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Introduction

This newsletter reports 1,034 meteorite names from Yamato bare ice fields collected in the 1998 field season. They include 54 melt breccias of ordinary chondrites, 6 carbonaceous chondrites (3 CM, 2 CO, 1 CR), 4 E chondrites, 5 R chondrites, 12 HED meteorites (1 howardite, 8 eucrites, 3 diogenites), 2 ureilites including one polymict ureilite, 1 lodranite, and 1 winonite. Many of the melt breccias seem to be paired with Y-790964.

Classification

Table 1 presents the results of classifications (groups, averages and ranges of Fs and Fa values, fracturing and weathering degrees). Table 2 presents oxygen isotopic compositions of several meteorites. Figure 3 presents descriptions photomicrographs of selected meteorites. Macroscopic descriptions were made by H. Kojima and H. Kiso.

Sample requests

We welcome requests for samples from research scientists from all over the world. All sample requests will be reviewed in a timely manner. Please use the attached request form and send it to the curators by email (curator@nipr.ac.jp).

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Table 1. List of meteorites classified in this volume.

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y982401	LL3	4.885		15.0-30.7		9.2-37.6	A	A	
Y982403	L6	8.129	25.1	23.0-28.0	22.2	20.8-23.8	A/B	A	
Y982405	CR2	3.955	4.3	0.9-8.6	1.8	0.4-5.4	B	A	
Y982406	LL6	8.846	26.4	24.5-30.8	22.6	21.4-24.2	B	A	
Y982407	LL6	4.175	26.0	24.6-29.4	21.1	19.6-23.0	B	A	
Y982409	H4	4.210	18.5	17.3-20.3	16.6	14.5-18.3	B	A/B	
Y982416	H4	5.878	18.8	17.4-19.3	16.4	14.2-18.1	B	A	
Y982417	H4	9.013	19.5	17.7-21.0	16.8	16.4-17.3	B	A	
Y982418	LL5	12.29	28.6	27.1-30.7	24.1	22.3-26.8	B	A	
Y982419	H4	5.153	19.8	18.5-23.2	17.9	16.0-20.5	A	A	
Y982421	H4	8.282	19.7	18.1-22.2	17.1	16.1-18.5	B	A	
Y982424	H5	7.298	17.3	16.4-18.6	15.4	14.0-16.6	B	A	
Y982425	H4	21.30	18.2	16.9-20.9	15.5	10.6-16.6	C	A/B	
Y982428	H6-3 br	8.844		18.1-24.3		15.4-23.7	B	A	genomict breccia
Y982430	H5	4.588	19.9	17.9-23.5	18.0	16.8-20.9	A/B	A	
Y982435	H4	140.7	17.2	16.5-18.0	15.3	14.1-19.4	A/B	A/B	
Y982436	H6	35.87	18.8	17.8-19.4	16.4	13.9-17.2	B	A	
Y982441	H4	4.221	19.2	17.5-22.7	17.3	16.1-19.6	B	A	
Y982443	H5	7.583	19.4	18.4-20.7	17.2	16.8-17.8	B	B	
Y982446	H4	9.450	19.6	18.4-22.5	17.3	16.0-19.1	B	A	
Y982447	H4-6 br	7.197	20.2	17.9-23.8	18.0	16.3-21.0	B/C	A	genomict breccia
Y982449	L6	11.286	26.0	24.9-28.6	22.1	20.5-23.5	A/B	A	shock vein
Y982450	L6	12.76	26.0	24.0-28.8	22.1	21.1-23.9	B	A	
Y982451	L6	10.46	25.9	25.1-28.1	22.3	20.5-25.0	A/B	A	
Y982452	H4	18.22	19.7	18.5-22.4	17.0	16.0-17.8	A/B	A/B	
Y982453	H4	111.22	19.4	17.9-20.2	16.6	15.6-18.0	B	A/B	
Y982454	H4	25.26	19.4	18.5-22.5	16.9	15.4-18.8	B	A	
Y982455	H4	10.07	20.1	18.6-21.7	17.4	16.5-19.3	B/C	A	
Y982456	H4	10.114	20.2	19.0-22.9	18.2	15.7-22.8	B	A	
Y982457	H4	6.431	20.5	19.1-22.6	18.1	16.7-21.2	B	A	
Y982458	H4	4.060	20.0	19.1-22.9	17.7	16.2-19.1	B	A	
Y982460	H4	18.11	19.7	17.7-23.2	16.9	15.6-18.3	B/C	A	
Y982462	H4-6 br	11.960	19.6	18.6-23.7	17.5	16.3-20.8	B/C	A	genomict breccia
Y982463	H4	17.92	18.9	17.4-20.8	16.7	15.3-17.4	B	A/B	
Y982464	H5	5.020	18.6	17.5-20.4	16.9	15.3-21.0	C	B	
Y982465	H4	14.66	18.8	17.5-21.4	17.1	14.6-21.2	A/B	A/B	
Y982466	H4	10.60	20.1	18.7-24.6	17.8	16.0-22.8	B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y982468	H4	45.55	18.5	17.1-19.8	16.1	14.4-17.2	B	A/B	
Y982469	Euc, unbr	6.782			62.7	60.5-64.8		A/B	An80.9-88.9
Y982473	L6	20.63	24.8	23.9-26.4	21.3	20.0-23.5	B	A/B	shock vein
Y982474	H4	12.84	19.6	18.2-22.2	17.5	16.1-20.9	B	A	
Y982475	H4	25.06	19.3	18.3-23.3	16.8	15.6-18.7	B	A/B	
Y982477	H5	4.955	19.3	18.2-21.4	16.9	13.5-19.0	C	A	
Y982478	H4	3.199	18.4	17.5-21.1	15.7	14.7-17.4	B	A	
Y982479	H4	7.685	19.1	17.9-20.9	16.8	15.4-19.4	B	A	
Y982482	H4	11.40	19.1	18.4-21.5	16.7	15.9-17.5	B	A	
Y982483	H5	6.831	19.6	18.3-22.4	17.3	15.8-21.7	B/C	A	
Y982484	H5	18.53	19.5	18.5-22.2	17.1	15.7-20.5	B	A	
Y982485	H4	9.330	19.5	18.3-21.9	17.3	15.9-20.8	B/C	A	
Y982486	H4	18.52	19.5	17.1-23.4	18.0	16.0-22.5	A/B	A	
Y982487	L3	3.534		20.8-26.4		16.0-24.9	B	A	
Y982488	H5	34.61	20.0	18.1-28.9	16.9	15.3-18.3	B/C	A	
Y982489	H5	3.759	18.8	17.8-22.8	16.6	15.8-19.6	C	A	
Y982490	L6	36.09	25.0	24.5-26.0	20.8	19.8-22.8	A	A/B	
Y982491	H5	37.19	19.8	18.8-20.5	17.8	16.9-19.9	A	A/B	
Y982492	LL3	4.299		5.2-34.1		10.0-25.6	A/B	A	
Y982505	H5	3.683	19.6	17.7-22.7	17.3	16.3-18.6	B/C	A	
Y982515	H4	5.479	17.8	16.6-18.7	15.6	14.6-17.3	C	A/B	shock darkened
Y982516	H4	4.199	18.7	17.5-19.7	17.1	15.7-20.3	C	A	fizzed troilite
Y982522	LL3	6.680		15.7-30.2		11.8-27.8	C	A	
Y982556	H4	898.8	17.4	16.3-18.1	15.3	13.8-16.1	A/B	A/B	
Y982559	H4	69.54	18.8	17.0-20.2	16.9	15.7-20.1	B/C	A	
Y982560	H4	9.671	18.4	17.4-20.2	18.1	15.8-24.0	A/B	A	
Y982561	L5	4.306	25.0	23.9-27.6	20.9	20.0-22.0	C	A	
Y982562	LL5	6.797	26.4	25.3-27.6	21.7	21.2-22.5	C	A	
Y982563	H5	4.490	19.7	18.6-22.2	17.6	15.8-20.0	C	A	
Y982564	H4	4.490	19.2	17.8-20.7	16.8	15.6-21.1	C	A	fizzed troilite
Y982585	CM	4.163	5.1	0.3-57.9	10.6	1.7-30.1		B	
Y982591	CM	3.239	3.7	0.2-40.6	3.5	1.1-5.0		A/B	preferred orientation
Y982609	H5	20.11	19.2	17.8-20.3	17.0	16.2-18.5	A/B	A/B	breccia
Y982611	H5	3.595	19.6	18.0-20.6	17.4	16.3-19.0	B/C	A	shock vein
Y982612	H6	3.367	18.7	17.8-19.5	16.6	15.5-17.7	C	A	
Y982623	H4	9.061	19.0	7.4-24.6	14.4	8.9-19.3	A	A	
Y982624	H5	7.436	19.9	17.5-22.6	17.5	15.6-19.7	A	A	breccia

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y982625	H4	3.836	19.2	16.1-23.5	16.8	12.2-19.2	A/B	A	
Y982630	LL5	12.78	28.4	26.0-32.4	23.3	21.4-25.8	A	A	shock vein
Y982635	LL5	4.328	28.2	26.9-30.7	23.3	22.4-25.1	A/B	A	
Y982636	LL5	4.518	28.2	26.9-30.7	23.3	22.4-25.1	B/C	A	
Y982637	LL5	3.934	27.8	27.1-28.6	23.3	22.1-25.8	A	A	
Y982638	LL5	4.448	28.2	26.5-31.3	23.5	22.5-25.3	A	A	shock vein
Y982642	LL5	3.606	28.2	27.5-30.4	23.5	22.2-24.7	B/C	A	shock vein
Y982650	H6	5.578	20.3	19.0-24.5	17.5	16.1-21.9	C	A	fizzed troilite
Y982651	L6	10.04	25.4	24.3-27.9	20.8	20.0-21.9	A	A	
Y982656	H6	7.720	20.0	17.4-23.0	17.7	15.0-20.9	C	A/B	fizzed troilite
Y982659	L4	8.978	23.2	22.6-24.4	19.8	18.8-22.5	C	A	
Y982660	H4	7.049	19.2	17.8-22.9	17.2	16.2-20.4	B/C	A	
Y982661	H5	195.3	19.1	17.6-20.0	17.7	15.9-21.2	B/C	A	
Y982662	LL5	64.60	27.3	26.2-28.3	22.3	19.6-23.5	A	B	
Y982663	LL5	11.63	27.8	25.8-30.1	23.5	22.2-27.3	B/C	A/B	shock vein
Y982664	LL5	11.53	27.9	26.5-30.7	23.6	22.2-29.3	A	A	shock vein
Y982665	LL5	4.340	27.8	26.7-30.3	23.1	22.2-24.7	A/B	A/B	
Y982666	LL5	4.872	27.8	26.4-29.3	22.6	21.8-23.2	B	A	
Y982667	LL5	5.081	28.0	26.8-29.3	23.7	22.5-26.3	C	A	
Y982668	LL5	4.652	28.4	26.2-30.6	22.9	20.2-27.7	A/B	A	shock vein
Y982669	LL5	6.630	28.2	26.1-30.7	23.3	22.3-24.6	B/C	A	shock vein
Y982670	LL5	4.112	28.0	26.7-28.9	23.1	22.2-24.3	A	A	
Y982671	LL5	3.243	28.2	27.0-30.9	23.5	22.2-25.3	A	A	
Y982683	L melt br	0.533		20.6-29.2		23.7-26.2	A/B	A	
Y982690	Euc, poly	3.928	50.9			29.1-66.1		A/B	An79.6-94.7
Y982695	H4	3.216	19.2	17.8-21.1	17.8	15.0-21.0	A	A	
Y982701	H3	12.24		10.8-20.4		6.2-39.9	A	A	
Y982702	L4	16.01	24.5	22.7-25.8	21.1	19.7-25.0	A	A	
Y982703	LL3	14.96		0.5-34.3		2.0-34.2	A	A	
Y982704	H4	13.20	19.2	17.7-22.5	17.0	16.2-20.0	A	A	
Y982705	H4	9.539	20.0	18.4-22.2	18.8	16.5-22.3	A	A	
Y982709	H5	3.649	19.6	18.4-21.6	17.3	16.2-21.3	A	A	
Y982713	H6	9.653	18.3	17.0-19.4	16.1	15.1-16.8	C	A	
Y982716	H6	5.383	20.2	18.9-24.3	17.7	16.8-20.5	A	A	
Y982718	L5	466.0	25.1	23.9-26.6	21.2	20.5-23.0	A	B/C	
Y982719	L6	3.890	25.2	23.7-26.2	21.6	20.8-24.1	A	A	
Y982729	L5	327.7	25.5	24.5-27.1	21.4	19.9-23.1	A	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y982730	H4	14.81	19.1	18.1-22.1	16.6	16.0-17.2	B	A	
Y982731	H5	3.562	19.7	18.2-22.5	17.1	16.9-18.4	A	A	
Y982740	H3	6.918		17.8-21.0		13.3-19.5	A	A	
Y982741	H6	23.97	18.6	17.0-20.0	16.4	15.2-18.6	A	A	
Y982742	H4	13.12	18.8	17.9-21.4	16.5	15.1-21.2	C	A	
Y982743	H6	3.805	20.3	18.7-24.8	18.1	16.6-223.0	A	A	
Y982746	H6	157.5	16.8	14.9-17.7	14.8	12.9-15.7	B	B	
Y982747	H5	90.38	17.2	15.9-18.2	15.0	13.0-16.1	A	B	
Y982748	H5	102.9	17.1	15.6-18.5	14.9	14.1-15.8	A	A/B	
Y982749	H5	25.10	17.1	16.0-17.8	14.6	13.7-15.4	B	A/B	
Y982750	H5	31.81	17.5	16.1-18.6	15.9	14.7-18.0	B	A/B	
Y982751	H5	34.04	17.2	16.1-18.2	14.9	14.0-16.0	A	A	
Y982752	H5	27.19	16.8	15.9-17.4	15.1	14.1-17.8	A	A/B	
Y982753	H5	15.35	17.2	15.7-18.4	15.0	14.0-17.2	A	A/B	
Y982754	H5	18.16	17.1	15.8-20.0	15.0	14.2-16.4	A	A	
Y982755	H5	14.00	17.1	16.2-18.1	15.3	13.8-18.4	A	A/B	
Y982756	H5	17.48	17.4	16.0-18.5	15.7	14.5-17.2	A	A/B	
Y982757	H5	16.15	17.2	15.5-18.0	15.5	14.6-17.5	A	A/B	
Y982758	H5	15.33	17.4	16.2-19.3	15.8	14.1-19.1	A	A	
Y982759	H5	13.75	17.3	16.5-18.1	15.7	14.2-22.1	A	A/B	
Y982760	H5	13.73	17.0	15.5-19.3	15.0	13.9-16.3	A	A/B	
Y982761	H5	9.525	17.3	16.6-18.3	15.3	14.5-16.5	A	A/B	
Y982762	H5	12.24	17.4	16.8-18.2	15.6	14.3-17.7	A	A	
Y982763	H5	11.74	17.4	16.4-19.3	15.2	12.8-19.1	A	A	
Y982764	H5	9.359	17.2	15.7-19.2	15.2	13.8-15.9	A/B	A/B	
Y982765	H5	9.375	16.9	15.3-17.8	15.4	13.8-16.9	A/B	A/B	
Y982766	H5	8.411	17.6	16.3-21.7	15.5	13.7-20.0	A	B	
Y982767	H5	8.351	17.4	16.4-18.4	15.6	14.2-19.8	A	A/B	
Y982768	H5	10.90	17.3	16.3-18.4	15.4	13.4-20.2	A/B	A/B	
Y982769	H5	8.969	17.4	15.6-19.3	15.2	13.8-16.9	A/B	A/B	
Y982770	H5	8.603	17.5	16.2-21.0	15.2	13.6-17.1	A	A/B	
Y982771	H5	9.657	17.2	15.8-18.4	15.5	13.8-17.9	A/B	A/B	
Y982772	H5	7.432	17.2	15.8-18.9	16.0	14.2-20.7	A/B	A	
Y982773	H5	6.962	17.3	16.2-18.5	15.5	13.7-20.7	A/B	A	
Y982774	H5	7.754	17.2	16.2-17.8	15.8	14.8-16.9	A	A	
Y982776	H4	5.615	17.3	16.3-20.3	15.7	14.5-19.4	B/C	A	
Y982777	H4	5.164	17.3	15.8-18.3	15.5	14.4-16.8	B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y982778	H4	5.883	17.4	15.1-22.3	15.5	14.3-18.1	B	A/B	
Y982779	H4	6.818	17.3	15.7-19.1	15.2	14.1-16.0	B	A	
Y982780	H4	6.380	17.4	16.2-19.1	15.2	14.1-15.9	B	A	
Y982781	H3	6.755		16.1-17.8		14.6-20.4	B	A/B	
Y982782	H4	5.124	17.4	15.4-20.1	15.8	14.6-17.3	B	A	
Y982783	H3	5.505		15.7-20.3		13.5-18.3	B	A/B	
Y982784	H4	6.244	17.4	16.2-19.6	15.2	14.5-16.5	B	A	
Y982785	H4	6.005	17.4	15.5-19.7	15.5	13.6-19.1	B	A	
Y982786	H4	4.226	17.3	15.8-21.6	15.5	14.1-17.9	B	A	
Y982787	H4	5.486	17.6	16.5-19.2	15.6	14.1-18.4	A/B	A/B	
Y982788	H4	4.434	17.4	16.3-20.8	15.4	13.9-17.5	B	A	
Y982789	H4	4.881	17.4	16.4-21.9	15.8	14.7-17.5	B	A/B	
Y982790	H4	5.921	17.3	15.0-18.0	15.6	14.2-8.8	B	A/B	
Y982791	H4	4.440	17.5	16.3-19.3	15.1	13.2-16.8	B	A	
Y982793	L6	3.636	25.4	14.8-32.1	21.7	19.5-23.9	B	A	
Y982794	H4	3.259	17.7	17.0-18.5	15.7	14.4-20.3	A	A	
Y982795	H4	3.580	17.4	16.5-18.1	15.3	14.3-16.9	B	A	
Y982797	H4	3.482	17.6	16.6-19.2	15.5	14.6-16.2	B	A	
Y982798	H4	3.719	17.5	16.0-19.0	15.5	14.7-17.6	B	A	
Y982799	H4	3.065	17.3	15.7-18.9	15.1	13.7-18.3	B	A	
Y982800	H4	3.128	17.6	16.8-18.7	15.5	14.4-19.1	B	A	
Y982802	H4	4.268	17.4	16.3-18.2	15.8	14.1-22.8	B	A	
Y982803	H4	4.090	17.5	16.3-19.2	16.4	13.9-29.4	B	A	
Y982804	H4	3.086	17.6	16.5-18.9	15.7	13.5-17.0	B/C	A/B	
Y982809	H4	3.002	17.7	16.2-18.6	15.7	14.7-16.9	B	A/B	
Y982851	L3	4.963		14.1-25.2		7.8-27.7	B	A	
Y982852	L6	4.577	25.9	24.5-29.1	21.9	19.5-25.5	B	A	
Y982853	H5	75.67	19.0	18.2-21.0	16.6	14.0-18.8	B	A	
Y982854	H5	30.25	18.9	17.9-20.8	16.4	15.0-17.3	B	A	
Y982855	L5	7.947	25.6	24.7-27.8	21.3	20.9-21.6	B	A	
Y982858	H5	3.450	18.8	18.2-21.3	16.5	15.5-18.0	C	A	
Y982859	H4	520.0	18.6	17.6-19.8	16.1	15.5-16.8	C	A	
Y982861	L6	3.905	25.6	23.7-26.8	21.8	20.5-27.2	B	A	
Y982873	H3	4.425		18.0-22.6		9.2-17.8	B	A	
Y982875	H3	4.707		18.2-19.8		10.6-21.6	B	A	
Y982876	H4	3.788	20.5	18.9-23.4	17.4	12.9-23.4	B	A	
Y982877	H4	3.116	20.0	18.4-22.3	17.1	15.9-19.3	B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y982878	L3	3.897		17.3-22.6		8.3-23.3	B	A	
Y982881	Ure	3.031	12.0	7.6-13.0	11.0	10.6-11.3		A	
Y982883	H5	4.814	19.4	18.5-20.9	17.0	15.7-17.6	B	A	
Y982889	H4	3.804	19.8	18.3-22.2	17.5	16.4-21.4	C	A	
Y982892	L6	3.618	25.8	24.9-28.9	21.7	19.9-25.6	A/B	A	
Y982893	L6	5.124	26.0	24.7-32.2	22.0	20.6-24.0	B	A	
Y982895	H4	6.452	19.4	17.4-22.4	17.5	15.2-24.6	B	A	
Y982896	L3	7.407		10.7-25.5		5.2-31.7	B	A	
Y982897	L3	12.19		15.7-24.9		11.2-30.3	A/B	A	
Y982898	L3	7.500		15.1-27.6		2.7-34.4	A/B	A/B	
Y982900	L3	6.128		14.3-28.0		6.4-31.1	C	A	
Y982901	L3	6.308		15.0-26.6		10.1-28.5	B	A	
Y982902	L3	5.308		15.1-27.1		10.2-25.8	B/C	A	
Y982903	L3	4.755		5.4-24.9		5.7-29.2	B	A	
Y982904	L3	5.398		16.7-25.8		9.7-27.3	A	A	
Y982905	L3	3.679		19.9-25.3		4.3-25.8	B	A	
Y982907	L3	3.526		19.2-25.0		3.7-30.8	B/C	A	
Y982913	L5	3.433	25.8	24.7-27.6	21.6	19.8-24.5	B	A	
Y982914	H4	97.21	16.7	15.3-17.3	15.4	14.2-19.9	C	B	
Y982917	H4	6.843	18.3	17.1-21.5	16.8	15.2-21.3	B/C	A	
Y982922	H5	4.680	20.2	18.8-24.0	17.3	16.2-20.0	C	A	
Y982923	L5	265.8	25.7	24.2-26.5	21.2	20.0-22.3	B	A	
Y982925	H5	4.940	19.9	18.0-22.6	17.7	16.5-20.4	A	A	
Y982926	H5	3.351	19.5	17.3-21.7	17.9	15.8-22.8	B/C	A	
Y982929	H4	3.318	20.6	18.3-24.4	17.5	10.6-23.9	B/C	A	
Y982932	H5	66.65	18.6	17.3-21.0	17.0	15.5-21.1	C	A	
Y982934	H5	4.617	18.3	17.1-20.9	16.5	15.6-20.3	A/B	A	
Y982936	H5	11.28	19.5	18.5-22.4	17.6	15.3-19.7	C	A/B	
Y982937	H5	6.825	19.7	18.2-22.7	18.0	15.4-23.4	C	A	
Y982938	H4	4.319	18.4	17.2-20.2	16.7	14.8-20.3	A	A	
Y982939	L5	8.580	25.8	24.6-29.9	21.8	20.7-24.1	B	A	shock vein, fizzed troilite
Y982948	L6	586.9	24.5	23.5-25.5	20.7	19.7-21.8	B/C	B	
Y982952	H5	4.287	19.2	17.3-26.5	16.8	15.4-21.0	B/C	A	
Y982959	L5	3.367	25.6	24.2-29.6	21.6	21.0-23.3	C	A	
Y982960	H5	14.70	19.7	17.2-23.9	17.1	15.9-20.5	A/B	A	
Y982965	H4	38.31	19.5	18.2-21.4	16.4	10.4-22.2	C	A	
Y982967	H4	6.741	18.6	16.8-24.1	16.5	14.7-18.1	B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y982968	H4	4.781	19.2	18.2-22.5	16.5	10.0-20.6	C	A	
Y982970	H4	4.015	19.0	17.9-20.1	16.4	11.5-27.1	C	A	
Y982975	H5	20.69	19.9	17.8-20.8	16.3	15.4-17.7	B/C	A	shock darkened
Y982977	H5	186.1	17.2	15.6-18.5	14.9	13.7-16.4	C	A/B	shock darkened
Y982978	H5	72.16	17.0	15.7-19.1	14.8	13.7-16.8	B/C	A/B	shock darkened
Y982979	H5	46.03	16.9	14.7-17.9	14.7	13.9-15.9	C	A/B	shock darkened
Y982980	H5	14.55	17.3	15.9-19.5	16.1	14.6-19.3	B/C	A/B	shock darkened
Y982981	H5	9.864	17.6	16.0-19.9	15.9	14.5-20.7	B	A	shock darkened
Y982982	H5	10.97	17.6	16.5-20.2	15.5	13.9-19.8	C	A	shock darkened
Y982983	H5	8.375	17.3	16.1-18.9	15.3	13.8-16.0	B/C	A	shock darkened
Y982984	H5	8.522	17.4	16.0-18.3	15.6	13.4-17.6	B/C	A/B	shock darkened
Y982985	H5	8.063	17.5	16.5-18.8	15.4	14.7-15.9	B/C	A/B	shock darkened
Y982986	H5	7.393	17.5	16.3-20.1	14.9	13.8-15.7	C	A/B	shock darkened
Y982987	H5	5.825	17.4	16.3-19.9	15.3	14.4-16.3	B/C	A/B	shock darkened
Y982988	H5	3.797	17.3	15.9-18.3	15.8	13.2-22.4	B/C	A/B	shock darkened
Y982989	H5	4.882	17.1	16.1-18.0	15.5	13.5-18.8	B/C	A	shock darkened
Y982990	H5	3.502	17.2	15.3-18.3	15.1	13.8-16.0	C	A	shock darkened
Y982991	H5	4.894	17.5	16.2-19.5	15.4	14.7-16.6	B/C	A	shock darkened
Y982992	H5	3.198	17.7	16.7-18.6	16.0	14.3-22.8	B	A/B	shock darkened
Y982993	H5	3.339	17.7	16.4-19.6	16.1	14.5-19.3	B/C	A	shock darkened
Y982996	H5	3.105	17.8	16.8-18.7	15.7	14.7-17.2	B/C	A/B	shock darkened
Y983012	H5	26.29	17.2	16.5-18.2	15.6	14.2-17.8	B	A	
Y983014	H5	31.66	19.1	17.8-21.0	16.8	13.3-20.8	B/C	A/B	
Y983016	H4	17.53	18.4	17.6-20.2	17.0	15.7-18.6	A	A	
Y983018	H5	5.602	19.5	18.7-22.2	16.5	15.8-17.3	A	A	
Y983019	H5	3.274	20.1	18.9-24.7	17.5	16.8-19.3	A/B	A	
Y983020	H5	4.370	17.6	16.8-19.3	15.6	15.0-16.2	B	A	
Y983023	LL6	3.729	26.1	23.8-29.1	23.0	21.0-27.8	A	A	
Y983025	H5	3.465	19.2	17.9-21.6	17.1	15.5-19.6	A	A	
Y983027	LL3	4.839		12.8-33.4		14.1-28.3	A	A	
Y983028	L6	201.3	24.8	23.8-25.8	20.5	18.8-21.4	A	A/B	
Y983029	L6	144.5	25.1	23.6-27.2	20.5	19.6-21.5	A	A/B	
Y983034	H5	4.488	20.4	18.9-22.3	19.1	17.5-22.7	B	A	
Y983035	H5	3.523	19.4	18.3-21.2	17.5	16.3-20.0	B/C	A	
Y983036	H5	45.45	18.7	17.6-19.7	16.3	15.7-17.9	B	A	
Y983037	L6	579.7	25.4	24.3-26.1	20.7	19.3-22.0	B	A	
Y983041	H6	3.213	17.3	16.2-18.4	15.3	14.7-16.3	B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983044	H5	12.78	19.3	18.2-21.2	17.9	16.2-22.4	A/B	A	
Y983047	H5	8.143	20.2	18.7-23.9	18.0	16.8-20.7	A	A	
Y983048	H6	6.107	20.1	18.4-25.7	17.2	15.8-19.5	B	A	
Y983049	H6	4.064	20.2	19.1-22.3	17.7	16.2-21.1	B	A	
Y983051	H5	17.58	18.7	18.0-20.5	17.0	16.0-18.6	B	A	
Y983052	H6	16.80	18.4	17.1-20.0	16.3	14.5-18.3	B	B	
Y983054	H6	233.5	16.9	15.4-17.8	14.9	13.8-16.1	B	B	
Y983055	H5	4.147	18.8	17.9-21.2	17.3	15.2-21.0	A/B	A	
Y983056	H5	362.4	18.6	17.9-19.6	16.1	14.7-16.9	A	B	
Y983063	LL3	3.382		0.6-29.9		2.4-26.1	A	A	
Y983064	L6	40.94	24.4	23.4-25.9	20.4	19.3-21.5	A	B	
Y983066	H6	7.022	20.3	19.2-22.8	18.1	16.7-20.3	A	A	
Y983067	H6	4.907	19.7	18.8-23.1	18.3	16.6-23.3	A	A	
Y983068	H6	3.428	20.3	17.8-23.7	17.6	16.4-20.0	A/B	A	
Y983069	H6	18.72	20.5	18.9-26.9	17.9	16.2-20.9	B	A	
Y983071	H6	5.877	17.5	15.4-21.3	15.2	13.3-15.9	A/B	A	
Y983072	H4	5.825	18.4	17.4-19.6	17.1	15.8-22.7	A/B	A	
Y983073	L6	112.9	24.9	23.6-26.6	21.4	19.1-22.8	A	A/B	
Y983075	L6	3.687	25.8	23.9-27.4	21.8	19.4-23.7	A	A	
Y983077	L6	4.802	25.2	24.4-27.4	21.1	20.4-22.1	A	A	
Y983084	H5	604.1	18.8	17.8-22.0	16.3	15.4-17.0	B	A/B	
Y983088	H3	5.620		0.8-37.9		3.1-30.9	A/B	A	
Y983090	H4	6.815	19.3	18.0-22.9	17.1	15.9-18.3	A	A/B	
Y983093	H5	308.6	18.0	17.2-18.8	16.1	14.3-20.0	A	B/C	
Y983094	H4	4.338	19.2	18.0-23.1	16.6	15.3-20.0	A/B	A	
Y983095	H4	3.252	18.8	17.7-22.4	17.0	15.6-18.6	A	A	
Y983097	R5	18.04	35.0	34.2-37.0	29.3	29.3-29.3	A	A	
Y983098	H5	4.423	19.0	18.4-21.2	17.1	15.3-21.2	A/B	A	
Y983099	H6	310.0	18.0	17.6-18.5	17.1	15.5-19.4	A	A	
Y983101	H6	72.75	19.0	18.0-19.4	16.9	15.4-18.7	A/B	B	
Y983102	Dio	24.24			24.9	22.5-27.3		A	type A
Y983104	L3	5.051		16.2-34.1		18.1-32.0	A	A	
Y983105	L6	7.105	25.6	24.1-27.4	21.9	19.9-25.1	A	A	
Y983106	H5	18.60	18.6	16.8-21.5	16.2	14.5-18.7	A/B	A	
Y983109	H5	7.164	19.5	16.8-22.2	18.0	16.2-23.1	A	A	
Y983111	H3	3.760		18.4-23.3		11.2-21.5	A/B	A/B	
Y983112	H3	6.553		18.6-22.0		10.8-30.4	A	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983113	L6	88.62	25.0	24.1-26.6	21.0	19.9-22.2	A/B	A/B	
Y983114	L3	20.55		24.4-25.7		14.0-21.4	B	A	
Y983118	H5	8.382	20.0	18.7-22.4	17.2	15.8-19.9	B	A	
Y983119	Lod	52.55	3.2	2.8-3.6	3.8	3.3-4.3	B	A/B	
Y983121	H4	3.667	18.8	17.7-19.6	16.7	15.6-17.9	B	A	
Y983122	H5	41.28	18.9	17.7-20.8	17.3	15.8-22.7	B	A	
Y983123	H3	12.26		10.4-26.5		9.2-34.8	B	A	
Y983125	H6	358.0	19.3	18.2-20.3	16.9	15.4-19.6	B	B	
Y983126	L6	63.37	25.3	24.5-27.0	21.0	20.4-21.8	A	A/B	
Y983127	H5	55.95	18.9	17.5-19.6	16.6	14.3-17.7	B	A	
Y983128	L6	43.59	24.8	23.5-25.6	20.8	20.1-21.4	B	A	
Y983129	L6	5.387	26.3	24.1-29.9	22.7	21.2-24.5	C	A	
Y983132	L6	129.6	25.1	24.5-26.7	20.9	19.7-22.2	A/B	A	
Y983133	H6	366.6	19.2	18.1-20.7	17.2	16.4-19.9	A/B	B	
Y983137	H6	69.89	19.1	16.8-19.9	16.6	15.1-17.7	B/C	B	
Y983139	H6	16.90	20.2	19.1-23.4	17.4	15.5-19.9	B/C	A/B	
Y983140	H6	14.28	19.9	18.7-21.3	17.3	16.6-18.7	B/C	A/B	
Y983141	H5	15.35	20.1	17.8-23.6	17.4	16.0-21.4	B/C	A	
Y983142	H6	15.79	20.0	18.5-21.6	17.4	16.2-18.4	A/B	A	
Y983143	H6	7.163	19.8	18.2-23.1	17.3	16.3-19.1	B	A/B	
Y983144	H6	12.95	19.9	19.0-20.7	17.2	16.0-17.9	A/B	A/B	
Y983145	H6	7.084	19.7	19.0-20.7	17.0	16.0-18.0	B	A/B	
Y983146	L5	7.436	25.5	24.5-27.0	21.7	20.4-24.6	A	A/B	
Y983147	H6	6.127	20.2	19.5-21.3	17.6	16.2-19.8	A	A/B	
Y983148	H6	5.106	19.8	19.3-21.6	17.4	16.8-17.8	B	A/B	
Y983149	H6	4.632	19.9	19.0-21.3	17.4	16.7-18.0	A	A/B	
Y983150	H6	4.172	19.7	18.7-20.6	17.4	16.8-18.3	B	A/B	
Y983151	H5	3.621	19.8	18.3-20.9	17.5	16.1-20.0	A/B	A	
Y983152	H5	3.207	19.9	18.9-20.9	17.4	15.9-18.1	A	A/B	
Y983159	H6	5.587	19.8	19.2-22.4	17.2	16.3-17.8	B/C	B	
Y983162	H6	5.064	18.9	17.2-24.1	16.9	16.2-19.6	B	A	
Y983163	H6	3.179	19.3	18.1-21.2	17.3	15.6-20.5	B	A	
Y983164	H6	11.64	19.8	18.6-21.0	17.4	14.8-22.1	A/B	A	
Y983166	R4	3.426	39.9	23.8-42.1	4.0	2.7-5.4	A	A	
Y983167	L6	27.84	24.8	22.4-26.7	20.9	20.4-21.7	A	A/B	
Y983168	H6	15.29	19.8	18.6-20.7	17.3	16.3-18.4	A	A/B	
Y983169	H6	7.602	19.4	18.2-20.8	17.6	16.5-21.5	B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983170	H6	4.362	19.8	18.9-20.9	17.4	16.4-19.3	A/B	A	
Y983173	H6	20.24	19.2	18.0-20.1	16.7	15.3-17.4	B	A/B	
Y983174	H6	8.367	19.9	18.8-24.0	17.1	14.5-18.4	A/B	A/B	
Y983175	H6	7.194	19.6	18.5-21.5	17.1	15.9-19.4	A/B	A/B	
Y983176	H6	5.799	19.8	18.7-20.8	17.2	15.5-17.9	A/B	A	
Y983178	H6	6.180	19.6	18.4-20.4	17.3	15.9-17.9	A/B	A	
Y983179	H6	6.617	19.6	17.9-21.9	17.4	16.8-18.6	B/C	A/B	
Y983180	H5	7.273	19.8	18.9-21.1	16.9	16.0-17.7	C	A/B	
Y983181	H5	17.37	19.6	18.4-20.5	17.1	15.5-19.7	C	A	
Y983182	L5	20.72	24.4	23.1-27.0	20.4	19.7-21.2	A	A	
Y983183	LL3	142.9		0.7-25.6		1.6-22.0	B	A	
Y983184	H4	18.16	18.0	16.9-20.2	16.1	14.5-19.0	B	A	
Y983185	H4	11.09	18.4	16.6-20.7	15.4	13.3-17.9	B	A/B	shock darkened
Y983186	L6	39.89	25.0	24.3-26.5	20.9	20.6-21.3	B	A/B	
Y983187	H4	50.30	17.8	16.2-19.7	15.3	14.2-16.8	C	A	shock darkened
Y983188	L6	17.96	26.1	23.9-30.0	22.0	20.7-23.3	B	A/B	
Y983189	H5	14.73	18.6	17.7-19.8	16.3	15.2-17.0	C	A/B	
Y983190	L melt br	13.99		22.3-32.7		21.8-23.1	A	A	
Y983191	H4	6.687	18.7	17.9-22.4	16.5	15.6-17.6	B	A	
Y983192	H br	3.810		18.0-21.8		14.9-17.9	A/B	A	shock darkened
Y983194	H br	10.61		17.6-21.2		15.5-17.4	B	A	
Y983196	H4	29.61	18.7	17.3-21.2	16.2	14.9-18.4	B	A	
Y983197	L6	34.78	24.2	23.3-26.1	20.1	18.4-20.8	A/B	A	
Y983198	L6	4.089	25.8	25.0-27.8	21.9	20.3-26.0	B	A	shock darkened, shock vein
Y983199	L6	19.32	24.3	23.0-26.6	20.7	19.4-22.6	B	A	
Y983200	H5	6.231	19.6	18.4-21.2	17.5	16.4-19.2	B	A	partly darkened
Y983201	H6	67.36	19.2	17.8-20.8	16.5	15.5-17.2	C	A/B	
Y983202	H5	17.32	19.8	19.0-20.8	17.1	15.7-17.8	B	A/B	
Y983203	H5	17.34	19.8	18.7-20.7	17.0	16.1-17.9	B	A	
Y983204	H5	12.90	19.7	18.4-21.9	17.4	14.9-20.7	C	A	
Y983205	H5	12.02	19.7	19.0-20.5	17.4	16.3-21.2	C	A/B	
Y983206	H5	10.53	19.9	19.0-20.6	17.2	16.2-19.2	C	A/B	
Y983207	H5	10.42	19.8	18.9-20.4	17.3	16.5-21.4	B	A/B	
Y983208	H5	7.559	19.8	18.1-21.3	17.3	16.2-19.1	C	A	
Y983209	H5	7.267	19.6	18.5-20.7	17.3	16.1-21.2	C	A	
Y983211	H4	9.388	18.7	17.1-19.8	17.3	15.8-20.5	B	A	
Y983212	H	9.784		17.7-25.6		14.9-20.2	A	A	monomict breccia, shock darkened

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983213	LL melt br	5.479		27.4-33.0		23.9-24.9	A/B	A	
Y983215	H5	70.84	18.8	17.9-19.6	16.3	15.1-17.1	C	A	
Y983217	H5	9.936	19.4	18.2-21.8	17.4	15.3-22.0	A/B	A/B	
Y983219	H5	12.35	19.6	18.0-22.7	17.6	15.9-26.7	B/C	A	
Y983220	L melt br	232.1		17.5-28.1		17.6-21.2	A/B	A	
Y983221	L5	40.41	25.3	23.7-27.7	21.1	20.6-21.5	B/C	A	
Y983222	H6	5.765	19.9	19.2-20.6	17.7	16.7-19.8	B	A	
Y983223	LL6	12.17	29.2	28.3-31.5	23.8	23.1-24.5	A	A	
Y983224	H5	53.06	18.7	17.5-19.7	16.5	15.9-17.3	B/C	A	
Y983225	H5	46.47	18.5	17.8-19.7	16.1	15.6-16.8	B	A	
Y983226	L6	26.71	25.1	24.1-25.9	21.1	20.3-21.7	B/C	A	
Y983228	H5	3.282	19.6	18.1-22.0	18.9	16.4-23.4	C	A	
Y983231	H5	60.92	17.9	16.8-19.8	15.8	14.7-17.4	B	A	
Y983233	H5	16.44	19.4	18.3-22.3	17.2	15.7-20.3	A	A	
Y983234	H5	27.15	19.3	18.0-21.5	16.8	15.2-20.3	C	A	
Y983235	R4	3.498	40.6	39.0-43.7			B	A	
Y983236	H5	47.71	18.8	18.1-20.4	16.7	15.6-18.5	B/C	A	
Y983238	L6	4.303	25.8	24.0-32.5	21.7	20.2-23.9	C	A/B	shock vein
Y983245	H5	9.150	19.4	17.9-22.2	17.4	16.3-21.4	C	A	
Y983247	H5	208.8	18.9	14.2-21.4	15.2	6.7-18.3	B	A/B	
Y983249	H6	26.34	19.7	18.7-20.9	17.1	16.2-17.8	B	A	
Y983250	LL melt br	509.7		27.7-34.0		22.3-26.2	A	A	melt rock
Y983251	L5	3.864	24.9	23.8-27.1	21.3	20.2-26.2	B/C	A/B	
Y983252	H6	17.23	19.7	18.4-20.3	17.3	16.0-18.6	B/C	A	
Y983253	L5	83.49	23.9	21.8-24.9	20.3	18.5-21.7	B	A	
Y983257	L6	12.01	25.5	24.6-27.3	21.8	21.0-22.8	B/C	A	
Y983259	H4	15.23	19.4	18.2-22.1	17.7	16.0-21.5	B	A	polycrystalline troilite
Y983261	H6	9.487	19.1	18.3-21.8	17.0	15.6-19.6	A	A	fizzed troilite
Y983262	H6	83.21	19.1	18.2-20.5	16.7	15.6-18.6	A/B	A/B	
Y983263	H4	515.1	18.8	18.0-19.4	16.4	14.7-17.6	A/B	A/B	
Y983265	H6	10.82	19.9	18.5-21.5	17.6	16.1-21.5	A	A/B	
Y983266	H6	20.54	18.9	18.2-20.2	16.6	15.8-19.8	A	A	
Y983267	LL6	27.03	29.6	27.9-32.5	24.4	23.3-25.0	A	A	
Y983268	H4	11.44	19.5	18.1-24.3	17.3	15.6-20.2	A	A	
Y983269	L6	109.9	25.4	24.0-27.3	21.1	19.3-24.7	B	A	
Y983270	R4	26.40	39.4	38.4-40.1			A	A/B	
Y983271	L6	16.63	25.6	24.6-27.3	21.7	20.2-23.9	A/B	A	shock vein

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983272	LL melt br	109.7		27.3-33.2		22.1-25.8	A	A	shock melted
Y983273	H6	189.8	18.5	17.9-19.0	16.1	15.3-18.1	A/B	A/B	
Y983274	H6	42.74	18.7	18.1-19.4	16.8	15.2-19.6	A	A	
Y983275	L6	23.74	24.4	22.5-26.4	19.7	18.3-22.6	B	A/B	
Y983276	H3	110.9		16.1-18.8		7.6-23.9	B	A	
Y983277	L6	146.0	24.7	23.8-26.7	20.7	19.5-21.8	A/B	A/B	
Y983278	LL3	39.54		2.0-26.1		1.4-32.5	A/B	A	
Y983279	H6	252.9	18.5	17.5-19.3	16.5	15.5-17.8	A/B	A/B	
Y983280	L5	133.6	24.0	22.5-25.6	20.3	19.5-20.9	A/B	A	
Y983281	L6	14.58	25.7	24.5-27.7	21.8	20.4-23.6	A	A	
Y983282	H4	28.15	19.2	18.3-21.2	16.6	15.9-17.5	A	A	
Y983283	L6	54.65	24.4	23.5-25.4	20.2	18.9-20.7	A	A/B	
Y983284	H6	18.82	19.7	18.8-21.5	17.4	15.8-22.4	A/B	A	
Y983285	L4	7.775	25.0	23.5-26.8	20.7	19.3-23.9	A/B	A	
Y983286	LL6	309.0	30.8	29.8-31.6	24.5	23.9-25.4	A	A	
Y983288	LL6	4.518	32.0	30.9-33.2	25.9	24.5-26.6	A	A	
Y983289	L4	210.4	23.4	22.0-25.4	19.4	13.4-24.7	A/B	A	
Y983290	H5	5.874	19.6	18.6-22.6	17.1	15.5-21.0	B	A	
Y983291	H5	101.1	19.4	18.8-21.1	16.8	15.3-20.4	B	A	
Y983292	H5	29.24	18.4	17.1-19.7	16.2	15.2-17.8	B	A	
Y983293	Euc, poly	14.10				27.6-60.6		A	An78.7-92.4
Y983301	H5	37.33	20.0	18.7-21.6	17.5	16.8-18.2	A/B	A/B	
Y983302	H6	31.33	19.5	17.5-21.0	17.2	15.5-19.3	B	A/B	
Y983305	H4-6 br	34.76	18.8	17.5-20.3	17.0	15.6-21.8	A/B	A	genomict breccia
Y983307	H6	38.04	19.7	18.8-20.7	17.0	16.2-17.6	A/B	A/B	
Y983309	H6	3.376	20.1	19.1-20.9	17.6	16.9-18.7	A/B	A/B	
Y983311	H4	4.402	19.7	18.7-23.0	17.8	16.7-23.0	A/B	A	
Y983312	L/LL3	42.60		0.4-25.0		0.7-30.2	A/B	A	
Y983313	H4	3.595	18.6	17.2-21.2	16.6	14.9-19.0	A/B	A	
Y983314	LL	42.95	27.4	26.1-29.3	23.6	21.8-26.8	A/B	A	shock darkened
Y983315	L6	29.44	25.6	24.3-29.2	21.3	19.7-23.9	A/B	A/B	shock vein
Y983316	H6	5.342	20.0	19.0-21.7	17.5	16.3-18.1	B/C	A	
Y983317	H6	19.94	19.6	18.5-20.5	17.2	17.0-17.6	B/C	A/B	
Y983319	H5	14.40	19.3	18.3-21.3	17.7	15.4-21.8	B	A	
Y983320	H3	81.35		15.8-18.6		14.8-17.5	B	A	
Y983321	H5	9.161	19.9	18.8-22.4	17.2	15.0-18.8	B	A	
Y983322	H4	37.42	18.5	17.4-20.4	16.5	15.5-18.1	B/C	A/B	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983323	H4	9.914	19.1	18.2-20.6	16.7	15.5-18.3	B	A	
Y983324	H3	18.09		16.9-21.7		11.9-35.8	B/C	A	
Y983325	L6	5.210	25.6	23.7-28.1	21.9	20.1-25.9	A/B	A/B	
Y983327	Win	5.931	1.5	1.0-4.9	3.5	1.6-7.2	B	A	
Y983328	H5	5.902	19.8	18.6-21.9	17.6	16.3-22.8	A/B	A	
Y983329	H5	20.35	19.3	18.1-20.3	17.0	15.9-18.2	B	A	
Y983330	H4	4.240	20.0	18.7-24.5	17.7	16.1-22.5	A/B	A	
Y983334	L4	3.455	26.1	23.9-28.5	21.7	20.7-23.0	A	A	
Y983336	H/L5	13.35	21.0	18.7-24.2	19.2	16.4-24.3	B	A	
Y983338	L4	398.0	23.6	22.4-24.7	19.7	16.9-22.9	B	B	
Y983339	H5	36.96	19.2	18.2-20.0	16.9	16.4-17.7	B	A	
Y983340	LL6	5.693	31.3	30.3-35.9	26.1	24.8-28.5	A	A	
Y983341	H4	23.11	18.9	18.1-22.0	16.4	15.5-19.2	B	A	
Y983342	H4	185.5	19.0	18.1-20.2	16.5	14.5-18.0	B	B	
Y983343	H4	6.924	20.0	18.4-25.8	17.8	16.2-20.0	B	A	
Y983344	H4	9.510	20.0	18.5-27.0	17.6	15.8-20.7	B	A/B	
Y983348	L5	10.94	25.7	23.1-29.5	21.5	19.2-23.1	B	A/B	
Y983349	H4	98.29	18.5	17.3-19.9	16.2	15.6-16.8	B	A	
Y983350	H4	45.33	18.3	17.3-19.2	16.5	15.7-19.6	C	A	
Y983351	H4	7.795	19.2	17.3-21.7	17.8	16.4-20.9	B/C	A	
Y983352	Euc, br	47.80				37.0-59.5		A	An72.6-81.8
Y983354	L6	14.50	25.5	24.0-28.9	22.6	19.5-26.3	B	A	shock vein
Y983356	H6	3.359	20.8	19.2-23.5	17.8	16.9-18.5	B/C	A	
Y983360	H6	5.663	20.4	19.1-22.9	18.1	15.0-22.9	C	A	shock vein
Y983363	H5	5.389	19.6	18.5-23.9	16.9	15.6-17.4	C	A	
Y983364	L4	28.46	23.3	22.0-24.8	20.0	18.5-22.7	B	A	
Y983365	H5	12.12	18.8	17.4-21.2	16.4	16.0-17.0	C	A	
Y983366	Euc, unbr	138.9			51.8	30.9-62.4		A	An78.0-91.3
Y983367	LL3	418.3		0.9-24.3		2.1-29.2	B	A	
Y983368	L6	24.20	25.3	23.7-27.7	21.3	20.6-22.5	B	A	
Y983369	L6	8.002	26.2	24.9-28.7	22.0	20.6-24.3	B	A	thin shock vein
Y983375	L6	15.91	25.9	25.0-30.0	21.8	19.9-23.7	B	A	
Y983376	L6	5.506	26.4	25.0-29.3	22.5	20.6-25.6	B	A	shock vein
Y983377	H6	4.173	20.3	19.2-22.1	18.4	17.0-21.1	B	A/B	
Y983378	H4	11.91	18.6	17.4-21.3	16.2	15.4-16.7	B	A	
Y983380	L4	20.71	23.9	22.7-25.4	20.2	19.0-21.3	B	A	
Y983381	H5	12.45	19.6	18.5-22.7	17.1	16.4-18.9	B	A	fizzed troilite

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983382	L6	3.636	24.4	19.4-28.7	21.2	19.7-24.1	C	A	maskelynite
Y983384	H4	4.907	20.0	18.4-30.6	17.2	16.5-17.9	B/C	A	
Y983388	H/L6	5.357	21.1	19.8-25.9	18.3	16.8-22.6	C	A	
Y983389	H4	14.96	19.0	17.7-23.4	16.8	15.2-18.8	A	A	
Y983390	LL6	13.18	26.3	24.7-29.0	22.5	20.5-24.8	B	A	
Y983393	LL melt br	9.243		28.0-31.9		21.8-26.6	B	A	
Y983394	LL6	43.18	29.0	28.2-29.8	23.3	11.8-26.1	B	A/B	breccia
Y983396	LL3	80.64		0.6-33.4		0.4-36.7	C	A	
Y983397	L5	31.90	25.3	23.9-27.7	21.4	20.3-23.6	B/C	A/B	
Y983399	H6	4.787	20.4	19.8-21.5	17.9	15.8-22.7	B/C	A	
Y983402	LL6	5.603	26.1	23.9-27.8	23.2	20.9-27.8	B	A	fizzed troilite
Y983404	L6	9.207	25.3	24.5-26.2	21.3	19.9-24.5	C	A	
Y983405	H3	66.23		4.8-23.2		2.9-33.9	A/B	A	
Y983406	LL melt br	34.42		29.3-31.3		23.6-25.7	A	B	
Y983407	H4	4.546	19.4	17.9-21.0	16.8	16.1-17.7	B/C	A	
Y983408	H melt br	15.60		17.8-21.5		14.6-17.5	A/B	A	
Y983409	H5	99.98	18.7	17.9-19.8	16.5	15.5-19.9	C	A/B	
Y983410	H4	16.55	18.9	18.2-22.4	16.9	15.3-20.5	B/C	A/B	
Y983411	H4	5.645	19.3	17.8-24.0	17.7	15.5-22.1	C	A	
Y983413	H5	5.514	19.2	17.8-23.3	17.5	15.9-20.3	B/C	A/B	
Y983415	H6	5.485	20.2	18.5-22.2	18.1	15.3-22.7	B/C	A	
Y983416	LL6	7.563	26.2	24.7-30.5	21.9	19.5-24.3	B/C	A	
Y983417	LL melt br	5.310		21.2-28.4		24.9-24.9	A/B	A	
Y983418	H6	42.39	20.0	18.8-22.4	17.4	16.2-20.2	C	B	
Y983419	H6	29.47	19.5	18.3-22.8	17.2	16.1-20.4	C	B	
Y983420	H3	68.04		16.9-21.6		2.5-28.1	C	A	
Y983421	LL melt br	4.958		27.9-33.2		22.3-27.4	A	A	
Y983422	H4	11.51	19.9	17.7-23.3	17.0	16.2-19.0	B	A	
Y983423	L5	22.89	24.0	22.9-25.8	20.7	19.7-23.5	B/C	A	
Y983425	H6	23.87	19.2	17.6-23.0	16.8	15.7-19.3	A	A/B	
Y983426	H6	13.26	19.9	18.3-22.5	17.9	16.5-21.2	B	A/B	
Y983427	H4	23.28	18.9	18.0-19.6	16.1	14.8-17.4	B/C	A	
Y983428	H5	26.51	19.1	18.0-20.9	17.5	15.3-21.6	A/B	A	
Y983430	H/L5	3.240	20.9	19.5-23.9	18.4	16.5-21.3	A/B	A	shock vein
Y983432	H5	4.212	18.8	17.9-20.1	16.9	16.3-19.3	A/B	A/B	
Y983434	H5	25.84	19.2	18.4-21.5	17.0	15.9-20.9	A/B	A	
Y983437	H5	40.43	18.7	18.1-20.0	16.6	15.5-18.6	A/B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983438	H6	19.14	19.0	17.4-20.3	16.6	15.3-17.6	C	A	
Y983439	H4	4.101	19.3	18.5-21.3	16.8	14.9-18.7	A/B	A	
Y983442	H6	23.53	19.5	17.8-20.8	16.9	16.7-17.4	B	A/B	
Y983443	H6	3.039	20.1	18.9-23.9	17.6	15.5-21.0	A/B	A/B	
Y983445	H6	7.467	20.0	18.8-22.4	17.4	16.2-20.1	A/B	A	
Y983446	H6	5.581	20.4	19.5-22.5	18.2	16.8-23.6	B	A/B	
Y983447	H6	3.072	20.2	18.5-24.3	18.0	16.7-21.7	A/B	A	
Y983448	L5	33.43	25.2	23.8-26.8	21.2	20.0-22.2	A/B	A/B	
Y983449	H6	4.950	19.8	18.5-22.9	17.6	15.1-19.6	C	B	shock darkened
Y983450	H6	11.03	19.9	19.3-21.8	17.7	15.8-22.5	A/B	A/B	
Y983451	H6	6.409	18.9	17.7-22.0	16.9	14.4-22.2	B	A	
Y983452	H6	4.888	20.6	19.1-23.8	18.2	16.4-23.4	B/C	A/B	shocked
Y983453	H6	4.446	20.5	19.0-22.0	18.1	17.0-20.4	A/B	A/B	shocked
Y983455	H6	3.328	19.6	18.7-20.8	17.0	16.2-18.0	A	A/B	
Y983457	H4	31.15	18.5	17.2-19.9	16.4	14.8-19.2	B	A	
Y983458	H5	3.343	19.9	17.6-22.1	17.4	16.0-19.3	A	A	
Y983459	L6	9.417	25.3	23.8-27.8	22.1	20.7-27.2	A	A	
Y983460	LL5	4.883	26.7	24.7-29.4	22.3	20.8-24.7	A	A	
Y983461	L6	7.622	25.6	24.6-28.4	22.0	21.1-24.7	A/B	A	
Y983462	H4	3.573	20.1	18.1-22.3	17.4	15.4-20.8	A/B	A/B	
Y983463	LL6	13.06	29.5	27.9-31.0	24.3	22.9-25.1	A	A	
Y983465	L6	8.586	26.0	24.4-30.9	22.3	20.9-24.7	A/B	A	
Y983466	L6	16.65	26.0	24.8-28.5	21.9	20.3-24.6	A/B	A	
Y983467	H6	5.398	20.5	18.7-23.1	17.9	16.5-21.3	B	A	
Y983470	H6	11.19	20.3	19.4-22.1	17.9	16.3-21.4	A/B	A	
Y983472	H5	11.38	20.0	10.4-25.6	17.6	16.3-19.8	C	A	
Y983473	H4	9.813	19.0	17.7-22.0	16.6	15.9-17.6	B/C	A	
Y983474	H5	3.613	19.3	11.1-23.2	18.7	7.7-27.6	B/C	A	
Y983475	H5	4.306	19.7	14.1-22.5	17.3	4.5-24.0	B	A	
Y983476	H4	16.91	19.2	18.1-20.5	17.2	15.6-21.8	B/C	A	
Y983478	L5	10.40	24.8	23.5-27.7	21.2	20.5-24.5	C	A/B	
Y983481	H5	168.2	18.9	17.3-22.2	16.3	15.3-18.9	B	A/B	
Y983482	H5	223.7	18.9	17.8-20.4	16.4	16.1-16.9	B	A/B	
Y983484	LL5	110.8	31.6	30.6-33.2	25.3	24.6-25.9	A	B	breccia
Y983485	H5	9.453	18.7	17.7-20.5	16.8	16.0-19.1	B	A	
Y983486	H5	8.412	19.9	18.6-22.2	17.1	16.1-19.1	B/C	A	
Y983487	H5	9.307	19.2	18.2-22.5	17.1	15.8-20.4	B/C	A/B	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983488	L5	84.86	24.4	23.7-25.7	20.6	19.9-21.0	A/B	C	
Y983489	H4	7.058	19.0	9.8-21.3	17.2	16.4-19.0	B/C	A	
Y983490	H6	4.544	20.5	19.6-22.5	18.3	17.2-21.9	B/C	A	
Y983491	L5	53.39	24.2	22.9-25.8	20.0	19.5-21.6	B	B	shock vein
Y983492	L5	31.39	24.2	23.2-25.4	20.1	18.0-22.4	A	B	shock vein
Y983493	L5	28.13	24.2	21.9-27.7	20.7	19.9-21.9	B	A/B	shock vein
Y983494	H5	32.01	18.4	17.6-19.5	16.2	15.2-16.8	C	A	
Y983495	L5	8.283	25.3	24.2-28.2	21.4	19.9-23.7	A/B	A	
Y983497	L5	4.003	25.7	24.6-29.5	21.9	20.9-23.5	A/B	A	
Y983498	L5	7.489	24.8	23.7-27.1	21.1	19.0-22.9	A	A	
Y983499	L/LL3	40.94		0.2-36.1		1.0-34.4	C	A	
Y983500	L5	232.7	25.0	23.8-26.8	21.0	19.7-22.1	B/C	A/B	
Y983501	L6	12.68	25.6	24.4-26.7	21.6	19.9-22.6	A	A/B	
Y983502	L6	3.170	26.0	24.7-27.4	21.7	20.9-22.1	B/C	A/B	shock vein
Y983504	H5	40.77	19.2	17.9-20.4	17.0	16.1-19.4	B/C	A/B	
Y983505	H4	42.53	19.2	17.9-20.9	16.8	15.9-19.6	C	A/B	
Y983506	H5	96.02	19.2	18.2-21.1	17.0	15.7-17.8	C	A/B	
Y983507	H5	65.24	19.0	18.4-20.0	16.7	15.0-19.6	C	A/B	
Y983508	LL br	4.866		26.5-31.8		23.0-25.3	B	A	monomict breccia, shock darkened
Y983509	H5	30.75	18.9	17.8-21.5	16.7	15.6-19.0	B	A/B	
Y983510	H4	6.696	19.9	18.6-23.2	17.3	15.8-21.5	B	A	
Y983512	H4	12.70	19.9	18.2-24.6	16.6	15.8-17.2	B/C	A	
Y983513	H4	4.658	19.6	18.8-20.3	17.0	15.7-19.8	C	A	
Y983514	H4	26.65	19.4	18.2-21.9	17.3	16.3-19.3	B	A/B	
Y983515	H5	20.65	18.4	17.5-19.1	16.1	15.2-16.8	C	A	
Y983516	H4	4.097	20.0	18.2-26.3	18.4	16.9-23.6	B/C	A	
Y983518	H4	38.57	19.0	18.2-20.7	16.6	15.6-20.0	B/C	A/B	thin shock vein
Y983519	H4	51.25	18.9	18.1-20.5	16.9	15.2-18.7	B/C	A	
Y983520	L6	6.272	25.1	24.3-27.7	21.7	19.8-23.6	B	A/B	shock vein
Y983522	H5	57.37	19.1	17.9-22.0	17.4	16.2-19.6	B	A/B	
Y983523	H5	26.06	19.3	18.3-21.9	16.6	15.1-18.9	B	A	
Y983524	H4	8.105	19.9	18.7-22.7	17.2	15.6-19.7	B/C	A	
Y983525	H4	7.780	19.9	18.7-23.3	18.4	15.6-22.6	B/C	A	
Y983526	H4	29.17	18.8	18.0-19.8	17.0	15.3-20.5	B	A	
Y983527	H4	24.78	19.3	18.0-21.1	16.6	15.3-17.8	B	B	
Y983528	L6	3.274	25.2	24.0-27.0	21.3	20.0-22.3	B	A	
Y983530	H4	39.71	19.1	18.0-20.9	16.6	15.9-18.2	B/C	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983531	H4	62.61	18.7	17.7-19.9	16.4	15.8-17.3	C	A	
Y983532	LL melt br	3.664		24.5-29.6		22.3-24.4	B	A	darkened
Y983533	LL melt br	16.87		28.1-33.8		22.2-26.1	B	A	darkened
Y983534	Euc, br	13.61				58.1-61.9		A	An74.4-93.1
Y983535	H3	52.21		16.4-18.4		7.8-30.8	B/C	A/B	
Y983537	H4	197.2	19.1	18.3-21.0	16.4	15.3-17.5	B	B	
Y983539	H4	3.247	19.9	18.0-26.4	16.8	15.6-18.3	B	A	
Y983540	H4	91.70	19.1	18.4-20.0	16.5	15.5-17.7	B	A	
Y983541	H5	60.63	19.0	18.1-19.6	16.8	15.7-18.2	B/C	A/B	
Y983543	H6	11.25	19.9	18.9-23.8	17.8	16.4-23.6	C	A/B	
Y983544	H5	6.871	19.4	18.9-20.2	17.7	16.3-21.3	C	A	
Y983545	H5	9.976	19.6	18.4-22.6	17.0	16.1-17.7	C	A	
Y983548	H5	15.92	19.3	18.7-21.8	17.9	15.3-21.2	C	A	
Y983551	H/L6	6.906	21.5	19.8-24.5	18.5	16.4-23.4	C	A	shock melt
Y983552	L6	9.977	26.0	24.9-28.8	21.8	19.8-24.1	C	A/B	
Y983555	H6	7.095	19.5	18.6-21.3	17.3	16.7-17.9	C	A	
Y983556	H5 br	4.063	19.1	18.3-20.3	17.3	15.4-21.6	C	A	
Y983557	H6	89.13	19.7	18.0-38.1	16.6	15.7-17.6	C	B	
Y983558	H6	5.191	20.6	19.2-23.4	18.3	17.0-21.3	C	A	
Y983559	H5	4.401	19.1	17.8-22.5	16.7	15.1-18.6	B/C	A/B	
Y983561	H5	25.88	18.4	17.6-19.4	16.6	15.6-18.8	C	A/B	
Y983562	H5	24.26	18.4	17.2-20.1	16.5	15.5-19.3	C	A/B	
Y983563	H5	34.54	18.2	17.2-19.2	16.2	14.7-17.7	C	A	
Y983564	LL6	5.013	27.9	26.2-30.4	23.2	22.1-25.5	B	A/B	
Y983565	H5	6.980	19.2	17.7-23.5	17.3	15.4-19.5	C	A/B	
Y983567	H6	4.983	19.7	18.3-22.0	17.1	16.1-20.2	C	A	
Y983569	H5	190.5	19.3	18.1-21.3	17.4	15.7-21.3	C	B/C	
Y983572	H5	8.188	19.8	18.5-23.4	18.2	16.3-25.4	C	A/B	
Y983573	H4	10.71	19.7	17.8-22.0	18.0	15.5-22.6	B	A/B	
Y983574	H5	7.402	20.1	18.9-22.3	17.8	16.3-20.0	B/C	A	breccia
Y983577	H3	3.467		17.3-20.2		12.1-18.7	B/C	A	
Y983578	H3	9.981		18.4-21.9		14.5-19.9	C	A	
Y983579	H4	11.08	19.4	18.5-20.8	15.6	6.9-19.6	C	A/B	
Y983580	L6	31.25	24.9	24.2-25.7	21.1	20.1-22.2	A	A	shocked, maskelynite
Y983581	L6	29.28	24.9	23.8-27.9	21.0	20.1-23.3	C	A	shocked, maskelynite
Y983583	H5	4.498	19.7	18.8-21.1	17.1	16.3-18.2	C	A	
Y983584	L6	11.39	25.4	24.3-28.4	22.1	20.0-26.4	C	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983585	L5	41.83	24.2	22.5-25.9	20.6	19.7-21.4	A	B/C	
Y983586	L6	3.470	24.7	22.2-27.4	21.2	20.2-23.1	B/C	A/B	
Y983587	H6	20.38	19.6	18.7-22.0	17.3	16.3-19.4	C	A/B	shock vein
Y983588	H6	13.88	20.7	19.5-23.0	18.1	16.7-21.4	B/C	B	
Y983589	CO3	35.16		0.3-45.1		0.7-17.5	B	A	
Y983591	LL4	12.46	29.1	28.3-30.4	23.8	22.7-25.0	C	A	
Y983592	H4	76.83	17.4	16.9-18.2	16.4	14.9-23.7	C	A/B	
Y983593	L5	26.34	24.3	22.9-25.5	20.5	18.1-22.4	C	A	shocked
Y983594	LL melt br	5.822		24.4-33.2		20.0-25.7	A	A	melt rock, coarse-grained
Y983595	L melt br	8.386		20.4-27.5			B/C	A	melt rock
Y983596	H5	29.98	18.7	17.8-20.1	16.5	15.7-19.3	C	A	
Y983597	H5	30.86	19.9	18.7-23.3	17.7	16.1-21.2	C	B	
Y983598	L5/6	8.805	26.0	23.4-29.1	21.9	20.2-25.6	B	A/B	
Y983599	H5	57.28	19.2	18.2-22.8	17.0	16.3-17.7	C	A/B	
Y983600	H5	26.33	19.0	18.1-20.0	16.2	14.9-16.7	C	A	
Y983601	H6	43.17	19.3	18.4-20.3	16.8	15.6-17.6	C	A	
Y983602	H6	11.91	19.9	19.0-22.4	17.7	16.7-20.3	C	A/B	
Y983603	H6	14.18	20.0	19.1-21.4	17.4	15.9-21.0	C	A	
Y983604	H4	12.38	18.8	17.4-25.0	17.1	14.9-21.8	B	A	
Y983606	H4	86.63	18.5	17.6-19.4	16.2	14.6-18.1	B	A	
Y983607	H4	12.24	19.5	18.9-20.4	17.8	16.2-21.1	B	A	
Y983608	H4	10.13	19.3	17.4-21.7	17.5	15.6-21.3	C	A	
Y983609	LL melt br	7.337		27.2-31.3		22.9-24.8	A	A	
Y983610	L6	11.54	25.7	23.9-27.2	21.5	20.7-23.8	A	A	
Y983611	H4	41.42	18.2	17.3-20.3	16.7	15.0-20.2	B/C	A	
Y983612	H4	12.33	19.9	18.6-24.1	17.9	16.8-20.7	B/C	A	
Y983618	H6	4.757	20.7	19.4-21.9	18.1	16.9-21.0	C	A/B	
Y983619	H6	12.09	20.3	19.3-22.2	18.2	16.7-23.4	C	A/B	
Y983620	L6	141.5	24.2	23.0-25.6	20.7	18.7-25.8	B/C	B	shocked
Y983621	H6	9.048	20.1	19.0-22.1	18.0	16.5-22.4	C	A/B	
Y983622	H5	8.539	19.4	18.5-21.6	17.4	16.1-19.7	C	A	
Y983623	H5	9.916	19.3	17.4-20.1	17.1	16.3-18.2	C	A	
Y983624	H6	13.32	20.3	18.7-22.5	18.1	16.3-22.5	A/B	A	
Y983626	L6	15.69	25.0	23.4-27.8	21.5	20.5-25.6	A	A/B	
Y983627	H5	10.80	18.9	18.1-19.7	16.6	16.2-17.0	C	A/B	
Y983628	H6	21.91	19.6	18.3-22.5	17.2	15.9-20.5	A	A	
Y983629	H/L6	4.455	20.9	19.8-23.1	18.5	17.0-20.9	A/B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983630	H6	22.77	19.9	18.5-20.8	17.1	15.3-17.7	B	A	
Y983632	LL melt br	3.338		22.2-30.8		22.0-26.5	A	A	
Y983634	LL melt br	14.69		19.4-22.8		16.6-22.1	B	A	
Y983635	LL melt br	11.67		26.7-31.3		21.7-25.6	A	A/B	
Y983636	LL melt br	8.992		26.2-31.6		22.9-26.5	A	A	
Y983637	LL melt br	6.899		20.4-30.0		23.2-24.7	A	A	
Y983638	LL melt br	41.52		25.7-31.3		20.7-24.6	A	A	
Y983639	LL melt br	8.588		27.1-34.3		23.0-27.6	A	A/B	shock melted
Y983640	LL melt br	8.442		22.1-30.3		22.2-25.6	A	A/B	
Y983642	LL melt br	7.504		27.2-30.2		23.0-27.9	A	A	
Y983643	LL melt br	4.614		25.6-32.8		24.3-24.6	A	A	
Y983644	H5	14.95	19.4	18.3-21.1	17.7	15.8-20.6	A	A	
Y983645	H5	164.9	18.6	17.5-21.1	16.8	14.8-19.9	A/B	B	
Y983646	H6	7.272	20.7	19.0-23.1	19.1	17.0-22.9	A/B	A/B	
Y983647	H4	15.06	20.2	18.9-24.7	17.3	15.9-18.9	A/B	A/B	
Y983648	H5	12.57	19.6	18.1-22.6	17.7	15.3-21.0	A/B	A	
Y983649	L6	94.35	25.3	24.5-27.4	20.7	19.9-22.2	A	B	
Y983650	H4	3.347	19.6	18.5-21.4	17.6	16.2-20.6	A/B	A	
Y983651	H6	7.127	19.0	16.8-22.3	17.0	15.6-19.9	A/B	A	
Y983652	H6	17.32	20.1	18.5-21.8	17.7	16.9-20.0	B	B	
Y983653	H6	8.884	20.2	19.1-22.3	17.7	17.0-19.0	A/B	A	
Y983654	L6	14.01	25.7	24.6-27.2	22.0	21.0-24.3	A	A	
Y983655	H5	4.647	20.2	19.0-23.0	17.7	15.8-20.1	B	A/B	
Y983658	LL6	7.207	26.2	24.3-29.4	22.2	19.9-27.0	A	A	
Y983659	H4	29.79	18.8	17.6-22.3	16.7	16.5-20.2	B	A/B	
Y983660	H4	28.88	18.9	17.7-21.0	16.5	15.5-17.4	C	A	
Y983662	H4	8.247	19.9	17.9-23.4	17.8	15.4-22.3	B	A/B	
Y983663	LL melt br	9.600		23.6-32.9		21.9-25.8	B/C	A	
Y983664	L melt br	3.452		20.1-32.8		24.0-26.1	B	A/B	
Y983665	H5	6.080	19.5	18.6-20.7	18.4	16.7-22.4	C	A	
Y983666	LL melt br	8.355		26.9-32.5		18.5-26.1	A/B	A/B	
Y983667	LL melt br	7.425		25.9-30.2		21.3-23.6	B	A	
Y983668	LL melt br	7.746		22.9-32.0		13.9-26.8	B	A	
Y983673	LL melt br	11.84		26.2-29.1		17.8-24.3	B/C	A/B	
Y983674	LL melt br	8.207		26.0-31.3		21.5-24.7	B	A	
Y983675	LL melt br	5.368		13.4-29.5		11.1-26.7	A/B	A	chondule relicts
Y983676	LL melt br	3.700		26.3-30.6		20.8-25.6	A/B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983677	LL melt br	4.216		25.2-30.1		23.4-25.1	A/B	A/B	
Y983678	LL melt br	5.647		24.5-30.8		20.9-24.8	C	A	
Y983679	LL melt br	3.953		27.1-30.9		22.1-25.5	A/B	A/B	
Y983680	LL melt br	4.065		21.9-33.0		23.9-26.9	A	A	
Y983681	LL melt br	3.732		26.7-31.4		22.3-26.6	B	A/B	
Y983682	LL melt br	3.730		20.5-32.3		25.9-25.9	B	A	
Y983686	LL melt br	4.682		26.7-30.7		22.6-24.4	A/B	A	
Y983687	LL melt br	61.54		16.9-32.0		13.9-26.3	A	A	
Y983688	LL melt br	40.32		17.8-28.8			A/B	A	very fine-grained
Y983689	LL melt br	36.72		25.5-28.9		8.9-24.4	B	A/B	
Y983690	LL melt br	7.851		27.4-31.0		23.5-24.8	A/B	A/B	
Y983691	LL melt br	3.707		19.7-34.8		22.8-25.2	A	A	
Y983692	LL melt br	5.399		27.3-30.4		21.3-24.8	B	A/B	
Y983693	LL melt br	8.748		21.2-30.3		24.8-24.8	A	A	
Y983694	LL melt br	29.24		24.2-29.7		11.8-26.3	B	A	
Y983695	LL melt br	9.599		26.3-31.2		22.4-25.7	B	A	
Y983696	LL melt br	3.877		28.8-32.5		22.9-25.1	A/B	A	
Y983700	LL5	21.71	27.8	26.1-29.9	23.4	22.9-23.8	A	A	darkened
Y983701	LL5	5.278	29.1	27.6-34.3	24.6	22.7-26.9	A	A	darkened
Y983702	H4	65.12	18.9	17.7-20.5	16.3	14.7-18.9	B	B/C	
Y983703	H4	13.77	19.4	18.7-20.1	17.1	16.4-17.5	C	A	
Y983704	H4	6.231	19.5	18.6-21.5	17.0	15.4-19.2	B	A	
Y983705	H5	80.71	19.4	18.0-22.4	16.8	15.6-19.0	C	B	
Y983706	H3-6 br	36.90		12.6-25.2		6.6-23.9	C	A/B	genomict breccia
Y983707	H4	5.298	20.3	16.8-24.9	18.1	16.5-21.3	C	A	
Y983708	H4	3.500	19.6	18.0-21.1	18.0	16.4-22.1	C	A	
Y983709	H4	3.552	20.0	18.4-24.9	18.0	16.0-20.2	B/C	A	
Y983715	H4	103.1	19.3	17.1-21.3	16.3	11.4-19.1	B/C	A	
Y983716	H4	116.2	18.6	17.5-21.0	16.2	15.0-18.2	B/C	B	
Y983719	L6	5.617	26.4	23.8-30.6	22.7	21.2-25.5	B	A	shock vein, ringwoodite
Y983720	R4	13.89	39.6	12.8-46.9			A	A/B	monomict breccia
Y983722	H4	18.90	19.1	18.1-21.1	16.5	15.6-18.1	B	A	
Y983723	H4	127.1	19.4	18.3-23.3	16.6	15.9-17.6	B	A	
Y983724	H4	4.646	19.7	18.8-21.2	17.6	16.6-20.3	B	A	
Y983726	H4	12.38	19.0	17.5-22.2	16.9	15.3-20.9	B	A	
Y983727	H4	9.795	18.8	17.7-21.9	16.8	15.2-18.7	B/C	A	
Y983728	H4	5.994	18.6	17.9-22.0	16.6	15.3-18.2	B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983729	L melt br	4.044		22.7-32.5		22.8-23.5	C	A	
Y983730	H4-5 br	26.49	19.3	18.2-21.2	16.8	14.8-19.9	B	B	genomict breccia
Y983731	H4	15.73	20.3	18.2-24.2	18.0	15.1-21.3	B	A	
Y983732	H4	28.76	18.9	17.9-21.3	16.7	15.3-19.0	B	A	
Y983733	H4	13.95	20.0	18.9-23.4	17.5	15.8-21.8	B/C	A/B	
Y983734	H4	3.107	19.8	18.3-23.5	16.9	15.6-18.5	B	A	
Y983735	LL melt br	3.525		27.5-31.2		26.0-26.0	A	A	
Y983736	L melt br	15.71		22.2-29.0		19.7-19.7	B	A	melt rock
Y983738	LL melt br	5.530		28.8-31.6		23.4-30.8	B	A	
Y983742	LL br	9.562		26.5-33.7		24.2-25.0	A/B	A	monomict breccia
Y983745	LL melt br	5.872		26.4-35.2		20.4-30.1	C	A	melt rock
Y983746	LL melt br	16.83		25.7-31.6		18.0-25.7	C	A	melt rock
Y983747	H4	6.321	19.9	18.6-22.7	17.6	16.8-19.6	B/C	A	
Y983748	L6	301.0	25.0	24.2-27.3	20.7	20.0-22.0	C	B/C	
Y983749	H4	64.20	18.0	17.0-19.0	16.1	15.1-18.1	B/C	A	
Y983750	LL melt br	18.92		18.3-22.1		16.0-21.5	A	A/B	
Y983752	L6	4.231	25.5	23.9-28.7	21.6	20.6-23.2	C	A/B	
Y983753	H6	5.986	20.6	19.2-23.5	18.4	15.4-22.8	B/C	A/B	shock vein
Y983754	H4	6.856	19.3	17.5-21.9	16.6	15.2-19.1	C	A	
Y983755	L6	7.861	25.1	23.9-27.4	21.6	20.2-23.1	B	A	
Y983756	L6	79.02	23.8	17.8-26.3	20.7	19.7-24.1	B/C	B	shock vein
Y983757	L6	68.24	24.2	23.3-26.2	20.1	19.3-20.7	B/C	A/B	shock vein
Y983758	L6	20.38	22.8	15.4-25.2	21.0	19.6-25.1	C	A/B	shocked, maskelynite
Y983759	L6	13.00	24.2	19.4-26.9	21.7	20.0-26.4	C	A	shocked, maskelynite
Y983761	H4	13.91	18.4	17.5-19.9	16.4	14.8-18.9	C	A/B	
Y983762	H5	15.51	18.1	17.2-19.0	16.0	14.8-16.9	C	A/B	
Y983764	H6	3.570	19.1	16.9-22.0	16.8	15.1-19.8	C	A	fizzed troilite
Y983766	L6	20.69	24.1	23.1-25.5	21.0	19.5-26.5	C	A/B	shocked, maskelynite
Y983767	H4	7.770	19.3	18.5-21.2	16.8	15.5-17.5	B/C	A	
Y983768	L6	18.98	24.4	23.3-26.4	20.8	19.8-23.0	A/B	A/B	shocked, maskelynite
Y983769	L6	5.740	24.2	22.8-26.8	21.5	20.2-28.8	B	A	maskelynite ,fizzed troilite
Y983770	L6	6.565	24.4	22.8-27.7	21.5	19.5-24.3	B/C	A/B	shock vein
Y983771	L6	355.0	24.1	23.2-25.3	20.7	18.9-24.1	B	B/C	shocked, maskelynite
Y983772	L6	176.7	24.1	23.0-25.9	20.3	19.1-21.2	B	B	shocked, maskelynite
Y983773	L6	18.99	25.7	24.0-28.5	21.8	20.6-24.9	C	A/B	
Y983774	H5	11.54	19.9	18.4-21.9	17.4	16.1-19.9	B	A	shocked, fizzed troilite
Y983775	H5	6.965	19.3	18.3-20.7	17.6	16.0-22.0	C	A	shocked, fizzed troilite

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983776	H5	7.312	19.5	18.2-21.2	18.0	16.1-22.6	B/C	A	shocked, fizzed troilite
Y983777	H6	7.734	19.9	17.7-25.0	17.8	16.3-20.4	A/B	A	
Y983778	H5	9.146	19.7	18.6-22.5	17.2	15.1-18.8	A	A	
Y983779	H5	7.909	19.8	18.3-23.2	17.7	15.6-24.6	A	A	
Y983780	H5	6.703	19.7	18.3-22.6	17.2	16.4-18.8	A	A	
Y983781	H6	7.492	19.9	18.3-23.2	18.2	16.8-23.6	A/B	A	
Y983782	H6	7.431	19.6	18.4-22.4	17.6	16.1-21.0	A	A	
Y983783	H5	6.278	19.8	18.4-23.6	18.6	15.4-21.4	A/B	A	
Y983784	H5	5.930	19.6	18.2-21.5	17.8	15.9-21.0	A/B	A/B	
Y983785	H5	5.927	19.9	18.5-23.7	17.2	15.2-18.6	A/B	A	
Y983786	H5	4.924	19.7	17.9-21.6	18.1	16.3-21.5	A/B	A	
Y983787	H5	4.744	20.1	18.3-23.6	17.9	15.3-21.5	A	A	
Y983788	H4	6.518	19.7	18.6-21.3	17.7	16.3-20.8	A/B	A	
Y983789	H4	4.934	19.7	18.2-23.3	18.3	15.8-20.4	A	A	
Y983790	H4	4.604	20.2	18.7-24.3	18.6	16.8-21.0	A	A	
Y983791	H5	4.654	20.0	17.7-25.3	17.4	16.0-19.5	A/B	A	
Y983792	H4	5.924	20.1	18.2-23.8	17.8	16.3-21.0	A	A	
Y983793	H5	4.320	20.1	18.4-25.1	17.4	14.6-22.0	A	A	
Y983794	H5	5.237	19.5	18.6-21.9	17.4	16.3-19.1	A/B	A	
Y983795	H4	4.978	20.0	18.3-22.7	17.8	16.2-21.0	A	A	
Y983796	H5	3.760	19.8	18.8-23.7	17.9	16.5-20.9	A	A	
Y983797	H5	3.968	19.8	18.7-21.1	17.6	16.1-20.3	A/B	A	
Y983798	H5	4.703	19.9	18.8-22.4	17.2	14.9-19.6	A	A	
Y983799	H5	3.184	20.0	18.9-23.6	18.1	16.7-20.2	A	A	
Y983800	H5	3.127	19.9	18.2-23.0	18.4	15.6-20.7	A	A	
Y983801	H5	3.258	19.9	18.1-22.0	18.3	16.4-21.4	A	A	
Y983806	H5	4.834	19.8	18.3-22.9	18.4	16.7-21.2	A	A	
Y983807	Dio	17.36			33.6	30.6-35.6		A	type B, An88.3
Y983809	H5	52.91	19.0	18.1-20.1	16.7	15.2-19.4	B	A	
Y983810	H5	17.89	19.7	18.2-24.3	17.4	16.3-20.1	A	A	
Y983811	H6	13.74	19.4	18.4-21.7	16.9	14.6-19.3	A/B	A	
Y983812	H4	15.10	19.7	18.5-22.6	17.6	16.0-19.7	A	A	
Y983813	H4	14.65	19.8	18.4-21.4	17.2	16.5-19.2	A	A/B	
Y983814	H4	11.70	19.7	18.3-22.8	18.0	15.9-25.0	A	A	
Y983815	H4	12.81	19.7	18.2-21.6	18.4	16.2-21.2	A	A	
Y983816	H4	9.964	19.5	17.9-21.6	17.7	15.8-21.2	A/B	A	
Y983817	H4	8.700	19.5	18.4-22.9	17.8	16.4-21.9	A	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983818	H4	7.557	19.6	18.2-22.2	17.6	15.8-21.4	A/B	A	
Y983819	H4	6.252	20.0	18.3-23.6	17.5	15.3-20.1	A/B	A	
Y983820	H4	7.221	19.4	17.6-22.4	18.5	16.6-21.4	A/B	A	
Y983821	H4	3.055	19.6	17.9-22.8	17.7	16.0-20.1	A	A	
Y983822	H4	3.792	19.5	18.1-21.3	18.0	16.5-22.2	A	A	
Y983824	H4	4.038	19.2	17.8-20.6	18.0	15.9-19.9	A/B	A	
Y983825	H4	5.534	19.8	18.3-23.4	17.5	14.5-20.8	A/B	A	
Y983827	H4	3.405	20.0	17.9-23.5	17.1	15.7-19.2	A/B	A	
Y983828	H5	81.56	19.3	18.5-20.3	16.9	15.8-17.5	B/C	A/B	
Y983829	H4	55.79	19.2	18.0-22.0	16.9	15.7-20.2	A	A	
Y983830	H4	50.58	19.3	17.9-21.1	16.6	15.7-19.1	A/B	A	
Y983831	H4	42.90	19.1	17.3-21.5	17.7	16.1-20.3	A/B	A	
Y983832	H4	29.95	19.0	17.6-21.1	16.5	15.4-18.6	B	A	
Y983833	H4	31.47	18.9	17.9-20.3	16.8	15.3-19.5	A/B	A	
Y983834	H4	29.84	19.2	17.9-20.9	16.8	15.6-18.4	A/B	A	
Y983835	H4	16.69	19.4	18.3-20.5	17.5	15.9-21.7	A	A	
Y983836	H4	20.28	19.1	17.7-20.2	16.9	15.7-20.4	A/B	A	
Y983837	H4	57.03	19.3	17.7-21.5	17.4	15.5-22.0	A	A	
Y983838	H4	41.15	18.9	18.1-22.2	17.5	15.3-20.1	A/B	A/B	
Y983839	H4	19.04	19.5	17.9-21.9	17.2	15.6-20.1	A/B	A	
Y983840	H4	15.54	19.8	17.2-22.6	17.2	15.8-19.1	A/B	A	
Y983841	H4	12.16	19.5	18.3-22.3	17.9	15.3-20.7	A	A	
Y983842	H4	10.39	19.7	18.4-22.0	17.9	15.6-20.1	A/B	A	
Y983843	H4	12.50	19.4	18.6-21.5	19.2	15.9-23.6	A	A	
Y983844	H4	9.219	19.7	18.4-22.4	18.2	16.5-21.6	A/B	A	
Y983845	H4	8.558	19.8	18.1-22.9	18.5	16.1-27.0	B	A	
Y983846	H4	44.17	19.1	17.0-22.0	16.5	15.0-18.8	B	A/B	
Y983847	H4	33.75	19.1	17.9-21.3	16.8	15.5-19.8	B	A	
Y983848	H4	18.30	20.1	18.5-22.7	17.5	16.1-23.0	B	A	
Y983849	H4	4.195	19.1	17.4-21.2	18.0	16.4-20.7	B	A	
Y983850	L5	32.16	25.1	23.4-27.7	21.7	20.1-23.2	B	A/B	
Y983851	L6	29.86	25.0	23.9-26.0	20.8	19.4-22.3	B	A	
Y983852	H4	70.64	19.3	17.7-21.2	16.4	14.8-17.5	B/C	A/B	
Y983853	H4	6.011	19.4	18.6-22.4	18.1	16.5-20.2	B	A	
Y983854	H4	4.247	19.6	18.2-21.3	17.7	16.1-22.3	B	A	
Y983856	LL6	7.438	31.3	30.2-34.7	25.4	22.6-28.9	B	A/B	
Y983857	H4	6.727	19.7	18.6-21.5	17.2	15.8-18.3	A/B	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983858	H5	8.140	20.6	19.1-25.3	18.3	16.9-20.6	B	A	
Y983859	L5	97.09	25.2	24.6-27.3	21.6	19.9-26.3	B	A/B	
Y983860	H4	18.44	19.0	18.2-21.6	17.4	15.2-19.1	B	A	
Y983861	H5	139.3	19.0	17.8-20.1	16.6	15.7-17.7	C	A/B	
Y983862	H4	5.672	19.6	18.5-21.6	18.1	16.1-23.6	C	A	
Y983863	H4	7.252	20.0	18.8-22.1	18.6	16.9-22.5	B	A	
Y983864	H4	3.866	20.1	18.6-22.6	17.7	15.1-23.0	B	A	
Y983865	H4	4.266	19.6	17.9-23.4	16.9	15.9-9.2	B/C	A	
Y983867	L6	16.32	25.8	24.6-29.0	22.1	21.4-23.5	B	A	shock vein
Y983868	L6	4.523	25.3	24.1-28.1	22.0	19.7-25.9	B	A	
Y983869	H6	29.37	19.7	18.8-20.8	17.2	15.7-19.4	B	B	
Y983870	H4	4.068	19.5	10.5-22.3	17.8	16.4-21.1	B	A	
Y983871	H melt br	81.77		14.0-20.9		15.2-18.6	A/B	A	
Y983872	H4	7.169	20.0	18.3-24.0	17.6	16.4-29.3	C	A	
Y983873	H4	4.527	19.8	18.9-22.1	17.1	15.6-21.1	C	A	shock vein
Y983874	L5	34.61	25.3	23.9-27.8	21.1	20.1-22.5	B	A/B	shock vein
Y983875	H4	12.84	19.2	18.2-20.2	17.4	15.8-20.5	C	A/B	
Y983876	L4	5.247	25.3	23.9-28.5	21.1	19.1-24.2	B/C	A	
Y983877	H4	3.598	17.6	16.5-22.2	16.0	15.1-19.7	C	A	
Y983878	H5	3.413	20.6	19.7-23.9	17.8	15.8-20.5	C	A	
Y983879	L6	81.50	24.8	24.0-27.4	21.3	19.5-23.5	B/C	A	shocked, maskelynite
Y983881	H5	5.723	19.7	18.2-22.0	17.6	15.6-20.1	B/C	A	
Y983882	H4	5.814	18.7	17.3-19.8	16.9	14.7-18.8	B	A	
Y983883	L6	38.95	25.2	23.9-27.6	21.7	20.2-25.1	A	A	shocked, maskelynite
Y983884	L6	8.102	26.2	24.9-27.2	22.0	21.0-24.0	A/B	A	shocked, maskelynite
Y983886	H5	27.39	19.5	17.9-20.3	17.3	15.8-19.9	B/C	A/B	
Y983887	H4	25.80	20.0	19.2-20.8	17.4	16.4-18.8	B/C	A/B	
Y983889	H4	7.005	19.7	17.8-22.9	17.6	16.7-20.4	C	A	
Y983890	Ure, poly	10.79		3.3-28.0		14.9-15.7	C	A/B	
Y983896	EH3	10.26			1.5	0.1-5.3	B	A	Si in Fe metal = ~3.2 wt%
Y983897	H5	154.9	19.0	17.7-20.3	16.6	15.6-18.1	B	A/B	
Y983900	LL melt br	522.4		25.9-29.3		19.7-23.3	B	B	melt rock
Y983902	LL melt br	199.2		25.5-33.2		20.9-21.8	B	A	melt rock
Y983906	H5	21.76	18.5	16.7-21.1	16.2	15.1-17.2	B/C	A	
Y983907	H4	15.30	19.5	18.2-21.1	17.4	15.9-22.0	C	A	
Y983908	H4	7.218	19.9	18.5-23.8	18.1	15.5-24.9	C	A	
Y983910	H6	20.16	19.0	18.2-20.8	16.4	15.6-17.1	C	A	fizzed troilite

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983911	H5	133.5	18.5	17.3-19.3	16.0	14.0-17.0	C	A	
Y983912	H5	42.11	18.7	17.8-20.0	16.6	14.7-19.7	B/C	A	
Y983914	H3	107.6		14.2-15.5		3.6-20.8	B/C	B/C	
Y983915	H5	27.69	18.5	17.9-19.3	16.3	15.6-17.4	C	A	
Y983917	H5	15.98	19.8	18.2-21.5	17.6	16.1-20.0	B/C	A	
Y983918	L6	295.7	25.4	25.1-25.8	21.6	20.4-23.3	B	B	shocked, maskelynite
Y983920	H5	632.7	18.9	17.9-19.6	16.9	15.5-20.8	B	A	
Y983921	H5	10.70	20.1	18.8-24.1	17.9	16.2-21.6	B	A	
Y983922	H5	7.759	20.2	18.5-25.0	17.7	16.3-21.6	A	A	
Y983923	H5	7.695	20.2	18.7-22.8	17.4	15.6-20.3	A/B	A	
Y983924	H5	6.593	20.2	18.5-24.5	17.3	15.9-20.4	A/B	A	
Y983925	H5	4.535	20.0	18.9-24.6	17.9	16.4-20.8	A	A	shock vein
Y983926	H5	4.496	20.7	19.2-24.9	18.3	16.1-22.7	A/B	A	
Y983929	H6	101.1	18.2	17.0-18.9	16.1	15.3-16.8	B	A	
Y983930	H6	18.87	19.7	17.6-21.7	17.1	16.6-17.8	A	A	
Y983931	H/L4	8.123	21.3	12.7-29.4	13.2	4.9-28.0	A/B	A	
Y983932	H5	9.844	19.9	18.0-22.1	17.6	15.9-20.7	A/B	A/B	
Y983933	H5	7.054	19.8	17.8-23.3	17.5	16.0-20.9	A/B	A/B	
Y983935	H5	295.0	19.0	17.4-20.6	15.8	1.6-19.3	B	A	
Y983936	H5	162.4	18.2	17.4-20.5	15.9	15.0-17.5	A/B	A	
Y983937	H5	19.76	19.6	18.4-24.5	17.4	16.0-20.0	A/B	A	thick shock vein
Y983938	H4	20.65	15.5	12.3-19.5	14.3	4.0-25.3	A/B	A	
Y983940	H6	8.477	19.0	18.2-21.0	17.1	16.2-19.3	A/B	A	
Y983941	H6	46.38	19.8	18.2-21.9	17.3	15.7-20.7	A/B	A/B	
Y983942	H5	4.466	19.4	18.1-21.2	17.1	15.1-22.8	A/B	A	
Y983944	H6	11.93	19.8	18.4-21.8	17.8	16.2-20.3	A	A	
Y983945	H6	3.894	19.7	18.1-22.3	17.4	16.4-18.8	A	A	
Y983946	H5	7.942	19.7	18.7-22.2	17.1	15.2-19.8	A	A	
Y983947	L6	3.346	25.8	24.0-30.3	22.0	20.0-24.7	A	A/B	shock vein
Y983948	H5	4.645	19.8	18.5-24.2	17.1	15.8-18.9	A/B	A	
Y983950	H5	21.87	19.0	18.2-21.6	16.7	15.0-17.9	A/B	A	
Y983951	H5	7.023	18.6	13.6-22.4	14.2	3.1-19.3	A/B	A/B	
Y983955	H5	184.3	19.2	18.6-20.5	16.4	15.7-17.7	B	A	
Y983956	H5	14.24	20.5	18.9-27.4	17.5	16.2-21.1	A	A	
Y983957	H5	7.098	19.3	18.0-20.3	17.3	16.3-19.7	A/B	A	
Y983960	H6	6.754	19.9	18.9-25.7	17.4	16.1-22.8	B	A/B	
Y983964	LL5	4.250	29.7	28.3-32.7	24.5	23.1-26.9	A	A	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y983965	H5	94.74	18.8	18.1-20.0	16.3	15.1-17.1	A/B	A/B	
Y983966	H4	40.36	18.5	17.7-21.2	16.4	15.3-18.4	A/B	A	
Y983967	H3	27.71		13.5-18.3		5.6-21.8	B	A	
Y983970	L6	75.73	25.0	24.0-25.9	21.1	20.0-21.9	A	A/B	
Y983971	L4	16.81	24.6	23.1-26.6	20.9	20.0-21.9	A	A/B	
Y983975	L4	15.11	25.9	24.7-31.0	21.5	19.1-26.0	B	A	
Y983979	H4	194.5	19.0	18.1-20.4	16.5	14.8-17.7	A	A/B	
Y983980	H4	77.31	18.8	18.0-19.8	16.5	15.3-18.8	A/B	A	
Y983981	H4	60.53	19.1	17.8-20.6	16.6	15.1-19.9	B	A	
Y983982	H4	22.42	19.0	18.3-21.9	16.5	16.0-17.4	B	A	shock vein
Y983983	H4	13.70	20.0	18.7-22.8	17.5	16.4-21.5	A	A/B	
Y983984	H4	17.21	19.6	18.5-23.1	17.7	15.6-22.5	A/B	A	
Y983985	H4	8.015	20.5	18.4-24.0	17.3	16.0-19.5	A/B	A	
Y983986	H4	7.478	20.2	18.9-23.3	17.3	15.6-19.8	B	A/B	
Y983987	H4	9.181	19.5	18.1-23.8	17.6	15.9-21.5	A	A	
Y983988	H4	6.192	19.8	18.1-22.5	17.0	15.9-19.0	A/B	A	
Y983989	H4	4.981	19.8	18.1-23.8	17.3	16.1-19.4	A	A	
Y983990	H4	3.475	19.7	18.6-23.6	17.6	16.1-19.9	A/B	A	
Y983991	H4	35.09	18.7	18.1-19.4	16.2	15.1-18.3	B	A	
Y983992	H4	82.19	18.1	17.5-19.8	15.7	14.6-17.3	B/C	A	
Y983995	H4	6.673	18.9	17.3-20.7	17.2	15.9-19.4	A/B	A	
Y983999	H5	6.332	19.1	17.4-22.2	17.0	16.3-20.2	B	A	
Y984000	L6	5.929	25.9	25.0-27.7	21.7	20.8-22.7	A	A	
Y984002	L6	21.23	25.1	23.8-26.2	21.1	20.6-22.1	A/B	A	
Y984003	L6	6.085	26.0	25.1-28.6	22.1	20.8-25.1	B	A	
Y984004	L6	12.36	26.0	25.0-29.0	21.9	20.9-22.7	A/B	A/B	
Y984005	H6	8.822	19.6	18.2-22.9	17.4	16.3-21.4	B	A	monomict breccia
Y984006	H4	6.950	19.8	18.1-22.5	17.1	15.2-19.7	B	A	
Y984007	L6	12.36	26.5	24.8-30.3	22.2	20.5-25.8	A/B	A	shock vein
Y984008	L6	41.23	24.9	23.7-27.1	21.2	20.3-23.4	A/B	A	shock vein
Y984009	H4	9.480	18.8	16.5-21.7	17.8	15.9-19.6	B/C	A	shock vein
Y984017	H4	41.29	18.9	18.3-20.4	16.5	15.1-17.8	B	A	
Y984018	H4	15.99	19.4	18.1-22.3	17.9	16.2-21.0	B	A	
Y984019	H4	4.691	19.6	17.1-23.7	17.7	16.2-20.3	B/C	A	
Y984021	H4	49.16	18.7	18.0-19.6	16.4	15.4-17.7	B	A	
Y984022	H4	3.562	19.3	18.3-21.6	16.9	14.9-20.6	B	A	
Y984025	H4	6.564	19.1	17.8-22.1	17.3	15.6-24.0	B/C	A/B	

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y984026	H4	10.06	19.0	18.5-19.8	17.1	15.8-20.9	C	A	
Y984027	H5	13.93	19.4	18.3-20.9	16.8	16.2-18.0	B/C	A	
Y984029	L4	54.92	24.6	22.7-25.6	20.5	19.5-21.2	B	A	monomict breccia, shock darkened
Y984030	H4	16.66	18.2	17.3-18.6	16.0	13.8-17.0	C	A	
Y984031	L4	12.08	25.2	24.3-27.4	21.3	20.0-23.4	B/C	A/B	monomict breccia, shock darkened
Y984032	L4	8.104	25.1	22.9-30.0	21.1	19.4-23.2	B	A	monomict breccia, shock darkened
Y984034	L4	24.89	24.5	23.5-26.4	20.7	19.6-22.2	B	A	monomict breccia, shock darkened
Y984035	L4	13.65	25.0	23.9-26.7	20.9	19.6-23.2	B	A	monomict breccia, shock darkened
Y984036	L4	10.07	25.0	23.8-27.4	20.6	18.6-22.0	B	A	monomict breccia, shock darkened
Y984039	H4	39.17	18.3	17.4-19.2	15.8	14.5-16.4	C	A	
Y984040	L4	7.360	23.8	21.8-25.6	18.3	10.0-24.3	B	A	
Y984041	H4-6 br	9.030	19.4	18.1-23.2	17.1	15.1-19.8	B	A	genomict breccia
Y984043	H5	21.69	19.4	16.0-31.1	17.0	8.6-22.3	C	A	
Y984044	CM	62.16	12.4	0.2-40.5	2.0	0.4-5.9		A/B	
Y984045	L3	15.21		24.1-29.1		13.7-23.7	A/B	A	
Y984046	H4	3.173	18.3	17.0-21.1	16.3	13.9-19.2	B	A	
Y984047	H4	19.28	18.9	17.7-21.3	16.9	15.5-19.1	C	A	
Y984048	H4	14.22	18.9	17.8-21.9	16.5	14.8-20.7	C	A	
Y984049	H4	5.296	19.1	17.9-22.9	16.8	15.6-18.8	C	A	
Y984051	H4	216.2	18.7	18.0-19.9	16.7	15.6-19.8	C	A/B	
Y984052	H4	126.5	18.7	18.0-19.9	16.5	15.7-17.6	B	B	
Y984053	H4	49.89	18.3	17.3-20.2	16.1	13.9-17.6	B/C	A/B	
Y984054	H4	22.96	18.5	17.4-23.0	16.1	15.5-17.2	C	A	
Y984055	H4	21.56	18.4	17.2-20.6	16.3	15.3-17.3	B	A	
Y984057	EL6	6.820			0.4	0.0-1.6	B	A/B	Si in Fe metal = ~0.9 wt%
Y984058	EL6	3.337			0.5	0.0-2.5	B/C	A/B	Si in Fe metal = ~0.9 wt%
Y984062	H6	62.66	19.2	17.8-20.0	16.5	15.9-17.3	C	A	
Y984063	H4	12.89	18.3	17.3-19.9	16.0	13.9-18.6	B	A/B	
Y984064	L6	4.947	25.4	24.6-28.5	21.0	19.8-22.1	C	A	
Y984065	H5	7.019	19.8	17.9-23.6	17.3	15.4-20.0	B	A/B	fizzed troilite
Y984068	L6	57.40	25.1	24.4-25.9	21.1	20.4-22.2	A	A	
Y984069	H6	5.045	19.3	17.8-21.0	17.6	16.2-21.4	C	B	shock melt
Y984072	H5	6.803	19.2	18.2-20.7	16.6	16.1-17.0	B/C	A	
Y984074	L6	10.34	25.1	23.9-29.3	20.9	19.9-21.4	A/B	A	
Y984075	H5	9.833	18.8	18.0-20.4	16.6	15.6-19.5	C	A/B	
Y984077	L6	53.05	25.0	23.8-26.1	21.0	19.1-23.3	B/C	A/B	shocked, maskelynite
Y984079	How	7.909			32.0	15.5-63.6		A/B	An88.7-94.4

Table 1. *Continued.*

Meteorite	C	Wt. (g)	Fa	Range	Fs	Range	W	F	Comments
Y984082	LL5	3.320	26.1	23.3-34.4	19.9	13.5-23.7	B	A	fizzed troilite
Y984083	L5	10.18	25.3	23.8-27.7	21.3	20.1-24.0	B	A	
Y984085	L6	82.55	23.4	22.4-24.7	19.9	18.0-23.6	A	A	
Y984086	Dio	38.67			24.2	23.1-25.4		A	type A
Y984090	H5	3.944	19.0	17.9-22.4	17.6	16.2-20.6	C	A	
Y984092	H6	7.890	19.3	18.1-21.7	17.2	16.2-18.7	A	A	
Y984094	H5	15.42	19.8	18.6-22.5	17.3	16.1-19.3	B	A	
Y984096	L4	26.96	25.5	24.2-28.7	21.1	15.8-27.8	B	A	
Y984098	L6	3.108	25.8	23.8-27.3	22.0	21.0-25.9	A	A	shocked
Y984099	L5	6.810	25.0	23.7-27.4	20.5	18.2-22.7	A	A	
Y984100	H5	5.048	18.7	17.6-20.1	16.9	15.7-22.7	A/B	A	
Y984102	H5	7.198	18.8	17.7-23.1	16.3	15.6-18.2	B/C	A	
Y984103	H5	6.921	18.9	17.2-20.9	16.4	15.5-17.9	B/C	A/B	
Y984105	H5	11.72	18.7	18.0-22.9	16.6	15.1-20.1	B	A/B	
Y984107	L5	11.92	25.1	24.1-26.0	21.5	19.8-25.1	A/B	A	
Y984110	CO3	3.719		0.3-20.7		0.6-38.4	B	A	
Y984111	EH3	6.062	0.7	0.7-0.7	1.4	0.2-4.8	A	A	Si in Fe metal = ~2.7 wt%
Y984113	H6	3.636	18.9	18.4-20.0	17.1	16.0-21.1	A	A	
Y984114	L6	8.846	24.7	24.0-25.7	21.6	20.6-25.0	A	A/B	
Y984119	Euc, poly	18.16				26.6-35.3		A	An79.1-93.8, see sparate entry
Y984127	L6	36.17	25.0	23.3-27.0	20.8	20.2-21.5	A	B	
Y984129	L6	3.420	25.0	23.2-29.8	20.9	19.7-24.1	A	A	
Y984131	H3	8.230		15.4-19.4		15.4-19.3	A/B	A	
Y984132	H3	11.38		16.6-21.3		15.3-21.1	B	A/B	
Y984133	L4	8.889	24.8	24.1-25.9	20.9	20.4-21.9	A	A	
Y984134	H3	47.67		16.5-19.8		7.1-20.7	B	A/B	
Y984135	L5	28.74	24.9	24.2-25.6	20.7	20.0-21.2	A	A	
Y984136	Euc, poly	11.47				26.1-34.8		A	An71.1-94.1
Y984140	L6	15.72	25.3	24.2-27.0	21.9	20.3-26.7	A	A/B	
Y984141	L5	5.451	25.9	24.5-28.6	22.1	20.4-24.1	A	A	
Y984144	H6	37.44	18.5	17.5-19.9	16.3	15.4-17.6	A	A	
Y984145	L6	54.80	24.8	23.6-25.8	20.8	20.0-22.6	A	A/B	
Y984146	H3	19.32		17.6-20.2		15.7-17.3	A/B	A	
Y984147	LL6	118.9	29.8	28.9-31.4	24.2	23.2-25.3	A	A/B	
Y984148	L5	4.594	24.9	23.1-29.8	20.9	19.7-24.1	A	A	many shock veins

Notes for Table 1

C: classification; F: fracturing; W: weathering

Fracturing index:

- A: No or a few narrow cracks are visible.
- B: Several cracks extend across exterior surface.
- C: Severe cracks.

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 2. Oxygen isotopic compositions of selected meteorites ^{*1}.

	$\delta^{18}\text{O}$	$\delta^{17}\text{O}$	$\Delta^{17}\text{O}$	Classification	
				Group	References ^{*2}
Y82094	-4.52	-7.62	-5.27	CO3	Yanai & Kojima (1995)
Y980110	4.60	1.39	-1.00	Ure	MN vol. 16
Y980318	3.18	1.36	-0.29	Euc	MN vol. 10(2)
Y980702	4.06	4.48	2.37	R6	MN vol. 18
Y980459	4.31	2.52	0.28	Martian	MN vol. 11(1)
Y981031	5.64	3.01	0.08	Lunar	Kojima et al. (1999)
Y981710	3.49	1.38	-0.43	Dio	MN vol. 20
Y981725	3.57	0.79	-1.07	Lod	MN vol. 20
Y983101 (HCl)	3.03	2.93	1.35	H6	This issue
Y983119	3.26	0.28	-1.41	Lod	This issue

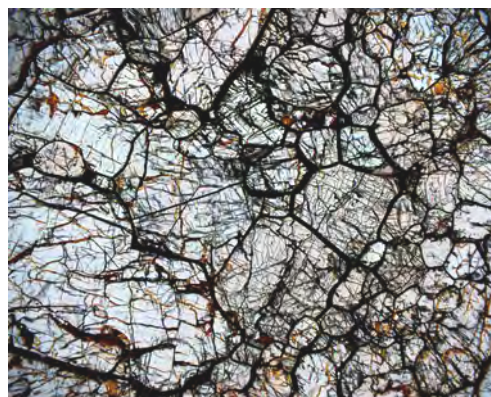
^{*1} Analysts: R.N. Clayton and T.K. Mayeda. Analytical techniques are described in Clayton and Mayeda (Geochim. Cosmochim. Acta 52, 1313).

^{*2} MN: Meteorite Newsletter; Yanai and Kojima (1995) Catalog of the Antarctic Meteorites; Kojima et al. (1999) Antarctic Meteorites XXIV, 81.

Figure 1. Descriptions and photomicrographs of selected meteorites.

Y982881

The PTS shows a coarse-grained (~1-2 mm) granular texture mainly composed of olivine and pyroxene with thin opaque rims along the boundaries between these minerals. Reduction rims are not apparent. Fe-FeS forms fine chains or islands along fractures near the rims. This rock is moderately weathered judging from brown staining along grain boundaries. Compositions of olivine and pyroxene are Fa8-3 and Fs11-17, respectively. This meteorite is a ureilite. Width = 4.7 mm.



Y983589

The PTS is abundant in small chondrules (100-300 μ m), and is slightly weathered (A/B). Silicates commonly show sharp optical extinction, thus the degree of the shock is very low. Small opaque droplets (<30 μ m in diameter) are abundant in chondrules. Isolated rounded opaques occur in the similar size of chondrules, and their core metals are rimmed with sulfide. This meteorite is CO3. Width = 4.7 mm.



Y983730

A half of the PTS is type 4 ordinary chondrite (left) which is in contact with type 5 lithology (right) with a sharp boundary. The type 4 area shows a well-defined chondritic texture whereas in the type 5 area the chondrule outline is less clear and the matrix is recrystallized. On the basis of the olivine and pyroxene compositions (Fa18-21, Fs15-20), both lithologies belong H group. Thus, this meteorite is a genomict breccia of type 4 and 5 ordinary chondrites. Width = 4.7 mm

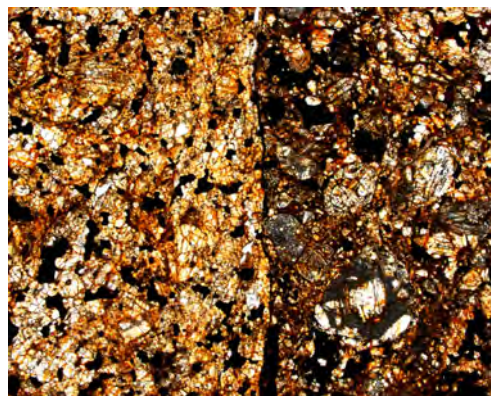
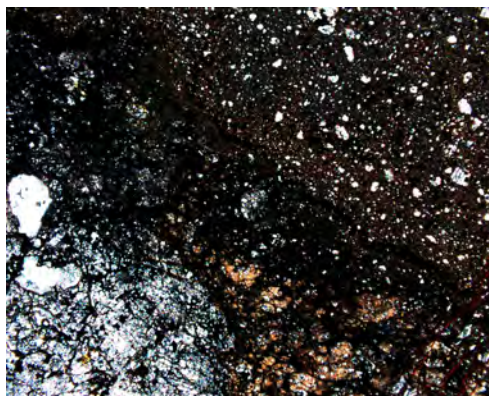


Figure 1. *Continued.*

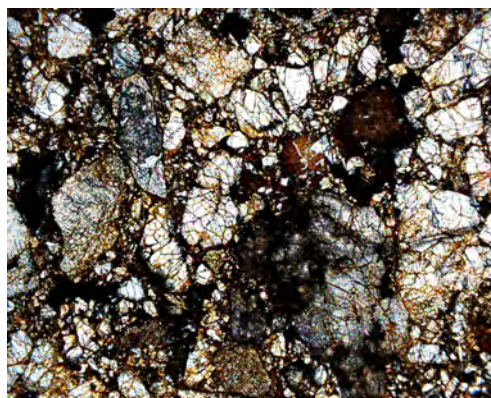
Y983750

The PTS is a complex impact melt breccia composed of lithic clasts (up to ~3 mm) and mineral fragments in a melt matrix. The melt matrix is very heterogeneous and shows a gradation from dark to transparent. Dark area is a very-fine grained mixture of silicate and opaque minerals with shock darkened lithic clasts and mineral fragments. Large lithic clasts show an igneous texture. On the basis of the abundance of FeNi-FeS and compositions of olivine (Fa18-22) and pyroxene (Fs17-22), this rock is a melt breccia of LL ordinary chondrite. Width = 4.7 mm



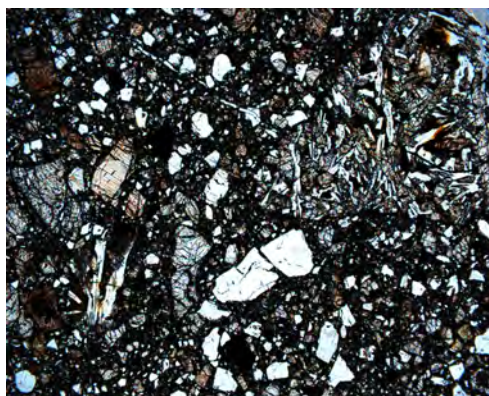
Y983890

This PTS displays a polymict breccia of polycrystalline clasts of pyroxene and olivine, unrecrystallized and recrystallized mineral fragments, sulfides, dark materials (up to ~2mm) set in a clastic matrix. Finely (a few to several μm) recrystallized clasts contain laths of black phases (graphite?). Most large silicate clasts are texturally similar to those of normal monomict ureilites. Dark clasts consist of very-fine grained materials with minor amounts of sulfide minerals. This meteorite is a polymict ureilite. Width = 4.7 mm



Y984119

This PTS mainly consists of basaltic clasts (<~3 mm), fragments of pyroxene and plagioclase, and dark impact melt clasts, set in a clastic matrix. Basaltic clasts show subophitic texture with dark mesostasis, and have chemically zoned pyroxenes. Pyroxene compositions are Fs20-70Wo3-37 and FeO/MnO ~29, and those of plagioclase, An79-94. This meteorite is a polymict eucrite similar to Y-74159 group. Width = 4.7 mm.



NIPR Research Program for Antarctic Meteorites

Research project: _____

Date: _____ Period of the project (months): _____

Principal investigator

Name: _____ Signature _____

Affiliation & position:

Office address:

Phone: _____ ext. _____ FAX: _____

E-mail:

Coinvestigator(s)

Name(s):

Affiliation(s) & position(s):

Description of research plan and justification for sample request:

(continue)

	specimen name (e.g., Y-86032)	preferred weight (e.g., 0.25g)	minimum weight (e.g., 0.1g)	sampling instructions (e.g., interior)	sample form (e.g., chip(s))
1					
2					
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4					
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9					
10					

received

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Tachikawa, Tokyo 190-8518, Japan, Phone (81) 42-512-0715, FAX (81) 42-528-3479, E-mail curator@nipr.ac.jp

No.

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