Antarctic Meteorite Newsletter

Volume 42, Number 2 August 2019

Curator's Comments

Kevin Righter, NASA-JSC

This newsletter reports many new meteorites from the Miller Range 2015 and the Dominion Range 2018 seasons.

Chondritic diversity continues its presence in the Miller Range with the MIL 15 collection featuring an impact melt breccia, a low FeO chondrite, L3 (<3.2), L3.5 (2), LL3.5, H3.7, and an R4. Carbonaceous chondrites include a CM1, two CM2 pairing groups of 7 and 8 members, CO3 (2), and CV3 (4) chondrites. In addition to all the chondrites are two mesosiderite clasts and a brecciated eucrite. This reports the last of the 2015 season MIL samples, redirecting focus of future characterization and newsletters on the 2016 EET and 2017 GRO samples as well as the rest of the newly returned 2018 DOM meteorites.

Achondrites dominate the samples recovered from the DOM 18 season including five pieces of a lunar basaltic breccia, as well as graphite-bearing ureilites (2), eucrites (3), howardites (3), and an ungrouped iron. Notable chondrites include CM2 (2), CO3, and a shocked L5.

Detailed olivine analyses, identification of primitive un-equilibrated chondrites (UOC), and re-assessment of pairing in four US Antarctic dense collection areas

Un-equilibrated ordinary chondrites from 4 different dense collection areas in the Transantarctic Mountains have been surveyed to identify primitive specimens that may be of higher scientific interest. As a result of this survey 19 samples of petrologic grade 3.05 or lower have been identified, based on the high Cr_2O_3 content of olivine in Type II FeO-rich chondrules:

EET 87735, 90066, 90261, 90080, 90628, 90519, 90909, 92100, 90916 (in addition to EET 90161)

LEW 87208, 97202 (in addition to LEW 86134)

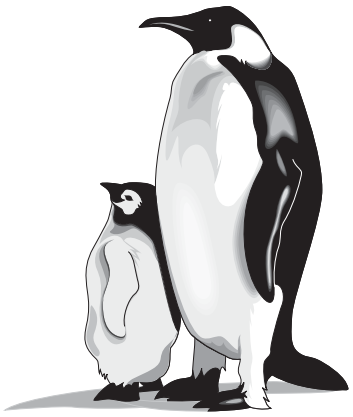
MET 00506, 00607, 00621, 01057 (in addition to MET 00452 and 00526)

GRO 06054, 95558, 03015, 03061

A periodical issued by the Meteorite Working Group to inform scientists of the basic characteristics of specimens recovered in the Antarctic.

Edited by Cecilia Satterwhite and Kevin Righter, NASA Johnson Space Center, Houston, Texas 77058

Inside this Issue



Sample Request Deadline
August 29, 2019

MWG Meets
Sept. 12-13, 2019

Free publication available at: **http://curator.jsc.nasa.gov/antmet/amn/amn.cfm**

The detailed assessments of all four areas, involving more than 80 meteorites, will be described in more detail in an upcoming publication, but we wanted to provide this updated information ASAP for the benefit of the community.

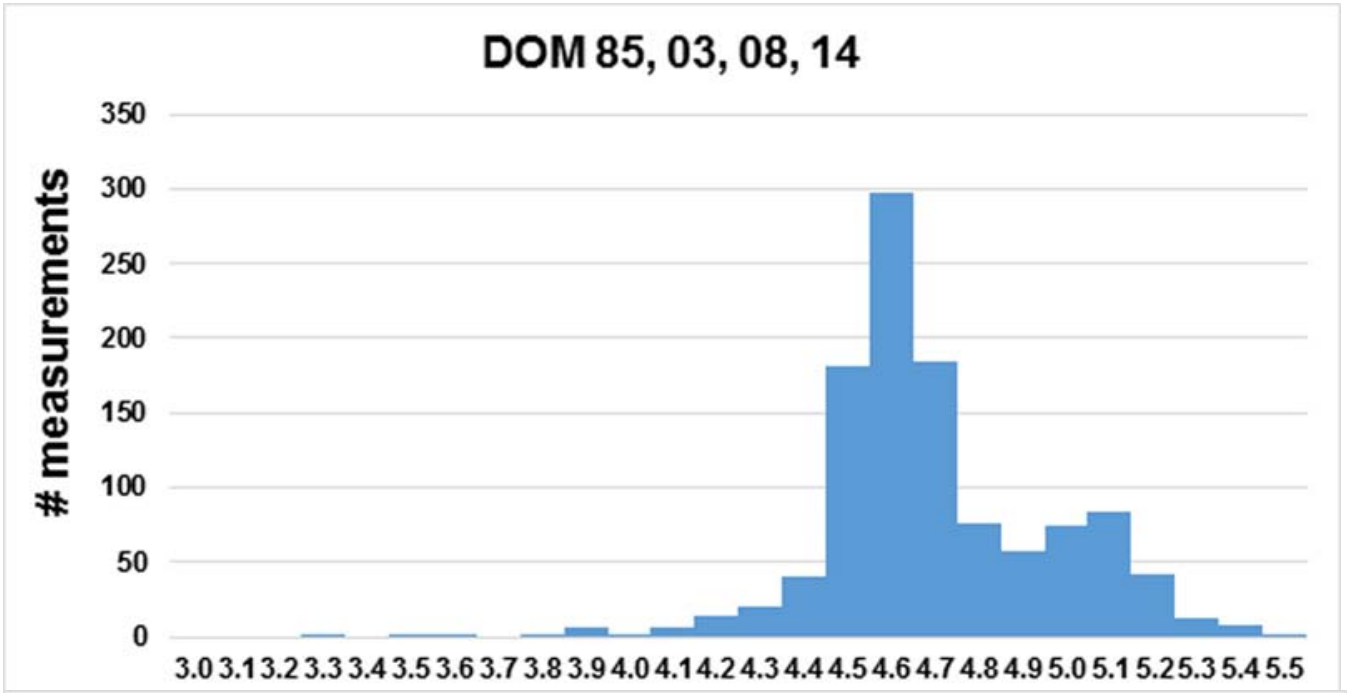
Reclassification of Miller Range (MIL) equilibrated ordinary chondrites (EOC)

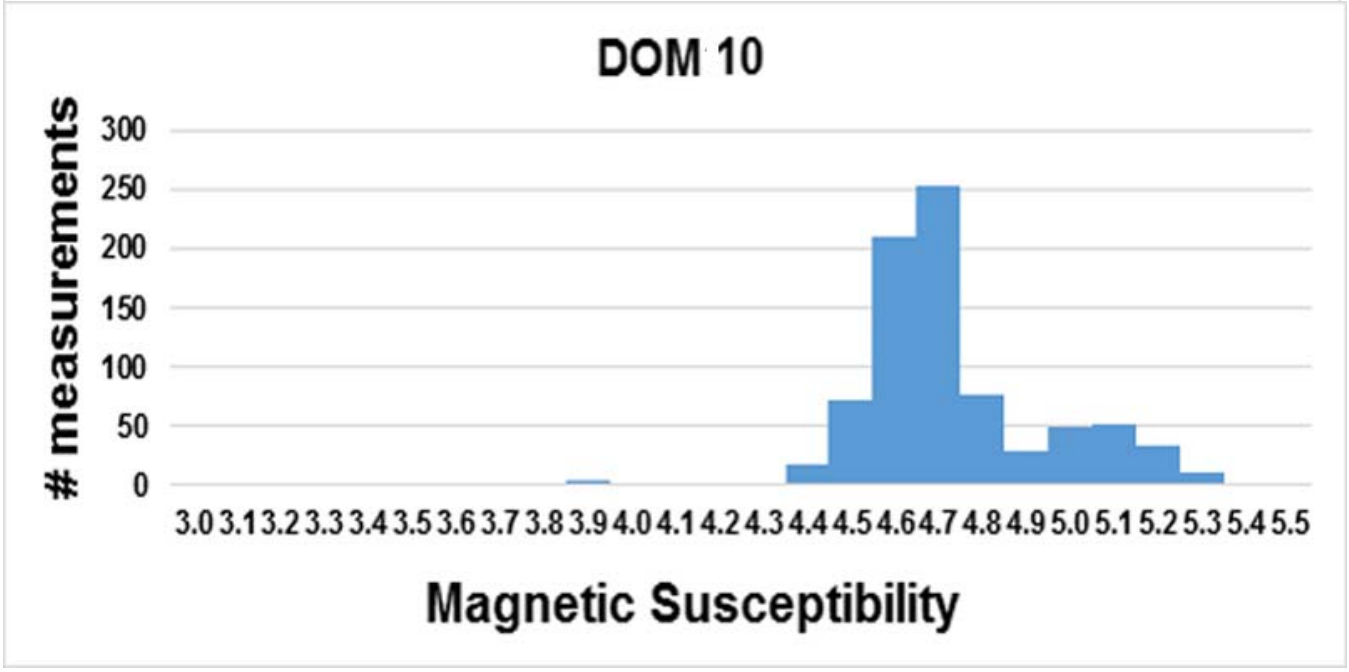
Based on a mismatch between magnetic susceptibility values and classifications based on oil immersion from 2014-2017 (vols. 37 to 40) timeframe newsletters, we identified 27 MIL EOCs with mass > ~100 g for detailed examination of olivine composition to re-assess classification. The following MIL EOCs require reclassification as indicated based on the new electron microprobe olivine data.

Generic	Original Classification	Fa in Olivine	Magnetic Susceptibility	Fa in olivine (microprobe)	Updated Classification
MIL 11007	LL5	-	4.96	18.4	H5
MIL 11009	L6	-	5.19	18.9	H6
MIL 11043	LL5	-	4.92	20.0	H5
MIL 11044	L5	-	5.15	18.5	H5
MIL 11045	LL6	-	4.82	24.7	L6
MIL 11047	LL6	-	4.76	25.2	L6
MIL 11049	LL5	-	5.02	18.9	H5
MIL 11088	LL6	-	4.86	25.3	L6
MIL 11090	LL6	-	4.63	25.6	L6
MIL 11091	L5	-	5.18	18.6	H5
MIL 11093	L5	-	5.08	18.2	H5
MIL 11096	L6	-	5.19	18.9	H6
MIL 11114	L5	-	5.13	18.0	H5
MIL 11145	LL5	-	5.31	19.3	H5
MIL 11165	L6	-	5.06	19.8	H6
MIL 11209	LL6	-	4.81	25.4	L6
MIL 11214	L5	-	5.04	19.1	H5
MIL 11217	L6	-	5.26	19.4	H6
MIL 11219	L6	-	5.07	19.1	H6
MIL 11240	L5	-	5.12	18.0	H5
MIL 11241	LL6	-	4.76	24.9	L6
MIL 11243	L6	-	5.01	19.5	H6
MIL 11297	LL6	-	4.77	25.1	L6
MIL 11302	L5	-	5.11	19.8	H5
MIL 13007	H4	18	4.70	24.6	L4
MIL 13014	LL5	29	5.25	19.4	H5
MIL 13086	LL5	-	4.80	25.1	L5

Magnetic Susceptibility of Dominion Range (DOM 10) and Patuxent Range (PAT 10) meteorites and reclassification of equilibrated ordinary chondrites (EOC)

Magnetic susceptibilities of the Dominion Range (DOM) and Patuxent Range 2010 season meteorites have been measured and are presented below, along with suggested reclassification of specific equilibrated ordinary chondrites (EOC). These measurements are the last installment for DOM EOC samples, and complete the survey started several years ago. Below are plots of magnetic susceptibility values measured for the 2010 DOM samples showing the majority of samples have values typical of L chondrites (4.4 to 4.9). These new values are compared to those for the other main DOM seasons 1985, 2003, 2008, and 2014, all of which have been classified using either SEM, microprobe, or magnetic susceptibility. The assignment of H, L, or LL follows our previous work reported in AMN 40, no. 1 (Feb. 2017) and AMN 41, no. 2 (Aug. 2018) of ~400 samples from Larkman Nunatak and Dominion Range; all H chondrites had log χ values > 5.0, and no LL chondrites had log χ values > 4.4. We have reclassified ~500 DOM 10 EOC samples using these ranges as well. (See Tables at the end of the newsletter.)





Report from the Smithsonian

Cari Corrigan, Geologist (Dept. of Mineral Sci.)

This newsletter reports 233 new classifications. Things are going well at the Smithsonian. We think we've recovered from "the Shutdown" but things occasionally crop up that remind us of the impact that five weeks of closure has a widespread effect on all of us. Despite the rough start to the year, we have had some recent successes in the Antarctic Meteorite program. We have been awarded the first allotment of funds to digitize the meteorite data packs sent to us by NASA/JSC. Each meteorite in the U.S. Antarctic program going back to 1976 has a data pack that records every split of every meteorite as it is broken and sent to researchers. This and our databases (at JSC and the SI) allow us to monitor these transactions in order to assist future researchers in obtaining similar (or sometimes even the exact) materials for follow-up research as instrumentation progresses and new questions are asked.

Chris Anders and Greg Polley, who were hired with collections funds awarded to Meteorites Collections Manager Julie Hoskin, have been with us since last October, and have been working hard to help us get caught up with our collection activities, and were essential in helping us make up lost time during the shutdown in January. Their contracts have been renewed for another year with additional funds obtained by Julie, which is great news for all.

Our departmental SEM has seen a lot of attention from repair folks since the last newsletter and in its revitalized state was used to classify almost 200 of the ordinary chondrites in this newsletter. We have begun to discuss the replacement of this instrument, as it is about 14 years young, but that will likely be a few years down the road. New cabinetry was recently delivered for our meteorite vault, which will expand our on-site Museum storage capability, provide more workspace, and enable us to develop a new display case (display case still being constructed). In the meantime, we will continue to work through and continually try to improve the workflow of tasks that allow us to supply you with your research materials!

ANSMET 2019-2020 Field Season

Ralph Harvey, Case Western Reserve University
Jim Karner, University of Utah

As many ANSMET fans know, last season we recovered 865 meteorites from the Davis Nunataks and Mount Ward (DW) icefields. We thought a lot of them were special, and that turned out to be true (as evidenced by the samples described in this newsletter)! That total of 865 meteorites was also much higher than expected; and basically all those meteorites we collected prevented us from completing search efforts in the area. That is the reason we are going back to DW this coming season. The increase in meteorite recovery rates was mostly from areas that had been searched in previous seasons, and while we routinely overlap previously searched areas, we normally find 5-10% more meteorites the second time around. This last season it was closer to 100% more. This extraordinary occurrence was probably due to excellent snow removal during the early season windstorms, i.e., clearing off bare ice areas on the main icefield, Big Tongue, Little Tongue and the informally named Trough (see Fig. 1), but also unclogging moraines and possibly exposing previously covered wind-rows. These snow removal events occur when the katabatic winds are strongest in the spring and fall, when the setting sun starts to exaggerate the differences in solar warming of the near-surface air, destabilizing the dome of radiatively cooled air over the center of the icesheet. This past year a really big katabatic came really late (almost all the way into summer, which is precipitation season) and that timing was fortuitous to us, as we reaped the benefit of meteorites without any blanket of early summer snows. When we return to DW this season we hope our luck continues, and we expect to find several hundreds more meteorites. Hopefully this season closes out our searches in the area (but you won't hear us complain if another positive bump in recoveries postpones it again). Wish us luck!

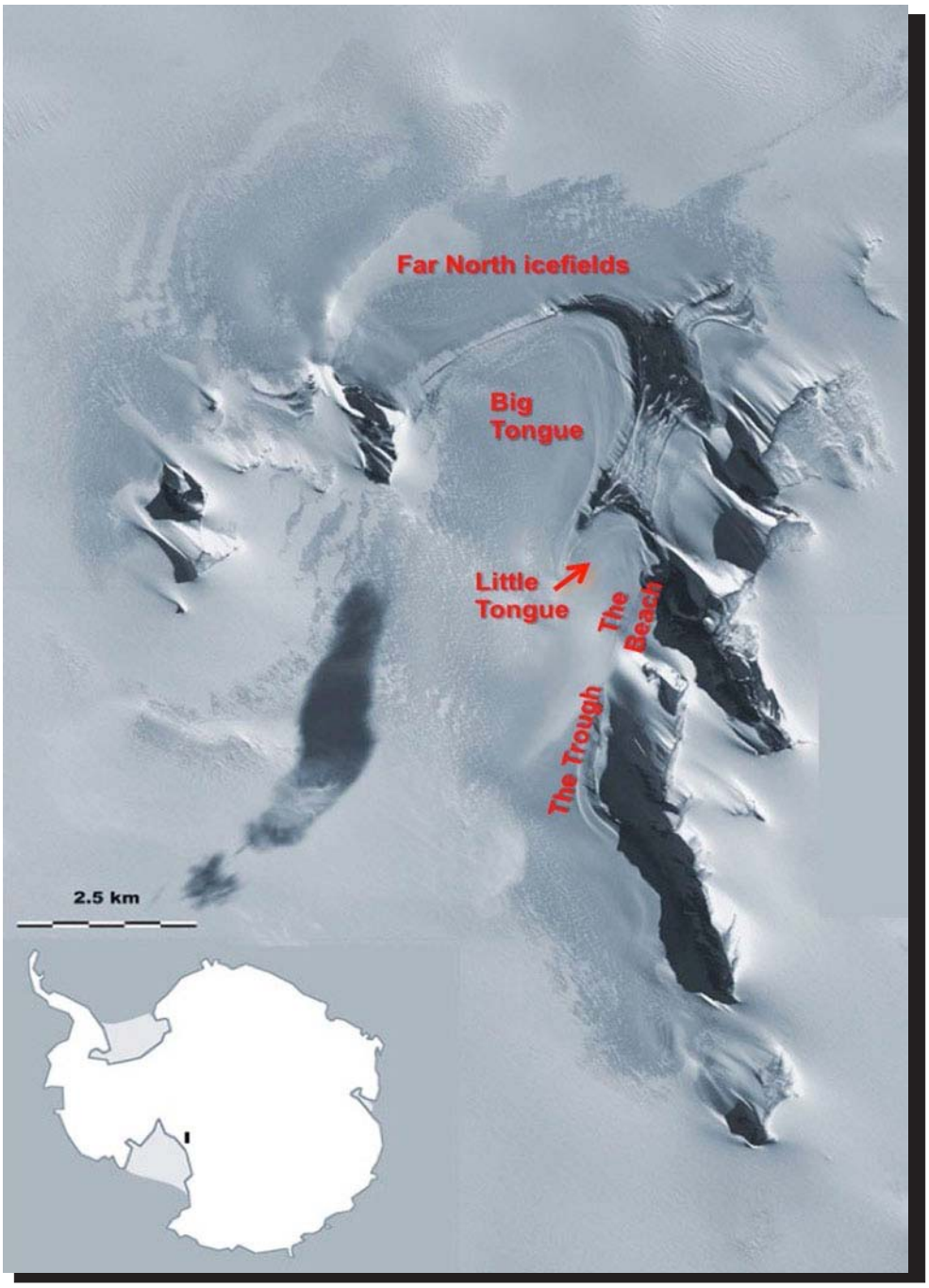


Figure 1. *Composite satellite image of the Davis-Ward icefields, with Mt. Ward to the right and Davis Nunataks to the left. The image is oriented with north toward the top. Areas that need further searching are labeled in red.*

New Meteorites

2015, 2018 Collection

Pages 7-24 contain preliminary descriptions and classifications of meteorites that were completed since publication of issue 42(1), March, 2019. Specimens of special petrologic type (carbonaceous chondrite, unequilibrated ordinary chondrite, achondrite, etc.) are represented by separate descriptions unless they are paired with previously described meteorites. However, some specimens of non-special petrologic type are listed only as single line entries in Table 1. For convenience, new specimens of special petrological type are also recast in Table 2.

Macroscopic descriptions of stony meteorites were performed at NASA/JSC. These descriptions summarize hand-specimen features observed during initial examination. Classification is based on microscopic petrography and reconnaissance-level electron microprobe analyses using polished sections prepared from a small chip of each meteorite. For each stony meteorite the sample number assigned to the preliminary examination section is included. In some cases, however, a single microscopic description was based on thin sections of several specimens believed to be members of a single fall.

Meteorite descriptions contained in this issue were contributed by the following individuals:

Kellye Pando, Curtis Calva, Roger Harrington, Cecilia Satterwhite and Kevin Righter
Antarctic Meteorite Laborabory
NASA Johnson Space Center
Houston, Texas

Cari Corrigan, Julie Hoskin and Tim McCoy
Department of Mineral Sciences
U.S. National Museum of Natural History - Smithsonian Institution
Washington, D.C.

Antarctic Meteorite Locations

ALH — Allan Hills
AMU — Amundsen Glacier
BEC — Beckett Nunatak
BOW — Bowden Neve
BTN — Bates Nunataks
BUC — Buckley Island
CMS — Cumulus Hills
CRA — Mt.Cranfield Ice Field
CRE — Mt. Crean
DAV — David Glacier
DEW — Mt. DeWitt
DNG — D'Angelo Bluff
DOM — Dominion Range
DRP — Derrick Peak
EET — Elephant Moraine
FIN — Finger Ridge
GDR — Gardner Ridge
GEO — Geologists Range
GRA — Graves Nunataks
GRO — Grosvenor Mountains
HOW — Mt. Howe
ILD — Inland Forts
KLE — Klein Ice Field
LAP — LaPaz Ice Field
LAR — Larkman Nunatak
LEW — Lewis Cliff
LON — Lonewolf Nunataks
MAC — MacAlpine Hills
MBR — Mount Baldr
MCY — MacKay Glacier
MET — Meteorite Hills
MIL — Miller Range
ODE — Odell Glacier
OTT — Outpost Nunatak
PAT — Patuxent Range
PCA — Pecora Escarpment
PGP — Purgatory Peak
PRA — Mt. Pratt
PRE — Mt. Prestrud
QUE — Queen Alexandra Range
RBT — Roberts Massif
RKP — Reckling Peak
SAN — Sandford Cliffs
SCO — Scott Glacier
STE — Stewart Hills
SZA — Szabo Bluff
TEN — Tentacle Ridge
TIL — Thiel Mountains
TYR — Taylor Glacier
WIS — Wisconsin Range
WSG — Mt. Wisting

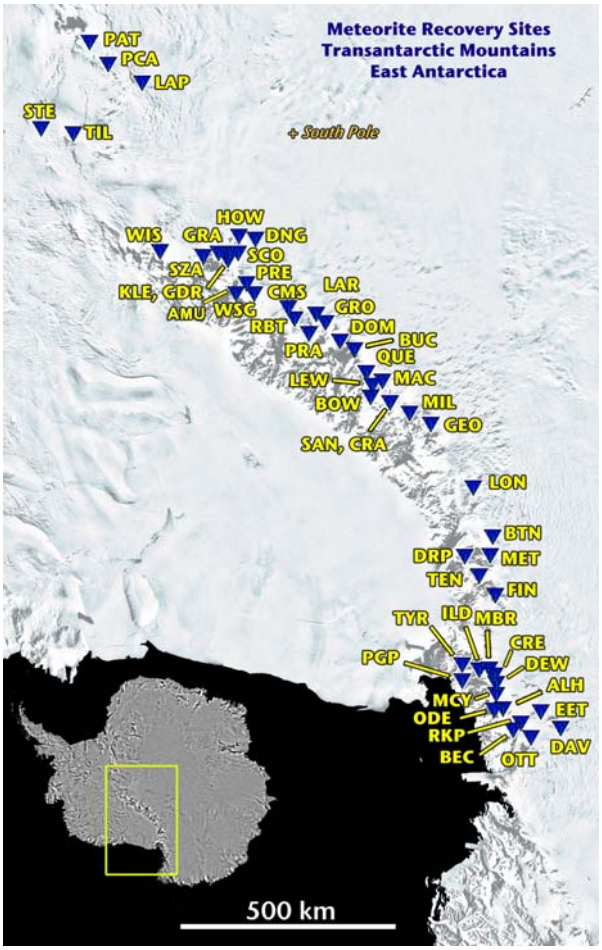


Table 1
Newly Classified Antarctic Meteorites

Sample Number	Weight (g)	Classification	Weathering	Fracturing	%Fa	%Fs
MIL 15001	1921.22	H4 CHONDRITE	A/B	B	21	
MIL 15002	6661.5	LL5 CHONDRITE	A/B	A/B		24
MIL 15003	1261.12	LL4 CHONDRITE	A/B	A/B	29	
MIL 15004	2335.5	H5 CHONDRITE	B	B/C	20	17
MIL 15005	2400.28	LL4 CHONDRITE	A/B	A/B	30	
MIL 15006	1404.96	H5 CHONDRITE	C	A/B	21	
MIL 15007	800.17	L6 CHONDRITE	A/B	A/B	25	21
MIL 15008	839.26	LL6 CHONDRITE	B	A	29	
MIL 15010	157.601	H6 CHONDRITE	B/C	B	20	
MIL 15011	198.598	L6 CHONDRITE	B/C	A	23	
MIL 15013	195.353	LL6 CHONDRITE	B/C	A/B	25	
MIL 15014	123.523	LL CHONDRITE (IMPT MELT)	C	A	11-31	25
MIL 15015	115.621	L4 CHONDRITE	B/C	A	26	
MIL 15016	84.065	H5 CHONDRITE	B/C	B	21	
MIL 15017	109.365	L6 CHONDRITE	B/C	A	26	
MIL 15018	70.715	L5 CHONDRITE	B/C	A	26	
MIL 15019	59.372	H5 CHONDRITE	Be	A	17	15
MIL 15020	169.52	LL5 CHONDRITE	B	A/B	27	24
MIL 15021	221.69	LL6 CHONDRITE	B	A/B	28	25
MIL 15022	220.31	H5 CHONDRITE	B	B	20	18
MIL 15023	121.7	L5 CHONDRITE	C	B	23	
MIL 15024	180.33	LL6 CHONDRITE	C	A	29	
MIL 15025	96.07	L5 CHONDRITE	B/C	B	23	
MIL 15026	78.46	H5 CHONDRITE	B/C	A/B	20	18
MIL 15027	60.69	L6 CHONDRITE	B	A/B	25	
MIL 15032	876.09	LL5 CHONDRITE	B	B	30	
MIL 15033	321.32	LL6 CHONDRITE	B/C	A	28	
MIL 15034	384.52	L6 CHONDRITE	A/B	B	25	
MIL 15043	277.8	CHONDRITE UNGROUPED	C	A	15	5-13
MIL 15050	794.7	L6 CHONDRITE	B/C	B	25	
MIL 15051	464.0	H5 CHONDRITE	A/B	B	18	16
MIL 15053	205.573	L3.5 CHONDRITE	B	A	10-25	15-19
MIL 15054	241.1	L3.5 CHONDRITE	A/Be	A	4-42	2-16
MIL 15055	155.711	L5 CHONDRITE	B/Ce	B	24	20
MIL 15056	134.261	H6 CHONDRITE	B/C	A/B	18	
MIL 15057	156.525	H6 CHONDRITE	B	A/B	20	18
MIL 15058	99.86	MESOSIDERITE	B/C	B/C		27-37
MIL 15059	111.82	L3.5 CHONDRITE	B	A	10-37	23-25
MIL 15060	162.113	H6 CHONDRITE	B/C	A	20	
MIL 15061	87.927	L6 CHONDRITE	B	A/B	26	22
MIL 15062	268.7	LL5 CHONDRITE	A/B	A/B	27	23
MIL 15063	164.376	H6 CHONDRITE	B/C	B	20	
MIL 15064	162.608	H6 CHONDRITE	B/C	A	20	18
MIL 15065	103.958	L5 CHONDRITE	A/B	A/B	26	
MIL 15066	66.484	L6 CHONDRITE	A/B	A/B	25	
MIL 15067	69.151	L4 CHONDRITE	A/B	A/B	26	
MIL 15068	101.774	H6 CHONDRITE	B/C	B	21	

Sample Number	Weight (g)	Classification	Weathering	Fracturing	%Fa	%Fs
MIL 15069	81.96	H6 CHONDRITE	B/C	A/B	20	
MIL 15070	57.84	H6 CHONDRITE	C	B/C	20	
MIL 15071	84.23	LL5 CHONDRITE	B/C	A	30	
MIL 15072	65.86	H5 CHONDRITE	B	B	20	
MIL 15073	58.42	H5 CHONDRITE	B/C	B/C	20	18
MIL 15074	82.76	H5 CHONDRITE	C	B/C	20	
MIL 15075	117.58	L5 CHONDRITE	A/B	A/B	21	
MIL 15076	203.2	H5 CHONDRITE	B/C	A/B	21	
MIL 15077	142.36	L6 CHONDRITE	B/C	A	25	
MIL 15078	86.88	H6 CHONDRITE	C	A	19	
MIL 15079	112.85	H5 CHONDRITE	B/C	A/B	20	
MIL 15101	5.16	H6 CHONDRITE	B/C	A	21	
MIL 15102	2.42	L6 CHONDRITE	B/C	A	25	
MIL 15106	3.69	L6 CHONDRITE	B/C	A	24	
MIL 15107	6.38	H5 CHONDRITE	B/C	B	21	
MIL 15108	2.12	LL5 CHONDRITE	B	A/B	28	
MIL 15110	34.99	LL5 CHONDRITE	A/B	A/B	30	
MIL 15111	17.26	H6 CHONDRITE	C	A	20	
MIL 15113	25.24	LL6 CHONDRITE	A/B	A	30	
MIL 15115	12.52	H6 CHONDRITE	B/C	A	21	
MIL 15116	14.65	H6 CHONDRITE	A/B	A/B	20	
MIL 15117	15.14	H6 CHONDRITE	C	A	21	
MIL 15118	27.97	H6 CHONDRITE	C	A	21	
MIL 15119	22.19	H5 CHONDRITE	B/C	A/B	20	
MIL 15129	70.178	H4 CHONDRITE	B	A/B	17-19	16
MIL 15160	34.416	LL6 CHONDRITE	A/Be	A	29	
MIL 15161	53.058	LL5 CHONDRITE	A/B	A	28	
MIL 15162	36.847	L5 CHONDRITE	A/B	A	26	
MIL 15164	45.335	H5 CHONDRITE	B	A	19	
MIL 15165	22.244	LL6 CHONDRITE	B	A/B	30	
MIL 15166	24.76	H6 CHONDRITE	B/C	A	20	
MIL 15167	37.556	LL5 CHONDRITE	A/B	A/B	28	
MIL 15168	25.292	L5 CHONDRITE	B	A/B	25	
MIL 15169	22.427	LL5 CHONDRITE	B	A	30	
MIL 15181	2.024	MESOSIDERITE	B/C	A/B		23-57
MIL 15189	10.845	H4 CHONDRITE	B	A	17	15
MIL 15213	15.1	L5 CHONDRITE	B/C	A/B	25	
MIL 15232	34.17	H6 CHONDRITE	A/B	A	21	
MIL 15233	24.54	H6 CHONDRITE	B	A	19	
MIL 15234	28.31	LL6 CHONDRITE	B	A	29	
MIL 15235	63.99	H6 CHONDRITE	B	A/B	21	
MIL 15236	38.35	H5 CHONDRITE	B/C	A	20	
MIL 15237	29.78	H5 CHONDRITE	B/C	A/B	20	
MIL 15238	20.88	L6 CHONDRITE	B/C	A	25	
MIL 15239	18.46	H6 CHONDRITE	C	A	19	
MIL 15242	7.44	H6 CHONDRITE	B/C	A	19	
MIL 15243	5.29	L5 CHONDRITE	B/C	A	24	
MIL 15244	9.67	H6 CHONDRITE	B/C	A	21	
MIL 15245	7.89	H5 CHONDRITE	B/C	A	20	

Sample Number	Weight (g)	Classification	Weathering	Fracturing	%Fa	%Fs
MIL 15246	7.39	H6 CHONDRITE	B/C	A/B	20	
MIL 15248	7.33	L6 CHONDRITE	C	A	25	
MIL 15249	6.97	L6 CHONDRITE	C	A	24	
MIL 15259	15.297	LL5 CHONDRITE	A/B	A	28	21
MIL 15280	15.93	H6 CHONDRITE	A/B	A	18	16
MIL 15294	2.308	LL6 CHONDRITE	A/B	A	29	23
MIL 15300	0.831	CM2 CHONDRITE	B	A/B	1-44	
MIL 15301	1.319	CM2 CHONDRITE	B	A	1-51	5-7
MIL 15302	1.039	CM2 CHONDRITE	B	A	1-48	
MIL 15303	1.964	CM2 CHONDRITE	B	A	1-39	
MIL 15304	3.38	CM2 CHONDRITE	Be	A	0.5-51	
MIL 15305	3.233	CM2 CHONDRITE	B	A	1-39	
MIL 15306	9.012	CV3 CHONDRITE	B	A	0.4-29	1
MIL 15329	49.1	LL5 CHONDRITE	A/B	B	30	24
MIL 15347	5.37	CM1 CHONDRITE	Be	A/B		
MIL 15350	159.31	L6 CHONDRITE	A/B	A/B	24	
MIL 15351	150.34	L3.2 CHONDRITE	B	A/B	1-42	1-8
MIL 15352	137.42	L5 CHONDRITE	B/C	A/B	25	
MIL 15353	102.14	L6 CHONDRITE	B/C	A	25	
MIL 15354	85.98	H6 CHONDRITE	B/C	A	21	
MIL 15355	89.03	H6 CHONDRITE	B/C	A	20	
MIL 15356	156.91	LL6 CHONDRITE	B	A/B	31	
MIL 15358	73.129	H6 CHONDRITE	B/C	B	20	
MIL 15359	84.36	L6 CHONDRITE	B	A/B	25	
MIL 15382	273.68	LL5 CHONDRITE	B/C	A	28	
MIL 15384	181.68	H6 CHONDRITE	B/C	A	20	
MIL 15400	4.738	H4 CHONDRITE	B/C	A	18	16
MIL 15401	3.927	H5 CHONDRITE	B/C	A	17	15
MIL 15402	2.549	H6 CHONDRITE	B	A	21	
MIL 15403	5.831	L6 CHONDRITE	B/C	A	26	
MIL 15404	6.125	H5 CHONDRITE	B/Ce	A/B	20	
MIL 15405	3.375	H6 CHONDRITE	B/C	A	21	
MIL 15406	5.151	L6 CHONDRITE	B/C	A/B	26	
MIL 15407	12.143	H6 CHONDRITE	B	A	19	
MIL 15408	2.867	CM2 CHONDRITE	B	A	1-37	
MIL 15409	2.38	CM2 CHONDRITE	Be	A	0.5-40	
MIL 15410	1.079	CM2 CHONDRITE	A/B	A/B	1-41	
MIL 15411	2.618	H6 CHONDRITE	B	A	20	
MIL 15412	3.283	H6 CHONDRITE	B/C	A	16	
MIL 15413	3.439	L4 CHONDRITE	B	A	26	
MIL 15414	1.718	L5 CHONDRITE	B	A	26	
MIL 15415	2.587	L4 CHONDRITE	A/B	A/B	24	
MIL 15419	0.563	CM2 CHONDRITE	A/B	A	1-47	8-12
MIL 15420	6.632	H6 CHONDRITE	B/C	A	20	
MIL 15421	5.924	L5 CHONDRITE	B/Ce	A	24	20
MIL 15422	7.422	L5 CHONDRITE	B	A/B	24	
MIL 15423	6.34	H6 CHONDRITE	B/C	A	21	
MIL 15424	3.944	L5 CHONDRITE	B/C	A	26	
MIL 15425	8.425	L6 CHONDRITE	B/Ce	A	25	

Sample Number	Weight (g)	Classification	Weathering	Fracturing	%Fa	%Fs
MIL 15426	8.364	H6 CHONDRITE	B/C	A	20	
MIL 15427	7.458	H6 CHONDRITE	B/C	A	20	
MIL 15428	8.955	EUCRITE (BRECCIATED)	A/B	A		17-63
MIL 15429	8.115	CM2 CHONDRITE	Be	A/B	1-45	
MIL 15435	1.72	H6 CHONDRITE	B	A	19	
MIL 15450	5.057	CM2 CHONDRITE	B	A/B	1-36	25
MIL 15451	3.395	H5 CHONDRITE	B/C	A	20	
MIL 15452	5.863	H6 CHONDRITE	B/C	A	19	
MIL 15453	5.029	L5 CHONDRITE	B/C	A	26	
MIL 15454	4.216	H5 CHONDRITE	B/C	A/B	21	
MIL 15455	2.974	L5 CHONDRITE	B/C	A	25	
MIL 15456	7.187	LL5 CHONDRITE	B/C	A	28	
MIL 15457	7.575	LL4 CHONDRITE	B	A	28	20
MIL 15458	8.847	H6 CHONDRITE	B/C	A	18	16
MIL 15459	7.406	H6 CHONDRITE	B/C	A	20	
MIL 15460	8.57	H5 CHONDRITE	B	A	19	
MIL 15461	9.352	LL6 CHONDRITE	B/C	A	28	
MIL 15462	13.383	L6 CHONDRITE	A/B	A	25	
MIL 15463	17.74	LL6 CHONDRITE	B/C	A	28	
MIL 15464	8.396	CO3 CHONDRITE	B/C	B	1-45	1-30
MIL 15465	13.478	L6 CHONDRITE	A/B	A	26	
MIL 15466	11.079	L6 CHONDRITE	A/B	A/B	25	
MIL 15467	7.667	H3.7 CHONDRITE	B/C	A/B	3-20	16
MIL 15468	4.298	CM2 CHONDRITE	Be	A	1-41	
MIL 15469	11.579	LL5 CHONDRITE	B	A	28	23
MIL 15471	1.52	L6 CHONDRITE	B	A	26	
MIL 15472	2.32	CV3 CHONDRITE	A	A	0.3-7	1-4
MIL 15473	1.59	H5 CHONDRITE	B	A	19	
MIL 15474	1.54	H5 CHONDRITE	B	A	19	
MIL 15475	1.89	H6 CHONDRITE	B	A	21	
MIL 15476	2.27	LL5 CHONDRITE	A/B	A	28	23
MIL 15479	1.32	CM2 CHONDRITE	A	B	1-35	
MIL 15480	10.816	CV3 CHONDRITE	B	A	1-10	
MIL 15481	12.893	H6 CHONDRITE	B/C	A	21	
MIL 15482	12.29	L6 CHONDRITE	A/B	A	26	
MIL 15483	17.642	H6 CHONDRITE	B/C	A	20	
MIL 15484	21.046	H5 CHONDRITE	B	A/B	18	16
MIL 15485	20.954	H6 CHONDRITE	B/Ce	A	20	
MIL 15486	9.203	L6 CHONDRITE	B/C	A	25	
MIL 15487	11.872	H6 CHONDRITE	B	A/B	20	
MIL 15488	6.556	H6 CHONDRITE	B/C	A	18	
MIL 15489	30.237	CM2 CHONDRITE	Be	A	1-52	
MIL 15490	2.861	H6 CHONDRITE	B/C	A	21	
MIL 15491	2.555	H6 CHONDRITE	B/C	A	21	
MIL 15492	3.632	L6 CHONDRITE	B/C	A	25	22
MIL 15493	5.577	H6 CHONDRITE	B/C	A	20	
MIL 15494	6.713	H6 CHONDRITE	B/C	A/B	20	
MIL 15495	3.562	L6 CHONDRITE	B	B	24	20
MIL 15496	2.765	L6 CHONDRITE	B/C	A	26	

Sample Number	Weight (g)	Classification	Weathering	Fracturing	%Fa	%Fs
MIL 15497	4.803	H6 CHONDRITE	B/C	A	19	
MIL 15498	2.936	LL6 CHONDRITE	B/C	A/B	28	
MIL 15499	8.346	L5 CHONDRITE	B/C	A	24	20
MIL 15512	5.92	H6 CHONDRITE	B	A/B	20	
MIL 15513	5.89	L6 CHONDRITE	B/C	A/B	24	
MIL 15514	6.27	H6 CHONDRITE	B/C	A	20	
MIL 15517	5.26	H6 CHONDRITE	B/C	A	21	
MIL 15550	2.502	H5 CHONDRITE	B/C	A	19	17
MIL 15551	3.748	H6 CHONDRITE	B/C	A/B	18-19	17
MIL 15552	2.187	R4 CHONDRITE	B	A/B	39	9-16
MIL 15554	5.18	H5 CHONDRITE	B/C	A	20	
MIL 15555	4.483	CV3 CHONDRITE	B	A	1-10	
MIL 15556	3.556	H6 CHONDRITE	B/C	A	20	
MIL 15557	4.228	H6 CHONDRITE	B/C	A	20	
MIL 15558	3.626	CO3 CHONDRITE	B	A	1-50	1-2
MIL 15559	6.097	H5 CHONDRITE	B/C	A	20	
DOM 18003	1150.82	L5 CHONDRITE	A/B	A/B	24	20
DOM 18071	43.255	CM2 CHONDRITE	Be	B	1-58	1-12
DOM 18130	14.814	UREILITE	B/C	B	24	13-19
DOM 18165	53.1	HOWARDITE	A/B	A/B		21-63
DOM 18166	24.927	L5 CHONDRITE	A/B	A	24	20
DOM 18173	49.378	IRON-UNGROUPED	B	A		
DOM 18255	36.393	UREILITE	B/C	B	24	13-19
DOM 18262	6.777	LUNAR-BASALTIC BRECCIA	A/B	A	71-95	29-79
DOM 18286	20.33	CO3 CHONDRITE	A/B	B	1-52	1
DOM 18291	15.88	EUCRITE (BRECCIATED)	A	A/B		25-62
DOM 18292	10.66	EUCRITE (BRECCIATED)	A	A		25-62
DOM 18303	21.59	H5 CHONDRITE	C	A	19	16
DOM 18304	29.165	HOWARDITE	A/B	A/B		28-63
DOM 18329	20.48	L5 CHONDRITE	C	A	24	21
DOM 18352	14.58	L6 CHONDRITE	B	A	24	20
DOM 18469	2.28	LL6 CHONDRITE	A/B	A	29	25
DOM 18509	16.52	LUNAR-BASALTIC BRECCIA	A	A	90-99	29-85
DOM 18543	13.59	LUNAR-BASALTIC BRECCIA	A	A	93	22-77
DOM 18629	17.64	EUCRITE (UNBRECCIATED)	A/B	A		40-60
DOM 18636	3.62	CM2 CHONDRITE	B	B	1-46	
DOM 18666	45.87	LUNAR-BASALTIC BRECCIA	A	A/B	99	26-80
DOM 18678	11.64	LUNAR-BASALTIC BRECCIA	A/B	A/B	95	29-63
DOM 18787	3.443	HOWARDITE	A/B	A	12	20-52

Table 2
Newly Classified Meteorites Listed by Type

Achondrites

Sample Number	Weight(g)	Classification	Weathering	Fracturing	%Fa	%Fs
MIL 15428	8.955	EUCRITE (BRECCIATED)	A/B	A		17-63
DOM 18291	15.88	EUCRITE (BRECCIATED)	A	A/B		25-62
DOM 18292	10.66	EUCRITE (BRECCIATED)	A	A		25-62
DOM 18629	17.64	EUCRITE (UNBRECCIATED)	A/B	A		40-60
DOM 18165	53.1	HOWARDITE	A/B	A/B		21-63
DOM 18304	29.165	HOWARDITE	A/B	A/B		28-63
DOM 18787	3.443	HOWARDITE	A/B	A	12	20-52
DOM 18262	6.777	LUNAR-BASALTIC BRECCIA	A/B	A	71-95	29-79
DOM 18509	16.52	LUNAR-BASALTIC BRECCIA	A	A	90-99	29-85
DOM 18543	13.59	LUNAR-BASALTIC BRECCIA	A	A	93	22-77
DOM 18666	45.87	LUNAR-BASALTIC BRECCIA	A	A/B	99	26-80
DOM 18678	11.64	LUNAR-BASALTIC BRECCIA	A/B	A/B	95	29-63
DOM 18130	14.814	UREILITE	B/C	B	24	13-19
DOM 18255	36.393	UREILITE	B/C	B	24	13-19

Carbonaceous Chondrites

Sample Number	Weight(g)	Classification	Weathering	Fracturing	%Fa	%Fs
MIL 15347	5.37	CM1 CHONDRITE	Be	A/B		
MIL 15300	0.831	CM2 CHONDRITE	B	A/B	1-44	
MIL 15301	1.319	CM2 CHONDRITE	B	A	1-51	5-7
MIL 15302	1.039	CM2 CHONDRITE	B	A	1-48	
MIL 15303	1.964	CM2 CHONDRITE	B	A	1-39	
MIL 15304	3.38	CM2 CHONDRITE	Be	A	0.5-51	
MIL 15305	3.233	CM2 CHONDRITE	B	A	1-39	
MIL 15408	2.867	CM2 CHONDRITE	B	A	1-37	
MIL 15409	2.38	CM2 CHONDRITE	Be	A	0.5-40	
MIL 15410	1.079	CM2 CHONDRITE	A/B	A/B	1-41	
MIL 15419	0.563	CM2 CHONDRITE	A/B	A	1-47	8-12
MIL 15429	8.115	CM2 CHONDRITE	Be	A/B	1-45	
MIL 15450	5.057	CM2 CHONDRITE	B	A/B	1-36	25
MIL 15468	4.298	CM2 CHONDRITE	Be	A	1-41	
MIL 15479	1.32	CM2 CHONDRITE	A	B	1-35	
MIL 15489	30.237	CM2 CHONDRITE	Be	A	1-52	
DOM 18071	43.255	CM2 CHONDRITE	Be	B	1-58	1-12
DOM 18636	3.62	CM2 CHONDRITE	B	B	1-46	
MIL 15464	8.396	CO3 CHONDRITE	B/C	B	1-45	1-30
MIL 15558	3.626	CO3 CHONDRITE	B	A	1-50	1-2
DOM 18286	20.33	CO3 CHONDRITE	A/B	B	1-52	1

MIL 15306	9.012	CV3 CHONDRITE	B	A	0.4-29	1
MIL 15472	2.32	CV3 CHONDRITE	A	A	0.3-7	1-4
MIL 15480	10.816	CV3 CHONDRITE	B	A	1-10	
MIL 15555	4.483	CV3 CHONDRITE	B	A	1-10	

Chondrites

Sample Number	Weight(g)	Classification	Weathering	Fracturing	%Fa	%Fs
MIL 15043	277.8	CHONDRITE UNGROUPED	C	A	15	5-13
MIL 15014	123.523	LL CHONDRITE (IMPT MELT)	C	A	11-31	25
MIL 15467	7.667	H3.7 CHONDRITE	B/C	A/B	3-20	16
MIL 15351	150.34	L3.2 CHONDRITE	B	A/B	1-42	1-8
MIL 15053	205.573	L3.5 CHONDRITE	B	A	10-25	15-19
MIL 15054	241.1	L3.5 CHONDRITE	A/Be	A	4-42	2-16
MIL 15059	111.82	L3.5 CHONDRITE	B	A	10-37	23-25
MIL 15552	2.187	R4 CHONDRITE	B	A/B	39	9-16

Iron/Stony Iron

Sample Number	Weight(g)	Classification	Weathering	Fracturing	%Fa	%Fs
DOM 18173	49.378	IRON-UNGROUPED	B	B		
MIL 15058	99.86	MESOSIDERITE	B/C	B/C		27-37
MIL 15181	2.024	MESOSIDERITE	B/C	A/B		23-57

**Notes to Tables 1 and 2:

"Weathering" Categories:

A: Minor rustiness; rust haloes on metal particles and rust stains along fractures are minor.
B: Moderate rustiness; large rust haloes occur on metal particles and rust stains on internal fractures are extensive.
C: Severe rustiness; metal particles have been mostly stained by rust throughout.
E: Evaporite minerals visible to the naked eye.

"Fracturing" Categories:

A: Minor cracks; few or no cracks are conspicuous to the naked eye and no cracks penetrate the entire specimen.
B: Moderate cracks; several cracks extend across exterior surfaces and the specimen can be readily broken along the cracks.
C: Severe cracks; specimen readily crumbles along cracks that are both extensive and abundant.

Classification of the ordinary chondrites in Table 1 & 2 was done by Energy Dispersive Spectroscopic (EDS) methods using a Scanning Electron Microscope (SEM). This can include the analysis of several olivine and pyroxene grains to determine the approximate Fayalite and Ferrosilite values of the silicates, grouping them into H, L or LL chondrites. Petrologic types are determined by optical microscopy and are assigned based on the distinctiveness of chondrule boundaries on broken surfaces of a 1-3 g chip. While this technique is suitable for general characterization and delineation of equilibrated ordinary chondrites, those undertaking detailed study of any meteorite classified by optical methods alone should use caution. It is recommended that a polished thin section be requested to accompany any chip and appropriate steps for a more detailed characterization should be undertaken by the user. (Cari Corrigan, Smithsonian Institution)

Table 3

Tentative Pairings for New Meteorites

Table 3 summarizes possible pairings of the new specimens with each other and with previously classified specimens based on descriptive data in this newsletter issue. Readers who desire a more comprehensive review of the meteorite pairings in the U.S. Antarctic collection should refer to the compilation provided by Dr. E.R. D. Scott, as published in the Antarctic Meteorite Newsletter vol. 9 (no. 2) (June 1986). Possible pairings were updated in Meteoritical Bulletins 76, 79, 82 through 106, which are available online from the Meteoritical Society webpage:

http://www.lpi.usra.edu/meteor/metbull.php

CM2 CHONDRITE

MIL 15301, MIL 15302, MIL 15305, MIL 15450, MIL 15479 and MIL 15489 with MIL 15300

MIL 15304, MIL 15408, MIL 15409, MIL 15410, MIL 15419, MIL 15429 and MIL 15468 with MIL 15303

CV3 CHONDRITE

MIL 15555 with MIL 15480

EUCRITE

DOM 18292 with DOM 18291

HOWARDITE

DOM 18304 with DOM 18165

LUNAR-BASALTIC BRECCIA

DOM 18509, DOM 18543, DOM18666 and DOM 18678 with DOM 18262

MESOSIDERITE

MIL 15058 with MIL 13174

UREILITE

DOM 18255 with DOM 18130

Petrographic Descriptions

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15014	Miller Range	24095	5.5 x 4.3 x 3.5	123.523	LL Chondrite (Impt Melt)

Macroscopic Description: Cecilia Satterwhite
Most of exterior of this meteorite is weathered brown with some black pitted fusion crust. The interior is black matrix with brown weathered areas.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The section is dominated by a >1 cm region of shock melt which contains relict clasts and chondrules in a fine grained matrix with metal and sulfide blebs. A corner of the section is unmelted chondritic material of petrologic type 5 with relict chondrules. Olivines are Fa_{11-31} and pyroxenes are $Fs_{25}Wo_{2}$. This meteorite is an ordinary chondrite impact melt breccia, probably an LL chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15043	Miller Range	23075	7.8 x 5.4 x 3.6	277.8	Chondrite Ungrouped

Macroscopic Description: Kellye Pando
90% of the exterior is covered by dark brown fusion crust with round dark colored weathering spots and some orange rust. Exposed surface is a gray matrix with black, brown and light gray inclusions. Fresh interior is a light colored matrix with some large (~1 mm) gray inclusions and extensive orange rust throughout.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The section exhibits a few poorly defined chondrules (up to 1 mm) in a matrix of coarse metal and sulfide. Olivine is Fa_{15} and pyroxenes are Fs_{5} and Fs_{13}. The meteorite is moderately weathered. The meteorite is a low FeO chondrite of type 5 (Russell et al. MAPS 1998). While the meteorite is similar in mineral composition to Willaroy and Suwahib (Buwah), the texture suggests that it is not paired with either MIL 15293 or MIL 15362 (classified in the Spring 2019 Antarctic Meteorite Newsletter).

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15053	Miller Range	23350	8.0 x 5.5 x 2.5	205.573	L3.5 Chondrite

Macroscopic Description: Cecilia Satterwhite
The exterior has black fusion crust with some exposed gray matrix, inclusions/chondrules are visible. Most of the interior is brown with metal and abundant inclusions/chondrules of various sizes and color; some dark gray matrix is visible.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The section exhibits numerous large, well-defined chondrules (up to 2 mm) in a black matrix of fine-grained silicates, metal and troilite. Polysynthetically twinned pyroxene is present. Weak shock effects are present. Weathering in the meteorite is minor. Silicates are unequilibrated; olivines range from Fa_{10-25}, and pyroxenes from Fs_{15-19}. The meteorite is an L3 chondrite (estimated subtype 3.5).

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15058	Miller Range	23342	5.0 x 3.9 x 2.8	99.86	Mesosiderite

Macroscopic Description: Kellye Pando

Exterior of this meteorite is mottled red-brown and dark brown-black with iridescent oxidation spots and extensive fracturing. There are a few spots of possible fusion crust that are rough and black. Fresh interior is very crumbly gray-brown matrix with reflective mineral inclusions and extensive red-orange weathering throughout.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

The section consists of mineral fragments of pyroxene, feldspar and SiO_2 grains in a matrix with abundant metal and sulfide. Metal occurs as stringers that reach 2 mm in maximum dimension and also as blebs. One area of the section is notably rich in sulfide and poor in FeNi metal. Pyroxene compositions are $Fs_{37}Wo_3$ and $Fs_{27}Wo_{42}$. Feldspars are $An_{90\text{-}94}Or_{0.2}$. Fe/Mn is ~29. The meteorite is likely a clast from a mesosiderite. Pairing with MIL 13174 should be considered.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15059	Miller Range	23320	6.2 x 4.5 x 3.0	111.82	L3.5 Chondrite

Macroscopic Description: Cecilia Satterwhite

Brown/black fusion crust with oxidation halos and fractures cover the exterior of this ordinary chondrite. The exterior has some pitted areas and exposed gray matrix. The interior is a gray matrix with heavy oxidation. Some large and small light/dark/weathered inclusions/chondrules and minor metal are visible.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

The section exhibits numerous large, well-defined chondrules (up to 2 mm) in a black matrix of fine-grained silicates, metal and troilite. Weak shock effects are present. Polysynthetically twinned pyroxene is present. The meteorite is moderately weathered and moderately shocked. Silicates are unequilibrated; olivines range from $Fa_{10\text{-}37}$, and pyroxenes from $Fs_{23\text{-}25}$. The meteorite is an L3 chondrite (estimated subtype 3.5).

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15181	Miller Range	24199	1.6 x 1.2 x 0.6	2.024	Mesosiderite

Macroscopic Description: Cecilia Satterwhite

50% of the exterior surface has black/brown fusion crust with oxidation and rust. The exposed areas are weathered brown with some inclusions/chondrules visible. The interior is a rusty brown with metal and some minor areas of darker matrix are visible.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

This section contains mineral fragments and polymineralic clasts composed of pyroxene and feldspar grains up to 2 mm. Abundant sulfide and rarer metal are present in the matrix. Pyroxene compositions are mostly $Fs_{23\text{-}57}Wo_{2\text{-}4}$, with two analyses of $Fs_{30}Wo_{40}$. Feldspars are $An_{88\text{-}91}Or_{0.4}$. Fe/Mn is ~32. The meteorite is likely a clast from a mesosiderite but does not appear to be paired with MIL 15058.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15300	Miller Range	24018	1.3 x 0.7 x 0.3	0.831	CM2 Chondrite
MIL 15301		24074	1.3 x 1.0 x 1.0	1.319	
MIL 15302		24004	1.3 x 1.2 x 0.6	1.039	
MIL 15305		24046	1.6 x 1.5 x 1.0	3.233	
MIL 15450		25268	1.0 x 1.5 x 1.2	5.057	
MIL 15479		25286	1.5 x 1.2 x 1.0	1.320	
MIL 15489		25250	3.5 x 2.5 x 2.2	30.237	

Macroscopic Description: Kellye Pando, Cecilia Satterwhite

The exteriors of these meteorites have rough, fractured brown-black fusion crust covering up to 85% of the surfaces. Some rust is visible. The exposed areas are black with most exhibiting white specks. Fresh interiors are black matrix with white-gray specks/inclusions and some minor oxidation.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

The sections consist of a few small chondrules (up to 0.5 mm), mineral grains and CAIs set in a black matrix; rare metal and sulfide grains are present. Olivine compositions are Fa_{1-52}, pyroxene is Fs_{5-25}. Aqueous alteration of the matrix is substantial, but the chondrules are extensively altered, apparently more so than those we group with MIL 15303, although this distinction may reflect the particular sections examined rather than real differences between these groups of meteorites. These meteorites are CM2 chondrites.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15303	Miller Range	24098	1.9 x 1.6 x 0.6	1.964	CM2 Chondrite
MIL 15304		24073	2.0 x 2.0 x 0.6	3.380	
MIL 15408		24019	1.7 x 1.5 x 1/2	2.867	
MIL 15409		24045	1.6 x 1.3 x 0.9	2.380	
MIL 15410		24014	1.5 x 1.0 x 0.8	1.079	
MIL 15419		23630	1.3 x 0.8 x 0.8	0.563	
MIL 15429		24059	3.0 x 2.2 x 1.5	8.115	
MIL 15468		25287	2.3 x 1.6 x 1.3	4.298	

Macroscopic Description: Cecilia Satterwhite

All of the exteriors of these carbonaceous chondrites have black fractured fusion crust ranging from 15% to 80%. Some surfaces have frothy areas. Areas without fusion crust show a black matrix, some rust/oxidation is visible. The interiors are a black matrix with white specks, evaporites and minor oxidation.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

The sections consist of a few small chondrules (up to 0.5 mm), mineral grains and CAIs set in a black matrix; rare metal and sulfide grains are present. Olivine compositions are $Fa_{0.5-51}$, pyroxene is Fs_{2-12}. Aqueous alteration of the matrix is substantial, but the chondrules are only modestly altered, apparently less so than those we group with MIL 15300, although this distinction may reflect the particular sections examined rather than real differences between these groups of meteorites. The meteorites are CM2 chondrites.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15306	Miller Range	23003	3.5 x 2.8 x 0.9	9.012	CV3 Chondrite

Macroscopic Description: Cecilia Satterwhite

The exterior has black fusion crust with fractures, abundant inclusions/chondrules of various sizes and colors and some oxidation. The interior is a dark gray matrix with abundant large and small inclusions/chondrules of various colors.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

This section exhibits large chondrules (up to 3 mm) and CAIs in a dark matrix. Fine-grained sulfides occur in the matrix. The texture appears more compact, though the origin of the compaction is unclear. Olivines range from $Fa_{0.4-29}$ and pyroxene is Fs_{1}. The meteorite is an unequilibrated CV3 chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15347	Miller Range	25855	2.2 x 2.1 x 1.0	5.370	CM1 Chondrite

Macroscopic Description: Cecilia Satterwhite
The exterior has black/brown fusion crust, frothy in areas with some evaporites visible. The interior is a dark gray to black matrix with some weathering and tiny light inclusions.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The section consists of small (up to 0.5 mm) completely altered chondrules set in an altered matrix. Rare sulfide grains are present. No unaltered mafic silicates remain. A few rare calcite grains were encountered. The meteorite is a CM1 chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15351	Miller Range	23660	6.9 x 3.9 x 3.3	150.340	L3.2 Chondrite

Macroscopic Description: Kellye Pando
95% of exterior is covered with a dark brown-black fusion crust that has light gray weathering along fracture lines and areas of very dark red rust. Exposed surfaces are light brown with dark red-orange rust spots. Fresh interior is dark brown matrix with round, light gray inclusions (up to 2 mm) and some areas of orange rust.

Thin Section (,4) Description: Cari Corrigan, Tim McCoy
The section consists of abundant chondrules (up to 2 mm in diameter) in a fine grained matrix of silicates, metal, and sulfide. Polysynthetically twinned pyroxene is abundant and some chondrules contain glassy mesostasis. The meteorite is moderately weathered and shocked. Olivine compositions range from Fa_{1} to Fa_{42} with an average of Fa_{14} and a standard deviation of 12. Pyroxenes are $Fs_{1-8}Wo_{0.5}$. The meteorite is likely an L3 chondrite of very low petrologic subtype, likely less than or equal to L3.2.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15428	Miller Range	23086	2.2 x 2.0 x 1.0	8.955	Eucrite (Brecciated)

Macroscopic Description: Cecilia Satterwhite
85% of the exterior has shiny black fusion crust, fractured in areas with large white inclusions visible. Some gray matrix is visible on exposed surface. The interior is a gray matrix with abundant light/dark inclusions of various sizes and a rusty vein runs through the interior.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
This section consists dominantly of coarse-grained pyroxene and plagioclase fragments and polymineralic igneous clasts with sizes up to 2 mm. A single coarse gabbroic clast approaching 1 cm in maximum dimension sits on one edge of the section, which contains laths of feldspar and equant pyroxenes with grain sizes up to 2 mm. Pyroxene compositions span the range from $Fs_{17-63}Wo_{1-44}$. This meteorite is a brecciated eucrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15464	Miller Range	25299	2.7 x 2.5 x 1.3	8.396	CO3 Chondrite

Macroscopic Description: Cecilia Satterwhite
Fractured black fusion crust with some oxidation covers the exterior surface. The interior is black with some oxidation.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The section consists of abundant small (up to 1 mm) chondrules, chondrule fragments and mineral grains in a dark matrix. Metal and sulfide occur within and rimming the chondrules. The section consists of two regions, one of which contains more abundant metal suggesting the meteorite may be a breccia. Olivine ranges in composition from Fa_{1-45}. Two pyroxene analyses range from Fs_{1-30}. Terrestrial weathering effects are modest. The meteorite is a CO3 chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15467	Miller Range	23619	1.4 x 1.8 x 1.5	7.667	H3.7 Chondrite

Macroscopic Description: Cecilia Satterwhite
50% of the exterior has black/brown fusion crust with rusty areas and oxidation. The interior is a weathered brown matrix with metal.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The section exhibits small, well-defined chondrules (up to 1.5 mm) in a black matrix silicates, metal and troilite. Weak shock effects are present. Polysynthetically twinned pyroxene is rare. The meteorite is moderately weathered and moderately shocked. Silicates are unequilibrated; olivines range from Fa_{3-20} (with most Fa_{18}), and pyroxenes are Fs_{16}. The meteorite is an H3 chondrite (estimated subtype 3.7).

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15472	Miller Range	23608	1.9 x 1.4 x 0.9	2.32	CV3 Chondrite

Macroscopic Description: Kellye Pando
Exterior is very dark brown-black with round inclusions that are 1-3 mm and are various colors including light orange, light gray and dark gray. Fresh interior looks the same as the exterior with dark matrix and round inclusions of various color.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
This section exhibits large chondrules (up to 3 mm) and CAIs in a dark matrix. Fine-grained sulfides occur in the matrix. Olivines range from $Fa_{0.3-7,}$ pyroxenes Fs_{1-4}. The meteorite is a CV3 chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15480	Miller Range	23680	3.0 x 2.5 x 0.8	10.816	CV3 Chondrite
MIL 15555		23616	2.1 x 1.5 x 0.5	4.483	

Macroscopic Description: Cecilia Satterwhite
The exteriors have black/brown fusion crust, areas without fusion crust are brown/black with oxidation. The interiors are a dark gray to black matrix with some oxidation and light colored and weathered inclusions.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
These sections exhibit large chondrules (up to 3 mm) and CAIs in a dark matrix. Fine-grained sulfides occur in the matrix. Olivines range from Fa_{1-10}. The meteorites are similar enough to be paired and are unequilibrated CV3 chondrites.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15550	Miller Range	23663	1.4 x 1.0 x 1.0	2.502	H5 Chondrite

Macroscopic Description: Cecilia Satterwhite
Most of the exterior is a rusty brown with patches of fusion crust. The interior is rusty brown.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The section is an H5 chondrite with a network of shock veins containing metal/sulfide blebs cross-cutting the sample. Olivine is Fa_{19}, pyroxene is Fs_{17}.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15552	Miller Range	23658	1.8 x 1.0 x 0.6	2.187	R4 Chondrite

Macroscopic Description: Cecilia Satterwhite
Exterior has 90% black fractured fusion crust with exposed dark gray to black interior. The interior is a dark gray to black matrix with some oxidation. Light colored and weathered inclusions/chondrules are visible.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
This section consists of ~50% distinct chondrules (up to 2 mm) and chondrule fragments set in a slightly recrystallized matrix of silicates, sulfides and chromite. Olivines are homogenous at Fa_{39}, while pyroxenes range from $Fs_{9\text{-}16}$. The meteorite is heavily shocked. The meteorite is an R4 chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
MIL 15558	Miller Range	23006	1.8 x 1.5 x 1.0	3.626	CO3 Chondrite

Macroscopic Description: Cecilia Satterwhite
85% black fusion crust with oxidation covers the exterior. The interior is a dark gray to black matrix with oxidation and weathered inclusions/chondrules.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The section consists of abundant small (up to 1 mm) chondrules, chondrule fragments and mineral grains in a dark matrix. Metal and sulfide occur within and rimming the chondrules. Olivine ranges in composition from $Fa_{1\text{-}50}$. Two pyroxene analyses range from $Fs_{1\text{-}2}$. Terrestrial weathering effects are modest. The meteorite is a CO3 chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18071	Dominion Range	25421	5.0 x 4.9 x 2.5	43.255	CM2 Chondrite

Macroscopic Description: Cecilia Satterwhite
The exterior is a black to dark gray color and is heavily fractured and pitted. Small inclusions/chondrules are visible on the exposed areas. It has a coarse grained texture and minor oxidation. No fusion crust is present. The interior is a dark gray to black fined grained matrix with some light/weathered inclusions/chondrules, oxidation and a thin band of evaporites is visible.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The section consists of numerous small chondrules (up to 0.5 mm), mineral grains and CAIs set in a black matrix; rare metal and sulfide grains are present. Aqueous alteration of the matrix is substantial, but the chondrules are only minimally altered. Olivine compositions are $Fa_{1\text{-}58}$, pyroxene is $Fs_{1\text{-}12}$. The meteorite is a CM2 chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18130	Dominion Range	24843	2.5 x 2.3 x 1.9	14.814	Ureilite
DOM 18255		25665	4.8 x 2.3 x 1.8	36.393	

Macroscopic Description: Cecilia Satterwhite
Both of these samples have patches of pitted brown/black fusion crust, with oxidation haloes and fractures. Areas without fusion crust have a pebbly texture and are brown/black in color with abundant inclusions visible. The rusty brown interiors are crumbly and friable with a coarse grained texture and abundant metal .

Thin Section (,2) Description: Cari Corrigan, Tim McCoy
The sections consist of an aggregate of large olivine and pyroxene grains up to 3.5 mm across. Individual olivine grains are rimmed by carbon-rich material containing traces of metal. Olivines have cores of Fa_{24}, with rims reduced to Fa_{4}. Pigeonite is $Fs_{19}Wo_{12}$. Subcalcic augite is $Fs_{13}Wo_{33}$. The meteorites are ureilites and are likely paired.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18165	Dominion Range	24209	4.9 x 3.4 x 2.0	53.1	Howardite
DOM 18304		25065	3.7 x 3.5 x 1.6	29.165	

Macroscopic Description: Kellye Pando, Cecilia Satterwhite

Patchy black fusion crust that is shiny is some areas, glassy in others and rough in others covers between 10% and 85% of the exteriors of these meteorites. Exposed surfaces are heavily pitted, with a tan-gray matrix with some weathered areas ranging from dark gray to orange rust concentrated near pits. Light/dark and weathered minerals are visible Fresh interior is light gray matrix with small (<1 mm) black inclusions, larger (up to 2 mm) white and yellow inclusions and a few large (3-4 mm) dark gray-brown clasts and minor oxidation. Some larger white clasts contain smaller dark gray-black inclusions of their own.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

These two sections consist of a comminuted matrix of mineral fragments up to 1 mm in size, with clasts including coarse ophitic and medium grained granoblastic textures. Clasts reach up to 5 mm in maximum dimension. Pyroxenes are $Fs_{21-63}Wo_{2-44}$ and feldspars are $An_{86-89}Or_{1}$. The meteorites are similar enough that one description suffices, and are both howardites.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18166	Dominion Range	24234	3.0 x 2.5 x 1.8	24.927	L5 Chondrite

Macroscopic Description: Cecilia Satterwhite

Exterior of this meteorite is gray with some rusty oxidation and fractures. The interior is a fine grained mottled light/dark gray matrix with some light minerals, metal and oxidation.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

The meteorite is an L5 chondrite that is cross-cut by shock veins and has metal and sulfide melt blebs throughout. Olivines are Fa_{24}, pyroxenes are Fs_{20}.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18173	Dominion Range	25137	4.3 x 2.0 x 1.6	49.378	Iron-Ungrouped

Macroscopic Description: Cari Corrigan, Tim McCoy

This meteorite has an overall convex shape that bears a striking resemblance to the asteroid Eros. The concave surface is brown, lightly weathered and pitted. The convex surface has two prominent protrusions and is also lightly weathered and moderately pitted. Hints of a lip between the convex and concave surfaces are visible on each of the long surfaces of the mass.

Thin Section (,1) Description: Cari Corrigan, Tim McCoy

The section consists of equant kamacite grains up to 1.5 mm in dimension with interstitial ribbons of taenite and occasional schreibersite. Graphite blebs of a few tens of microns in size form swarms whose occurrence is independent of the kamacite grains structure. No fusion crust is observed on the section although α_2 structure is present along some margins of the meteorite and occasionally along kamacite-kamacite grain boundaries suggestive of an origin by shock. The average Ni concentrations determined from two perpendicular longitudinal traverses is 7 wt. % Ni. The meteorite contains less than 0.1 wt. % P. The meteorite is likely an ungrouped iron, not paired with other DOM irons.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18262	Dominion Range	24951	2.0 x 1.5 x 1.2	6.777	Lunar-Basaltic Breccia
DOM 18509		24847	3.4 x 2.7 x 1.5	16.520	
DOM 18543		24538	2.5 x 2.5 x 2.0	13.590	
DOM 18666		25119	4.5 x 3.2 x 2.3	45.870	
DOM 18678		24969	2.6 x 2.3 x 1.4	11.640	

Macroscopic Description: Kellye Pando, Cecilia Satterwhite

These samples exhibit similar fusion crusts that are mostly dark brown-black-green in color, and have shiny, glassy, frothy and/or rough textures. Areas without fusion crust are mostly dark gray matrix with inclusions of varying colors, dark brown to white measuring up to 2 mm in size. Fresh interiors are mostly dark gray-black with tan inclusions and some minor oxidation.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

These sections are similar enough that one description will suffice. These sections consist of a highly brecciated assemblage of mostly single mineral grains ranging up to 0.5 mm in size. Grains are dominated by pyroxene and plagioclase with rare large olivine fragments. Polymineralic igneous fragments/clasts include coarse grained gabbro and symplectites. Melt veins and pockets were observed in all sections. DOM 18262 contains a fine grained apparently anorthositic fragment (~2 mm in max dimension) and a few melt droplets (approx. 100 microns in diameter) were observed. Olivines are fayalitic (Fa_{90-99}), although two grains of Fa_{56} and Fa_{71} were analyzed. Pyroxene is dominantly pigeonite with fine exsolution, with orthopyroxene of $Fs_{27}Wo_{3}$ and augite $Fs_{50}Wo_{40}$. Rare high-FeO pigeonite (up to Fs_{80}) is observed associated with the symplectite. Fe/Mn of pyroxenes ranges from ~50-70. Plagioclase is calcic with $An_{90-97}Or_{0.1-0.7}$. These meteorites are lunar basaltic breccias, likely regolith breccias.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18286	Dominion Range	24995	2.9 x 2.5 x 1.5	20.330	CO3 Chondrite

Macroscopic Description: Kellye Pando

60% of exterior is covered with a very dark brown, rough, fractured fusion crust that has a few faint orange rust spots. Remaining exterior is covered with a varnish that is also very dark brown with light gray spots that are <1 mm. Fresh interior is dark gray-brown in the center with small light brown inclusions and has a rim of lighter gray matrix near exterior edges.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

The section consists of abundant small (up to 1 mm) chondrules, chondrule fragments and mineral grains in a dark matrix. Metal and sulfide occur within and rimming the chondrules. Olivine ranges in composition from Fa_{1-52}. Two pyroxene analyses are Fs_{1}. The meteorite is a CO3 chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18291	Dominion Range	25042	2.7 x 3.0 x 1.5	15.880	Eucrite (Brecciated)
DOM 18292		25050	2.2 x 2.4 x 1.2	10.660	

Macroscopic Description: Kellye Pando

The exteriors have dark brown-gray fusion crust that is shiny in some areas and rough in others. Exposed interior is light gray with black and white flecks <0.25 mm. Fresh interior is light gray with small black, white and gray inclusions up to 0.5 mm.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

These two brecciated sections consist of fine to medium grained ophitic basalts with apparent shock darkening as veins and patches. Modest iron oxide staining exists in both sections. One 6 mm (max dimension) clast in DOM 18291 exhibits a fine grained, granular texture. Pyroxenes are $Fs_{26-60}Wo_{2-44}$ and feldspars are $An_{82-86}Or_{1}$. These two meteorites are similar enough to consider pairing and are basaltic eucrites.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18629	Dominion Range	25336	3.0 x 2.6 x 1.9	17.640	Eucrite (Unbrecciated)

Macroscopic Description: Kellye Pando

Black fusion crust that is rough in some areas and shiny in others covers 90% of the exterior. There is one shiny, smooth brown spot that is about 3 mm in size. Exposed interior is light gray matrix with inclusions that range in color from white to dark gray to black. Fresh interior is a light gray matrix with dark gray and white inclusions and a few very small spots of orange rust, a couple of light grayish-brown inclusions and some dark gray-black reflective mineral grains.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

This section consist of a medium grained, ophitic basaltic texture of pyroxene and plagioclase cross cut by shock veins. Many pyroxene grains show mosaicism, particularly in association with shock veins. Pyroxenes are $Fs_{40-60}Wo_{5-30}$ and feldspars are $An_{66-90}Or_{0.3-4}$. The meteorite is a eucrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18636	Dominion Range	25379	1.7 x 1.6 x 1.0	3.620	CM2 Chondrite

Macroscopic Description: Cecilia Satterwhite

The exterior has heavily fractured black fusion crust, areas exposed are black with white specks and some oxidation. The interior is a fine grained matrix with light specks and heavy evaporites along the fractures.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

The section consists of abundant small (up to 1 mm) chondrules, chondrule fragments and mineral grains in a dark, altered matrix. Many chondrules show flattening and perhaps a preferred orientation. Aqueous alteration of the matrix is substantial, but the chondrules are only modestly altered. Olivine compositions are Fa_{1-46}. The meteorite is a CM2 chondrite.

Sample No.	Location	Field No.	Dimensions (cm)	Weight (g)	Classification
DOM 18787	Dominion Range	24929	1.5 x 1.2 x 1.2	3.443	Howardite

Macroscopic Description: Cecilia Satterwhite

85% black fusion crust covers the exterior, the exposed interior is tan colored with white and dark clasts/inclusions. The interior is a gray matrix with abundant light/dark inclusions/clasts, some are large, minor oxidation is visible.

Thin Section (,2) Description: Cari Corrigan, Tim McCoy

The section shows a groundmass of comminuted pyroxene and plagioclase (up to 3 mm) with fine- to coarse-grained basaltic clasts ranging up to 4 mm. Some of the clasts are sulfide rich. Most of the pyroxene is orthopyroxene with compositions ranging from $Fs_{20-52}Wo_{1-12}$ (most are Fs_{20-26}) and olivines are Fa_{12}. The meteorite is a howardite.

Table of magnetic susceptibility data and reclassification of DOM 10 EOCs (bolded entries involve reclassification)

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10001	H6	3343.2	5.17	36,2	-
DOM 10002	L5	1621.5	4.61	40,1	-
DOM 10003	L5	1104.2	4.53	40,1	-
DOM 10004	**L5**	**898.5**	**5.12**	**36,2**	**H5**
DOM 10005	L6	1083.31	4.64	40,1	-
DOM 10006	**LL5**	**821.717**	**4.88**	**36,2**	**L5**
DOM 10007	L6	583.7	4.42	40,1	-
DOM 10008	L5	471.2	4.71	40,1	-
DOM 10009	**L5**	**366.0**	**5.1**	**37,2**	**H5**
DOM 10010	**L5**	**640.8**	**5.13**	**37,2**	**H5**
DOM 10011	H6	22.9	5.23	36,1	-
DOM 10012	L5	44.15	4.54	36,1	-
DOM 10014	LL5	43.75	4.43	36,1	-
DOM 10015	**LL6**	**45.08**	**4.76**	**36,1**	**L6**
DOM 10016	**LL5**	**58.7**	**4.66**	**36,1**	**L5**
DOM 10017	**LL5**	**36.6**	**4.54**	**36,1**	**L5**
DOM 10018	L6	31.59	4.63	36,1	-
DOM 10019	**LL5**	**17.58**	**4.63**	**36,1**	**L5**
DOM 10020	**L5**	**27.746**	**5.14**	**36,1**	**H5**
DOM 10021	**LL5**	**13.162**	**4.69**	**36,1**	**L5**
DOM 10022	**LL5**	**23.505**	**4.68**	**36,1**	**L5**
DOM 10023	L6	10.412	4.65	36,1	-
DOM 10024	H6	11.705	5.17	36,1	-
DOM 10026	**L5**	**23.073**	**5.03**	**36,1**	**H5**
DOM 10027	L5	15.037	4.69	36,1	-
DOM 10028	L6	18.077	4.69	36,2	-
DOM 10029	H5	25.659	5.04	36,1	-
DOM 10030	H5	67.75	5.09	40,1	-
DOM 10031	L6	80.41	4.68	37,2	-
DOM 10032	L6	56.31	4.66	40,1	-
DOM 10033	L6	124.11	4.88	40,1	-
DOM 10034	**H6**	**79.84**	**4.68**	**37,2**	**L6**
DOM 10035	L6	87.78	4.81	40,1	-
DOM 10036	L6	81.3	4.68	40,1	-
DOM 10037	L6	48.46	4.74	40,1	-
DOM 10038	L6	79.29	4.77	40,1	-
DOM 10039	H5	95.23	5.25	40,1	-
DOM 10040	H5	17.36	5.21	36,1	-
DOM 10041	**LL6**	**24.01**	**4.74**	**36,1**	**L6**
DOM 10042	**L6**	**26.66**	**5.03**	**36,1**	**H6**
DOM 10043	**LL6**	**33.05**	**4.53**	**36,1**	**L6**
DOM 10044	**LL5**	**17.83**	**4.74**	**36,1**	**L5**
DOM 10045	**L6**	**12.66**	**5.26**	**36,1**	**H6**
DOM 10046	**LL6**	**15.07**	**4.72**	**36,1**	**L6**
DOM 10047	**LL5**	**22.36**	**4.59**	**36,1**	**L5**
DOM 10048	**LL6**	**24.71**	**4.61**	**36,1**	**L6**
DOM 10049	H5	12.04	5.26	36,1	-
DOM 10050	**LL5**	**259.79**	**5.2**	**37,2**	**H5**

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10051	H5	197.0	5.22	40,1	-
DOM 10052	H5	147.72	5.14	40,1	-
DOM 10053	L6	93.24	4.66	40,1	-
DOM 10054	L6	77.71	4.7	40,1	-
DOM 10055	H5	67.84	5.11	40,1	-
DOM 10056	**H5**	**43.15**	**4.96**	**40,1**	**L5**
DOM 10057	L6	67.03	4.68	40,1	-
DOM 10058	L6	67.88	4.84	40,1	-
DOM 10059	L6	33.65	4.55	37,1	-
DOM 10060	L6	42.31	4.59	40,1	-
DOM 10061	L6	40.63	4.5	40,1	-
DOM 10062	L6	21.37	4.71	40,1	-
DOM 10063	L6	20.48	4.74	40,1	-
DOM 10064	L5	32.82	4.61	37,1	-
DOM 10065	L6	26.98	4.73	40,1	-
DOM 10066	L6	28.0	4.73	40,1	-
DOM 10067	L6	19.62	4.56	40,1	-
DOM 10068	L6	23.95	4.57	40,1	-
DOM 10069	**H5**	**19.62**	**4.93**	**37,1**	**L5**
DOM 10070	L6	12.63	4.5	40,1	-
DOM 10071	H6	14.17	5.0	37,1	-
DOM 10072	H6	17.86	5.04	40,1	-
DOM 10073	L6	8.88	4.65	40,1	-
DOM 10074	H6	14.37	5.15	40,1	-
DOM 10075	L6	22.04	4.53	40,1	-
DOM 10076	H6	18.5	5.04	40,1	-
DOM 10077	CR2	8.56	4.39	37,1	-
DOM 10078	H5	14.13	5.12	40,1	-
DOM 10079	L6	23.25	4.56	40,1	-
DOM 10080	L5	15.11	4.95	37,1	-
DOM 10081	L6	36.26	4.76	40,1	-
DOM 10082	L6	33.95	4.73	40,1	-
DOM 10083	L6	28.31	4.68	40,1	-
DOM 10084	L5	17.16	4.62	40,1	-
DOM 10085	CR2	18.15	4.18	37,1	-
DOM 10086	H6	23.61	4.99	40,1	-
DOM 10087	L6	45.15	4.62	40,1	-
DOM 10088	EL6	33.97	5.32	37,1	-
DOM 10089	H5	21.95	5.28	40,1	-
DOM 10090	**LL6**	**24.638**	**4.73**	**37,1**	**L6**
DOM 10091	**LL6**	**13.896**	**4.7**	**37,1**	**L6**
DOM 10093	L5	15.635	4.89	37,1	-
DOM 10095	L6	26.523	4.9	37,1	-
DOM 10096	**LL6**	**24.488**	**4.71**	**37,1**	**L6**
DOM 10097	L5	18.137	4.86	37,1	-
DOM 10098	**LL6**	**24.291**	**4.67**	**37,1**	**L6**
DOM 10099	**LL6**	**12.36**	**4.77**	**37,1**	**L6**
DOM 10100	HOWARDITE	425.95	3.38	34,2	-
DOM 10101	CO3	241.8	4.89	37,1	-
DOM 10102	CV3	61.072	4.58	34,2	-
DOM 10103	EUCRITE (BRECCIATED)	73.64	2.91	34,2	-

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10104	CO3	200.952	4.78	34,2	-
DOM 10105	HOWARDITE	40.88	3.17	34,2	-
DOM 10106	**L5**	**36.754**	**5.09**	**37,1**	**H5**
DOM 10107	**L5**	**39.054**	**5.14**	**37,1**	**H5**
DOM 10108	**LL6**	**32.32**	**4.72**	**37,1**	**L6**
DOM 10109	**LL6**	**52.748**	**4.67**	**37,1**	**L6**
DOM 10110	**LL6**	**44.53**	**4.65**	**37,1**	**L6**
DOM 10111	**LL6**	**15.81**	**4.68**	**37,1**	**L6**
DOM 10112	**LL6**	**41.45**	**4.71**	**37,1**	**L6**
DOM 10113	H6	18.02	5.28	37,1	-
DOM 10114	L (IMPACT MELT)	10.95	4.6	37,1	-
DOM 10115	**LL6**	**22.35**	**4.63**	**37,1**	**L6**
DOM 10116	**LL6**	**59.54**	**4.65**	**37,1**	**L6**
DOM 10117	**LL6**	**39.88**	**4.62**	**37,1**	**L6**
DOM 10118	**LL6**	**33.88**	**4.72**	**37,1**	**L6**
DOM 10119	**L5**	**20.96**	**5.12**	**37,1**	**H5**
DOM 10120	HOWARDITE	65.72	3.06	34,2	-
DOM 10121	CO3	16.151	4.0	34,2	-
DOM 10123	**LL5**	**31.363**	**4.69**	**36,2**	**L5**
DOM 10124	**L6**	**22.453**	**5.23**	**36,2**	**H6**
DOM 10125	**LL5**	**26.144**	**4.69**	**36,2**	**L5**
DOM 10126	**LL5**	**22.291**	**4.63**	**36,2**	**L5**
DOM 10127	**LL5**	**19.256**	**4.7**	**36,2**	**L5**
DOM 10128	**LL5**	**26.041**	**4.77**	**36,2**	**L5**
DOM 10129	**LL5**	**30.193**	**4.64**	**36,2**	**L5**
DOM 10130	L5	50.364	4.62	37,1	-
DOM 10131	L5	72.338	4.93	37,1	-
DOM 10132	H4	65.019	5.08	37,1	-
DOM 10133	**LL6**	**45.885**	**4.8**	**37,1**	**L6**
DOM 10134	**LL6**	**90.015**	**4.84**	**37,1**	**L6**
DOM 10135	**LL6**	**77.042**	**4.8**	**37,1**	**L6**
DOM 10136	**LL6**	**110.873**	**4.76**	**37,1**	**L6**
DOM 10137	**LL6**	**125.975**	**4.78**	**37,1**	**L6**
DOM 10138	**LL6**	**95.307**	**4.69**	**37,1**	**L6**
DOM 10139	**LL6**	**58.844**	**4.48**	**37,1**	**L6**
DOM 10140	L5	223.77	4.6	40,1	-
DOM 10141	**LL5**	**177.48**	**4.75**	**37,1**	**L5**
DOM 10142	**LL6**	**253.77**	**4.76**	**37,1**	**L6**
DOM 10143	L6	124.56	4.67	40,1	-
DOM 10144	L6	80.66	4.67	40,1	-
DOM 10145	L6	71.35	4.56	40,1	-
DOM 10146	L6	42.44	4.61	40,1	-
DOM 10147	H5	42.327	5.06	37,1	-
DOM 10148	L6	54.51	4.7	40,1	-
DOM 10149	H5	61.01	5.12	40,1	-
DOM 10150	L6	23.0	4.72	40,1	-
DOM 10151	L6	31.93	4.77	40,1	-
DOM 10152	L6	34.26	4.65	40,1	-
DOM 10153	L6	35.55	4.51	40,1	-
DOM 10154	L6	27.33	4.71	40,1	-
DOM 10155	L6	52.95	4.65	40,1	-

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10156	L6	36.2	4.71	40,1	-
DOM 10157	L5	23.93	4.84	40,1	-
DOM 10158	**H6**	**11.97**	**4.9**	**37,1**	**L6**
DOM 10159	H6	14.45	4.98	37,1	-
DOM 10160	H6	5.94	5.07	40,1	-
DOM 10161	H5	10.09	5.28	37,1	-
DOM 10162	L6	14.7	4.62	40,1	-
DOM 10163	L6	10.38	4.63	40,1	-
DOM 10164	H6	11.31	5.05	40,1	-
DOM 10166	L6	11.3	4.68	40,1	-
DOM 10167	**H6**	**2.49**	**4.94**	**40,1**	**L6**
DOM 10168	L6	14.0	4.59	40,1	-
DOM 10169	L6	15.0	4.59	40,1	-
DOM 10170	**LL5**	**49.52**	**4.56**	**36,2**	**L5**
DOM 10171	**LL5**	**66.79**	**4.7**	**36,2**	**L5**
DOM 10172	**LL6**	**33.18**	**4.66**	**36,2**	**L6**
DOM 10173	**LL5**	**32.69**	**4.72**	**36,2**	**L5**
DOM 10174	L6	35.9	4.53	36,2	-
DOM 10175	**LL5**	**24.61**	**4.57**	**36,2**	**L5**
DOM 10176	L5	18.79	4.68	36,2	-
DOM 10177	H6	17.02	4.97	36,2	-
DOM 10178	L6	18.98	4.67	36,2	-
DOM 10179	**LL6**	**25.6**	**4.52**	**36,2**	**L6**
DOM 10180	L5	19.58	4.62	37,1	-
DOM 10181	L6	8.73	4.65	40,1	-
DOM 10182	L5	10.03	4.72	40,1	-
DOM 10183	L6	18.67	4.67	37,1	-
DOM 10184	L6	30.03	4.55	40,1	-
DOM 10185	L6	21.06	4.6	40,1	-
DOM 10186	**H6**	**34.12**	**4.6**	**37,1**	**L6**
DOM 10187	L6	14.15	4.81	37,1	-
DOM 10188	H5	21.61	4.97	37,1	-
DOM 10189	L6	18.31	4.56	37,1	-
DOM 10190	**LL6**	**90.39**	**4.57**	**37,1**	**L6**
DOM 10191	**LL6**	**46.23**	**4.62**	**37,1**	**L6**
DOM 10192	**LL6**	**65.68**	**4.58**	**37,1**	**L6**
DOM 10193	**LL5**	**65.43**	**4.52**	**37,1**	**L5**
DOM 10194	**LL6**	**72.98**	**4.64**	**37,1**	**L6**
DOM 10195	**L5**	**98.8**	**3.16**	**37,1**	**LL5**
DOM 10196	**LL6**	**77.43**	**4.72**	**37,1**	**L6**
DOM 10197	**LL6**	**61.79**	**4.56**	**37,1**	**L6**
DOM 10198	**LL6**	**35.92**	**4.56**	**37,1**	**L6**
DOM 10199	LL6	29.1	4.45	37,1	-
DOM 10200	L6	445.9	4.55	40,1	-
DOM 10201	**LL6**	**231.0**	**4.64**	**37,1**	**L6**
DOM 10202	**LL6**	**245.5**	**5.12**	**37,1**	**H6**
DOM 10203	**L5**	**210.7**	**5.28**	**37,1**	**H5**
DOM 10204	**H6**	**136.062**	**4.89**	**37,1**	**L6**
DOM 10205	**LL6**	**106.215**	**4.62**	**37,1**	**L6**
DOM 10206	H6	106.676	5.08	37,1	-
DOM 10207	**LL6**	**133.045**	**4.61**	**37,1**	**L6**

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10208	**L6**	**133.021**	**5.14**	**37,1**	**H6**
DOM 10209	**L5**	**96.019**	**5.18**	**37,1**	**H5**
DOM 10210	L5	36.0	4.68	40,1	-
DOM 10211	L6	24.22	4.62	36,2	-
DOM 10212	L5	25.39	4.72	40,1	-
DOM 10213	**H6**	**22.9**	**4.9**	**36,2**	**L6**
DOM 10214	L5	21.42	4.6	40,1	-
DOM 10215	L5	18.9	4.53	36,2	-
DOM 10216	L5	33.67	4.74	40,1	-
DOM 10217	H5	18.61	4.97	40,1	-
DOM 10218	L5	33.2	4.6	40,1	-
DOM 10219	L5	11.2	4.61	40,1	-
DOM 10220	L6	78.87	4.69	40,1	-
DOM 10221	L6	52.2	4.66	40,1	-
DOM 10222	L6	46.76	4.59	40,1	-
DOM 10223	L6	49.76	4.65	40,1	-
DOM 10224	L6	49.55	4.76	40,1	-
DOM 10225	L6	60.04	4.61	40,1	-
DOM 10226	L6	32.7	4.67	40,1	-
DOM 10227	L6	44.43	4.55	40,1	-
DOM 10228	**H6**	**59.28**	**4.94**	**40,1**	**L6**
DOM 10229	L6	56.34	4.76	40,1	-
DOM 10230	L6	17.83	4.55	40,1	-
DOM 10231	L6	7.71	4.9	37,1	-
DOM 10232	L6	10.5	4.77	37,1	-
DOM 10233	L6	11.34	4.54	40,1	-
DOM 10234	H6	13.72	4.98	40,1	-
DOM 10235	H6	9.07	4.98	40,1	-
DOM 10236	L6	19.23	4.62	40,1	-
DOM 10237	H6	10.18	5.0	40,1	-
DOM 10238	L6	9.23	4.64	40,1	-
DOM 10239	L6	18.83	4.58	40,1	-
DOM 10240	L6	110.53	4.68	40,1	-
DOM 10241	L6	102.54	4.66	40,1	-
DOM 10242	L6	72.7	4.67	40,1	-
DOM 10243	L6	52.38	4.65	40,1	-
DOM 10244	L6	103.15	4.7	40,1	-
DOM 10245	L6	45.95	4.69	40,1	-
DOM 10246	H6	79.4	5.17	40,1	-
DOM 10247	H6	43.8	5.04	40,1	-
DOM 10248	L6	49.39	4.72	37,1	-
DOM 10249	L6	64.14	4.73	40,1	-
DOM 10255	**LL5**	**13.966**	**4.48**	**36,2**	**L5**
DOM 10256	**LL5**	**13.917**	**4.67**	**36,2**	**L5**
DOM 10257	CV3	11.72	3.69	37,1	-
DOM 10260	H5	34.82	5.01	40,1	-
DOM 10261	L6	36.29	4.76	40,1	-
DOM 10262	L6	31.86	4.91	37,1	-
DOM 10263	L6	30.78	4.57	40,1	-
DOM 10264	L6	21.31	4.8	40,1	-
DOM 10265	L6	16.88	4.69	40,1	-

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10266	L6	28.35	4.75	40,1	-
DOM 10267	L6	33.53	4.64	40,1	-
DOM 10268	L6	36.51	4.55	40,1	-
DOM 10269	L6	36.62	4.77	40,1	-
DOM 10270	**H6**	**2.06**	**4.95**	**40,1**	**L6**
DOM 10271	L6	2.53	4.55	36,2	-
DOM 10272	L5	5.64	4.58	40,1	-
DOM 10273	L6	2.69	4.53	36,2	-
DOM 10274	L5	7.94	4.67	40,1	-
DOM 10275	LL5	9.16	3.9	36,2	-
DOM 10276	L5	9.36	4.66	40,1	-
DOM 10277	L5	12.42	4.68	40,1	-
DOM 10278	H6	9.47	5.16	36,2	-
DOM 10279	L5	4.67	4.7	40,1	-
DOM 10280	**LL5**	**23.897**	**4.57**	**36,2**	**L5**
DOM 10281	**LL5**	**33.575**	**4.67**	**36,2**	**L5**
DOM 10282	**LL6**	**33.671**	**4.49**	**36,2**	**L6**
DOM 10283	LL5	18.477	3.91	37,1	-
DOM 10284	**LL5**	**23.249**	**4.61**	**36,2**	**L5**
DOM 10285	L5	26.014	4.65	36,2	-
DOM 10286	L5	26.316	4.73	36,2	-
DOM 10287	**L5**	**16.093**	**5.15**	**36,2**	**H5**
DOM 10288	**LL5**	**47.522**	**4.67**	**36,2**	**L5**
DOM 10289	**LL5**	**33.583**	**4.66**	**36,2**	**L5**
DOM 10290	L6	48.31	4.69	40,1	-
DOM 10291	L6	39.56	4.71	40,1	-
DOM 10292	L6	44.86	4.79	40,1	-
DOM 10293	H6	41.23	5.01	40,1	-
DOM 10294	L6	45.44	4.82	40,1	-
DOM 10295	H5	42.19	5.03	40,1	-
DOM 10296	L6	48.63	4.72	40,1	-
DOM 10297	L6	28.88	4.64	40,1	-
DOM 10298	H6	46.17	5.14	40,1	-
DOM 10299	CO3	14.808	3.95	34,2	-
DOM 10300	L6	409.6	4.47	40,1	-
DOM 10301	**LL6**	**274.2**	**4.77**	**37,1**	**L6**
DOM 10302	L (IMPACT MELT)	227.1	4.69	37,1	-
DOM 10303	LL6	324.4	4.4	37,1	-
DOM 10304	**LL6**	**131.157**	**4.74**	**37,1**	**L6**
DOM 10305	H6	87.651	5.06	37,1	-
DOM 10306	**LL6**	**98.381**	**4.69**	**37,1**	**L6**
DOM 10307	**L5**	**169.982**	**5.3**	**37,1**	**H5**
DOM 10308	**LL6**	**98.67**	**4.72**	**37,1**	**L6**
DOM 10309	**LL6**	**71.429**	**4.66**	**37,1**	**L6**
DOM 10310	**LL5**	**78.47**	**4.69**	**36,1**	**L5**
DOM 10311	**LL5**	**58.62**	**4.66**	**36,1**	**L5**
DOM 10312	**LL6**	**40.39**	**4.79**	**36,1**	**L6**
DOM 10313	**LL5**	**44.4**	**4.65**	**36,1**	**L5**
DOM 10314	**LL5**	**52.64**	**4.73**	**36,1**	**L5**
DOM 10315	**LL5**	**54.93**	**4.64**	**36,1**	**L5**
DOM 10316	**LL6**	**60.53**	**4.64**	**36,1**	**L6**

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10317	H6	35.98	5.15	36,1	-
DOM 10318	**LL6**	**57.0**	**4.63**	**36,1**	**L6**
DOM 10319	**LL6**	**36.6**	**4.8**	**36,1**	**L6**
DOM 10320	**LL5**	**26.51**	**4.52**	**36,1**	**L5**
DOM 10321	**H6**	**25.16**	**4.63**	**36,1**	**L6**
DOM 10322	LL4-5	11.288	4.21	36,1	-
DOM 10324	H6	16.694	5.04	36,1	-
DOM 10325	**LL6**	**39.066**	**4.83**	**36,1**	**L6**
DOM 10326	**LL6**	**24.01**	**4.61**	**36,1**	**L6**
DOM 10327	L5	21.25	4.66	36,1	-
DOM 10328	**LL6**	**23.03**	**4.59**	**36,1**	**L6**
DOM 10329	LL6	12.238	4.45	36,1	-
DOM 10330	**LL6**	**16.346**	**4.73**	**37,1**	**L6**
DOM 10331	L6	17.921	4.84	37,1	-
DOM 10332	**LL6**	**19.675**	**4.73**	**37,1**	**L6**
DOM 10333	**L6**	**10.3**	**5.15**	**37,1**	**H6**
DOM 10334	**LL5**	**36.078**	**4.69**	**37,1**	**L5**
DOM 10335	**L6**	**19.397**	**5.2**	**37,1**	**H6**
DOM 10336	**LL6**	**37.008**	**4.68**	**37,1**	**L6**
DOM 10337	L6	41.365	4.85	37,1	-
DOM 10338	**L5**	**52.208**	**5.11**	**37,1**	**H5**
DOM 10339	**LL6**	**40.282**	**4.69**	**37,1**	**L6**
DOM 10340	L6	92.128	4.79	37,1	-
DOM 10341	**L5**	**57.719**	**5.11**	**37,1**	**H5**
DOM 10342	**LL5**	**110.269**	**4.67**	**37,1**	**L5**
DOM 10343	**L5**	**61.31**	**5.14**	**37,1**	**H5**
DOM 10344	LL3.4	68.363	4.3	37,2	-
DOM 10345	**LL6**	**71.215**	**4.91**	**37,1**	**L6**
DOM 10346	**LL6**	**59.118**	**4.71**	**37,1**	**L6**
DOM 10347	H6	74.474	5.17	37,1	-
DOM 10348	**L5**	**87.317**	**5.13**	**37,1**	**H5**
DOM 10349	**LL6**	**106.501**	**4.84**	**37,1**	**L6**
DOM 10350	DIOGENITE	27.29	2.88	34,2	-
DOM 10351	CV3	38.374	4.02	34,2	-
DOM 10352	H5	24.776	5.14	36,1	-
DOM 10353	H6	12.174	5.26	36,1	-
DOM 10354	**LL6**	**17.288**	**4.76**	**36,1**	**L6**
DOM 10355	**LL6**	**30.539**	**4.53**	**36,1**	**L6**
DOM 10356	**LL6**	**21.689**	**4.66**	**36,1**	**L6**
DOM 10357	**LL6**	**32.407**	**4.59**	**36,1**	**L6**
DOM 10358	**LL6**	**30.725**	**4.62**	**36,1**	**L6**
DOM 10359	**LL6**	**22.656**	**4.72**	**36,1**	**L6**
DOM 10362	H5	10.691	5.08	36,1	-
DOM 10364	**L5**	**25.402**	**5.21**	**36,1**	**H5**
DOM 10369	**H6**	**10.759**	**4.95**	**36,1**	**L6**
DOM 10370	H6	18.33	5.26	40,1	-
DOM 10371	H6	24.64	5.2	40,1	-
DOM 10372	L6	19.45	4.61	40,1	-
DOM 10373	L6	30.39	4.54	40,1	-
DOM 10374	L6	57.07	4.6	40,1	-
DOM 10375	L5	73.07	4.75	40,1	-

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10376	L5	50.6	4.87	40,1	-
DOM 10377	L6	41.88	4.82	40,1	-
DOM 10378	L6	33.21	4.71	37,1	-
DOM 10379	L6	91.47	4.64	40,1	-
DOM 10380	**LL6**	**19.43**	**4.64**	**37,1**	**L6**
DOM 10381	**LL6**	**31.94**	**4.53**	**37,1**	**L6**
DOM 10382	**LL6**	**23.01**	**4.67**	**37,1**	**L6**
DOM 10383	**L6**	**29.21**	**5.12**	**37,1**	**H6**
DOM 10384	**H6**	**14.03**	**4.42**	**37,1**	**L6**
DOM 10385	**LL6**	**22.37**	**4.71**	**37,1**	**L6**
DOM 10386	**LL6**	**16.86**	**4.72**	**37,1**	**L6**
DOM 10387	L5	13.93	4.93	37,1	-
DOM 10388	**LL6**	**16.39**	**4.69**	**37,1**	**L6**
DOM 10389	L6	10.72	4.64	37,1	-
DOM 10390	**LL6**	**99.79**	**4.67**	**37,1**	**L6**
DOM 10391	**LL6**	**139.731**	**4.78**	**37,1**	**L6**
DOM 10392	**L5**	**179.454**	**5.08**	**37,1**	**H5**
DOM 10393	L6	75.996	4.68	37,1	-
DOM 10394	**LL6**	**73.569**	**4.79**	**37,1**	**L6**
DOM 10395	**LL6**	**52.995**	**4.7**	**37,1**	**L6**
DOM 10396	**LL6**	**73.238**	**4.64**	**37,1**	**L6**
DOM 10397	L6	59.04	4.65	37,1	-
DOM 10398	**LL6**	**42.793**	**4.71**	**37,1**	**L6**
DOM 10399	**LL6**	**44.846**	**4.67**	**37,1**	**L6**
DOM 10400	**LL5**	**35.46**	**4.62**	**36,2**	**L5**
DOM 10401	**LL5**	**40.8**	**4.98**	**36,2**	**L5**
DOM 10402	**LL5**	**36.97**	**4.66**	**36,2**	**L5**
DOM 10403	**LL5**	**37.95**	**4.78**	**36,2**	**L5**
DOM 10404	**H5**	**38.8**	**4.92**	**36,2**	**L5**
DOM 10405	H5-6	23.75	5.02	36,2	-
DOM 10406	**LL5**	**10.59**	**4.73**	**36,2**	**L5**
DOM 10407	H6	11.97	5.03	36,2	-
DOM 10408	**LL5**	**14.25**	**4.67**	**36,2**	**L5**
DOM 10409	**H6**	**13.29**	**4.88**	**36,2**	**L6**
DOM 10413	**LL6**	**11.57**	**4.7**	**36,2**	**L6**
DOM 10415	**H5**	**12.54**	**4.85**	**36,2**	**L5**
DOM 10418	H6	10.63	4.98	36,2	-
DOM 10419	**LL6**	**15.13**	**4.7**	**36,2**	**L6**
DOM 10420	L6	13.753	4.96	37,1	-
DOM 10421	**L6**	**18.807**	**3.94**	**37,1**	**LL6**
DOM 10422	**LL6**	**26.109**	**4.62**	**37,1**	**L6**
DOM 10423	**L5**	**28.275**	**5.19**	**37,1**	**H5**
DOM 10424	**LL6**	**22.595**	**4.59**	**37,1**	**L6**
DOM 10425	**LL6**	**41.526**	**4.71**	**37,1**	**L6**
DOM 10426	**LL6**	**57.008**	**4.75**	**37,1**	**L6**
DOM 10427	**L5**	**39.948**	**5.08**	**37,1**	**H5**
DOM 10428	**LL6**	**52.562**	**4.65**	**37,1**	**L6**
DOM 10429	**LL6**	**16.732**	**4.54**	**37,1**	**L6**
DOM 10430	LL6	5.62	4.42	36,2	-
DOM 10431	**L6**	**10.85**	**4.02**	**36,2**	**LL6**
DOM 10432	**L6**	**8.75**	**4.38**	**40,1**	**LL6**

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10434	**H6**	**8.01**	**4.89**	**36,2**	**L6**
DOM 10435	**H4**	**9.32**	**4.56**	**36,2**	**L4**
DOM 10436	L5	14.0	4.45	40,1	-
DOM 10437	L5	15.9	4.46	40,1	-
DOM 10438	L5	23.38	4.48	40,1	-
DOM 10440	L (IMPACT MELT)	22.61	4.48	36,2	-
DOM 10441	H5	17.8	5.15	36,2	-
DOM 10442	LL5	38.09	4.35	36,2	-
DOM 10443	L5	46.1	4.57	40,1	-
DOM 10444	L6	42.29	4.59	40,1	-
DOM 10445	L5	41.98	4.61	36,2	-
DOM 10446	L5	35.38	4.53	40,1	-
DOM 10447	L5	78.54	4.59	40,1	-
DOM 10448	L6	55.71	4.45	40,1	-
DOM 10449	L5	89.64	4.74	40,1	-
DOM 10450	**LL6**	**179.426**	**4.69**	**37,1**	**L6**
DOM 10451	**LL6**	**173.577**	**4.82**	**37,1**	**L6**
DOM 10452	**L5**	**99.541**	**5.1**	**37,1**	**H5**
DOM 10453	**LL6**	**75.102**	**4.72**	**37,1**	**L6**
DOM 10454	**L6**	**196.371**	**5.24**	**37,1**	**H6**
DOM 10455	**L5**	**45.94**	**4.39**	**36,2**	**LL5**
DOM 10456	L5	59.8	4.52	36,2	-
DOM 10457	L5	62.33	4.56	40,1	-
DOM 10458	L5	84.58	4.86	36,2	-
DOM 10459	**H5**	**42.39**	**4.51**	**36,2**	**L5**
DOM 10460	L6	44.38	4.73	40,1	-
DOM 10461	L6	80.48	4.55	40,1	-
DOM 10462	L6	49.46	4.47	40,1	-
DOM 10463	L6	60.77	4.72	40,1	-
DOM 10464	L6	41.19	4.88	40,1	-
DOM 10465	L6	40.21	4.74	40,1	-
DOM 10466	L6	15.5	4.81	40,1	-
DOM 10467	CR2	28.26	4.16	37,1	-
DOM 10468	L6	24.08	4.61	40,1	-
DOM 10469	L5	23.44	4.68	37,1	-
DOM 10470	**LL6**	**22.737**	**4.63**	**37,1**	**L6**
DOM 10471	**LL6**	**22.699**	**4.63**	**37,1**	**L6**
DOM 10472	**L5**	**37.814**	**5.1**	**37,1**	**H5**
DOM 10473	**LL6**	**42.456**	**4.52**	**37,1**	**L6**
DOM 10474	**LL6**	**39.031**	**4.62**	**37,1**	**L6**
DOM 10475	**LL6**	**29.503**	**4.62**	**37,1**	**L6**
DOM 10476	**LL5**	**32.328**	**5.01**	**37,1**	-
DOM 10477	L6	27.025	4.7	37,1	-
DOM 10478	**LL6**	**37.935**	**4.49**	**37,1**	**L6**
DOM 10479	**LL6**	**20.697**	**4.72**	**37,1**	**L6**
DOM 10480	L6	12.94	4.54	36,1	-
DOM 10481	L6	10.23	4.47	36,1	-
DOM 10482	L6	12.83	4.59	36,1	-
DOM 10485	**LL6**	**27.46**	**4.5**	**36,1**	**L6**
DOM 10486	**L5**	**24.28**	**5.1**	**36,1**	**H5**
DOM 10487	L6	22.93	4.68	36,1	-

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10488	L6	24.14	4.74	36,1	-
DOM 10489	**LL6**	**12.71**	**4.73**	**36,1**	**L6**
DOM 10490	LL3.2	115.9	4.23	37,2	-
DOM 10491	**LL6**	**96.74**	**4.64**	**37,1**	**L6**
DOM 10492	**L6**	**126.34**	**5.14**	**37,1**	**H6**
DOM 10493	L5	265.88	4.98	37,1	-
DOM 10494	**LL6**	**164.44**	**4.81**	**37,1**	**L6**
DOM 10495	L6	51.57	4.68	36,1	-
DOM 10496	**LL6**	**55.74**	**4.72**	**36,1**	**L6**
DOM 10497	**LL6**	**34.27**	**4.75**	**36,1**	**L6**
DOM 10498	**LL6**	**26.98**	**4.74**	**36,1**	**L6**
DOM 10499	**LL6**	**34.29**	**4.63**	**36,1**	**L6**
DOM 10500	**LL6**	**78.36**	**4.62**	**36,1**	**L6**
DOM 10501	**LL6**	**52.13**	**4.65**	**36,1**	**L6**
DOM 10502	**LL6**	**53.02**	**4.66**	**36,1**	**L6**
DOM 10503	**LL6**	**73.74**	**4.66**	**36,1**	**L6**
DOM 10504	**LL6**	**53.81**	**4.53**	**36,1**	**L6**
DOM 10505	**LL6**	**56.84**	**4.6**	**36,1**	**L6**
DOM 10506	**H5**	**52.1**	**4.69**	**36,1**	**L5**
DOM 10507	**LL5**	**35.79**	**4.54**	**36,1**	**L5**
DOM 10508	**LL6**	**46.48**	**4.63**	**36,1**	**L6**
DOM 10509	**L5**	**38.41**	**5.07**	**36,1**	**H5**
DOM 10510	L6	30.0	4.73	36,1	-
DOM 10511	**L5**	**14.49**	**5.13**	**36,1**	**H5**
DOM 10512	**LL6**	**32.88**	**4.58**	**36,1**	**L6**
DOM 10513	**LL6**	**30.19**	**4.64**	**36,1**	**L6**
DOM 10514	**LL6**	**22.52**	**4.77**	**36,1**	**L6**
DOM 10515	**LL6**	**23.91**	**4.49**	**36,1**	**L6**
DOM 10516	**L6**	**13.26**	**5.01**	**36,1**	**H6**
DOM 10517	**LL6**	**19.6**	**4.69**	**36,1**	**L6**
DOM 10520	**LL6**	**51.77**	**4.71**	**37,1**	**L6**
DOM 10521	**LL5**	**69.8**	**4.58**	**37,1**	**L5**
DOM 10522	**LL6**	**44.31**	**4.61**	**37,1**	**L6**
DOM 10523	**LL6**	**42.39**	**4.65**	**37,1**	**L6**
DOM 10524	L5	34.42	4.95	37,1	-
DOM 10525	**LL6**	**46.75**	**4.58**	**37,1**	**L6**
DOM 10526	**L5**	**21.33**	**5.01**	**37,1**	**H5**
DOM 10527	L6	39.72	4.61	37,1	-
DOM 10528	**LL6**	**24.82**	**4.71**	**37,1**	**L6**
DOM 10529	**LL6**	**18.88**	**4.79**	**37,1**	**L6**
DOM 10530	**H6**	**17.85**	**3.97**	**36,1**	**LL6**
DOM 10531	H6	15.22	4.44	36,1	-
DOM 10533	**LL5**	**15.41**	**4.73**	**36,1**	**L5**
DOM 10534	L6	12.98	4.72	36,1	-
DOM 10536	**LL5**	**17.08**	**4.66**	**36,1**	**L5**
DOM 10537	**LL6**	**13.22**	**4.57**	**36,1**	**L6**
DOM 10538	**LL6**	**13.9**	**4.66**	**36,1**	**L6**
DOM 10539	**LL6**	**29.02**	**4.54**	**36,1**	**L6**
DOM 10540	H6	22.306	5.24	36,1	-
DOM 10541	**LL5**	**30.375**	**4.61**	**36,1**	**L5**
DOM 10542	L5	38.829	4.58	36,1	-

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10543	**LL5**	**33.371**	**4.81**	**36,1**	**L5**
DOM 10544	H6	41.587	5.14	36,1	-
DOM 10545	L6	38.234	4.82	40,1	-
DOM 10546	**LL5**	**41.079**	**4.72**	**36,1**	**L5**
DOM 10547	**LL6**	**25.168**	**4.69**	**36,1**	**L6**
DOM 10548	L6	24.91	4.71	36,1	-
DOM 10549	L5	37.733	4.72	36,1	-
DOM 10550	**L5**	**89.7**	**5.19**	**37,1**	**H5**
DOM 10551	**LL6**	**70.402**	**4.65**	**37,1**	**L6**
DOM 10552	**LL6**	**47.07**	**4.7**	**37,1**	**L6**
DOM 10553	**LL6**	**57.889**	**4.68**	**37,1**	**L6**
DOM 10554	**LL6**	**83.648**	**4.63**	**37,1**	**L6**
DOM 10555	**LL6**	**62.456**	**4.75**	**37,1**	**L6**
DOM 10556	L3.6	119.876	4.44	37,2	-
DOM 10557	**LL6**	**102.026**	**4.83**	**37,1**	**L6**
DOM 10558	**LL6**	**86.897**	**4.62**	**37,1**	**L6**
DOM 10559	**LL6**	**104.801**	**4.62**	**37,1**	**L6**
DOM 10560	**LL5**	**36.78**	**4.67**	**37,2**	**L5**
DOM 10561	**LL6**	**71.25**	**4.62**	**37,2**	**L6**
DOM 10562	H6	56.55	5.37	37,2	-
DOM 10563	**LL6**	**66.53**	**4.54**	**37,2**	**L6**
DOM 10564	**LL6**	**80.51**	**4.62**	**37,2**	**L6**
DOM 10565	L6	43.62	4.56	37,2	-
DOM 10566	L5	38.47	4.78	36,1	-
DOM 10567	H6	49.93	5.08	37,2	-
DOM 10568	**LL6**	**50.11**	**4.63**	**37,2**	**L6**
DOM 10569	**LL6**	**44.78**	**4.74**	**37,2**	**L6**
DOM 10570	**L5**	**15.43**	**5.21**	**37,1**	**H5**
DOM 10571	**LL6**	**22.39**	**4.62**	**37,1**	**L6**
DOM 10572	L6	18.11	4.73	37,1	-
DOM 10573	L6	17.03	4.74	37,1	-
DOM 10574	**LL6**	**35.83**	**4.62**	**37,1**	**L6**
DOM 10575	**L5**	**17.2**	**5.2**	**37,1**	**H5**
DOM 10576	**LL6**	**24.87**	**4.74**	**37,1**	**L6**
DOM 10577	**LL6**	**41.3**	**4.69**	**37,1**	**L6**
DOM 10578	**LL6**	**31.0**	**4.61**	**37,1**	**L6**
DOM 10579	**L5**	**33.96**	**5.19**	**37,1**	**H5**
DOM 10580	**LL6**	**53.759**	**4.75**	**37,1**	**L6**
DOM 10581	**LL5**	**69.479**	**4.58**	**37,1**	**L5**
DOM 10582	**L6**	**45.21**	**5.22**	**37,1**	**H6**
DOM 10583	**LL6**	**57.038**	**4.64**	**37,1**	**L6**
DOM 10584	**LL6**	**83.131**	**4.69**	**37,1**	**L6**
DOM 10585	**LL6**	**82.254**	**4.63**	**37,1**	**L6**
DOM 10586	**LL6**	**75.035**	**4.6**	**37,1**	**L6**
DOM 10587	**LL6**	**55.068**	**4.63**	**37,1**	**L6**
DOM 10588	**LL6**	**53.703**	**4.56**	**37,1**	**L6**
DOM 10589	L6	38.006	4.58	37,1	-
DOM 10590	L6	20.49	4.63	36,1	-
DOM 10591	H6	39.23	5.11	36,1	-
DOM 10592	**LL6**	**39.15**	**4.6**	**36,1**	**L6**
DOM 10593	L6	47.47	4.67	36,1	-

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10594	L6	39.29	4.63	36,1	-
DOM 10595	L5	35.02	4.7	36,1	-
DOM 10596	L6	34.34	4.73	36,1	-
DOM 10597	L3.8	47.51	4.04	OUTSIDE	-
DOM 10598	L6	28.08	4.65	36,1	-
DOM 10599	L6	27.18	4.59	36,1	-
DOM 10600	H6	31.41	5.07	36,1	-
DOM 10601	H6	26.15	5	36,1	-
DOM 10602	**LL6**	**16.35**	**4.78**	**36,1**	**L6**
DOM 10603	**LL6**	**13.0**	**4.6**	**36,1**	**L6**
DOM 10604	**LL6**	**30.07**	**4.64**	**36,1**	**L6**
DOM 10605	**H6**	**23.75**	**4.69**	**36,1**	**L6**
DOM 10606	**LL6**	**24.95**	**4.59**	**36,1**	**L6**
DOM 10607	**LL5**	**27.11**	**4.65**	**36,1**	**L5**
DOM 10608	**LL6**	**31.37**	**4.6**	**36,1**	**L6**
DOM 10609	**H5**	**31.83**	**4.79**	**36,1**	**L5**
DOM 10610	H6	43.048	5.17	37,1	-
DOM 10611	L5	50.233	4.58	37,1	-
DOM 10612	**LL6**	**43.586**	**4.53**	**37,1**	**L6**
DOM 10613	**LL6**	**48.509**	**4.64**	**37,1**	**L6**
DOM 10614	**L5**	**64.168**	**5**	**37,1**	**H5**
DOM 10615	**L6**	**66.146**	**5.06**	**37,1**	**H6**
DOM 10616	**LL6**	**35.875**	**4.55**	**37,1**	**L6**
DOM 10617	**LL6**	**86.185**	**4.55**	**37,1**	**L6**
DOM 10618	**LL6**	**48.395**	**4.61**	**37,1**	**L6**
DOM 10619	**LL6**	**40.135**	**4.6**	**37,1**	**L6**
DOM 10620	**LL6**	**36.231**	**4.64**	**37,1**	**L6**
DOM 10621	LL3.6	45.865	3.96	37,2	-
DOM 10622	**LL5**	**29.266**	**4.59**	**37,1**	**L5**
DOM 10623	**L5**	**30.01**	**5.08**	**37,1**	**H5**
DOM 10624	**LL5**	**40.554**	**4.65**	**37,1**	**L5**
DOM 10625	**LL6**	**28.786**	**4.73**	**37,1**	**L6**
DOM 10626	**LL5**	**20.79**	**4.69**	**37,1**	**L5**
DOM 10627	**LL6**	**31.841**	**4.58**	**37,1**	**L6**
DOM 10628	**LL6**	**41.044**	**4.8**	**37,1**	**L6**
DOM 10629	**LL6**	**38.009**	**4.66**	**37,1**	**L6**
DOM 10630	**LL6**	**17.26**	**4.52**	**36,1**	**L6**
DOM 10631	H5	12.74	5.01	36,1	-
DOM 10632	**LL5**	**14.59**	**4.68**	**36,1**	**L5**
DOM 10633	**LL6**	**28.76**	**4.52**	**36,1**	**L6**
DOM 10634	H6	20.003	5.04	36,1	-
DOM 10635	**LL6**	**15.17**	**4.7**	**36,1**	**L6**
DOM 10636	LL6	17.79	3.7	36,1	-
DOM 10637	**LL6**	**26.99**	**4.67**	**36,1**	**L6**
DOM 10638	**LL6**	**15.26**	**4.79**	**36,1**	**L6**
DOM 10639	L5	14.59	4.82	36,1	-
DOM 10640	**LL6**	**35.527**	**4.57**	**37,1**	**L6**
DOM 10641	**LL6**	**36.609**	**4.52**	**37,1**	**L6**
DOM 10642	**LL6**	**27.113**	**4.58**	**37,1**	**L6**
DOM 10643	**LL6**	**36.333**	**4.58**	**37,1**	**L6**
DOM 10644	**LL5**	**20.734**	**4.52**	**37,1**	**L5**

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10645	L6	26.203	4.69	37,1	-
DOM 10646	**LL6**	**40.911**	**4.63**	**37,1**	**L6**
DOM 10647	**LL6**	**34.952**	**4.5**	**37,1**	**L6**
DOM 10648	**LL6**	**32.949**	**4.88**	**37,1**	**L6**
DOM 10649	LL6	39.694	4.48	37,1	-
DOM 10650	**LL6**	**15.327**	**4.75**	**37,1**	**L6**
DOM 10651	**L5**	**14.015**	**5.07**	**37,1**	**H5**
DOM 10652	**LL6**	**28.321**	**4.65**	**37,1**	**L6**
DOM 10653	**LL6**	**29.91**	**4.63**	**37,1**	**L6**
DOM 10654	**LL6**	**35.07**	**4.97**	**37,1**	**L6**
DOM 10655	**LL6**	**52.344**	**4.55**	**37,1**	**L6**
DOM 10656	**LL6**	**52.183**	**4.67**	**37,1**	**L6**
DOM 10657	**LL6**	**68.986**	**4.6**	**37,1**	**L6**
DOM 10658	**LL5**	**24.911**	**4.57**	**37,1**	**L5**
DOM 10659	**LL6**	**34.12**	**4.97**	**37,1**	**L6**
DOM 10664	**LL6**	**14.9**	**4.68**	**37,1**	**L6**
DOM 10667	**LL6**	**10.02**	**4.72**	**37,1**	**L6**
DOM 10670	**LL6**	**26.878**	**4.77**	**37,1**	**L6**
DOM 10671	**LL6**	**15.843**	**4.73**	**37,1**	**L6**
DOM 10672	LL6	15.703	4.47	37,1	-
DOM 10673	**LL6**	**28.186**	**4.73**	**37,1**	**L6**
DOM 10674	**LL6**	**22.606**	**4.59**	**37,1**	**L6**
DOM 10675	LL5	25.149	4.35	37,1	-
DOM 10676	**LL6**	**18.65**	**4.64**	**37,1**	**L6**
DOM 10677	**LL6**	**36.878**	**4.72**	**37,1**	**L6**
DOM 10678	L5	32.603	4.98	37,1	-
DOM 10679	**LL6**	**40.779**	**4.62**	**37,1**	**L6**
DOM 10680	L6	59.58	4.49	40,1	-
DOM 10681	L6	71.09	4.68	40,1	-
DOM 10682	H6	40.44	5.1	40,1	-
DOM 10683	L6	50.69	4.69	40,1	-
DOM 10684	L6	57.79	4.7	40,1	-
DOM 10685	L6	57.44	4.78	40,1	-
DOM 10686	H6	181.6	5.13	40,1	-
DOM 10687	L6	73.92	4.72	40,1	-
DOM 10688	L6	156.11	4.75	40,1	-
DOM 10689	L6	210.59	4.81	40,1	-
DOM 10693	**LL6**	**19.8**	**4.73**	**37,2**	**L6**
DOM 10694	**LL6**	**15.58**	**4.67**	**37,2**	**L6**
DOM 10696	H6	22.05	5.03	37,2	-
DOM 10697	H6	21.5	5.12	37,2	-
DOM 10698	**LL6**	**17.77**	**4.65**	**37,2**	**L6**
DOM 10699	**LL6**	**11.57**	**4.64**	**37,2**	**L6**
DOM 10700	**LL6**	**41.212**	**4.74**	**37,1**	**L6**
DOM 10701	**LL5**	**69.133**	**4.62**	**37,1**	**L5**
DOM 10702	**LL6**	**53.991**	**4.62**	**37,1**	**L6**
DOM 10703	**LL6**	**66.474**	**4.75**	**37,1**	**L6**
DOM 10704	**LL6**	**65.382**	**4.71**	**37,1**	**L6**
DOM 10705	**LL6**	**80.36**	**4.58**	**37,1**	**L6**
DOM 10706	**LL6**	**47.678**	**4.49**	**37,1**	**L6**
DOM 10707	L5	35.972	4.96	37,1	-

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10708	**LL6**	**31.93**	**4.49**	**37,1**	**L6**
DOM 10709	LL6	49.729	4.41	37,1	-
DOM 10710	**LL6**	**21.79**	**4.58**	**37,1**	**L6**
DOM 10711	**LL6**	**34.34**	**4.59**	**37,1**	**L6**
DOM 10712	**LL6**	**26.19**	**4.68**	**37,1**	**L6**
DOM 10713	**LL6**	**33.18**	**4.52**	**37,1**	**L6**
DOM 10714	L6	23.42	4.97	37,1	-
DOM 10715	**LL6**	**29.37**	**4.62**	**37,1**	**L6**
DOM 10716	**LL6**	**27.83**	**4.69**	**37,1**	**L6**
DOM 10717	L6	42.07	4.99	37,1	-
DOM 10718	**LL6**	**34.05**	**4.71**	**37,1**	**L6**
DOM 10719	**LL6**	**31.31**	**4.62**	**37,1**	**L6**
DOM 10720	**LL5**	**25.95**	**4.72**	**37,2**	**L5**
DOM 10721	L6	18.36	4.62	37,2	-
DOM 10722	**H6**	**23.03**	**4.78**	**37,2**	**L6**
DOM 10723	LL6	24.83	4.47	37,2	-
DOM 10724	**LL6**	**24.97**	**4.59**	**37,2**	**L6**
DOM 10725	**LL6**	**27.46**	**4.69**	**37,2**	**L6**
DOM 10726	**LL6**	**13.14**	**4.7**	**37,2**	**L6**
DOM 10727	**LL6**	**15.56**	**4.63**	**37,2**	**L6**
DOM 10728	**H6**	**16.79**	**4.75**	**37,2**	**L6**
DOM 10729	**LL6**	**33.08**	**4.74**	**37,2**	**L6**
DOM 10730	**LL6**	**147.679**	**4.59**	**37,2**	**L6**
DOM 10731	LL6	100.865	4.43	37,2	-
DOM 10732	LL6	170.611	3.85	37,2	-
DOM 10733	**LL6**	**282.2**	**4.67**	**37,2**	**L6**
DOM 10734	L5	152.179	4.54	37,2	-
DOM 10735	**LL6**	**62.89**	**4.65**	**37,2**	**L6**
DOM 10736	**LL6**	**86.65**	**4.73**	**37,2**	**L6**
DOM 10737	**H6**	**51.92**	**4.56**	**37,2**	**L6**
DOM 10738	**LL6**	**41.64**	**4.71**	**37,2**	**L6**
DOM 10739	**LL6**	**46.38**	**4.7**	**37,2**	**L6**
DOM 10740	**L6**	**23.41**	**5.13**	**37,1**	**H6**
DOM 10741	L6	35.97	4.87	37,2	-
DOM 10742	L6	21.93	4.68	37,1	-
DOM 10743	**L6**	**32.22**	**5.09**	**37,1**	**H6**
DOM 10744	LL6	22.11	4.39	37,1	-
DOM 10745	**LL6**	**32.38**	**4.72**	**37,1**	**L6**
DOM 10746	**LL5**	**41.54**	**4.62**	**37,1**	**L6**
DOM 10747	**LL6**	**23.76**	**4.67**	**37,1**	**L6**
DOM 10748	**LL6**	**20.48**	**4.56**	**37,1**	**L6**
DOM 10749	**LL6**	**22.31**	**4.61**	**37,1**	**L6**
DOM 10750	L5	12.25	4.59	37,2	-
DOM 10752	L6	20.7	4.58	37,2	-
DOM 10754	**L5**	**38.0**	**5.23**	**37,2**	**H5**
DOM 10755	**LL5**	**37.62**	**4.67**	**37,2**	**L5**
DOM 10756	**LL5**	**36.36**	**4.58**	**37,2**	**L5**
DOM 10757	L5	11.4	4.58	37,2	-
DOM 10758	**LL6**	**28.41**	**4.65**	**37,2**	**L6**
DOM 10759	**LL6**	**18.65**	**4.62**	**37,2**	**L6**
DOM 10760	**LL6**	**70.08**	**4.68**	**37,1**	**L6**

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10761	**LL6**	**49.28**	**4.62**	**37,1**	**L6**
DOM 10762	**LL6**	**56.25**	**4.68**	**37,1**	**L6**
DOM 10763	**LL6**	**44.88**	**4.77**	**37,1**	**L6**
DOM 10764	**LL6**	**45.7**	**4.72**	**37,1**	**L6**
DOM 10765	LL5	39.4	4.66	37,1	-
DOM 10766	LL6	26.59	4.45	37,1	-
DOM 10767	**LL6**	**47.69**	**4.64**	**37,1**	**L6**
DOM 10768	**LL5**	**27.29**	**4.72**	**37,1**	**L5**
DOM 10769	**LL6**	**47.65**	**4.68**	**37,1**	**L6**
DOM 10770	LL6	218.04	4.47	37,1	-
DOM 10771	**LL6**	**146.7**	**4.8**	**37,1**	**L6**
DOM 10772	**LL5**	**127.42**	**4.62**	**37,1**	**L5**
DOM 10773	**LL6**	**76.77**	**4.61**	**37,1**	**L6**
DOM 10774	**LL6**	**87.3**	**4.77**	**37,1**	**L6**
DOM 10775	**LL6**	**77.88**	**4.67**	**37,1**	**L6**
DOM 10776	**LL5**	**195.51**	**4.49**	**37,1**	**L5**
DOM 10777	L6	82.52	4.57	37,1	-
DOM 10778	LL6	29.94	4.44	37,1	-
DOM 10779	**LL6**	**29.7**	**4.86**	**37,1**	**L6**
DOM 10780	**LL6**	**57.44**	**4.64**	**37,1**	**L6**
DOM 10781	**LL5**	**49.97**	**4.51**	**37,1**	**L5**
DOM 10782	**LL6**	**59.38**	**4.65**	**37,1**	**L6**
DOM 10783	LL6	101.29	4.41	37,1	-
DOM 10784	L6	72.94	4.61	37,1	-
DOM 10785	**LL6**	**34.07**	**4.6**	**37,1**	**L6**
DOM 10786	**LL6**	**26.01**	**4.65**	**37,1**	**L6**
DOM 10787	**LL6**	**30.98**	**4.52**	**37,1**	**L6**
DOM 10788	**L5**	**24.65**	**5.01**	**37,1**	**H5**
DOM 10789	**LL6**	**23.14**	**4.57**	**37,1**	**L6**
DOM 10790	**LL6**	**23.134**	**4.54**	**37,1**	**L6**
DOM 10791	**LL6**	**42.702**	**4.51**	**37,1**	**L6**
DOM 10792	**LL6**	**38.343**	**4.65**	**37,1**	**L6**
DOM 10793	**LL6**	**37.077**	**4.56**	**37,1**	**L6**
DOM 10794	**LL6**	**18.806**	**4.58**	**37,1**	**L6**
DOM 10795	**L5**	**14.237**	**5.22**	**37,1**	**H5**
DOM 10796	**LL6**	**25.608**	**4.63**	**37,1**	**L6**
DOM 10797	L6	25.794	4.65	37,1	-
DOM 10798	**LL6**	**36.149**	**4.61**	**37,1**	**L6**
DOM 10799	**LL6**	**25.949**	**4.67**	**37,1**	**L6**
DOM 10800	**LL5**	**125.29**	**4.5**	**37,1**	**L5**
DOM 10802	**LL5**	**203.713**	**4.55**	**37,1**	**L5**
DOM 10803	**LL6**	**75.53**	**4.65**	**37,1**	**L6**
DOM 10804	**LL6**	**87.602**	**4.62**	**37,1**	**L6**
DOM 10805	LL6	66.679	4.46	37,1	-
DOM 10806	**LL5**	**65.523**	**4.53**	**37,1**	**L5**
DOM 10808	**LL6**	**51.75**	**4.57**	**37,1**	**L6**
DOM 10809	**LL6**	**65.814**	**4.63**	**37,1**	**L6**
DOM 10810	**LL6**	**50.73**	**4.5**	**36,1**	**L6**
DOM 10811	L6	48.75	4.56	36,1	-
DOM 10812	**L5**	**33.93**	**5.18**	**36,1**	**H5**
DOM 10813	**LL6**	**36.08**	**4.64**	**36,1**	**L6**

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10814	**LL6**	**23.47**	**4.59**	**36,1**	**L6**
DOM 10815	**LL6**	**27.81**	**4.64**	**36,1**	**L6**
DOM 10816	L6	22.54	4.59	36,1	-
DOM 10817	**LL6**	**18.06**	**4.74**	**36,1**	**L6**
DOM 10818	**L5**	**31.64**	**4.37**	**36,1**	**LL5**
DOM 10819	LL6	25.91	4.48	36,1	-
DOM 10820	L6	50.645	4.56	37,1	-
DOM 10821	**LL6**	**41.468**	**4.68**	**37,1**	**L6**
DOM 10822	**LL6**	**40.619**	**4.65**	**37,1**	**L6**
DOM 10823	L5	40.092	4.64	37,1	-
DOM 10824	**LL5**	**37.815**	**4.59**	**37,1**	**L5**
DOM 10825	LL6	45.628	4.47	37,1	-
DOM 10826	**LL6**	**56.381**	**4.63**	**37,1**	**L6**
DOM 10827	**LL6**	**58.207**	**4.53**	**37,1**	**L6**
DOM 10828	**LL6**	**61.22**	**4.71**	**37,1**	**L6**
DOM 10829	**LL6**	**68.601**	**4.71**	**37,1**	**L6**
DOM 10830	**LL5**	**62.597**	**4.59**	**37,1**	**L5**
DOM 10831	**LL6**	**54.553**	**4.53**	**37,1**	**L6**
DOM 10832	**LL6**	**50.319**	**4.59**	**37,1**	**L6**
DOM 10833	**L5**	**63.198**	**5.03**	**37,1**	**H5**
DOM 10834	**LL6**	**75.399**	**4.71**	**37,1**	**L6**
DOM 10835	**LL6**	**39.678**	**4.64**	**37,1**	**L6**
DOM 10836	**LL6**	**30.684**	**4.68**	**37,1**	**L6**
DOM 10837	HOWARDITE	471.38	3.26	34,2	-
DOM 10838	HOWARDITE	31.89	2.97	34,2	-
DOM 10839	HOWARDITE	58.65	3.16	34,2	-
DOM 10840	**LL6**	**118.596**	**4.64**	**37,1**	**L6**
DOM 10841	**LL6**	**90.016**	**4.67**	**37,1**	**L6**
DOM 10842	**L5**	**48.363**	**5.04**	**37,1**	**H5**
DOM 10843	**LL5**	**84.033**	**4.55**	**37,1**	**L5**
DOM 10844	**LL6**	**73.504**	**4.7**	**37,1**	**L6**
DOM 10845	**LL6**	**50.8**	**4.73**	**37,1**	**L6**
DOM 10846	**LL6**	**67.596**	**4.73**	**37,1**	**L6**
DOM 10847	CO3	97.197	4.76	37,1	-
DOM 10848	H (IMPACT MELT)	104.589	5.33	37,1	-
DOM 10849	H6	240.5	5.19	37,1	-
DOM 10850	**LL6**	**75.128**	**4.75**	**37,1**	**L6**
DOM 10851	**LL6**	**42.482**	**4.62**	**37,1**	**L6**
DOM 10852	**LL6**	**53.927**	**4.53**	**37,1**	**L6**
DOM 10853	**LL6**	**27.623**	**4.79**	**37,1**	**L6**
DOM 10854	L6	24.205	4.97	37,1	-
DOM 10855	**LL5**	**23.146**	**4.63**	**37,1**	**L5**
DOM 10856	**LL6**	**35.524**	**4.66**	**37,1**	**L6**
DOM 10857	**LL6**	**20.184**	**4.72**	**37,1**	**L6**
DOM 10858	**LL6**	**22.125**	**4.88**	**37,1**	**L6**
DOM 10859	**LL6**	**17.71**	**4.73**	**37,1**	**L6**
DOM 10860	**LL6**	**34.682**	**4.68**	**37,1**	**L6**
DOM 10861	**LL6**	**25.895**	**4.6**	**37,1**	**L6**
DOM 10862	**LL6**	**19.062**	**4.81**	**37,1**	**L6**
DOM 10863	L6	35.978	4.87	37,1	-
DOM 10864	**LL6**	**28.613**	**4.61**	**37,1**	**L6**

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
DOM 10865	**LL6**	**35.694**	**4.68**	**37,1**	**L6**
DOM 10866	**L6**	**19.823**	**5.03**	**37,1**	**H6**
DOM 10867	**LL6**	**18.999**	**4.7**	**37,1**	**L6**
DOM 10868	**L6**	**32.898**	**5.19**	**37,1**	**H6**
DOM 10869	**LL6**	**23.084**	**4.63**	**37,1**	**L6**
DOM 10870	**LL6**	**18.78**	**4.82**	**37,1**	**L6**
DOM 10871	**LL6**	**12.46**	**4.82**	**37,1**	**L6**
DOM 10872	**LL6**	**11.89**	**4.69**	**37,1**	**L6**
DOM 10873	**L5**	**14.06**	**5.17**	**37,1**	**H5**
DOM 10874	**LL6**	**33.68**	**4.7**	**37,1**	**L6**
DOM 10875	**LL6**	**20.84**	**4.66**	**37,1**	**L6**
DOM 10876	**LL6**	**16.85**	**4.76**	**37,1**	**L6**
DOM 10878	**LL6**	**26.7**	**4.69**	**37,1**	**L6**
DOM 10879	**LL6**	**17.77**	**4.67**	**37,1**	**L6**
DOM 10881	**LL6**	**11.65**	**4.81**	**37,1**	**L6**
DOM 10882	**LL6**	**15.58**	**4.8**	**37,1**	**L6**
DOM 10883	**LL6**	**16.19**	**4.77**	**37,1**	**L6**
DOM 10885	**LL6**	**10.86**	**4.71**	**37,1**	**L6**
DOM 10887	**LL6**	**10.02**	**4.68**	**37,1**	**L6**
DOM 10888	**LL6**	**10.39**	**4.69**	**37,1**	**L6**
DOM 10889	**LL5**	**21.51**	**4.69**	**37,1**	**L5**
DOM 10891	H5	12.31	5.06	37,2	-
DOM 10892	**L6**	**12.5**	**5.05**	**37,2**	**H6**
DOM 10893	L6	15.2	4.61	37,2	-
DOM 10894	H6	15.51	4.98	37,2	-
DOM 10895	**H6**	**13.1**	**4.9**	**37,2**	**L6**
DOM 10896	**H6**	**10.36**	**4.44**	**37,2**	**L6**
DOM 10897	**LL6**	**15.11**	**4.63**	**37,2**	**L6**
DOM 10898	**L5**	**10.39**	**5.13**	**37,2**	**H5**
DOM 10899	**L6**	**18.13**	**5.06**	**37,2**	**H6**
DOM 10900	CO3	26.092	5.13	34,2	-
DOM 10901	**LL5**	**19.012**	**4.69**	**37,1**	**L5**

Table of magnetic susceptibility data and reclassification of PAT 10 EOCs (bolded entries involve reclassification)

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
PAT 10200	**LL5**	**5908.4**	**4.77**	**36,1**	**L5**
PAT 10201	**LL5**	**1674.1**	**4.72**	**36,1**	**L5**
PAT 10202	**LL5**	**343.4**	**4.82**	**36,1**	**L5**
PAT 10203	L5	538.4	4.54	39,1	-
PAT 10204	LL5	103.61	3.92	36,1	-
PAT 10205	**L5**	**15.93**	**5.31**	**36,1**	**H5**
PAT 10206	L5	19.67	4.85	36,1	-
PAT 10207	**L6**	**6.31**	**5.09**	**36,1**	**H6**
PAT 10208	**L5**	**13.39**	**5.07**	**36,1**	**H5**
PAT 10209	**LL5**	**8.29**	**4.81**	**36,1**	**L5**
PAT 10210	**LL6**	**5.63**	**4.66**	**36,1**	**L6**
PAT 10211	H5	6.835	5.11	36,1	-
PAT 10212	H6	2.439	5.15	36,1	-
PAT 10213	H6	5.068	5.09	36,1	-
PAT 10214	H6	14.348	5.05	36,1	-
PAT 10215	**L6**	**9.116**	**5.13**	**36,1**	**H6**
PAT 10216	**LL6**	**13.605**	**4.67**	**36,1**	**L6**
PAT 10217	L6	9.018	4.58	36,1	-
PAT 10218	L6	5.577	4.88	36,1	-
PAT 10219	**LL6**	**2.512**	**4.57**	**36,1**	**L6**
PAT 10220	**L5**	**1.78**	**5.16**	**36,1**	**H5**
PAT 10221	**L6**	**2.73**	**5.06**	**36,1**	**H6**
PAT 10222	L6	3.89	4.58	36,1	-
PAT 10223	**L5**	**2.87**	**5.11**	**36,1**	**H5**
PAT 10224	**L5**	**2.71**	**5.09**	**36,1**	**H5**
PAT 10225	H6	4.32	5.08	36,1	-
PAT 10226	**L5**	**5.58**	**5.23**	**36,1**	**H5**
PAT 10227	H6	2.18	5.01	36,1	-
PAT 10228	**LL6**	**3.3**	**4.82**	**36,1**	**L6**
PAT 10229	**H6**	**1.59**	**4.92**	**36,1**	**L6**
PAT 10230	L6	7.979	4.54	36,1	-
PAT 10231	H6	9.245	5.02	36,1	-
PAT 10232	**H6**	**18.363**	**4.9**	**36,1**	**L6**
PAT 10233	**L6**	**7.397**	**5.07**	**36,1**	**H6**
PAT 10234	L6	14.384	4.72	36,1	-
PAT 10235	L5	5.946	4.61	36,1	-
PAT 10236	L6	6.1	5.01	36,1	-
PAT 10237	H6	3.796	5.1	36,1	-
PAT 10238	H6	3.222	5.09	36,1	-
PAT 10239	**H5**	**3.097**	**4.88**	**36,1**	**L6**
PAT 10240	L6	11.438	4.81	36,1	-
PAT 10241	H6	4.025	5.13	36,1	-
PAT 10242	**H5**	**4.405**	**4.88**	**36,1**	**L5**
PAT 10243	H6	3.993	5.05	36,1	-
PAT 10244	LL6	2.428	3.43	36,1	-
PAT 10245	**L6**	**1.96**	**5.04**	**36,1**	**H6**
PAT 10246	**LL6**	**1.134**	**4.9**	**36,1**	**L6**
PAT 10247	**H6**	**1.766**	**4.85**	**36,1**	**L6**
PAT 10248	**L6**	**2.403**	**4.44**	**36,1**	**LL6**
PAT 10249	**H6**	**2.735**	**4.14**	**36,1**	**LL6**
PAT 10250	**L6**	**2.402**	**5.21**	**36,1**	**H6**
PAT 10251	**L6**	**1.368**	**5.04**	**36,1**	**H6**

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
PAT 10252	L6	7.188	4.99	36,1	-
PAT 10253	**L6**	**8.379**	**5.08**	**36,1**	**H6**
PAT 10254	**L5**	**2.67**	**5.14**	**36,1**	**H5**
PAT 10255	L6	2.827	4.89	36,1	-
PAT 10256	**H6**	**1.823**	**4.63**	**36,1**	**L6**
PAT 10257	L6	19.818	4.97	36,1	-
PAT 10258	**L5**	**2.011**	**5.16**	**36,1**	**H5**
PAT 10259	H6	6.273	5.14	36,1	-
PAT 10260	**L6**	**2.773**	**5.11**	**36,1**	**H6**
PAT 10261	**H6**	**1.615**	**4.77**	**36,1**	**L6**
PAT 10262	**L5**	**1.606**	**5.16**	**36,1**	**H5**
PAT 10263	**L6**	**8.538**	**5.05**	**36,1**	**H6**
PAT 10264	**L5**	**1.222**	**5.09**	**36,1**	**H5**
PAT 10265	**H6**	**6.232**	**4.22**	**36,1**	**LL6**
PAT 10266	**H6**	**3.343**	**4.88**	**36,1**	**L6**
PAT 10267	**L5**	**1.336**	**5.13**	**36,1**	**H5**
PAT 10268	L6	3.504	4.77	36,1	-
PAT 10269	L6	1.845	4.96	36,1	-
PAT 10270	L5	4.08	4.95	36,1	-
PAT 10271	**L5**	**1.97**	**4.3**	**36,1**	**LL5**
PAT 10272	H6	3.98	5.04	36,1	-
PAT 10273	**H6**	**2.93**	**4.98**	**36,1**	**L6**
PAT 10274	H6	2.44	5.19	36,1	-
PAT 10275	L6	4.45	4.88	36,1	-
PAT 10276	L6	3.03	4.73	36,1	-
PAT 10277	H6	1.1	5.03	36,1	-
PAT 10278	**H6**	**1.96**	**4.7**	**36,1**	**L6**
PAT 10279	**L6**	**2.84**	**4.17**	**36,1**	**LL6**
PAT 10280	L6	1.97	4.61	36,1	-
PAT 10281	**H6**	**3.78**	**4.83**	**36,1**	**L6**
PAT 10282	**L6**	**3.97**	**4.27**	**36,1**	**LL6**
PAT 10283	H5	5.07	5	36,1	-
PAT 10284	**H6**	**2.52**	**4.96**	**36,1**	**L6**
PAT 10285	L6	3.14	4.57	36,1	-
PAT 10286	**H5**	**5.96**	**4.46**	**36,1**	**L5**
PAT 10287	H6	1.77	5.08	36,1	-
PAT 10288	**H5**	**10.6**	**4.93**	**36,1**	**L5**
PAT 10289	**H6**	**11.6**	**4.74**	**36,1**	**L6**
PAT 10290	L6	4.27	4.91	36,1	-
PAT 10291	**L6**	**2.14**	**5.29**	**36,1**	**H6**
PAT 10292	L6	15.69	4.7	36,1	-
PAT 10293	**L6**	**2.07**	**4.33**	**36,1**	**LL6**
PAT 10294	L6	2.35	4.63	36,1	-
PAT 10295	**L6**	**4.05**	**3.85**	**36,1**	**LL6**
PAT 10296	L5	2.65	4.67	36,1	-
PAT 10297	**H6**	**4.08**	**4.89**	**36,1**	**L6**
PAT 10298	**L6**	**1.49**	**4.27**	**36,1**	**LL6**
PAT 10299	**H5**	**5.16**	**4.46**	**36,1**	**L5**
PAT 10300	L6	2.513	4.81	36,1	-
PAT 10301	H5	2.416	5.1	36,1	-
PAT 10302	**H6**	**1.745**	**4.96**	**36,1**	**L6**
PAT 10303	H6	2.403	5.11	36,1	-
PAT 10304	H6	1.575	5.01	36,1	-
PAT 10305	L6	1.396	4.75	36,1	-

Generic	Original Classification	Original Weight	Magnetic Susceptibility	Newsletter	Updated Classification
PAT 10306	**H6**	**2.952**	**4.61**	**36,1**	**L6**
PAT 10307	L6	1.323	4.85	36,1	-
PAT 10308	L5	1.145	5.24	36,1	H5
PAT 10309	**H6**	**2.082**	**4.97**	**36,1**	**L6**
PAT 10310	**L6**	**15.99**	**5.03**	**36,1**	**H6**
PAT 10311	**LL6**	**7.7**	**4.83**	**39,1**	**L6**
PAT 10312	**LL5**	**9.33**	**4.79**	**36,1**	**L5**
PAT 10313	L6	9.41	4.69	36,1	-
PAT 10314	**LL6**	**7.27**	**4.73**	**36,1**	**L6**
PAT 10315	L6	6.81	4.87	36,1	-
PAT 10316	L6	5.45	4.96	36,1	-
PAT 10317	H6	6.55	5.2	36,1	-
PAT 10318	L5	4.76	4.49	36,1	-
PAT 10319	L6	5.53	4.62	36,1	-
PAT 10320	L5	1.062	4.95	36,1	-
PAT 10321	**L6**	**1.37**	**5.02**	**36,1**	**H6**
PAT 10322	L6	2.454	4.95	36,1	-
PAT 10323	H6	4.195	5.07	36,1	-
PAT 10324	L6	3.294	4.69	36,1	-
PAT 10325	L6	1.356	4.97	36,1	-

Sample Request Guidelines

The Meteorite Working Group (MWG), is a peer-review committee which meets twice a year to guide the collection, curation, allocation, and distribution of the U.S. collection of Antarctic meteorites. The deadline for submitting a request is 2 weeks prior to the scheduled meeting.

Requests that are received by the MWG secretary by August 29, 2019 deadline will be reviewed at the MWG meeting on Sept. 12-13, 2019 in Washington, D.C. Requests that are received after the deadline may be delayed for review until MWG meets again in the Spring of 2020. Please submit your requests on time. Questions pertaining to sample requests can be directed to the MWG secretary by e-mail, or phone.

Requests for samples are welcomed from research scientists of all countries, regardless of their current state of funding for meteorite studies. Graduate student requests should have a supervising scientist listed to confirm access to facilities for analysis. All sample requests will be reviewed in a timely manner. Sample requests that do not meet the curatorial allocation guidelines will be reviewed by the Meteorite Working Group (MWG). Issuance of samples does not imply a commitment by any agency to fund the proposed research. Requests for financial support must be submitted separately to an appropriate funding agency. As a matter of policy, U.S. Antarctic meteorites are the property of the U.S. government, and all allocations are subject to recall.

Samples can be requested from any meteorite that has been made available through announcement in any issue of the ***Antarctic Meteorite Newsletter*** (beginning with 1(1) in June, 1978). Many of the meteorites have also been described in five *Smithsonian Contributions to the Earth Sciences*: Nos. 23, 24, 26, 28, and 30. Tables containing all classified meteorites as of August 2006 have been published in the Meteoritical Bulletins and *Meteoritics* and *Meteoritics and Planetary Science.*

They are also available online at:

https://meteoritical.org/publications/the-meteoritical-bulletin

The most current listing is found online at:

http://curator.jsc.nasa.gov/antmet/us_clctn.cfm

All sample requests should be made electronically using the form at:

http://curator.jsc.nasa.gov/antmet/requests.cfm

The purpose of the sample request form is to obtain all information MWG needs prior to their deliberations to make an informed decision on the request. Please use this form if possible.

The preferred method of request transmittal is via e-mail. Please send requests and attachments to:

JSC-ARES-MeteoriteRequest@nasa.gov

Type **MWG Request** in the e-mail subject line. Please note that the form has signature blocks. The signature blocks should only be used if the form is sent via Fax or mail.

Each request should accurately refer to meteorite samples by their respective identification numbers and should provide detailed scientific justification for proposed research. Specific requirements for samples, such as sizes or weights, particular locations (if applicable) within individual specimens, or special handling or shipping procedures should be explained in each request. Some meteorites are small, of rare type, or are considered special because of unusual properties. Therefore, it is very important that all requests specify both the optimum amount of material needed for the study and the minimum amount of material that can be used. Requests for thin sections that will be used in destructive procedures such as ion probe, laser ablation, etch, or repolishing must be stated explicitly.

Consortium requests should list the members in the consortium. All necessary information should be typed on the electronic form, although informative attachments (reprints of publication that explain rationale, flow diagrams for analyses, etc.) are welcome.

Antarctic Meteorite Laboratory Contact Numbers

Please submit request to**: JSC-ARES-MeteoriteRequest@nasa.gov**

Kevin Righter
Curator
Mail code X12
NASA Johnson Space Center
Houston, Texas 77058
(281) 483-5125
kevin.righter-1@nasa.gov

Cecilia Satterwhite
Lab Manager/MWG Secretary
Mail code X12
NASA Johnson Space Center
Houston, Texas 77058
(281) 483-6776
cecilia.e.satterwhite@nasa.gov

FAX: 281-483-5347

Meteorites On-Line

Several meteorite web sites are available to provide information on meteorites from Antarctica and elsewhere in the world. Some specialize in information on martian meteorites and on possible life on Mars. Here is a general listing of ones we have found. We have not included sites focused on selling meteorites even though some of them have general information. Please contribute information on other sites so we can update the list.

JSC Curator, Antarctic meteorites	http://curator.jsc.nasa.gov/antmet/
JSC Curator, HED Compendium	http://curator.jsc.nasa.gov/antmet/hed/
JSC Curator, Lunar Meteorite Compendium	http://curator.jsc.nasa.gov/antmet/lmc/
JSC Curator, Martian Meteorite Compendium	http://curator.jsc.nasa.gov/antmet/mmc/
ANSMET	http://caslabs.case.edu/ansmet/
Smithsonian Institution	http://mineralsciences.si.edu/
Lunar Planetary Institute	http://www.lpi.usra.edu
NIPR Antarctic meteorites	http://www.nipr.ac.jp/
Meteoritical Bulletin online Database	http://www.lpi.usra.edu/meteor/metbull.php
Museo Nazionale dell'Antartide	http://www.mna.it/collezioni/catalogo-meteoriti-sede-di-siena
BMNH general meteorites	https://www.nhm.ac.uk/our-science/collections/mineralogy-collections.html
UHI planetary science discoveries	http://www.psrd.hawaii.edu/index.html
Meteoritical Society	http://www.meteoriticalsociety.org/
Meteoritics and Planetary Science	https://onlinelibrary.wiley.com/journal/19455100
Meteorite Times Magazine	https://www.meteorite-times.com/
Geochemical Society	http://www.geochemsoc.org
Washington Univ. Lunar Meteorite	http://meteorites.wustl.edu/lunar/moon_meteorites.htm
Washington Univ. "meteor-wrong"	http://meteorites.wustl.edu/meteorwrongs/meteorwrongs.htm
Portland State Univ. Meteorite Lab	http://meteorites.pdx.edu/
Northern Arizona University	https://www.cefns.nau.edu/geology/naml/
Martian Meteorites	http://www.imca.cc/mars/martian-meteorites.htm

Other Websites of Interest

OSIRIS-REx	http://osiris-rex.lpl.arizona.edu/
Mars Exploration	http://mars.jpl.nasa.gov
Rovers	http://marsrovers.jpl.nasa.gov/home/
Near Earth Asteroid Rendezvous	http://near.jhuapl.edu/
Stardust Mission	http://stardust.jpl.nasa.gov
Genesis Mission	http://genesismission.jpl.nasa.gov
ARES	http://ares.jsc.nasa.gov/
Astromaterials Curation	http://curator.jsc.nasa.gov/
Hayabusa2	http://www.hayabusa2.jaxa.jp/en/