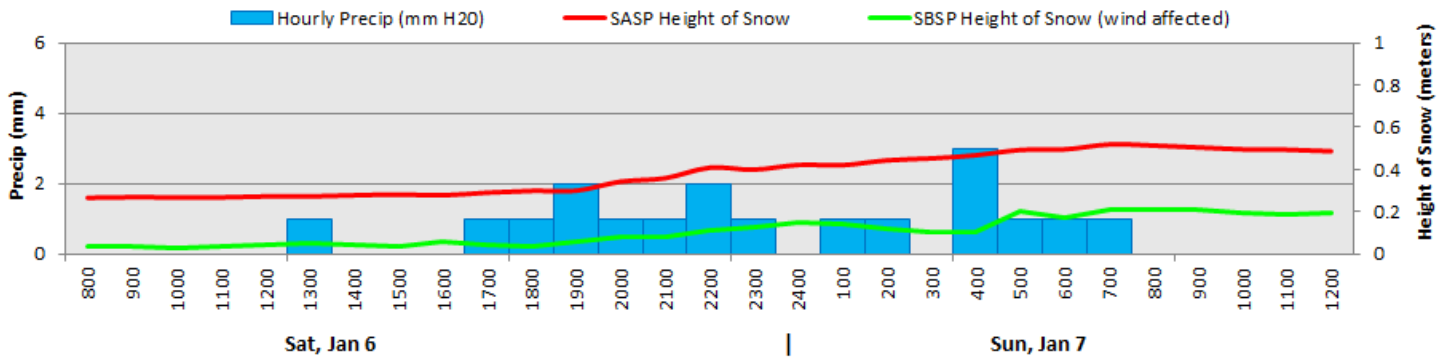


2017/2018 WINTER STORM #1

2017-18 Winter Storm #1: Jan 6 - 7, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 1200 – 1300 hrs MST Saturday, January 6, 2018 (DOY 6)

Storm precipitation ended: 0700 hrs MST Sunday, Jan 7, 2018 (DOY 7)

Storm duration = 20 hrs

Storm total water content at SASP = 18 mm (0.7 inches)

Mean precip intensity: 0.90 mm/hr

Max precip intensity: 3 mm/hour at 0400 on Sunday, Jan 7, 2018 (DOY 7)

Max gain in snow depth at SASP = 24.6 cm (9.7 inches)

Max gain in snow depth at SBSP (wind affected) = 16.6 cm (6.5 inches)

Peak gust at PTSP at: 1600 hrs MST Sunday, January 6, 2018 (DOY 6)

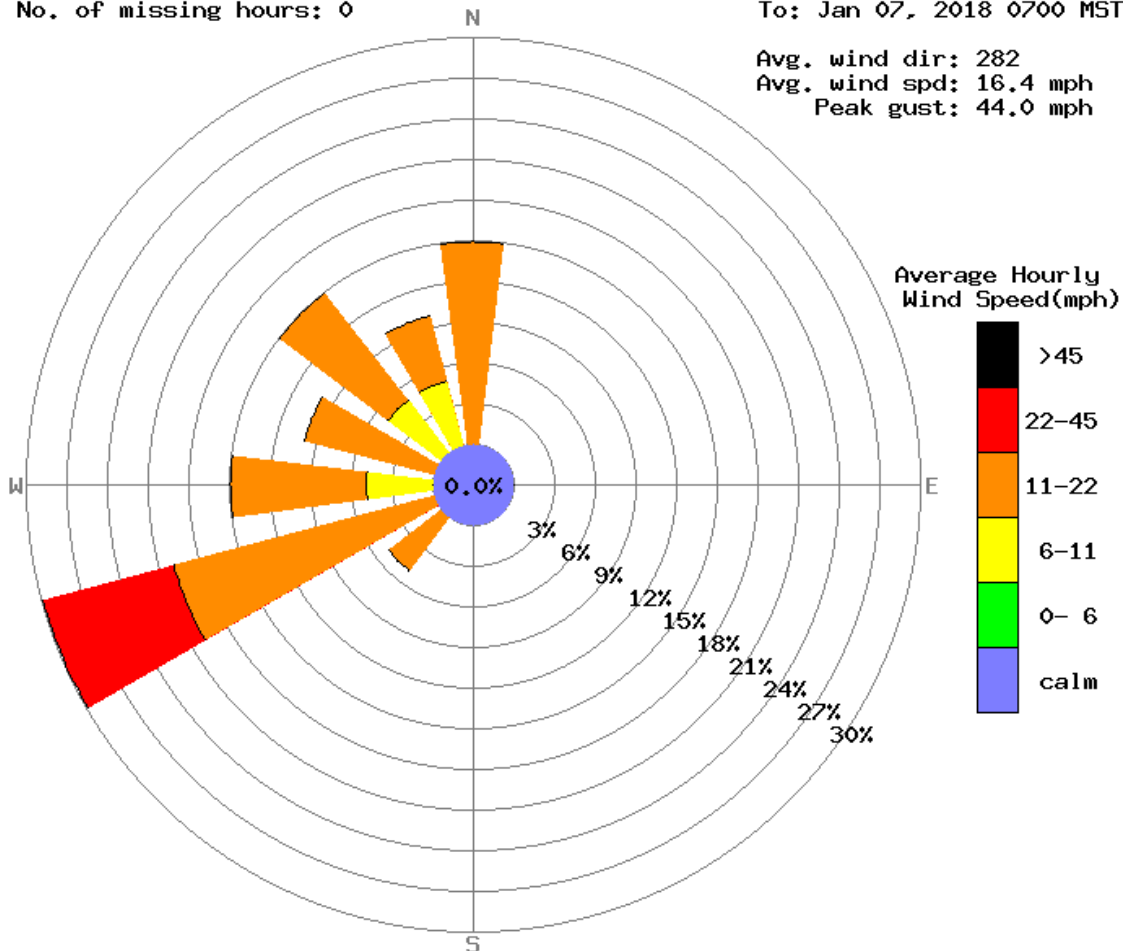
Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 20
No. of missing hours: 0

From hour ending: Jan 06, 2018 1200 MST
To: Jan 07, 2018 0700 MST

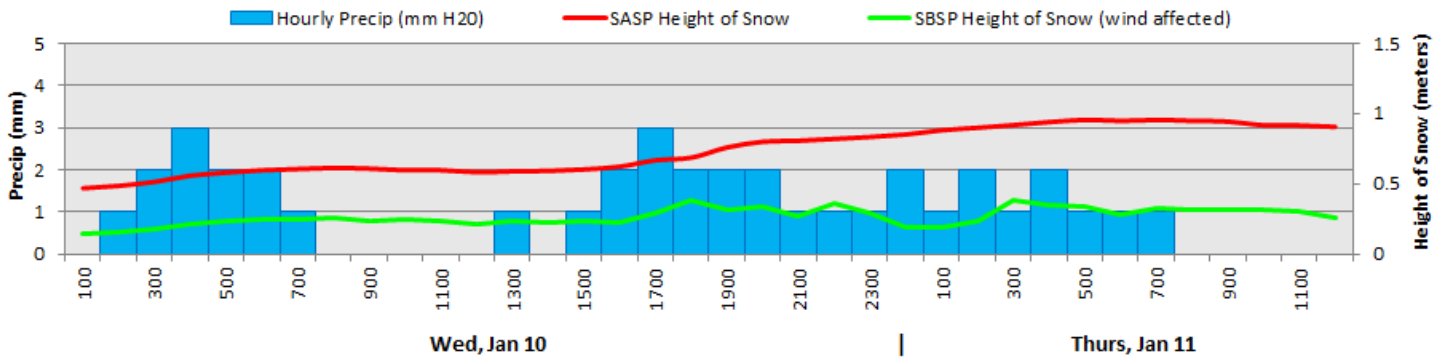
Avg. wind dir: 282
Avg. wind spd: 16.4 mph
Peak gust: 44.0 mph



2017/2018 WINTER STORM #2

2017-18 Winter Storm #2: Jan 10-11, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 0100 – 0200 hrs MST Wednesday, January 10, 2018 (DOY 10)

Storm precipitation ended: 0700 hrs MST Thursday, Jan 11, 2018 (DOY 11)

Storm duration = 31 hrs

Storm total water content at SASP = 38 mm (1.5 inches)

Mean precip intensity: 1.23 mm/hr

Max precip intensity: 3 mm/hour on multiple occasions

Max gain in snow depth at SASP = 48.5 cm (19.1 inches)

Max gain in snow depth at SBSP (wind affected) = 18.9 cm (7.4 inches)

Peak gust at PTSP at: 0100 hrs MST Thursday, January 10, 2018 (DOY 10)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 31

No. of missing hours: 0

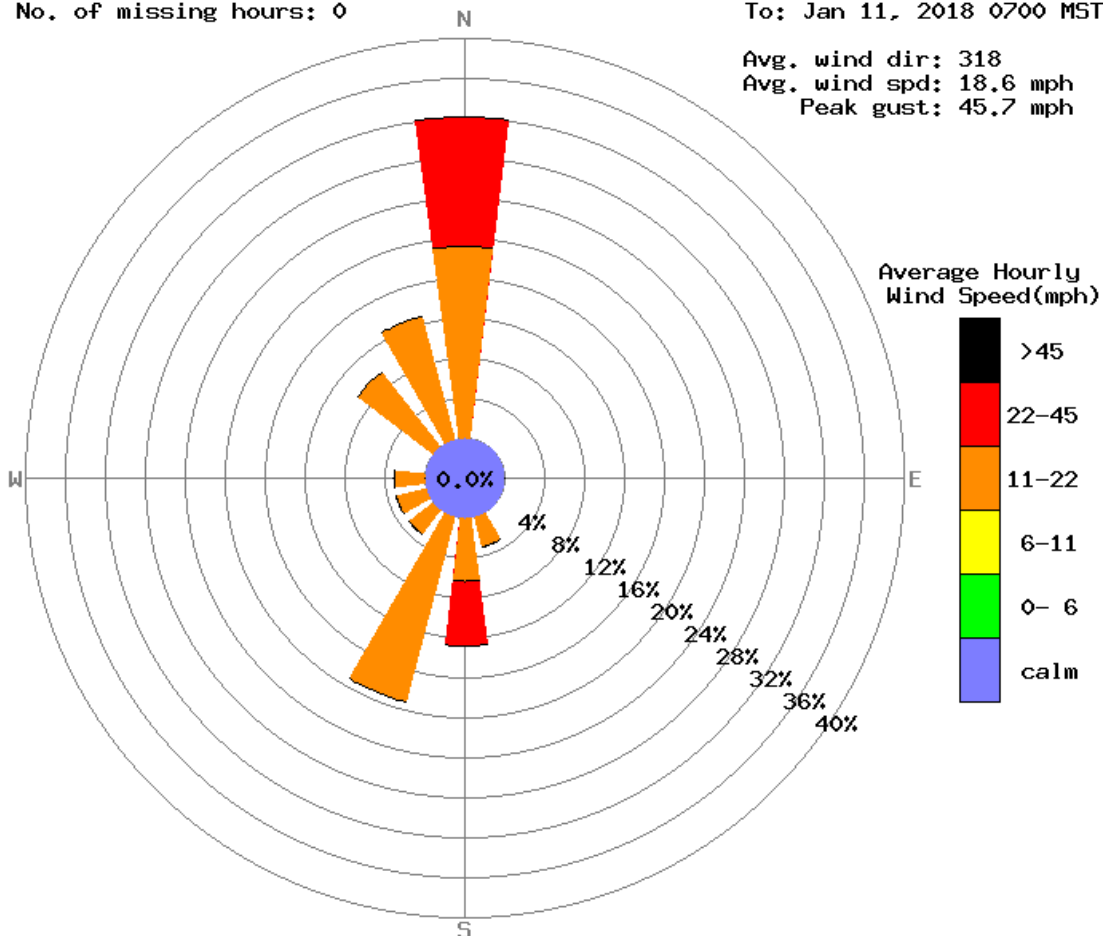
From hour ending: Jan 10, 2018 0100 MST

To: Jan 11, 2018 0700 MST

Avg. wind dir: 318

Avg. wind spd: 18.6 mph

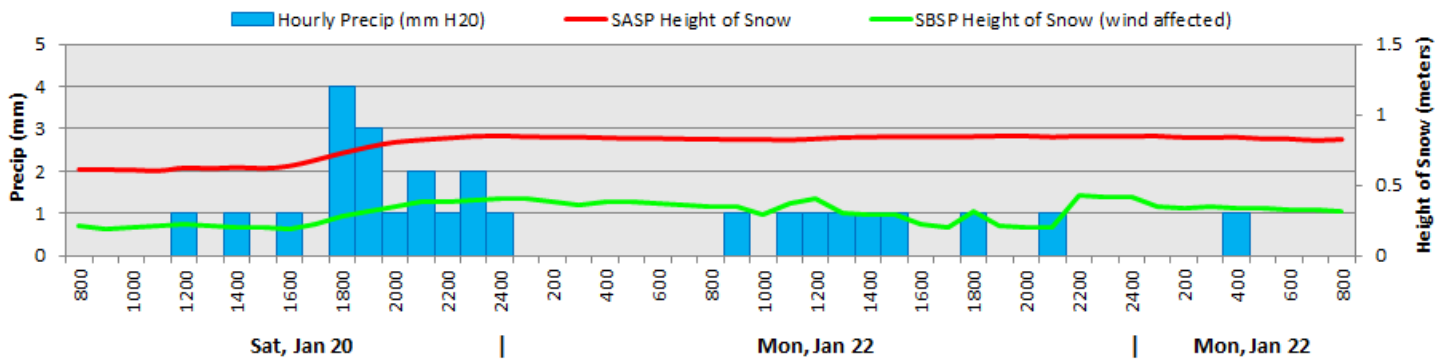
Peak gust: 45.7 mph



2017/2018 WINTER STORM #3

2017-18 Winter Storm #3: Jan 20-22, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 1100 – 1200 hrs MST Saturday, January 20, 2018 (DOY 20)

Storm precipitation ended: 0400 hrs MST Monday, Jan 22, 2018 (DOY 22)

Storm duration = 42 hrs

Storm total water content at SASP = 26 mm (1.0 inches)

Mean precip intensity: 0.62 mm/hr

Max precip intensity: 4 mm/hour at 1800 hrs MST Saturday, January 20, 2018 (DOY 20)

Max gain in snow depth at SASP = 23.8 cm (9.4 inches)

Max gain in snow depth at SBSP (wind affected) = 12.7 cm (5.0 inches)

Peak gust at PTSP at: 1911 hrs MST Saturday, January 20, 2018 (DOY 20)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 42

No. of missing hours: 0

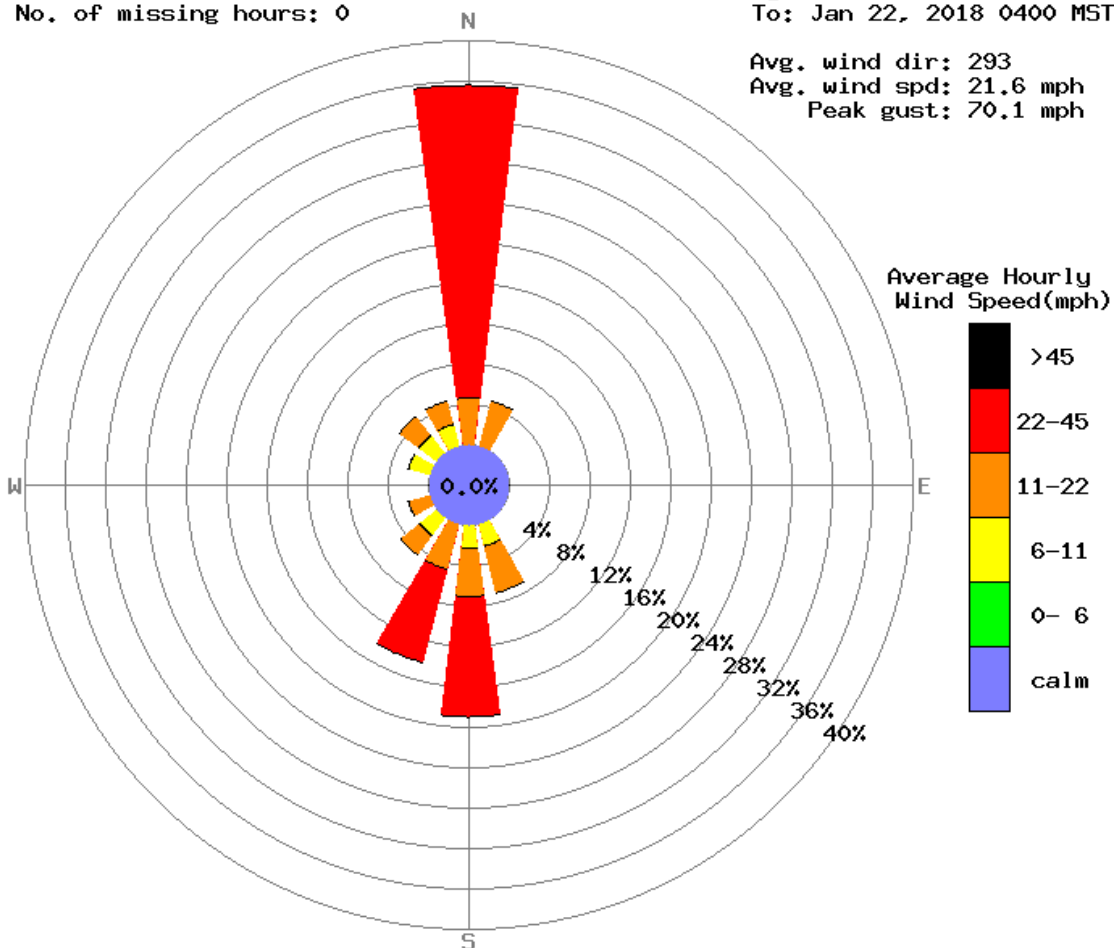
From hour ending: Jan 20, 2018 1100 MST

To: Jan 22, 2018 0400 MST

Avg. wind dir: 293

Avg. wind spd: 21.6 mph

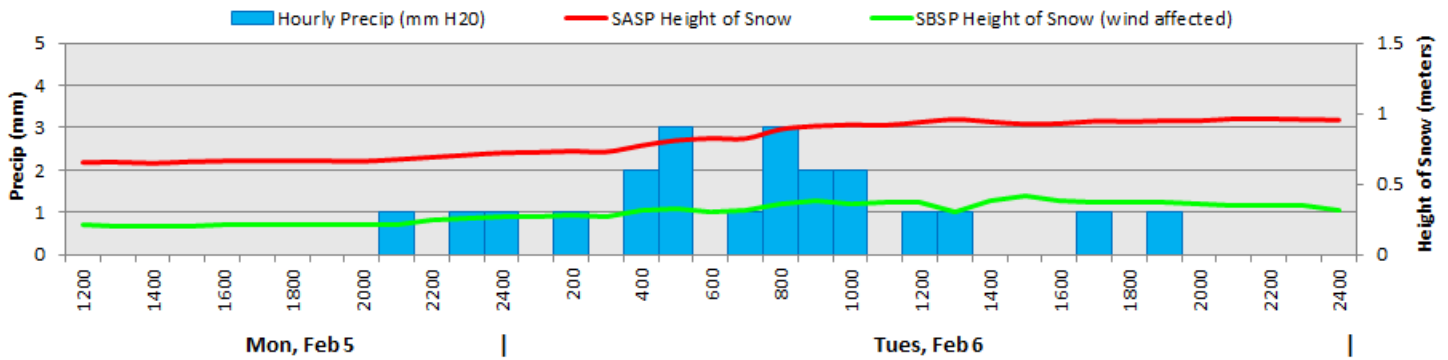
Peak gust: 70.1 mph



2017/2018 WINTER STORM #4

2017-18 Winter Storm #4: Feb 5-6, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 2000 – 2100 hrs MST Monday, February 5, 2018 (DOY 36)

Storm precipitation ended: 1900 hrs MST Tuesday, February 6, 2018 (DOY 37)

Storm duration = 37 hrs

Storm total water content at SASP = 21 mm (0.8 inches)

Mean precip intensity: 0.88 mm/hr

Max precip intensity: 3 mm/hour at 500 hrs MST Tuesday, February 6, 2018 (DOY 37)

Max gain in snow depth at SASP = 28.8 cm (11.3 inches)

Max gain in snow depth at SBSP (wind affected) = 14.5 cm (5.7 inches)

Peak gust at PTSP at: 200 hrs MST Tuesday, February 6, 2018 (DOY 37)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 24

No. of missing hours: 0

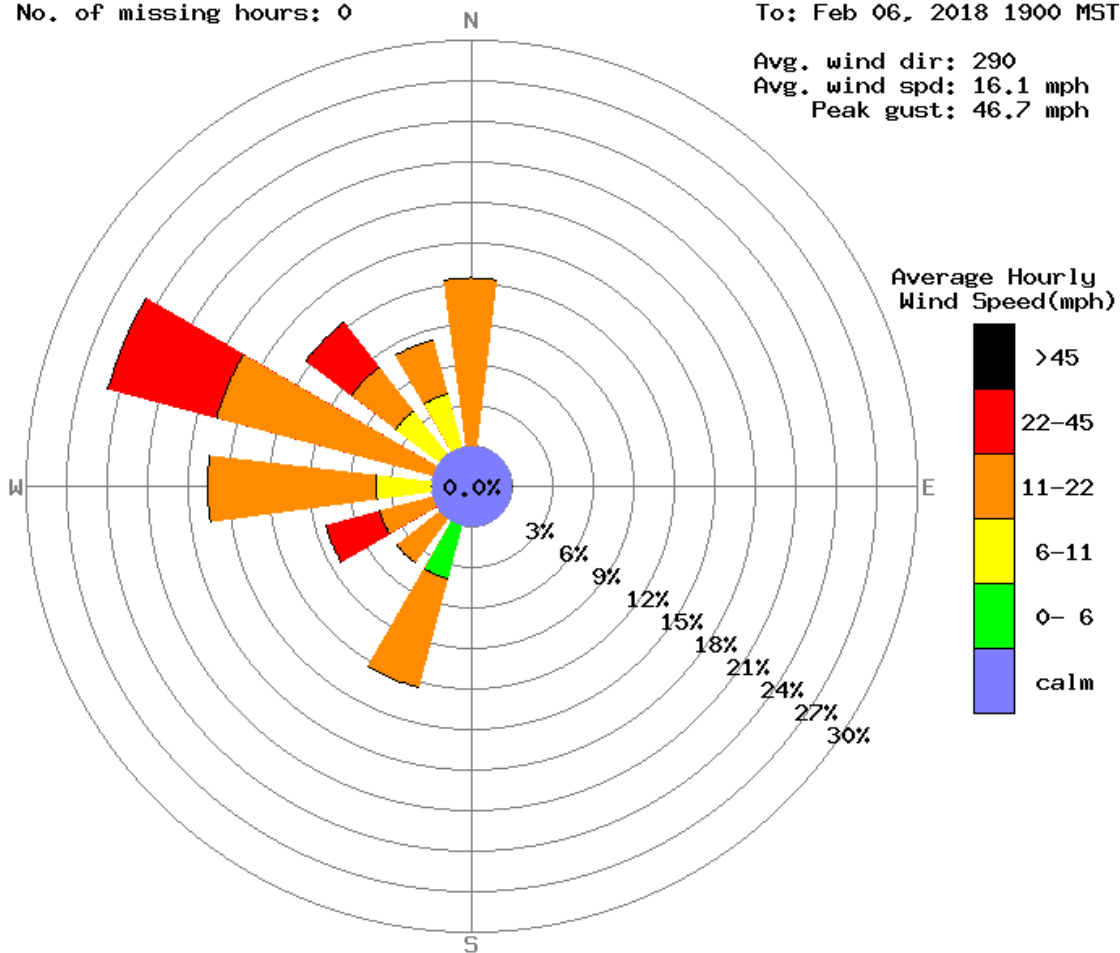
From hour ending: Feb 05, 2018 2000 MST

To: Feb 06, 2018 1900 MST

Avg. wind dir: 290

Avg. wind spd: 16.1 mph

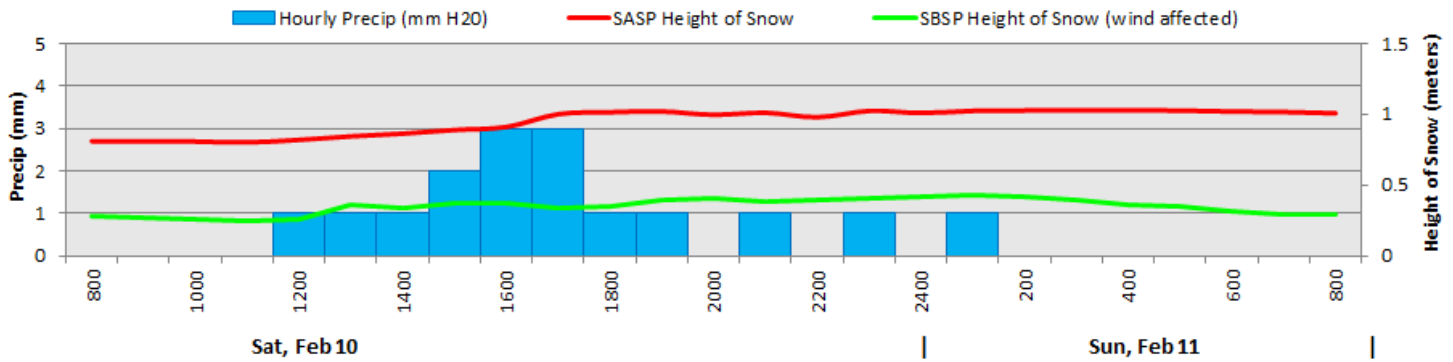
Peak gust: 46.7 mph



2017/2018 WINTER STORM #5

2017-18 Winter Storm #5: Feb 10-11, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 1100 – 1200 hrs MST Saturday, February 10, 2018 (DOY 41)

Storm precipitation ended: 100 hrs MST Sunday, February 11, 2018 (DOY 42)

Storm duration = 15 hrs

Storm total water content at SASP = 16 mm (0.6 inches)

Mean precip intensity: 1.07 mm/hr

Max precip intensity: 3 mm/hour at multiple occasions

Max gain in snow depth at SASP = 22.2 cm (8.7 inches)

Max gain in snow depth at SBSP (wind affected) = 9.7 cm (3.8 inches)

Peak gust at PTSP at: 2259 hrs MST Saturday, February 10, 2018 (DOY 41)

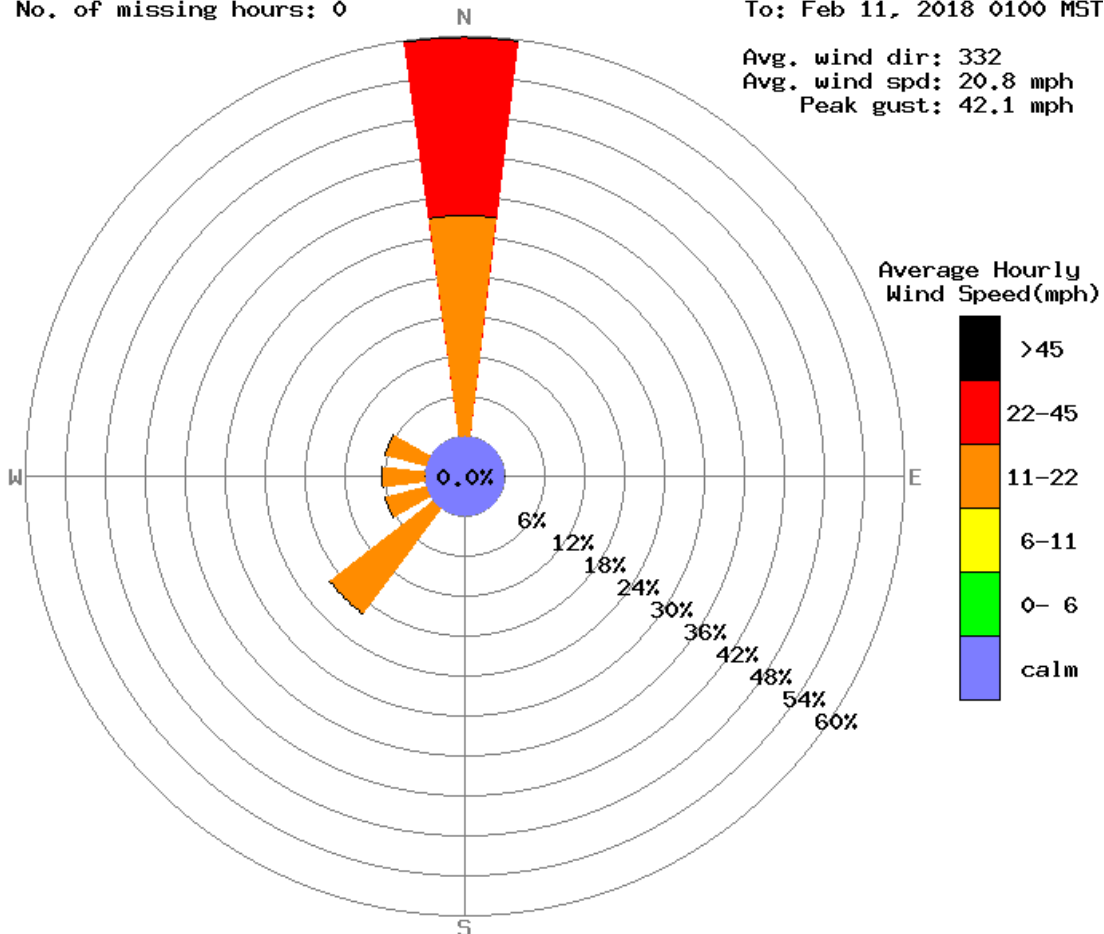
Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 15
No. of missing hours: 0

From hour ending: Feb 10, 2018 1100 MST
To: Feb 11, 2018 0100 MST

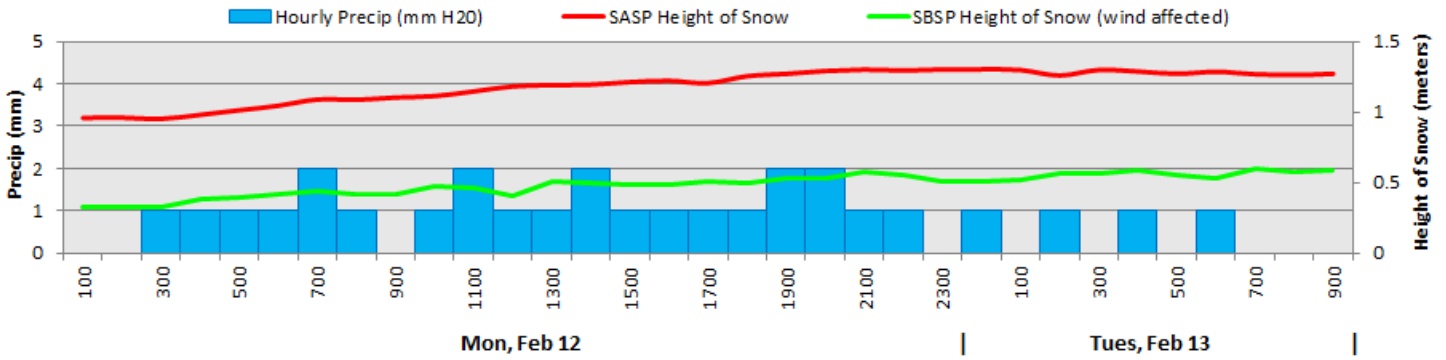
Avg. wind dir: 332
Avg. wind spd: 20.8 mph
Peak gust: 42.1 mph



2017/2018 WINTER STORM #6

2017-18 Winter Storm #6: Feb 12-13, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 200 – 300 hrs MST Monday, February 12, 2018 (DOY 43)

Storm precipitation ended: 600 hrs MST Tuesday, February 13, 2018 (DOY 44)

Storm duration = 29 hrs

Storm total water content at SASP = 28 mm (1.1 inches)

Mean precip intensity: 0.97 mm/hr

Max precip intensity: 2 mm/hour on multiple occasions

Max gain in snow depth at SASP = 31.1 cm (12.2 inches)

Max gain in snow depth at SBSP (wind affected) = 25.3 cm (10.0 inches)

Peak gust at PTSP at: 2009 hrs MST Monday, February 12, 2018 (DOY 43)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 29

No. of missing hours: 0

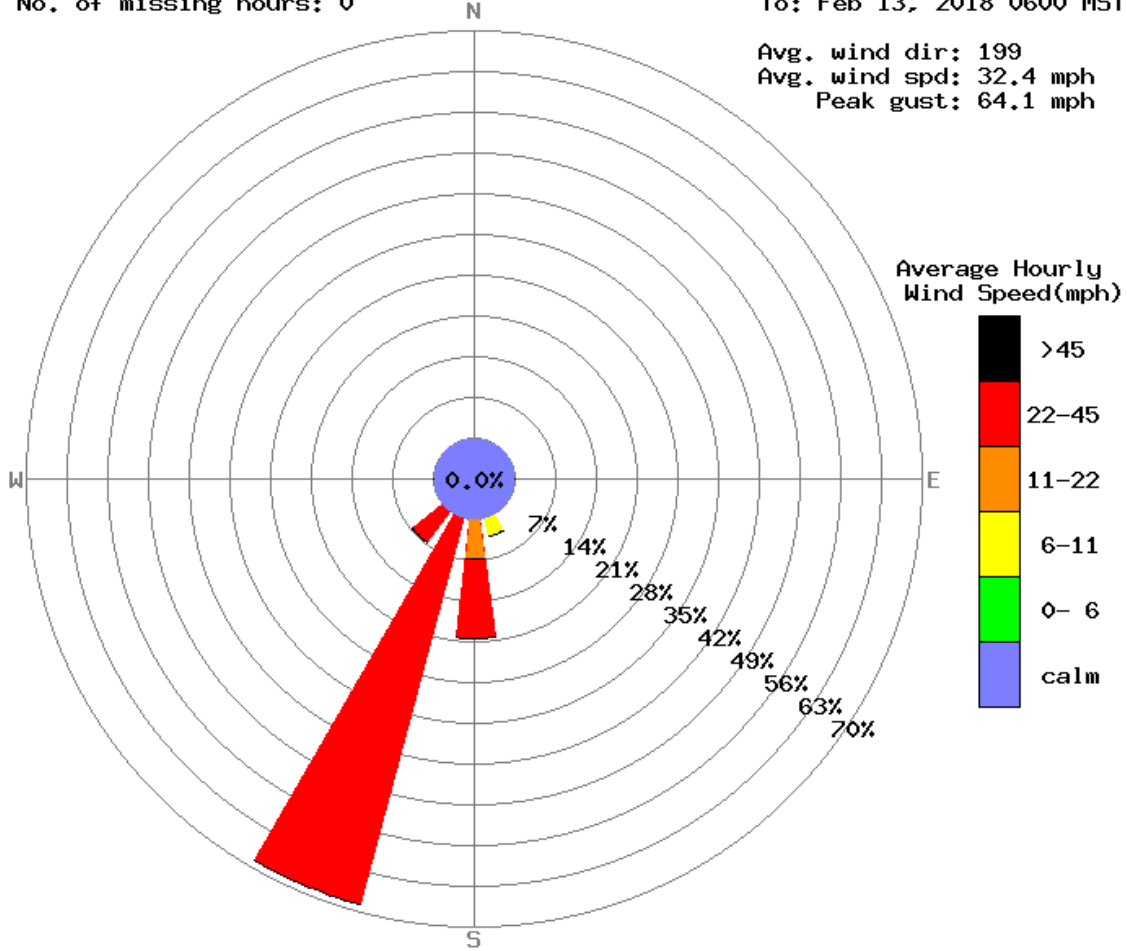
From hour ending: Feb 12, 2018 0200 MST

To: Feb 13, 2018 0600 MST

Avg. wind dir: 199

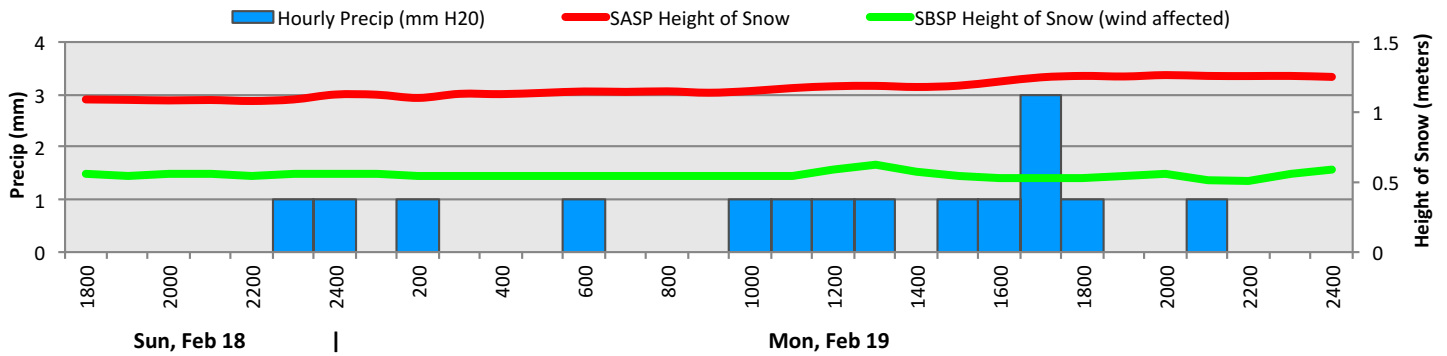
Avg. wind spd: 32.4 mph

Peak gust: 64.1 mph



2017/2018 WINTER STORM #7

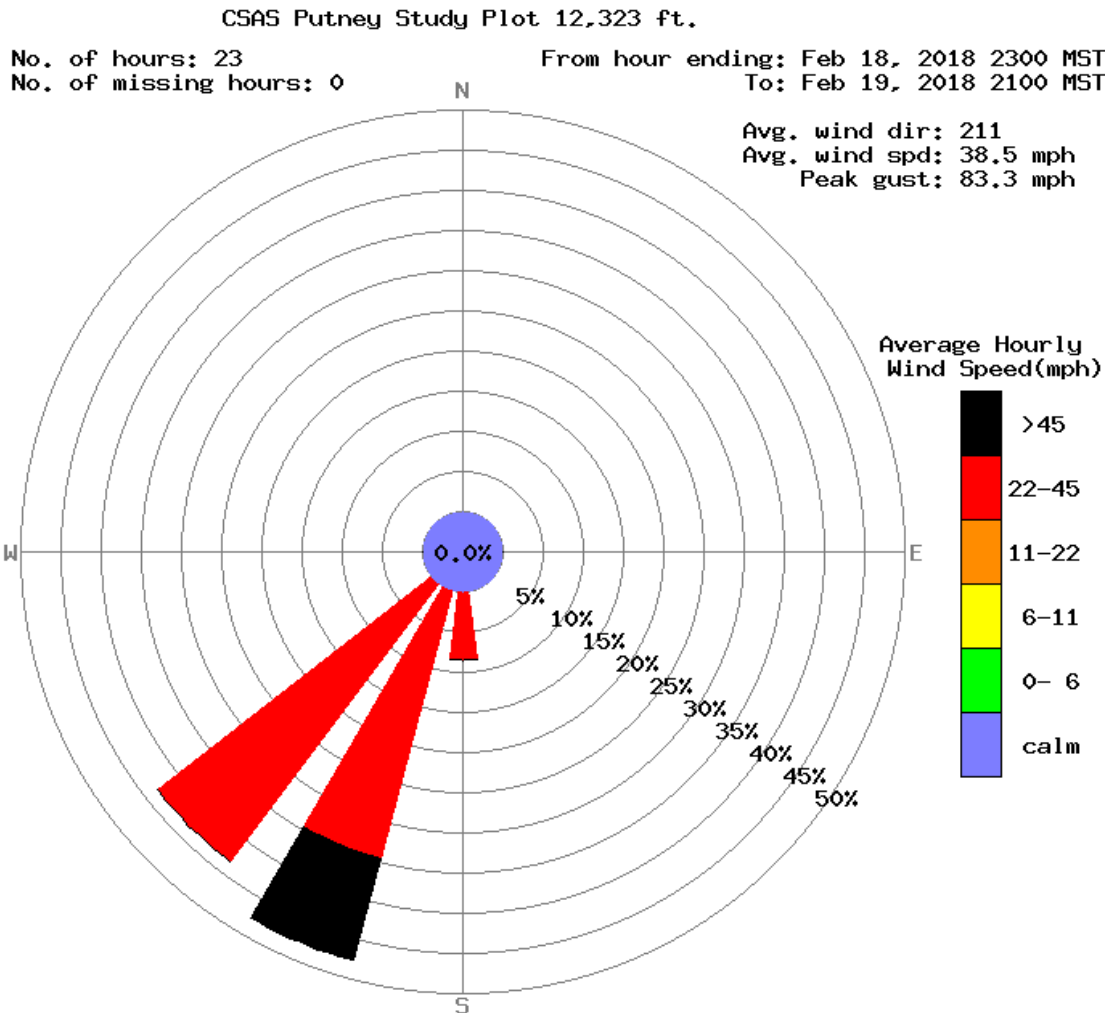
2017-18 Winter Storm #7: Feb 18-19, 2018
 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

- Storm precip began between 2200 – 2300 hrs MST Sunday, February 18, 2018 (DOY 49)
- Storm precipitation ended: 2100 hrs MST Monday, February 19, 2018 (DOY 50)
- Storm duration = 23 hrs
- Storm total water content at SASP = 15 mm (0.6 inches)
- Mean precip intensity: 0.65 mm/hr
- Max precip intensity: 3 mm/hour between 1600 and 1700 hrs MST Monday, February 19 (DOY 50)
- Max gain in snow depth at SASP = 16.1 cm (6.3 inches)
- Max gain in snow depth at SBSP (wind affected) = 4.1 cm (1.6 inches)
- Peak gust at PTSP at: 1440 hrs MST Monday, February 19, 2018 (DOY 50)

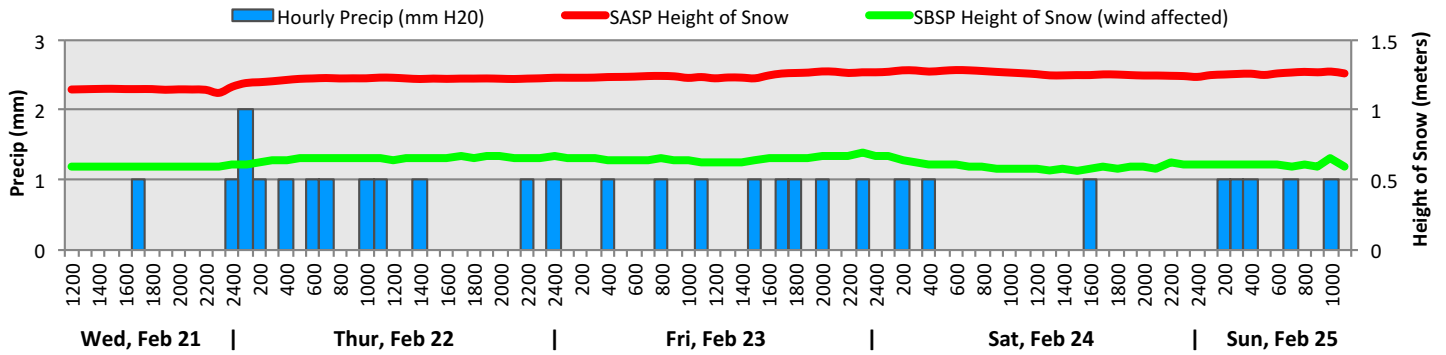
Storm Wind Rose (Putney Study Plot data):



2017/2018 WINTER STORM #8

2017-18 Winter Storm #8: Feb 21-25, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 1600 – 1700 hrs MST Wednesday, February 21, 2018 (DOY 52)

Storm precipitation ended: 1000 hrs MST Sunday, February 25, 2018 (DOY 56)

Storm duration = 90 hrs

Storm total water content at SASP = 29 mm (1.1 inches)

Mean precip intensity: 0.32 mm/hr

Max precip intensity: 2 mm/hour between 0000 and 0100 hrs MST Thursday, February 22 (DOY 53)

Max gain in snow depth at SASP = 12.5 cm (4.9 inches)

Max gain in snow depth at SBSP (wind affected) = 5.6 cm (2.2 inches)

Peak gust at PTSP at: 0832 hrs MST Friday, February 23, 2018 (DOY 54)

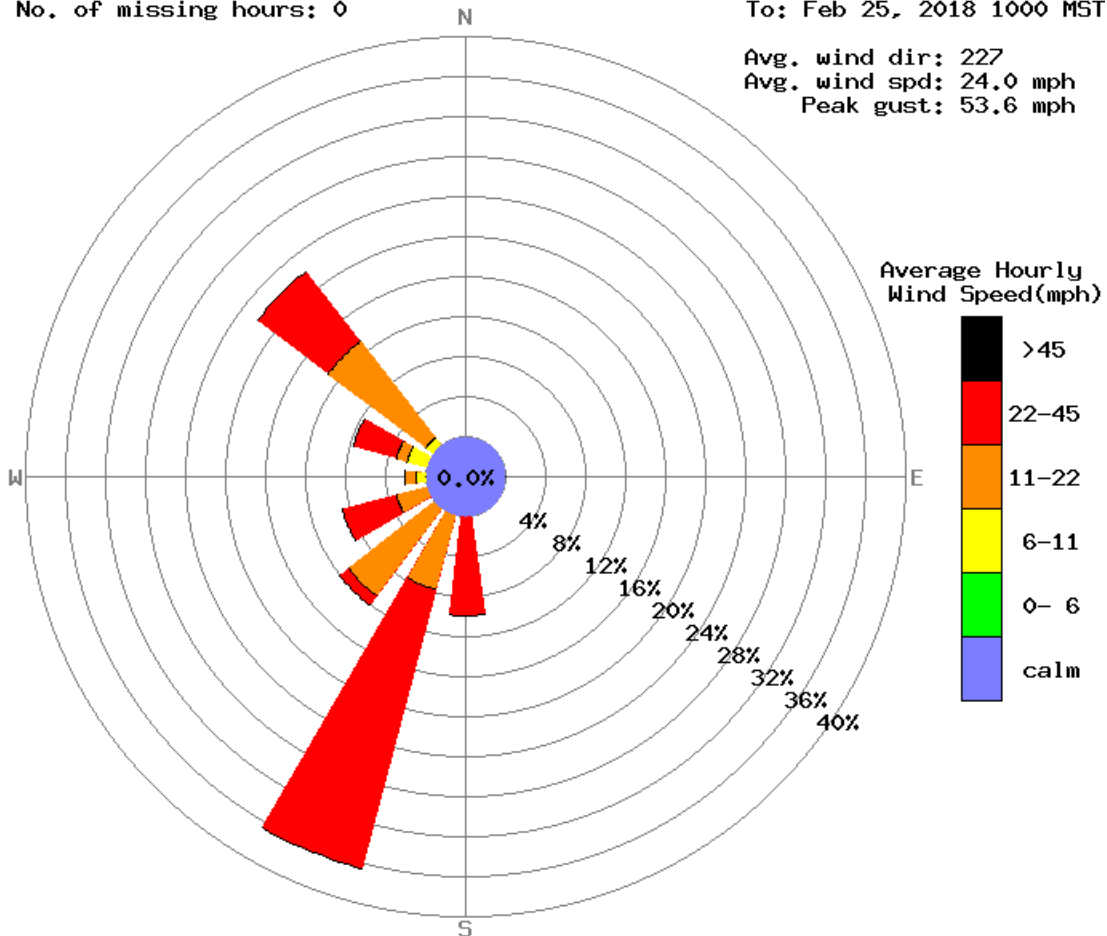
Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 90
No. of missing hours: 0

From hour ending: Feb 21, 2018 1700 MST
To: Feb 25, 2018 1000 MST

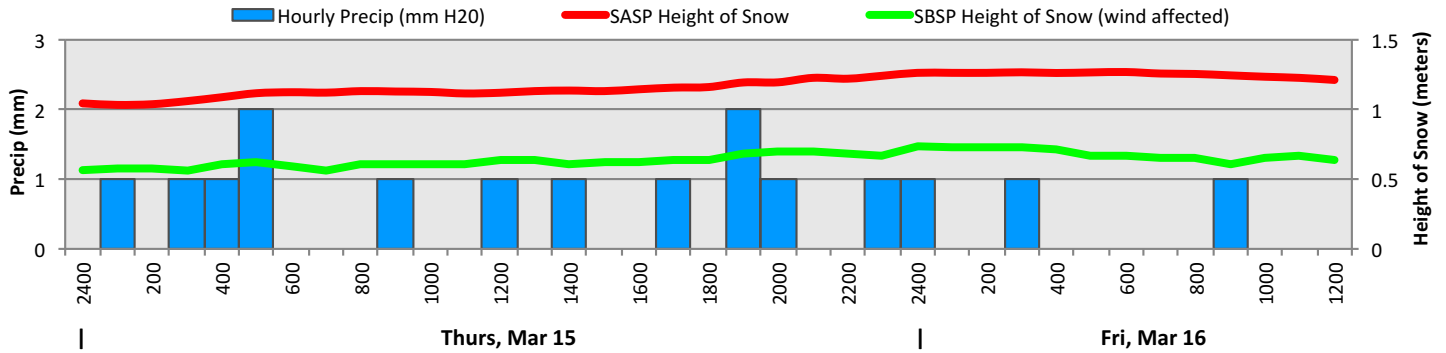
Avg. wind dir: 227
Avg. wind spd: 24.0 mph
Peak gust: 53.6 mph



2017/2018 WINTER STORM #9

2017-18 Winter Storm #9: March 15-16, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 0000 – 0100 hrs MST Thursday, March 15, 2018 (DOY 74)

Storm precipitation ended: 0900 hrs MST Friday, March 16, 2018 (DOY 75)

Storm duration = 33 hrs

Storm total water content at SASP = 16 mm (0.6 inches)

Mean precip intensity: 0.48 mm/hr

Max precip intensity: 2 mm/hour on multiple occasions on Thursday, March 15, 2018 (DOY 74)

Max gain in snow depth at SASP = 20.1 cm (7.9 inches)

Max gain in snow depth at SBSP (wind affected) = 4.3 cm (1.7 inches)

Peak gust at PTSP at: 0039 hrs MST Thursday, March 15, 2018 (DOY 75)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

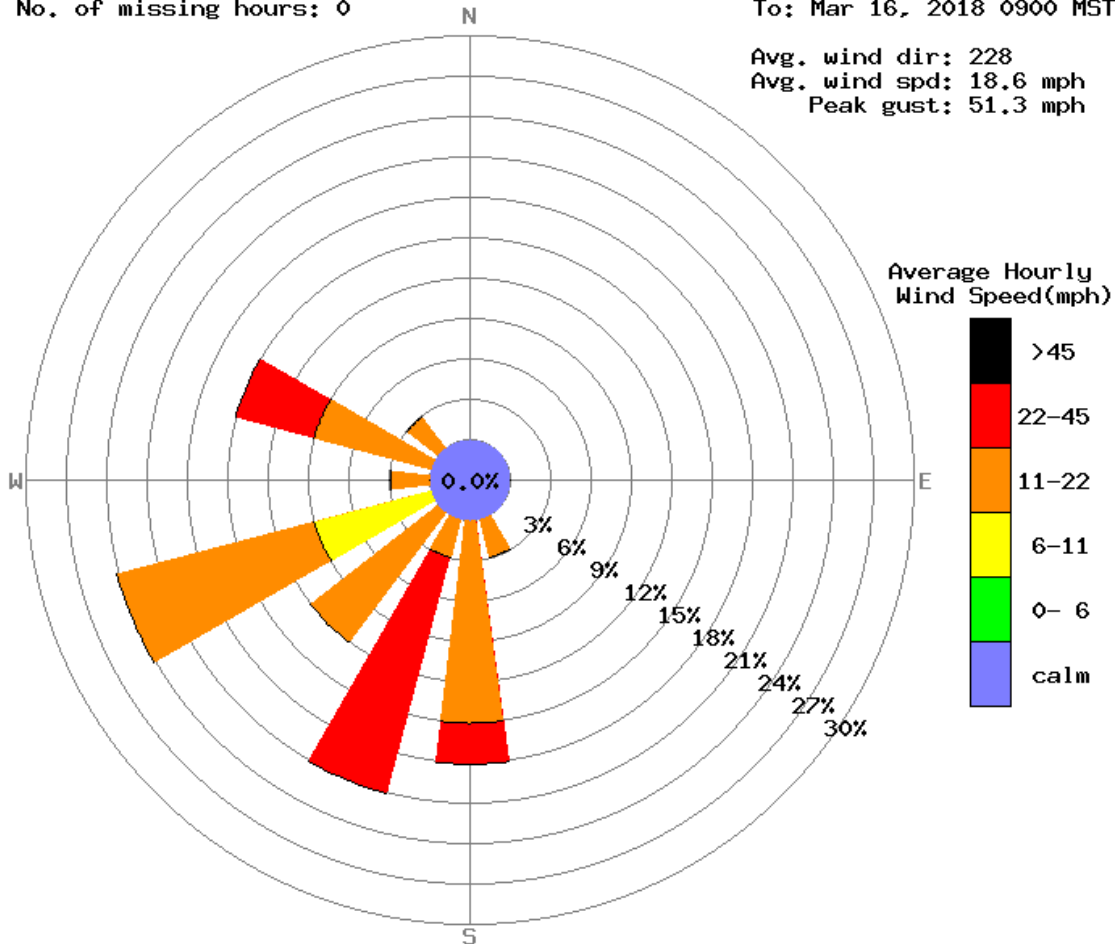
No. of hours: 33

No. of missing hours: 0

From hour ending: Mar 15, 2018 0100 MST

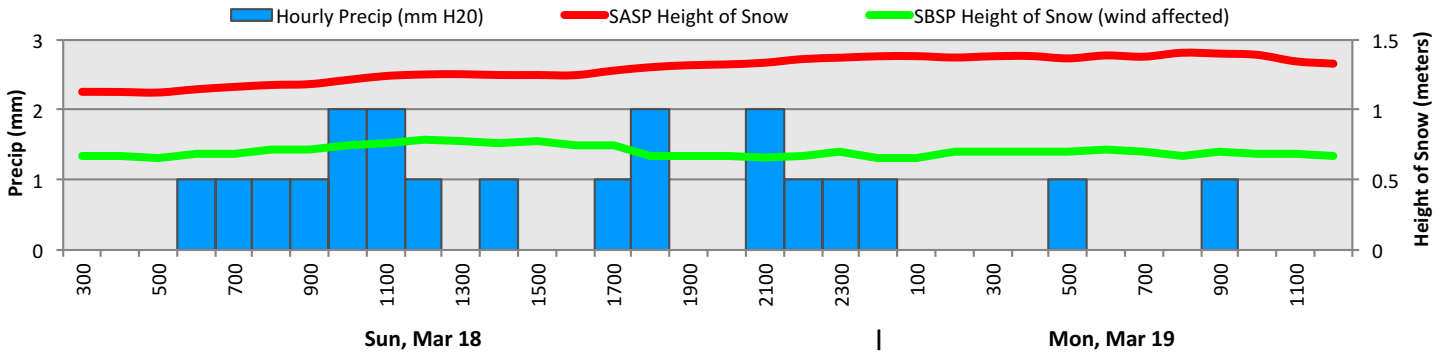
To: Mar 16, 2018 0900 MST

Avg. wind dir: 228
 Avg. wind spd: 18.6 mph
 Peak gust: 51.3 mph



2017/2018 WINTER STORM #10

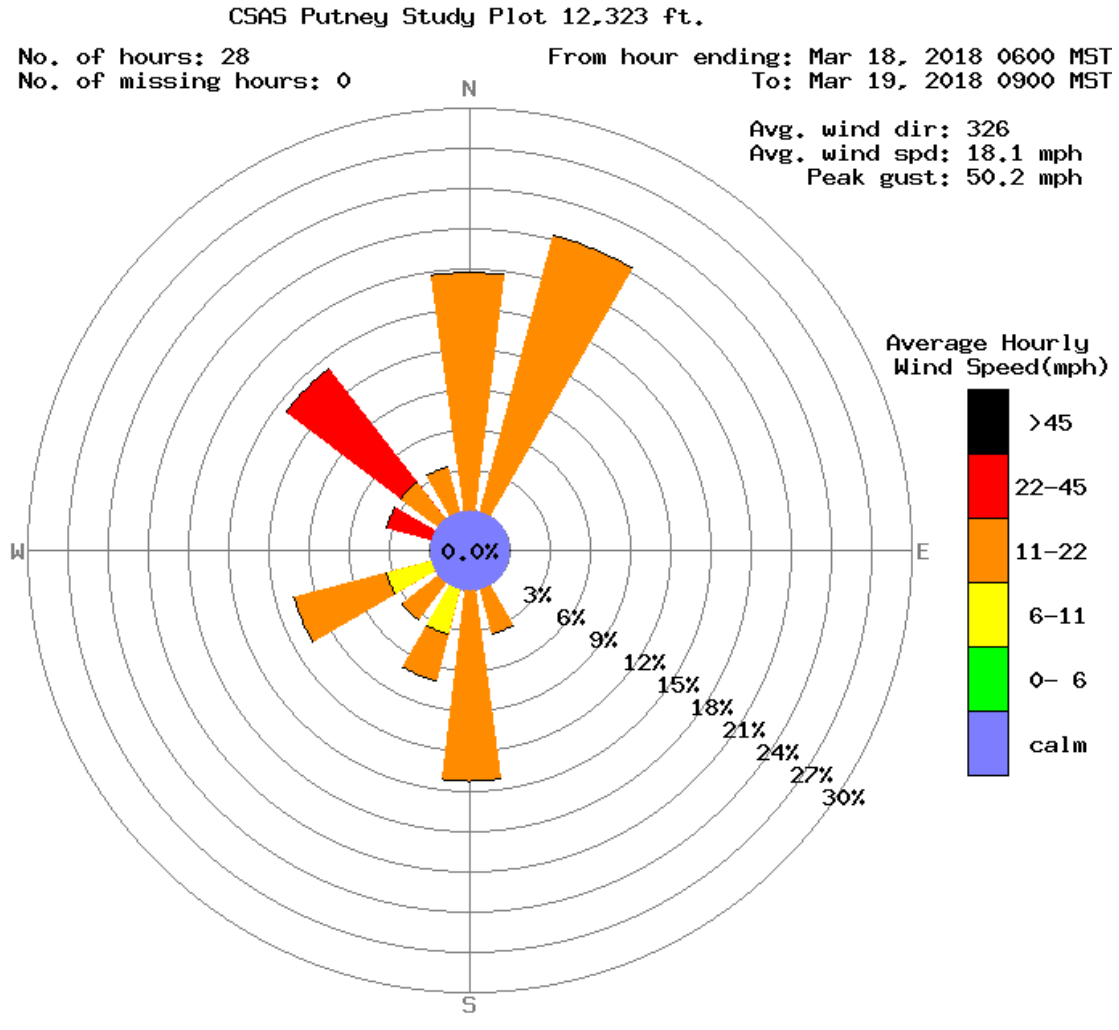
2017-18 Winter Storm #10: March 18-19, 2018
 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

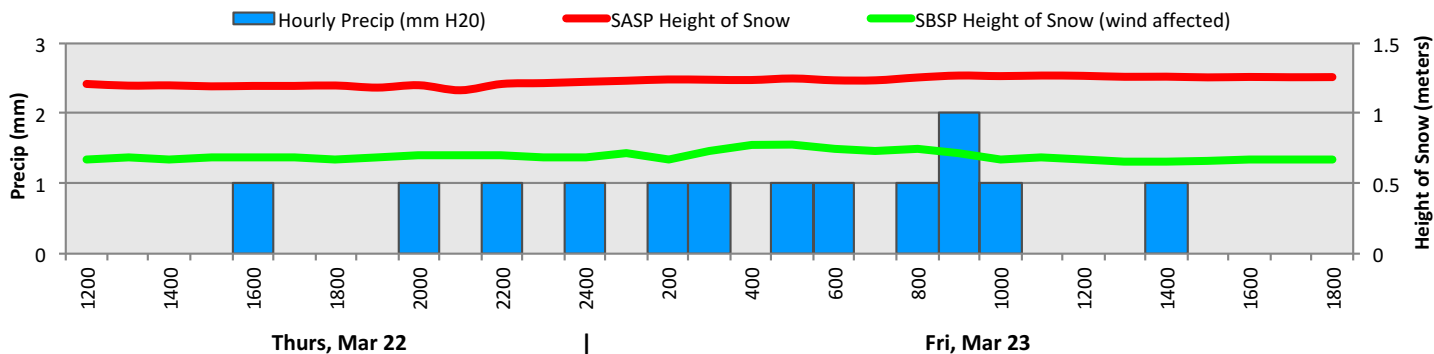
- Storm precip began between 0500 – 0600 hrs MST Sunday, March 18, 2018 (DOY 77)
- Storm precipitation ended: 0900 hrs MST Monday, March 19, 2018 (DOY 78)
- Storm duration = 28 hrs
- Storm total water content at SASP = 20 mm (0.8 inches)
- Mean precip intensity: 0.71 mm/hr
- Max precip intensity: 2 mm/hour on multiple occasions on Sunday, March 18, 2018 (DOY 77)
- Max gain in snow depth at SASP = 27.8 cm (10.9 inches)
- Max gain in snow depth at SBSP (wind affected) = 3.6 cm (1.4 inches)
- Peak gust at PTSP at: 1702 hrs MST Sunday, March 18, 2018 (DOY 77)

Storm Wind Rose (Putney Study Plot data):



2017/2018 WINTER STORM #11

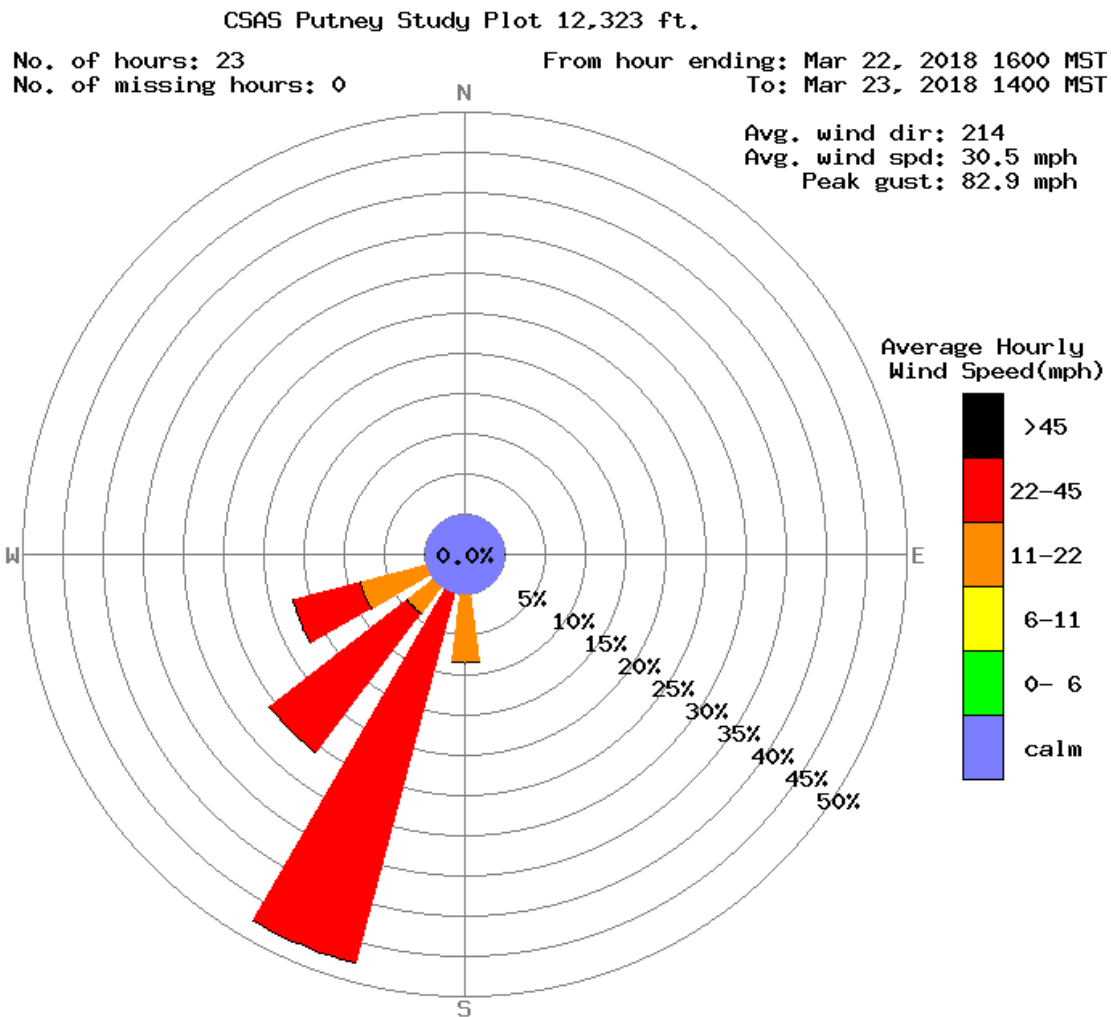
2017-18 Winter Storm #11: March 22-23, 2018
 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

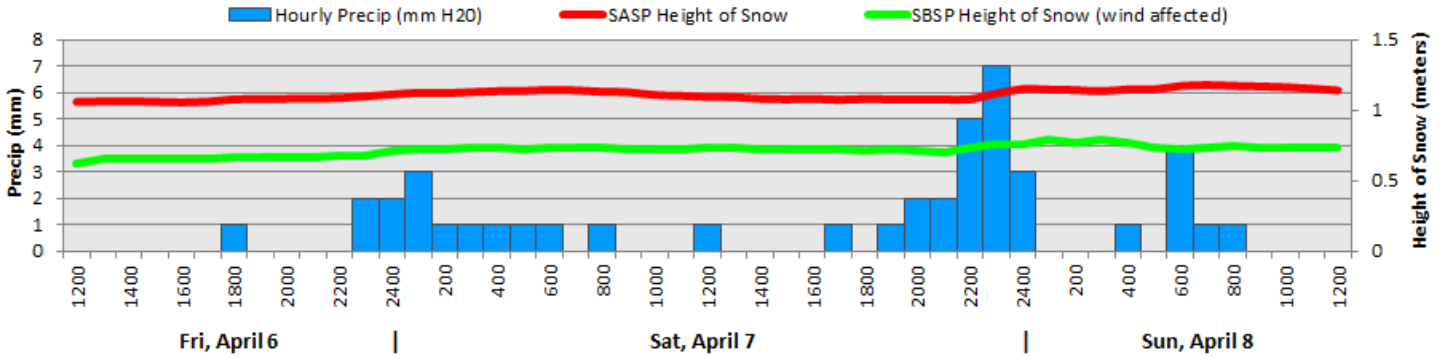
- Storm precip began between 1500 – 1600 hrs MST Thursday, March 22, 2018 (DOY 81)
- Storm precipitation ended: 1400 hrs MST Friday, March 23, 2018 (DOY 82)
- Storm duration = 23 hrs
- Storm total water content at SASP = 13 mm (0.5 inches)
- Mean precip intensity: 0.57 mm/hr
- Max precip intensity: 2 mm/hour between 0800 and 0900 hrs MST Friday, March 23, 2018 (DOY 82)
- Max gain in snow depth at SASP = 6.9 cm (2.7 inches)
- Max gain in snow depth at SBSP (wind affected) = -2.1 cm (-0.8 inches)
- Peak gust at PTSP at: 1006 hrs MST Friday, March 22, 2018 (DOY 82)

Storm Wind Rose (Putney Study Plot data):



2017/2018 WINTER STORM #12

2017-18 Winter Storm #12: April 6-8, 2018
 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precipitation began between 1700 – 1800 hrs MST Friday, April 6, 2018 (DOY 96)

Storm precipitation ended: 800 hrs MST Sunday, April 8, 2018 (DOY 98)

Storm duration = 40 hrs

Storm total water content at SASP = 43 mm (1.7 inches)

Mean precipitation intensity: 1.08 mm/hr

Max precipitation intensity: 7 mm/hour between 2200 and 2300 hrs MST Saturday, April 7, 2018 (DOY 97)

Max gain in snow depth at SASP = 11.2 cm (4.4 inches)

Max gain in snow depth at SBSP (wind affected) = 9.4 cm (3.7 inches)

Peak gust at PTSP at: 535 hrs MST Sunday, April 8, 2018 (DOY 98)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 40

No. of missing hours: 0

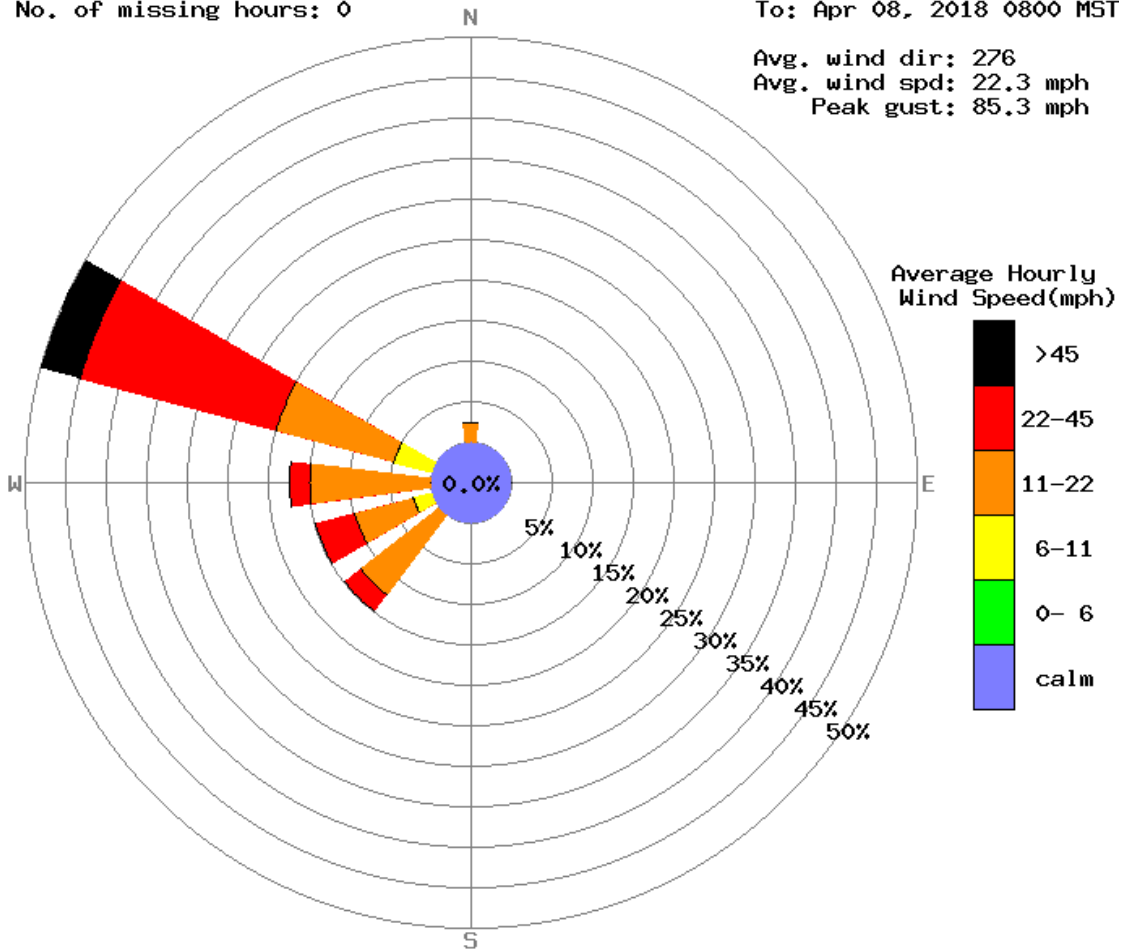
From hour ending: Apr 06, 2018 1700 MST

To: Apr 08, 2018 0800 MST

Avg. wind dir: 276

Avg. wind spd: 22.3 mph

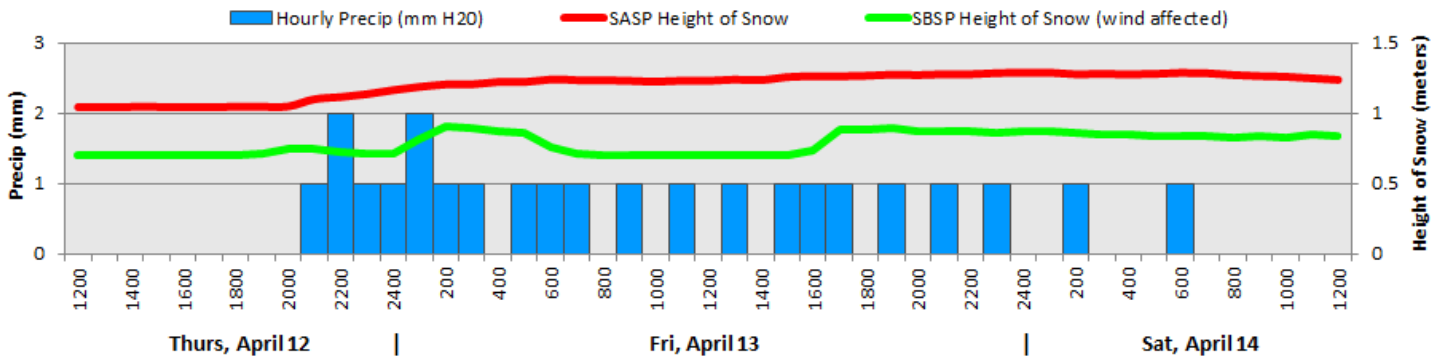
Peak gust: 85.3 mph



2017/2018 WINTER STORM #13

2017-18 Winter Storm #13: April 12-14, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precipitation began between 2000 – 2100 hrs MST Thursday, April 12, 2018 (DOY 102)

Storm precipitation ended: 600 hrs MST Saturday, April 14, 2018 (DOY 104)

Storm duration = 35 hrs

Storm total water content at SASP = 23 mm (0.9 inches)

Mean precipitation intensity: 0.66 mm/hr

Max precipitation intensity: 2 mm/hour multiple occasions

Max gain in snow depth at SASP = 23.9 cm (9.4 inches)

Max gain in snow depth at SBSP (wind affected) = 9.1 cm (3.6 inches)

Peak gust at PTSP at: 535 hrs MST Sunday, April 8, 2018 (DOY 98)

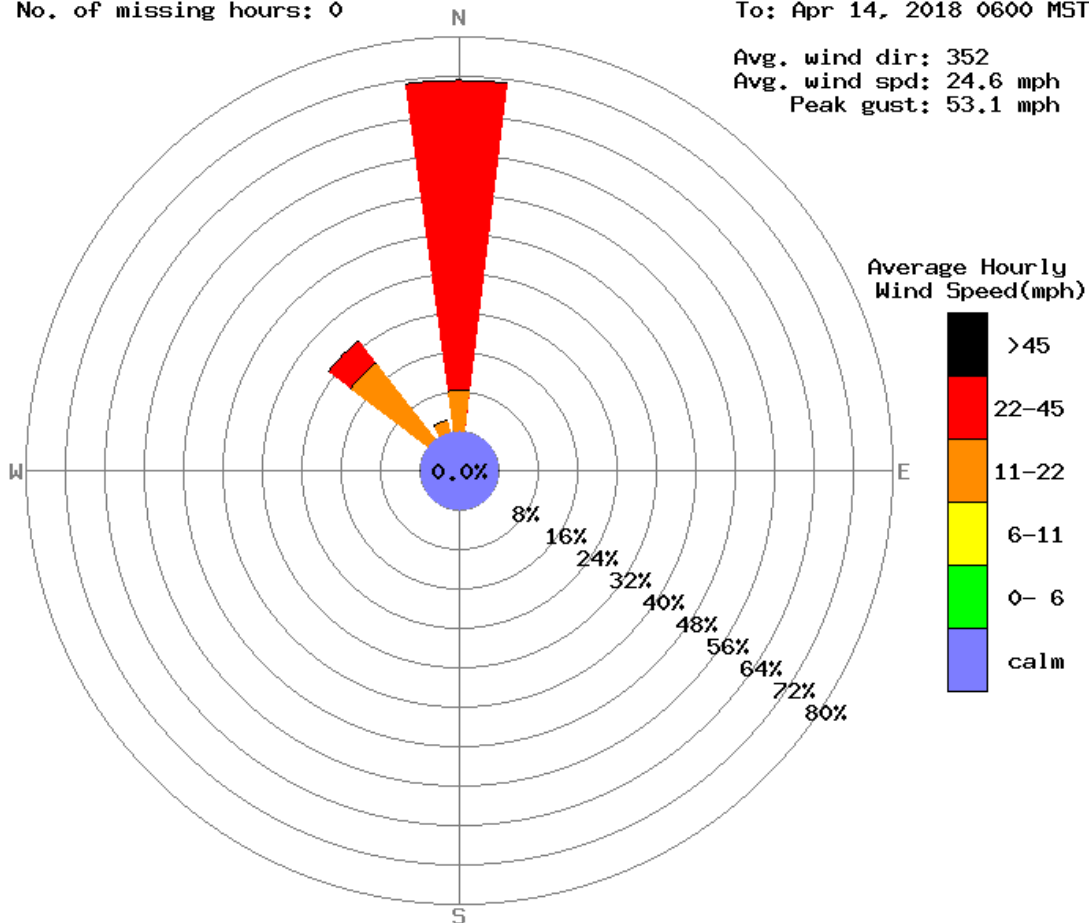
Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 35
No. of missing hours: 0

From hour ending: Apr 12, 2018 2000 MST
To: Apr 14, 2018 0600 MST

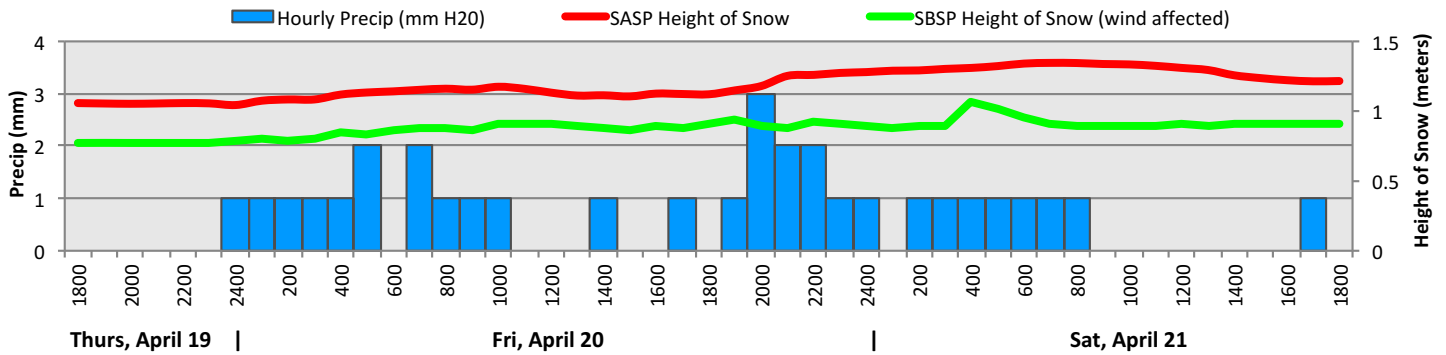
Avg. wind dir: 352
Avg. wind spd: 24.6 mph
Peak gust: 53.1 mph



2017/2018 WINTER STORM #14

2017-18 Winter Storm #14: April 19-21, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 2300 – 2400 hrs MST Thursday, April 19, 2018 (DOY 109)

Storm precipitation ended: 1700 hrs MST Saturday, April 21, 2018 (DOY 111)

Storm duration = 43 hrs

Storm total water content at SASP = 32 mm (1.3 inches)

Mean precip intensity: 0.74 mm/hr

Max precip intensity: 3 mm/hour between 1900 and 2000 hrs MST Friday, April 20, 2018 (DOY 110)

Max gain in snow depth at SASP = 15.8 cm (6.2 inches)

Max gain in snow depth at SBSP (wind affected) = 13.7 cm (5.4 inches)

Peak gust at PTSP at: 0043 hrs MST Friday, April 20, 2018 (DOY 110)

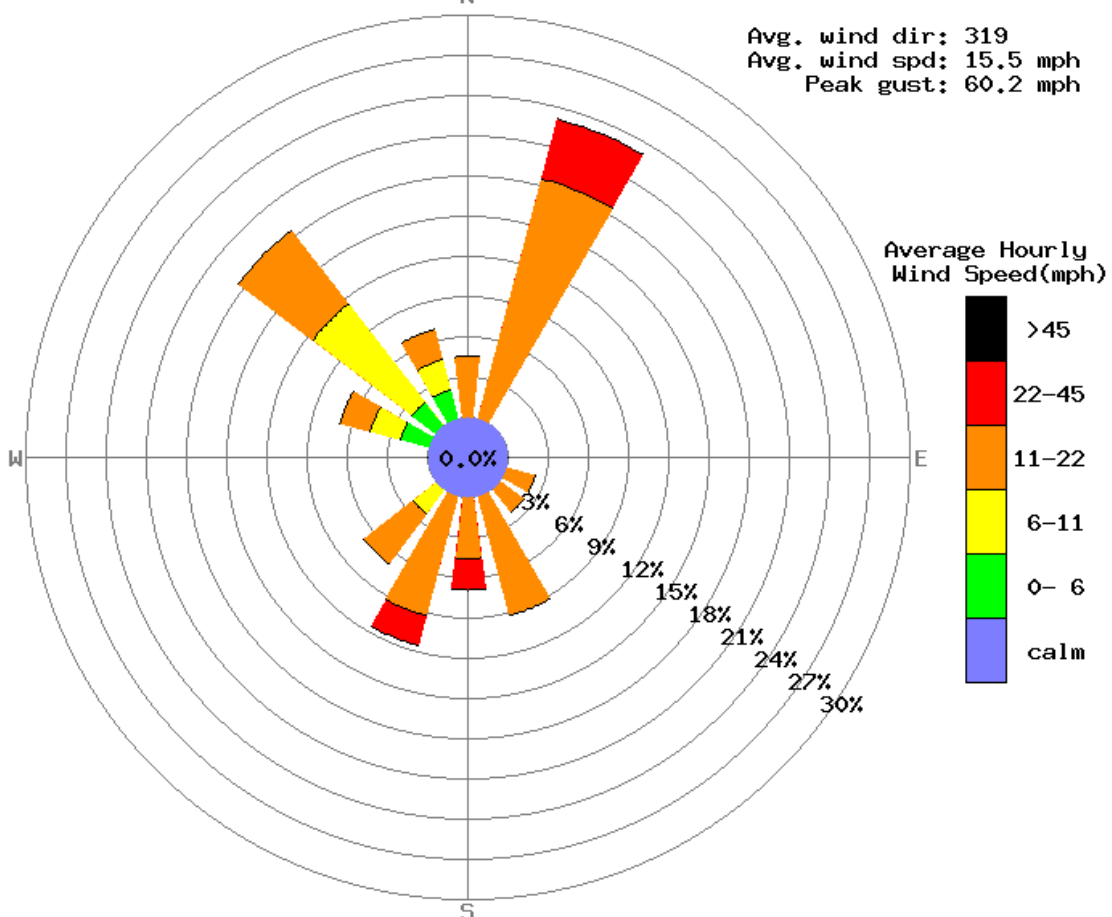
Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 43
No. of missing hours: 0

From hour ending: Apr 19, 2018 2300 MST
To: Apr 21, 2018 1700 MST

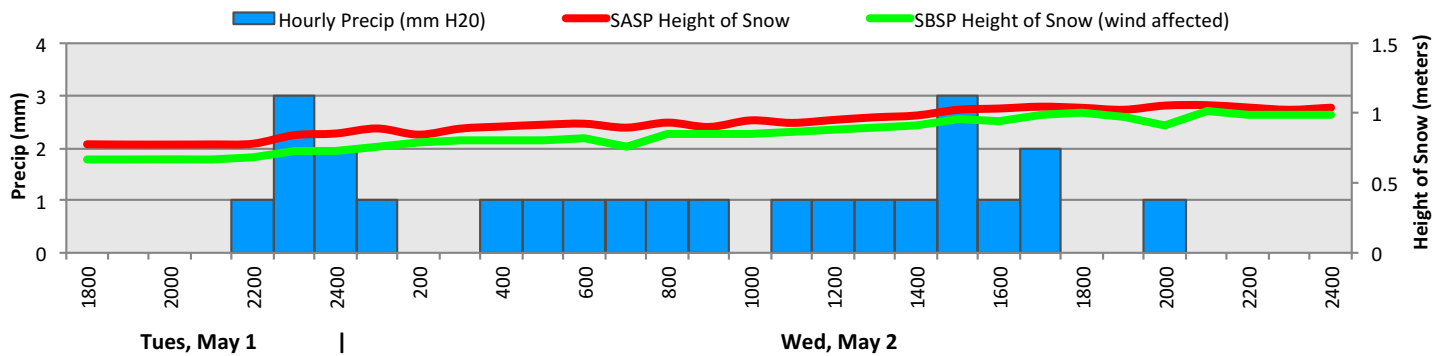
Avg. wind dir: 319
Avg. wind spd: 15.5 mph
Peak gust: 60.2 mph



2017/2018 WINTER STORM #15

2017-18 Winter Storm #15: May 1-2, 2018

Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 2100 – 2200 hrs MST Tuesday, May 1, 2018 (DOY 121)

Storm precipitation ended: 2000 hrs MST Wednesday, May 2, 2018 (DOY 122)

Storm duration = 23 hrs

Storm total water content at SASP = 24 mm (0.9 inches)

Mean precip intensity: 1.04 mm/hr

Max precip intensity: 3 mm/hour on multiple occasions on multiple days

Max gain in snow depth at SASP = 27.8 cm (10.9 inches)

Max gain in snow depth at SBSP (wind affected) = 24.1 cm (9.5 inches)

Peak gust at PTSP at: 0800 hrs MST Wednesday, May 2, 2018 (DOY 122)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 23

No. of missing hours: 0

From hour ending: May 01, 2018 2200 MST

To: May 02, 2018 2000 MST

Avg. wind dir: 170

Avg. wind spd: 13.9 mph

Peak gust: 41.9 mph

