

11/23/2020 afternoon

Pass 2; Core: 73002; Interval 5; Interval-Range: 16.5 – 16.0 cm; Core depth: 2.0cm - 2.5cm (below surface)

People present in lab: Charis, Juliane

Begin with marking interval boundaries for interval 5 (on 11/19/2020) then fire alarm went off and we lost N₂ gas so we left. 11/23/2020, marks are still there, core still good (#385).

N-W:

Started scooping at Western edge, very loose had collapsed during marking (#386). Clast A encountered at plate level right at the W-edge about 4-5mm in from edge towards NS line. Soil is lighter in this interval. Somewhat white speckly but not as much as interval before. Whole E-side collapsed into interval 6. Continued collapse towards NS-line, very loose not cohesive at all. Collapsed area is more speckled than before. Clast B fell out right behind that area, it is nice and rounded. Cavity left behind, Clast B half way down towards plate level, about 1cm in towards NS-line from edge. At NS-line: it is darker, grain size is finer and slightly more cohesive. Surface is still lighter though and collapse. Passed NS-line: equally dark, fine grained but loose again. Going towards E: white speckles are back, about $\frac{3}{4}$ in from W-edge ($\frac{1}{4}$ left towards E edge) it is really loose, not very dense (opposite of dense). Feels like scooping dirt. Once past that area (a few mm more towards E), it gets denser again (feels like there is more material present), has more white particles too. E-edge of interval 6 collapsed (#0387).

N-E:

Started scooping from Eastern tip. Very loose, dark material.

Sieving:

Clast A (broke into two clasts) and then B sieved, picked up with tweezers and put in Al-cup. The fines were sieved after, very loose, just falling through easy, very little clinging to side walls. Lots of clasts again, not as many clasts, quite a few turned out to be clods when poked with tweezers. However, this interval has a lot more bigger clasts, not so many 1-2mm clasts but lots of 4-10 and 2-4mm.

Tapping of clasts with tweezers in sieve to determine if soil clods. Then transfer of clasts into Teflon lid with tweezers. Sorted into fraction.

Full core with colored bar recorded (# 388, 403-405, 407, 410, 413, 414)

Clasts:

4-10 fraction: Clast A is edgy and has a larger white patch; Clast B: elongated, edgy, gray, Clast C subrounded, dark gray; Clast C subrounded with a very sharp edge, lighter gray; Clast D +E are subrounded to edgy, dark gray

2-4 fraction: lots of agglutinates, the rest is dark gray except one lighter gray clast

1-2 fraction: several agglutinates, some light gray clasts, and a few dark gray clasts.

SAMPLE INFO (#390-395, 397, 400-402)

Fraction (mm)	Particles (n)	Mass (g)	Container #	Gross-weight	New generic (73002, xxx)
>10	-	-			
4-10	5	0.244 (calc)	9_22670		,1017
2-4	13	0.094	9_22671	16.342	,1018
1-2	19	0.054	9_22672	16.250	,1019
<1 fines		2.362 (calc)	9_22669	18.789	,1016

Fraction (mm)	Clast Name	Mass (g)
4-10	A1	0.021
4-10	A2	0.017
4-10	B	0.098
4-10	C	0.050
4-10	D	0.033
4-10	E	0.025