

12/02/2020

Core 73002; Pass 2; Interval 16; Range: 11 to 10.5 cm (= core depth of 7.5 to 8.0 cm)

Charis, Juliane, Ryan

Marking interval boundaries: uneventful (#797)

N-W:

Starting on W side, soil is light in color, very loose, collapsing. Grain sizes are mixed from coarse to fine and incredibly loose all around also going towards NS-line.

Clast that fell in last interval (15) turns out to be Clast A (4-10mm). W-edge of interval 17 collapsed when Clast B was encountered at W-edge (~2mm into core towards NS-line).

Soil around NS-line is a bit more cohesive but soil comes apart as clods rather than finer grains.

E of NS-line Clast C is encountered, it sits right on top, to the left (west) of BAC#4. Clast C looks very light in color. Scraping BAC#4 with spatula to get soil off its top (#798, 799).

N-E:

Scraping BAC#4 on E side. E-edge is darker again, super dense, very fine grained, getting lighter towards W and it gets coarser grained too (#799).

Decided to pull out BAC#4 (= Clast A >10mm) (#801, 802, 804, 805). However, in hindsight it might have been easier to leave it, it left a cavity and it makes it harder to dissect without soil falling into it.

Sieving:

Clast A-C sieved individually. Clod broke off of Clast A and part of Clast A (>10mm) broke off (now Clast A₁₊₂). After sieving picked up with tweezers and placed into Al-cup.

Soil was sieved, very loose, falling through sieve easily. Tapping of clasts with tweezers in sieve to determine if soil clods. Very few clods. Remaining clasts transferred into Teflon lid with tweezers. Sorted into fraction. Transferred named clast from Al-cups into Teflon disk. Then clasts transferred into container (or Al-cups for named clasts) and weighed.

One small grain (1-2mm) looks very green and translucent → olivine!!!??

Full core with colored bar recorded (#818, 819, 821, 839, 840, 842, 843, 844)

Oriented Clast A (>10mm) #806, 808, 809, 811, 812, 813, 816

Clasts:

>10mm: Clast A: chunky and dusty, broke when Charis scrapped it with tweezers.

4-10 fraction: 3 clasts; Clast A: part broke, edgy; Clast B sharp edges, Clast C rounded. All of them light gray

2-4 fraction: mostly rounded, one is dark gray

1-2 fraction: Mostly rounded, some have sharp edges. A few have dark patches and coatings. One grain appears green-brown and translucent = Olivine?

SAMPLE INFO (#822, 823, 824, 826, 828, 829, 830, 832, 833, 836, 837, 845)

Fraction (mm)	Particles (n)	Mass (g)	Container #	Gross-weight (g)	New generic (73002,xxxx)
>10	1	2.943	9_22712		,1059
4-10	3	0.393 (calc)	9_22713		,1060
2-4	13	0.064	9_22714	16.222	,1061
1-2	38	0.090	9_22715	16.064	,1062
<1	fines	2.157 (calc)	9_22711	18.462	,1058

Individual > 4mm clasts (named clasts):

Fraction (mm)	Clast Name	Mass (g)
>10	A	2.943
4-10	A ₁₊₂	0.215
4-10	B	0.098
4-10	C	0.080