

Table S1: Pre-Iron Age artefacts made of meteoritic iron in Eurasia and northern Africa

55 objects from 22 localities/find complexes, age-sorted

Locality	Object/remarks	Meteorite name(1)	n objects	Age	Referenc e
Wietrzno, Poland	Axe, layered with meteoritic component	Wietrzno-Bobrka	1	~800-450 BC	2,3
Czestochowa-Rakowa, Poland	Two Bracelets	Czestochowa Rakow I and II	2	800-600 BC	2,3
Guo Zhong, Sanmenxia City, Henan, China	Two iron blades, Tomb M2009		2	900-800 BC	4
Mörigen, Lake of Biel, Canton of Bern, Switzerland	Arrowhead	Mörigen	1	900-800 BC	this work
Hsiin Hsien resp. Hsun Hsien, Wei-hui-fu, Henan, China	Two Zhou dynasty axes, Found 1931	Wei-hui-fu (a) and (b)	2	1000 BC	3,5
Bichkin-Buluk, Kalmykia, Russia	Spearhead		1	~1000 BC	6,7
Grave of Tutanchamun, Thebes, Valley of the Kings, Egypt	1 Dagger, 1 pendant, 1 headrest, 16 "chisels"		19	1350 BC	8,9,10,11
Ugarit, Ras Shamra, Syria	Axe with copper socket		1	1400 BC	3
Gaocheng, Hebei, China	Shang dynasty axe		1	1400 BC	12
Mycenae, tomb 58, Greece	Ring No 2866		1	1500-1400 BC	13
Unspecified locality, Greece	Ring No 2337		1	1500-1400 BC	13
Hagia Triada, Crete, Greece	Amulet		1	1600-1400 BC	8
College site, Sidon, Lebanon	Ring, ref. 4653		1	1700-1600 BC	14
Deir al Bahari, Egypt	Thin blade from amulet with silver head		1	2050-2025 BC	8
Umm el Marra, Syria	pendant		1	2300 BC	3
Alaca Höyük, Turkey	Crescent-shaped plaque; pin with gold-plated head		2	2500 BC	8
Troy, Turkey	Macehead or finial from tomb L		1	2600-2400 BC	8,15
Boldyрево, Orenburg Oblast, Russia	Apparently two different iron meteorites/pallasites		2	2872-2476 BC	7
Uruk-Warka, Iraq	Fragment		1	3000-2000 BC	15
Ur, royal cemetery, Iraq	Tool fragment, tomb PG/580 (found 1927)	Ur	1	3000-2000 BC	15
El Gerzeh, Egypt	9 beads from graves 67 and 133	Gerzeh	9	3200 BC	8,16,17
Tepe Sialk, North Iran	3 small iron balls		3	4600-4100 BC	15

References

- 1) Database of the Meteoritical Society: <https://www.lpi.usra.edu/meteor/>
- 2) Kotowiecki, A., 2004. Artifacts in Polish collections made of meteoritic iron. *Meteoritics and Planetary Science* 39, A151-A156.
- 3) Jambon, A., 2017. Bronze Age iron: Meteoritic or not? A chemical strategy. *Journal of Archaeological Science* 88, 47-53.
- 4) Chen, K., Wang, Y., Liu, Y., Mei, J., Jiang, T., 2018. Meteoritic origin and manufacturing process of iron blades in two Bronze Age bimetallic objects from China. *Journal of Cultural Heritage* 30, 45–50.
- 5) Gettens, R.J., Clarke Jr., R.S., Chase, W.T., 1971. Two early Chinese bronze weapons with meteoritic iron blades. *Occas. Pap.* 4, 1e77. Freer Gallery of Art Washington, D.C., 98.
- 6) Shramko, B.A., Fomin, L.D., Solntsev, L.A., 1965. The first find of a meteoritic iron product in eastern Europe (Russian). *Sovjetskaja Archeologija* 4, 199-204.
- 7) Zavyalov, V.I., Terekhova, N.N., 2019. Meteoritic iron artefacts redux. *Archeologické rozhledy* 71, 155-167.
- 8) Bjorkman, J.K., 1973. Meteors and meteorites in the ancient near east. *Meteoritics* 8, 91-130.
- 9) Comelli, D., D'Orazio, M., Folco, L., EL-Halwagy, M., Frizzi, T., Alberti, R., Capogrossi, V., Elnaggar, A., Hassan, H., Nevin, A., Porcelli, F., Rashed, M.G., Valentini, G., 2016. The meteoritic origin of Tutankhamun's iron dagger blade. *Meteoritics and Planetary Science* 51, 1301–1309.
- 10) Ströbele, F., Broschat, K., Köberl, C., Zipfel, J., Hassan, H., Eckmann, C., 2016. The iron objects of Tutankhamun. *METALLA Sonderheft 8 - Archäometrie und Denkmalpflege* 2016, 186-189.

- 11) Broschat, K., Ströbele, F., Koeberl, C., Eckmann, C., Mertah, E., 2018. Himmlisch! Die Eisenobjekte aus dem Grab des Tutanchamun. *Forschungen am Römisch-Germanischen Zentralmuseum*, Band 15 15, 1-59.
- 12) Chung, L., 1979. Studies on the Iron Blade of a Shang Dynasty Bronze "Yüeh-Axe" Unearthed at Kao-Ch'eng, Hopei, China. *Ars Orientalis*, The Smithsonian Institution 11, 259-289
- 13) Varoufakis, G., 1981. Investigation of some Minoan and Mycenaean iron objects, in: Haefner, H. (Ed.), *Frühes Eisen in Europa*. Peter Meili, Schaffhausen, pp. 25-32.
- 14) Jambon, A., Doumet-Serhal, C., 2018. La Transition du fer météoritique au fer terrestre à Sidon (College Site). *Archaeology and History in the Lebanon*, 48, 82-95.
- 15) Buchwald, V.F., 2005. Iron and steel in ancient times. *The Royal Danish Academy of Sciences and Letters*, Copenhagen.
- 16) Johnson, D., Tyladesley, J., Lowe, T., Withers, P.J., Grady, M.M., 2013. Analysis of a prehistoric Egyptian iron bead with implications for the use and perception of meteorite iron in ancient Egypt. *Meteoritics & Planetary Science* 48, 997–1006.
- 17) Rehren, T., Belgya, T., Jambon, A., Káli, G., Kasztovszky, Z., Kis, Z., Kovács, I., Maróti, B., Martinón-Torres, M., Miniaci, G., Pigott, V.C., Radivojevi, M., Rosta, L., Szentmiklósi, L., Szökefalvi-Nagy, Z., 2013. 5,000 years old Egyptian iron beads made from hammered meteoritic iron. *Journal of Archaeological Science* 40, 4785-4792.