Summit Melt Pit Stratigraphy

**Aug 17, 2019: Snow Pit by MSF**

0-5 cm new snow/stellar dendrites

5-6.4 cm ice layer

6.4.-10.6 hard/rounds

10.6-14.0 soft snow

14.0-16.2 crust

16.2-22.9 hard/wind pack

22.0-25.4 hoar

**Aug 18, 2019: Snow Pit by MSF**

0-5 cm, new snow

@5 cm, 1 mm continuous ice layer

5-8 cm, ice layer/crust

@8 cm, 1 mm continuous ice layer

8-9 cm, hoar: small, striated cups

9-13 cm, mixed/rounded, small grains, 1 mm dia.

13 cm, thin IL/crust

13-33 cm, mixed consolidated rounds, 1mm diameter

33-35 cm, crust

35-42 cm, hoar, elongated striations

**NIR Photos:**

IMG\_0447 Close up of crust/IL complex at 5-6 cm which consists of a thin, ~1 mm thick, fairly continuous ice layer, about 1 cm of crust/melt freeze grains, and a second, bottom, ~ 1 mm thick continuous ice layer (apologies, there was a scale in my notebook that doesn’t show up in NIR).

IMG\_0458/IMG\_0459 further zoom in of the crust from 5-6 cm depth

IMG\_0473 close up of pit…harder to see the crust in situ, but there is a bit of an indication of it in this photo at about 4cm depth as the faint white line.