

NEW STUDIES ON METEORITES FROM HUNGARY: CORRECTIONS IN THE LONDON METEORITE CATALOGUE DATASET. I. Kubovics¹, Sz. Bérczi^{1,3}, Gy. Don², Z. Ditrói-Puskás¹, K. Gál-Sólymos¹, T. Földi⁴, P. Solt², Gy. Záray⁵, ¹Eötvös University, Dept. Petrology - Geochemistry, H-1088 Budapest, Múzeum krt 4/a. Hungary, ²Hungarian Geological Institute, -1146 Budapest, Stefánia u. 14., Hungary, ³Eötvös University, Dept. G. Physics, Cosmic Mat. Sp. Res. Gr. H-1117 Budapest, Pázmány Péter sétány 1/a. Hungary, ⁴FOELDIX, H-1117 Budapest, Irinyi J. u. 36/b. Hungary, ⁵Eötvös University, Dept. A. Chemistry, H-1117 Budapest, Pázmány Péter sétány 1/a. Hungary, (berczisani@ludens.elte.hu)

Introduction: Most of meteorites from Hungary have origin in the XIX. century, on the Carpathian Basin larger country. Because of their extremal richness in pieces (i.e. Mócs, - ca. 3000, Knyahinya, - ca. 1000 pieces) at least in two cases: Knyahinya and Mócs, reambulation of their strewn fields is an actual program. Our paper therefore summarizes these meteorites, give corrections of the data and main characteristics of the meteorites found or fallen in the historical and in the actual Hungary. First we give the list of meteorites according to the London Catalogue, 1985 [1].

LIST OF METEORITES FROM HUNGARY (ACCORDING TO THE LONDON CATALOG, ONE MISSING)

Number	Name (place)	County	Discov. Datum	Classification	Group
1.	BORKUT	Máramaros c.	1852.oct.13.	Chondrite	L5
2.	KABA	Hajdú-Bihar c.	1857.apr.15.	Carb.chondrite	CV3
3.	KAKOWA	Transylvania	1858.may.19.	Chondrite	L6
4.	KISGYŐR	Borsod c.	1901 found	doubtful	-
5.	KISVARSANY	Szabolcs c.	1914.may.24.	Chondrite	L
6.	KNYAHINYA	Ung c.	1866.jun.9.	Chondrite	L5, brecciated
7.	LENARTO	Sáros c.	1814 found	Iron	III A
8.	MAGURA	Árva c.	1840 found	Iron	IA
9.	MALOMHAZA	Sopron c.	1905.may.27.	Chondrite	
10.	MEZŐ-MADARAS	Maros-Torda c. Transylvania	1852.sep.4.	Chondrite	L3, brecciated, xenolithic
11.	MIKE	Somogy c.	1944.may.3.	Chondrite	L
12.	MIKOLAWA? (MIKOLA?)	Szatmár c. ? or Hajdú-Bihar c.	1837.jan.15.	doubtful	-
13.	MISKOLC	Borsod c.	1559 fall	doubtful, stone	-
14.	MÓCS	Kolozs c.	1882.feb.3.	Chondrite	L6
15.	NAGYBOROVE	Liptó c.	1895.may.9.	Chondrite	L5
16.	NAGYDEVENY	Trencsén c.	1837.jul.24.	Chondrite	H5
17.	NAGYVÁZSONY	Veszprém c.	1890 found	Iron	IA
18.	NYÍRABRANY	Hajdú-Bihar c.	1914.jul.17.	Chondrite	LL5
19.	ÓFEHÉRTÓ	Szabolcs c.	1900.jul.25.	Chondrite	L
20.	OFEN-BUDA	Pest-Pilis-Solt	1642.dec.2.	doubtful	-
21.	OHABA	Alsó-Fehér c.	1857.oct.11.	Chondrite	H5
22.	ZSADÁNY	Temes c.	1875.mar.31.	Chondrite	H5
23.	KAPOSFÜRED	Somogy c.	1995.may.7.	Iron	IVA

Kaposfüred: A new iron meteorite fell at 3 hr a.m. on 7th May, in 1995, in Kaposfüred, Somogy County, Hungary. (Geographical coordinates are: 17 ° 46' E longitude and 46 ° 25' N latitude.) The meteorite (coming from NE direction, at high inclination), excavated a crater (depth ca. 1 meter) in the garden of Rev. M. Török. The mass of the meteorite is 2.2 kg, it is stored in Kaposfüred, kaposvár, Hungary. [2]

Zsadány: The site of the fall is an error in the London Catalogue. The event was exactly described. The event happened on 31st March, 1875. The first report, of the Lord Lieutenant of Temes County, reached the Royal Hungarian Society of Natural Sciences on 14th April, and the Society sent two investigators to the site on the same day. They arrived at Zsadány on 16th April. (Reports: Krenner, 1875, Bérczi et al, 2000.) [3]

Kaba, Mócs Field researches were carried out [4] these strewn fields, mainly for ablation spherules. Detailed studies on Kaba (startified texture, chondrules, magnetite/maghemite) were also carried out [5-8].

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