

Volume 29
July 2024

METEORITE NEWSLETTER

JAPANESE/BELGIAN COLLECTION
OF ANTARCTIC METEORITES

Antarctic Meteorite Research Center
National Institute of Polar Research (NIPR), Japan

Meteorite Newsletter, Vol 29

Akira Yamaguchi¹, Naoki Shirai², Makoto Kimura¹, Naoya Imae¹, Aiko Nakato¹, Vinciane Debaille³, Steven Goderis⁴, Philippe Claeys⁴, Marleen De Ceukelaire⁵, and Sophie Decrée⁵

¹ Antarctic Meteorite Research Center, National Institute of Polar Research, Tokyo 190-8518,

² Faculty of Science, Kanagawa University, Yokohama, Kanagawa 221-8686,

³ Laboratoire G-Time (Geochemistry & Geophysics: Tephra, Isotopes, Minerals, Earthquakes), Université Libre de Bruxelles, Av. F.D. Roosevelt 50, 1050 Brussels, Belgium,

⁴ Archaeology, Environmental Changes & Geo-Chemistry, Vrije Universiteit Brussel, Pleinlaan 2, B-1050 Brussels, Belgium,

⁵ Institute of Natural Sciences, Rue Vautier 29, 1000 Brussels, Belgium.

Introduction

This newsletter reports the classification of 446 meteorites collected from ice fields near the Yamato and Belgica Mountains by JARE-20, 22, 27, 39, and 41 (Yamato 79, 81, 86, 98, and 00), near the Sør Rondane Mountains by JARE-29, 51, BELARE 2010-2011, JARE-54/BELARE 2012-2013 and BELARE 2019-2020 (Asuka 87, 88, 09, 10, 12 and 19 meteorites). The meteorites include three carbonaceous chondrites (1 CM, 1 CK, 1 CO), twenty-seven achondrites (2 eucrites, 20 diogenites, 1 mesosiderite, 1 shergottite, 1 ureilite, 1 lodranite, 1 howardite), and eight iron meteorites. Also, this newsletter presents revised classifications and new compositional data of 353 meteorites.

Classification

The classification was made with visual inspections of meteorites and petrographic observations of polished thin and thick sections, as well as compositions of major minerals (olivine, pyroxene, and plagioclase) obtained by electron microprobes (JEOL JXA-8800 and 8200 at NIPR). Typical numbers of olivine analysis for equilibrated ordinary chondrites are ~10-20, and those of other meteorites are ~20-30. Bulk major and trace element compositions of iron meteorites were determined by laser ablation inductively coupled mass spectrometry (Cetac LSX-213, Thermo ElementXR). Table 1 presents the results of classifications of stony meteorites. Table 2 presents revised classification and new compositional data (Fa, Fs). Table 3 presents the classification and chemical compositions of iron meteorites.

Sample requests

Requests of Yamato, Belgica, and Asuka 87, 88 meteorites will be reviewed in a timely manner by the curator at NIPR, and those of Asuka 09, 10, 12 and 19 meteorites by scientific members at NIPR, Belgian Institute of Natural Sciences, Vrije Universiteit Brussel, and Université Libre de Bruxelles.

Acknowledgments. We thank T. Ojima and S. Ikadai for sample preparations and technical assistance, M. Shigeoka for preparing polished thin sections, S. Hashimoto for electron microprobe analyses, and J. Grossman for helpful comments.

Table 1. List of meteorites classified in this volume.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-790014	H6	2.880	19.3	18.3-21.9	17.6	16.1-20.8	C		
Y-790015	H6	2.631	19.3	18.6-23.9	17.2	16.3-21.4	C		
Y-790016	H6	2.940	19.4	18.3-22.4	18.3	16.5-23.4	C		
Y-790018	H6	1.620	18.9	17.9-19.9	16.6	15.4-18.6	B		
Y-790022	Dio	1.660			24.6	23.6-25.7			
Y-790023	H5	1.080	18.2	16.8-18.8	16.8	16.0-18.0	B		
Y-790173	H5	2.560	19.3	18.4-21.1	16.0	3.6-20.8	B		
Y-790174	H5	2.040	19.2	18.4-20.1	16.9	15.8-17.9	B		
Y-790202	H5	1.830	19.6	19.0-20.0	17.2	16.6-19.1	B		
Y-790203	H5	2.780	19.4	17.7-22.7	17.0	16.1-18.8	B		
Y-790208	H6	2.300	20.0	19.2-22.2	17.8	17.0-20.4	C		
Y-790209	H6	1.720	19.6	18.8-20.6	17.5	16.9-18.0	C		Shock vein
Y-790210	H6	1.320	19.7	18.7-20.4	17.5	16.7-19.1	C		Shock vein
Y-790211	H6	1.840	19.8	18.4-22.6	17.6	16.9-19.1	C		Shock vein
Y-790213	H5	1.500	19.4	18.6-21.7	16.9	16.4-18.5	B		
Y-792226	H5	2.000	19.0	18.1-19.8	16.9	16.0-18.7	B	A/B	
Y-792361	H6	1.540	18.6	17.6-19.3	16.3	15.8-16.6	B	A/B	
Y-792362	H5	1.360	19.3	18.2-19.9	16.9	15.8-19.2	B	A/B	
Y-792363	H5	1.700	19.1	17.1-21.3	16.9	15.5-19.6	B	B	
Y-792364	H5	1.720	19.0	17.9-20.7	16.9	15.9-17.8	B	B/C	
Y-792365	H5	1.540	19.3	17.9-22.9	16.5	15.1-17.9	B	A/B	
Y-792366	H5	1.260	19.3	18.3-20.5	16.8	15.7-17.4	B	B	
Y-792367	H5	1.980	19.1	18.4-20.2	16.8	15.7-18.4	B	A/B	
Y-792368	H5	1.710	19.2	18.4-20.6	16.9	16.1-18.3	B	A/B	
Y-792369	H5	1.920	18.7	17.8-19.7	16.4	14.3-17.8	B	A	
Y-792370	H5	1.710	18.7	16.9-20.0	16.7	15.5-17.9	B	A	
Y-792371	H5	2.100	18.8	17.4-20.1	16.2	16.2-16.3	B	A/B	
Y-792372	H5	1.600	18.7	17.8-19.6	16.4	15.7-17.5	B	A/B	
Y-792373	H5	1.900	19.2	17.5-20.0	17.0	15.7-19.3	B	B/C	
Y-792374	H5	1.500	19.2	18.5-20.4	16.9	16.1-17.4	B	A	
Y-792375	H5	1.340	19.1	18.5-19.7	16.8	16.2-17.6	B	B	
Y-792376	H5	1.510	18.8	17.8-21.0	16.6	15.6-17.0	B	A/B	
Y-792377	H5	1.370	19.1	18.3-19.6	16.4	15.7-17.0	B	A/B	
Y-792378	H5	1.820	19.3	18.2-20.6	17.5	16.1-19.7	B	A/B	
Y-792379	H5	1.280	19.0	17.6-20.6	17.4	16.5-20.5	B	A/B	
Y-792380	H5	1.870	19.0	18.1-19.7	16.3	15.3-17.3	B	A/B	
Y-792381	H5	1.100	19.2	17.8-20.6	17.2	16.2-18.7	B	A/B	
Y-792382	H5	1.260	19.0	18.2-20.4	17.0	16.1-18.9	B	A/B	
Y-792383	H5	1.560	19.1	18.3-20.1	16.7	15.4-17.8	B	B/C	
Y-792384	H5	1.450	19.1	18.1-20.0	16.8	16.2-17.5	B	A/B	
Y-792385	H5	1.150	18.6	17.0-19.5	16.5	15.5-17.3	B	A/B	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-792386	H5	1.290	19.1	18.0-19.8	16.5	14.7-17.2	B	A	
Y-792387	H5	1.720	19.0	18.1-20.8	16.7	15.3-17.5	B	A/B	
Y-792388	H5	1.520	19.2	18.5-22.7	16.9	16.1-19.2	B	B	
Y-792389	H5	1.190	19.2	18.7-21.2	16.7	16.2-17.2	B	A/B	
Y-792390	H5	1.460	19.3	17.9-20.2	16.8	15.1-18.7	B	C	
Y-792391	H5	1.950	18.6	17.7-19.7	16.4	15.8-17.3	B	A/B	
Y-792392	H5	2.080	19.4	18.9-20.3	17.1	16.7-17.8	B	A/B	
Y-792393	H5	1.960	19.1	18.4-19.5	16.8	15.9-17.9	B	A/B	
Y-792394	H5	1.330	18.7	18.3-19.2	16.5	16.0-17.0	B	A	
Y-792395	H5	1.830	18.5	17.7-19.0	16.4	16.2-16.8	B	B	
Y-792396	H5	1.940	18.6	18.3-19.3	16.5	15.0-17.0	B	A	
Y-792397	H5	1.610	19.1	18.2-20.9	16.8	16.2-17.3	B	A/B	
Y-792399	H5	1.180	18.5	17.8-18.9	16.9	16.4-17.2	B	A/B	
Y-792400	H5	1.380	19.4	18.8-20.1	17.4	16.5-18.7	B	A/B	
Y-792401	H5	1.610	18.5	17.9-18.7	16.5	16.2-16.8	B	A/B	
Y-792402	H5	1.320	18.9	18.3-19.9	16.8	16.3-17.7	B	A/B	
Y-792404	H5	1.300	19.3	18.8-19.8	17.0	16.3-17.6	B	A/B	
Y-792405	H5	1.600	18.8	18.3-19.3	16.6	16.0-17.0	B	A	
Y-792406	H5	1.180	18.9	18.3-19.3	17.0	16.3-17.8	B	B/C	
Y-792407	H5	1.710	19.4	18.7-20.7	17.0	16.5-17.4	B	A/B	
Y-792408	H5	1.360	18.6	18.1-19.0	16.6	16.1-17.2	B	A	
Y-792409	H5	1.490	19.1	18.4-19.9	16.3	16.0-16.8	B	A/B	
Y-792410	H5	1.360	19.1	18.4-19.6	16.9	16.3-17.6	B	A/B	
Y-792411	H6	1.120	18.5	17.8-18.8	16.5	15.8-17.0	B	A	
Y-792412	H5	1.130	18.8	18.5-19.4	16.6	15.6-17.6	B	A	
Y-792413	H5	1.370	18.5	17.5-19.1	16.3	14.9-17.1	B	A/B	
Y-792415	H5	1.320	18.7	17.7-19.5	16.5	15.4-18.8	B	A	
Y-792417	H5	1.330	18.6	17.1-19.4	16.5	14.7-17.7	B	A/B	
Y-792418	H5	1.300	18.4	17.4-19.8	16.5	15.2-18.5	B	A	
Y-792419	H5	1.540	18.7	17.6-19.4	16.6	14.1-19.2	B	A	
Y-792420	H5	1.380	18.6	17.8-19.3	16.4	15.4-17.1	B	A/B	
Y-792421	H5	1.720	18.9	17.5-19.8	16.8	15.6-18.6	B	A	
Y-792422	H5	1.510	18.6	17.9-19.3	16.5	15.8-17.0	B	A	
Y-792423	H5	1.070	19.1	18.3-19.8	17.0	16.4-17.9	B	B	
Y-792424	H5	1.090	19.1	18.4-19.5	17.0	16.4-17.8	B	A/B	
Y-792425	H5	1.740	18.6	18.1-19.1	16.3	15.7-16.8	B	A/B	
Y-792427	H5	1.030	19.0	18.5-20.0	16.4	15.6-16.8	B	A/B	
Y-792428	H5	1.400	18.8	17.6-19.8	16.3	15.6-17.1	B	A/B	
Y-792429	H5	1.350	18.9	18.3-19.9	16.5	16.0-17.0	B	B	
Y-792430	H5	1.240	18.8	17.9-19.6	17.1	16.3-18.8	B	A/B	
Y-792431	H5	1.540	18.8	18.2-19.5	16.6	16.0-17.1	C	B	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-792432	H5	1.060	19.1	18.3-19.8	17.1	16.7-17.4	C	A	
Y-792434	H5	1.050	18.5	17.9-19.1	16.1	14.9-16.7	B	A/B	
Y-792435	H5	1.300	18.5	17.3-19.5	16.5	15.8-17.0	B	A	
Y-792436	H5	1.000	19.1	18.7-19.6	16.6	16.3-16.8	B	A/B	
Y-792438	H5	1.010	18.6	17.4-19.3	16.4	15.9-16.7	B	A	
Y-792441	H5	1.150	18.9	18.2-19.4	17.3	16.3-18.8	B	A/B	
Y-792442	H6	1.290	18.4	18.1-19.0	16.4	15.8-16.9	B	A/B	
Y-792443	H5	1.070	19.1	18.4-19.7	16.5	15.0-17.4	B/C	A	
Y-792444	H5	1.210	19.0	17.9-21.1	16.6	15.5-17.6	B	A/B	
Y-792447	H5	1.190	18.9	18.1-19.6	17.0	15.8-18.6	B/C	A/B	
Y-792449	H5	1.170	19.1	18.8-19.6	16.9	16.4-18.2	C	A	
Y-792455	H5	1.260	19.7	18.0-22.2	16.1	15.7-16.3	C	A/B	
Y-792457	H5	1.220	19.3	17.6-21.2	16.8	15.6-18.0	B	A	
Y-792459	H5	1.090	19.6	18.3-25.8	17.1	17.1-17.1	B	A	
Y-792460	H5	1.050	20.2	18.3-24.3	17.3	16.0-18.2	B/C	B	
Y-792505	H5	11.56	19.9	18.9-22.0	16.8	16.0-18.8	B	C	Fragments
Y-792676	H4	7.880	17.8	2.8-19.8	16.2	14.7-18.1	B	B	
Y-792677	H4	2.220	18.3	15.7-20.6	15.6	5.3-27.5	B	A/B	
Y-792697	H5	1.270	19.2	18.6-19.8	16.9	16.0-18.2	B	A	
Y-792721	H5	2.150	19.0	18.5-19.6	17.3	16.4-19.6	B	A	
Y-792722	H5	1.630	19.6	18.8-20.8	17.1	16.7-17.6	B	A/B	
Y-792723	H5	1.430	19.1	18.2-19.9	17.4	16.2-18.9	B	A	
Y-792725	H5	1.080	19.4	18.8-20.6	16.8	16.1-17.4	B	A/B	
Y-792824	H4	5.320	19.4	18.0-21.0	17.2	15.9-19.7	B	A/B	
Y-792826	H5	3.650	19.5	18.5-22.4	17.5	16.2-20.6	B	A/B	
Y-792827	H6	4.520	19.2	18.4-20.9	17.2	15.9-21.0	C	A/B	
Y-792830	H5	3.480	20.7	19.1-23.0	17.8	16.9-18.5	C	A	
Y-792832	H6	3.200	19.8	17.7-23.1	17.8	16.0-19.9	C	A/B	
Y-792833	H6	3.170	20.0	18.7-25.0	17.8	16.5-20.0	C	B	
Y-792834	H6	3.970	19.1	18.2-20.0	18.3	16.6-23.1	C	B	
Y-792836	H6	3.410	19.1	18.3-20.9	17.0	15.2-18.5	C	A/B	
Y-792838	H5	2.560	19.1	18.4-19.9	17.2	16.4-17.7	B	B/C	
Y-792839	H5	2.440	19.4	18.2-21.2	16.5	15.6-17.4	B	A/B	
Y-792840	H4	1.990	19.0	18.3-19.8	17.2	15.8-21.4	B	A/B	
Y-792841	H5	3.000	19.2	18.2-22.4	17.1	16.5-19.6	B	A/B	
Y-792842	H5	2.310	18.9	18.5-19.3	16.8	16.5-17.1	B	B	
Y-792845	H5	3.170	19.1	18.3-19.7	16.9	16.0-17.7	C	A	
Y-792846	H5	1.900	19.1	18.5-19.8	16.6	15.9-17.2	B	A/B	
Y-792847	H5	2.290	19.0	18.5-19.5	16.9	16.4-17.4	B	A	
Y-792848	H5	1.790	19.4	18.9-20.4	17.0	16.3-17.9	B	A/B	
Y-792849	H5	1.670	19.1	18.6-19.6	17.0	16.6-17.4	B	A/B	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-792850	L6	1.000	25.4	24.7-26.2	21.3	20.6-23.1	A	A	
Y-792852	L5	1.440	24.4	23.6-25.6	20.2	19.4-22.7	A	A/B	
Y-792853	H6	1.090	18.8	17.7-20.2	16.8	15.7-18.1	B	A/B	
Y-792854	H5	1.470	18.9	17.5-20.3	17.0	15.7-19.8	B	A/B	
Y-792855	H6	1.160	18.9	17.5-21.1	16.7	15.5-19.0	B	A/B	
Y-792856	H5	1.310	18.7	17.1-19.5	16.8	15.7-18.7	B	A	
Y-792857	H5	1.230	18.7	17.5-20.0	16.6	15.6-17.4	B	A	
Y-792858	H5	1.100	18.9	18.1-21.2	16.4	15.1-17.5	B	A	
Y-792874	H5	4.220	18.1	17.3-19.8	15.9	15.3-16.5	B	A	
Y-792876	H4	7.020	18.3	15.5-21.2	16.7	14.7-19.4	B	B	
Y-792877	H4	5.410	18.4	17.3-20.2	16.5	15.7-17.7	B	B	
Y-792878	H5	3.810	19.1	18.3-20.0	17.1	16.2-17.6	C	A/B	
Y-792881	H4	5.460	18.5	17.5-20.6	16.6	15.1-18.8	A	A/B	
Y-792882	H5	3.370	18.0	17.0-19.2	16.6	15.4-19.3	B	A	
Y-792884	H4	5.240	18.5	17.3-20.8	17.1	15.7-20.2	B	A/B	
Y-792885	H5	2.940	17.9	17.3-20.2	15.9	15.0-18.5	B	A/B	
Y-792886	L6	1.620	25.3	24.0-26.1	21.1	20.1-21.6	A	A/B	
Y-792887	H5	1.960	17.9	16.7-19.9	16.1	14.4-17.7	B	A	
Y-792888	H5	2.560	17.8	16.0-19.7	16.1	15.0-18.3	B	A/B	
Y-792889	H5	3.290	18.7	17.9-20.0	16.8	15.7-19.5	B	A	
Y-792890	H5	2.740	17.7	16.9-18.6	16.2	15.4-17.3	B	A/B	
Y-792902	H4	7.380	19.1	18.3-22.6	17.1	16.2-18.1	B	A/B	
Y-792908	L6	2.560	25.0	23.8-26.1	20.8	20.2-21.6	B	B	Shock vein
Y-792914	L6	1.460	24.7	24.1-26.3	20.8	19.7-23.2	B	A	
Y-794030	Dio	3.430			24.8	23.7-25.8		A	
Y-794035	Dio	1.790			23.8	23.1-24.5		A	
Y-794037	Dio	7.110			24.7	23.4-25.8		A	
Y-794038	Dio	8.560			24.8	23.5-25.8		A	
Y-794072	Dio	3.340			24.8	23.8-25.7		A	
Y-81081	L4	2.930	23.9	23.0-25.9	20.1	19.3-20.8	B	A/B	
Y-81083	L4	2.130	24.0	23.2-24.8	19.6	18.9-20.4	B	A/B	
Y-81084	L4	1.290	24.0	22.3-25.1	20.2	19.3-21.5	B	A	
Y-81085	L4	2.330	23.5	22.9-24.0	20.1	19.6-20.4	B	B	
Y-81086	L4	1.060	23.9	23.5-24.6	20.3	19.4-22.1	B	A/B	
Y-81087	L4	2.020	23.9	23.1-24.8	20.2	19.7-20.6	B	B	
Y-81089	L4	1.610	24.1	23.3-25.5	20.1	18.9-21.2	B	A	
Y-81091	L4	1.490	23.7	22.9-25.0	20.1	18.8-21.4	B	B	
Y-81096	L4	2.950	23.9	23.1-24.8	20.3	19.7-21.6	B	A/B	
Y-81098	L4	3.040	24.7	22.6-29.7	19.4	19.4-19.4	B	A/B	
Y-81099	L4	2.780	24.1	22.6-25.3	20.3	17.9-23.8	B	B	
Y-81101	L4	6.660	24.3	23.4-25.8	20.8	19.8-23.5	B	B	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-81102	L4	6.520	24.6	23.5-26.1	20.9	20.1-22.8	B	B	
Y-81103	L4	5.480	24.3	23.4-25.2	20.9	19.5-22.6	A	A/B	
Y-81106	L4	6.660	24.4	23.1-27.3	20.6	19.6-22.2	A	A/B	
Y-81107	L4	1.660	23.8	22.2-25.6	19.9	18.4-21.1	B	A/B	
Y-81108	L4	1.390	23.9	22.8-27.5	19.8	18.8-20.9	B	A/B	
Y-81109	L5	3.480	24.3	23.5-25.8	21.3	20.1-24.7	A	A/B	
Y-81111	L4	2.030	23.4	21.9-24.6	20.6	19.5-21.7	B	A/B	
Y-81112	L4	2.640	23.8	22.8-26.3	20.0	18.6-20.6	B	A	
Y-81113	L4	1.240	24.0	22.9-26.0	20.4	18.6-23.5	B	A/B	
Y-81114	L4	1.560	24.3	22.3-29.2	20.7	19.6-23.1	B	A/B	
Y-81115	L4	1.840	23.9	22.3-25.5	20.2	19.0-22.0	B	A/B	
Y-81116	L4	4.780	25.2	23.6-28.7	21.4	20.5-23.7	A	A/B	
Y-86223	H5	2.230	19.2	18.1-22.4	16.8	15.9-18.0	B	A/B	
Y-86652	H4	8.070	19.6	18.6-21.4	17.2	16.2-18.3	B	A/B	
Y-86653	H4	7.000	19.5	19.0-21.0	17.1	15.8-19.2	B	A/B	
Y-86654	H4	3.680	19.5	18.5-23.0	17.1	16.2-17.5	B	A/B	
Y-86655	H4	6.200	19.7	18.9-21.0	18.2	16.4-20.2	B	A/B	
Y-86656	H4	5.900	19.6	18.8-21.0	17.5	15.9-18.3	B	A	
Y-86657	H5	4.070	19.6	18.1-21.6	17.0	16.3-18.0	B	A	
Y-86658	H5	3.580	19.5	17.9-21.6	17.9	16.8-19.4	B	A/B	
Y-86659	H5	3.410	19.4	18.5-20.0	17.6	16.4-21.1	B	A/B	
Y-86660	H5	4.890	19.6	18.5-22.2	17.2	16.4-20.4	B	A/B	
Y-86661	H5	5.320	19.6	18.6-21.7	17.2	16.6-17.5	B	A	
Y-86662	H5	3.170	19.6	18.6-22.2	17.5	16.6-19.6	B	A	
Y-86663	H5	4.080	19.7	18.3-21.5	17.3	15.6-18.6	B	A/B	
Y-86674	L6	4.440	25.4	24.5-26.8	21.4	20.3-23.0	B	B	
Y-86676	H6	3.780	18.7	17.0-20.6	16.9	15.3-20.9	B	A/B	
Y-86679	H4	4.140	19.7	18.4-21.4	18.3	14.8-25.9	B	A	
Y-86680	L6	5.080	25.4	23.3-28.2	21.9	20.8-23.5	B	A	
Y-86681	H5	3.970	18.6	17.8-20.7	16.5	15.8-17.5	B	A	
Y-86682	H5	4.170	18.3	17.5-19.3	16.7	15.2-20.4	B	A/B	
Y-86683	H6	3.860	19.4	18.5-20.3	17.0	16.6-17.6	B	A	
A-87004	H5	0.872	18.4	17.7-18.8	16.4	15.8-17.2	B	A	
A-87005	H5	0.584	18.5	17.8-19.6	16.8	15.5-18.8	B	A	
A-87006	H5	0.470	18.2	17.7-18.8	16.3	15.7-16.8	B	A	
A-87009	L4	0.849	24.5	21.9-26.1	12.6	5.7-20.8	A	A	
A-87011	H5	0.872	19.4	18.4-20.0	17.1	16.0-18.9	B	A	
A-87032	H6	0.480	19.9	18.9-21.1	17.7	17.6-17.8	C	A/B	
A-87033	H6	0.258	19.7	18.6-20.7	17.3	17.1-17.7	B	A/B	
A-87041	H6	0.308	19.9	18.8-20.6	17.5	17.2-18.2	C	A	
A-87042	H6	0.445	19.9	19.4-20.7	17.2	16.6-17.8	C	A	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
A-87043	H6	0.904	19.9	19.4-20.4	17.6	16.9-18.2	C	A/B	
A-87044	H6	0.683	19.9	19.4-20.4	17.1	16.5-17.7	B	A	
A-87045	L5	0.876	25.9	24.7-29.1	20.6	19.5-21.8	B	A/B	
A-87046	H5	0.239	18.4	17.5-19.2	16.2	15.4-16.7	B	A	
A-87050	H6	0.448	19.7	19.1-20.5	17.3	16.9-17.6	C	A	
A-87059	H6	0.887	20.1	19.3-21.2	17.4	17.1-17.8	C	A	
A-87067	H6	0.106	20.0	19.2-20.6	17.6	16.5-18.2	B	A	
A-87096	L6	5.430	25.6	24.8-26.6	21.5	20.6-22.5	B	A	
A-87107	Mes	6.770			37.1	35.7-38.2	A	A/B	
A-87114	H5	1.620	19.3	18.4-20.1	16.8	15.0-18.0	B	A	
A-87117	L6	0.222	25.5	24.9-26.0	21.5	21.2-22.0	A	A	
A-87121	L6	8.604	25.7	24.8-27.4	21.2	20.7-21.9	B	A/B	
A-87348	L6	3.000	25.7	24.6-27.4	21.8	20.6-24.7	B	A/B	Shock vein
A-880016	L6	0.565	25.1	24.6-25.7	21.5	20.8-21.7	B	A	
A-880021	L	0.746	25.6	24.9-26.2	20.7	18.2-21.7	A	A/B	Melt rock
A-880024	L6	0.554	25.8	25.2-27.4	21.8	21.3-22.4	A	A/B	
A-880025	L6	0.333	25.2	24.2-26.3			A	A	
A-880026	L	0.924	25.1	21.4-26.1	18.8	14.6-21.0	A	A	Melt rock
A-880027	L	0.151	25.2	23.1-26.4	17.3	12.5-22.0	A	A	Melt rock
A-880041	L6	0.652	25.1	24.2-26.6	20.9	20.1-21.8	A	A	
A-880051	H6	0.539	19.9	19.5-20.2	17.5	17.1-17.9	B	A	
A-880056	H6	1.840	19.8	18.5-20.7	17.1	15.6-18.8	B	A	
A-880074	H5	1.970	17.9	17.0-18.8	16.3	15.7-18.3	B	A	
A-880687	H5	2.300	19.7	18.9-20.7	17.5	16.8-19.8	A	A/B	
A-880927	L5	0.591	24.0	21.9-25.9	18.1	13.7-19.6	A	A	
A-880937	H5	0.631	19.3	18.4-21.3	16.5	15.5-17.1	B	A	
A-880976	H5	1529.6	19.0	18.1-19.9	16.8	15.9-17.4	C	A/C	
A-880991	H6	3569.0	19.3	18.7-20.2	17.6	16.7-19.3	B	B	
A-881290	H5	0.290	18.8	18.2-20.7	16.6	15.3-17.5	B	A	
A-881322	EL6	1.381			0.3	0.0-0.9	A	A	Fe metal (Si av. = 0.93 wt.%)
A-881370	L3	0.904	22.8	7.0-30.8	12.7	3.1-34.2	B	A	
A-881495	LL5	0.577	28.7	27.7-29.7	23.9	23.4-24.2	B	A	
A-881586	L6	0.409	25.2	24.2-26.1	20.8	20.3-21.6	B	A	
A-881592	EH3	8.377	1.8	1.0-2.6	2.1	0.7-11.2	B	B	Fe metal (Si av. = 2.66 wt.%)
A-881674	LL6	0.650	29.2	28.2-30.1	23.9	23.8-24.0	A	A	
A-881684	L6	0.696	25.3	24.7-26.1	21.1	20.0-21.5	A	A	
A-881977	H5	4343.0	19.0	17.7-22.7	16.5	15.3-20.5	B	A	
Y980035	Sher	1.573	17.0	12.3-20.6	11.5	9.5-17.7		A	
Y980188	EL5	2.203			1.0	0.3-7.2		A	Fe metal (Si av. = 1.88 wt.%)
Y980222	EL5	8.201	1.5	1.5-1.5	1.1	0.2-3.4	B	B	Fe metal (Si av. = 0.49 wt.%)
Y980386	H4	2.806	19.3	18.0-21.9	15.6	4.0-31.6	B	A	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y 980396	L3	2.422	25.6	14.2-28.4	14.8	8.1-23.2	B	A	
Y 980530	L6	0.919	27.1	26.1-27.9	22.7	21.6-25.3	B	A/B	
Y 980536	L4	0.832	26.1	24.3-27.6	16.0	9.3-23.3	B	A	
Y 980550	H6	0.821	19.4	17.6-22.5	18.0	16.6-23.8	B	A	
Y 980604	H5	0.397	20.3	18.9-21.6	17.0	16.2-17.8	C	A	
Y 980607	H5	0.432	20.2	18.2-26.6	17.0	15.1-18.9	B	A	
Y 980672	EH3	1.548			1.8	0.5-8.0	C	A/B	Schreibersite (Si av. = 0.1 wt.%)
Y 980685	EH4	2350.0			1.7	0.6-7.3	B	A	Fe metal (Si av. = 3.02 wt.%)
Y 980899	H5	1.648	19.8	19.2-20.6	17.3	16.5-18.3	A	A/B	
Y 980908	Dio	1.175			24.1	22.9-25.0		A	
Y 980935	L6	1.351	25.5	24.4-27.0	21.8	20.8-23.5	A	A	
Y 980936	L6	1.772	26.0	24.9-28.0	22.0	21.1-24.4	A/B	A	
Y 980941	L6	2.008	25.4	24.4-27.1	21.8	20.9-25.4	A	A	Shock vein
Y 980945	H6	2.862	19.1	18.1-22.2	17.1	15.6-21.4	C	A	
Y 980946	H6	1.588	19.0	18.3-20.4	16.9	15.8-18.7	C	A	
Y 980949	H5	2.804	19.4	18.4-21.3	17.3	16.5-19.6	B	A	
Y 980955	L6	1.149	25.7	24.6-28.5	21.7	20.6-24.4	A	A	
Y 980956	LL3	1.166	12.3	0.7-32.2	12.3	3.5-19.2	B	A	
Y 980957	H5	1.199	19.8	18.4-21.6	17.1	16.2-19.1	B	A/B	
Y 980962	H5	1.281	19.9	18.3-22.6	17.0	15.3-18.2	A	A	
Y 981039	H4	2.055	18.5	17.2-19.5	16.4	12.1-21.7	B	A	
Y 981073	Ure	1.039	6.7	4.4-8.6				A/B	
Y 981137	H4	2.683	18.6	16.9-21.3	17.5	15.4-21.7	B	A	
Y 981147	EH4	2.151			2.4	0.9-7.7	C	A	Fe metal (Si av. = 2.77 wt.%)
Y 981180	H6	2.395	19.1	17.9-19.9	17.3	16.1-18.7	B	A	Shock vein
Y 981251	L4	1.421	23.8	22.6-25.6	17.0	18.5-21.8	B	A	
Y 981589	L4	2.837	26.2	25.5-27.4	15.3	9.8-20.8	A	A	
Y 981614	H6	2.017	18.8	16.4-20.3	17.0	14.7-20.4	C	A	
Y 981671	L4	2.485	25.6	24.8-26.3	14.1	4.9-22.3	B	A	
Y 982422	H4	2.769	17.5	17.0-17.9	14.0	11.0-15.6	B	A	
Y 982427	H4	2.825	17.3	16.9-17.7	15.0	13.0-16.9	B	A	
Y 982496	LL4	2.692	30.0	28.8-31.8	18.6	10.6-24.6	B	A	
Y 982509	LL4	1.395	30.8	29.4-32.1	17.9	11.6-23.1	B	A	
Y 982510	H4	2.271	19.1	18.6-19.4	14.8	12.2-16.9	B	A	
Y 982775	H5	3.232	17.3	16.3-18.2	15.3	14.5-17.2	B	A	
Y 982931	H6	4.527	20.0	18.0-23.9	17.8	16.2-20.2	B	A	
Y 982964	H4	3.159	19.1	18.2-22.2	13.9	9.8-20.6	B	A	
Y 982966	H4	3.292	19.9	15.0-23.0	17.7	15.7-21.2	B	A	
Y 983110	H5	6.148	19.5	17.9-22.8	17.2	16.2-20.2	B	A	
Y 983193	L6	4.583	25.7	24.6-28.1	21.6	20.7-23.0	B	A	
Y 983464	H6	8.312	19.8	18.2-22.2	17.7	16.5-19.2	B	A/B	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y 983997	H5	7.598	18.6	17.8-19.7	16.8	14.6-20.6	B	A	
Y 984078	Dio	3.127			24.7	23.2-29.2		A	
Y 984081	Dio	3.622			24.7	23.7-25.8		A	
Y 984093	Dio	7.996			24.3	23.0-28.0		A	
Y 984097	Dio	6.163			24.5	23.5-28.1		A	
Y 984108	Dio	4.033			24.6	23.9-26.2		A	
Y 984109	Dio	3.154			24.9	23.5-25.8		A	
Y 984112	Dio	3.903			24.7	23.6-26.7		A	
Y 984122	H4	3.424	19.4	18.7-22.4	17.1	16.0-18.9	B	A	
B 9802	LL5	5055.0	27.7	26.4-28.5	22.8	22.2-23.3	A	B/C	
Y 000224	How	3.073	18.2	7.8-24.0	27.1	13.4-63.1		A	
Y 000639	H4	14.60	20.2	19.6-21.0	16.1	10.2-22.3	A	A	
Y 000686	L5	10.28	25.3	23.9-29.7	21.1	20.0-23.7	B	A	
Y 000721	H5	17.07	18.6	17.5-19.2	16.9	15.4-21.6	B	A/B	
Y 000739	H4	4.830	29.2	27.3-31.0	24.0	21.0-28.0	B	A	
Y 000778	H4	3.952	20.6	18.7-22.3	16.6	8.5-22.3	B	A	
Y 001244	Dio	11.83			31.9	30.5-33.0		A	
Y 001449	L6	0.113	25.4	24.8-26.6	21.3	20.2-22.9	A	A	
Y 001508	L3	0.140	24.1	11.8-32.9	17.2	6.2-21.5	B	A	
Y 001543	H6	14.60	20.6	18.7-21.9	17.9	16.9-19.9	A	A	Slightly brecciated
Y 001580	H5	0.252	17.4	15.6-18.8	15.6	15.1-16.0	B	A	
Y 001649	H5	0.149	17.4	16.8-18.5	15.7	14.9-16.5	B	A	
Y 001749	H5	0.603	17.9	17.6-18.6	15.8	14.8-16.7	B	A	Abundant metal
Y 001808	H5	0.323	19.2	18.5-19.8	16.9	16.7-17.0	B	A	
Y 001811	H5	0.238	19.3	18.8-19.8	17.3	16.4-19.2	B	A	
Y 002463	L6	0.126	25.5	24.7-26.1	21.5	21.1-21.8	A	A	
Y 002492	H5	0.096	18.5	17.7-19.0	16.3	15.7-17.5	C	A	
Y 002790	H5	0.159	19.1	18.4-20.2	16.8	16.2-17.4	B	A	
Y 002878	Dio	7.947			23.3	22.4-24.3			
Y 002879	Dio	12.27			23.4	21.9-24.3			
Y 002880	Dio	7.989			23.4	22.7-24.2			
Y 002881	Dio	7.762			23.4	22.7-25			
Y 002883	Dio	3.924			24.2	23.5-25.2			
Y 003055	H6	5943.0	19.5	17.9-21.0	17.1	16.4-17.8	C	A/B	
Y 003084	EL4	2.051			0.7	0.1-2.3	C	A	
Y 003202	LL5	0.989	28.7	27.4-29.4	23.8	23.2-24.3	B	A	
Y 003250	L5	10624.0	25.3	23.3-26.8	21.2	19.8-22.5	A	B/C	
Y 003337	L6	64.98	25.1	23.7-27.0	21.1	20.4-22.6	A	B	
A 09060	H6	0.370	19.6	18.7-21.5	17.2	16.5-18.1	C	A	
A 09061	H6	0.326	19.7	18.8-20.5	17.3	16.1-18.0	C	A/B	
A 09063	H6	0.245	19.7	19.2-20.4	17.3	16.9-17.8	C	B	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
A 09064	H6	0.274	19.3	18.3-19.9	17.3	17.0-17.8	C	A/B	
A 09065	H6	0.360	19.8	19.1-20.9	17.7	16.5-20.8	C	A/B	
A 09066	H6	0.254	19.7	19.2-20.5	17.5	16.7-18.4	C	A	
A 09068	H6	0.350	19.6	18.9-20.4	17.4	16.7-18.8	C	B	
A 09069	H6	0.320	19.7	18.8-20.3	17.5	16.5-17.9	C	A	
A 09070	H6	0.299	19.7	18.7-20.4	17.1	16.2-17.6	C	A/B	
A 09071	H6	0.284	19.8	19.0-20.9	17.3	16.6-18.1	C	A/B	
A 09072	H6	0.327	19.6	19.1-20.9	17.3	16.9-17.9	C	B	
A 09073	H6	0.268	19.9	19.0-20.7	17.1	16.5-18.0	C	A/B	
A 09074	H6	0.231	19.7	19.1-20.1	17.3	16.6-18.2	C	A/B	
A 09075	H6	0.246	19.7	18.7-21.0	17.0	16.6-17.4	C	A/B	
A 09076	H6	0.243	20.1	19.4-20.9	17.4	16.8-18.3	C	A/B	
A 09077	H6	0.210	20.0	19.5-20.9	17.6	17.0-17.9	C	B	
A 09078	H6	0.225	19.8	18.7-20.5	17.8	17.3-18.4	C	B	
A 09079	H6	0.206	20.0	19.4-20.8	17.6	16.7-18.3	C	A/B	
A 09080	H6	0.248	19.8	18.3-20.6	17.6	17.0-18.1	C	A/B	
A 09081	H6	0.252	19.9	19.2-20.4	17.6	17.0-18.4	C	B/C	
A 09082	H6	0.178	20.3	19.7-21.3	17.5	16.2-18.0	C	A/B	
A 09083	H6	0.184	19.9	19.6-20.2	17.6	16.9-18.3	C	A/B	
A 09084	H6	0.180	20.0	19.4-20.6	17.6	16.8-18.1	C	A	
A 09086	H6	0.133	19.9	19.1-20.5	17.5	17.2-18.1	C	A	
A 09087	H6	0.136	20.2	19.3-21.4	17.4	16.6-18.1	C	A	
A 09089	H6	0.170	19.6	18.7-20.5	17.5	17.0-18.2	C	A/B	
A 09090	H6	0.105	19.8	19.5-20.5	17.5	16.8-18.1	C	A	
A 09091	H6	0.117	20.1	19.2-21.1	17.5	17.2-17.8	C	A/B	
A 09171	H6	0.268	20.1	19.6-20.6	17.6	16.9-18.6	B	A/B	
A 09172	LL3	0.244	15.4	0.7-26.4	9.8	1.1-23.8	A	A	
A 09243	H5	0.351	19.3	18.5-19.9	17.1	16.7-17.7	B	A	
A 09327	H6	0.202	19.9	19.4-20.4	17.4	16.5-18.1	C	A	
A 09331	H6	0.154	20.2	19.1-21.2	17.7	17.2-18.3	B	A	
A 09377	L6	2.089	25.6	24.3-26.2	21.8	20.8-22.9	A	A/B	
A 09416	H6	0.215	19.6	18.9-20.2	17.4	16.7-19.2	C	A/B	
A 09435	L6	0.230	25.8	24.9-27.7	21.7	20.6-23.3	B	B/C	
A 09465	L6	0.284	25.5	24.4-27.9	21.7	20.9-23.1	A	B	
A 09466	L6	0.324	26.4	25.4-28.1	21.6	20.9-23.4	A	A	
A 09467	L6	0.934	25.5	24.8-26.5	21.7	20.6-23.1	A	C	
A 09476	H5	0.195	19.4	18.6-21.1	17.5	17.1-18.4	B	A	
A 09499	L6	0.247	25.9	25.2-26.8	21.6	21.4-21.8	A	A/B	
A 09500	L6	0.180	25.6	24.8-27.4	22.1	20.8-26.1	A	A/B	
A 09501	L6	0.332	25.5	24.9-26.8	21.3	21.0-21.5	A	C	
A 09536	H6	0.369	19.8	17.8-20.4	17.4	16.2-18.1	C	A	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
A 09548	L6	0.545	24.9	24.2-25.7	21.0	19.9-21.8	A	C	
A 09559	H5	0.201	19.9	18.6-21.2	16.7	14.7-18.1	B	A	Breccia
A 09569	H5	0.193	19.3	18.1-20.5	16.9	14.3-19.7	B	A	
A 09615	Lod	0.714	13.1	12.7-13.4	14.4	13.3-15.2	B	A	
A 09616	H5	0.322	19.2	18.3-20.2	16.9	16.5-17.5	B	A	
A 09617	H5	0.122	19.5	19.0-20.3	17.3	16.0-21.5	B	C	
A 09675	H5	0.276	18.0	17.4-19.2	15.7	15.2-16.3	B	A/B	
A 10082	L4	3.144	24.3	23.3-25.5	12.3	4.3-20.7	B	A	
A 12390	LL5	248.6	29.7	29.0-30.6	24.0	21.3-25.3	A	B	
A 19001	H5	6.735	17.8	16.8-18.3	16.1	15.7-16.6	B	A/B	
A 19002	L3	18.27	17.8	6.1-36.0	10.0	1.1-32.7	A	A	
A 19004	H5	32.90	19.5	18.4-22.7	17.0	15.9-18.0	B	A/B	
A 19005	L6	11.88	25.3	24.3-26.4	21.5	20.7-23.7	A	A	
A 19006	CO3	232.0	8.9	0.5-41.9	3.4	0.4-8.4	A	A/B	
A 19007	L6	95.46	25.2	23.1-26.1	21.3	20.6-22.1	A	A	
A 19008	L5	112.5	25.1	24.2-26.0	20.9	20.2-21.6	A	A/B	
A 19009	CK6	69.47	29.8	29.0-30.7	23.4	23.4-23.4	A	A	
A 19010	H4	155.6	18.8	17.9-20.0	16.4	15.1-17.5	B	B	
A 19011	Euc	66.03			61.9	59.0-65.3		C	
A 19012	H5	20.85	19.2	18.1-20.0	16.6	15.7-17.2	B	A/B	
A 19014	H5	30.39	19.2	18.6-20.1	17.2	16.4-17.9	B	A	
A 19015	H5	21.32	18.6	16.8-19.9	17.3	15.4-20.7	B	B	
A 19016	H5	14.24	17.9	17.3-19.3	15.9	15.1-16.6	B	B	
A 19017	L5	133.6	25.1	24.0-26.8	20.9	20.3-21.2	B	C	
A 19018	Euc	111.9			60.0	57.0-61.9		B	
A 19019	LL4	145.9	28.6	27.4-29.1	22.0	9.9-23.8	A	C	
A 19020	LL4	71.21	28.8	27.9-29.4	23.7	22.8-24.9	A	C	
A 19021	H5	377.2	18.6	18.0-19.5	16.6	15.9-17.1	A	A	
A 19022	LL5	378.9	28.6	27.4-29.1	23.4	22.5-24.1	B	C	
A 19023	H6	1.793	19.1	18.1-19.5	16.6	16.1-17.4	A	A/B	
A 19024	H5	33.79	19.2	18.4-24.3	16.8	15.9-20.0	B	B	
A 19026	H5	12.68	19.1	18.4-20.0	16.9	15.3-19.1	B	A/B	
A 19027	LL4	14.26	28.9	28.0-29.4	23.7	21.5-24.8	A	C	
A 19028	LL5	142.6	28.5	28.0-29.0	23.2	22.3-24.0	A	C	
A 19029	H5	709.3	18.7	17.8-19.4	16.4	15.5-17.2	A	A	
A 19030	L3	654.8	20.9	0.4-40.7	16.5	1.6-35.6	A	B	
A 19031	LL5	113.2	28.5	27.7-29.1	23.3	22.2-24.1	A	B/C	
A 19032	H5	48.06	19.3	18.3-20.5	16.9	15.9-18.9	B	B	
A 19033	H6	7.152	19.3	18.4-21.6	16.5	15.6-17.3	B	A	
A 19034	LL4	79.81	28.8	28.3-29.4	23.6	22.5-24.4	A	A	
A 19036	L6	67.00	25.1	24.1-27.0	21.2	20.1-21.9	A	A	

Table 1. Continued.

Meteorite	C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
A 19037	L6	197.3	25.0	24.0-26.6	21.1	20.3-22.2	A	A	
A 19038	H5	58.27	19.6	18.2-23.6	16.8	15.9-17.3	B	A/B	
A 19039	L6	270.8	25.0	24.0-25.6	21.0	20.3-23.6	A	A	
A 19040	L6	251.2	24.7	24.1-25.2	21.0	20.3-21.7	A	A	
A 19041	L6	318.3	24.9	24.4-25.6	20.8	19.8-22.1	A	A	
A 19042	L6	28.54	25.3	24.7-25.9	21.0	19.5-21.7	A	A	
A 19043	L6	425.7	24.9	24.3-28.0	20.9	20.3-21.3	A	A/B	
A 19044	L6	230.6	24.9	23.8-26.9	20.9	20.2-22.0	A	A	Shock vein
A 19045	L6	139.3	24.7	23.9-25.5	21.0	20.3-23.7	A	A	Shock vein
A 19046	L6	85.02	25.2	24.0-26.0	21.1	19.7-22.1	A	A	
A 19047	H5	52.87	17.3	15.8-20.5	15.4	15.0-16.3	B	A/B	
A 19048	H5	10.72	19.3	18.2-20.3	16.7	15.6-17.6	A	B	
A 19049	H5	97.52	18.7	17.9-19.4	16.2	15.8-17.4	A	B	
A 19050	L6	7.801	25.0	24.1-26.2	20.8	19.7-21.5	A	A/B	Shock vein
A 19051	L6	32.21	25.0	24.2-27.3	21.9	20.3-26.1	A	A	
A 19052	H3	14.05	15.8	0.8-36.0	17.8	13.1-34.4	A	A/B	
A 19053	L6	26.71	24.7	24.2-25.3	20.9	19.9-21.8	A	A	
A 19054	L6	6.147	25.1	24.2-26.1	21.0	20.2-21.4	A	B/C	
A 19056	L4	156.5	23.6	22.3-26.2	20.1	19.4-21.5	A	A/B	
A 19057	L6	188.0	24.9	24.2-26.1	21.0	20.4-21.9	A	A	
A 19058	H5	54.97	18.3	17.6-19.0	16.4	15.8-17.2	B	B/C	
A 19059	L6	21.16	24.7	24.3-25.6	20.7	19.6-21.3	A	A	
A 19060	L6	19.84	24.6	23.5-26.4	21.1	20.6-22.3	A	A	
A 19061	L6	8.964	24.9	24.2-25.8	21.0	20.6-21.4	A	A	
A 19063	L6	41.51	24.8	23.7-25.6	21.0	20.4-21.6	A	A	
A 19064	L6	15.74	24.7	23.8-25.6	20.7	20.3-21.2	A	B	
A 19065	L6	14.33	24.8	24.0-25.4	20.8	20.4-21.7	A	A	Shock vein
A 19066	CM2	16.48	7.6	0.3-40.5	2.3	0.9-4.5	A	C	

Table 2. Revised classification and new compositional data (Fa, Fs).

Meteorite	C.	Old C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-74005	Dio	Dio	3.690			23.9	23.0-24.7	A		
Y-74017	H6	H6	3.230	19.5	18.6-21.2	17.2	16.2-20.8	B		
Y-74031	Dio	Dio	6.100			23.8	22.3-24.5			
Y-74049	H5	H4	13.12	18.8	17.2-19.8	16.5	15.6-17.1	B	A/B	
Y-74050	H4	H4	18.88	19.7	18.4-23.1	17.5	16.5-21.1	B		Breccia
Y-74051	H5	H4	20.93	19.9	18.5-23.4	17.6	15.7-19.2	B		Fizzed Troilite
Y-74053	H5	H4	88.48	18.8	17.7-19.8	16.9	15.4-17.8	B		
Y-74055	H4	H4	13.04	19.9	18.7-23.9	17.8	16.4-20.9	B		Breccia
Y-74056	H4	H4	19.14	19.6	18.9-21.2	17.7	16.7-21.3	B		Breccia
Y-74061	H5	H4	9.300	18.6	17.8-19.2	16.2	15.3-17.4	B		
Y-74096	Dio	Dio	16.19			24.3	23.3-25.4		A	
Y-74109	Dio	Dio	43.67			24.3	22.9-26.2		A	
Y-74126	Dio	Dio	14.52			24.8	23.5-26.4		A	
Y-74129	L6	L	6.570	24.8	23.8-26.1	20.9	20-21.90	A		
Y-74139	H3	H3	5.100	18.1	11.0-19.7	14.7	5.2-18.2	B		
Y-74140	H3	H3	4.290	17.9	9.7-21.1	15.9	7.7-19.7	B		
Y-74141	H3	H3	9.570	17.9	11.2-28.0	15.7	5.4-21.1	B		
Y-74150	Dio	Dio	33.56			24.6	23.8-25.5		A	
Y-74151	Dio	Dio	49.42			24.7	24.0-25.5		A	
Y-74156	L6	H4	714.7	25.6	24.4-28.1	22.2	21.1-24.7	A		Shock vein
Y-74162	Dio	Dio	3.860			24.0	23.2-25			
Y-74173	L5	L6	17.10	25.0	23.5-26.9	21.4	20.1-24.6	B	A/B	
Y-74177	L6	L6	4.090	25.5	23.7-27.7	22.7	20.5-25.2	B		
Y-74178	L6	L6	7.200	25.6	24.5-28.4	22.4	20.7-25.5	B		
Y-74179	L6	L6	7.430	25.4	24.1-26.7	21.2	20.5-21.5	A		
Y-74180	L6	L6	3.730	25.4	24.3-27.3	21.7	19.8-24.4	B		Shock vein
Y-74181	L6	L6	1.670	24.5	23.7-27.0	20.8	20.2-21.5	B		
Y-74182	L6	L6	10.70	25.7	25.1-26.5	21.4	20.8-21.9	A	A	
Y-74184	L6	L6	2.520	24.7	23.3-25.3	20.9	20.0-22.6	A		
Y-74188	H6	H5	6.820	18.5	17.5-22.7	17.1	16.2-18.3	A		
Y-74194	H5	H5	4.780	18.9	18.4-19.3	16.7	15.3-19.2	B		
Y-74344	Dio	Dio	1.420			23.9	22.1-25.3			
Y-74347	Dio	Dio	7.850			23.9	22.5-25.6			
Y-74350	H6	H4	4.780	19.8	18.4-21.9	17.4	15.6-18.8	B		
Y-74351	H6	H4	3.400	19.8	18.5-21.7	17.6	16.6-19.7	B		
Y-74352	H6	H4	4.920	19.4	18.5-21.0	17.2	16.1-19.4	B		
Y-74368	Dio	Dio	4.130			24.2	23.3-24.9			
Y-74381	H6	H5	3.210	19.6	19.1-20.3	17.8	16.1-23.8	B		Shock vein
Y-74383	H6	H5	3.070	19.7	18.3-23.0	17.7	16.6-19.9	B		
Y-74386	H6	H5	2.050	19.0	17.6-20.5	16.6	16.1-16.9	B		
Y-74387	H6	H5	1.450	19.2	18.6-20.7	16.8	16.2-17.3	B		

Table 2. Continued.

Meteorite	C.	Old C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-74401	H6	H5	1.790	18.6	17.8-19.9	16.7	15.9-19.8	B		Breccia
Y-74402	H6	H5	1.960	19.2	18.0-20.6	16.9	16.0-18.5	B		
Y-74403	H6	H5	1.660	19.0	18.1-23.2	16.6	16.0-17.1	B		
Y-74404	H6	H5	1.160	18.9	17.7-19.6	16.7	16.1-17.6	B		
Y-74405	H6	H5	1.460	18.3	17.7-18.8	16.7	15.6-18.1	B		Large metal nodule
Y-74410	H6	H5	1.690	18.7	17.8-20.6	16.8	15.5-19.5	B		
Y-74411	H6	H5	1.300	18.7	17.8-19.8	16.4	15.4-18.7	B		
Y-74412	H6	H5	1.190	19.3	18.2-20.3	17.2	16.7-17.8	B		
Y-74413	H6	H5	1.050	19.3	18.0-22.7	17.5	16.4-21.8	B		
Y-74420	H6	H6	11.31	20.5	19.2-24.3	19.3	17.0-23.4	B		
Y-74421	H6	H6	13.62	19.9	19.0-21.8	17.8	15.5-21.1	B		
Y-74424	H6	H6	20.99	19.4	18.3-20.1	16.8	15.7-17.8	B		
Y-74425	H6	H6	8.960	19.6	18.8-21.2	17.3	16.1-19.8	A		
Y-74428	H6	H6	2.100	19.8	18.8-22.1	17.7	16.8-19.9	B		
Y-74429	H6	H6	2.380	19.4	18.3-21.3	17.6	16.1-21.1	B		
Y-74430	H6	H6	2.420	19.9	18.4-22.1	17.6	15.8-20.4	B		
Y-74431	H6	H6	2.130	19.9	18.8-22.8	17.5	16.7-20.4	B		
Y-74432	H6	H6	1.500	20.0	18.8-23.4	18.1	16.5-19.9	B		Shock vein
Y-74434	H6	H6	1.140	20.0	18.6-23.1	17.8	16.3-20.3	B		
Y-74448	Dio	Dio	17.70			24.2	23.5-25.9		A	
Y-74460	H6	H6	2.000	18.3	16.8-22.3	16.2	15.7-16.9	B		
Y-74463	H6	H6	19.01	19.3	18.4-20.8	17.2	15.5-20.9	B		
Y-74464	H6	H6	14.10	19.1	18.4-20.9	17.0	15.8-20.5	B		
Y-74465	H6	H6	25.40	18.9	17.8-20	17.4	16.6-19.4	B		
Y-74468	H6	H6	11.92	19.4	18.7-21.0	17.2	16.4-19.3	C		
Y-74469	H6	H6	23.73	19.1	18.3-20.3	17.1	15.5-20.5	B		
Y-74470	H6	H6	11.87	19.3	17.5-21.1	17.0	16.1-18.5	B		
Y-74472	H6	H6	7.030	19.2	18.0-21.4	16.8	15.5-19.1	B		
Y-74474	H6	H6	10.30	19.3	18.7-20.3	17.1	16.3-21.0	B		
Y-74475	H6	H6	10.06	19.5	18.4-21.9	17.9	16.5-19.8	B		
Y-74477	H6	H6	13.10	19.2	18.2-21.0	17.4	16.4-19.5	B		
Y-74478	H6	H6	33.06	19.1	18.5-20.5	16.6	15.8-17.2	B		Large metal nodule
Y-74479	H6	H6	29.82	19.0	18.3-19.6	16.9	16.3-18.4	B		
Y-74480	H6	H6	54.69	18.9	18.1-19.6	16.6	15.3-17.6	B		
Y-74481	H6	H6	26.33	18.8	18.0-19.5	17.5	16.7-19.3	B		
Y-74482	H6	H6	17.82	19.2	18.4-21.2	17.0	16.0-18.7	B		
Y-74483	H6	H6	43.04	18.8	17.2-19.5	17.1	15.8-20.3	B		
Y-74484	H6	H6	32.43	18.7	17.6-19.5	17.1	15.9-21.4	B		
Y-74485	H6	H6	46.66	18.9	18.4-19.4	16.8	15.9-18.1	B		
Y-74486	H6	H6	33.22	19.2	18.1-22.4	17.0	16.3-18.8	B		
Y-74487	H6	H6	5.990	18.6	17.8-20.7	16.9	16.3-18.4	B		

Table 2. Continued.

Meteorite	C.	Old C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-74488	H6	H6	55.27	18.8	17.5-20.8	16.8	16.1-19.0	B		
Y-74489	H6	H6	16.17	19.1	18.6-20.3	17.0	16.0-19.3	B		
Y-74490	H6	H6	11.54	19.2	18.4-20.9	17.0	16.2-19.1	B		
Y-74493	H6	H6	11.54	19.1	18.5-20.0	17.3	16.3-18.5	B		
Y-74496	H6	H6	16.31	19.0	18.4-20.3	17.2	16.0-21.7	B		
Y-74499	H6	H6	13.14	19.1	18.4-20.8	17.2	16.0-22.8	B		
Y-74500	H6	H6	19.07	19.4	18.2-22.9	17.0	16.4-18.9	B		
Y-74501	H6	H6	33.74	19.3	18.1-21.6	17.3	16.2-19.5	B		
Y-74502	H6	H6	20.41	19.4	18.3-22.8	17.3	16.2-20.4	B		
Y-74504	H6	H6	2.850	18.9	17.9-20.4	16.7	15.6-21.1	B		
Y-74505	H6	H6	7.450	18.5	17.4-20.3	16.7	15.8-18.1	B		
Y-74506	H6	H6	16.51	19.2	18.4-20.8	17.2	15.9-19.9	B		
Y-74508	H6	H6	6.550	19.3	18.3-21.2	17.4	16.2-20.5	B		
Y-74509	H6	H6	7.960	18.9	17.6-22.3	17.0	16.1-19.7	B		
Y-74510	H6	H6	11.37	19.1	18.6-21.9	17.6	16.6-21.9	B		
Y-74511	H6	H6	34.59	19.1	18.1-21.0	17.1	16.3-18.6	B		
Y-74512	H6	H6	11.93	19.2	18.1-20.7	17.5	16.0-19.9	B		
Y-74513	H6	H6	9.910	19.3	18.3-23.8	17.1	16.1-19.4	B		
Y-74514	H6	H6	12.85	19.1	18.2-21.3	16.9	15.8-17.8	B		
Y-74515	H6	H6	6.270	19.4	18.4-22.7	17.4	16.1-20.4	B		
Y-74516	H6	H6	3.130	19.1	18.4-21.0	17.0	15.8-22.2	B		Shock vein
Y-74517	H6	H6	8.07	19.4	18.2-22.5	17.5	16.3-21.8	B		
Y-74518	H6	H6	1.610	18.9	18.0-19.8	16.4	15.5-17.5	B		
Y-74519	H6	H6	6.800	19.2	18.5-22.5	17.3	16.4-22.3	B		
Y-74521	H6	H6	8.290	19.0	18.2-20.4	17.0	15.9-19.1	B		
Y-74522	H6	H6	13.50	18.9	18.1-20.5	16.8	15.8-18.0	B		
Y-74523	H6	H6	35.75	18.9	18.2-19.5	17.0	15.7-20.2	B		
Y-74524	H6	H6	14.74	19.1	17.8-20.1	17.0	15.9-19.5	B		
Y-74525	H6	H6	10.87	19.3	18.3-22.9	16.9	15.7-17.8	â		
Y-74526	H6	H6	9.190	19.4	18.6-20.6	17.1	16.5-19.8	B		
Y-74527	H6	H6	18.49	19.0	18.0-20.1	16.8	15.3-18.4	C		
Y-74528	H6	H6	6.740	19.5	18.4-21.8	17.3	16.1-19.9	B		
Y-74529	H6	H6	13.01	19.1	18.1-20.6	17.0	16.0-20.1	B		
Y-74530	H6	H6	14.61	19.3	18.3-23.2	17.4	15.8-21.7	B		
Y-74531	H6	H6	10.75	19.0	18.2-19.6	17.0	16.3-20.1	B		
Y-74532	H6	H6	6.920	19.1	18.4-21.2	17.0	16.5-17.6	C		
Y-74533	H6	H6	9.030	19.1	18.2-19.9	16.9	16.4-17.4	B		
Y-74534	H6	H6	7.610	19.2	18.6-20.6	17.0	16.2-18.7	B		
Y-74536	H6	H6	1.660	18.4	16.9-19.0	16.3	15.4-17.1	B		
Y-74537	H5	H6	8.900	18.4	17.4-18.9	16.1	15.3-16.8	B		
Y-74538	H5	H6	9.540	18.3	17.2-19.3	16.3	15.6-16.9	B		

Table 2. Continued.

Meteorite	C.	Old C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-74540	H6	H6	18.65	19.1	18.3-21.8	16.9	15.8-19.2	B		
Y-74541	H6	H6	21.83	18.7	17.4-19.9	16.9	15.6-19.0	B		
Y-74542	H6	H6	14.85	19.2	18.2-22.4	17.2	16.1-19.0	B		
Y-74543	H6	H6	16.47	19.0	18.3-20.9	16.9	16.1-19.6	B		
Y-74544	H6	H6	9.380	19.1	18.0-20.2	17.0	16.4-17.7	B		
Y-74545	H6	H6	26.65	18.9	18.1-19.7	16.8	15.5-17.7	B		
Y-74546	Dio	Dio	7.390			24.0	22.8-26.9			
Y-74548	H6	H6	25.74	19.2	18.3-20.4	16.9	15.6-20.7	B		
Y-74549	H6	H6	8.190	19.1	18.4-21.0	17.2	16.2-22.5	B		
Y-74551	H6	H6	20.46	18.8	18.2-19.9	16.9	15.4-19.4	B		
Y-74552	H6	H6	11.81	19.0	18.1-20.8	16.7	16.2-17.0	B		
Y-74553	H6	H6	10.98	18.9	18.3-19.7	17.0	16.5-18.7	B		
Y-74554	H6	H6	5.080	19.1	18.4-19.8	16.9	16.4-17.7	B		
Y-74555	H6	H6	9.200	19.2	18.0-21.3	17.1	16.0-19.0	C		
Y-74556	H6	H6	14.27	18.8	18.2-21.0	17.0	15.5-19.9	B		
Y-74557	H6	H6	12.05	18.8	18.4-19.8	17.0	15.5-18.7	B		
Y-74558	H6	H6	9.620	19.1	18.6-19.6	17.3	16.1-19.9	C		
Y-74559	H6	H6	4.840	19.7	18.6-23.8	17.1	16.0-20.8	B		
Y-74560	H6	H6	7.820	19.1	18.3-19.6	17.0	15.9-19.1	B		
Y-74561	H6	H6	6.000	19.1	18.4-20.4	17.3	16.3-19.3	B		
Y-74562	H6	H6	5.850	19.3	18.0-22.5	17.0	15.7-18.6	B		
Y-74563	H6	H6	3.000	19.2	18.2-20.5	17.1	16.1-19.5	B		
Y-74564	H6	H6	8.510	19.2	18.3-20.2	17.3	15.7-20.3	B		
Y-74565	H6	H6	3.920	19.7	18.1-26.4	17.4	16.5-19.3	B		
Y-74566	H6	H6	11.40	19.4	18.2-23.4	17.0	16.2-21.0	B		
Y-74567	H6	H6	6.890	19.1	18.3-20.2	17.1	16.2-19.3	B		
Y-74568	H6	H6	4.120	19.5	18.5-22.0	17.7	16.6-20.8	B		
Y-74570	H6	H6	3.360	19.1	18.8-20.0	17.1	16.0-20.0	C		
Y-74571	H6	H6	6.610	19.2	17.9-21.8	16.8	15.7-18.9	B		
Y-74572	H6	H6	1.300	18.5	17.0-20.9	16.4	15.4-19.8	B		
Y-74573	H6	H6	9.030	19.2	17.8-23.5	17.5	16.3-19.9	B		
Y-74574	H6	H6	4.603	19.0	18.5-19.7	17.2	16.3-20.5	B		
Y-74575	H6	H6	6.480	19.1	18.3-21.3	17.2	16.2-20.1	B		
Y-74576	H6	H6	7.760	19.1	18.4-21.5	17.1	16.2-18.9	B		
Y-74577	H6	H6	14.25	19.0	17.1-21.2	16.6	16.1-17.5	B		
Y-74578	H6	H6	3.140	19.0	17.9-20.2	16.9	16.0-19.1	B		
Y-74579	H6	H6	7.960	19.4	18.4-20.6	17.4	16.0-20.5	B		
Y-74581	H6	H6	11.50	19.3	18.2-21.5	16.9	15.8-18.4	B		
Y-74582	H6	H6	7.850	19.4	18.1-22.8	17.8	16.2-20.3	A/B		
Y-74583	H6	H6	12.97	19.5	18.4-22.6	16.6	16.0-18.0	B		
Y-74584	H6	H6	9.820	19.1	18.1-20.4	16.9	16.4-17.8	B/C		

Table 2. Continued.

Meteorite	C.	Old C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-74585	H6	H6	8.730	19.5	18.1-22.7	17.0	15.8-20	B/C		
Y-74586	H6	H6	8.180	19.4	18.1-23.9	16.8	15.6-18.0	B		
Y-74587	H6	H6	9.960	19.1	18.1-21.7	17.6	15.9-21.8	B/C		
Y-74588	H6	H6	8.330	19.2	18.3-22.9	17.1	15.9-19.2	B		
Y-74589	H6	H6	13.44	19.1	18.1-22.0	17.4	16.0-24.3	B		
Y-74590	H6	H6	4.630	19.2	18.1-21.0	16.8	16.4-17.3	B		
Y-74591	H6	H6	14.11	19.3	18.1-22.3	17.5	16.1-20.7	B		
Y-74592	H6	H6	5.570	19.3	18.3-23.5	16.9	15.9-20.0	B/C		
Y-74593	H6	H6	21.77	18.9	17.8-20.5	16.7	16.3-17.5	B		
Y-74594	H6	H6	1.692	18.3	17.5-19.4	16.5	15.3-18.5	B		
Y-74595	H6	H6	7.490	19.2	17.9-21.5	17.0	16.2-18.6	B		
Y-74596	H6	H6	1.400	19.6	18.8-21.6	17.5	16.2-20.9	B		
Y-74597	H6	H6	10.18	19.2	18.4-22.2	17.2	15.9-19.8	B		
Y-74598	H6	H6	7.000	18.9	17.5-23.2	16.7	16.1-17.9	B		
Y-74599	H6	H6	4.210	18.9	18.1-19.9	17.3	16.4-20.5	B		
Y-74601	H6	H6	3.000	19.2	18.4-20.8	17.4	16.5-19.8	B		
Y-74602	H6	H6	5.260	18.6	18.1-19.8	16.9	15.3-19.5	B		Large metal nodule
Y-74606	Dio	Dio	2.950			24.0	23.1-25.2			
Y-74614	H6	H6	6.920	18.1	16.8-20.1	16.2	15.1-18.9	B		
Y-74615	H6	H6	6.140	18.5	17.2-22	16.2	15.2-19.3	C		
Y-74616	H6	H6	8.120	18.7	18.1-19.7	16.5	15.4-18.4	C		
Y-74617	H6	H6	8.370	18.7	18.2-21.4	17.0	16.1-20.3	B		
Y-74618	H6	H6	7.030	18.7	18.2-19.3	17.1	15.4-23.1	B		
Y-74619	H6	H6	6.010	18.8	18.1-20.0	16.7	16.0-19.2	B		Large metal nodule
Y-74621	H6	H6	4.490	19.3	17.9-21.3	17.0	16.3-19.0	B		
Y-74622	H6	H6	3.220	19.3	18.3-21.5	17.3	15.8-19.4	B		
Y-74623	H6	H6	5.450	18.5	17.3-19.8	16.2	15.3-16.7	B		
Y-74625	H6	H6	4.170	19.0	18.3-20.3	17.2	16.0-19.5	B		
Y-74626	H6	H6	3.590	19.0	18.5-20.8	17.3	16.1-19.5	B		
Y-74628	H6	H6	5.310	19.0	18.3-21.4	16.6	16.1-17.3	B		Large metal nodule
Y-74629	H6	H6	6.200	18.9	18.0-19.7	16.6	15.7-17.7	B		
Y-74630	H6	H6	3.970	19.3	18.4-21.8	17.1	16.4-18.1	B		
Y-74631	H6	H6	3.230	19.3	17.8-21.3	17.0	15.9-19.0	B		
Y-74632	H6	H6	3.020	19.2	18.5-20.8	17.9	16.6-22.2	A		
Y-74634	H6	H6	5.220	18.6	17.9-19.8	16.7	16.0-17.4	B		
Y-74635	H6	H6	4.270	19.1	18.0-20.1	17.0	16.0-18.7	B/C		
Y-74636	H6	H6	1.220	19.1	17.6-21.8	16.6	15.9-17.5	B		
Y-74641	CM2	C2	4.590	8.8	0.3-63.8	13.3	0.9-49.8			
Y-75001	Dio	Dio	3.230			24.7	23.7-25.4			
Y-75007	Dio	Dio	2.630			23.8	23.0-24.6			
Y-75014	Dio	Dio	2.990			23.9	23.2-25.0			

Table 2. Continued.

Meteorite	C.	Old C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-75027	L6	H3	0.170	26.1	24.7-27.2	22.4	20.8-24.6	A		
Y-75034	L6	L6	0.340	26.0	25.0-26.9	21.3	20.3-22.2	A		
Y-75035	L6	L6	1.120	25.2	22.8-29.1	20.9	19.3-22.7	A		
Y-75036	L6	L6	0.440	25.8	25.1-26.3	22.2	20.9-24.5	A		
Y-75037	L6	L6	0.980	25.8	24.8-27.2	21.7	21.1-22.1	A		
Y-75039	H6	L6	0.960	19.9	18.9-20.6	17.5	16.8-19.0	B		
Y-75040	L6	L6	0.330	25.4	24.3-26.2	21.7	21.3-22.0	A		
Y-75041	L6	L6	1.290	25.6	23.9-28.8	21.7	21.3-22.4	A		Shock vein
Y-75042	H5	L6	0.270	19.0	18.3-19.8	16.6	15.2-18.0	B		
Y-75043	L6	L6	1.120	25.3	23.7-28.5	20.9	19.7-22.3	B		
Y-75044	L6	L6	1.230	25.0	23.6-27.5	21.1	20.1-22.1	A		Shock vein
Y-75046	L6	L6	3.260	25.8	24.6-27.3	21.7	21.1-23.4	A		
Y-75048	L6	L6	2.540	25.0	22.5-27.3	20.8	19.9-23.5	B		
Y-75049	L6	L6	2.410	25.3	23.5-26.9	21.4	19.5-24.3	A		Shock vein
Y-75050	L6	L6	2.460	25.3	24.2-26.1	21.4	20.6-23.9	B		Shock vein
Y-75052	L6	L6	3.300	25.9	24.9-28.5	22.1	20.8-24.4	B		Shock vein
Y-75053	L6	L6	0.840	26.1	24.9-27.4	21.9	21.1-22.9	A		
Y-75054	L6	L6	0.880	25.9	24.8-26.9	21.6	20.7-22.2	A		Shock vein
Y-75055	L6	L6	3.300	25.8	24.6-28.2	21.7	21.1-24.4	A		Shock vein
Y-75057	L6	L6	3.060	25.9	24.5-27.1	21.7	20.9-23.8	B		Shock vein
Y-75058	L6	L6	2.320	25.8	24.2-27.8	21.7	21.0-23.6	A		Shock vein
Y-75059	L6	L6	1.380	25.9	24.4-29.9	21.4	20.4-22.5	A		
Y-75061	L6	L6	2.890	25.7	24.8-27.4	21.6	20.5-24.9	A		
Y-75062	L6	L6	2.890	25.2	24.7-25.5	21.2	20.4-22	B		Shock vein
Y-75063	L6	L6	2.460	25.8	24.7-29.1	21.8	20.8-24.4	A		Shock vein
Y-75064	L6	L6	3.260	25.8	24.8-27.4	21.6	20.9-22.7	A		Shock vein
Y-75065	H5	L6	4.370	18.9	18.2-20.2	16.7	15.7-17.1	C		
Y-75066	L6	L6	2.750	25.8	24.9-28.2	21.8	21.0-24.3	A		
Y-75067	L6	L6	1.210	26.1	25.0-28.9	21.9	21.3-24.1	A		
Y-75068	L6	L6	2.800	26.1	24.0-28.7	22.1	21.1-24.9	A		Shock vein
Y-75072	L6	L6	4.660	25.9	24.0-28.3	21.7	20.6-24.1	A		
Y-75073	L6	L6	1.380	26.2	25.0-29.5	21.6	20.9-23.1	A		Shock vein
Y-75074	L6	L6	1.300	25.7	24.2-27.8	21.4	20.0-22.4	A		Shock vein
Y-75075	L6	L6	1.520	25.8	24.6-27.4	21.7	20.9-23.8	A		Shock vein
Y-75076	L6	L6	1.150	25.9	24.3-28.9	22.1	21.3-24.1	B		
Y-75077	L6	L6	1.670	26.0	25.1-28.6	22.2	20.5-28.6	A		Shock vein
Y-75078	L6	L6	1.390	26.2	24.8-28.1	22.8	21.8-24.6	A		
Y-75079	L6	L6	1.400	26.0	25.2-27.3	22.4	20.6-25.8	B		
Y-75080	L6	L6	1.440	26.5	24.9-30.1	22.6	20.8-27.0	A		Shock vein
Y-75081	L6	L6	1.090	26.0	25.2-27.6	22.5	20.9-26.2	B		Shock vein
Y-75082	L6	L6	2.980	26.1	25.4-28.7	21.8	20.5-23.7	A		Shock vein

Table 2. Continued.

Meteorite	C.	Old C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-75083	L6	L6	1.850	26.1	25.2-28	21.7	20.5-23.1	B		Shock vein
Y-75084	L6	L6	0.160	25.9	25.1-27.0	21.4	20.5-22.2	A		
Y-75085	L6	L6	0.160	25.8	24.9-28.7	21.1	20.5-21.9	A		Shock vein
Y-75086	L6	L6	0.130	25.7	24.7-27.2	22.0	21.6-23.0	A		
Y-75087	L6	L6	0.260	25.5	24.8-26.1	21.8	20.9-24.4	A		Shock vein
Y-75088	L6	L6	0.070	25.8	24.8-26.6	22.1	21.7-22.6	A		
Y-75089	L6	L6	0.140	25.4	24.6-26.9	21.7	21.4-22.2	A		Shock vein
Y-75090	L6	L6	0.120	25.7	25.1-26.7	21.6	20.9-22.7	A		
Y-75147	L6	L6	2.190	25.4	23.8-27.3	21.5	21.0-22.1	A		
Y-75149	L6	L6	2.620	25.7	23.5-28.4	22.3	21.0-24.4	A		Shock vein
Y-75151	L6	L6	3.740	24.9	23.8-26.1	21.3	20.5-23.4	A		
Y-75152	L6	L6	3.880	25.5	24.0-27.0	22.1	21.0-24.7	A		Shock vein
Y-75153	L6	L6	1.950	25.4	23.7-26.8	22.1	21.0-26.3	A		
Y-75154	L6	L6	1.810	25.5	24.5-27.7	21.3	20.2-22.0	A		
Y-75155	L6	L6	3.290	25.5	23.1-28.4	22.0	20.9-24.6	A		
Y-75157	L6	L6	3.695	25.4	24.6-26.9	21.8	21.2-22.6	A		
Y-75161	L6	L6	2.980	25.7	24.5-27.8	22.6	21.4-24.6	A		
Y-75166	L6	L6	4.780	25.4	24.4-26.4	21.8	20.4-23.8	A		Shock vein
Y-75169	L6	L6	3.490	25.3	24.4-26.1	21.9	20.6-24.3	A		
Y-75177	L6	L6	3.660	25.4	22.3-28.6	21.8	20.7-23.5	A		
Y-75181	L6	L6	2.180	25.5	24.0-27.4	22.1	20.1-24.9	A		
Y-75184	L6	L6	1.940	25.2	24.4-26.4	21.3	20.4-22.5	A		
Y-75190	L6	L6	2.100	24.7	24.1-25.5	21.4	19.8-23.2	A		
Y-75193	L6	L6	4.510	25.4	24.4-26.5	21.6	20.5-22.7	A		
Y-75196	L6	L6	2.250	25.4	24.0-27.0	21.6	20.3-23.5	A		
Y-75200	L6	L6	2.150	25.6	24.6-27.1	21.6	20.4-24.6	A		
Y-75201	L6	L6	4.440	25.2	23.6-26.1	21.4	20.7-22.5	A		Shock vein
Y-75204	L6	L6	3.480	25.2	24.1-26.4	21.6	19.6-24.8	A		Shock vein
Y-75205	L6	L6	4.220	25.4	24.1-27.3	21.4	20.7-23.1	A		Shock vein
Y-75207	L6	L6	1.160	25.7	24.4-27.1	21.9	20.3-23.8	A		
Y-75208	L6	L6	1.090	25.5	24.7-27.4	22.0	21.0-22.6	A		
Y-75209	L6	L6	1.090	25.4	23.4-27.9	21.9	20.5-24.5	A		
Y-75210	L6	L6	1.010	25.3	23.6-26.1	21.5	21.2-22.1	A		
Y-75211	L6	L6	0.840	25.1	24.2-25.5	21.3	20.0-21.8	A		
Y-75212	L6	L6	1.130	25.5	24.0-27.2	21.5	21.1-22.3	A		
Y-75213	L6	L6	0.870	25.1	23.7-26.0	21.5	20.8-22.8	A		
Y-75214	L6	L6	1.100	24.9	23.1-27.6	21.2	20.3-23.4	A		
Y-75215	L6	L6	1.150	24.7	23.8-27.2	21.1	19.5-23.8	A		
Y-75216	L6	L6	0.680	25.2	24.2-25.8	20.9	19.8-21.5	A		
Y-75217	L6	L6	2.090	24.9	24.0-26.6	20.9	20.2-21.9	A		
Y-75218	L6	L6	2.390	24.6	23.8-25.9	20.9	20.3-21.8	A		

Table 2. Continued.

Meteorite	C.	Old C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-75219	L6	L6	3.480	25.1	23.9-26.2	21.7	20.7-22.7	A		
Y-75220	L6	L6	2.720	24.9	23.5-26.4	21.0	20.2-22.2	A		
Y-75221	L6	L6	2.910	24.7	23.7-26.4	20.5	19.0-21.2	A		
Y-75222	L6	L6	2.310	25.1	24.1-27.5	21.3	20.2-25.9	A		
Y-75223	L6	L6	0.970	25.2	23.8-27.8	21.0	20.2-21.6	A		
Y-75224	L6	L6	2.740	25.0	24.3-25.9	21.3	20.3-24.5	A		
Y-75225	L6	L6	1.810	25.5	24.5-27.3	21.8	20.8-24.0	A		
Y-75226	L6	L6	2.010	25.8	24.8-27.3	21.9	20.9-23.1	B		
Y-75227	L6	L6	1.700	25.6	22.2-27.5	21.5	20.6-22.0	A		
Y-75228	L6	L6	1.310	25.4	24.7-26.2	21.6	20.6-23.7	A		Shock vein
Y-75229	L6	L6	2.980	25.5	24.2-27.6	21.9	20.7-25.6	A		
Y-75230	L6	L6	1.260	25.5	24.6-26.9	21.3	20.2-22.7	A		
Y-75231	L6	L6	1.900	25.5	24.3-27.5	21.5	21.1-22.2	A		
Y-75232	L6	L6	2.410	25.3	24.3-27.3	21.2	19.0-23.0	B		
Y-75233	L6	L6	1.830	25.3	23.3-27.2	21.3	20.6-22.0	B		
Y-75234	L6	L6	1.560	25.5	24.7-26.6	21.8	20.8-25.5	B		
Y-75235	L6	L6	1.730	25.5	24.5-26.7	22.1	20.8-24.6	B		
Y-75236	L6	L6	2.310	25.4	24.6-27.7	21.4	19.4-25.4	B		
Y-75237	L6	L6	0.420	25.4	24.9-26.7	21.2	20.4-22.4	A		
Y-75238	L6	L6	0.510	25.0	24.2-25.7	21.3	20.5-22.7	A		
Y-75239	L6	L6	0.470	25.0	24.1-25.6	20.9	20.1-21.9	A		
Y-75240	L6	L6	0.450	25.3	24.0-26.9	21.5	20.4-24.0	A		
Y-75241	L6	L6	0.630	25.1	23.2-25.8	22.6	20.6-26.9	A		
Y-75242	L6	L6	0.740	25.2	24.7-25.7	21.8	20.1-23.5	A		
Y-75243	L6	L6	0.650	25.1	24.2-26.0	21.2	20.4-22.7	A		
Y-75244	L6	L6	0.390	25.3	24.4-27.1	20.8	19.9-21.7	A		
Y-75245	L6	L6	0.530	25.0	23.9-27.4	21.1	20.1-22.0	A		
Y-75246	L6	L6	0.430	25.4	24.5-26.5	21.2	20.3-21.9	A		
Y-75247	L6	L6	0.130	25.1	24.0-26.2	21.2	20.7-21.8	A		
Y-75248	L6	L6	0.160	25.2	24.3-26.2	21.7	20.8-23.3	A		
Y-75249	L6	L6	0.280	25.0	24.3-25.5	21.6	20.7-24.4	A		
Y-75250	L6	L6	0.150	25.6	24.4-27.4	21.4	21.2-21.7	A		
Y-75251	L6	L6	0.310	25.3	24.5-26.2	21.3	20.3-22.0	A		Shock vein
Y-75252	L6	L6	0.410	25.0	24.4-26.0	20.9	20.4-21.3	A		Shock vein
Y-75253	L6	L6	0.170	25.0	23.9-27.3	20.9	20.4-21.5	A		
Y-75254	L6	L6	0.300	25.2	24.5-26.6	21.2	20.2-22.5	A		
Y-75255	L6	L6	0.300	25.1	24.6-25.9	21.0	20.3-21.8	A		
Y-75256	L6	L6	0.180	25.0	23.6-25.8	20.8	20-21.3	A		
Y-75257	L6	L6	0.240	25.1	24.6-25.6	21.2	20.4-22.1	A		
Y-75285	Dio	Dio	3.250			24.2	23.0-25.0			
Y-790033	CM2	C2	1.360	9.8	0.4-50.1	3.8	1.4-11.1			Moderately altered

Table 2. Continued.

Meteorite	C.	Old C.	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y-790039	L5	L	1.860	26.1	25.0-28.0	22.1	21.4-23.2	B		
Y-790040	L5	L	1.380	26.0	24.6-27.0	22.1	21.0-22.8	B		
Y-790041	L5	L	1.460	26.2	25.6-28.4	21.9	21.5-22.4	B		
Y-790091	H5	H4	2.450	19.2	17.9-20.4	17.0	13.7-19.9	B		
Y-790092	H5	H4	2.590	19.5	18.9-20.1	16.9	16.5-17.4	B		
Y-790093	H5	H4	2.190	19.2	17.9-20.5	16.9	16.4-17.4	B		
Y-790095	H5	H4	2.100	19.7	18.8-21.8	17.0	14.9-18.3	B		
Y-790096	H5	H4	1.630	19.2	18.4-19.8	16.9	15.3-17.6	B		
Y-790097	H5	H4	2.460	19.5	18.8-20.3	17.2	16.6-17.6	B		
Y-790098	H5	H4	2.260	19.5	18.7-20.9	17.1	16.3-18.0	B		
Y-790099	H5	H4	2.680	18.9	18.0-19.4	16.7	16.1-17.5	B		
Y-790100	H5	H4	1.880	19.5	18.1-20.6	16.2	14.3-17.3	B		
Y-790101	H5	H4	1.570	19.1	18.2-19.6	16.6	15.5-17.8	B		
Y-790103	H5	H4	1.190	19.1	18.3-22.1	16.6	16.0-17.2	B		
Y-790105	H5	H4	0.980	19.4	18.2-21.4	16.5	16.0-16.8	B		
Y-790106	H5	H4	0.520	19.1	18.2-19.7	16.9	16.2-18.4	B		
Y-790107	H5	H4	1.390	19.1	17.4-20.0	17.1	16.4-19.9	B		
Y-790108	H5	H4	0.850	19.2	16.1-21.1	18.3	17.1-20.5	B		Partly melt breccia
Y-790109	H5	H4	1.170	19.1	17.8-20.8	16.5	15.5-17.4	B		
Y-790216	H6	H4	6.290	19.9	18.7-20.7	17.3	16.9-17.9	B		
Y-790217	H6	H4	2.070	19.8	19.1-21.3	17.2	16.7-17.6	B		
Y-790218	H6	H4	1.850	19.9	18.8-21.4	17.4	16.6-19.7	B		
Y-790219	H6	H4	2.640	19.9	19.0-20.9	17.4	16.5-18.6	B		
Y-790220	H6	H4	2.340	19.5	18.8-20.2	17.3	16.7-18.9	B		
Y 003024	H4	H3	5.668	19.1	18.8-19.6	16.2	15.9-16.4	B	A	

Notes for Tables 1 and 2

F: fracturing index

A: No or a few narrow cracks are visible.

B: Several cracks extend across exterior surface.

C: Severe cracks

W: weathering index

A: Limonite haloes on metal particles and limonite veins are minor.

B: 7.5 to 35% of metal particles are weathered to limonite.

C: Most metal particles are weathered to limonite.

Table 3. Classification and chemical compositions of iron meteorites.

Meteorite	Wt.	Classification		Fe	Co	Ni	Ga	Ge	Ir	Au
	g	Chem.	Str.	wt.%	wt.%	wt.%	ppm	ppm	ppm	ppm
Y-86267	0.820	ungr	H	93.1	0.53	6.24	12.2	59.9	0.017	1.03
A-881409	25.31	IVA	Of	90.2	0.40	9.12	2.38	0.15	0.895	2.14
A-881910	358.2	IIIE	Of	90.8	0.48	8.33	17.5	34.3	0.196	0.769
A-881942	423.7	IIIE	Of	90.7	0.48	8.52	18.0	35.9	0.204	0.801
Y 980141	551.4	IVA	Og	91.8	0.40	7.55	2.11	0.15	2.00	1.18
Y 980373	3.927	IIIAB	Om	91.6	0.50	7.44	20.2	38.6	3.55	0.630
Y 980517	88.00	IAB-sLH	D	82.1	0.59	17.2	5.95	4.24	0.060	1.86
Y 983805	43.37	ungr	-	85.3	0.68	13.9	1.55	8.56	5.98	0.686