Astron. Astrophys. 314, 353 (1996)

ASTRONOMY AND ASTROPHYSICS

Erratum

Long-term dynamical evolution of the brightest bolides

T.J. Jopek[1], P. Farinella[2], Ch. Froeschlé[3], and R. Gonczi[4]

[1] Obserwatorium Astronomiczne Uniwersytetu A.Mickiewicza, Sloneczna 36,Pl-Poznan, Poland
[2] Gruppo di Meccanica Spaziale, Dipartimento di Matematica, Università di Pisa, Via Buonarroti 2, I-56127 Pisa, Italy
[3] Observatoire de la Côte d'Azur, Dept. Cassini, URA CNRS 1362, B.P. 229, F-06304 Nice, France
[4] Observatoire de la Côte d'Azur, Dept. Cerga, URA CNRS 1360, B.P. 229, F-06304 Nice, France

Astron. Astrophys. **302**, 290–300 (1995)

Abstract. We provide corrections to some of the Tables published in Jopek et al. (1995), which contained erroneous data.

Some of the tables published in the above-mentioned paper, which provided the starting orbital data on the bolides, were erroneous. The amended versions are given below. Note, however, that the long-term integrations discussed in the paper were carried out using the correct initial conditions, so they do not need to be redone.

The caption of Table 2 should read: "Rectangular coordinates of 17 bolides in the 1950.0 heliocentric equatorial reference frame. T_0 is the corresponding epoch in the Ephemeris or TDT Julian days. x, y, z are given in AU, $\dot{x}$, $\dot{y}$,$\dot{z}$ in AU/day."

In Table 5 the caption and the rows corresponding to meteors Nos. 15 and 17 should be amended. Table 6 should be replaced as a whole. The correct versions follow:

Table 5. Rectangular coordinates of the 17 bolides at the common epoch JD 2440000.5. Reference frame: barycentric, ecliptic 1950.0 (x, y, z in AU; $\dot{x}$, $\dot{y}$, $\dot{z}$ in AU/day). Note that in the case of bolide No. 17 the integration was carried out without excluding the Earth for 50 days

No	x	y	z	$\dot{x}$	$\dot{y}$	$\dot{z}$
15	-1.45155	-1.270743	-0.36226	0.0034433	-0.0105262	0.0002085
17	-1.15710	-0.854337	-0.04015	0.0127115	-0.0071667	-0.0009074

Table 6. Osculating elements of the 17 bolides at the common epoch JD 2440000.5. Reference frame: heliocentric, ecliptic 1950.0

No	T_p (JD)	q AU	e	Peri. (deg)	Node (deg)	Incl. (deg)
1	2439974.03816	1.012	0.390	355.6	318.0	15.2
2	2440421.62868	0.473	0.759	281.7	252.0	2.3
3	2439511.46533	0.721	0.640	73.0	16.0	12.6
4	2439608.91528	0.900	0.620	321.0	116.8	2.7
5	2439515.82456	0.613	0.710	265.2	258.9	0.8
6	2440128.30453	0.925	0.618	217.0	47.5	24.3
7	2440245.19521	0.596	0.710	86.5	95.0	5.4
8	2439420.18398	0.778	0.674	242.4	16.5	10.4
9	2439755.20837	0.455	0.750	285.9	71.1	1.5
10	2440349.09241	0.934	0.600	35.1	200.6	6.8
11	2440004.38142	0.405	0.430	196.7	42.0	3.4
12	2440029.13740	0.513	0.731	96.7	154.0	8.4
13	2440431.35175	0.909	0.760	221.0	97.2	13.1
14	2440206.68321	1.003	0.671	190.3	141.2	35.1
15	2439794.93298	0.967	0.417	161.0	283.0	12.0
16	2440371.81694	0.987	0.473	177.9	316.9	12.3
17	2440127.91623	0.886	0.410	307.9	17.3	4.9

Send offprint requests to: T.J. Jopek