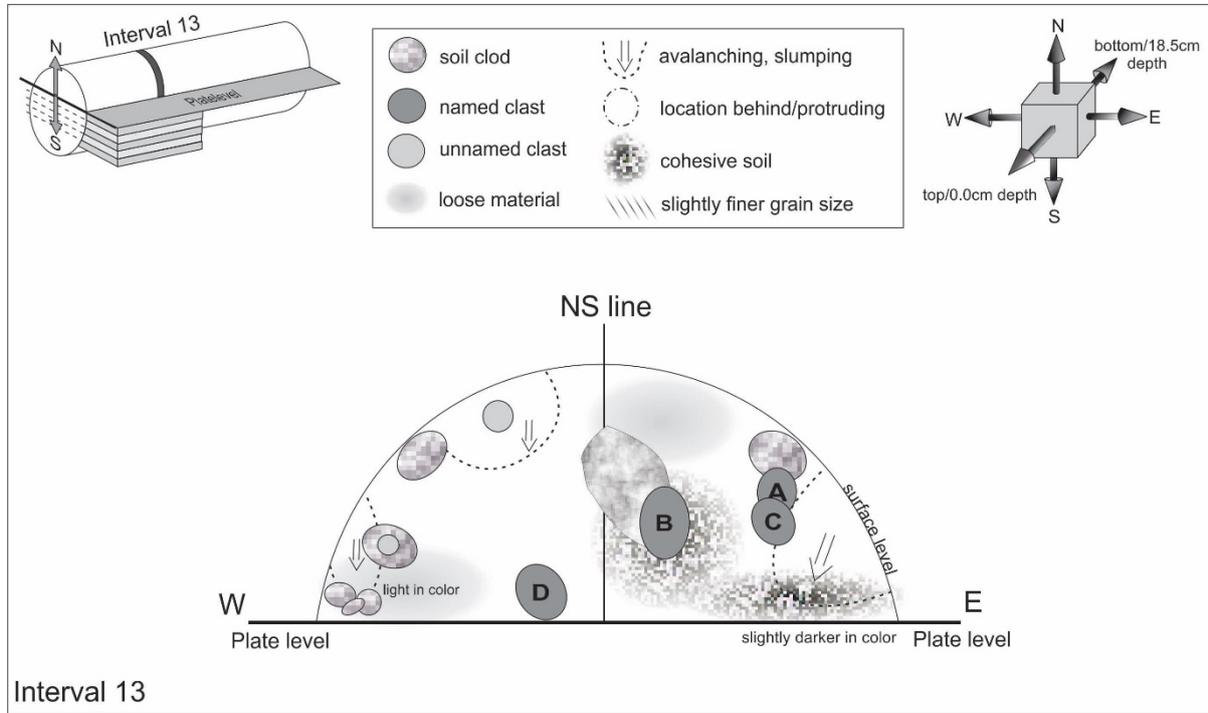


12.20.2019

Pass 1 Interval 13 Interval-Range: 12.5 to 12.0 cm Core depth: 6.0 – 6.5 cm (below surface)

People present in lab: Andrea, Charis, Jess, Zoë



Something big (clast/clod) left in the center of the core @ due N from dissection of interval #12, at 12.8cm into interval #13 (~ photo #5456).

#### N-W:

Started the dissection at the Western tip at 12.5cm and worked towards 12.0cm. Then dissected towards the N from W. The soil is very loose and not sticky, light in color and a few small soil clods also light in color were recovered.

Clod of material rolled out on the W limb (#5474), light in color and was smooshed.

Avalanche of clods (#5481, 5482), small clast <4mm, light colored and rounded, it came from the W limb from 12.2cm.

12.5-12.0 NW soil clod right at the surface same color as soil. It broke into pieces when tried to excavate around it.

Avalanche revealed a clast which was light in color and round. Picked up with tweezers and it was ~3mm in long dimension. It was found N of NW ~2mm below the surface (#5504, 5505).

Continue to dissect from W to N clearing up slumped material

Dissecting from W to NE slope at surface around the bulge.

## N-E

Dissecting from East.

Moving from E limb the soil is dark than on the W. Clearing up the flank material and it is a little more cohesive than on the W.

Clod/clast fell from 12.0cm around the NE corner at the surface, dark colored clod.

Halfway down the core E of NE, between the bottom and top of the interval, a clast with no orientation rolled out (#5586). It became **clast A** and it was rounded and light in color. Picked up with the tweezers.

Dissection continued from the E towards the center, dissecting around the bulge.

Soil on the E side around the bulge is cohesive and have to saw at it with the spatula to get it loose (this is similar to pass 1 interval 4). The soil on the surface, however, is more loose. The soil in the center and on the surface is the same darker color (than on the W side).

As dissected the interval behind the bulge part of the E-astern part of bulge came loose (#5630, see sketch). Removed clast with tweezers, the clast fell during lift out and the orientation was lost. The clast broke into two pieces, both largish pieces. They don't look basaltic, maybe impact melt? They are dark, angular, and kind of flat. Looks glassy in places. ~1cm in the longest dimension and became **clast B**

Dissection continued around the bulge.

A clast fell from the surface that belongs to Interval 14 (#5682).

The bulge (which is actually a clast) is loosened, and removed with tweezers. The clast has an orientation, and became **clast C** (#5686, 5695). Its location was at the N and 2-3 mm from the base of the interval. The clast is light in color (see sketch).

Speculated that the next interval will be very loose. As Clast C was removed, the soil moved to fill the holes left by clasts B and C.

Continue dissecting the fallen material on the E and central side.

A clast was uncovered W of NS at the base (#5745). The clast was removed with tweezers and has an orientation. The clast was removed at the 12.0 cm mark. The clast becomes **clast D** and is angular. After sieving, clast D broke apart during transfer to Al cup (#5819). It has a different shape compared to the original pictures.

NOTE: the orientation "N1" on the orientation cube depicts the orientation direction of the clasts.

Dissection is continued to clean up the interval.

Clast B was not sieved because it was too fragile.

The fines and other clasts were sieving quickly despite their dark color.

**SAMPLE INFO**

Fraction (mm)	Particles (n)	Mass (g)
>10	1 (B)	0.164
4-10	3	0.444
2-4	4	0.061
1-2	14	0.053
<1 fines		1.473

Fraction	Name	Mass (g)
4-10	A	0.048
4-10	C	0.333
4-10	D	0.062
>10	B	0.164

Sample images: #5833, 5844, 5847, 5803, 5805, 5828. Full core imaged with color bar:  
#5830, 5831, 5837, 5839, 5849.