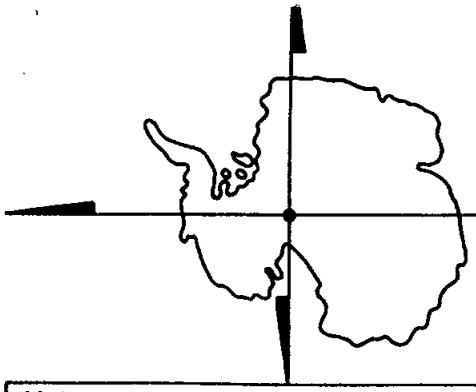

Antarctic Meteorite NEWSLETTER

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

Volume 8, Number 2 August, 1985

Supported by the National Science Foundation, Division of Polar Programs, and compiled at Code SN2, Johnson Space Center, NASA, Houston, Texas 77058

!!!!!!!! SAMPLE REQUEST DEADLINE: SEPTEMBER 20, 1985 (SEE PAGE 2) !!!!!!!!

SAMPLE-REQUEST GUIDELINES

All sample requests should be made in writing to

Secretary, MWG
SN2/Planetary Materials Branch
NASA/Johnson Space Center
Houston, TX 77058 USA.

Questions pertaining to sample requests can be directed in writing to the above address or can be directed by telephone to (713) 483-3274.

Requests for samples are welcomed from research scientists of all countries, regardless of their current state of funding for meteorite studies. All sample requests will be reviewed by the Meteorite Working Group (MWG), a peer-review committee that guides the collection, curation, allocation, and distribution of the U. S. Antarctic meteorites. 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 the appropriate funding agencies. As a matter of policy, U. S. Antarctic meteorites are the property of the National Science Foundation and all allocations are subject to recall.

Each request should refer to meteorite samples by their respective identification numbers and should provide detailed scientific justification for the 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. All necessary information should probably be condensable into a one- or two-page letter, although informative attachments (reprints of publications that explain rationale, flow diagrams for analyses, etc.) are welcome.

Requests that are received by the MWG Secretary before September 20, 1985 will be reviewed at the MWG meeting of September 26-28, 1985, to be held in Washington, DC. Requests that are received after the September 20, 1985 deadline may possibly be delayed for review until the MWG meets again in September or October, 1985. PLEASE SUBMIT YOUR REQUESTS ON TIME.

Samples can be requested from any meteorite that has been made available through anouncement in any issue of the Antarctic Meteorite Newsletter (beginning with 1(1) in June, 1978). Many of the meteorites have also been described in the following catalogs:

Marvin, U. B. and B. Mason (eds.) (1984) Field and Laboratory Investigations of Meteorites from Victoria Land, Antarctica, Smithsonian Contr. Earth Sci. No. 26, Smithsonian Institution Press, 134 pp.

Marvin, U. B. and B. Mason (eds.) (1982) Catalog of Meteorites from Victoria Land, Antarctica, 1978-1980, Smithsonian Contr. Earth Sci. No. 24, Smithsonian Institution Press, 97 pp.

Marvin, U. B. and B. Mason (eds.) (1980) Catalog of Antarctic Meteorites, 1977-1978, Smithsonian Contr. Earth Sci. No. 23, Smithsonian Institution Press, 50 pp.

NEW SMITHSONIAN CATALOG IN WORK

The fourth installment in the Smithsonian Institution's series of Antarctic meteorite catalogs, issued as part of Smithsonian Contributions to the Earth Sciences, is now being prepared for publication. Ursula Marvin and Glenn MacPherson are serving as editors and we can look forward to seeing the catalog in print sometime in 1986.

NEW METEORITES

Pages 4-14 contain preliminary descriptions and classifications of meteorites that were examined since publication of Antarctic Meteorite Newsletter, 8(1) (February, 1985). Each large (> 150-g) specimen (regardless of petrologic type) and most "pebble"-sized (< 150-g) specimens of special petrologic type (i.e., carbonaceous chondrite, unequilibrated ordinary chondrite, achondrite, stony-iron or iron) is represented by a separate description. However, "pebbles" of non-special petrologic type (i.e., equilibrated ordinary chondrite) are listed only as single-line entries in Table 1. Please note, though, that Table 1 includes several chondrite specimens of petrologic type 3.

Each "macroscopic" description summarizes features that were visible to the eye (with, at most, 50X magnification) at the time the meteorite was first examined in the processing laboratory at NASA/JSC. Each "thin section" description represents features that were found in a survey-level examination of a polished thin section that was prepared from a small (usually exterior) chip of the meteorite. Classification is based on microscopic petrography and reconnaissance-level electron-probe microanalyses. The sample number assigned to the preliminary examination section (...,1 or ...,3, etc.) is included as an aid to workers who may later wish to intercompare samples from different locations in the meteorite.

Classification of the pebbles that are listed in Table 1 was performed under the direction of Professor Carleton B. Moore at Arizona State University, Tempe, AZ.

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

Carol Schwarz, Roberta Score, and René Martinez
Planetary Materials Laboratory
(NASA/Johnson Space Center)
Northrop Services, Inc.
Houston, Texas

Dr. Glenn MacPherson
Department of Mineral Sciences
U. S. National Museum of Natural History
Smithsonian Institution
Washington, DC

TABLE 1

ANTARCTIC METEORITES FROM THE 1978 COLLECTION CLASSIFIED BY C. B. MOORE

SAMPLE NUMBER	WEIGHT	CLASSIFICATION	WEATHERING	% FA
ALHA78001	84.5	H-5 CHONDRITE	B	18.6
ALHA78002	11.5	H-6 CHONDRITE	A	19.0
ALHA78005	28.2	H-5 CHONDRITE	B	19.3
ALHA78010	1.3	H-5 CHONDRITE	B	19.4
ALHA78017	2.9	L-3 CHONDRITE	B	3-43
ALHA78018	17.9	H-5 CHONDRITE	B	19.2
ALHA78025	8.3	H-5 CHONDRITE	A	18.9
ALHA78029	4.1	H-4 CHONDRITE	B	19.2
ALHA78033	5.0	H-4 CHONDRITE	B	19.2
ALHA78037	0.5	L-3 CHONDRITE	B	7-38
ALHA78041	117.5	L-3 CHONDRITE	B	0-41
ALHA78049	95.8	H-5 CHONDRITE	B	19.4
ALHA78055	13.7	L-6 CHONDRITE	B	25.5
ALHA78059	9.1	L-6 CHONDRITE	B	21.5
ALHA78063	76.7	LL-6 CHONDRITE	A	29.1
ALHA78065	7.3	H-6 CHONDRITE	B	18.0
ALHA78069	4.4	H-6 CHONDRITE	B	19.1
ALHA78082	24.0	LL-6 CHONDRITE	A	27.7
ALHA78117	4.3	H-5 CHONDRITE	A	18.5
ALHA78119	102.6	L-3 CHONDRITE	A	0-28
ALHA78123	18.4	H-5 CHONDRITE	B	19.3
ALHA78129	128.3	H-5 CHONDRITE	B	19.4
ALHA78136	51.6	H-5 CHONDRTIE	A	19.1
ALHA78138	10.8	LL-3 CHONDRITE	B	0-35
ALHA78140	16.6	H-4 CHONDRITE	B	18.4
ALHA78145	34.4	H-6 CHONDRITE	A	19.6
ALHA78149	23.2	L-3 CHONDRITE	B	18-31
ALHA78154	11.8	H-5 CHONDRITE	B	19.3
ALHA78157	63.4	H-4 CHONDRITE	B	19.0
ALHA78162	33.2	L-3 CHONDRITE	B	2-30
ALHA78163	9.6	H-5 CHONDRITE	B	18.7
ALHA78168	33.6	H-4 CHONDRITE	B	19.2
ALHA78169	22.2	H-6 CHONDRITE	B	19.2
ALHA78170	20.9	H-3 CHONDRITE	B	3-36
ALHA78171	22.5	L-6 CHONDRITE	B	25.4
ALHA78172	29.4	H-4 CHONDRITE	B	19.7
ALHA78173	19.8	H-5 CHONDRITE	B	19.7
ALHA78174	13.5	H-5 CHONDRITE	B	18.2
ALHA78176	8.2	L-3 CHONDRITE	B	8-26
ALHA78178	7.2	H-5 CHONDRITE	B	19.0
ALHA78180	7.9	L-3 CHONDRITE	B	2-33
ALHA78217	8.3	H-5 CHONDRITE	B	18.8
ALHA78219	8.2	H-5 CHONDRITE	B	19.4
ALHA78235	19.2	L-3 CHONDRITE	B	8-28
ALHA78239	16.0	L-3 CHONDRITE	B	1-34
ALHA78253	6.8	H-5 CHONDRITE	B	18.9
ALHA78255	3.2	H-5 CHONDRITE	A	19.4
ALHA78257	2.1	H-5 CHONDRITE	B	19.2
ALHA78259	6.2	H-5 CHONDRITE	A	19.7

Sample No.: ALH84001 Location: Allan Hills
Weight (g): 1930.9 Field No.: 1539
Dimensions (cm): 17 x 9.5 x 6.5
Meteorite Type: Diogenite

Macroscopic Description: Roberta Score

Eighty percent of this rectangular shaped achondrite is covered with dull black fusion crust. Remnants of flow marks are visible on two exterior surfaces. Areas not covered by fusion crust have a greenish-gray color and a blocky texture. Cleavage planes are obvious on some large crystal faces and the stone has a shocked appearance.

Small areas of oxidation are present in the interior of ALH84001. Abundant small black grains (ilmenite?) are scattered throughout the stone. Small fractures are numerous.

Thin Section (,3) Description: Glenn MacPherson

The meteorite consists of orthopyroxene (En70 Fs27 Wo3), as crystals up to 5 mm in length, that forms a polygonal-granular mosaic. Despite the fact that pyroxene compositions contain 1.5% CaO in bulk, no exsolution lamellae were observed. Veins of intensely granulated pyroxene cross cut the section. In addition to pyroxene, other phases include minor chromite and irregular patches of a featureless and isotropic maskelynite (An35-39 Ab57-61 Or43-4).

The section does not show Fe-oxide staining but does contain patches of brown, Fe-rich carbonate, (Fe29 Mg60 Ca11)C03.

Although this diogenite contains granulated areas, it does not appear to be a breccia.

Sample No.: ALH84004 Location: Allan Hills
Weight (g): 9000.0 Field No.: 2505
Dimensions (cm): 21 x 16 x 16
Meteorite Type: H4 Chondrite

Macroscopic Description: Carol Schwarz

Slightly weathered fusion crust covers this large specimen. Deep regmaglypts are abundant as are deep crevasses that are filled in with fusion crust. Some salt deposit has formed. The interior is red-brown to dark grayish with some areas of light gray matrix visible.

Thin Section (,4) Description: Glenn MacPherson

This chondrite is heavily stained by iron oxide, indicating that it has experienced a moderate degree of terrestrial weathering.

Well-defined chondrules and clasts, up to 3.5 mm in diameter, are very closely packed. No isotropic glass is preserved anywhere, but devitrified glass is common. Olivine is uniformly Fa 17-18 in composition. The pyroxene is commonly monoclinic, and is Fs 16-19. Coarse kamacite, troilite, and taenite are abundant, with the metal phases considerably in excess of the sulfide. Chromite is accessory.

In one portion of the thin section there is abundant black interstitial material that consists of veins, stringers, patches, and tiny globules of metal and sulfide in a microcrystalline intergrowth. These are probably shock veins. The silicates in this region show some evidence of brecciation and, locally, granulation.

This is an H4 chondrite.

Sample No.: ALH84006
Weight (g): 16000.0
Dimensions (cm): 32 x 22 x 18
Meteorite Type: H4-5 Chondrite

Location: Allan Hills
Field No.: 2886

Macroscopic Description: Carol Schwarz

Fusion crust with reddish oxidation haloes completely covers this meteorite. Large deep fractures occur throughout and white salt deposit is present in patches.

The interior is mostly weathered with small areas of grayish matrix still present.

Thin Section (,3) Description: Glenn MacPherson

A pervasive iron-oxide staining indicates that this chondrite is moderately weathered.

ALH84006 consists of highly fragmented and broken clasts, chondrules and crystals, none larger than approximately 1 mm in diameter. Chondrules are sharp, with well-preserved microcrystalline structure, but very few are round or unbroken. Olivine is mostly uniform in composition, Fa 18, but a few grains as iron-rich as Fa 23 were found. Pyroxene is commonly but not always monoclinic and is Fs 17-18 in composition. Kamacite, troilite, and chromite are abundant, with minor taenite. Metal is much more abundant than the sulfide. Poorly crystalline and non-stoichiometric plagioclase was found, about An 13-14, but no analyses free of iron or magnesium could be obtained.

This meteorite differs from ALH84004 in having finer-grained metal and sulfide phases and lacking the shock veins of the latter.

This is an H4/5 chondrite.

Sample No.: ALH84007
Weight (g): 705.6
Dimensions (cm): 11 x 7 x 55
Meteorite Type: Aubrite

Location: Allan Hills
Field No.: 2827

Macroscopic Description: Carol Schwarz

Thin black to yellowish fusion crust(?) occurs in small areas on some surfaces of this brecciated specimen. Large white clasts, up to several centimeters in longest dimension, smaller white fragments and small dark, roundish inclusions (metal?) make up the interior of ALH84007. Some oxidation was noted.

Thin Section (,3) Description: Glenn MacPherson

ALH84007 is virtually identical to ALH84008 and the two may be paired. Localized staining by iron oxides as haloes around metal grains, indicates mild terrestrial weathering.

Large (up to approximately 4 mm) intensely shocked enstatite crystals, (FeO is less than approximately 0.2%) are mostly monoclinic, but orthorhombic ones are present as well. The dusty brown matrix consists of granulated enstatite plus minor forsterite (FeO less than about 0.1%) and diopside (Wo 41-44 En 56-59). Diopside occurs both as independent grains in the matrix and also as rounded inclusions within enstatite. Sparse, very large (over 3 mm) kamacite grains are present, invariably associated with a complex assemblage of phases that includes (at least) troilite, schreibersite, daubreelite and alabandite.

This is an aubrite.

Sample No.: ALH84008 Location: Allan Hills
Weight (g): 301.6 Field No.: 2884
Dimensions (cm): 8 x 8 x 6
Meteorite Type: Aubrite

Macroscopic Description: Carol Schwarz

This aubrite fragment has a small amount of black fusion crust and more of the yellowish fusion crust(?) remaining on its surface. The specimen is a complex breccia with large clean white clasts, smaller light clasts with dark inclusions, dark blebs (possibly metal), dark clasts, and areas of dark material with light clasts.

Thin Section (,3) Description: Glenn MacPherson

See ALH84007 for description.

Sample No.: ALH84011 Location: Allan Hills
Weight (g): 138.2 Field No.: 1459
Dimensions (cm): 7.5 x 5 x 4
Meteorite Type: Aubrite

Macroscopic Description: Carol Schwarz

This fragment is a complex breccia consisting of large white clasts; the largest is 2 cm in diameter. Other clasts range from 1 mm and greater. The "N" face shows a contact between dark glassy(?) matrix with white clasts and a white brecciated area of white clasts with small dark inclusions, sometimes rusty. There are also several dark inclusions up to 5 mm in diameter. A small amount of yellowish fusion crust(?) is present on one exterior surface.

The thin section chip has both the light and dark areas.

Thin Section (,4) Description: Glenn MacPherson

This very coarse-grained aubrite shows only local effects of weathering in the vicinity of metal grains. Enstatite (FeO <0.1%) occurs as intensely strained crystals up to 5 mm in length that are set in a highly brecciated and granulated matrix. The matrix is composed of enstatite plus an assemblage of troilite, kamacite, schreibersite, daubreelite, and alabandite. Rare veins of presumably shock-produced brown, isotropic glass occur and exhibit a swirled texture with numerous tiny globules of sulfide(?).

Sample No.: ALH84025
Weight (g): 4.6
Dimensions (cm): 2 x 1.5 x .8
Meteorite Type: Achondrite (unique)

Location: Allan Hills
Field No.: 1518

Macroscopic Description: Carol Schwarz

This fragment has thick fusion crust on all sides but one. That surface is greenish with shiny crystals. The interior consists mainly of yellowish and greenish olivine or pyroxene. There are a few small dark inclusions and several grains of salt deposit visible. The sample is very friable and seems to be somewhat weathered.

Thin Section (,4) Description: Glenn MacPherson

This unique meteorite is essentially a dunite; it consists of large (up to 1.5 mm) polygonal olivine crystals that are uniformly Fo 67-68 in composition, with lesser pyroxene (Wo44 En46 Fs11) and sparse polygonal chromite grains. The texture is very uniform and polygonal-granular. Criss-crossing the meteorite are veins of troilite, within which are tiny globules of Ni-rich (about 30% Ni) metal. In many cases these sulfide veins are no more than trails of tiny sulfide grains that outline crystal boundaries and define (presumably) healed fractures within crystals. Only the larger and more continuous veins contain metal. Neither the olivine nor the pyroxene show significant undulatory extinction.

A well-defined fusion crust encloses much of the area in the thin section, reflecting the small overall size of this meteorite. A very few fractures show slight staining by iron oxides, indicating that the meteorite has experienced only minor terrestrial weathering.

This specimen most closely resembles Brachina in texture and mineralogy but, unlike Brachina, it is much more coarsely crystalline and contains no plagioclase. No pentlandite was found during the preliminary examination and, if this holds true after more detailed work, it would further distinguish ALH84025 from Brachina. The absence of plagioclase and orthopyroxene, and near-absence of metal except the minor amount in the veins, distinguishes ALH84025 from meteorites such as ALHA77081 and Acapulco.

Sample No.: ALH84027 Location: Allan Hills
Weight (g): 8.0 Field No.: 1531
Dimensions (cm): 2 x 1.5 x 1
Meteorite Type: LL7(?) Chondrite

Macroscopic Description: Carol Schwarz

Fusion crust, weathered and fractured in places, covers all but one side of this fragment. The remaining surface is brown with a small area of greenish material. The interior is reddish brown to dark gray with metal present.

Thin Section (,3) Description: Glenn MacPherson

This meteorite is an intensely recrystallized chondrite with only a few very faintly preserved barred olivine chondrules that testify to its chondritic heritage. The texture is basically polygonal-granular but is porphyroblastic in some areas. Principal minerals are olivine (uniformly Fa27), coarse plagioclase (An10 Ab85 Or5), diopsidic pyroxene (En49 Fs10 Wo41), orthopyroxene (En75 Fs23 Wo2), chromite, troilite and minor Ni-rich metal. Preliminary analyses suggest that two slightly different orthopyroxenes are present (one with 0.85% CaO and the other with 1.2% CaO). Large metal grains are zoned from cores of approximately 27% Ni to rims of approximately 35% Ni. On a volumetric basis, metal is very subordinate to troilite.

Although the olivine composition is transitional between L- and LL-chondrites, the low metal abundance suggests classification as LL, despite the lack of brecciation. The high CaO concentration in orthropyroxene (commonly >1%) and the unusually coarse degree of recrystallization suggests petrologic type 7. Therefore, this specimen is tentatively classified as an LL7 chondrite.

Slight local staining of metal particles indicates mild terrestrial weathering. Well-developed fusion crust forms approximately one-half of the perimeter of the section.

Sample No.: ALH84028
Weight (g): 735.9
Dimensions (cm): 9 x 8 x 6.5
Meteorite Type: C3V Chondrite

Location: Allan Hills
Field No.: 2850

Macroscopic Description: Carol Schwarz

Bubbly black fusion crust covers about 50% of this rounded specimen. Without fusion crust the sample is dark with lighter inclusions. Some salt deposit has formed. The interior is gray with numerous 1-2 mm lighter inclusions and a few oxidation haloes.

Thin Section (,4) Description: Glenn MacPherson

This specimen shows no obvious evidence of terrestrial weathering.

A variety of chondrules up to about 2 mm in diameter, clasts, and inclusions up to about 4 mm in maximum dimension are distributed throughout a pristine matrix consisting of (at least) abundant minute olivine plates of Fa 45-50 composition, troilite, and awaruite. The chondrules are very well preserved, and many contain devitrified glass. The olivine in chondrules, and larger matrix grains, have a wide range of composition, from Fa 0-30, but most are Fa 0-10. Pyroxene grains having a composition close to Wo1 En97 Fs2 were found, although a wide range of compositions like that of olivine is presumably present.

Fine-grained and "coarse-grained" refractory inclusions are present, including one large one (a Type A, irregular in shape) that contains gehlenitic melilite, spinel, and very titanium-rich fassaitic pyroxene.

This is a beautiful example of a C3V carbonaceous chondrite.

Sample No.: ALH84029
Weight (g): 119.8
Dimensions (cm): 5.5 x 5 x 4
Meteorite Type: C2 Chondrite

Location: Allan Hills
Field No.: 1534

Macroscopic Description: Carol Schwarz

This specimen is black and angular with smooth sides. Many fractures are present as well as some white salt deposit. The interior is black and fine-grained. The sample is similar to ALH83100.

Thin Section (,3) Description: Glenn MacPherson

This meteorite resembles ALH84030, ALH84031, ALH84032, ALH84034, ALH84042, and ALH84044. All are very similar to one another and all resemble ALH83100, with which they are probably paired.

Alteration is extensive and the major component is a brown to black phyllosilicate matrix that encloses green to pale brown phyllosilicate pseudomorphs of chondrules, crystals and inclusions. Calcite is abundant. Sporadic primary olivine crystals are preserved and are mostly Fa 0-2, although a few as iron-rich as Fa 37 were found. Chromite, pentlandite, and (?) magnetite are accessory.

Chondrules and inclusions range up to a little over 1 mm in diameter. Inclusions are completely altered.

This is a C2 chondrite.

Sample No.: ALH84030 Location: Allan Hills
Weight (g): 6.2 Field No.: 1566
Dimensions (cm): 2 x 1.8 x 1.5; 1.5 x 1 x 1
Meteorite Type: C2 Chondrite

Macroscopic Description: Carol Schwarz

This specimen consists of two pieces, one extremely fractured, which are black and fine-grained and similar to ALH83100. One piece was chipped to reveal a black fine-grained interior.

Thin Section (,4) Description: Glenn MacPherson

See ALH84029 for description.

Sample No.: ALH84031 Location: Allan Hills
Weight (g): 12.5 Field No.: 2029
Dimensions (cm): 2 x 2.5 x 1.5
Meteorite Type: C2 Chondrite

Macroscopic Description: Rene Martinez

Light brown polygonally fractured fusion crust covers this meteorite. The interior is dark and fine-grained. Some white salt deposit has formed on the exterior. This specimen is similar to ALH83100.

Thin Section (,2) Description: Glenn MacPherson

See ALH84029 for description.

Sample No.: ALH84032
Weight (g): 7.9
Dimensions (cm): 3 x 2 x 1.5
Meteorite Type: C2 Chondrite

Location: Allan Hills
Field No.: 2020

Macroscopic Description: Carol Schwarz

This fragment is black, fine-grained and similar to ALH83100. The interior is also black and fine-grained with no distinguishing features.

Thin Section (,2) Description: Glenn MacPherson

See ALH84029 for description. However, a rare grain of pyroxene ($Wo_4En_{94}Fs_2$) and one refractory inclusion with relict spinel ($MgAl_2O_4$) were also found in ALH84032.

Sample No.: ALH84033
Weight (g): 60.4
Dimensions (cm): 5 x 4 x 2 (largest)
Meteorite Type: C2 Chondrite

Location: Allan Hills
Field No.: 2810

Macroscopic Description: Carol Schwarz

This specimen consists of one large rounded piece with several small areas of fusion crust; two smaller pieces, and many <1 cm chips. The matrix is black with some lighter colored 1 mm sized chondrules/clasts and numerous small clasts. Some salt deposit has formed.

Thin Section (,5) Description: Glenn MacPherson

Unlike ALH83100 and its many paired kin, this specimen is a pristine example of a C2 carbonaceous chondrite that contains abundant preserved primary phases.

Chondrules up to nearly 2 mm in diameter, abundant and varied inclusion types, crystals, and crystal fragments are dispersed in a black matrix that is reddish brown on thin edges. Olivine is uniformly Fa 0-1 among the grains analyzed. Two pyroxene grains were encountered that have an average composition of Wo2 En96 Fs2. Troilite, pentlandite, Ni-Fe metal, chromite, and magnetite(?) are accessory phases.

Many refractory inclusions are present, containing spinel, perovskite and, in a few cases, blue-pleochroic hibonite. Some of the inclusions are unusually large for a C2 meteorite, up to 0.6 mm.

This meteorite shows little or no evidence of terrestrial weathering.

Sample No.: ALH84034 Location: Allan Hills
Weight (g): 44.1 Field No.: 2081
Dimensions (cm): 5 x 4 x 3
Meteorite Type: C2 Chondrite

Macroscopic Description: Carol Schwarz
This specimen is black, fine-grained and similar to ALH83100. Small areas of reddish fusion crust remain. The interior is also black and fine-grained.

Thin Section (,4) Description: Glenn MacPherson
See ALH84029 for description.

Sample No.: ALH84042 Location: Allan Hills
Weight (g): 51.2 Field No.: 2054
Dimensions (cm): 5.5 x 4.5 x 2
Meteorite Type: C2 Chondrite

Macroscopic Description: Carol Schwarz
The meteorite is black, fine-grained, and similar to ALH83100.

Thin Section (,4) Description: Glenn MacPherson
See ALH84029 for description.

Sample No.: ALH84044
Weight (g): 147.4
Dimensions (cm): 8 x 7 x 3.5
Meteorite Type: C2 Chondrite

Location: Allan Hills
Field No.: 1520

Macroscopic Description: Carol Schwarz

The meteorite is black, fine-grained, fractured, and similar to ALH83100. Only a few cm^2 of reddish fusion crust remain on the specimen. The interior is black and fine-grained with some salt deposit present.

Thin Section (,4) Description: Glenn MacPherson

See ALH84029 for description.

RECLASSIFICATION OF EET83247 AS A DIOGENITE

Meteorite EET83247 was listed in the previous Newsletter issue (8(1), p. 31) as an "aubrite (?)." However, a mistake in the classification report was not discovered until after the Newsletter was mailed. Be advised that EET83247 is a diogenite.

COMPREHENSIVE LISTINGS OF METEORITES

As the number of collected and classified Antarctic meteorites continues to grow, published descriptions of the collection rapidly become obsolete. Accordingly, the Newsletter attempts to provide regular and complete listings of classified meteorites that reflect the current state of knowledge. The following pages provide two different types of comprehensive listings that, taken together, represent the state of the collection as of August, 1985. Except for a few pebbles from the 1978 collection which are still being classified, the listings are complete for the 1976-1982 collections. Most of the 1983 collection is also included although a few 1983 specimens are still being classified. Most of the 1984 specimens remain to be classified. Additional specimens from 1983 and 1984 will be described in Newsletter 9(1) which is planned for February, 1986.

The formats of Tables 2 and 3 are basically those that have been used in previous Newsletter issues. However, as a new feature, Table 2 includes references to the original published classification/description of each specimen. Each entry under the "Smithsonian" column refers to the "No." and beginning page number of the appropriate chapter in the Smithsonian Contribution to the Earth Sciences series (see bottom of page 2, this Newsletter). Each entry in the "Newsletter" column refers to the "Vol. (No.)" of the corresponding issue of the Antarctic Meteorite Newsletter. For example, the entries "26,23" and "6(1)" for ALHA81005 indicate that descriptions of the meteorite can be found in Newsletter 6(1) and in the chapter beginning on page 23 in Smithsonian Contributions to the Earth Sciences No. 26.

TABLE 2

CLASSIFIED METEORITES FROM THE 1976-1984 COLLECTIONS
(AS OF AUGUST, 1985)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTER
ALHA76001	20151.0	L-6 CHONDRITE	A	A	23,12	
ALHA76002	307.0	IRON-GROUP IA			23,12	1(3)
					24,49	4(1)
ALHA76003	10495.0	L-6 CHONDRITE	A	A	23,12	
ALHA76004	52.5	LL-3 CHONDRITE	A	A	23,12	1(3)
						4(1)
ALHA76005	317.3	EUCRITE (POLYMICT)	A	A	23,12	2(1)
						4(1)
ALHA76006	271.0	H-6 CHONDRITE	C	B	23,12	1(3)
						4(1)
ALHA76007	78.5	L-6 CHONDRITE	B	A	23,12	1(3)
						4(1)
ALHA76008	281.3	H-6 CHONDRITE	B/C	B	23,12	1(3)
						4(1)
ALHA76009	3950.0	L-6 CHONDRITE	B	B	23,12	1(3)
						4(1)
ALHA77001	252.0	L-6 CHONDRITE	B	B	23,12	1(1)
						1(2)
						4(1)
ALHA77002	235.2	L-5 CHONDRITE	B	A/B	23,12	1(1)
						1(2)
						4(1)
ALHA77003	779.6	CARBONACEOUS C30	A	A	23,12	1(2)
						4(1)
						4(2)
ALHA77004	2230.0	H-4 CHONDRITE	C	C	23,12	2(1)
						4(1)
ALHA77005	482.5	SHERGOTTITE	A	A	23,12	1(2)
						1(3)
ALHA77007	99.3	H-5 CHONDRITE	B			4(1)
ALHA77008	93.0	L-6 CHONDRITE	A		26,55	6(2)
ALHA77009	235.5	H-4 CHONDRITE	C	A	26,55	6(2)
						3(1)
ALHA77010	295.8	H-4 CHONDRITE	C	A		4(1)
						3(1)
ALHA77011	291.5	L-3 CHONDRITE	C	A	26,55	4(1)
						3(1)
						4(1)
ALHA77012	180.2	H-5 CHONDRITE	C	A		4(2)
						3(1)
ALHA77013	23.0	L-3 CHONDRITE	B			4(1)
ALHA77014	308.8	H-5 CHONDRITE	C	B/C	26,55	6(2)
					23,12	2(1)
ALHA77015	411.1	L-3 CHONDRITE	C	B	23,12	4(1)
						2(1)
ALHA77016	78.3	H-5 CHONDRITE	B			4(1)
ALHA77017	77.9	H-5 CHONDRITE	B		26,55	6(2)
ALHA77018	51.8	H-5 CHONDRITE	B/C		26,55	6(2)
ALHA77019	59.8	L-6 CHONDRITE	B/C		26,55	6(2)
ALHA77021	16.7	H-5 CHONDRITE	C	A	26,55	6(2)
					23,12	1(2)
ALHA77022	16.0	H-5 CHONDRITE	A			4(1)
					26,55	6(2)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETT
ALHA77023	21.4	H-5 CHONDRITE	B		26,55	6(2)
ALHA77025	19.4	H-5 CHONDRITE	C	B	23,12	1(2) 4(1)
ALHA77026	20.3	L-6 CHONDRITE	B/C		26,55	6(2)
ALHA77027	3.7	L-6 CHONDRITE	B/C		26,55	6(2)
ALHA77029	1.4	CARBONACEOUS C3O	A/B		26,55	6(2)
ALHA77031	0.5	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77033	9.3	L-3 CHONDRITE	C	B	23,12	1(2) 4(1)
ALHA77034	1.8	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77036	8.5	L-3 CHONDRITE	B		26,55	6(2)
ALHA77038	18.8	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77039	8.2	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77041	16.6	LL-6 CHONDRITE	A		26,55	6(2)
ALHA77042	20.4	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77043	11.4	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77045	17.9	H-5 CHONDRITE	A		26,55	6(2)
ALHA77046	7.6	H-6 CHONDRITE	A/B		26,55	6(2)
ALHA77047	20.5	L-3 CHONDRITE	C		26,55	6(2)
ALHA77049	7.3	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77050	84.2	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77051	15.0	H-5 CHONDRITE	A		26,55	6(2)
ALHA77052	112.2	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77054	10.4	H-5 CHONDRITE	B		26,55	6(2)
ALHA77056	12.3	H-4 CHONDRITE	A/B		26,55	6(2)
ALHA77058	3.7	H-5 CHONDRITE	B		26,55	6(2)
ALHA77060	64.4	LL-5 CHONDRITE	A		26,55	6(2)
ALHA77061	12.6	H-5 CHONDRITE	B	A	23,12	1(2) 4(1)
ALHA77062	16.7	H-5 CHONDRITE	B	B	23,12	1(2) 4(1)
ALHA77063	2.9	H-5 CHONDRITE	B		26,55	6(2)
ALHA77064	6.5	H-5 CHONDRITE	B	B	23,12	1(2) 4(1)
ALHA77066	4.9	H-5 CHONDRITE	A		26,55	6(2)
ALHA77069	0.8	L-6 CHONDRITE	B/C		26,55	6(2)
ALHA77070	18.4	H-5 CHONDRITE	B		26,55	6(2)
ALHA77071	10.9	H-5 CHONDRITE	B	B	23,12	1(2) 4(1)
ALHA77073	10.1	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77074	12.1	H-5 CHONDRITE	B	B	23,12	1(2) 4(1)
ALHA77076	1.7	H-5 CHONDRITE	B		26,55	6(2)
ALHA77078	24.1	H-5 CHONDRITE	B		26,55	6(2)
ALHA77079	7.8	H-5 CHONDRITE	A		26,55	6(2)
ALHA77081	8.6	H(?) CHONDRITE	B	A	23,12	1(2) 4(1)
ALHA77082	12.0	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77084	44.1	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77085	45.9	H-5 CHONDRITE	B		26,55	6(2)
ALHA77086	19.4	H-5 CHONDRITE	C	B	23,12	1(2) 4(1)
ALHA77087	30.7	H-5 CHONDRITE	B		26,55	6(2)
ALHA77088	51.2	H-5 CHONDRITE	C	B	23,12	1(2) 4(1)
ALHA77089	7.8	L-6 CHONDRITE	B		26,55	6(2)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTER
ALHA77091	4.2	H-5 CHONDRITE	B/C		26,55	6(2)
ALHA77092	45.0	H-5 CHONDRITE	A		26,55	6(2)
ALHA77094	6.6	H-5 CHONDRITE	B		26,55	6(2)
ALHA77096	2.5	H-5 CHONDRITE	A		26,55	6(2)
ALHA77098	8.0	H-5 CHONDRITE	B		26,55	6(2)
ALHA77100	18.2	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77101	3.8	H-5 CHONDRITE	B		26,55	6(2)
ALHA77102	12.3	H-5 CHONDRITE	B	B	23,12	1(2)
						4(1)
ALHA77104	6.3	H-5 CHONDRITE	A		26,55	6(2)
ALHA77106	7.8	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77108	0.7	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77111	52.3	H-6 CHONDRITE	A/B		26,55	6(2)
ALHA77112	21.7	H-5 CHONDRITE	A		26,55	6(2)
ALHA77113	2.0	H-5 CHONDRITE	B		26,55	6(2)
ALHA77114	44.5	H-5 CHONDRITE	B		26,55	6(2)
ALHA77115	154.4	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77117	20.8	L-5 CHONDRITE	A/B		26,55	6(2)
ALHA77118	7.8	H-5 CHONDRITE	C	B	23,12	1(2)
						4(1)
ALHA77119	6.4	H-5 CHONDRITE	C	B	23,12	1(2)
						4(1)
ALHA77120	3.9	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77122	4.6	H-5 CHONDRITE	B		26,55	6(2)
ALHA77124	4.4	H-5 CHONDRITE	C	A	23,12	1(2)
						4(1)
ALHA77125	18.7	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77126	25.2	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77127	3.8	L-5 CHONDRITE	B		26,55	6(2)
ALHA77129	1.7	H-5 CHONDRITE	B		26,55	6(2)
ALHA77130	24.8	H-5 CHONDRITE	A		26,55	6(2)
ALHA77131	25.9	H-6 CHONDRITE	A/B		26,55	6(2)
ALHA77132	115.4	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77133	18.7	H-6 CHONDRITE	A		26,55	6(2)
ALHA77134	19.1	H-6 CHONDRITE	A		26,55	6(2)
ALHA77136	3.6	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77138	2.1	H-5 CHONDRITE	A		26,55	6(2)
ALHA77139	65.9	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77140	78.6	L-3 CHONDRITE	C	B	23,12	1(2)
						4(1)
ALHA77142	3.1	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77143	39.0	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77144	7.9	H-6 CHONDRITE	B	A	23,12	1(2)
						4(1)
ALHA77146	18.2	H-6 CHONDRITE	A/B		26,55	6(2)
ALHA77147	18.7	H-6 CHONDRITE	A/B		26,55	6(2)
ALHA77148	13.1	H-6 CHONDRITE	C	B	23,12	1(2)
						4(1)
ALHA77149	25.6	H-6 CHONDRITE	A/B		26,55	6(2)
ALHA77150	58.3	L-6 CHONDRITE	C	B	23,12	1(2)
						4(1)
ALHA77151	16.9	H-5 CHONDRITE	A		26,55	6(2)
ALHA77152	17.8	H-5 CHONDRITE	A		26,55	6(2)
ALHA77153	12.0	H-5 CHONDRITE	A		26,55	6(2)
ALHA77155	305.3	L-6 CHONDRITE	A/B	A	23,12	2(1)
						4(1)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETT
ALHA77156	17.7	EH-4 CHONDRITE	B		26,55	6(2)
ALHA77157	88.3	H-6 CHONDRITE	A/B		26,55	6(2)
ALHA77158	19.9	H-5 CHONDRITE	B		26,55	6(2)
ALHA77159	17.0	L-6 CHONDRITE	A/B		26,55	6(2)
ALHA77160	70.4	L-3 CHONDRITE	C	B	23,12	1(3) 4(1)
ALHA77161	6.1	H-5 CHONDRITE	B		26,55	6(2)
ALHA77162	29.0	L-6 CHONDRITE	A		26,55	6(2)
ALHA77163	24.3	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77164	38.1	L-3 CHONDRITE	C	C	23,12	1(3) 4(1)
ALHA77165	30.5	L-3 CHONDRITE	C	C	23,12	1(3) 4(1)
ALHA77166	138.8	L-3 CHONDRITE	C		26,55	6(2)
ALHA77167	611.2	L-3 CHONDRITE	C	B/C	23,12	2(1) 4(1)
ALHA77168	24.7	H-5 CHONDRITE	B		26,55	6(2)
ALHA77170	12.2	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77171	23.8	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77173	25.8	H-5 CHONDRITE	B		26,55	6(2)
ALHA77174	32.4	H-5 CHONDRITE	A		26,55	6(2)
ALHA77175	23.3	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77176	55.4	L-3 CHONDRITE	B		26,55	6(2)
ALHA77177	368.2	H-5 CHONDRITE	C	A	23,12	2(1) 4(1)
ALHA77178	5.7	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77180	190.8	L-6 CHONDRITE	C	A	24,19	3(1) 4(1)
ALHA77181	33.0	H-5 CHONDRITE	B		26,55	6(2)
ALHA77182	1134.7	H-5 CHONDRITE	C	B	23,12	2(1) 4(1)
ALHA77183	288.0	H-6 CHONDRITE	C	A	24,19	3(1) 4(1)
ALHA77184	127.6	H-5 CHONDRITE	B		26,55	6(2)
ALHA77185	28.0	L-3 CHONDRITE	A/B		26,55	6(2)
ALHA77186	122.4	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77187	52.2	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77188	109.0	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77190	387.1	H-4 CHONDRITE	C	C	23,12	2(1) 4(1)
ALHA77191	642.2	H-4 CHONDRITE	C	B/C	23,12	2(1) 4(1)
ALHA77192	845.3	H-4 CHONDRITE	C	C	23,12	2(1) 4(1)
ALHA77193	6.7	H-5 CHONDRITE	A		26,55	6(2)
ALHA77195	4.7	H-5 CHONDRITE	A		26,55	6(2)
ALHA77197	20.3	L-3 CHONDRITE	A/B		26,55	6(2)
ALHA77198	7.3	L-6 CHONDRITE	B		26,55	6(2)
ALHA77200	0.9	H-6 CHONDRITE	C		26,55	6(2)
ALHA77201	15.0	H-5 CHONDRITE	A		26,55	6(2)
ALHA77202	2.7	H-5 CHONDRITE	B		26,55	6(2)
ALHA77205	3.1	H-5 CHONDRITE	B		26,55	6(2)
ALHA77207	4.9	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77208	1733.0	H-4 CHONDRITE	C	C	23,12	1(3) 4(1)
ALHA77209	31.8	H-6 CHONDRITE	B		26,55	6(2)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTER
ALHA77211	26.7	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77212	16.8	H-6 CHONDRITE	A/B		26,55	6(2)
ALHA77213	8.4	H-5 CHONDRITE	A		26,55	6(2)
ALHA77214	2111.0	L-3 CHONDRITE	C	C	23,12	1(2)
						4(1)
ALHA77215	819.6	L-3 CHONDRITE	B	B/C	23,12	2(1)
						4(1)
ALHA77216	1470.0	L-3 CHONDRITE	A/B	B/C	23,12	2(1)
						4(1)
ALHA77217	413.2	L-3 CHONDRITE	B	B/C		2(1)
						4(1)
ALHA77218	45.1	L-5 CHONDRITE	A		26,55	6(2)
ALHA77219	637.1	MESOSIDERITE	B	B	23,12	1(3)
						4(1)
ALHA77220	69.1	H-5 CHONDRITE	B		26,55	6(2)
ALHA77221	229.2	H-4 CHONDRITE	C	A	24,19	3(1)
						4(1)
ALHA77222	125.4	H-4 CHONDRITE	A/B		26,55	6(2)
ALHA77223	207.9	H-4 CHONDRITE	C	C	24,19	3(1)
						4(1)
ALHA77224	786.9	H-4 CHONDRITE	C	C	23,12	1(3)
						4(1)
ALHA77225	5878.0	H-4 CHONDRITE	C	C	24,19	3(1)
						4(1)
ALHA77226	15323.0	H-4 CHONDRITE	C	C	24,19	3(2)
						4(1)
ALHA77227	16.0	H-5 CHONDRITE	A		26,55	6(2)
ALHA77228	19.3	H-5 CHONDRITE	B		26,55	6(2)
ALHA77230	2473.0	L-4 CHONDRITE	C	B	23,12	1(3)
						4(1)
ALHA77231	9270.0	L-6 CHONDRITE	A/B	A/B	23,12	2(1)
						4(1)
ALHA77232	6494.3	H-4 CHONDRITE	C	C	24,19	3(1)
						4(1)
ALHA77233	4087.0	H-4 CHONDRITE	C	B	23,12	2(1)
						4(1)
ALHA77235	4.9	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77237	4.1	H-5 CHONDRITE	A		26,55	6(2)
ALHA77239	19.0	H-6 CHONDRITE	B		26,55	6(2)
ALHA77240	25.1	H-5 CHONDRITE	A		26,55	6(2)
ALHA77241	144.1	L-3 CHONDRITE	C		26,55	6(2)
ALHA77242	56.5	H-5 CHONDRITE	B		26,55	6(2)
ALHA77244	39.5	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77245	33.4	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77246	41.6	H-6 CHONDRITE	B		26,55	6(2)
ALHA77247	44.3	H-5 CHONDRITE	A/B		26,55	6(2)
ALHA77248	96.1	H-6 CHONDRITE	B/C		26,55	6(2)
ALHA77249	503.6	L-3 CHONDRITE	C	C	23,12	2(1)
						4(1)
ALHA77250	10555.0	IRON-GROUP IA			23,12	1(3)
					24,49	3(2)
						4(1)
ALHA77251	68.8	L-6 CHONDRITE	B		26,55	6(2)
ALHA77252	343.1	L-3 CHONDRITE	B	C	23,12	2(1)
						4(1)
ALHA77253	23.6	H-5 CHONDRITE	A/B		26,55	6(2)

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ALHA77254	245.8	L-5 CHONDRITE	A/B	A	23,12	2(1) 4(1)
ALHA77255	765.1	IRON-ATAXITE (ANOM)			23,12 24,49	2(1) 3(2) 4(1)
ALHA77256	676.2	DIOGENITE	A/B	A	23,12	1(2) 4(1)
ALHA77257	1995.7	UREILITE	A	B	23,12	1(2) 4(1)
ALHA77258	597.3	H-6 CHONDRITE	B/C	A/B	23,12	2(1) 4(1)
ALHA77259	294.0	H-5 CHONDRITE	C	B	24,19	3(1) 4(1)
ALHA77260	744.3	L-3 CHONDRITE	C	C	23,12	2(1) 4(1)
ALHA77261	411.7	L-6 CHONDRITE	B	B	23,12	2(1) 4(1)
ALHA77262	861.5	H-4 CHONDRITE	B/C	B	23,12	2(1) 4(1)
ALHA77263	1669.0	IRON-GROUP IA			23,12 24,49	2(1) 3(2) 4(1)
ALHA77264	11.0	H-5 CHONDRITE	A/B	A	23,12	1(2) 4(1)
ALHA77265	18.3	H-5 CHONDRITE	B		26,55	6(2)
ALHA77266	108.4	H-5 CHONDRITE	B		26,55	6(2)
ALHA77267	103.5	L-5 CHONDRITE	A		26,55	6(2)
ALHA77268	272.0	H-5 CHONDRITE	C	C	24,19	3(1) 4(1)
ALHA77269	1045.0	L-6 CHONDRITE	B	A	23,12	1(3) 4(1)
ALHA77270	588.9	L-6 CHONDRITE	A/B	B	23,12	2(1) 4(1)
ALHA77271	609.5	H-6 CHONDRITE	C	A	23,12	1(3) 4(1)
ALHA77272	674.1	L-6 CHONDRITE	B/C	B	23,12	1(2) 4(1)
ALHA77273	492.0	L-6 CHONDRITE	B	B	23,12	1(3) 4(1)
ALHA77274	288.1	H-5 CHONDRITE	C	A	24,19	3(1) 4(1)
ALHA77275	24.9	H-5 CHONDRITE	A		26,55	6(2)
ALHA77277	142.7	L-6 CHONDRITE	A/B	A	23,12	1(3) 4(1)
ALHA77278	312.9	LL-3 CHONDRITE	A	A	23,12	1(2) 4(1)
ALHA77279	174.5	H-5 CHONDRITE	A		26,55	6(2)
ALHA77280	3226.0	L-6 CHONDRITE	B	B/C	23,12	1(3) 4(1)
ALHA77281	1231.0	L-6 CHONDRITE	B	B	23,12	1(3) 4(1)
ALHA77282	4127.1	L-6 CHONDRITE	B	B	23,12	1(3) 4(1)
ALHA77283	10510.0	IRON-GROUP IA			23,12 24,49	1(3) 3(2) 4(1)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTER
ALHA77284	376.2	L-6 CHONDRITE	A/B	B	23,12	2(1) 4(1)
ALHA77285	271.1	H-6 CHONDRITE	C	B	23,12	2(1) 4(1)
ALHA77286	245.8	H-4 CHONDRITE	C	B	24,19	3(1) 4(1)
ALHA77287	230.1	H-5 CHONDRITE	C	A	23,12 24,19	3(1) 4(1)
ALHA77288	1880.0	H-6 CHONDRITE	C	B	23,12	1(3) 4(1)
ALHA77289	2186.0	IRON-GROUP IA			23,12 24,49	2(1) 3(2) 4(1)
ALHA77290	3784.0	IRON-GROUP IA			23,12 24,49	1(3) 3(2) 4(1)
ALHA77291	5.8	H-5 CHONDRITE	A		26,55	6(2)
ALHA77292	199.6	L-6 CHONDRITE	B	A	24,19	3(1) 4(1)
ALHA77293	109.7	L-6 CHONDRITE	B		26,55	6(2)
ALHA77294	1351.0	H-5 CHONDRITE	A	A	23,12	2(1) 4(1)
ALHA77295	141.3	EH-4 CHONDRITE	B		26,55	6(2)
ALHA77296	963.3	L-6 CHONDRITE	A/B	A	23,12	2(1) 4(1)
ALHA77297	951.6	L-6 CHONDRITE	A	B	23,12	2(1) 4(1)
ALHA77299	260.7	H-3 CHONDRITE	A	A	23,12	1(2) 4(1)
ALHA77300	234.5	H-5 CHONDRITE	C	B	23,12	2(1) 4(1)
ALHA77301	54.9	L-6 CHONDRITE	A		26,55	6(2)
ALHA77302	235.5	EUCRITE (POLYMICT)	A	A	23,12	1(2) 1(3) 4(1)
ALHA77303	78.6	L-3 CHONDRITE	B/C		26,55	6(2)
ALHA77304	650.4	L-4 CHONDRITE	B	B	23,12	2(1) 4(1)
ALHA77305	6444.0	L-6 CHONDRITE	B/C	B	23,12	1(3) 4(1)
ALHA77306	19.9	CARBONACEOUS C2	A	A	23,12	1(1) 1(2) 1(3) 4(1)
ALHA77307	181.3	CARBONACEOUS C3	A	A	23,12	1(3) 4(1)
ALHA78001	84.5	H-5 CHONDRITE	B			
ALHA78002	11.5	H-6 CHONDRITE	A			
ALHA78003	124.8	L-6 CHONDRITE	C	B		7(2)
ALHA78004	35.9	H-5 CHONDRITE				6(2)
ALHA78005	28.2	H-5 CHONDRITE	B			
ALHA78006	8.0	HOWARDITE	A	A	24,19	2(2) 4(1)
ALHA78008	7.4	H-5 CHONDRITE				7(2)
ALHA78010	1.3	H-5 CHONDRITE	B			
ALHA78012	38.1	H-5 CHONDRITE				7(2)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTER
ALHA78013	4.1	L-3 CHONDRITE				7(2)
ALHA78015	34.9	LL(?L)-3 CHONDRITE				6(2)
ALHA78017	2.9	L-3 CHONDRITE	B			
ALHA78018	17.9	H-5 CHONDRITE	B			
ALHA78019	30.3	UREILITE	B/C	C	24,19	2(2) 4(1)
ALHA78021	17.1	H-5 CHONDRITE				7(2)
ALHA78023	9.8	H-5 CHONDRITE				7(2)
ALHA78025	8.3	H-5 CHONDRITE	A			
ALHA78027	29.2	H-5 CHONDRITE				6(2)
ALHA78028	4.4	H-5 CHONDRITE				7(2)
ALHA78029	4.1	H-4 CHONDRITE	B			
ALHA78031	4.6	H-5 CHONDRITE				7(2)
ALHA78033	5.0	H-4 CHONDRITE	B			
ALHA78035	2.5	H-6 CHONDRITE				7(2)
ALHA78037	0.5	L-3 CHONDRITE	B			
ALHA78038	363.0	L-3 CHONDRITE	C	C	24,19	3(2) 4(1) 4(2)
ALHA78039	299.0	L-6 CHONDRITE	B	B	24,19	3(2) 4(1)
ALHA78040	211.7	EUCRITE (POLYMICT)	A	A	24,19	2(2) 4(1)
ALHA78041	117.5	L-3 CHONDRITE	B			
ALHA78042	214.1	L-6 CHONDRITE	B	A	24,19	3(2) 4(1)
ALHA78043	680.0	L-6 CHONDRITE	B	B	24,19	3(2) 4(1)
ALHA78044	164.1	L-4 CHONDRITE	B/C	B		4(1) 4(2)
ALHA78045	396.5	L-6 CHONDRITE	B/C	B	24,19	3(2) 4(1)
ALHA78046	70.0	L-3 CHONDRITE				7(2)
ALHA78047	130.3	H-5 CHONDRITE	B	B		6(2)
ALHA78048	190.6	L-6 CHONDRITE	A/B	B	24,19	3(2) 4(1)
ALHA78049	95.8	H-5 CHONDRITE	B			
ALHA78050	1045.0	L-6 CHONDRITE	B	B	24,19	3(1) 4(1)
ALHA78051	119.5	H-4 CHONDRITE				7(2)
ALHA78052	97.3	H-5 CHONDRITE	C	B		6(2)
ALHA78053	179.0	H-4 CHONDRITE	C	B	24,19	3(2) 4(1)
ALHA78055	13.7	L-6 CHONDRITE	B			
ALHA78057	8.7	H-4 CHONDRITE				7(2)
ALHA78059	9.1	L-6 CHONDRITE	B			
ALHA78062	10.9	LL-6 CHONDRITE				7(2)
ALHA78063	76.7	LL-6 CHONDRITE	A			
ALHA78065	7.3	H-6 CHONDRITE	B			
ALHA78067	7.8	H-6 CHONDRITE				7(2)
ALHA78069	4.4	H-6 CHONDRITE	B			
ALHA78070	10.0	L-4 CHONDRITE				7(2)
ALHA78074	200.2	L-6 CHONDRITE	B	B	24,19	3(2) 4(1)
ALHA78075	280.6	H-5 CHONDRITE	B/C	B	24,19	3(2) 4(1)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTER
ALHA78076	275.6	H-6 CHONDRITE	B	B	24,19	3(2)
						4(1)
ALHA78077	330.6	H-4 CHONDRITE	C	B	24,19	3(2)
						4(1)
ALHA78078	290.3	L-6 CHONDRITE	A/B	A	24,19	3(2)
						4(1)
ALHA78079	4.5	H-5 CHONDRITE				7(2)
ALHA78080	24.8	H-5 CHONDRITE				7(2)
ALHA78081	17.8	H-5 CHONDRITE				6(2)
ALHA78082	24.0	LL-6 CHONDRITE	A			
ALHA78084	14280.0	H-4 CHONDRITE	B/C	B	24,19	3(3)
						4(1)
ALHA78085	219.3	H-5 CHONDRITE	B	B	24,19	3(1)
						3(2)
						4(1)
ALHA78086	9.0	H-6 CHONDRITE				6(2)
ALHA78088	5.2	H-5 CHONDRITE				6(2)
ALHA78090	7.5	H-5 CHONDRITE				6(2)
ALHA78092	16.3	H-5 CHONDRITE				6(2)
ALHA78094	4.0	H-5 CHONDRITE				6(2)
ALHA78096	7.5	H-5 CHONDRITE				6(2)
ALHA78098	2.2	H-5 CHONDRITE				6(2)
ALHA78100	84.9	IRON-GROUP IIA			24,49	4(1)
ALHA78101	121.2	L-6 CHONDRITE				7(2)
ALHA78102	336.9	H-5 CHONDRITE	B/C	B	24,19	3(1)
						3(2)
						4(1)
ALHA78103	589.7	L-6 CHONDRITE	B	B	24,19	3(1)
						3(2)
						4(1)
ALHA78104	672.4	L-6 CHONDRITE	B	A	24,19	3(2)
						4(1)
ALHA78105	941.7	L-6 CHONDRITE	B	A	24,19	3(1)
						4(1)
ALHA78106	464.5	L-6 CHONDRITE	A/B	A	24,19	3(2)
						4(1)
ALHA78107	198.4	H-5 CHONDRITE	C	A	24,19	3(2)
						4(1)
ALHA78108	172.5	H-5 CHONDRITE	B	B	24,19	3(2)
						4(1)
ALHA78109	233.2	LL-5 CHONDRITE	A/B	A	24,19	3(2)
						4(1)
ALHA78110	160.7	H-5 CHONDRITE	B/C	B	24,19	3(2)
						4(1)
ALHA78111	126.8	H-5 CHONDRITE	B/C	A		4(1)
						4(2)
ALHA78112	2485.0	L-6 CHONDRITE	B	B	24,19	3(2)
						4(1)
ALHA78113	298.6	AUBRITE	A/B	A	24,19	2(2)
						4(1)
ALHA78114	808.1	L-6 CHONDRITE	B/C	B	24,19	3(2)
						4(1)
ALHA78115	847.6	H-6 CHONDRITE	B	A	24,19	3(2)
						4(1)
ALHA78116	127.8	H-5 CHONDRITE	B	B		6(2)
ALHA78117	4.3	H-5 CHONDRITE	A			

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTE
ALHA78119	102.6	L-3 CHONDRITE	A			
ALHA78120	44.3	H-4 CHONDRITE				7(2)
ALHA78121	30.4	H-5 CHONDRITE				6(2)
ALHA78122	4.7	H-6 CHONDRITE				7(2)
ALHA78123	18.4	H-5 CHONDRITE	B			
ALHA78124	27.7	H-6 CHONDRITE				7(2)
ALHA78125	18.8	L-6 CHONDRITE	B	B		6(2)
ALHA78126	606.9	L-6 CHONDRITE	B	B	24,19	3(2) 4(1)
ALHA78127	194.5	L-6 CHONDRITE	B/C	B	24,19	3(2) 4(1)
ALHA78128	154.7	H-5 CHONDRITE	C	B/C	24,19	3(2) 4(1)
ALHA78129	128.3	H-5 CHONDRITE	B			
ALHA78130	2733.0	L-6 CHONDRITE	B/C	B	24,19	3(2) 4(1)
ALHA78131	268.8	L-6 CHONDRITE	B/C	A	24,19	3(2) 4(1)
ALHA78132	656.0	EUCRITE (POLYMICT)	A	A	24,19	2(2) 4(1)
ALHA78133	59.9	L-3 CHONDRITE				7(2)
ALHA78134	458.3	H-4 CHONDRITE	B/C	B/C	24,19	3(2) 4(1)
ALHA78135	130.8	H-6 CHONDRITE	B	B		6(2)
ALHA78136	51.6	H-5 CHONDRTIE	A			
ALHA78137	70.0	H-6 CHONDRITE				7(2)
ALHA78138	10.8	LL-3 CHONDRITE	B			
ALHA78139	17.0	H-5 CHONDRITE				6(2)
ALHA78140	16.6	H-4 CHONDRITE	B			
ALHA78141	24.1	H-5 CHONDRITE				7(2)
ALHA78142	31.5	L-5 CHONDRITE				6(2)
ALHA78145	34.4	H-6 CHONDRITE	A			
ALHA78146	16.5	H-5 CHONDRITE				7(2)
ALHA78147	30.6	H-5,6 CHONDRITE				6(2)
ALHA78149	23.2	L-3 CHONDRITE	B			
ALHA78150	15.8	H-5 CHONDRITE				7(2)
ALHA78152	4.7	H-6 CHONDRITE				7(2)
ALHA78153	151.7	LL-6 CHONDRITE	B/C	B	24,19	3(2) 4(1)
ALHA78154	11.8	H-5 CHONDRITE	B			
ALHA78156	8.6	L-6 CHONDRITE				7(2)
ALHA78157	63.4	H-4 CHONDRITE	B			
ALHA78158	15.1	EUCRITE (POLYMICT)	A	A	24,19	2(2) 4(1)
ALHA78159	22.6	H-5 CHONDRITE				7(2)
ALHA78160	16.0	H-5 CHONDRITE				6(2)
ALHA78162	33.2	L-3 CHONDRITE	B			
ALHA78163	9.6	H-5 CHONDRITE	B			
ALHA78164	25.1	H-5 CHONDRITE				7(2)
ALHA78165	20.9	EUCRITE (POLYMICT)	A	A	24,19	2(2) 4(1)
ALHA78168	33.6	H-4 CHONDRITE	B			
ALHA78169	22.2	H-6 CHONDRITE	B			
ALHA78170	20.9	H-3 CHONDRITE	B			
ALHA78171	22.5	L-6 CHONDRITE	B			
ALHA78172	29.4	H-4 CHONDRITE	B			

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTER
ALHA78173	19.8	H-5 CHONDRITE	B			
ALHA78174	13.5	H-5 CHONDRITE	B			
ALHA78176	8.2	L-3 CHONDRITE	B			
ALHA78178	7.2	H-5 CHONDRITE	B			
ALHA78180	7.9	L-3 CHONDRITE	B			
ALHA78182	10.1	H-5 CHONDRITE				7(2)
ALHA78184	8.2	H-6 CHONDRITE				7(2)
ALHA78186	3.1	L-3 CHONDRITE				7(2)
ALHA78188	0.9	L-3 CHONDRITE	C	B	24,19	4(1)
ALHA78189	22.7	H-6 CHONDRITE				7(2)
ALHA78190	20.1	H-5 CHONDRITE				7(2)
ALHA78191	19.6	H-6 CHONDRITE				7(2)
ALHA78193	13.3	H-4 CHONDRITE	B/C	A	24,19	4(1)
ALHA78194	24.5	H-5 CHONDRITE				7(2)
ALHA78196	11.2	H-4 CHONDRITE	B/C	B	24,19	4(1)
ALHA78197	20.2	H-5 CHONDRITE				7(2)
ALHA78199	12.9	H-5 CHONDRITE				7(2)
ALHA78201	9.8	H-5 CHONDRITE				7(2)
ALHA78203	10.9	H-5 CHONDRITE				7(2)
ALHA78205	8.9	H-5 CHONDRITE				7(2)
ALHA78207	8.4	H-6 CHONDRITE				7(2)
ALHA78209	12.1	H-5 CHONDRITE	B/C	B	24,19	4(1)
ALHA78211	11.5	H-6 CHONDRITE	B	B	24,19	4(1)
ALHA78213	9.6	H-6 CHONDRITE	B	B	24,19	4(1)
ALHA78215	6.4	H-6 CHONDRITE	B/C	B	24,19	4(1)
ALHA78217	8.3	H-5 CHONDRITE	B			
ALHA78219	8.2	H-5 CHONDRITE	B			
ALHA78221	5.4	H-5 CHONDRITE	B	A	24,19	4(1)
ALHA78223	6.5	H-4 CHONDRITE	B	B	24,19	4(1)
ALHA78225	4.6	H-5 CHONDRITE	B	A	24,19	4(1)
ALHA78227	2.4	H-5 CHONDRITE	B/C	B	24,19	4(1)
ALHA78229	1.9	H-6 CHONDRITE	B	B	24,19	4(1)
ALHA78231	1.9	H-6 CHONDRITE	B/C	B	24,19	4(1)
ALHA78233	1.3	H-5 CHONDRITE	B/C	B	24,19	4(1)
ALHA78235	19.2	L-3 CHONDRITE	B			
ALHA78236	14.4	L-3 CHONDRITE				7(2)
ALHA78238	9.8	L-3 CHONDRITE				7(2)
ALHA78239	16.0	L-3 CHONDRITE	B			
ALHA78241	6.5	H-5 CHONDRITE				7(2)
ALHA78243	1.9	L-3 CHONDRITE				7(2)
ALHA78245	4.0	H-5 CHONDRITE				7(2)
ALHA78247	2.7	H-5 CHONDRITE				7(2)
ALHA78249	4.2	H-6 CHONDRITE				7(2)
ALHA78251	1312.0	L-6 CHONDRITE	B	A	24,19	3(1)
ALHA78252	2789.0	IRON-GROUP IVA			24,49	4(1) 2(1) 3(2) 4(1)
ALHA78253	6.8	H-5 CHONDRITE	B			
ALHA78255	3.2	H-5 CHONDRITE	A			
ALHA78257	2.1	H-5 CHONDRITE	B			
ALHA78259	6.2	H-5 CHONDRITE	A			
ALHA78261	5.1	CARBONACEOUS C2	A	A	24,19	3(2) 4(1)
ALHA78262	26.2	UREILITE	B/C	A	24,19	3(2) 4(1)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTE
ALHA79001	32.3	L-3 CHONDRITE	C	A	24,19	4(1)
ALHA79002	222.8	H-6 CHONDRITE	C	B	24,19	4(1)
ALHA79003	5.1	LL-3 CHONDRITE	B	B	24,19	4(1)
ALHA79004	34.9	H-5 CHON. W/ENCLAVES	B/C	B	24,19	4(1)
ALHA79005	60.0	H-6 CHONDRITE	B	B	24,19	4(1)
ALHA79006	41.0	H-5 CHONDRITE	B/C	B	24,19	4(1)
ALHA79007	142.3	L-6 CHONDRITE	A/B	B	24,19	4(1)
ALHA79008	12.0	H-5 CHONDRITE	B	B	24,19	4(1)
ALHA79009	75.7	H-5 CHONDRITE	C	A	24,19	4(1)
ALHA79010	25.1	H-5 CHONDRITE	B/C	B	24,19	4(1)
ALHA79011	14.0	H-5 CHONDRITE	B/C	A	24,19	4(1)
ALHA79012	191.9	H-5 CHONDRITE	C	B	24,19	4(1)
ALHA79013	28.3	H-5 CHONDRITE	C	B	24,19	4(1)
ALHA79014	10.8	H-5 CHONDRITE	B	A	24,19	4(1)
ALHA79015	64.0	H-5 CHONDRITE	B	B	24,19	4(1)
ALHA79016	1146.0	H-6 CHONDRITE	B/C	B	24,19	4(1)
ALHA79017	310.0	EUCRITE (POLYMICT)	A	A	24,19	3(3) 4(1)
ALHA79018	120.7	L-6 CHONDRITE	B/C	A/B	24,19	4(1)
ALHA79019	12.1	H-6 CHONDRITE	B	A	24,19	4(1)
ALHA79020	4.2	H-6 CHONDRITE	B/C	B	24,19	4(1)
ALHA79021	29.4	H-5 CHONDRITE	B	A	24,19	4(1)
ALHA79022	31.4	L-3,4 CHONDRITE	A/B	B	24,19	4(1) 4(2)
ALHA79023	68.1	H-4 CHONDRITE	B/C	C	24,19	4(1)
ALHA79024	21.6	H-6 CHONDRITE	C	B	24,19	4(1)
ALHA79025	1208.0	H-5 CHONDRITE	C	A	24,19	4(1)
ALHA79026	572.0	H-5 CHONDRITE	B	B	24,19	4(1)
ALHA79027	133.2	L-6 CHONDRITE	B	A	24,19	4(1)
ALHA79028	16.3	H-6 CHONDRITE	B	B	24,19	4(1)
ALHA79029	505.5	H-5 CHONDRITE	C	B/C	24,19	4(1)
ALHA79031	2.7	H-5 CHONDRITE	C	B	24,19	4(1)
ALHA79032	2.6	H-5 CHONDRITE	C	B	24,19	4(1)
ALHA79033	280.8	L-6 CHONDRITE	B	A	24,19	4(1)
ALHA79034	12.6	H-6 CHONDRITE	B	A	24,19	4(1)
ALHA79035	37.6	H-4 CHONDRITE	B	B	24,19	4(1)
ALHA79036	20.2	H-5 CHONDRITE	B	B	24,19	4(1)
ALHA79037	14.8	H-6 CHONDRITE	B	B	24,19	4(1)
ALHA79038	49.7	H-5 CHONDRITE	C	B	24,19	4(1)
ALHA79039	108.3	H-4 CHONDRITE	B	B		4(1)
ALHA79040	13.2	H-5 CHONDRITE	B	A	24,19	4(1)
ALHA79041	20.1	H-5 CHONDRITE	B	B	24,19	4(1)
ALHA79042	11.5	H-5 CHONDRITE	B	A	24,19	4(1)
ALHA79043	62.2	L-6 CHONDRITE	C	B	24,19	4(1)
ALHA79045	115.4	L-3 CHONDRITE	C	B	24,19	4(1)
ALHA79046	89.7	H-5 CHONDRITE	B	B	24,19	4(1)
ALHA79047	19.3	H-5 CHONDRITE	B	B	24,19	4(1)
ALHA79048	36.7	H-5 CHONDRITE	B	B	24,19	4(1)
ALHA79049	54.0	H-6 CHONDRITE	C	B	24,19	4(1)
ALHA79050	27.0	H-5 CHONDRITE	C	B	24,19	4(1)
ALHA79051	23.9	H-5 CHONDRITE	C	A	24,19	4(1)
ALHA79052	22.6	L-6 CHONDRITE	B/C	B	24,19	4(1)
ALHA79053	86.1	H-5 CHONDRITE	B/C	B	24,19	4(1)
ALHA79054	36.0	H-5 CHONDRITE	B	A	24,19	4(1)
ALHA79055	15.3	H-6 CHONDRITE	B/C	B	24,19	4(1)
ALHA80101	8725.0	L-6 CHONDRITE	B	B		4(2) 5(1)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTER
ALHA80102	471.2	EUCRITE (POLYMICT)	A	B	26,23	4(2)
						5(1)
ALHA80103	535.9	L-6 CHONDRITE	B	A		4(2)
						5(1)
ALHA80104	882.0	IRON-ATAXITE			26,49	4(2)
						5(1)
ALHA80105	445.1	L-6 CHONDRITE	B	B		4(2)
						5(1)
ALHA80106	432.2	H-4 CHONDRITE	C	B	26,23	4(2)
						5(1)
ALHA80107	177.8	L-6 CHONDRITE	B	B		5(1)
ALHA80108	124.5	L-6 CHONDRITE	B	B		5(1)
ALHA80110	167.6	L-6 CHONDRITE	B	B		4(2)
						5(1)
ALHA80111	42.4	H-5 CHONDRITE	B	A		5(1)
ALHA80112	330.7	L-6 CHONDRITE	B	B		4(2)
						5(1)
ALHA80113	312.6	L-6 CHONDRITE	B	B/C		4(2)
						5(1)
ALHA80114	232.8	L-6 CHONDRITE	B	B		4(2)
						5(1)
ALHA80115	306.0	L-6 CHONDRITE	B	A		4(2)
						5(1)
ALHA80116	191.2	L-6 CHONDRITE	B/C	B		4(2)
						5(1)
ALHA80117	89.0	L-6 CHONDRITE	B	A		5(1)
ALHA80118	2.4	H-6 CHONDRITE	B	A	26,23	5(1)
ALHA80119	33.7	L-6 CHONDRITE	B	B		5(1)
ALHA80120	60.1	L-6 CHONDRITE	B	B		5(1)
ALHA80121	39.1	H-4 CHONDRITE	B/C	C	26,23	5(1)
ALHA80122	49.8	H-6 CHONDRITE	B/C	B	26,23	5(1)
ALHA80123	27.8	H-5 CHONDRITE	C	A	26,23	5(1)
ALHA80124	12.0	H-5 CHONDRITE	B	B		5(1)
ALHA80125	139.2	L-6 CHONDRITE	B/C	B		4(2)
						5(1)
ALHA80126	34.5	H-6 CHONDRITE	A/B	A	26,23	5(1)
ALHA80127	47.5	H-5 CHONDRITE	B	A		5(1)
ALHA80128	138.2	H-4 CHONDRITE	B	B/C	26,23	5(1)
ALHA80129	93.4	H-5 CHONDRITE	B	A		5(1)
ALHA80130	5.3	H-6 CHONDRITE	B/C	A	26,23	5(1)
ALHA80131	19.8	H-4 CHONDRITE	B	B	26,23	5(1)
ALHA80132	152.8	H-5 CHONDRITE	B	B	26,23	4(2)
						5(1)
ALHA80133	3.6	L-3 CHONDRITE	B	B	26,23	5(1)
ALHA81001	52.9	EUCRITE (ANOMALOUS)	A	B	26,23	6(1)
ALHA81002	14.0	CARBONACEOUS C2	A	B	26,23	6(1)
ALHA81003	10.1	CARBONACEOUS C3V	A/B	A/B	26,23	6(1)
ALHA81004	4.7	CARBONACEOUS C2	A/B	A	26,23	6(1)
ALHA81005	31.4	ANORTHOSITIC BRECCIA	A/B	A	26,23	5(4)
						6(1)
ALHA81006	254.9	EUCRITE (POLYMICT)	A	A/B	26,23	6(1)
ALHA81007	163.5	EUCRITE (POLYMICT)	A/B	A	26,23	6(1)
ALHA81008	43.8	EUCRITE (POLYMICT)	A/B	A/B	26,23	6(1)
ALHA81009	229.0	EUCRITE	A	A	26,23	6(1)
						7(1)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLE
ALHA81010	219.1	EUCRITE (POLYMICT)	A	A	26,23	6(1
ALHA81011	405.7	EUCRITIC BRECCIA	A/B	A	26,23	6(1
ALHA81012	36.7	EUCRITE	A/B	A	26,23	6(1
ALHA81013	17727.0	IRON			26,49	6(1
ALHA81014	188.2	IRON			26,49	6(1
ALHA81015	5489.0	H-5 CHONDRITE	B	B	26,23	6(1
ALHA81016	3850.2	L-6 CHONDRITE	B	A	26,23	6(1
ALHA81017	1434.4	L-5 CHONDRITE	B	A	26,23	6(1
ALHA81018	2236.9	L-5 CHONDRITE	B	B	26,23	6(1
ALHA81019	1051.2	H-5 CHONDRITE	B/C	B	26,23	6(1
ALHA81020	1352.5	H-5 CHONDRITE	B	A	26,23	6(1
ALHA81021	695.1	E-6 CHONDRITE	A	B	26,23	6(1
ALHA81022	912.5	H-4 CHONDRITE	B/C	A	26,23	6(1
ALHA81023	418.3	L-5 CHONDRITE	B	A/B	26,23	6(1
ALHA81024	797.7	L-3 CHONDRITE	C	B	26,23	6(1
ALHA81025	379.0	L-3 CHONDRITE	C	B	26,23	6(1
ALHA81026	515.5	L-6 CHONDRITE	B	A	26,23	6(1
ALHA81027	3835.3	L-6 CHONDRITE	C	A/B	26,23	6(1
ALHA81028	80.1	L-6 CHONDRITE	B	B		6(2
ALHA81029	153.0	L-6 CHONDRITE	C	A		6(2
ALHA81030	1851.6	L-3 CHONDRITE	B/C	B/C	26,23	6(1
ALHA81031	1594.9	L-3 CHONDRITE	C	B/C	26,23	6(1
ALHA81032	726.8	L-3 CHONDRITE	C	A	26,23	6(1
ALHA81033	252.4	H-5 CHONDRITE	C	C	26,23	6(1
ALHA81034	254.9	H-5 CHONDRITE	B	B	26,23	6(1
ALHA81035	256.1	H-6 CHONDRITE	C	A/B	26,23	6(1
ALHA81036	252.1	H-5 CHONDRITE	C	A	26,23	6(1
ALHA81037	320.3	H-6 CHONDRITE	B	A	26,23	6(1
ALHA81038	229.0	H-6 CHONDRITE	C	B	26,23	6(1
ALHA81039	205.9	H-5 CHONDRITE	A/B	B	26,23	6(1
ALHA81040	194.5	L-4 CHONDRITE	B/C	A	26,23	6(1
ALHA81041	728.8	H-4 CHONDRITE	C	C		6(2
ALHA81042	534.4	H-5 CHONDRITE	C	C	26,23	6(1, 6(2
ALHA81043	106.0	H-4 CHONDRITE	B/C	C		
ALHA81044	386.8	H-4 CHONDRITE	C	C	26,23	6(1, 6(2
ALHA81045	90.2	H-4 CHONDRITE	C	B/C		6(2)
ALHA81046	16.6	H-4 CHONDRITE	C	B/C		6(2)
ALHA81047	81.9	H-4 CHONDRITE	B/C	B/C		6(2)
ALHA81048	190.6	H-4 CHONDRITE	B/C	B/C	26,23	6(1), 6(2)
ALHA81049	8.5	H-4 CHONDRITE	B/C	B		6(2)
ALHA81050	25.7	H-4 CHONDRITE	C	C		6(2)
ALHA81051	43.0	H-4 CHONDRITE	B/C	B		6(2)
ALHA81052	28.7	H-4 CHONDRITE	C	B		6(2)
ALHA81053	2.5	L-3 CHONDRITE	C	B		6(2)
ALHA81054	2.2	H-6 CHONDRITE	B	B		6(2)
ALHA81055	4.6	H-6 CHONDRITE	B	A		6(2)
ALHA81056	1.4	H-4 CHONDRITE	B	A		6(2)
ALHA81057	8.4	H-4 CHONDRITE	B	A		6(2)
ALHA81058	66.2	H-4 CHONDRITE	C	C		6(2)
ALHA81059	539.5	MESOSIDERITE	C	B/C	26,49	6(1)
ALHA81060	28.3	L-3 CHONDRITE	C	B		6(2)
ALHA81061	23.7	L-3 CHONDRITE	B/C	A		6(2)
ALHA81062	0.5	H-5 CHONDRITE	C	A		6(2)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTER
ALHA81063	4.9	H-5 CHONDRITE	B/C	B		6(2)
ALHA81064	191.0	H-5 CHONDRITE	C	A/B		6(2)
ALHA81065	13.1	L-3 CHONDRITE	B/C	B		6(2)
ALHA81066	8.7	L-3 CHONDRITE	C	B		6(2)
ALHA81067	227.6	H-5 CHONDRITE	C	B	26,23	6(1)
ALHA81068	23.7	H-4 CHONDRITE	B	A		6(2)
ALHA81069	7.2	L-3 CHONDRITE	B/C	A		6(2)
ALHA81070	3.7	H-5 CHONDRITE	B/C	A		6(2)
ALHA81071	2.5	H-5 CHONDRITE	B	A		6(2)
ALHA81072	3.2	H-5 CHONDRITE	B/C	A		6(2)
ALHA81073	3.3	H-4 CHONDRITE	B/C	A		6(2)
ALHA81074	8.0	H-4 CHONDRITE	B	B		6(2)
ALHA81075	15.7	H-5 CHONDRITE	B	A		6(2)
ALHA81076	10.3	H-6 CHONDRITE	B	A		6(2)
ALHA81077	4.2	H-5 CHONDRITE	B	A		6(2)
ALHA81078	5.9	H-6 CHONDRITE	B/C	B		6(2)
ALHA81079	7.5	H-6 CHONDRITE	C	A		6(2)
ALHA81080	16.7	H-5 CHONDRITE	A/B	A		6(2)
ALHA81081	5.0	H-5 CHONDRITE	B	A		6(2)
ALHA81082	5.9	H-5 CHONDRITE	B	A		6(2)
ALHA81083	6.6	H-5 CHONDRITE	B	A		6(2)
ALHA81084	15.7	H-5 CHONDRITE	B	A		6(2)
ALHA81085	16.2	L-3 CHONDRITE	C	B		6(2)
ALHA81086	5.7	H-6 CHONDRITE	B	B		6(2)
ALHA81087	8.4	L-3 CHONDRITE	B/C	B		6(2)
ALHA81088	3.8	H-5 CHONDRITE	B	A		6(2)
ALHA81089	11.2	H-5 CHONDRITE	B	A		6(2)
ALHA81090	9.5	H-5 CHONDRITE	B	A		6(2)
ALHA81091	12.2	H-5 CHONDRITE	B	B		6(2)
ALHA81092	15.6	H-4 CHONDRITE	B	A		6(2)
ALHA81093	271.0	H-6 CHONDRITE	A/B	A/B	26,23	6(1)
ALHA81094	152.0	H-6 CHONDRITE	C	B		6(2)
ALHA81095	58.8	H-4 CHONDRITE	B/C	C		6(2)
ALHA81096	83.0	H-6 CHONDRITE	B	B		6(2)
ALHA81097	79.9	H-4 CHONDRITE	B	A		6(2)
ALHA81098	70.9	MESOSIDERITE	C	B/C	26,49	6(2)
ALHA81099	151.6	L-6 CHONDRITE	A/B	A		6(2)
ALHA81100	154.6	H-5 CHONDRITE	B	A		6(2)
ALHA81101	119.2	UREILITE	A/B	B	26,23	6(2)
ALHA81102	196.0	H-6 CHONDRITE	B/C	A/B	26,23	6(1)
ALHA81103	136.1	H-6 CHONDRITE	B/C	B/C		6(2)
ALHA81104	183.8	H-4 CHONDRITE	C	C		6(2)
ALHA81105	92.7	H-4 CHONDRITE	C	B/C		6(2)
ALHA81106	48.3	L-6 CHONDRITE	B	B		6(2)
ALHA81107	139.6	L-6 CHONDRITE	B	A		6(2)
ALHA81108	69.1	H-5 CHONDRITE	B	B		6(2)
ALHA81109	1.1	H-4 CHONDRITE	B	A		6(2)
ALHA81110	3.0	H-5 CHONDRITE	B/C	A		6(2)
ALHA81111	210.3	H-6 CHONDRITE	B/C	B	26,23	6(1)
ALHA81112	150.3	H-6 CHONDRITE	B/C	A		6(2)
ALHA81113	111.1	H-5 CHONDRITE	B/C	C		6(2)
ALHA81114	79.3	H-4 CHONDRITE	B/C	B/C		6(2)
ALHA81115	154.9	H-5 CHONDRITE	C	A/B		6(2)
ALHA81116	1.7	H-5 CHONDRITE	B	A		6(2)
ALHA81117	32.9	H-4 CHONDRITE	B	B/C		6(2)
ALHA81118	84.7	H-5 CHONDRITE	B/C	A		6(2)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN NEWSLETT
ALHA81119	107.4	L-4 CHONDRITE	B	B	6(2)
ALHA81120	13.8	H-5 CHONDRITE	B/C	B	6(2)
ALHA81121	88.4	L-3 CHONDRITE	B	B	6(2)
ALHA81122	20.9	L-6 CHONDRITE	B	B	6(2)
ALHA81123	2.0	LL-6 CHONDRITE	B	A	6(2)
ALHA81124	9.3	H-5 CHONDRITE	B	A	6(2)
ALHA81125	10.2	H-5 CHONDRITE	B	A	6(2)
ALHA81126	21.5	H-5 CHONDRITE	B	A	6(2)
ALHA81127	15.4	H-6 CHONDRITE	B/C	B	6(2)
ALHA81128	15.9	H-5 CHONDRITE	B/C	A	7(1)
ALHA81129	31.6	H-5 CHONDRITE	A/B	A	7(1)
ALHA81130	29.9	H-5 CHONDRITE	B	B	7(1)
ALHA81131	12.9	L-6 CHONDRITE	A/B	B	7(1)
ALHA81132	5.4	H-5 CHONDRITE	B	A	7(1)
ALHA81133	20.7	H-5 CHONDRITE	B	A	7(1)
ALHA81134	15.4	H-6 CHONDRITE	B/C	B	7(1)
ALHA81135	9.5	H-5 CHONDRITE	B	A	7(1)
ALHA81136	1.2	H-5 CHONDRITE	B	A/B	6(2)
ALHA81137	9.4	H-6 CHONDRITE	B/C	A/B	7(1)
ALHA81138	4.3	H-5 CHONDRITE	B	A	7(1)
ALHA81139	7.1	H-5 CHONDRITE	B/C	B	7(1)
ALHA81140	14.4	H-4 CHONDRITE	B/C	A	7(1)
ALHA81141	1.5	H-5 CHONDRITE	B/C	B	7(1)
ALHA81142	1.2	H-4 CHONDRITE	B/C	B/C	7(1)
ALHA81143	12.5	H-5 CHONDRITE	B/C	A	7(1)
ALHA81144	3.0	H-5 CHONDRITE	B	A	7(1)
ALHA81145	21.1	L-3 CHONDRITE	B	B	7(1)
ALHA81146	23.8	H-6 CHONDRITE	C	B	7(1)
ALHA81147	1.7	H-4 CHONDRITE	B	A	7(1)
ALHA81148	13.3	H-5 CHONDRITE	B	A	7(1)
ALHA81149	8.8	H-4 CHONDRITE	B	B	7(1)
ALHA81150	1.9	L-6 CHONDRITE	C	A	7(1)
ALHA81151	5.1	LL-5 CHONDRITE	B/C	A	7(1)
ALHA81152	10.3	H-5 CHONDRITE	B	A	7(1)
ALHA81153	4.2	L-5 CHONDRITE	B	A	6(2)
ALHA81154	1.1	H-6 CHONDRITE	B	B	6(2)
ALHA81155	4.5	H-5 CHONDRITE	A/B	A	7(1)
ALHA81156	19.7	L-3 CHONDRITE	B/C	B/C	7(1)
ALHA81157	11.8	H-4 CHONDRITE	B/C	B	7(1)
ALHA81158	2.4	H-5 CHONDRITE	B/C	A	6(2)
ALHA81159	10.3	L-6 CHONDRITE	B/C	A	7(1)
ALHA81160	11.7	H-6 CHONDRITE	C	B	7(1)
ALHA81161	122.2	H-5 CHONDRITE	C	C	7(1)
ALHA81162	59.4	L-3 CHONDRITE	C	C	7(1)
ALHA81163	82.2	H-5 CHONDRITE	C	B/C	7(1)
ALHA81164	20.1	H-5 CHONDRITE	B	A	7(1)
ALHA81165	6.3	H-5 CHONDRITE	B	A	7(1)
ALHA81166	26.3	H-5 CHONDRITE	B	A	7(1)
ALHA81167	58.5	L-6 CHONDRITE	B/C	B	7(1)
ALHA81168	8.2	H-5 CHONDRITE	C	B	7(1)
ALHA81169	5.6	H-5 CHONDRITE	B	B	7(1)
ALHA81170	59.0	H-5 CHONDRITE	B	A/B	7(1)
ALHA81171	23.7	H-5 CHONDRITE	B/C	B	7(1)
ALHA81172	33.4	L-6 CHONDRITE	C	B	7(1)
ALHA81173	25.8	H-5 CHONDRITE	A/B	A	7(1)
ALHA81174	33.3	H CHONDRITE	B	B/C	7(1)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN NEWSLETTER
ALHA81175	13.2	H-5 CHONDRITE	A/B	B	7(1)
ALHA81176	94.5	H-5 CHONDRITE	B	A	7(1)
ALHA81177	17.3	H-4 CHONDRITE	B/C	B	7(1)
ALHA81178	29.9	H-5 CHONDRITE	B/C	B/C	7(1)
ALHA81179	13.7	H-5 CHONDRITE	B	A	7(1)
ALHA81180	16.6	H-6 CHONDRITE	C	B	7(2)
ALHA81181	15.0	L-6 CHONDRITE	B	A	7(2)
ALHA81182	4.6	H-5 CHONDRITE	B	A/B	7(2)
ALHA81183	104.2	H-5 CHONDRITE	C	B/C	7(2)
ALHA81184	16.7	L-4 CHONDRITE	A/B	A	7(2)
ALHA81185	64.9	LL-6 CHONDRITE	A/B	A/B	7(2)
ALHA81186	22.7	H-5 CHONDRITE	B	A/B	7(2)
ALHA81187	40.0	ACHON. (UNIQUE)	B/C	B	7(2)
ALHA81188	8.7	H-5 CHONDRITE	A/B	A	7(2)
ALHA81189	2.6	E-4 CHONDRITE	C	B	7(2)
ALHA81190	48.3	L-3 CHONDRITE	C	A/B	7(2)
ALHA81191	30.4	L-3 CHONDRITE	C	B/C	7(2)
ALHA81192	8.9	H-5 CHONDRITE	A/B	A	7(2)
ALHA81193	13.4	H-6 CHONDRITE	B	A	7(2)
ALHA81194	17.0	H-5 CHONDRITE	B	B	7(2)
ALHA81195	4.9	H-5 CHONDRITE	B	A/B	7(2)
ALHA81196	9.4	H-6 CHONDRITE	B	A	7(2)
ALHA81197	67.7	H-5 CHONDRITE	B/C	B/C	7(2)
ALHA81198	0.9	L-5 CHONDRITE	B/C	A	7(2)
ALHA81199	16.0	H-4 CHONDRITE	C	B	7(2)
ALHA81200	9.5	H-4 CHONDRITE	B/C	A	7(2)
ALHA81201	6.5	H-5 CHONDRITE	B/C	A	7(2)
ALHA81202	5.4	H-5 CHONDRITE	C	A	7(2)
ALHA81203	3.8	L-6 CHONDRITE	C	A	7(2)
ALHA81204	7.3	H-6 CHONDRITE	B	A	7(2)
ALHA81205	2.8	L-6 CHONDRITE	B	A	7(2)
ALHA81206	3.8	H-4 CHONDRITE	B/C	A	7(2)
ALHA81207	14.1	H-5 CHONDRITE	C	B	7(2)
ALHA81208	1.6	DIOGENITE/MESOSIDERITE	C	B	7(2)
ALHA81209	13.9	H-5 CHONDRITE	B/C	A	7(2)
ALHA81210	0.6	H-6 CHONDRITE	B	A	8(1)
ALHA81211	7.2	H-5 CHONDRITE	B	A	8(1)
ALHA81212	11.5	H-4 CHONDRITE	B/C	B	8(1)
ALHA81213	2.9	H-5 CHONDRITE	B/C	A	7(2)
ALHA81214	4.4	L-3 CHONDRITE	B/C	A	7(2)
ALHA81215	11.2	H-5 CHONDRITE	A	A	7(2)
ALHA81216	2.4	H-5 CHONDRITE	C	A	8(1)
ALHA81217	5.4	L-6 CHONDRITE	C	B/C	7(2)
ALHA81218	5.5	H-5 CHONDRITE	C	B	7(2)
ALHA81219	24.4	H-5 CHONDRITE	B	A	8(1)
ALHA81220	3.5	H-5 CHONDRITE	B/C	A/B	8(1)
ALHA81221	9.2	L-6 CHONDRITE	C	A/B	8(1)
ALHA81223	9.5	H-6 CHONDRITE	A/B	A	8(1)
ALHA81224	13.6	H-6 CHONDRITE	B/C	A	8(1)
ALHA81225	13.9	H-6 CHONDRITE	B	A	8(1)
ALHA81226	2.9	H-5 CHONDRITE	C	A	8(1)
ALHA81227	11.3	H-5 CHONDRITE	B	B	8(1)
ALHA81228	7.7	H-5 CHONDRITE	B/C	A	8(1)
ALHA81229	40.0	L-3 CHONDRITE	C	B/C	8(1)
ALHA81230	12.5	H-5 CHONDRITE	B	B	8(1)
ALHA81231	9.2	H-4 CHONDRITE	B/C	B	8(1)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN	NEWSLETTE
ALHA81232	4.6	H-5 CHONDRITE	B	A/B		8(1)
ALHA81233	25.0	H-5 CHONDRITE	C	B/C		8(1)
ALHA81234	4.7	H-4 CHONDRITE	C	A		8(1)
ALHA81235	6.7	L-6 CHONDRITE	C	B		8(1)
ALHA81236	40.9	H-5 CHONDRITE	A/B	A/B		8(1)
ALHA81237	26.9	H-5 CHONDRITE	B	B		8(1)
ALHA81238	24.1	H-5 CHONDRITE	C	B		8(1)
ALHA81239	31.6	H-5 CHONDRITE	B	B		8(1)
ALHA81240	41.3	H-5 CHONDRITE	C	C		8(1)
ALHA81241	34.2	H-5 CHONDRITE	B	A/B		8(1)
ALHA81242	19.9	H-5 CHONDRITE	B/C	A		8(1)
ALHA81243	15.0	L-3 CHONDRITE	C	B		8(1)
ALHA81244	4.6	H-5 CHONDRITE	B	A		8(1)
ALHA81245	3.8	H-5 CHONDRITE	B/C	A/B		8(1)
ALHA81246	3.4	H-5 CHONDRITE	C	A		8(1)
ALHA81247	104.2	L-6 CHONDRITE	A/B	B		8(1)
ALHA81248	4.9	H-6 CHONDRITE	C	A/B		8(1)
ALHA81249	10.4	H-5 CHONDRITE	B/C	A		8(1)
ALHA81250	16.9	H-6 CHONDRITE	B	B		8(1)
ALHA81251	158.0	LL-3 CHONDRITE	B/C	B	26,23	6(1)
						6(2)
ALHA81252	2.1	H-5 CHONDRITE	B	A		8(1)
ALHA81253	10.2	H-6 CHONDRITE	A/B	B		8(1)
ALHA81254	8.6	H-6 CHONDRITE	C	A		8(1)
ALHA81255	11.5	H-5 CHONDRITE	B	B		8(1)
ALHA81256	28.5	H-5 CHONDRITE	C	A		8(1)
ALHA81257	28.7	L-6 CHONDRITE	B	A		8(1)
ALHA81258	1.1	CARBONACEOUS C3V	B	A/B		8(1)
ALHA81259	9.9	L-3 CHONDRITE	C	B		8(1)
ALHA81260	124.1	E-6 CHONDRITE	A/B	A/B		8(1)
ALHA81261	11.8	H(?) CHONDRITE	A/B	A		8(1)
ALHA81262	55.5	L-6 CHONDRITE	A/B	B		8(1)
ALHA81263	6.0	H-5 CHONDRITE	B	B		8(1)
ALHA81265	7.5	H-5 CHONDRITE	B/C	A		8(1)
ALHA81266	12.3	L-6 CHONDRITE	A/B	B		8(1)
ALHA81267	26.8	H-4 CHONDRITE	C	B/C		8(1)
ALHA81268	17.9	H-6 CHONDRITE	C	B/C		8(1)
ALHA81269	4.7	H-5 CHONDRITE	B/C	A		8(1)
ALHA81270	3.8	H-5 CHONDRITE	C	A/B		8(1)
ALHA81271	27.6	H-6 CHONDRITE	B	B		8(1)
ALHA81272	22.9	L-3 CHONDRITE	C	B		8(1)
ALHA81273	42.8	H-6 CHONDRITE	C	B/C		8(1)
ALHA81274	18.5	H-5 CHONDRITE	A/B	A		8(1)
ALHA81275	11.1	H-5 CHONDRITE	B	A		8(1)
ALHA81276	42.3	H-5 CHONDRITE	C	B		8(1)
ALHA81277	6.6	H-5 CHONDRITE	B	A		8(1)
ALHA81278	1.1	L-6 CHONDRITE	B	A		8(1)
ALHA81279	27.1	H-4 CHONDRITE	C	B/C		8(1)
ALHA81280	54.9	L-3 CHONDRITE	C	B		8(1)
ALHA81281	45.6	H-5 CHONDRITE	B	B		8(1)
ALHA81282	31.1	L-6 CHONDRITE	A/B	A		8(1)
ALHA81283	0.6	H-5 CHONDRITE	B/C	A		8(1)
ALHA81284	9.9	H-5 CHONDRITE	B/C	A		8(1)
ALHA81285	20.0	LL-6 CHONDRITE	C	A		8(1)
ALHA81286	27.9	H-5 CHONDRITE	B	B		8(1)
ALHA81287	77.6	H-5 CHONDRITE	C	B/C		8(1)

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ALHA81288	19.8	H-6 CHONDRITE	B	A	8(1)
ALHA81289	4.2	L-6 CHONDRITE	A	A	8(1)
ALHA81290	1.5	H-4 CHONDRITE	B	A	8(1)
ALHA81291	3.9	H-6 CHONDRITE	B	A	8(1)
ALHA81292	12.9	L-3 CHONDRITE	C	A/B	8(1)
ALHA81293	2.0	H-5 CHONDRITE	B	A/B	8(1)
ALHA81294	8.6	H-5 CHONDRITE	B	A	8(1)
ALHA81295	105.1	H-5 CHONDRITE	C	B/C	8(1)
ALHA81296	12.7	H-5 CHONDRITE	B/C	B	8(1)
ALHA81297	20.1	H-5 CHONDRITE	B	A	8(1)
ALHA81298	16.2	H-6 CHONDRITE	B	B	8(1)
ALHA81299	0.5	L-3 CHONDRITE	C	A/B	8(1)
ALHA81300	10.3	H-5 CHONDRITE	A/B	A	8(1)
ALHA81301	12.5	H-5 CHONDRITE	B/C	A	8(1)
ALHA81302	4.2	H-5 CHONDRITE	B/C	A	8(1)
ALHA81303	3.7	H-6 CHONDRITE	B/C	A	8(1)
ALHA81304	42.1	L-6 CHONDRITE	A/B	B	8(1)
ALHA81305	1.1	H-5 CHONDRITE	B/C	A	8(1)
ALHA81306	7.1	H-5 CHONDRITE	B	A	8(1)
ALHA81307	56.9	L-6 CHONDRITE	B	B/C	8(1)
ALHA81308	18.7	H-5 CHONDRITE	B/C	B	8(1)
ALHA81309	0.6	H-4 CHONDRITE	C	A	8(1)
ALHA81310	0.7	H-6 CHONDRITE	B	A	8(1)
ALHA81311	0.9	L-6 CHONDRITE	B	A	8(1)
ALHA81312	0.7	CARBONACEOUS C2	A	A	7(1)
ALHA81313	0.5	SHERGOTTITE (?)			8(1)
ALHA81314	2.9	H-5 CHONDRITE	B	A	8(1)
ALHA81315	2.5	H(?) CHONDRITE	A/B	A	8(1)
ALH 82100	24.3	CARBONACEOUS C2	A	A	6(2) 7(1)
ALH 82101	29.1	CARBONACEOUS C30	A	A/B	6(2) 7(1)
ALH 82102	48.1	H-5 CHONDRITE (IN ICE)	B/C	A	6(2) 7(1) 7(2)
ALH 82103	2529.2	H-5 CHONDRITE	B	B	7(1)
ALH 82104	398.8	L-5 CHONDRITE	A	A/B	7(1)
ALH 82105	363.3	L-6 CHONDRITE	A/B	A	7(1)
ALH 82106	35.1	UREILITE	B	A	7(2)
ALH 82107	9.2	L-5 CHONDRITE	B/C	A	7(2)
ALH 82108	13.5	H-5 CHONDRITE	B/C	A	7(2)
ALH 82109	47.2	H-5 CHONDRITE	B/C	A/B	7(2)
ALH 82110	39.3	H-3 CHONDRITE	B/C	B	7(2)
ALH 82111	63.0	L-6 CHONDRITE	A/B	A	7(2)
ALH 82112	28.3	H-5 CHONDRITE	C	A	7(2)
ALH 82113	61.2	H-6 CHONDRITE	A/B	A	7(2)
ALH 82114	40.7	H-5 CHONDRITE	A/B	A	7(2)
ALH 82115	48.5	H-5 CHONDRITE	A/B	A	7(2)
ALH 82116	18.4	H-6 CHONDRITE	B	B	7(2)
ALH 82117	4.2	L-5 CHONDRITE	B	B	7(2)
ALH 82118	110.9	L-6 CHONDRITE	A/B	B	7(2)
ALH 82119	23.9	H-5 CHONDRITE	B/C	B	7(2)
ALH 82120	7.2	H-5 CHONDRITE	B	A	7(2)
ALH 82121	2.4	L-6 CHONDRITE	A	B	7(2)
ALH 82122	142.0	H-5 CHONDRITE	B	A	7(2)
ALH 82123	110.8	L-6 CHONDRITE	B	A	7(2)

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ALH 82124	25.8	H-6 CHONDRITE	C	A/B		7(2)
ALH 82125	178.4	L-6 CHONDRITE	C	B		7(2)
ALH 82126	139.9	H-4 CHONDRITE	B/C	A		7(2)
ALH 82127	5.1	H-6 CHONDRITE	A/B	A		7(2)
ALH 82128	15.2	H-4 CHONDRITE	B/C	A		7(2)
ALH 82129	14.1	H-5 CHONDRITE	B/C	A		7(2)
ALH 82130	44.6	UREILITE	B	A		7(2)
ALH 82131	1.0	CARBONACEOUS C2	A	B		7(2)
ALH 82132	5.9	E-4 CHONDRITE	C	B/C		7(2)
ALH 82133	19.7	H-4 CHONDRITE	B/C	A/B		7(2)
ALH 82134	28.2	H-5 CHONDRITE	B/C	A		7(2)
ALH 82135	12.1	CARBONACEOUS C4	A	A		7(2)
ALH 82136	4.3	H-4 CHONDRITE	B	B		7(2)
ALH 82137	10.8	L-5 CHONDRITE	B	A		7(2)
ALH 82138	5.0	H-6 CHONDRITE	B	A/B		7(2)
ALH 82139	0.2	L-6 CHONDRITE	B	A		7(2)
ALH 82140	0.3	L-6 CHONDRITE	C	A		7(2)
ALH 82141	0.6	H-5 CHONDRITE	C	A		7(2)
ALH 82142	20.0	L-6 CHONDRITE	C	B/C		7(2)
ALH 82143	3.5	H-6 CHONDRITE	C	A/B		7(2)
ALH 82144	7.3	H-5 CHONDRITE	B	A		7(2)
ALH 83001	1568.6	L-4 CHONDRITE	B	A		8(1)
ALH 83009	1.7	AUBRITE	A/B	A		8(1)
ALH 83010	395.2	L-3 CHONDRITE	B	A		8(1)
ALH 83014	1.3	UREILITE	B	A		8(1)
ALH 83015	3.1	AUBRITE (?)	A/B	A		8(1)
ALH 83016	4.1	CARBONACEOUS C2	A/B	B/C		8(1)
ALH 83100	862.6	CARBONACEOUS C2	B	B/C		7(1)
ALH 83101	639.2	L-6 CHONDRITE	A	A		8(1)
ALH 83102	1240.8	CARBONACEOUS C2	B/C	C		8(1)
ALH 84001	1930.9	DIOGENITE	A/B	B		8(2)
ALH 84004	9000.0	H-4 CHONDRITE	B	B		8(2)
ALH 84006	16000.0	H-4,5 CHONDRITE	B/C	B		8(2)
ALH 84007	705.6	AUBRITE	A	A/B		8(2)
ALH 84008	301.6	AUBRITE	A/B	A		8(2)
ALH 84011	138.2	AUBRITE	A	A/B		8(2)
ALH 84025	4.6	ACHON. (UNIQUE)	A/B	A		8(2)
ALH 84027	8.0	LL-7(?) CHONDRITE	B	B		8(2)
ALH 84028	735.9	CARBONACEOUS C3V	A	A		8(2)
ALH 84029	119.8	CARBONACEOUS C2	A	B		8(2)
ALH 84030	6.2	CARBONACEOUS C2	A	B/C		8(2)
ALH 84031	12.5	CARBONACEOUS C2	A	B		8(2)
ALH 84032	7.9	CARBONACEOUS C2	A	A		8(2)
ALH 84033	60.4	CARBONACEOUS C2	A	B		8(2)
ALH 84034	44.1	CARBONACEOUS C2	A	A		8(2)
ALH 84042	51.3	CARBONACEOUS C2	A	B		8(2)
ALH 84044	147.4	CARBONACEOUS C2	A	B		8(2)
BTNA78001	160.7	L-6 CHONDRITE	B	B	24,19	3(2) 4(1)
BTNA78002	4301.0	L-6 CHONDRITE	B	A	24,19	3(1) 4(1)
BTNA78004	1079.0	LL-6 CHON.(BRECCIATED)	B	A	24,19	3(1) 4(1)
DRPA78001	15200.0	IRON-GROUP IIB				2(1) 4(1)
DRPA78002	7188.0	IRON-GROUP IIB			24,19	2(1) 4(1)

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DRPA78003	144.2	IRON-GROUP IIB				2(1)
						4(1)
DRPA78004	133.6	IRON-GROUP IIB			24,19	2(1)
						4(1)
DRPA78005	18600.0	IRON-GROUP IIB			24,19	2(1)
						4(1)
DRPA78006	389.3	IRON-GROUP IIB			24,19	2(1)
						4(1)
DRPA78007	11800.0	IRON-GROUP IIB				2(1)
						3(1)
						4(1)
DRPA78008	59400.0	IRON-GROUP IIB			24,19	2(1)
						3(1)
						4(1)
DRPA78009	138100.0	IRON-GROUP IIB			24,19	2(1)
						4(1)
EETA79001	7942.0	SHERGOTTITE	A	A	24,19	3(3)
						4(1)
EETA79002	2843.0	DIOGENITE	B	B	24,19	3(3)
						4(1)
EETA79003	435.6	L-6 CHONDRITE	B	B	24,19	4(1)
EETA79004	390.3	EUCRITE	B	B	24,19	3(3)
						4(1)
EETA79005	450.9	EUCRITE (POLYMICT)	A	B	24,19	3(3)
						4(1)
EETA79006	716.4	HOWARDITE	B	B	24,19	3(3)
						4(1)
						4(2)
EETA79007	199.9	H-5 CHONDRITE	B	B	24,19	4(1)
EETA79009	140.3	L-5 CHONDRITE	B	B	24,19	4(1)
EETA79010	287.3	L-6 CHONDRITE	B	C	24,19	4(1)
EETA79011	86.4	EUCRITE (POLYMICT)	B	B	24,19	3(3)
						4(1)
EET 82600	247.1	HOWARDITE	A	B		6(2)
						7(1)
EET 82601	149.5	L-3 CHONDRITE	B/C	A		7(2)
EET 82602	1824.1	H-4 CHONDRITE	B	B		7(1)
EET 82603	8210.0	H-5 CHONDRITE	B	A		7(1)
EET 82604	1570.6	H-5 CHONDRITE	B/C	B		7(1)
EET 82605	624.6	L-6 CHONDRITE	B	A		7(1)
EET 82606	981.9	L-6 CHONDRITE	B	B		7(1)
EET 82607	165.3	L-6 CHONDRITE	B/C	A		7(1)
EET 82608	94.5	LL-6 CHONDRITE	A/B	A		7(2)
EET 82609	325.5	H-4 CHONDRITE	B/C	A/B		7(1)
EET 82610	42.1	H-6 CHONDRITE	B	A		7(2)
EET 82611	12.6	L-4 CHONDRITE	B	B		7(2)
EET 82612	31.6	L-6 CHONDRITE	A	A		7(2)
EET 82613	4.2	L-4 CHONDRITE	B	A		7(2)
EET 82614	8.4	H-5 CHONDRITE	A/B	A		7(2)
EET 82615	29.3	H-6 CHONDRITE	B	A		7(2)
EET 82616	2.1	H-4 CHONDRITE	B/C	A		7(2)
EET 83200	778.8	H-5 CHONDRITE	B/C	B		8(1)
EET 83201	1059.8	H-6 CHONDRITE	B/C	A		8(1)
EET 83202	1213.2	L-6 CHONDRITE	A/B	B		8(1)
EET 83203	545.6	H-5 CHONDRITE	B/C	B/C		8(1)

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EET 83204	376.6	LL-6 CHONDRITE	A	A		8(1)
EET 83205	470.8	L-6 CHONDRITE	A/B	B		8(1)
EET 83206	461.9	L-6 CHONDRITE	B	A		8(1)
EET 83207	1238.3	H-4 CHONDRITE	B	B		8(1)
EET 83208	263.0	H-5 CHONDRITE	B/C	B		8(1)
EET 83209	520.0	L-6 CHONDRITE	B/C	A		8(1)
EET 83210	425.6	L-6 CHONDRITE	A/B	B		8(1)
EET 83211	542.7	H-4 CHONDRITE	B/C	B/C		8(1)
EET 83212	402.1	EUCRITE (POLYMICT)	B	B		8(1)
EET 83213	2727.0	L-3 CHONDRITE	B	A		8(1)
EET 83214	1397.5	L-6 CHONDRITE	B	A		8(1)
EET 83215	510.4	H-6 CHONDRITE	B/C	C		8(1)
EET 83224	8.6	CARBONACEOUS C2	A/B	B		8(1)
EET 83225	44.0	UREILITE	B/C	B		8(1)
EET 83226	33.1	CARBONACEOUS C2	A/B	B		8(1)
EET 83227	1973.0	EUCRITE (POLYMICT)	B	B		8(1)
EET 83228	1206.0	EUCRITE (POLYMICT)	B	B		8(1)
EET 83229	312.9	EUCRITE (POLYMICT)	B	B		8(1)
EET 83230	530.0	IRON-ATAXITE				7(2)
EET 83231	66.4	EUCRITE (POLYMICT)	B	A/C		8(1)
EET 83232	211.2	EUCRITE (POLYMICT)	B	A/B		8(1)
EET 83234	180.6	EUCRITE (POLYMICT)	B	B		8(1)
EET 83235	254.6	BASALTIC ACHON.	B	B		8(1)
EET 83236	6.4	EUCRITE	B	A		8(1)
EET 83237	882.7	L-6 CHONDRITE	B	A/B		8(1)
EET 83245	59.0	IRON-OCTAHEDRITE				7(2)
EET 83246	48.3	DIOGENITE	A/B	A/B		8(1)
EET 83247	22.5	DIOGENITE	B/C	B		8(1)
						8(2)
EET 83250	11.5	CARBONACEOUS C2	B	C		8(1)
EET 83251	261.4	EUCRITE (POLYMICT)	B	A/B		8(1)
EET 83283	57.3	EUCRITE (POLYMICT)	B	B		8(1)
ILD 83500	2523.0	IRON-ATAXITE				7(2)
MBRA76001	1096.0	H-6 CHONDRITE	B	B	23,12	1(3)
						4(1)
MBRA76002	13773.0	H-6 CHONDRITE	B	B		
META78001	624.4	H-4 CHONDRITE	B/C	B	24,19	3(1)
						4(1)
META78002	542.2	L-6 CHONDRITE	B	A	24,19	3(1)
						4(1)
META78003	1726.0	L-6 CHONDRITE	B	B	24,19	3(2)
						4(1)
META78005	172.0	L-6 CHONDRITE	B	B	24,19	3(2)
						4(1)
META78006	409.6	H-6 CHONDRITE	C	B	24,19	3(1)
						4(1)
META78007	174.8	H-6 CHONDRITE	B/C	B	24,19	3(1)
						3(3)
						4(1)
META78010	233.5	H-5 CHONDRITE	B	A	24,19	3(2)
						4(1)
META78028	20657.0	L-6 CHONDRITE	B	B		3(1)
						3(2)
						4(1)
OTTA80301	35.5	H-3 CHONDRITE	B/C	B	26,23	5(1)

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PCA 82500	90.9	CARBONACEOUS C4	B	C		6(2) 7(1) 7(2)
PCA 82501	54.4	EUCRITE (UNBRECCIATED)	A	A		6(2) 7(1)
PCA 82502	890.4	EUCRITE (UNBRECCIATED)	A	A		6(2) 7(1)
PCA 82503	8308.0	L-6 CHONDRITE	A	B		7(1)
PCA 82504	3093.6	L-5 CHONDRITE	A/B	B		7(1)
PCA 82505	3085.5	L-5 CHONDRITE	B	B		7(1)
PCA 82506	5316.0	UREILITE	A/B	A		7(1)
PCA 82507	479.8	LL-6 CHONDRITE	A	A/B		7(1)
PCA 82508	389.3	L-6 CHONDRITE	A/B	B		7(1)
PCA 82509	285.6	L-6 CHONDRITE	B	A		7(1)
PCA 82510	254.2	L-5 CHONDRITE	A	A		7(1)
PCA 82511	149.0	H-4 CHONDRITE	B	B		7(2)
PCA 82512	55.2	H-6 CHONDRITE	B	A		7(2)
PCA 82513	239.1	L-5 CHONDRITE	A/B	A		7(1)
PCA 82514	129.8	L-4 CHONDRITE	B	A		7(2)
PCA 82515	6.9	H-4 CHONDRITE	B	A/B		7(2)
PCA 82516	16.0	H-6 CHONDRITE	B/C	B		7(2)
PCA 82517	41.3	H-5 CHONDRITE	B/C	B		7(2)
PCA 82518	21.9	E-4 CHONDRITE	B	A		7(2)
PCA 82519	125.0	L-5 CHONDRITE	B	A		7(2)
PCA 82520	22.7	H-3 CHONDRITE	B/C	A/B		7(2)
PCA 82521	1.4	H-5 CHONDRITE	C	A		7(2)
PCA 82522	45.5	H-5 CHONDRITE	B/C	B		7(2)
PCA 82523	11.5	H-6 CHONDRITE	A	B		7(2)
PCA 82524	113.8	H-4 CHONDRITE	A/B	B		7(2)
PCA 82525	40.2	L-6 CHONDRITE	B	B		7(2)
PCA 82526	24.9	H-6 CHONDRITE	B	A		7(2)
PCA 82527	3.4	H-6 CHONDRITE	A	A		7(2)
PCA 82528	51.4	L-6 CHONDRITE	B/C	B		7(2)
PGPA77006	19068.0	IRON-GROUP IA			23,12 24,49	3(2) 4(1)
RKPA78001	234.9	L-6 CHONDRITE	C	B	24,19	3(1) 4(1)
RKPA78002	8483.0	H-4 CHONDRITE	B	A/B	24,19	3(2) 4(1)
RKPA78003	1276.0	L-6 CHONDRITE	C	B	24,19	3(1) 4(1)
RKPA78004	166.9	H-4 CHONDRITE	A	A	24,19	3(1) 4(1)
RKPA79001	3006.0	L-6 CHONDRITE	B	C	24,19	4(1)
RKPA79002	203.6	L-6 CHONDRITE	B	B	24,19	4(1)
RKPA79003	182.2	H-6 CHONDRITE	B	A	24,19	4(1)
RKPA79004	370.9	H-5 CHONDRITE	B/C	B	24,19	4(1)
RKPA79008	73.0	L-3 CHONDRITE	B	B	24,19	4(1)
RKPA79009	54.7	H-6 CHONDRITE	C	B	24,19	4(1)
RKPA79012	12.8	H-6 CHONDRITE	B	B	24,19	4(1)
RKPA79013	11.0	L-5 CHONDRITE	B/C	B	24,19	4(1)
RKPA79014	77.7	H-5 CHONDRITE	B/C	B	24,19	4(1)
RKPA79015	10022.0	MESOSIDERITE	A/B	A	26,49	3(3) 4(1)
RKPA80201	813.0	H-6 CHONDRITE	B	A	26,23	4(2) 5(1)

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RKPA80202	544.5	L-6 CHONDRITE	B	A	26,23	4(2) 5(1)
RKPA80203	3.8	H-6 CHONDRITE	C	A		5(1)
RKPA80204	15.5	EUCRITE	A	A	26,23	4(2) 5(1)
RKPA80205	53.8	H-3 CHONDRITE	B	B	26,23	5(1)
RKPA80206	46.6	H-6 CHONDRITE	C	B		5(1)
RKPA80207	17.7	L-3 CHONDRITE	C	B	26,23	5(1)
RKPA80208	10.2	H-6 CHONDRITE	B	A		5(1)
RKPA80209	9.7	L-5 CHONDRITE	C	B	26,23	5(1)
RKPA80210	10.6	H-5 CHONDRITE	B/C	B		5(1)
RKPA80211	2.1	H-6 CHONDRITE	C	B		5(1)
RKPA80213	19.1	H-6 CHONDRITE	B/C	B		5(1)
RKPA80214	4.9	H-6 CHONDRITE	C	B		5(1)
RKPA80215	9.0	L-6 CHONDRITE	C	B	26,23	5(1)
RKPA80216	44.3	L-4 CHONDRITE	B	B	26,23	5(1)
RKPA80217	7.8	H-5 CHONDRITE	C	A		5(1)
RKPA80218	6.7	H-5 CHONDRITE	C	A		5(1)
RKPA80219	21.5	L-6 CHONDRITE	B	A		5(1)
RKPA80220	124.5	H-5 CHONDRITE	B/C	B/C	26,23	5(1)
RKPA80221	51.9	H-6 CHONDRITE	C	B/C		5(1)
RKPA80222	7.0	LL-6 CHONDRITE	B	B	26,23	5(1)
RKPA80223	25.1	H-5 CHONDRITE	C	B	26,23	5(1)
RKPA80224	8.0	EUCRITE (UNBRECCIATED)	A/B	A	26,23	4(2) 5(1)
RKPA80225	8.3	L-6 CHONDRITE	C	A		5(1)
RKPA80226	160.3	IRON-OCTAHEDRITE			26,49	5(1)
RKPA80227	7.7	H-5 CHONDRITE	B/C	A		5(1)
RKPA80228	11.1	L-5 CHONDRITE	C	B	26,23	5(1)
RKPA80229	14.1	MESOSIDERITE	C	B/C	26,49	5(1)
RKPA80230	58.2	H-5 CHONDRITE	B	B		5(1)
RKPA80231	238.1	H-6 CHONDRITE	C	B/C	26,23	4(2) 5(1)
RKPA80232	80.1	H-4 CHONDRITE	B	A	26,23	5(1)
RKPA80233	413.5	H-5 CHONDRITE	B/C	B	26,23	4(2) 5(1)
RKPA80234	136.2	LL-5 CHONDRITE	B	B	26,23	5(1)
RKPA80235	261.2	LL-6 CHONDRITE	A/B	B	26,23	4(2) 5(1)
RKPA80236	15.6	H-5 CHONDRITE	B/C	B		5(1)
RKPA80237	22.2	H-4 CHONDRITE	C	B	26,23	5(1)
RKPA80238	18.4	LL-6 CHONDRITE	A/B	A	26,23	5(1)
RKPA80239	5.6	UREILITE	B	B	26,23	5(1)
RKPA80240	61.4	H-5 CHONDRITE	C	A		5(1)
RKPA80241	0.6	CARBONACEOUS C3V	B	B	26,23	5(1)
RKPA80242	7.3	L-4 CHONDRITE	B/C	B	26,23	5(1)
RKPA80243	3.4	H-5 CHONDRITE	C	A		5(1)
RKPA80244	14.2	H-5 CHONDRITE	C	B		5(1)
RKPA80245	36.7	H-5 CHONDRITE	B/C	B		5(1)
RKPA80246	5.8	MESOSIDERITE	C	C	26,49	5(1)
RKPA80247	1.1	H-5 CHONDRITE	C	B		5(1)
RKPA80248	11.3	LL-6 CHONDRITE	A/B	A	26,23	5(1)
RKPA80249	9.7	H-5 CHONDRITE	B/C	A		5(1)
RKPA80250	3.9	H-5 CHONDRITE	B/C	A	26,23	5(1)
RKPA80251	29.1	H-5 CHONDRITE	B	B	26,23	5(1)
RKPA80252	11.2	L-6 CHONDRITE	A/B	A		5(1)
RKPA80253	4.6	LL-5 CHONDRITE	A/B	A	26,23	5(1)

SAMPLE NUMBER	WEIGHT (G)	CLASSIFICATION	WEATHERING	FRACTURING	SMITHSONIAN NEWSLETTER
RKPA80254	68.5	H-6 CHONDRITE	C	B/C	5(1)
RKPA80255	6.7	H-6 CHONDRITE	C	B	5(1)
RKPA80256	153.2	L-3 CHONDRITE	B	A	26,23 4(2) 5(1)
RKPA80257	8.5	H-5 CHONDRITE	B/C	B	5(1)
RKPA80258	4.3	MESOSIDERITE	B/C	B	26,49 5(1)
RKPA80259	20.2	E-5 CHONDRITE	B/C	B	26,23 5(1)
RKPA80260	7.5	H-5 CHONDRITE	C	B	5(1)
RKPA80261	61.6	L-6 CHONDRITE	B	A	5(1)
RKPA80262	32.1	H-6 CHONDRITE	C	B	5(1)
RKPA80263	16.7	MESOSIDERITE	C	B	26,49 5(1)
RKPA80264	23.9	L-6 CHONDRITE	B	B	5(1)
RKPA80265	7.8	H-6 CHONDRITE	C	B	5(1)
RKPA80266	9.8	H-6 CHONDRITE	B/C	B	5(1)
RKPA80267	24.2	H-4 CHONDRITE	C	A	26,23 5(1)
RKPA80268	3.4	L-5 CHONDRITE	B/C	B	26,23 5(1)
TIL 82400	220.8	L-5 CHONDRITE	A/B	B	7(1)
TIL 82401	281.6	L-6 CHONDRITE	A/B	A	7(1)
TIL 82402	476.0	LL-6 CHONDRITE	A/B	A	7(1)
TIL 82403	49.8	EUCRITE (BRECCIATED)	A	A	6(2) 7(1)
TIL 82404	321.6	L-4 CHONDRITE	B	B	7(1)
TIL 82405	1115.7	H-6 CHONDRITE	B	A	7(1)
TIL 82406	152.0	L-4 CHONDRITE	B	A	7(2)
TIL 82407	220.8	L-4 CHONDRITE	B/C	A	7(1)
TIL 82408	80.1	LL-3 CHONDRITE	B	A/B	7(2)
TIL 82409	230.9	H-5 CHONDRITE	B	A	7(1)
TIL 82410	18.8	DIOGENITE	A	B	7(2)
TIL 82411	179.5	L-4 CHONDRITE	A/B	A	7(1)
TIL 82412	35.2	H-5 CHONDRITE	C	B	7(2)
TIL 82413	18.4	H-5 CHONDRITE	C	B	7(2)
TIL 82414	15.4	H-5 CHONDRITE	B	A	7(2)
TIL 82415	70.2	H-5 CHONDRITE	A/B	A	7(2)
TYR 82700	892.1	L-4 CHONDRITE	B	A	7(1)

* NOTES TO TABLE 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, if not totally, converted to rust and the specimen is uniformly stained by rust throughout.

"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 of the specimen and can be readily broken along the cracks.
C: Severe cracks; specimen readily crumbles along cracks that are both extensive and abundant.

COMPREHENSIVE LISTING OF METEORITES OF SPECIAL PETROLOGIC TYPES

Achondrites

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA81187	40.0	ACHON. (UNIQUE)	B/C	B	4	6.5
ALH 84025	4.6	ACHON. (UNIQUE)	A/B	A	32-33	11
ALHA81005	31.4	ANORTHOSITIC BRECCIA	A/B	A	11-40	7-47
ALHA78113	298.6	AUBRITE	A/B	A		
ALH 83009	1.7	AUBRITE	A/B	A		
ALH 84007	705.6	AUBRITE	A	A/B		
ALH 84008	301.6	AUBRITE	A/B	A		
ALH 84011	138.2	AUBRITE	A	A/B		
ALH 83015	3.1	AUBRITE (?)	A/B	A		
EET 83235	254.6	BASALTIC ACHON.	B	B		
ALHA77256	676.2	DIOGENITE	A/B	A		23
ALH 84001	1930.9	DIOGENITE	A/B	B		27
EETA79002	2843.0	DIOGENITE	B	B	24-25	22
EET 83246	48.3	DIOGENITE	A/B	A/B		
EET 83247	22.5	DIOGENITE	B/C	B		
TIL 82410	18.8	DIOGENITE	A	B		24
ALHA81208	1.6	DIOGENITE/MESOSIDERITE	C	B		25
ALHA81009	229.0	EUCRITE	A	A		30-63
ALHA81012	36.7	EUCRITE	A/B	A		33-62
EETA79004	390.3	EUCRITE	B	B		30-61
EET 83236	6.4	EUCRITE	B	A		
RKPA80204	15.5	EUCRITE	A	A		52-57
ALHA81001	52.9	EUCRITE (ANOMALOUS)	A	B		59
TIL 82403	49.8	EUCRITE (BRECCIATED)	A	A		43-58
ALHA76005	317.3	EUCRITE (POLYMICT)	A	A		37-57
ALHA77302	235.5	EUCRITE (POLYMICT)	A	A		37-64
ALHA78040	211.7	EUCRITE (POLYMICT)	A	A		33-52
ALHA78132	656.0	EUCRITE (POLYMICT)	A	A		40-68
ALHA78158	15.1	EUCRITE (POLYMICT)	A	A		40-68
ALHA78165	20.9	EUCRITE (POLYMICT)	A	A		37-61
ALHA79017	310.0	EUCRITE (POLYMICT)	A	A		28-53
ALHA80102	471.2	EUCRITE (POLYMICT)	A	B		34-52
ALHA81006	254.9	EUCRITE (POLYMICT)	A	A/B		35-60
ALHA81007	163.5	EUCRITE (POLYMICT)	A/B	A		38-55
ALHA81008	43.8	EUCRITE (POLYMICT)	A/B	A/B		32-59
ALHA81010	219.1	EUCRITE (POLYMICT)	A	A		31-57
EETA79005	450.9	EUCRITE (POLYMICT)	A	B		30-61
EETA79011	86.4	EUCRITE (POLYMICT)	B	B		30-61
EET 83212	402.1	EUCRITE (POLYMICT)	B	B		
EET 83227	1973.0	EUCRITE (POLYMICT)	B	B		
EET 83228	1206.0	EUCRITE (POLYMICT)	B	B		
EET 83229	312.9	EUCRITE (POLYMICT)	B	B		
EET 83231	66.4	EUCRITE (POLYMICT)	B	A/C		
EET 83232	211.2	EUCRITE (POLYMICT)	B	A/B		

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
EET 83234	180.6	EUCRITE (POLYMICT)	B	B		
EET 83251	261.4	EUCRITE (POLYMICT)	B	A/B		
EET 83283	57.3	EUCRITE (POLYMICT)	B	B		
PCA 82501	54.4	EUCRITE (UNBRECCIATED)	A	A		41-57
PCA 82502	890.4	EUCRITE (UNBRECCIATED)	A	A		36-61
RKPA80224	8.0	EUCRITE (UNBRECCIATED)	A/B	A		54
ALHA81011	405.7	EUCRITIC BRECCIA	A/B	A		33-60
ALHA78006	8.0	HOWARDITE	A	A		25-61
EETA79006	716.4	HOWARDITE	B	B		19-57
EET 82600	247.1	HOWARDITE	A	B		22-53
ALHA77005	482.5	SHERGOTTITE	A	A	28	23
EETA79001	7942.0	SHERGOTTITE	A	A	23-27	16-67
ALHA81313	0.5	SHERGOTTITE (?)				38
ALHA77257	1995.7	UREILITE	A	B	13	12
ALHA78019	30.3	UREILITE	B/C	C	22	18
ALHA78262	26.2	UREILITE	B/C	A	22	19
ALHA81101	119.2	UREILITE	A/B	B	10-22	
ALH 82106	35.1	UREILITE	B	A	3	4
ALH 82130	44.6	UREILITE	B	A	3	4
ALH 83014	44.6	UREILITE	B	A	18	15
EET 83225	44.0	UREILITE	B/C	B		
PCA 82506	5316.0	UREILITE	A/B	A	21	18
RKPA80239	5.6	UREILITE	B	B	16	15

Carbonaceous Chondrites

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA77306	19.9	CARBONACEOUS C2	A	A	1-45	1
ALHA78261	5.1	CARBONACEOUS C2	A	A	0-50	1-8
ALHA81002	14.0	CARBONACEOUS C2	A	B	0-52	0-2
ALHA81004	4.7	CARBONACEOUS C2	A/B	A	0-52	0-2
ALHA81312	0.7	CARBONACEOUS C2	A	A	1-35	1-31
ALH 82100	24.3	CARBONACEOUS C2	A	A	1-47	1-2
ALH 82131	1.0	CARBONACEOUS C2	A	B	0.3	
ALH 83016	4.1	CARBONACEOUS C2	A/B	B/C	0.3-30	0-1
ALH 83100	862.6	CARBONACEOUS C2	B	B/C		
ALH 83102	1240.8	CARBONACEOUS C2	B/C	C	0-2	
ALH 84029	119.8	CARBONACEOUS C2	A	B	0-2	
ALH 84030	6.2	CARBONACEOUS C2	A	B/C	0-2	
ALH 84031	12.5	CARBONACEOUS C2	A	B	0-2	
ALH 84032	7.9	CARBONACEOUS C2	A	A	0-2	2
ALH 84033	60.4	CARBONACEOUS C2	A	B	0-1	2
ALH 84034	44.1	CARBONACEOUS C2	A	A	0-2	
ALH 84042	51.3	CARBONACEOUS C2	A	B	0-2	
ALH 84044	147.4	CARBONACEOUS C2	A	B	0-2	
EET 83224	8.6	CARBONACEOUS C2	A/B	B	0.2-41	0-1
EET 83226	33.1	CARBONACEOUS C2	A/B	B	0.5-69	0.6-10
EET 83250	11.5	CARBONACEOUS C2	B	C	0.3-22	2-14
ALHA77307	181.3	CARBONACEOUS C3	A	A	1-30	1-12
ALHA77003	779.6	CARBONACEOUS C30	A	A	4-48	2-25
ALHA77029 @	1.4	CARBONACEOUS C30	A/B		23.0	2.6
ALH 82101	29.1	CARBONACEOUS C30	A	A/B	1-50	1-10
ALHA81003	10.1	CARBONACEOUS C3V	A/B	A/B	0-60	1
ALHA81258	1.1	CARBONACEOUS C3V	B	A/B	0-28	0-1
ALH 84028	735.9	CARBONACEOUS C3V	A	A	0-50	2
RKPA80241	0.6	CARBONACEOUS C3V	B	B	1-6	1-8
ALH 82135	12.1	CARBONACEOUS C4	A	A	27	24
PCA 82500	90.9	CARBONACEOUS C4	B	C	31	

Chondrites - Type 3

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA77299	260.7	H-3 CHONDRITE	A	A	11-21	15-20
ALHA78170 +	20.9	H-3 CHONDRITE	B		3-36	
ALH 82110	39.3	H-3 CHONDRITE	B/C	B	1-24	4-27
OTTA80301	35.5	H-3 CHONDRITE	B/C	B	17-19	4-19
PCA 82520	22.7	H-3 CHONDRITE	B/C	A/B	15-22	2-19
RKPA80205	53.8	H-3 CHONDRITE	B	B	17-20	5-13
ALHA77011	291.5	L-3 CHONDRITE	C	A	4-36	1-33
ALHA77013 @	23.0	L-3 CHONDRITE	B		9-28	1-35
ALHA77015	411.1	L-3 CHONDRITE	C	B	1-21	4-24
ALHA77031 @	0.5	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77033	9.3	L-3 CHONDRITE	C	B	8-38	8-9
ALHA77034 @	1.8	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77036 @	8.5	L-3 CHONDRITE	B		n.d.	n.d.
ALHA77043 @	11.4	L-3 CHONDRITE	B/C		1-37	1-28
ALHA77047 @	20.5	L-3 CHONDRITE	C		n.d.	n.d.
ALHA77049 @	7.3	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77050 @	84.2	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77052 @	112.2	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77115 @	154.4	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77140	78.6	L-3 CHONDRITE	C	B	8-44	2-17
ALHA77160	70.4	L-3 CHONDRITE	C	B	3-46	6-40
ALHA77163 @	24.3	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77164	38.1	L-3 CHONDRITE	C	C	6-39	3-41
ALHA77165	30.5	L-3 CHONDRITE	C	C	8-33	6-35
ALHA77166 @	138.8	L-3 CHONDRITE	C		n.d.	n.d.
ALHA77167	611.2	L-3 CHONDRITE	C	B/C	2-41	3-17
ALHA77170 @	12.2	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77175 @	23.3	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77176 @	55.4	L-3 CHONDRITE	B		0.3-34	1-37
ALHA77178 @	5.7	L-3 CHONDRITE	B/C		1-36	2-40
ALHA77185 @	28.0	L-3 CHONDRITE	A/B		n.d.	n.d.
ALHA77197 @	20.3	L-3 CHONDRITE	A/B		10-27	4-21
ALHA77211 @	26.7	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77214	2111.0	L-3 CHONDRITE	C	C	1-49	4-23
ALHA77215	819.6	L-3 CHONDRITE	B	B/C	22-26	9-21
ALHA77216	1470.0	L-3 CHONDRITE	A/B	B/C	15-35	14-23
ALHA77217	413.2	L-3 CHONDRITE	B	B/C	17-25	9-26
ALHA77241 @	144.1	L-3 CHONDRITE	C		n.d.	n.d.
ALHA77244 @	39.5	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA77249	503.6	L-3 CHONDRITE	C	C	7-35	2-25
ALHA77252	343.1	L-3 CHONDRITE	B	C	22-28	2-22
ALHA77260	744.3	L-3 CHONDRITE	C	C	7-23	1-28
ALHA77303 @	78.6	L-3 CHONDRITE	B/C		n.d.	n.d.
ALHA78013	4.1	L-3 CHONDRITE			11-45	1-31
ALHA78017 +	2.9	L-3 CHONDRITE	B		3-43	
ALHA78037 +	0.5	L-3 CHONDRITE	B		7-38	
ALHA78038	363.0	L-3 CHONDRITE	C	C	4-42	2-19
ALHA78041 +	117.5	L-3 CHONDRITE	B		0-41	
ALHA78046	70.0	L-3 CHONDRITE			8-25	8-20
ALHA78119 +	102.6	L-3 CHONDRITE	A		0-28	
ALHA78133	59.9	L-3 CHONDRITE			1-34	1-16
ALHA78149 +	23.2	L-3 CHONDRITE	B		18-31	
ALHA78162 +	33.2	L-3 CHONDRITE	B		2-30	

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA78176 +	8.2	L-3 CHONDRITE	B		8-26	
ALHA78180 +	7.9	L-3 CHONDRITE	B		2-33	
ALHA78186	3.1	L-3 CHONDRITE			3-36	3-24
ALHA78188	0.9	L-3 CHONDRITE	C	B	1-34	5-29
ALHA78235 +	19.2	L-3 CHONDRITE	B		8-28	
ALHA78236	14.4	L-3 CHONDRITE			2-37	3-26
ALHA78238	9.8	L-3 CHONDRITE			2-34	3-21
ALHA78239 +	16.0	L-3 CHONDRITE	B		1-34	
ALHA78243	1.9	L-3 CHONDRITE			1-36	3-30
ALHA79001	32.3	L-3 CHONDRITE	C	A	6-39	2-31
ALHA79045	115.4	L-3 CHONDRITE	C	B	2-38	2-29
ALHA80133	3.6	L-3 CHONDRITE	B	B	1-35	5-30
ALHA81024	797.7	L-3 CHONDRITE	C	B	3-28	2-24
ALHA81025	379.0	L-3 CHONDRITE	C	B	1-41	3-40
ALHA81030	1851.6	L-3 CHONDRITE	B/C	B/C	1-49	5-33
ALHA81031	1594.9	L-3 CHONDRITE	C	B/C	1-43	3-35
ALHA81032	726.8	L-3 CHONDRITE	C	A	0-42	2-14
ALHA81053	2.5	L-3 CHONDRITE	C	B	1-29	1-42
ALHA81060	28.3	L-3 CHONDRITE	C	B	2-28	5-27
ALHA81061	23.7	L-3 CHONDRITE	B/C	A	3-33	5-27
ALHA81065	13.1	L-3 CHONDRITE	B/C	B	10-41	5-24
ALHA81066	8.7	L-3 CHONDRITE	C	B	1-44	1-25
ALHA81069	7.2	L-3 CHONDRITE	B/C	A	4-38	1-31
ALHA81085	16.2	L-3 CHONDRITE	C	B	1-39	2-25
ALHA81087	8.4	L-3 CHONDRITE	B/C	B	2-29	3-31
ALHA81121	88.4	L-3 CHONDRITE	B	B	8-40	1-24
ALHA81145	21.1	L-3 CHONDRITE	B	B	5-40	3-23
ALHA81156	19.7	L-3 CHONDRITE	B/C	B/C	4-42	1-30
ALHA81162	59.4	L-3 CHONDRITE	C	C	1-40	4-20
ALHA81190	48.3	L-3 CHONDRITE	C	A/B	0.3-32	4-28
ALHA81191	30.4	L-3 CHONDRITE	C	B/C	2-29	1-30
ALHA81214	4.4	L-3 CHONDRITE	B/C	A	0.2-38	0.1-45
ALHA81229	40.0	L-3 CHONDRITE	C	B/C	7-32	2-30
ALHA81243	15.0	L-3 CHONDRITE	C	B	5-44	6-31
ALHA81259	9.9	L-3 CHONDRITE	C	B	0-22	0-29
ALHA81272	22.9	L-3 CHONDRITE	C	B	2-36	3-22
ALHA81280	54.9	L-3 CHONDRITE	C	B	1-32	2-24
ALHA81292	12.9	L-3 CHONDRITE	C	A/B	11-34	2-31
ALHA81299	0.5	L-3 CHONDRITE	C	A/B	1-37	2-16
ALH 83010	395.2	L-3 CHONDRITE	B	A	4-31	2-28
EET 82601	149.5	L-3 CHONDRITE	B/C	A	2-39	1-35
EET 83213	2727.0	L-3 CHONDRITE	B	A	13-30	3-26
RKPA79008	73.0	L-3 CHONDRITE	B	B	1-29	2-28
RKPA80207	17.7	L-3 CHONDRITE	C	B	15-29	6-28
RKPA80256	153.2	L-3 CHONDRITE	B	A	20-25	10-26
ALHA79022	31.4	L-3,4 CHONDRITE	A/B	B	1-28	9-22
ALHA78015 *	34.9	LL(?L)-3 CHONDRITE			8-35	
ALHA76004	52.5	LL-3 CHONDRITE	A	A	0-34	0-53
ALHA77278	312.9	LL-3 CHONDRITE	A	A	11-29	9-21
ALHA78138 +	10.8	LL-3 CHONDRITE	B		0-35	
ALHA79003	5.1	LL-3 CHONDRITE	B	B	10-38	5-26
ALHA81251	158.0	LL-3 CHONDRITE	B/C	B	1-29	2-28
TIL 82408	80.1	LL-3 CHONDRITE	B	A/B	1-29	2-21

Chondrites - Type 4

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA77004	2230.0	H-4 CHONDRITE	C	C	17-20	15-27
ALHA77009	235.5	H-4 CHONDRITE	C	A	18	16
ALHA77010	295.8	H-4 CHONDRITE	C	A	18	15-18
ALHA77056 @	12.3	H-4 CHONDRITE	A/B		18.8	16.3
ALHA77190	387.1	H-4 CHONDRITE	C	C	17-19	15-22
ALHA77191	642.2	H-4 CHONDRITE	C	B/C	16-18	14-16
ALHA77192	845.3	H-4 CHONDRITE	C	C	16-18	15-21
ALHA77208	1733.0	H-4 CHONDRITE	C	C	17	14
ALHA77221	229.2	H-4 CHONDRITE	C	A	15	13-15
ALHA77222 @	125.4	H-4 CHONDRITE	A/B		18.0	15.3
ALHA77223	207.9	H-4 CHONDRITE	C	C	17	15-23
ALHA77224	786.9	H-4 CHONDRITE	C	C	19	17
ALHA77225	5878.0	H-4 CHONDRITE	C	C	17	16
ALHA77226	15323.0	H-4 CHONDRITE	C	C	18	16
ALHA77232	6494.3	H-4 CHONDRITE	C	C	17	15
ALHA77233	4087.0	H-4 CHONDRITE	C	B	14-21	15-17
ALHA77262	861.5	H-4 CHONDRITE	B/C	B	15-19	13-16
ALHA77286	245.8	H-4 CHONDRITE	C	B	17	12-16
ALHA78029 +	4.1	H-4 CHONDRITE	B		19.2	
ALHA78033 +	5.0	H-4 CHONDRITE	B		19.2	
ALHA78051	119.5	H-4 CHONDRITE			18	15-18
ALHA78053	179.0	H-4 CHONDRITE	C	B	17	16
ALHA78057	8.7	H-4 CHONDRITE			18	16
ALHA78077	330.6	H-4 CHONDRITE	C	B	19	15-18
ALHA78084	14280.0	H-4 CHONDRITE	B/C	B	18	8-24
ALHA78120	44.3	H-4 CHONDRITE			18	16
ALHA78134	458.3	H-4 CHONDRITE	B/C	B/C	18	15-20
ALHA78140 +	16.6	H-4 CHONDRITE	B		18.4	
ALHA78157 +	63.4	H-4 CHONDRITE	B		19.0	
ALHA78168 +	33.6	H-4 CHONDRITE	B		19.2	
ALHA78172 +	29.4	H-4 CHONDRITE	B		19.7	
ALHA78193	13.3	H-4 CHONDRITE	B/C	A	18	16
ALHA78196	11.2	H-4 CHONDRITE	B/C	B	18	16
ALHA78223	6.5	H-4 CHONDRITE	B	B	18	16
ALHA79023	68.1	H-4 CHONDRITE	B/C	C	17	14-17
ALHA79035	37.6	H-4 CHONDRITE	B	B	17	14-18
ALHA79039	108.3	H-4 CHONDRITE	B	B	16	15
ALHA80106	432.2	H-4 CHONDRITE	C	B	19	16-19
ALHA80121	39.1	H-4 CHONDRITE	B/C	C	19	17
ALHA80128	138.2	H-4 CHONDRITE	B	B/C	18	15-20
ALHA80131	19.8	H-4 CHONDRITE	B	B	19	16-22
ALHA81022	912.5	H-4 CHONDRITE	B/C	A	19	17
ALHA81041	728.8	H-4 CHONDRITE	C	C	18	15-23
ALHA81043	106.0	H-4 CHONDRITE	B/C	C	18	15
ALHA81044	386.8	H-4 CHONDRITE	C	C	18	16
ALHA81045	90.2	H-4 CHONDRITE	C	B/C	18	16
ALHA81046	16.6	H-4 CHONDRITE	C	B/C	18	16
ALHA81047	81.9	H-4 CHONDRITE	B/C	B/C	18	16
ALHA81048	190.6	H-4 CHONDRITE	B/C	B/C	18	16
ALHA81049	8.5	H-4 CHONDRITE	B/C	B	18	16
ALHA81050	25.7	H-4 CHONDRITE	C	C	18	16
ALHA81051	43.0	H-4 CHONDRITE	B/C	B	18	16
ALHA81052	28.7	H-4 CHONDRITE	C	B	18	16
ALHA81056	1.4	H-4 CHONDRITE	B	A	19	17

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA81057	8.4	H-4 CHONDRITE	B	A	19	13-21
ALHA81058	66.2	H-4 CHONDRITE	C	C	18	15
ALHA81068	23.7	H-4 CHONDRITE	B	A	19	16
ALHA81073	3.3	H-4 CHONDRITE	B/C	A	19	8-18
ALHA81074	8.0	H-4 CHONDRITE	B	B	19	16
ALHA81092	15.6	H-4 CHONDRITE	B	A	19	17
ALHA81095	58.8	H-4 CHONDRITE	B/C	C	18	16
ALHA81097	79.9	H-4 CHONDRITE	B	A	18	16
ALHA81104	183.8	H-4 CHONDRITE	C	C	19	17
ALHA81105	92.7	H-4 CHONDRITE	C	B/C	18	16
ALHA81109	1.1	H-4 CHONDRITE	B	A	19	17
ALHA81114	79.3	H-4 CHONDRITE	B/C	B/C	18	16
ALHA81117	32.9	H-4 CHONDRITE	B	B/C	18	14-21
ALHA81140	14.4	H-4 CHONDRITE	B/C	A	19	17
ALHA81142	1.2	H-4 CHONDRITE	B/C	B/C	18	16
ALHA81147	1.7	H-4 CHONDRITE	B	A	19	16
ALHA81149	8.8	H-4 CHONDRITE	B	B	19	16
ALHA81157	11.8	H-4 CHONDRITE	B/C	B	19	17
ALHA81177	17.3	H-4 CHONDRITE	B/C	B	19	16
ALHA81199	16.0	H-4 CHONDRITE	C	B	19	16
ALHA81200	9.5	H-4 CHONDRITE	B/C	A	19	17
ALHA81206	3.8	H-4 CHONDRITE	B/C	A	18	15-21
ALHA81212	11.5	H-4 CHONDRITE	B/C	B	18	16
ALHA81231	9.2	H-4 CHONDRITE	B/C	B	19	16
ALHA81234	4.7	H-4 CHONDRITE	C	A	18	16
ALHA81267	26.8	H-4 CHONDRITE	C	B/C	18	15-22
ALHA81279	27.1	H-4 CHONDRITE	C	B/C	17	16
ALHA81290	1.5	H-4 CHONDRITE	B	A	18	17
ALHA81309	0.6	H-4 CHONDRITE	C	A	18	16
ALH 82126	139.9	H-4 CHONDRITE	B/C	A	18	15
ALH 82128	15.2	H-4 CHONDRITE	B/C	A	18	16
ALH 82133	19.7	H-4 CHONDRITE	B/C	A/B	18	16
ALH 82136	4.3	H-4 CHONDRITE	B	B	18	5-20
ALH 84004	9000.0	H-4 CHONDRITE	B	B	17-18	16-19
EET 82602	1824.1	H-4 CHONDRITE	B	B	19	16
EET 82609	325.5	H-4 CHONDRITE	B/C	A/B	18	17
EET 82616	2.1	H-4 CHONDRITE	B/C	A	18	16
EET 83207	1238.3	H-4 CHONDRITE	B	B	18	16-18
EET 83211	542.7	H-4 CHONDRITE	B/C	B/C	18-20	16-20
META78001	624.4	H-4 CHONDRITE	B/C	B	17	14-21
PCA 82511	149.0	H-4 CHONDRITE	B	B	17	14
PCA 82515	6.9	H-4 CHONDRITE	B	A/B	17	14
PCA 82524	113.8	H-4 CHONDRITE	A/B	B	18	16
RKPA78002	8483.0	H-4 CHONDRITE	B	A/B	18	15
RKPA78004	166.9	H-4 CHONDRITE	A	A	17	14-21
RKPA80232	80.1	H-4 CHONDRITE	B	A	18	16
RKPA80237	22.2	H-4 CHONDRITE	C	B	18	16
RKPA80267	24.2	H-4 CHONDRITE	C	A	19	16
ALH 84006	16000.0	H-4,5 CHONDRITE	B/C	B	18	17-18
ALHA77230	2473.0	L-4 CHONDRITE	C	B	22-25	18-29
ALHA77304	650.4	L-4 CHONDRITE	B	B	18-27	13-19
ALHA78044	164.1	L-4 CHONDRITE	B/C	B	23-25	19-24
ALHA78070	10.0	L-4 CHONDRITE			23	13-25
ALHA81040	194.5	L-4 CHONDRITE	B/C	A	25	21

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA81119	107.4	L-4 CHONDRITE	B	B	24	21
ALHA81184	16.7	L-4 CHONDRITE	A/B	A	24	20
ALH 83001	1568.6	L-4 CHONDRITE	B	A	23-28	20-32
EET 82611	12.6	L-4 CHONDRITE	B	B	24	21
EET 82613	4.2	L-4 CHONDRITE	B	A	24	20
PCA 82514	129.8	L-4 CHONDRITE	B	A	23	11-22
RKPA80216	44.3	L-4 CHONDRITE	B	B	23	20
RKPA80242	7.3	L-4 CHONDRITE	B/C	B	22	19
TIL 82404	321.6	L-4 CHONDRITE	B	B	23	20
TIL 82406	152.0	L-4 CHONDRITE	B	A	23	19
TIL 82407	220.8	L-4 CHONDRITE	B/C	A	23	20
TIL 82411	179.5	L-4 CHONDRITE	A/B	A	24	21
TYR 82700	892.1	L-4 CHONDRITE	B	A	24	15-23

Enstatite Chondrites

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA81189	2.6	E-4 CHONDRITE	C	B	2	3
ALH 82132	5.9	E-4 CHONDRITE	C	B/C		0.4
PCA 82518	21.9	E-4 CHONDRITE	B	A	0.8	
RKPA80259	20.2	E-5 CHONDRITE	B/C	B		0-1
ALHA81021	695.1	E-6 CHONDRITE	A	B		0-1
ALHA81260	124.1	E-6 CHONDRITE	A/B	A/B		.3
ALHA77156 @	17.7	EH-4 CHONDRITE	B		0.8	1.5
ALHA77295 @	141.3	EH-4 CHONDRITE	B		0.8	1.7

Irons

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA81013	17727.0	IRON				
ALHA81014	188.2	IRON				
ALHA80104	882.0	IRON-ATAXITE				
EET 83230	530.0	IRON-ATAXITE				
ILD 83500	2523.0	IRON-ATAXITE				
ALHA77255	765.1	IRON-ATAXITE (ANOM)				
ALHA76002	307.0	IRON-GROUP IA				
ALHA77250	10555.0	IRON-GROUP IA				
ALHA77263	1669.0	IRON-GROUP IA				
ALHA77283	10510.0	IRON-GROUP IA				
ALHA77289	2186.0	IRON-GROUP IA				
ALHA77290	3784.0	IRON-GROUP IA				
PGPA77006	19068.0	IRON-GROUP IA				
ALHA78100	84.9	IRON-GROUP IIA				
DRPA78001	15200.0	IRON-GROUP IIB				
DRPA78002	7188.0	IRON-GROUP IIB				
DRPA78003	144.2	IRON-GROUP IIB				
DRPA78004	133.6	IRON-GROUP IIB				
DRPA78005	18600.0	IRON-GROUP IIB				
DRPA78006	389.3	IRON-GROUP IIB				
DRPA78007	11800.0	IRON-GROUP IIB				
DRPA78008	59400.0	IRON-GROUP IIB				
DRPA78009	138100.0	IRON-GROUP IIB				
ALHA78252	2789.0	IRON-GROUP IVA				
EET 83245	59.0	IRON-OCTAHEDRITE				
RKPA80226	160.3	IRON-OCTAHEDRITE				

Stony-Irons

Sample Number	Weight (g)	Classification	Weathering	Fracturing	% Fa	% Fs
ALHA77219	637.1	MESOSIDERITE	B	B	26	24-28
ALHA81059	539.5	MESOSIDERITE	C	B/C	28	25-32
ALHA81098	70.9	MESOSIDERITE	C	B/C		28
RKPA79015	10022.0	MESOSIDERITE	A/B	A		24
RKPA80229	14.1	MESOSIDERITE	C	B/C		24
RKPA80246	5.8	MESOSIDERITE	C	C		24
RKPA80258	4.3	MESOSIDERITE	B/C	B		17-21
RKPA80263	16.7	MESOSIDERITE	C	B		24

@ Classified by S.G. McKinley and K. Keil.
* Classified by S.J.B. Reed and S.O. Agrell.
+ Classified by C.B. Moore.

POSSIBLE PAIRINGS

An important task in research on Antarctic meteorites is to reliably recognize "paired" meteorite specimens that fell to Earth in common events. Information about pairing is vital for studies that attempt to use abundances of recovered meteorites to deduce the composition of the meteoroid flux that reaches Earth. In addition, pairing information might be useful in determining the mechanisms for transporting and concentrating meteorites in Antarctica. Also, information about pairing can be useful in avoiding unnecessary duplication of effort in cosmochemical analyses of meteorites that are known or strongly suspected to belong to the same pairing group.

Previous issues of the Newsletter have summarized possible pairing groups that may exist among specimens from a given field season or collection locality. In this issue, Table 4 gives an alphabetical listing of meteorite specimens that have been suggested, by various criteria, to be paired with one or more other specimens. The information in Table 4, including assignment of "pairing group" numbers, was supplied by Dr. Edward Scott (Institute of Meteoritics, University of New Mexico, Albuquerque, NM 87131; Telephone: 505-277-3842). For further details of the rationale and confidence levels that apply to Table 4, interested readers should contact Dr. Scott directly and also refer to the following publications:

Scott, E. R. D. Pairing of meteorites from Victoria Land and the Thiel Mountains, Antarctica. Smithsonian Contr. Earth Sci., to be published in 1986.

Scott, E. R. D. (1984) Pairing of meteorites found in Victoria Land, Antarctica. Proc. Ninth Symposium on Antarctic Meteorites, Memoirs of National Institute of Polar Research Special Issue No. 35, Tokyo, 102-125.

Please note that Table 4 does not include suspected pairings that might involve "new" meteorites described in this Newsletter issue. The pairings that are suggested for the newly described meteorites are based only petrographic similarities and remain to be fully investigated.

TABLE 4

Meteorite specimens that might be members of paired groups and the confidence levels of these pairings. (After Scott, 1985).

SPECIMEN NUMBER	PAIR NUMBER	CONFIDENCE* LEVEL
ALHA		
76002	5.1	a
76003	14.1	x
76004	15.1	b
76005	2.1	a
76007	14.1	x
77001	14.2	b
77003	6.3	x
77004	8.1	b
77009	8.2	c
77011	11.1	a
77014	9.1	c
77015	11.1	a
77021	9.2	c
77025	9.2	c
77031	11.1	a
77033	11.1	a
77034	11.1	a
77036	11.1	a
77043	11.1	a
77047	11.1	a
77049	11.1	a
77050	11.1	a
77052	11.1	a
77061	9.2	c
77062	9.2	c
77064	9.2	c
77071	9.2	c
77074	9.2	c
77081	1.1	a
ALHA		
77086	9.2	c
77088	9.2	c
77102	9.2	x
77115	11.1	a
77118	9.3	c
77119	9.3	c
77124	9.3	c
77140	11.1	a
77144	10.1	c
77148	10.1	c
77150	14.2	x
77156	7.1	a
77160	11.1	a
77163-77167	11.1	a
77170	11.1	a
77175	11.1	a
77178	11.1	a
77180	14.2	x
77185	11.1	a
77190-77192	8.1	b
77208	8.1	b
77211	11.1	a
77214	11.1	a
77215-77217	11.2	a
77219	4.1	b
77221	8.1	c
77223-77226	8.1	b

SPECIMEN NUMBER	PAIR NUMBER	CONFIDENCE* LEVEL
ALHA		
77231	14.3	x
77232	8.1	b
77233	8.1	b
77241	11.1	a
77244	11.1	a
77249	11.1	a
77250	5.1	a
77252	11.2	a
77260	11.1	a
77263	5.1	a
77264	9.1	c
77269	14.3	x
77270	14.3	x
77271	10.2	a
77272	14.3	a
77273	14.3	a
77277	14.3	x
77280	14.3	b
77281	14.3	x
77282	14.3	b
77283	5.1	x
77284	14.3	x
77288	10.2	a
77289	5.1	a
77290	5.1	a
77292	14.2	b
77293	14.2	b
77295	7.1	a
77296	14.2	b
77297	14.2	b
77302	2.1	a
77303	11.1	a
77305	14.2	x
77306	6.1	x
78013	11.1	a
78015	11.1	a
78019	3.2	c
78038	11.1	a
78040	2.1	a
78043	14.4	b
78045	14.4	b
78084	8.2	x
78103	14.5	b
78104	14.5	x
78105	14.5	b
78112	14.6	x
78114	14.6	x
78126	14.7	x
78130	14.7	x
78131	14.7	x
78132	2.1	a
78158	2.1	a
78165	2.1	a
78186	11.1	a
78188	11.1	a
78193	8.3	b
78196	8.3	b
78209	9.4	b
78211	10.3	b
78213	10.3	b
78215	10.3	b
78221	9.4	b
78223	8.3	b
78225	9.4	b
78227	9.4	b
78229	10.3	b

SPECIMEN NUMBER	PAIR NUMBER	CONFIDENCE* LEVEL
ALHA		
78231	10.3	b
78233	9.4	b
78236	11.1	a
78238	11.1	a
78243	11.1	a
78251	14.5	x
78261	6.1	c
78262	3.2	c
79001	11.1	a
79017	2.1	a
79031	9.5	b
79032	9.5	b
79045	11.1	a
80101	14.8	b
80102	2.1	b
80103	14.8	b
80105	14.8	b
80106	8.4	c
80107	14.8	b
80108	14.8	b
80110	14.8	b
80111	9.6	x
80112-80117	14.8	b
80119	14.8	b
80120	14.8	b
80121	8.4	c
80122	10.4	c
80124	9.6	x
80125	14.8	b
80126	10.4	c
80127	9.6	c

SPECIMEN NUMBER	PAIR NUMBER	CONFIDENCE* LEVEL
ALHA		
80128	8.4	c
80129	9.6	c
80130	10.4	c
80131	8.4	c
80132	9.6	c
80133	11.1	a
81001	2.1	b
81002	6.1	b
81003	6.4	c
81004	6.1	b
81006-81010	2.1	b
81012	2.1	b
81017	13.1	c
81018	13.1	c
81021	7.2	c
81022	8.2	c
81023	13.1	c
81025	11.1	a
81027-81029	14.9	b
81030-81032	11.1	a
81035	10.5	c
81038	10.5	c
81041	8.5	c
81043-81052	8.5	c
81053	11.1	a
81059	4.1	b
81060	11.1	a
81061	11.1	a
81065	11.1	a

SPECIMEN NUMBER	PAIR NUMBER	CONFIDENCE* LEVEL
ALHA		
81066	11.1	a
81069	11.1	a
81085	11.1	a
81087	11.1	a
81098	4.1	b
81103	10.5	c
81112	10.5	c
81121	11.1	a
81145	11.1	a
81156	11.1	a
81162	11.1	a
81189	7.1	c
81190	11.1	a
81191	11.1	a
81214	11.1	a
81229	11.1	a
81243	11.1	a
81251	15.1	b
81258	6.4	c
81259	11.1	a
81260	7.2	c
81261	1.1	a
81272	11.1	a
81280	11.1	a
81292	11.1	a
81299	11.1	a
81315	1.1	a
82100	6.1	b
82101	6.3	x
82106	3.3	a
82130	3.3	a
82131	6.1	c

SPECIMEN NUMBER	PAIR NUMBER	CONFIDENCE* LEVEL
ALHA		
83009	3.1	a
83015	3.1	a
83100	6.2	b
83102	6.2	b
BTNA		
78001	14.10	a
78002	14.10	a
DRPA		
78001-78016	5.2	a
EETA		
79004-79006	2.2	b
79011	2.2	b
82600	2.2	b
82605	14.11	c
82606	14.11	c
82610	10.8	c
82615	10.8	c
83227-83229	2.2	b
83231	2.2	b
83232	2.2	b
83234	2.2	b
83235	2.2	b
83251	2.2	b
83283	2.2	b

SPECIMEN NUMBER	PAIR NUMBER	CONFIDENCE* LEVEL
MBRA		
76001	10.6	a
76002	10.6	a
PCA		
82504	13.2	c
82505	13.2	c
82526	10.9	c
82527	10.9	c
RKPA		
78001	14.12	b
78003	14.12	b
79001	14.12	c
79002	14.12	c
79008	11.3	x
79015	4.2	b
80202	14.12	c
80203	10.7	b
80206	10.7	b
80207	11.3	x
80208	10.7	b
80209	13.3	c
80211	10.7	b
80213	10.7	b
80214	10.7	b
80216	12.1	b
80217	9.7	c
80218	9.7	c
80219	14.12	c
80220	9.8	c
80221	10.7	b
80222	16.1	b

SPECIMEN NUMBER	PAIR NUMBER	CONFIDENCE* LEVEL
RKPA		
80223	9.8	c
80225	14.12	c
80228	13.3	c
80229	4.2	b
80231	10.7	c
80232	8.6	x
80237	8.6	b
80238	16.1	a
80242	12.1	b
80246	4.2	b
80248	16.1	a
80250	9.9	c
80251	9.9	c
80252	14.12	c
80254	10.7	b
80255	10.7	b
80258	4.2	x
80261	14.12	c
80262	10.7	c
80263	4.2	b
80264	14.12	c
80265	10.7	b
80266	10.7	b
80267	8.6	b
80268	13.3	c
TIL		
82412	9.10	c
82413	9.10	c
82414	9.11	c
82415	9.11	c

* Confidence levels: a, high; b, medium, c, low; x, unpaired or highly uncertain pairing.

THIN SECTIONS ALLOCATED TO INVESTIGATORS

As "renewable" resources that can be used repeatedly by different investigators, polished thin sections of meteorites are especially valuable samples. Accordingly, it is important that thin sections of Antarctic meteorites are made readily available to the scientific community. Table 5, which lists all thin sections from the Antarctic meteorite collection that have been allocated to individual investigators for two years or more, serves two purposes. First, it shows the locations of sections which may be of research interest to readers and it reminds individual investigators of the sections which have been in their possessions for the longest periods of time. Investigators who have completed their studies of any sections that are listed in Table 5 are encouraged to return the sections to "Curator/Antarctic Meteorites" at the address given at the top of page 1. Requests for loan renewals should be sent to the same address.

TABLE 5

ANTARCTIC METEORITE THIN SECTIONS OUT TO INVESTIGATORS FOR TWO YEARS OR MORE

SAMPLE NUMBER		CLASSIFICATION	METEORITE INVESTIGATOR	DATE SENT TO MI
ALHA76004	8	LL-3 CHONDRITE	KEIL,K	30-Jun-1981
ALHA76005	9	EUCRITE (POLYMICT)	PAPIKE,JJ	8-Apr-1980
ALHA76005	10	EUCRITE (POLYMICT)	PAPIKE,JJ	8-Apr-1980
ALHA76005	11	EUCRITE (POLYMICT)	PAPIKE,JJ	8-Apr-1980
ALHA76005	37	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	38	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	39	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	40	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	41	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	42	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	43	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	44	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	45	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	46	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	47	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	48	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA76005	49	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77001	25	L-6 CHONDRITE	HAGGERTY,SE	14-Dec-1978
ALHA77002	28	L-5 CHONDRITE	HAGGERTY,SE	7-Dec-1978
ALHA77003	31	CARBONACEOUS C3O	YANG,HY	31-Oct-1978
ALHA77003	48	CARBONACEOUS C3O	KEIL,K	26-Feb-1980
ALHA77003	54	CARBONACEOUS C3O	HEWINS,RH	9-Sep-1980
ALHA77003	78	CARBONACEOUS C3O	HOUSLEY,RM	21-Nov-1983
ALHA77005	30	SHERGOTTITE	PAPIKE,JJ	7-Dec-1978
ALHA77005	32	SHERGOTTITE	PRINZ,M	7-Dec-1978
ALHA77005	33	SHERGOTTITE	YANG,HY	7-Dec-1978
ALHA77005	34	SHERGOTTITE	MCSWEEN,HY	7-Dec-1978
ALHA77005	35	SHERGOTTITE	PAPIKE,JJ	7-Dec-1978
ALHA77005	44	SHERGOTTITE	REID,AM	4-Feb-1980
ALHA77005	45	SHERGOTTITE	MCKAY,GA	3-Mar-1981
ALHA77005	54	SHERGOTTITE	STEELE,I	13-Aug-1982
ALHA77011	24	L-3 CHONDRITE	KEIL,K	30-Jul-1981
ALHA77011	29	L-3 CHONDRITE	BUSECK,PR	28-Sep-1982
ALHA77015	22	L-3 CHONDRITE	HEWINS,RH	7-Oct-1980
ALHA77081	19	H(?) CHONDRITE	PRINZ,M	9-Sep-1980
ALHA77167	17	L-3 CHONDRITE	WASSON,JT	3-Jan-1980
ALHA77214	25	L-3 CHONDRITE	YANG,HY	31-Oct-1978
ALHA77214	53	L-3 CHONDRITE	MUKHERJEE,AB	21-Oct-1983
ALHA77215	17	L-3 CHONDRITE	SCORE,R	8-Jan-1981
ALHA77215	18	L-3 CHONDRITE	SCORE,R	8-Jan-1981
ALHA77216	28	L-3 CHONDRITE	SCORE,R	29-Nov-1979
ALHA77216	29	L-3 CHONDRITE	SCORE,R	29-Nov-1979

ALHA77216	30	L-3 CHONDRITE	SCORE,R	29-Nov-1979
ALHA77216	36	L-3 CHONDRITE	SCORE,R	8-Jan-1981
ALHA77216	45	L-3 CHONDRITE	KEIL,K	21-Oct-1983
ALHA77217	15	L-3 CHONDRITE	SCORE,R	8-Jan-1981
ALHA77217	16	L-3 CHONDRITE	SCORE,R	8-Jan-1981
ALHA77219	8	MESOSIDERITE	HEWINS,RH	5-Aug-1980
ALHA77219	31	MESOSIDERITE	REID,AM	23-Aug-1979
ALHA77219	33	MESOSIDERITE	PAPIKE,JJ	6-Sep-1979
ALHA77219	34	MESOSIDERITE	HEWINS,RH	6-Sep-1979
ALHA77219	38	MESOSIDERITE	PRINZ,M	18-Dec-1979
ALHA77219	40	MESOSIDERITE	PAPIKE,JJ	11-Mar-1980
ALHA77233	18	H-4 CHONDRITE	WLOTZKA,F	3-Sep-1982
ALHA77249	15	L-3 CHONDRITE	WASSON,JT	1-Nov-1979
ALHA77256	7	DIOGENITE	DRAKE,MJ	8-Feb-1982
ALHA77256	30	DIOGENITE	PAPIKE,JJ	7-Dec-1978
ALHA77256	31	DIOGENITE	HEWINS,RH	7-Dec-1978
ALHA77256	32	DIOGENITE	PAPIKE,JJ	7-Dec-1978
ALHA77256	45	DIOGENITE	HAGGERTY,SE	6-Sep-1979
ALHA77256	46	DIOGENITE	REID,AM	6-Sep-1979
ALHA77256	49	DIOGENITE	HEWINS,RH	3-Jan-1980
ALHA77256	50	DIOGENITE	PRINZ,M	18-Dec-1979
ALHA77256	52	DIOGENITE	ASHWAL,LD	11-May-1982
ALHA77256	54	DIOGENITE	PRINZ,M	9-Sep-1980
ALHA77256	56	DIOGENITE	GIBSON,EK	5-May-1981
ALHA77256	68	DIOGENITE	DRAKE,MJ	26-Jan-1982
ALHA77257	38	UREILITE	YANG,HY	14-Dec-1978
ALHA77257	39	UREILITE	PAPIKE,JJ	14-Dec-1978
ALHA77257	41	UREILITE	PAPIKE,JJ	14-Dec-1978
ALHA77257	42	UREILITE	PRINZ,M	14-Dec-1978
ALHA77257	58	UREILITE	HAGGERTY,SE	6-Sep-1979
ALHA77260	16	L-3 CHONDRITE	WASSON,JT	29-Nov-1979
ALHA77262	36	H-4 CHONDRITE	WLOTZKA,F	3-Sep-1982
ALHA77272	24	L-6 CHONDRITE	YANG,HY	31-Oct-1978
ALHA77278	6	LL-3 CHONDRITE	MCKAY,DS	30-Nov-1983
ALHA77278	28	LL-3 CHONDRITE	YANG,HY	7-Dec-1978
ALHA77278	43	LL-3 CHONDRITE	WASSON,JT	6-Dec-1979
ALHA77278	44	LL-3 CHONDRITE	WILKENING,LL	6-Dec-1979
ALHA77278	45	LL-3 CHONDRITE	KEIL,K	26-Feb-1980
ALHA77278	58	LL-3 CHONDRITE	KEIL,K	13-Jul-1983
ALHA77299	25	H-3 CHONDRITE	HAGGERTY,SE	14-Dec-1978
ALHA77299	27	H-3 CHONDRITE	YANG,HY	14-Dec-1978
ALHA77299	38	H-3 CHONDRITE	WASSON,JT	18-Dec-1979
ALHA77299	40	H-3 CHONDRITE	KEIL,K	26-Feb-1980
ALHA77299	50	H-3 CHONDRITE	MCKAY,DS	29-Nov-1983
ALHA77302	32	EUCRITE (POLYMICT)	HAGGERTY,SE	6-Sep-1979
ALHA77302	33	EUCRITE (POLYMICT)	PRINZ,M	6-Sep-1979
ALHA77302	34	EUCRITE (POLYMICT)	PAPIKE,JJ	6-Sep-1979
ALHA77302	35	EUCRITE (POLYMICT)	REID,AM	6-Sep-1979
ALHA77302	36	EUCRITE (POLYMICT)	PAPIKE,JJ	6-Sep-1979
ALHA77302	68	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77302	69	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77302	70	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77302	71	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980

ALHA77302	72	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77302	73	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77302	74	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77302	75	EUCRITE (POLYMICT)	REID,AM	10-Aug-1980
ALHA77302	76	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77302	77	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77302	78	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA77304	21	L-4 CHONDRITE	WASSON,JT	6-Dec-1979
ALHA77304	35	L-4 CHONDRITE	KEIL,K	30-Jun-1981
ALHA77304	36	L-4 CHONDRITE	KEIL,K	30-Jun-1981
ALHA77304	47	L-4 CHONDRITE	WLOTZKA,F	31-Aug-1982
ALHA77306	23	CARBONACEOUS C2	WOOD,JA	14-Nov-1978
ALHA77306	26	CARBONACEOUS C2	WOOD,JA	14-Nov-1978
ALHA77306	35	CARBONACEOUS C2	HAGGERTY,SE	29-Nov-1979
ALHA77307	40	CARBONACEOUS C3	MCSWEEN,HY	3-Jan-1980
ALHA77307	53	CARBONACEOUS C3	HOUSLEY,RM	21-Nov-1983
ALHA78006	9	HOWARDITE	PAPIKE,JJ	14-Feb-1980
ALHA78006	10	HOWARDITE	PRINZ,M	16-Sep-1980
ALHA78019	14	UREILITE	PAPIKE,JJ	18-Dec-1979
ALHA78019	15	UREILITE	PRINZ,M	18-Dec-1979
ALHA78040	19	EUCRITE (POLYMICT)	PRINZ,M	22-Jan-1980
ALHA78040	20	EUCRITE (POLYMICT)	PRINZ,M	22-Jan-1980
ALHA78040	23	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	37	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	38	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	51	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	52	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	53	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	54	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	55	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	56	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	57	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	58	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	59	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	60	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	61	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	62	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	63	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	64	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78040	65	EUCRITE (POLYMICT)	REID,AM	2-Oct-1980
ALHA78043	25	L-6 CHONDRITE	MUKHERJEE,AB	6-Oct-1983
ALHA78045	19	L-6 CHONDRITE	MUKHERJEE,AB	6-Oct-1983
ALHA78084	134	H-4 CHONDRITE	KEIL,K	30-Jun-1981
ALHA78084	135	H-4 CHONDRITE	KEIL,K	30-Jun-1981
ALHA78084	158	H-4 CHONDRITE	WLOTZKA,F	31-Aug-1982
ALHA78113	18	AUBRITE	PRINZ,M	18-Dec-1979
ALHA78113	19	AUBRITE	PAPIKE,JJ	18-Dec-1979
ALHA78113	21	AUBRITE	REID,AM	4-Feb-1980
ALHA78113	42	AUBRITE	LIPSCHUTZ,ME	1-Feb-1982
ALHA78132	18	EUCRITE (POLYMICT)	REID,AM	21-Feb-1980
ALHA78132	19	EUCRITE (POLYMICT)	REID,AM	21-Feb-1980
ALHA78132	20	EUCRITE (POLYMICT)	REID,AM	21-Feb-1980
ALHA78132	46	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980

ALHA78132	47	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA78132	48	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA78132	49	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA78132	50	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA78132	51	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA78132	52	EUCRITE (POLYMICT)	REID,AM	10-Jul-1980
ALHA78158	8	EUCRITE (POLYMICT)	REID,AM	21-Feb-1980
ALHA78158	15	EUCRITE (POLYMICT)	REID,AM	9-Sep-1980
ALHA78158	16	EUCRITE (POLYMICT)	REID,AM	9-Sep-1980
ALHA78158	17	EUCRITE (POLYMICT)	REID,AM	9-Sep-1980
ALHA78158	18	EUCRITE (POLYMICT)	HEWINS,RH	9-Sep-1980
ALHA78165	9	EUCRITE (POLYMICT)	REID,AM	21-Feb-1980
ALHA78165	10	EUCRITE (POLYMICT)	REID,AM	21-Feb-1980
ALHA78165	16	EUCRITE (POLYMICT)	REID,AM	9-Sep-1980
ALHA78165	17	EUCRITE (POLYMICT)	HEWINS,RH	9-Sep-1980
ALHA78165	18	EUCRITE (POLYMICT)	REID,AM	9-Sep-1980
ALHA79003	8	LL-3 CHONDRITE	KEIL,K	10-Nov-1981
ALHA79017	41	EUCRITE (POLYMICT)	REID,AM	12-May-1981
ALHA79017	42	EUCRITE (POLYMICT)	REID,AM	12-May-1981
ALHA79017	43	EUCRITE (POLYMICT)	REID,AM	12-May-1981
ALHA79017	44	EUCRITE (POLYMICT)	WOODEN,J	12-May-1981
ALHA79017	45	EUCRITE (POLYMICT)	REID,AM	12-May-1981
ALHA79017	46	EUCRITE (POLYMICT)	REID,AM	12-May-1981
ALHA79017	47	EUCRITE (POLYMICT)	WOODEN,J	12-May-1981
ALHA79022	8	L-3,4 CHONDRITE	KEIL,K	30-Jun-1981
ALHA79022	14	L-3,4 CHONDRITE	KEIL,K	9-Oct-1981
ALHA79022	19	L-3,4 CHONDRITE	WLOTZKA,F	28-Sep-1982
ALHA80102	52	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	53	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	54	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	55	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	56	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	57	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	58	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	59	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	60	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	61	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	62	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	63	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	64	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	65	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	66	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80102	67	EUCRITE (POLYMICT)	DRAKE,MJ	28-Sep-1982
ALHA80133	5	L-3 CHONDRITE	KEIL,K	13-Aug-1982
ALHA81001	9	EUCRITE (ANOMALOUS)	LIPSCHUTZ,ME	19-Sep-1983
ALHA81001	10	EUCRITE (ANOMALOUS)	PRINZ,M	19-Sep-1983
ALHA81003	5	CARBONACEOUS C3V	KEIL,K	16-Jun-1983
ALHA81005	4	ANORTHOSITIC BRECCIA	KEIL,K	18-Mar-1983
ALHA81006	18	EUCRITE (POLYMICT)	LIPSCHUTZ,ME	6-Oct-1983
ALHA81006	19	EUCRITE (POLYMICT)	PRINZ,M	6-Oct-1983
ALHA81006	20	EUCRITE (POLYMICT)	LIPSCHUTZ,ME	6-Oct-1983
ALHA81006	21	EUCRITE (POLYMICT)	LIPSCHUTZ,ME	6-Oct-1983
ALHA81007	5	EUCRITE (POLYMICT)	HEWINS,RH	19-Sep-1983

ALHA81007	6	EUCRITE (POLYMICT)	PRINZ,M	19-Sep-1983
ALHA81008	6	EUCRITE (POLYMICT)	PRINZ,M	19-Sep-1983
ALHA81009	16	EUCRITE	LIPSCHUTZ,ME	19-Sep-1983
ALHA81009	17	EUCRITE	PRINZ,M	19-Sep-1983
ALHA81009	18	EUCRITE	HEWINS,RH	19-Sep-1983
ALHA81010	8	EUCRITE (POLYMICT)	PRINZ,M	19-Sep-1983
ALHA81011	44	EUCRITIC BRECCIA	DRAKE,MJ	3-Dec-1983
ALHA81011	45	EUCRITIC BRECCIA	DRAKE,MJ	2-Dec-1983
ALHA81011	46	EUCRITIC BRECCIA	DRAKE,MJ	2-Dec-1983
ALHA81011	47	EUCRITIC BRECCIA	DRAKE,MJ	2-Dec-1983
ALHA81011	48	EUCRITIC BRECCIA	DRAKE,MJ	2-Dec-1983
ALHA81011	49	EUCRITIC BRECCIA	DRAKE,MJ	2-Dec-1983
ALHA81011	50	EUCRITIC BRECCIA	DRAKE,MJ	2-Dec-1983
ALHA81011	51	EUCRITIC BRECCIA	DRAKE,MJ	2-Dec-1983
ALHA81011	61	EUCRITIC BRECCIA	LIPSCHUTZ,ME	3-Mar-1981
ALHA81012	5	EUCRITE	PRINZ,M	19-Sep-1983
ALHA81015	11	H-5 CHONDRITE	LIPSCHUTZ,ME	6-Oct-1983
ALHA81021	9	E-6 CHONDRITE	MUAN,A	20-Jul-1983
ALHA81021	10	E-6 CHONDRITE	PRINZ,M	20-Jul-1983
ALHA81022	7	H-4 CHONDRITE	PRINZ,M	6-Oct-1983
ALHA81024	11	L-3 CHONDRITE	KEIL,K	21-Oct-1983
ALHA81024	12	L-3 CHONDRITE	PRINZ,M	21-Oct-1983
ALHA81025	12	L-3 CHONDRITE	KEIL,K	13-Jul-1983
ALHA81027	22	L-6 CHONDRITE	LIPSCHUTZ,ME	6-Oct-1983
ALHA81030	15	L-3 CHONDRITE	KEIL,K	25-Aug-1983
ALHA81030	16	L-3 CHONDRITE	PRINZ,M	21-Nov-1983
ALHA81031	14	L-3 CHONDRITE	KEIL,K	25-Aug-1983
ALHA81031	15	L-3 CHONDRITE	PRINZ,M	25-Aug-1983
ALHA81032	11	L-3 CHONDRITE	KEIL,K	25-Aug-1983
ALHA81032	12	L-3 CHONDRITE	PRINZ,M	25-Aug-1983
ALHA81040	10	L-4 CHONDRITE	PRINZ,M	6-Oct-1983
ALHA81044	5	H-4 CHONDRITE	PRINZ,M	6-Oct-1983
ALHA81048	9	H-4 CHONDRITE	PRINZ,M	21-Oct-1983
ALHA81059	13	MESOSIDERITE	HEWINS,RH	8-Aug-1983
ALHA81059	14	MESOSIDERITE	PRINZ,M	8-Aug-1983
ALHA81059	15	MESOSIDERITE	HEWINS,RH	8-Aug-1983
ALHA81251	14	LL-3 CHONDRITE	KEIL,K	25-Aug-1983
ALH 82101	10	CARBONACEOUS C3O	WASSON,JT	21-Nov-1983
ALH 82101	11	CARBONACEOUS C3O	MCSWEEN,HY	21-Nov-1983
BTNA78004	35	LL-6 CHON.(BRECCIATED)	KEIL,K	29-Jul-1980
BTNA78004	36	LL-6 CHON.(BRECCIATED)	KEIL,K	29-Jul-1980
EETA79001	67	SHERGOTTITE	REID,AM	3-Mar-1981
EETA79001	69	SHERGOTTITE	MCSWEEN,HY	3-Mar-1981
EETA79001	70	SHERGOTTITE	REID,AM	3-Mar-1981
EETA79001	72	SHERGOTTITE	REID,AM	3-Mar-1981
EETA79001	74	SHERGOTTITE	REID,AM	3-Mar-1981
EETA79001	76	SHERGOTTITE	REID,AM	3-Mar-1981
EETA79001	78	SHERGOTTITE	REID,AM	3-Mar-1981
EETA79001	79	SHERGOTTITE	MCSWEEN,HY	3-Mar-1981
EETA79001	80	SHERGOTTITE	MCSWEEN,HY	3-Mar-1981
EETA79001	81	SHERGOTTITE	REID,AM	3-Mar-1981
EETA79001	86	SHERGOTTITE	SMITH,JV	3-Mar-1981
EETA79001	87	SHERGOTTITE	SMITH,JV	3-Mar-1981

EETA79001	88	SHERGOTTITE	MCSWEEN,HY	3-Mar-1981
EETA79001	90	SHERGOTTITE	MCSWEEN,HY	14-May-1981
EETA79002	21	DIOGENITE	REID,AM	26-Feb-1981
EETA79002	22	DIOGENITE	HEWINS,RH	26-Feb-1981
EETA79002	23	DIOGENITE	PAPIKE,JJ	26-Feb-1981
EETA79002	24	DIOGENITE	PRINZ,M	26-Feb-1981
EETA79002	25	DIOGENITE	HEWINS,RH	11-Jul-1983
EETA79002	30	DIOGENITE	HEWINS,RH	13-Aug-1982
EETA79004	32	EUCRITE	PRINZ,M	2-Apr-1981
EETA79004	33	EUCRITE	PRINZ,M	2-Apr-1981
EETA79004	35	EUCRITE	PRINZ,M	12-May-1981
EETA79004	36	EUCRITE	PRINZ,M	12-May-1981
EETA79004	37	EUCRITE	PRINZ,M	12-May-1981
EETA79004	38	EUCRITE	PRINZ,M	12-May-1981
EETA79004	39	EUCRITE	PRINZ,M	12-May-1981
EETA79004	40	EUCRITE	PRINZ,M	12-May-1981
EETA79004	74	EUCRITE	LIPSCHUTZ,ME	6-Oct-1983
EETA79005	17	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79005	19	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79005	27	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79005	30	EUCRITE (POLYMICT)	PRINZ,M	2-Apr-1981
EETA79005	37	EUCRITE (POLYMICT)	PRINZ,M	2-Apr-1981
EETA79005	38	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79005	39	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79005	40	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79005	41	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79006	20	HOWARDITE	PAPIKE,JJ	3-Mar-1981
EETA79006	21	HOWARDITE	PAPIKE,JJ	3-Mar-1981
EETA79006	22	HOWARDITE	PAPIKE,JJ	3-Mar-1981
EETA79006	23	HOWARDITE	PAPIKE,JJ	3-Mar-1981
EETA79011	9	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79011	18	EUCRITE (POLYMICT)	PRINZ,M	2-Apr-1981
EETA79011	19	EUCRITE (POLYMICT)	PRINZ,M	2-Apr-1981
EETA79011	20	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79011	21	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
EETA79011	22	EUCRITE (POLYMICT)	PRINZ,M	12-May-1981
META78001	18	H-4 CHONDRITE	WLOTZKA,F	31-Aug-1982
META78028	34	L-6 CHONDRITE	MITRA,S	8-Jan-1981
OTTA80301	12	H-3 CHONDRITE	WLOTZKA,F	31-Aug-1982
OTTA80301	13	H-3 CHONDRITE	KEIL,K	31-Aug-1982
PCA 82500	7	CARBONACEOUS C4	KEIL,K	8-Nov-1983
RKPA78001	10	L-6 CHONDRITE	KYLE,P	7-Oct-1980
RKPA78002	17	H-4 CHONDRITE	KYLE,P	29-Jul-1980
RKPA78002	19	H-4 CHONDRITE	KYLE,P	29-Jul-1980
RKPA78002	20	H-4 CHONDRITE	KYLE,P	29-Jul-1980
RKPA78002	21	H-4 CHONDRITE	KYLE,P	29-Jul-1980
RKPA78002	26	H-4 CHONDRITE	REID,AM	3-Mar-1981
RKPA78003	14	L-6 CHONDRITE	KYLE,P	7-Oct-1980
RKPA78004	11	H-4 CHONDRITE	KYLE,P	9-Sep-1980
RKPA79008	7	L-3 CHONDRITE	KEIL,K	30-Jun-1981
RKPA80204	12	EUCRITE	HEWINS,RH	31-Aug-1982
RKPA80204	13	EUCRITE	PRINZ,M	31-Aug-1982
RKPA80205	12	H-3 CHONDRITE	KEIL,K	31-Aug-1982

RKPA80205	13	H-3 CHONDRITE	WLOTZKA,F	31-Aug-1982
RKPA80207	11	L-3 CHONDRITE	KEIL,K	31-Aug-1982
RKPA80224	4	EUCRITE (UNBRECCIATED)	HEWINS,RH	31-Aug-1982
RKPA80224	5	EUCRITE (UNBRECCIATED)	PRINZ,M	31-Aug-1982
RKPA80229	7	MESOSIDERITE	HEWINS,RH	31-Aug-1982
RKPA80239	6	UREILITE	PRINZ,M	13-Aug-1982
RKPA80246	6	MESOSIDERITE	HEWINS,RH	31-Aug-1982
RKPA80256	17	L-3 CHONDRITE	KEIL,K	6-Oct-1982
RKPA80256	18	L-3 CHONDRITE	WLOTZKA,F	6-Oct-1982
RKPA80258	1	MESOSIDERITE	PRINZ,M	31-Aug-1982
RKPA80258	5	MESOSIDERITE	HEWINS,RH	31-Aug-1982
RKPA80259	8	E-5 CHONDRITE	KEIL,K	21-Jan-1983
RKPA80263	8	MESOSIDERITE	HEWINS,RH	31-Aug-1982

SAMPLE ALLOCATIONS BY CURATORIAL ACTION

In keeping with the formal lines of responsibility, the Meteorite Working Group reviews requests for samples of Antarctic meteorites and recommends to the Meteorite Steering Group those requests that should be approved. Given MSG approval of the MWG recommendation, appropriate samples are prepared and shipped by either the Johnson Space Center (for stony and stony-iron meteorites) or by the Smithsonian Institution (for iron meteorites and splits of homogenized rock powders). The MWG recognizes that, in some cases, scientific review can be abbreviated and time can be saved by authorizing the sample curators to act directly on samples requests without their advanced review by the full committee. However, curatorial allocations are still subject to approval by the MSG.

For the information of all sample requestors, the current guidelines for curatorial allocations of meteorites by the Johnson Space Center are printed on the next page. Those guidelines represent the latest revision as approved at the March 30-April 1, 1985 meeting of the MWG.

March 30, 1985

ANTARCTIC METEORITE WORKING GROUP (MWG)
GUIDELINES FOR ALLOCATIONS BY JSC CURATOR

The following guidelines represent an updated and expanded version of Appendix 5 (p. 43) of the minutes of the September 20-23, 1979 meeting of MWG. These points set forth the conditions under which the Curator of Antarctic Meteorites at NASA/Johnson Space Center can allocate samples without review and approval by the full membership of MWG.

1. Allocation of Polished Thin Sections / Probe Mounts (PTS/PM)

Any request for a PTS/PM that is made in writing, that does not constitute an open-ended "standing" request, and that meets all of the conditions listed as 1.1 through 1.6 can be approved and filled by the Curator without consulting other members of the MWG.

1.1 Availability of the meteorite has been announced in a published issue of the Antarctic Meteorite Newsletter or catalog.

1.2 MWG has already met at least once following announcement of the meteorite as in 1.1.

1.3 Meteorite is not currently under "consortium" control or, if it is under consortium control, the consortium leader has given consent to the requested allocation.

1.4 No sawing or slabbing of meteorite is required.

1.5 No new, untreated chip of the meteorite (unless it is an ordinary chondrite) is required for PTS/PM preparation.

For an ordinary chondrite (H-, L-, or LL-group of petrologic type 4, 5, or 6), a new chip can be used to prepare a new PTS/PM if existing sections or potted butts are unavailable or unsatisfactory for the purposes of the allocation. In that case, a new PTS/PM chip can be taken if the available mass of the ordinary chondrite at JSC is $\geq$ 100 grams and the new chip represents $\leq$ 5 grams or $\leq$ 1 weight percent (whichever is less) of that available mass.

1.6 Proposed work involves only non-destructive techniques (light microscopy, carbon coating, electron-probe microanalysis, scanning electron microscopy).

2. Allocation of Sample in a Form Other Than a PTS/PM

Any request that is made in writing for a sample in a physical form other than a PTS/PM and that meets all of the following conditions, 2.1 through 2.6, can be approved and filled by the Curator if the request does not constitute an open-ended "standing" request and if the Curator receives the consent of one MWG member who is not resident at JSC.

2.1 Availability of the meteorite has been announced in a published issue of the Antarctic Meteorite Newsletter or catalog.

2.2 MWG has already met at least once following announcement of the meteorite as in 2.1.

2.3 Meteorite is not currently under "consortium" control or, if it is under consortium control, the consortium leader has given consent to the requested allocation.

2.4 No sawing or slabbing of meteorite is required.

2.5 Meteorite is an ordinary (H-, L-, or LL-group of petrologic type 4, 5, or 6) and its total available mass at JSC is $\geq$ 100 grams.

2.6 Requested allocation would comprise $\leq$ 5 grams or $\leq$ 1 weight percent (whichever is less) of the total available mass of the meteorite at JSC.

NASA-JSC