

No.	Min. (hel.)	Min. Epoch	I	(O-C)I	(O-C)II	Observer	Ref.
1	2439632.8418	I	0	0.0000	+0.0120	Bi	4
2	39636.8506	II	13.5	-0.0029	+0.0091	"	"
3	39643.8368	I	37	0.0000	+0.0119	"	"
4	40335.7710	II	2365.5	-0.0075	+0.0008	Ca	6
5	40335.9200	I	2366	-0.0071	+0.0012	"	"
6	40338.8920	I	2376	-0.0067	+0.0016	"	"
7	40345.7260	I	2399	-0.0074	+0.0008	"	"
8	40358.8025	I	2443	-0.0061	+0.0021	"	"
9	40358.9500	II	2443.5	-0.0071	+0.0010	"	"
10	40361.7725	I	2453	-0.0077	+0.0005	"	"
11	40361.9200	II	2453.5	-0.0088	-0.0006	"	"
12	41356.5284	II	5800.5	-0.0016	+0.0013	Gd/Gl/Hs	7
13	41392.4840	II	5921.5	-0.0026	+0.0002	Rk/Rn	"
14	41443.4479	I	6093	-0.0020	+0.0005	Bz/Ib	"
15	41450.4280	II	6116.5	-0.0052	-0.0027	"	"
16	41453.3970	II	6126.5	-0.0078	-0.0054	"	"
17	41462.3130	II	6156.5	-0.0067	-0.0043	Rk/Rn	"
18	41465.4360	I	6167	-0.0039	-0.0015	Rk/Hs	"
19	41484.4574	I	6231	-0.0008	+0.0014	Ib/Hs	"
20	42140.5910	I	8439	-0.0009	-0.0021	Ho	2
21	42151.5888	I	8476	+0.0019	+0.0008	"	"
22	42152.4803	I	8479	+0.0019	+0.0007	"	"
23	42152.6294	II	8479.5	+0.0024	+0.0012	"	"
24	42153.3690	I	8482	-0.0009	-0.0021	"	"
25	42153.5203	II	8482.5	+0.0018	+0.0006	"	"
26	42156.4917	II	8492.5	+0.0016	+0.0003	"	"
27	42470.4463	I	8549	+0.0046	+0.0016	"	"
28	42525.4206	I	9734	+0.0039	+0.0007	"	"
29	42525.5640	II	9734.5	-0.0013	-0.0045	"	"
30	42589.4550	II	9949.5	-0.0001	-0.0037	"	"
31	42867.4640	I	10885	+0.0138	+0.0088	"	"
32	42869.5375	I	10892	+0.0072	+0.0022	"	"

Table 1: Pe. minima from JD 40300 to 43300 with residuals against elements (I) and (II).

No.	Min. (hel.)	Min. Epoch	I	(O-C)I	(O-C)III	Observer	Ref.
33	2443655.5230	I	13537	-0.0008	-0.0048	Ho	2
34	43656.5640	II	13450.5	+0.0001	-0.0038	"	"
35	43657.4553	II	13543.5	0.0000	-0.0040	"	"
36	43893.5560	I	14338	+0.0054	+0.0058	"	"
37	43950.6000	I	14530	-0.0057	-0.0043	"	"
38	43974.3775	I	14610	-0.0011	+0.0007	"	"
39	43974.5225	II	14610.5	-0.0047	-0.0029	"	"
40	44013.4550	II	14741.5	-0.0004	+0.0021	Gb	8
41	44372.4211	II	15949.5	-0.0060	+0.0030	Ho	5
42	44372.5710	I	15950	-0.0047	+0.0043	"	"
43	44650.5625	II	16885.5	-0.0083	+0.0058	"	"
44	45165.384 :	I	18618	-0.020 :	+0.004 :	Gb unpubl.	
45	45814.3651	I	20802	-0.0406	-0.0054	"	9
46	46197.4065	I	22091	-0.0410	+0.0011	Gb/li	"
47	46212.4130	II	22141.5	-0.0412	+0.0012	Gb/Be	"
48	46610.4523	I	23481	-0.0504	-0.0007	Wu/Be/Li	"
49	46909.3909	I	24487	-0.0568	-0.0017	Gb/Li present p.	
50	47206.5461	I	25487	-0.0636	-0.0031	GB/Li/Wu	"

Table2: Pe. minima since JD 43300 with residuals against elements (I) and (III). (: uncertain minimum)

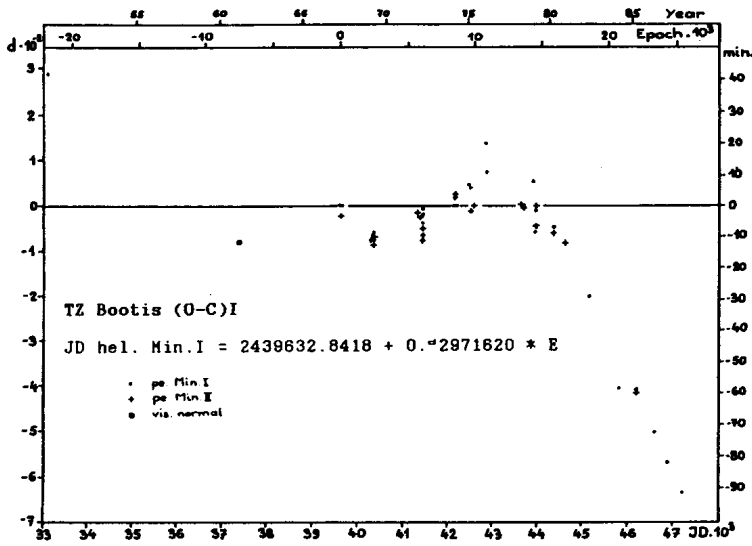


Figure 1. (O-C) diagram, elements I

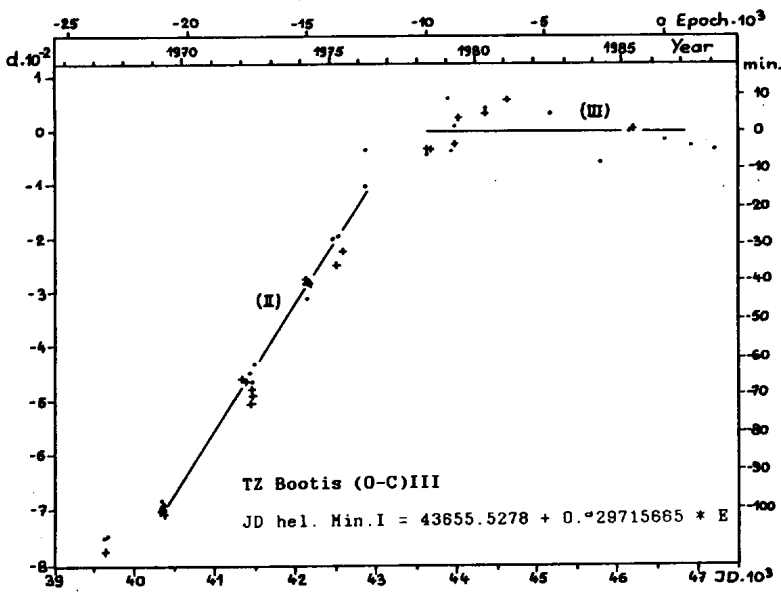


Figure 2. (O-C) diagram, elements III

A marked period shortening of $2.3 \cdot 10^{-5}$ P or 0.6 s has taken place in 1977/78.

The minima of Binnendijk are not included in the calculations of ephemeris (II), because they lie well above the limits of the usual scatter. We presume that another period change has taken place around the year 1968, but this could not be ascertained with the available observational data.

Abbreviations of the observer's names:

Be = F. Betten	Bi = L. Binnendijk	Bz = S. Bozkurt
Ca = R.B. Carr	Gb = R. Gröbel	Gd = N. Güdür
G1 = Ö. Gülmen	Ho = M. Hoffmann	Hs = H. Karacan
Ib = C. Ibanoglu	Li = G. Lichtschlag	Rk = R. Akinci
Rn = R. Pekünlü	Wu = E. Wunder	

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