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# Hayabusa Asteroid Sample Catalog 2022

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# Hayabusa-returned sample catalog 2022

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Here, we present the catalog of the picked-up particles from the sample catcher of Hayabusa until November 2022 (Table. 1).

## 1. Curatorial sample handling work

The published Itokawa particles on the database are 605 from room A, 404 from room B, 86 from room C (Rotational Cylinder), and 249 from room X representing mixtures of room A and room B due to the removal of a division plate between them. These numbers remained same for the past a year and half as the pick-up of the particle to the glass slide and subsequent initial description were suspended due to the limitation of activities by the COVID-19 pandemic and a series of preparations to receive the Hayabusa 2 samples. In the middle of 2021, we resumed the sample handling for Hayabusa returned samples (Itokawa), which consists of transferring the archived samples from the glass slide to another type of sample container (Fig. 1.). The latter was initially developed for Ryugu, Hayabusa2-returned samples to store a single particle without sharing several particles like the glass slide for the Itokawa samples. 299 samples were already transferred to the container specific to storing a single particle so far. The primary reason to use this container is to preserve the archived samples safely against unexpected movements derived from the natural disasters (e.g., earthquakes), and sample handling. The glass slide, that was previously used to store the Itokawa samples, has several concavities that can contain samples individually, and each concavity is divided by the engraved grooves without any cover. Thus, moving, shaking or dropping the glass slide during the sample

handling process have a risk of mixing samples, losing track of the sample IDs, or physically losing particles stored on the slide. Another advantage of utilizing the new container is that the container was designed to fit within a nitrogen-purged container for transferring the sample outside the clean chamber. This nitrogen-purged transferring container helps to distribute the samples for researchers without contamination or potentially store samples in another long-term storage at the curation facility in the future.

Transferring the sample from the glass slide to the single container has a risk of losing samples during the transferring process due to the difficulty of handling tiny samples (e.g., approx. 50  $\mu\text{m}$ ), however. 17 samples were unfortunately lost through this process. Despite this potential risk, using a single container for a single Itokawa grain has great advantages of preserving each Itokawa sample in a long term without mixing up of the samples, and sample IDs, and distributing the samples safely to the science community without contamination. Thus, we plan to transfer all the particles from the glass slide to the new container individually in one or two years.

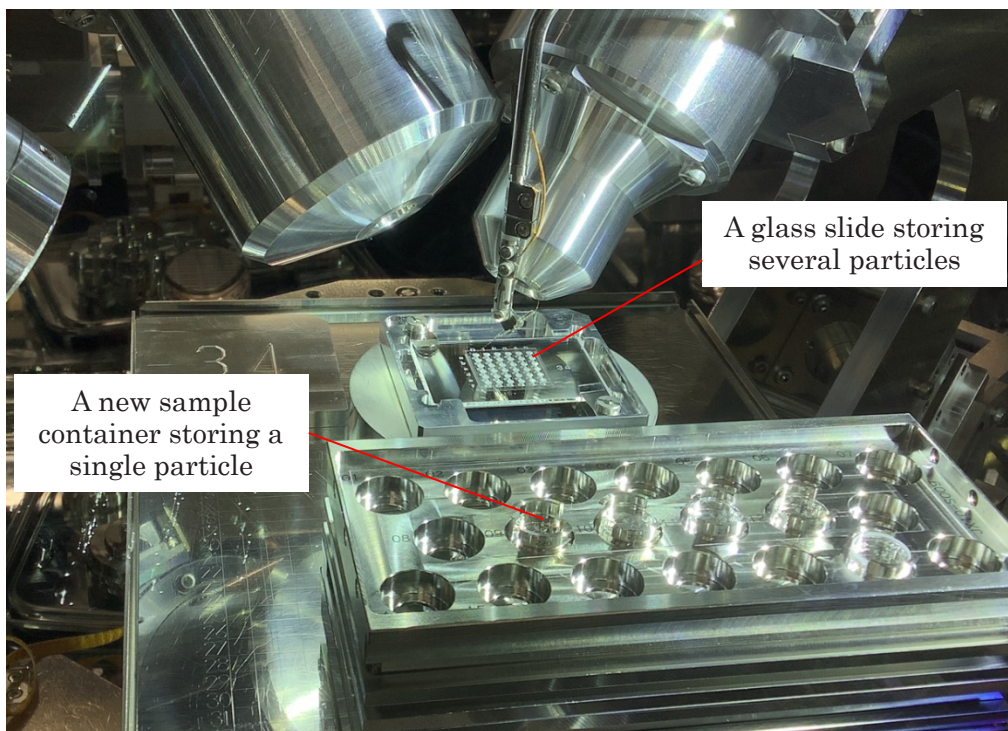


Fig. 1. Sample transferring process. Each particle on the glass slide was transferred to a new sample container individually using the electrostatic manipulator.

## 2. History of sample distribution and the international announcement of opportunity (AO)

Before the first international announcement of opportunity, 69 particles had been distributed for the preliminary examination (initial analysis), and 15 particles for the NASA examination. A summary of sample distributions to research communities via the AO, and to NASA is presented in Table 2.

### Statement for Data Availability:

We provide the catalog data of the Hayabusa samples in two formats (web interface, and data storage) as below:

Web interface at Astromaterials Science Research Group (ASRG) site;  
<https://curation.isas.jaxa.jp/curation/hayabusa/index.html>

Data storage at Data Archives and Transmission System (DARTS) site;  
<https://data.darts.isas.jaxa.jp/pub/curation/hayabusa/>

Table 1. Itokawa, Hayabusa-returned sample list

<b>Remarks</b>
<b>transfer</b> transfer history
<b>Analysis</b> Analytical methods applied to each particle
<b>Phase</b> Determined by SEM at Curation facility or determined by preliminary examinations (with [ ] ). Abbreviations ol: olivine, lpx: low calcium pyroxene, hpx: high calcium pyroxene, pl: plagioclase, fld: feldspar, chm: chromite, ap: apatite
<b>Status</b> SG##xx: name of the glass slide sample holder (##) and address on the glass slide (xx) at the curation center S##-xx: address of a sample container storage at the curation center. ## is Serial number of the storage, and xx is the position in the storage. glovebox2: Glove box storage at curation center N2-SP3: N2 desiccator storage at curation center DSLG: concavity glass slide PS : polished section PB : potted butt of TEM mold UTS : Ultra thin section UM : Ultramicrotome FIB : Focused Ion Beam CONSUMED: consumed during initial analysis (not available) BROKEN: broken into several pieces unexpectedly (not available) DIVIDED: sliced or divided in initial analysis (not available) (Others) provided to analysis (currently not available)
<b>label</b> PE : provided to preliminary examinations AO#_ : provided to International AO NASA# : provided to NASA AO CO : Samples allocated to JAXA for consortium study CU1 : Samples allocated to JAXA's research CU2 : Samples allocated to JAXA for opening to public CAT3 : provided to preliminary examinations for category 3 EXTRA : Extra particles unexpectedly found on sample holders RENAMED : renamed to RA or RB particle name ND : no data NI : not identified. The particle might be lost NOSEM : No SEM data for initial description
<b>Category</b> 1. particles showing only ferromagnesian silicate compositions 2. particles showing ferromagnesian silicate and other mineral such as metals, sulfides and oxides etc. 3. particles showing mainly carbon 4. particles possible artificial material compositions such as Al, quartz glass, stainless steel and etc.

Samples listed in gray shade rows of the table are currently not curated in the curation center.

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0003	Curation SG10e2	30	1	ol,hpx	-
RA-QD02-0004	Curation SG10d4	23	1	lpx,pl	-
RA-QD02-0007	LOST	50	4	Al	-
RA-QD02-0008	CONSUMED, pressed on indium plate	50	3	(C,O),(C,N,O),Al	PE
RA-QD02-0009	CONSUMED	70	1	[ lpx, ol, pl ]	PE, AO2_Noguchi
RA-QD02-0009-01	JAXA, FIB-UTS		1	-	-
RA-QD02-0010	CONSUMED	188	1	[ ol, pl, lpx, hpx, FeS, FeNi ]	PE,AO1_Kita,AO1_Nishiizumi,AO3_Jourdan
RA-QD02-0011	BROKEN	70	2	ol,lpx,FeS	-
RA-QD02-0011-01	Curation glovebox2, PS with Au coat, almost consumed		1	[ hpx,ol,pl]	PE
RA-QD02-0011-02	Curation glovebox2, PS		1	[ ol,pl,hpx,FeS,FeNi]	PE,AO3_Boonsue
RA-QD02-0012	NASA	100	3	CO,FeS	AO3_Chan
RA-QD02-0013	CONSUMED	91	2	[ ol, pl, hpx, lpx, FeNi ]	PE,AO1_Jourdan
RA-QD02-0014	Curation glovebox2, PS	131.2	1	[ ol, lpx, pl ]	PE,AO1_Kita,AO4_Trigo
RA-QD02-0015	CONSUMED	47	1	lpx	PE
RA-QD02-0016	Curation glovebox2, PS	63	1	[ ol, lpx, hpx, pl, FeS, FeNi ]	PE
RA-QD02-0017	ASU, PS	53	1	ol	PE,AO1_Kita,AO7_Bose
RA-QD02-0018	Curation SG07g5	80.4	4	Zn,Cl,C,O,N,Al,ol?	-
RA-QD02-0019	Physical Research lab., PS	77	1	[ ol, pl, FeS ]	PE, AO2_Fujiya, AO4_Marhas
RA-QD02-0020	LOST	50	1	lpx,pl	-
RA-QD02-0021	CONSUMED	45	1	[ lpx, hpx, FeS ]	PE
RA-QD02-0022	Curation glovebox2, PS	50	1	lpx, ol, FeS	PE
RA-QD02-0022-01_03	Curation glovebox2, UTS by UM, maybe consumed		1	-	PE,AO1_Noguchi
RA-QD02-0023	ASU, PS	163	2	[ ol, FeS ]	PE,AO1_Kita,AO1_Nishiizumi,AO4_Trigo,AO7_Bose
RA-QD02-0024	Open Univ, PS	82	2	[ ol, hpx, lpx, pl, FeS, FeNi ]	PE,AO1_Grady
RA-QD02-0024-01	Curation glovebox2, UTS by FIB		2	-	PE
RA-QD02-0025	BROKEN	50	1	pl	-
RA-QD02-0025-01	Tohoku Univ, PS	61	1	[ pl,hpx ]	PE, AO2_Gucsik
RA-QD02-0025-02	Tohoku Univ, PS with C-coat, almost consumed	61	1	[pl]	PE, AO2_Gucsik
RA-QD02-0026	LOST	70	1	lpx,chl	-
RA-QD02-0027	Curation glovebox2, PS with partially Au-coat	91	2	[ FeS, pl, lpx ]	PE
RA-QD02-0028	Curation glovebox2, PS	52	2	[ ol, lpx, FeS, FeNi ]	PE,AO3_Zolensky
RA-QD02-0029	LOST	40	2	ol,pl,lpx,FeS	-
RA-QD02-0030	CONSUMED	194	2	[ lpx, ol, pl, FeNi, hpx, FeS ]	PE,AO1_Kita,AO1_Jourdan
RA-QD02-0031	Curation glovebox2, PS	192	2	[ ol, pl, FeS, hpx or lpx, chl ]	PE, AO2_Terada
RA-QD02-0032	Curation glovebox2, PB with C-coat, almost consumed	47	1	[ ol, hpx, pl, lpx ]	PE
RA-QD02-0032-01_04	Univ. Lille, UTS by UM		1	-	PE, AO1_Leroux
RA-QD02-0032-05_06	Curation glovebox2, UTS by FIB		1	-	PE
RA-QD02-0032-07	Curation glovebox2, needle for TEM tomography by FIB		1	-	PE
RA-QD02-0033	Curation glovebox2, PS	68	2	[ ol,lpx,pl ]	PE,AO3_Terada
RA-QD02-0033-01_03	Curation glovebox2, UTS by UM		2	-	PE_Noguchi,AO1_Noguchi
RA-QD02-0034	NASA, PB with C-coat	56	1	[ ol, lpx, hpx, FeS ]	PE,AO3_Zolensky
RA-QD02-0034-01_04	Curation glovebox2, UTS by UM		1	-	PE, AO1_Noguchi
RA-QD02-0035	CONSUMED	68	2	ol,pl,FeS	PE, AO1_Busemann
RA-QD02-0035-01_03	Curation glovebox2, UTS by UM		2	-	PE,AO1_Noguchi
RA-QD02-0036	Physical Research Lab., PS, almost consumed	42	2	[ ol, pl ]	PE,AO1_Mikouchi,AO4_Marhas
RA-QD02-0037	LOST	60	3	(C,O),lpx,ol	-
RA-QD02-0038	Physical Research Lab., PS, partially consumed	63	2	[ lpx, ol, pl, FeS or chl ]	PE,AO1_Kita,AO4_Marhas
RA-QD02-0039	CONSUMED	59	1	[ ol, lpx, hpx, pl, FeS ]	PE, AO2_Busemann
RA-QD02-0040-01	LOST	30	3	CO,lpx	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0040-02	LOST	50	4	Al	-
RA-QD02-0041	Curation glovebox2, PS	95	1	[ ol, pl, hpx ]	PE, AO1_Mikouchi
RA-QD02-0041-01_03	Curation glovebox2, UTS by UM		1	-	PE
RA-QD02-0042	Physical Research Lab., PS	103	2	[ lpx, pl, ol, hpx, FeS, FeNi ]	PE, AO4_Marhas
RA-QD02-0042-01	Curation glovebox2, UTS by UM		2	-	PE, AO1_Zega
RA-QD02-0042-01_03	Curation glovebox2, UTS by UM		2	-	PE, AO1_Zega
RA-QD02-0042-02	Curation glovebox2, UTS by UM		2	-	PE, AO1_Zega
RA-QD02-0042-03	Curation glovebox2, UTS by UM		2	-	PE, AO1_Zega
RA-QD02-0043	Curation glovebox2, PS with large hole	96	1	[ ol, hpx, pl, FeS ]	PE
RA-QD02-0044	CONSUMED	50	1	ol,pl	PE
RA-QD02-0045	LOST	80	2	lpx,hpx,FeS,chl	-
RA-QD02-0046	LOST	100	4	Al	-
RA-QD02-0047	Curation glovebox2, PS	121	1	[ ol, lpx, hpx ]	PE, AO1_Kita, AO4_Trigo
RA-QD02-0048	Curation glovebox2, PS with Au coat, almost consumed	58	1	[ ol, hpx, pl, lpx, FeS ]	PE, AO3_Boonsue
RA-QD02-0048-01	Curation glovebox2, UTS by FIB		1	-	PE
RA-QD02-0049	BROKEN	180	2	ol,pl	PE
RA-QD02-0049-01	CONSUMED		2	-	PE, AO1_Busemann
RA-QD02-0049-02	JAXA N2-SP4 on glass fiber with crystal bond		2	[ ol, lpx, pl, FeS ]	PE, AO1_Mikouchi
RA-QD02-0049-04	CONSUMED		2	-	PE, AO1_Busemann
RA-QD02-0049-05	JAXA N2-SP2 DSLG-05		2	-	PE
RA-QD02-0050	Curation glovebox2, PB with C-coat, almost consumed	71	1	[ ol, hpx, pl ]	PE
RA-QD02-0050-01_05	Curation glovebox2, UTS by UM		1	-	PE
RA-QD02-0050-06_07	Curation glovebox2, UTS by FIB		1	-	PE
RA-QD02-0051	CONSUMED	63	2	lpx,ol,chl	PE, AO1_Busemann
RA-QD02-0051-01_05	Curation glovebox2, UTS by UM		2	-	PE
RA-QD02-0052	LOST	40	1	[ cal ]	-
RA-QD02-0053	CONSUMED	45	2	ol,FeS	PE
RA-QD02-0054	Curation glovebox2, PS	32	1	[ ol, FeS ]	PE
RA-QD02-0054-01_05	Curation glovebox2, UTS by UM		1	-	PE, AO1_Noguchi
RA-QD02-0055	Curation glovebox2, PS, almost consumed	51	1	pl,hpx	PE, AO1_Kita
RA-QD02-0056	Curation glovebox2, PS	55	1	lpx,ol,pl	PE, AO2_Terada
RA-QD02-0056-01_03	Curation glovebox2, UTS by UM		1	-	PE, AO1_Noguchi
RA-QD02-0057	Curation glovebox2, PS	50	1	[ lpx ]	PE, AO4_Bose
RA-QD02-0058	Curation glovebox2, PS	54	2	[ ol, pl, hpx, lpx, FeS ]	PE, AO4_Bose
RA-QD02-0059	LOST	40	1	hpx,pl	-
RA-QD02-0060	Curation glovebox2, PS with Au coat	54	1	[ ol, lpx(cpx), pl, hpx ]	PE, AO3_Zolensky
RA-QD02-0060-01_02	JAXA, UTS by FIB		1	-	PE, AO1_Noguchi
RA-QD02-0061	Curation glovebox2, PS	58	2	[ lpx, ol, pl, FeS, FeNi ]	PE, AO4_Bose
RA-QD02-0062-01	Curation glovebox2, PS	35	1	[ ol, lpx ]	PE, AO4_Bose
RA-QD02-0062-02	CONSUMED	21	1	lpx	PE
RA-QD02-0063	Curation glovebox2, PS with C-coat, almost consumed	69	1	[ lpx, ol, pl, hpx, FeS ]	PE
RA-QD02-0064	Kyoto Univ	65	1	ol	PE
RA-QD02-0065	CONSUMED	82	1	ol	PE
RA-QD02-0066	Curation glovebox2, PS	64	1	[ ol ]	PE, AO2_Fujiya, AO4_Bose
RA-QD02-0067	Curation glovebox2, PS	50	1	[ ol, pl ]	PE
RA-QD02-0068	CONSUMED	95	1	[ ol, pl, hpx, FeS, lpx, FeNi ]	PE, AO2_Busemann
RA-QD02-0070	Tohoku Univ	69	1	hpx,lpx,pl	AO2_Nakamura
RA-QD02-0071	Curation SG13c4	33	1	lpx	-
RA-QD02-0076-02	Curation SG10d5	28	1	ol	-



Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0078	NASA	100	3	CO,Cl,CFO,Mg	AO3_Chan
RA-QD02-0079	ASU	50	1	hpx	AO7_Bose
RA-QD02-0081	Curation SG07b6	50	4	Al,CFO	-
RA-QD02-0083	Curation SG07b5	40	4	Al,CO	-
RA-QD02-0084	NASA	149	2	ol,FeS	NASA2
RA-QD02-0088	US Naval Research Lab.	49	2	ol,Fe	AO3_Stroud
RA-QD02-0089	Kyushu Univ.	84	2	ol,lpx,FeS	AO3_Noguchi-1
RA-QD02-0090	LOST	85	2	ol,pl,FeS	-
RA-QD02-0091	Curation SG05c0	30	3	CO,Si,Cl	-
RA-QD02-0092	LOST	148	1	ol	RENAMED
RA-QD02-0093	DIVIDED	99	1	ol,pl,chl	PE
RA-QD02-0093-02_05	Curation glovebox2, polished slab with Au coat		1	ol,pl	PE
RA-QD02-0094	Sokendai	71	2	ol,pl,FeS	AO2_Komatsu
RA-QD02-0095	DIVIDED	71	1	hpx,pl,chl	PE
RA-QD02-0095-01_03	Curation glovebox2, polished slab with Au coat		1	hpx,pl	PE
RA-QD02-0096	LOST	68	1	ol	-
RA-QD02-0097	CONSUMED	112	2	ol,pl,chl	AO4_Park
RA-QD02-0098	LOST	85	1	lpx,Fe	RENAMED
RA-QD02-0099	LOST	62	1	ol,lpx	RENAMED
RA-QD02-0100	Curation glovebox2, PS	32	1	pl	AO1_Mikouchi
RA-QD02-0103	CONSUMED	188	2	ol,pl,FeS	AO4_Park
RA-QD02-0104	LOST	120	4	Al	RENAMED
RA-QD02-0107	LOST	75	1	ol,pl	-
RA-QD02-0108	Kyushu Univ.	61	2	ol,pl,FeS	AO3_Noguchi-1
RA-QD02-0109	Curation S7-139	50	1	ol,pl,Al	-
RA-QD02-0110	LOST	71	2	ol,pl,FeS	RENAMED
RA-QD02-0111	LOST	40	1	hpx	-
RA-QD02-0112	LOST	70	1	pl	-
RA-QD02-0113	LOST	70	4	FeNiCr,Al	-
RA-QD02-0114	US Naval Research Lab.	61	2	hpx,ol,pl,FeS	AO3_Stroud
RA-QD02-0115	DIVIDED	63	2	ol,FeS	AO1_Langenhorst
RA-QD02-0115-01	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0115-02	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0115-03	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0115-04	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0115-05	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0115-06	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0115-07	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0115-08	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0116	Curation glovebox2, particle with C-coat on the Mo plate	56	1	lpx,FeS	PE
RA-QD02-0117	LOST	100	1	ol,FeNi,FeS	RENAMED
RA-QD02-0118	DIVIDED	60	1	lpx	PE
RA-QD02-0118-01_03	Curation glovebox2, slab with C-coat		1	lpx	PE
RA-QD02-0119	Curation S7-140	37	4	SiO	-
RA-QD02-0120	Curation glovebox2, large FIB hole, pressed on Au plate	26	3	CO,Fe,Cr	PE
RA-QD02-0120-01_04	Curation glovebox2,UTSs by FIB		3	[C,N,O,CaCO3]	PE
RA-QD02-0121	DIVIDED	52	1	ol,lpx	PE
RA-QD02-0121-01_03	Curation glovebox2, slab with C-coat		1	ol,lpx	PE
RA-QD02-0122	Curation S8-141	58	4	SiO	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0123	LOST	20	1	hpx	-
RA-QD02-0124	NASA	57	1	ol,pl	NASA
RA-QD02-0125	Curation glovebox2, PB with C-coat	40	2	ol,FeS	AO1_Keller
RA-QD02-0125-01_07	Curation glovebox2, UTS by UM		2	-	AO1_Keller
RA-QD02-0125-08	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0125-09	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0125-10	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0125-11	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0126-01	NASA	41	2	lpx,FeS	NASA
RA-QD02-0126-02	BROKEN	25	2	lpx,ol,FeS	AO2_Cipriani
RA-QD02-0126-02-01	ESA ESTEC		2	-	AO2_Cipriani
RA-QD02-0126-02-02	ESA ESTEC		2	-	AO2_Cipriani
RA-QD02-0126-02-03	ESA ESTEC		2	-	AO2_Cipriani
RA-QD02-0126-03	Curation S8-142	9	2	ol,hpx,Fe	-
RA-QD02-0127	ASU,PS	60	1	lpx	AO2_Komatsu,AO3_Zolensky,AO7_Bose
RA-QD02-0128	Univ. Hawaii	38	1	hpx	AO6_Ishii
RA-QD02-0129	Curation SG05a0	37	1	pl,NaCl	-
RA-QD02-0130	NASA	45	1	lpx,FeS	NASA
RA-QD02-0131	Tohoku UNIV	54	1	ol,pl	AO2_Nakamura
RA-QD02-0132	LOST	53	4	Fe,Cr	-
RA-QD02-0133-01	Curation glovebox2, PS	56	1	ol,pl	AO1_Mikouchi
RA-QD02-0133-02	LOST	9	1	pl	-
RA-QD02-0134	Curation S8-143	21	3	KCl	-
RA-QD02-0135	LOST	52	1	ol,pl	RENAMED
RA-QD02-0136-01	AuMU	324	2	hpx,lpx,ol,pl,FeS	CO
RA-QD02-0136-02	Curation SG03g5	13	1	hpx	-
RA-QD02-0136-03	LOST	8	1	hpx,pl	AO2_Cipriani
RA-QD02-0136-07	Curation S8-148	22	1	hpx	-
RA-QD02-0136-13	Curation SG03h7	8	1	ol	-
RA-QD02-0136-14	ESA ESTEC	12	1	ol,pl	AO2_Cipriani
RA-QD02-0136-16	Curation S8-150	8	1	pl,ol	-
RA-QD02-0136-18	Curation S8-149	14	1	lpx,K-flid	-
RA-QD02-0137	NASA	22	1	ol,lpx,pl	NASA
RA-QD02-0138	Curation glovebox2, PS	54	1	ol,pl	AO1_Mikouchi
RA-QD02-0139	LOST	40	1	ol,lpx	RENAMED
RA-QD02-0140	LOST	64	1	ol,pl	RENAMED
RA-QD02-0141	LOST	32	1	lpx,FeS	RENAMED
RA-QD02-0142	LOST	42	2	ol,pl,FeS	NASA
RA-QD02-0143	NASA	52	1	lpx,ol	NASA
RA-QD02-0144	CONSUMED	49	1	ol	AO1_Nagao
RA-QD02-0145	LOST	55	1	ol,lpx,hpx,pl	RENAMED
RA-QD02-0146	LOST	39	1	ol	RENAMED
RA-QD02-0147	LOST	62	1	ol,lpx,pl,K-flid,FeS	NASA
RA-QD02-0148	Kirkclareli Univ.	121	2	ol,chm	AO8_Yesiltas
RA-QD02-0149	CONSUMED	53	1	ol	AO3_Yabuta
RA-QD02-0150	Curation S8-144	31	1	ol	-
RA-QD02-0151	NASA	92	1	ol,pl	NASA
RA-QD02-0152	Curation glovebox2,UTS by FIB	55	1	ol,hpx	AO2_Noguchi
RA-QD02-0153	Curation SG07a6	50	4	Al	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0155	NASA	44	1	lpx	NASA
RA-QD02-0156	Curation glovebox2, attached to carbon fiber using acetone-soluble bond	37	1	ol,pl	AO1_Nakamura,AO4_Brunetto
RA-QD02-0157	NASA	44	2	pl,FeS	AO3_Keller
RA-QD02-0158	CONSUMED	66	1	ol	AO1_Busemann
RA-QD02-0159	LOST	35	1	ol	-
RA-QD02-0160	CONSUMED	39	1	ol	AO1_Nagao
RA-QD02-0161	Curation S1-1	43	1	ol	-
RA-QD02-0162	Open Univ	62	1	lpx,ol	AO1_Grady
RA-QD02-0163	IPAG-PLANETO	27	1	hpx,ol,Al	AO1_England, AO1_Fueri
RA-QD02-0164	CONSUMED	47	2	lpx,hpx,FeNi	AO4_Langenhorst
RA-QD02-0165	Curation glovebox2, attached to carbon fiber using acetone-soluble bond	26	1	ol	AO1_Tsuchiyama
RA-QD02-0166	Curation SG07a7	54	4	Al	-
RA-QD02-0167	CONSUMED	55	1	ol	AO1_Fujiya
RA-QD02-0168-01	Curation S1-2	39	1	ol,pl	-
RA-QD02-0168-02	Curation S1-3	27	1	ol	-
RA-QD02-0169	CONSUMED	52	1	ol	AO2_Yurimoto
RA-QD02-0170	Curation glovebox2, UTS by FIB	40	1	ol	AO2_Noguchi
RA-QD02-0171	CONSUMED	62	2	ol,hpx,FeNi	AO3_Noguchi-1
RA-QD02-0172	Curation SG07a8	35	4	SiO	-
RA-QD02-0173	Curation S1-4	62	1	lpx	-
RA-QD02-0174	CRPG-CNRS	55	1	ol	AO1_Fueri
RA-QD02-0175	LOST	42	1	pl,lpx	-
RA-QD02-0176	CONSUMED	33	1	ol,lpx,hpx	AO1_Nakamura
RA-QD02-0177	BROKEN	35	1	ol	-
RA-QD02-0178	Curation glovebox2, mounted on Au coated carbon tape	35	1	ol	AO2_Yurimoto
RA-QD02-0179	Curation glovebox2, PS	55	1	ol,pl	AO1_Mikouchi
RA-QD02-0180	Curation glovebox2, large FIB hole, pressed on In disk	55	3	CO,KCl,NaCl	PE
RA-QD02-0180-01_03	Curation glovebox2,UTSs by FIB		3	[C,N,O,NaCl,KCl]	PE
RA-QD02-0181	Kyushu Univ.	55	3	CNO,NaCl,KCl	AO4_Naraoka
RA-QD02-0182	Curation SG05b7	46	3	CNO,NaCl,KCl	-
RA-QD02-0183	Curation SG05b4	38	3	CNO,KCl,NaCl	-
RA-QD02-0184	JAXA	127	2	ol,pl,FeNi	CU1_Yada
RA-QD02-0185	NMNS	57	1	ol	CU2
RA-QD02-0186	LOST	127	2	ol,chl,ap	CO
RA-QD02-0187	CONSUMED	62	1	ol	AO1_Busemann
RA-QD02-0188	CONSUMED	182	2	ol,FeNi,FeS	AO2_Nishiizumi
RA-QD02-0189	Curation glovebox2	54	2	ol,pl,FeS,FeNi	CU1_Karouji
RA-QD02-0191	JAXA ICF70-V004-KA04	60	1	ol	CU2
RA-QD02-0192	NASA	47	2	ol,pl,hpx,FeS	NASA
RA-QD02-0193	NASA	51	1	ol,hpx,pl	NASA
RA-QD02-0194	CONSUMED	125	2	ol,FeS	AO2_Busemann
RA-QD02-0195	NASA	85	2	ol,FeS	NASA2
RA-QD02-0196	ASU, PS	73	1	ol	AO1_Kita,AO7_Bose
RA-QD02-0196-01_02	Curation glovebox2, UTS by UM		1	-	AO1_Kita
RA-QD02-0197	CONSUMED	62	1	ol,pl	AO1_Busemann
RA-QD02-0198	LOST	70	2	ol	CU1_Uesugi
RA-QD02-0199	CONSUMED	145	2	ol,pl,chl	AO2_Park
RA-QD02-0200	Curation glovebox2	82	2	ol,FeNi,pl	CU1_Karouji
RA-QD02-0201	NASA	59	1	ol,hpx	NASA

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0202-01	NASA	59	1	ol,pl	NASA
RA-QD02-0202-02	Curation S2-31	25	1	ol,pl	-
RA-QD02-0203	JAXA N2-SP3	46	1	ol,pl	CU1_Uesugi
RA-QD02-0204	Tohoku Univ	87	1	lpx,pl,K-fld	AO2_Nakamura
RA-QD02-0205	Univ. Jena	55	1	lpx,hpx	AO4_Langenhorst
RA-QD02-0206	Curation S2-29	25	1	ol,lpx	-
RA-QD02-0207	LOST	54	1	ol,pl	-
RA-QD02-0208-01	Curation glovebox2, attached to carbon fiber using acetone-soluble bond	31	2	ol,(Ca,Cl)	AO1_Nakamura
RA-QD02-0208-02	Curation glovebox2, attached to carbon fiber using acetone-soluble bond		2	ol,(Ca,Cl)	AO1_Nakamura
RA-QD02-0209	CONSUMED	41	1	ol	AO1_Fujiya
RA-QD02-0210	Curation S2-32	37	2	ol,(Mg,Ca,Na)	-
RA-QD02-0211	Curation glovebox2, PB with C-coat	47	2	ol,FeS	AO1_Keller
RA-QD02-0211-01_09	Curation glovebox2, UTS by UM		2	-	AO1_Keller
RA-QD02-0211-10	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0211-11	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0211-12	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0211-13	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0211-14	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0211-15	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0211-16	Curation glovebox2, UTS by FIB		2	-	AO1_Keller
RA-QD02-0212	Curation SG07a9	58	4	SiO	-
RA-QD02-0213	CRPG-CNRS	58	1	ol	AO1_Fueri
RA-QD02-0214	Curation glovebox2, attached to carbon fiber using acetone-soluble bond	35	2	hpx,FeS	AO1_Nakamura,AO4_Brunetto
RA-QD02-0215	NASA	32	1	ol	NASA2
RA-QD02-0216	NASA	39	1	ol,Al	NASA
RA-QD02-0217	Curation SG07b0	50	4	Al,CFO	-
RA-QD02-0218	Curation SG07b1	57	4	Al	-
RA-QD02-0219	Curation S2-33	42	1	ol	-
RA-QD02-0220	Curation SG07c2	67	4	Al	-
RA-QD02-0221	Curation SG10b3	22	1	hpx	-
RA-QD02-0222	Curation SG05b9	121	3	(C,O),lpx	-
RA-QD02-0223	Hokkaido Univ., attached to carbon fiber using acetone-soluble bond	51	1	lpx,Fe	AO1_Tsuchiyama,AO4_Brunetto,AO8_Bajo
RA-QD02-0224	LOST	35	1	ol	-
RA-QD02-0225	Curation SG07c3	42	4	Al	-
RA-QD02-0226	Curation SG10a1	40	1	ol	-
RA-QD02-0227	Curation SG07b2	62	4	Al	-
RA-QD02-0228	Curation SG10a3	33	2	hpx,ol,pl,(Mg,Na,Ca)	-
RA-QD02-0229	Curation SG10a4	20	1	pl,ol	-
RA-QD02-0231	LOST	30	1	ol,pl	-
RA-QD02-0232	Hokkaido Univ., attached to carbon fiber using acetone-soluble bond	36	1	pl,lpx	AO1_Nakamura,AO4_Brunetto,AO8_Bajo
RA-QD02-0233	Curation SG07b3	19	4	Al	-
RA-QD02-0234	Curation S2-35	37	1	ol,lpx	-
RA-QD02-0235	CONSUMED	79	2	ol,pl,FeS	AO2_Busemann
RA-QD02-0236	JAXA	60	1	lpx,ol	CU1_Yada
RA-QD02-0237	Curation SG13a2	42	1	lpx,hpx	-
RA-QD02-0238	Curation SG13a3	56	1	ol,pl	-
RA-QD02-0239	US Naval Research Lab.	59	2	lpx,FeS	AO3_Stroud
RA-QD02-0240	CONSUMED	66	1	ol,Al	AO3_Noguchi-1
RA-QD02-0241	CONSUMED	96	2	lpx,FeS,Fe	AO2_Busemann

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RA-QD02-0242	Tohoku Univ	102	1	ol,pl	AO2_Nakamura
RA-QD02-0243	JAXA	70	2	ol,lpx,FeS	AO2_Noguchi
RA-QD02-0244	Curation glovebox2, UTS by FIB	60	2	ol,lpx,FeS	AO2_Noguchi
RA-QD02-0245	container-K006	42	2	FeS,ol,lpx	CO,CU2
RA-QD02-0246-01	Curation SG13e3	26	1	ol	-
RA-QD02-0246-02	Tohoku Univ	26	1	pl	AO2_Gucsik
RA-QD02-0247	CONSUMED	59	1	lpx,K-fld	AO2_Nakamura
RA-QD02-0248	NASA	150	2	ol,hpx,pl,FeS	NASA2
RA-QD02-0249	Curation SG10b5	25	1	ol	-
RA-QD02-0250	Curation glovebox2, embedded in indium with Au coat	76.5	1	lpx	AO5_Liu
RA-QD02-0251	Curation SG10b0	34.5	1	ol,pl,hpx	-
RA-QD02-0252	Curation SG10b4	29.9	1	ol,lpx	-
RA-QD02-0253	IPAG	33	1	ol	AO3_Bonal
RA-QD02-0254-01	Curation SG10c1	55	1	lpx	-
RA-QD02-0254-02	Curation SG10e3	18	1	lpx	-
RA-QD02-0255	Curation SG07c1	186	4	Al	-
RA-QD02-0256	LOST	38	1	ol	AO2_Noguchi
RA-QD02-0257	JAXA	44.2	2	ol,pl,FeS	AO3_Noguchi-1
RA-QD02-0258	Curation SG10d1	29.5	1	ol,hpx	-
RA-QD02-0259	CONSUMED	72.4	1	pl,ol	AO3_Yabuta
RA-QD02-0260	Curation SG10c2	39.1	1	ol,hpx	-
RA-QD02-0261	Curation SG10c3	22.9	1	lpx	-
RA-QD02-0262	Curation SG10d0	36.1	1	ol,lpx	-
RA-QD02-0263	Curation SG10d2	31.6	1	hpx	-
RA-QD02-0264	Curation SG10d3	28.3	1	ol	-
RA-QD02-0265	DIVIDED	26	2	[hpx,pl,ol,FeS]	CU1_Yakame, CU1_Uesugi, EXTRA
RA-QD02-0265-01	Curation glovebox2		2	-	AO1_Langenhorst
RA-QD02-0265-02	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0265-03	Curation glovebox2, UTS by FIB		2	-	AO1_Langenhorst
RA-QD02-0271	Kyushu Univ.	169	2	ol,pl,FeNi	AO4_Noguchi
RA-QD02-0272	Hokkaido Univ.	149	2	ol,lpx,hpx,FeS	AO8_Bajo
RA-QD02-0273	Tohoku Univ.	228	1	ol,hpx,K-fld	AO7_Jourdan
RA-QD02-0274	Kyushu Univ.	179	1	hpx,ol,lpx,pl	AO4_Noguchi
RA-QD02-0275	Kyushu Univ.	140	1	ol,Al	CU1_Matsumoto, AO6_Matsumoto-2
RA-QD02-0276	Curation S13-246	117	2	ol,hpx,ap,lpx,pl,FeS	-
RA-QD02-0277	Kyushu Univ.	217	2	hpx,lpx,ol,pl,FeS,chl,AlF	AO6_Matsumoto-2
RA-QD02-0278	Univ. Glasgow	94.4	1	ol	AO5_Daly
RA-QD02-0279	Univ. Glasgow	164	1	ol,pl	AO5_Daly
RA-QD02-0280	Curation S13-247	88.9	2	ol,FeS	-
RA-QD02-0281	Curation S13-248	88.5	2	ol,chl	-
RA-QD02-0282	Kyushu Univ. UTS by FIB	243	2	ol,chl	CU1_Matsumoto
RA-QD02-0283	Kyushu Univ.	185	1	ol	CU1_Matsumoto, AO6_Matsumoto-2
RA-QD02-0284	Curation S13-249	106	1	ol,hpx	-
RA-QD02-0285	Kyushu Univ.	141	2	ol,chl	AO4_Noguchi
RA-QD02-0286	Kyushu Univ., UTS by FIB	200	2	pl,ol,hpx,FeS	CU1_Matsumoto
RA-QD02-0287	Kyushu Univ.	121	1	ol,hpx,pl	AO4_Noguchi
RA-QD02-0288	CONSUMED	169	1	hpx,pl,lpx	AO3_Jourdan
RA-QD02-0289	CONSUMED	172	1	ol,hpx,pl	AO2_Nishiizumi
RA-QD02-0290	Curation S13-251	57.3	2	pl,ol,FeNi	-

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RA-QD02-0291	CONSUMED	96	1	ol	AO5_Liu
RA-QD02-0292	Kyushu Univ. UTS by FIB	79.9	2	ol,pl,lpx,FeS	CU1_Matsumoto
RA-QD02-0293	Curation SG07g3	104	4	Al	-
RA-QD02-0294	Curation SG10e4	30.9	1	ol	-
RA-QD02-0295	Curation SG10e5	40.6	1	ol	-
RA-QD02-0296	Curation S14-266	78.9	2	pl,FeS	-
RA-QD02-0297	Curation S13-252	115	2	ol,FeNi,chl	-
RA-QD02-0298	Curation SG07g4	63.9	4	Al	-
RA-QD02-0299	Kyushu Univ.	119	2	lpx,ol,chl	AO4_Noguchi
RA-QD02-0300	Tohoku Univ.	190	2	ol,lpx,pl,chl,hpx	AO7_Jourdan
RA-QD02-0301	Curation SG43f5	255	2	FeS,pl,ol	-
RA-QD02-0302	Curation S13-253	129	2	FeS,lpx	-
RA-QD02-0303	Curation S13-254	107	2	ol,pl,chl	-
RA-QD02-0304	Curation S13-255	98.3	2	lpx,FeS	-
RA-QD02-0305	Curation S14-272	270	1	ol	-
RA-QD02-0306	Tohoku Univ.	160	2	pl,ol,lpx,chl	AO7_Jourdan
RA-QD02-0307	Hokkaido Univ.	100	2	ol,lpx,Fe	AO8_Bajo
RA-QD02-0308	Kirkklareli Univ.	102	1	lpx,ol,pl	AO8_Yesiltas
RA-QD02-0309	Curation S14-276	49.3	1	lpx,pl	-
RA-QD02-0310	ASU	127	2	ol,pl,FeS	AO5_Schrader
RA-QD02-0311	Tohoku Univ.	108	2	ol,lpx,pl,K-flt,Fe	AO7_Jourdan
RA-QD02-0312	Curation SG15a0	126	1	ol,pl	-
RA-QD02-0313	Curation SG15a1	50.6	1	ol,pl	-
RA-QD02-0314	CONSUMED	71.6	1	ol	AO5_Liu
RA-QD02-0315	Curation SG15a3	116	1	ol,pl,lpx	-
RA-QD02-0316	ASU	117	2	ol,chl,Al	AO7_Davidson
RA-QD02-0317	Curation SG15a5	116	1	ol,pl	-
RA-QD02-0318	Curation SG05g8	48.4	3	C,Fe,Si,Al,Mg	-
RA-QD02-0319	Curation SG15b0	61.9	1	ol,lpx	-
RA-QD02-0325	Kyushu Univ.	182	2	ol,pl,FeS,lpx	CU1_Matsumoto, AO6_Matsumoto-3
RA-QD02-0326	Curation SG15b2	63.4	1	ol,pl,hpx	-
RA-QD02-0327	Curation SG15b3	88.3	1	ol	-
RA-QD02-0328	Curation SG15b4	51.7	1	lpx,pl	-
RA-QD02-0329	Curation SG15b5	65.5	1	ol	-
RA-QD02-0330	Curation SG15c0	46.1	1	ol	-
RA-QD02-0331	Curation SG15c2	157	2	FeS,pl,lpx,ol,SiO	-
RA-QD02-0332	Univ. Hawaii	47.9	1	ol	AO6_Ishii
RA-QD02-0333	Curation SG15c4	34.4	1	pl	-
RA-QD02-0334	Curation SG15c5	88.2	1	lpx,ol	-
RA-QD02-0335	Curation S13-256	21.6	1	lpx,ol,K-flt	-
RA-QD02-0336	Curation S13-257	48.2	1	ol,lpx	-
RA-QD02-0337	Curation S13-258	38.1	1	ol	-
RA-QD02-0338	Curation S13-259	28.9	1	lpx,pl	-
RA-QD02-0339	Curation S13-260	37	2	ol,hpx,FeS	-
RA-QD02-0340	Curation S14-269	28.4	1	ol	-
RA-QD02-0341	Curation S14-278	34.5	1	ol,pl	-
RA-QD02-0342	Curation SG14c4	31.6	2	ol,FeS,Al	-
RA-QD02-0343	Curation S14-270	40	1	lpx,ol	-
RA-QD02-0344	Curation S14-271	28.3	1	lpx,ol	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0345	Curation S14-273	26.8	1	ol	-
RA-QD02-0346	Curation S14-274	20.3	1	lpx,pl	-
RA-QD02-0347	Curation S14-275	27.4	1	ol,pl	-
RA-QD02-0348	Curation SG15d2	24.2	2	pl,ol,chl	-
RA-QD02-0349	Curation SG15a2	23.9	1	lpx,pl,K-flt	-
RA-QD02-0350	Curation SG15b1	16.9	1	ol	-
RA-QD02-0351	Curation SG15c3	22.8	1	lpx,ol	-
RA-QD02-0352	Curation SG15d3	52.9	1	lpx,ol,hpx	-
RA-QD02-0353	Curation SG15d4	24.7	1	ol	-
RA-QD02-0354	Curation SG15d5	47.1	1	ol,pl	-
RA-QD02-0355	Curation SG15e0	28.8	1	hpx,lpx,pl	-
RA-QD02-0356	Curation SG15e1	37.6	2	ol,FeS	-
RA-QD02-0357	Curation SG15e2	58.8	1	ol,Pt	-
RA-QD02-0358	Curation SG15e3	47.3	2	ol,lpx,FeS	-
RA-QD02-0359	Curation SG15e4	34.5	2	ol,lpx,chl	-
RA-QD02-0360	Curation SG15e5	32.7	1	lpx,ol	-
RA-QD02-0361	Curation SG15f0	35	2	ol,FeS	-
RA-QD02-0362	Curation SG15f1	41	1	ol,Al	-
RA-QD02-0363	Curation SG15f2	45.1	2	lpx,Fe	-
RA-QD02-0364	Curation SG15f3	41.2	1	ol	-
RA-QD02-0365	Curation SG15f4	45.6	2	ol,lpx,hpx,FeS	-
RA-QD02-0366	Curation SG15f5	54.1	1	ol	-
RA-QD02-0367	Curation SG13a0	57.8	1	lpx,pl,K-flt	-
RA-QD02-0368	Curation SG13a1	41	2	ol,chl	-
RA-QD02-0369	Curation SG13a4	34.9	1	ol	-
RA-QD02-0370	Curation SG13a5	44.4	1	SiO <sub>2</sub> ,pl,lpx	-
RA-QD02-0371	Curation SG13b0	41.6	1	ol,pl,Al,F	-
RA-QD02-0372	Curation SG13b1	41.1	2	ol,lpx,FeS	-
RA-QD02-0373	Curation SG13b2	32.2	1	lpx,hpx,pl	-
RA-QD02-0374	Curation SG13b3	89.9	1	lpx,ol	-
RA-QD02-0375	Curation SG13b4	33.9	1	ol,hpx	-
RA-QD02-0376	Curation SG13b5	35	1	hpx,lpx	-
RA-QD02-0377	Curation SG13c0	28.4	1	ol,hpx	-
RA-QD02-0378	Curation SG13c1	36.5	1	ol	-
RA-QD02-0379	Curation SG13c3	29.9	1	lpx	-
RA-QD02-0380	Curation SG13c5	30.6	1	ol	-
RA-QD02-0381	Curation SG13d0	34	1	ol,K-flt	-
RA-QD02-0382	Curation SG13d1	31.7	1	lpx,ol	-
RA-QD02-0383	Curation SG13d2	39.5	1	ol	-
RA-QD02-0384	Curation SG13d3	28.8	1	ol,hpx	-
RA-QD02-0385	Curation SG13e0	22.5	1	ol	-
RA-QD02-0386	Curation SG13e1	22.2	1	ol,Al	-
RA-QD02-0387	Curation SG13e2	42.6	1	ol,hpx	-
RA-QD02-0388	Curation SG13e4	31.3	1	ol,pl	-
RA-QD02-0389	Curation SG13e5	31.4	1	ol,hpx,K-flt	-
RA-QD02-0390	Curation SG13f0	27.6	1	lpx,pl,hpx	-
RA-QD02-0391	Curation SG13f1	26.8	1	ol,pl	-
RA-QD02-0392	Curation SG13f2	30.4	1	ol,hpx,lpx	-
RA-QD02-0393	Curation SG13f3	22.6	1	ol,hpx	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0394	Curation SG13f5	32.3	1	ol	-
RA-QD02-0395	Curation SG34a0	25.5	2	ol,FeS,K-flid,hpx,pl	-
RA-QD02-0396	Curation SG34a1	24.8	1	lpx,pl,ol,hpx	-
RA-QD02-0397	Curation SG34a2	37	2	ol,lpx,chl	-
RA-QD02-0398	Curation SG34a3	33.4	1	lpx	-
RA-QD02-0399	Curation SG34a4	39.6	1	lpx,ol,hpx,pl	-
RA-QD02-0400	Curation SG34a5	59.4	1	ol,pl	-
RA-QD02-0401	Curation SG34b0	46.2	2	ol,lpx,hpx,FeS	-
RA-QD02-0402	Curation SG34b1	34.1	1	hpx	-
RA-QD02-0403	Curation SG34b2	30.5	1	ol	-
RA-QD02-0404	Curation SG34b3	28.4	1	ol,pl	-
RA-QD02-0405	Curation SG34b4	23.4	1	ol,lpx,pl	-
RA-QD02-0406	Curation SG34b5	35.5	1	lpx,ol	-
RA-QD02-0407	Curation SG34c0	24.3	1	ol,pl	-
RA-QD02-0408	Curation SG34c1	38.5	1	lpx,pl	-
RA-QD02-0409	Curation SG34c2	24.8	1	ol,hpx,pl	-
RA-QD02-0410	Curation SG34c3	31.7	1	ol,hpx	-
RA-QD02-0411	Curation SG34c4	29.1	1	ol	-
RA-QD02-0412	Curation SG34c5	32.4	1	ol,pl	-
RA-QD02-0413	Curation SG34d0	30.8	1	ol	-
RA-QD02-0414	Curation SG34d1	30.8	1	ol,hpx,pl	-
RA-QD02-0415	Curation SG34d2	25.8	1	lpx,pl,ol	-
RA-QD02-0416	Curation SG34d3	65.3	1	ol	-
RA-QD02-0417	Curation SG34d4	32.9	1	ol	-
RA-QD02-0418	Curation SG34d5	40.7	1	ol,hpx	-
RA-QD02-0419	Curation SG34e0	29.2	1	lpx,hpx,ol	-
RA-QD02-0420	Curation SG34e1	32.3	1	ol	-
RA-QD02-0421	Curation SG34e2	39.7	1	pl,ol,K-flid	-
RA-QD02-0422	Curation SG34e3	27.4	1	ol	-
RA-QD02-0423	Curation SG34e4	24.1	1	ol,pl	-
RA-QD02-0424	Curation SG34e5	29	1	pl,ol	-
RA-QD02-0425	Curation SG34f0	19.6	2	ol,pl,FeS	-
RA-QD02-0426	Curation SG34f1	24.5	2	ol,pl,chl	-
RA-QD02-0427	Curation SG34f2	24.1	1	ol	-
RA-QD02-0428	Curation SG34f3	31	1	ol,K-flid	-
RA-QD02-0429	Curation SG34f4	22.4	1	ol	-
RA-QD02-0430	Curation SG34f5	23.8	2	ol,pl,FeS,hpx	-
RA-QD02-0431	Curation SG35a0	26.4	1	lpx	-
RA-QD02-0432	Curation SG35a1	47.9	1	lpx,ol	-
RA-QD02-0433	Curation SG35a2	26.6	1	ol	-
RA-QD02-0434	Curation SG35a3	65.4	1	ol	-
RA-QD02-0435	Curation SG35a4	29.1	1	ol	-
RA-QD02-0436	Curation SG35a5	23.3	1	pl,lpx,hpx	-
RA-QD02-0437	Curation SG35b0	17.9	2	ol,FeS	-
RA-QD02-0438	Curation SG35b1	28.2	1	ol,K-flid	-
RA-QD02-0439	Curation SG35b2	17.2	2	ol,Fe	-
RA-QD02-0440	Curation SG35b3	23.5	2	ol,hpx,pl,Fe	-
RA-QD02-0441	Curation SG35b4	25.2	1	ol,K-flid	-
RA-QD02-0442	Curation SG35b5	25.2	1	ol,pl	-



Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0443	Curation SG35c0	27.5	2	ol,FeS	-
RA-QD02-0444	Curation SG35c1	31.7	1	ol	-
RA-QD02-0445	Curation SG35c2	21.2	1	hpx	-
RA-QD02-0446	Curation SG35c3	33.3	2	ol,lpx,pl,FeS	-
RA-QD02-0447	Curation SG35c4	29.8	1	ol,pl	-
RA-QD02-0448	Curation SG35c5	32.3	2	ol,FeS	-
RA-QD02-0449	Curation SG35d0	30.1	1	ol	-
RA-QD02-0450	Curation SG05h2	38.9	3	C,O,KCl,NaCl	-
RA-QD02-0451	Curation SG05h3	33.8	3	C,O,N,NaCl,KCl	-
RA-QD02-0452	Curation SG05h4	34	3	C,O,Al,Mg,NaCl,KCl	-
RA-QD02-0453	Curation SG35d1	32.5	2	FeS	-
RA-QD02-0454	Curation SG35d2	41.8	1	ol,hpx,pl	-
RA-QD02-0455	Curation SG35d3	39.5	1	ol	-
RA-QD02-0456	Curation SG35d4	34.6	2	hpx,pl,ol,K fld,FeS	-
RA-QD02-0457	Curation SG35d5	52.2	1	ol,Al	-
RA-QD02-0458	Curation SG35e0	27.9	1	ol	-
RA-QD02-0459	Curation SG35e1	23.6	2	lpx,pl,hpx,FeS	-
RA-QD02-0460	Curation SG35e2	36.3	2	ol,pl,FeS	-
RA-QD02-0461	Curation SG35e3	25.4	2	ol,pl,Fe	-
RA-QD02-0462	Curation SG35e4	22.7	2	ol,Al,Fe	-
RA-QD02-0463	Curation SG35e5	35.1	2	FeS	-
RA-QD02-0464	Curation SG35f0	51	2	FeS,hpx,ol	-
RA-QD02-0465	Curation SG35f1	28.5	1	ol,pl	-
RA-QD02-0466	Curation SG35f2	22.7	1	pl,ol	-
RA-QD02-0467	Curation SG35f3	23.5	2	ol,pl,FeS	-
RA-QD02-0468	Curation SG35f4	23.2	1	pl,K fld,lpx	-
RA-QD02-0469	Curation SG35f5	13	1	ol,hpx	-
RA-QD02-0470	Curation SG36a0	48.1	1	ol,pl	-
RA-QD02-0471-01	Curation SG36a1	24.1	2	pl,lpx,FeS	-
RA-QD02-0471-02	Curation S2-37	11.5	1	pl,lpx	-
RA-QD02-0472	Curation SG36a2	33	1	ol	-
RA-QD02-0473	Curation SG36a3	25	1	ol	-
RA-QD02-0474	Curation SG36a4	31.6	1	pl	-
RA-QD02-0475	Curation SG36a5	25.9	1	pl,ol	-
RA-QD02-0476	Curation SG36b0	33.5	1	pl,Cu	-
RA-QD02-0477	Curation SG36b1	27.8	1	ol	-
RA-QD02-0478	Curation SG36b2	38.2	1	ol	-
RA-QD02-0479	Curation SG36b4	32	1	ol,lpx,Al	-
RA-QD02-0480	Curation SG36b3	25.6	1	ol,Fe,Al	-
RA-QD02-0482	Curation SG36c0	20.1	2	ol,FeS,Al	-
RA-QD02-0483	Curation SG36c1	25	1	lpx,hpx,ol,Cl	-
RA-QD02-0484	Curation SG36c2	28	2	ol,FeS,hpx,Al	-
RA-QD02-0485	Curation SG36c3	25.2	2	lpx,FeNi,FeS,ol	-
RA-QD02-0486	Curation SG36c4	27.2	1	ol,hpx,pl	-
RA-QD02-0487	Curation SG36c5	32.6	2	ol,FeS,lpx,Al	-
RA-QD02-0488	Curation SG36d0	51.5	2	ol,lpx,hpx,FeS,pl,Al	-
RA-QD02-0489	Curation SG36d1	25.7	1	ol,hpx,Al	-
RA-QD02-0490	Curation SG36d2	27.6	1	lpx,ol	-
RA-QD02-0491	Curation SG36d3	29.4	1	ol	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0492	Curation SG36d4	27.5	1	ol	-
RA-QD02-0493	Curation SG36d5	32.8	1	ol	-
RA-QD02-0494	Curation SG36e0	31.4	1	ol	-
RA-QD02-0495	Curation SG36e1	26	1	ol	-
RA-QD02-0496	Curation SG36e2	31.4	1	ol,lpx,Al	-
RA-QD02-0497	Curation SG36e3	32.8	2	lpx,FeS,Na	-
RA-QD02-0498	Curation SG36e4	29.1	1	ol	-
RA-QD02-0499	Curation SG36e5	22.8	1	hpx,ol	-
RA-QD02-0500	Curation SG36f0	33.9	2	pl,ol,hpx,FeS	-
RA-QD02-0501	Curation SG36f1	32.8	1	ol,Al	-
RA-QD02-0502	Curation SG36f2	52	1	ol,hpx,Cl	-
RA-QD02-0503	Curation SG36f3	48.6	2	ol,FeS	-
RA-QD02-0504	Curation SG36f4	37.1	1	ol,Al	-
RA-QD02-0505	Curation SG36f5	31.9	1	ol	-
RA-QD02-0506	Curation SG42a0	39.5	2	ol,pl,hpx,FeS	-
RA-QD02-0507	Curation SG42a1	28.1	1	ol,pl,hpx	-
RA-QD02-0508	Curation SG42a2	26.1	1	ol,hpx,lpx,Al	-
RA-QD02-0509	Curation SG42a3	23.8	1	ol,hpx	-
RA-QD02-0510	Curation SG42a4	34.9	1	ol,hpx	-
RA-QD02-0511	Curation SG42a5	27	2	ol,lpx,chl,Al	-
RA-QD02-0512	Curation SG42b0	29	1	ol	-
RA-QD02-0513	Curation SG42b1	28.7	1	lpx,ol,pl	-
RA-QD02-0514	Curation SG42b2	31.5	1	ol,lpx,Al	-
RA-QD02-0515	Curation SG07h5	48.3	4	Si,O,C,lpx,	-
RA-QD02-0516	Curation SG42b3	23.2	1	pl,hpx,ol	-
RA-QD02-0517	Curation SG42b4	25.1	1	ol	-
RA-QD02-0518	Curation SG42b5	29.5	1	lpx,hpx,ol,pl	-
RA-QD02-0519	Curation SG42c2	26	1	ol,ap	-
RA-QD02-0520	Curation SG42c3	30.6	1	ol	-
RA-QD02-0521	Curation SG42c4	23.9	1	ol	-
RA-QD02-0522	Curation SG42c5	33.3	1	K-fld,pl,ol	-
RA-QD02-0523	Curation SG42d0	27.8	1	ol	-
RA-QD02-0524	Curation SG42d1	19.8	1	ol	-
RA-QD02-0525	Curation SG42d2	47.7	2	FeS	-
RA-QD02-0526	Curation SG42d3	52.2	2	FeS,lpx,ol	-
RA-QD02-0527	Curation SG42d4	35	2	FeS,ol,lpx	-
RA-QD02-0528	Curation SG42d5	26.8	1	pl,ol	-
RA-QD02-0529	Curation SG42e0	31.6	2	ol,FeS	-
RA-QD02-0530	Curation SG42e1	33.5	1	ol	-
RA-QD02-0531	Curation SG42e2	21.2	1	ol	-
RA-QD02-0532	Curation SG42e3	30.8	1	ol,pl	-
RA-QD02-0533	Curation SG42e4	51.3	2	FeS	-
RA-QD02-0534	Curation SG42e5	52.3	2	FeS	-
RA-QD02-0535	Curation SG42f0	24.7	1	ol	-
RA-QD02-0536	Curation SG42f1	27.3	1	ol	-
RA-QD02-0537	Curation SG42f2	35.6	2	FeS	-
RA-QD02-0538	Curation SG42f3	20.5	1	pl	-
RA-QD02-0539	Curation SG42f4	21.3	2	ol,chl	-
RA-QD02-0540	Curation SG42f5	31.4	1	ol,Pt	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0541	Curation SG43a0	45.5	2	chm,Ti	-
RA-QD02-0542-01	Curation SG43a2	19.4	1	lpx	-
RA-QD02-0542-02	Curation SG43a1	13.9	1	hpx,lpx,Na	-
RA-QD02-0543	Curation SG43a3	27.4	1	lpx	-
RA-QD02-0544	Curation SG43a4	18.1	1	ol,lpx	-
RA-QD02-0545	Curation SG43a5	17.7	1	ol,pl	-
RA-QD02-0546	Curation SG43b0	26	1	hpx,ol,pl	-
RA-QD02-0547	Curation SG43b1	18.4	1	ol,K-fld	-
RA-QD02-0548	Curation SG43b2	27.2	1	ol,lpx	-
RA-QD02-0549	Curation SG43b3	18.7	1	pl	-
RA-QD02-0550	Curation SG43b4	22.3	1	lpx	-
RA-QD02-0551	Curation SG43b5	86.1	2	FeS,pl,ol	-
RA-QD02-0552	Curation SG43c0	25.6	1	pl,ol	-
RA-QD02-0553	Curation SG43c1	17.9	1	ol,lpx	-
RA-QD02-0554	Curation SG43c2	51.1	1	ol	-
RA-QD02-0555	Curation SG43c3	27.2	1	ol,pl	-
RA-QD02-0556	Curation SG43c4	20.8	1	lpx,ol,pl	-
RA-QD02-0557	Curation SG43c5	21.2	1	ol	-
RA-QD02-0558	Curation SG43d0	25	1	lpx	-
RA-QD02-0559	Curation SG43d1	23.1	1	ol	-
RA-QD02-0560	Curation SG43d2	16.7	1	ol	-
RA-QD02-0561	Curation SG43d3	18.8	1	ol	-
RA-QD02-0562	Curation SG43d4	82.7	1	ol	-
RA-QD02-0563	Curation SG43d5	16.5	1	lpx,ol,pl	-
RA-QD02-0564	Curation SG43e0	38.8	2	FeNiS	-
RA-QD02-0565	Curation SG43e1	20.5	1	ol	-
RA-QD02-0566	Curation SG43e2	18.5	1	hpx,ol	-
RA-QD02-0567	Curation SG43e3	27	2	ol,FeNi	-
RA-QD02-0568	Curation SG43e4	24.9	1	ol	-
RA-QD02-0569	Curation SG43e5	35.4	1	ol,Al,pl	-
RA-QD02-0570	Curation SG43f0	21.5	1	ol,pl,lpx	-
RA-QD02-0571	Curation SG43f1	25.6	2	ol,FeS	-
RA-QD02-0572	Curation SG43f2	22.2	1	ol	-
RA-QD02-0573	Curation SG43f3	25.6	2	ol,pl,chl,lpx,K-fld,ap	-
RA-QD02-0574	Curation SG43f4	19.7	2	pl,FeS,ol,hpx	-
RA-QD02-0575	Curation SG07f5	52	4	Al,FeS,Ca,Cl	-
RA-QD02-0576	Curation SG05h7	43.4	3	C,F,O,Al,Ca,Mg	-
RA-QD02-0577	Curation SG44a0	28.9	1	hpx	-
RA-QD02-0578	Curation SG44a1	27.8	1	ol	-
RA-QD02-0579	Curation SG44a2	38.2	1	ol	-
RA-QD02-0580	Curation SG44a3	80.3	2	FeS	-
RA-QD02-0581	Curation SG44a4	25.1	1	ol	-
RA-QD02-0582	Curation SG44a5	18.4	1	ol,pl,lpx,Pt	-
RA-QD02-0583	Curation SG44b0	36.1	2	pl,ol,Cr,Fe	-
RA-QD02-0584	Curation SG44b1	22.3	1	ol,pl,Ca	-
RA-QD02-0585	Curation SG44b2	34.5	2	FeS	-
RA-QD02-0586	Curation SG44b3	29.2	2	FeS	-
RA-QD02-0587	Curation SG44b4	32.5	2	lpx,pl,ol,FeS	-
RA-QD02-0588	Curation SG44c0	81.4	2	chl,Mg,Ti,ap,pl	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RA-QD02-0589	Curation SG44c1	27.3	1	ol	-
RA-QD02-0590	Curation SG44c2	59.9	2	FeS	-
RA-QD02-0591	Curation SG44c3	23.2	1	ol,Al	-
RA-QD02-0592	Curation SG44c5	28.5	2	FeS	-
RA-QD02-0593	Curation SG44d0	28.4	2	FeS,pl,lpx	-
RA-QD02-0594	Curation SG44d1	24	1	pl,K-flt	-
RA-QD02-0595	Curation SG44d2	15.8	1	ol	-
RA-QD02-0596	Curation SG44d3	20	1	ol,pl,lpx	-
RA-QD02-0597	Curation SG44d4	19	1	ol	-
RA-QD02-0598	Curation SG44d5	25.5	1	lpx	-
RA-QD02-0599	Curation SG44e0	22.1	1	ol,K-flt	-
RA-QD02-0600	Curation SG44e1	21.1	2	FeNi,chl	-
RA-QD02-0601	Curation SG44e2	32	1	lpx	-
RA-QD02-0602	Curation SG44e3	22.8	1	ol	-
RA-QD02-0603	Curation SG44e4	24.5	1	ol,hpx	-
RA-QD02-0604	Curation SG44e5	25.4	1	ol,pl	-
RA-QD02-0605	Curation SG44f0	21.6	2	chl	-
RA-QD02-0606	Curation SG44f1	20.8	2	chl,Al	-
RA-QD02-0607	Curation SG44f2	32.4	1	ol,ap	-
RA-QD02-0608	Curation SG44f3	23	1	lpx,Al	-
RA-QD02-0609	Curation SG44f4	19.2	1	ol,lpx,pl,K-flt	-
RA-QD02-0610	Curation SG44f5	21.4	1	ol	-
RA-QD02-0611	Curation S3-42	23.8	1	ol	-
RA-QD02-0612	Curation S3-43	18.9	1	pl	-
RA-QD02-0613	Curation SG07g7	27.6	4	Au,Fe,Ni,Cr,Al,Si	-
RA-QD02-0614	Curation SG44c4	22.1	2	ol,pl,FeS	-
RA-QD02-0615	Curation S3-45	32.1	2	ol,FeS,FeNiS,Al	-
RA-QD02-0616	Curation S3-44	19.2	1	pl	-
RA-QD02-0617	LOST	23	1	pl,lpx	-
RA-SG01-0001	Curation S14-261	151	1	lpx,pl,ol,hpx	EXTRA
RA-SG01-0002	Curation S14-262	63.5	1	ol,pl	EXTRA
RA-SG01-0003	Curation S14-265	54.1	1	ol,lpx,Al	-
RA-SG01-0004	Curation SG10a0	25.7	1	ol	-
RA-SG01-0006	BROKEN	35	1	hpx,ol,pl	-
RA-SG01-0007	Curation SG10a5	31.2	1	lpx,hpx	-
RA-SG01-0008	Curation SG15d0	43.4	1	ol,hpx,lpx,pl	-
RA-SG01-0009	Curation SG15d1	96.9	2	ol,pl,FeNi	-
RA-SG01-0010	Curation SG10b1	25.1	1	ol,pl,K-flt	-
RA-SG01-0011	Curation SG10f0	26.8	1	ol	-
RA-SG01-0012	Curation SG10f1	16.6	1	ol,pl	-
RA-SG01-0013	Curation SG10f2	14.4	1	lpx	-
RA-SG01-0014	Curation SG10f3	18.9	1	ol	-
RB-CV-0001	CONSUMED	71.84	1	ol,pl,lpx	AO2_Nagao
RB-CV-0002	CONSUMED	71.1	1	ol,K-flt	AO2_Park
RB-CV-0003	Curation glovebox2	33.9	2	ol,FeS	AO2_Tsuchiyama
RB-CV-0004	JAXA	205	2	ol,pl,hpx,lpx,FeS	-
RB-CV-0005	Curation SG05c6	37	3	C,NaCl	-
RB-CV-0006	Curation SG05c7	27.9	3	(C,N,O),C	-
RB-CV-0007	Curation SG05c8	43.1	3	(C,N,O)	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RB-CV-0008	Kyushu Univ.	56.1	3	(C,N,O)	AO4_Naraoka
RB-CV-0009	CONSUMED	82.51	1	ol,hpx,lpx,pl	AO2_Nagao
RB-CV-0010	Curation glovebox2	33.3	1	ol	AO2_Tsuchiyama
RB-CV-0011	Kyushu Univ.	43.7	1	lpx	AO3_Noguchi-2
RB-CV-0012	Curation SG05d1	73.2	3	(C,O),(C,N,O)	-
RB-CV-0013	NASA	98.5	1	lpx,pl,hpx,ol	NASA2
RB-CV-0014	NASA	98	2	ol,FeS	NASA2
RB-CV-0015	NASA	45.5	1	ol,pl	NASA2
RB-CV-0016	Curation S4-67	47.4	2	ol,FeS	-
RB-CV-0017	Curation SG05d2	51.7	3	(C,N,O),(C,O)	-
RB-CV-0018	Curation SG07c7	88.5	4	Al,(C,O)	-
RB-CV-0019	Curation SG05d4	32.6	3	C,(C,N,O)	-
RB-CV-0020	Kirkklareli Univ.	68.6	3	(C,O)	AO8_Yesiltas
RB-CV-0021	Curation SG05h6	49.3	3	CO	-
RB-CV-0022	CONSUMED	165	1	ol,Al	AO2_Nishiizumi
RB-CV-0023	Curation S1-8	51.5	1	ol,pl	-
RB-CV-0024	CONSUMED	108	2	ol,lpx,pl,chl	AO4_Park
RB-CV-0025	Curation glovebox2	91	1	ol,pl,hpx,(Ca,Cl)	CO
RB-CV-0026	JAXA	83.2	1	ol	CU1_Yada
RB-CV-0027	Curation SG05d5	59	3	(C,N,O)	-
RB-CV-0028	NASA	76.1	1	pl,hpx,ol	NASA2
RB-CV-0029	NASA	86	3	(C,O),pl,NaCl	AO3_Chan
RB-CV-0030	Curation S4-68	34.1	1	lpx,pl,ol	-
RB-CV-0031	Kyushu Univ.	61	3	(C,N,O)	AO4_Naraoka
RB-CV-0032	Curation SG05d7	59	3	(C,N,O)	-
RB-CV-0033	Curation S4-69	43.7	1	ol,pl	-
RB-CV-0034	Curation S14-279	48.8	1	lpx,pl	-
RB-CV-0035	Curation SG05d8	25	3	(C,N,O),NaCl,hpx	-
RB-CV-0036	JAXA	57.8	1	ol,hpx	CU1_Yada
RB-CV-0037	Curation glovebox2	51.7	2	ol,lpx,hpx,chl	AO2_Tsuchiyama
RB-CV-0038	US Naval Research Lab.	51.7	2	ol,FeS,hpx	AO3_Stroud
RB-CV-0039	CONSUMED	76.78	1	pl,ol,hpx	AO2_Nagao
RB-CV-0040	CONSUMED	61	1	ol	AO3_Yabuta
RB-CV-0041	Curation SG05e1	49	3	(C,O),(C,N,O),NaCl	-
RB-CV-0042	Curation SG07c8	56	4	Al	-
RB-CV-0043	BROKEN	19.8	1	ol,lpx,(Ca)	CO
RB-CV-0044	JAXA	84.9	1	ol	CU1_Yada
RB-CV-0045	Curation glovebox2	25.8	1	ol	AO2_Tsuchiyama
RB-CV-0046	Curation SG07c9	71	4	Al,ol	-
RB-CV-0048	Curation SG07d0	77	4	Al	-
RB-CV-0049	Curation SG05e5	37	3	(C,N,O)	-
RB-CV-0050	Curation S1-17	62	1	ol	-
RB-CV-0051	CONSUMED	78.8	2	hpx,pl,chl	AO2_Park
RB-CV-0052	Curation SG05e2	40	3	(C,O),Cl	-
RB-CV-0053	Curation S14-280	23.4	1	ol	-
RB-CV-0054	Curation SG07d1	82	4	Al	-
RB-CV-0055	Curation SG05e3	45	3	(C,N,O),Al	-
RB-CV-0056	Curation SG07d4	113	4	Al	-
RB-CV-0057	Curation SG07d2	74	4	Al	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RB-CV-0058	LOST	72	2	FeNi,Fe,ol,lpx,hpx	CO
RB-CV-0059	Curation SG07d3	59	4	Al	-
RB-CV-0060	Curation S8-145	33.1	1	ol	-
RB-CV-0061	LOST	41	1	ol	-
RB-CV-0062	Curation S10-182	24.7	1	ol,pl	-
RB-CV-0063	Curation S2-24	77.7	2	ol,FeS,Al	-
RB-CV-0064	Curation S11-205	34.5	1	ol,hpx,pl	-
RB-CV-0065	Curation SG05e6	33	3	(C,N,O)	-
RB-CV-0066	Curation SG05e7	29	3	(C,N,O),NaCl	-
RB-CV-0067	Curation SG07d5	61	4	(Si,O)	-
RB-CV-0068	Curation SG05f2	55	3	(C,N,O),ol	-
RB-CV-0069	Curation S8-159	29.2	1	ol,pl	-
RB-CV-0070	Curation SG07e0	72	4	(Fe,Cr,Ni)	-
RB-CV-0071	Curation S6-105	30.1	1	ol	-
RB-CV-0072	Curation SG07d6	87	4	Al,(C,O)	-
RB-CV-0073	Curation SG07d7	73	4	Al	-
RB-CV-0074	Curation SG05f3	26	3	(C,N,O),NaCl,Al	-
RB-CV-0075	Curation SG07d8	63	4	(Si,O)	-
RB-CV-0076	Curation S6-117	39.8	1	ol	-
RB-CV-0077	Curation SG05e8	100	3	(C,N,O)	-
RB-CV-0078	Curation SG05f1	208	3	(C,O)	-
RB-CV-0079	Kyushu Univ.	68	3	(C,N,O),Al,K,Si	AO4_Naraoka
RB-CV-0080	NASA	83	3	(C,N,O),(C,O),Al,K,Si	AO3_Chan
RB-CV-0081	Curation S2-22	53.72	2	ol,FeS	-
RB-CV-0082	CONSUMED	107.42	1	pl, hpx, K-fld	AO3_Jourdan
RB-CV-0083	Curation glovebox2, PS	93.66	1	lpx,ol,pl,Al	AO3_Boonsue
RB-CV-0084	Curation S2-28	56.02	1	ol,lpx	-
RB-CV-0085	LOST	72.97	1	ol	-
RB-CV-0086	Curation glovebox2,attached to carbon fiber using crystal bond	49.26	1	ol, Ca	AO3_Terada
RB-CV-0087	Univ. Glasgow	48.61	2	lpx,FeS, FeNi	AO5_Daly
RB-CV-0088	Curation S1-9	49.17	1	lpx	-
RB-CV-0089	CONSUMED	86.16	1	lpx,ol	AO3_Noguchi-2
RB-CV-0090	Curation S9-166	34.33	1	ol	-
RB-CV-0091	ASU	29.88	2	ol,chm	AO7_Davidson
RB-CV-0092	LOST	33.33	1	ol	-
RB-CV-0093	Curation S9-172	41.26	1	ol	-
RB-CV-0094	Curation S6-110	17.96	1	ol	-
RB-CV-0095	Curation S9-179	41.31	1	ol	-
RB-CV-0096	Univ. Hawaii	23.73	2	ol, hpx, FeS	AO6_Ishii
RB-CV-0097	Curation S6-112	17.94	1	ol	-
RB-CV-0098	Purdue Univ.	21.14	2	lpx,ol,pl,FeS	AO6_Thompson
RB-CV-0099	Curation S7-130	26.38	1	lpx,hpx	-
RB-CV-0100	Curation S11-203	20.48	1	ol	-
RB-CV-0101	Curation S11-211	22.11	2	ol,pl,FeNi	-
RB-CV-0102	Curation S10-194	26.28	1	ol,pl	-
RB-CV-0103	Curation S11-204	25.22	1	ol	-
RB-CV-0104	Curation S10-199	21.99	1	lpx,ol	-
RB-CV-0105	Curation S15-281	18.9	1	lpx	-
RB-CV-0106	Curation S15-284	26.01	2	ol,FeS	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RB-CV-0107	Curation SG6-115	24.17	1	pl	-
RB-CV-0108	Curation S10-188	26.07	2	ol, chm	-
RB-CV-0109	Curation S11-201	28.42	1	ol	-
RB-CV-0110	Curation SG17f5	18.72	1	ol	-
RB-CV-0111	Curation SG18a1	29.12	1	lpx, hpx	-
RB-CV-0112	Curation SG18a2	27.79	1	lpx	-
RB-CV-0113	Curation SG18a3	27.83	1	ol	-
RB-CV-0114	Curation SG18a4	24.57	1	ol	-
RB-CV-0115	Curation SG18b1	20.83	1	lpx	-
RB-CV-0116	Curation SG18a0	28.24	2	ol, lpx, FeS	-
RB-CV-0117	Curation SG18b2	25.76	1	ol, pl	-
RB-CV-0118	Curation SG18b3	21.44	1	ol, pl	-
RB-CV-0119	Curation SG18b4	24.33	2	ol, lpx, FeS	-
RB-CV-0120	Curation SG18b5	27.4	1	ol	-
RB-CV-0121	Purdue Univ.	26.45	2	ol, lpx, FeS	AO6_Thompson
RB-CV-0122	Curation SG18c1	25.24	1	pl	-
RB-CV-0123	Curation SG18c2	19.43	1	ol	-
RB-CV-0124	Curation SG18c3	23.77	1	hpx, pl	-
RB-CV-0125	Curation SG18c4	27.07	1	ol	-
RB-CV-0126	Curation SG18c5	15.96	1	ol, pl	-
RB-CV-0127	Curation SG18d2	19.44	2	FeNi, chm, pl	-
RB-CV-0128	Kyushu Univ.	47.75	2	ol, lpx, hpx, pl, Fe, FeS	CO, AO6_Matsumoto-1
RB-CV-0129	Curation SG18b0	23.47	1	hpx	-
RB-CV-0132	Curation SG07e5	50	4	Al <sub>2</sub> O <sub>3</sub>	-
RB-CV-0133	Curation SG18d4	30.7	1	ol	-
RB-CV-0134	Curation SG18e0	40.2	1	ol, lpx	-
RB-CV-0135	Curation SG18e1	27.25	1	ol	-
RB-CV-0136	Curation SG18e2	29.13	2	ol, hpx, FeS	-
RB-CV-0138	Curation SG18e4	17.6	1	ol	-
RB-CV-0139	Curation SG18e5	15	1	ol	-
RB-CV-0140	Curation SG18f0	20.7	1	ol	-
RB-CV-0141	Curation SG18f1	16.1	1	ol, lpx	-
RB-CV-0142	Curation SG18f2	17.7	1	ol	-
RB-CV-0143	Curation SG18f3	14.7	1	ol	-
RB-CV-0144	Univ. Jena	17.1	1	lpx, hpx, pl	AO4_Langenhorst
RB-CV-0145	Curation SG18f5	13.9	1	ol, lpx, pl	-
RB-CV-0146	Curation SG19a0	14.8	1	ol, lpx, hpx	-
RB-CV-0147	Curation SG19a1	22.3	1	lpx, ol, Al	-
RB-CV-0148	Kyushu Univ.	21.2	1	ol	AO3_Noguchi-2
RB-CV-0149	Curation SG19a3	23.9	1	lpx	-
RB-CV-0150	Curation SG19a5	21.19	1	ol, lpx	-
RB-CV-0151	Curation SG19b1	23.36	1	ol	-
RB-CV-0152	Curation SG19b2	11.56	1	ol	-
RB-CV-0153-01	Curation SG19b3	18.58	1	ol	-
RB-CV-0153-02	Curation SG19b4	26.8	1	ol	-
RB-CV-0155	Curation SG19b5	15.58	1	ol	-
RB-CV-0156	Curation SG19c0	26.3	1	ol	-
RB-CV-0157	Curation SG19c1	21.5	2	chm, Al	-
RB-CV-0158	Curation SG19c2	23.39	1	ol	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RB-CV-0159	Curation SG19c2	12.15	2	ol,FeNi	-
RB-CV-0160	Curation SG19c4	18.48	1	ol	-
RB-CV-0161	Curation SG19c5	15.12	1	ol	-
RB-CV-0162	Curation SG19d0	18.11	1	ol	-
RB-CV-0163-01	Curation SG19d1	29.92	1	ol	-
RB-CV-0163-02	Curation SG19d3	44.16	1	ol	-
RB-CV-0165-01	Curation SG19d4	22.38	1	ol	-
RB-CV-0165-02	Curation SG19e0	22.98	1	ol,pl	-
RB-CV-0167	Curation SG19e1	15.33	1	ol	-
RB-CV-0168	Curation SG19e2	17.68	1	pl	-
RB-CV-0169	Curation SG19e3	19.4	1	ol	-
RB-CV-0170-01	Curation SG19e4	13.2	1	lpx	-
RB-CV-0171	Curation SG19e5	17.4	1	pl	-
RB-CV-0172	Curation SG19f0	19.4	1	lpx,ol	-
RB-CV-0173	Curation SG19f1	19.8	2	lpx,Fe	-
RB-CV-0174	Curation SG19f2	18.5	1	ol	-
RB-CV-0175	Curation SG19f3	12.9	1	lpx	-
RB-CV-0176	Curation SG19f4	11.9	1	ol	-
RB-CV-0177	Curation SG19f5	18.9	1	ol	-
RB-CV-0179	Curation SG20a0	22.5	1	ol,lpx	-
RB-CV-0180	Curation SG20a1	19.6	1	ol	-
RB-CV-0181	Curation SG20a2	22.5	1	lpx	-
RB-CV-0182	Curation SG20a3	14.9	1	hpx	-
RB-CV-0183	Curation SG20a4	18.4	1	ol	-
RB-CV-0184	Curation SG20a5	24.2	1	ol,Al	-
RB-CV-0185	Curation SG20b0	12	1	ol	-
RB-CV-0186	Curation SG20b1	16.18	1	ol	-
RB-CV-0187	BROKEN	17.3	1	ol,hpx	-
RB-CV-0188-01	Curation SG20b3	23.06	1	hpx,Al	-
RB-CV-0192	Univ. Jena	17.2	1	hpx,lpx,ol	AO4_Langenhorst
RB-CV-0193	Curation SG20d1	15	1	hpx,pl	-
RB-CV-0194	Curation SG20d2	18.3	1	ol,pl	-
RB-CV-0195	Curation SG20d3	18.8	1	ol	-
RB-CV-0196-01	Curation SG20d4	16.3	1	pl,lpx	-
RB-CV-0196-02	Curation SG20d5	13.4	1	lpx	-
RB-CV-0197	Curation SG20e0	18.8	1	pl	-
RB-CV-0198	Curation SG20e1	12.7	1	ol	-
RB-CV-0199	Curation SG20e2	19.1	1	ol	-
RB-CV-0200	Curation SG20e3	25.4	1	pl	-
RB-CV-0201	Curation SG20e4	15.8	1	lpx	-
RB-CV-0202	Curation SG07e6	15	4	Al	-
RB-CV-0203	Curation SG07e8	10	4	Cr,Zn	-
RB-CV-0204	Curation SG20e5	11.5	1	ol	-
RB-CV-0205	Curation SG20e5	28.4	1	ol	-
RB-CV-0206	Curation SG20f0	28.9	1	ol	-
RB-CV-0207	Curation SG20f1	12.2	1	pl	-
RB-CV-0208	Curation SG20f2	17.3	1	pl	-
RB-CV-0209	Curation SG20f4 under	35.9	2	ol,FeS	-
RB-CV-0210	Curation SG20f3	16.8	1	ol	-



Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RB-CV-0211	Curation S1-11	46.2	1	ol	-
RB-CV-0212	Curation SG20f5	18.8	1	lpx	-
RB-CV-0213	Curation S15-293	16.8	1	lpx,pl	-
RB-CV-0214-01	Curation S15-292	17.5	1	ol	-
RB-CV-0214-02	Curation S15-294	15.4	1	ol	-
RB-CV-0215	Curation S15-289	22.1	1	ol	-
RB-CV-0216	Curation S15-297	17.9	1	ol	-
RB-CV-0217	Curation S5-97	37.3	1	ol	-
RB-CV-0218	Curation S5-98	27.9	2	ol,lpx,FeS,Al	-
RB-CV-0219	Curation S15-298	13	1	hpx,lpx	-
RB-CV-0220	Curation S15-299	12.3	1	lpx	-
RB-CV-0221	Curation SG07f9	40	4	Al,Mg	-
RB-CV-0222	Curation SG21b3	13	1	ol	-
RB-CV-0223	Curation S5-99	24.7	1	ol	-
RB-CV-0224	Curation S15-300	15.9	1	ol	-
RB-CV-0225	Curation S5-96	38.2	1	ol	-
RB-CV-0226	Curation S15-287	25.8	1	lpx,ol	-
RB-CV-0227	Curation S5-100	22.8	1	ol	-
RB-CV-0228	Curation S6-108	14.3	1	lpx	-
RB-CV-0229	Curation S6-120	12.4	1	pl	-
RB-CV-0230	Curation SG21c5	17.4	1	ol,pl	-
RB-CV-0231	Curation S15-290	25.3	1	hpx	-
RB-CV-0232	Curation SG21d1	10.7	1	lpx	-
RB-CV-0233	Curation S15-288	33.5	2	ol,FeS	-
RB-CV-0234	ASU	25.9	2	FeS,Fe,FeNiS,CuS	AO5_Schrader
RB-CV-0235	Curation SG21d3	15.7	1	ol,pl	-
RB-CV-0236	Curation SG21d5	14.7	1	hpx	-
RB-CV-0237	Curation S15-291	20.8	1	ol,lpx	-
RB-CV-0239	Curation SG05g4	15	3	C, NaCl, Al	-
RB-CV-0240	Curation SG07g0	20	4	Al,Mg	-
RB-CV-0241	Curation SG07g1	40	4	Al	-
RB-CV-0242	Curation SG21e2	17.4	1	lpx,ol	-
RB-CV-0243	Curation SG05g5	10	3	(C,N,O)	-
RB-CV-0244	Curation SG07g2	30	4	Al	-
RB-CV-0245	Curation SG21e5	17.8	1	ol	-
RB-CV-0246	Curation SG21f0	27.4	1	pl,ol	-
RB-CV-0247	Curation SG21f1	22.5	2	ol,FeS	-
RB-CV-0248	Curation SG21f2	17.1	1	ol	-
RB-CV-0249	Curation SG21f3	17.8	1	ol	-
RB-CV-0250	Curation SG21f4	16.9	1	pl,ol	-
RB-CV-0251	Curation SG21f5	16.4	1	ol	-
RB-CV-0252	Curation SG17b4	23.6	1	ol	-
RB-CV-0253	Curation S14-267	24	1	ol	-
RB-CV-0254	Curation S14-268	17	1	ol	-
RB-CV-0255	Curation S14-277	19	1	hpx,ol,pl	-
RB-CV-0256	Curation SG17d3	22	1	ol	-
RB-CV-0257	Curation SG17e4	16	1	ol	-
RB-CV-0258	Curation SG18a5	24	1	ol	-
RB-CV-0259	Curation SG05g0	30	3	C	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RB-CV-0260	Curation SG18d0	9	1	hpx	-
RB-CV-0261	Curation SG05g6	26.9	3	C, O, N	-
RB-CV-0262	ASU	39.2	2	chm	AO7_Davidson
RB-CV-0263-01	Curation SG22a2	20.6	1	ol	-
RB-CV-0263-02	Curation SG22a0	15.3	1	ol	-
RB-CV-0264	Curation SG22a4	15.7	1	ol	-
RB-CV-0265	Curation SG22a5	32.2	1	ol	-
RB-CV-0266	Curation SG22b0	25.7	1	ol	-
RB-CV-0267	Hokkaido Univ.	38.5	1	ol	AO8_Bajo
RB-CV-0268	Curation SG22b2	26.6	1	pl	-
RB-CV-0269	Curation SG22b3	18.7	1	pl	-
RB-CV-0270	Curation SG22b4	19.8	1	lpx	-
RB-CV-0271	Curation SG22b5	21.1	1	ol	-
RB-CV-0272	Curation SG22c0	31.8	1	lpx,pl	-
RB-CV-0273	Curation SG22c1	13.1	1	ol	-
RB-CV-0274	Curation SG07g4	20.6	4	Al	-
RB-CV-0275	Curation SG22c2	15.4	1	pl,ol	-
RB-CV-0276	Curation SG22c3	11.2	1	ol	-
RB-CV-0277	Curation SG22c4	27	1	ol,hpx	-
RB-CV-0278	Curation SG22c5	17.8	1	hpx	-
RB-CV-0279	Curation SG22d0	21	1	lpx	-
RB-CV-0280	Curation SG22d1	13.4	1	ol	-
RB-CV-0281	Curation SG22d2	30.1	1	lpx,Al,Zn	-
RB-CV-0282	Curation SG22d3	36.3	1	lpx	-
RB-CV-0283	Curation SG22d4	15.6	1	lpx,pl	-
RB-CV-0284	Curation SG22d5	19.5	1	pl	-
RB-CV-0285	Curation SG22e0	15.5	1	lpx	-
RB-CV-0286	Curation SG22e1	22.4	1	ol	-
RB-CV-0287	Curation SG22e2	24.3	1	pl,ol	-
RB-CV-0288	Curation SG22e3	16.1	2	K-fld,pl,Ti	-
RB-CV-0289	Curation SG22e4	20.8	1	hpx,pl	-
RB-CV-0290	Curation SG22e5	11.7	1	hpx	-
RB-CV-0291	Curation SG22f0	10.6	1	hpx	-
RB-CV-0292	Curation SG22f1	24.3	1	hpx,Al	-
RB-CV-0293	Curation SG22f2	14.3	1	hpx,ol	-
RB-CV-0294	Curation SG22f4	28.8	1	ol,Al	-
RB-CV-0295	LOST	59.7	1	ol,Al,Ba,Cu,S	-
RB-CV-0296	Curation SG18d5	20.1	1	lpx,hpx	-
RB-QD04-0001	Curation glovebox2, almost consumed, pressed on Au plate	19	3	(C,N,O),C,ol,Al	PE
RB-QD04-0002	NASA	38	1	ol,pl,K-fld	NASA
RB-QD04-0003	LOST	32	3	C,Al,NaCl,K	-
RB-QD04-0004	LOST	85	1	hpx,ol,pl,FeS	-
RB-QD04-0005	NASA	36	1	hpx,pl	NASA
RB-QD04-0006	Curation glovebox2, PS with Au-coat	32	1	ol,pl	PE
RB-QD04-0007	Curation S3-48	14	1	pl	-
RB-QD04-0008	Curation glovebox2, PB embedded in epoxy resin	44	1	ol,hpx	AO1_Noguchi
RB-QD04-0008-01_02	Curation glovebox2, UTS by UM		1	-	AO1_Noguchi
RB-QD04-0008-03_04	Curation glovebox2, UTS by FIB		1	-	AO1_Noguchi
RB-QD04-0009	LOST	13	1	ol	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RB-QD04-0010	LOST	26	1	ol,lpx,pl	-
RB-QD04-0011	Curation glovebox2, PB embedded in epoxy resin	35	1	[ol]	AO1_Noguchi,AO3_Zolensky
RB-QD04-0011-01_02	Curation glovebox2, UTS by UM		1	-	AO1_Noguchi
RB-QD04-0012	Curation S3-49	21	1	pl,hpx,ol	-
RB-QD04-0013	LOST	29	1	hpx,ol,Sn,K-flid	AO1_Tsuchiyama
RB-QD04-0014	JAXA	158	1	ol,lpx,pl,FeS	-
RB-QD04-0015	Curation glovebox2, PB embedded in epoxy resin	47	1	ol,FeS	AO1_Noguchi
RB-QD04-0015-01_02	Curation glovebox2, UTS by UM		1	-	AO1_Noguchi
RB-QD04-0017	Curation SG07a0	56	4	Al,CF	-
RB-QD04-0019	Curation S3-50	23	1	pl,hpx	-
RB-QD04-0021	LOST	16	1	ol,FeS	-
RB-QD04-0022	Curation glovebox2, PS embedded in EM812 with carbon coat	38	1	pl,Al	AO1_Nakamura,AO3_Zolensky
RB-QD04-0023	CONSUMED	54	1	ol	PE
RB-QD04-0024	Curation glovebox2, FIB hole, PB embedded in epoxy resin	35	1	lpx,pl	AO1_Noguchi
RB-QD04-0024-01_03	Curation glovebox2, UTS by UM		1	-	AO1_Noguchi
RB-QD04-0024-04_05	Curation glovebox2, UTS by FIB		1	-	AO1_Noguchi
RB-QD04-0025	Curation glovebox2, PS with Au coat	34	1	lpx,ol,hpx,Na	PE,AO3_Terada
RB-QD04-0026	Curation glovebox2, PS embedded in EPON812 with carbon coat	36	1	lpx	AO1_Tsuchiyama
RB-QD04-0027	CONSUMED	30	1	ol,pl	AO1_Tsuchiyama
RB-QD04-0028	LOST	33	1	ol	-
RB-QD04-0029	LOST	21	3	CNO,CO	-
RB-QD04-0030-01	NASA	184	1	hpx,lpx,ol,pl,FeS	NASA2
RB-QD04-0030-02	Curation S3-53	19	1	lpx	-
RB-QD04-0031	CONSUMED	64	3	(C,O),Al	AO4_Naraoka
RB-QD04-0032	Curation SG07a2	38	4	SiO	-
RB-QD04-0033	BROKEN	71	2	ol,lpx,FeS	PE, AO2_Komatsu
RB-QD04-0033-01	LOST, particle with C-coat	20	2	-	PE, AO2_Komatsu
RB-QD04-0033-02	LOST, particle with C-coat	20	2	-	PE, AO2_Komatsu
RB-QD04-0034	Curation S3-55	46	1	lpx	-
RB-QD04-0035	Curation SG05a8upper	59	3	(C,N,O),NaCl,KCl	-
RB-QD04-0036	Curation S3-56	25	1	ol	-
RB-QD04-0037-01	Curation glovebox2, large FIB hole, pressed on In plate	48	3	(C,N,O),(C,O),ol	PE
RB-QD04-0037-01-01_02	Curation glovebox2,UTSs by FIB		3	[C,N,Si,CaCl]	PE
RB-QD04-0037-03	Curation SG05b1	15	3	(C,N,O)	-
RB-QD04-0038	NASA	56	1	lpx,ol	NASA
RB-QD04-0039	ASU	52	2	ol,lpx,FeS	AO5_Schrader
RB-QD04-0040	Curation glovebox2, embedded in epoxy resin	74	2	ol,pl,(Fe,Ni,S)	CO, AO6_Nakato
RB-QD04-0041	Curation glovebox2, particle with C-coat on Mo plate	41	1	ol,lpx,Al	PE
RB-QD04-0042	DIVIDED	47	1	ol,K-flid	AO1_Langenhorst
RB-QD04-0042-01_04	Curation glovebox2, UTS by FIB		1	-	AO1_Langenhorst
RB-QD04-0043	DIVIDED	34	1	ol,lpx,Al	AO1_Tsuchiyama
RB-QD04-0043-01	Kyoto Univ., attached to carbon fiber using acetone-soluble bond, sliced by FIB		1	(ol,lpx,pl)	AO1_Tsuchiyama,AO3_Miyake
RB-QD04-0043-01_03	Curation glovebox2, UTS by FIB		1	-	AO1_Tsuchiyama
RB-QD04-0043-02	Kyoto Univ., attached to Cu mesh, a piece sliced by FIB		1	ol,lpx,pl	AO1_Tsuchiyama,AO3_Miyake
RB-QD04-0043-03	Kyoto Univ., attached to Cu mesh, a piece sliced by FIB		1	ol,lpx,pl	AO1_Tsuchiyama,AO3_Miyake
RB-QD04-0043-04	Kyoto Univ., attached to Cu mesh, UTS sliced by FIB		1	ol,lpx,pl	AO1_Tsuchiyama,AO3_Miyake
RB-QD04-0043-05	Kyoto Univ., attached to Cu mesh, UTS sliced by FIB		1	ol,lpx,pl	AO1_Tsuchiyama,AO3_Miyake
RB-QD04-0043-06	Kyoto Univ., attached to Cu mesh, UTS sliced by FIB		1	ol,lpx,pl	AO1_Tsuchiyama,AO3_Miyake
RB-QD04-0044	JAXA ICF70-T002-KA03	52	1	ol	CU2

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RB-QD04-0045	US Naval Research Lab.	59	2	ol,lpx,pl,FeS	AO3_Stroud
RB-QD04-0046	Curation glovebox2, attached to carbon fiber using acetone-soluble bond	45	1	ol	AO1_Tsuchiyama,AO4_Brunetto
RB-QD04-0047-01	Curation SG05b3	66	3	-	-
RB-QD04-0047-02	Curation glovebox2, large FIB hole, pressed on Au plate	28	3	(C,O),C	PE
RB-QD04-0047-02-01	Curation glovebox2,UTSs by FIB		3	[C,N,O,Si]	PE
RB-QD04-0048	Curation SG05c5	56	3	(C,O)	-
RB-QD04-0049	Preliminary examination	51	1	ol,Al	PE
RB-QD04-0050	Curation SG07a4	55	4	Al	-
RB-QD04-0051	CONSUMED	39	1	ol	AO3_Bonal
RB-QD04-0052	NASA	96	3	(C,F,O),Al,Ti	AO3_Chan
RB-QD04-0053	Curation S3-57	31	1	ol	-
RB-QD04-0054	Curation S3-58	38	1	pl,lpx	-
RB-QD04-0055	Curation glovebox2, mounted on Au coated carbon tape	37	1	ol	AO2_Yurimoto
RB-QD04-0056	JAXA	108	2	lpx,pl,FeNi,FeS	EXTRA
RB-QD04-0057	IPAG	32.62	1	ol	AO3_Bonal
RB-QD04-0058	NASA	34.86	1	pl,ol	AO3_Keller
RB-QD04-0059	CONSUMED	190.78	1	pl,K fld,lpx	AO3_Jourdan
RB-QD04-0060	IPAG	37.31	1	ol	AO3_Bonal
RB-QD04-0061	Curation S4-66	30.65	1	ol	-
RB-QD04-0062	Hawaii Univ.	39.94	1	ol,pl	AO2_Ogliore
RB-QD04-0063	Kyushu Univ.	32.95	1	ol	AO3_Noguchi-2
RB-QD04-0064	LOST	33	1	pl,(Ca,Cl)	CO
RB-QD04-0065	Curation SG07b7	37	4	Al	-
RB-QD04-0066	LOST	35	1	ol	-
RB-QD04-0067	Curation SG07b8	48	4	Al	-
RB-QD04-0068	Curation S3-60	25.34	1	ol	-
RB-QD04-0069	CONSUMED	33.23	1	ol,hpx,pl,(Si,O)	CO
RB-QD04-0070	Curation S4-62	27.73	1	lpx	-
RB-QD04-0071	Curation S4-63	21.82	1	ol,pl	-
RB-QD04-0072	CONSUMED	25.45	2	ol,Fe	AO2_Cipriani
RB-QD04-0073	Curation SG07b9	32	4	(Al,O)	-
RB-QD04-0074	NASA	32.03	1	pl,ol	AO3_Keller
RB-QD04-0075	Curation S4-64	34.7	1	hpx,lpx	-
RB-QD04-0076	Curation S4-70	30.97	1	ol	-
RB-QD04-0077	Curation S4-71	20.53	2	ol,FeS	-
RB-QD04-0078	Curation SG05d3	19	3	(C,O),ol	-
RB-QD04-0079	Curation glovebox2	30	1	ol,(Ca,Cl)	CO
RB-QD04-0080	Kyushu Univ.	34.82	1	ol,lpx,pl	AO3_Noguchi-2
RB-QD04-0081	Curation S4-74	33.29	1	ol	-
RB-QD04-0082	Curation S4-75	28.21	1	pl,ol	-
RB-QD04-0083	ESA ESTEC	30	1	lpx,ol,hpx	AO2_Cipriani
RB-QD04-0084	Tohoku Univ	30.8	1	ol,pl,K fld	AO2_Gucsik
RB-QD04-0085	Tohoku Univ.	31.79	1	pl	AO2_Gucsik
RB-QD04-0086	Curation S4-76	21.23	1	lpx,ol,pl	-
RB-QD04-0087	Curation S4-78	29.07	1	ol	-
RB-QD04-0088	Tohoku Univ.	24.75	1	ol,(Ca,O)	CO
RB-QD04-0089-01	Curation SG22a0	31.8	1	hpx	-
RB-QD04-0090	NASA	39	1	pl	AO3_Keller
RB-QD04-0091	Hawaii Univ.	42.76	1	pl,ol	AO2_Ogliore

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RB-QD04-0092	Univ. Jena	37.61	1	ol,lpx,hpx	AO4_Langenhorst
RB-QD04-0093	LOST	28.79	1	ol,hpx	-
RB-QD04-0094	Curation S4-79	35.64	1	ol,Al	-
RB-QD04-0095	LOST	32	2	ol,pl,FeS	CU1_Uesugi
RB-QD04-0096	IPAG	33.13	1	ol	AO3_Bonal
RB-QD04-0097	Curation S1-6	37.7	1	ol,pl	-
RB-QD04-0098	Curation SG07c0	39	4	(Si,O)	-
RB-QD04-0099	Curation S1-7	36.86	1	lpx	-
RB-QD04-0100	Curation S1-10	53.98	1	lpx	-
RB-QD04-0101	Curation S1-16	54.34	1	pl	-
RB-QD04-0102	Curation glovebox2	27.96	1	ol,pl,lpx	AO2_Tsuchiyama
RB-QD04-0103	JAXA N2-SP3	46.73	1	pl,ol	CU1_Uesugi
RB-QD04-0104	NASA	42.24	1	ol,pl	NASA2
RB-QD04-0105	Curation S1-19	32.93	1	ol	-
RB-QD04-0106	Curation SG07lowerleft	42	4	SiO	-
RB-QD04-0107	CONSUMED	57.27	1	ol	AO3_Yabuta
RB-QD04-0108	Curation S2-21	58.67	1	ol,lpx	-
RB-QD04-0109	Curation S1-12	42.3	1	ol,lpx	-
RB-QD04-0110	Curation S1-13	27.1	1	ol	-
RB-QD04-0111	Curation S1-14	22.7	1	ol,pl	-
RB-QD04-0112	Univ. Hawaii	30.3	1	pl,lpx	AO6_Ishii
RC-MD01-0001	Curation S8-152	78.3	1	ol,pl	-
RC-MD01-0002	Curation S8-153	64.7	1	lpx,ol	-
RC-MD01-0003	Curation S8-155	79	1	lpx,pl,hpx	-
RC-MD01-0004	Curation S8-156	42.2	1	pl,ol	-
RC-MD01-0005	Curation SG07f0	28.6	4	Si,O	-
RC-MD01-0006-01	Curation SG07f1	35.2	4	Al,O,C,F,N	-
RC-MD01-0006-02	Curation SG07f2	21.6	4	Fe,Ni,Cr,Al	-
RC-MD01-0007	Curation SG05g9	47.7	3	C,O,N	-
RC-MD01-0008	Curation SG05h0	53.9	3	C,O,N	-
RC-MD01-0009	Curation S8-157	73.7	2	hpx,lpx,pl,FeS	-
RC-MD01-0010	Curation S9-178	17.6	1	ol	-
RC-MD01-0011	Curation S8-158	69.9	1	ol,hpx,K-fld	-
RC-MD01-0012	Purdue Univ.	136	2	ol,pl,FeNiS	AO6_Thompson
RC-MD01-0013	Curation S8-160	141	2	hpx,pl,lpx,FeS	-
RC-MD01-0014	Curation S9-161	61.3	1	lpx,pl	-
RC-MD01-0015	Curation S9-162	60.3	1	ol,lpx	-
RC-MD01-0016	Curation S6-163	69.8	1	lpx,pl	-
RC-MD01-0017	Curation S9-164	78.1	1	lpx,pl,hpx	-
RC-MD01-0018	Univ. Hawaii	76.3	1	ol,lpx	AO6_Ishii
RC-MD01-0019	Curation S9-165	80.9	2	ol,FeS,Al	-
RC-MD01-0020	Curation S9-167	97.2	2	ol,FeS	-
RC-MD01-0021	Curation S9-168	45.5	2	ol,FeS,pl,hpx	-
RC-MD01-0022	Curation S9-180	36	1	ol	-
RC-MD01-0023	Curation S9-169	64.5	2	lpx,FeS	-
RC-MD01-0024	Curation S10-183	32.6	1	ol	-
RC-MD01-0025	Purdue Univ.	31.7	2	lpx,ol,pl,FeNiS	AO6_Thompson
RC-MD01-0026	Curation S10-184	35.6	1	ol,hpx	-
RC-MD01-0027	Curation S9-176	92.4	2	ol,FeS,Al	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RC-MD01-0028	JAXA	160	2	ol,pl,FeNi	-
RC-MD01-0029	Curation S9-170	46.1	1	hpx,lpx	-
RC-MD01-0030	Curation S9-171	122	2	lpx,FeS,ol,FeNi	-
RC-MD01-0031	Purdue Univ.	55.1	2	lpx,ol,hpx,pl,FeS	AO6_Thompson
RC-MD01-0032	Curation S9-173	50.5	1	ol,hpx	-
RC-MD01-0033	Curation S9-174	55.7	2	lpx,pl,FeS	-
RC-MD01-0034	Curation SG07f3	43	4	Al,O	-
RC-MD01-0035	Curation S10-185	37.4	1	ol	-
RC-MD01-0036	JAXA	219	1	ol,hpx,K-fld	-
RC-MD01-0037	Curation S9-175	61.6	1	hpx,pl,lpx	-
RC-MD01-0038	Curation S10-186	25.1	1	ol,lpx	-
RC-MD01-0039	Curation S10-187	40.6	1	hpx,pl,lpx	-
RC-MD01-0040	Curation S11-213	11.3	1	ol	-
RC-MD01-0041	Curation S10-189	37.1	1	ol,hpx,pl	-
RC-MD01-0042	Curation S10-190	20.5	1	ol,pl,lpx,hpx,K-fld	-
RC-MD01-0043	Curation S10-191	29.2	1	ol,pl,lpx	-
RC-MD01-0044	Curation S10-192	42.8	1	ol	-
RC-MD01-0045	Curation S10-193	22.9	1	ol,pl,hpx	-
RC-MD01-0046	Curation S6-106	53	1	ol,lpx,pl	-
RC-MD01-0047	Curation S10-195	17.5	1	ol	-
RC-MD01-0048	Curation S10-196	28.7	2	ol,FeS	-
RC-MD01-0049	Curation S10-197	35.2	1	lpx,Al	-
RC-MD01-0050	Curation S10-198	29.9	1	ol	-
RC-MD01-0051	Curation S10-200	25.1	1	lpx,ol,pl	-
RC-MD01-0052	Curation S11-206	26.8	1	ol,pl	-
RC-MD01-0054	Curation S6-107	30.4	2	ol,FeS	-
RC-MD01-0055	Curation S6-109	24.5	2	hpx,pl,lpx,chl	-
RC-MD01-0056	Curation S6-111	57.3	2	FeS,lpx	-
RC-MD01-0057	Curation S6-113	63.9	2	ol,FeS	-
RC-MD01-0058	Curation S6-114	33.1	1	pl	-
RC-MD01-0059	Curation S11-207	16.1	1	pl	-
RC-MD01-0060	Curation S11-208	22.9	1	ol,pl	-
RC-MD01-0061	Curation S11-209	21.3	1	ol,pl,hpx	-
RC-MD01-0062	Curation S11-210	25.2	1	ol	-
RC-MD01-0063	Curation S11-212	28.8	2	ol,FeS	-
RC-MD01-0064	Curation S11-214	25.4	1	ol	-
RC-MD01-0065	Curation S11-215	21.4	1	lpx	-
RC-MD01-0066	Curation S6-118	21.2	1	hpx	-
RC-MD01-0067	Curation S6-119	34.9	4	Fe	-
RC-MD01-0068	Curation S7-121	35.5	1	ol	-
RC-MD01-0069	Curation S7-122	34.9	1	ol,Al	-
RC-MD01-0070	Curation S7-123	26.8	1	pl,hpx	-
RC-MD01-0071	Curation S7-124	19.3	1	ol,pl	-
RC-MD01-0072	LOST	30.4	1	ol,Al	-
RC-MD01-0073	Curation S7-125	22.9	2	lpx,hpx,FeNi	-
RC-MD01-0074	Curation S7-126	20.2	1	ol,pl	-
RC-MD01-0075	Curation SG07f4	36	4	Al,Fe,O	-
RC-MD01-0076	Curation S7-127	20.3	2	lpx,ol,FeS	-
RC-MD01-0077	Curation S7-128	22.2	2	ol,chl	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RC-MD01-0078	LOST	17.1	1	ol	-
RC-MD01-0079	Curation S7-131	15.6	1	ol	-
RC-MD01-0080	Curation S7-132	19.3	1	ol	-
RC-MD01-0081	Curation S7-133	39.4	1	ol,pl	-
RC-MD01-0082	Curation S7-134	34	1	pl,ol,hpx	-
RC-MD01-0083	Curation S7-136	17.3	1	ol,pl,K fld,Al	-
RC-MD01-0084	Curation S7-137	20	1	lpx,ol,hpx	-
RC-MD01-0085	Curation S6-116	70	2	ol,hpx,FeS	-
RC-MD01-0086	Curation S7-135	33.3	2	ol,lpx,pl,FeS	-
RX-MD03-0001	Curation SG32a3	46.1	1	ol	-
RX-MD03-0002	Curation SG32a4	48.6	1	ol	-
RX-MD03-0003	Curation SG32a5	42.9	2	FeS	-
RX-MD03-0004	Curation SG32b0	29.5	1	ol,lpx,pl	-
RX-MD03-0005	Curation SG32b1	44.9	1	ol	-
RX-MD03-0006	Kochi core Center	69.9	1	lpx	A07_Liu
RX-MD03-0007	Curation SG32b3	34.9	1	lpx,hpx,pl	-
RX-MD03-0008	Curation SG32b4	47.6	1	ol	-
RX-MD03-0009	Curation SG32b5	51.7	1	ol	-
RX-MD03-0010	Curation SG32c0	36.6	2	ol,chl,pl	-
RX-MD03-0011	Curation SG32c1	38.3	1	ol	-
RX-MD03-0012	Curation SG32c2	67.3	1	ol,pl	-
RX-MD03-0013	Curation SG32c3	41.8	1	ol	-
RX-MD03-0014	Curation SG32c4	44.9	2	FeS,ol,hpx	-
RX-MD03-0015	Curation SG32c5	56.8	1	ol	-
RX-MD03-0016	Curation SG32d0	70.3	1	pl,ol,hpx	-
RX-MD03-0017	Curation SG32d1	36.8	1	pl,lpx,ol,hpx,Al	-
RX-MD03-0018	Curation SG32d2	65.6	2	ol,FeS	-
RX-MD03-0019	Curation SG32d3	40.9	2	ol,lpx,pl,FeS	-
RX-MD03-0020	Curation SG32d4	29	1	ol,pl	-
RX-MD03-0021	Curation SG32d5	55.8	2	FeS,ol	-
RX-MD03-0022	Curation SG32e0	72	2	pl,ol,hpx,FeS,K fld,chl	-
RX-MD03-0023	Curation SG32e1	52.1	1	hpx,ol,K fld	-
RX-MD03-0024	Curation SG32e2	46.8	2	ol,FeS,pl	-
RX-MD03-0025	Curation SG32e3	39.9	1	ol,pl	-
RX-MD03-0026	Curation SG32e4	33.5	1	ol,pl	-
RX-MD03-0027	Curation SG32e5	34.9	1	ol,lpx,pl	-
RX-MD03-0028	Curation SG32f0	27.4	2	ol,pl,lpx,chl	-
RX-MD03-0029	Curation SG32f1	35.4	2	pl,FeS	-
RX-MD03-0030	Curation SG32f2	30.8	1	ol,lpx,pl	-
RX-MD03-0031	Curation SG32f3	39.3	1	ol,pl	-
RX-MD03-0032	Curation SG32f4	41.1	1	ol,pl	-
RX-MD03-0033	Curation SG32f5	39.4	2	ol,lpx,pl,FeS	-
RX-MD03-0034	Curation SG33a0	24.2	2	FeS	-
RX-MD03-0035	Curation SG33a1	40.3	1	lpx,ol	-
RX-MD03-0036	Curation SG33a3	40.4	2	FeS,ol	-
RX-MD03-0037	Curation SG33a2	30.9	2	ol,FeS,Al	-
RX-MD03-0038	Curation SG33a4	34.3	1	ol	-
RX-MD03-0039	Curation SG33a5	48.6	1	ol,pl,hpx	-
RX-MD03-0040	Curation SG33b0	35.4	1	ol,pl	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RX-MD03-0041	Curation SG33b1	43.4	2	hpx,ol,FeS	-
RX-MD03-0042	Curation SG33b2	32	1	hpx,ol	-
RX-MD03-0043	Curation SG33b3	49.4	1	pl,hpx	-
RX-MD03-0044	Curation SG05h1	41.7	3	C,O,Cl,Na,Mg	-
RX-MD03-0045	Curation SG33b4	60.4	2	ol,FeS	-
RX-MD03-0046	Curation SG33b5	35.1	1	ol	-
RX-MD03-0047	Curation SG33c0	110	2	FeS,ol	-
RX-MD03-0048	Curation SG33c1	46.4	1	ol,K-flt	-
RX-MD03-0049	Curation SG33c2	63.6	2	FeS,pl	-
RX-MD03-0050	Curation SG33c3	35.8	1	ol	-
RX-MD03-0051	Curation SG33c4	88.8	1	ol,hpx,pl	-
RX-MD03-0052	Curation SG33c5	38.7	1	ol	-
RX-MD03-0053	Curation SG33d0	55.1	2	ol,FeS	-
RX-MD03-0054	Kochi core Center	104	2	lpx,FeS	AO7_Liu
RX-MD03-0055	Curation SG33d2	40.7	1	hpx,lpx,ol,pl	-
RX-MD03-0056	Curation SG33d3	61.4	1	pl,ol	-
RX-MD03-0057	Curation SG33d4	40.4	2	lpx,hpx,ol,FeS	-
RX-MD03-0058	Curation SG33d5	58.6	2	lpx,ol,pl,FeS	-
RX-MD03-0059	Curation SG33e0	93.6	1	ol	-
RX-MD03-0060	Curation SG33e1	29.4	1	lpx	-
RX-MD03-0061	Kochi core Center	108	1	ol,hpx	AO7_Liu
RX-MD03-0062	Curation SG33e3	40.8	1	ol	-
RX-MD03-0063	Curation SG33e4	32.6	1	ol,pl,lpx,Al	-
RX-MD03-0064	Curation SG33e5	52.1	2	lpx,FeS	-
RX-MD03-0065	Curation SG33f0	38.9	1	ol	-
RX-MD03-0066	Curation SG33f1	41.1	2	ol,FeS,hpx	-
RX-MD03-0067	Curation SG33f2	32.4	1	ol	-
RX-MD03-0068	Curation SG33f3	28.2	1	ol,hpx	-
RX-MD03-0069	Curation SG33f4	34.1	1	lpx,hpx	-
RX-MD03-0070	Curation SG33f5	30.1	1	ol,pl,Al	-
RX-MD03-0071	Curation SG37a0	45.6	1	ol,pl	-
RX-MD03-0072	Curation SG37a1	30.3	2	ol,FeNi	-
RX-MD03-0073	Curation SG37a2	41.7	2	ol,pl,FeS	-
RX-MD03-0074	Curation SG37a3	52.7	1	ol,hpx	-
RX-MD03-0075	Curation SG37a4	38	1	ol	-
RX-MD03-0076	Curation SG37a5	36.2	1	ol,pl,Al	-
RX-MD03-0077	Curation SG37b0	69.4	2	ol,pl,FeS	-
RX-MD03-0078	Curation SG37b1	33.9	2	hpx,ol,pl,FeS	-
RX-MD03-0079	Curation SG37b2	51.1	1	lpx,hpx	-
RX-MD03-0080	Curation SG37b3	37.8	1	ol,pl	-
RX-MD03-0081	Curation SG37b4	31.9	1	ol,pl	-
RX-MD03-0082	Kochi core Center	76.2	2	ol,FeS	AO7_Liu
RX-MD03-0083	Curation SG37c0	28.2	1	ol,pl	-
RX-MD03-0084	Curation SG37c1	33.4	1	lpx,pl	-
RX-MD03-0085	Curation SG37c2	33.5	1	lpx,pl	-
RX-MD03-0086	Curation SG37c3	30	1	lpx,pl,ol	-
RX-MD03-0087	Curation SG37c4	55.5	1	lpx	-
RX-MD03-0088	Curation SG37c5	29.7	1	hpx,pl,Cl	-
RX-MD03-0089-01	Curation SG37d0	23.2	1	ol,pl,hpx	-



Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RX-MD03-0089-02	Curation SG37d1	19.7	1	ol	-
RX-MD03-0090	Curation SG37d2	84.8	2	ol,lpx,K-flid,FeS	-
RX-MD03-0091	Curation SG37d3	32.8	1	ol,pl,hpx	-
RX-MD03-0092	Curation SG37d4	57.1	1	lpx,pl,hpx	-
RX-MD03-0093	Curation SG37d5	44	1	pl,lpx	-
RX-MD03-0094	Curation SG37e0	33.3	1	pl,hpx	-
RX-MD03-0095	Curation SG37e1	39.9	2	ol,chl	-
RX-MD03-0096	Curation SG37e2	32.2	1	lpx,pl	-
RX-MD03-0097	Curation SG37e3	33.4	1	pl,lpx	-
RX-MD03-0098	Curation SG37e4	43.7	1	pl,hpx	-
RX-MD03-0099	Curation SG37e5	44	1	ol	-
RX-MD03-0100	Curation SG37f0	23.7	1	lpx,hpx	-
RX-MD03-0101	Curation SG37f1	47.2	2	lpx,pl,FeS	-
RX-MD03-0102	Curation SG37f2	17.4	1	ol,hpx,lpx,K-flid	-
RX-MD03-0103	Curation SG05h5	40.3	3	NaCl,C,N,O,ol,lpx	-
RX-MD03-0104	Curation SG37f3	25.9	1	lpx,pl	-
RX-MD03-0105	Curation SG37f4	147	2	ol,lpx,hpx,chl,K-flid	-
RX-MD03-0106	Curation SG37f5	29.9	1	lpx,pl,ol	-
RX-MD03-0107	Curation S2-27	33.6	1	ol,lpx,pl	-
RX-MD03-0108-01	Curation S2-30	17.8	1	ol	-
RX-MD03-0108-02	Curation S2-34	18.5	2	ol,FeS,lpx	-
RX-MD03-0109	Curation S2-36	44.3	1	ol	-
RX-MD03-0110	Curation S2-38	37.7	2	pl,Ca,FeS,K-flid,ol	-
RX-MD03-0111	Curation S2-23	54.8	1	hpx,ol	-
RX-MD03-0112	Curation S3-46	25.8	1	ol,pl	-
RX-MD03-0113	LOST	47.5	1	ol,lpx	-
RX-MD03-0114	Curation SG07h2	36.3	4	Al,O,C,ol	-
RX-MD03-0115	Curation S2-26	88.4	1	Si,O,C,pl	-
RX-MD03-0116	LOST	31.6	1	ol	-
RX-MD03-0117	Curation S3-51	43.1	1	ol,pl	-
RX-MD03-0118	Curation S3-52	24.8	1	ol,lpx	-
RX-MD03-0119	Curation S3-54	22.8	2	lpx,FeS	-
RX-MD03-0120	Curation S3-59	35.3	1	lpx,pl	-
RX-MD03-0121	Curation S4-65	33.4	1	hpx,ol	-
RX-MD03-0122	Curation S4-72	15.3	2	FeS,hpx,Cu	-
RX-MD03-0123	Curation S4-73	23.7	1	hpx,lpx	-
RX-MD03-0124	Curation S4-77	36.6	1	ol	-
RX-MD03-0125	Curation S4-80	27.3	2	FeS,ol	-
RX-MD03-0126	Curation S5-81	72.2	2	FeS	-
RX-MD03-0127	Curation S5-82	79	2	lpx,chl,Al	-
RX-MD03-0128	Curation S5-83	63.3	1	ol,hpx,pl	-
RX-MD03-0129	Curation S5-84	37.8	1	ol,pl	-
RX-MD03-0130	Curation S5-85	34.9	1	pl	-
RX-MD03-0131	Curation S5-87	24.2	1	ol	-
RX-MD03-0132	LOST	33.5	1	ol,pl	-
RX-MD03-0133	Curation S5-88	36.1	1	lpx,pl	-
RX-MD03-0134	Curation S5-89	37.6	1	ol	-
RX-MD03-0135	Curation S5-90	51.1	1	hpx	-
RX-MD03-0136	Curation S5-91	130	1	ol,pl	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RX-MD03-0137	Kochi core Center	106	1	ol,K-flt	AO7_Liu
RX-MD03-0138	Curation S5-92	36.9	1	ol,lpx,hpx,pl	-
RX-MD03-0139	Curation S5-93	24.1	2	ol,hpx,FeS	-
RX-MD03-0140	Curation S6-101	25	1	hpx,lpx,ol	-
RX-MD03-0141	Curation S6-102	30.6	1	lpx	-
RX-MD03-0142	Curation SG26a0	17.6	1	lpx,pl,K-flt	-
RX-MD03-0143	Curation SG26a1	27.8	1	ol,Al	-
RX-MD03-0144	Curation SG26a3	25.4	1	ol	-
RX-MD03-0145	Curation SG26a4	23.2	1	lpx,ol	-
RX-MD03-0146	Curation SG26a5	33.6	1	ol	-
RX-MD03-0147	Curation SG26b0	56.6	2	ol,FeNiS,pl	-
RX-MD03-0148	Curation SG26b1	32.3	1	pl,hpx,pl	-
RX-MD03-0149	Curation SG26b2	38.6	1	pl,Ca,Fe	-
RX-MD03-0150	Curation SG26b3	38.3	1	ol,pl,lpx,Ca	-
RX-MD03-0151	Curation SG26b4	75.6	1	ol,lpx,Al	-
RX-MD03-0152	Curation SG26b5	36.7	1	lpx,pl	-
RX-MD03-0153	Curation SG26c0	24.5	1	ol	-
RX-MD03-0154	Curation SG26c1	28.1	1	pl,ol	-
RX-MD03-0155	Curation SG26c2	28.1	1	lpx,ol	-
RX-MD03-0156	Curation SG26c3	50.3	1	ol,Al	-
RX-MD03-0157	Curation SG26c4	33.4	1	ol,Al	-
RX-MD03-0158-01	Curation SG26c5	29.7	1	lpx,ol	-
RX-MD03-0158-02	Curation SG26d3	27.1	1	lpx,hpx	-
RX-MD03-0158-03	Curation SG26c5	11.2	1	ol	-
RX-MD03-0159	Curation SG26d0	56.6	2	lpx,FeS,ol,hpx	-
RX-MD03-0160	Curation SG26d1	32.7	1	ol	-
RX-MD03-0161	Curation SG26d2	24.3	2	ol,pl,FeS	-
RX-MD03-0162	Curation SG26d4	36.5	1	ol	-
RX-MD03-0163	Curation SG26d5	49.8	2	ol,FeS	-
RX-MD03-0164	Curation SG26e0	21.6	2	FeS,lpx,pl	-
RX-MD03-0165	Curation SG26e1	30.5	1	ol	-
RX-MD03-0166	Curation SG26e2	26.6	1	ol	-
RX-MD03-0167	Curation SG26e3	28.7	1	pl,ol,Ca	-
RX-MD03-0168	Curation SG26e4	24.3	1	ol	-
RX-MD03-0169	Curation SG26e5	18	1	lpx	-
RX-MD03-0170	Curation SG26f0	21	1	ol	-
RX-MD03-0171-01	Curation SG26f1	32.6	1	ol,Al,Fe,Cr,Zn	-
RX-MD03-0171-02	Curation SG26f2	25.3	1	ol,Al	-
RX-MD03-0172	Curation SG26f3	38	1	ol,pl	-
RX-MD03-0173	Curation SG26f4	21.8	2	ol,FeS	-
RX-MD03-0174	Curation SG26f5	22.6	1	lpx,ol,pl	-
RX-MD03-0175	Curation SG29a0	16	1	ol	-
RX-MD03-0176	Curation SG29a1	25.6	1	lpx	-
RX-MD03-0177	Curation SG29a2	24	1	ol	-
RX-MD03-0178	Curation SG29a3	44.9	1	ol,Al	-
RX-MD03-0179	Curation SG29a4	31.1	1	hpx,ol,pl	-
RX-MD03-0180	Curation SG29a5	39.7	1	hpx,ol,Ca,C,O	-
RX-MD03-0181	Curation SG29b0	22.7	1	pl,lpx,ol	-
RX-MD03-0182	Curation SG29b1	34.9	1	ol,hpx,pl	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RX-MD03-0183	Curation SG29b2	37.7	1	ol	-
RX-MD03-0184	Curation SG29b3	28	2	FeS,Sn	-
RX-MD03-0185	Curation SG29b4	26.4	1	hpx	-
RX-MD03-0186	Curation SG29c0	34.7	1	ol,pl	-
RX-MD03-0187	Curation SG29c1	25.5	1	ol,pl	-
RX-MD03-0188	Curation SG29c2	32	1	ol	-
RX-MD03-0189	Curation SG29c3	29.1	1	ol	-
RX-MD03-0190	Curation SG29c4	22.9	1	ol	-
RX-MD03-0191	Curation SG29c5	33.4	1	pl	-
RX-MD03-0192	Curation SG29d0	40.3	1	ap,ol,hpx	-
RX-MD03-0193	Curation SG07g6	25.6	4	Al,Si,K,Na,O,C	-
RX-MD03-0194	Curation SG29d1	21.5	1	ol	-
RX-MD03-0195	Curation SG29d2	28.9	1	ol,hpx,pl	-
RX-MD03-0196	Curation SG29d3	22.3	1	ol,pl	-
RX-MD03-0197	Curation SG29d4	29.9	1	pl,ol	-
RX-MD03-0198	Curation SG29d5	25.4	2	ol,hpx,FeS	-
RX-MD03-0199	Curation SG29e0	29.5	1	ol,pl	-
RX-MD03-0200	Kirkclareli Univ.	85.8	1	ol,pl	AO8_Yesiltas
RX-MD03-0201	Curation SG29e2	29.7	1	ol,pl	-
RX-MD03-0202	Curation SG29e3	15.9	1	ol,pl	-
RX-MD03-0203	Curation SG29e4	18.6	1	ol,pl,lpx	-
RX-MD03-0204	Curation SG29e5	32.1	1	lpx,ol	-
RX-MD03-0205	Curation SG29f0	33.8	1	ol	-
RX-MD03-0206	Curation SG29f2	27	1	ol	-
RX-MD03-0207	Curation SG29f3	26.7	2	ol,FeS	-
RX-MD03-0208	Curation SG29f4	25.3	1	lpx,ol	-
RX-MD03-0209	Curation SG29f5	34.5	1	ol,K fld	-
RX-MD03-0210	Curation SG33d1	37.5	1	ol,pl	-
RX-MD03-0211	Curation SG33e2	25.1	1	hpx,ol	-
RX-MD03-0212	Curation SG32b2	23.5	1	ol,ap	-
RX-MD03-0213	Curation SG37b5	21.5	1	lpx,pl	-
RX-MD03-0214	Curation S6-103	31.7	1	ol	-
RX-MD03-0215	Curation S11-217	35.1	1	pl,ol	-
RX-MD03-0216	Curation S11-216	45.8	1	hpx	-
RX-MD03-0217	Curation S11-218	19.9	1	pl,ol	-
RX-MD03-0218	Curation S11-219	22.5	1	ol	-
RX-MD03-0219	Curation S12-221	22.4	1	lpx,ol,hpx	-
RX-MD03-0220	Curation S12-222	26.3	2	ol,FeNi	-
RX-MD03-0221	Curation S12-223	30	1	lpx,ol,pl,hpx	-
RX-MD03-0222	Curation S12-224	19.7	1	pl	-
RX-MD03-0223	BROKEN	18.5	2	FeS,chl	broken during manipulation, and left on the slide
RX-MD03-0224	Curation S12-225	29.1	1	ol,lpx	-
RX-MD03-0225	Curation S12-226	23.7	1	ol,lpx	-
RX-MD03-0226	Curation S12-227	26.6	1	ol,pl	-
RX-MD03-0227	Curation S12-228	23.1	1	ol,pl,lpx	-
RX-MD03-0228	Curation S12-229	15	1	ol,pl	-
RX-MD03-0229-01	Curation S12-230	13.9	1	ol,pl,lpx	-
RX-MD03-0230	Curation S12-231	29	1	ol,lpx	-
RX-MD03-0231	Curation S12-233	21.8	2	lpx,pl,chl	-

Sample name	Status	Size( $\mu\text{m}$ )	Category	Phase	label
RX-MD03-0232	LOST	22.2	1	lpx,hpx	-
RX-MD03-0233	Curation S12-235	24.7	1	lpx	-
RX-MD03-0234	Curation S12-236	22.6	2	ol,chl	-
RX-MD03-0235	Curation S12-238	23.9	2	lpx,ol,chl	-
RX-MD03-0236	Curation S12-239	26.5	1	ol	-
RX-MD03-0237	Curation S12-240	29.6	1	ol	-
RX-MD03-0238	Curation S13-245	26.6	2	FeS,lpx,ol	-
RX-MD03-0239	Curation S13-241	22.5	1	ol,hpx	-
RX-MD03-0240	Curation S13-243	12.9	1	ol	-
RX-MD03-0241	Curation S13-244	21.1	1	ol,Al	-
RX-QD01-0001	Curation SG32a0	67.6	1	hpx,ol,lpx,pl,K-flt	-
RX-QD01-0002	Curation SG32a1	38.1	1	lpx	-
RX-QD01-0003	Curation SG32a2	62.3	2	ol,FeS	-

Table 2. A summary of sample distributions to research communities via the AO, and to NASA

Fiscal Year of JAXA	The number of distributed particles				
		For AO		For NASA	
2012	AO1	65	#2	10	
2013-2014	AO2	51	-	-	
2015	AO3	49	#3	5	
2016	AO4	35	#4	5	
2017	AO5	9	-	-	
2018	AO6	16	#5	*	
2019	AO7	17	-	-	
2020	AO8	9	-	-	
2021	AO9	0	-	-	
2022	AO10	0	-	-	

Asterisk indicates that some particles on a Teflon spatula was distributed to NASA.

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