 ^s 5	I	*2: 10 ^s 1	
5462	vH	Nov 28 ^s 20820	100	10 6 58 ^s 634	8 ^s 517 _n	+	0 47 16 ^s 70	0 ^s 835	15	10 ^s 5	I	Γ;	
		28 ^s 20990	96	10 6 58 ^s 714	8 ^s 463 _n	+	0 47 16 ^s 19	0 ^s 835	15	10 ^s 5	I	cloud	
5483	D	Dec 21 ^s 16275	80	10 20 44 ^s 052	8 ^s 181 _n	—	0 37 3 ^s 72	0 ^s 843	16	10 ^s 0	I	Γ; *2: 10 ^s 3; unsteady	
		21 ^s 16393	65	10 20 44 ^s 071	8 ^s 096 _n	—	0 37 3 ^s 76	0 ^s 843	16		I		
		(4)											
5239	vH	Jan 12 ^s 82237	110	1 50 25 ^s 806	9 ^s 171	+	4 23 20 ^s 02	0 ^s 814	17		I	G; unsteady	
		12 ^s 82468	110	1 50 25 ^s 876	9 ^s 185	+	4 23 20 ^s 98	0 ^s 815	17		I		
5240	vH	12 ^s 84343	420	1 50 26 ^s 649	9 ^s 280	+	4 23 27 ^s 56	0 ^s 816	18		I	e;	
		12 ^s 84932	420	1 50 26 ^s 862	9 ^s 305	+	4 23 30 ^s 16	0 ^s 817	18		I		
5264	vH	22 ^s 72757	76	1 57 58 ^s 677	8 ^s 108 _n	+	5 40 41 ^s 46	0 ^s 803	19		I	G;	
		22 ^s 72965	76	1 57 58 ^s 795	7 ^s 908 _n	+	5 40 42 ^s 49	0 ^s 803	19		I		
5265	D	23 ^s 75912	195	1 58 51 ^s 716	8 ^s 804	+	5 49 0 ^s 86	0 ^s 802	20		I	G;	
		23 ^s 76371	180	1 58 51 ^s 974	8 ^s 869	+	5 49 3 ^s 06	0 ^s 803	20		I	clouds	
		23 ^s 76769	180	1 58 52 ^s 165	8 ^s 918	+	5 49 4 ^s 98	0 ^s 803	20		I		
5425	vH	Oct 20 ^s 16720	90	9 16 54 ^s 474	9 ^s 433 _n	+	17 7 34 ^s 06	0 ^s 740	21	8 ^s 6	I	Γ;	
		20 ^s 16876	120	9 16 54 ^s 605	9 ^s 429 _n	+	17 7 33 ^s 65	0 ^s 739	21	8 ^s 7	I	damp	
		20 ^s 17673	120	9 16 55 ^s 250	9 ^s 407 _n	+	17 7 31 ^s 76	0 ^s 735	21		I		
		20 ^s 17932	150	9 16 55 ^s 485	9 ^s 399 _n	+	17 7 30 ^s 95	0 ^s 734	21		I		
5444	vH	29 ^s 17913	60	9 28 48 ^s 277	9 ^s 342 _n	+	16 32 4 ^s 12	0 ^s 730	22		I	Γ;	
		29 ^s 18040	60	9 28 48 ^s 369	9 ^s 337 _n	+	16 32 3 ^s 86	0 ^s 730	22		I		
5461	vH	Nov 28 ^s 19619	60	10 0 40 ^s 070	8 ^s 715 _n	+	15 13 40 ^s 42	0 ^s 721	23	8 ^s 4	I	Γ; unsteady	
		28 ^s 19757	60	10 0 40 ^s 142	8 ^s 688 _n	+	15 13 40 ^s 23	0 ^s 721	23	8 ^s 5	I		
		28 ^s 19905	77	10 0 40 ^s 205	8 ^s 656 _n	+	15 13 40 ^s 32	0 ^s 721	23		I		
5482	D	Dec 21 ^s 14463	60	10 13 42 ^s 793	8 ^s 671 _n	+	15 27 25 ^s 34	0 ^s 718	24		I	Γ;	
		21 ^s 14647	60	10 13 42 ^s 837	8 ^s 629 _n	+	15 27 25 ^s 68	0 ^s 718	24		I		
5493	vH	22 ^s 24723	70	10 14 0 ^s 786	9 ^s 282	+	15 30 19 ^s 49	0 ^s 734	25		I	Γ; unsteady; images deformed	
		22 ^s 24867	70	10 14 0 ^s 800	9 ^s 289	+	15 30 19 ^s 85	0 ^s 734	25		I		
5494	vH	22 ^s 26154	210	10 14 1 ^s 006	9 ^s 342	+	15 30 21 ^s 69	0 ^s 740	25		I	e;	
		22 ^s 26466	210	10 14 1 ^s 042	9 ^s 353	+	15 30 22 ^s 20	0 ^s 741	25		I		
		(6)											
5245	vH	Jan 13 ^s 08271	360	9 32 23 ^s 829	8 ^s 240	+	11 2 22 ^s 58	0 ^s 760	26	9 ^s 6	2	I	G; *1: 9 ^s 5
		13 ^s 08756	360	9 32 23 ^s 620	8 ^s 480	+	11 2 25 ^s 10	0 ^s 760	26	9 ^s 4	2	I	*1: 9 ^s 5
5307	vH	Mar 7 ^s 85071	180	8 47 46 ^s 107	9 ^s 014 _n	+	19 21 3 ^s 13	0 ^s 681	27	10 ^s 5	3	I	E; cloud
		7 ^s 85867	180	8 47 45 ^s 879	8 ^s 928 _n	+	19 21 6 ^s 35	0 ^s 679	27		3	I	
		7 ^s 86127	180	8 47 45 ^s 799	8 ^s 895 _n	+	19 21 7 ^s 19	0 ^s 678	27		3	I	
		7 ^s 87102	190	8 47 45 ^s 540	8 ^s 743 _n	+	19 21 10 ^s 89	0 ^s 676	27		3	2	
		7 ^s 87408	180	8 47 45 ^s 442	8 ^s 682 _n	+	19 21 12 ^s 07	0 ^s 676	27		3	2	
5317	vH	28 ^s 89862	300	8 44 38 ^s 752	9 ^s 181	+	20 56 12 ^s 10	0 ^s 670	28	11 ^s 0	3	I	E;
		28 ^s 90318	310	8 44 38 ^s 791	9 ^s 209	+	20 56 12 ^s 78	0 ^s 672	28		3	I	
5324	vH	Apr 6 ^s 85799	165	8 46 56 ^s 141	9 ^s 047	+	21 15 0 ^s 63	0 ^s 659	29	11 ^s 6	I	E; *1: 11 ^s 5	
		6 ^s 86067	150	8 46 56 ^s 196	9 ^s 071	+	21 15 1 ^s 06	0 ^s 660	29	11 ^s 5	I	*1: 11 ^s 5	
		6 ^s 86864	150	8 46 56 ^s 350	9 ^s 134	+	21 15 1 ^s 63	0 ^s 663	29		2		
		6 ^s 87106	150	8 46 56 ^s 420	9 ^s 151	+	21 15 1 ^s 74	0 ^s 664	29		2		
5345	vH	May 1 ^s 85634	300	9 2 38 ^s 125	9 ^s 366	+	21 11 11 ^s 21	0 ^s 688	30	11 ^s 6	I	G; *1: 11 ^s 0; *2: 11 ^s 2; *3: 11	
		1 ^s 86050	300	9 2 38 ^s 347	9 ^s 380	+	21 11 10 ^s 75	0 ^s 691	30		I		
5357	vH	4 ^s 87622	360	9 5 21 ^s 902	9 ^s 447	+	21 7 5 ^s 47	0 ^s 708	31	11 ^s 9	I	E; *3: 10 ^s 4	
		4 ^s 88107	360	9 5 22 ^s 163	9 ^s 459	+	21 7 4 ^s 90	0 ^s 711	31	11 ^s 9	I	*3: 10 ^s 5	
		(7)											
5423	vH	Oct 20 ^s 13794	120	8 26 19 ^s 287	9 ^s 419 _n	+	17 40 8 ^s 28	0 ^s 733	32	10 ^s 1	I	Γ; *1: 10 ^s 0; *2: 10 ^s 0; *3:	
		20 ^s 14002	120	8 26 19 ^s 476	9 ^s 413 _n	+	17 40 7 ^s 33	0 ^s 732	32		I		
5442	vH	29 ^s 13688	120	8 39 10 ^s 550	9 ^s 370 _n	+	16 26 24 ^s 69	0 ^s 735	33	10 ^s 4	I	Γ; *2: 10 ^s 5	
		29 ^s 13896	120	8 38 10 ^s 701	9 ^s 363 _n	+	16 26 23 ^s 78	0 ^s 734	33		I		
5459	vH	Nov 28 ^s 16096	75	9 7 27 ^s 305	8 ^s 678 _n	+	12 41 36 ^s 82	0 ^s 745	34		I	Γ; unsteady!	
		28 ^s 16234	75	9 7 27 ^s 345	8 ^s 648 _n	+	12 41 36 ^s 63	0 ^s 745	34		I	uncertain; images double	
		28 ^s 16408	76	9 7 27 ^s 411	8 ^s 606 _n	+	12 41 35 ^s 71	0 ^s 745	34	10 ^s 2	I		

TABLE I, 1940 (continued).

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	Remarks	
481	D	(7) Dec	21'11877 21'12143 21'12339	80 ^s 80 80	9 9 56'594 9 9 56'540 9 9 56'503	7'57 ^I _n 7'384 7'843	+ 10 50 4'44 + 10 50 4'06 + 10 50 3'59	0'761 0'761 0'761	35 35 35			I I I	Γ;
492	vH		22'22374 22'22513 22'22651	80 80 80	9 9 35'119 9 9 35'110 9 9 35'070	9'358 9'363 9'367	+ 10 46 42'14 + 10 46 41'95 + 10 46 41'75	0'778 0'778 0'779	35 35 35	9'5		I I I	Γ; unsteady!
399	vH	(12) Sep	30'16388 30'17219	600 600	7 9 47'728 7 9 48'200	9'339 _n 9'305 _n	+ 18 18 39'77 + 18 18 37'57	0'714 0'710	36 36			I I	Γ;
408	vH	Oct	2'16673 2'17366	480 480	7 11 40'170 7 11 40'595	9'310 _n 9'279 _n	+ 18 9 36'83 + 18 9 35'08	0'712 0'708	37 37			I I	Γ; damp!
422	vH		20'11890 20'12153	480 480	7 25 3'634 7 25 3'824	9'339 _n 9'314 _n	+ 16 46 54'69 + 16 46 52'94	0'728 0'725	38 38	11'2		I I	Γ; *1: 9'4; *2: 9'4 *1: 9'3; *2: 9'4
5441	vH		29'10918 29'11818	660 660	7 29 9'784 7 29 9'931	9'287 _n 9'244 _n	+ 16 6 7'74 + 16 6 5'62	0'729 0'726	39 39	11'9	4	I I	Γ; *1: 9'7; *3: 10'1 *1: 9'6; *3: 10'0
5456	vH	Nov	21'04142 21'04696	420 420	7 30 9'279 7 30 9'175	9'309 _n 9'285 _n	+ 14 33 43'13 + 14 33 41'85	0'744 0'743	40 40	12'9		I I	Γ; *1: 10'2; unsteady!
5217	vH	(27) Jan	9'81700	480	0 20 48'407	9'380	+ 0 46 33'56	0'837	41	11'4	3	I	G;
5484	D	Dec	21'25301 21'25804	360 361	12 29 50'555 12 29 50'909	8'122 _n 7'262 _n	- 1 34 20'31 - 1 34 22'72	0'849 0'849	42 42	11'3		I I	Γ; unsteady!
5495	vH		22'28241	405	12 31 9'023	8'760	- 1 41 56'07	0'849	43			I	Γ; planet very faint
5247	vH	(57) Jan	13'14123 13'15300	900 900	10 32 46'140 10 32 45'936	8'742 8'912	- 7 24 39'08 - 7 24 39'69	0'878 0'877	44 44		4 4	I I	G; unsteady
5326	vH	Apr	6'90309 6'91002	480 480	9 49 42'795 9 49 42'740	9'031 9'087	+ 0 22 3'22 + 0 22 5'97	0'838 0'838	45 45	12'1	4 4	I I	G;
5338	vH		16'84529 16'85187	480 480	9 49 46'938 9 49 46'968	8'597 8'735	+ 1 22 11'22 + 1 22 13'38	0'831 0'831	46 46	12'9	4 4	I I	G; damp
5424	vH	(185) Oct	20'15058 20'15578	390 390	8 14 37'785 8 14 38'085	9'330 _n 9'310 _n	+ 0 32 55'65 + 0 32 54'03	0'837 0'837	47 47	11'7 11'6		I I	Γ; *1: 10'1; *2: 9'7; *3: 9'7 *1: 10'1; *2: 9'7; *3: 9'7
5460	vH	Nov	28'18147 28'18598	330 330	8 35 36'595 8 35 36'619	8'699 8'779	- 2 18 24'57 - 2 18 24'82	0'853 0'853	48 48	13'3 12'9		I I	Γ; *1: 10'3; unsteady; planet bad *1: 10'2
5480	D	Dec	21'10342	300	8 31 26'017	8'343	- 2 26 43'04	0'854	49	12'7		I	Γ; *1: 10'3; *2: 9'8; unsteady
5246	vH	(216) Jan	13'10591 13'11699	900 900	10 14 40'735 10 14 40'478	7'507 8'456	- 7 21 35'90 - 7 21 36'71	0'878 0'878	50 50		3 3	I I	G; unsteady
5305	vH	Mar	6'93718 6'94209 6'95503	420 400 243	9 35 45'205 9 35 45'026 9 35 44'507	8'208 8'436 8'753	- 3 38 27'00 - 3 38 24'94 - 3 38 18'89	0'860 0'860 0'860	51 51 51		4 4 4	I I I	G; end in clouds
5316	vH		28'85326	420	9 26 26'679	9'370 _n	- 0 52 1'63	0'845	52	12'9	4	I	G; clouds; planet uncertain
5325	vH	Apr	6'88508 6'89132	480 480	9 25 40'841 9 25 40'841	9'019 9'071	+ 0 6 48'68 + 0 6 51'20	0'839 0'839	53 53	14'4 14'2	4 4	I I	G;
5346	vH	May	1'87781 1'88823	720 725	9 32 30'522 9 32 30'812	9'338 9'373	+ 1 58 39'09 + 1 58 40'57	0'830 0'830	54 54	12'8	4 4	I I	G; images uncertain
5374	vH	(287) Aug	7'10002 7'10556	360 360	2 35 40'677 2 35 40'947	9'392 _n 9'375 _n	+ 5 42 53'47 + 5 42 52'86	0'812 0'812	55 55			I I	Γ; very faint and uncertain
5386	vH	Sep	5'12455 5'13149	541 539	2 55 0'631 2 55 0'737	8'808 _n 8'687 _n	+ 4 15 54'97 + 4 15 52'90	0'813 0'813	56 56			I I	G;
5394	vH		10'15146	483	2 56 14'873	8'413	+ 3 48 4'59	0'816	57			I	Γ; faint
5398	vH		30'14276 30'14809	420 420	2 53 53'882 2 53 53'743	9'117 9'158	+ 1 27 11'44 + 1 27 8'68	0'832 0'832	58 58			I I	Γ;
5407	vH	Oct	2'14388 2'15046	480 480	2 53 0'948 2 53 0'747	9'164 9'203	+ 1 11 16'45 + 1 11 13'13	0'834 0'834	59 59	12'4 12'3		I I	Γ; *1: 10'0; *2: 10'5; *3: 9'9 *1: 10'0; *2: 10'3; *3: 9'8
5410	vH		11'09433 11'09987	360 360	2 47 45'986 2 47 45'710	9'002 9'051	- 0 0 46'93 - 0 0 49'98	0'840 0'840	60 60			I I	Γ;
5421	vH		20'06159 20'06713	390 390	2 40 44'229 2 40 43'944	8'969 9'022	- 1 10 2'45 - 1 10 5'05	0'847 0'847	61 61			I I	Γ;
5440	vH		29'06659 29'07178	300 360	2 32 34'069 2 32 33'766	9'224 9'250	- 2 10 16'38 - 2 10 18'21	0'851 0'851	62 62	12'2		I I	Γ;
5448	vH	Nov	14'91309 14'91862	421 420	2 17 20'923 2 17 20'682	8'654 _n 8'513 _n	- 3 19 9'25 - 3 19 10'04	0'858 0'859	63 63			I I	Γ;
5455	vH		20'95035 20'95589	360 360	2 12 46'547 2 12 46'318	8'921 8'980	- 3 26 42'63 - 3 26 42'96	0'859 0'859	64 64	12'8		I I	Γ; *2: 10'1; *3: 10'2
5478	vH	Dec	20'82224 20'83125	720 720	2 3 34'741 2 3 34'777	7'816 _n 8'144	- 1 57 5'30 - 1 57 2'97	0'851 0'851	65 65			I I	Γ; unsteady!
5497	vH		22'80053	720	2 3 50'238	8'642 _n	- 1 45 5'62	0'850	66			I	Γ;

TABLE 1, 1940 (continued).

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	Remarks
5497	vH	(287) Dec 22'80987	720 ^s	^{h m s} 2 3 50'321	8'355 _n	— 1 45' 2'47	0'850	66		m	1	Γ;
5371	vH	(409) Aug 6'10033	419	1 36 54'915	9'275 _n	+ 21 43 0'67	0'670	67			1	Γ; unsteady
5373	vH	6'10586	420	1 36 55'102	9'246 _n	+ 21 43 2'64	0'667	67			1	
		7'06124	360	1 37 21'188	9'417 _n	+ 21 47 16'89	0'694	68			1	Γ;
		7'06678	360	1 37 21'333	9'400 _n	+ 21 47 19'29	0'690	68			1	
		7'07927	360	1 37 21'649	9'356 _n	+ 21 47 21'66	0'681	68			2	
		7'08478	360	1 37 21'738	9'334 _n	+ 21 47 23'92	0'678	68			2	
5385	vH	Sep 5'10204	480	1 40 27'803	7'296	+ 22 53 52'47	0'631	69			1	G;
		5'10897	480	1 40 27'702	8'280	+ 22 53 52'51	0'631	69			1	
5393	vH	10'11803	210	1 38 52'315	8'888	+ 22 50 15'85	0'636	70			1	G; clouds
		10'12651	480	1 38 52'122	8'990	+ 22 50 15'24	0'638	70			1	
		10'13344	480	1 38 51'945	9'057	+ 22 50 14'83	0'641	70			1	
5397	vH	30'12250	330	1 26 54'353	9'355	+ 21 42 8'84	0'682	71	11'7		1	Γ; *2: 9'9
		30'12701	330	1 26 54'144	9'372	+ 21 42 7'00	0'685	71			1	
5406	vH	Oct 2'10804	330	1 25 20'327	9'323	+ 21 30 40'39	0'679	72	12'3		1	Γ; *1: 10'3; *2: 10'7; *3: 10'4
		2'11288	330	1 25 20'067	9'342	+ 21 30 38'38	0'682	72			1	
		2'12327	330	1 25 19'566	9'381	+ 21 30 34'67	0'689	72			2	
		2'12847	330	1 25 19'312	9'398	+ 21 30 32'72	0'692	72			2	
5409	vH	11'07321	300	1 17 49'227	9'298	+ 20 29 19'66	0'687	73			1	Γ;
		11'07875	300	1 17 48'946	9'322	+ 20 29 17'05	0'690	73			1	
5420	vH	20'04635	270	1 10 9'100	9'308	+ 19 15 31'36	0'701	74			1	Γ;
		20'05016	270	1 10 8'926	9'324	+ 19 15 29'48	0'703	74			1	
5439	vH	29'05032	300	1 3 3'399	9'422	+ 17 54 33'51	0'732	75	12'2		1	Γ; *1: 11'1
		29'05516	300	1 3 3'187	9'435	+ 17 54 30'93	0'735	75			1	
5447	vH	Nov 14'89230	360	0 53 32'458	8'612	+ 15 26 11'14	0'720	76	12'2		1	Γ; *1: 10'9
		14'89715	360	0 53 32'333	8'718	+ 15 26 9'03	0'720	76	12'4		1	*1: 11'2
5454	vH	20'93027	360	0 51 43'151	9'219	+ 14 39 38'92	0'738	77			1	Γ;
		20'95381	360	0 51 43'075	9'248	+ 14 39 36'96	0'740	77			1	
5496	vH	Dec 22'77248	720	0 57 2'257	7'406 _n	+ 12 14 37'85	0'750	78			1	Γ;
		22'78148	720	0 57 2'527	8'266	+ 12 14 36'93	0'750	78			1	
5169	D	(532) Jan 2'83709	360	4 46 3'017	9'179 _n	+ 11 19 52'89	0'764	79			3	Γ; very bad plate; images deformed
		2'84125	300	4 46 2'823	9'152 _n	+ 11 19 54'05	0'764	79			3	
		2'86110	380	4 46 1'896	8'994 _n	+ 11 20 0'65	0'760	79			3	
		2'86572	360	4 46 1'658	8'946 _n	+ 11 20 2'14	0'760	79			3	
5176	D	3'91417	360	4 45 16'186	8'487	+ 11 25 32'94	0'757	80			3	Γ; very bad plate; images deformed
		3'91850	360	4 45 15'987	8'610	+ 11 25 34'41	0'757	80			3	
		3'93401	405	4 45 15'295	8'882	+ 11 25 39'32	0'758	80			3	
5241	vH	12'87010	360	4 39 31'024	7'719 _n	+ 12 17 57'45	0'749	81			4	Γ; unsteady
		12'87494	360	4 39 30'857	7'781	+ 12 17 59'17	0'749	81			4	
		12'88983	360	4 39 30'365	8'608	+ 12 18 4'50	0'749	81			4	
		12'89503	360	4 39 30'192	8'721	+ 12 18 6'39	0'750	81			4	
5255	vH	19'82917	420	4 36 27'756	8'708 _n	+ 13 2 8'89	0'743	82			4	Γ; unsteady
		19'83471	420	4 36 27'638	8'582 _n	+ 13 2 10'84	0'742	82			4	
5306	vH	Mar 7'81885	480	4 50 48'036	9'306	+ 18 34 54'01	0'707	83	11'1		4	Γ; clouds
		7'83461	510	4 50 48'877	9'367	+ 18 35 0'35	0'716	83	11'3		4	[the edges of the pl
5311	D	19'83236	385	5 2 39'140	9'439	+ 19 52 39'05	0'718	84			3	Γ; clouds; no good plate; stars
5314	vH	28'82045	375	5 13 9'143	9'456	+ 20 46 28'47	0'714	85	10'4		4	Γ; *3: 9'4
		28'82582	375	5 13 9'599	9'469	+ 20 46 30'49	0'718	85			4	
5321	vH	Apr 6'81687	420	5 24 53'540	9'488	+ 21 35 49'46	0'718	86	12'4		4	Γ; *1: 10'6; *3: 11'8; u!
		6'82241	420	5 24 53'992	9'499	+ 21 35 51'12	0'722	86	12'3		4	*1: 10'8; *3: 12'0

TABLE 2, 1940.

B. D.	α_{1950-0}	δ_{1950-0}	dependences	B. D.	α_{1950-0}	δ_{1950-0}	dependences
1 + 17'2392	^{h m s} 11 41 13'85	^{° ' "} 16 35 57'8	'0835 '0835	3 + 22'2354	^{h m s} 11 21 55'56	^{° ' "} 22 3 14'9	'1439 '1442 '1445 '14
+ 16'2290	11 42 47'41	16 0 22'8	'1972 '1968	+ 23'2349	11 23 31'70	22 58 58'3	'4898 '4901 '4902 '45
+ 17'2397	11 44 25'69	16 29 17'3	'7192 '7197	+ 22'2362	11 24 25'86	22 7 59'0	'3663 '3657 '3653 '3:
2 + 20'2641	11 38 58'87	19 48 29'7	'4218 '4211 '4202				'1495
+ 20'2640	11 38 58'35	20 2 22'5	'1427 '1437 '1451				'4924
+ 20'2644	11 42 26'49	19 46 39'7	'4354 '4351 '4347				'3581

TABLE 2, 1940 (continued).

B. D.	$\alpha_{1950.0}$	$\delta_{1950.0}$	dependences	B. D.	$\alpha_{1950.0}$	$\delta_{1950.0}$	dependences
4 + 23'2313 + 24'2327 + 24'2332	h m s 11 7 41'00 11 9 53'32 11 11 26'44	o ' " 22 58 25'3 23 46 39'0 24 6 55'5	'3589 '4561 '1851	19 + 5'274 + 4'340 + 5'278	h m s 1 57 20'91 1 58 31'15 2 0 44'69	o ' " 5 47 39'1 5 5 44'2 5 59 57'5	'6834 '6830 '2003 '2001 '1163 '1169
5 + 23'2301 + 24'2308 + 23'2303	11 0 18'80 11 0 38'65 11 1 16'39	23 23 29'0 23 38 45'3 23 25 5'2	'4344 '4358 '4400 '4408 '2917 '2918 '2909 '2909 '2739 '2724 '2691 '2683 '4442 '4448 '2903 '2901 '2655 '2651	20 + 5'272 + 4'343 + 5'278	1 56 49'26 2 0 13'02 2 0 44'69	6 13 52'4 5 6 7'8 5 59 57'5	'4375 '4366 '4359 '3166 '3157 '3149 '2458 '2478 '2492
6 + 22'2291 + 23'2288 + 23'2297	10 55 55'92 10 57 8'37 10 59 22'68	22 8 13'5 23 12 57'7 22 51 54'0	'1847 '1848 '6163 '6163 '1990 '1989	21 + 17'2053 + 17'2057 + 17'2065	9 14 51'36 9 15 49'50 9 18 39'22	16 54 55'6 17 26 59'8 16 48 47'0	'1073 '1068 '1043 '1034 '4737 '4736 '4732 '4730 '4189 '4195 '4225 '4236
7 + 22'2295 + 21'2269 + 21'2271	10 56 11'08 10 57 34'12 10 59 2'97	21 56 22'3 21 4 1'9 21 6 6'0	'5552 '5551 '5543 '5542 '1252 '1254 '1264 '1264 '3196 '3196 '3193 '3194 '5530 '5528 '1584 '1581 '1277 '1277 '4453 '4456 '3193 '3194 '3963 '3963	22 + 16'1975 + 16'1984 + 17'2097	9 26 57'04 9 28 54'07 9 30 13'97	16 33 56'1 15 59 29'2 16 42 58'8	'3637 '3632 '1757 '1759 '4606 '4609
8 - 12'1760 - 11'1772 - 12'1790	7 1 31'87 7 2 18'98 7 4 41'22	12 29 19'4 12 2 58'4 12 9 24'0	'4772 '4760 '2118 '2132 '3110 '3109	23 + 16'2064 + 15'2156 + 15'2164	9 59 20'10 9 59 45'96 10 2 21'03	15 36 15'3 14 48 23'6 15 22 44'9	'2476 '2473 '2470 '3619 '3619 '3618 '3904 '3908 '3912
9 - 5'2061 - 5'2069 - 5'2077	7 15 47'80 7 17 15'75 7 18 36'83	5 39 9'4 5 11 1'2 5 25 48'7	'2302 '2279 '4195 '4218 '3503 '3503	24 + 15'2179 + 16'2106 + 15'2185	10 11 22'79 10 14 33'34 10 14 43'23	15 30 15'6 15 46 8'5 15 15 53'2	'2905 '2903 '2426 '2429 '4668 '4668
10 - 3'1875 - 3'1886 - 3'1892	7 20 49'10 7 22 23'34 7 23 20'28	3 54 51'1 4 7 54'4 3 55 13'5	'4974 '4976 '3096 '3079 '1930 '1945	25 + 16'2104 + 16'2106 + 15'2185	10 13 18'25 10 14 33'34 10 14 43'23	15 38 47'6 15 46 8'5 15 15 53'2	'4872 '4870 '4842 '4837 '1082 '1086 '1117 '1123 '4046 '4044 '4041 '4039
11 - 0'1757 - 1'1765 - 0'1766	7 31 43'90 7 31 47'43 7 34 40'33	0 53 57'0 1 12 30'6 1 5 5'1	'2097 '2106 '2178 '2203 '4081 '4066 '3950 '3912 '3822 '3827 '3871 '3885	26 + 11'2058 + 11'2060 + 11'2064	9 31 0'24 9 32 22'67 9 33 48'07	10 41 4'2 11 22 44'4 11 4 17'1	'3381 '3382 '3215 '3238 '3404 '3380
12 + 1'1909 + 2'1803 + 1'1925	7 45 41'52 7 48 5'14 7 48 20'93	1 31 12'6 1 55 48'1 1 7 58'3	'4964 '4958 '4477 '4483 '0559 '0559	27 + 19'2109 + 19'2110 + 19'2114	8 47 24'13 8 47 54'68 8 49 29'11	19 27 48'1 19 1 13'3 19 32 22'4	'6180 '6215 '6226 '6266 '2729 '2706 '2700 '2675 '1091 '1079 '1074 '1059
13 + 4'1928 + 5'1906 + 5'1915	8 8 49'11 8 10 34'63 8 12 5'82	4 31 49'6 5 9 12'3 4 44 24'9	'1431 '1421 '6961 '6964 '1608 '1615	28 + 21'1909 + 21'1912 + 21'1914	8 43 27'79 8 45 1'44 8 45 31'82	20 48 3'3 21 37 40'1 20 52 57'9	'3992 '3989 '1160 '1162 '4848 '4849
14 + 5'2158 + 5'2163 + 5'2169	9 17 13'88 9 19 24'30 9 21 2'56	5 25 43'2 5 1 16'1 5 26 5'3	'2340 '2313 '3480 '3496 '4180 '4192	29 + 22'1996 + 21'1917 + 21'1926	8 45 50'23 8 46 41'94 8 48 30'01	21 44 41'0 20 41 41'4 21 16 8'6	'3623 '3622 '3617 '361 '3334 '3331 '3324 '332 '3042 '3047 '3059 '306
15 + 1'2406 + 1'2408 + 1'2409	10 6 6'83 10 6 31'84 10 7 24'46	1 24 18'7 0 37 40'2 0 44 57'7	'1177 '1173 '3173 '3163 '5651 '5664	30 + 21'1966 + 22'2049 + 21'1971	9 1 9'39 9 2 43'49 9 4 14'27	21 8 52'3 21 45 59'5 20 48 1'7	'3940 '3926 '2575 '2579 '3485 '3495
16 - 0'2328 - 0'2333 - 0'2337	10 19 30'22 10 21 1'83 10 22 12'85	0 29 54'8 0 53 44'3 0 32 9'8	'4274 '4273 '2716 '2716 '3010 '3011	31 + 21'1968 + 21'1971 + 21'1982	9 3 1'45 9 4 14'27 9 7 23'72	21 15 19'9 20 48 1'7 21 11 3'1	'2987 '2976 '2294 '2296 '4719 '4728
17 + 3'251 + 4'324 + 3'260	1 49 6'07 1 50 0'43 1 51 39'00	3 56 2'0 5 1 11'0 4 20 29'5	'3125 '3120 '2576 '2577 '4299 '4303	32 + 17'1850 + 17'1859 + 18'1958	8 24 55'57 8 27 38'88 8 28 17'73	17 36 46'3 17 13 34'1 18 6 26'0	'5492 '5481 '1897 '1906 '2611 '2613
18 + 4'320 + 4'324 + 3'260	1 48 51'68 1 50 0'43 1 51 39'00	4 42 8'8 5 1 11'0 4 20 29'5	'5676 '5648 '2293 '2267 '6617 '6619	33 + 17'1903 + 16'1801 + 16'1802	8 38 5'74 8 39 52'75 8 40 5'44	16 40 41'9 16 8 4'7 16 37 49'3	'4140 '4128 '4239 '4243 '1620 '1630
				34 + 13'2044 + 12'1981 + 13'2050	9 4 55'55 9 7 34'71 9 8 4'51	12 55 43'7 12 8 49'9 12 45 36'6	'1723 '1721 '1717 '1563 '1564 '1567 '6713 '6715 '6716

TABLE 2, 1940 (continued).

B. D.	α_{1950-0}	δ_{1950-0}	dependences	B. D.	α_{1950-0}	δ_{1950-0}	dependences
35 + 11 ^o 1990	h m s 9 7 7 ^o 63	° ' " 10 41 45 ^o 6	'2344 '2346 '2348 '3286	51 — 3 ^o 2726	h m s 9 34 14 ^o 71	° ' " 3 40 59 ^o 9	'1998 '2018 '2077
+ 10 ^o 1956	9 10 41 ^o 96	10 30 51 ^o 2	'4349 '4348 '4348 '4281	— 3 ^o 2734	9 35 52 ^o 87	3 50 9 ^o 6	'5674 '5650 '5580
+ 11 ^o 1998	9 10 56 ^o 79	11 21 11 ^o 7	'3307 '3305 '3304 '2433	— 2 ^o 2947	9 36 44 ^o 18	3 7 42 ^o 8	'2328 '2331 '2343
			'3286 '3288	52 — 0 ^o 2197	9 24 0 ^o 77	0 42 48 ^o 3	'1998
			'4282 '4281	— 0 ^o 2201	9 26 29 ^o 99	1 2 15 ^o 5	'5933
			'2432 '2431	— 0 ^o 2208	9 28 38 ^o 12	0 31 35 ^o 0	'2069
36 + 18 ^o 1517	7 8 10 ^o 29	18 22 59 ^o 8	'4019 '3994	53 + 1 ^o 2300	9 23 46 ^o 23	0 49 49 ^o 1	'1416 '1422
+ 18 ^o 1524	7 9 25 ^o 05	18 44 19 ^o 1	'1401 '1402	+ 0 ^o 2520	9 25 3 ^o 62	0 6 57 ^o 3	'2189 '2176
+ 18 ^o 1532	7 11 20 ^o 02	18 6 57 ^o 8	'4580 '4604	+ 0 ^o 2522	9 26 18 ^o 95	0 2 0 ^o 1	'6396 '6402
37 + 18 ^o 1528	7 10 51 ^o 88	18 1 11 ^o 8	'4047 '4012	54 + 2 ^o 2217	9 30 6 ^o 55	2 5 13 ^o 5	'4329 '4321
+ 18 ^o 1538	7 11 55 ^o 80	18 38 57 ^o 4	'1700 '1687	+ 1 ^o 2329	9 33 22 ^o 07	1 29 30 ^o 2	'1950 '1944
+ 18 ^o 1540	7 12 19 ^o 91	18 5 52 ^o 8	'4253 '4301	+ 2 ^o 2227	9 34 51 ^o 03	2 6 15 ^o 9	'3721 '3735
38 + 17 ^o 1575	7 23 25 ^o 11	16 55 33 ^o 1	'4563 '4552	55 + 5 ^o 366	2 33 23 ^o 44	6 12 58 ^o 1	'2060 '2041
+ 16 ^o 1486	7 26 12 ^o 74	16 17 0 ^o 2	'2528 '2536	+ 5 ^o 372	2 35 49 ^o 59	6 4 14 ^o 5	'0992 '1013
+ 17 ^o 1586	7 26 37 ^o 95	16 59 16 ^o 6	'2909 '2912	+ 5 ^o 373	2 36 20 ^o 04	5 30 55 ^o 1	'6948 '6946
39 + 16 ^o 1493	7 27 40 ^o 10	16 8 43 ^o 8	'1810 '1800	56 + 3 ^o 407	2 53 37 ^o 27	3 50 51 ^o 4	'3094 '3099
+ 16 ^o 1502	7 29 12 ^o 66	16 19 35 ^o 3	'4674 '4670	+ 3 ^o 410	2 54 27 ^o 21	4 17 58 ^o 0	'9307 '9294
+ 15 ^o 1593	7 29 52 ^o 06	15 46 52 ^o 8	'3516 '3530	+ 3 ^o 412	2 55 14 ^o 61	3 50 24 ^o 4	'3787 '3805
40 + 14 ^o 1689	7 29 1 ^o 51	14 6 38 ^o 5	'2996 '3004	57 + 3 ^o 410	2 54 27 ^o 21	4 17 58 ^o 0	'3839
+ 15 ^o 1591	7 29 30 ^o 14	15 23 25 ^o 0	'3229 '3227	+ 3 ^o 414	2 55 36 ^o 01	3 37 50 ^o 0	'3060
+ 14 ^o 1699	7 31 36 ^o 38	14 12 39 ^o 9	'3775 '3769	+ 2 ^o 464	2 59 6 ^o 35	3 21 9 ^o 3	'3101
41 + 0 ^o 39	0 18 23 ^o 90	0 54 57 ^o 6	'3318	58 + 0 ^o 481	2 52 53 ^o 31	1 9 14 ^o 5	'5995 '6005
— 0 ^o 55	0 20 48 ^o 31	0 10 27 ^o 9	'2810	+ 1 ^o 512	2 52 56 ^o 34	1 49 1 ^o 1	'0808 '0805
+ 0 ^o 52	0 22 52 ^o 31	1 5 32 ^o 9	'3872	+ 1 ^o 517	2 56 2 ^o 00	1 55 19 ^o 2	'3198 '3190
42 — 1 ^o 2677	12 27 45 ^o 41	1 39 56 ^o 9	'4031 '4010	59 + 1 ^o 510	2 52 16 ^o 56	1 29 31 ^o 6	'4787 '4804
— 1 ^o 2688	12 30 28 ^o 80	2 0 51 ^o 4	'2548 '2569	— 0 ^o 454	2 53 22 ^o 35	0 18 52 ^o 0	'2710 '2717
— 0 ^o 2590	12 31 49 ^o 50	1 7 57 ^o 9	'3421 '3422	+ 1 ^o 514	2 54 2 ^o 67	1 33 6 ^o 8	'2503 '2480
43 — 1 ^o 2683	12 28 35 ^o 95	1 47 26 ^o 5	'3626	60 + 0 ^o 466	2 46 39 ^o 54	0 28 1 ^o 3	'2368 '2359
— 0 ^o 2590	12 31 49 ^o 50	1 7 57 ^o 9	'2872	— 0 ^o 436	2 46 49 ^o 89	0 13 42 ^o 2	'2982 '3013
— 1 ^o 2698	12 33 14 ^o 32	2 4 4 ^o 7	'3502	— 0 ^o 443	2 48 55 ^o 80	0 7 9 ^o 9	'4650 '4627
44 — 6 ^o 3185	10 30 46 ^o 49	6 57 23 ^o 5	'2741 '2742	61 — 1 ^o 379	2 38 51 ^o 94	1 20 55 ^o 4	'1807 '1832
— 7 ^o 3061	10 32 19 ^o 47	7 39 49 ^o 2	'3040 '3055	— 1 ^o 385	2 40 47 ^o 52	1 4 14 ^o 2	'5741 '5715
— 7 ^o 3070	10 34 23 ^o 19	7 31 24 ^o 5	'4219 '4203	— 1 ^o 387	2 41 59 ^o 24	1 15 36 ^o 5	'2452 '2453
45 + 0 ^o 2569	9 48 46 ^o 27	0 32 41 ^o 2	'4033 '4046	62 — 2 ^o 433	2 30 9 ^o 05	1 58 33 ^o 2	'3499 '3507
+ 0 ^o 2574	9 49 41 ^o 97	0 3 16 ^o 2	'4177 '4162	— 3 ^o 406	2 32 51 ^o 40	2 40 41 ^o 5	'2313 '2322
+ 1 ^o 2379	9 51 52 ^o 02	0 41 55 ^o 2	'1791 '1792	— 2 ^o 451	2 34 25 ^o 66	2 3 15 ^o 1	'4188 '4170
46 + 2 ^o 2255	9 47 56 ^o 36	2 3 44 ^o 2	'0979 '0984	63 — 3 ^o 347	2 15 22 ^o 20	3 0 53 ^o 3	'2150 '2156
+ 1 ^o 2370	9 48 23 ^o 35	1 2 27 ^o 1	'2230 '2222	— 4 ^o 375	2 16 8 ^o 49	3 42 50 ^o 0	'3195 '3201
+ 1 ^o 2373	9 50 30 ^o 33	1 22 40 ^o 7	'6791 '6794	— 3 ^o 363	2 19 5 ^o 49	3 11 19 ^o 6	'4654 '4642
47 + 1 ^o 2049	8 13 13 ^o 96	0 52 29 ^o 0	'2128 '2106	64 — 3 ^o 340	2 11 10 ^o 38	3 15 52 ^o 2	'1879 '1897
+ 0 ^o 2245	8 14 22 ^o 44	0 10 38 ^o 2	'4650 '4656	— 4 ^o 364	2 13 6 ^o 28	3 38 11 ^o 4	'6762 '6752
+ 1 ^o 2059	8 15 55 ^o 32	0 52 10 ^o 8	'3222 '3237	— 3 ^o 343	2 13 21 ^o 33	2 44 34 ^o 5	'1359 '1350
48 — 2 ^o 2632	8 34 31 ^o 13	2 49 29 ^o 4	'2679 '2678	65 — 2 ^o 356	2 2 31 ^o 74	2 13 13 ^o 9	'3086 '3078
— 1 ^o 2092	8 35 40 ^o 76	1 41 37 ^o 3	'4657 '4656	— 1 ^o 289	2 3 3 ^o 85	1 10 54 ^o 2	'1806 '1812
— 2 ^o 2647	8 36 35 ^o 16	2 51 27 ^o 8	'2664 '2666	— 2 ^o 362	2 4 23 ^o 72	2 3 39 ^o 7	'5108 '5110
49 — 2 ^o 2604	8 29 50 ^o 01	2 27 55 ^o 3	'3475	66 — 2 ^o 356	2 2 31 ^o 74	2 13 13 ^o 9	'5431 '5423
— 1 ^o 2078	8 32 8 ^o 09	1 59 6 ^o 2	'3022	— 1 ^o 289	2 3 3 ^o 85	1 10 54 ^o 2	'2030 '2036
— 2 ^o 2619	8 32 24 ^o 96	2 49 20 ^o 7	'3503	— 1 ^o 299	2 7 15 ^o 15	1 12 12 ^o 9	'2539 '2541
50 — 6 ^o 3117	10 12 50 ^o 96	6 56 3 ^o 2	'3326 '3336	67 + 20 ^o 258	1 34 49 ^o 87	21 25 25 ^o 9	'4766 '4758
— 7 ^o 3002	10 15 29 ^o 81	7 37 50 ^o 9	'5641 '5656	+ 21 ^o 230	1 38 28 ^o 19	22 13 0 ^o 8	'3972 '3979
— 6 ^o 3125	10 16 6 ^o 71	7 15 2 ^o 1	'1033 '1008	+ 20 ^o 270	1 39 55 ^o 03	21 14 35 ^o 5	'1262 '1263

TABLE 2, 1940 (continued).

B. D.	$\alpha_{1950.0}$	$\delta_{1950.0}$	dependences	B. D.	$\alpha_{1950.0}$	$\delta_{1950.0}$	dependences
68 + 21'224 + 21'230 + 20'270	^{h m s} I 36 11'61 I 38 28'19 I 39 55'03	^{° ' "} 21 39 54'3 22 13 0'8 21 14 35'5	'5665 '5654 '5634 '5626 '3137 '3149 '3164 '3174 '1198 '1197 '1202 '1200	78 + 11'120 + 12'119 + 11'132	^{h m s} 0 54 44'40 0 55 16'98 0 58 24'44	^{° ' "} 12 9 36'0 13 25 33'2 12 8 9'9	'3076 '3065 '0776 '0774 '6148 '6161
69 + 22'257 + 23'229 + 22'266	I 38 21'46 I 41 58'46 I 42 49'60	22 46 22'8 23 36 6'7 22 48 31'7	'5029 '5033 '1339 '1340 '3631 '3627	79 + 11'649 + 11'655 + 10'654	4 44 9'84 4 46 22'21 4 48 25'71	11 11 16'3 11 45 56'2 10 59 3'5	'3927 '3933 '3962 '3970 '3421 '3424 '3440 '3443 '2652 '2643 '2598 '2588
70 + 23'221 + 22'257 + 22'263	I 37 14'02 I 38 21'46 I 40 21'58	23 29 31'0 22 46 22'8 22 44 43'6	'1018 '1015 '1012 '5846 '5867 '5885 '3136 '3118 '3102	80 + 11'649 + 11'651 + 10'649	4 44 9'84 4 44 50'40 4 46 40'81	11 11 16'3 11 41 54'6 10 54 9'2	'1087 '1099 '1144 '6184 '6184 '6185 '2730 '2717 '2670
71 + 20'222 + 20'231 + 21'200	I 24 52'99 I 27 10'07 I 27 22'08	21 26 58'4 21 16 38'8 22 5 23'4	'1572 '1586 '3531 '3526 '4897 '4888	81 + 12'628 + 11'643 + 12'633	4 38 20'90 4 40 0'97 4 40 34'18	12 29 30'8 12 7 27'8 12 21 11'7	'3607 '3623 '3669 '3685 '4547 '4535 '4499 '4486 '1846 '1842 '1832 '1829
72 + 20'218 + 20'227 + 21'199	I 24 3'50 I 26 19'73 I 26 52'27	21 27 40'4 21 20 50'9 21 40 58'9	'5108 '5122 '5149 '5163 '1753 '1761 '1774 '1781 '3139 '3117 '3077 '3057	82 + 13'699 + 12'620 + 12'622	4 34 35'77 4 36 21'05 4 36 46'43	13 49 17'9 12 54 27'9 13 1 50'1	'0672 '0680 '3906 '3913 '5422 '5407
73 + 20'197 + 20'199 + 19'224	I 16 46'19 I 17 34'14 I 20 0'16	20 36 24'8 20 39 4'1 19 59 50'6	'3692 '3768 '4071 '3988 '2237 '2243	83 + 18'743 + 18'747 + 18'754	4 48 26'38 4 50 39'77 4 52 14'77	18 45 26'0 18 59 29'8 18 21 47'8	'3192 '3127 '1467 '1536 '5341 '5338
74 + 19'191 + 19'202 + 18'163	I 7 23'42 I 11 20'62 I 11 43'72	19 34 16'7 19 59 15'5 18 51 46'0	'3528 '3535 '1292 '1282 '5181 '5183	84 + 19'839 + 19'847 + 20'885	4 58 56'21 5 2 35'21 5 4 51'01	19 53 41'7 19 44 24'2 20 21 17'0	'1037 '6994 '1968
75 + 17'148 + 17'152 + 17'158	I 0 50'94 I 3 4'33 I 5 4'30	18 20 23'4 17 39 4'3 17 54 44'2	'2655 '2653 '4477 '4500 '2868 '2847	85 + 21'796 + 21'800 + 20'910	5 11 6'66 5 12 10'75 5 14 39'57	21 10 0'0 21 25 15'2 20 22 10'1	'3340 '3287 '1316 '1362 '5344 '5352
76 + 15'135 + 14'142 + 15'140	0 52 38'19 0 53 49'48 0 54 45'71	15 56 27'3 14 53 41'2 15 53 17'0	'3657 '3664 '4742 '4749 '1601 '1588	86 + 21'839 + 21'852 + 21'855	5 22 53'96 5 25 19'69 5 25 40'90	21 44 34'6 21 24 15'2 21 39 2'7	'2445 '2421 '3102 '3074 '4454 '4505
77 + 14'123 + 13'122 + 14'141	0 48 37'86 0 50 32'07 0 53 48'01	15 17 17'2 14 12 5'2 14 44 24'1	'1881 '1879 '3396 '3404 '4723 '4718				

TABLE I, 1941.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	Remarks
5508	vH	(3) Jan	^s 60	^{h m s} 10 22 27'789	8'549	— 0 41 13'28	0'844	I	10'I		I	Γ; *1: 10'7; *3: 10'5
				10 22 27'785	8'586	— 0 41 13'30	0'844	I			I	
				10 22 27'760	8'708	— 0 41 13'07	0'844	I			2	
				10 22 27'753	8'734	— 0 41 13'02	0'844	I			2	
5509	vH		180	10 22 27'690	8'952	— 0 41 12'00	0'844	I			2	e;
			180	10 22 27'663	8'981	— 0 41 11'69	0'844	I			2	
5521	vH		75	10 11 31'511	8'990	+ 1 18 59'11	0'832	2	10'I		I	Γ;
			75	10 11 31'449	9'003	+ 1 18 59'79	0'832	2			I	
5510	vH	(4) Jan	180	10 15 7'086	9'134	+ 16 15 59'01	0'718	3			2	e;
			180	10 15 7'049	9'155	+ 16 15 59'78	0'719	3			2	
5511	vH		60	10 15 6'962	9'237	+ 16 16 4'04	0'723	3			2	Γ;
			61	10 15 6'965	9'244	+ 16 16 4'31	0'724	3			2	
			60	10 15 6'888	9'280	+ 16 16 6'77	0'727	3			I	
			60	10 15 6'892	9'286	+ 16 16 6'84	0'727	3			I	
5522	vH		60	10 2 20'720	9'201	+ 19 23 31'14	0'689	4			2	Γ;
			60	10 2 20'671	9'207	+ 19 23 31'76	0'689	4			2	
			60	10 2 20'398	9'237	+ 19 23 34'36	0'692	4			I	
			60	10 2 20'337	9'242	+ 19 23 34'77	0'692	4			I	

TABLE I, 1941 (continued).

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	Remarks
5525	vH	(6)	Jan 30°18372	540 ^s	15 2 17°040	9°196 _n	— 2 42 55"33	0°854	5	12°1	I	Γ; *2: 11°0; *3: 11°0
		30°18960	420	15 2 17°354	9°162 _n	— 2 42 54"73	0°854	5		I		
5507	vH	(7)	Jan 3°13978	75	9 3 4°307	9°129	+ 10 23 41'35	0°770	6	9°1	I	Γ; *2: 9°7; *3: 10°1 *2: 9°7; *3: 10°3
		3°14116	75	9 3 4°247	9°138	+ 10 23 41'29	0°770	6	9°2	I		
5505	vH	(12)	Jan 3°10974	330	6 56 12°110	9°398	+ 13 13 37'73	0°765	7	10°9	I	Γ; *1: 9°5; *3: 10°4
		3°11424	330	6 56 11°818	9°411	+ 13 13 37'58	0°767	7		I		
5504	vH	(25)	Jan 3°08775	600	6 59 12°797	9°305	— 7 28 3'07	0°872	8		I	Γ;
		3°09572	600	6 59 12°296	9°336	— 7 28 3'76	0°867	8		I		
5512	vH	(27)	Jan 3°22730	360	12 45 1°914	8°176 _n	— 3 0 17'74	0°856	9		I	Γ;
5523	vH		3°23249	360	12 45 2°247	7°506 _n	— 3 0 19'36	0°856	9		I	Γ;
			30°14216	480	13 5 32°294	8°863 _n	— 4 41 46'95	0°865	10		I	
			30°14892	510	13 5 32°455	8°762 _n	— 4 41 47'67	0°865	10	12°0	I	
5506	vH	(185)	Jan 3°12549	300	8 23 34°786	9°203	— 1 39 30'35	0°848	11	12°8	I	Γ; *1: 10°5; *3: 11°0
		3°12965	300	8 23 34°588	9°225	— 1 39 29'19	0°848	11		I		
5500	vH	(287)	Jan 1°78160	660	2 6 44°295	8°469 _n	— 0 36 20'62	0°844	12		I	Γ;
		1°79060	660	2 6 44°482	7°956 _n	— 0 36 17'13	0°844	12		I		
5499	vH	(409)	Jan 1°75529	660	1 3 17°201	8°034	+ 12 5 3'78	0°751	13		I	Γ; images of planet deformed *1: 9°6
		1°76429	660	1 3 17°572	8°501	+ 12 5 3'64	0°751	13	11°1	I		
5524	vH	(532)	Jan 30°16380	330	14 28 1°676	9°176 _n	+ 5 19 9'76	0°808	14	11°4	I	Γ;
		30°16848	360	14 28 2°008	9°146 _n	+ 5 19 10'35	0°808	14		I		

TABLE 2, 1941.

B. D.	α ₁₉₅₀₋₀	δ ₁₉₅₀₋₀	dependences	B. D.	α ₁₉₅₀₋₀	δ ₁₉₅₀₋₀	dependences		
1 —	0°2333	10 21 1°83	0 53 44'3	4276 4276 4276 4276	7 +	13°1494	6 55 25'15	13 8 31'9	3316 3356
	+ 0°2650	10 22 17'90	0 8 49'5	2277 2277 2278 2278	+ 13°1502	6 56 18'27	13 46 19'8		3235 3221
	— 0°2342	10 24 20'92	0 47 5'5	3448 3447 3446 3445	+ 12°1373	6 56 51'45	12 47 51'0		3449 3424
			4277 4277	8 —	7°1683	6 57 43'38	7 43 11'4		2669 2703
			2283 2284	— 6°1889	6 59 25'10	6 58 36'9			3318 3316
			3440 3438	— 7°1701	7 0 18'65	7 42 18'4			4013 3982
2 +	1°2413	10 10 0°00	1 8 24'6	2905 2909	9 —	2°3573	12 43 20'43	2 45 29'8	6354 6347
	+ 2°2307	10 11 50'63	1 42 55'7	3509 3512	— 2°3580	12 46 35'88	3 25 36'9		0423 0407
	+ 1°2418	10 12 26'95	1 4 7°0	3585 3579	— 2°3587	12 48 9'74	3 26 6'9		3223 3246
3 +	16°2105	10 13 54'99	16 16 51'3	4461 4460 4447 4446	10 —	4°3418	13 3 29'00	4 52 0'1	2940 2944
	+ 17°2195	10 14 30'20	16 42 51'1	1991 1994 2015 2017	— 4°3419	13 3 50'84	4 34 41'7		2857 2847
	+ 16°2110	10 16 58'19	15 59 46'1	3549 3546 3537 3537	— 4°3432	13 8 7'51	4 40 33'2		4203 4209
			4441 4440	11 —	1°2032	8 22 6'84	1 45 58'5		3108 3122
			2029 2029	— 0°1991	8 23 58'67	1 15 11'3			1978 1985
			3531 3531	— 1°2038	8 24 20'79	1 45 12'2			4914 4893
4 +	19°2297	10 1 9'62	19 11 43'1	2892 2894 2909 2912	12 —	0°320	2 4 41'34	0 26 33'8	3550 3569
	+ 20°2430	10 2 26'61	19 40 55'5	5247 5249 5252 5252	— 1°293	2 5 2'87	0 50 39'1		2462 2435
	+ 19°2299	10 3 54'46	18 52 43'6	1861 1857 1839 1836	— 1°301	2 9 36'37	0 36 12'6		3988 3996
5 —	2°3937	15 0 52'65	2 58 23'3	3582 3565	13 +	11°139	1 0 7'07	11 40 20'8	2394 2380
	— 1°3012	15 2 25'78	2 20 5'2	4056 4059	+ 12°135	1 3 55'67	12 41 15'0		3483 3480
	— 2°3944	15 4 10'03	2 58 40'1	2362 2376	+ 11°144	1 4 35'23	11 48 47'7		4124 4140
6 +	10°1933	9 0 40'71	10 30 6'8	3430 3433	14 +	5°2882	14 26 9'46	5 26 52'2	3966 3954
	+ 10°1937	9 4 14'06	10 4 29'6	4266 4265	+ 5°2886	14 28 15'14	4 59 37'2		3397 3397
	Lpz I 3657	9 4 28'87	10 49 36'0	2303 2302	+ 5°2889	14 30 33'17	5 32 43'0		2636 2649