

KG
11366
v. 738

7

k, k'
 d, d'
1

Date	Jan 14/71	Jan 7	Jan 10	Jan 17
log t	-9.5138	-9.48138	-9.4686	-9.4333
log t	-32.56	-30.47	-29.42	-27.06
log t	-43.25	-40.47	-39.42	-37.06
log t	6.3605	6.3022	6.3258	6.3049
log t	1.30222	1.33394	1.30222	1.30222
log t	1.93827	1.93616	1.93510	1.93271
log t	3.0744	2.8280	2.701	2.325
log t	8.30913	8.34664	8.33500	8.29979
log t	1.20	1.16	1.14	1.18
log t	1.78 40	1.78 44	1.78 46	1.78 52
log t	20 00	20 00	35 00	35 00
log t	349 44	344 03	341 12	334 29
log t	198 40	198 44	213 46	213 52
log t	288 94	4 03	16 12	9 29
log t	5.574	9.7359	8.142	9.340
log t	1.9384	1.9363	1.9352	1.9328
log t	1.3094	1.3078	1.3063	1.3032
log t	.8462	.8441	.8430	.8406
log t	.3298	.3279	.3267	.3236
log t	1.1968	1.1949	1.1937	1.1906
log t	9.9982	9.1767	2.550	.3748
log t	9.6190	9.6169	9.6158	9.6134
log t	8.8774	8.8755	8.8743	8.8732
log t	9.5766	9.5747	9.5735	9.5704
log t	8.3458	8.5243	8.6026	8.7224
log t	.63605	.63399	.63288	.63049
log t	.48745	.48745	.48745	.48745
log t	1.12350	1.12139	1.12033	1.11794
log t	+13.290	+13.224	+13.192	+13.120
log t	+0.306	.0423	.0390	.0239
log t	91.56	91.56	91.56	91.56
log t	9.462	9.579	9.546	9.395
log t	+5.84	+9.08	+9.00	+8.40
log t	.0306	.0423	.0390	.0239
log t	23.37	23.37	23.37	23.37
log t	26.43	27.60	27.27	26.76
log t	+1.54	+1.89	+1.88	+1.61

Date	1870	Nov. 17	Nov. 19	Nov. 27	Dec 10	Dec 13	Dec 14	Dec 18	Dec 22	Dec 26	Dec 31
log A	9.7127	9.7183	9.7203	9.7411	9.7751	9.7829	9.7854	9.7956	9.8056	9.8153	9.8291
A	5161	5192	5252	5570	5959	6066	6161	6246	6392	6536	6816
A-S	4.4539	4.4508	4.4748	4.4490	4.4041	4.3934	4.3899	4.3754	4.3608	4.3464	4.3284
log(A-S)	6.5165	6.5135	6.5079	6.4826	6.4386	6.4280	6.4246	6.4102	6.3957	6.3813	6.3683
log A	1.30222	1.30222	1.30222	1.30222	1.30222	1.30222	1.30222	1.30222	1.30222	1.30222	1.30222
log A cos δ	1.95387	1.95357	1.95301	1.95048	1.94608	1.94502	1.94464	1.94324	1.94179	1.94035	1.93855
log A sin δ	3.2100	3.2300	3.2650	3.3940	3.4640	3.4520	3.4450	3.4050	3.3410	3.2540	3.1110
log tang δ	8.36713	8.36943	8.37389	8.38892	8.40032	8.40018	8.39980	8.39726	8.39231	8.38508	8.37255
δ	178 40	178 39	178 39	178 36	178 34	178 34	178 34	178 34	178 35	178 36	178 39
a	00 00	345 00	30 00	345 00	7 30	7 30	7 30	15 00	15 00	20 00	20 00
ρ	33 01	32 2	30 5	22 23	19 5	7 17		2 36	358 52	358 8	350 26
log a	178 40	163 39	208 39	163 36	186 04	186 04		193 34	193 35	198 36	198 39
log a	33 01	17 02	60 5	7 23	17 35	14 47		17 36	13 52	15 8	10 26
log b	1.0350	1.0240	1.0006	885	5527	4125	3536	9.9686	9.6054	2394	5299
log b	1.95397	1.95348	1.95313	1.95061	1.94627	1.94514	1.94482	1.94338	1.94192	1.94048	1.93867
log h	1.2988	1.2994	1.3006	1.3047	1.3093	1.3099	1.3105	1.3105	1.3106	1.3106	1.3095
log q	8618	86148	86093	85841	85408	85294	85262	85118	84972	84828	84647
log HT	3292	3198	3210	3251	3297	3303		3309	3310	3308	3289
log n	1.162	1.1868	1.1880	1.1921	1.1967	1.1973		1.1979	1.1980	1.1981	1.1969
log bu	0.4758	4.698	4.414	3.293	9.9935	9.8533		9.4094	9.0462	9.6802	9.9702
log q	9.6346	9.6343	9.6337	9.6312	9.6268	9.6257		9.6240	9.6225	9.6211	9.6193
log HT	8.8668	8.8674	8.8686	8.8727	8.8733	8.8779		8.8785	8.8786	8.8783	8.8725
log n	9.5660	9.5806	9.5678	9.5719	9.5765	9.5771		9.5777	9.5778	9.5775	9.5767
log bu	9.0234	9.0124	8.9890	8.9765	8.9411	8.9508		8.9570	8.9538	8.9278	8.9513
log dR	2337	2337	2337	2337	2337	2337		2337	2337	2337	2337
log l	+0.186	0.206	0.191	0.043	0.237	0.132		0.215	0.368	0.272	0.163
log l	3523	2542	3505	1280	2574	2469		2552	3705	2609	2600
- log dR	+1.788	+1.796	+1.782	+1.730	+1.809	+1.766		+1.800	+1.864	+1.823	+1.820
log β											
log l	0.186	0.206	0.191	0.043	0.237	0.132		0.215	0.368	0.272	0.163
log a	9.156	9.156	9.156	9.156	9.156	9.156		9.156	9.156	9.156	9.156
log l	9.342	9.362	9.327	9.199	9.393	9.288		9.371	9.524	9.428	9.319
- log l	+8.594	+8.623	+8.565	+8.316	+8.696	+8.489		+8.65	+8.96	+8.77	8.55
log dR	4.4429	6.5135	6.5079	6.4826	6.4386	6.4280		6.4102	6.3957	6.3813	6.3633
log n	6.5165	4.745	4.745	4.745	4.745	4.745		4.745	4.745	4.745	4.745
log R	1.13910	1.13880	1.13824	1.13871	1.13131	1.13025		1.12847	1.12702	1.12558	1.12378
- log R	+1.3785	+1.3765	+1.3799	+1.3668	+1.353	+1.348		+1.344	+1.3397	+1.3353	+1.3297
n	121										
i = n tan δ					+363						
tan δ	+0.92										
n	+23	+30	+31	+23	+30	+31					
4i	+0.17	+0.22	+0.23	+0.17	+0.21	+0.22					
P.											
i											
-2											
sum											
- bu	-2.991	-2.916	-2.763	-2.130	-985	-713					
- l'a	+8.594	+8.633	+8.565	+8.316	+8.696	+8.489					
g											
sum											
- l'dR	+1.788	+1.796	+1.782	+1.730	+1.809	+1.766					
- bu	+1.05	+1.03	+0.98	+0.95	+0.90	+0.92					
sum											
AT per hour											

The values of K , K' , d , d' have thus far been computed from data taken from the American Ephemeris. Hereafter the Bakhshar will be used upon the foot that the time of observation coincides more nearly with the time for which the star constants and Ephemerides are computed. Since the difference will not usually be over two or three hours it does not seem necessary to take account of the change from mean midnight, especially if both the new stars and zone stars are computed for the same time, viz. Berlin mean midnight.

1879phae-proj. 1742.