12/15/2020

Core 73002; Pass 2; Interval 27; Range: 5.5 to 5.0 cm (= core depth of 13.0 to 13.5 cm)

Charis, Juliane, Andrea

Note: We exchanged all tools before we started dissecting this interval and started with a clean set. This includes Teflon disk, sieve, spatula, tweezer, etc.

Marking interval boundaries: Could only mark W side and part of E side as SBAC-P1 is now poking through the surface level of this interval.

N-W:

We are further getting into the area where pass 1 dipped slightly below plate level (=surface level of pass 2). Starting to scoop W-edge, soil is very loose, soil has a mix of grain sizes of fine and coarse, light in color. Lots of slumping is occurring. A clast fell from surface level close to W-wall. Something protrudes from Pass 3 into W-wall of this pass at plate level. W-wall just collapsed into next interval, sigh….

NS-line area is the same: soil is light in color, mixed grain sizes of fines and coarse, lose soil and collapsing occurring. Clast at plate level at NS-line protrudes into Pass 3. Another clast encountered between W-wall and NS-line in the cross section wall of interval 28.

Lots of large clods around NS-line and at SBAC-P1, cloddy soil collapses a lot. Soil is very loose around SBAC-P1, same mix of grain sizes. Scraping the soil off of SBAC-P1 (# 1215, 1216). SBAC-P1 and BAC#1P1 are touching.

N-E:

Cleaning up around SBAC-P1. Recovered clast that fell during interval 26 turns out to be Clast A. E-side is just as loose as W-side. Big clast/clod right at E-edge encountered that protrudes into next interval (#1218). Turns out to be a clod, Charis got half of it, the half that stuck into this interval. But the rest collapsed that was protruding into next interval, so we are saving it for the next interval.

Material right up against SBAC-P1 and E-side is very cohesive and very fine grained. But right at E-edge the grain size is mixed. Only right up against the SBAC-P1 do we see/feel a change in the soil properties.

Sieving:

Clast A sieved, Clast A escaped Al-cup and rolled under Al-foil, was picked up with tweezers, sieved, and placed back into Al-cup and weighed.

Soil was sieved, going through sieve super easy, not sticky at all. More smaller clasts it seems like than last interval. Tapping of clasts with tweezers in sieve to determine if soil clods. Clasts transferred onto Teflon lid with tweezers. Sorted into fraction. Then clasts transferred into container (or Al-cups if named clasts) and weighed.

Full core with colored bar recorded (# 1221, 1222, 1223, 1224, 1238, 1240, 1243, 1245, 1246, 1248, 1249, 1250)

Clasts:

4-10 fraction: rounded, homogeneously gray

2-4 fraction: two rounded, two edgy with one of them having black patches

1-2 fraction: mostly edgy, quite a few with back patches, some clasts are very dark gray.

SAMPLE INFO (# 1225-1227, 1230, 1231, 1233, 1234-1237)

Fraction (mm)	Particles (n)	Mass (g)	Container #	Gross-weight (g)	New generic (73002,xxxx)
>10	-				
4-10	1	0.066	9_22755		,1102
2-4	4	0.047	9_22756	16.270	,1103
1-2	23(24-check images)	0.078	9_22757	15.948	,1104
<1	fines	2.029 (calc)	9_22754	18.351	,1101

Individual > 4mm clasts (named clasts):

Fraction (mm)	Clast Name	Mass (g)
4-10	A	0.066