

BULLETIN

DE
L'OBSERVATOIRE ASTRONOMIQUE DE BEOGRAD

ANNÉE 1963 — VOLUME XXV

2

BEOGRAD 1963

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L'OBSERVATOIRE ASTRONOMIQUE DE BEOGRAD

ANNÉE 1963

Nº 2

VOLUME XXV

OBSERVATIONS A LA LUNETTE ZENITHALE
/DE 110 MM/ DU SERVICE DE LATITUDE DE L'OBSERVATOIRE PAR
G.TELEKI /GT/, R.GRUJIC /RG/ ET M.DJOKIC /MD/
 $\varphi = 44^{\circ} 48' +$
NOUVEAU PROGRAMME

DATE 1960		MOMENT MOY. DE L'OBS. DU GROUPE	OBS.	TEMP. MOY.			B_0 mm	GR.	ψ SOUSGROUPE		VALEUR MOY. DI- URNE
				T_z	T_i	T_v			a	b	
22	I	1960,059	GT	- 5 ^o 2	- 5 ^o 6	- 5 ^o 2	749.8	II	10"419	10"512	
		,059	GT	- 6.4	- 7.1	- 6.2	749.6	III	10.505	10.272	10.427
1	II	,086	GT	- 9.2	- 9.6	- 9.3	752.2	II	10.407	10.342	-
		,087	GT	-11.4	-11.8	-11.4	752.4	III	10.629	10.522	10.475
29	II	,163	GT	7.6	7.0	7.2	737.4	III	10.595	10.450	10.522
9	III	,188	MD	- 4.5	5.0	- 4.1	739.9	III	10.249	-	10.249
22	III	,223	MD	5.0	3.6	3.8	744.7	III	-	10.135	
		,224	MD	2.6	1.0	1.6	744.4	IV	10.484	10.460	10.360
6	IV	,264	MD	6.3	5.4	6.0	745.3	III	-	10.161	10.161
8		,270	GT	15.8	14.4	15.2	740.1	III	10.295	10.215	10.255
13	V	,366	GT	14.2	13.0	13.4	739.8	IV	-	10.393	10.393
14		,369	RG	10.0	9.5	10.0	741.9	V	10.506	10.341	10.424
15		,371	RG	14.3	13.8	13.2	742.9	IV	10.368	10.259	10.314
21		,387	RG	16.7	18.1	15.8	739.2	IV	10.203	-	
		,388	RG	15.2	15.1	15.6	739.4	V	10.139	-	10.171
26		,402	RG	10.7	10.9	10.8	740.1	V	10.117	10.166	10.142
2	VI	,421	RG	17.0	16.7	16.8	742.4	V	-	10.361	10.361
5		,429	RG	19.3	19.3	19.4	742.8	V	10.300	10.295	10.298
14		,453	RG	21.4	21.2	21.2	738.8	V	10.087	-	10.087
18		,464	MD	15.4	15.1	15.0	744.5	V	10.348	-	10.348
19		,467	RG	18.7	17.8	18.5	740.0	V	10.135	10.119	10.127
26		,486	RG	19.2	19.7	19.8	739.6	V	10.058	9.977	10.018
27		,489	MD	14.9	17.0	15.9	738.4	V	-	9.969	9.969
5	VII	,511	GT	15.4	15.6	15.6	738.5	V	10.183	10.306	10.244
11		,527	MD	19.4	19.7	19.7	740.4	V	-	10.223	10.223
30		,580	MD	16.7	17.2	18.0	741.6	VI	10.199	10.196	10.198
4	VIII	,593	RG	17.1	16.4	16.3	740.2	VI	10.432	10.334	10.383

DATE 1960	MOMENT MOY. DE L'OBS. DU GROUPE	OBS.	TEMP. MOY.			B ₀ mm	GR.	SOUSGROUPE a b		VALEUR MOY. DI- URNE	DATE	
			T _z	T _i	T _v							
10 VIII	1960,610	MD	17.0	16.4	16.5	740.0	VI	10.281	-	10.281	28	II
11	,612	RG	19.8	19.5	19.5	736.8	VI	10.233	10.194	10.214	30	
20	,637	MD	14.2	13.8	13.7	740.4	VI	10.443	10.542	10.492	4	I
24	,648	MD	23.0	22.1	22.1	740.2	VI	10.558	10.686	10.622	5	
25	,650	RG	22.8	22.0	21.7	739.4	VI	10.433	10.404	10.418	7	
27	,656	MD	25.5	23.7	24.0	741.9	VI	10.563	-	10.563	13	
30	,664	RG	19.4	20.4	19.8	733.4	VI	10.327	10.233	10.280	14	
3 IX	,675	MD	16.9	16.6	17.0	740.2	VI	-	10.522	10.522	28	
4	,678	RG	21.6	21.6	21.6	735.2	VI	10.295	10.290		5	
	,678	RG	19.6	19.4	19.5	735.0	I	10.341	10.297	10.306	14	
14	,705	MD	11.4	11.4	11.5	741.8	VI	10.432	-	10.432	23	
16	,711	MD	16.0	16.0	16.3	739.0	VI	10.414	10.503		26	
	,711	MD	14.8	14.6	15.1	738.2	I	10.451	10.585	10.488	5	V
18	,716	RG	17.5	17.4	17.6	743.8	VI	10.233	10.358		15	
	,716	RG	15.7	15.4	15.8	744.0	I	10.490	10.465	10.386	17	
2 X	,754	RG	13.0	13.8	13.2	744.2	VI	10.498	10.463		18	
	,755	RG	12.4	11.6	12.0	744.2	I	10.483	-	10.481	19	
9	,774	RG	17.0	17.0	17.0	735.2	VI	-	10.430		24	
	,774	RG	15.5	15.1	15.5	734.8	I	10.495	-	10.462	25	
18	,798	RG	4.9	5.0	4.5	741.2	I	10.517	10.451	10.484	26	
17 XI	,880	RG	4.6	4.5	4.5	739.2	I	10.518	10.438		30	
	,881	RG	3.8	3.0	3.9	738.8	II	10.286	-	10.414	1	VII
22	,894	RG	4.8	4.1	4.5	738.5	I	10.250	10.658	10.454	3	
10 XII	,943	RG	9.6	8.8	9.1	730.7	I	-	10.370	10.370	4	
15	,957	RG	10.4	8.0	9.5	742.7	I	10.718	10.663	10.690	8	
1961											10	
3 I	1961,009	RG	7.7	6.2	6.9	734.6	II	10.468	10.448	10.458	15	
13	,036	MD	- 4.6	- 4.6	- 5.0	752.1	II	10.504	-	10.504	18	
14	,039	RG	- 4.2	- 5.8	- 5.0	748.6	II	10.507	10.340	10.424	26	
18	,050	MD	-10.3	-11.4	-10.8	754.6	II	10.728	10.799	10.764	31	
20	,056	MD	- 7.5	- 8.8	- 7.8	746.8	II	10.581	10.515	10.548	2	VIII
29	,080	MD	- 4.7	- 7.0	- 5.9	748.0	III	10.309	10.705	10.507	5	
21 II	,143	RG	3.8	2.4	2.9	752.7	III	10.359	-	10.359	9	
26	,157	MD	- 1.4	- 2.3	- 1.6	755.1	III	10.665	10.779	10.722	11	
28	,162	RG	5.2	3.8	4.2	740.5	III	10.517	-	10.517	15	
4 III	,173	RG	2.9	2.6	2.4	753.2	III	10.609	10.477	10.543	21	
7	,182	RG	8.4	7.4	7.6	748.7	III	10.437	10.330	10.384	25	
8	,184	MD	8.4	7.0	7.6	752.5	III	10.491	10.795	10.643	26	
10	,190	MD	13.0	9.4	10.7	746.9	III	10.386	10.770	10.578	29	
17	,209	MD	10.6	8.3	8.8	744.4	III	10.613	10.312	10.462	30	

VALEUR MOY. DI- URNE	DATE		MOMENT MOY. DE L'OBS. DU GROUPE	OBS.	TEMP. MOY.			B ₀ mm	GR.	Φ SOUSGROUPE		VALEUR MOY. DI- URNE
					T _z	T _i	T _i			a	b	
	28	III	1961,239	RG	2.4	3.1	1.9	741.1	III	-	10.595	10.595
10.281	30		,244	RG	11.4	10.8	11.1	738.1	III	10.486	10.465	10.476
10.214	4	IV	,258	RG	15.0	12.6	13.2	739.6	IV	10.452	10.620	10.536
10.492	5		,261	MD	17.0	15.2	15.6	740.1	IV	10.481	10.509	10.495
10.622	7		,267	MD	18.1	16.6	16.8	739.4	IV	10.786	-	10.786
10.418	13		,283	RG	14.0	12.9	13.0	740.2	IV	-	10.489	10.489
10.563	14		,286	MD	17.8	16.6	17.1	739.0	IV	10.470	-	10.470
10.280	28		,324	MD	11.8	11.9	11.6	735.2	IV	10.398	-	10.398
10.522	5	V	,343	MD	15.4	15.1	15.2	741.6	IV	10.536	10.362	10.449
	14		,368	MD	12.4	11.6	10.5	738.6	IV	10.317	-	10.317
10.306	23		,392	RG	12.6	14.0	13.4	738.0	IV	10.309	10.472	
10.432			,393	RG	12.0	12.4	13.2	738.0	V	10.375	10.319	10.369
	26		,401	MD	16.2	16.6	16.4	736.7	IV	-	10.224	10.224
10.488	5	VI	,428	MD	16.0	16.6	16.3	737.0	V	10.457	10.456	10.456
	15		,456	RG	15.0	15.6	14.6	739.7	V	10.571	10.435	10.503
10.386	17		,461	RG	17.2	18.8	17.4	742.0	V	10.342	10.494	10.418
	18		,464	MD	19.2	18.4	18.1	742.0	V	10.195	10.656	10.426
10.481	19		,466	MD	19.8	19.6	19.1	741.2	V	10.352	10.511	10.432
	24		,480	RG	20.6	21.0	21.0	743.8	V	-	10.311	10.311
10.462	25		,483	MD	22.9	21.7	21.5	740.8	V	10.521	10.663	10.592
10.484	26		,486	MD	24.9	25.0	25.0	737.7	V	10.543	-	10.543
	30		,496	MD	18.7	19.1	18.6	744.2	V	10.649	-	10.649
10.414	1	VII	,499	RG	19.8	18.6	18.7	743.8	V	-	10.694	10.694
10.454	3		,505	MD	23.2	23.3	22.9	739.0	V	10.479	10.378	10.428
10.370	4		,507	RG	25.2	25.4	25.5	735.6	V	10.410	10.415	10.412
10.690	8		,518	RG	17.3	19.7	18.4	740.2	V	10.543	-	10.543
	10		,524	MD	17.6	18.5	18.3	740.4	V	10.498	10.591	10.544
10.458	15		,538	RG	21.5	21.6	21.3	736.5	V	-	10.387	10.387
10.504	18		,546	RG	16.6	16.6	16.3	735.2	V	-	10.359	10.359
10.424	26		,568	RG	18.5	19.0	18.0	742.2	V	10.416	10.476	10.446
10.764	31		,581	RG	15.2	16.0	14.7	744.2	V	10.358	10.398	10.378
10.548	2	VIII	,587	RG	20.5	20.9	20.4	737.8	V	-	10.134	10.134
10.507	5		,595	RG	19.8	19.4	19.4	741.4	VI	10.605	10.596	10.600
10.359	9		,606	MD	26.0	25.4	24.7	741.2	VI	10.494	10.567	10.530
10.722	11		,612	MD	27.6	27.1	27.0	739.1	VI	10.390	-	10.390
10.517	15		,622	MD	16.9	16.6	16.9	738.9	VI	10.386	10.189	10.288
10.543	21		,639	MD	16.6	16.5	16.6	742.2	VI	10.315	-	10.315
10.384	25		,650	MD	16.2	16.0	16.0	744.2	VI	-	10.389	10.389
10.643	26		,653	MD	19.2	17.6	17.3	745.2	VI	10.494	10.725	10.610
10.578	29		,661	RG	18.2	19.4	18.7	742.6	VI	10.298	10.345	10.322
10.462	30		,663	MD	18.2	18.8	18.5	744.0	VI	10.505	-	10.505

DATE 1961		MOMENT MOY. DE L'OBS. DU GROUPE	OBS.	TEMP. MOY. T_z T_i T_v	B_o mm	GR.	φ SOUSGROUPE a b	VALEUR MOY. DI- URNE	DATE 1962
1	IX	1961,669	MD	18.1 18.2 18.2	746.6	VI	10.273 10.292	10.282	11
3		,674	MD	18.2 17.7 17.9	740.6	VI	- 10.324	10.324	22
5		,680	RG	23.8 23.0 23.3	738.5	VI	10.111 10.015	10.063	7
11		,696	MD	12.0 12.2 12.3	741.4	VI	10.472 10.416	10.444	
12		,699	RG	14.5 13.4 12.8	741.2	VI	10.580 -	10.580	26
13		,702	MD	18.1 17.2 17.2	742.9	VI	10.368 10.296	10.332	9
15		,707	MD	19.2 19.0 19.1	744.0	VI	10.318 10.290	10.304	20
16		,710	RG	17.4 17.2 16.6	745.1	VI	10.271 10.192	10.232	29
18		,715	MD	21.8 21.5 21.6	743.8	VI	10.308 10.119	10.214	1
19		,718	RG	22.1 21.0 20.9	740.0	VI	- 10.305	10.305	3
20		,721	MD	19.0 20.0 19.7	740.4	VI	10.351 10.441	10.396	16
22		,726	MD	16.0 16.0 15.2	744.3	VI	10.341 -	10.341	19
25		,734	MD	15.6 15.4 15.4	745.8	VI	10.280 -	10.280	20
26		,737	RG	17.0 15.6 16.0	743.8	VI	10.257 10.249	10.253	21
27		,740	MD	19.4 18.4 18.4	741.0	VI	10.108 10.297	10.202	23
29		,745	MD	21.8 20.5 20.4	742.2	VI	10.135 10.224	10.180	25
5	X	,762	RG	14.0 14.1 13.9	745.1	VI	10.259 10.302	10.280	26
6		,764	MD	13.7 13.6 13.8	741.2	VI	10.279 10.595	10.437	2
10		,776	RG	13.3 13.4 13.1	748.3	VI	10.244 10.222	10.233	3
11		,778	MD	11.8 11.5 11.6	747.4	VI	10.258 10.318	10.288	6
15		,790	MD	9.4 11.0 10.8	746.2	I	10.258 10.319	10.288	
17		,794	RG	16.4 15.6 16.0	735.9	VI	10.066 10.086		8
		,795	RG	15.8 14.9 15.5	734.0	I	10.281 10.062	10.124	12
21		,806	RG	13.5 13.4 13.4	739.0	VI	10.227 -	10.227	16
24		,814	RG	8.0 7.8 7.8	747.9	VI	10.217 10.249		17
		,814	RG	6.6 6.0 6.4	747.6	I	10.323 10.241	10.258	18
27		,822	MD	10.8 10.2 10.6	740.5	VI	10.492 10.524	10.508	21
28		,825	RG	12.6 11.8 11.7	737.1	VI	- 10.257		22
		,825	RG	11.4 10.4 10.9	737.2	I	10.200 -	10.228	29
31		,833	RG	9.2 9.6 9.2	746.7	I	10.434 -	10.434	4
1	XI	,836	MD	10.0 9.3 8.8	747.8	VI	10.202 10.047		8
		,836	MD	9.5 7.0 7.8	747.9	I	10.296 10.576	10.280	13
21		,890	RG	- 2.0 - 3.6 - 3.6	752.2	I	10.137 9.886	10.012	14
22		,893	MD	0.7 - 0.6 - 0.7	745.6	I	10.147 -	10.147	15
23		,896	RG	8.0 3.2 4.9	741.6	I	10.210 10.446	10.328	19
24		,899	MD	8.6 6.4 7.0	742.6	I	10.386 -	10.386	20
2	XII	,921	RG	11.4 9.0 9.8	735.7	I	- 10.548	10.548	22
14		,953	RG	- 7.5 - 7.4 - 7.6	745.4	I	- 9.978	9.978	23
1962									28
9	I	1962,024	RG	- 1.4 - 2.4 - 2.6	746.3	I	- 9.939		
		,025	RG	- 2.9 - 4.2 - 4.0	745.6	II	9.837 -	9.888	

VALEUR MOY. DI- URNE	DATE 1962		MOMENT MOY. DE L'OBS. DU GROUPE	OBS.	TEMP. MOY.			B _o mm	GR.	φ SOUSGROUPE		VALEUR MOY. DI- URNE
					T _z	T _i	T _v			a	b	
	11	I	1962,030	RG	3.4	2.2	2.7	738.4	I	9.596	-	
10.282			,030	RG	3.2	1.6	2.1	736.7	II	10.444	10.382	10.141
10.324	22		,065	MD	5.4	4.2	5.2	740.8	II	10.230	10.271	10.250
10.063	7	II	,104	RG	0.8	- 1.1	- 0.8	741.0	II	10.326	10.384	
10.444			,104	RG	0.2	- 1.5	- 1.0	739.4	III	10.240	10.260	10.302
10.580	26		,156	MD	1.4	0.4	0.5	739.9	II	10.341	10.321	10.331
10.332	9	III	,186	GT	- 0.8	- 1.8	- 1.3	743.6	III	10.336	-	10.336
10.304	20		,216	RG	- 3.2	- 4.1	- 3.6	739.7	III	10.376	-	10.376
10.232	29		,241	RG	7.2	- 5.6	- 6.0	735.2	III	10.412	-	10.412
10.214	1	IV	,250	RG	4.2	2.8	3.4	739.3	IV	10.415	10.328	10.372
10.305	3		,255	RG	7.8	6.3	6.8	737.8	IV	10.470	10.332	10.401
10.396	16		,291	GT	11.3	9.9	10.2	743.4	IV	10.487	10.375	10.431
10.341	19		,299	RG	12.1	11.0	11.5	742.2	IV	10.538	10.316	10.427
10.280	20		,302	GT	12.2	11.4	11.5	741.6	IV	10.706	10.471	10.588
10.253	21		,304	RG	14.0	13.2	13.5	741.3	IV	10.395	10.508	10.452
10.202	23		,310	GT	15.0	14.4	14.7	742.0	IV	10.044	-	10.044
10.180	25		,315	GT	16.8	15.8	15.9	743.8	IV	10.549	10.539	10.544
10.280	26		,318	RG	16.4	16.0	16.0	738.7	IV	10.375	10.317	10.346
10.437	2	V	,334	GT	7.0	7.4	7.2	735.3	IV	10.574	-	10.574
10.233	3		,337	RG	8.6	8.6	9.0	737.2	IV	10.193	10.314	10.254
10.288	6		,345	RG	12.8	12.7	11.8	741.2	IV	10.402	10.599	
10.288			,346	RG	11.0	10.6	11.7	741.2	V	10.601	10.372	10.494
	8		,351	RG	18.6	17.7	18.4	739.4	IV	10.478	10.229	10.354
10.124	12		,362	RG	13.6	13.3	12.8	739.7	IV	-	10.606	10.606
10.227	16		,372	GT	10.6	12.4	10.5	743.2	IV	10.610	-	10.610
	17		,376	RG	13.7	13.7	14.0	741.8	V	10.352	10.446	10.399
10.258	18		,378	GT	16.5	17.3	16.3	742.5	IV	10.382	10.367	10.374
10.508	21		,387	GT	8.7	9.0	9.2	740.3	V	10.507	10.479	10.493
	22		,389	RG	13.1	11.8	11.6	742.0	V	10.625	10.579	10.602
10.228	29		,408	RG	22.1	21.7	22.1	738.4	V	10.331	10.365	10.348
10.434	4	VI	,425	GT	3.4	8.2	8.2	745.4	V	10.410	10.476	10.443
	8		,436	GT	6.4	6.6	6.3	746.5	V	10.567	10.583	10.575
10.280	13		,449	GT	13.5	13.0	13.2	742.0	V	10.449	10.460	10.454
10.012	14		,452	RG	19.2	19.3	19.6	742.0	V	10.316	10.396	10.356
10.147	15		,455	GT	21.6	19.6	19.9	743.3	V	10.609	10.591	10.600
10.328	19		,466	RG	20.2	19.9	19.6	738.3	V	10.486	10.442	10.464
10.386	20		,468	GT	21.4	21.2	20.8	739.4	V	10.686	10.652	10.669
10.548	22		,474	GT	22.7	24.0	22.7	744.2	V	10.441	-	10.441
9.978	23		,477	RG	23.2	24.0	22.8	743.0	V	10.445	10.346	10.396
	28		,490	RG	12.5	13.6	13.4	740.2	V	10.429	10.491	10.460

DATE 1962	MOMENT MOY. DE L'OBS. DU GROUPE	OBS.	TEMP. MOY. T_z T_i T_v	B_o mm	GR.	φ SOUSGROUPE a b	VALEUR MOY. DI- URNE
1 VII	1962,499	RG	12.8 13.2 13.2	740.3	V	- 10.449	10.449
2	,501	MD	14.1 13.8 13.6	739.0	V	10.531 10.660	
	,502	MD	11.4 11.1 11.2	738.6	VI	10.627 -	10.606
9	,520	MD	17.6 18.0 17.6	740.9	V	10.401 10.486	
	,521	MD	16.0 15.7 16.1	740.6	VI	10.501 -	10.463
11	,526	MD	25.6 24.1 23.8	735.6	V	10.369 10.614	
	,526	MD	23.0 21.6 21.7	735.4	VI	10.695 10.686	10.591
14	,534	MD	18.0 20.2 18.5	736.4	V	10.462 10.503	10.482
21	,553	MD	21.8 20.8 21.2	740.5	V	- 10.585	
	,554	MD	21.6 20.4 21.2	740.3	VI	10.616 10.435	10.545
24	,562	MD	17.8 17.9 18.0	744.0	VI	10.505 10.385	10.445
26	,567	MD	23.8 23.5 23.5	741.6	VI	10.441 10.658	10.550
28	,573	MD	20.0 20.7 20.2	738.7	VI	10.538 10.657	10.598
31	,581	RG	15.2 15.6 15.4	743.5	VI	10.423 10.435	10.429
1 VIII	,584	MD	18.0 16.8 17.4	743.1	VI	10.664 10.657	10.660
2	,586	RG	20.8 20.6 20.9	739.9	VI	10.511 10.378	10.444
6	,597	MD	23.7 22.8 22.9	737.6	VI	10.622 -	10.622
9	,606	RG	20.8 21.2 20.9	741.5	VI	10.528 -	10.528
11	,611	RG	21.4 21.8 21.0	740.5	VI	10.599 -	10.599
14	,619	RG	23.8 24.2 23.6	738.6	VI	10.761 10.734	10.748
15	,622	MD	25.5 25.0 25.0	736.5	VI	10.518 10.667	10.592
19	,633	RG	16.6 16.2 15.6	741.8	VI	10.512 10.367	10.440
21	,638	RG	17.6 16.6 16.4	738.5	VI	10.540 -	10.540
24	,646	MD	22.9 22.2 22.6	741.3	VI	10.048 10.377	10.212
26	,652	RG	19.6 20.2 19.7	742.4	VI	10.381 10.455	10.418
30	,663	RG	16.1 17.2 16.2	743.2	VI	10.243 10.041	10.142
31	,666	MD	18.2 17.8 18.0	740.2	VI	10.462 10.274	10.368
2 IX	,671	RG	16.7 16.2 16.1	745.2	VI	10.440 10.248	10.344
6	,682	RG	23.4 23.2 23.5	737.3	VI	10.274 10.373	10.324
9	,690	RG	12.4 12.6 12.4	747.0	VI	10.420 10.627	10.524
10	,693	MD	15.8 15.6 15.7	744.1	VI	10.138 10.363	10.250
11	,696	RG	19.2 18.3 18.9	743.3	VI	10.280 10.287	10.284
12	,698	GT	24.4 23.2 23.6	739.8	VI	10.295 10.338	
	,696	MD	22.6 22.6 23.1	739.2	I	10.010 10.235	10.220
14	,704	GT	12.6 12.9 12.6	744.5	VI	10.465 10.161	10.313
16	,709	RG	18.9 19.6 19.2	737.5	VI	10.263 10.242	10.252
1 X	,753	MD	17.2 16.2 15.9	744.6	VI	11.094 10.962	
	,751	MD	16.0 14.4 15.2	744.6	I	10.974 10.800	10.958
2	,756	GT	16.4 16.7 16.8	744.4	VI	10.824 11.058	
	,753	RG	14.2 14.1 14.5	744.2	I	10.590 10.742	10.804

VALEUR MOY. DI- URNE	DATE 1962	MOMENT MOY. DE L'OBS. DU GROUPE	OBS.	TEMP. MOY.			B ₀ mm	GR.	φ SOUSGROUPE a b		VALEUR MOY. DI- URNE	
10.449	3	X	1962,758	MD	17.2	16.5	16.9	744.2	VI	10.674	10.894	
10.606			,756	GT	15.8	15.4	15.8	744.2	I	10.715	-	10.761
	4		,761	RG	17.1	15.4	15.2	743.9	VI	10.859	10.801	
10.463			,759	MD	14.8	13.3	14.0	743.6	I	10.763	10.778	10.800
	5		,764	GT	16.2	16.8	15.6	742.9	VI	-	10.893	10.893
10.591	7		,769	RG	13.0	14.1	13.5	746.1	VI	-	10.558	10.558
10.482	9		,775	RG	14.6	13.1	12.8	746.8	VI	10.832	10.841	
			,772	GT	12.9	10.6	11.1	746.3	I	10.642	10.552	10.717
10.545	10		,778	MD	10.8	11.0	10.9	744.4	VI	10.569	10.610	10.590
10.445	11		,778	RG	9.6	9.4	9.5	740.7	I	10.386	10.428	10.407
10.550	12		,783	GT	13.4	11.8	12.0	740.6	VI	10.686	10.711	
10.598			,781	MD	12.2	9.4	10.2	741.2	I	10.577	10.427	10.600
10.429	23		,811	GT	8.0	6.6	7.0	745.6	I	10.741	10.560	10.650
10.660	24		,814	RG	8.7	7.0	6.8	744.0	I	10.515	10.579	10.547
10.444	25		,816	GT	8.4	7.6	8.1	742.0	I	10.499	10.386	10.442
10.622	27		,822	RG	8.8	8.4	8.5	739.6	I	10.419	10.387	10.403
10.528	4	XI	,844	RG	9.5	8.9	9.5	740.1	I	10.095	10.306	10.200
10.599	4	XII	,925	GT	- 3.8	- 4.4	- 4.3	748.5	I	10.269	10.323	
10.748			,926	RG	- 4.6	- 5.8	- 5.3	748.4	II	10.253	10.302	10.287
10.592	5		,928	GT	- 2.5	- 3.5	- 3.2	747.2	I	10.481	10.198	
10.440			,929	MD	- 3.4	- 4.6	- 4.2	747.8	II	9.985	10.281	10.236
10.540	9		,939	RG	- 3.5	- 4.4	- 4.1	740.2	I	10.006	10.049	10.028
10.212	18		,964	RG	1.4	0.4	0.2	728.2	I	10.217	10.174	10.196
10.418	31		,999	MD	1.2	- 1.2	- 0.7	736.2	I	10.083	10.352	10.218

IDENTIFICATIONS

by R.S. Mitrinović

1942 JG = 1926 GS = 1936 FE₁ ≠ 1938 SU

The elements of 1942 JG /Astronomičeskij cirkuljar AN SSSR. N^o 228/6, 7/ leave residuals:

$$dM = + 2^{\circ}517$$

1926 U.T.	$\Delta \alpha$	$\Delta \delta$
Apr.13	- 0. ^m 2	- 8
Apr.15	- 0.4	- 5
May 9	- 0.3	- 5

$$dM = + 1^{\circ}394$$

1936 U.T.	$\Delta \alpha$	$\Delta \delta$
Mar.21	- 0. ^m 2	- 2
Mar.23	- 0.2	- 2

10.958

10.804

OBSERVATIONS A LA LUNETTE ZENITHALE
 /DE 110 mm/ DU SERVICE DE LATITUDE DE L'OBSERVATOIRE
 par G.Teleki /GT/, M.Djokić /MD/ et R.Grujić /RG/
 $\varphi = + 44^{\circ} 48' +$
 Ancien programme
 IV

1960

Janv.		T_i	T_e	B_o mm	20	21	22	23	24	25	26
19	MD	-3.0	-1.3	742.7	10.279	10.700	10.629	10.710	10.431	9.990	9.872
21	MD	-3.6	-3.0	744.4	-	9.691	-	-	10.378	10.731	-
23	MD	-6.6	-6.0	746.8	10.242	-	10.068	-	9.715	9.823	-

Févr.

2	MD	-11.5	-11.0	752.5	-	10.239	-	10.032	10.837	9.663	-
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V

Janv.					27	28	29	30	31	32	33
19	MD	-2.6	-1.4	742.4	9.836	9.771	9.919	10.756	10.906	10.782	10.515
21	MD	-	-	-	-	-	-	-	-	-	-
23	MD	-6.4	-6.0	746.3	9.766	10.981	9.757	10.014	-	-	-

Févr.

2	MD	-12.4	-11.5	752.0	11.249	10.511	9.948	10.675	10.786	11.260	10.259
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V

Févr.					27	28	29	30	31	32	33
9	MD	-7.0	-6.5	747.6	10.590	9.990	10.096	10.485	10.255	10.181	9.792
27	MD	0.0	-0.4	746.8	11.065	-	10.684	10.246	10.984	11.188	10.620

Mars

22	MD	+4.6	+4.5	744.4	-	-	-	-	10.149	10.155	10.125
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VI

Févr.					34	35	36	37	38	39	40
9	MD	-7.1	-6.3	746.1	10.835	-	-	-	-	-	-
27	MD	-1.0	-0.5	747.4	10.244	10.879	11.074	10.047	10.253	-	10.824

Mars

22	MD	-	-	-	-	-	-	-	-	-	-
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VI

Mars					34	35	36	37	38	39	40
23	RG	+3.2	+3.6	743.8	10.619	10.257	9.887	10.736	10.340	11.011	10.246

Avr.

5	RG	+7.3	+7.4	744.4	10.540	10.194	10.196	10.355	10.168	10.685	11.111
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VII

1960

Mars		T_i	T_e	B_0	41	42	43	44	45	46	47
23	RG	+2.2	+2.7	743.7	10.494	10.270	10.123	10.661	10.479	-	10.256

Avr.

5	RG	+5.7	+6.0	745.0	9.580	10.280	10.266	10.554	10.622	10.437	10.461
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VII

Avr.					41	42	43	44	45	46	47
12	RG	+14.0	+14.4	741.8	-	10.357	10.198	9.883	11.677	-	-
14	RG	+12.5	+12.5	739.0	10.460	10.477	10.520	10.520	10.611	10.360	10.674
22	GT	+10.4	+9.0	735.8	10.175	10.799	10.510	-	-	-	-
24	RG	+8.6	+8.2	734.4	10.068	-	10.619	10.522	10.657	10.551	10.195
26	RG	+5.7	+4.7	737.7	9.968	10.306	9.948	10.785	9.903	10.377	10.117

Mai

3	RG	+7.5	+6.7	747.2	10.277	10.569	9.931	-	9.615	10.176	10.054
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VIII

Avr.					48	49	50	51	52	53	54
12	RG	-	-	-	-	-	-	-	-	-	-
14	RG	+11.0	11.3	738.1	10.568	10.422	9.502	10.330	10.460	10.552	10.637
22	GT	-	-	-	-	-	-	-	-	-	-
24	RG	+7.9	+8.2	732.8	10.577	10.196	9.933	10.263	10.503	-	10.456
26	RG	+4.2	+4.4	738.1	10.048	9.584	9.513	9.975	10.045	10.236	10.299

Mai

3	RG	+6.0	+6.0	747.2	10.472	10.089	10.572	10.400	10.815	10.544	-
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VIII

Mai					48	49	50	51	52	53	54
12	RG	+12.4	+12.4	739.8	10.380	10.212	10.408	10.072	10.158	10.249	10.286
17	RG	+20.2	+20.4	738.6	10.332	-	10.263	10.801	10.635	10.481	10.641
24	RG	+16.1	+15.2	741.1	10.082	9.896	10.253	10.166	10.132	10.298	10.377

Juin

2	RG	+18.2	+18.0	742.5	10.300	10.415	9.921	9.984	10.528	10.430	10.417
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IX

Mai					55	56	57	58	59	60	61
12	RG	+10.6	+10.8	739.8	9.865	10.066	10.060	10.200	10.348	10.235	10.330
17	RG	+20.5	+20.8	738.2	10.198	10.406	10.124	10.500	10.154	10.571	10.479
24	RG	+14.0	+13.7	740.6	9.834	9.826	10.180	10.226	10.106	10.122	10.326

Juin

2	RG	+17.3	+17.5	742.4	10.252	10.444	10.482	10.148	10.180	10.277	10.094
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1960

IX

Juin		T_i	T_e	B_0	55	56	57	58	59	60	61
9	RG	+22.8	+22.4	738.2	10.370	10.127	10.147	9.952	10.054	10.245	10.283
13	MD	+18.5	+18.4	738.1	9.411	9.894	9.888	-	10.220	10.113	9.991
23	RG	+17.6	+16.7	740.4	10.268	9.710	10.172	9.880	9.745	9.761	10.083
24	MD	+18.2	+17.0	740.8	10.311	9.575	10.344	9.582	10.061	9.821	10.061
28	RG	+20.5	+19.6	735.0	9.901	10.015	10.222	10.148	9.856	10.148	10.152
29	MD	+14.5	+12.8	736.8	9.709	10.193	-	10.176	10.483	10.058	-
Juill.											
6	MD	+21.5	+21.0	738.0	9.812	10.533	10.090	9.754	10.064	10.154	10.127

X

Juin					62	63	64	65	66	67	68
9	RG	+21.3	+21.3	738.0	10.086	10.009	10.232	10.175	10.092	10.240	10.092
13	MD	+18.2	+18.5	737.8	10.240	9.927	10.356	10.456	9.231	9.863	9.856
23	RG	+15.3	+15.2	740.4	9.943	9.971	10.159	10.103	10.148	10.036	9.923
24	MD	+16.1	+15.6	-	10.072	9.928	10.255	10.166	10.102	-	-
28	RG	-	-	-	-	-	-	-	-	-	-
29	MD	-	-	-	-	-	-	-	-	-	-
Juill											
6	MD	+20.6	+20.9	737.8	9.726	10.190	10.155	9.987	9.816	10.017	10.252

X

Juill.					62	63	64	65	66	67	68
14	MD	+16.7	+15.4	740.0	9.871	10.374	10.428	9.980	9.806	9.945	10.166
18	MD	+22.2	+21.7	741.5	10.283	9.992	10.240	-	9.916	-	10.007
20	MD	+25.0	+24.8	739.2	9.771	9.962	10.401	10.202	10.166	9.773	10.239
31	RG	+19.6	+18.8	739.3	9.747	9.949	10.628	10.316	10.168	10.335	10.204
Août											
1	MD	+20.8	+20.4	736.4	10.130	10.127	10.708	10.563	10.229	9.854	10.341
7	RG	+19.6	+18.3	738.0	10.028	9.971	10.641	10.275	10.148	9.870	10.065

XI

Juill.					69	70	71	72	73	74
14	MD	+14.8	+14.4	739.7	9.843	10.278	9.900	-	-	10.422
18	MD	+21.2	+21.4	742.0	-	10.868	9.546	9.582	-	10.480
20	MD	+24.0	+24.0	738.1	10.470	10.551	9.994	9.435	9.760	9.473
31	RG	+17.8	+17.6	738.4	10.190	10.335	10.180	9.913	9.762	10.554
Août										
1	MD	+20.0	+20.5	736.6	10.507	10.756	10.130	9.660	9.787	10.295
7	RG	+17.3	+16.9	738.1	10.263	10.689	9.968	9.813	10.186	10.364

1960					XI					
Août		T _i	T _e	B ₀	69	70	71	72	73	74
16	RG	+16.5	+15.7	739.7	10.405	10.259	10.100	9.910	10.023	10.443
17	MD	+17.4	+17.9	738.1	10.037	10.838	9.718	9.892	9.971	11.082
22	MD	+16.5	+16.6	743.3	10.622	10.621	10.019	9.650	10.214	10.611
23	RG	+20.8	+20.4	741.5	10.517	10.185	9.740	9.772	9.954	10.579
28	RG	+24.3	+23.7	741.2	10.144	10.492	10.039	9.639	-	9.920

Septembre

1	RG	+17.2	+16.4	739.9	-	10.425	9.806	9.732	10.064	10.585
5	MD	+23.2	+23.6	733.7	10.386	10.766	10.338	9.846	10.588	-
7	MD	+13.0	+11.5	741.3	10.059	10.639	9.836	-	10.267	10.572

XII

Août					75	76	77	78	79	80	81	82
16	RG	+15.2	+15.1	739.5	10.336	10.141	10.785	9.734	9.577	9.369	10.263	10.129
17	MD	+17.5	+18.0	737.0	10.201	10.257	10.795	9.921	9.486	9.946	10.223	10.041
22	MD	+15.5	+15.9	743.0	10.533	10.606	10.303	9.898	9.744	9.761	10.314	9.931
23	RG	+20.0	+20.2	740.8	-	-	10.436	9.828	9.810	10.134	9.994	9.592
28	RG	+22.8	+22.5	741.0	9.968	10.123	10.508	9.635	9.593	9.878	9.877	9.419

Septembre

1	RG	+16.2	+16.4	739.6	10.069	10.012	10.287	9.702	9.652	9.898	10.364	9.815
5	MD	-	-	-	-	-	-	-	-	-	-	-
7	MD	+11.0	+11.0	741.1	10.475	10.789	11.061	-	10.121	10.286	10.172	10.365

XII

Septembre					75	76	77	78	79	80	81	82
10	MD	+11.8	+11.7	746.4	10.486	10.754	10.257	9.751	10.040	-	-	-
12	MD	+14.6	+14.6	743.4	10.009	10.198	10.628	-	10.732	-	10.592	9.887
13	RG	+10.8	+10.9	743.7	10.146	10.278	10.577	9.597	9.595	9.787	10.026	9.549
25	RG	+10.2	+9.8	743.3	10.115	10.050	11.058	10.093	10.077	10.013	10.461	10.228
26	MD	+11.3	+11.8	737.8	10.412	10.361	10.545	10.059	9.952	10.099	10.501	9.894

Octobre

4	RG	+12.1	+12.6	740.6	10.442	10.410	10.564	-	-	-	-	-
6	RG	+14.8	+14.8	734.9	10.396	10.143	10.540	10.017	9.925	10.164	10.420	9.932

I

Septembre					1	2	3	4	5	6	7
10	MD	-	-	-	-	-	-	-	-	-	-
12	MD	+13.0	+13.0	743.4	10.045	11.019	10.324	9.979	10.467	9.848	11.223
13	RG	+10.0	+10.4	743.5	9.959	10.437	10.447	10.086	10.260	9.960	10.631
25	RG	+8.6	+8.6	742.3	10.362	10.491	10.625	10.494	10.536	10.142	10.979
26	MD	+11.1	+12.0	737.6	10.097	-	-	-	-	-	-

		I									
1960											
Octobre		T _i	T _e	B _o	1	2	3	4	5	6	7
4	RG	-	-	-	-	-	-	-	-	-	-
6	RG	+14.0	+14.6	733.3	10.340	10.883	10.587	9.975	10.398	10.207	11.068

					I						
Octobre					1	2	3	4	5	6	7
8	MD	+14.0	+12.6	736.1	10.304	10.855	10.261	10.556	10.366	10.016	11.919
19	MD	+8.1	+9.0	738.8	10.429	10.445	10.883	10.461	10.579	10.352	10.898
22	RG	+13.0	+13.3	739.9	10.230	10.079	10.553	9.977	10.456	10.151	10.687

		II								
Octobre					8	9	10	11	12	13
8	MD	+11.6	+11.4	736.4	9.413	10.307	10.685	-	9.742	10.547
19	MD	+8.2	+9.0	738.4	10.109	-	-	-	-	-
22	RG	+12.6	+13.2	740.0	9.563	9.818	10.474	10.866	10.048	10.125

		II								
Novembre					8	9	10	11	12	13
26	RG	+5.1	+5.7	739.2	9.477	9.819	10.774	10.684	9.777	-
Décembre										
1	RG	+3.6	+4.3	747.1	9.844	9.989	10.554	10.753	9.808	10.261
5	MD	+10.4	+10.8	738.1	-	10.093	10.766	11.351	9.725	10.585

		III								
Novembre					14	15	16	17	18	19
26	RG	-	-	-	-	-	-	-	-	-
Décembre										
1	RG	+3.2	+3.9	746.4	10.169	9.464	11.396	10.487	10.532	10.367
5	MD	-	-	-	-	-	-	-	-	-

		III								
Décembre					14	15	16	17	18	19
14	MD	+3.0	+4.2	737.1	10.821	10.167	10.665	10.700	10.912	10.403

					IV						
Décembre					20	21	22	23	24	25	26
14	MD	+3.6	+4.9	738.7	10.446	10.825	10.177	10.537	10.794	11.082	10.691

ELEMENTS DES ORBITES DES PETITES PLANETES

par Ružica S. Mitrinović

N°	Désignation	Epoque		1950.0					Gr	Opposition en		Auto- rité MPC	R.
		h	U. T.	l_0	Ω	i	dl/dt	r		longitude			
1	1954 AA	I	-1	97°2	101°0	13°3	0°2933	2.250	18	1953-	XII-28	1027	
2	1954 AB	I	-8	129.3	124.2	8.4	0.2084	2.867	14.1	1954-	II- 4	1070	
3	1954 AD	I	-3	83.1	146.3	5.7	0.2315	/2.458/	14.8	1953-	XII-10	1150	
4	1954 AE	I	-3	87.6	130.7	5.8	0.3080	2.175	13.8	1953-	XII-13	1150	
5	1954 AG	I	-3	121.0	104.1	2.6	0.2418	2.458	14.5	1954-	I-27	1150	1
	1954 AG	II	-28	134.7	128.5	6.0	0.1912	/2.477/	14.6	1954-	I-29	1150	
6	1954 AH	I	-3	116.2	125.9	2.8	0.3998	1.824	14.0	1954-	I-26	1150	
7	1954 AJ	I	-3	121.7	276.4	2.4	0.1805	3.132	14.8	1954-	I-26	1150	
8	1954 AM	I	-9	108.9	202.4	22.3	0.4400	1.855	16.2	1954-	I-10	1306	
9	1954 BA	I	-31	129.7	307.9	3.8	0.3886	2.053	14.3	1954-	I-29	1070	
10	1954 BB	I	-30	130.0	268.4	1.3	0.4485	1.791	14.7	1954-	I-30	1071	
11	1954 BC	I	-24	99.2	307.6	2.9	0.2332	/2.461/	14.6	1953-	XII-24	1095	
12	1954 BL	I	-24	99.9	144.5	0.8	0.2542	/2.461/	14.4	1953-	XII-24	1095	
13	1954 BE	I	-24	100.7	279.7	4.5	0.2425	/2.461/	14.8	1953-	XII-25	1095	
14	1954 CA	II	-2	115.9	40.2	16.0	0.2553	2.461	17.1	1954-	I-11	1086	
15	1954 CB	II	-9	134.7	47.7	8.2	0.0941	5.265	16.7	1954-	II- 3	1086	
16	1954 CC	II	-9	134.3	345.7	10.3	0.2685	2.389	17.7	1954-	II- 1	1086	
17	1954 CD	II	-9	134.8	107.6	10.4	0.2012	2.917	16.8	1954-	II- 2	1086	
18	1954 CG	II	-2	124.1	354.4	5.4	0.2011	2.907	15	1954-	I-22	1095	
19	1954 CH	II	-8	119.4	152.3	11.3	0.2395	/2.466/	14.3	1954-	I-14	1095	
20	1954 CL	II	-2	126.1	49.7	5.7	0.2266	2.664	15.6	1954-	I-24	1095	2
21	1954 DA	II	-26	156.2	110.5	8.6	0.2546	2.463	17.1	1954-	II-25	1090	
22	1954 DB	II	-28	146.0	69.4	5.4	0.2157	2.761	14.5	1954-	II-11	1150	
23	1954 DC	II	-28	145.7	11.3	10.4	0.2330	2.681	15.0	1954-	II-10	1150	
24	1954 DD	II	-28	146.7	358.0	16.5	0.1800	3.117	14.0	1954-	II-13	1150	
25	1954 DF	II	-28	179.8	199.1	9.8	0.2253	/2.477/	14.8	1954-	III-26	1150	
26	1954 DG	II	-28	177.6	305.4	3.8	0.2837	2.299	14.6	1954-	III-26	1150	
27	1954 EA	III	-7	138.7	104.9	11.7	0.2110	/2.481/	13.6	1954-	II- 1	1071	
28	1954 EB	III	-7	132.8	63.4	9.3	0.3573	/4.962/	14.0	1954-	I-30	1071	
29	1954 EC	III	-7	137.3	76.6	12.9	0.1397	/3.308/	13.8	1954-	II- 2	1071	
30	1954 EE	III	-5	134.8	104.0	30.0	0.1998	/2.480/	17.6	1954-	I-28	1090	
31	1954 EF	III	-5	175.2	324.5	5.2	0.3507	1.994	16.6	1954-	III-22	1090	
32	1954 EG	III	-5	179.8	289.7	5.7	0.2269	2.666	16.5	1954-	III-25	1090	
33	1954 EH	III	-6	137.5	349.4	24.5	0.1619	/2.480/	16.7	1954-	II- 1	1090	
34	1954 EJ	III	-6	153.5	331.1	35.4	0.1778	/2.480/	17.6	1954-	II-20	1090	
35	1954 EL	III	-6	180.5	200.2	7.2	0.2493	2.504	17.8	1954-	III-26	1090	
36	1954 EM	III	-7	135.3	325.9	21.0	0.1763	/2.481/	15.8	1954-	I-29	1090	
37	1954 EN	III	-7	152.7	338.5	0.9	0.3514	1.992	16.7	1954-	II-14	1090	

N ^o	Désigna- tion	Epoque		1950.0						Opposition en		Auto- rité MPC	R.
		O ^h	U. T.	l ₀	Ω	i	dl/dt	r	Gr	longitude			
38	1954 EO	III	-7	152.0	322.5	6.3	0.3403	2.035	15.8	1954-	II-14	1090	
39	1954 EP	III	-10	168.3	89.1	10.3	0.5039	1.655	16.5	1954-	III- 8	1090	
40	1954 EQ	III	-10	168.0	54.3	10.1	0.4025	1.888	16.1	1954-	III- 8	1090	
41	1954 EU	III	-2	174.4	218.5	8.6	0.1863	2.959	15.8	1954-	III-18	1306	
42	1954 EV	III	-11	157.5	257.4	14.3	0.2815	2.310	16.0	1954-	II-21	1306	
43	1954 EW	III	-13	181.0	355.2	12.8	0.5055	/2.485/	14.8	1954-	III-31	1306	
44	1954 GA	IV	-2	186.8	175.5	3.8	0.3081	2.173	16.9	1954-	III-27	1091	
45	1954 GB	IV	-2	185.2	169.8	1.6	0.1709	3.211	17.4	1954-	III-26	1091	
46	1954 GC	IV	-2	185.2	2.3	6.4	0.2384	2.569	17.2	1954-	III-25	1091	
47	1954 GD	IV	-2	185.3	188.0	14.7	0.2512	2.395	16.7	1954-	III-25	1091	
48	1954 GE	IV	-2	184.5	186.8	3.2	0.2518	2.486	16.8	1954-	III-24	1091	
49	1954 GF	IV	-2	184.3	286.7	1.4	0.2973	2.231	17.2	1954-	III-23	1091	
50	1954 GG	IV	-2	183.3	138.1	9.7	0.2055	2.863	16.7	1954-	III-23	1091	
51	1954 GH	IV	-8	202.8	57.2	17.8	0.2301	2.728	14.0	1954-	IV-14	1103	
52	1954 GK	IV	-8	191.0	279.1	13.7	0.1806	3.119	15.2	1954-	III-30	1307	
53	1954 HA	IV	-24	201.8	57.5	7.0	0.1809	3.104	13.7	1954-	IV- 9	1095	
54	1954 HB	IV	-24	202.8	110.3	5.5	0.1323	3.810	14.2	1954-	IV-11	1095	
55	1954 HD	IV	-25	190.5	213.4	15.9	0.1929	/2.515/	16.3	1954-	III-25	1106	
56	1954 HE	IV	-26	178.6	130.7	21.8	0.1391	/2.516/	17.2	1954-	III-13	1106	
57	1954 HF	IV	-26	212.9	156.3	8.9	0.3157	2.159	17.1	1954-	IV-22	1106	
58	1954 HG	IV	-26	213.0	122.3	4.0	0.3501	2.025	17.1	1954-	IV-22	1106	
59	1954 JA	V	-5	223.4	155.4	3.4	0.5959	1.441	16.4	1954-	V- 3	1106	100
60	1954 JB	V	-4	221.4	151.8	7.5	0.2981	2.323	16.9	1954-	V- 1	1106	101
61	1954 JC	V	-4	221.0	144.4	5.6	0.4031	1.827	17.2	1954-	IV-30	1106	102
62	1954 JD	V	-6	195.8	180.4	33.2	0.2190	/2.522/	16.4	1954-	III-29	1106	103
63	1954 JE	V	-6	196.2	46.5	11.1	0.3747	/2.522/	17.7	1954-	III-18	1106	104
64	1954 JF	V	-6	217.3	175.7	14.1	0.2084	2.824	17.3	1954-	IV-25	1106	105
65	1954 JG	V	-6	238.1	61.0	4.7	0.2427	2.548	14.0	1954-	V-24	1106	106
66	1954 JH	V	-9	235.0	78.6	7.1	0.3740	2.562	16.5	1954-	V-18	1106	107
67	1954 JJ	V	-9	234.0	72.7	9.1	0.4141	2.322	15.6	1954-	V-17	1106	108
68	1954 JK	V	-9	234.1	227.5	4.3	0.4198	2.289	17.2	1954-	V-18	1106	109
69	1954 JL	V	-10	236.7	176.6	6.0	0.4275	2.224	16.4	1954-	V-21	1106	110
70	1954 JM	V	-10	238.0	116.4	7.1	0.2138	2.774	16.7	1954-	V-22	1106	111
71	1954 JP	V	-1	217.0	356.0	3.9	0.3367	2.051	14.2	1954-	IV-26	1307	112
72	1954 JQ	V	-2	220.1	21.8	2.3	0.2409	/2.520/	15.0	1954-	IV-30	1307	113
73	1954 JR	V	-2	230.1	328.4	6.0	0.1732	3.200	16.0	1954-	V-13	1307	114
74	1954 JS	V	-6	211.2	338.2	11.0	0.2044	2.858	14.0	1954-	IV-18	1307	115
75	1954 JT	V	-9	221.6	355.1	7.6	0.1848	3.065	14.8	1954-	V- 1	1307	116
76	1954 JU	V	-6	220.2	217.9	6.6	0.4274	1.739	15.0	1954-	IV-27	1307	117
77	1954 KA	V	-29	249.4	164.4	4.5	0.3982	1.856	16.6	1954-	VI- 2	1107	118
78	1954 KB	V	-29	247.8	115.0	4.6	0.4612	1.684	17.1	1954-	V-30	1107	119

N ^o	Désignation	Epoque 0 ^h U. T.	1950.0					Gr	Opposition en longitude		Auto- rité MPC	R.
			l_0	Ω	i	dl/dt	r					
79	1954 KC	V -26	240 ^o .6	86 ^o .3	10 ^o .5	0 ^o .2119	2.862	14.4	1954-	V-21	1143	
80	1954 KD	V -26	242.9	98.2	6.8	0.3216	2.207	14.4	1954-	V-24	1143	
81	1954 KE	V -23	232.1	24.3	14.4	0.1267	3.909	14.2	1954-	V-12	1307	
82	1954 KL	V -30	234.8	353.8	6.1	0.1611	3.311	16.2	1954-	V-13	1307	
83	1954 KM	V -30	239.1	2.5	4.2	0.3758	1.902	16.5	1954-	V-14	1307	
84	1954 LB	VI -5	246.2	210.7	0.5	0.1499	3.535	17.6	1954-	V-26	1307	
85	1954 LC	VI -7	257.9	63.0	1.5	0.3768	1.915	16.7	1954-	VI-10	1107	
86	1954 LD	VI -7	257.8	246.3	5.3	0.1998	3.012	17.3	1954-	VI- 9	1107	
87	1954 LE	VI -7	255.2	250.0	2.3	0.5979	1.454	16.5	1954-	VI- 8	1107	
88	1954 LF	VI -6	255.2	207.8	0.7	0.4857	1.700	16.6	1954-	VI- 7	1107	
89	1954 LH	VI -5	246.1	252.5	5.1	0.2153	2.765	17.0	1954-	V-25	1121	
90	1954 MB	VI -24	253.8	252.0	11.7	0.2905	2.272	-	1954-	V-28	1122	
91	1954 MC	VI -27	257.8	45.6	12.5	0.0936	5.350	17.8	1954-	VI- 7	1122	
92	1954 MD	VI -29	283.2	199.0	11.5	0.1610	3.389	14.5	1954-	VII- 7	1143	
93	1954 MJ	VI -23	260.2	168.0	3.6	0.4765	/1.606/	15.0	1954-	V-31	1151	
94	1954 MK	VI -23	262.1	126.3	4.1	0.5543	/1.452/	15.0	1954-	V-31	1151	
95	1954 ML	VI -23	268.7	122.6	9.8	0.2716	2.399	14.8	1954-	VI-19	1151	
96	1954 MO	VI -29	257.4	224.6	15.5	0.2158	/2.542/	15.0	1954-	VI- 3	1151	
97	1954 MP	VI -30	296.5	169.6	9.8	0.2045	/2.542/	14.5	1954-	VII-25	1151	
98	1954 MQ	VI -30	297.4	229.4	8.1	0.2012	/2.542/	15.0	1954-	VII-26	1151	
99	1954 NA	VII -6	274.1	235.0	3.6	0.2702	2.375	17.8	1954-	VI-22	1122	
100	1954 NB	VII -6	272.9	55.7	0.3	0.2019	2.870	14.8	1954-	VI-22	1122	
101	1954 NC	VII -9	290.1	291.6	3.8	0.3323	2.075	16.6	1954-	VII-15	1122	
102	1954 ND	VII -9	289.4	89.5	9.5	0.2557	2.498	16.8	1954-	VII-13	1122	
103	1954 NE	VII -9	287.9	197.9	1.3	0.2662	2.420	15.4	1954-	VII-11	1122	
104	1954 NF	VII -9	298.8	223.3	5.8	0.1903	/2.542/	17.5	1954-	VII-25	1122	
105	1954 NG	VII -10	296.8	328.6	16.3	0.2638	2.415	15.6	1954-	VII-24	1122	
106	1954 NK	VII -4	271.7	239.1	11.8	0.2349	2.607	14.8	1954-	VI-20	1151	
107	1954 NL	VII -7	273.3	130.0	6.0	0.3726	1.911	14.8	1954-	VI-18	1151	
108	1954 NM	VII -7	289.4	168.9	7.1	0.2612	2.436	14.5	1954-	VII-14	1152	
109	1954 NO	VII -9	297.8	275.4	8.1	0.2559	2.463	14.0	1954-	VII-25	1152	
110	1954 NP	VII -9	295.7	132.3	7.2	0.2961	2.234	14.8	1954-	VII-23	1152	
111	1954 NQ	VII -3	288.4	278.7	37.5	0.1240	4.003	-	1954-	VII-12	1383	
112	1954 NR	VII -2	264.7	123.0	8.9	0.2210	2.930	14.8	1954-	VI-12	1307	
113	1954 NS	VII -2	269.2	234.2	5.6	0.3574	1.966	15.0	1954-	VI-14	1307	
114	1954 NT	VII -9	306.0	300.0	9.5	0.2038	/2.542/	14.5	1954-	VIII- 4	1323	
115	1954 NU	VII -9	306.0	302.8	17.9	0.1982	2.542	14.8	1954-	VIII- 3	1323	
116	1954 NV	VII -9	281.2	69.3	2.8	0.1797	3.167	14.0	1954-	VII- 2	1152	
117	1954 OA	VII -26	301.0	272.2	11.8	0.1472	3.564	14.5	1954-	VII-24	1152	
118	1954 OB	VII -28	293.1	135.9	9.4	0.2130	2.782	15.0	1954-	VII-12	1152	
119	1954 OC	VII -30	313.5	157.1	10.0	0.2098	2.820	14.8	1954-	VIII- 8	1152	

N ^o	Désigna- tion	Epoque O ^h U. T.	1 ₀	1950.0 Ω	i	dl/dt	r	Gr	Opposition en longitude	Auto- rité R. MPC
120	1954 OD	VII -30	313.3	168.0	5.0	0.2354	2.602	15.0	1954- VIII- 8	1152
	1954 OD	VIII -1	313.7	157.4	6.8	0.2396	2.570	15.0	1954- VIII- 8	1319
121	1954 OE	VII -26	307.9	313.1	18.7	0.1743	3.164	16.4	1954- VIII- 1	1201
122	1954 PA	VIII -7	331.2	350.1	14.7	0.1624	3.336	17.5	1954- VIII-28	1141
123	1954 PB	VIII -3	317.3	218.0	8.8	0.2234	2.706	14.5	1954- VIII-12	1143
124	1954 PC	VIII -3	318.1	204.2	10.9	0.2348	2.602	14.3	1954- VIII-14	1143
125	1954 PD	VIII -3	320.4	211.4	11.8	0.1866	3.038	14.3	1954- VIII-16	1143
126	1954 PF	VIII -8	303.4	135.4	4.5	0.3088	2.171	13.5	1954- VII-21	1307
127	1954 PG	VIII -1	314.0	151.3	11.5	0.2183	2.743	15.0	1954- VIII- 8	1319
128	1954 PH	VIII -4	308.8	190.9	12.7	0.2510	2.521	14.8	1954- VII-31	1319
	1954 PH	VIII -6	309.2	202.9	12.2	0.2209	2.712	14.8	1954- VII-31	1319
129	1954 PJ	VIII -4	319.4	194.0	8.9	0.2588	2.445	14.8	1954- VIII-16	1319
130	1954 PK	VIII -4	325.4	292.2	9.1	0.2813	2.311	14.5	1954- VIII-25	1319
131	1954 PL	VIII -6	279.7	102.9	47.7	0.0905	/2.536/	-	1954- VI-29	1319
132	1954 PM	VIII -6	320.9	220.0	10.4	0.1782	3.150	14.7	1954- VIII-16	1319
133	1954 PN	VIII -6	323.9	342.3	3.0	0.3746	1.903	14.2	1954- VIII-24	1319
134	1954 QA	VIII -22	319.0	196.4	4.8	0.4182	1.765	16	1954- VIII- 5	1141
135	1954 QB	VIII -31	327.8	329.0	30.1	0.1688	3.267	15.8	1954- VIII-19	1142
136	1954 QE	IX -1	346.0	348.8	32.6	0.1543	3.480	14.5	1954- IX-10	1143
137	1954 QF	IX -1	348.6	222.7	7.4	0.2166	2.750	14.3	1954- IX-15	1143
138	1954 QG	IX -1	349.7	221.2	6.1	0.3380	2.116	14.4	1954- IX-19	1144
139	1954 QK	VIII -26	318.3	127.4	21.1	0.1710	3.218	-	1954- VIII- 8	1207
140	1954 QL	VIII -21	300.4	344.5	20.6	0.0976	/5.058/	14.5	1954- VII-20	1307
141	1954 QN	VIII -27	312.1	81.5	10.4	0.2079	2.830	15.0	1954- VII-30	1307
142	1954 QR	VIII -29	324.1	257.5	23.6	0.1908	2.997	14.2	1954- VIII-14	1319
143	1954 QS	VIII -29	316.4	266.7	36.3	0.2042	/2.525/	14.8	1954- VIII- 5	1319
144	1954 QT	VIII -30	335.2	20.8	4.6	0.4110	1.901	14.8	1954- VIII-28	1319
145	1954 RB	IX -1	314.1	121.5	9.3	0.2772	/2.523/	16	1954- VII-28	1142
146	1954 RC	IX -1	350.1	248.0	5.6	0.3685	1.926	17.0	1954- IX-21	1142
147	1954 RD	IX -1	348.8	338.0	14.4	0.2432	3.897	17.3	1954- IX-13	1142
148	1954 RE	IX -5	0.4	304.8	3.6	0.2385	3.734	17.1	1954- IX-27	1142
149	1954 RF	IX -5	357.6	168.1	7.6	0.2436	2.540	16.3	1954- IX-26	1142
150	1954 RG	IX -5	354.7	0.8	6.4	0.4318	/1.723/	16.9	1954- IX-29	1142
151	1954 RK	IX -6	355.7	227.2	11.7	0.2522	2.495	17.4	1954- IX-23	1142
152	1954 RL	IX -6	358.5	248.5	10.0	0.1559	3.412	16.1	1954- IX-25	1142
153	1954 RM	IX -6	355.5	146.3	8.4	0.3971	1.829	16	1954- IX-28	1143
154	1954 RN	IX -6	0.7	4.2	14.7	0.2324	2.625	17	1954- IX-30	1143
155	1954 RO	IX -4	317.7	97.0	11.3	0.1972	/2.521/	15.0	1954- VIII- 5	1307
156	1954 RP	IX -7	355.4	272.6	2.0	0.3439	2.019	16.5	1954- IX-25	1307
157	1954 RQ	IX -5	358.5	292.5	2.2	0.2174	/2.521/	17.1	1954- IX-27	1142
158	1954 SC	IX -19	351.4	330.0	9.4	0.2503	2.518	16.4	1954- IX-13	1194

R.	N ^o	Désigna- tion	Époque		1950.0					Opposition en		Auto- rité MPC	R.
			O ^h	U. T.	l_0	Ω	i	dl/dt	r	Gr	longitude		
4	159	1954 SD	IX	-22	342.3	4.7	19.1	0.1284	3.875	16.8	1954- IX- 3	1194	
	160	1954 SG	IX	-22	22.6	206.2	27.6	0.1225	4.015	16	1954- X-20	1194	10
		1954 SG	X	-22	26.4	203.3	8.2	0.3837	1.908	15.7	1954- X-19	1196	11
	161	1954 SH	IX	-23	0.8	327.9	11.2	0.4059	1.824	17.0	1954- IX-25	1194	
5		1954 SH	IX	-27	2.6	320.8	8.6	0.4819	1.671	16.3	1954- IX-25	1195	12
	162	1954 SJ	IX	-24	359.3	338.3	5.5	0.3275	2.125	16	1954- IX-22	1194	
	163	1954 SK	IX	-23	358.8	330.5	1.4	0.5057	1.645	16.4	1954- IX-21	1194	
	164	1954 SL	IX	-23	358.8	175.3	6.4	0.5141	1.593	17	1954- IX-21	1194	
	165	1954 SM	IX	-23	357.7	218.8	2.6	0.2787	2.378	16.0	1954- IX-20	1194	
	166	1954 SO	IX	-23	356.2	180.5	6.6	0.2106	2.827	15.7	1954- IX-18	1194	
	167	1954 SP	IX	-23	356.2	357.2	3.9	0.3284	2.091	17	1954- IX-18	1194	
	168	1954 SR	IX	-24	4.7	249.0	12.3	0.2804	2.328	16.3	1954- IX-30	1195	
	169	1954 SS	IX	-24	5.1	73.1	2.3	0.2304	2.661	16.2	1954- IX-30	1195	
	170	1954 ST	IX	-24	2.5	164.7	3.1	0.2801	2.372	16.7	1954- IX-27	1195	
	171	1954 SU	IX	-27	350.4	193.3	6.0	0.2813	2.315	16	1954- IX- 8	1195	
	172	1954 SW	IX	-27	0.6	28.1	10.5	0.2561	2.512	16.7	1954- IX-23	1195	
	173	1954 SX	IX	-27	1.2	113.4	3.0	0.2239	2.792	15.1	1954- IX-24	1195	
	174	1954 SY	IX	-27	1.8	8.2	12.2	0.4725	1.643	16.3	1954- IX-24	1195	
	175	1954 SZ	IX	-27	359.8	36.0	8.8	0.2816	2.315	16.1	1954- IX-22	1195	
	176	1954 SA ₁	IX	-27	0.5	94.4	5.9	0.2343	2.673	17.7	1954- IX-23	1195	
	177	1954 SB ₁	IX	-27	0.2	145.4	5.8	0.3133	2.160	17.6	1954- IX-22	1195	
	178	1954 SC ₁	IX	-27	358.0	30.6	6.0	0.2504	2.506	16.0	1954- IX-19	1195	
	179	1954 SD ₁	IX	-27	358.9	5.4	14.2	0.2022	2.931	17.5	1954- IX-21	1195	
6	180	1954 SE ₁	IX	-26	3.3	291.2	5.6	0.4382	1.759	16.8	1954- IX-27	1195	
	181	1954 SF ₁	IX	-27	2.4	252.7	4.2	0.3728	1.935	15.8	1954- IX-25	1195	
	182	1954 SG ₁	IX	-27	0.3	284.7	8.6	0.2311	2.687	15.8	1954- IX-23	1195	
	183	1954 SH ₁	IX	-27	19.9	58.8	8.1	0.3396	2.037	16.2	1954- X-22	1195	
	184	1954 SJ ₁	IX	-29	351.5	318.3	8.2	0.2170	2.752	14.8	1954- IX-11	1319	
	185	1954 SK ₁	IX	-29	350.8	334.1	16.4	0.2051	2.854	14.8	1954- IX-10	1319	
	186	1954 SL ₁	IX	-29	13.7	351.9	12.5	0.1531	3.490	14.6	1954- X- 9	1320	
	187	1954 SM ₁	IX	-29	352.1	334.9	14.0	0.1934	2.973	15.0	1954- IX-12	1633	
	188	1954 TE	X	-1	1.0	328.2	4.3	0.2188	2.743	16.0	1954- IX-22	1307	
	189	1954 TF	X	-2	4.5	335.4	5.1	0.2603	2.457	14.8	1954- IX-26	1307	
7	190	1954 TG	X	-2	3.3	267.0	3.3	0.1901	3.051	14.5	1954- IX-25	1307	
	191	1954 TH	X	-6	357.4	41.1	20.2	0.1859	3.048	13.0	1954- IX-17	1307	
	192	1954 TJ	X	-1	11.5	36.6	12.9	0.1466	3.563	14.0	1954- X- 6	1320	
	193	1954 TK	X	-1	9.6	113.8	5.6	0.2424	2.592	14.4	1954- X- 4	1320	
8	194	1954 TL	X	-1	9.3	27.2	16.6	0.2092	2.894	14.4	1954- X- 3	1320	
	195	1954 TM	IX	-30	7.6	42.7	7.2	0.1666	3.349	14.2	1954- X- 1	1320	
	196	1954 TN	X	-1	24.0	285.0	5.4	0.2531	2.478	14.5	1954- X-23	1320	
9	197	1954 TO	X	-3	353.9	342.7	7.3	0.1662	2.835	14.8	1954- IX-14	1320	

N ^o	Désignation	Epoque O ^h U. T.	1950.0 l ₀	Ω	i	dl/dt	r	Gr	Opposition en longitude	Auto- rité MPC	R.
198	1954 TP	X -3	15 ² .3	220 ⁰ .1	8 ⁰ .1	0 ⁰ .2182	2.756	15.0	1954- X-10	1320	
199	1954 TQ	X -3	16.3	345.6	9.4	0.1476	3.561	14.6	1954- X-11	1320	
200	1954 TR	X -3	333.9	92.2	1.4	0.2048	2.859	-	1954- VIII-31	1166	13
201	1954 UE	X -19	1.2	230.7	10.0	0.3979	/2.490/	16	1954- IX- 9	1195	
202	1954 UF	X -20	8.0	175.0	5.3	0.1287	3.845	17.1	1954- IX-29	1195	
203	1954 UG	X -20	20.9	346.1	9.0	0.3036	2.203	16	1954- X-12	1195	
204	1954 UH	X -21	1.5	351.5	17.2	0.2363	/2.489/	17	1954- IX-17	1196	
205	1954 UJ	X -21	2.3	206.1	8.0	0.2417	/2.489/	16.6	1954- IX-18	1196	
206	1954 UK	X -22	24.8	147.6	3.1	0.2763	2.358	17	1954- X-17	1398	
207	1954 UL	X -22	26.9	321.1	0.9	0.3779	1.990	16.2	1954- X-20	1196	
208	1954 UM	X -22	25.9	9.8	3.1	0.3000	2.247	16.0	1954- X-18	1196	
209	1954 UN	X -22	25.7	174.0	3.1	0.3704	1.944	16.1	1954- X-18	1196	
210	1954 UO	X -22	25.9	245.4	1.5	0.2978	2.277	17.0	1954- X-19	1196	
211	1954 UP	X -22	24.8	354.0	2.6	0.2058	2.885	16.9	1954- X-17	1196	
212	1954 UQ	X -22	25.0	20.5	12.9	0.2292	2.675	17.5	1954- X-18	1196	
213	1954 UR	X -22	24.5	21.0	9.5	0.2701	2.381	17.0	1954- X-17	1196	
214	1954 US	X -22	24.0	17.1	2.4	0.1979	2.936	16.2	1954- X-17	1196	
215	1954 UT	X -22	22.8	27.9	11.5	0.1915	3.016	15.9	1954- X-15	1196	
216	1954 UU	X -22	23.6	5.4	6.9	0.2275	2.661	17	1954- X-16	1196	
217	1954 UV	X -22	23.9	22.1	5.0	0.3364	2.048	17.2	1954- X-15	1196	
218	1954 UW	X -22	22.2	25.0	4.2	0.2044	2.868	16.6	1954- X-14	1196	
219	1954 UX	X -22	22.5	194.4	11.3	0.2390	2.575	16.0	1954- X-14	1196	
220	1954 UY	X -22	21.7	186.0	4.2	0.2284	2.640	17.2	1954- X-13	1196	
221	1954 UZ	X -22	25.3	126.7	2.7	0.3097	2.168	17.6	1954- X-18	1196	
	1954 UZ	X -22	24.9	107.8	3.0	0.2395	2.558	17.2	1954- X-17	1196	
222	1954 UA ₁	X -22	27.1	126.1	3.9	0.3997	1.959	16.6	1954- X-20	1196	
223	1954 UB ₁	X -22	23.7	151.1	7.4	0.2175	2.734	16.2	1954- X-16	1196	
224	1954 UC ₁	X -22	24.0	45.8	13.9	0.3237	2.113	17.2	1954- X-16	1196	
225	1954 UD ₁	X -22	23.0	149.2	8.0	0.2452	2.764	16.2	1954- X-15	1196	
226	1954 UE ₁	X -23	11.9	239.0	3.2	0.4019	1.812	17.3	1954- IX-23	1196	14
227	1954 UF ₁	X -23	4.2	320.5	5.6	0.2619	/2.487/	16.9	1954- IX-19	1196	
228	1954 UG ₁	X -23	3.2	297.2	2.9	0.1479	3.528	16.1	1954- IX-22	1196	
229	1954 UH ₁	X -23	12.8	317.9	10.7	0.1881	3.024	14	1954- X- 2	1197	
230	1954 UJ ₁	X -23	40.6	6.8	3.3	0.3293	2.099	16.6	1954- XI- 9	1197	
231	1954 UK ₁	X -24	11.7	342.1	8.7	0.2844	2.296	16.1	1954- IX-28	1197	
232	1954 UL ₁	X -24	32.1	305.8	12.5	0.2401	2.681	16.7	1954- X-25	1197	
233	1954 UM ₁	X -24	34.6	262.6	20.5	0.1336	3.979	16.3	1954- X-29	1197	
234	1954 UN ₁	X -24	30.7	276.3	7.9	0.4685	1.709	17.3	1954- X-25	1197	
235	1954 UO ₁	X -23	29.9	288.5	8.6	0.3858	1.990	15.9	1954- X-24	1197	
236	1954 UP ₁	X -23	29.6	18.4	44.0	0.1650	/2.487/	15.9	1954- X-23	1197	
237	1954 UQ ₁	X -25	29.9	330.1	10.3	0.4129	1.852	15.1	1954- X-23	1197	

N ^o	Désigna- tion	Époque 0 ^h U. T.	1950.0 l ₀	Ω	i	dl/dt	r	Gr	Opposition en longitude	Auto- rité MPC	R.
238	1954 US ₁	X -24	42 ^o .6	338 ^o .4	4 ^o .4	0 ^o .2838	2.297	17.3	1954- XI-10	1197	
239	1954 UT ₁	X -25	7.8	26.8	11.2	0.2382	/2.486/	14.9	1954- IX-24	1197	
240	1954 UU ₁	X -25	23.5	36.3	12.9	0.3551	1.976	16	1954- X-13	1197	
241	1954 UV ₁	X -25	22.1	102.7	4.3	0.2906	2.263	17.5	1954- X-12	1197	
242	1954 UW ₁	X -25	20.9	173.0	9.8	0.2360	2.596	16.6	1954- X-11	1197	
243	1954 UX ₁	X -25	21.7	78.1	4.8	0.2882	2.274	16.7	1954- X-11	1197	
244	1954 UY ₁	X -25	20.8	56.8	4.7	0.2147	2.747	15.9	1954- X-12	1197	
245	1954 UZ ₁	X -25	21.1	181.7	6.0	0.2055	2.841	16.7	1954- X-12	1197	
246	1954 UA ₂	X -25	20.6	90.8	1.5	0.1812	3.098	16.7	1954- X-12	1197	
247	1954 UC ₂	X -25	19.8	35.4	4.1	0.2396	2.569	16.8	1954- X-10	1197	
248	1954 UD ₂	X -25	20.5	25.1	9.0	0.2992	2.219	16.1	1954- X-10	1197	
249	1954 UG ₂	X -28	42.3	111.7	2.6	0.2057	2.847	16.1	1954- XI- 7	1198	
250	1954 UL ₂	X -28	41.1	346.6	2.9	0.2252	2.685	16	1954- XI- 6	1198	
251	1954 UR ₂	X -28	38.8	40.3	11.5	0.2568	2.453	17.4	1954- XI- 3	1198	
252	1954 UT ₂	X -28	31.7	19.4	6.1	0.4234	1.762	14.8	1954- X-24	1300	
253	1954 UV ₂	X -27	43.0	82.0	4.1	0.2262	2.679	14.0	1954- XI- 8	1320	
254	1954 UW ₂	X -27	46.1	51.1	3.2	0.1652	3.302	14.4	1954- XI-11	1320	
255	1954 UU ₂	X -27	16.4	323.0	5.5	0.1858	3.058	15.0	1954- X- 6	1320	
256	1954 UX ₂	X -27	44.1	91.3	2.1	0.2204	2.721	14.8	1954- XI-10	1320	
257	1954 UY ₂	X -27	48.0	191.0	2.2	0.3461	2.012	14.0	1954- XI-18	1320	
258	1954 WB	XI -16	45.4	349.9	2.8	0.2351	2.602	17.3	1954- XI- 6	1198	
259	1954 WF	XI -16	45.3	43.4	2.4	0.1926	2.997	16.9	1954- XI- 6	1198	15
	1954 WF	XI -17	45.7	232.3	0.7	0.2039	2.874	17.2	1954- XI- 6	1198	
260	1954 WK	XI -17	45.9	43.8	13.4	0.2279	2.665	16.6	1954- XI- 6	1198	
261	1954 WM	XI -27	32.1	42.0	14.3	0.2038	/2.467/	17	1954- X-18	1199	
262	1954 WO	XI -27	49.0	236.0	19.6	0.1803	3.095	17	1954- XI- 8	1199	
263	1954 WT	XI -19	47.4	300.0	4.7	0.2745	2.353	-	1954- XI- 7	1469	16
	1954 WT	XI -16	46.9	289.9	4.8	0.3104	2.169	15.9	1954- XI- 7	1198	17
264	1954 XD	XII - 2	75.3	78.3	24.1	0.2047	2.891	14.6	1954- XII- 9	1169	
265	1954 XE	XII -2	72.8	53.0	7.6	0.1835	3.110	14.4	1954- XII- 6	1169	
266	1954 XF	XII -2	73.3	120.7	2.3	0.1945	2.958	14.5	1954- XII- 6	1169	
267	1954 XG	XII -2	73.5	134.0	3.2	0.2075	2.858	14.5	1954- XII- 7	1169	
268	1954 XH	XII -4	69.0	17.0	2.5	0.3336	2.088	17	1954- XI-30	1199	
269	1954 XK	XII -4	68.0	248.8	9.6	0.3714	1.936	17.1	1954- XI-29	1199	
270	1954 XM	XII -6	89.0	284.0	11.5	0.2610	2.427	17.2	1954- XII-26	1199	
271	1954 XN	XII -6	94.3	278.8	47.4	0.0866	5.105	15.9	1954- XII-28	1199	18
272	1954 XO	XII -3	82.1	181.8	0.1	0.2428	2.547	15.0	1954- XII-18	1321	
273	1954 YA	XII -24	57.4	53.0	3.0	0.3104	2.152	16.7	1954- XI- 5	1199	
274	1954 YB	XII -24	54.3	38.7	8.8	0.1469	/2.459/	14.7	1954- XI-11	1199	
275	1954 YC	XII -24	79.2	277.2	6.4	0.4601	1.656	15.0	1954- XII- 1	1199	
276	1956 YD	XII -24	97.3	303.3	17.6	0.0529	4.596	17.4	1954- XII-29	1199	
277	1954 YE	XII -24	97.0	280.8	58.9	0.0259	4.640	16.3	1954- XII-29	1199	19

- 1/ 1954 AG_{I-3} ≠ 1954 AG_{II-28}
- 2/ Voir: MPC - 1449
- 3/ Voir: MPC - 1991
- 4/ 1954 OD_{VII-30} ≠ 1954 OD_{VIII-1}
- 5/ 1954 PH_{VIII-4} ≠ 1954 PH_{VIII-6}
- 6/ 1954 QG ≠ 1954 UE₁
- 7/ 1954 RG ≠ 1954 RN
Pour $r = 2.625$; $\Omega = 3^{\circ}6$; $i = 17^{\circ}6$
- 8/ 1954 RN ≠ 1954 RG /Voir MPC - 1331/
- 9/ Voir: MPC - 1991
- 10/ Si $r = 1.908$, on a les valeurs suivantes pour le noeud et l'inclinaison: $\Omega = 204^{\circ}5$; $i = 6^{\circ}7$
- 11/ 1954 SG?
- 12/ Pour $r = 1.824$; $\Omega = 324^{\circ}6$; $i = 10^{\circ}4$
- 13/ Voir: MPC - 1418
- 14/ 1954 UE₁ = 1954 QG /MPC - 1855/
Mais, si $r = 2.116$ on a les valeurs pour le noeud et l'inclinaison: $\Omega = 225^{\circ}6$; $i = 4^{\circ}6$ et l'identité n'existe pas.
- 15/ 1954 WF_{XI-16} ≠ 1954 WF_{XI-17}
- 16/ Autorité: Astr. Circ. SSSR, N° 168.11
- 17/ 1954 WT_{XI-16} /Astr. Circ. SSSR, N° 168.11/ = Matterania /?/
- 18/ 1954 XN ≠ 1954 YE
- 19/ 1954 YE ≠ 1954 XN

Remarque. Les valeurs de r mises entre crochets sont hypothétiques; or, les éléments sont peu certains.

CIRCULAR ELEMENTS

by R.S.Mitrinović

Planet	Epoch		Equinox 1950.0				Observations	R
	O^h	U.T.	u_0	Ω	i	μ	a	
1960 BC	60-	II-21	97 ^o 523	55 ^o 132	2 ^o 844	0 ^o 20563	2.8426	Jan.26,Mar.1 1/
1960 DB	60-	III-1	0.888	151.678	5.216	0.14973	3.514	Feb.21,Mar.1
1960 EB	60-	III-23	20.127	136.843	3.311	0.20962	2.8068	Mar.1, 23
1960 EC	60-	III-22	156.156	16.419	4.525	0.20382	2.86	Mar.5, 22
1960 ED	60-	III-22	174.214	359.143	15.830	0.22926	2.644	Mar.5, 22
1960 JA	60-	V-23	47.649	187.316	22.469	0.16216	3.33	May 4, 23
/MPC - 2119/								

1/ 1960 BC = 1938 EF ?

The observation of 1960 Feb.21.29 /Goethe Ling, MPC - 2063/ does not belong to 1960 BC, $O - C = - 0^m.9 + 6'$.

ELEMENTS DES ORBITES DES PETITES PLANETES

par R.S.Mitrinović

N°	Désignation	Époque 0 ^h U. T.	1950.0 l ₀	Ω	i	dl/dt	r	Gr	Opposition en longitude	Auto- rité MPC	R.
1	1960 BB	I -24	129.3	287.3	5.5	0.6002	1.386	16	1960- II- 8	2062	
2	1960 BD	II - 1	128.6	277.6	2.9	0.3279	2.119	16	1960- I-28	2062	
3	1960 DA	II -22	151.5	151.7	6.7	0.3716	2.681	16.0	1960- II-21	2063	
4	1960 DC	II -27	156.6	2.4	7.5	0.2858	2.476	15.65	1960- II-26	2063	
5	1960 DD	II -27	155.6	134.7	11.6	0.3255	2.107	16	1960- II-24	2063	
6	1960 DE	II -27	156.3	147.6	4.6	0.3195	2.277	16	1960- II-25	2063	
7	1960 DF	II -27	148.8	292.3	1.3	0.3533	2.473	16.0	1960- II-15	2063	
8	1960 EA	III -1	157.1	158.4	5.1	0.2500	2.541	14.98	1960- II-25	2063	
9	1960 EE	III -6	174.0	198.9	1.3	0.2526	2.484	15.9	1960- III-17	2064	1
	1960 EE	III -27	179.7	182.6	4.8	0.2729	2.359	16.20	1960- III-18	2065	
10	1960 EF	III -6	173.5	222.2	2.1	0.1260	3.906	16	1960- III-15	2064	
11	1960 FA	III -23	162.1	348.8	14.6	0.2136	/2.492/	11.3	1960- II-26	2064	2
	1960 FA	III -25	162.6	26.3	2.4	0.2498	/2.494/	13	1960- II-24	2064	
12	1960 FB	III -23	177.7	152.8	4.9	0.2543	2.492	16	1960- III-16	2064	
13	1960 FC	III -23	176.3	150.5	10.7	0.2345	2.630	16	1960- III-15	2064	
14	1960 FD	III -23	201.4	14.0	12.4	0.0861	5.600	16.00	1960- IV-13	2064	
15	1960 FE	III -23	198.2	8.6	11.7	0.0991	4.637	16.25	1960- IV- 9	2064	
16	1960 FF	III -25	168.8	155.3	13.2	0.4131	1.781	16	1960- II-27	2064	
17	1960 FH	III -27	167.0	51.9	6.6	0.2235	/2.495/	16	1960- III- 2	2065	
18	1960 FJ	III -28	185.8	239.3	5.6	0.2623	2.471	15.5	1960- III-26	2065	
19	1960 FK	III -28	184.9	184.5	2.7	0.3766	1.913	16	1960- III-24	2065	
20	1960 HA	IV -19	191.2	143.4	16.8	0.2427	2.543	16.59	1960- III-26	2065	
21	1960 HB	IV -19	188.1	122.2	12.8	0.1439	3.627	16	1960- III-25	2065	
22	1960 HC	IV -22	179.4	46.6	6.8	0.5345	2.514	15.3	1960- II- 8	2065	
23	1960 HD	IV -23	202.7	181.0	13.7	0.1974	2.932	15.77	1960- IV-10	2066	
24	1960 KA	V -23	226.7	189.8	16.7	0.3882	1.858	15.9	1960- IV-26	2066	
25	1960 KB	V -24	233.2	15.2	1.8	0.2114	2.798	15.5	1960- V-11	2066	
26	1960 LA	VI -1	232.1	107.6	8.7	0.1216	/2.535/	16	1960- V-10	2066	
27	1960 MA	VI -22	264.9	178.6	8.4	0.2626	2.437	14.9	1960- VI-14	2026	
28	1960 OB	VII -30	298.3	150.9	10.2	0.1924	2.977	15.1	1960- VII-19	2068	
29	1960 OC	VII -16	290.1	269.6	32.0	0.0982	5.160	15.9	1960- VII-12	2133	
30	1960 OD	VII -21	299.0	313.9	5.6	0.3932	1.882	15.12	1960- VII-22	2133	
31	1960 OE	VII -21	298.5	146.3	1.4	0.4800	1.694	14.93	1960- VII-22	2133	
32	1960 QA	VIII -27	335.1	229.7	10.1	0.2656	2.551	-	1960- VIII-29	2070	
33	1960 QB	VIII -24	315.1	307.2	19.2	0.2122	/2.527/	16.0	1960- VIII- 3	2060	
34	1960 QC	VIII -26	330.8	345.2	11.8	0.2289	2.652	15	1960- VIII-23	2074	
35	1960 RA	IX -13	346.4	169.4	6.3	0.1263	3.869	15.6	1960- IX- 8	2068	
36	1960 RB	IX -13	345.7	131.9	4.5	0.1758	3.225	15.7	1960- IX- 7	2068	

N ^o	Désigna- tion	Epoque 0 ^h U. T.	1950.0					Gr	Opposition en longitude		Auto- rité MPC	R.
			l_0	Ω	i	dl/dt	r					
37	1960 VA	XI -12	43.2	197.6	21.0	0.1745	3.182	15.98	1960-	XI- 4	2134	
38	1960 VB	XI -12	44.9	170.4	6.5	0.3864	1.867	16.3	1960-	XI- 4	2134	
39	1960 VC	XI -12	39.5	155.7	10.3	0.1440	3.612	14.45	1960-	X-31	2134	
40	1960 VD	XI -12	48.8	74.6	7.8	0.2452	2.675	16	1960-	XI-11	2135	
41	1960 VE	XI -11	48.8	58.0	1.5	0.6194	1.414	16	1960-	XI-12	2135	
42	1960 VF	XI -12	48.2	166.2	1.2	0.3608	1.979	16	1960-	XI-10	2135	
43	1960 VG	XI -12	47.6	168.5	2.5	0.3048	2.239	16.02	1960-	XI- 9	2135	
44	1960 VH	XI -12	47.9	49.0	9.3	0.3691	1.948	15.8	1960-	XI- 9	2135	
45	1960 VJ	XI -12	47.6	39.9	3.0	0.3539	2.020	16	1960-	XI- 9	2135	
46	1960 VK	XI -12	46.6	134.9	9.0	0.2256	2.749	16	1960-	XI- 8	2135	
47	1960 WA	XI -17	40.8	115.6	3.8	0.2989	2.220	16	1960-	X-28	2135	
48	1960 WB	XI -17	38.1	136.8	4.7	0.2065	2.842	16	1960-	X-27	2135	
49	1960 WC	XI -17	35.7	53.3	16.0	0.1498	3.518	16	1960-	X-26	2135	
50	1960 WD	XI -17	36.8	61.5	2.4	0.1796	3.107	16	1960-	X-26	2135	
51	1960 WE	XI -17	34.7	140.2	5.6	0.1740	3.189	15	1960-	X-24	2135	
52	1960 WF	XI -17	34.5	116.1	4.0	0.1667	3.295	16	1960-	X-24	2135	
53	1960 WG	XI -18	42.3	267.0	16.5	0.1333	3.787	13.0	1960-	XI- 2	2135	
54	1960 WH	XI -19	37.8	174.3	15.3	0.2444	2.534	15.6	1960-	X-25	2135	
55	1960 WJ	XI -18	56.1	291.8	3.3	0.4554	1.734	16	1960-	XI-19	2135	
56	1960 WK	XI -20	56.7	283.4	3.5	0.4280	1.850	14.79	1960-	XI-18	2135	
57	1960 WL	XI -20	40.6	96.6	4.3	0.1415	3.646	15.3	1960-	X-31	2135	
58	1960 WM	XI -20	43.3	31.2	1.7	0.1998	2.906	15.5	1960-	XI- 2	2135	
59	1960 WN	XI -22	58.1	204.7	3.5	0.3771	1.913	14.9	1960-	XI-19	2135	
60	1960 WO	XI -22	56.2	201.3	12.1	0.2209	2.721	13.0	1960-	XI-17	2135	
61	1960 WP	XI -25	49.2	95.7	3.4	0.1860	3.046	15.67	1960-	XI- 8	2136	
62	1960 WQ	XI -25	46.7	214.0	14.0	0.1579	3.392	14.81	1960-	XI- 6	2136	
63	1960 XA	XII -14	69.8	155.3	3.9	0.2802	2.318	15.7	1960-	XI-27	2136	
64	1960 XB	XII -15	62.3	67.8	39.9	0.1699	/2.460/	15.6	1960-	XI-21	2136	
65	1960 YA	XII -17	74.3	260.9	2.4	0.3815	1.882	16	1960-	XI-30	2136	

¹ Deux objets différents.

² Deux objets différents.

Remarque. Les valeurs de r mises entre crochets sont hypothétiques; or, les éléments sont peu certains.

ELEMENTS DES ORBITES DES PETITES PLANETES

par R.S.Mitrinović

N ^o	Désignation	Époque O ^h U. T.	1950.0 l ₀	Ω	i	dl/dt	r	Gr	Opposition en longitude	Auto- rité MPC	R.
1	1961 AA	I -13	109.4	86.0	15.1	0.3035	2.230	12.7	1961- I- 8	2068	
2	1961 AB	I -10	87.8	170.3	5.6	0.2438	/2.458/	16	1960- XII-13	2137	
3	1961 AC	I -10	100.9	135.4	4.9	0.3385	2.044	15.92	1960- XII-28	2137	
4	1961 AD	I -13	87.8	80.1	3.2	0.2544	/2.459/	15.6	1960- XII-11	2137	
5	1961 AE	I -13	111.8	106.9	4.8	0.4834	1.708	15.3	1961- I-11	2137	
6	1961 BA	I -17	115.1	135.5	9.4	0.3678	1.996	15.6	1961- I-14	2069	
7	1961 BB	I -23	122.1	228.9	1.8	0.4140	1.875	16	1961- I-22	2137	
8	1961 CA	II -10	140.0	299.8	8.5	0.3740	2.039	15.5	1961- II- 8	2060	
9	1961 CB	II -13	140.3	99.0	2.9	0.2389	2.605	15.5	1961- II- 8	2060	
10	1961 CD	II -13	141.4	123.3	3.7	0.2697	2.414	15.6	1961- II- 9	2060	
11	1961 DA	II -17	148.4	280.8	4.3	0.5748	1.509	16.2	1961- II-17	2069	
12	1961 DB	II -20	154.0	243.8	3.2	0.2581	2.472	16.5	1961- II-24	2069	
13	1961 DD	II -19	141.2	125.5	5.3	0.5421	1.484	15.6	1961- I-31	2060	
14	1961 GA	IV -14	207.4	66.5	2.5	0.1326	3.873	16	1961- IV-18	2139	
15	1961 GB	IV -14	205.3	161.4	2.5	0.2754	2.398	15.56	1961- IV-16	2139	1
16	1961 GC	IV -10	187.0	80.4	1.4	0.4198	1.772	16.5	1961- III-18	2122	
17	1961 GD	IV -10	188.1	121.3	1.3	0.4674	1.643	16.2	1961- III-18	2122	
18	1961 GE	IV -10	191.9	116.1	3.4	0.2403	2.569	15.8	1961- III-30	2122	
19	1961 JA	V -14	213.2	218.4	0.6	0.2246	/2.527/	16.0	1961- IV-17	2123	
20	1961 JB	V -14	218.3	217.8	0.6	0.3821	1.877	15.8	1961- IV-18	2123	
21	1961 JC	V -14	216.5	93.1	20.0	0.1009	4.574	16.0	1961- IV-25	2123	
22	1961 JD	V -11	216.0	180.8	2.1	0.3466	2.008	16	1961- IV-18	2139	
23	1961 JE	V -11	220.6	159.2	1.1	0.5644	1.439	16	1961- IV-17	2139	2

1 1961 GB ≠ 1961 JE

2 1961 JE ≠ 1961 GB

Remarque. Les valeurs de $\underline{r}$ mises entre crochets sont hypothétiques; or, les éléments sont peu certains.

CIRCULAR ELEMENTS

by R.S.Mitrinović

Planet	Epoch	U	Node	Incl.	N	A	Observations
1954 UZ ₂	Nov.16.0	342.433	52.149	6.247	0.24293	2.544	Oct.26, Nov.16
1961 TA	Oct.11.0	30.876	329.043	14.800	0.11904	4.1039	Oct. 7, 11

Equinox: 1950.0

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