

ISSN 2433-2232(Online) JAXA-SP-23-007E

# **JAXA Special Publication**

## Hayabusa2 Asteroid Sample Catalog 2023

January 2024

Japan Aerospace Exploration Agency

JAXA-SP-23-007E Hayabusa2 Asteroid Sample Catalog 2023

### **CONTENTS**

Hayabusa2-returned sample catalog 2023

## Hayabusa2-returned sample catalog 2023

MIYAZAKI Akiko, YADA Toru, NISHIMURA Masahiro, ABE Masanao, OKADA Tatsuaki, YOGATA Kasumi, SAKAMOTO Kanako, NAGASHIMA Kana, KANEMARU Rei, TAHARA Rui, NAKANO Arisa, OJIMA Tomoko, FUKAI Ryota, ISHIZAKI Takuya, HATAKEDA Kentaro, KUMAGAI Kazuya, HITOMI Yuya, SOEJIMA Hiromichi, SUGIYAMA Yuka, NAKATA Ayako, ENOKIDO Yuma, SUGAHARA Haruna, SUZUKI Shino, TACHIBANA Shogo and USUI Tomohiro

Astromaterials Science Research Group, Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency, 3-1-1, Yoshinodai, Chuo-ku, Sagamihara, Kanagawa 252-5210, JAPAN.

This catalog aims to present the latest sample list published on the Ryugu Sample Database (<u>https://darts.isas.jaxa.jp/curation/hayabusa2/</u>, ASRG et al., 2022) and Hayabusa2 related curatorial activities from November 2022 to November 2023.

#### 1. Ryugu Sample Inventory

As of November 2023, we picked up samples a total of 3.1 g from 5.4 g of the total recovered sample. The Ryugu Sample Database has recorded 2,209 samples, comprising 21 parent bulk samples numbered A90\*\* or B90\*\* or C90\*\*, 1027 individual grains and particle aggregates subdivided from the parent bulk samples, 1134 returned samples allocated to Initial Analyses

Teams (IA) and the Phase 2 Kochi team (Ph2K), and 27 gas samples (Table 1 and Appendix). There are 840 undistributed with unprocessed samples, progress is 188 samples from the 2022 sample catalog (Yada et al., 2023a).

	Total	Chamber				
	Total	А	В	С		
Aggregate (Parent Bulk)	21	11	2	6		
Aggregate	69	41		28		
Particle	950	546		404		
Previously allocated	1134	Returned from IA 1058	Returned from Ph2K 76			
Gas (Parent Bottle)	6					
Gas (sub-divided)	21					
Artificial objects	8					
Ground Total	2209					

Table 1. Inventory of the Ryugu Sample Database

Samples distributed outside of the AO are shown in Table 2. Of these, the Initial Analysis team completed their analyses and returned all the available samples in 2022, and the Phase 2 Kochi team also returned all the samples in 2023. The returned samples have been re-registered in the database as the previously allocated samples. They are included as potential candidates that could be re-distributed to the science communities via the AO. On the other hand, the samples provided to NASA based on the MOU will remain under the management of NASA, and a few samples to the outreach at JAXA have been dedicated for the exhibition.

	Particle	Aggregate	Gas
Initial Analysis	21	10	10
Phase 2 Kochi	12	5	-
Phase 2 Misasa	16	-	-
NASA	24	4	-
Outreach	7	-	-

Table 2. Status of Ryugu Sample Distribution Outside of the AO

#### 2. The Announcement of Opportunity for Hayabusa2 samples

The Announcement of Opportunity (AO) for Ryugu samples has been held biannually, and three AOs have finished so far and 245 Ryugu particles and aggregates were allocated. The sample request of the fourth AO has just closed in October 2023 and is currently under review.

The first AO allocated 74 particles to 40 out of 57 proposals (Table 3). The second AO distributed 53 particles and 10 aggregate samples to 38 out of 47 proposals. The third AO allocated 13 particles and 10 aggregate samples to 17 out of 23 proposals. Since the second AO, the allocation has expanded beyond pristine particles and aggregates to include the previously allocated samples. The second AO was the first time the gas samples were approved for distribution to the selected proposal.

10	Prop	osals	Allocated Samples						
AO	Submitted	Accepted	Pa	Particle		gregate	Gas	Previously Allocated Sample	
1st	57	40	74	229.04mg	-	-	0	-	
2nd	47	38	53	102.04 mg	10	115.16 mg	0	132	
3rd	23	17	12	34.66 mg	10	82.38 mg	5	23	

Table 3. Number of proposals and acceptances, and quantity of samples distributed from the first to the third AO.

The total mass of the samples allocated from AO1 to AO3 is 563.7 mg, achieving the target allocation volume initially established by the Hayabusa2 Sample Allocation Committee (HSAC). This target represents 15% of the total mass of the returned sample, which is approximately 750 mg.

#### 3. Curatorial Activities Update

#### **3-1. Initial Description**

To improve the microscopic observation process in the initial description, we have replaced the light source from a dual-arm LED with an LED ring light. This change was implemented to prevent variable light intensity and reflection caused by the position of the previous light source. The new LED ring light effectively eliminates color inconsistencies and ensures a consistent brightness level in the photographs of the samples. This improvement enhances the quality of images for the sample catalog.

#### 3-2. Database System

The Ryugu Database system had a minor update. An identifier of the sample cleanliness level with a brief description has been published. The cleanliness level is indicated as either Class-1 or Class-2. Following the class number, three capital letters enclosed in a bracket describe the environmental conditions the sample has been exposed to, with three ranks from A to C. For example, "Class-1 (AAA)" describes the best conditions (Nishimura et al., 2023).

#### 3-3. Sample Containers

We have identified two issues with the sample containers:

- 1) Small rasp spots have been found on the surface of some sample dish holders and their respective containers.
- 2) Some users have reported that the distributed transfer container, known as the facility-tofacility transfer container (FFTC), has experienced air leaks.

In response, we have implemented the following countermeasures:

- 1) We investigated the cause of the rasp spots and adjusted the manufacturing process of the containers, which included adding surface polishing to prevent these spots.
- 2) We assessed the atmospheric sealing capability of some FFTCs using an oxygen meter. Our findings indicate that air leaks in some FFTCs may be due to poor alignment or fit. Consequently, we are considering a redesign of the FFTC. Maintaining the environment inside the container at an oxygen level below 1% for ten days at least is essential for qualified distribution. As a temporary measure, each FFTC has been sealed in a vinyl bag filled with pure nitrogen gas before shipment. Furthermore, we can alternatively use the FFTC designed for Itokawa samples. This FFTC utilizes the NW flange system, renowned for its reliable atmospheric hold.

#### 4. Research Activities

From October 2022 to 2023, we have published several papers in two areas - the curation facility, activities, and database, and scientific results derived from the initial description conducted at the facility. In the former area, we have two technical papers presenting a general overview of the Hayabusa2 curation facility and environment (Yada et al., 2023b) and the Ryugu Sample Database (Nishimura et al., 2023). In the latter, we published full research papers focusing on specific topics. These topics include the morphology classification based on optical microscope observations on the Ryugu surface (Nakato et al., 2023), Fourier-Transform Infrared Spectroscopy (FT-IR), and Principal Component Analysis (PCA) of more than 100 Ryugu samples (Hatakeda et al., 2023), and estimations of average bulk density of Ryugu samples using a new approach (Miyazaki et al., 2023). We also examined the samples found outside the sample container upon return (called Q samples) and confirmed their origin –Ryugu (Nakato et al., 2022).

#### References

Astromaterials Science Research Group, Institut d'Astrophysique Spatiale, Universite Paris-Saclay, CNES, Yumoto K, Yabe Y, Cho Y, Sugita S (2022) Hayabusa2, Ryugu Sample Curatorial Dataset. https://doi.org/10.17597/ISAS.DARTS/CUR-Ryugu-description

Hatakeda K, Yada T, Abe M, Okada T, Nakato A, Yogata K, Miyazaki A, Kumagai K, Nishimura M, Hitomi Y, Soejima H, Nagashima K, Yoshitake M, Iwamae A, Furuya S, Usui T, Kitazato K (2023) Homogeneity and heterogeneity in near-infrared FTIR spectra of Ryugu returned samples. Earth, Planets and Space 75:46. <u>https://doi.org/10.1186/s40623-023-01784-w</u>

Miyazaki A, Yada T, Yogata K, Hatakeda K, Nakato A, Nishimura M, Nagashima K, Kumagai K, Hitomi Y, Soejima H, Tahara R., Kanemaru R, Nakano A, Yoshitake M, Iwamae A, Furuya S, Tsuchiyama A, Tachibana S, Michikami T, Okada T, Abe M, Usui M (2023) A newly revised estimation of bulk densities and examination of the shape of individual Ryugu grains. Earth, Planets and Space 75:171. <u>https://doi.org/10.1186/s40623-023-01904-6</u>

Nakato A, Inada S, Furuya S, Nishimura M, Yada T, Abe M, Usui T, Yoshida H, Mikouchi T, Sakamoto K, Yano H, Miura YN, Takano Y, Yamanouchi S, Okazaki R, Sawada H, Tachibana S (2022) Ryugu particles found outside the Hayabusa2 sample container. Geochem J 56:6. https://doi.org/10.2343/geochemj.GJ22017

Nakato A, Yada T, Nishimura M, Yogata K, Miyazaki A, Nagashima K, Hatakeda K, Kumagai K, Hitomi Y, Soejima H, Bibring JP, Pilorget C, Hamm V, Brunetto R, Riu L, Lourit L, Loizeau D, Le Pivert-Jolivet T, Lequertier G, Moussi-Soffys A, Abe M, Okada T, Usui T, Nakazawa S, Saiki T, Tanaka S, Terui F, Yoshikawa M, Watanabe S, Tsuda Y (2023) Variations of the surface characteristics of Ryugu returned samples. Earth Planets Space.75:45. <u>https://doi.org/10.1186/s40623-022-01754-8</u>

Nishimura M, Nakato A, Abe M, Nagashima K, Soejima H, Yada T, Yogata K, Miyazaki A, Hatakeda K, Yoshitake M, Iwamae A, Pilorget C, Brunetto R, Loizeau D, Bibring JP, Riu L, Yumoto K, Cho Y, Yabe Y, Sugita S, Ito M, Okada T, Tachibana S, Usui T (2023) Ryugu Sample Database System (RS-DBS) on the Data Archives and Transmission System (DARTS) by the JAXA curation. Earth Planets and Space 75:131. <u>https://doi.org/10.1186/s40623-023-01887-4</u>

Yada T, Nishimura M, Abe M, Okada T, Yogata K, Sakamoto K, Miyazaki A, Nagashima K, Kanemaru R, Tahara R, Nakano A, Ozima T, Fukai R, Ishizaki T, Hatakeda K, Kumagai K,

Hitomi Y, Soejima H, Sugiyama Y, Sugahara H, Suzuki S, Tachibana S, Usui T (2023a) JAXA-SP-22-004E, p. 1-63, 2023-01-20. <u>https://doi.org/10.20637/00049025</u>

Yada T, Abe M, Nishimura M, Sawada H, Okazaki R, Takano Y, Sakamoto K, Okada T, Nakato A, Yoshitake M, Nakano Y, Yogata K, Miyazaki A, Furuya S, Iwamae AS, Nakatsubo S, Hatakeda K, Hitomi Y, Kumagai K, Suzuki S, Miura YN, Ito M, Tomioka N, Uesugi M, Karouji Y, Uesugi K, Shirai N, Yamaguchi A, Imae N, Naraoka H, Yamamoto Y, Tachibana S, Yurimoto H, Usui T (2023b) A curation for uncontaminated Hayabusa2-returned samples in the extraterrestrial curation center of JAXA: from the beginning to present day. Earth, Planets and Space 75:170. https://doi.org/10.1186/s40623-023-01924-2

### Appendix

Appendix Table 1a. Ryugu sample list (particles and aggregate samples). Remarks: Size: maximum Feret diameter of a particle; Weight: latest weight of a sample.

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0001	particle	5.13	18.1	MicrOmega, FTIR		
A0002	particle	4 09	19.3	MicrOmega, FTIR	Ph2-Kochi	COSUMED
A0003	particle	4 31	19.6	FTIR	Th2 Room	CODUMED
40004	particle	4 04	14.8	FTIR		
10001	putticle	1.01	11.0	MicrOmega FTIR		
A0005	particle	3.37	10.2	Multiband Image.	NASA	TRANSFER
	F		- • · -	Stereo Image		
A0006	particle	2.89	6.3	FTIR		
	<b>.</b>			MicrOmega, FTIR,		
A0007	particle	4.83	14.9	Multiband Image,	NASA	TRANSFER
	_			Stereo Image		
				MicrOmega, FTIR,		
A0008	particle	3.86	10.2	Multiband Image,	AO1	
				Stereo Image		
4.0000		2 10	0.2	MicrOmega, FTIR,		
A0009	particle	3.10	9.2	Multiband Image,	AOI	
40010	mantiala	2 22	11.0	MarQuere ETID		
A0010	particle	3.32	12.2	MicrOmega, FTIK		
A0011	particle	4.94	13.3	FTIR		
A0012	particle	2.91	8.0	FIIR		
40012	mantiala	2.00	20	MicrOmega, FTIR,	NACA	TDANCEED
A0015	particle	2.09	2.0	Stereo Image,	NASA	IKANSFER
A0014	narticle	3 02	8.8	FTIR		
A0014	particle	3.92	0.0	MicrOmega FTIR		
A0015	particle	3 41	14.6	Multiband Image.	NASA	TRANSFER
110010	pulliole	5.11	11.0	Stereo Image	1111011	THE HOLEN
				MicrOmega, FTIR,		
A0016	particle	4.91	14.1	Multiband Image,	AO1	ON-LOAN
	_			Stereo Image		
A0017	particle	3.75	8.4	MicrOmega, FTIR		
A0018	particle	3.93	12.6	MicrOmega, FTIR		
A0019	particle	3.53	6.9	FTIR		
A0020	particle	3.79	6.5	MicrOmega, FTIR		
				MicrOmega, FTIR,		
A0021	particle	4.83	25.8	Multiband Image,		
				Stereo Image		
A0022	particle	2.81	6.3	MicrOmega, FTIR	Ph2-Misasa	ON-LOAN
A0023	particle	3.38	6.7	MicrOmega, FTIR		
A0024	particle	3.15	10.3	MicrOmega, FTIR		
A0025	particle	3.05	7.8	MicrOmega, FTIR		
A0026	particle	3.00	3.9	MicrOmega, FTIR	IA	CONSUMED
A0027	particle	4.78	10.2	MicrOmega, FTIR		
				MicrOmega, FTIR,		
A0028	particle	3.28	8.2	Multiband Image,	AO3	
				Stereo Image		
A0029	particle	3.07	7.3	MicrOmega, FTIR	Ph2-Kochi	COSUMED
		• • •		MicrOmega, FTIR,		
A0030	particle	2.84	6.9	Multiband Image,	AO1	ON-LOAN
				Stereo Image		

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0031	particle	3.11	3.9	MicrOmega, FTIR		
A0032	particle	2.27	3.3	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
A0033	particle	2.41	4.0	MicrOmega, FTIR	Ph2-Misasa	ON-LOAN
A0034	particle	2.16	2.1	MicrOmega, FTIR, Multiband Image, Stereo Image		
A0035	particle	2.10	2.7	MicrOmega, FTIR	Ph2-Misasa	ON-LOAN
A0036	particle	2.85	3.3	MicrOmega, FTIR		
A0037	particle	3.13	6.0	MicrOmega, FTIR	Ph2-Kochi	COSUMED
A0038	particle	2.40	3.1	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
A0039	particle	2.46	3.9	MicrOmega, FTIR		
A0040	particle	2.60	3.0	MicrOmega, FTIR	IA	CONSUMED
A0041	particle	2.74	3.5	MicrOmega, FTIR		
A0042	particle	3.78	11.9	MicrOmega, FTIR		
A0043	particle	3.56	4.9	MicrOmega, FTIR		
A0044	particle	2.66	4.2	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
A0045	particle	2.81	2.9	MicrOmega, FTIR		
A0046	particle	3.78	17.9	MicrOmega, FTIR		
A0047	particle	2.57	6.8	MicrOmega, FTIR		
A0048	particle	3.73	3.0	MicrOmega, FTIR	Ph2-Misasa	ON-LOAN
A0049	particle	3.17	4.0	MicrOmega, FTIR		
A0050	particle	2.62	3.5	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
A0051	particle	3.17	3.5	MicrOmega, FTIR, Multiband Image, Stereo Image		
A0052	particle	2.45	3.0	FTIR		
A0053	particle	3.10	5.0	FTIR		
A0054	particle	2.58	3.1	MicrOmega, FTIR, Multiband Image, Stereo Image		
A0055	particle	2.54	5.9	MicrOmega, FTIR	IA	CONSUMED
A0056	particle	2.11	3.1	FTIR		
A0057	particle	2.31	4.1	FTIR		
A0058	particle	3.09	3.3	MicrOmega, FTIR	IA	CONSUMED
A0059	particle	3.47	7.7	FTIR		
A0060	particle	3.46	5.4	FTIR		
A0061	particle	3.07	4.5	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
A0062	particle	3.20	8.6	MicrOmega, FTIR		
A0063	particle	2.77	3.8	MicrOmega, FTIR	IA	CONSUMED
A0064	particle	2.95	6.7	MicrOmega, FTIR	IA	CONSUMED
A0065	particle	2.45	2.3			

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0066	particle	2.97	4.3	MicrOmega, FTIR, Multiband Image, Stereo Image	AO2	ON-LOAN
A0067	particle	3.11	3.6	MicrOmega, FTIR	IA	CONSUMED
A0068	particle	3.05	6.0	FTIR		
A0069	particle	2.65	3.2	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
A0070	particle	2.28	2.0	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
A0071	particle	2.11	0.8			
A0072	particle	1.84	0.7			
A0073	particle	1.48	0.8	MicrOmega	Ph2-Misasa	ON-LOAN
A0074	particle	1.63	0.9			
A0075	particle	1.16	0.7			
A0076	particle	1.31	0.6			
A0077	particle	1.85	0.4			
A0078	particle	2.62	1.8	MicrOmega, FTIR	Ph2-Misasa	ON-LOAN
A0079	particle	1.36	0.8	MicrOmega, Multiband Image, Stereo Image	AO1	ON-LOAN
A0080	particle	1.57	1.4	MicrOmega	IA	CONSUMED
A0081	particle	1.43	0.6			
A0082	particle	1.59	0.6			
A0083	particle	1.72	1.2	MicrOmega, Multiband Image, Stereo Image	AO1	ON-LOAN
A0084	particle	2.38	1.0	MicrOmega, Multiband Image		
A0085	particle	1.23	0.7	MicrOmega	Ph2-Misasa	ON-LOAN
A0086	particle	1.62	0.9	MicrOmega	IA	CONSUMED
A0087	particle	1.67	0.8			
A0088	particle	1.71	1.7	MicrOmega, FTIR, Multiband Image		
A0089	particle	1.60	1.0	MicrOmega	IA	ON-LOAN
A0090	particle	2.01	1.3			
A0091	particle	2.59	3.5	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
A0092	particle	2.41	2.6	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
A0093	particle	2.00	1.6	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
A0094	particle	2.42	1.8	MicrOmega	IA	CONSUMED
A0095	particle	2.50	2.6	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
A0096	particle	2.96	7.6	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
A0097	particle	2.26	4.6	FTIR		

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0098	particle	1.87	1.9	MicrOmega, FTIR	Ph2-Kochi	COSUMED
A0099	particle	2.21	1.8	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
A0100	narticle	2 55	2.1	FTIR		
A0101	particle	3.07	4.5	FTIR		
A0102	particle	2.78	4.6	FTIR		
A0103	particle	2.76	4.2	MicrOmega FTIR		
A0104 (Aa- MPF)	aggregate	2.00	0.3	MicrOmega	IA	CONSUMED
A0105 (Aa- VOL)	aggregate		4.0	MicrOmega, FTIR	IA	CONSUMED
A0106 (Aa- MPC)	aggregate		38.4	MicrOmega, FTIR	IA	CONSUMED
A0107 (Aa- Chem)	aggregate		31.0	FTIR	IA	CONSUMED
A0108 (Aa- IOM)	aggregate		3.5	MicrOmega, FTIR	ΙΑ	CONSUMED
A0109	particle	2.24	4.0	FTIR		
A0110	particle	3.27	7.9	FTIR		
A0111	particle	3.69	8.5	FTIR		
A0112	particle	3.05	5.1	MicrOmega, FTIR, Multiband Image	AO1	
A0113	particle	3.78	6.8	FTIR		
A0114	particle	2.39	5.2	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0115	particle	2.98	7.2	FTIR		
A0116	particle	2.20	2.9	FTIR	Outreach	
A0117	particle	3.02	4.2	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0118	particle	2.58	4.3	MicrOmega, FTIR		
A0119	particle	2.66	4.9	MicrOmega, FTIR, Multiband Image	AO1	
A0120	particle	2.35	4.2	MicrOmega, FTIR		
A0121	particle	2.71	3.3	MicrOmega, FTIR		
A0122	particle	2.42	3.2	FTIR		
A0123	particle	2.81	4.7	MicrOmega, FTIR, Multiband Image	AO1	
A0124	particle	2.25	4.0	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0125	particle	2.59	4.1	FTIR		
A0126	particle	1.88	2.4	FTIR		
A0127	particle	2.58	3.4	FTIR		
A0128	particle	2.36	1.5	FTIR		
A0129	particle	1.32	1.0			
A0130	particle	1.77	1.4	MicrOmega, Multiband Image	AO1	ON-LOAN
A0131	particle	2.45	3.8	FTIR		
A0132	particle	2.41	2.7	FTIR		
A0133	particle	2.61	4.1	FTIR		
A0134	particle	2.38	1.2	FTIR		
A0135	particle	2.80	3.1	FTIR		

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0136	particle	2.64	4.8	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0137	particle	2.38	2.7	FTIR		
A0138	particle	2.27	2.4	FTIR		
A0139	particle	3.23	2.1	MicrOmega, FTIR, Multiband Image		
A0140	particle	2.51	2.2	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0141	particle	2.58	3.9	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0142	particle	2.73	1.6	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0143	particle	4.33	8.2	FTIR		
A0144	particle	2.15	4.4	FTIR		
A0145	particle	2.46	3.3	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0146	particle	2.61	3.3	FTIR		
A0147	particle	2.36	3.1	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0148	particle	2.05	3.1	FTIR		
A0149	particle	2.04	1.8	FTIR		
A0150	particle	2.05	2.2	FTIR		
A0151	particle	2.77	3.9	FTIR		
A0152	particle	2.03	2.1	MicrOmega, FTIR, Multiband Image	AO1	
A0153	particle	2.26	4.1	FTIR		
A0154	particle	2.18	3.2	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0155	particle	2.19	1.6	FTIR		
A0156	particle	2.47	3.7	FTIR		
A0157	particle	1.96	2.4			
A0158	particle	1.95	2.9	FTIR		
A0159	particle	2.84	3.4	MicrOmega, FTIR, Multiband Image	AO1	
A0160	particle	1.83	2.1			
A0161	particle	2.27	2.5	FTIR	Outreach	ON-LOAN
A0162	particle	2.41	3.8	FTIR		
A0163	particle	2.28	1.9	MicrOmega, FTIR, Multiband Image		
A0164	particle	2.34	2.6	FTIR		
A0165	particle	2.16	1.8	FTIR		
A0166	particle	2.55	2.7	FTIR		
A0167	particle	2.38	2.8	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0168	particle	2.01	2.8	MicrOmega, FTIR, Multiband Image		
A0169	particle	1.84	2.4	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0170	particle	2.09	1.3			
A0171	particle	1.96	2.3	FTIR		
A0172	particle	1.84	2.1		Outreach	ON-LOAN
A0173	particle	1.96	2.3	FTIR		
A0174	particle	2.35	3.1	FTIR		

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0175	particle	2.33	1.5	MicrOmega, Multiband Image	AO1	ON-LOAN
A0176	particle	2.45	1.8	FTIR		
A0177	particle	1.52	1.1	MicrOmega, Multiband Image		
A0178	particle	1.56	0.7			
A0179	particle	1.47	1.3			
A0180	particle	1.59	0.8	MicrOmega, Multiband Image	AO1	ON-LOAN
A0181	particle	1.96	1.5	MicrOmega, Multiband Image		
A0182	particle	1.94	1.4	Multiband Image	Ph2-Kochi	COSUMED
A0183	particle	1.46	1.0	Multiband Image	Ph2-Kochi	COSUMED
A0184	particle	1.31	1.0	MicrOmega, Multiband Image		
A0185	particle	1.95	0.9			
A0186	particle	1.39	0.9	MicrOmega, Multiband Image	AO1	
A0187	particle	1.79	0.7			
A0188	particle	1.40	0.4	MicrOmega, Multiband Image	AO1	
A0189	particle	1.35	0.4			
A0190	particle	1.37	0.4			
A0191	particle	1.64	0.5			
A0192	particle	1.81	0.3			
A0193	particle	1.33	0.4			
A0194	particle	1.56	0.5	MicrOmega, Multiband Image	AO1	
A0195	particle	1.77	0.2			
A0196	particle	2.51	3.2	FTIR		
A0197	particle	2.02	1.7			
A0198	particle	2.16	2.9	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0199	particle	1.97	2.2	MicrOmega, FTIR, Multiband Image		
A0200	particle	2.40	2.2	FTIR		
A0201	particle	2.11	1.5	FTIR		
A0202	particle	2.85	2.5	FTIR		
A0203	particle	1.90	1.8	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0204	particle	2.42	2.5	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0205	particle	1.97	2.1	FTIR		
A0206	particle	2.06	3.1	FTIR		
A0207	particle	2.02	2.7	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0208	particle	3.50	10.9	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
A0209	particle	3.67	15.6	FTIR		
A0210	particle	2.09	1.3	MicrOmega, Multiband Image	AO1	ON-LOAN
A0211	particle	2.29	2.8	FTIR		
A0212	particle	1.83	1.0			

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0213	particle	2.00	2.3			
A0214	particle	2.06	1.5			
A0215	particle	2.08	1.3			
A0216	aggregate		54.2	MicrOmega, FTIR	NASA	TRANSFER
A0217	aggregate		133.1	MicrOmega, FTIR	NASA	TRANSFER
A0218	aggregate		13.1	FTIR, Multiband Image	Ph2-Kochi	COSUMED
A0219	aggregate		12.6	FTIR, Multiband Image	Ph2-Kochi	COSUMED
A0220	aggregate		11.5	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0221	aggregate		13.9	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0222	aggregate		12.0	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0223	aggregate		8.3	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0224	aggregate		10.7	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0225	aggregate		11.6	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0226	particle	2.29	1.9	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0227	particle	2.09	2.7			
A0228	particle	2.37	2.5			
A0229	particle	2.67	2.4	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0230	particle	1.71	1.8			
A0231	particle	2.41	2.2			
A0232	particle	2.33	1.9	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0233	particle	2.46	1.2			
A0234	particle	2.07	2.5			
A0235	particle	2.60	2.1	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0236	particle	2.03	2.7			
A0237	particle	2.01	2.5			
A0238	particle	2.50	1.9	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0239	particle	2.03	1.7			
A0240 A0241	particle particle	2.09 2.14	2.4	MicrOmega, FTIR,	AO2	ON-LOAN
A0242	narticle	2.06	0.8	Wultibalid linage		
A0243	particle	2.04	2.1			
A0244	particle	1.98	1.1	MicrOmega, Multiband Image	AO2	
A0245	particle	2.07	1.5	6		
A0246	particle	1.86	1.4			
A0247	particle	2.02	2.3	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0248	particle	1.79	1.4			
A0249	particle	1.91	2.1			

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0250	particle	2.80	2.4	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0251	particle	2.23	2.3			
A0252	particle	2.18	2.2			
A0253	particle	1.55	1.9	MicrOmega, Multiband Image	AO2	
A0254	particle	1.87	2.2			
A0255	particle	1.75	1.7			
A0256	particle	1.90	2.5	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0257	particle	2.02	1.6			
A0258	particle	1.87	2.0			
A0259	particle	2.17	1.6	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0260	particle	1.74	1.1			
A0261	particle	1.94	2.0			
A0262	particle	1.90	2.0	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0263	particle	2.17	1.9			
A0264	particle	1.79	1.9			
A0265	particle	1.80	1.4	MicrOmega, Multiband Image	AO2	
A0266	particle	1.90	1.5			
A0267	particle	2.44	1.9			
A0268	particle	1.89	2.1	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0269	particle	1.95	2.2			
A0270	particle	2.14	1.5			
A0271	particle	1.79	2.0	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0272	particle	1.82	1.5			
A0273	particle	1.84	1.7			
A0274	particle	2.07	1.4	MicrOmega, Multiband Image	AO2	ON-LOAN
A0275	particle	2.04	2.0			
A0276	particle	3.04	4.4			
A0277	particle	1.82	2.0	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0278	particle	1.91	1.7			
A0279	particle	2.24	2.3	FTIR		
A0280	particle	2.46	1.8	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0281	particle	2.18	1.7			
A0282	particle	2.85	4.1			
A0283	particle	2.26	2.5	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0284	particle	2.27	2.4			
A0285	particle	1.64	1.4			
A0286	particle	1.93	2.4	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0287	particle	1.97	1.7			
A0288	particle	1.94	1.4	MicrOmega, Multiband Image	AO2	ON-LOAN

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0289	particle	1.83	1.9			
A0290	particle	2.13	1.3			
A0291	particle	2.19	2.5			
A0292	particle	1.73	1.5	MicrOmega, Multiband Image	AO2	ON-LOAN
A0293	particle	2.16	2.6	_		
A0294	particle	1.90	0.9			
A0295	particle	1.81	1.4	MicrOmega, Multiband Image	AO2	ON-LOAN
A0296	particle	1.73	1.2			
A0297	particle	2.15	1.1			
A0298	particle	1.54	1.3	MicrOmega, Multiband Image	AO2	ON-LOAN
A0299	particle	1.57	1.2			
A0300	particle	1.30	0.6			
A0301	particle	2.07	1.8	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0302	particle	1.79	1.4			
A0303	particle	1.93	1.4			
A0304	particle	1.70	1.6	MicrOmega, Multiband Image	AO2	ON-LOAN
A0305	particle	1.72	1.1			
A0306	particle	1.71	1.6	Multiband Image		
A0307	particle	2.13	2.1	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0308	particle	1.90	2.1		Outreach	ON-LOAN
A0309	particle	1.69	0.9			
A0310	particle	1.75	1.4	MicrOmega, Multiband Image	AO2	ON-LOAN
A0311	particle	1.82	1.9			
A0312	particle	1.83	1.3			
A0313	particle	2.40	1.9	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
A0314	particle	1.66	1.1			
A0315	particle	1.63	1.3			
A0316	particle	1.63	1.0			
A0317	particle	1.94	1.4			
A0318	particle	2.22	1.3			
A0319	particle	1.83	1.5			
A0320	particle	2.18	0.8			
A0321	particle	1.94	1.3			
A0322	particle	1.57	1.8			
A0323	particle	1.64	1.4			
A0324	particle	1.74	0.7			
A0325	particle	1.55	0.9			
AU326	particle	1./5	1.3		102	
AU327	particle	1.80	1.5		AU3	
A0328	particle	1./0	1.5			
A0329	particle	1.54	1.1			
A0330	particle	1.39	1.0			
A0332	particle	1.05	1.5			
110332	Particle	1.J <sup>-</sup> T	1.2			

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0333	particle	2.21	1.6			
A0334	particle	2.21	1.1		AO3	
A0335	particle	2.07	1.4			
A0336	particle	2.25	1.7			
A0337	particle	1.46	1.6			
A0338	particle	2.15	1.7			
A0339	particle	1.81	1.2			
A0340	particle	1.72	0.7			
A0341	particle	1.46	1.1		AO3	
A0342	particle	1.78	1.2			
A0343	particle	1.82	1.8			
A0344	particle	1.91	1.7			
A0345	particle	1.74	1.1			
A0346	particle	1.64	1.3			
A0347	particle	1.99	1.5			
A0348	particle	1.72	1.6			
A0349	particle	1.66	1.1			
A0350	particle	1.77	1.4			
A0351	particle	1.71	1.4			
A0352	particle	1.94	1.9			
A0353	particle	1.68	1.2			
A0354	particle	1.72	1.6			
A0355	particle	1.57	0.9	MicrOmega		
A0356	particle	1.75	1.3			
A0357	particle	1.57	0.8			
A0358	particle	1.46	1.3			
A0359	particle	1.42	1.5			
A0360	particle	1.70	0.9			
A0361	particle	1.42	1.0			
A0362	particle	1.94	0.7	MicrOmega	AO3	
A0363	particle	1.62	1.5			
A0364	particle	2.07	0.9			
A0365	particle	1.62	1.1			
A0366	particle	1.85	1.4			
A0367	particle	1.68	1.0			
A0368	particle	1.77	0.9			
A0369	particle	1.64	0.8	MicrOmega		
A0370	particle	1.50	0.7			
A0371	particle	1.49	0.9			
A0372	particle	1.75	0.9			
A0373	particle	1.72	0.9			
A0374	particle	1.66	0.9			
A0375	particle	1.59	0.7			
A0376	particle	1.76	0.7			
A0377	particle	1.45	0.8			
A0378	particle	1.61	1.1			
A0379	particle	1.80	0.8			
A0380	particle	1.52	0.7			
A0381	particle	1.67	0.8			
A0382	particle	1.43	0.6			

Sample name	Samenla farma	Size	Weight	Initial Decomintion	Distribution	Status
Sample name	Sample form	(mm)	(mg)	Initial Description	Distribution	Status
A0383	particle	1.74	0.8			
A0384	particle	1.69	0.9			
A0385	particle	1.64	1.3			
A0386	particle	1.36	0.9			
A0387	particle	1.17	0.5			
A0388	particle	1.79	0.8			
A0389	particle	1.10	0.4			
A0390	particle	1.75	1.1			
A0391	particle	1.69	0.7			
A0392	particle	1.45	1.0			
A0393	particle	1.44	0.3			
A0394	particle	1.62	1.0			
A0395	particle	1.16	0.6			
A0396	particle	1.86	0.9			
A0397	particle	1.62	1.2		AO3	
A0398	particle	1.84	0.9			
A0399	particle	1.61	1.4			
A0400	particle	1.51	0.8			
A0401	particle	2.24	1.1			
A0402	particle	1.53	1.0			
A0403	particle	1.62	1.6			
A0404	particle	1.87	1.9		AO3	
A0405	particle	1.41	1.1			
A0406	particle	1.53	1.3			
A0407	particle	1.38	0.9			
A0408	particle	1.76	1.3			
A0409	particle	1.47	1.1			
A0410	particle	1.36	0.8			
A0411	particle	1.67	0.5			
A0412	particle	1.40	0.8			
A0413	particle	1.47	0.8			
A0414	particle	1.57	0.7			
A0415	particle	1.44	0.9			
A0416	particle	1.65	0.4			
A0417	particle	1.72	0.7			
A0418	particle	1.61	0.6			
A0419	particle	1.30	0.6			
A0420	particle	1.80	0.7			
A0421	particle	1.72	0.7			
A0422	particle	1.63	0.4			
A0423	particle	1.94	1.2			
A0424	particle	1.78	0.7			
A0425	particle	1.25	0.6			
A0426	particle	1.25	0.4			
A0427	particle	1.68	0.7			
A0428	particle	1.62	0.4			
A0429	particle	2.10	0.3			
A0430	particle	1.52	0.4			
A0431	particle	1.09	0.4			
A0432	particle	1.34	0.6			

Sample name	Sample form	Size	Weight	Initial Description	Distribution	Status
		(mm)	(mg)			
A0433	particle	1.36	0.5			
A0434	particle	1.22	0.4			
A0435	particle	1.4/	0.3			
A0436	particle	1.50	0.6			
A0437	particle	1.33	0.4			
A0438	particle	1.18	0.4			
A0439	particle	1.34	0.5			
A0440	particle	1.28	0.4			
A0441	particle	1.20	0.4			
A0442	particle	1.57	0.6			
A0443	particle	1.58	0.7			
A0444	particle	1.44	0.4			
A0445	particle	1.56	0.6			
A0446	particle	1.17	0.6			
A0447	particle	1.23	0.6			
A0448	particle	1.35	0.3			
A0449	particle	1.31	0.3			
A0450	particle	1.13	0.5			
A0451	particle	1.20	0.6			
A0452	particle	1.20	0.7			
A0453	particle	1.25	0.3			
A0454	particle	1.47	0.4			
A0455	particle	1.36	0.4			
A0456	particle	1.48	0.9			
A0457	particle	1.80	0.5			
A0458	particle	1.77	0.7			
A0459	particle	1.40	1.0			
A0460	particle	1.61	0.9			
A0461	particle	1.79	0.8			
A0462	particle	1.47	1.0			
A0463	particle	1.38	0.5			
A0464	particle	1.62	0.8			
A0465	particle	1.62	1.0			
A0466	particle	1.34	0.9			
A0467	particle	1.63	0.7			
A0468	particle	1.74	0.9			
A0469	particle	1.84	1.3			
A0470	particle	1.40	0.7			
A0471	particle	1.54	1.1			
A0472	particle	1.10	0.7			
A0473	particle	1.32	0.3			
A0474	aggregate		5.7	FTIR		
A0475	aggregate		5.7	FTIR		
A0476	aggregate		5.1	FTIR		
A0477	aggregate		4.9	FTIR	AO3	
A0478	aggregate		5.7	FTIR	AO3	
A0479	aggregate		6.0	FTIR	AO3	
A0480	aggregate		11.9	FTIR	AO3	
A0481	aggregate		10.0	FTIR	AO3	
A0482	aggregate		13.1	FTIR	AO3	

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0483	aggregate		11.8	FTIR	AO3	
A0484	aggregate		5.7	FTIR		
A0485	aggregate		5.5	FTIR		
A0486	aggregate		5.6	FTIR		
A0487	aggregate		5.6	FTIR		
A0488	aggregate		5.6	FTIR		
A0489	aggregate		5.4	FTIR		
A0490	aggregate		5.2	FTIR		
A0491	aggregate		4.1	FTIR		
A0492	aggregate		5.7	FTIR		
A0493	aggregate		4.5	FTIR		
A0494	aggregate		5.0	FTIR		
A0495	aggregate		4.4	FTIR		
A0496	aggregate		4.8	FTIR		
A0497	aggregate		4.8	FTIR		
A0498	aggregate		5.5	FTIR		
A0499	aggregate		4.7	FTIR		
A0500	particle	2.25	1.9			
A0501	particle	1.70	0.8			
A0502	particle	1.69	1.0			
A0503	particle	1.45	1.0			
A0504	particle	1.73	0.4			
A0505	particle	2.68	1.2			
A0506	particle	1.76	0.8			
A0507	particle	2.02	1.1			
A0508	particle	1.62	1.3			
A0509	particle	1.72	1.0			
A0510	particle	1.85	1.4			
A0511	particle	1.60	0.8			
A0512	particle	1.22	0.8			
A0513	particle	1.71	1.2			
A0514	particle	1.77	0.5			
A0515	particle	1.81	0.4			
A0516	particle	1.71	0.6			
A0517	particle	1.31	0.8			
A0518	particle	1.60	0.8			
A0519	particle	1.51	1.0			
A0520	particle	1.73	0.9			
A0521	particle	1.55	0.6			
A0522	particle	1.35	0.7			
A0523	particle	1.23	0.8			
A0524	particle	1.45	1.1			
A0525	particle	1.46	0.7			
A0526	particle	1.75	0.9			
A0527	particle	1.89	0.8			
A0528	particle	1.73	0.6			
A0529	particle	1.68	0.4			
A0530	particle	1.47	0.5			
A0531	particle	1.11	0.2			
A0532	particle	1.11	0.7			

Sample name	Sample form	Size	Weight	Initial Description	Distribution	Status
		(mm)	(mg)	I		
A0533	particle	1.65	0.6			
A0534	particle	1.39	0.9			
A0535	particle	1.36	0.9			
A0536	particle	1.61	0.4			
A0537	particle	1.59	0.6			
A0538	particle	1.53	0.6			
A0539	particle	1.08	0.4			
A0540	particle	1.20	0.4			
A0541	particle	1.34	0.4			
A0542	particle	1.63	0.5			
A0543	particle	1.45	0.7			
A0544	particle	1.53	0.3			
A0545	particle	1.08	0.6			
A0546	particle	1.33	0.7			
A0547	particle	1.33	0.5			
A0548	particle	1.80	0.6			
A0549	particle	1.45	0.8			
A0550	particle	1.35	0.9			
A0551	particle	1.40	0.8			
A0552	particle	1.24	0.7			
A0553	particle	1.59	0.8			
A0554	particle	1.43	0.7			
A0555	particle	1.67	0.8			
A0556	particle	1.27	0.6			
A0557	particle	1.44	0.6			
A0558	particle	1.36	0.7			
A0559	particle	1.19	0.4			
A0560	particle	1.77	0.9			
A0561	particle	1.09	0.5			
A0562	particle	1.47	0.6			
A0563	particle	1.13	0.4			
A0564	particle	1.28	0.7			
A0565	particle	1.30	0.8			
A0566	particle	1.36	0.5			
A0567	particle	1.23	0.8			
A0568	particle	1.36	0.5			
A0569	particle	1.31	0.5			
A0570	particle	1.69	0.9			
A0571	particle	1.30	0.6			
A0572	particle	1.21	0.4			
A0573	particle	1.22	0.5			
A0574	particle	1.97	0.4			
A0575	particle	1.17	0.6			
A0576	particle	1.03	0.3			
A0577	particle	1.65	0.4			
A0578	particle	1.68	0.4			
A0579	particle	1.41	1.1			
A0580	particle	2.31	0.8			
A0581	particle	1.64	0.9			
A0582	particle	1.33	0.9			
					1	1

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
A0583	particle	1.59	0.6			
A0584	particle	1.77	0.9			
A0585	particle	1.50	0.7			
A0586	particle	1.23	0.9			
A0587	particle	1.46	1.1			
A9000 (in	· •					
vacuum)	aggregate					
A9001 (A1)	aggregate		24.8	FTIR		
A9002 (A2)	aggregate		20.5	FTIR		CONSUMED
A9003 (A3)	aggregate		428.4	FTIR		
A9004 (>1mm)	aggregate					
A9005 (A1D1)	aggregate		301.8			
A9006 (A1D2)	aggregate		224.5			
A9007 (A2D)	aggregate		82.9			
A9008 (A2D-Tf)	aggregate					
A9009 (A1D-						
Sp1)	aggregate		11.4	FTIR		
A9010 (A1D-			1010			
Sp10)	aggregate		104.8	FTIR		
A9011 (AD)	aggregate					
B9001 (B1)	aggregate		13.0			
B9002	aggregate		14.7	FTIR		
				MicrOmega, FTIR,		
C0001	particle	7.36	100.0	Multiband Image,	NASA	TRANSFER
				Stereo Image		
C0002	particle	8.65	93.5	MicrOmega, FTIR	IA	CONSUMED
C0003	particle	4.89	33.2	FTIR		
				MicrOmega, FTIR,		
C0004	particle	5.75	36.0	Multiband Image,		
				Stereo Image		
C0005	narticle	5 33	20.8	Multiband Image	402	ON-LOAN
00005	purtiere	5.55	20.0	Stereo Image,	1102	OIV LONIV
				MicrOmega, FTIR,		
C0006	particle	4.52	16.3	Multiband Image,	AO3	
				Stereo Image		
				MicrOmega, FTIR,		
C0007	particle	4.17	13.4	Multiband Image,	NASA	TRANSFER
C0008		2 71	10.0	Stereo Image	DI 2 M	
C0008	particle	3.71	10.0	MicrOmega, FTIR	Ph2-Misasa	ON-LUAN
C0009	particle	3.52	11.1	MicrOmega, FTIR	Ph2-Kochi	COSUMED
C0010	particle	3.50	6.3	FIIK		
C0011	narticle	3 54	03	MicrOmega, FTIK, Multiband Image	401	
0011	particle	5.54	7.5	Stereo Image	AOI	
				MicrOmega, FTIR,		
C0012	particle	3.49	13.6	Multiband Image,	AO1	ON-LOAN
				Stereo Image		
				MicrOmega, FTIR,		
C0013	particle	3.20	6.7	Multiband Image,	NASA	TRANSFER
		0		Stereo Image		
C0014	particle	3.53	6.8	MicrOmega, FTIR	Ph2-Kochi	COSUMED

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
C0015	particle	2.19	1.8	MicrOmega, Multiband Image, Stereo Image	AO1	ON-LOAN
C0016	particle	2.20	2.0	MicrOmega, Multiband Image		
C0017	particle	2.75	5.1	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
C0018	particle	3.44	6.3	FTIR		
C0019	particle	2.65	6.8	MicrOmega, FTIR	Ph2-Misasa	ON-LOAN
C0020	particle	2.23	3.1	MicrOmega, Multiband Image, Stereo Image		
C0021	particle	2.80	6.7	FTIR		
C0022	particle	1.69	1.0	MicrOmega, Multiband Image, Stereo Image	AO1	ON-LOAN
C0023	particle	3.00	5.0	MicrOmega, FTIR	IA	CONSUMED
C0024	particle	2.41	2.2	FTIR		
C0025	particle	3.00	5.6	MicrOmega, FTIR	IA	CONSUMED
C0026	particle	2.54	1.4			
C0027	particle	2.22	2.2	MicrOmega	Ph2-Misasa	ON-LOAN
C0028	particle	2.37	1.4			
C0029	particle	2.48	4.0	FTIR		
C0030	particle	1.85	0.7	MicrOmega, Multiband Image, Stereo Image	AO1	
C0031	particle	2.25	1.8	FTIR		
C0032	particle	3.21	3.1	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
C0033	particle	2.74	2.4	MicrOmega, FTIR	IA	CONSUMED
C0034	particle	2.10	2.4	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
C0035	particle	2.74	1.5			
C0036	particle	1.92	1.8			
C0037	particle	2.18	2.3	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
C0038	particle	1.78	0.8	MicrOmega, Multiband Image, Stereo Image	NASA	TRANSFER
C0039	particle	1.78	1.0	MicrOmega	Ph2-Misasa	ON-LOAN
C0040	particle	3.43	4.9	MicrOmega, FTIR	IA	CONSUMED
C0041	particle	2.62	3.3	MicrOmega, FTIR		
C0042	particle	1.65	1.0	MicrOmega, Multiband Image, Stereo Image	NASA	TRANSFER
C0043	particle	2.43	1.7	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN

Miacomaga ETID	
C0044 porticle 3.60 4.7 Multiband Image A.O.2 ON	LOAN
Stereo Image	LUAN
C0045 particle 3.14 3.2 FTIR	
C0046 particle 2.16 2.6 MicrOmega, FTIR IA ON-	LOAN
C0047 particle 1.86 1.3 MicrOmega Ph2-Misasa ON-	LOAN
MicrOmega,	
C0048 particle 1.74 1.7 Multiband Image, NASA TRA	NSFER
C0049 particle 4.00 12.6 FTIR	
MicrOmega, FTIR,	
C0050 particle 2.41 2.2 Multiband Image, AO1 Stereo Image	
C0051 particle 2.46 1.7 FTIR	
MicrOmega, FTIR,	
C0052 particle 1.91 2.1 Multiband Image, AO1	
Stereo Image	
C0053 particle 2.38 3.2 MicrOmega, FTIR Ph2-Misasa ON-	LOAN
C0054 particle 2.88 2.9 MicrOmega, FTIR Outreach	
C0055 particle 2.08 0.8 MicrOmega IA CONS	SUMED
MicrOmega,	
C0056 particle 1.88 1.5 Multiband Image, NASA TRA	NSFER
Stereo Image	
C005/ particle 1.80 0.9 MicrOmega IA CONS	SUMED
C0058 particle 1.66 0.9 Multiband Image AO1	
Stereo Image	
MicrOmega,	
C0059 particle 1.76 0.8 Multiband Image, AO1 ON-	LOAN
Stereo Image	
C0060 particle 1.81 1.6 FTIR	
C0061 particle 1.81 1.3 MicrOmega IA CONS	SUMED
C0062 particle 1.64 1.1	
MicrOmega, FTIR,	
C0063 particle 2.58 3.6 Multiband Image, NASA TRA	NSFER
C0064 particle 1.77 1.2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
C0066 particle 1.92 1.0	
MicrOmega	
C0067 particle 1.28 0.7 Multiband Image. AO1 ON-	LOAN
Stereo Image	
C0068 particle 1.98 1.7 MicrOmega, FTIR Ph2-Kochi COS	UMED
MicrOmega,	
C0069 particle 1.64 0.9 Multiband Image, AO1 ON-	LOAN
Stereo Image	
MicrOmega,	
C0070 particle 1.29 0.7 Multiband Image, AOI	
MicrOmage	
C0071 particle 1.54 1.0 Multiband Image. AO1 ON-	LOAN
Stereo Image	,
C0072 particle 1.70 1.1	
C0073 particle 1.98 0.9	

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
C0074	particle	3.44	6.6	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
C0075	particle	2.74	4.1	FTIR		
C0076	particle	2.73	4.7	MicrOmega, FTIR	IA	CONSUMED
C0077	particle	2.58	3.6	FTIR		
C0078	particle	2.58	3.6	MicrOmega, FTIR, Multiband Image, Stereo Image		
C0079	particle	3.03	2.5	MicrOmega, FTIR	Ph2-Misasa	ON-LOAN
C0080	particle	3.03	3.9	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
C0081	particle	3.24	4.4	MicrOmega, FTIR	Ph2-Misasa	ON-LOAN
C0082	particle	2.75	3.8	MicrOmega, FTIR	Ph2-Misasa	ON-LOAN
C0083	particle	3.32	3.0	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
C0084	particle	2.37	2.5	FTIR		
C0085	particle	1.98	1.2	MicrOmega, Multiband Image, Stereo Image	AO1	ON-LOAN
C0086	particle	2.31	2.6	FTIR		
C0087	particle	2.16	2.0	MicrOmega	Ph2-Kochi	COSUMED
C0089	particle	2.45	2.5	FTIR		
C0090	particle	2.65	2.6	FTIR		
C0091	particle	2.36	3.8	MicrOmega, FTIR, Multiband Image, Stereo Image	AO1	ON-LOAN
C0092	particle	2.37	1.9	FTIR		
C0093	particle	2.63	3.9	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
C0094	particle	2.18	3.1	MicrOmega, FTIR		
C0095	particle	2.40	2.1	FTIR		
C0096	particle	1.86	2.0	MicrOmega, FTIR, Multiband Image, Stereo Image	NASA	TRANSFER
C0097	particle	2.12	2.5	FTIR		
C0098	particle	2.08	0.8	MicrOmega, Multiband Image, Stereo Image	NASA	TRANSFER
C0099	particle	2.73	3.9	FTIR		
C0100	particle	2.44	3.8	FTIR		
C0101	particle	2.10	2.7			
C0102	particle	2.98	2.3	FTIR		
C0103	particle	1.98	1.5	MicrOmega	IA-Stone	CONSUMED
C0104	particle	0.90	0.2	MicrOmega		
C0105 (Ca-MPF)	aggregate		0.4	MicrOmega	IA	CONSUMED
C0106 (Ca- VOL)	aggregate		4.0	FTIR	IA	CONSUMED
C0107 (Ca- MPC)	aggregate		38.8	MicrOmega, FTIR	ΙΑ	CONSUMED

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
C0108 (Ca- Chem)	aggregate		33.0	MicrOmega, FTIR	IA	CONSUMED
C0109 (Ca-IOM)	aggregate		3.7	MicrOmega, FTIR	IA	CONSUMED
C0113	particle	2.34	2.6	FTIR		
C0114	particle	2.48	2.7	FTIR		
C0115	particle	2.60	2.9	FTIR		
C0116	particle	2.50	3.3	FTIR		
C0117	particle	2.77	2.9	FTIR		
C0118	particle	2.48	2.7	FTIR		
C0119	particle	2.72	4.6	MicrOmega, FTIR, Multiband Image	AO1	
C0120	particle	2.19	2.7	MicrOmega, FTIR, Multiband Image	AO1	
C0121	particle	2.60	1.8	FTIR		
C0122	particle	2.11	2.2	FTIR		
C0123	particle	2.16	3.4	FTIR		
C0124	particle	2.09	2.5	FTIR	Outreach	ON-LOAN
C0125	particle	2.00	1.6	MicrOmega, FTIR, Multiband Image		
C0126	particle	2.69	1.8	FTIR		
C0127	particle	1.71	1.2			
C0128	particle	2.24	2.6	MicrOmega, FTIR, Multiband Image		
C0129	particle	2.14	2.8	FTIR		
C0130	particle	2.13	1.3	MicrOmega, Multiband Image	AO1	ON-LOAN
C0131	particle	2.11	2.4	FTIR		
C0132	particle	2.25	1.8			
C0133	particle	2.30	1.8			
C0134	particle	2.08	1.2			
C0135	particle	1.96	1.6			
C0136	particle	1.86	1.4			
C0137	particle	1.96	2.3	MicrOmega, Multiband Image	AO1	ON-LOAN
C0138	particle	1.99	1.5			
C0139	particle	2.33	2.0	MicrOmega, FTIR, Multiband Image		
C0140	particle	2.33	1.9	FTIR		
C0141	particle	2.20	1.1			
C0142	particle	1.73	1.6			
C0143	particle	2.77	1.5			
C0144	particle	2.05	1.4	Multiband Image		
C0145	particle	1.51	0.9			
C0146	particle	2.08	1.4	MicrOmega, Multiband Image		
C0147	particle	1.87	1.6	FTIR		
C0148	particle	1.72	0.8			
C0149	particle	1.98	2.0	FTIR	Outreach	TRANSFER
C0150	particle	2.16	1.0			
C0151	particle	2.08	1.1			
C0152	particle	2.19	1.0			
C0153	particle	1.79	1.4			

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
C0154	particle	2.15	1.1			
C0155	particle	1.84	1.5			
C0156	particle	1.49	1.2			
C0157	particle	1.96	1.6	MicrOmega, FTIR, Multiband Image	AO1	
C0158	particle	1.77	1.8	FTIR		
C0159	particle	2.01	1.5	FTIR		
C0160	particle	1.97	2.1			
C0161	particle	1.83	1.1	MicrOmega, Multiband Image	A01	ON-LOAN
C0162	particle	1.97	1.8	MicrOmega, Multiband Image	AO1	ON-LOAN
C0165	particle	1.91	0.4			
C0166	particle	2.02	0.6			
C0167	particle	1.78	1.4			
C0168	particle	1.89	1.0			
C0169	particle	1.56	0.9			
C0170	particle	2.03	0.9	MicrOmega, Multiband Image		
C0171	particle	1.62	0.7			
C0172	particle	1.61	0.7			
C0173	particle	1.93	0.2			
C0174	particle	2.01	1.1			
C0175	particle	1.58	1.1			
C0176	particle	1.72	1.1			
C0177	particle	1.77	0.9			
C0178	particle	1.94	1.5	MicrOmega, Multiband Image	AO1	
C0179	particle	1.75	1.2	MicrOmega, Multiband Image	AO1	ON-LOAN
C0180	particle	1.47	1.0	Multiband Image		
C0181	particle	1.14	0.5	MicrOmega		
C0182	particle	1.90	1.3	MicrOmega, Multiband Image	AO1	ON-LOAN
C0183	particle	1.70	0.6			
C0184	particle	1.62	1.0			
C0185	particle	1.57	1.4			
C0186	particle	1.61	1.1			
C0187	particle	1.60	1.0			
C0188	particle	1.71	1.0			
C0189	particle	1.70	1.1			
C0190	particle	1.81	1.0			
C0191	particle	1.55	1.3			
C0192	particle	2.08	1.1	MicrOmega, Multiband Image	AO1	ON-LOAN
C0193	particle	1.57	1.5			
C0194	particle	1.59	1.5			
C0195	particle	1.85	0.9	Multiband Image	Ph2-Kochi	COSUMED
C0196	particle	1.22	0.2			
C0197	particle	1.18	0.1			
C0198	particle	1.29	0.7	Multiband Image	Ph2-Kochi	COSUMED
C0199	particle	1.15	0.3			

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
C0200	particle	2.73	5.3	MicrOmega, FTIR, Multiband Image	AO1	ON-LOAN
C0201	particle	1.50	0.3			
C0202	particle	1.75	1.3			
C0203	particle	1.49	0.6			
C0204	particle	1.06	0.1			
C0205	aggregate		77.0	MicrOmega, FTIR	NASA	TRANSFER
C0206	aggregate		26.8	MicrOmega, FTIR	NASA	TRANSFER
C0207	aggregate		2.6	FTIR, Multiband Image	Ph2-Kochi	COSUMED
C0208	aggregate		8.2	FTIR, Multiband Image	Ph2-Kochi	COSUMED
C0209	aggregate		5.3	FTIR, Multiband Image	Ph2-Kochi	COSUMED
C0210	aggregate		10.1	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
C0211	aggregate		13.6	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
C0212	aggregate		11.2	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
C0213	aggregate		12.4	MicrOmega, FTIR, Multiband Image	AO2	ON-LOAN
C0216	particle	1.70	1.3			
C0217	particle	1.75	1.2			
C0218	particle	1.50	0.6	MicrOmega, Multiband Image	AO2	ON-LOAN
C0219	particle	1.91	1.3			
C0220	particle	1.69	0.9			
C0221	particle	1.33	0.8	MicrOmega, Multiband Image	AO2	ON-LOAN
C0222	particle	1.35	0.8			
C0223	particle	2.45	2.0			
C0224	particle	1.94	1.1	MicrOmega, Multiband Image	AO2	ON-LOAN
C0225	particle	1.89	1.1			
C0226	particle	1.59	1.0			
C0227	particle	1.71	1.0	MicrOmega, Multiband Image	AO2	
C0228	particle	1.48	0.5			
C0229	particle	1.99	1.5			
C0230	particle	1.56	0.8	MicrOmega, Multiband Image	AO2	ON-LOAN
C0231	particle	1.57	0.8			
C0232	particle	1.30	0.6			
C0233	particle	1.61	0.9	MicrOmega, Multiband Image	AO2	ON-LOAN
C0234	particle	1.67	0.8			
C0235	particle	1.54	0.7			
C0236	particle	1.92	0.6	MicrOmega, Multiband Image	AO2	ON-LOAN
C0237	particle	1.64	0.9			
C0238	particle	1.57	0.5			

Sample name	Sample form	Size (mm)	Weight (mg)	Initial Description	Distribution	Status
C0239	particle	1.62	0.5	MicrOmega, Multiband Image	AO2	ON-LOAN
C0240	particle	1.67	0.7			
C0241	particle	1.95	0.6			
C0242	particle	1.71	0.7	MicrOmega, Multiband Image	AO2	ON-LOAN
C0243	particle	1.54	0.3			
C0244	particle	1.66	0.5			
C0245	particle	1.98	0.8	MicrOmega, Multiband Image	AO2	
C0246	particle	1.69	0.6			
C0247	particle	1.48	0.6			
C0248	particle	1.36	0.9	MicrOmega, Multiband Image	AO2	ON-LOAN
C0249	particle	1.57	0.6			
C0250	particle	2.02	1.0			
C0251	particle	1.58	0.8	MicrOmega, Multiband Image	AO2	ON-LOAN
C0252	particle	1.53	0.6			
C0253	particle	1.82	0.7			
C0254	particle	1.34	0.8	MicrOmega, Multiband Image	AO2	ON-LOAN
C0255	particle	1.37	0.8			
C0256	particle	1.53	1.0			
C0257	particle	1.63	0.7	MicrOmega, Multiband Image	AO2	
C0258	particle	1.57	0.9			
C0259	particle	1.50	1.0			
C0260	particle	1.54	1.0	MicrOmega, Multiband Image	AO2	ON-LOAN
C0261	particle	1.69	1.0			
C0262	particle	1.44	0.6			
C0263	particle	1.86	0.8	MicrOmega, Multiband Image	AO2	ON-LOAN
C0264	particle	1.91	1.0			
C0265	particle	1.58	0.5			
C0266	particle	1.67	0.5	MicrOmega, Multiband Image	AO2	ON-LOAN
C0267	particle	1.46	0.5			
C0268	particle	1.54	0.6			
C0269	particle	1.90	0.8	MicrOmega, Multiband Image	AO2	
C0270	particle	1.72	0.6			
C0271	particle	1.97	0.5			
C0272	particle	1.57	0.9	MicrOmega, Multiband Image	AO2	ON-LOAN
C0273	particle	1.39	0.6			
C0274	particle	1.66	0.5			
C0275	particle	1.63	0.5	MicrOmega, Multiband Image	AO2	ON-LOAN
C0276	particle	1.69	1.0			
C0277	particle	1.58	1.0			
C0278	particle	1.24	0.4			

Sample name	Sample form	Size	Weight	Initial Description	Distribution	Status
Sample name	Sample form	(mm)	(mg)	linual Description	Distribution	Status
C0279	particle	1.26	0.6			
C0280	particle	1.16	0.3			
C0281	particle	1.51	1.0			
C0282	particle	1.78	0.6		AO3	
C0283	particle	1.28	0.7			
C0284	particle	1.56	0.5			
C0285	particle	1.46	0.8			
C0286	particle	1.44	0.7			
C0287	particle	1.57	0.6			
C0288	particle	1.92	0.4			
C0289	particle	1.29	0.8		AO3	
C0290	particle	1.33	1.0			
C0291	particle	1.57	0.6			
C0292	particle	1.50	0.5			
C0293	particle	1.53	0.5			
C0294	particle	1.66	0.7			
C0295	particle	1.62	0.5			
C0296	particle	1.53	0.7		AO3	
C0297	particle	1.48	0.8			
C0298	particle	1.28	0.6			
C0299	particle	1.44	0.7			
C0300	particle	1.23	0.6			
C0301	particle	1.57	0.7			
C0302	particle	1.36	0.3			
C0303	particle	1.58	0.8		AO3	
C0304	particle	1.80	1.0			
C0305	particle	1.36	0.5			
C0306	particle	1.38	0.2			
C0307	particle	1.40	0.2			
C0308	particle	1.19	0.3			
C0309	particle	0.90	0.1			
C0310	particle	1.21	0.3			
C0311	particle	1.13	0.2			
C0312	particle	1.06	0.3			
C0313	particle	1.22	0.1			
C0314	particle	1.25	0.2			
C0315	particle	1.43	0.2			
C0316	particle	1.53	0.9			
C0317	particle	1.28	0.5			
C0318	particle	1.28	0.8			
C0319	particle	1.40	0.5			
C0320	particle	1.55	0.6			
C0321	particle	1.32	0.8			
C0322	particle	1.53	0.6			
C0323	particle	1.29	0.6			
C0324	particle	1.36	0.5			
C0325	particle	1.52	0.3			
C0326	particle	1.36	0.6			
C0327	particle	1.29	0.4			
C0328	particle	1.29	0.3			

Sample fame         Sample form         (mg)         mode Description         Distribution         Same           C0329         particle         1.03         0.5	Sampla nama	Sample form	Size	Weight	Initial Decomintion	Distribution	Status
C0329         particle         1.30         0.5           C0330         particle         1.08         0.2           C0331         particle         1.43         0.3           C0333         particle         1.73         0.4           C0334         particle         1.73         0.4           C0335         particle         1.75         0.5           C0336         particle         1.27         0.5           C0337         particle         1.23         0.3           C0338         particle         1.21         0.2           C0340         particle         1.06         0.2           C0341         particle         1.06         0.2           C0344         particle         1.28         0.4           C0344         particle         1.23         0.5           C0344         particle         1.23         0.5           C0345         particle         1.23         0.5           C0344         particle         1.48         0.6           C0345         particle         1.48         0.4           C0351         particle         1.58         0.6           C0352         pa	Sample name	Sample form	(mm)	(mg)	Initial Description	Distribution	Status
C0330         particle         1.08         0.2           C0331         particle         1.64         0.6           C0332         particle         1.43         0.3           C0333         particle         1.43         0.4           C0334         particle         1.43         0.4           C0335         particle         1.32         0.3           C0337         particle         1.32         0.3           C0338         particle         1.20         0.4           C0340         particle         1.20         0.4           C0340         particle         1.20         0.4           C0341         particle         1.20         0.4           C0342         particle         1.28         0.4           C0343         particle         1.28         0.4           C0344         particle         1.28         0.4           C0344         particle         1.80         0.3           C0344         particle         1.40         0.6           C0344         particle         1.48         0.4           C0351         particle         1.71         0.6           C0352         pa	C0329	particle	1.30	0.5			
C0331         particle         1.64         0.6           C0332         particle         1.43         0.3           C0333         particle         1.73         0.4           C0334         particle         1.43         0.4           C0335         particle         1.43         0.4           C0336         particle         1.32         0.3           C0337         particle         1.20         0.2           C0338         particle         1.20         0.4           C0340         particle         1.20         0.4           C0341         particle         1.03         0.2           C0342         particle         1.03         0.2           C0343         particle         1.28         0.4           C0344         particle         1.28         0.4           C0345         particle         1.23         0.5           C0347         particle         1.88         0.3           C0348         particle         1.68         0.5           C0351         particle         1.68         0.5           C0352         particle         1.71         0.6           C0353         pa	C0330	particle	1.08	0.2			
C0332         particle         1.43         0.3           C0334         particle         1.73         0.4           C0335         particle         1.43         0.4           C0335         particle         1.57         0.5           C0336         particle         1.32         0.3           C0337         particle         1.21         0.2           C0338         particle         1.20         0.4           C0340         particle         1.20         0.4           C0341         particle         1.06         0.2           C0342         particle         1.03         0.2           C0343         particle         1.28         0.4           C0344         particle         1.28         0.4           C0345         particle         1.58         0.3           C0346         particle         1.58         0.3           C0348         particle         1.58         0.4           C0350         particle         1.58         0.4           C0351         particle         1.58         0.4           C0352         particle         1.58         0.4           C0351         p	C0331	particle	1.64	0.6			
C0333         particle $1.73$ $0.4$ C0334         particle $1.43$ $0.4$	C0332	particle	1.43	0.3			
C0334         particle         1.43         0.4           C0335         particle         1.57         0.5	C0333	particle	1.73	0.4			
C0335         particle $1.57$ $0.5$ C0337         particle $1.32$ $0.3$	C0334	particle	1.43	0.4			
C0336       particle       1.32       0.3         C0337       particle       1.33       0.3         C0338       particle       1.21       0.2         C0339       particle       1.20       0.4         C0340       particle       1.30       0.4         C0341       particle       1.06       0.2         C0342       particle       1.28       0.4         C0343       particle       1.28       0.4         C0344       particle       1.28       0.4         C0344       particle       1.28       0.4         C0344       particle       1.28       0.4         C0345       particle       1.58       0.3         C0346       particle       1.58       0.3         C0347       particle       1.68       0.5         C0350       particle       1.56       0.4         C0351       particle       1.58       0.6         C0353       particle       1.38       0.2         C0354       particle       1.38       0.4         C0355       particle       1.38       0.4         C0356       particle       1.32	C0335	particle	1.57	0.5			
C0337         particle         1.33         0.3	C0336	particle	1.32	0.3			
C0338         particle         1.21         0.2           C0339         particle         1.20         0.4            C0340         particle         1.30         0.4            C0341         particle         1.06         0.2             C0342         particle         1.28         0.4             C0344         particle         1.25         0.2             C0344         particle         1.25         0.2             C0344         particle         1.28         0.3              C0347         particle         1.58         0.3               C0348         particle         1.68         0.5	C0337	particle	1.33	0.3			
C0339       particle       1.20       0.4         C0340       particle       1.06       0.2         C0341       particle       1.03       0.2         C0342       particle       1.28       0.4         C0343       particle       1.28       0.4         C0344       particle       1.28       0.4         C0345       particle       1.28       0.4         C0346       particle       1.23       0.5         C0347       particle       1.40       0.6         C0348       particle       1.68       0.5         C0350       particle       1.68       0.5         C0351       particle       1.56       0.4         C0352       particle       1.58       0.6         C0353       particle       1.40       0.6         C0354       particle       1.43       0.4         C0355       particle       1.43       0.4         C0356       particle       1.38       0.4         C0357       particle       1.38       0.4         C0358       particle       1.32       0.5         C0360       particle       1.57	C0338	particle	1.21	0.2			
CO340         particle         1.30         0.4         Image: constraint of the system of the s	C0339	particle	1.20	0.4			
C0341         particle         1.06         0.2           C0342         particle         1.03         0.2           C0343         particle         1.28         0.4           C0344         particle         1.25         0.2           C0345         particle         1.23         0.5           C0346         particle         1.58         0.3           C0347         particle         1.68         0.5           C0348         particle         1.68         0.5           C0350         particle         1.71         0.6           C0351         particle         1.78         0.6           C0352         particle         1.78         0.6           C0353         particle         1.43         0.4           C0354         particle         1.43         0.4           C0355         particle         1.38         0.4           C0356         particle         1.38         0.4           C0357         particle         1.32         0.5           C0358         particle         1.32         0.5           C0360         particle         1.57         0.7           C0361         p	C0340	particle	1.30	0.4			
C0342       particle       1.03       0.2         C0343       particle       1.28       0.4       Image: Constant of the second secon	C0341	particle	1.06	0.2			
C0343         particle         1.28         0.4           C0344         particle         1.25         0.2	C0342	particle	1.03	0.2			
C0344         particle         1.25         0.2           C0345         particle         1.08         0.3	C0343	particle	1.28	0.4			
C0345         particle $1.08$ $0.3$ C0346         particle $1.23$ $0.5$	C0344	particle	1.25	0.2			
C0346         particle $1.23$ $0.5$ Image: constraint of the system of t	C0345	particle	1.08	0.3			
C0347         particle $1.58$ $0.3$ C0348         particle $1.40$ $0.6$ C0349         particle $1.68$ $0.5$ C0350         particle $1.56$ $0.4$ C0351         particle $1.56$ $0.4$ C0352         particle $1.58$ $0.6$ C0353         particle $1.38$ $0.2$ C0354         particle $1.41$ $0.3$ C0355         particle $1.38$ $0.4$ C0355         particle $1.38$ $0.4$ C0356         particle $1.32$ $0.5$ C0359         particle $1.57$ $0.7$ C0361         particle $1.51$ $0.5$ C0361         particle $1.51$ $0.5$	C0346	particle	1.23	0.5			
C0348         particle         1.40         0.6           C0349         particle         1.68         0.5           C0350         particle         1.56         0.4           C0351         particle         1.71         0.6           C0352         particle         1.78         0.6           C0353         particle         1.38         0.2           C0354         particle         1.41         0.3           C0355         particle         1.43         0.4           C0356         particle         1.38         0.4           C0357         particle         1.38         0.4           C0358         particle         1.33         0.4           C0359         particle         1.32         0.5           C0360         particle         1.28         0.5           C0361         particle         1.28         0.5           C0362         particle         1.51         0.6           C0363         particle         1.51         0.6           C0364         particle         1.51         0.6           C0365         particle         1.51         0.5           C0366         a	C0347	particle	1.58	0.3			
C0349         particle         1.68         0.5           C0350         particle         1.56         0.4	C0348	particle	1.40	0.6			
C0350         particle         1.56         0.4         Image: constraint of the state of	C0349	particle	1.68	0.5			
C0351         particle         1.71         0.6         Image: constraint of the system of the sy	C0350	particle	1.56	0.4			
C0352         particle $1.58$ $0.6$ Image: constraint of the system of t	C0351	particle	1.71	0.6			
C0353         particle $1.38$ $0.2$ Image: constraint of the system of t	C0352	particle	1.58	0.6			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	C0353	particle	1.38	0.2			
C0355         particle         1.43         0.4         Image: constraint of the state of	C0354	particle	1.41	0.3			
C0356         particle         1.38         0.4           C0357         particle         1.38         0.7           C0358         particle         1.33         0.4           C0359         particle         1.57         0.7           C0360         particle         1.32         0.5           C0361         particle         1.28         0.5           C0362         particle         1.84         0.6           C0363         particle         1.51         0.6           C0364         particle         1.51         0.6           C0365         particle         1.15         0.5           C0366         aggregate         5.4         FTIR           C0367         aggregate         5.9         FTIR           C0368         aggregate         5.8         FTIR           C0369         aggregate         5.8         FTIR           C0370         aggregate         5.1         FTIR           C0371         aggregate         5.1         FTIR           C0372         aggregate         6.1         FTIR           C0373         aggregate         5.2         FTIR           C0374	C0355	particle	1.43	0.4			
C0357         particle         1.38         0.7         Image: constraint of the system           C0358         particle         1.33         0.4         Image: constraint of the system         Image: constraint of the system           C0359         particle         1.57         0.7         Image: constraint of the system         Image: constraint of the system           C0360         particle         1.32         0.5         Image: constraint of the system         Image: constraint of the system           C0361         particle         1.28         0.5         Image: constraint of the system         Image: constraint of the system           C0362         particle         1.28         0.5         Image: constraint of the system         Image: constraint of the system         Image: constraint of the system           C0363         particle         1.15         0.6         Image: constraint of the system         Image: constraint of the system           C0364         particle         1.15         0.5         Image: constraint of the system         Image: constraint of the sy	C0356	particle	1.38	0.4			
C0358         particle         1.33         0.4           C0359         particle         1.57         0.7           C0360         particle         1.32         0.5           C0361         particle         1.28         0.5           C0362         particle         1.84         0.6           C0363         particle         2.19         0.5           C0364         particle         1.51         0.6           C0365         particle         1.15         0.5           C0366         aggregate         5.4         FTIR           C0367         aggregate         5.9         FTIR           C0368         aggregate         5.8         FTIR         AO3           C0369         aggregate         5.8         FTIR         AO3           C0370         aggregate         5.1         FTIR         AO3           C0371         aggregate         6.0         FTIR         CO373           C0374         aggregate         5.2         FTIR         CO374           C0375         aggregate         5.8         FTIR         CO375           C0376         aggregate         5.8         FTIR         CO375	C0357	particle	1.38	0.7			
C0359         particle $1.57$ $0.7$ Image: constraint of the system of t	C0358	particle	1.33	0.4			
C0360         particle         1.32         0.5           C0361         particle         1.28         0.5	C0359	particle	1.57	0.7			
C0361         particle         1.28         0.5           C0362         particle         1.84         0.6            C0363         particle         2.19         0.5             C0364         particle         1.51         0.6              C0365         particle         1.15         0.5               C0366         aggregate         5.4         FTIR	C0360	particle	1.32	0.5			
C0362         particle         1.84         0.6            C0363         particle         2.19         0.5             C0364         particle         1.51         0.6              C0365         particle         1.15         0.5               C0366         aggregate         5.4         FTIR	C0361	particle	1.28	0.5			
C0363         particle         2.19         0.5         Image: constraint of the state of	C0362	particle	1.84	0.6			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C0363	particle	2.19	0.5			
C0365         particle         1.15         0.5         Image: constraint of the system           C0366         aggregate         5.4         FTIR         Image: constraint of the system           C0367         aggregate         5.9         FTIR         Image: constraint of the system           C0368         aggregate         4.9         FTIR         AO3           C0369         aggregate         5.8         FTIR         AO3           C0370         aggregate         8.3         FTIR         AO3           C0371         aggregate         5.1         FTIR         AO3           C0372         aggregate         6.0         FTIR         Image: constraint of the system           C0373         aggregate         5.2         FTIR         Image: constraint of the system           C0374         aggregate         5.2         FTIR         Image: constraint of the system           C0375         aggregate         5.8         FTIR         Image: constraint of the system           C0376         aggregate         5.8         FTIR         Image: constraint of the system           C0377         aggregate         5.3         FTIR         Image: constraint of the system           C0378         aggregate	C0364	particle	1.51	0.6			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C0365	particle	1.15	0.5			
C0367aggregate5.9FTIRC0368aggregate4.9FTIRAO3C0369aggregate5.8FTIRAO3C0370aggregate8.3FTIRAO3C0371aggregate5.1FTIRAO3C0372aggregate6.0FTIRC0373aggregate6.1FTIRC0374aggregate5.2FTIRC0375aggregate5.8FTIRC0376aggregate5.8FTIRC0377aggregate5.8FTIRC0378aggregate5.3FTIR	C0366	aggregate		5.4	FTIR		
C0368aggregate4.9FTIRAO3C0369aggregate5.8FTIRAO3C0370aggregate8.3FTIRAO3C0371aggregate5.1FTIRAO3C0372aggregate6.0FTIRImage: Constraint of the second secon	C0367	aggregate		5.9	FTIR		
C0369aggregate5.8FTIRAO3C0370aggregate8.3FTIRAO3C0371aggregate5.1FTIRImage: Constraint of the second	C0368	aggregate		4.9	FTIR	AO3	
C0370aggregate8.3FTIRAO3C0371aggregate5.1FTIRC0372aggregate6.0FTIRC0373aggregate6.1FTIRC0374aggregate5.2FTIRC0375aggregate4.6FTIRC0376aggregate5.8FTIRC0377aggregate5.3FTIR	C0369	aggregate		5.8	FTIR	AO3	
C0371aggregate5.1FTIRC0372aggregate6.0FTIRC0373aggregate6.1FTIRC0374aggregate5.2FTIRC0375aggregate4.6FTIRC0376aggregate5.8FTIRC0377aggregate4.6FTIRC0378aggregate5.3FTIR	C0370	aggregate		8.3	FTIR	AO3	
C0372aggregate6.0FTIRC0373aggregate6.1FTIRC0374aggregate5.2FTIRC0375aggregate4.6FTIRC0376aggregate5.8FTIRC0377aggregate4.6FTIRC0378aggregate5.3FTIR	C0371	aggregate		5.1	FTIR		
C0373aggregate6.1FTIRC0374aggregate5.2FTIRC0375aggregate4.6FTIRC0376aggregate5.8FTIRC0377aggregate4.6FTIRC0378aggregate5.3FTIR	C0372	aggregate		6.0	FTIR		
C0374aggregate5.2FTIRC0375aggregate4.6FTIRC0376aggregate5.8FTIRC0377aggregate4.6FTIRC0378aggregate5.3FTIR	C0373	aggregate		6.1	FTIR		
C0375aggregate4.6FTIRC0376aggregate5.8FTIRC0377aggregate4.6FTIRC0378aggregate5.3FTIR	C0374	aggregate		5.2	FTIR		
C0376aggregate5.8FTIRC0377aggregate4.6FTIRC0378aggregate5.3FTIR	C0375	aggregate		4.6	FTIR		
C0377aggregate4.6FTIRC0378aggregate5.3FTIR	C0376	aggregate		5.8	FTIR		
C0378 aggregate 5.3 FTIR	C0377	aggregate		4.6	FTIR		
	C0378	aggregate		5.3	FTIR		

Sample name	Sample form	Size	Weight (mg)	Initial Description	Distribution	Status
C0379	aggregate	(11111)	6.4	FTIR		
C0380	particle	1.15	0.6			
C0381	particle	1.48	0.6			
C0382	particle	1.74	0.6			
C0383	particle	1.19	0.6			
C0384	particle	1.15	0.4			
C0385	particle	1.45	0.8			
C0386	particle	1.56	0.5			
C0387	particle	2.12	0.8			
C0388	particle	1.33	0.3			
C0389	particle	1.40	0.8			
C0390	particle	1.53	0.6			
C0391	particle	1.96	0.6			
C0392	particle	1.74	0.7			
C0393	particle	1.52	0.5			
C0394	particle	1.55	0.3			
C0395	particle	1.59	0.5			
C0396	particle	1.60	0.6			
C0397	particle	1.22	0.3			
C0398	particle	1.45	0.5			
C0399	particle	1.42	0.6			
C0400	particle	1.39	0.4			
C0401	particle	1.23	0.4			
C0402	particle	1.55	0.6			
C0403	particle	1.66	0.3			
C0404	particle	1.66	0.5			
C0405	particle	1.74	0.3			
C0406	particle	1.76	0.3			
C0407	particle	1.49	0.5			
C0408	particle	1.20	0.6			
C0409	particle	1.64	0.2			
C0410	particle	1.50	0.5			
C0411	particle	1.06	0.4			
C0412	particle	1.36	0.6			
C0413	particle	1.24	0.3			
C0414	particle	1.28	0.5			
C0415	particle	1.38	0.7			
C0416	particle	1.53	0.4			
C0417	particle	1.27	0.4			
C0418	particle	1.40	0.8			
C0419	particle	1.37	0.4			
C0420	particle	1.63	0.4			
C0421	particle	1.49	0.4			
C0422	particle	1.35	0.6			
C0423	particle	1.34	0.2			
C0424	particle	1.50	0.7			
C0425	particle	1.32	0.6			
C0426	particle	1.35	0.6			
C0427	particle	1.27	0.4			
C0428	particle	1.36	0.4			

Samula nama	Same la farma	Size	Weight	Initial Description	Distribution	Status
Sample name	Sample form	(mm)	(mg)	Initial Description	Distribution	Status
C0429	particle	1.30	0.5			
C0430	particle	1.38	0.5			
C0431	particle	1.23	0.5			
C0432	particle	1.42	0.5			
C0433	particle	1.23	0.3			
C0434	particle	1.26	0.5			
C0435	particle	1.43	0.6			
C0436	particle	1.51	0.3			
C0437	particle	1.34	0.2			
C0438	particle	1.28	0.5			
C0439	particle	1.32	0.4			
C0440	particle	0.43	0.0			
C9000 (CXL)	particle	10.35	138.1	FTIR		
C9001 (C1)	aggregate		183.3	FTIR		
C9002 (C2)	aggregate		6.4	FTIR		
C9003 (C3)	aggregate		285.0	FTIR		
C9004 (>1mm)	aggregate					
C9005 (C2D)	aggregate		80.8			
C9006 (CD)	aggregate					

0	0
J	0

	uni 14010 101 10jug	,	umpres):
Sample name	Volume (mL)	Distribution	status
NT1	760		
NT1P1A	45		
NT1P1B	45		
NT1P2E	45	Initial Analysis	CONSUMED
NT1P2F	45	Initial Analysis	CONSUMED
NT1P3A	45	Initial Analysis	CONSUMED
NT1P3B	45	Initial Analysis	CONSUMED
NT1P4C	45	Initial Analysis	CONSUMED
NT1P4Q1	45	Initial Analysis	CONSUMED
NT1P5C	45	Initial Analysis	CONSUMED
NT1P5D	45	Initial Analysis	CONSUMED
NT1P6A	45	AO3	
NT2	760		
NT2P1A	45	AO3	
NT2P1B	45	AO3	
NT2P1C	45	AO3	
NT3	760		
NT4	760		
NT5 (blank gas)	760		
NT5P1C	45		
NT5P1D	45		
NT5P2G	45	Initial Analysis	CONSUMED
NT5P2H	45	Initial Analysis	CONSUMED
NT5P3D	45	Initial Analysis	CONSUMED
NT5P3Q2	45	Initial Analysis	CONSUMED
NT5P4A	45	AO3	
NT6	760		

Appendix Table 1b. Ryugu sample list (gas samples).

Appendix Table 1c Ryugu sample list (others: artificial materials).

Sample name	Size (mm)	Weight (mg)	Description
C0088	0.99	0.1	
C0110	7.58	4.0	
C0111	2.82	9.7	
C0112	1.70	0.3	
C0163	3.53	1.1	
C0164	1.30	0.2	2022-10-01: This is a piece of Kapton tape found in the sample catcher with other Ryugu materials and retrieved to C0065, then moved to C0164.
C0214			
C0215	0.56		

0	Λ
J	4

Appendix Table 1d. Ryugu sample lis	t (previously allocated samples).
-------------------------------------	-----------------------------------

Sample name	Distribution	Description	Status
A0002-00	Ph2-Kochi	Fragments	
A0002-01	Ph2-Kochi	Fragments, CT (XCT, XRD-CT), XRD	
A0002-02	Ph2-Kochi	Fragments, Epoxy mount	
A0002-03 PS	Ph2-Kochi	Polished section, carbon coat, SEM/EDS, EPMA	
	Ph2-Kochi	Fragments, FIB section extracted	
A0002-23 FIB	Ph2-Kochi	FIB section, STXM, nanoSIMS, TEM	
A0002-25 FIB	Ph2-Kochi	FIB section, TEM	-
	IA-Stone,		ON-
A0026-01	AO2	SEM, EPMA	LOAN
	IA-Stone,		ON-
A0026-02	AO2	SEM, EPMA	LOAN
A0026-FIB001	IA-Stone	FIB section.	
A0026-FO001	IA-Stone	XRD	
A0026-FO003	IA-Stone	XRD	
A0026-Part B	IA-Stone	SEM	
A0026-Part BFO001	IA-Stone		
A0026-pFIB01	IA-Stone	pFIB	-
A0026-pFIB02	IA-Stone	pFIB, Raman, FTIR, SEM	-
A0026-pFIB02 TEM001	IA-Stone	pFIB. TEM	-
A0026-pFIB02 TEM002	IA-Stone	pFIB, TEM	
A0026-powder 1	IA-Stone		1
A0029-00	Ph2-Kochi	Fragments	
A0029-01	Ph2-Kochi	Fragments, CT(XCT,XRD-CT), XRD	
A0029-02 PS	Ph2-Kochi	Polished section, carbon coat, SEM/EDS, EPMA	
		Powder, A0029 and A0037 mixed, XRD, kept in	
A0029A0037-03	Ph2-Kochi	terrestrial atmosphere	
		Fragments, A0029 and A0037 mixed, kept in	
A0029A0037-04	Ph2-Kochi	terrestrial atmosphere	
A0037-00	Ph2-Kochi	Fragments	-
A0037-01	Ph2-Kochi	Fragments, CT(XCT, Phase-contrast-CT)	
A0037-02 PS	Ph2-Kochi	Polished section, gold coat, SEM/EDS, EPMA	
A0037-03	Ph2-Kochi	Fragments, kept in terrestrial atmosphere	
A0037-21	Ph2-Kochi	Fragment, FIB section extracted	
A0037-22 FIB	Ph2-Kochi	FIB section, STXM, nanoSIMS, TEM	
A0037-23 FIB	Ph2-Kochi	FIB section, STXM, nanoSIMS, TEM	
A0037-24a FIB	Ph2-Kochi	FIB section, TEM	-
A0037-24b FIB	Ph2-Kochi	FIB section, TEM	
A0040-C1001	IA-Chem	Indium-pressed	
	IA-Chem.		ON-
A0040-C1002	AO2	Indium-pressed	LOAN
	IA-Chem,		ON-
A0040-C2001	AO2	FIB-section	LOAN
A0040-C3000	IA-Chem	Heated to 1000 dgrees C	
A0040-C4000	IA-Chem	residue	
A0040-FC002	IA-Stone		
A0040-	T.4. 2		
FC003_NaMg phosphate	IA-Stone		
A0040-FO001	IA-Stone		
40055-01	IA-Stone,	CEM EDMA CIMC	ON-
A0033-01	AO2	SEWI, EPIVIA, SIIVIS	LOAN

35
----

Sample name	Distribution	Description	Status
A0055-02	IA-Stone, AO2	SEM, EPMA, SIMS	ON- LOAN
A0055-03	IA-Stone, AO2	SEM, EPMA, SIMS	ON- LOAN
A0055-FC001	IA-Stone	XRD	
A0055-FC003	IA-Stone	XRD	
A0058-C1001	IA-Chem, AO2	polished section	ON- LOAN
A0058-C1002	IA-Chem	polished section	
A0058-C2000	IA-Chem	residue (picked up from ethanol)	
A0058-C2001 01	IA-Sand	× * /	
A 0050 C2001 02	IA-Sand,		ON-
A0058-C2001_02	AO2		LOAN
A0058-C2001_03	IA-Sand		
A0058-C2001_04	IA-Sand		
A0058-C2001_05	IA-Sand		
A0058-C2001_07	IA-Sand		
A0058-C2001_08	IA-Sand,		ON-
	AO2		LOAN
A0058-C2001_13	IA-Sand		
A0058-FC003	IA-Stone		
A0058-FC004	IA-Stone		
A0063-01	IA-Stone	SEM, EPMA	
A0063-FC001	IA-Stone	XRD, Mossbaur	
A0063-FC002	IA-Stone	XRD	
A0063-FC003	IA-Stone		
A0063-FC007	IA-Stone	FIB, XCT	
A0063-FC010_FIB001	IA-Stone, AO2	FIB, TEM, CT	ON- LOAN
A0063-FC011_015_TEM001	IA-Stone	TEM(No magnetic)	
A0063-FC011_015_TEM002	IA-Stone	TEM(No magnetic)	
A0063-FC011_015_TEM003	IA-Stone	TEM(No magnetic)	
A0063-FC011_015_TEM004	IA-Stone	TEM(No magnetic)	
A0063-FC011_015_TEM005	IA-Stone	TEM(No magnetic)	
A0063-FC016	IA-Stone		
A0063-FC017	IA-Stone		
A0063-FC018	IA-Stone	XRD	
A0063-FC019	IA-Stone	XRD	
A0063-FO001	IA-Stone	XRD	
A0064-00	IA-Stone		
A0064-01	IA-Stone	Polished section,SEM, EPMA	
A0064-02	IA-Stone,	Polished section, SEM, EPMA, FTIR	ON-
	AO2		LOAN
A0064-CT001	IA-Stone	particle Al-needle, FIB, XCT, IR-CT	
A0064 EC001 ED001	IA-Stone	FID section	
A0064 EC001 ED002	IA-Stone	FID section.	
A0064 EC001_FIB003	IA-Stone	FID section.	
A0004-FC001_FIB004	IA-Stone	FID section	
A0064 EC001 ED006	IA-Stone	FID section	
A0064 EC001 ED007	IA-Stone	FID section	
A0004-FC001_FIB00/	IA-Stone	FID Section.	

Sample name	Distribution	Description	Status
A0064-FC002	IA-Stone	XRD	
A0064-FC003	IA-Sand	Grain with an original surface, Loaned from Stone team.	
A0064-FC0031	IA-Sand	FIB section.	
A0064-FC0032	IA-Sand	FIB section.	
A0064-FC0033	IA-Sand	FIB section.	
A0064-FC004	IA-Stone		
		Thin-section on FIB grid, A0064-black ball, FIB,	
A0064-FIB001	IA-Stone	TEM, STXM	
A0064-FO005	IA-Stone	Indium-pressed,SEM-EDS(No magnetic), FIB(No magnetic)	
A0064-FO006	IA-Stone	Indium-pressed,SEM-EDS(No magnetic)	
A0064-FO007	IA-Stone	Indium-press, No magnetic field SEM-EDS, No magnetic field FIB	
A0064-FO007_FIB02	IA-Stone	Thin-section on FIB grid, TEM-EDS, EELS	
A0064-FO007_FIB03	IA-Stone	Thin-section on FIB grid, TEM-EDS	
A0064-FO007_FIB04	IA-Stone	Thin-section on FIB grid, TEM-EDS, EELS	
A0064-FO007_FIB05	IA-Stone	Thin-section on FIB grid, TEM-EDS	
A0064-FO007_FIB06	IA-Stone	Thin-section on FIB grid, TEM-EDS, EELS	
A0064-FO007_FIB07	IA-Stone	Thin-section on FIB grid, TEM-EDS, EELS	
A0064-FO008	IA-Stone	Indium-pressed, No magnetic field SEM-EDS	
A0064-FO012	IA-Stone	Indium-pressed, Raman	
A0064-FO013	IA-Stone	Polished section, SEM, Resin	
A0064-FO013_17_02	IA-Stone	Polished section, SEM, Resin	
A0064-FO014	IA-Stone	Polished section, SEM	
A0064-FO015	IA-Stone	Polished section, SEM	
A0064-FO016	IA-Stone	Polished section, SEM	
A0064-FO017	IA-Stone	Polished section, SEM	
A0064-FO018	IA-Stone	SiO2 powder pressed, heated to 600 dgrees C	
A0064-FO019_FIB001	IA-Stone	Au-pressed,FIB	
A0064-FO019_FIB002	IA-Stone	FIB	
A0064-FO020	IA-Stone	Polished section	
A0064-FO023	IA-Stone	particle Al-needle,FIB, XCT, IR-CT	
A0064-FO024	IA-Stone	particle Al-needle,FIB, XCT, IR-CT	
A0064-FO025	IA-Stone	Glass fiber-embedding	
A0064-FO026	IA-Stone		
A0064-FO027	IA-Stone		
A0064-FO028	IA-Stone	particles in a slide glass, not analyzed	
A0064-FO029	IA-Stone	particles in a slide glass, not analyzed	
A0064-powder01	IA-Stone	Particle, AFM	
A0064-powder02	IA-Stone		
A0067-00	IA-Stone		
A0067-01	IA-Stone, AO2	Polished section, SEM, EPMA	ON- LOAN
A0067-02	IA-Stone	Polished section, SEM, EPMA	
A0067-CT001	IA-Stone	Thick-section on FIB grid, FIB, CT	
A0067-CT002	IA-Stone	Particle Ti-needle,FIB, CT	
A0067-CT003	IA-Stone	Particle Ti-needle,FIB, CT	
A0067-FC001	IA-Stone	Particle carbon fiber, XRD	
A0067-FC002	IA-Stone	Particle carbon fiber, XRD, FIB	
A0067-FC004	IA-Stone	Particle carbon fiber, XRD, XCT	

Sample name	Distribution	Description	Status
A0067-FC005	IA-Stone	Particle carbon fiber, XRD, XCT	
A0067-FC006	IA-Stone	Particle carbon fiber, XRD	
A0067-FC007	IA-Stone	Particle carbon fiber, XRD, XCT	
A0067-FC008	IA-Stone	Indium, SEM, XRD	
A0067-FC010	IA-Stone		
A0067-FIB001	IA-Stone	Thin-section on FIB grid, FIB, TEM	
A0067-FIB002	IA-Stone	Thin-section on FIB grid, FIB, TEM	
A0067-FIB003	IA-Stone	Thin-section on FIB grid, FIB, TEM	
A0067-FIB004	IA-Stone	Thin-section on FIB grid, FIB, TEM	
A0067-FIB005	IA-Stone	Thin-section on FIB grid, FIB, TEM, XCT	
A0067-FIB006	IA-Stone	Thin-section on FIB grid, FIB, TEM, XCT	
A0067-FIB007	IA-Stone, AO2	Thin-section on FIB grid, FIB, TEM, XCT	ON- LOAN
A0067-FIB008	IA-Stone	Thin-section on FIB grid, FIB, TEM	
A0067-FIB009	IA-Stone	Thin-section on FIB grid, FIB, TEM	
A0067-FIB010	IA-Stone	Thin-section on FIB grid, FIB, TEM, STXM	
A0067-FIB011	IA-Stone	Thin-section on FIB grid, FIB, TEM, STXM	
A0067-FO002_FIB001	IA-Stone	Thin-section on FIB grid,FIB	
A0067-SW_FIB001	IA-Stone	Thin-section on FIB grid, FIB, TEM-EDS, EELS	
A0067-pyrrhotite	IA-Sand		
A0080-S001	IA-SOM	Particles remaining on a sample dish, stored in a glass vial	
A0094-01	IA-Stone, AO3	Polished section	
A0094-02	IA-Stone, AO2	Polished section	ON- LOAN
A0094-C1001	IA-Chem	Indium-pressed	
A0094-FC001	IA-Stone	Mossbauer	
A0094-FC003	IA-Stone		
A0094-FC004	IA-Stone		
4 000 4 FID001	IA-Stone,		ON-
A0094-F1B001	AO2	I nin-section on FIB grid, FIB, TEM, CI	LOAN
A0094-FIB002	IA-Stone	Thin-section on FIB grid, FIB, TEM, CT	
A0094-FIB003	IA-Stone	Thin-section on FIB grid, FIB, TEM	
A0094-FIB004	IA-Stone	Thin-section on FIB grid, FIB, TEM	
A0104-00	IA-Sand, AO2	Container and the remaining grains	ON- LOAN
A0104-000_001_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000_002_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000_003_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000_004_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000 005 01	IA-Sand	FIB section, TEM	
A0104-000_006_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000 007 01	IA-Sand	FIB section, TEM	
A0104-000_008_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	

Sample name	Distribution	Description	Status
A0104-000_009_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000_010_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000_011_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000_012_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000_013_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000_014_00	IA-Sand	FIB section, TEM	
A0104-000_014_01	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
A0104-000_015_00	IA-Sand	Particle attached to Ti needle, XCT.	
A0104-000_015_01	IA-Sand	FIB section, TEM.	
A0104-000_016_00	IA-Sand	Particle attached to Ti needle, XCT.	
A0104-000 017 00	IA-Sand	Particle attached to Ti needle, XCT.	
A0104-000 018 00	IA-Sand	Particle attached to Ti needle, XCT.	
A0104-000_019_00	IA-Sand	Particle attached to Ti needle, XCT.	
A0104-000_020_00	IA-Sand	Particle attached to Ti needle, XCT.	
A0104-000 021 00	IA-Sand	Particle attached to Ti needle, XCT.	
A0104-001_000_00	IA-Sand	Sample stub. FIB-SEM.	
A0104-001_003_01	IA-Sand	FIB section TEM	
	in i Sund	FIB section TFM Magnetite shows superstructure	
A0104-001_004_01	IA-Sand	reflections.	
A0104-001_004_02	IA-Sand	FIB section, TEM. Composed mainly of phyllosilicates.	
A0104-001 005 01	IA-Sand	FIB section, TEM.	
A0104-001_005_02	IA-Sand	FIB section, TEM. Unique polycrystalline magnetite.	
A0104-002 000 00	IA-Sand	Sample stub, FIB-SEM.	
A0104-002 001 02	IA-Sand	FIB section, TEM.	
A0104-002 001 03	IA-Sand	FIB section, TEM.	
A0104-002 001 04	IA-Sand	FIB section, TEM.	
A0104-002_001_05	IA-Sand	FIB section TEM	
A0104-002_001_06	IA-Sand	FIB section TEM	
A0104-002_001_07	IA-Sand	FIB section, TEM. Magnetite shows superlattice	
A0104-002 002 01	IA-Sand	FIB section Allocated to U lena TFM	
A0104-002_002_02	IA-Sand	FIB section, TEM. Magnetite show superlattice reflections.	
A0104-002 003 01	IA-Sand	FIB section TEM	
A0104-002_004_01	IA-Sand	FIB section	
A0104-002_005_01	IA-Sand	FIB section. TEM.	
	IA-Sand		ON-
A0104-002_005_02	AO2	FIB section, TEM.	LOAN
A0104-002_006_01	IA-Sand, AO2	FIB section, TEM	ON- LOAN
A0104-002 006 02	IA-Sand	FIB section, TEM	20111
A0104-002_000_02	IA-Sand	FIB section TFM	
A0104-002_007_01	IA-Sand	FIB section TFM	
	IA Sond	FIR section TEM	
A0104-002_000_01	IA-Sallu		

Sample name	Distribution	Description	Status
A0104-003_000_00	IA-Sand	Sample stub	
A0104-004_000_00	IA-Sand	Sample stub, Contaminations unknown origins (mix and barite by SEM observation)	ture of opx
A0104-005 000 00	IA-Sand	Sample stub, SEM-EDS	
A0104-005 009 01	IA-Sand	FIB section, TEM	
A0104-005 009 02	IA-Sand	FIB section, TEM. Na-Mg-P-O-bearing phase.	
A0104-006_000_00	IA-Sand	Sample stub. FE-SEM	
		TEM observation without exposure to the atmosphere	re. Space
A0104-006_001_01	IA-Sand	weathered.	1
A0104-006_002_01	IA-Sand	FIB section, TEM.	
A0104-006_003_01	IA-Sand	FIB section, TEM.	
A0104-006_003_02	IA-Sand	FIB section, TEM.	
A0104-006_003_03	IA-Sand	FIB section, TEM.	
A0104-007_000_00	IA-Sand	Sample stub, FE-SEM	
A0104-007_005_01	IA-Sand	FIB section, TEM. Fe-Cr-S-bearing phase.	
A0104-007_006_01	IA-Sand	FIB section, TEM. FeS	
A0104-007_006_02	IA-Sand	FIB section, TEM. FeS	
A0104-007_008_01	IA-Sand	FIB section, TEM. Fe-Ni-P-bearing phase.	
A0104-008_000_00	IA-Sand	FIB section, Sp-bearing. TEM.	
A0104-008_012_01	IA-Sand	FIB section, TEM. Sp-bearing.	
A0104-008_012_02	IA-Sand	FIB section, TEM. Sp-bearing.	
A0104-008 012 03	IA-Sand		
A0104-008_012_04	IA-Sand	FIB section, TEM. Ol-bearing.	
A0104-008_012_05	IA-Sand	FIB section, TEM. Ol-bearing.	
A0104-008 012 06	IA-Sand	FIB section, TEM. Sp-bearing.	
A0104-008 014 01	IA-Sand	FIB section, TEM	
A0104-009_000_00	IA-Sand	Sample stub,	
A0104-009 005 01	IA-Sand	FIB section, TEM.	
A0104-009_008_01	IA-Sand	FIB section, TEM. Ol-bearing.	
A0104-009 008 02	IA-Sand	FIB section, TEM. Ol-bearing.	
A0104-010 000 00	IA-Sand	Sample stub, FIB-SEM, FE-SEM.	
A0104-010_009_01	IA-Sand	FIB section, TEM. Not exposed to atmosphere	
A0104-011_000_00	IA-Sand	Sample stub, FIB-SEM, FE-SEM.	
A0104-011 002 01	IA-Sand	FIB section, TEM	
A0104-012 000 00	IA-Sand	Sample stub, TEM.	
A0104-013 001 01	IA-Sand	FIB section, TEM	
		FIB section, TEM, STXM-XANES. Carbon contami	inated in
A0104-013_001_02	IA-Sand	spite of preparation without using epoxy.	
A0104-013 001 03	IA-Sand	FIB section, TEM, STXM-XANES. Carbon contamination	inated in
	int Sund	spite of preparation without using epoxy.	1
A0104-013_002_01	IA-Sand	FIB section, TEM	
A0104-013_002_02	IA-Sand	FIB section, STXM	
A0104-013_002_03	IA-Sand	FIB section, TEM. FeS.	
A0104-015_000_00	IA-Sand	Sample stub, Indium pressed, FIB-SEM.	
A0104-015_004_01	IA-Sand	FIB section, TEM. Not exposed to atmosphere.	
A0104-017_001_01	IA-Sand	FIB section, TEM.	
A0104-017_002_01	IA-Sand	FIB section, TEM.	
A0104-017_004_01	IA-Sand	FIB section, TEM.	
A0104-017_005_01	IA-Sand	FIB section, TEM.	
A0104-017_006_01	IA-Sand	FIB section, TEM.	

Sample name	Distribution	Description	Status
A0104-017_006_02	IA-Sand, AO2	FIB section, TEM, XANES.	ON- LOAN
A0104-017_006_03	IA-Sand	FIB section, TEM.	
A0104-017_006_04	IA-Sand	FIB section, TEM, STXM-XANES. Carbon contami spite of preparation without using epoxy.	inated in
A0104-017 006 05	IA-Sand	FIB section, TEM.	
A0104-017 006 06	IA-Sand	FIB section, TEM.	
A0104-018 000 00	IA-Sand	Sample stub, Indium pressed	
A0104-019 000 00	IA-Sand	Sample stub, Indium pressed	
A0104-020 000 00	IA-Sand	Sample stub, Indium pressed	
A0104-021 000 00	IA-Sand	Sample stub, SEM	
A0104-021 002 01	IA-Sand	FIB section, TEM	
A0104-021 002 02	IA-Sand	FIB section, TEM	
A0104-021 002 03	IA-Sand	FIB section, TEM	
A0104-021 002 04	IA-Sand	FIB section, TEM	
A0104-021 002 05	IA-Sand	FIB section, TEM	
A0104-021 002 06	IA-Sand	FIB section, TEM	
A0104-021 002 07	IA-Sand	FIB section, TEM. Spae weathered FeS+whisker	
A0104-021 004 01	IA-Sand	FIB section, TEM	
A0104-021 004 02	IA-Sand	FIB section, TEM	
A0104-021 005 01	IA-Sand	FIB section, TEM	
A0104-021 005 02	IA-Sand	FIB section, TEM	
A0104-021 012 01	IA-Sand	FIB section, TEM	
A0104-022 000 00	IA-Sand	Sample stub, FIB-SEM, FE-SEM.	
	IA-Sand,	FIB section, TEM. Not exposed to atmosphere.	ON-
A0104-022_037_01	AO2	Space weathered.	LOAN
A0104-022 037 02	IA-Sand	FIB section, TEM. Not exposed to atmosphere.	
	IA-Sand,	FIB section, TEM. Not exposed to atmosphere.	ON-
A0104-022_037_03	AO2	Space weathered.	LOAN
A0104-023_000_00	IA-Sand	Sample stub, FIB-SEM, FE-SEM.	
A 0104 023 069 01	IA-Sand,	FIB section, TEM. Not exposed to atmosphere.	ON-
A0104-025_009_01	AO2	Space weathered.	LOAN
A0104-024_000_00	IA-Sand, AO3	Sample stub, SEM	
A0104-024_027_01	IA-Sand	FIB section, TEM	
A0104-024_031_01	IA-Sand	FIB section, TEM	
A0104-024_031_02	IA-Sand	FIB section, TEM	
A0104-024_031_03	IA-Sand	FIB section, TEM	
A0104-024_031_04	IA-Sand	FIB section, TEM	
A0104-024_031_05	IA-Sand	FIB section, TEM	
A0104-024_031_06	IA-Sand	FIB section, TEM	
A0104-025_000_00	IA-Sand	Sample stub, SEM	
A0104-026_000_00	IA-Sand	Sample stub, FIB-SEM.	
A0104-026_006_01	IA-Sand	Space weathering, spherulitic magnetite	
A0104-026_087_03	IA-Sand	FIB section, FIB-SEM at U Hawaii. Carbonate. TEM	
A0104-027 000 00	IA-Sand	Sample stub, FE-SEM	
A0104-027_006_01	IA-Sand	FIB section, Space weathering, FeS	
A0104-027_006_02	IA-Sand	FIB section, Space weathering, FeS	
A0104-027_006_03	IA-Sand	FIB section, Space weathering, Carbonate	
A0104-027_006_04	IA-Sand	FIB section, Space weathering, Carbonate	

Sample name	Distribution	Description	Status
A0104-028_000_00	IA-Sand	Sample stub, FE-SEM	
A0104-028_021_01	IA-Sand	FIB section,	
A0104-028 022 01	IA-Sand,	FIB section, Silicate melt +laered internal	ON-
A0104-028_022_01	AO2	structure.	LOAN
A0104-028_022_02	IA-Sand, AO2	FIB section, Silicate melt +laered internal structure	ON- LOAN
A0104-028 078 01	IA-Sand	FIB section, Silicate melt	
A0104-028 078 02	IA-Sand	FIB section, Silicate melt	
A0104-028 098 01	IA-Sand	FIB section, Space weathered silicate+magnetite	
A0104-028 098 02	IA-Sand	FIB section, Space weathered silicate+magnetite	
A0104-029_000_00	IA-Sand, AO2	Sample stub, FIB-SEM. TEM.	ON- LOAN
A0104-029 025 00	IA-Sand	Ultramicrotomed potted butt	
A0104-029_025_01	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_02	IA-Sand,	Ultra-thin sections by ultramicrotome, TEM	ON-
	AO2		LUAN
A0104-029_025_03	AO2	Ultra-thin sections by ultramicrotome, TEM	LOAN
A0104-029_025_04	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_05	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_06	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_07	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_08	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_09	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_10	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_11	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_12	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_13	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-029_025_14	IA-Sand, AO2	Ultra-thin sections by ultramicrotome, TEM	ON- LOAN
A0104-GL01_000_00	IA-Sand	Sample stub, FIB-SEM.	
A0104-GL02_000_00	IA-Sand	Sample stub, FIB-SEM.	
A0104-GLA_000_01	IA-Sand		
A0104-GLA_000_02	IA-Sand		
A0104-GLA_000_03	IA-Sand		
A0104-GLA_000_04	IA-Sand		
A0105-03_Pellet3	IA-VOL		
A0105-09	IA-VOL	Pellet on Cu disk, heated up to 70 degC under vacuum	
A0105-12_Pellet12	IA-VOL, AO2	We broke the capillary (pellet 12) and measured the gas before the end of the allowed analysis	ON- LOAN

Sample name	Distribution	Description	Status
		period. We then loaded the sample into our laser	
		port for step heating analysis.	
		It is stored in an evacuated laser port in a N2	
		filled cabinet.	
		The other remains sealed inside the capillary tube	
		in which it was irradiated. It is stored in our	
	IA-VOI	radiation cupboard and so we are not able to	ON-
A0105-13_Pellet13	AO2	provide an image easily (we have to restrict the	LOAN
	1102	exposure of workers to that environment). The box	Lonny
		filled with N2 containing the first three samples	
		listed above is in a secure area	
A0105-16	IA-VOL	Pellet on Cu disk, heated up to 70 degC under	
		vacuum	
A0105-17	IA-VOL,	Particle (0.067mg), heated up to 70 degC under	ON-
	AO2	vacuum	LOAN
A0105-18	IA-VOL,	Particle (0.067mg), heated up to 70 degC under	ON-
	AO2	vacuum	LOAN
A0105-19 LET713 A	IA-VOL,	Solution between Be and Al fraction from cation	
	AO3	chromatograph	
A0105-19 LET713 B	IA-VOL	Solution before Be fraction from cation	
		chromatograph	
A0105-19 LET713 C	IA-VOL,	Mn fraction from anion chromatograph	
	AO3		
A0105-19 LET713 D	IA-VOL,	Remaining solution after separation of A, B, and C	
	AO3	solutions	
A0105-20 LET714 A	IA-VOL,	Solution between Be and Al fraction from cation	
	A03	chromatograph	
A0105-20 LET714 B	IA-VOL	Solution before Be fraction from cation	
		chromatograph	
A0105-20_LET714_C	IA-VOL,	Mn fraction from anion chromatograph	
	A03		
A0105-20_LET714_D	IA-VOL,	Remaining solution after separation of A, B, and C	
	AU3		ON
A0105-21	IA-VOL,	Particle (0.098mg), heated up to 250 degC under	UN-
	A02	vacuum $P_{1}(1, 0, 0, 0, 2, \dots)$ $1 \rightarrow 1 \rightarrow 250$ $1 \rightarrow 0$	LUAN
A0105-22	IA-VOL,	Particle (0.063mg), nealed up to 250 degC under	UN-
A 0105-22	AU2		LUAN
A0105-25	IA-VOL	Polished section SEM EDMA	
A0106-001a	IA-Stone	Polished section, SEM, EPMA	
A0100-001b	IA-Stone	Polished section, SEM, EPMA	
A0106-001c	IA-Stone,	Polished section, SEM, EPMA	
	AO2		
A0106-001c_FIB1	IA-Stone,	FIB,TEM	
A0106 001 a EID2	AUZ		
A0106-001c_FID2	IA-Stone		
	IA-Stone		
A0106-001c_FID4	IA-Stone		
A0106-0014	IA-Stone	Dolished section SEM EDCD EDMA	
A0106-001a	IA-Stone	This section on metal plata SEM EDMA	
	IA-SIONE	Thin section on metal plate, SEW, EPWA	
A0106-10_IOM_residue	IA-IOM		

Sample name	Distribution	Description	Status
A0106-10_intact	IA-IOM, AO2	UM or FIB	
A0106-11_intact	IA-IOM, AO2	FTIR, Raman	
A0106-12_intact	IA-IOM	Visible	
A0106-14_IOM_residue	IA-IOM	Epoxy stub	
A0106-14_intact	IA-IOM	13 and 14 in the same glass, AFMIR	
A0106-15_IOM_residue	IA-IOM	TEM grid; box IOM slot A1	
A0106-16_IOM_residue	IA-IOM	TEM grid; box IOM slot A2	
A0106-16_intact	IA-IOM	FTIR, Raman	
A0106-17_IOM_residue	IA-IOM	TEM grid; box IOM slot A3	
A0106-19_IOM_residue	IA-IOM	TEM grid; box IOM slot A5	
A0106-20_IOM_residue	IA-IOM	FTIR	
A0106-21_intact	IA-IOM	Intact particles	
A0106-22_IOM_residue	IA-IOM	FTIR	
A0106-23_intact	IA-IOM	23, 24, and 25 in the same slide glass, FTIR, Raman	
A0106-24_intact	IA-IOM	23, 24, and 25 in the same slide glass, FTIR, Raman, nanoSIMS	
A0106-25_IOM_residue	IA-IOM, AO2	Powder on Si wafer, CO-AFM	ON- LOAN
A0106-25_intact	IA-IOM	23, 24, and 25 in the same slide glass, FTIR, Raman	
A0106-26_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), FTIR	
A0106-27_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), on diamond, FTIR	
A0106-27_intact	IA-IOM	Intact particles, Cu disk	
A0106-28_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), on diamond, FTIR	
A0106-28_intact	IA-IOM	FTIR	
A0106-29_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), on diamond, FTIR	
A0106-29_intact	IA-IOM	FTIR	
A0106-2_IOM_residue	IA-IOM		
A0106-30_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), on diamond, FTIR	
A0106-30_intact	IA-IOM	FTIR	
A0106-31_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), on diamond, FTIR	
A0106-31 intact	IA-IOM	FTIR	
A0106-32_IOM_residue	IA-IOM	pressed on to Cu, TOFSIMS	1
A0106-32_intact	IA-IOM	FTIR	
A0106-33_IOM_residue	IA-IOM	FTIR, Raman	
A0106-33_intact	IA-IOM	FTIR	
A0106-34_IOM_residue	IA-IOM	On nanoSIMS base, NanoSIMS	
A0106-34_intact	IA-IOM	Intact particles, Cu disk	
A0106-35_IOM_residue	IA-IOM	FIB on STXM holder7 (Pos#2)	
A0106-35_intact	IA-IOM	on slide glass, HF/HCl	
A0106-36_IOM_residue	IA-IOM	FIB on STXM holder7 (Pos#3)	
A0106-36_intact	IA-IOM	on slide glass, HF/HCl	
A0106-37 intact	IA-IOM	on slide glass	

A0106-38_intactIA-IOMon slide glassA0106-39_intactIA-IOMon slide glassA0106-3_IOM_residueIA-IOMA0106-3_intactIA-IOMA0106-40_intactIA-IOMA0106-41_intactIA-IOMA0106-42_intactIA-IOMA0106-4_intactIA-IOMA0106-4_intactIA-IOMA0106-4_intactIA-IOMA0106-4_intactIA-IOMA0106-4_intactIA-IOMA0106-4_intactIA-IOMA0106-4_intactIA-IOMA0106-5_intactIA-IOMA0106-5_intactIA-IOMA0106-5_intactIA-IOMA0106-5_intactIA-IOM
A0106-39_intact       IA-IOM       on slide glass         A0106-3_IOM_residue       IA-IOM
A0106-3_IOM_residue       IA-IOM         A0106-3_intact       IA-IOM         Visible       IA-IOM         A0106-40_intact       IA-IOM         A0106-41_intact       IA-IOM         A0106-42_intact       IA-IOM         A0106-42_intact       IA-IOM         A0106-4_intact       IA-IOM         A0106-4_intact       IA-IOM         A0106-4_intact       IA-IOM         A0106-4_intact       IA-IOM         A0106-5_intact       IA-IOM
A0106-3_intact       IA-IOM       Visible         A0106-40_intact       IA-IOM       on slide glass         A0106-41_intact       IA-IOM       on slide glass         A0106-42_intact       IA-IOM       on slide glass         A0106-4_intact       IA-IOM       on slide glass         A0106-4_intact       IA-IOM       on slide glass         A0106-4_intact       IA-IOM       FTIR, Raman, nanoSIMS         A0106-5_IOM_residue       IA-IOM       FUIR, Raman, nanoSIMS
A0106-40_intact     IA-IOM     on slide glass       A0106-41_intact     IA-IOM     on slide glass       A0106-42_intact     IA-IOM     on slide glass       A0106-4_IOM_residue     IA-IOM       A0106-4_intact     IA-IOM       A0106-5_IOM_residue     IA-IOM
A0106-41_intact     IA-IOM     on slide glass       A0106-42_intact     IA-IOM     on slide glass       A0106-4_IOM_residue     IA-IOM       A0106-4_intact     IA-IOM       A0106-5_IOM_residue     IA-IOM
A0106-42_intact     IA-IOM     on slide glass       A0106-4_IOM_residue     IA-IOM       A0106-4_intact     IA-IOM       FTIR, Raman, nanoSIMS
A0106-4_IOM_residue     IA-IOM       A0106-4_intact     IA-IOM       FTIR, Raman, nanoSIMS
A0106-4_intact IA-IOM FTIR, Raman, nanoSIMS
A0106 5 IOM regidue IA IOM IOM regidue instant to UE/UCI transferrent
AU100-3_10W1_residue IA-10W1_10W1 residue, isolated by HF/HCl treatment
A0106-5_intact IA-IOM
A0106-6_IOM_residue IA-IOM
A0106-6_intact IA-IOM FTIR, Raman, nanoSIMS
A0106-7_IOM_residue IA-IOM
A0106-7_intact IA-IOM Visible
A0106-8_IOM_residue IA-IOM
A0106-8_intact IA-IOM UM or FIB
A0106-9_IOM_residue IA-IOM IOM risidue on glass slide,
A0106-9_intact IA-IOM FTIR, Raman
A0106-C1001 IA-Chem Fraction Pb, Solvent H2O
A0106-C1002 IA-Chem Fraction Ti, Solvent 9M HCl-0.05M HF
A0106-C1003 IA-Chem Fraction Fe, Solvent 4M HNO3
A0106-C1004 IA-Chem Fraction Ca, Solvent 10M HNO3
A0106-C1005 IA-Chem Fraction Cr, Solvent 5M HCl
A0106-C1006 IA-Chem Fraction K-Mg-Ni, Solvent 1M HNO3
A0106-S001 IA-SOM COSUME
A0106-S002 IA-SOM Particles remaining in a glass vial
IA-SOM I atteres remaining in a grass viai
A0106-S003 Dried on silicon plate after extraction by hexane
IA-SOM. ON-
A0106-S004 Dried on silicon plate after extraction by DCM LOAN
IA-SOM, ON-
A0106-S005 Dried on silicon plate after extraction by MeOH LOAN
A0106-S006 IA-SOM, AO2 Dried on silicon plate after extraction by water I OAN
A0107-C1001 IA-Chem Fraction Pb Solvent H2O
A0107-C1002 IA-Chem Fraction Ti, Solvent 9M HCI-0.05M HF
A0107-C1003 IA-Chem Fraction Fe. Solvent 4M HNO3
A0107-C1004 IA-Chem Fraction Ca. Solvent 10M HNO3
A0107-C1005 IA-Chem Fraction Cr. Solvent 5M HCl
A0107-C1006 IA-Chem Fraction K-Mg-Ni, Solvent 1M HNO3
A0108-10 intact IA-IOM FTIR. Rama, nanoSIMS
IA-IOM, ON-
A0108-11 AO2 Fragment on SEM stub, LOAN
A0108-13 intact IA-IOM, NanoSIMS ON-
AO2 LOAN
A0108-14 IA-IOM Fragments of original A0108-14 grain on glass slide,
A0108-15_intact IA-IOM crushed, AFM-IR

Λ	Б
4	U.

Sample name	Distribution	Description	Status
A0108-17_intact	IA-IOM	FTIR, Raman	
A0108-18_intact	IA-IOM	FTIR, Rama, nanoSIMS	
A0108-19_intact	IA-IOM	crushed, AFM-IR	
A0108-23	IA-IOM	Epoxy stub	
A0108-24	IA-IOM	Epoxy stub	
A0108-27	IA-IOM	TEM grid; box A0108 slot A1	
A0108-30	IA-IOM	Epoxy stub	
A0108-32	IA-IOM	TEM grid; box A0108 slot E1	
A0108-35	IA-IOM	Fragment of original A0108-11 garin on glass silde	
A0108-36	IA-IOM	Epoxy stub	
A0108-38	IA-IOM	TEM grid; box A0108 slot J1	
A0108-40	IA-IOM	TEM grid; box A0108 slot J3	
A0108-41	IA-IOM	TEM grid; box A0108 slot J4	
A0108-42	IA-IOM	Epoxy stub	
A0108-46	IA-IOM	TEM grid; box A0108 slot N2	
A0108-48_intact	IA-IOM	crushed, FTIR	
A0108-49_intact	IA-IOM	crushed, FTIR, Raman	
A0108-4_intact	IA-IOM	STXM	
A0108-50_intact	IA-IOM	crushed, FTIR	
A0108-51_intact	IA-IOM	crushed, FTIR, Raman	
A0108-52_intact	IA-IOM	crushed, FTIR	
A0108-53_intact	IA-IOM	particle, FTIR, Raman	
A0108-54_intact	IA-IOM	particle, FTIR, Raman	
A0108-55_intact	IA-IOM	particle, FTIR, Raman	
A0108-57	IA-IOM	FIB liftout; box A0108 slot R1	
A0108-5_intact	IA-IOM	FTIR, Raman	
A0108-60_intact	IA-IOM	particle, FTIR, Raman	
A0108-61_intact	IA-IOM	particle, FTIR, Raman	
A0108-62_intact	IA-IOM	particle, FTIR	
A0108-63_intact	IA-IOM	particle, FTIR	
A0108-65	IA-IOM	FIB liftout from NanoSIMS hotspot	
A0108-67_intact	IA-IOM	HCl-residue in vial (phyllosilicates and IOM), H- NMR	
A0108-68_intact	IA-IOM	HCl-residue in vial (phyllosilicates and IOM), Reflectance	
A0108-69 intact	IA-IOM	On nanoSIMS base, NanoSIMS	
A0108-6 intact	IA-IOM	FTIR, Rama, nanoSIMS	
A0108-70_intact	IA-IOM	Au plate in petri dish for FIB, separated from A0108-16	
A0108-71_intact	IA-IOM	Au plate in petri dish for FIB, separated from A0108-16	
A0108-72_intact	IA-IOM	Au plate in petri dish for FIB, separated from A0108-16	
A0108-73_intact	IA-IOM	Au plate in petri dish for FIB, separated from A0108-16	
A0108-74_intact	IA-IOM	Au plate in petri dish for FIB, separated from A0108-16	
A0108-75_intact	IA-IOM	Au plate in petri dish for FIB, separated from A0108-12	

Sample name	Distribution	Description	Status
A0108-76_intact	IA-IOM	Au plate in petri dish for FIB, separated from A0108-12	
A0108-77_intact	IA-IOM	particle, FTIR	
A0108-78_intact	IA-IOM	particle, FTIR	
A0108-79 intact	IA-IOM	on slide glass, HF/HCl	
A0108-7 intact	IA-IOM	FTIR, Raman	
	IA-IOM	Fragments of original A0108-8 grain on glass slide	
A0108-80 intact	IA-IOM	on slide glass, HF/HCl	
A0108-81 intact	IA-IOM	on slide glass	
A0108-82 intact	IA-IOM	on slide glass	
A0108-83 intact	IA-IOM	on slide glass	
A0108-84 intact	IA-IOM	on slide glass	
A0108-85 intact	IA-IOM	on slide glass	
A0108-86 intact	IA-IOM	on slide glass	
A0108-87 intact	IA-IOM	FIB on STXM holder1 (Pos#5)	
A0108-88 intact	IA-IOM	FIB on STXM holder2 (Pos#4)	
	IA-IOM	Fragment on glass slide	
A0108-91 intact	IA-IOM	FIB on STXM holder11 (Pos#5)	
A0182-01	Ph2-Kochi	Fragments on carbon tape, FIB section extracted	
A0182-02 PS	Ph2-Kochi	Polished section, carbon coat, SEM/EDS	
A0182-21 FIB	Ph2-Kochi	FIB section	
A0183-01	Ph2-Kochi	Fragments, XCT	
A0218-00	Ph2-Kochi	Fragments	
A0218-01	Ph2-Kochi	Fragments, kept in terrestrial atmosphere	
A0218-02	Ph2-Kochi	Fragments on carbon tape, kept in terrestrial	
A0218-03	Ph2-Kochi	Fragment on carbon tape, kept in terrestrial atmosphere	
A0218-04 InP	Ph2-Kochi	Fragments, Indium pressed, TOF-SIMS	
A0218-05	Ph2-Kochi	Fragments on carbon tape	
A0218-21	Ph2-Kochi	Fragments on carbon tape. FIB section extracted	
A0218-23	Ph2-Kochi	Fragments on carbon tape, FIB section extracted	
A0218-24 FIB	Ph2-Kochi	FIB-section	
A0218-25 FIB	Ph2-Kochi	FIB-section	
C0002-00 01	IA-Stone		
C0002-00 02	IA-Stone		
C0002-10 IOM residue	IA-IOM	FTIR	
C0002-11 IOM residue	IA-IOM	FTIR	
C0002-12 IOM residue	IA-IOM	FTIR	
C0002-13 IOM residue	IA-IOM	Reflectance	
C0002-14 IOM residue	IA-IOM	Au-embedding, PF-STXM	
C0002-15_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), on diamond, FTIR	
C0002-16_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), on diamond, FTIR	
C0002-2 IOM residue	IA-JOM	NanoSIMS	
C0002-3 IOM residue	IA-IOM	NanoSIMS	
C0002-40	IA-Stone	Indium glassfiber	
C0002-4 IOM residue	IA-IOM	NanoSIMS	
C0002-5 IOM residue	IA-JOM	NanoSIMS	
C0002-6 IOM residue	IA-IOM	FTIR	<u> </u>
			L

Sample name	Distribution	Description	Status
C0002-7_IOM_residue	IA-IOM	FTIR	
C0002-8_IOM_residue	IA-IOM	FTIR	
C0002-9_IOM_residue	IA-IOM	FTIR	
C0002-C1001	IA-Chem,	nolished section	ON-
	AO2	polisied section	LOAN
C0002-C2001	IA-Chem	Indium-pressed	
C0002-C2002	IA-Chem,	Indium-pressed	ON-
	AO2	indum-pressed	LOAN
C0002-C3001	IA-Chem,	FIB-section	ON-
	AO2		LOAN
C0002-C3002	IA-Chem,	FIB-section	ON-
	AO2		LOAN
C0002-C3003	IA-Chem,	FIB-section	ON-
	AO2		LOAN
C0002-C3004	IA-Chem,	FIB-section	ON-
C0002 C1000	A02	· · 1	LUAN
C0002-C4000	IA-Chem	residue	
C0002-C5001	IA-Chem	Fraction Fe+tr., Solvent 3M HNO3-0.2M HF	
C0002-C5002	IA-Chem	Fraction Ca+tr., Solvent 10M HNO3	
C0002-C3003	IA-Chem	Fraction Mg-N1., Solvent TM HNO3	
C0002-FC001	IA-Stone		
C0002-FC002	IA-Stone		
C0002-FC003	IA-Stone	Partiala arthan fiber Machavar	
C0002-FC004	IA-Stone	Faiticle carbon noei, wosbauer	
0002-10003	IA-Stone		ON
C0002-FC009		Thin-section on FIB grid, FIB, TEM, XCT	LOAN
	IA-Stone	particle Ti-needle, FIB, XCT	ON-
C0002-FC009_CT001	AQ2		LOAN
C0002-FC012	IA-Stone	TOF-SIMS, FIB, XCT, TOF-SIMS	20111
C0002-FC013	IA-Stone	, , ,	
C0002-FC014	IA-Stone	Indium-pressed, Raman	
C0002-FC015	IA-Stone	Indium-pressed, Raman	
C0002-FC016	IA-Stone	Polished section, Resin	
C0002-FC016 05	IA-Stone	Polished section, Resin	
C0002-FC016 06	IA-Stone	Polished section, Resin	
C0002-FC017	IA-Stone	Polished section, Resin	
C0000 EC010	IA St-	Indium-pressed, No magnetic field SEM-EDS, No	
C0002-FC019	IA-Stone	magnetic field FIB	
C0002-FC019_FIB01	IA-Stone	Thin-section on FIB grid, TEM-EDS	
C0002-FC019_FIB02	IA-Stone		
C0002-FC019_FIB03	IA-Stone		
C0002-FC020	IA-Stone		
C0002-FC021	IA-Stone	Indium-pressed, No magnetic field SEM-EDS	
C0002-FC029	IA-Stone		
C0002-	IA-Stone		
FC030_heated200to500	In Stone		
C0002-	IA-Stone		
FC031_heated400to500			
C0002-FIB001	IA-Stone	Thin-section on FIB grid, FIB, TEM	
C0002-FIB002	IA-Stone	Thin-section on FIB grid, FIB, TEM, STXM	
C0002-FO05	IA-Stone		

Sample name	Distribution	Description	Status
C0002-IOM_1	IA-Stone	In wrapping paper, FTIR	
C0002-IOM_2	IA-Stone	In wrapping paper, FTIR	
C0002-IOM_4	IA-Stone	In wrapping paper, FTIR	
C0002-P5	IA-Stone, AO2	Polished section, SEM, EPMA, FIB, SIMS	ON- LOAN
C0002-P5_FIB001	IA-Stone,	Thin-section on FIB grid, FIB, TEM	ON- LOAN
 C0002-P5_FIB002	IA-Stone,	Thin-section on FIB grid, FIB, TEM	ON-
C0002-P5 FIB003	IA-Stone	Thin-section on FIB grid, FIB, TEM	Lonit
C0002-P5 FIB004	IA-Stone	Thin-section on FIB grid, FIB, TEM	
C0002-P5 FIB005	IA-Stone	Thin-section on FIB grid, FIB, TEM, STXM	
C0002-P5 FIB006	IA-Stone	Thin-section on FIB grid, FIB, TEM, STXM	
 C0002-P5_FIB007	IA-Stone	Thin-section on FIB grid, FIB, TEM	
C0002-P5_FIB008	IA-Stone	Thin-section on FIB grid, FIB, TEM	
C0002-P5_FIB009	IA-Stone	Thin-section on FIB grid FIB TEM	
	IA-Stone		ON-
C0002-P6	AO2	Polished section, SEM, EPMA, FIB	LOAN
C0002 BC CT001	IA-Stone,	and the Times He FID VCT	ON-
C0002-P6_C1001	AO2	particle 11-needle, FIB, XC1	LOAN
C0002-P6_CT002	IA-Stone	particle Ti-needle, FIB, XCT	LOST
C0002-P6_CT003	IA-Stone	particle Ti-needle, FIB, XCT	LOST
C0002-P6_CT004	IA-Stone	particle Ti-needle, FIB, XCT	
С0002-Р6 СТ005	IA-Stone	particle Ti-needle, FIB, XCT	LOST
C0002-P6 CT006	IA-Stone	particle Ti-needle, FIB, XCT	LOST
C0002-P6 FIB001	IA-Stone	Thin-section on FIB grid, XCT, FIB, TEM	
C0002-P6 FIB002	IA-Stone	Thin-section on FIB grid, XCT, FIB, TEM	
 C0002-P6 FIB003	IA-Stone	Thin-section on FIB grid, FIB, TEM	
C0002-P6_FIB004	IA-Stone	Thin-section on FIB grid, FIB, TEM	
 C0002-P6 FIB005	IA-Stone	Thin-section on FIB grid, FIB, TEM, XCT	
 C0002-P6_FIB006	IA-Stone	Thin-section on FIB grid, FIB, TEM	
C0002-P6 FIB007	IA-Stone	Thin-section on FIB grid, FIB, TEM	
 C0002-P6_FIB008	IA-Stone	Thin-section on FIB grid, FIB, TEM, XCT	
C0002-P6_FIB009	IA-Stone,	Thin-section on FIB grid, FIB, TEM, XCT	ON- LOAN
C0002-P6 magnesite	IA-Stone	Polished section SEM Raman	LOAN
C0002-S001	IA-SOM	Particles enclosed in an alminum foil	
C0002-SH4 chand5 tranche1	IA-Stone	FIB	
C0002-SH4_chand5_tranche2	IA-Stone	FIB	
C0002-V01_LET723_A	IA-VOL	Solution between Be and Al fraction from cation	
C0002-V01_LET723_B	IA-VOL	Solution before Be fraction from cation	
C0002 V01 JET722 C		Mn fraction from anion abromatograph	
C0002-V01_LE1/23_C	IA-VUL	Remaining solution after separation of A. B. and C	
C0002-V01_LET723_D	IA-VOL	solutions	
C0002-V02_LET724_A	IA-VOL	Solution between Be and Al fraction from cation chromatograph	
C0002-V02_LET724_B	IA-VOL	Solution before Be fraction from cation chromatograph	
C0002-V02_LET724_C	IA-VOL	Mn fraction from anion chromatograph	

Sample name	Distribution	Description	Status
C0002-V02_LET724_D	IA-VOL	Remaining solution after separation of A, B, and C solutions	
C0002-p3_4_powder01	IA-Stone	particle, In petridish, FTIR, Physical property measurement	
C0002-p3_4_powder02	IA-Stone	particle, In petridish, FTIR, Physical property measurement	
C0002-p3_4_powder10	IA-Stone	powder, bottle, FTIR	
C0002-p3_4_powder3	IA-Stone	Particle on mnini In petridish, Physical property measurement	
C0002-p3_4_powder4	IA-Stone	Particle on mnini In petridish, Physical property measurement	
C0002-p3_4_powder5	IA-Stone	Particle on mnini In petridish, Physical property measurement	
C0002-p3_4_powder6	IA-Stone	Particle on mnini In petridish, Physical property measurement	
C0002-p3_4_powder7	IA-Stone	powder, bottle	
C0002-p3_4_powder8	IA-Stone	powder, bottle, FTIR	
C0002-p3_4_powder9	IA-Stone	powder, bottle, FTIR	
C0002-powder1	IA-Stone		
C0009-00	Ph2-Kochi	Fragments, CT(XCT, XRD-CT), XRD	
C0009-01	Ph2-Kochi	Fragments, CT(XCT, XRD-CT), XRD	
C0009-02_PS	Ph2-Kochi	Polished section, gold coat, SEM/EDS, EPMA	
C0009-1_F1_FIB	Ph2-Kochi	FIB section, TEM	
C0009-1_F3_FIB	Ph2-Kochi	FIB section, TEM	
C0009-21	Ph2-Kochi	Fragment on carbon tape, FIB section extracted	
C0009-22_FIB	Ph2-Kochi	FIB section, STXM, nanoSIMS, TEM	
C0009-23_FIB	Ph2-Kochi	FIB section, STXM, nanoSIMS, TEM	
C0014-01	Ph2-Kochi	Fragments, XCT	
C0014-02_PS	Ph2-Kochi	Polished section, carbon coat, SEM/EDS, EPMA	
C0014-1C F1 FIB	Ph2-Kochi	FIB section, TEM	
C0014-1C F2 FIB	Ph2-Kochi	FIB section, TEM	
C0023-00	IA-Stone		
C0023-01	IA-Stone, AO2	Polished section, EPMA, SEM, SIMS	ON- LOAN
C0023-03	IA-Stone	Polished section, EPMA, SEM, SIMS	
C0023-FC001	IA-Stone	Particle carbon fiber, XRD, XCT	
C0023-FC002	IA-Stone	Particle carbon fiber, Mossbauer	
C0023-FC009	IA-Stone	Heated to 600 dgreeC, Embedded SiO2 powder	
C0023-FC010	IA-Stone	Particle carbon fiber, XRD	
C0023-FC011	IA-Stone	Particle carbon fiber, XRD	
C0025-00	IA-Stone		
C0025-01	IA-Stone, AO3	Polished section, SEM, EPMA	
C0025-02	IA-Stone, AO2	Polished section, SEM, EPMA	ON- LOAN
C0025-02_FIB001	IA-Stone	FIB, C0025-02 carb "A"	
C0025-02_FIB002	IA-Stone, AO2	FIB, C0025-02 carb "B"	ON- LOAN
C0025-02_FIB003	IA-Stone, AO2	FIB, C0025-02 SrO2 "C"	ON- LOAN
C0025-03	IA-Stone, AO2	Polished section, SEM, EPMA	ON- LOAN

C0025-FC001         IA-Stone         XRD, Particle carbon fiber, HY2-4 B4, transferred 20220705 C0025 A-1           C0033-00         IA-Stone, AO2         XRD, Particle carbon fiber, HY2-4 B5, transferred 20220705 C0025 A-2           C0033-00         IA-Stone, AO2         Wini petridish         ON- LOAN           C0033-01_FIB001         IA-Stone, AO2         Polished section, SEM, EPMA         ON- LOAN           C0033-01_FIB002         IA-Stone, AO2         FIB         ON- LOAN           C0033-01_FIB003         IA-Stone, AO2         FIB         ON- LOAN           C0033-01_FIB004         IA-Stone, AO2         FIB         ON- LOAN           C0033-01_FIB005         IA-Stone, AO2         FIB         ON- LOAN           C0033-01_FIB006         IA-Stone         FIB         ON- LOAN         ON- LOAN           C0033-01_FIB005         IA-Stone         FIB         ON- LOAN         ON- LOAN           C0033-04         IA-Stone         FIB         ON- LOAN         ON- LOAN           C0033-04         IA-Stone         FIB         IA- CO033-04         ON- LOAN           C0033-04         IA-Stone         FIB         IA- CO033-04         ON- LOAN           C0033-01         IA-Stone         FIB         IA- CO033-04         ON- LOAN           C00	Sample name	Distribution	Description	Status
C0025 PC001         IA-Stone         XRD, Particle carbon fiber, HY2-4 B5, transferred 20220705           C0025-FC002         IA-Stone         Mini petridish         Image: Comparison of the carbon fiber, HY2-4 B5, transferred 20220705           C0033-00         IA-Stone, A02         Polished section, SEM, EPMA         ON-           C0033-01_FIB001         IA-Stone, A02         Polished section, SEM, EPMA         ON-           C0033-01_FIB002         IA-Stone, A02         FIB         ON-         DON-           C0033-01_FIB003         IA-Stone, A02         FIB         ON-         DON-           C0033-01_FIB004         IA-Stone, A02         FIB         ON-         DON-           C0033-01_FIB005         IA-Stone         FIB         ON-         DON-           C0033-01_FIB006         IA-Stone         Polished section, SEM, EPMA         ON-           C0033-04         IA-Stone         Polished section, SEM, EPMA         DON           C0033-04         IA-Stone         FIB         ON-         LOAN           C0033-04_FIB001         IA-Stone         FIB         ON-         LOAN           C0033-04_FIB002         IA-Stone         FIB         ON-         LOAN           C0033-04_FIB003         IA-Stone         FIB         ON-         LOAN<	C0025 EC001	IA Stone	XRD, Particle carbon fiber, HY2-4 B4, transferred 2	0220705
C0025-FC002         IA-Store C0025 A-2         XRD, Particle carbon fiber, HY2-4 B5, transferred 20220705 C0025 A-2           C0033-01         IA-Store, AO2         Mini petridish         ON-           C0033-01         IA-Store, AO2         Polished section, SEM, EPMA         ON-           C0033-01_FIB001         IA-Store, AO2         FIB, FIB         ON-           C0033-01_FIB002         IA-Store, AO2         FIB         ON-           C0033-01_FIB004         IA-Store, AO2         FIB         ON-           C0033-01_FIB005         IA-Store, AO2         FIB         ON-           C0033-01_FIB006         IA-Store, AO2         FIB         ON-           C0033-01_FIB006         IA-Store, AO2         FIB         ON-           C0033-01_FIB006         IA-Store, AO2         FIB         ON-           C0033-04         IA-Store, AO2         FIB         ON-           C0033-04         IA-Store, AO2         FIB         ON-           C0033-04         IB002         IA-Store, FIB         FIB         ON-           C0033-04         IB002         IA-Store, FIB         FIB         ON-           C0033-04         IB002         IA-Store, FIB         ON-         ON-           C0033-04         IB002	C0023-FC001	IA-Stone	C0025 A-1	
C0023-00IA-StoneKourstand $C0033-01$ IA-Stone, AO2Polished section, SEM, EPMAON- LOAN $C0033-01$ IA-Stone, AO2FIB, FIBON- LOAN $C0033-01$ IA-Stone, AO2FIB, FIBON- LOAN $C0033-01$ IA-Stone, AO2FIBON- LOAN $C0033-01$ IA-Stone, AO2FIBON- LOAN $C0033-01$ FIB001IA-Stone, FIBFIBON- LOAN $C0033-01$ FIB005AO2FIBON- LOAN $C0033-01$ FIB006IA-Stone, FIBFIBON- LOAN $C0033-02$ IA-StonePolished section, SEM, EPMAON- LOAN $C0033-03$ IA-Stone, AStone,Polished section, SEM, EPMAON- LOAN $C0033-04$ IA-Stone, AO2FIBON- LOAN $C0033-04$ IA-Stone, FIBFIBON- LOAN $C0033-04$ FIB001IA-StoneFIB $C0033-04$ FIB001IA-StoneFIB $C0033-04$ FIB004IA-StoneFIB $C0033-FC003$ IA-StoneFIBON- CO033-FC004IA-Stone $C0033-FC004$ IA-StoneFIBON- LOAN $C0040-02$ IA-Stone, AO2Polished section, SEM, EPMAON- LOAN $C0040-02$ IA-Stone, AO2Polished section, SEM, EPMAON- LOAN $C0040-02$ IA-Stone, AO2Polished section, SEM, EPMAON- LOAN $C0040-02$ IA-Stone, AO2Polished section, SEM, EPMA <t< td=""><td>C0025 EC002</td><td>IA Stone</td><td colspan="2">XRD, Particle carbon fiber, HY2-4 B5, transferred 202207</td></t<>	C0025 EC002	IA Stone	XRD, Particle carbon fiber, HY2-4 B5, transferred 202207	
C0033-01IA-Stone, AO2Min petridishON- LOANC0033-01IA-Stone, AO2Polished section, SEM, EPMAON- LOANC0033-01FIB001IA-Stone, AO2FIB, FIBON- LOANC0033-01FIB002IA-Stone, AO2FIBON- LOANC0033-01FIB003IA-Stone, AO2FIBON- LOANC0033-01FIB004IA-Stone, AO2FIBON- LOANC0033-01FIB006IA-Stone, AO2FIBON- LOANC0033-02IA-Stone, AO2FIBON- LOANC0033-03IA-Stone, AO2Polished section, SEM, EPMAON- LOANC0033-04IA-Stone, AO2Polished section, SEM, EPMAON- LOANC0033-04IA-Stone, AO2Polished section, SEM, EPMAON- LOANC0033-04FIB002IA-StoneFIBON- LOANC0033-04FIB002IA-StoneFIBON- LOANC0033-04FIB003IA-StoneFIBON- LOANC0033-04FIB003IA-StoneFIBON- LOANC0033-04FIB005IA-StoneFIBON- LOANC0033-04FIB005IA-StoneFIBON- LOANC0033-FC004IA-StoneFIB, TEMON- LOANC0033-FC005IA-StonePolished section, SEM, EPMAON- LOANC0040-01IA-StonePolished section, SEM, EPMA, SIMSON- LOANC0040-02IA-StonePolished section, SEM, EPMA, SIMS </td <td></td> <td>IA-Stolle</td> <td>C0025 A-2</td> <td></td>		IA-Stolle	C0025 A-2	
C0033-01IA-Stone, AO2Polished section, SEM, EPMAON- LOANC0033-01 FIB001IA-Stone, AO2FIB, FIBON- LOANC0033-01 FIB003IA-Stone, AO2FIBON- LOANC0033-01 FIB004IA-Stone, AO2FIBON- LOANC0033-01 FIB005IA-Stone, AO2FIBON- LOANC0033-01 FIB005IA-Stone, AO2FIBON- LOANC0033-01 FIB005IA-StoneFIBON- LOANC0033-02IA-StonePolished section, SEM, EPMAON- LOANC0033-03IA-StonePolished section, SEM, EPMAON- LOANC0033-04IA-StonePolished section, SEM, EPMAON- LOANC0033-04IA-StoneFIBON- LOANC0033-04FIB001IA-StoneFIBC0033-04FIB002IA-StoneFIBC0033-04FIB003IA-StoneFIBC0033-04FIB003IA-StoneFIBC0033-40FIB004IA-StoneFIBC0033-FC004IA-StoneFIB, TEMC0033-FC005IA-StoneFIB, TEMC0033-FC006IA-StoneFIB, TEMC0033-FC001IA-StoneFIB, TEMC0033-FC002IA-StoneFIB, TEMC0040-00IA-StonePolished section, SEM, EPMA, SIMSC0040-01IA-StonePolished section, SEM, EPMAC0040-02IA-StoneFIB, FIB, XRDC0040-03IA-StonePolished section, SEM, EPMAC0040-001IA-St	C0033-00	IA-Stone	Mini petridish	
AQ2         IA-Stone, AQ2         FIB, FIB         IOA           C0033-01_FIB001         IA-Stone, AQ2         FIB         IOA           C0033-01_FIB002         IA-Stone, AQ2         FIB         ON- LOAN           C0033-01_FIB003         IA-Stone, AQ2         FIB         ON- LOAN           C0033-01_FIB004         IA-Stone, AQ2         FIB         ON- LOAN           C0033-01_FIB005         IA-Stone, AQ2         FIB         ON- LOAN           C0033-01_FIB006         IA-Stone, AQ2         FIB         ON- LOAN           C0033-01_FIB006         IA-Stone         FIB         ON- LOAN           C0033-02         IA-Stone         Polished section, SEM, EPMA         ON- LOAN           C0033-04         IA-Stone         FIB         ON- LOAN         ON- LOAN           C0033-04         FIBO01         IA-Stone         FIB         ON- LOAN           C0033-04         FIBO02         IA-Stone         FIB         ON- LOAN           C0033-04         FIBO03         IA-Stone         FIB         ON- LOAN           C0033-04         FIBO05         IA-Stone         FIB         ON- LOAN           C0033-FC003         IA-Stone         FIB         ON- LOAN         ON- LOAN           C003	C0033-01	IA-Stone,	Polished section, SEM, EPMA	ON-
C0033-01_FIB001IA-Stone, AO2FIB, FIBDON- LOANC0033-01_FIB002IA-StoneFIBON- CO033-01_FIB004IA-StoneFIBC0033-01_FIB004IA-StoneFIBON- LOANC0033-01_FIB005IA-StoneFIBON- CO033-01_FIB006IA-StoneC0033-01_FIB006IA-StoneFIBON- LOANC0033-01_FIB006IA-StoneFIBON- LOANC0033-02IA-StonePolished section, SEM, EPMAON- LOANC0033-03IA-StonePolished section, SEM, EPMAON- LOANC0033-04IA-StoneFIBON- LOANC0033-04IA-StoneFIBON- LOANC0033-04FIB001IA-StoneFIBC0033-04FIB001IA-StoneFIBC0033-04FIB003IA-StoneFIBC0033-04FIB004IA-StoneFIBC0033-FC003IA-StoneFIBIA- CO033-FC004IA-StoneC0033-FC004IA-StoneIndium-pressed, RamanIA- CO033-FC004C0033-FC005IA-StoneMin petridishIA- CON- LOANC0040-00IA-StonePolished section, SEM, EPMA, SIMSON- LOANC0040-01IA-StonePolished section, SEM, EPMA, SIMSON- LOANC0040-02IA-StonePolished section, SEM, EPMA, SIMSIA- Stone, AO2C0040-FC003IA-StonePolished section, SEM, EPMA, SIMSIA- Stone, AO2C0040-FC005IA-StonePolished section, SEM, Resi		AO2		LOAN
AO2         IDAN           C0033-01_FIB002         IA-Stone, AO2         FIB         ON- LOAN           C0033-01_FIB003         IA-Stone, AO2         FIB         ON- LOAN           C0033-01_FIB004         IA-Stone, AO2         FIB         ON- LOAN           C0033-01_FIB005         IA-Stone, AO2         FIB         ON- LOAN           C0033-01_FIB006         IA-Stone         FIB         ON- LOAN           C0033-02         IA-Stone         Polished section, SEM, EPMA         ON- LOAN           C0033-03         IA-Stone         FIB         ON- LOAN         ON- LOAN           C0033-04         IA-Stone         FIB         ON- LOAN         ON- LOAN           C0033-04         FIB001         IA-Stone         FIB         ON- LOAN           C0033-04         FIB003         IA-Stone         FIB         ON- LOAN           C0033-04         FIB003         IA-Stone         FIB         ON- LOAN           C0033-04         FIB003         IA-Stone         FIB         ON- LOAN           C0033-FC003         IA-Stone         IA-Stone         IA- Stone         IA- Stone         ON- LOAN           C0033-FC005         IA-Stone         Paticle carbon fiber, XRD         ON- LOAN         ON- LOAN	C0033-01_FIB001	IA-Stone,	FIB, FIB	ON-
C0033-01 FIB002         IA-Stone         FIB         ON-           C0033-01 FIB003         IA-Stone         FIB         ION-           C0033-01 FIB004         IA-Stone         FIB         ON-           C0033-01 FIB005         IA-Stone         FIB         ON-           C0033-01 FIB005         IA-Stone         FIB         ON-           C0033-01 FIB006         IA-Stone         Polished section, SEM, EPMA         ON-           C0033-02         IA-Stone         Polished section, SEM, EPMA         ON-           C0033-03         IA-Stone         FIB         ON-         LOAN           C0033-04         IA-Stone         FIB         ON-         LOAN           C0033-04         FIBO01         IA-Stone         FIB         ON-         LOAN           C0033-04         FIBO02         IA-Stone         FIB         ON-         LOAN         LOAN           C0033-40 FIB003         IA-Stone         FIB         ON-         LOAN         IA-Stone         FIB         ON-         IA-Stone         IA		AO2	FID	LOAN
C0033-01_FIB003IA-Stone AO2FIBIDANC0033-01_FIB004IA-StoneFIBIDANC0033-01_FIB005IA-StoneFIBON- LOANC0033-01_FIB006IA-StoneFIBIDANC0033-02IA-StonePolished section, SEM, EPMAIDANC0033-03IA-StonePolished section, SEM, EPMAON- LOANC0033-04IA-StoneFIBIDANC0033-04IA-StoneFIBIDANC0033-04IA-StoneFIBIDANC0033-04FIB001IA-StoneFIBC0033-04FIB002IA-StoneFIBC0033-04FIB003IA-StoneFIBC0033-04FIB004IA-StoneFIBC0033-FC003IA-StoneFIBIDAC0033-FC004IA-StoneFIBIDAC0033-FC005IA-StoneFIBIDAC0033-FC006IA-StoneIDA-StoneIDAC0033-FC007IA-StoneMini petridishIDANC0040-00IA-StonePolished section, SEM, EPMA, SIMSON- LOANC0040-01IA-StoneFIB, FIB, TRMIDANC0040-02IA-StoneFIB, FIB, SRDIDANC0040-02IA-StonePolished section, SEM, EPMA, SIMSON- LOANC0040-C003IA-StonePolished section, SEM, EPMA, SIMSON- LOANC0040-C005IA-StonePolished section, SEM, ResinIDANC0040-FC005IA-StonePolished section, SEM, ResinIDANC0	C0033-01_F1B002	IA-Stone	FIB	ON
1000         1000         1000           C0033-01_FIB004         IA-Stone         FIB         ON-           C0033-01_FIB005         IA-Stone         FIB         ON-           C0033-02         IA-Stone         Polished section, SEM, EPMA         ON-           C0033-02         IA-Stone         Polished section, SEM, EPMA         ON-           C0033-03         IA-Stone         Polished section, SEM, EPMA         ON-           C0033-04         IA-Stone         FIB         ON-         IOAN           C0033-04         IA-Stone         FIB         ON-         IOAN           C0033-04         FIB001         IA-Stone         FIB         ON-         IOAN           C0033-04         FIB003         IA-Stone         FIB         ON-         IOAN           C0033-04         FIB003         IA-Stone         FIB         ON-         IOAN           C0033-FC003         IA-Stone         FIB         ON-         IOAN         IOAN           C0033-FC005         IA-Stone         Particle carbon fiber, XRD         ON-         IOAN           C0040-00         IA-Stone,         Polished section, SEM, EPMA         ON-         IOAN           C0040-01         IA-Stone,         Polish	C0033-01_FIB003		FIB	LOAN
Coords         On-Store, AO2         FIB         ON- LOAN           C0033-01_FIB005         IA-Stone, AO2         FIB         ON- LOAN           C0033-01_FIB006         IA-Stone         Polished section, SEM, EPMA         ON- LOAN           C0033-02         IA-Stone         Polished section, SEM, EPMA         ON- LOAN           C0033-04         IA-Stone         Polished section, SEM, EPMA         ON- LOAN           C0033-04         IA-Stone         FIB         ON- LOAN           C0033-04         FIB001         IA-Stone         FIB           C0033-04         FIB003         IA-Stone         FIB           C0033-04         FIB005         IA-Stone         FIB         ON-           C0033-04         FIB005         IA-Stone         FIB         ON-           C0033-04         FIB005         IA-Stone         FIB         ON-           C0033-FC003         IA-Stone         Particle carbon fiber, XRD         ON-           C0033-FC005         IA-Stone         Polished section, SEM, EPMA         ON-           C0040-00         IA-Stone, AO2         Polished section, SEM, EPMA         ON-           C0040-01         IA-Stone, AO2         Polished section, SEM, EPMA         ON-           C0040-02	C0033-01 FIB004	IA-Stone	FIB	LOM
C0033-01_FIB005         AO2         FIB         LOAN           C0033-01_FIB006         IA-Stone         FIB         LOAN           C0033-02         IA-Stone         Polished section, SEM, EPMA		IA-Stone		ON-
C0033-01_FIB006         IA-Stone         FIB           C0033-02         IA-Stone         Polished section, SEM, EPMA         ON-           C0033-03         IA-Stone,         AO2         Polished section, SEM, EPMA         ON-           C0033-04         IA-Stone,         AO2         Polished section, SEM, EPMA         ON-           C0033-04_FIB001         IA-Stone         FIB         ON-         IOAN           C0033-04_FIB003         IA-Stone         FIB         ON-         IOAN           C0033-04_FIB003         IA-Stone         FIB         ON-         IOAN           C0033-04_FIB003         IA-Stone         FIB         ON-         IOAN         IOAN           C0033-04_FIB005         IA-Stone         IRB         IOAN         IOAN <td>C0033-01_FIB005</td> <td>AO2</td> <td>FIB</td> <td>LOAN</td>	C0033-01_FIB005	AO2	FIB	LOAN
C0033-02         IA-Stone         Polished section, SEM, EPMA           C0033-03         IA-Stone, AO2         Polished section, SEM, EPMA         ON- LOAN           C0033-04         IA-Stone, AO2         Polished section, SEM, EPMA         ON- LOAN           C0033-04         FIB001         IA-Stone         FIB         ON- LOAN           C0033-04         FIB002         IA-Stone         FIB         ON- LOAN           C0033-04         FIB003         IA-Stone         FIB         ON- C0033-04         ON- C0033-FC003         IA-Stone         FIB           C0033-04         FIB005         IA-Stone         FIB         ON- C0033-FC003         IA-Stone         FIB           C0033-FC003         IA-Stone         Indium-pressed, Raman         ON- C0033-FC004         IA-Stone         ON- C0033-FC005         IA-Stone         ON- C0033-FC0001         IA-Stone         ON- C0033-FC0001         IA-Stone         ON- CO040-00         IA-Stone         ON- LOAN         IA-Stone         IA-Stone         IA-Stone         IA-Stone         IA-Stone <td< td=""><td>C0033-01 FIB006</td><td>IA-Stone</td><td>FIB</td><td></td></td<>	C0033-01 FIB006	IA-Stone	FIB	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	 C0033-02	IA-Stone	Polished section, SEM, EPMA	
C0033.04IA-Stone, AO2Polished section, SEM, EPMAON- LOAN $C0033.04$ FIB001IA-StoneFIB $C0033.04$ FIB002IA-StoneFIB $C0033.04$ FIB003IA-StoneFIB $C0033.04$ FIB004IA-StoneFIB $C0033.04$ FIB005IA-StoneFIB $C0033.04$ FIB005IA-StoneFIB.TEM $C0033.405$ FO004IA-StoneParticle carbon fiber, XRD $C0033.FC004$ IA-StoneParticle carbon fiber, XRD $C0033.FC004$ IA-Stone $C0033.FC004$ IA-Stone $C0033.FC004$ IA-Stone $C0033.FC002$ IA-Stone $C0040.00$ IA-Stone $C0040-00$ IA-Stone, $C0040-01$ IA-Stone, $AO2$ Polished section, SEM, EPMA, SIMSON- LOAN $C0040-02$ IA-Stone, AO2 $C0040-FC003$ IA-Stone $C0040-FC005$ IA-Stone $C0040-FC005$ IA-Stone $C0040-FC025$ PS01IA-Stone $C0040-FC025$ PS01IA-Stone $C0040-FC025$ PS01IA-StonePolished section, SEM, Resin $C0040-FC025$ PS01IA-StonePolished section, SEM, Resin $C0040-FC025$ PS01IA-StonePolished section, SEM, Resin $C0040-FC025$ PS01IA-Stone <td>C0033-03</td> <td>IA-Stone</td> <td>Polished section, SEM, EPMA</td> <td></td>	C0033-03	IA-Stone	Polished section, SEM, EPMA	
C0033-04         AO2         Folished section, SEM, EFMA         LOAN           C0033-04 FIB001         IA-Stone         FIB             C0033-04 FIB002         IA-Stone         FIB              C0033-04 FIB003         IA-Stone         FIB	C0022_04	IA-Stone,	D-1:-h-1	ON-
C0033-04_FIB001         IA-Stone         FIB           C0033-04_FIB002         IA-Stone         FIB	00033-04	AO2	Polished section, SEM, EPMA	LOAN
C0033-04_FIB002IA-StoneFIBC0033-04_FIB003IA-StoneFIBC0033-04_FIB004IA-StoneFIBC0033-04_FIB005IA-StoneFIBC0033-FC003IA-StoneIndium-pressed, RamanC0033-FC004IA-StoneParticle carbon fiber, XRDC0033-FC005IA-StoneIA-StoneC0033-FC001IA-StoneIA-StoneC0033-FC002IA-StoneIA-StoneC0033-FC001IA-StoneIA-StoneC0033-FC002IA-StoneIA-StoneC0040-00IA-StoneMini petridishC0040-01IA-Stone, AO2Polished section, SEM, EPMAC0040-02IA-Stone, AO2Polished section, SEM, EPMA, SIMSC0040-02IA-StoneFIB, FIB, XRDC0040-FC003IA-StoneIA-StoneC0040-FC003IA-StonePolished section, SEM, EPMA, SIMSC0040-FC005IA-StoneParticle carbon fiber, XRDC0040-FC005IA-StoneIA-StoneC0040-FC005IA-StoneParticle carbon fiber, XRDC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025IA-StonePolished section, SEM, ResinC0040-FC025IA-Stone<	C0033-04_FIB001	IA-Stone	FIB	
C0033-04_FIB003IA-StoneFIBC0033-04_FIB004IA-StoneFIB, TEMC0033-04_FIB005IA-StoneFIB, TEMC0033-FC003IA-StoneIndium-pressed, RamanC0033-FC005IA-StoneParticle carbon fiber, XRDC0033-FC005IA-StoneParticle carbon fiber, XRDC0033-FC002IA-Stone	C0033-04_FIB002	IA-Stone	FIB	
C0033-04_FIB004IA-StoneFIBC0033-04_FIB005IA-StoneFIB, TEMC0033-FC003IA-StoneIndium-pressed, RamanC0033-FC004IA-StoneParticle carbon fiber, XRDC0033-FC005IA-StoneC0033-FC001IA-StoneC0033-FC002IA-StoneC0033-FC001IA-StoneC0033-FC001IA-StoneC0040-00IA-StoneC0040-01IA-Stone, AO2Polished section, SEM, EPMAON- LOANC0040-02IA-Stone, AO2Polished section, SEM, EPMA, SIMSON- LOANC0040-02IA-Stone, AO2Polished section, SEM, EPMA, SIMSON- LOANC0040-FC003IA-StoneFIB, FIB, XRDC0040-FC004IA-StoneParticle carbon fiber, XRDC0040-FC005IA-StoneParticle carbon fiber, XRDC0040-FC005IA-StoneParticle carbon fiber, XRDC0040-FC025IA-StoneParticle carbon fiber, XRDC0040-FC025IA-StonePolished section, SEM, ResinC0040-FC025IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StoneParticle, SEM, FIB, TEMC0040-FC025_PS01IA-StoneParticles on Cu grid, non-magnet	C0033-04_FIB003	IA-Stone	FIB	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	C0033-04_FIB004	IA-Stone	FIB	
C0033-FC003IA-StoneIndium-pressed, Raman $C0033$ -FC004IA-StoneParticle carbon fiber, XRD $C0033$ -FC005IA-Stone $C0033$ -FC001IA-Stone $C0033$ -FC002IA-Stone $C0033$ -FC002IA-StoneMini petridish $C0040$ -00IA-Stone, AO2Polished section, SEM, EPMAON- LOAN $C0040$ -01IA-Stone, AO2Polished section, SEM, EPMA, SIMSON- LOAN $C0040$ -02IA-Stone, AO2Polished section, SEM, EPMA, SIMSON- LOAN $C0040$ -02IA-StoneFIB, FIB, XRD $C0040$ -FC003IA-StoneParticle carbon fiber, XRD $C0040$ -FC004IA-StoneParticle carbon fiber, XRD $C0040$ -FC005IA-StoneParticle carbon fiber, XRD $C0040$ -FC005IA-StonePolished section, SEM, Resin $C0040$ -FC025IA-StonePolished section, SEM, Resin $C0040$ -FC025IA-StoneParticle, SEM, FIB, TEM $C0040$ -FC025IA-StoneParticles on Cu grid, non-magnetic field TEM $C0040$ -FC041IA-StoneParticles on Cu grid, non-magnetic field TEM $C0040$ -FC041IA-StoneParticles on Cu grid, non-magnetic	C0033-04_FIB005	IA-Stone	FIB, TEM	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	C0033-FC003	IA-Stone	Indium-pressed, Raman	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	C0033-FC004	IA-Stone	Particle carbon fiber, XRD	
$ \begin{array}{c c} C0033-FO001 & IA-Stone \\ \hline C0033-FO002 & IA-Stone \\ \hline C0040-00 & IA-Stone & Mini petridish \\ \hline C0040-00 & IA-Stone & Mini petridish \\ \hline C0040-01 & IA-Stone & Polished section, SEM, EPMA & ON- LOAN \\ \hline AO2 & Polished section, SEM, EPMA, SIMS & ON- LOAN \\ \hline C0040-02 & IA-Stone & Polished section, SEM, EPMA, SIMS & ON- LOAN \\ \hline C0040-02 & IA-Stone & FIB, FIB, XRD & - \\ \hline C0040-FC003 & IA-Stone & Particle carbon fiber, XRD & - \\ \hline C0040-FC005 & IA-Stone & Particle carbon fiber, XRD & - \\ \hline C0040-FC005 & IA-Stone & - \\ \hline C0040-FC005 & IA-Stone & Polished section, SEM, Resin & - \\ \hline C0040-FC025_04 & IA-Stone & Polished section, SEM, Resin & - \\ \hline C0040-FC025_04 & IA-Stone & Polished section, SEM, Resin & - \\ \hline C0040-FC025_PS01 & IA-Stone & Polished section, SEM, Resin & - \\ \hline C0040-FC025_PS01 & IA-Stone & Polished section, SEM, Resin & - \\ \hline C0040-FC025_PS01 & IA-Stone & Polished section, SEM, Resin & - \\ \hline C0040-FC025_PS01 & IA-Stone & Polished section, SEM, Resin & - \\ \hline C0040-FC025_PS01 & IA-Stone & Polished section, SEM, Resin & - \\ \hline C0040-FC025_PS01 & IA-Stone & Particle, SEM, FIB, TEM & - \\ \hline C0040-FC025_PS01 & IA-Stone & Particles on Cu grid, non-magnetic field SEM & - \\ \hline C0040-FC025_PS01 & IA-Stone & Particles on Cu grid, non-magnetic field TEM & - \\ \hline C0040-FC041_043_TEM001 & IA-Stone & Particles on Cu grid, non-magnetic field TEM & - \\ \hline C0040-FC041_043_TEM004 & IA-Stone & Particles on Cu grid, non-magnetic field TEM & - \\ \hline C0040-FC041_043_TEM004 & IA-Stone & Particles on Cu grid, non-magnetic field TEM & - \\ \hline C0040-FC041_043_TEM004 & IA-Stone & Particles on Cu grid, non-magnetic field TEM & - \\ \hline C0040-FC041_043_TEM004 & IA-Stone & Particles on Cu grid, non-magnetic field TEM & - \\ \hline C0040-FC041_043_TEM004 & IA-Stone & Particles on Cu grid, non-magnetic field TEM & - \\ \hline C0040-FC041_043_TEM004 & IA-Stone & - \\ \hline C0040-FC044 & IA-Stone & - \\$	C0033-FC005	IA-Stone		
C0033-F0002IA-StoneMini petridishC0040-00IA-Stone, AO2Mini petridishON- LOANC0040-01IA-Stone, AO2Polished section, SEM, EPMAON- LOANC0040-02IA-Stone, AO2Polished section, SEM, EPMA, SIMSON- LOANC0040-02IA-StoneFIB, FIB, XRDON- LOANC0040-02IA-StoneFIB, FIB, XRDON- LOANC0040-FC003IA-StoneParticle carbon fiber, XRDON- LOANC0040-FC004IA-StoneParticle carbon fiber, XRDON- LOANC0040-FC005IA-StoneParticle carbon fiber, XRDON- LOANC0040-FC025_04IA-StonePolished section, SEM, ResinON- LOANC0040-FC025_PS01IA-StonePolished section, SEM, ResinON- LOANC0040-FC025_SP02IA-StonePolished section, SEM, ResinON- LOANC0040-FO01IA-StonePolished section, SEM, ResinON- LOANC0040-FO025IA-StonePolished section, SEM, ResinON- LOANC0040-FO010IA-StoneParticles on Cu grid, non-magnetic field SEMON- CO040-FO041_043_TEM003C0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEMON- CO040-FO041_043_TEM004C0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingParticles on Cu grid, non-magnetic field TEM, heating	C0033-FO001	IA-Stone		
$ \begin{array}{c c} \mbox{C0040-00} & IA-Stone & Minn petridish & ON- \\ \mbox{C0040-01} & IA-Stone, & Polished section, SEM, EPMA & ON- \\ \mbox{LOAN} & OO- $	C0033-FO002	IA-Stone		
$ \begin{array}{ c c c c c } & \mbox{IA-Stone,} & \mbox{Polished section, SEM, EPMA} & \mbox{ON-} & \mbox{LOAN} \\ \hline & \mbox{AO2} & \mbox{Polished section, SEM, EPMA, SIMS} & \mbox{ON-} & \mbox{OO40-02} \\ \hline & \mbox{AO2} & \mbox{Polished section, SEM, EPMA, SIMS} & \mbox{ON-} & \mbox{OO40} \\ \hline & \mbox{C0040-02} & \mbox{IA-Stone} & \mbox{FIB, FIB, XRD} & \mbox{IOAN} \\ \hline & \mbox{C0040-FC003} & \mbox{IA-Stone} & \mbox{Particle carbon fiber, XRD} & \mbox{IIA-Stone} & \mbox{IIA-Stone} & \mbox{Particle carbon fiber, XRD} & \mbox{IIA-Stone} & \mbox{IIA-Stone}$	C0040-00	IA-Stone	Mini petridish	0.V.
$A02$ IAO2IDAN $C0040-02$ IA-Stone, AO2Polished section, SEM, EPMA, SIMSON- LOAN $C0040-02$ FIB002IA-StoneFIB, FIB, XRDON- LOAN $C0040-FC003$ IA-StoneParticle carbon fiber, XRDON- LOAN $C0040-FC004$ IA-StoneParticle carbon fiber, XRDON- LOAN $C0040-FC005$ IA-StoneIA-StoneIA-Stone $C0040-FC025_04$ IA-StonePolished section, SEM, ResinIA-Stone $C0040-FC025_04$ IA-StoneParticle, SEM, FIB, TEMIA-Stone $C0040-F0001$ IA-StoneParticles on Cu grid, non-magnetic field SEMIA-Stone $C0040-F0041_043_TEM001$ IA-StoneParticles on Cu grid, non-magnetic field TEMIA-Stone $C0040-F0041_043_TEM003$ IA-StoneParticles on Cu grid, non-magnetic field TEMIA-Stone $C0040-F0041_043_TEM004$ IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingParticles on Cu grid, non-magnetic field TEM, heating	C0040-01	IA-Stone,	Polished section, SEM, EPMA	ON-
C0040-02IA-Stone, AO2Polished section, SEM, EPMA, SIMSON- LOANC0040-02_FIB002IA-StoneFIB, FIB, XRDC0040-FC003IA-StoneParticle carbon fiber, XRDC0040-FC004IA-StoneParticle carbon fiber, XRDC0040-FC005IA-StoneC0040-FC006IA-StoneC0040-FC025_04IA-StoneC0040-FC025_PS01IA-StoneC0040-FC025_PS02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025IA-StonePolished section, SEM, ResinC0040-FC025IA-StonePolished section, SEM, ResinC0040-FO001IA-StoneParticle, SEM, FIB, TEMC0040-FO025IA-StoneIndium-pressed, No magnetic field SEMC0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heating		AO2		LUAN
AO2HOANC0040-02_FIB002IA-StoneFIB, FIB, XRDC0040-FC003IA-StoneC0040-FC004IA-StoneParticle carbon fiber, XRDC0040-FC005IA-StoneC0040-FC006IA-StoneC0040-FC025_04IA-StoneC0040-FC025_PS01IA-StoneC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025IA-StoneParticle, SEM, FIB, TEMC0040-FO011IA-StoneParticles on Cu grid, non-magnetic field SEMC0040-FO041_043_TEM002IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-02	IA-Stone,	Polished section, SEM, EPMA, SIMS	UN-
C0040-FC003IA-StoneITB, FIB, FRB, FRDC0040-FC003IA-StoneParticle carbon fiber, XRDC0040-FC005IA-StoneIA-StoneC0040-FC006IA-StoneIA-StoneC0040-FC025_04IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FO001IA-StoneParticle, SEM, FIB, TEMC0040-FO025IA-StoneIndium-pressed, No magnetic field SEMC0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-02 FIB002	A02	FIB FIB YPD	LUAN
Coordo-FC005IA-StoneParticle carbon fiber, XRDC0040-FC005IA-StoneC0040-FC006IA-StoneC0040-FC025_04IA-StoneC0040-FC025_04IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025IA-StoneParticle, SEM, FIB, TEMC0040-FO011IA-StoneParticles on Cu grid, non-magnetic field SEMC0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-FC003	IA-Stone		
C0040-FC005IA-StoneInfection factor fieldC0040-FC006IA-StoneC0040-FC025_04IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StoneParticle, SEM, FIB, TEMC0040-FO01IA-StoneParticles on Cu grid, non-magnetic field SEMC0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044IA-StoneIA-Stone	C0040-FC004	IA-Stone	Particle carbon fiber_XRD	
C0040-FC006IA-StoneC0040-FC025_04IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FC025IA-StoneParticle, SEM, FIB, TEMC0040-FO01IA-StoneIndium-pressed, No magnetic field SEMC0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-FC005	IA-Stone		
C0040-FC025_04IA-StonePolished section, SEM, ResinC0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FO001IA-StoneParticle, SEM, FIB, TEMC0040-FO025IA-StoneIndium-pressed, No magnetic field SEMC0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-FC006	IA-Stone		
C0040-FC025_PS01IA-StonePolished section, SEM, ResinC0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FO001IA-StoneParticle, SEM, FIB, TEMC0040-FO025IA-StoneIndium-pressed, No magnetic field SEMC0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM002IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-FC025 04	IA-Stone	Polished section, SEM, Resin	
C0040-FC025_SP02IA-StonePolished section, SEM, ResinC0040-FO001IA-StoneParticle, SEM, FIB, TEMC0040-FO025IA-StoneIndium-pressed, No magnetic field SEMC0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM002IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-FC025 PS01	IA-Stone	Polished section, SEM, Resin	
C0040-FO001IA-StoneParticle, SEM, FIB, TEMC0040-FO025IA-StoneIndium-pressed, No magnetic field SEMC0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM002IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-FC025 SP02	IA-Stone	Polished section, SEM, Resin	
C0040-F0025IA-StoneIndium-pressed, No magnetic field SEMC0040-F0041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-F0041_043_TEM002IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-F0041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-F0041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-F0041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-F0044IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-FO001	IA-Stone	Particle, SEM, FIB, TEM	
C0040-FO041_043_TEM001IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM002IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM003IA-StoneParticles on Cu grid, non-magnetic field TEMC0040-FO041_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heatingC0040-FO044_043_TEM004IA-StoneParticles on Cu grid, non-magnetic field TEM, heating	C0040-FO025	IA-Stone	Indium-pressed, No magnetic field SEM	
C0040-FO041_043_TEM002       IA-Stone       Particles on Cu grid, non-magnetic field TEM         C0040-FO041_043_TEM003       IA-Stone       Particles on Cu grid, non-magnetic field TEM         C0040-FO041_043_TEM004       IA-Stone       Particles on Cu grid, non-magnetic field TEM, heating         C0040-FO044       IA-Stone       Particles on Cu grid, non-magnetic field TEM, heating	C0040-FO041_043_TEM001	IA-Stone	Particles on Cu grid, non-magnetic field TEM	
C0040-FO041_043_TEM003       IA-Stone       Particles on Cu grid, non-magnetic field TEM         C0040-FO041_043_TEM004       IA-Stone       Particles on Cu grid, non-magnetic field TEM, heating         C0040-FO044       IA-Stone       Particles on Cu grid, non-magnetic field TEM, heating	C0040-FO041_043_TEM002	IA-Stone	Particles on Cu grid, non-magnetic field TEM	
C0040-FO041_043_TEM004     IA-Stone     Particles on Cu grid, non-magnetic field TEM, heating       C0040-FO044     IA-Stone	C0040-FO041_043_TEM003	IA-Stone	Particles on Cu grid, non-magnetic field TEM	
C0040-F0044 IA-Stone	C0040-FO041_043_TEM004	IA-Stone	Particles on Cu grid, non-magnetic field TEM, heating	
	C0040-FO044	IA-Stone	<i>e</i>	

Sample name	Distribution	Description	Status
C0040-FO045	IA-Stone	Particle carbon fiber, XRD	LOST
C0040-FO047	IA-Stone	Particle carbon fiber, XRD	
C0040-FO048a	IA-Stone	Particle carbon fiber, XRD	
C0040-FO049	IA-Stone	Particle carbon fiber, XRD	
C0040-FO050	IA-Stone	Particle carbon fiber, XRD	
C0040-FO051	IA-Stone	Particle carbon fiber, XRD	
C0040-FO052	IA-Stone	Particle carbon fiber, XRD	
C0040-FO053	IA-Stone	Particle carbon fiber, XRD	
C0040-FO054	IA-Stone	Particle carbon fiber, XRD	
C0040-FO055	IA-Stone	Particle carbon fiber, XRD	
C0040-FO056	IA-Stone	Particle carbon fiber, XRD	
C0040-FO057	IA-Stone	Particle carbon fiber, XRD	
C0040-FO058	IA-Stone	Particle carbon fiber, XRD	
C0040-FO059	IA-Stone	Particle carbon fiber, XRD	LOST
C0040-FO060	IA-Stone	Particle carbon fiber, XRD	LOST
C0040-FO061	IA-Stone	Particle carbon fiber, XRD	LOST
C0040-FO062	IA-Stone	Particle carbon fiber, XRD	
C0040-FO063	IA-Stone	Particle carbon fiber, XRD	
C0040-FO064	IA-Stone	Particle carbon fiber, XRD	
C0040-FO065_01	IA-Stone	Particle, Magnetic field	
C0040-FO065_02	IA-Stone	Particle, Magnetic field	
C0046-00_1	IA-Stone	Particle in mini petridish	
C0046-00_2	IA-Stone	Particle in mini petridish	
C0046-01	IA-Stone	Polished section, SEM, EPMA, FTIR, SIMS	
C0046-02	IA-Stone	Polished section, SEM, EPMA	
C0046-FO001	IA-Stone	Indium-pressed (C0046-DR001), FIB	
C0046-FO003	IA-Stone	Indium-pressed, Raman	
C0046-FO004_010	IA-Stone	Polished section,Resin	
C0046-FO004_010_04	IA-Stone	Polished section,Resin	
C0046-FO004_010_05	IA-Stone	Resin	
C0046-FO004_010_06	IA-Stone	Resin	
C0046-FO006	IA-Stone	Polished section,Resin	
C0046-FO007	IA-Stone	Polished section,Resin	
C0046-FO008	IA-Stone	Polished section,Resin	
C0046-FO009	IA-Stone	Polished section,Resin	
C0046-FO010	IA-Stone	Polished section,Resin	
C0046-FO015	IA-Stone	Particle Al-needle, FIB, IR-CT, XCT	
C0055-00_01	IA-Stone	Quartz dish	
C0055-00_02	IA-Stone		
C0055-01	IA-Stone, AO2	Polished section, SEM, EPMA, FIB, Raman	ON- LOAN
C0055-01_FIB01	IA-Stone	FIB, TEM	
C0055-02	IA-Stone	Polished section, SEM, EPMA	
C0055-FO001	IA-Stone	Particle carbon fiber, XRD	
C0057-10_intact	IA-IOM	Intact particles, Cu disk	
C0057-11_intact	IA-IOM	HF-HCl, FTIR	
C0057-12_intact	IA-IOM	HF-HCl, FTIR	
C0057-13_intact	IA-IOM	on slide glass	
C0057-14_intact	IA-IOM	on slide glass	
C0057-15_intact	IA-IOM	FIB on STXM holder8 (Pos#2), 2022.1 at UVSOR	
C0057-16_intact	IA-IOM	FIB on STXM holder11 (Pos#2)	

Sample name	Distribution	Description	Status
C0057-1_intact	IA-IOM	residue (just a little)	
C0057-2_intact	IA-IOM	residue (just a little)	
C0057-3_intact	IA-IOM	FTIR	
C0057-4_intact	IA-IOM	Intact particles	
C0057-5_intact	IA-IOM	AFMIR	
C0057-6_intact	IA-IOM	FTIR, Raman	
C0057-7_intact	IA-IOM	FTIR	
C0057-8_intact	IA-IOM	Intact particles, Cu disk	
C0057 S001	IA SOM	Particles remaining on a sample dish, stored in a	
0057-5001	IA-SOM	glass vial	
C0057-S002	IA-SOM	Particle on a metal disk, stored in FFTC	
C0061-00_1	IA-Stone		
C0061_01	IA-Stone,	Polished section SEM EDMA Remon	ON-
00001-01	AO2	Fonshed section, SEW, EFWA, Kalilan	LOAN
C0061-02	IA-Stone	Polished section, SEM, EPMA	
C0061-03	IA-Stone	Polished section, SEM, EPMA	
C0061-FC001	IA-Stone		
C0061-FC002	IA-Stone		
C0061-FC003	IA-Stone	Polished section, Indium	
C0061-FC006	IA-Stone		
C0061-FC007	IA-Stone	Particle	
C0061-FC008	IA-Stone	Particle	
C0061-FC009	IA-Stone	Particle	
C0061-FO001	IA-Stone	Particle, Mini petridish, Not analyzed	
C0068-00	Ph2-Kochi	Fragments	
C0068-02	Ph2-Kochi	Fragment, kept in terrestrial atmosphere	
C0068-03	Ph2-Kochi	Fragment, epoxy mount for UMT	
C0068-04_UMT	Ph2-Kochi	UMT grid	
C0068-21	Ph2-Kochi	Fragments on carbon tape, FIB section extracted	
C0068-23_FIB	Ph2-Kochi	FIB section on SEM stub, TEM	
C0068-24_FIB	Ph2-Kochi	FIB section, TEM	
C0068-25_FIB	Ph2-Kochi	FIB section, STXM, nanoSIMS, TEM	
C0068-26_FIB	Ph2-Kochi	FIB section, STXM, nanoSIMS, TEM	
C0068-27_FIB	Ph2-Kochi	FIB section, STXM, nanoSIMS, TEM	
C0068-41_PS	Ph2-Kochi	Polished section, carbon coat, SEM/EDS, EPMA	
C0076-00_1	IA-Stone	Mini petridish	
C0076-01	IA-Stone, AO2	Polished section, SEM, EPMA	
C0076-01_FIB001	IA-Stone	Thin-section on FIB grid, FIB, TEM	
C0076-01_FIB002	IA-Stone	Thin-section on FIB grid, FIB, TEM, STXM	
C0076-01_FIB003	IA-Stone	Thin-section on FIB grid, C0076-01_ultrathin3, FIB, TEM, STXM	
0007( 00	IA-Stone,		ON-
C0076-02	AO2	Polisned section, SEM, EPMA, SIMS	LOAN
C0076-02_CT001	IA-Stone	Particle Ti-needle, FIB, XCT	
C0076-02_CT002	IA-Stone	Particle Ti-needle, FIB, XCT	
C0076-02_CT003	IA-Stone	Particle Ti-needle, FIB, XCT	
C0076-02_FIB001	IA-Stone	Thin-section on FIB grid, FIB, TEM, XCT	
C0076-02_FIB002	IA-Stone	Thin-section on FIB grid, FIB, TEM	
C0076-02_FIB003	IA-Stone	Thin-section on FIB grid, FIB, TEM	
C0076-03	IA-Stone	Polished section, SEM, EPMA	

Sample name	Distribution	Description	Status
C0076-04	IA-Stone	Polished section, SEM, EPMA	
C0076-05	IA-Stone	Polished section, SEM, EPMA	
C0076-06	IA-Stone, AO2	Polished section, SEM, EPMA	ON- LOAN
C0076-07	IA-Stone, AO2	Polished section, SEM, EPMA	ON- LOAN
C0076-08	IA-Stone, AO2	Polished section, SEM, EPMA	ON- LOAN
C0076-09	IA-Stone, AO2	Polished section, SEM, EPMA	ON- LOAN
C0076-10	IA-Stone, AO2	Polished section, SEM, EPMA, SIMS	ON- LOAN
C0076-11	IA-Stone	Polished section, SEM, EPMA	
C0076-FC001	IA-Stone	XRD, XCT	
C0076-FC002	IA-Stone	XRD	
C0076-FO001_TEM01	IA-Stone	Microtome	
C0076-FO001_TEM02	IA-Stone	Microtome	
C0076-FO001a	IA-Stone	potted butt	
C0076-FO002	IA-Stone		
C0076-FO002 TEM01	IA-Stone	Microtome	
C0076-FO002 TEM02	IA-Stone	Microtome	
C0076-FO002 TEM03	IA-Stone	Microtome	
C0076-FO002 TEM04	IA-Stone	Microtome	
C0076-FO002 TEM05	IA-Stone	Microtome	
C0076-FO003	IA-Stone	Potted butt	
C0076-FO003 FIB001	IA-Stone	FIB	
C0076-FO003 FIB002	IA-Stone	FIB	
C0076-FO003 TEM01	IA-Stone	Potted butt	
C0076-FO003_TEM02	IA-Stone	Potted butt	
C0076-FO004	IA-Stone	Potted butt	
C0076-FO004_FIB001	IA-Stone	FIB section	
C0076-FO004_FIB002	IA-Stone	FIB section	
C0076-FO004_TEM01	IA-Stone	Microtome	
C0076-FO004_TEM02	IA-Stone	Microtome	
C0076-FO007	IA-Stone	600C, SiO2 embedded	
C0076-FO008	IA-Stone	Heated to 600 dgreeC, Embedded SiO2	
C0076-FO009	IA-Stone, AO2	Indium-pressed, Not analyzed	
C0076-FO010	IA-Stone	XRD	
C0087-01	Ph2-Kochi	Fragments, XCT	
C0087-02	Ph2-Kochi	Fragments on carbon tape	
C0087-03	Ph2-Kochi	Fragments, kept in terrestrial atmosphere	
C0087-04	Ph2-Kochi	Fragments, carbon coat,kept in terrestrial atmosphere	
C0087-05	Ph2-Kochi	Powder, XRD, kept in terrestrial atmosphere	
C0087-06_PS	Ph2-Kochi	Polished section, carbon coat	
C0087-d_F1_FIB	Ph2-Kochi	FIB section, TEM	
C0087-d_F2_FIB	Ph2-Kochi	FIB section, TEM	
C0103-00_1	IA-Stone		
C0103-01	IA-Stone, AO3	Polished section, SEM, EPMA, EBSD	

Sample name	Distribution	Description	Status
C0103-02	IA-Stone, AO3	Polished section, SEM, EPMA	
C0103-FC001	IA-Stone	Particle carbon fiber, Mossbauer	
C0103-FC005_FIB001	IA-Stone, AO2	Thin-section on FIB grid, FIB, TEM, XCT	ON- LOAN
C0103-FC006	IA-Stone	Indium-pressed, SEM	
C0103-FC009_010_TEM001	IA-Stone	Particles on Cu grid, No magnetic field TEM	
C0103-FC009_010_TEM002	IA-Stone	Particles on Cu grid, No magnetic field TEM	
C0105-00	IA-Sand, AO2	Container and the remaining grains	ON- LOAN
C0105-030_000_00	IA-Sand, AO2	Sample stub, Observed and prepared at Kyushu U without exposure to the atmosphere using FIB- SEM. In addition, it was osberved at Kyoto U with FE-SEM.	ON- LOAN
C0105-030_037_01	IA-Sand, AO2	FIB section, TEM. Too thick.	ON- LOAN
C0105-031_000_00	IA-Sand	Sample stub, Allocated to U Jena. FIB-SEM.	
C0105-031_000_01	IA-Sand	FIB section, Prepared at U Jena. Due to unknown gr used for FIB, 000 was applied to this grain. TEM.	ain number
C0105-032_000_00	IA-Sand	Sample stub, Allocated to U Gre Alpes. FIB-SEM.	
C0105-033_000_00	IA-Sand, AO2	Sample stub, Allocated to U Hawaii. FIB-SEM.	ON- LOAN
C0105-034_000_00	IA-Sand	Sample stub, Allocated to U Lille. FIB-SEM.	
C0105-034_014a_01	IA-Sand, AO2	FIB section, Prepared at U Lille. Numbers on cases is G3. TEM. Space weathered.	ON- LOAN
C0105-034_016b_01	IA-Sand, AO2	FIB section, Prepared at U Lille. TEM. STXM- XANES but carbon contaminated. One grain shows space weathering. Number on the case is G4.	ON- LOAN
C0105-034_016b_02	IA-Sand, AO2	FIB section, Prepared at U Lille. TEM. STXM- XANES but carbon contaminated. One grain shows space weathering. Number on the case is G6.	ON- LOAN
C0105-034_017_01	IA-Sand, AO2	FIB section, Prepared at U Lille. TEM. Space weathering. Number on the case is G5.	ON- LOAN
C0105-034_020_01	IA-Sand, AO2	FIB section, Prepared at U Lille. Numbers on cases is G5. G1, G2, G5 are in the same case. TEM. Not space weathered.	ON- LOAN
C0105-034_020_02	IA-Sand, AO2	FIB section, Prepared at U Lille. Numbers on cases is G5. G1, G2, G5 are in the same case. TEM. Not space weathered.	ON- LOAN
C0105-035_000_00	IA-Sand		
C0105-036_000_00	IA-Sand	Sample stub, Allocated to US Naval Laboratory. FIB-SEM.	
C0105-037_000_00	IA-Sand, AO2		ON- LOAN
C0105-038_000_00	IA-Sand	Sample stub, Allocated to U Gre Alpes. FIB-SEM.	
C0105-039_000_00	IA-Sand	Sample stub, After FE-SEM observation, the sample U Hawaii. FIB-SEM	was sent to
C0105-039_023_00	IA-Sand, AO2	Extracxted grain, A grain was cut out using FIB- SEM at U Hawaii. The grain was embedded in epoxy and ultramicrotomed.	ON- LOAN

Sample name	Distribution	Description	Status
C0105-039_023_01	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in a grid case. TEM.	ON- LOAN
C0105-039_023_02	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in a grid case. TEM.	ON- LOAN
C0105-039_023_03	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in a grid case. TEM.	ON- LOAN
C0105-039_023_04	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in a grid case. TEM.	ON- LOAN
C0105-039_023_05	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in a grid case. TEM.	ON- LOAN
C0105-039_023_06	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in a grid case. TEM.	ON- LOAN
C0105-039_023_07	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in a grid case. TEM.	ON- LOAN
C0105-039_023_08	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in a grid case. TEM.	ON- LOAN
C0105-039_023_09	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in a grid case. TEM.	ON- LOAN
C0105-039_023_10	IA-Sand, AO2	Ultrathinsections on microgrids, Ultrathi sections on a grid prepared at U Hawaii. Stored in another grid case. Originally it was stored in A5 in the above casea. TEM.	ON- LOAN
C0105-039_024_04	IA-Sand	FIB section, FIB section prepared at U Hawaii. TEM	
C0105-040_000_00	IA-Sand	Sample stub, FE-SEM	
C0105-040_060_01	IA-Sand	FIB section, Na-rich particle.TEM	
C0105-040_060_02	IA-Sand	FIB section, Na-rich particle.TEM	
C0105-040_060_03	IA-Sand	FIB section, Na-rich particle.TEM	
C0105-040_060_04	IA-Sand	FIB section, Na-rich particle.TEM	
C0105-040_084_01	IA-Sand	FIB section, TEM	
C0105-041_000_00	IA-Sand	Sample stub, Allocated to Kobe U. FE-SEM	
C0105-042_000_00	IA-Sand, AO2	Sample stub, Allocated to Hiroshima U. FIB-SEM.	ON- LOAN
C0105-042_000_01	IA-Sand	FIB section, Due to unknown grain number, 000 was to the sample. TEM.	assigned
C0105-042_000_02	IA-Sand	FIB section, Due to unknown grain number, 000 was to the sample. TEM.	assigned
C0105-042_000_03	IA-Sand	FIB section, Due to unknown grain number, 000 was assigned to the sample. TEM. Stored with FIB 4. TEM.	
C0105-042_000_04	IA-Sand	FIB section, Due to unknown grain number, 000 was to the sample. TEM. Stored with FIB 3. TEM.	assigned
C0105-042_000_05	IA-Sand	FIB section, Due to unknown grain number, 000 was to the sample. TEM.	assigned

Sample name	Distribution	Description	Status
C0105-042 000 06	IA-Sand	FIB section, Due to unknown grain number, 000 was	s assigned
	In Y Sund	to the sample. TEM.	
C0105-043 001 00	IA-Sand,	Grain, XCT. All grains were attached to Ti	ON-
	AO2	needles.	LOAN
C0105-043_002_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
C0105 043 004 00	IA-Sand,	Grain, XCT. All grains were attached to Ti	ON-
	AO2	needles.	LOAN
C0105-043_005_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
C0105-043_006_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
C0105-043_008_00	IA-Sand	Grain, XCT. All grains were attached to Ti needles.	
C0105 042 000 00	IA-Sand,	Grain, XCT. All grains were attached to Ti	ON-
C0105-043_009_00	AO2	needles.	LOAN
C0105-044_000_00	IA-Sand	Sample stub, pressed into Indium	
C0105 045 000 00	IA Sand	Sample stub, Four grains were set using Pt depo. All	ocated to U
	IA-Salid	Lille. Two grains were lost duirng FIB-SEM at U Li	lle.
	IA-Sand	FIB section, Prepared at U Lille. The number on	ON-
C0105-045_001_01	AO2	the case is 045-G1. G2 is in the same case. Not-	LOAN
		analyzed.	Dorm
C0105-045 001 02	IA-Sand,		ON-
	AO2		LOAN
	IA Cand	FIB section, Prepared at U Lille. But it is not clear the correlation between the comple numbers on the	ON
C0105-045_004_01	IA-Salid,	case and the descriptions by Hugues G3 G4 Not	LOAN
	A02	analyzed	LUAN
		FIB section Prenared at U Lille But it is not clear	
	IA-Sand.	the correlation between the sample numbers on the	ON-
C0105-045_004_02	AO2	case and the descriptions by Hugues, G3, G4, Not-	LOAN
		analyzed.	
C0105-046 000 00	IA-Sand		
C0105-047 000 00	IA-Sand	Sample stub, FIB-SEM	
		Sample stub, Allocated to Harries but remained	
C0105-048_000_00	IA-Sand	unopen.	
C0105-049_000_00	IA-Sand	Sample stub, FIB-SEM.	
C0105-049_013_02	IA-Sand	FIB section on Au plate, AFM-IR using nanoIR3.	
C0105-049_067_01	IA-Sand	TEM	
C0106-02_Pellet18	IA-VOL, AO2	This pellet is still in its carrier, stored under N2.	ON- LOAN
C0106 00 1 ET710 A	IA-VOL,	Solution between Be and Al fraction from cation	
C0100-09_LE1/10_A	AO3	chromatograph	
C0106-09 IET710 B	IA-VOI	Solution before Be fraction from cation	
	1/1- V OL	chromatograph	
C0106-09_LET710_C	IA-VOL, AO3	Mn fraction from anion chromatograph	
C0106-09 LET710 D	IA-VOL,	Remaining solution after separation of A, B, and C	
	AO3	solutions	
C0106-10_LET711_A	IA-VOL, AO3	Solution between Be and Al fraction from cation chromatograph	
		· · · ·	

Sample name	Distribution	Description	Status
C0106-10 LET711 B	IA-VOL	Solution before Be fraction from cation	
		chromatograph	
C0106-10_LET711_C	IA-VOL, AO3	Mn fraction from anion chromatograph	
C0106-10_LET711_D	IA-VOL, AO3	Remaining solution after separation of A, B, and C solutions	
C0106-11 LET712 A	IA-VOL,	Solution between Be and Al fraction from cation	
	AO3	chromatograph	
C0106-11_LET712_B	IA-VOL	Solution before Be fraction from cation chromatograph	
C0106-11_LET712_C	IA-VOL, AO3	Mn fraction from anion chromatograph	
C0106-11_LET712_D	IA-VOL, AO3	Remaining solution after separation of A, B, and C solutions	
C0106-12	IA-VOL	powder (fragments), stored in glovebox	
C0106 12 J ET722 B		Solution before Be fraction from cation	
С0100-12_LE1/22_В	IA-VOL	chromatograph	
C0106-12_LET722_C	IA-VOL, AO3	Mn fraction from anion chromatograph	
C0106 12 LET722 D	IA-VOL,	Remaining solution after separation of A, B, and C	
C0100-12_LE1/22_D	AO3	solutions	
C0106-12_LET722_E	IA-VOL, AO3	CaF2 in a quartz vial	
C0107-01	IA-Stone,	Polished section SEM EPMA	ON-
	AO2		LOAN
C0107-10_IOM_residue	IA-IOM		
C0107-11_IOM_residue	IA-IOM		
C0107-12_IOM_residue	IA-IOM	Reflectance	
C0107-13_IOM_residue	IA-IOM	FTIR	
C0107-14_IOM_residue	IA-IOM	nanoSIMS	
C0107-15_IOM_residue	IA-IOM		
C0107-16_IOM_residue	IA-IOM		
C0107-18_IOM_residue	IA-IOM	IOM residue on glass slide	
C0107-19_IOM_residue	IA-IOM	IOM residue, isolates by HF/HCl treatment	
C0107-1_IOM_residue	IA-IOM		
C0107-1_intact	IA-IOM		
C0107-24_IOM_residue	IA-IOM	Epoxy stub	
C0107-25_IOM_residue	IA-IOM	TEM grid; box IOM slot C1	
C0107-26_IOM_residue	IA-IOM	TEM grid; box IOM slot C2	
C0107-28_IOM_residue	IA-IOM	TEM grid; box IOM slot C4	
C0107-29_IOM_residue	IA-IOM	IOM residue, isolates by HF/HCl treatment, Cu disk	
C0107-30_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), FTIR	
C0107-31_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), FTIR	
C0107-32_IOM_residue	IA-IOM	IOM residues (isolated by HF/HCl treatment), FTIR	
C0107-33_IOM_residue	IA-IOM	On nanoSIMS base, NanoSIMS	
C0107-34_IOM_residue	IA-IOM	on slide glass	
C0107-35_IOM_residue	IA-IOM	on slide glass	
C0107-39_IOM_residue	IA-IOM	FIB on STXM holder4 (Pos#4)	

Sample name	Distribution	Description	Status
C0107-5_IOM_residue	IA-IOM	Reflectance	
C0107-8_IOM_residue	IA-IOM	FTIR	
C0107-9_IOM_residue	IA-IOM		
C0107-C1001	IA-Chem	Fraction Pb, Solvent H2O	
C0107-C1002	IA-Chem	Fraction Fe, Solvent 4M HNO3	
C0107-C1003	IA-Chem	Fraction Ca, Solvent 10M HNO3	
C0107-C1004	IA-Chem	Fraction Cr, Solvent 5M HCl	
C0107-C1005	IA-Chem	Fraction K-Mg-Ni, Solvent 1M HNO3	
C0107-FG01	IA-Stone	particle, Not process	
C0107-FG018	IA-Stone	Particle carbon fiber, XCT, XRD	
C0107-FG06	IA-Stone		
C0107-FG07	IA-Stone		
C0107-FG08	IA-Stone		
C0107-FG09	IA-Stone		
C0107-FG10	IA-Stone		
C0107-FG12	IA-Stone		
C0107-FG14	IA-Stone		
C0107-FG15	IA-Stone		
C0107-FG20	IA-Stone		
C0107-FG21	IA-Stone	Particle carbon fiber, XRD	
C0107-FG22	IA-Stone	Particle carbon fiber, XRD	
C0107-FG23	IA-Stone	Particle carbon fiber, XRD	
C0107-FG28	IA-Stone	Particle carbon fiber, XRD	
C0107-FG29	IA-Stone	Particle carbon fiber, XRD	
C0107-FG30	IA-Stone	Particle carbon fiber, XRD	
C0107-FG32	IA-Stone	Particle carbon fiber, XRD	
C0107-FG33	IA-Stone	Particle carbon fiber, XRD	
C0107-FG34	IA-Stone	Particle carbon fiber, XRD	
C0107-FG35	IA-Stone	Particle carbon fiber, XRD	
C0107-FG36	IA-Stone	Particle carbon fiber, XRD	
C0107-FG38	IA-Stone	Particle carbon fiber, XRD	
C0107-FG39	IA-Stone	Particle carbon fiber, XRD	
C0107-FG40	IA-Stone		
C0107-FG41	IA-Stone		
C0107-FG42	IA-Stone		
C0107-FG43	IA-Stone		
C0107-FG44	IA-Stone		
C0107-FG45	IA-Stone		
C0107-FG46	IA-Stone		
C0107-FG48	IA-Stone		
C0107-FG49	IA-Stone		
C0107-FG51	IA-Stone		
C0107-FG52	IA-Stone		
C0107-FG54	IA-Stone		
C0107-FG55	IA-Stone		
C0107-FG56	IA-Stone		
C0107-FG57	IA-Stone		
C0107-FG58	IA-Stone		
C0107-FG59	IA-Stone		
C0107-FG60	IA-Stone		
C0107-FG61	IA-Stone		

Sample name	Distribution	Description	Status
C0107-FG62	IA-Stone		
C0107-FG63	IA-Stone		
C0107-FG64	IA-Stone		
C0107-FG65	IA-Stone		
C0107-FG66	IA-Stone		
C0107-FG67	IA-Stone		
C0107-FG68	IA-Stone		
C0107-FG69	IA-Stone		
C0107-FG70	IA-Stone		
C0107-FG71	IA-Stone		
C0107-FG72	IA-Stone		
C0107-FG73	IA-Stone		
C0107-FG74	IA-Stone		
C0107-FG75	IA-Stone		
C0107-FG76	IA-Stone		
C0107-FG77	IA-Stone		
С0107-Не 01 02	IA-Sand	FIB section, FE-SEM, FIB, TEM	
C0107-RBS02 001	IA-Stone		
C0107-RBS02 002	IA-Stone		
 C0107-RBS1 M1	IA-Stone	Potted butt, SEM	
C0107-RBS1 M10	IA-Stone	Potted butt, SEM	
C0107-RBS1 M10 TEM01	IA-Stone	Microtome, SEM	
C0107-RBS1 M11	IA-Stone	Potted butt, SEM	
C0107-RBS1 M1 TEM01	IA-Stone	Microtome, SEM	
C0107-RBS1 M2	IA-Stone	Potted butt, SEM	
C0107-RBS1 M2 TEM01	IA-Stone	slice, SEM	
C0107-RBS1 M3	IA-Stone	Potted butt, SEM	
C0107-RBS1 M3 TEM01	IA-Stone	Microtome, SEM	
C0107-RBS1 M3 TEM02	IA-Stone		
C0107-RBS1 M3 TEM03	IA-Stone		
C0107-RBS1 M4	IA-Stone	Potted butt, SEM	
C0107-RBS1 M4 TEM01	IA-Stone	Microtome, SEM	
C0107-RBS1 M5	IA-Stone	Potted butt, SEM	
C0107-RBS1 M5 TEM01	IA-Stone	Microtome, SEM	
C0107-RBS1 M5 TEM02	IA-Stone	, ,	
C0107-RBS1 M6	IA-Stone	Potted butt, SEM	
C0107-RBS1 M6 TEM01	IA-Stone	Microtome, SEM	
C0107-RBS1 M7	IA-Stone	Potted butt, SEM	
C0107-RBS1_M7_TEM01	IA-Stone	Microtome, SEM	
C0107-RBS1 M7 TEM02	IA-Stone		
C0107-RBS1 M8	IA-Stone	Potted butt, SEM	
C0107-RBS1_M8 TEM01	IA-Stone	Microtome, SEM	
C0107-RBS1 M8 TEM02	IA-Stone		
C0107-RBS1 M9	IA-Stone	Potted butt, SEM	
C0107-RBS1_M9 TEM01	IA-Stone	Microtome, SEM	
C0107-RBS1 M9 TEM02	IA-Stone		
C0107-Rubber_Stamp2	IA-Stone	Rubbler stamp	
C0107-Rubber_stamp1	IA-Stone	Rubbler stamp	
C0107-Rubber stamp3	IA-Stone	Rubbler stamp	
C0107 5001	IA SOM		COSUME
C010/-S001	IA-SOM		D

Sample name	Distribution	Description	Status
C0107-S002	IA-SOM	Particles remaining in a glass vial	
C0107-S003	IA-SOM, AO2	Dried on silicon plate after extraction by hexane	ON- LOAN
C0107-S004	IA-SOM, AO2	Dried on silicon plate after extraction by DCM	ON- LOAN
C0107-S005	IA-SOM, AO2	Dried on silicon plate after extraction by MeOH	ON- LOAN
C0107-S006	IA-SOM, AO2	Dried on silicon plate after extraction by water	ON- LOAN
C0107-powder01	IA-Stone	Mini petridish	
C0108-C1001	IA-Chem	Fraction Pb, Solvent H2O	
C0108-C1002	IA-Chem	Fraction Ti, Solvent 9M HCl-0.05M HF	
C0108-C1003	IA-Chem	Fraction Fe, Solvent 4M HNO3	
C0108-C1004	IA-Chem	Fraction Ca, Solvent 10M HNO3	
C0108-C1005	IA-Chem	Fraction Cr, Solvent 5M HCl	
C0108-C1006	IA-Chem	Fraction K-Mg-Ni, Solvent 1M HNO3	
C0100.08	IA-IOM,	Enormant on SEM atuh	ON-
0109-08	AO2	Fragment on SEM stud	LOAN
C0109-10_intact	IA-IOM	crushed, AFM-IR	
C0109-11	IA-IOM	Fragments on glass slide,	
C0109-12_intact	IA-IOM	FTIR, Raman, nanoSIMS	
C0109-14	IA-IOM	Fragment on glass slide,	
C0109-15_intact	IA-IOM	FTIR, Raman	
C0109-16_intact	IA-IOM	FTIR, Raman	
C0109-18_intact	IA-IOM	Au-embedding, FIB (UTokyo), STXM (PF) etc	
C0109-19	IA-IOM	Fragment on glass slide	
C0109-1 intact	IA-IOM	FTIR, Raman	
C0109-20 intact	IA-IOM	crushed, FTIR, Raman	
C0109-21 intact	IA-IOM	crushed, FTIR	
C0109-22_intact	IA-IOM	crushed, FTIR, Raman	
C0109-23 intact	IA-IOM	crushed, FTIR	
C0109-24 intact	IA-IOM	crushed analyzed by FTIR, Raman	
C0109-25 intact	IA-IOM	crushed, FTIR	
C0109-26 intact	IA-IOM	crushed, FTIR	
C0109-27 intact	IA-IOM	crushed, FTIR	
C0109-28_intact	IA-IOM	particle, FTIR, Raman	
C0109-29 intact	IA-IOM	particle, FTIR, Raman	
C0109-2_intact	IA-IOM, AO2	nanoSIMS, FIB, STXM	ON- LOAN
C0109-30 intact	IA-IOM	particle, FTIR, Raman	
C0109-31 intact	IA-IOM	crushed, FTIR	
C0109-32 intact	IA-IOM	crushed, FTIR	
C0109-33 intact	IA-IOM	crushed, FTIR	
C0109-34 intact	IA-IOM	particle, FTIR	
C0109-35	IA-IOM	Epoxy stub	
C0109-36	IA-IOM	Epoxy stub	
C0109-37	IA-IOM	Epoxy stub	
C0109-38	IA-IOM	TEM grid; box C0109 slot A1	
C0109-39	IA-IOM	Si chip in capsule	
C0109-3 intact	IA-IOM	nanoSIMS, FIB, STXM	
C0109-40	IA-IOM	TEM grid; box C0109 slot A2	

Sample name	Distribution	Description	Status
C0109-42	IA-IOM	TEM grid; box C0109 slot A3	
C0109-43	IA-IOM	TEM grid; box C0109 slot A4	
C0109-44	IA-IOM	Epoxy stub	
C0109-46	IA-IOM	TEM grid; box C0109 slot E1	
C0109-47	IA-IOM	TEM grid; box C0109 slot E2	
C0109-48	IA-IOM	TEM grid; box C0109 slot E3	
C0109-49	IA-IOM	Epoxy stub	
C0109-4_intact	IA-IOM	crushed, AFM-IR	
C0109-50	IA-IOM	TEM grid; box C0109 slot J1	
C0109-53	IA-IOM	Epoxy stub	
C0109-56	IA-IOM	TEM grid; box C0109 slot N2	
C0109-57	IA-IOM	TEM grid; box C0109 slot N3	
C0109-58	IA-IOM	Si chip in capsule	
C0109-59	IA-IOM	TEM grid; box C0109 slot N4	
C0109-5_intact	IA-IOM	FTIR, Raman, nanoSIMS	
C0109-61_intact	IA-IOM		
C0109-62_intact	IA-IOM		
C0109-64_intact	IA-IOM	For FIB, separated from C0109-17	
C0109-65_intact	IA-IOM	For FIB, separated from C0109-17	
C0109-66_intact	IA-IOM	On nanoSIMS base, NanoSIMS	
C0109-67_intact	IA-IOM	For FIB, separated from C0109-18	
C0109-68_intact	IA-IOM	For FIB, separated from C0109-18	
C0109-69_intact	IA-IOM	on slide glass, HF/HCl	
C0109-6_intact	IA-IOM	Reflectance	
C0109-70_intact	IA-IOM	on slide glass, HF/HCl	
C0109-71_intact	IA-IOM	on slide glass, HF/HCl	
C0109-72_intact	IA-IOM	on slide glass, HF/HCl	
C0109-73_intact	IA-IOM	on slide glass	
C0109-74_intact	IA-IOM	on slide glass	
C0109-75_intact	IA-IOM	on slide glass	
C0109-76_intact	IA-IOM	on slide glass	
C0109-77_intact	IA-IOM	on slide glass	
C0109-78_intact	IA-IOM	on slide glass	
C0109-81_intact	IA-IOM	FIB on STXM holder5 (Pos#2)	
C0109-82_intact	IA-IOM	FIB on STXM holder10 (Pos#4)	
C0109-83_intact	IA-IOM	FIB on STXM holder11 (Pos#6)	
C0109-9_intact	IA-IOM	FTIR, Raman, nanoSIMS	
C0195-01_PS	Ph2-Kochi	Polished ssection, carbon coat	
C0198-01_PS	Ph2-Kochi	Polished ssection, TOF-SIMS	
C0207-00	Ph2-Kochi	Fragments	
C0207-01_InP	Ph2-Kochi	Fragments, Indium pressed, Osmium coat, SXES- EPMA	
C0207-02_InP	Ph2-Kochi	Fragments, Indium pressed, nanoSIMS	
C0207-21	Ph2-Kochi	Fragments on carbon tape, FIB section extracted	
C0207-22_FIB	Ph2-Kochi	FIB section	
C0209-01	Ph2-Kochi	Fragment on carbon tape, gold coat	
C0209-23	Ph2-Kochi	Fragment on carbon tape, FIB section extracted	
C0209-25_FIB	Ph2-Kochi	FIB section	

### JAXA Special Publication JAXA-SP-23-007E

Hayabusa2 Asteroid Sample Catalog 2023

Edited and Published by:	Japan Aerospace Exploration Agency
	7-44-1 Jindaiji-higashimachi, Chofu-shi, Tokyo 182-8522 Japan
	URL: https://www.jaxa.jp/
Date of Issue:	January 29, 2024
Produced by:	Matsueda Printing Inc.

Unauthorized copying, replication and storage digital media of the contents of this publication, text and images are strictly prohibited. All Rights Reserved.

