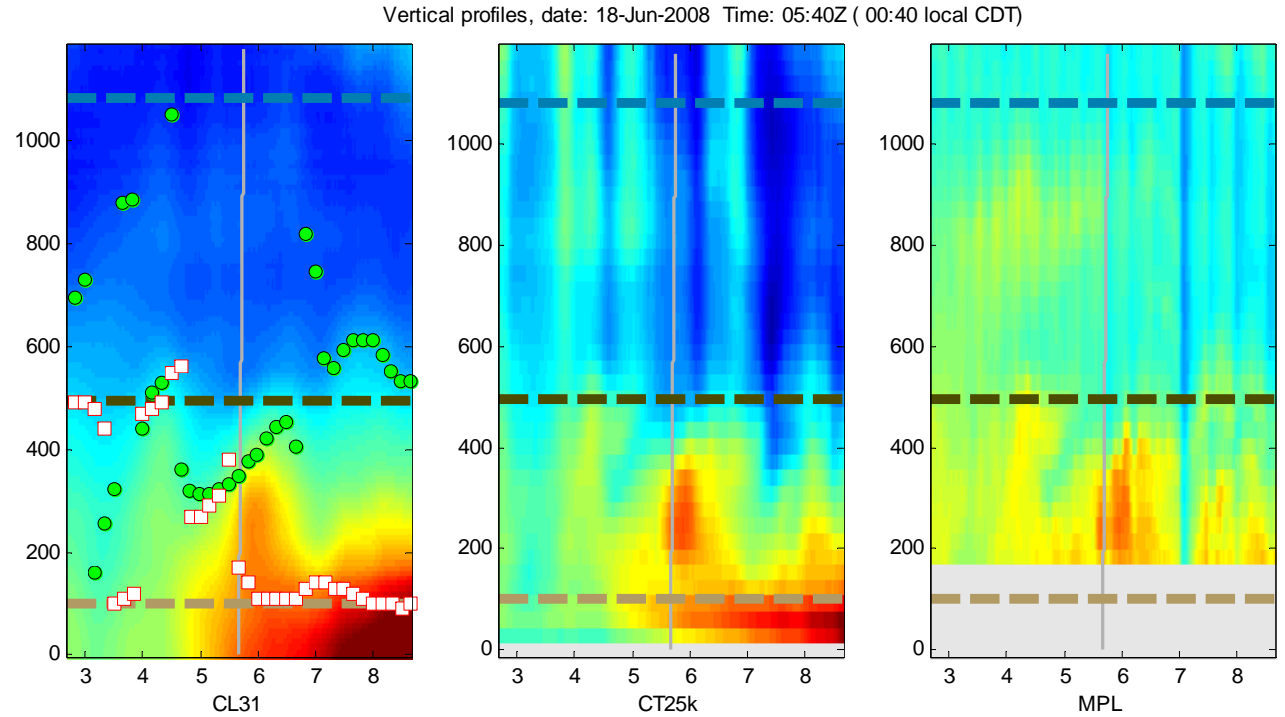
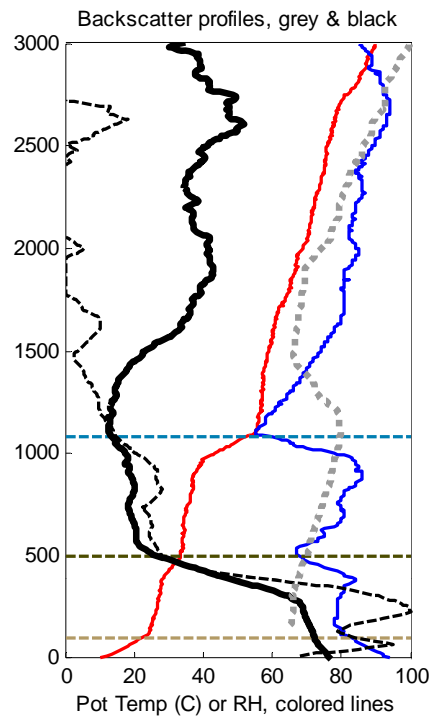


Appendix C

Overall comparison between sondes
and CL31 algorithms



Left hand plot:

Blue line = RH from sonde

Red line = potential temperature - NOT TO SCALE – has been normalized to increase dynamic range

Thick solid black line = backscatter from CL31

Thin dashed black line = backscatter from CT25K

Grey dotted line = normalized relative backscatter from micropulse LIDAR

Horizontal lines = heights of features in potential temperature or RH from sonde

Curtain plots:

Color scales have been adjusted to maximize contrast of concentration gradients and are not comparable from day-to-day or instrument-to-instrument

Green dots are MLH calculated by Iowa algorithm

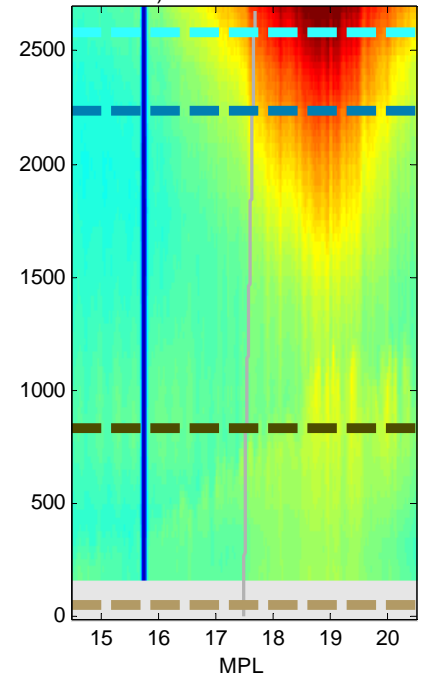
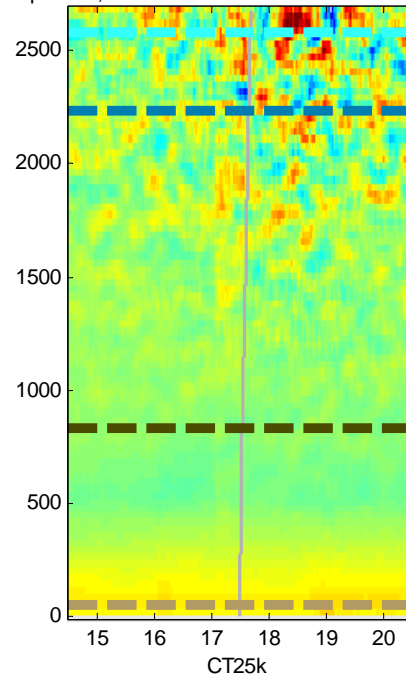
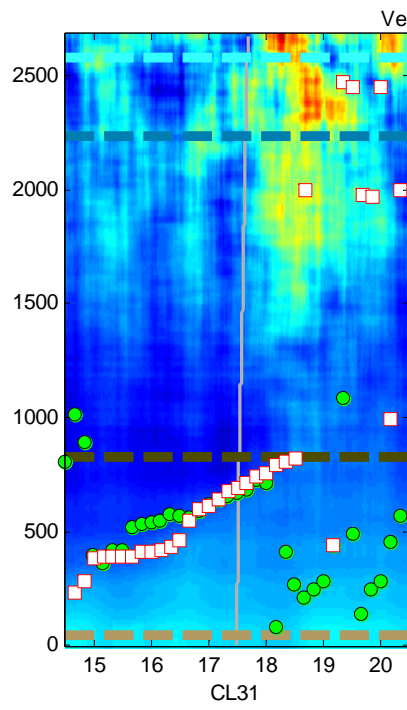
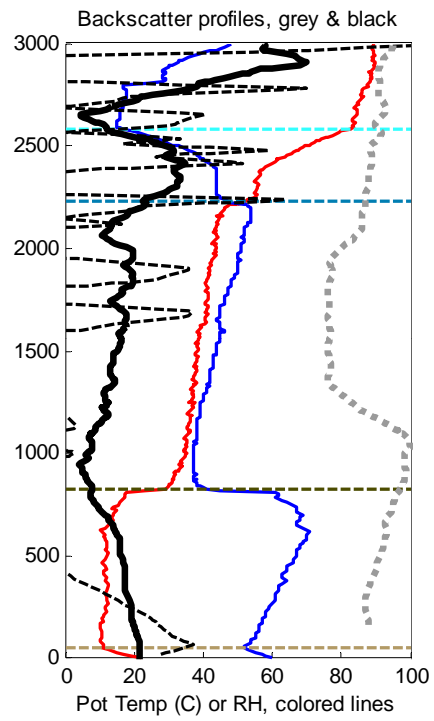
White/red squares are MLH calculated by Vaisala algorithm

Blue/red circles are cloud layer height by Vaisala algorithm

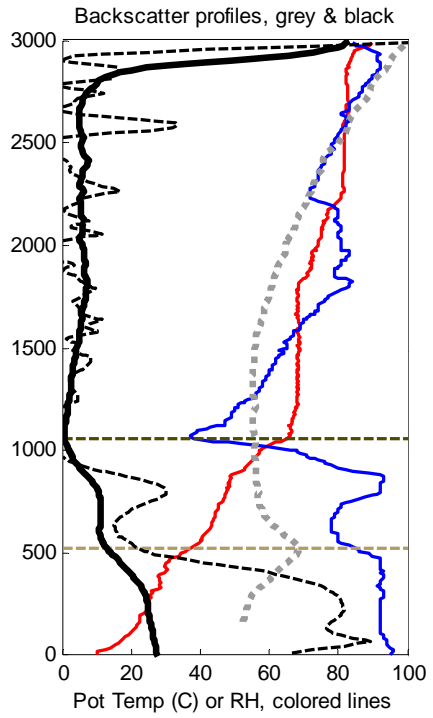
Horizontal lines show the heights of the features in the sonde plot

Vertical grey line is the height vs. time trace for the sonde

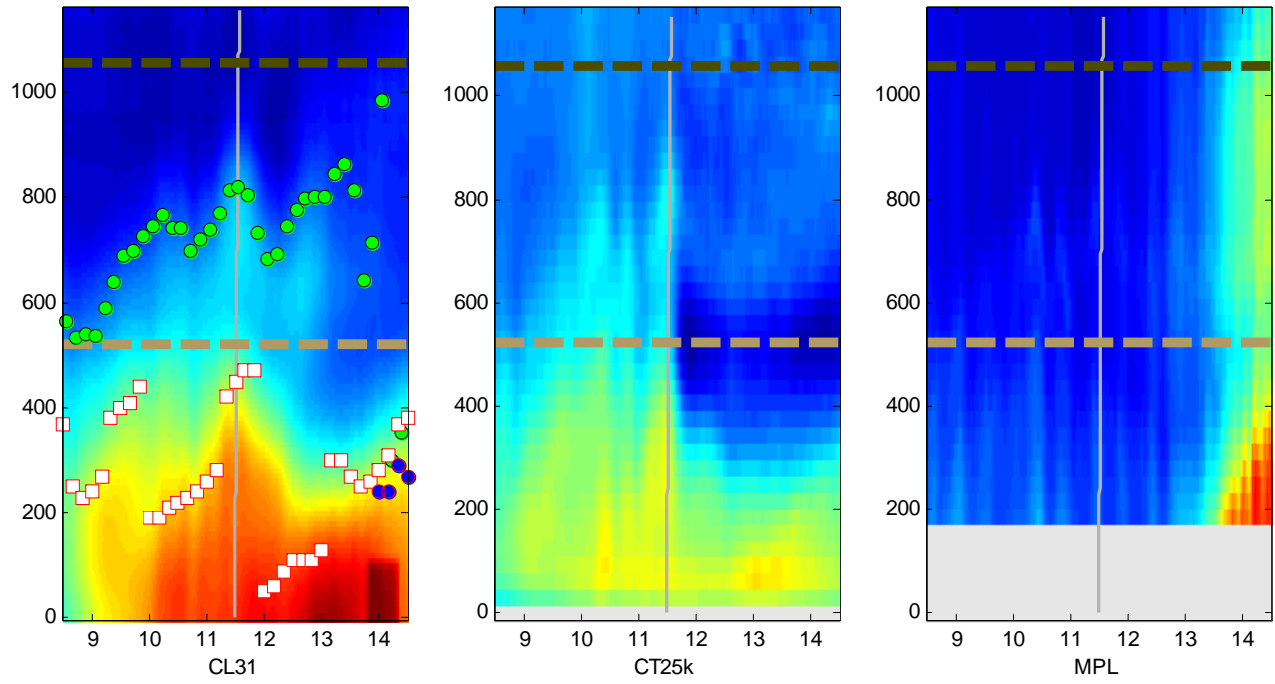
NOTE: height scale changes between the lefthand plot and the curtain plots

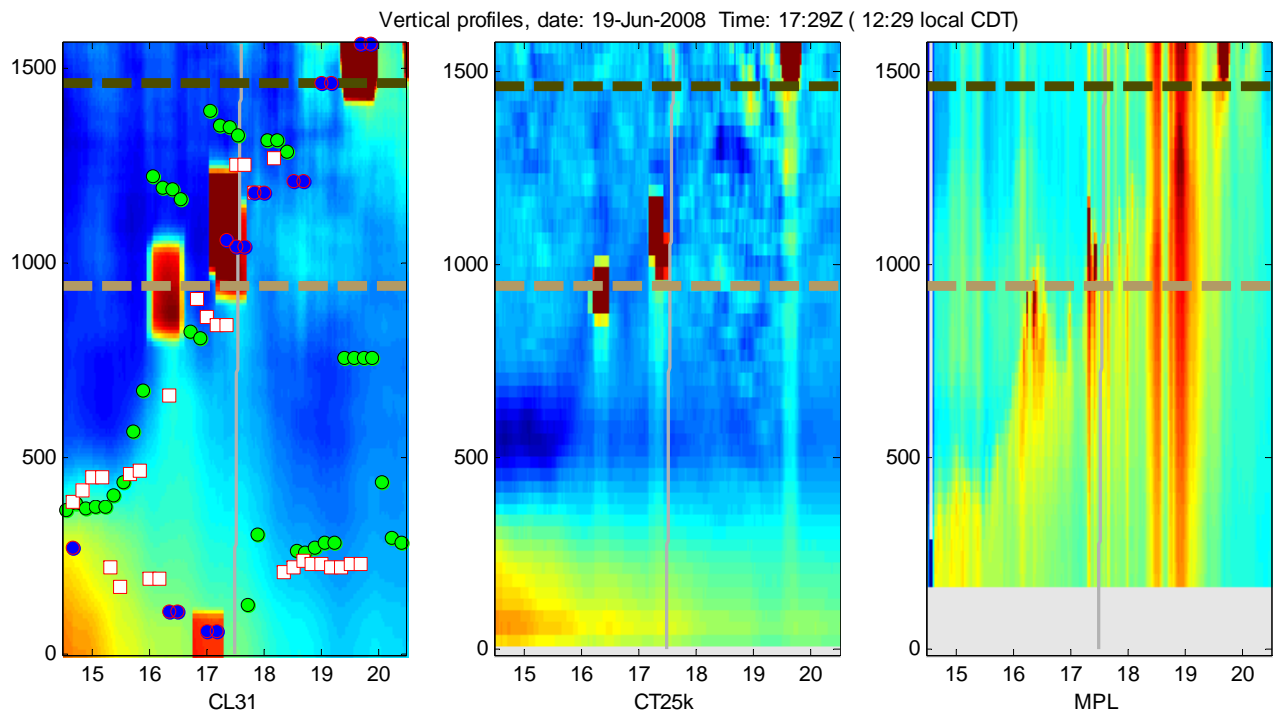
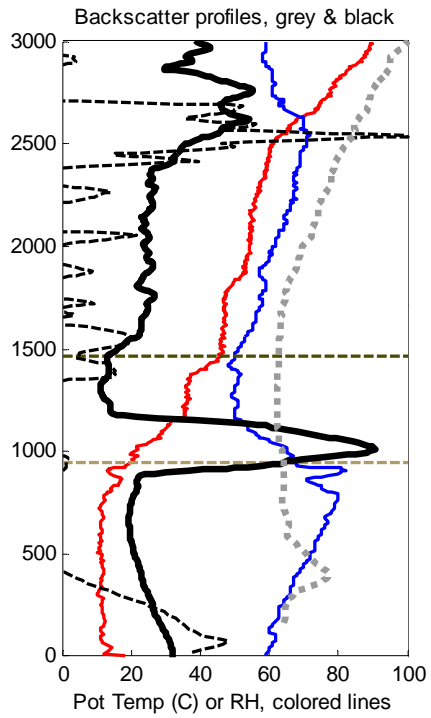


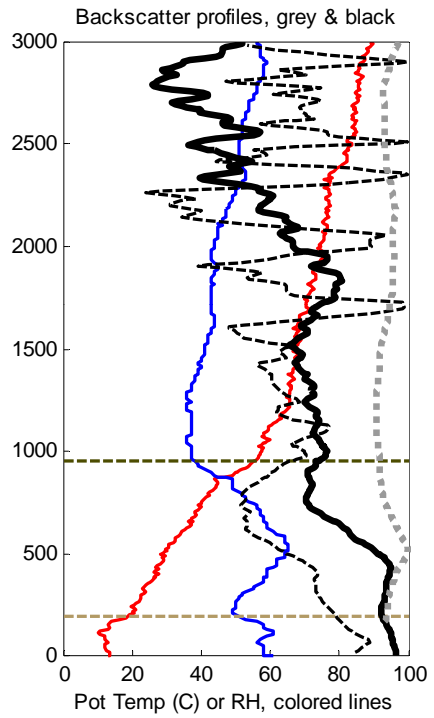
Aspect ratio 131



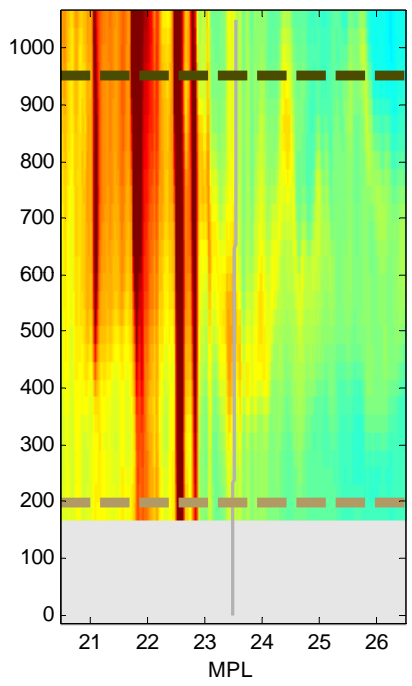
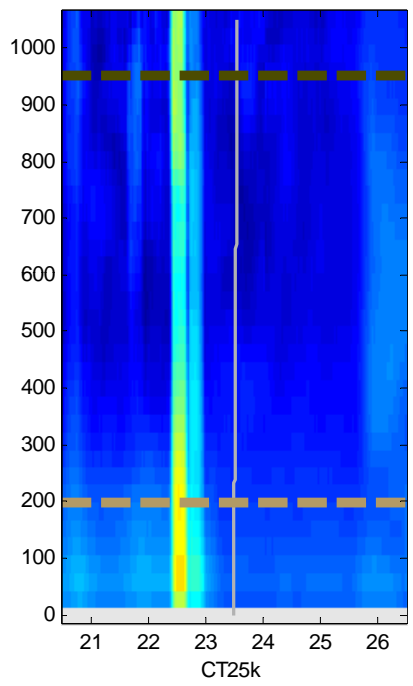
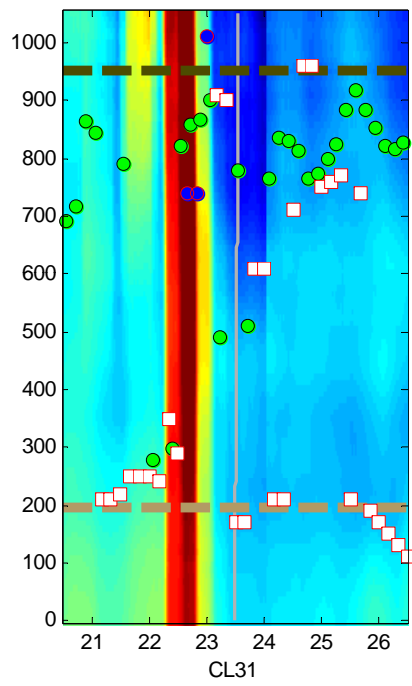
Vertical profiles, date: 19-Jun-2008 Time: 11:29Z (06:29 local CDT)

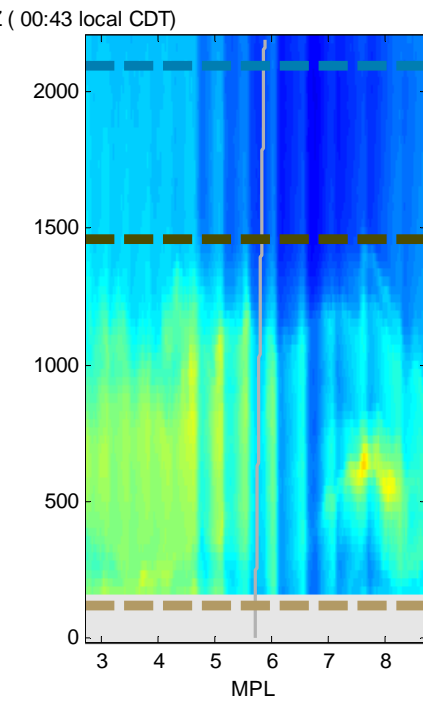
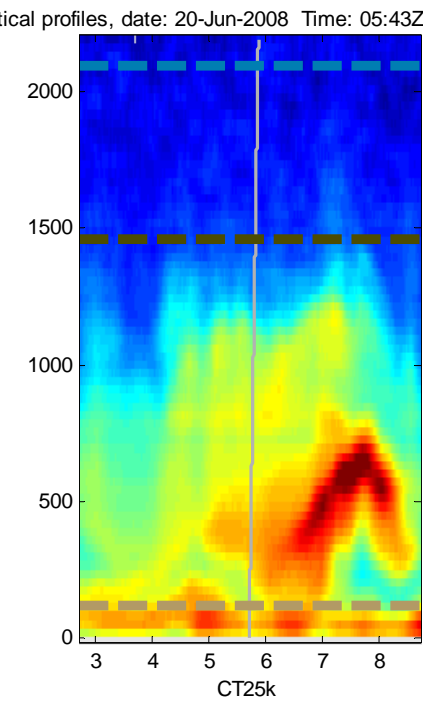
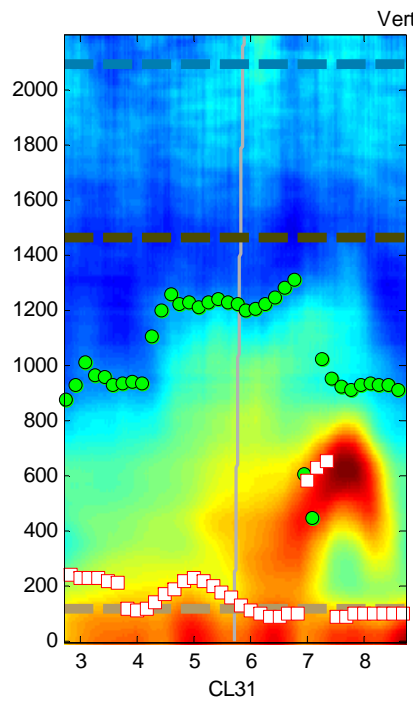
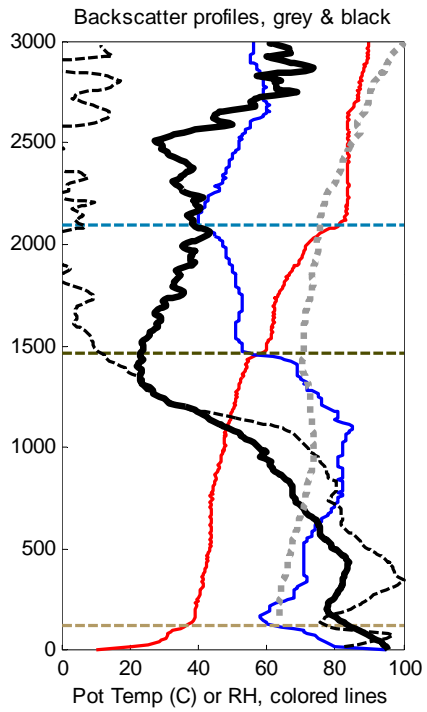


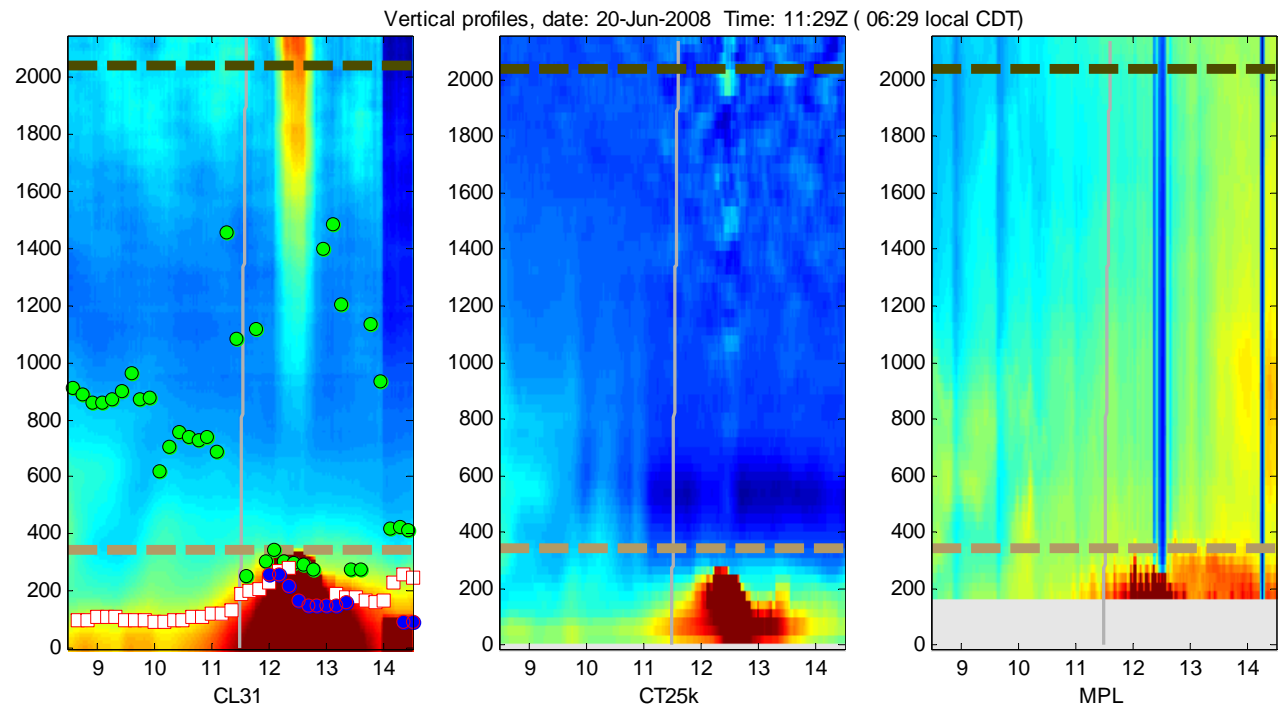
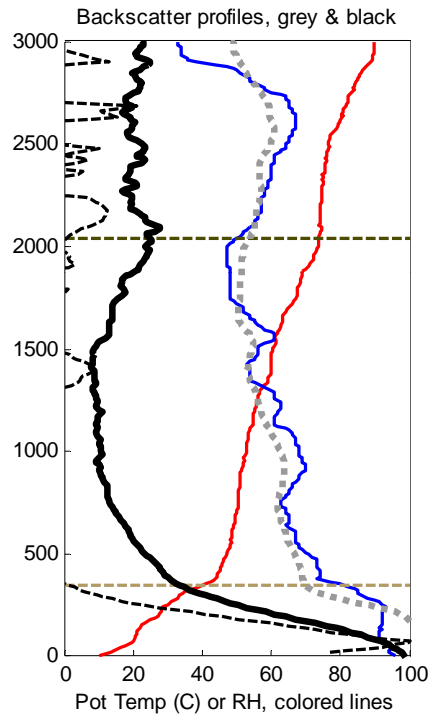


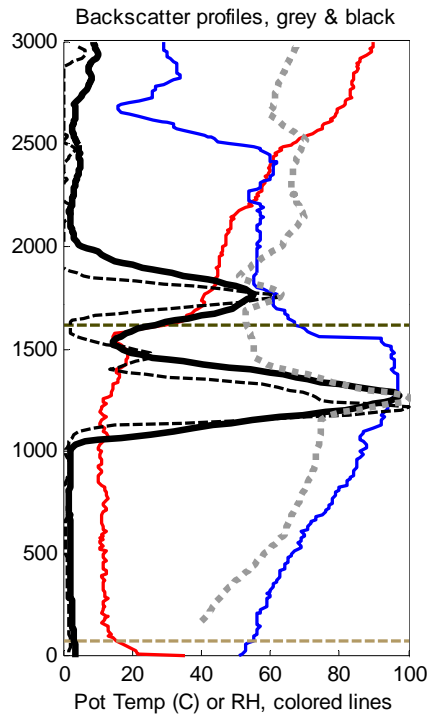


Vertical profiles, date: 19-Jun-2008 Time: 23:29Z (18:29 local CDT)

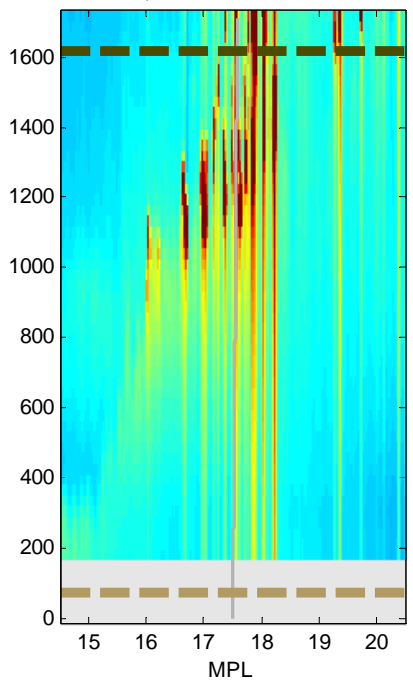
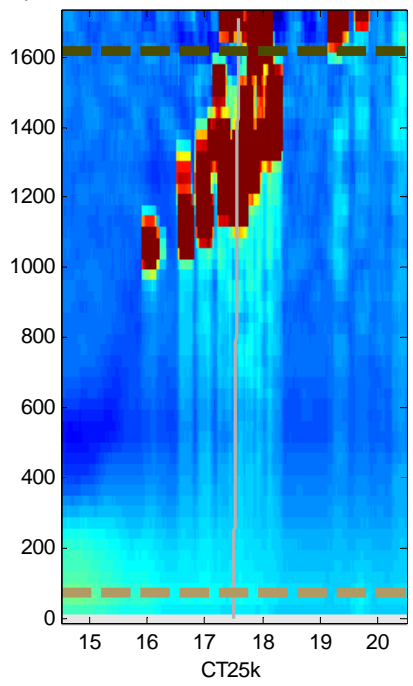
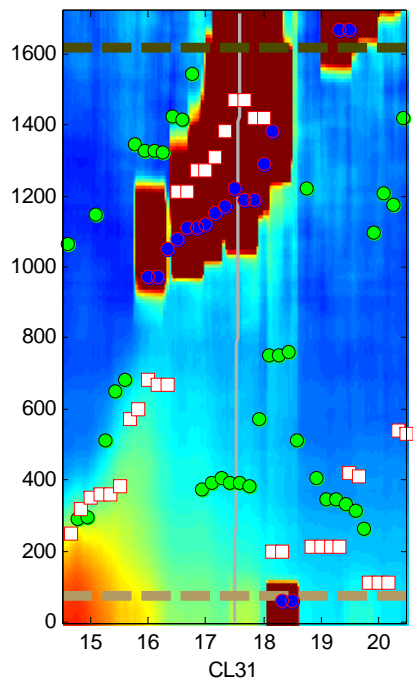


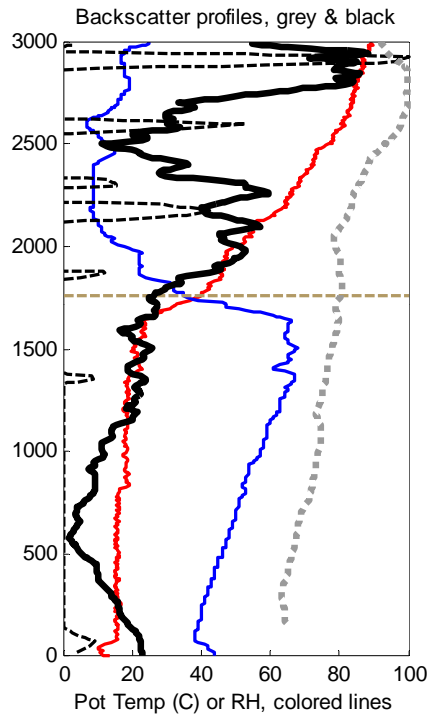




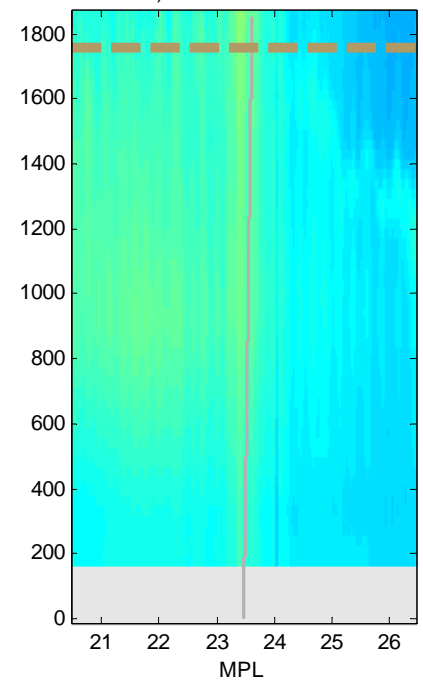
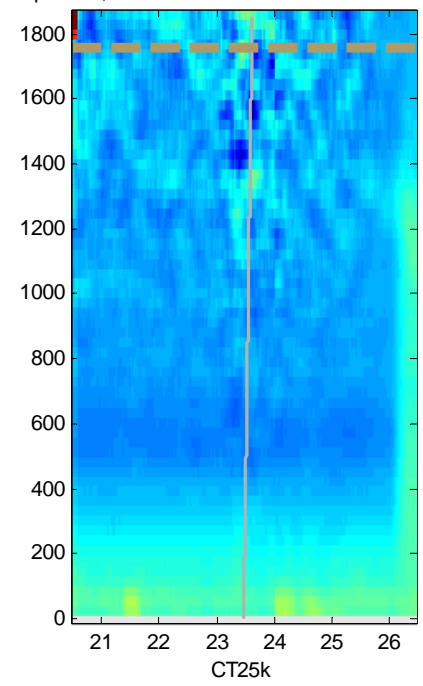
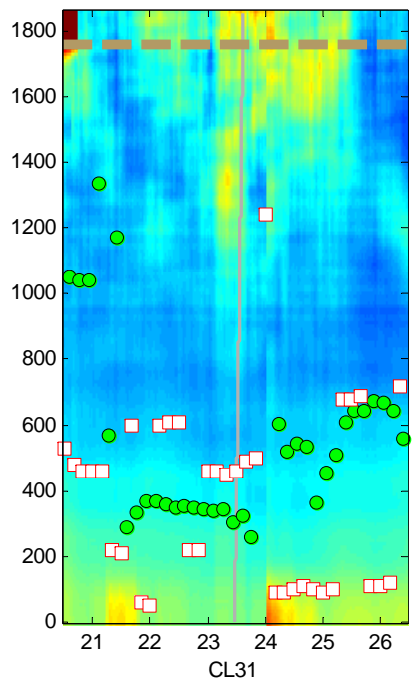


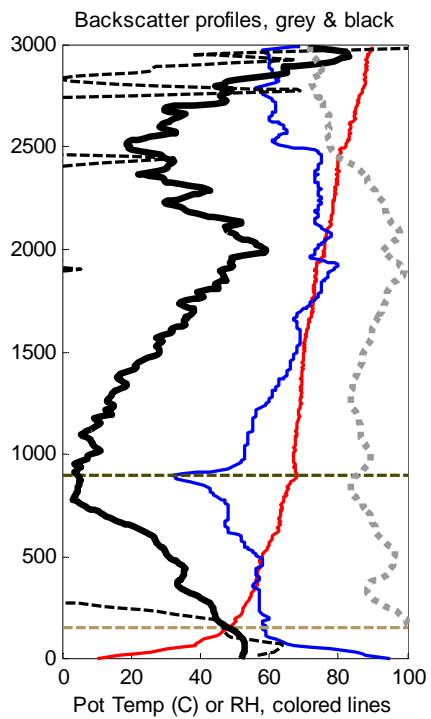
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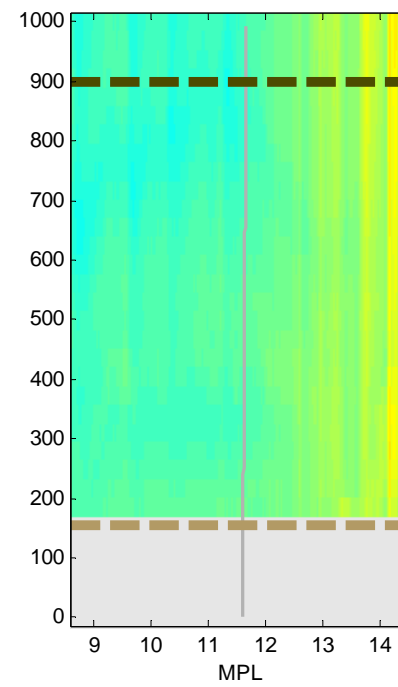
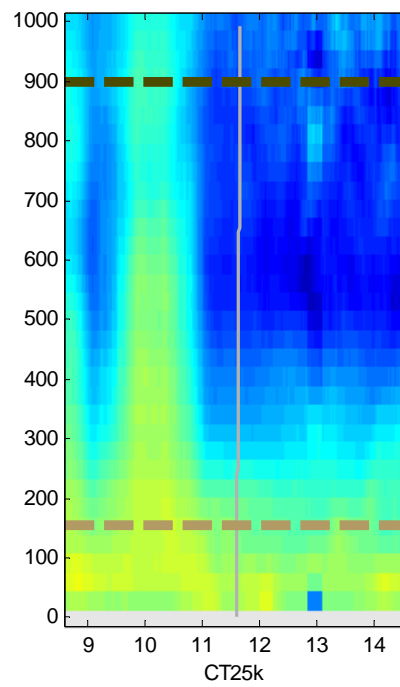
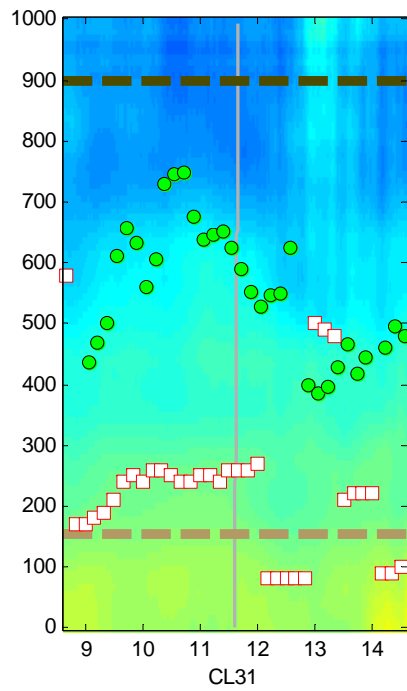


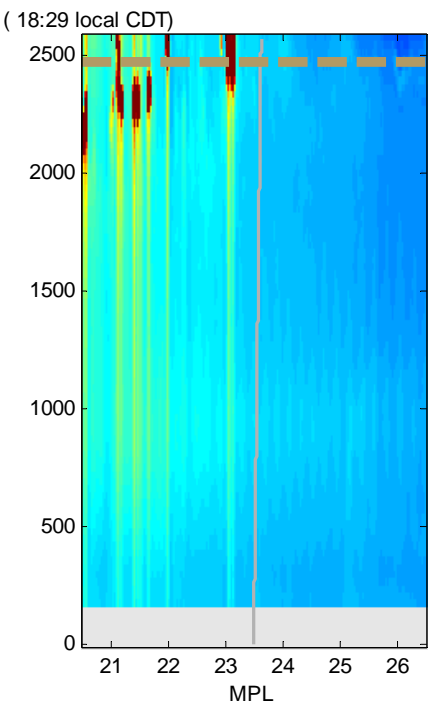
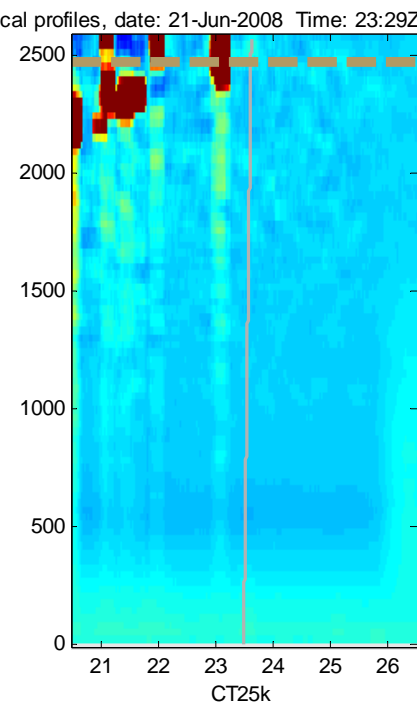
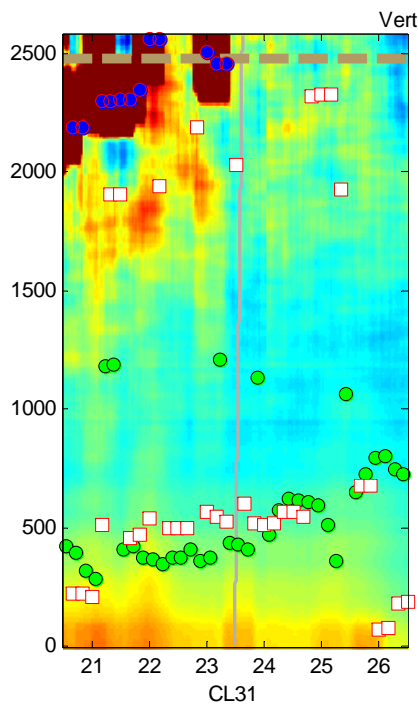
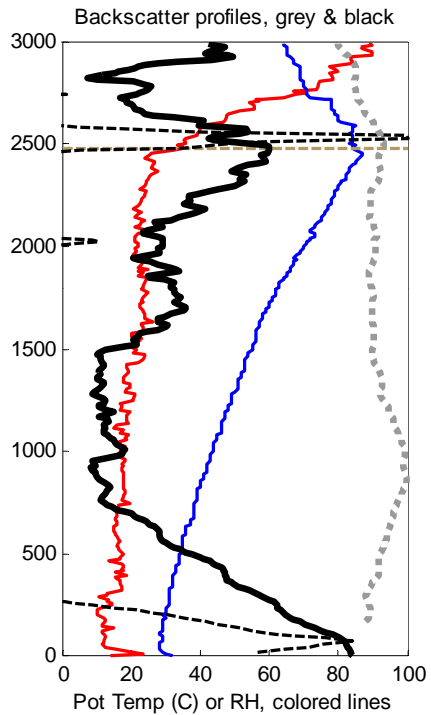
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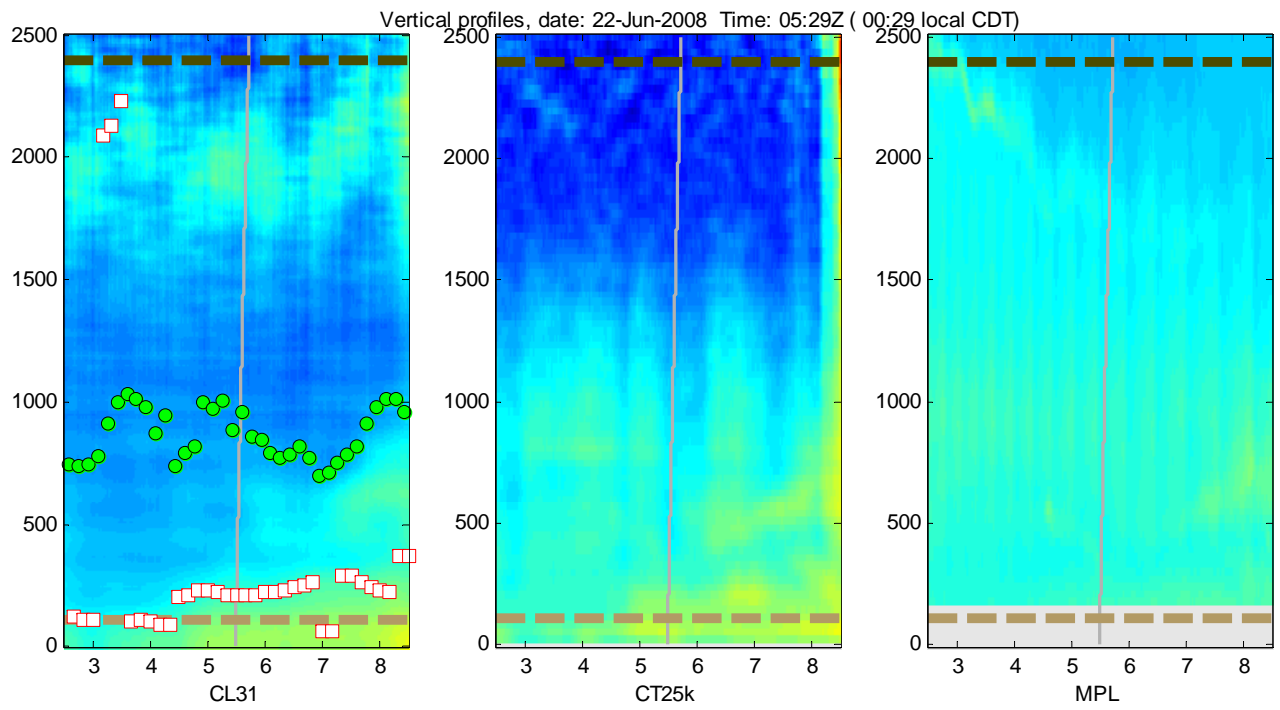
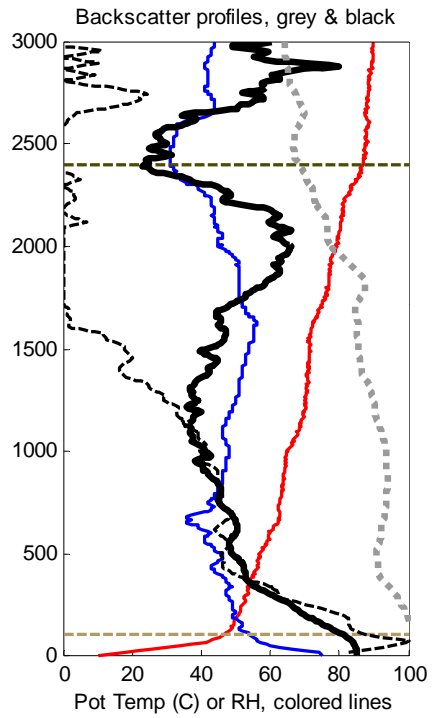




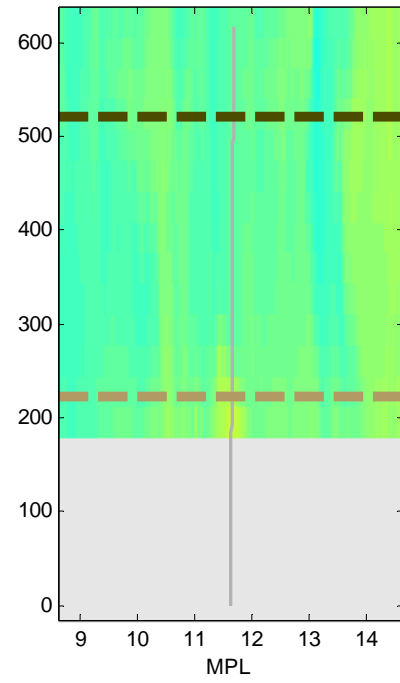
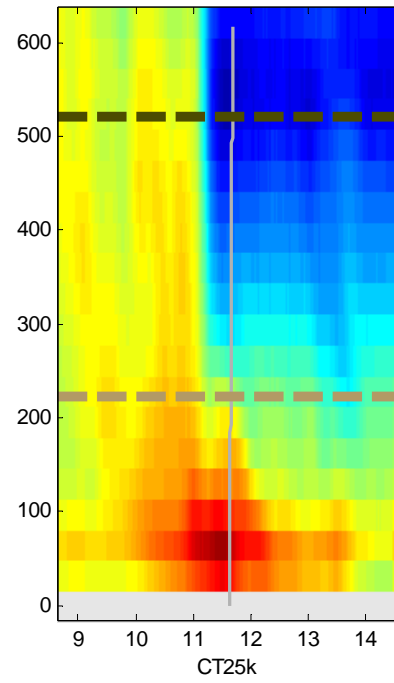
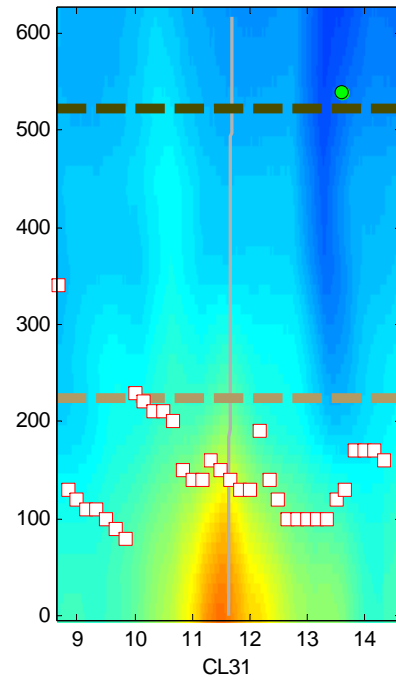
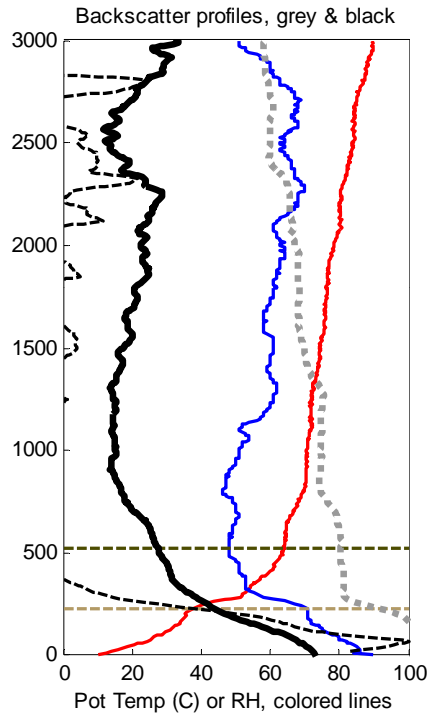
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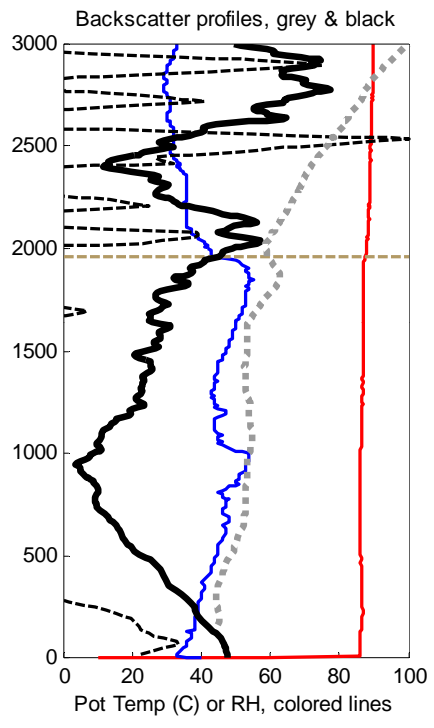




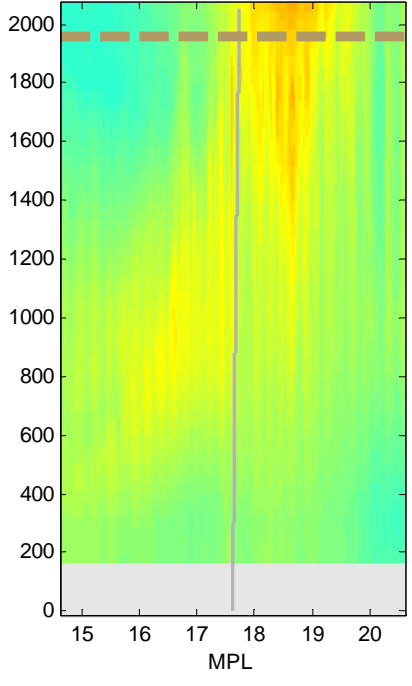
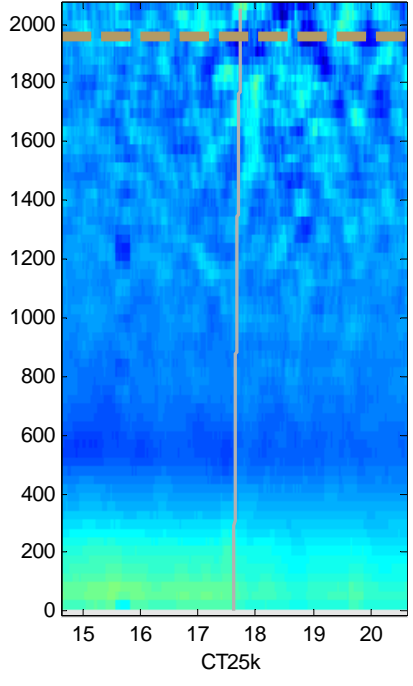
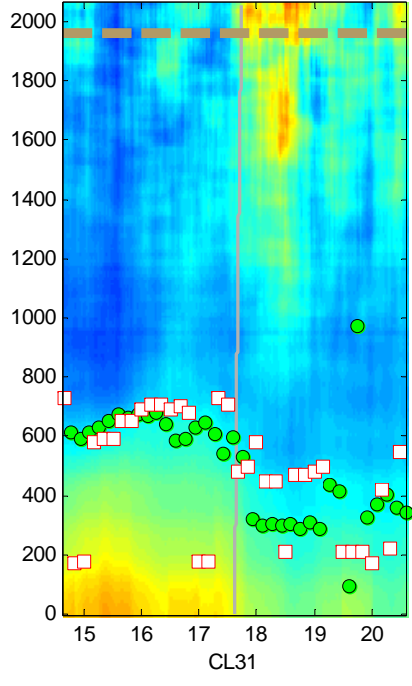


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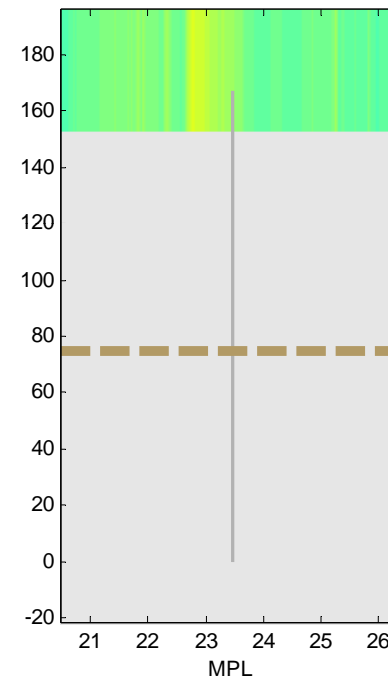
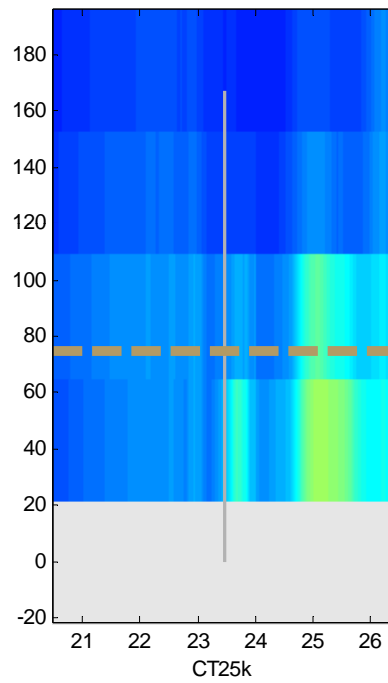
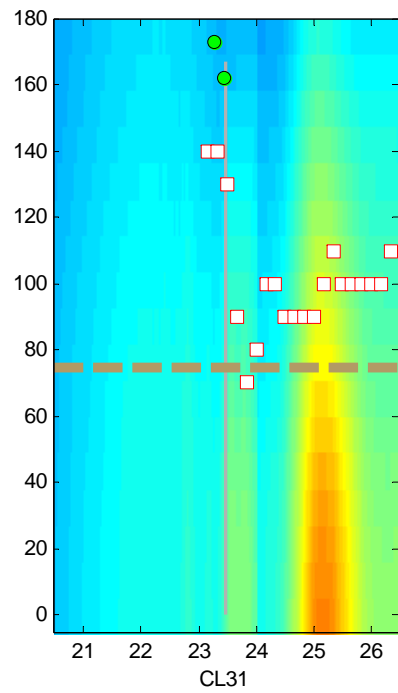
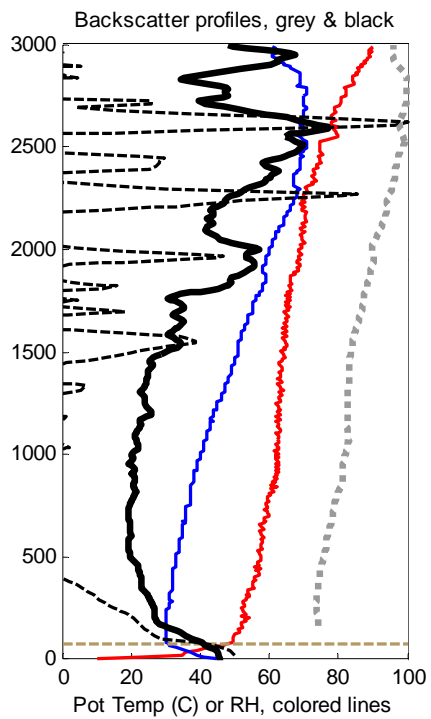


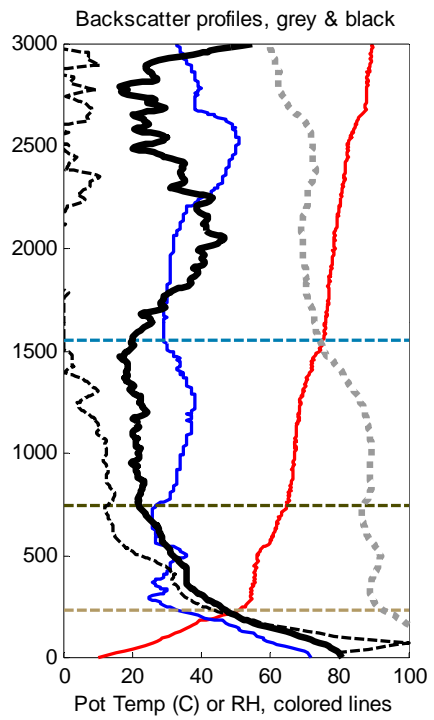


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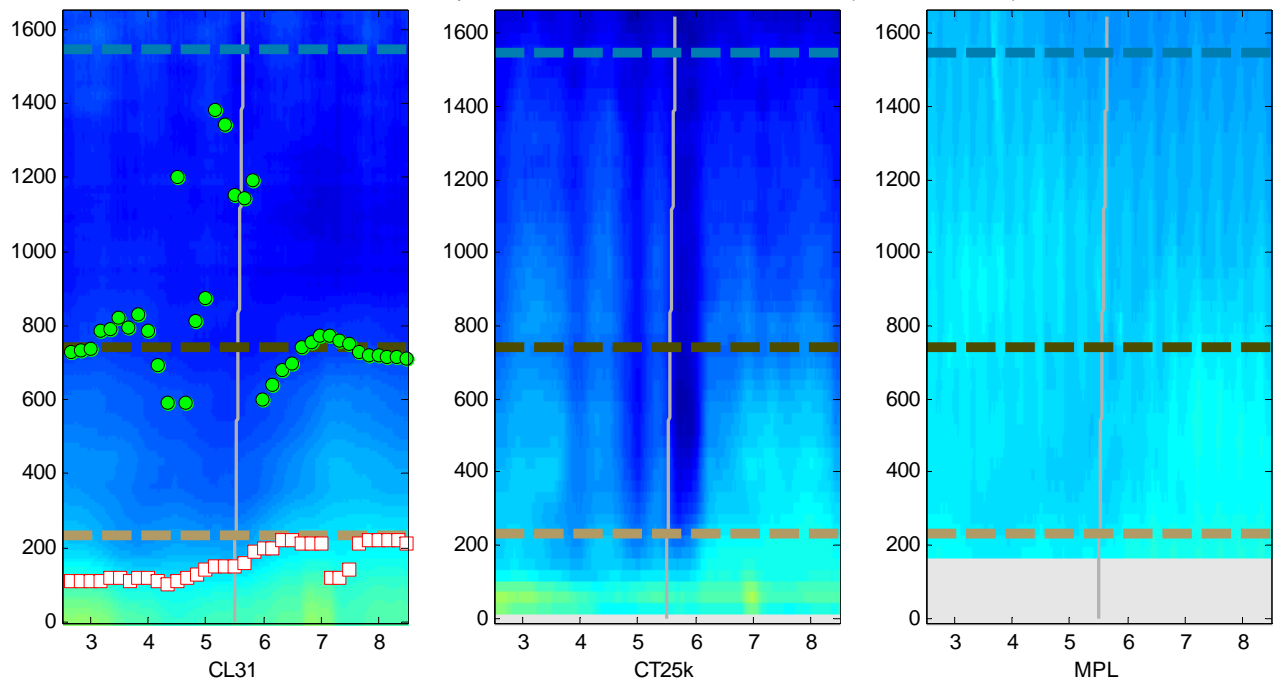


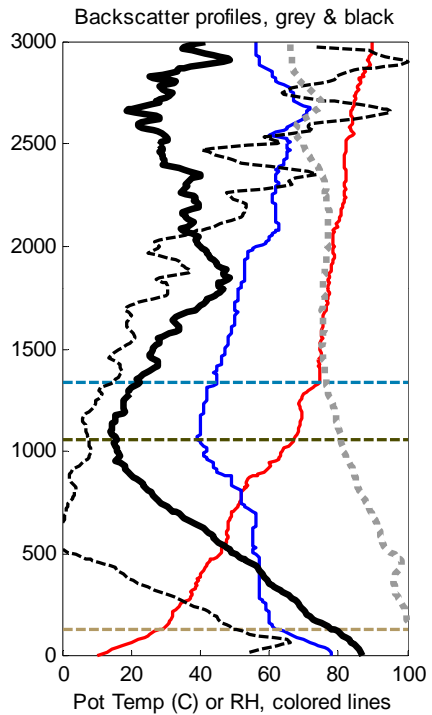
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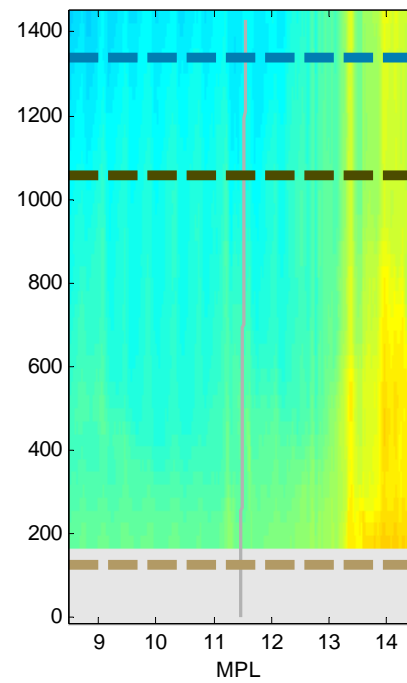
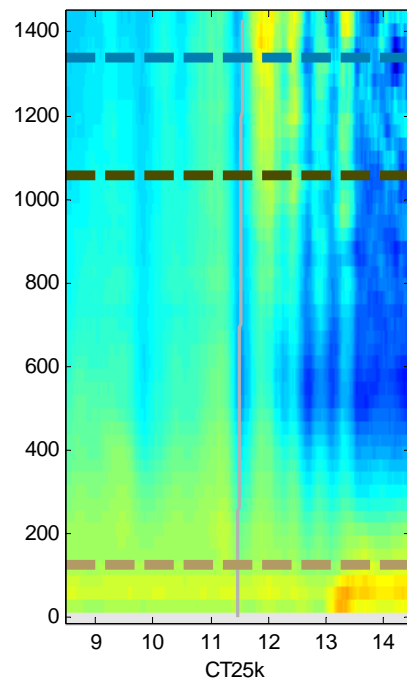
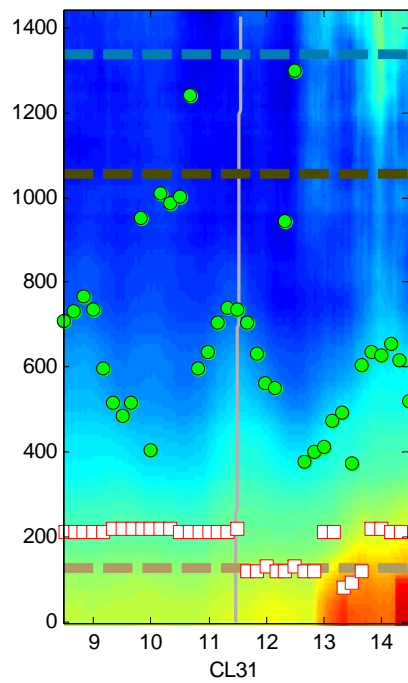


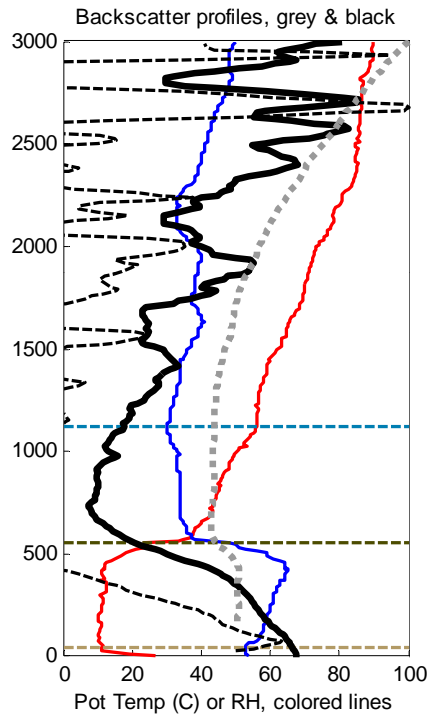
Vertical profiles, date: 23-Jun-2008 Time: 05:30Z (00:30 local CDT)



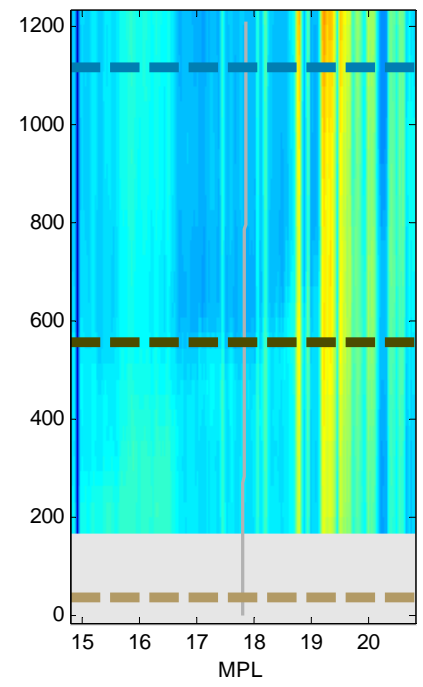
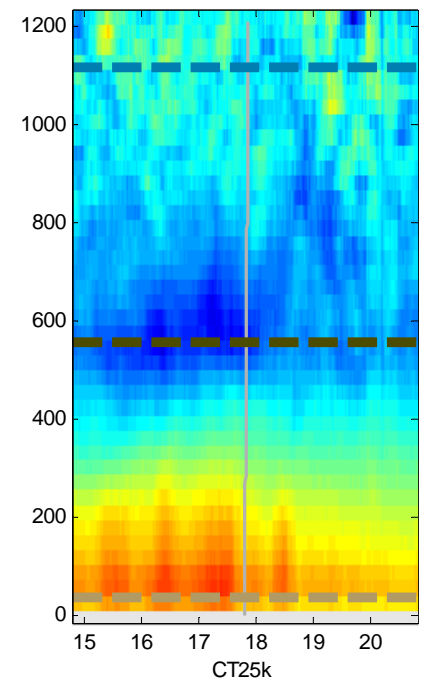
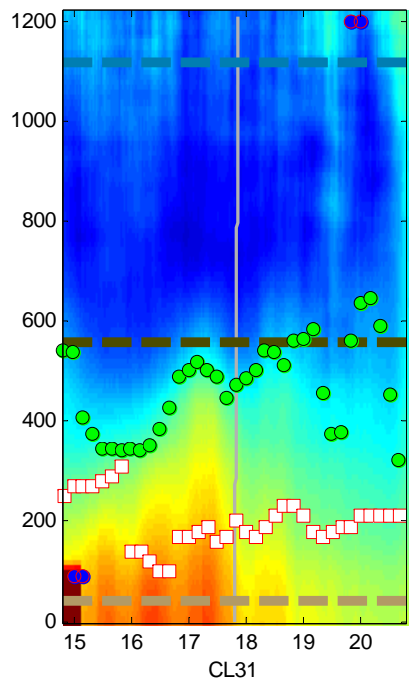


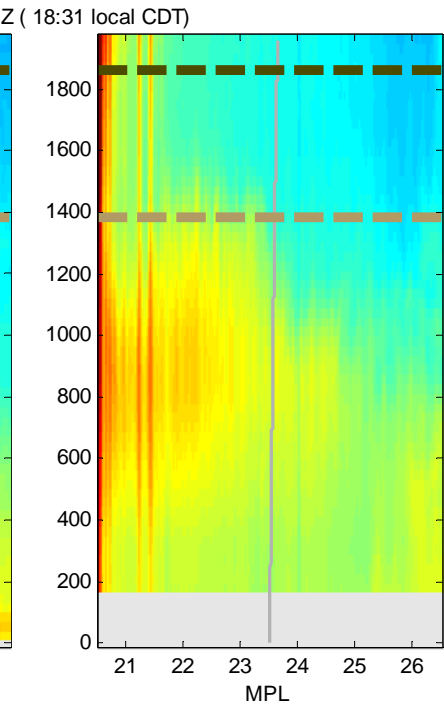
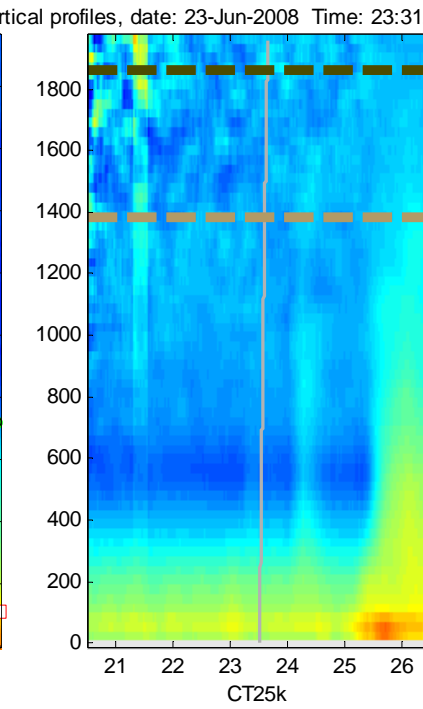
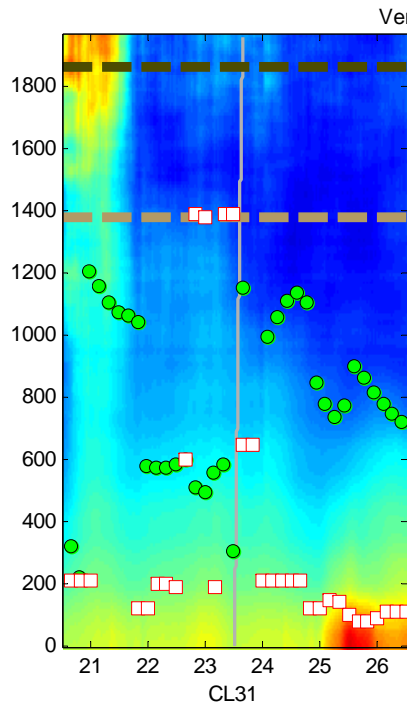
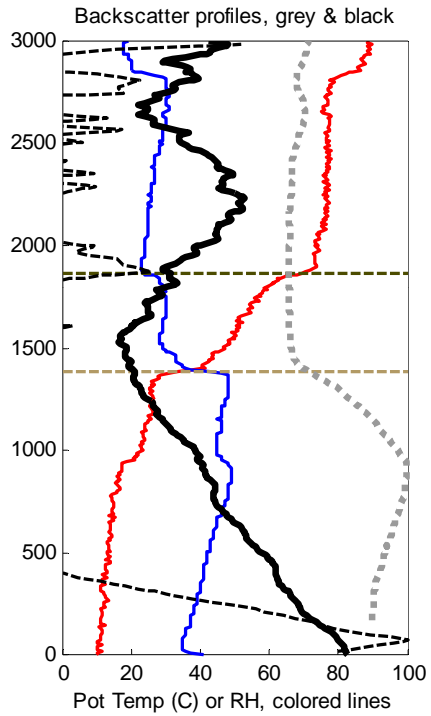
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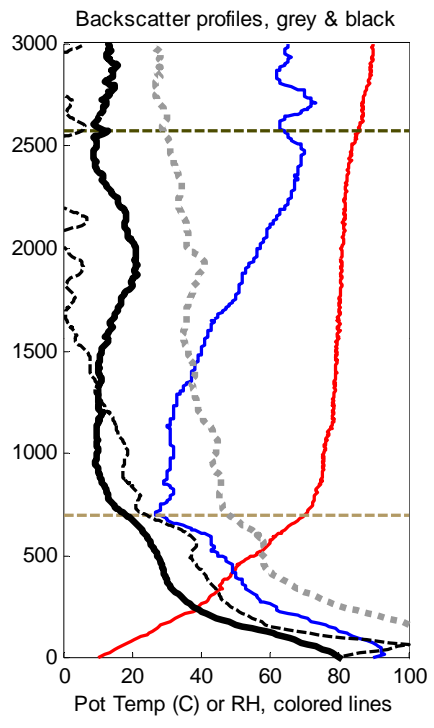




Vertical profiles, date: 23-Jun-2008 Time: 17:48Z (12:48 local CDT)







Vertical profiles, date: 24-Jun-2008 Time: 05:34Z (00:34 local CDT)

