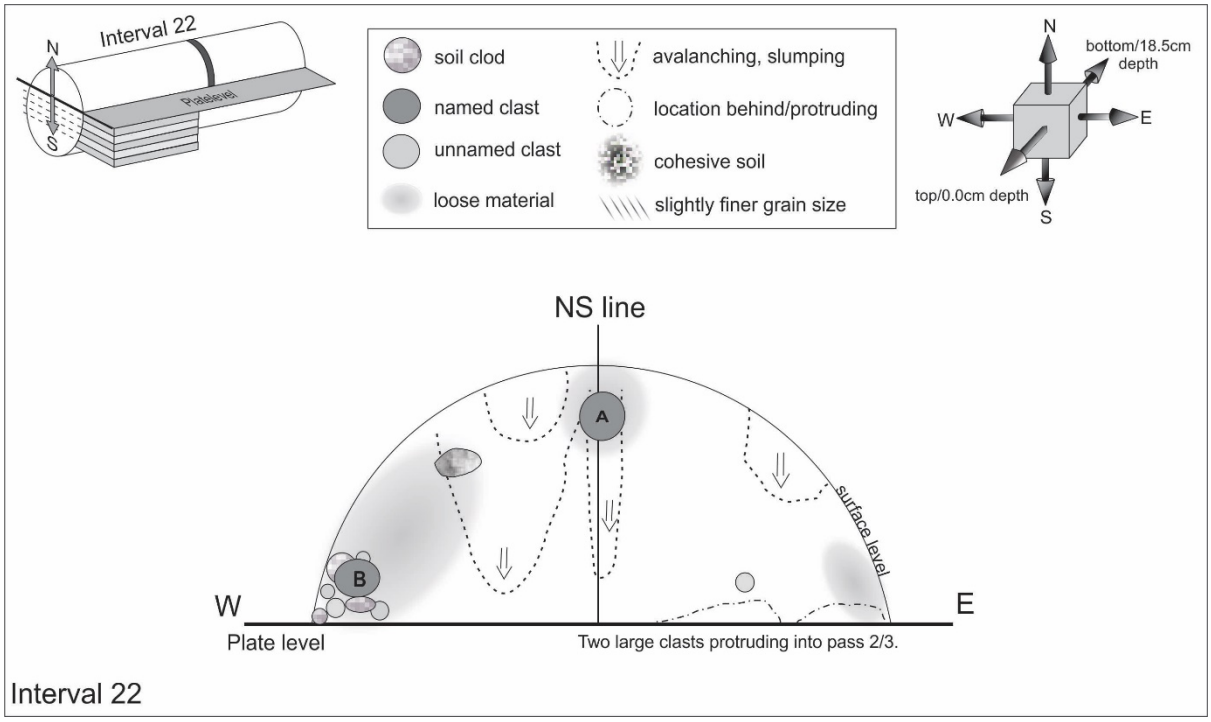
01.29.2020 afternoon

Pass 1 Interval 22 Interval-Range: 8.0 – 7.5cm Core depth: 10.5 – 11.0 cm (below surface)

People present in lab: Charis, Juliane, Natalie, Cato



Marking interval boundaries (#7320); Very loose, barely touching the core and still the core at N-surface would slide and move. Material would cascade down during moving the dust pan to the east side. When marking the east side at the NS-line a massive collapse occurred (#7322, 7323, 7333).

N-W:

Starting to scoop off the collapsed material. Very dusty material, contained large clast (Clast A) which looks to be part of breccia possible, because it has light and dark areas. During moving it flipped and it looks like it might have been part of a larger piece as it is angular on one end and rounded on the other side. Clast was very dusty. Size is about 0.5cm. Location was at 8.0-7.5cm. It was located at the surface just east of NS-line. Extended down to 3-4mm above plate level (#7333).

Started scooping at Western tip, just as loose as interval 21, but potentially more clods/clasts in the 2-4mm fraction range.

At 1mm below surface at WWN a clast is located (Clast B) that has a clod right above it which was tried to be removed first but collapsed (#7373). Clast B extends from 8.0-7.7cm. Clast looks slightly porous/vesicles (?)

Large clod encountered at WNW at surface, material cascade as it came out. This interval is really loose, no change in cohesion or color since the last couple intervals. During scooping more material keeps cascading down from the NS-line everywhere (#7408; 7412). Lots of the slumping seems to now come from the next interval (23) so we stopped and switched sides.

N-E:

Started scooping from Eastern tip. Very loose soil. Still obstacle/clast under surface still noticeable. Seems like furthest point East is 8.0cm and seems to be located E-W diagonal into the next intervals. More collapse from N-surface during scooping. Working around the large clast under the surface feels like a ramp leading up and towards the bottom of the core.

<u>Sieving:</u>

Each clast (A and B) was sieved individually and then placed Al-cups (Clast A: #7360; B: #7387).

Next soil was sieved, it is somewhat sticky but as easy as interval 21. Not as many small clasts/clods as yesterday. Mass for fines is slightly lower than usual, but that is to be expected since there is a larger obstacle that protrudes out slightly and takes up volume.

Tapping of clasts in sieve to determine soil clods. Then transfer of clasts into Teflon lid with tweezers. Sort into fraction, added clast A and B.

Full core with colored bar recorded (#7542, 7546, 7575, 7581)

4-10 fraction: Clast A = sub-rounded but angular from the side. One side has a black glass coating. Clast B = sub-rounded, slightly elongated, contains white clasts and potentially black clasts which could also be vesicles instead.

2-4 fraction: majority is subangular, one sub-rounded, one sub-angular with black coating.

1-2 fraction: mixture of sub-rounded and sub-angular, one is very rounded with very white spots.

SAMPLE INFO (#7551, 7593, 7627, 7618, 7570, 7563, 7557)

Fraction (mm)	Particles (n)	Mass (g)	Container #	Gross-weight
>10	-			
4-10	2		9_22594	
2-4	5	0.057	9_22595	16.118
1-2	10	0.033	9_22596	16.089
<1 fines		1.414 (calc)	9_22593	17.599

Fraction	Name	Mass (g)
4-10	Clast A	0.097
4-10	Clast B	0.077