### Snowpack Profile

**Profie # 1**

- **Elev.:** 11,060 ft
- **Aspect:** SE
- **Boot Pen.:** 25 cm
- **Wind:** mod
- **Prior Pit #:** 1

**Date:** 1/14/12a

**Air T:** -4°C

**Precip:** nil

**HS Norm:** 125 m

**Mean ρ:** 268 kg/m³

**Notes:**

- No visible dust
- Decomposing, mixed rounding
- Brecs → rounding
- Small rounds, some sintering
- Mixed going to sintered rounds
- Rounding depth haze
- Freeze-thaw poly

**Total Snowpack SWE:** 335 mm H₂O

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**Notes:**

- 335

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V. 12/4/15
Snow School

CODOS Snowpack Profile

Observers: J0, AR
Location: SASP
Elev. 11060
Aspect: SE
Boot Pen: 2.1 cm
Angle: 20
Air T: -3 °C
Sky: 0
Precip: NO
Wind: C
Notes: No dust observed.
1.6 Slope normal

Date: Z12012020
Time: 2:38 PM MDT
Center for Snow and Avalanche Studies

Snowpack Profile

Profile # 4

Time: 9:43
Location: SASP
Air T: -1.3 °C
Sky: 0
Total Snowpack SWE: 515 mm H2O

Elev. 11,060' Aspect: 35°
Precip: Nil
Wind: Nil
HS Norm: 1.16 m Mean ρ 322 kg/m³
Prior Pit: # 3: 2/20/2020

Notes:

Old grain sandy and dry poly 515

D1 = 110-115 cm

01 evident at 110-115 cm

Surface sunny days crust cool nights

515
CODOS Snowpack Profile

Date: 3/15/2020

Location: SASP

Elev. Aspect: Boot Pen: 22 cm θ: ° Time: 2:00 MDT

Prior Obs: 1 1

Air T: °C Sky: Precip: Nil Wind: CAL/M

Notes:

$s_1 = 1.77$ m

K P 1F 4F F H D# θ Notes

181

old surface

01: 110 cm - 115 cm

597
### Center for Snow and Avalanche Studies
#### Snowpack Profile

**Observers:** AT + EO  
**Time:** 1200  
**Location:** SASP  
**Date:** 3/23/20

**Elev.:** 11,050'  
**Aspect:** NE  
**Boot Pen.:** 45 cm, $\angle 3^\circ$

**Air T.:** -2 °C  
**Sky:** $\emptyset$  
**Precip:** S-1  
**Wind:** Lt.  
**Prior Plt. #:**

**Total Snowpack SWE:** 595 mm H₂O  
**HS Norm:** 1.96 m  
**Mean $\rho$:** 303.6 kg/m³  
**Notes:**

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**SWE**

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Observers: ST AT
Center for Snow and Avalanche Studies

Snowpack Profile

Profile # ______

Date: 01/04/2020

Time: 0942

Location: SASS

Elev. 11,060' Aspect: NE Boot Pen: 24 cm

Air T: ~5 °C  Sky: SCT - BKN  Precip: no

Wind: L-SW  Prior Pit: # _____

Total Snowpack SWE: 680 mm H2O  HS Norm: 1.92 m  Mean p: 410 kg/m^3

Notes: ______________

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Notes:

- We still have a winter snowpack with primarily dry snow, but it will soon become moist and is almost moist near ground. Dust at 105 cm + 173 cm is obvious. There is a possibility for dust in MF or at 138cm +157cm, but it is not currently observable. E-S slopes below treeline are runned, suggesting dust may be present in near surface snow, though it was not seen directly observed.

V. 12/4/15
No clear evidence of D2. Snowpack will likely become isothermal this week. The midpack temperatures have increased about 1°C since the last pit 6 days ago. SWE is very similar to last week, despite a small precip event which produced 8mm beginning 20200402. Telluride ski patrol (off duty) reported mocha colored snow on 20200403 at TMR.
A nice refresh of snow on Easter. Dust is visible under new snow, but unclear if its event 3 or 4. D2 is possibly at 141 cm, but does not stand out. D1 is obvious at 104 cm. Snowpack is isothermal.
Observers: AT, JT

Center for Snow and Avalanche Studies

Profile # ___

Snowpack Profile

Date: 2020/04/12

Location: SA-SP

Time: ___________

Air T: 10 C

Elev.: 11,060 ft

Aspect: NE

Boot Pen: 7 cm

Ind: ___

Total Snowpack SWE: 675 mm H2O

HS Norm: 1.75 m

Mean p: ______ kg/m^3

Notes: ___________

Notes:

- D1 is obvious at 97-102 cm, D2 is possible at 130, but not confirmed; it does relate to suspected dust on April 1 at about 140 cm, and observed dust from April 13. A thin layer of dust, likely D2, is visible at 164. Dust is also visible under the new snow at 167-173 cm, and is likely D4. Snow is isothermal. 404 mm of SWE is below all visible dust.

V. 12/4/15
Warm day with increasing clouds. Air T from station data

Notes: Dust is prevalent at the surface and just below a trace of new snow. This may be a new event or a merging of previous events. D2 may exist around 120 cm but inconclusive. DL is obvious around 100 cm. Snowpack is isothermal. Snow is mostly moist with wet snow near surface and near ground with some very wet areas at interfaces in upper snowpack.
The snow surface is dusty with 1mm particles. The dust is still below the surface. The dust is widespread and the snow change is dramatic week to week. The stream is as full as it has been this season. The snow will support the weight of a skier thanks to crust just below surface.
Notes: Dust events from D2 and later are becoming more concentrated in the surface/near-surface snow. The merged layers appear cleaner with increased depth, and there is a small clean band. D1 is several centimeters deeper within a ice laminate and is more diffuse than the above merged layers. Based on rate of melt, we expect all layers to merge within the next 3 days. Winter is back with 4 cm of moist snow at S4SP.

V. 12/4/15
Observers: JT  AT

Center for Snow and Avalanche Studies

Snowpack Profile

Profile # ______

Time: 11:40

Location: SASP

Elev: 11,060

Aspect: N

Boot Pen: 2 cm

Air T: 11 °C

Sky: Few

Precip: Very light

Wind: M-South

Prior Pit: # - ; 2020/12/5/11

Date: 2020/12/5/11

Location: ___________________________           Elev. _________       Aspect: ____        Boot Pen: _____ cm

Total Snowpack SWE: 302 mm H2O           HS Norm: 0.67 m   Mean ρ:  n/o kg/m³ Notes: A few raindrops fell under mostly clear sky.

Notes: All layers merged at surface. Snowpack is melting quicker than polycrystals can grow. Nothing in the snow structure to hold back water leading to free drainage. Creek is just about entirely melted out through Swamp Angel clearing, portions of Swamp angel are melted to bare ground. We expected to still see snow at SASP next week. Spent some time digging out creek upstream of SASP for gaging tomorrow 12/4/15.
Observers: JT AT

Center for Snow and Avalanche Studies

Profile #

Snowpack Profile

Date: 2020/05/26

Location: SASP

Elev. 1,060

Aspect: NE

Boot Pen: 2 cm

Air T: 9 °C

Sky: clc

Precip: no

Wind: L-5

Prior Pit: # 0 ; 2020/05/19

Total Snowpack SWE: 126 mm H2O

HS Norm: 0.32 m

Mean ρ: no kg/m³

Notes: Less wind than above tree line. North 25cm East 30cm South 25cm West 15cm

Sun cups over 15cm

Noty Surface

Notes:

All layers merged. Large sun cups. Some sun cups between SASP and SBSP were ground soon deep. Still snowy at SASP but much of meadow is melted out.
Observers: ST, AT  

Center for Snow and Avalanche Studies  

Snowpack Profile  

Profile # ___

Time: 11:23  

Location: SBSP  

Air T: 1 °C  

Air T: 1 °C  

Date: 3/10/2020  

Elev. 17,186 ft  

Aspect: NE  

Boot Pen: 17 cm  

Aspect: NE  

Profile # ___  

Boot Pen: 17 cm  

Precip: 0  

Wind: L-NE  

Prior Pit: # ____  

Date: ____/____/_____

Location: ___________________________  

Elev. _______  

Aspect: ____

Boot Pen: _____ cm  

Angle: ______°  

Air T: _____ °C  

Sky: ____  

Precip: _____  

Wind: _____  

Notes: ________________

Total Snowpack SWE: 719 mm H₂O  

HS Norm: _________ m  

Mean ρ: ___________ kg/m³

Notes: _____________________________

### Snowpack Profile

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SWE (mm)

### Notes:

No dust observed. 2020 snowpack came in good deep with little exposure to atmosphere until January. A nice day with clear sky and generally light wind from W-E, occasionally gust. A bank of amber colored clouds to the south built through the day.
Observer: AT JT

Center for Snow and Avalanche Studies

Snowpack Profile

Date: 24/03/20

Profile # _____

Time: 1200

Location: SBSP

Elev. 12,106 ft

Aspect: NE

Boot Pen: 2.0 cm

∠: 3°

Air T: -4.6 °C

Precip: NO

Wind: W - SW

Prior Pit: # 0 4/3/20

Total Snowpack SWE: 590 mm H₂O

HS Norm: 1.85 m

Mean ρ: N/A kg/m³

Notes: ______________

_______________________________________________________________________________________

Notes: Inconclusive evidence of D1, possibly due to extensive wind transport, it may exist in upside of 120 layer. Snow is stiff down to

Lots of rounding, especially 120 cm and below.

_______________________________________________________________________________________

V. 12/4/15
Observers: JT, AT
Center for Snow and Avalanche Studies

**Snowpack Profile**

Date: 2020/04/07

**Location:** SBSP  
**Elev.:** 12,186 ft  
**Aspect:** NE  
**Boot Pen:** 6 cm  
**L: 0°**

**Air T:** ~1 °C  
**Sky:** CLR  
**Precip:** no  
**Wind:** L-SU  
**Prior Pit:** # — 2020/03/31

**Total Snowpack SWE:** 677 mm H$_2$O  
**HS Norm:** 1.86 m  
**Mean $\rho$:** ___ kg/m$^3$  

**Notes:** Cloudless sky, yellow hue on SE horizon.

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**Notes:** No clear sign of D1 or D2. D3 is prevalent on surface from SASP to SBSP as dirty snow and dramatized melt patterns (firnspiegel-trunnels) as well as in wet loose avalanches. It is not prevalent at SBSP but visible in many other areas of SBB. CAIC forecasters at CDOT staged at SASP for explosive mission to Blue Point Cornice. CAIC welcomed us and explained our work to CDOT.
Observations: JT, AT
CODOS Snowpack Profile
Date: 2020/04/13
Location: SBSP
Elev. 12186
Aspect: NE
Boot Pen: 2 cm
∠: 5°
Time: 1130 MDT
Prior Obs: 2020/04/07
Air T: -13.5°C
Sky: Few
Precip: No
Wind: MSW
Notes: 

D1 is visible from 104-108 cm, D2 is light but visible from 118-124 cm. The snowpack at SBSP is very cold and winter-like today, but it has had liquid water move through it. It was a very chilly day, especially with wind.

D1 is diffuse from 104-108 cm
D2 is lightly visible from 118-124 cm
1 mm facets
59

Swe mm

Total: 616 mm
Observers: JTAT

Center for Snow and Avalanche Studies

Snowpack Profile

Date: 2020/04/12

Profile # ______

Time: _____________

Location: SBSP

Elev. 12,186 ft

Aspect: W

Boot Pen: 15 cm

∠: 3

Air T: ______°C

Sky: OVC

Precip: S-1 to S

Wind: L-SW

Prior Pit: # ___; 2020/04/14

Total Snowpack SWE: 691 mm H2O

HS Norm: ______ m

Mean ρ: ______ kg/m3

Notes: ______________

Intermittent very light to light snowfall and sky clearings.

Notes: This was the first time we have clearly seen dust in a profile at SBSP in WY 2020. This may be because the pit was located in a spot with more deposition, or because water has moved through the snow possibly consolidating dust. In addition the lighting was such which may have provided more contrast from clean to dusty snow. There was moist snow near the surface, generally the snow was still winter like.
**Snowpack Profile**

**Date:** 2020/04/28

**Location:** SBB

**Elev.:** 12,186 ft

**Aspect:** NE

**Boot Pen:** 2 cm

**∠:** 3°

**Air T:** 2 °C

**Sky:** overcast

**Precip:** no

**Wind:** S-NW

**Prior Pit:** # _____; 2020/04/12

**Total Snowpack SWE:** 691 mm H2O

**HS Norm:** 1.73 m

**Mean ρ:** 1.16 kg/m³

**Notes:** sustained strong winds, thin overcast cloudcover, slight haze in sky

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**Notes:** Dust is widespread on snow surface in SBB. It is more concentrated in "eddies" and lee slopes. There are many wet loose avalanches that show contrast of dusty surface and clean snow. There are also some "corn slab" avalanches on easterly slopes. Surface dust may be a merging of D3/4 or new events from small April storms. D1 and D2 are obvious in snowpack. There is a possible dust layer at 167 cm, but inconclusive.
What a difference from last week, SBSP has transitioned into a melting snowpack. Surface dust has become more dramatic with 'melt troughs' around 3cm deep. D1 is still buried and is faint. A very hard near surface layer may prevent surface melt from percolating into the midpack.
Observers: JT, AT

Center for Snow and Avalanche Studies

Profile # __________

Time: __________

Location: SBSP

Elev. ____________ Aspect: NE

Boot Pen: __ cm

Air T: ______ °C

Precip: ______

Wind: ______

Prior Pit: ______/

Date: _____/_____/_____

Location: ___________________________ Elev. _________ Aspect: ____

Boot Pen: _____ cm

∠: ______°

Notes: ______________

_______________________________________________________________________________________

T° K P 1F 4F F H E ρ θ DOD Notes

SWE

Total Snowpack SWE: ______ mm H₂O

HS Norm: _______ m

Mean ρ: ______ kg/m³

Notes: ______________

4 cm of fresh snow left the surface looking clean, with the exception of elevated snow features, wind scoured areas, and wetter surface snow. Dust events after D3 are merged at 135 cm. D2 is not obvious, it may exist by itself at 123 cm or may be merging with above layers. D1 is not merged and present at 100-108 cm. We do not expect all layers to merge in the next 2 weeks. The snowcover is dramatically different week by week with expanding bare areas, and shallow snow around vegetation.

V. 12/4/15
All dust layers are merged at snow surface. The surface is sun cupped and dusty. Snow is melting quickly with large areas melted out and no continuous snow on southerly aspect of SBB from SASP to SBSP. Snow is continuous between study plots on northerly aspects. Drainage is well established allowing water to freely drain. Fortunately snow is supportive for foot travel in the morning.
Notes: All layers merged and leeching heavily.
Sun cupsed surface throughout SBB. Sun cups are large below treeline. Large areas melted out. Travel on bare ground to approx. 11,600 on southerly aspect. Descent route ensures snow travel to SBSF with minimal bare ground on north aspect.
Elk have been moving through basin. Mushrooms and flowers are beginning to appear on southerly aspects.

V. 12/4/15