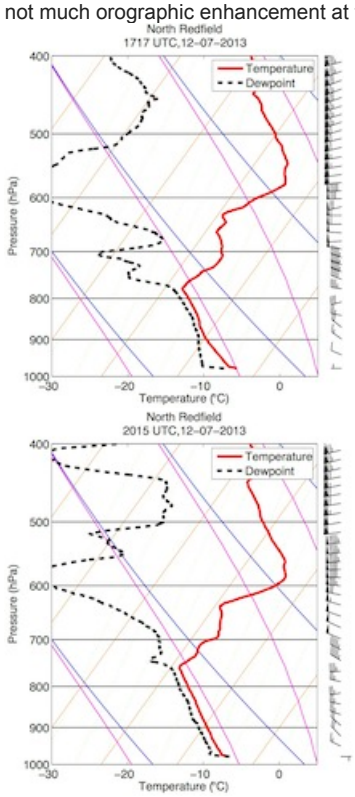
IOP1: Dec 07, 1500 UTC to Dec 08, 0000 UTC

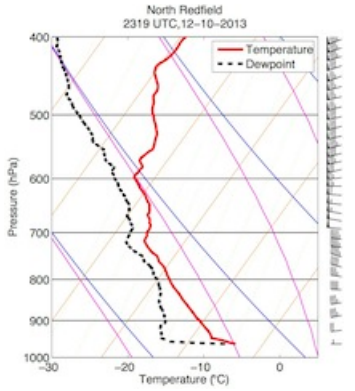
Soundings were performed successfully at 1717 and 2015 UTC.

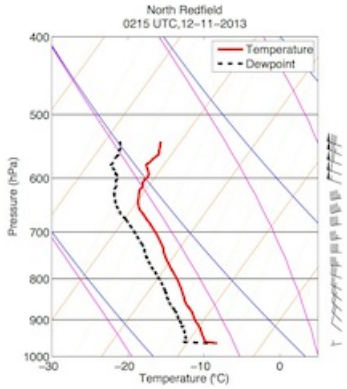
The 2315 UTC sounding failed at launch. We decided not to launch a replacement sounding: the band was to our south, there was not much orographic enhancement at this time, and the Millersville crew provided an additional sounding to the north of the band.

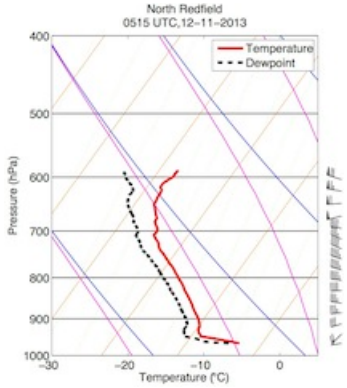


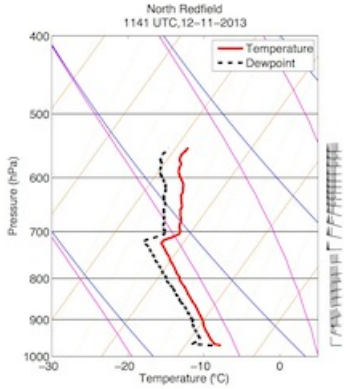
IOP2: 10 - 11 Dec

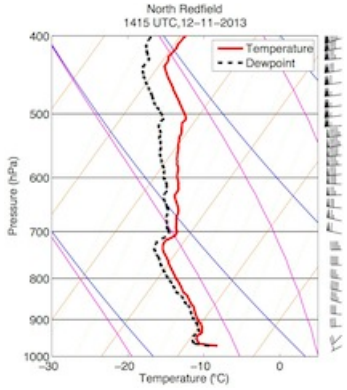
Sounding performed successfully at 2015 UTC 10 Dec, 0515 UTC, and 1415 UTC 11 Dec. Successful but slightly late sounding at 1141 UTC 11 Dec.
Sounding at 0215 UTC 11 Dec was blocked by Jim Cheney's truck between ~500 and 300 mb. We recovered the last bit of the sounding after we discovered the problem. This is important to keep in mind!!! Line of sight matters for the radio.
The rest of the soundings were performed successfully, reaching at least 400 mb.

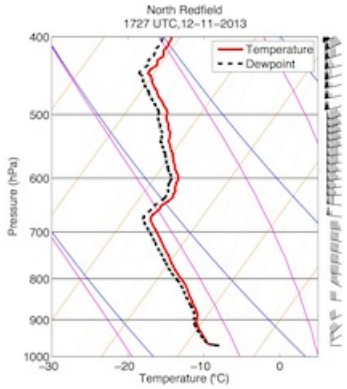


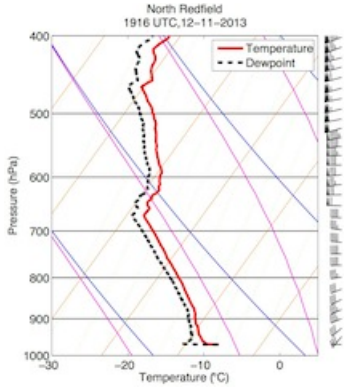

North Redfield
0215 UTC,12-11-2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)
400
500
600
700
800
900
1000
−30
−20
−10
0

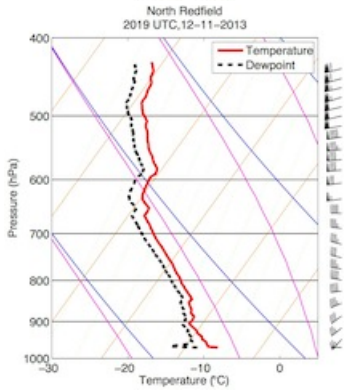

North Redfield
0515 UTC,12-11-2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)
400
500
600
700
800
900
1000
−30
−20
−10
0

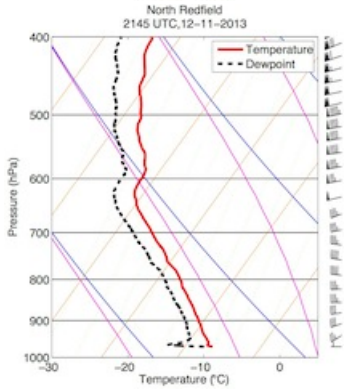

North Redfield
1141 UTC,12-11-2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)
400
500
600
700
800
900
1000
−30
−20
−10
0

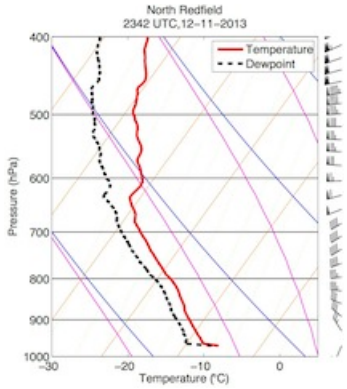

North Redfield
1415 UTC,12-11-2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)
400
500
600
700
800
900
1000
−30
−20
−10
0


North Redfield
1727 UTC,12−11−2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)


North Redfield
1916 UTC,12−11−2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)

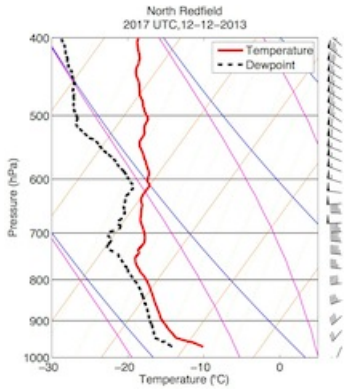

North Redfield
2019 UTC,12−11−2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)

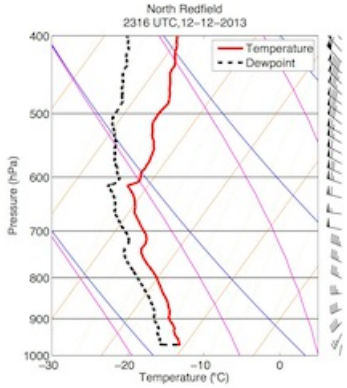

North Redfield
2145 UTC,12−11−2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)

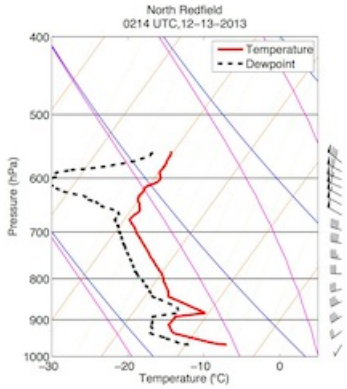


IOP3: 12 - 13 Dec

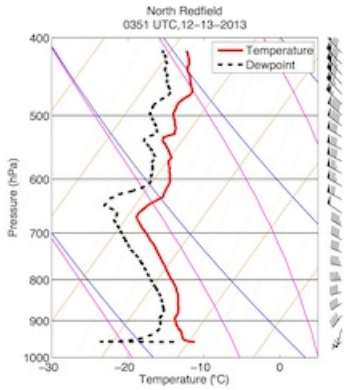
One of these soundings was taken just before the band moved over us, one right in the middle of the band, and one just after it moved to our south. I did not note when the first two were so we'll have to go back to the radar and note which one was which. The last sounding taken was the one after the band moved to our south.

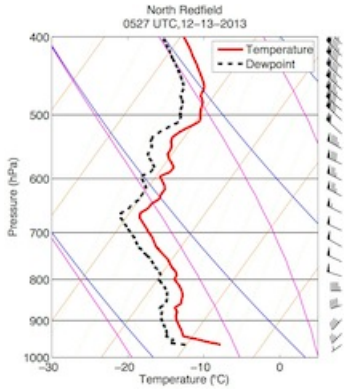


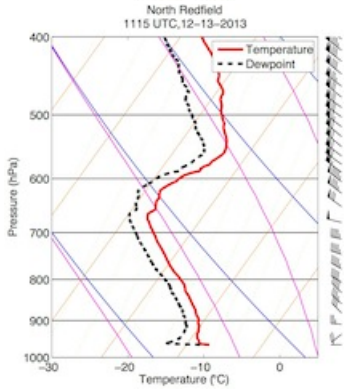


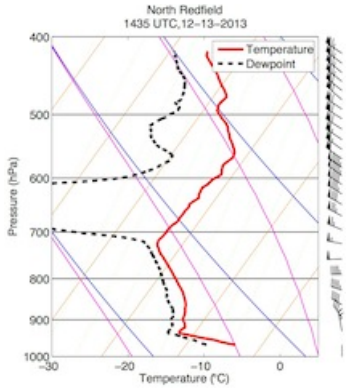


In the 0214 UTC sounding the signal was lost for about the first 900 m of ascent, but was recovered afterwards.



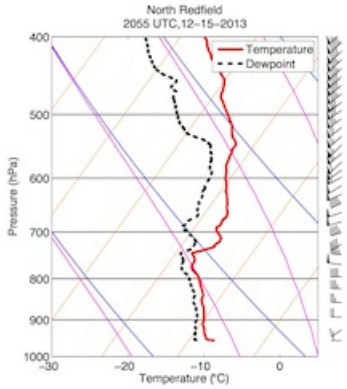


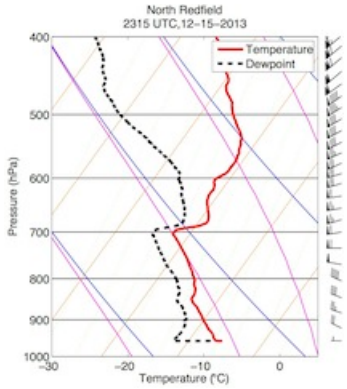


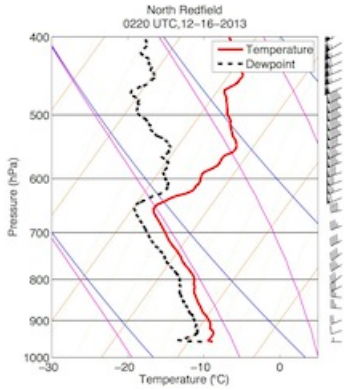


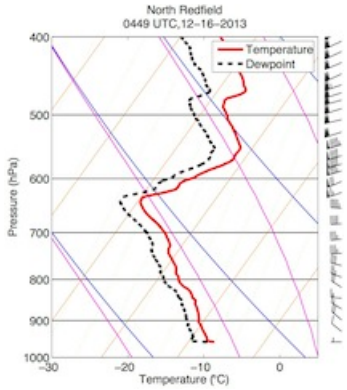
The 1435 UTC sounding was taken just after the band moved to our south. The photo below was taken ~15 min before we launched the sounding.

IOP4: 15-16 Dec
Four soundings were taken that all made it above 200 mb.

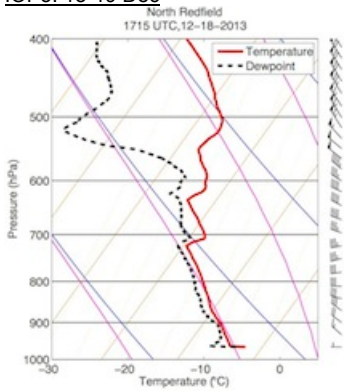

North Redfield
2055 UTC,12-15-2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)

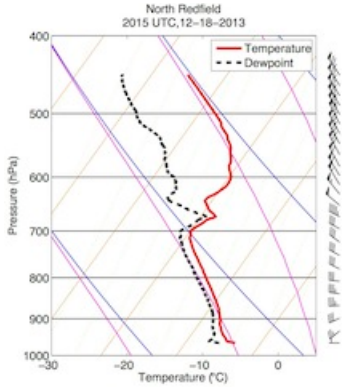

North Redfield
2315 UTC,12-15-2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)

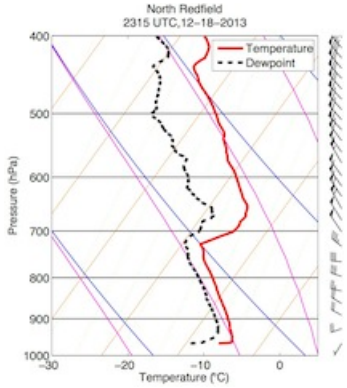

North Redfield
0220 UTC,12-16-2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)


North Redfield
0449 UTC,12-16-2013
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)

IOP5: 18-19 Dec

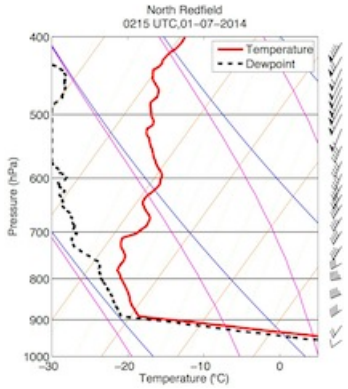


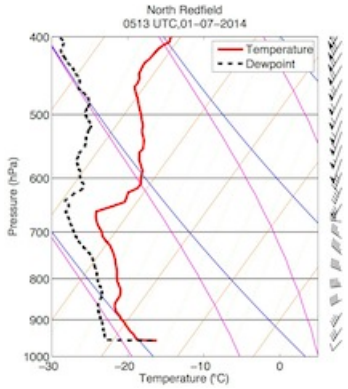


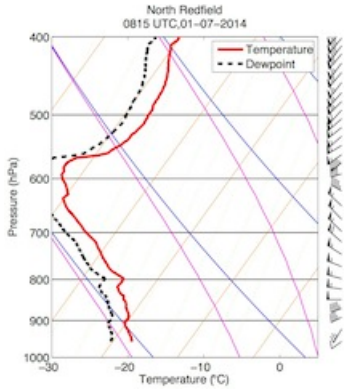


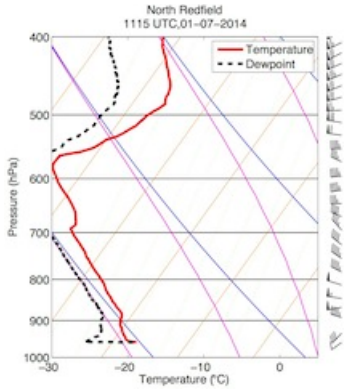
IOP6/7

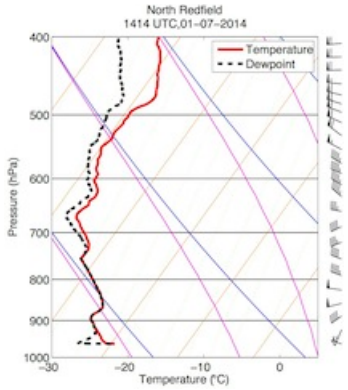
0215 UTC 7 Jan sounding: ground temperature value from kestrel was entered wrong. It should be -12.4 C, not +12.5.

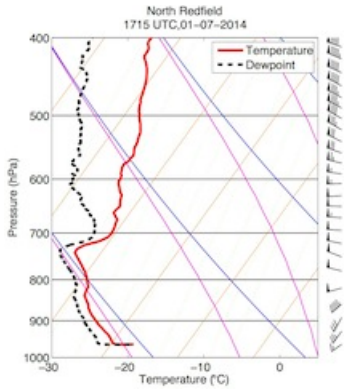

North Redfield
0215 UTC,01-07-2014
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)

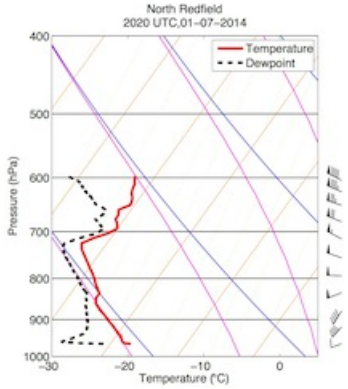

North Redfield
0513 UTC,01-07-2014
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)


North Redfield
0815 UTC,01-07-2014
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)


North Redfield
1115 UTC,01-07-2014
Temperature
Dewpoint
Pressure (hPa)
Temperature (°C)

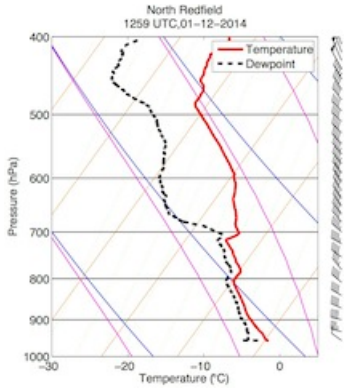






IOP10: Dec 12, 1200 -1800 UTC

One sounding was launched at 1259 UTC and reached 400 mb.



IOP14: Dec 19 - 20 UTC