

| Location: | Co | | Site: | Sunset | Date: | 2024/12/12 | | | |
|-----------------------|-----------------|--|--|---|--|---|----------------------|----------------------------------|---|
| Time: | 0843 | | Observers: | Eric, Eric | | | | | |
| Precip Rate | None | Very Light (0.5 cm/hr) | Light (1 cm / hr) | Moderate (5 cm / hr) | Heavy (10 cm / hr) | Depth (cm) | SWE (mm) | Density (kg/m³) | Evidence of melt resulting in SWE loss? (Y/N) |
| Precip Type | Rain | Snow | Graupel | Hail | Rain/Snow | Sample A | 2.8 | 7 | 132 |
| Sky | Clear | Few <th>Scattered<br (>="" 1="" 2="" 4-1="" of="" sky)<="" th=""/><th>Broken<br (>="" 1="" 2="" of="" sky)<="" th=""/><th>Overcast (complete-cover)</th><th>Sample B</th><th>6.8</th><th>9</th><th>132</th></th></th> | Scattered <th>Broken<br (>="" 1="" 2="" of="" sky)<="" th=""/><th>Overcast (complete-cover)</th><th>Sample B</th><th>6.8</th><th>9</th><th>132</th></th> | Broken <th>Overcast (complete-cover)</th> <th>Sample B</th> <th>6.8</th> <th>9</th> <th>132</th> | Overcast (complete-cover) | Sample B | 6.8 | 9 | 132 |
| Wind | Calm (0 mph) | Light (1-16 mph) | Moderate (17 - 25 mph) | Strong (26 - 38 mph) | Extreme <th>Ground condition</th> <th>Frozen</th> <th>Moist</th> <th>Saturated</th> | Ground condition | Frozen | Moist | Saturated |
| Tree Canopy | No trees | Sparse (5 - 20%) | Open <th>Closed<br (>="" 70%)<="" th=""/><th>Ground vegetation</th><th>Smooth<br (<="" 5="" cm)<="" th=""/><th>Rough (5 - 20 cm)</th><th>Rugged<br (>="" 20="" cm)<="" th=""/><th>Deadfall</th></th></th></th> | Closed <th>Ground vegetation</th> <th>Smooth<br (<="" 5="" cm)<="" th=""/><th>Rough (5 - 20 cm)</th><th>Rugged<br (>="" 20="" cm)<="" th=""/><th>Deadfall</th></th></th> | Ground vegetation | Smooth <th>Rough (5 - 20 cm)</th> <th>Rugged<br (>="" 20="" cm)<="" th=""/><th>Deadfall</th></th> | Rough (5 - 20 cm) | Rugged <th>Deadfall</th> | Deadfall |
| Instrument | Y/N | SN | Instrument | Y/N | SN | Additional Comments | | Height of Ground Vegetation (cm) | |
| Digital LWC | N | | Snow Scope | Y | 234 | Pcp | | | |
| Stratigraphy pictures | V | | Lyte Probe | N | | Weather | | | |
| Standard ram | V | | SMP | N | | | | | |
| Powder Ram | Y | | Force Ram | Y | | Pit | | | |
| Slush Ram | N | | Force Snow Scope | Y | 234 | | | | |
| HS Transects | Y | | Snow Scope Transects | N | | Hardness | | | |
| Pit Pictures | Y | | SSA / NIR Box | N | | | | | |
| Other | | | | | | HS 45cm @ stakes | | | |
| | | | | | | Misc | | | |

Ram Penetrometer Field Data Sheet

| | | | | |
|--------------------------------|-----------------------|---------------------------|----|------|
| Location: | <i>CO</i> | Tube weight | T | kg |
| Site: | <i>SLMET</i> | Hammer weight | H | kg |
| Associated pit/transect/point: | <i>SLMET 20241217</i> | Number of falls | n | |
| Date: | <i>20241217</i> | Fall height | f | cm |
| Observer: | <i>Am. Ave</i> | Location of point | p | cm |
| UTME: | UTMN: | Zone: | 13 | |
| Ram type: | <i>0936/0943</i> | RN = T + H + nfH/p | | kg |
| Ram mass: | | RR = 9.81 (T + H + nfH/p) | | N |
| T | H | n | f | p |
| 0.1 | 0 | 0 | 0 | 6 |
| 0.1 | 0.1 | 0 | 0 | 9 |
| | | | | |
| 8 | 1 | | 10 | |
| | | | | 11 |
| | | | | |
| 1 | 2 | | 13 | |
| | | | | 14 |
| | | | | |
| 2 | 2 | | 15 | |
| | | | | 16 |
| | | | | |
| 1 | 5 | | 17 | |
| | | | | 18 |
| | | | | |
| 1 | 10 | | 19 | |
| | | | | |
| 2 | 10 | | 20 | |
| | | | | 21 |
| | | | | 22 |
| | | | | 23 |
| | | | | 24 |
| | | | | 25 |
| 4 | 10 | | 26 | |
| 3 | 15 | | 27 | |
| 1 | 20 | | 28 | |
| | | | | 29 |
| | | | | 30 |
| | | | | 31 |
| | | | | 32 |
| 1 | 10 | | 33 | |
| 2 | 16 | | 34 | |
| 4 | 10 | | 35 | |
| 3 | 20 | | 36 | |
| 5 | 20 | | 37 | |
| 5 | 25 | | 38 | |
| 3 | 25 | | 39 | |
| | | | | 39.5 |

Notes:

| Location: | Co | Date: | 20241217 | Force | Depth | Depth | | |
|-----------|----------------|------------|-----------|-----------|------------|------------|------|----------|
| Site: | Sleeter | Time: | 0936 | max | manual | digital | Grnd | |
| Pit: | SLM-ET20241217 | Observers: | Eric Cire | Profile # | Force Gage | N | Y/N | Comments |
| X-Coord | Y-Coord | Time | Data Type | SN | Profile # | Force Gage | cm | cm |
| 15 | 15 | 0930 | Raw Data | | | | 19.7 | Y |
| 20 | ↓ | 0943 | STD Run | | | | 42 | ↓ |
| 15 | 30 | 0944 | Scope | 234 | 778 | | 39 | 33 |
| 30 | | 0946 | | | 981 | 46 | 26 | - |
| 45 | | 0949 | | | 987 | 43 | 27 | |
| 60 | | 0950 | | | 989 | 43 | 41 | |
| 75 | ↓ | 0951 | | | 990 | 41 | 38 | ↓ |
| 15 | 45 | 0954 | Force Run | | 1000 | 5 | 27 | ✓ |
| 30 | | 0956 | | | | 5 | 28 | |
| 45 | | 0956 | | | 9 | 29 | | |
| 60 | | 0956 | | | 4 | 27 | | |
| 75 | ↓ | 0956 | | | 6 | 23 | | |
| 15 | 60 | 0957 | Force Run | 234 | 991 | 1000 | 3 | 36 |
| 30 | | 0958 | | | 992 | | 3 | 36 |
| 45 | | 0948 | | | 993 | | 3 | 35 |
| 60 | | 0959 | | | 994 | 0 | 34 | 33 |
| 75 | ↓ | 0959 | | | 995 | 3 | 35 | 33 |

| Location (regional scale) | | Site (study plot) | | Transects | | Date | Time | | | |
|---------------------------|---------|-------------------|---------|-----------------|---------|----------|---------|------|--|--|
| | | | | | | | Start | End | | |
| <i>Ce</i> | | SLMET | | A, B | | 20241217 | 1004 | 1019 | | |
| Observer(s) | | Wx Description | | | | | | | | |
| <i>Emelie</i> | | OVC LIGHT NO NONE | | | | | | | | |
| Transect A 1612 | | | | 1613 Transect B | | | | | | |
| Point | HS (cm) | Point | HS (cm) | Point | HS (cm) | Point | HS (cm) | | | |
| 0 | 41 | 31 | | 0 | 45 | 31 | 56 | | | |
| 1 | 30 | 32 | | 1 | 51 | 32 | 41 | | | |
| 2 | 40 | 33 | | 2 | 51 | 33 | | | | |
| 3 | 49 | 34 | | 3 | 47 | 34 | | | | |
| 4 | 47 | 35 | | 4 | 36 | 35 | | | | |
| 5 | 60 | 36 | | 5 | 52 | 36 | | | | |
| 6 | 49 | 37 | | 6 | 53 | 37 | | | | |
| 7 | 41 | 38 | | 7 | 47 | 38 | | | | |
| 8 | 46 | 39 | | 8 | 59 | 39 | | | | |
| 9 | 41 | 40 | | 9 | 47 | 40 | | | | |
| 10 | 43 | 41 | | 10 | 49 | 41 | | | | |
| 11 | 40 | 42 | | 11 | 52 | 42 | | | | |
| 12 | 44 | 43 | | 12 | 53 | 43 | | | | |
| 13 | 42 | 44 | | 13 | 50 | 44 | | | | |
| 14 | 47 | 45 | | 14 | 53 | 45 | | | | |
| 15 | 36 | 46 | | 15 | 53 | 46 | | | | |
| 16 | 38 | 47 | | 16 | 48 | 47 | | | | |
| 17 | 37 | 48 | | 17 | 58 | 48 | | | | |
| 18 | 37 | 49 | | 18 | 44 | 49 | | | | |
| 19 | 36 | 50 | | 19 | 53 | 50 | | | | |
| 20 | 42 | 51 | | 20 | 53 | 51 | | | | |
| 21 | 46 | 52 | | 21 | 56 | 52 | | | | |
| 22 | 47 | 53 | | 22 | 67 | 53 | | | | |
| 23 | 47 | 54 | | 23 | 60 | 54 | | | | |
| 24 | 43 | 55 | | 24 | 57 | 55 | | | | |
| 25 | 46 | 56 | | 25 | 36 | 56 | | | | |
| 26 | 40 | 57 | | 26 | 80 | 57 | | | | |
| 27 | 24 | 58 | | 27 | 59 | 58 | | | | |
| 28 | 22 | 59 | | 28 | 59 | 59 | | | | |
| 29 | 29 | 60 | | 29 | 57 | 60 | | | | |
| 30 | 25 | | | 30 | 44 | | | | | |