

Storm precipitation began: 2300 – 2400 MST Sat, October 22, 2022 (DOY 295)

Storm precipitation ended: 1000 MST Mon, October 24, 2022 (DOY 297)

Storm duration: 36 hours

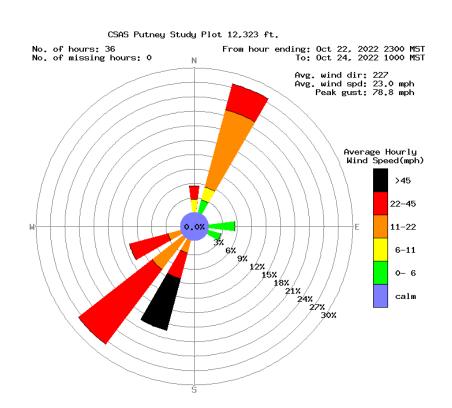
Mean precipitation intensity: 0.78 mm/hour

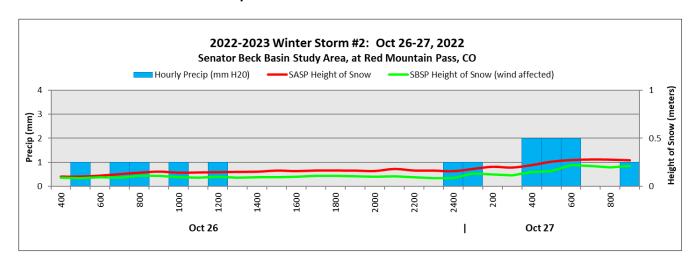
Max precipitation intensity: 4 mm/hour at 0500 on Sun, October 23, 2022

Storm total water content at SASP: 28 mm (1.1 inches)
Max gain in snow depth at SASP: 24.8 cm (9.8 inches)

Max gain in snow depth at SBSP: 18.8 cm (7.4 inches) *wind affected

Peak gust at PTSP at: 0110 MST Sun, October 23, 2022 (DOY 296)





Storm precipitation began: 400-500 MST Mon, October 26, 2022 (DOY 299) **Storm precipitation ended:** 0900 MST Tue, October 27, 2022 (DOY 300)

Storm duration: 30 hours

Mean precipitation intensity: 0.47 mm/hour

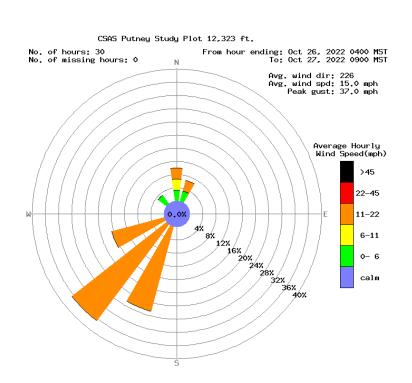
Max precipitation intensity: 2 mm/hour at 0600 on Tue, October 27, 2022

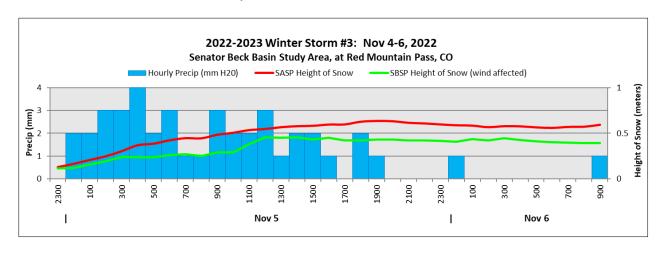
Storm total water content at SASP: 14 mm (0.6 inches)

Max gain in snow depth at SASP: 16.6 cm (6.5 inches)

Max gain in snow depth at SBSP: 12.3 cm (4.8 inches) *wind affected

Peak gust at PTSP at: 0113 MST Tue, October 27, 2022 (DOY 300)





Storm precipitation began: 2300-2400 MST Fri, November 4, 2022 (DOY 306) **Storm precipitation ended:** 0900 MST Sun, November 6, 2022 (DOY 308)

Storm duration: 35 hours

Mean precipitation intensity: 1.2 mm/hour

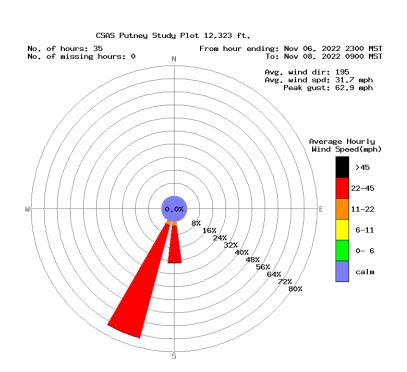
Max precipitation intensity: 4 mm/hour at 0400 on Sat, November 5, 2022

Storm total water content at SASP: 42 mm (1.7 inches)

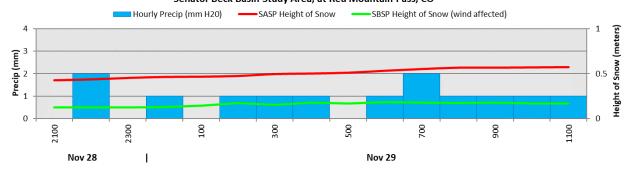
Max gain in snow depth at SASP: 46.3 cm (18.2 inches)

Max gain in snow depth at SBSP: 27.7 cm (10.9 inches) *wind affected

Peak gust at PTSP at: 2213 MST Fri, November 4, 2022 (DOY 306)



2022-2023 Winter Storm #4: Nov 28-29, 2022 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm precipitation began: 2100-2200 MST Mon, November 28, 2022 (DOY 332)

Storm precipitation ended: 1100 MST Tue, November 29, 2022 (DOY 333)

Storm duration: 15 hours

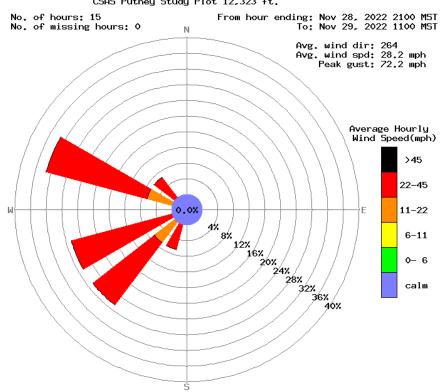
Mean precipitation intensity: 0.87 mm/hour

Max precipitation intensity: 2 mm/hour at 0700 on Tue, November 29, 2022

Storm total water content at SASP: 13 mm (0.5 inches) Max gain in snow depth at SASP: 14.6 cm (5.7 inches)

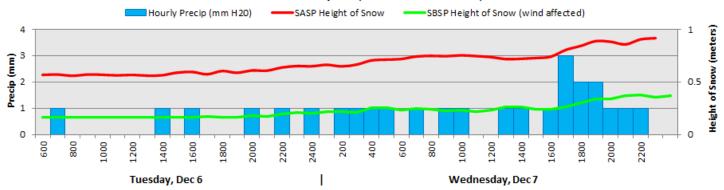
Max gain in snow depth at SBSP: 4.4 cm (1.7 inches) *wind affected

Peak gust at PTSP at: 0446 MST Tue, November 29, 2022 (DOY 333)



2022-2023 Winter Storm #5: Dec 6-7, 2022

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



Storm Summary Statistics:

Storm precip began between 600 – 700 hrs MST Tuesday, December 6, 2022 (DOY 340) **Storm precipitation ended**: 2300 hrs MST Wednesday, December 7, 2022 (DOY 341)

Storm duration = 28 hrs

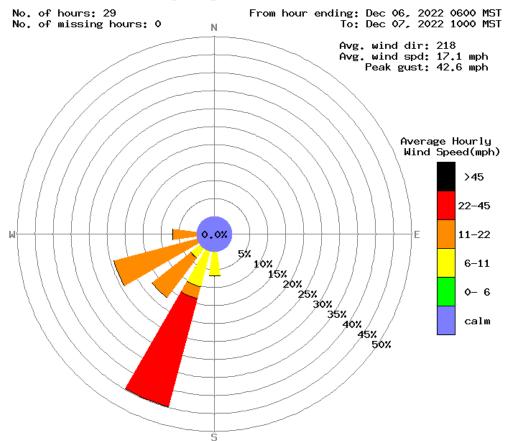
Storm total water content at SASP = 26 mm (1.0 inches)

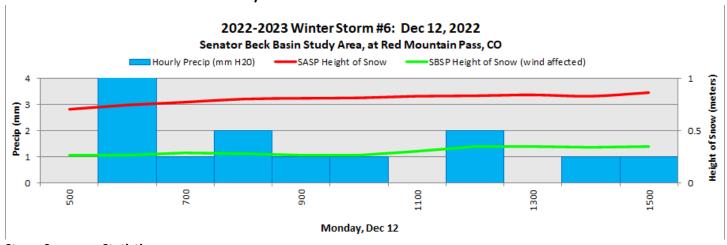
Mean precip intensity: 0.93 mm/hr Max precip intensity: 3 mm/hour

Max gain in snow depth at SASP = 35.1 cm (13.8 inches)

Max gain in snow depth at SBSP (wind affected) = 20.4 cm (8.0 inches)
Peak gust at PTSP at: 2311 hrs MST Thursday, December 7, 2022 (DOY 341)

Storm Wind Rose (Putney Study Plot data)





Storm Summary Statistics:

Storm precip began between 500 – 600 hrs MST Monday, December 12, 2022 (DOY 346) **Storm precipitation ended**: 1500 hrs MST Wednesday, December 12, 2022 (DOY 346)

Storm duration = 11 hrs

Storm total water content at SASP = 14 mm (0.6 inches)

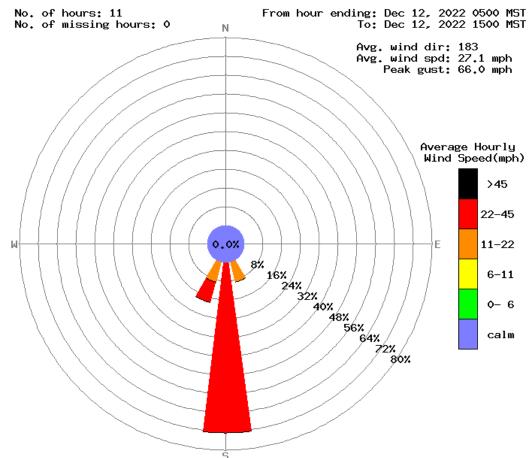
Mean precip intensity: 1.27 mm/hr Max precip intensity: 5 mm/hour at 0600

Max gain in snow depth at SASP = 16 cm (6.3 inches)

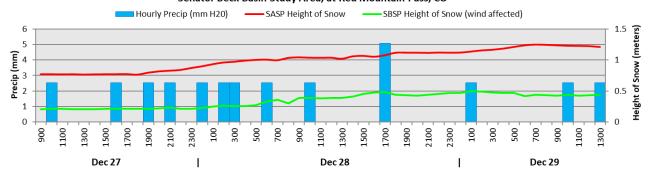
Max gain in snow depth at SBSP (wind affected) = 8 cm (3.1 inches)

Peak gust at PTSP at: 726 hrs MST Monday, December 12, 2022 (DOY 346)

Storm Wind Rose (Putney Study Plot data)



2022-2023 Winter Storm #7: Dec 27-29, 2022 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm precipitation began: 900-1000 MST December 27, 2022 (DOY 361) Storm precipitation ended: 1300 MST December 29, 2022 (DOY 363)

Storm duration: 53 hours

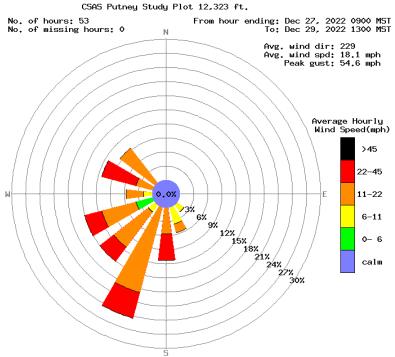
Mean precipitation intensity: 0.67 mm/hour

Max precipitation intensity: 5.08 mm/hour at 1700 on December 28, 2022

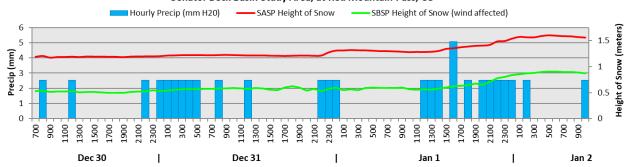
Storm total water content at SASP: 36 mm (1.4 inches) Max gain in snow depth at SASP: 44.1 cm (17.4 inches)

Max gain in snow depth at SBSP: 23.2 cm (9.1 inches) *wind affected Peak gust at PTSP at: 1209 MST December 27, 2022 (DOY 361)





2022-2023 Winter Storm #8: Dec 30 - Jan 2, 2023 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm precipitation began: 700-800 MST December 30, 2022 (DOY 364)

Storm precipitation ended: 1000 MST January 2, 2023 (DOY 2)

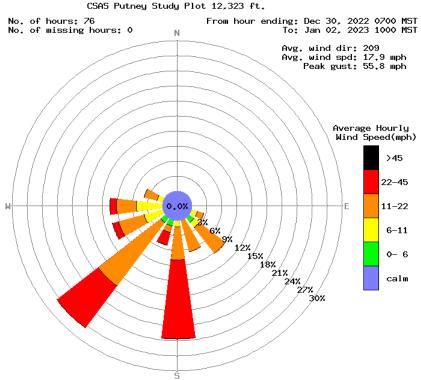
Storm duration: 76 hours

Mean precipitation intensity: 0.9 mm/hour

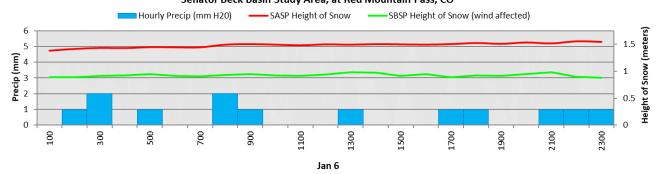
Max precipitation intensity: 5.08 mm/hour at 1600 on January 1, 2023

Storm total water content at SASP: 69 mm (1.4 inches) Max gain in snow depth at SASP: 37.2 cm (14.6 inches)

Max gain in snow depth at SBSP: 34 cm (13.4 inches) *wind affected Peak gust at PTSP at: 0026 MST January 2, 2023 (DOY 2)



2022-2023 Winter Storm #9: Jan 6, 2023 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm precipitation began: 100-200 MST January 6, 2023 (DOY 6) **Storm precipitation ended:** 2300 MST January 6, 2023 (DOY 6)

Storm duration: 23 hours

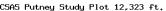
Mean precipitation intensity: 0.57 mm/hour

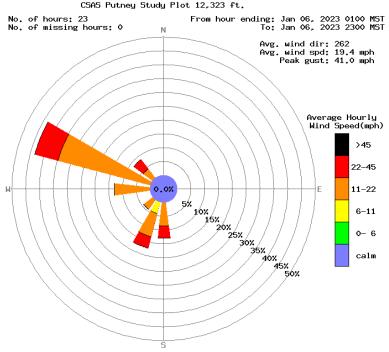
Max precipitation intensity: 2 mm/hour at 800 on January 6, 2023 (DOY 6)

Storm total water content at SASP: 13 mm (0.5 inches) Max gain in snow depth at SASP: 16.8 cm (6.6 inches)

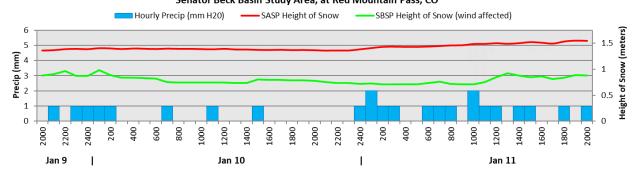
Max gain in snow depth at SBSP: 0 cm (0 inches) *wind affected Peak gust at PTSP at:

1351 MST January 6, 2023 (DOY 6)





2022-2023 Winter Storm #10: Jan 9-11, 2023 Senator Beck Basin Study Area, at Red Mountain Pass, CO



2000-2100 MST January 9, 2023 (DOY 9) Storm precipitation began:

Storm precipitation ended: 2000 MST January 9, 2023 (DOY 9)

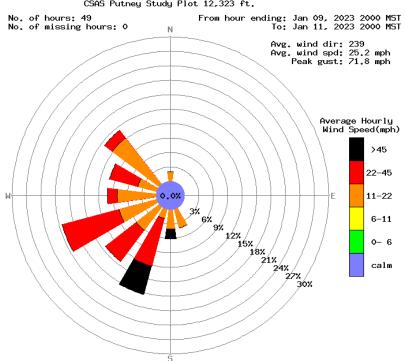
Storm duration: 49 hours

Mean precipitation intensity: 0.49 mm/hour

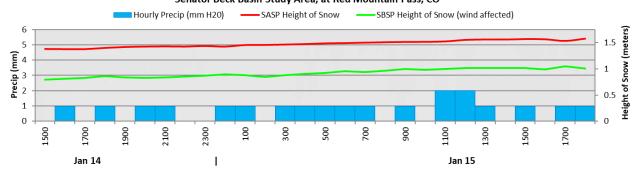
2 mm/hour at 1000 on January 11, 2023 (DOY 11) Max precipitation intensity:

Storm total water content at SASP: 24 mm (0.9 inches) Max gain in snow depth at SASP: 18.5 cm (7.3 inches)

Max gain in snow depth at SBSP: 0.3 cm (0.1 inches) *wind affected Peak gust at PTSP at: 2109 MST January 10, 2023 (DOY 10)



2022-2023 Winter Storm #11: Jan 14-15, 2023 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm precipitation began: 1500-1600 MST January 14, 2023 (DOY 14)

1800 MST January 15, 2023 (DOY 15) Storm precipitation ended:

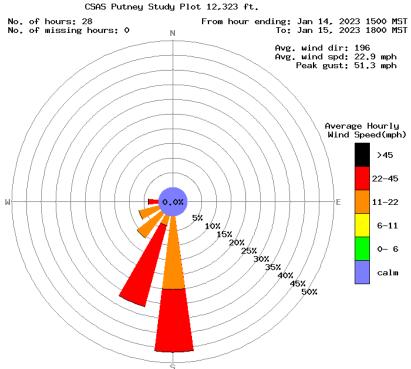
Storm duration: 28 hours

Mean precipitation intensity: 0.71 mm/hour

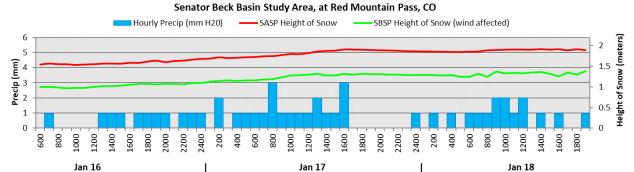
Max precipitation intensity: 2 mm/hour at 1200 on January 15, 2023 (DOY 15)

Storm total water content at SASP: 20 mm (0.8 inches) Max gain in snow depth at SASP: 19.8 cm (7.8 inches)

Max gain in snow depth at SBSP: 21.6 cm (8.5 inches) *wind affected Peak gust at PTSP at: 114 MST January 15, 2023 (DOY 15)



2022-2023 Winter Storm #12: Jan 16-18, 2023



600-700 MST January 16, 2023 (DOY 16) Storm precipitation began: Storm precipitation ended: 1900 MST January 18, 2023 (DOY 18)

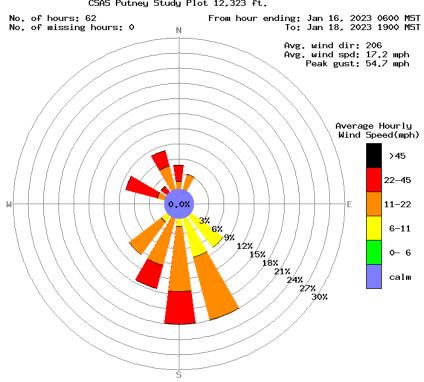
Storm duration: 62 hours

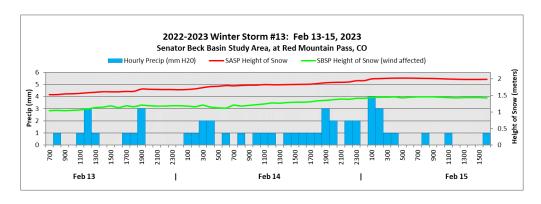
Mean precipitation intensity: 0.76 mm/hour

Max precipitation intensity: 3 mm/hour at 1600 on January 17, 2023 (DOY 17)

Storm total water content at SASP: 47 mm (1.9 inches) Max gain in snow depth at SASP: 35.1 cm (13.8 inches)

38.1 cm (15.0 inches) *wind affected Max gain in snow depth at SBSP: Peak gust at PTSP at: 1141 MST January 17, 2023 (DOY 17)





Storm precipitation began: 700-800 MST February 13, 2023 (DOY 44) Storm precipitation ended: 1600 MST February 15, 2023 (DOY 46)

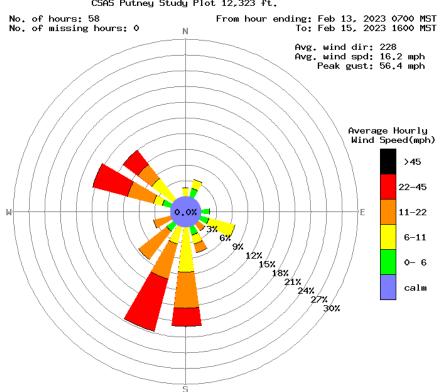
Storm duration: 58 hours

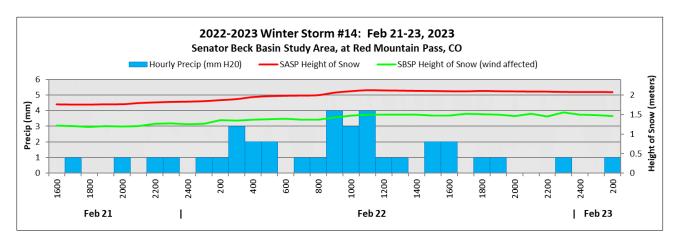
Mean precipitation intensity: 0.83 mm/hour

Max precipitation intensity: 4 mm/hour at 100 on February 15, 2023 (DOY 46)

Storm total water content at SASP: 48 mm (1.9 inches) Max gain in snow depth at SASP: 45.8 cm (18.0 inches)

Max gain in snow depth at SBSP: 39.2 cm (15.4 inches) *wind affected Peak gust at PTSP at: 444 MST February 15, 2023 (DOY 46)





Storm precipitation began: 1600-1700 MST February 21, 2023 (DOY 52)

Storm precipitation ended: 300 MST February 23, 2023 (DOY 54)

Storm duration: 35 hours

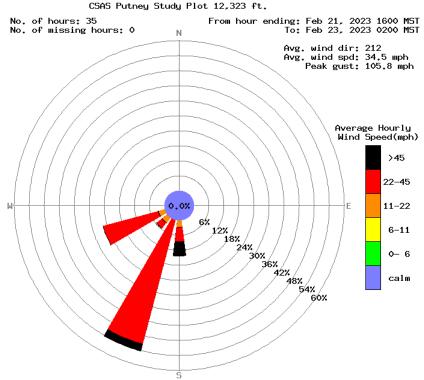
Mean precipitation intensity: 1.03 mm/hour

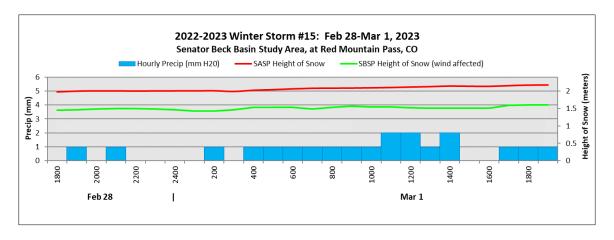
Max precipitation intensity: 4 mm/hour at 1100 on February 22, 2023 (DOY 53)

Storm total water content at SASP: 36 mm (1.4 inches) Max gain in snow depth at SASP: 31.8 cm (12.5 inches)

24.5 cm (9.6 inches) *wind affected Max gain in snow depth at SBSP: 958 MST February 22, 2023 (DOY 53) Peak gust at PTSP at:







Storm precipitation began: 1800-1900 MST February 28, 2023 (DOY 59)

Storm precipitation ended: 1900 MST March 1, 2023 (DOY 60)

Storm duration: 26 hours

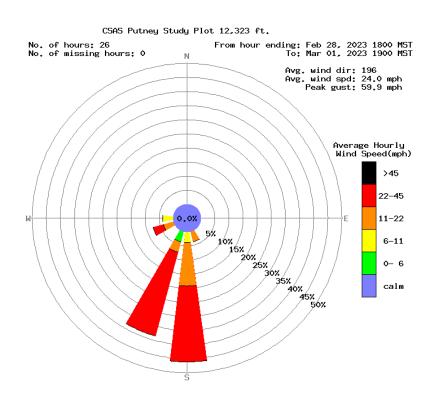
Mean precipitation intensity: 0.77 mm/hour

Max precipitation intensity: 2 mm/hour at 1400 on March 1, 2023 (DOY 60)

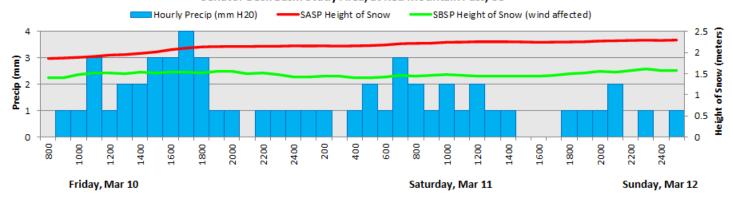
Storm total water content at SASP: 20 mm (0.8 inches)

Max gain in snow depth at SASP: 20.3 cm (8 inches)

Max gain in snow depth at SBSP: 15 cm (5.9 inches) *wind affected Peak gust at PTSP at: 357 MST March 1, 2023 (DOY 60)



2022-2023 Winter Storm #16: March 10-12, 2023 Senator Beck Basin Study Area, at Red Mountain Pass, CO



Storm Summary Statistics:

Storm precip began between 800 – 900 hrs MST Friday, March 10, 2023 (DOY 69)

Storm precipitation ended: 100 hrs MST Sunday, March 12, 2023 (DOY 71)

Storm duration = 42 hrs

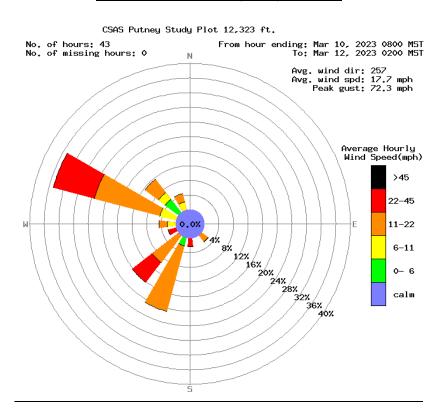
Storm total water content at SASP = 54 mm (2.1 inches)

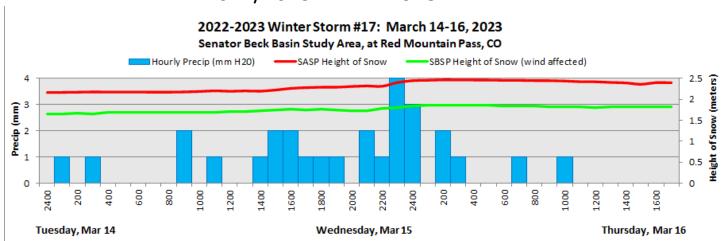
Mean precip intensity: 1.29 mm/hr

Max precip intensity: 4 mm/hour at 1700 on day 69 Max gain in snow depth at SASP = 42.2 cm (16.6 inches)

Max gain in snow depth at SBSP (wind affected) = 17.3 cm (6.8 inches) Peak gust at PTSP at: 400 hrs MST Saturday, March 11, 2023 (DOY 70)

Storm Wind Rose (Putney Study Plot data)





Storm Summary Statistics:

Storm precip began between 2400 – 100 hrs MST Tuesday, March 14, 2023 (DOY 73)

Storm precipitation ended: 1800 hrs MST Thursday, March 16, 2023 (DOY 75)

Storm duration = 43 hrs

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

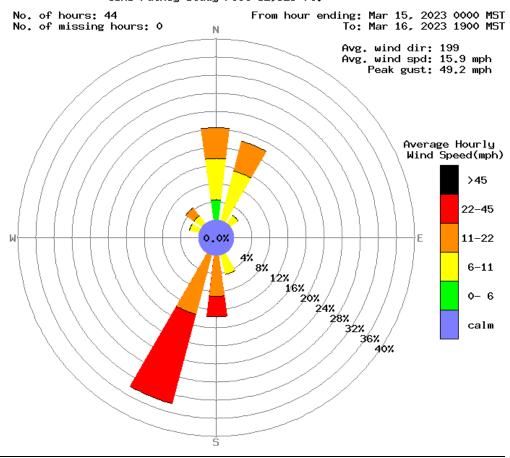
Mean precip intensity: 0.67 mm/hr

Max precip intensity: 4 mm/hour at 2300 on day 74 Max gain in snow depth at SASP = 21.7 cm (8.5 inches)

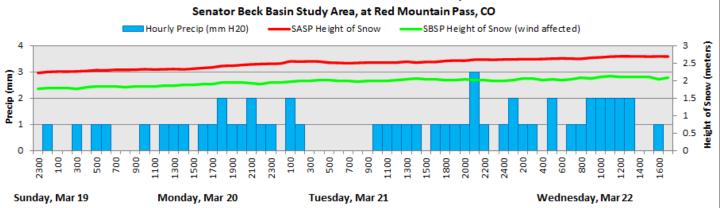
Max gain in snow depth at SBSP (wind affected) = 16.6 cm (6.5 inches) Peak gust at PTSP at: 2400 hrs MST Tuesday, March 14, 2023 (DOY 73)

Storm Wind Rose (Putney Study Plot data)





2022-2023 Winter Storm #18: March 19-22, 2023



Storm Summary Statistics:

Storm precip began between 2300 – 2400 hrs MST Sunday, March 19, 2023 (DOY 78) **Storm precipitation ended**: 1700 hrs MST Wednesday, March 22, 2023 (DOY 81)

Storm duration = 67 hrs

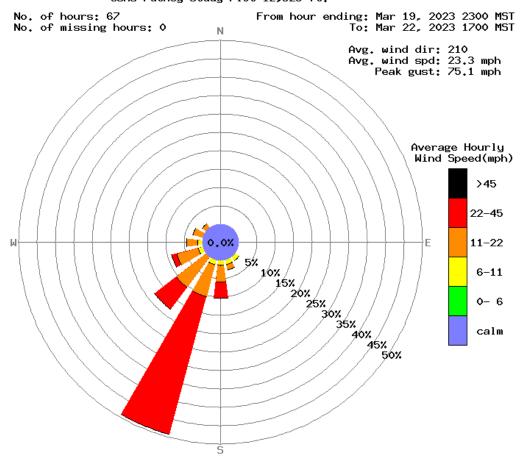
Storm total water content at SASP = 55 mm (2.2 inches)

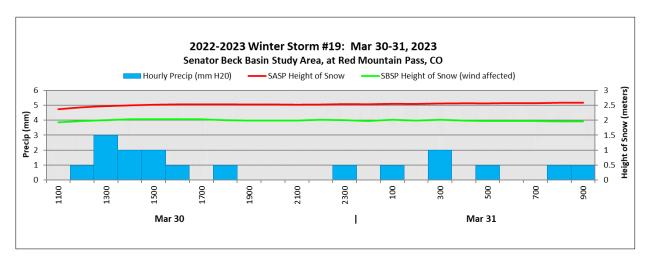
Mean precip intensity: 0.82 mm/hr

Max precip intensity: 3 mm/hour at 2100 on day 80 Max gain in snow depth at SASP = 46.2 cm (18.2 inches)

Max gain in snow depth at SBSP (wind affected) = 32.0 cm (12.6 inches)
Peak gust at PTSP at: 1236 hrs MST Wednesday, March 22, 2023 (DOY 81)

Storm Wind Rose (Putney Study Plot data)





Storm precipitation began: 1000-1100 MST March 30, 2023 (DOY 89)

Storm precipitation ended: 900 MST March 31, 2023 (DOY 90)

Storm duration: 23 hours

Mean precipitation intensity: 0.74 mm/hour

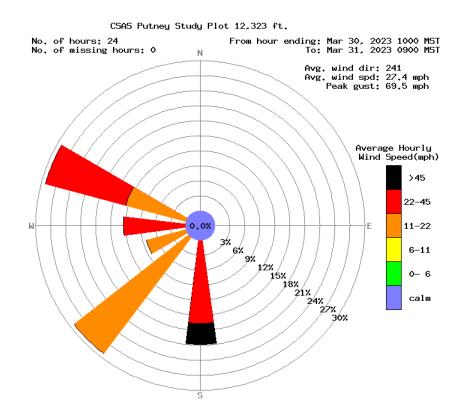
Max precipitation intensity: 3 mm/hour at 1300 on March 30, 2023 (DOY 89)

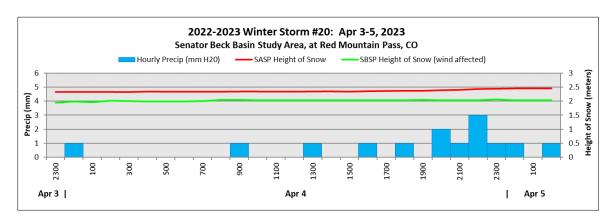
Storm total water content at SASP: 17 mm (0.7 inches)

Max gain in snow depth at SASP: 21.4 cm (8.4 inches)

Max gain in snow depth at SBSP: 2.9 cm (1.1 inches) *wind affected

Peak gust at PTSP at: 1007 MST March 30, 2023 (DOY 89)





Storm precipitation began: 2300-2400 MST April 3, 2023 (DOY 93) **Storm precipitation ended:** 0200 MST April 5, 2023 (DOY 95)

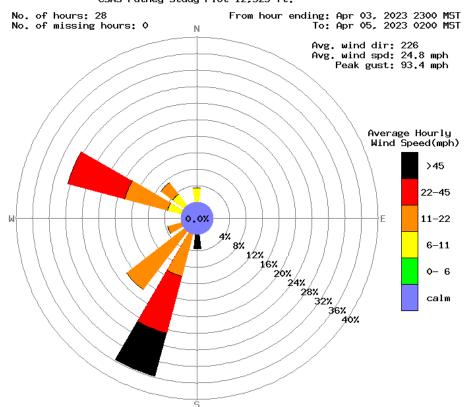
Storm duration: 28 hours

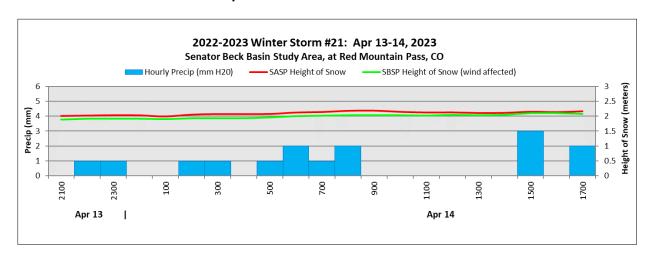
Mean precipitation intensity: 0.50 mm/hour

Max precipitation intensity: 3 mm/hour at 2200 on April 4, 2023 (DOY 94)

Storm total water content at SASP: 14 mm (0.6 inches)
Max gain in snow depth at SASP: 12.2 cm (4.8 inches)

Max gain in snow depth at SBSP: 9.3 cm (3.7 inches) *wind affected Peak gust at PTSP at: 0042 MST April 4, 2023 (DOY 94)





Storm precipitation began: 2100-2200 MST April 13, 2023 (DOY 103) Storm precipitation ended: 1700 MST April 14, 2023 (DOY 104)

Storm duration: 21 hours

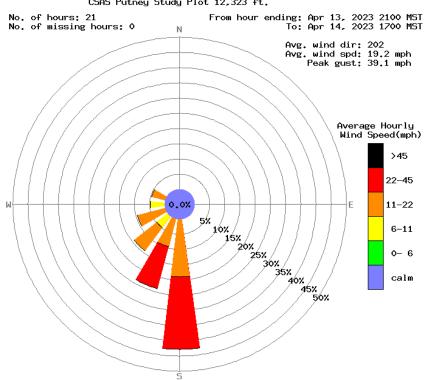
Mean precipitation intensity: 0.71 mm/hour

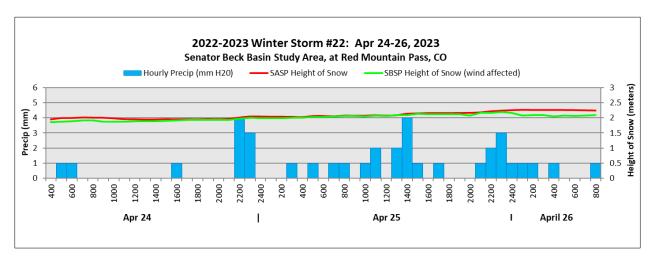
Max precipitation intensity: 3 mm/hour at 1500 on April 14, 2023 (DOY 104)

Storm total water content at SASP: 15 mm (0.6 inches) Max gain in snow depth at SASP: 15.2 cm (6 inches)

Max gain in snow depth at SBSP: 18.8 cm (7.4 inches) *wind affected 1627 MST April 4, 2023 (DOY 104) Peak gust at PTSP at:







Storm precipitation began: 0400-0500 MST April 24, 2023 (DOY 114) 0800 MST April 26, 2023 (DOY 116) Storm precipitation ended:

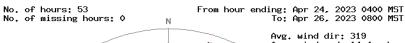
Storm duration: 53 hours

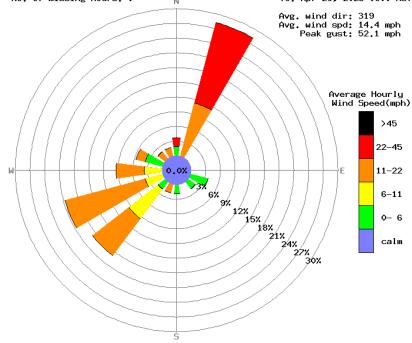
Mean precipitation intensity: 0.68 mm/hour

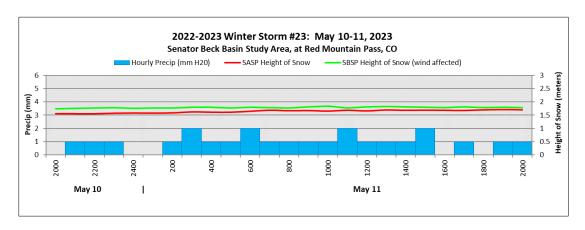
Max precipitation intensity: 4 mm/hour at 1400 on April 25, 2023 (DOY 115)

Storm total water content at SASP: 36 mm (1.4 inches) Max gain in snow depth at SASP: 29.4 cm (11.6 inches)

Max gain in snow depth at SBSP: 23.3 cm (9.2 inches) *wind affected 2122 MST April 24, 2023 (DOY 114) Peak gust at PTSP at:







Storm precipitation began: 2000-2100 MST May 10, 2023 (DOY 130)

Storm precipitation ended: 2000 MST May 11, 2023 (DOY 131)

Storm duration: 25 hours

Mean precipitation intensity: 0.96 mm/hour

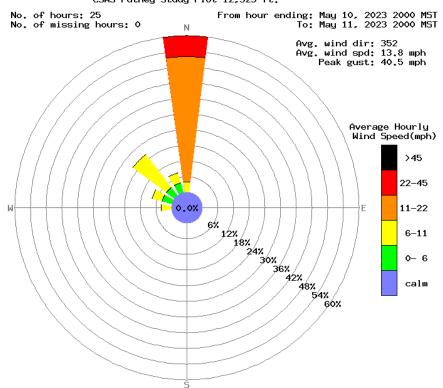
Max precipitation intensity: 2 mm/hour at 1400 on May 11, 2023 (DOY 131)

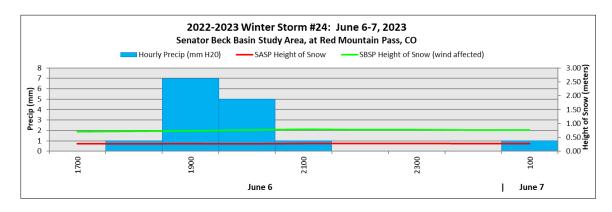
Storm total water content at SASP: 24 mm (0.9 inches)

Max gain in snow depth at SASP: 14.5 cm (5.7 inches)

Max gain in snow depth at SBSP: 4.7 cm (1.9 inches) *wind affected Peak gust at PTSP at: 40.5 MST May 11, 2023 (DOY 131)







Storm precipitation began: 1700-1800 MST June 6, 2023 (DOY 157) **Storm precipitation ended:** 0100 MST June 7, 2023 (DOY 158)

Storm duration: 9 hours

Mean precipitation intensity: 1.67 mm/hour

Max precipitation intensity: 7 mm/hour at 1900 on June 6, 2023 (DOY 157)

Storm total water content at SASP: 15 mm (0.6 inches)

Max gain in snow depth at SASP: 1.2 cm (0.5 inches)

Max gain in snow depth at SBSP: 6.0 cm (2.4 inches) *wind affected

Peak gust at PTSP at: 37.26 MST June 6 (DOY 157)

