

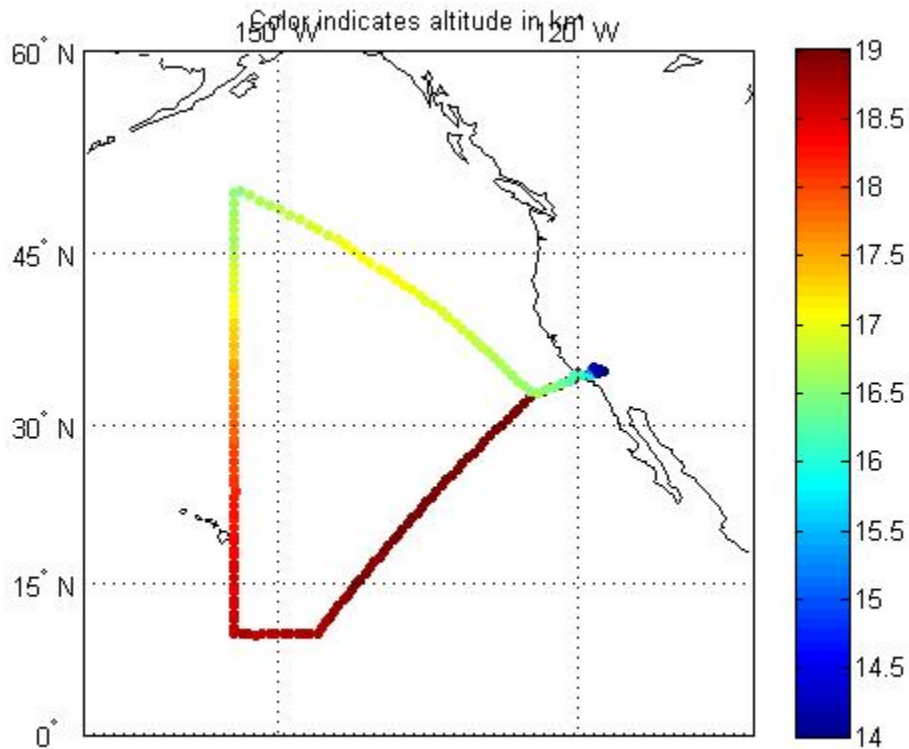
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## Table of Contents

|   |    |
|---|----|
| .....                                   | 1  |
| Flight Path with Altitude .....         | 1  |
| Flight Path with Time .....             | 2  |
| MERRA Comparisons .....                 | 2  |
| Precipitable Water Vapor .....          | 2  |
| Temperature with MERRA .....            | 4  |
| Absolute Humidity with MERRA .....      | 6  |
| Relative Humidity with MERRA .....      | 9  |
| Dropsonde comparisons .....             | 11 |
| Dropsonde locations .....               | 11 |
| Temperature with Dropsondes .....       | 13 |
| Absolute Humidity with Dropsondes ..... | 15 |
| Relative Humidity with Dropsondes ..... | 18 |
| All Dropsonde Comparisons .....         | 20 |
| Retrieval Quality Flag Statistics ..... | 86 |
| Flight Imagery .....                    | 87 |

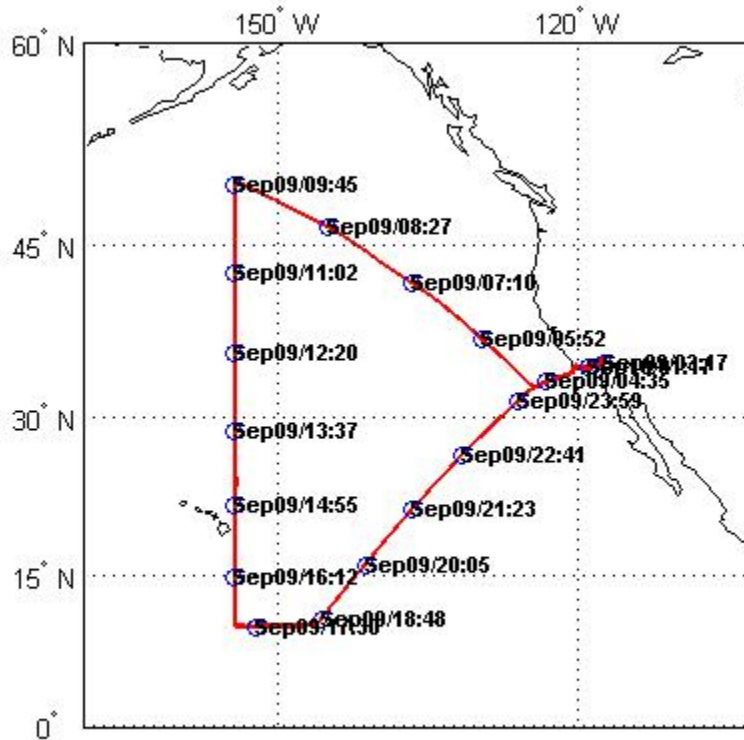
*Reading: HAMSR\_L2\_20110908T185915\_20110909T185423\_v01.nc*

## Flight Path with Altitude



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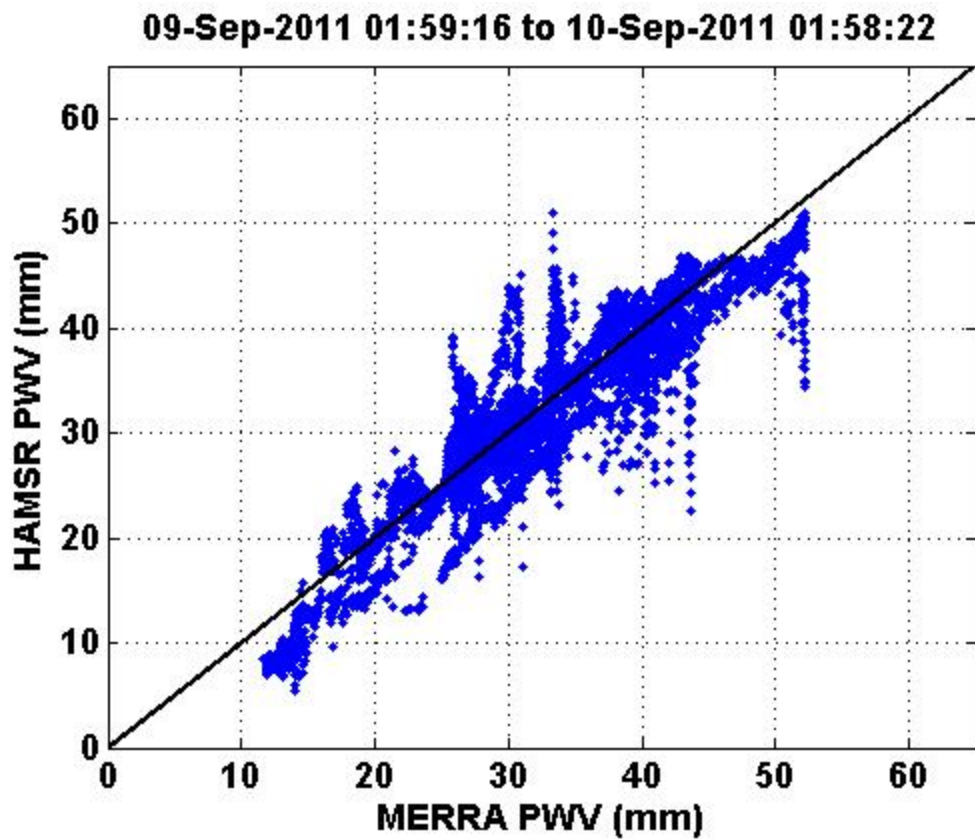
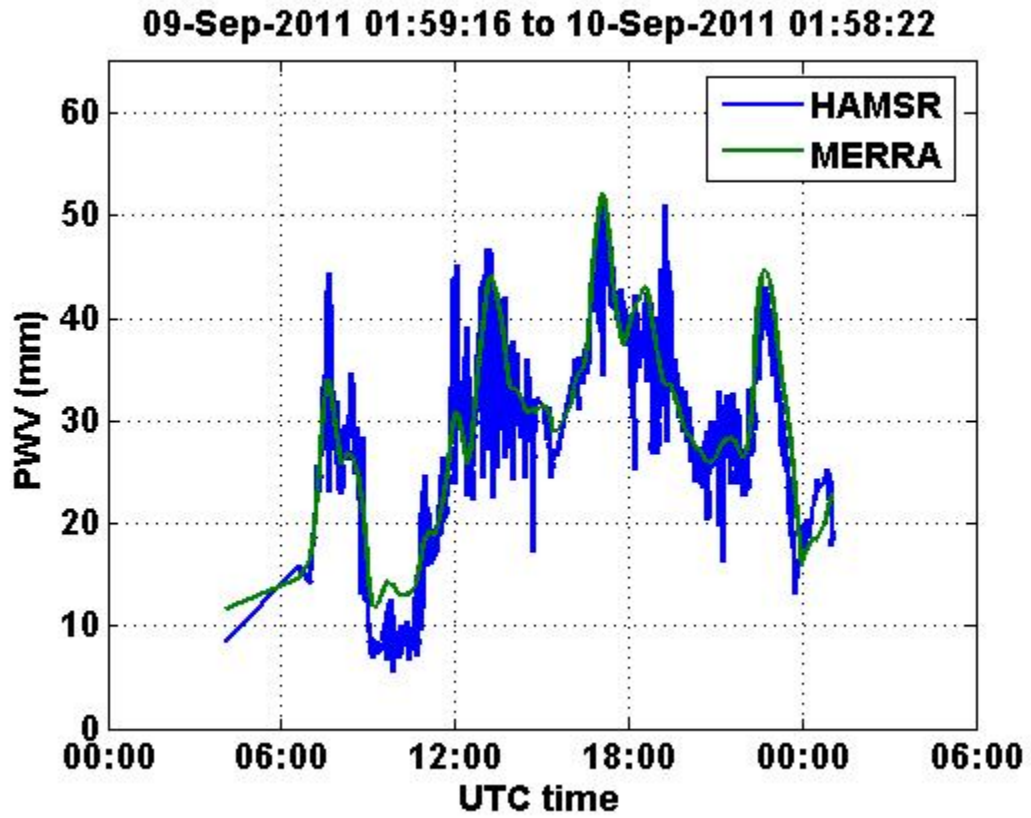
# Flight Path with Time



## MERRA Comparisons

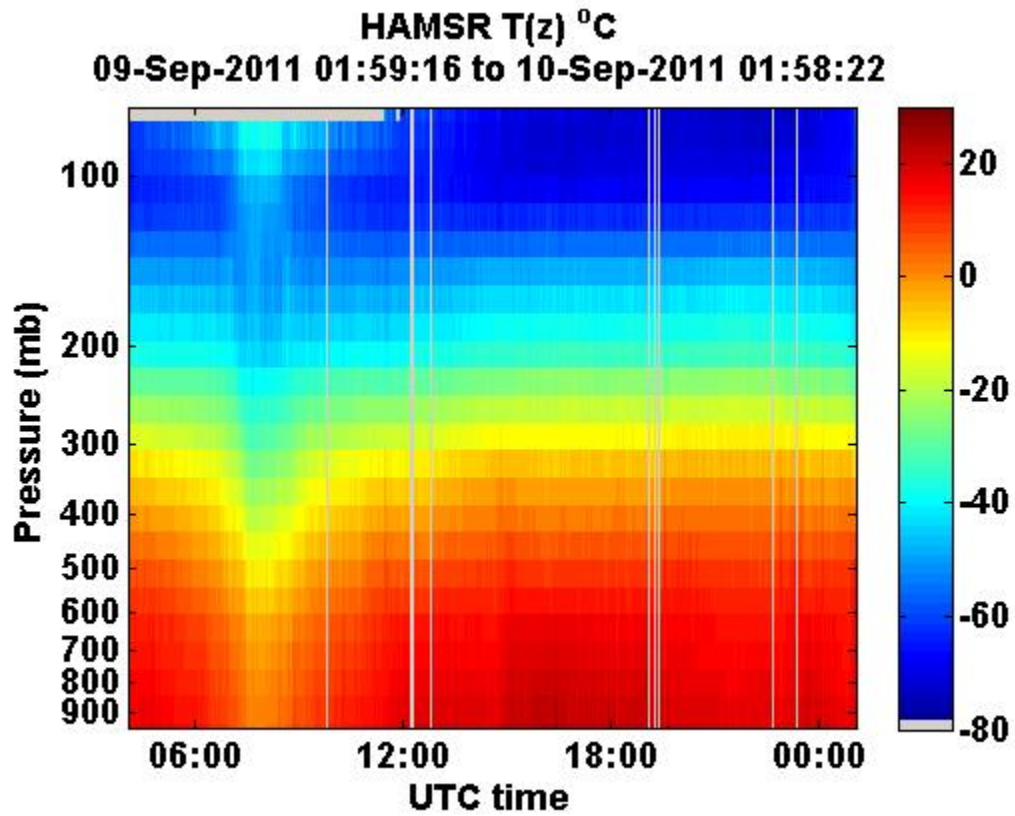
### Precipitable Water Vapor

Mean: -0.64874 mm  
StdDev: 3.5163 mm

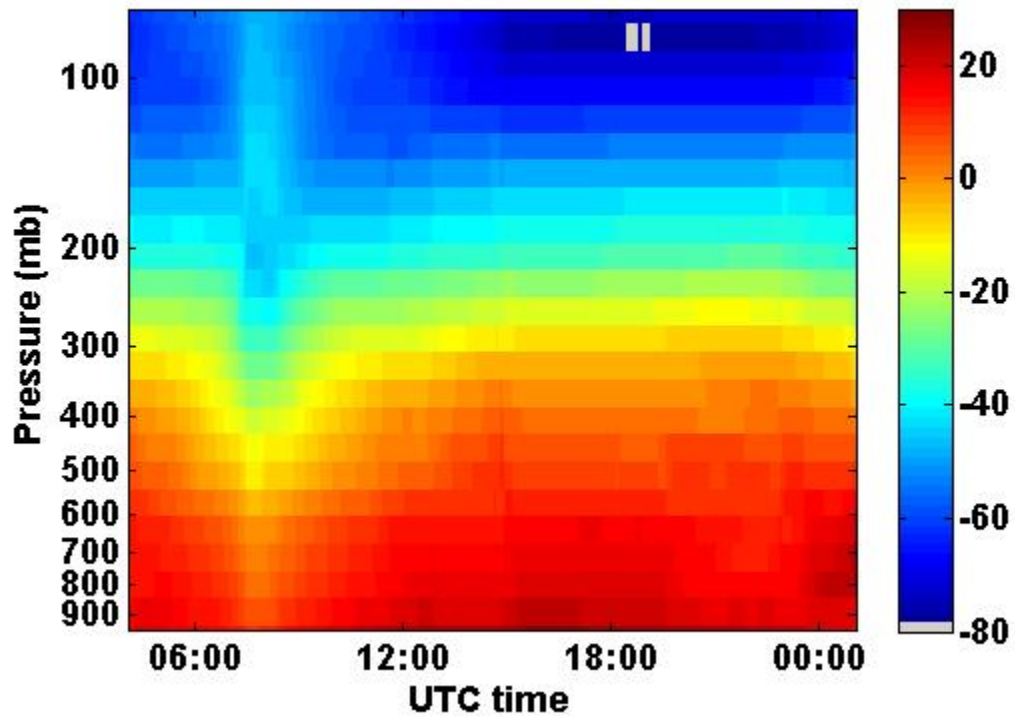


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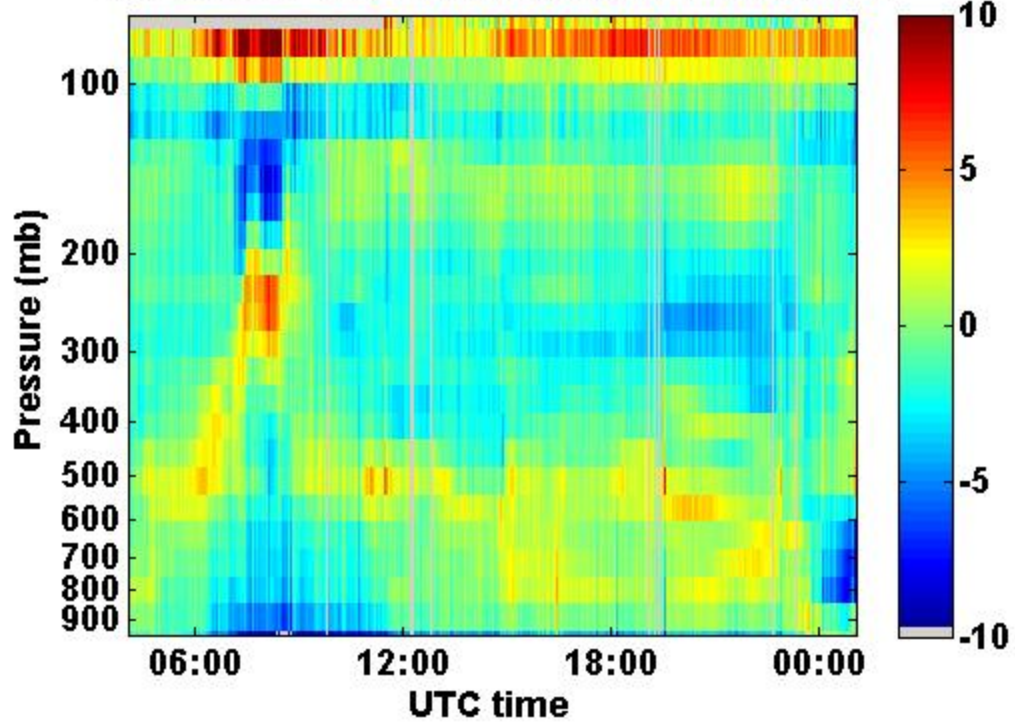
# Temperature with MERRA

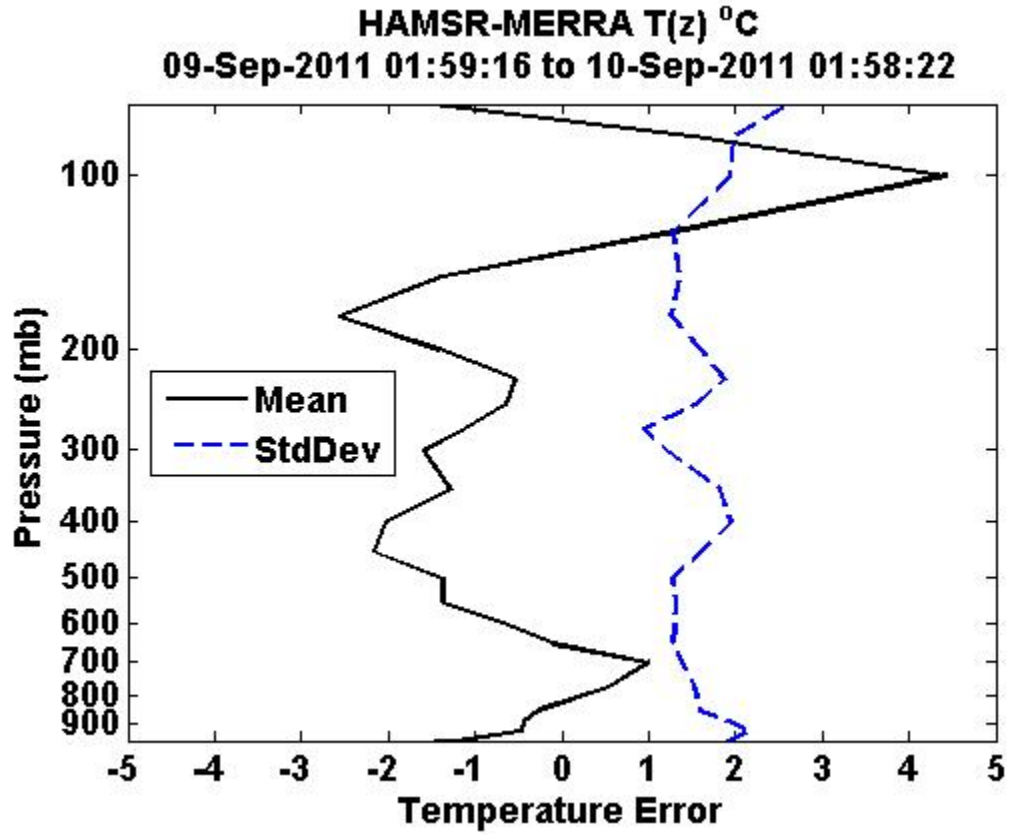


**MERRA T(z) °C**  
09-Sep-2011 01:59:16 to 10-Sep-2011 01:58:22



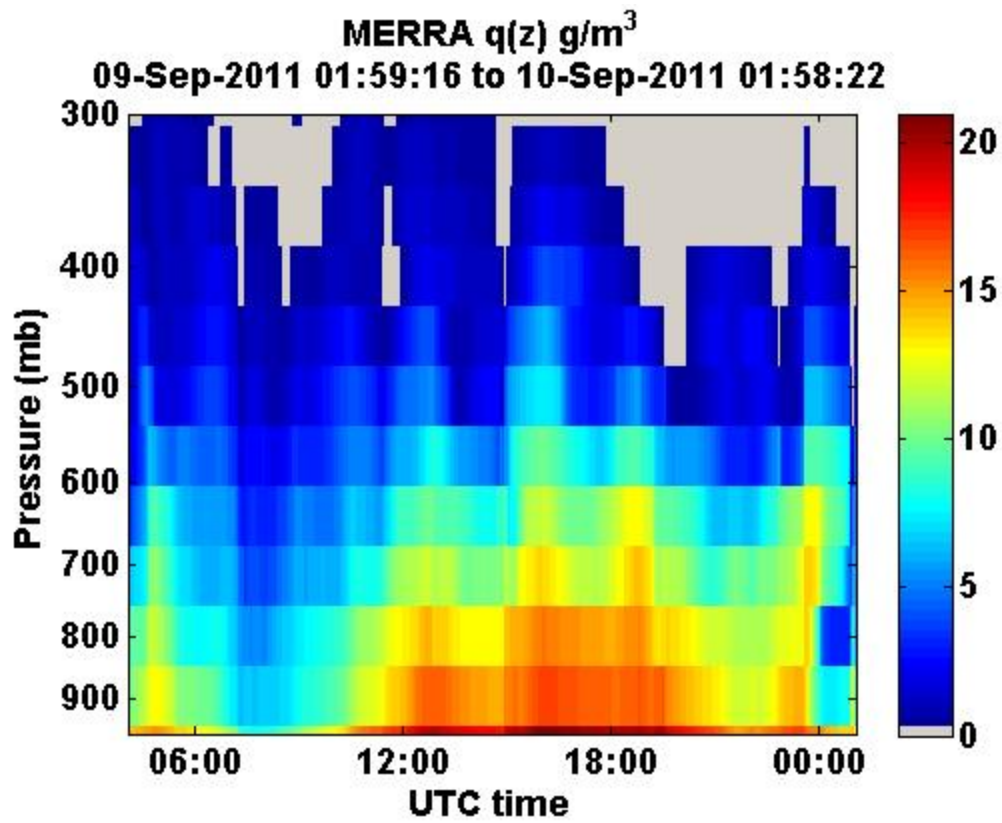
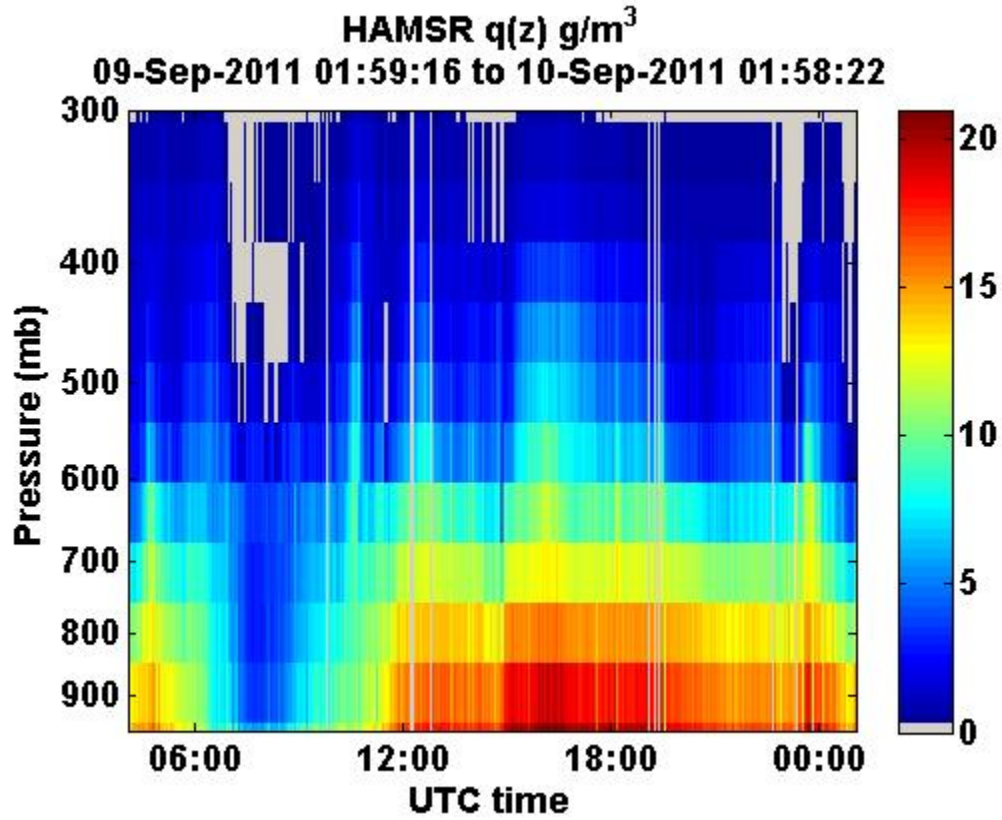
**HAMSR-MERRA T(z) °C**  
09-Sep-2011 01:59:16 to 10-Sep-2011 01:58:22

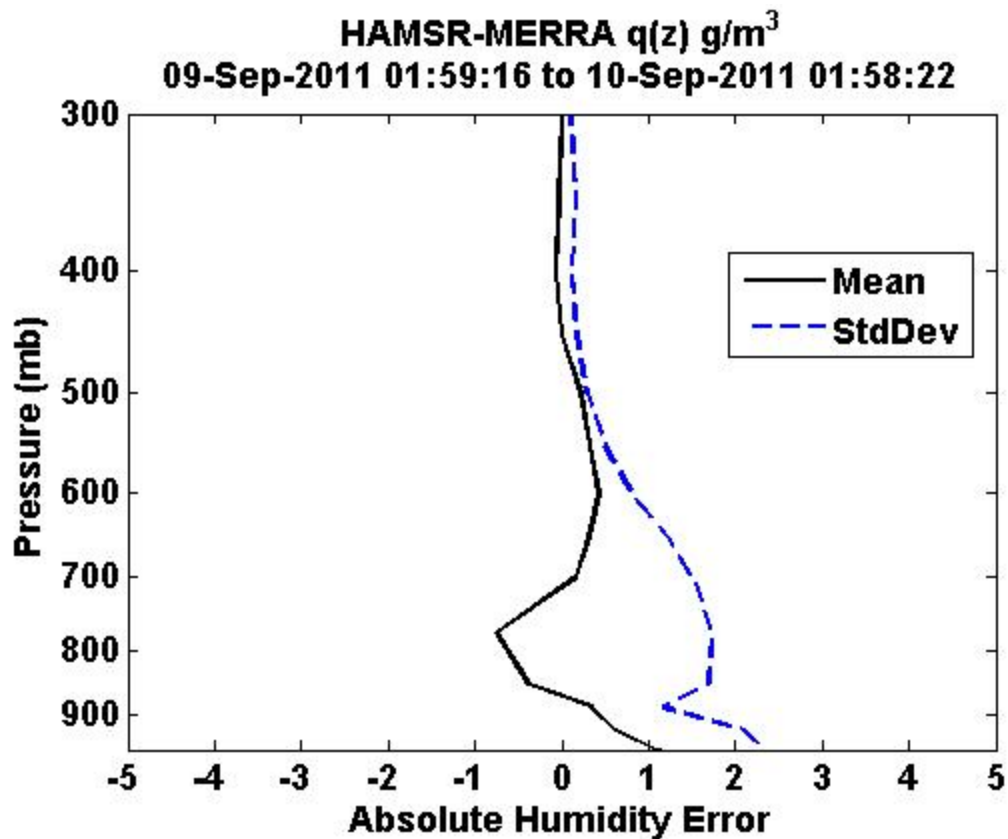
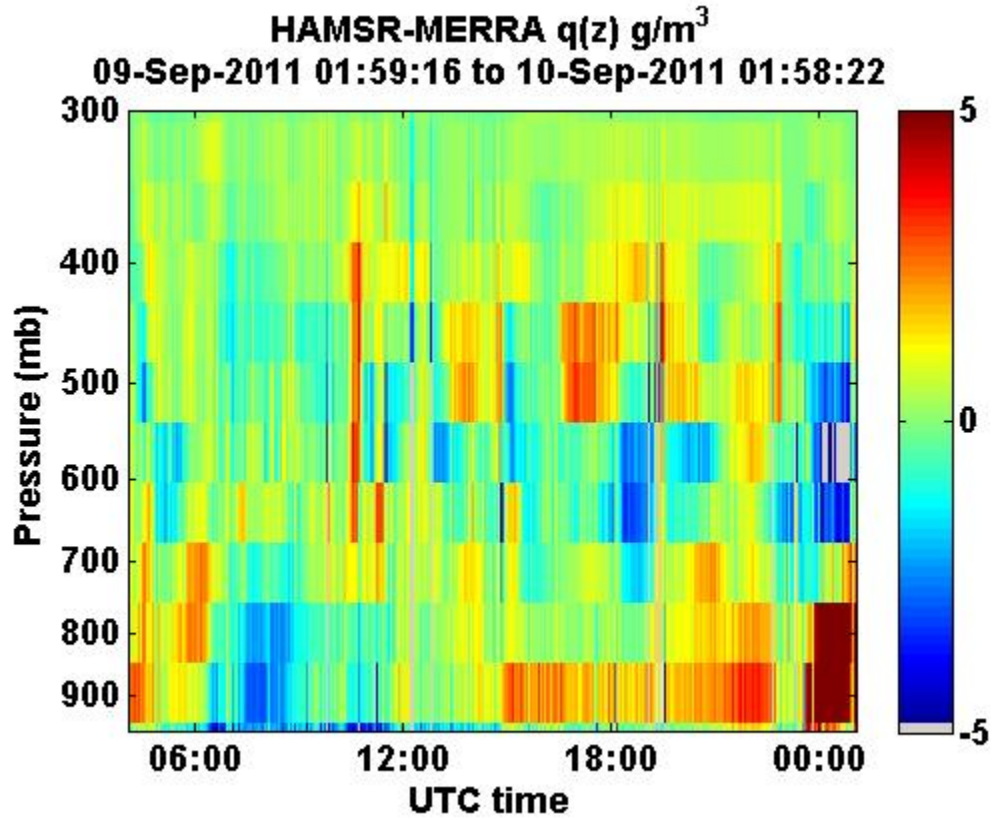




## Absolute Humidity with MERRA



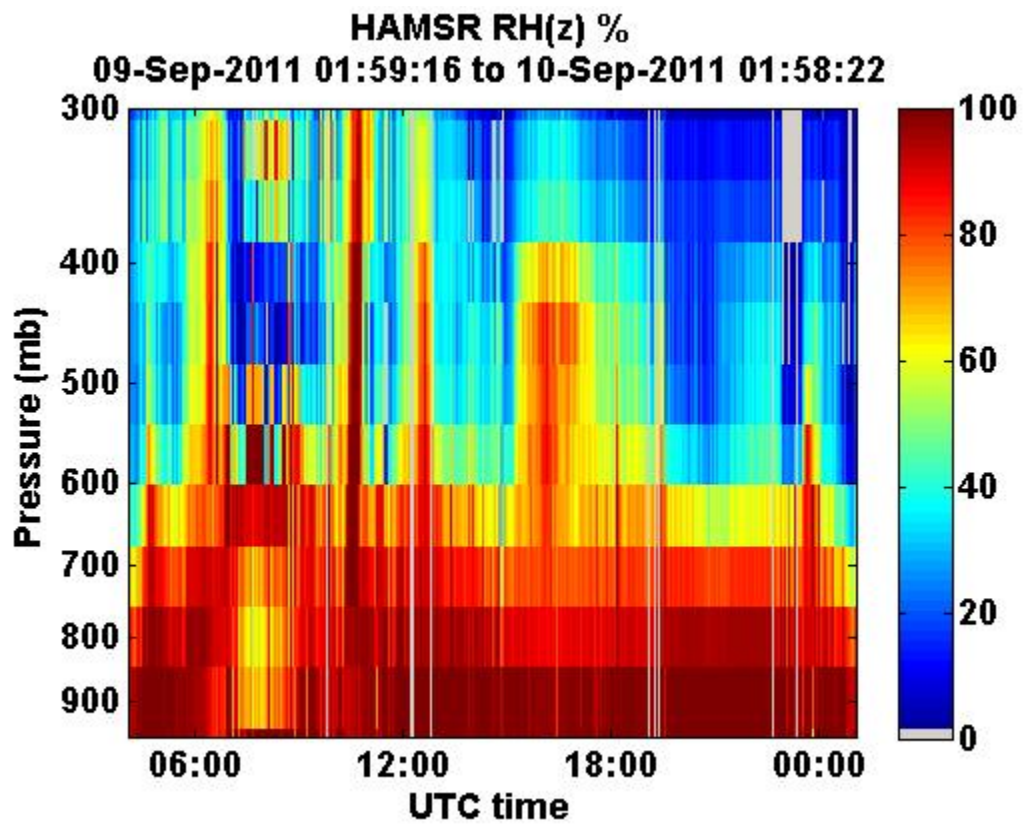


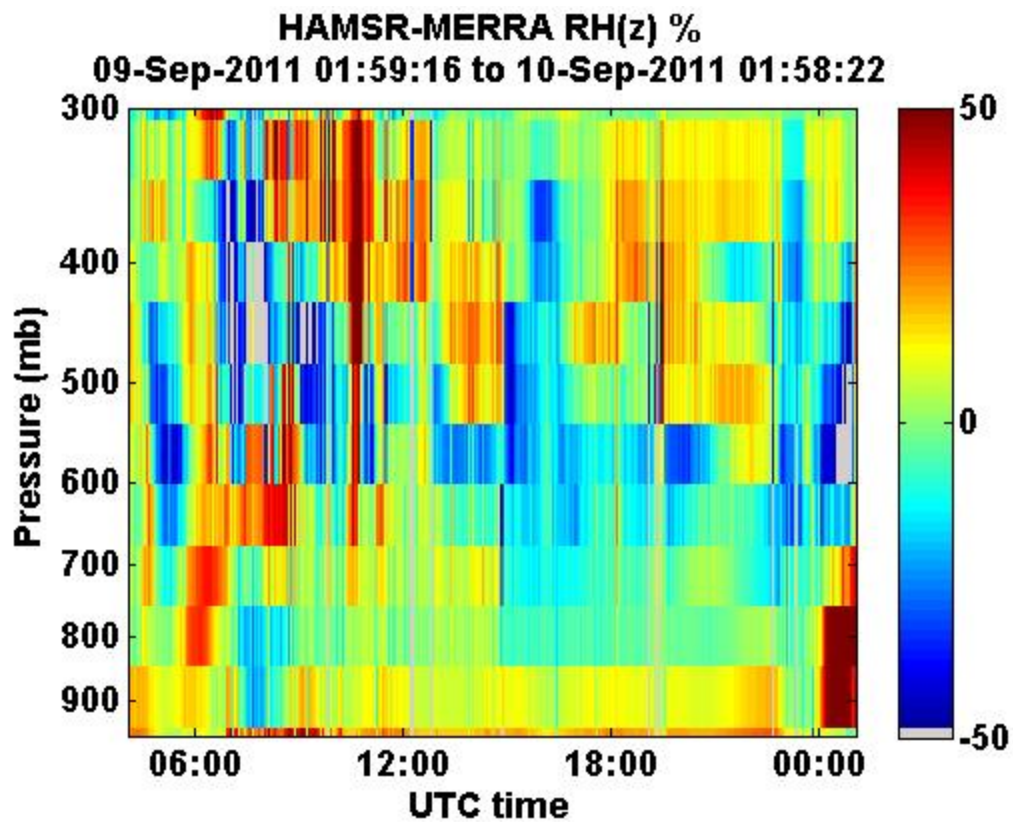
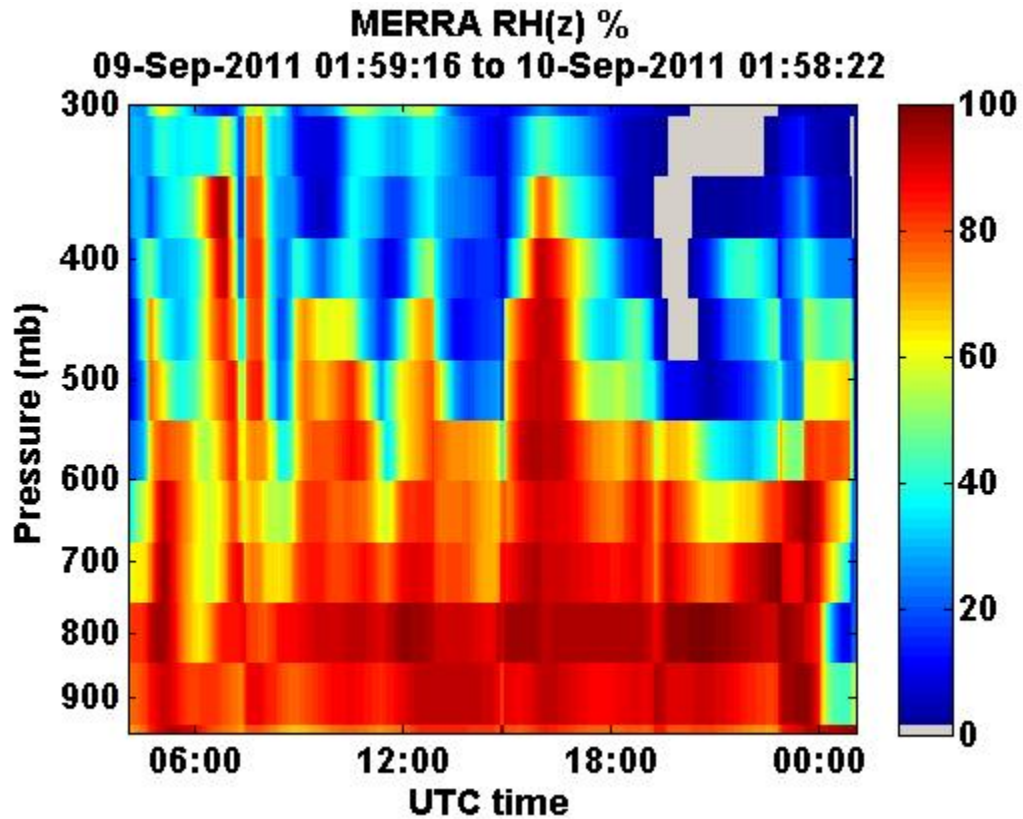


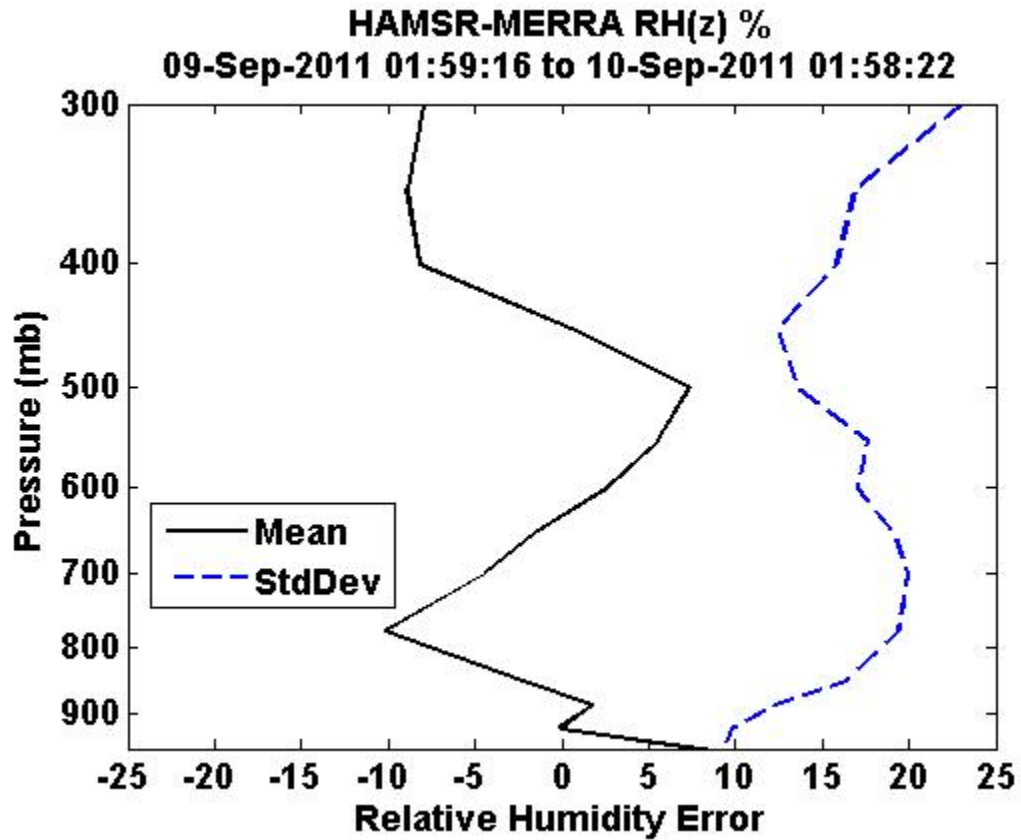


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# Relative Humidity with MERRA

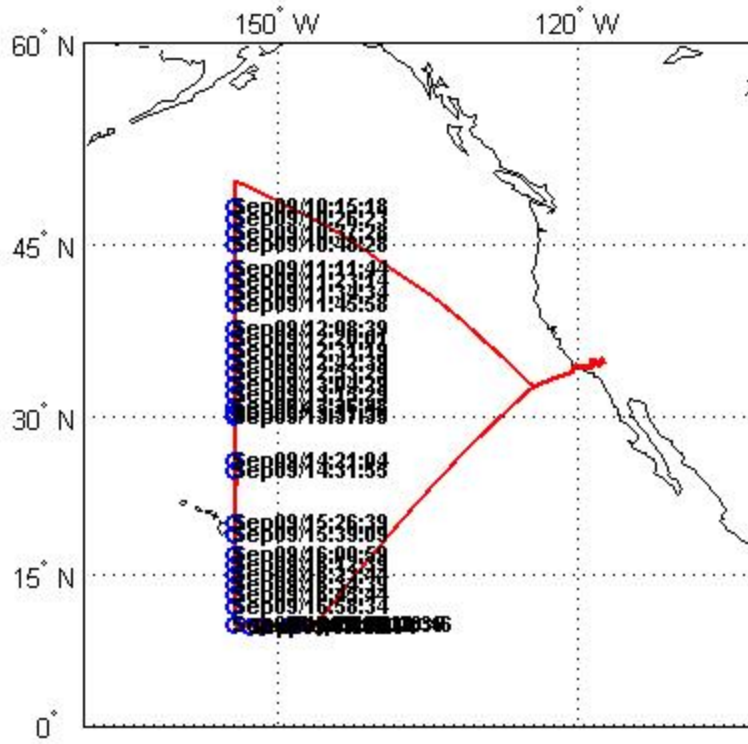
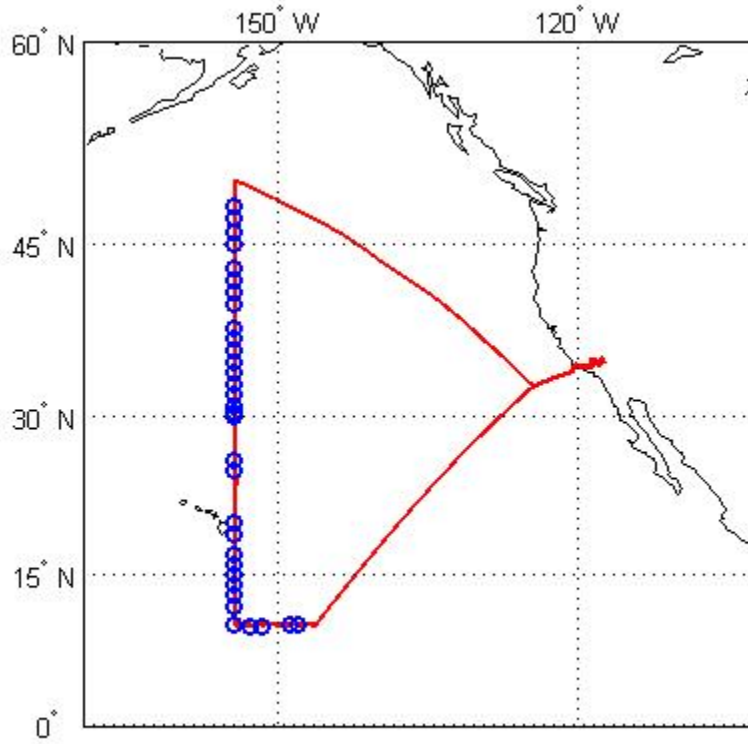






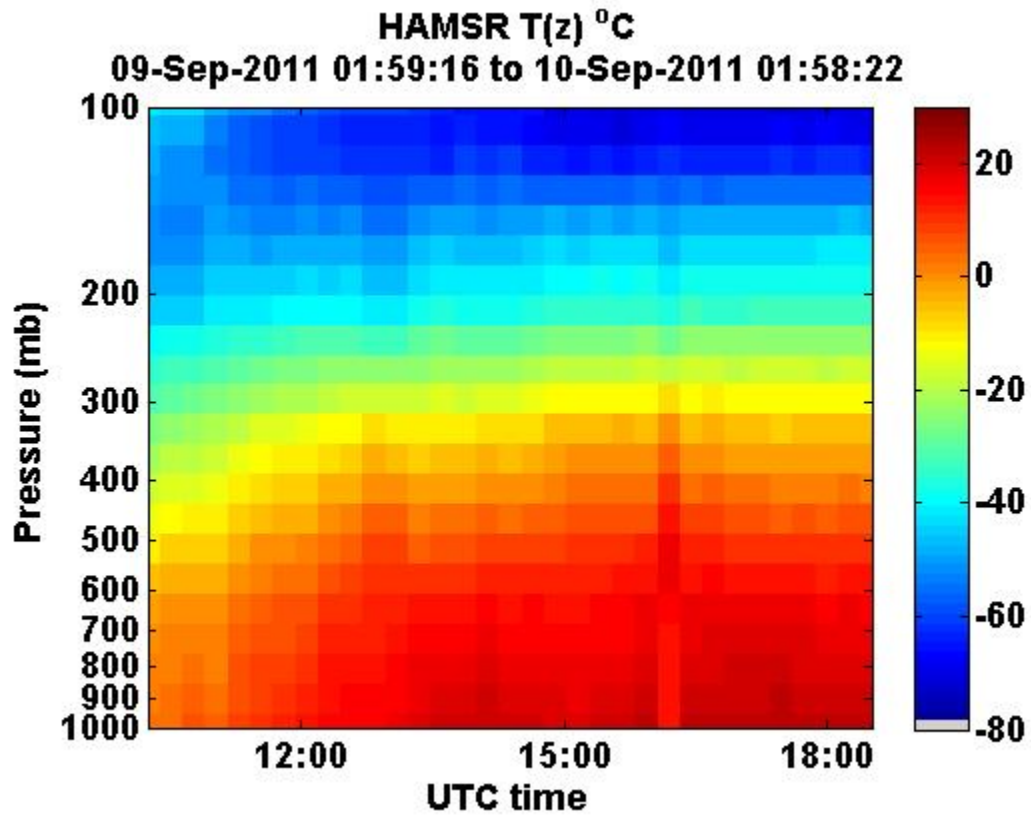
**Dropsonde comparisons**

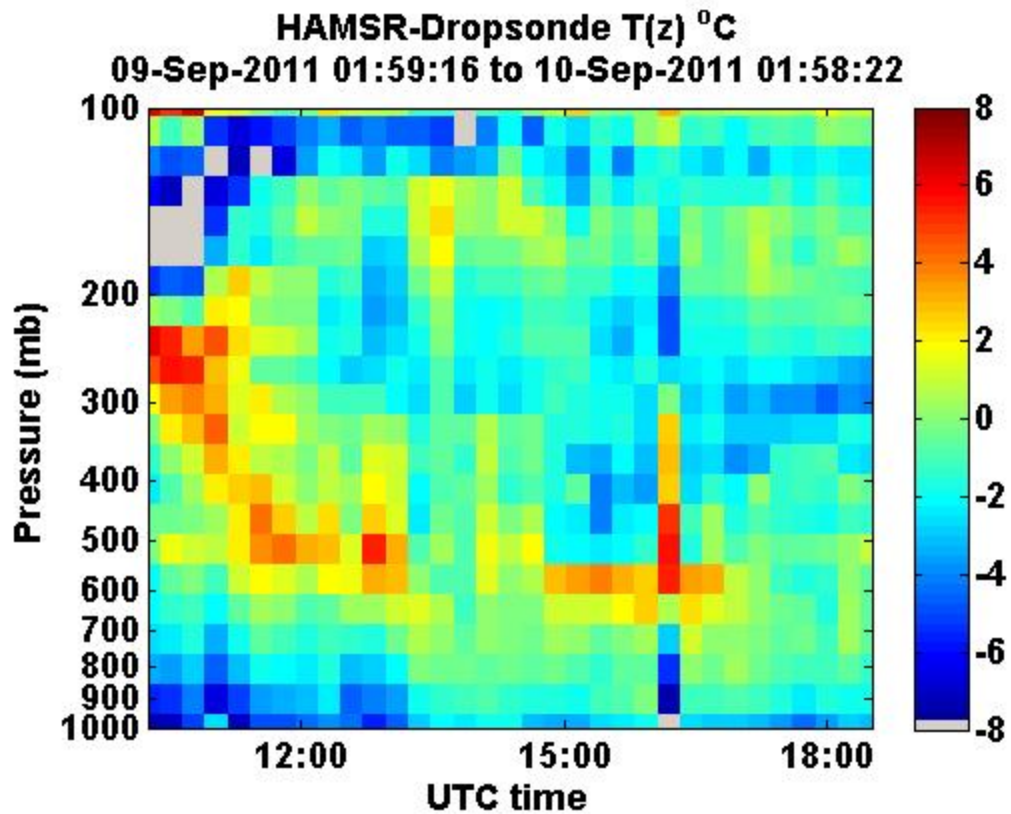
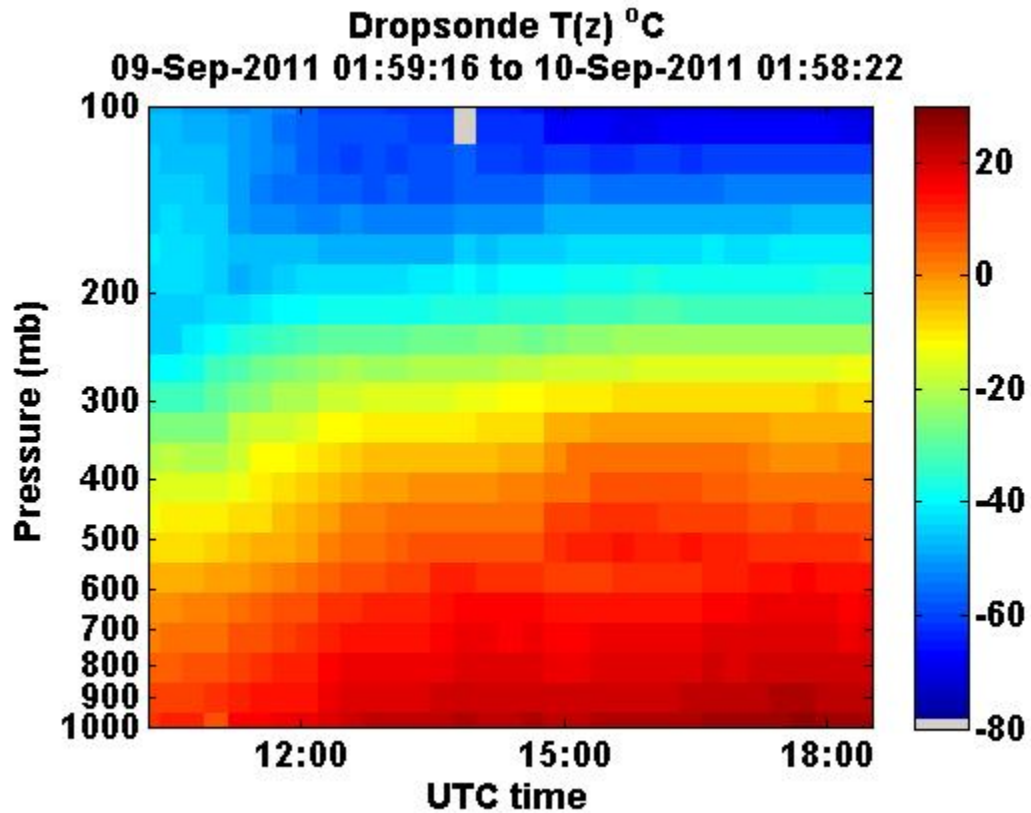
**Dropsonde locations**



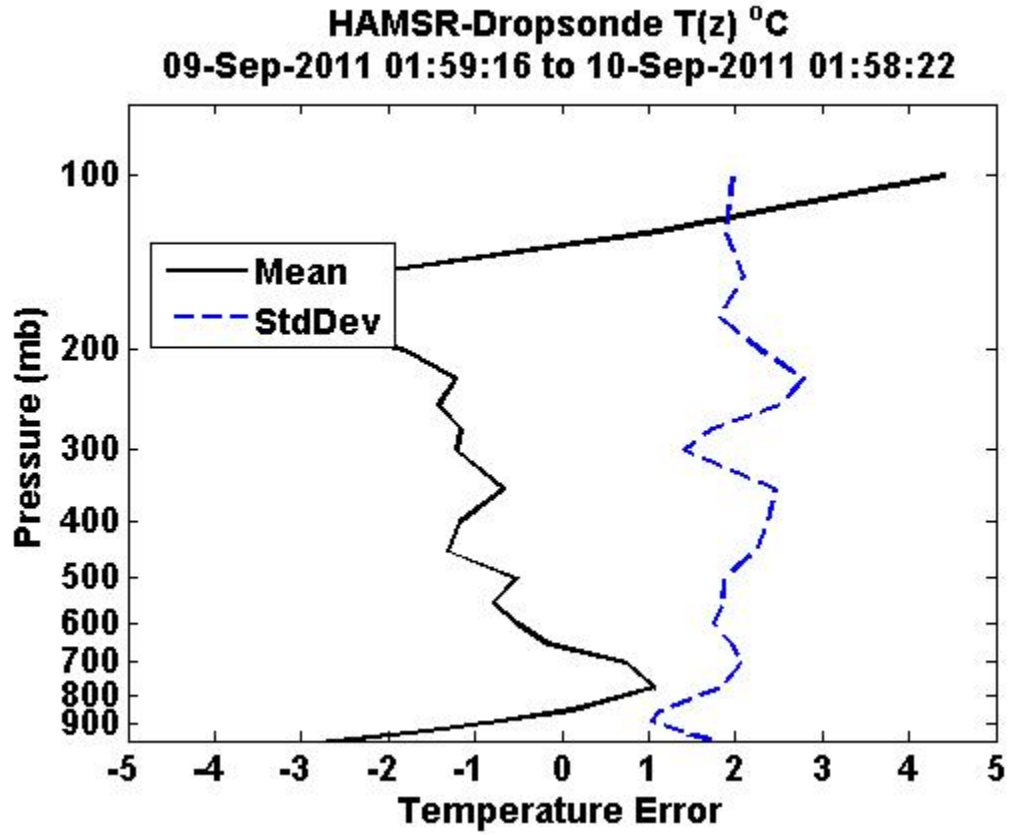
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# Temperature with Dropsondes

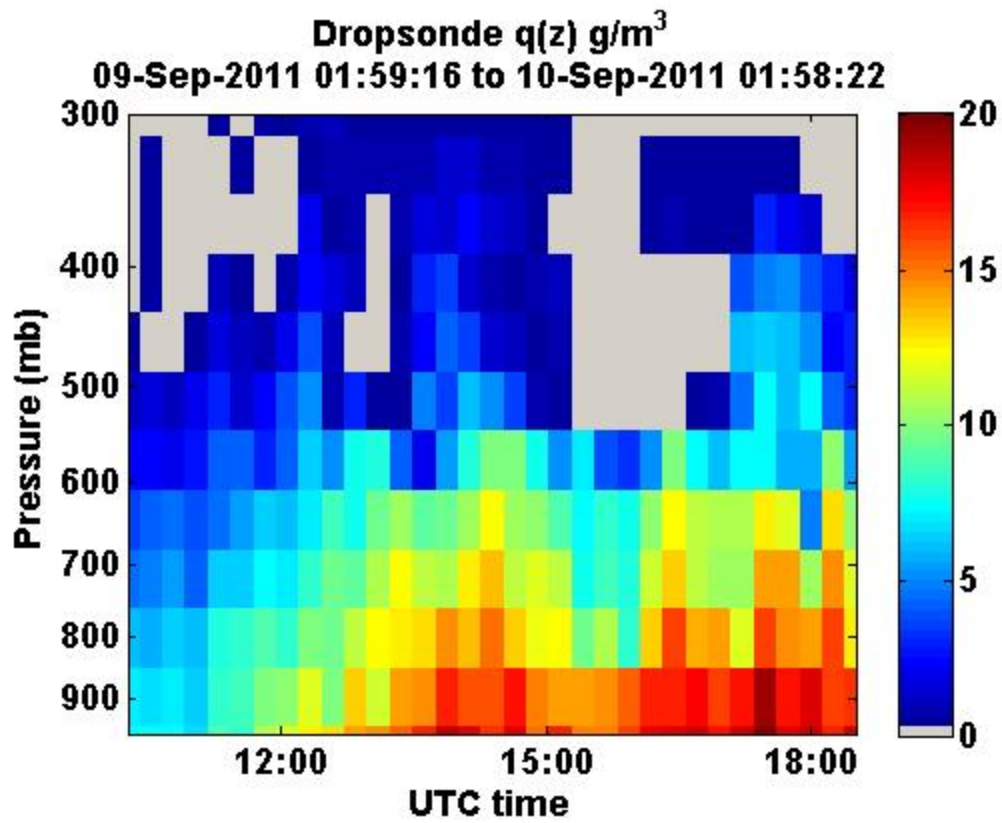
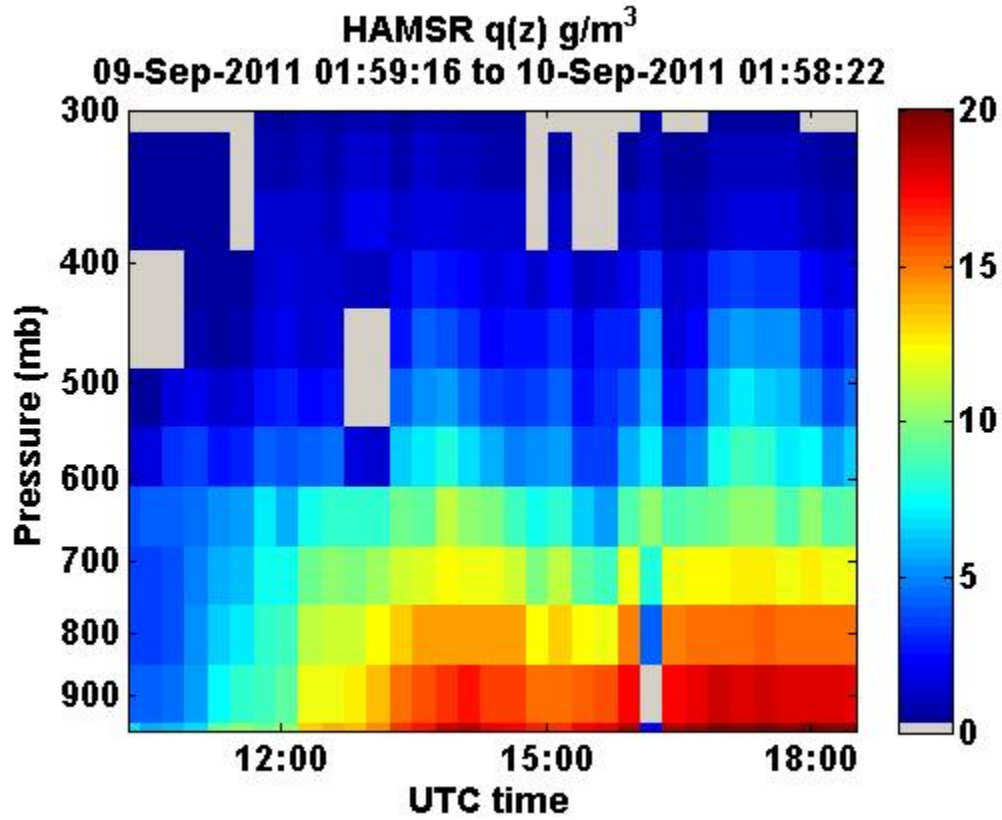


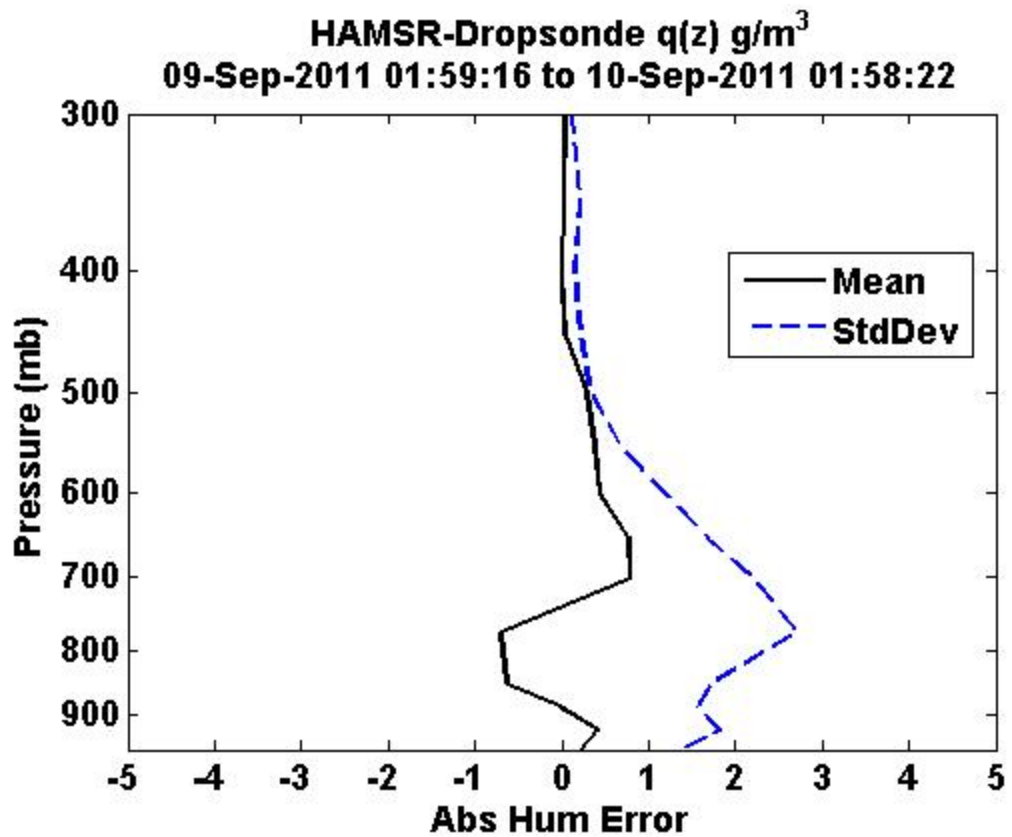
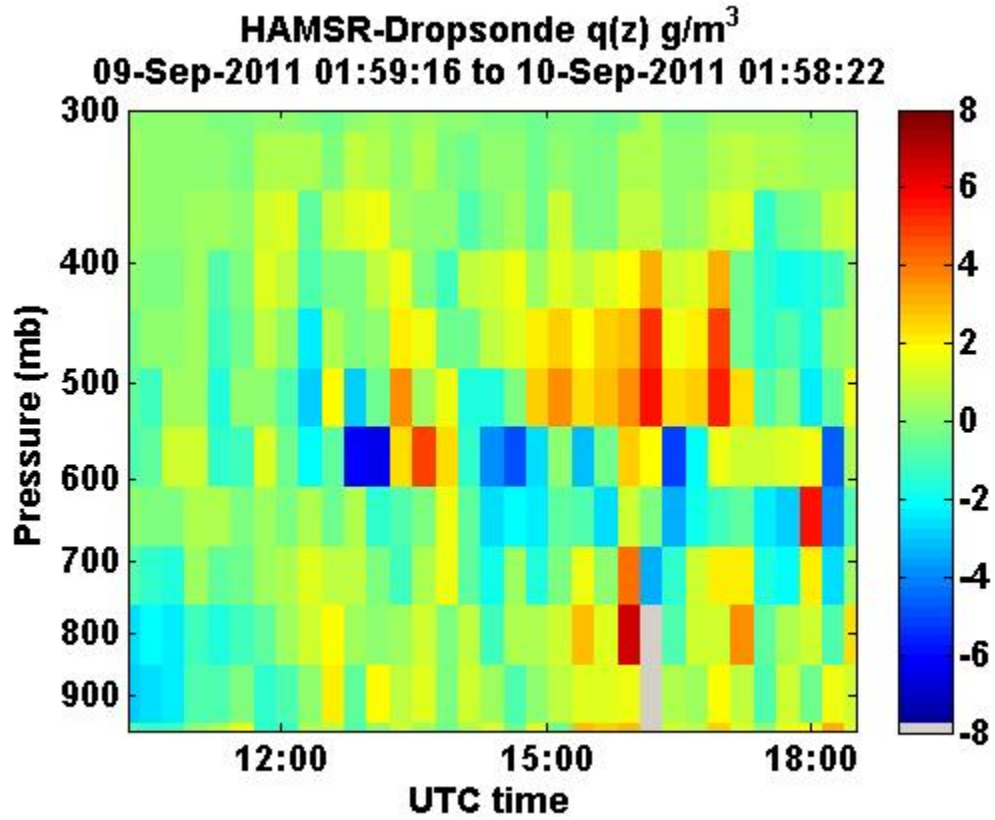






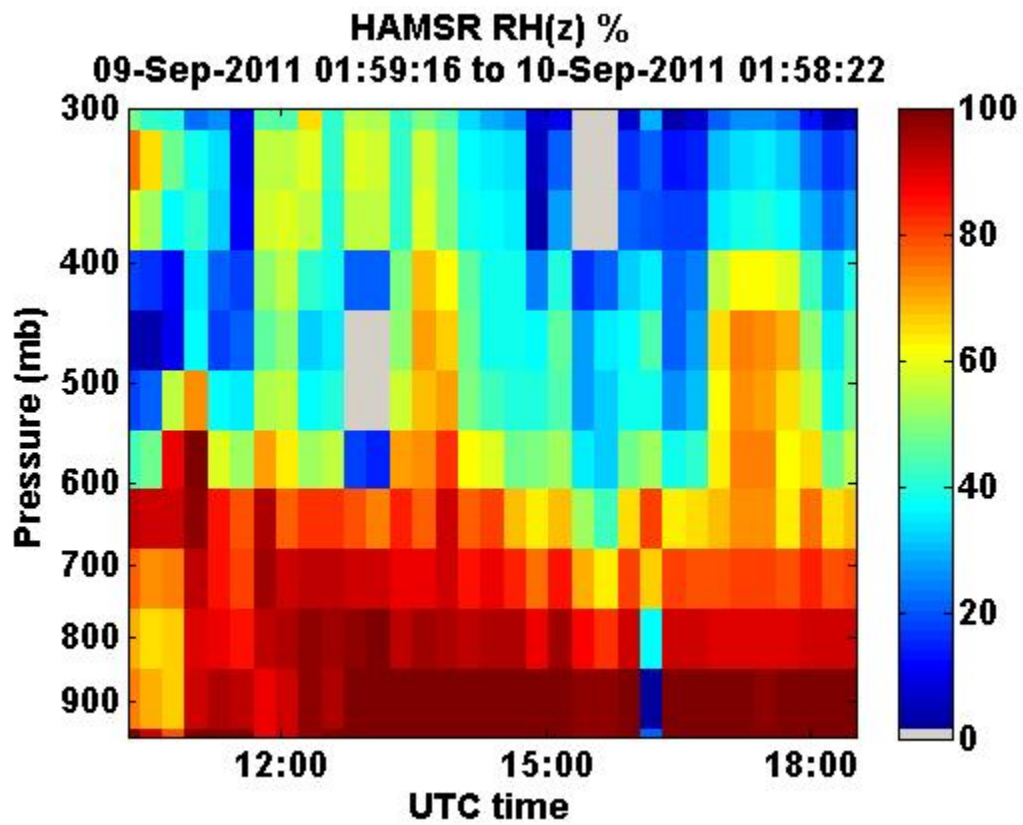
## Absolute Humidity with Dropsondes

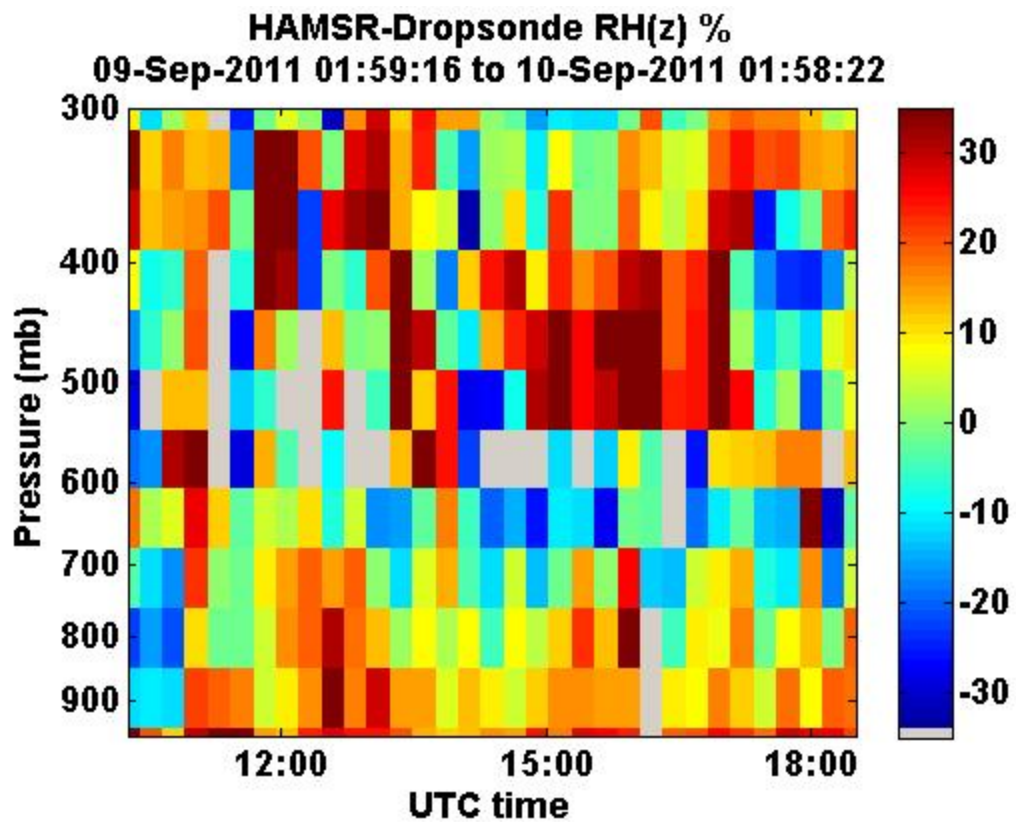
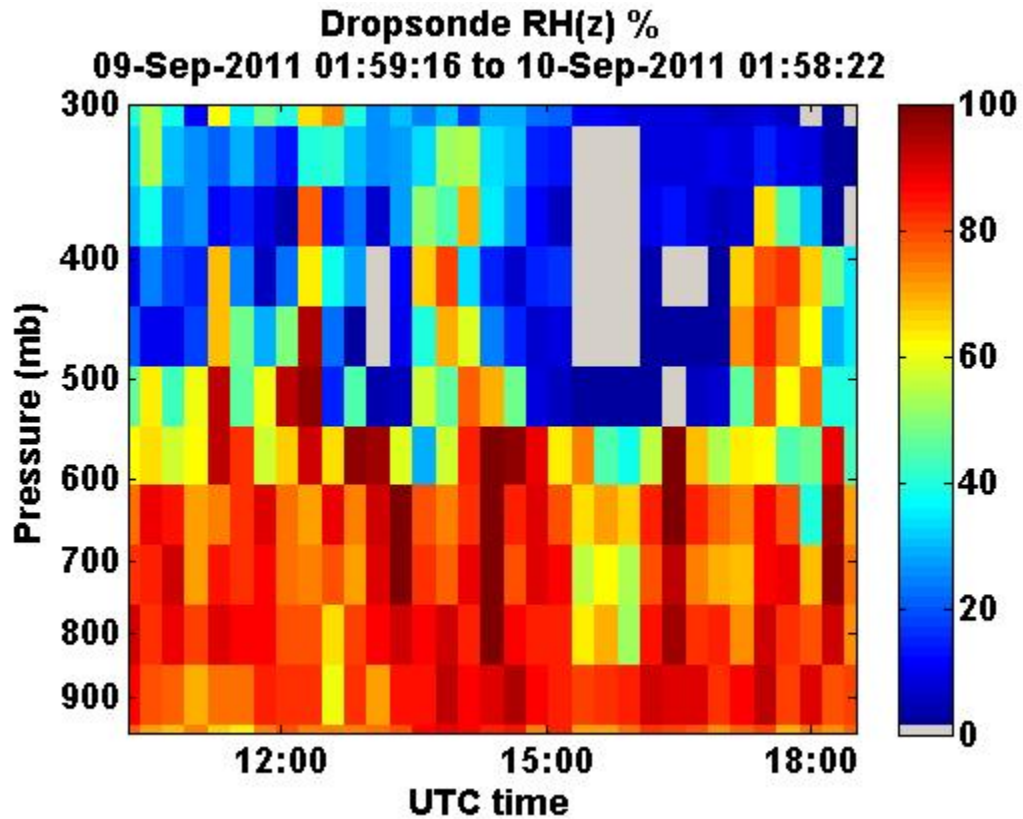


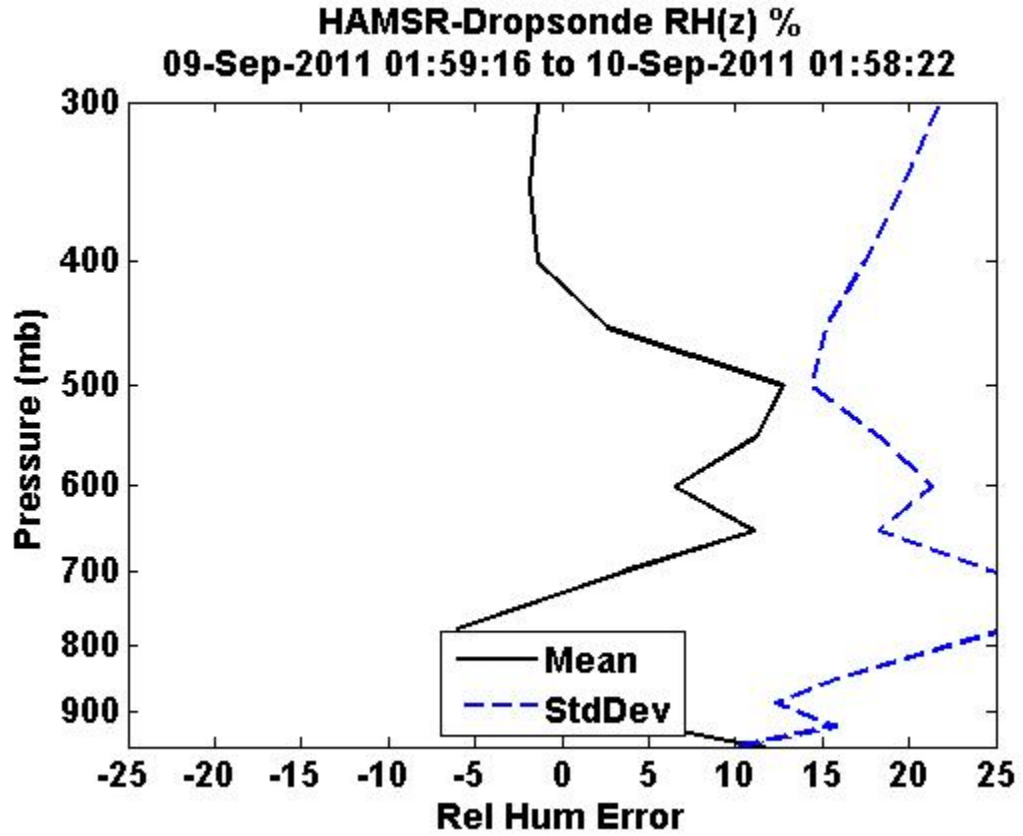


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# Relative Humidity with Dropsondes





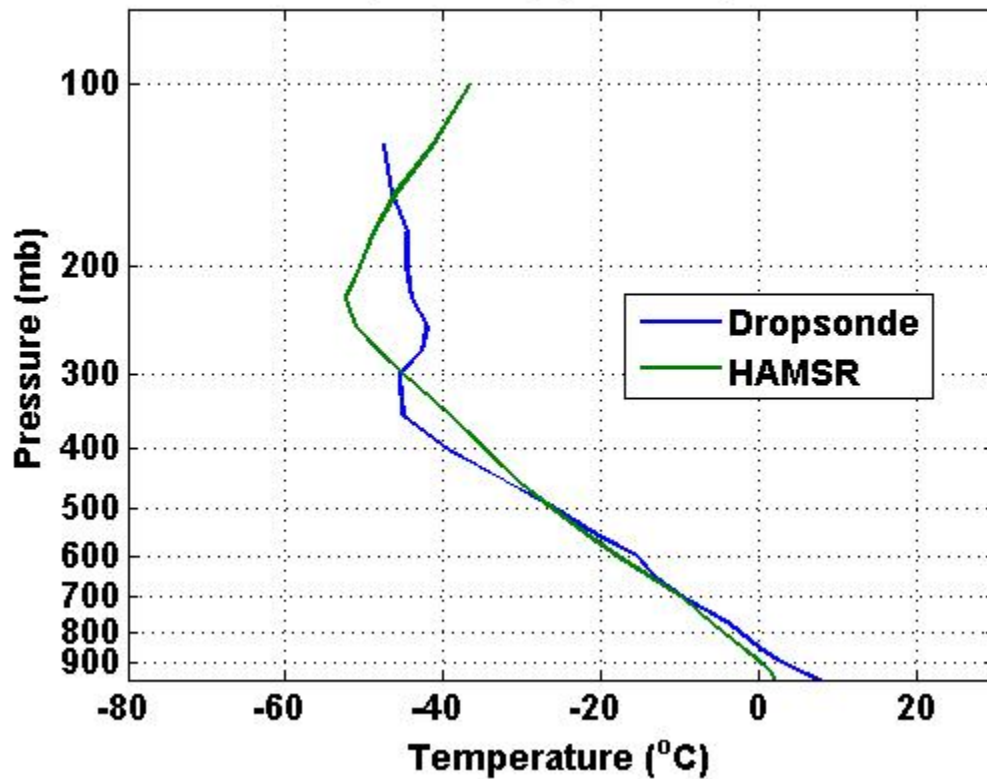


## All Dropsonde Comparisons

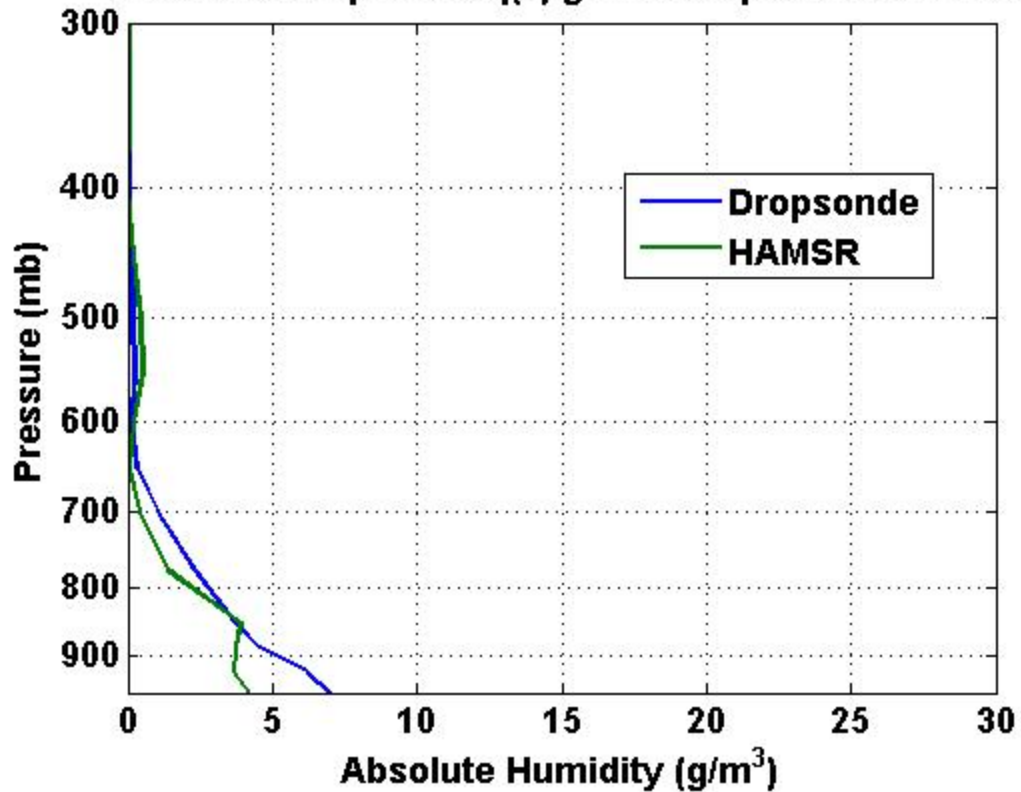
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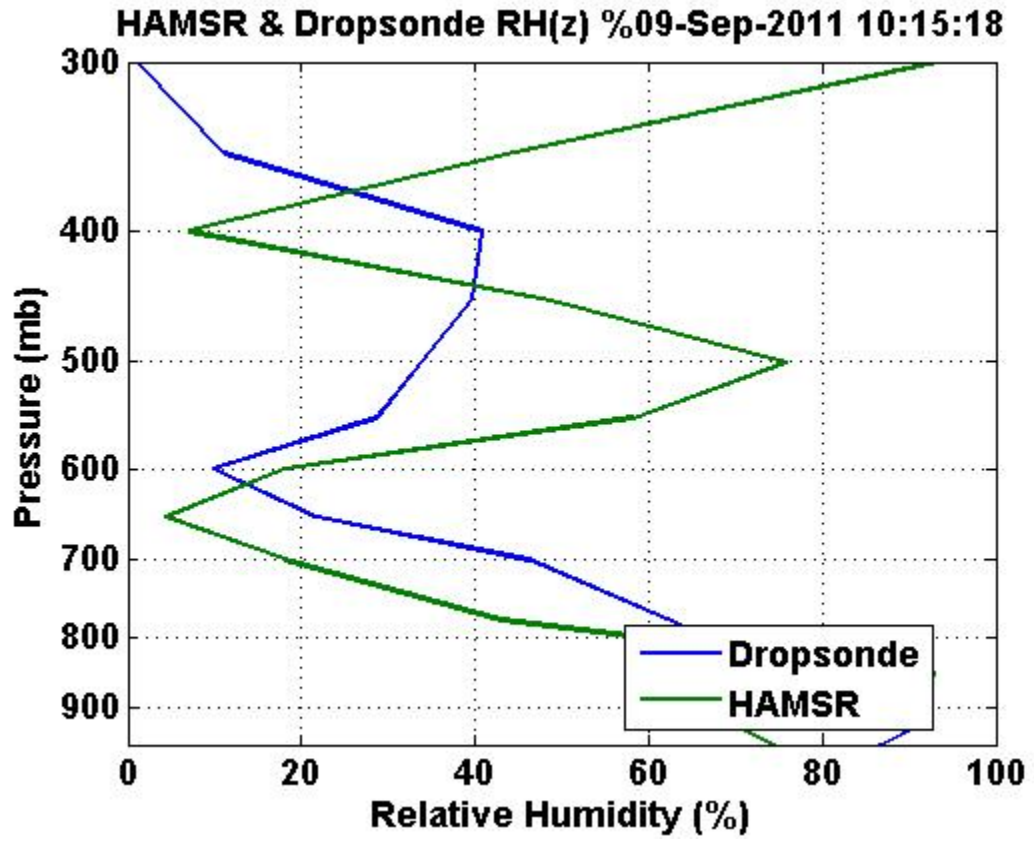


HAMSR & Dropsonde T(z) °C 09-Sep-2011 10:15:18



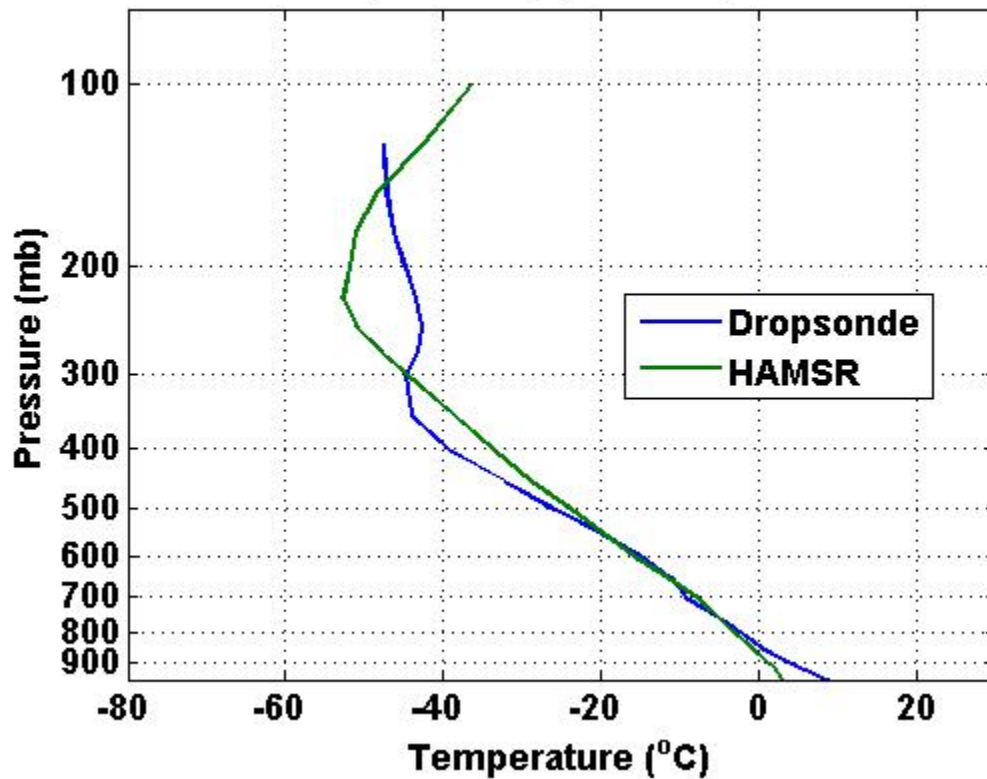
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 10:15:18



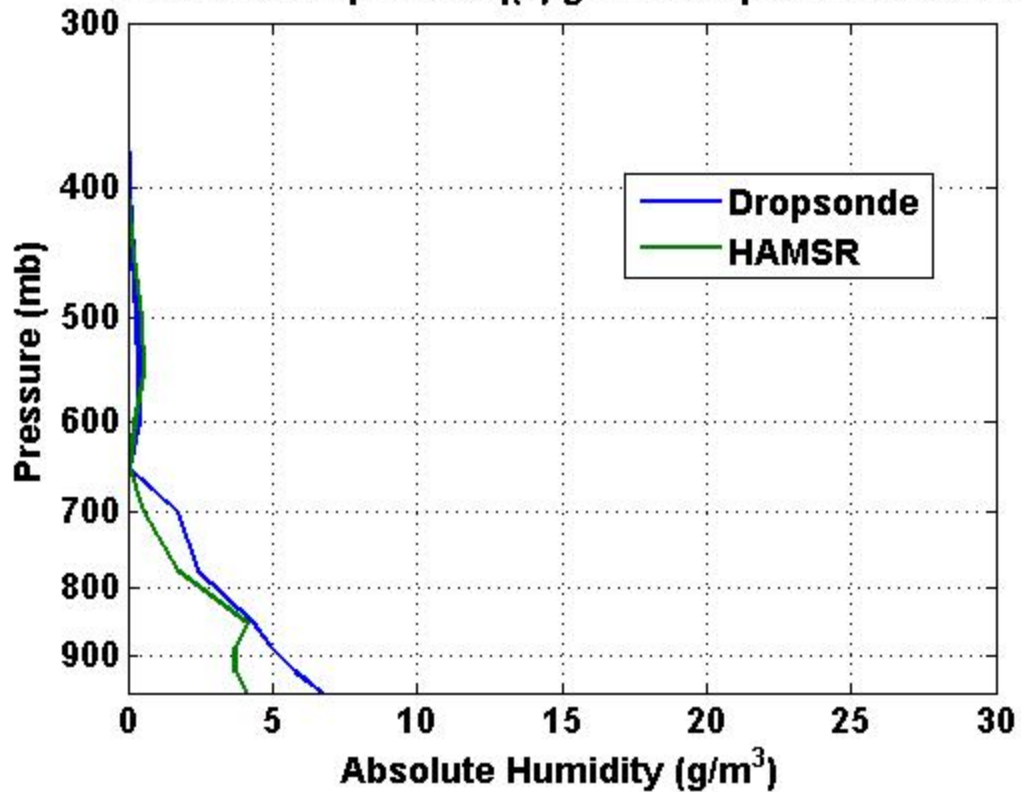


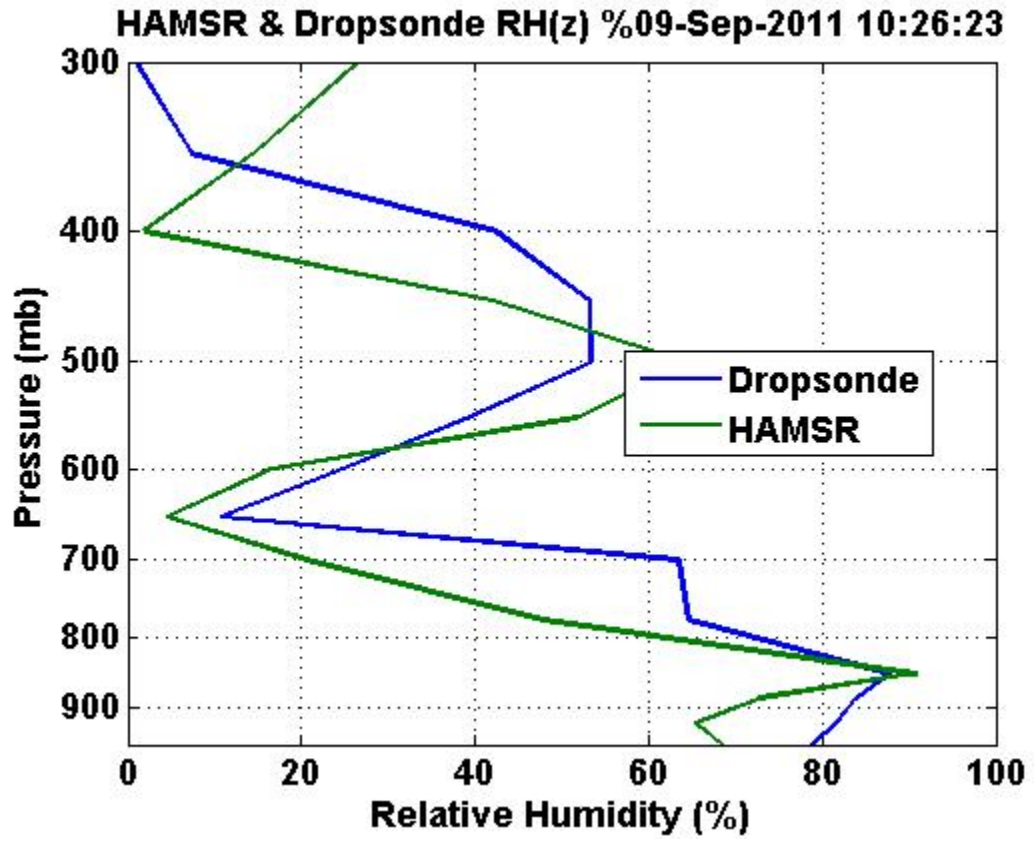
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HAMSR & Dropsonde T(z) °C 09-Sep-2011 10:26:23



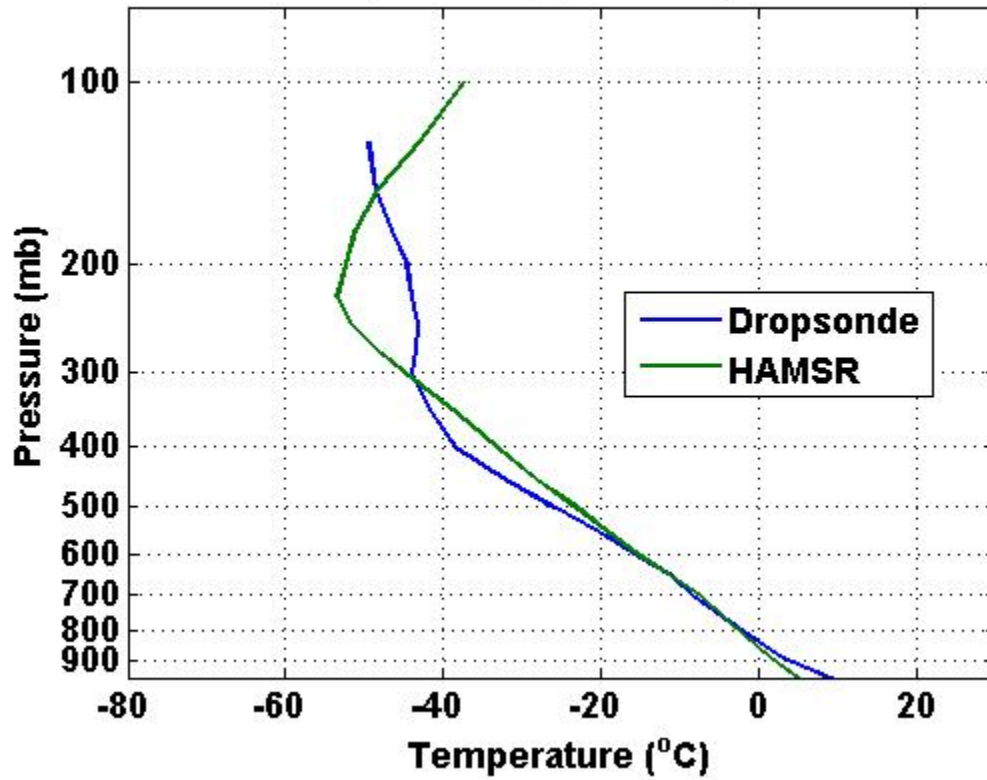
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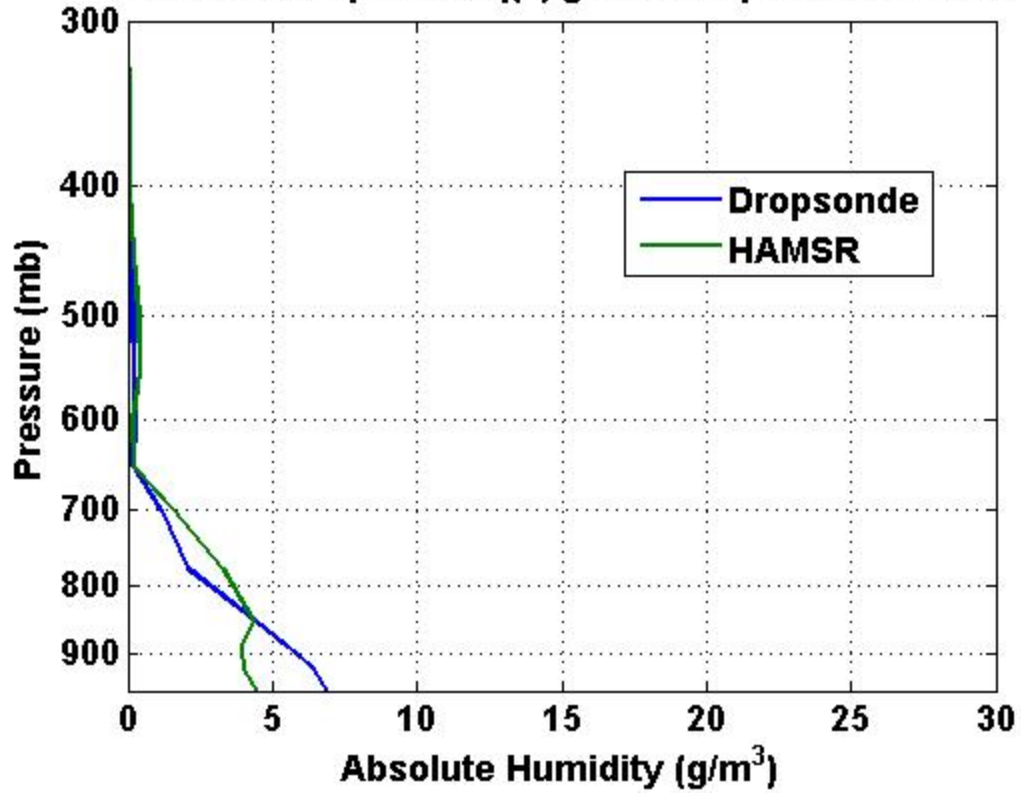


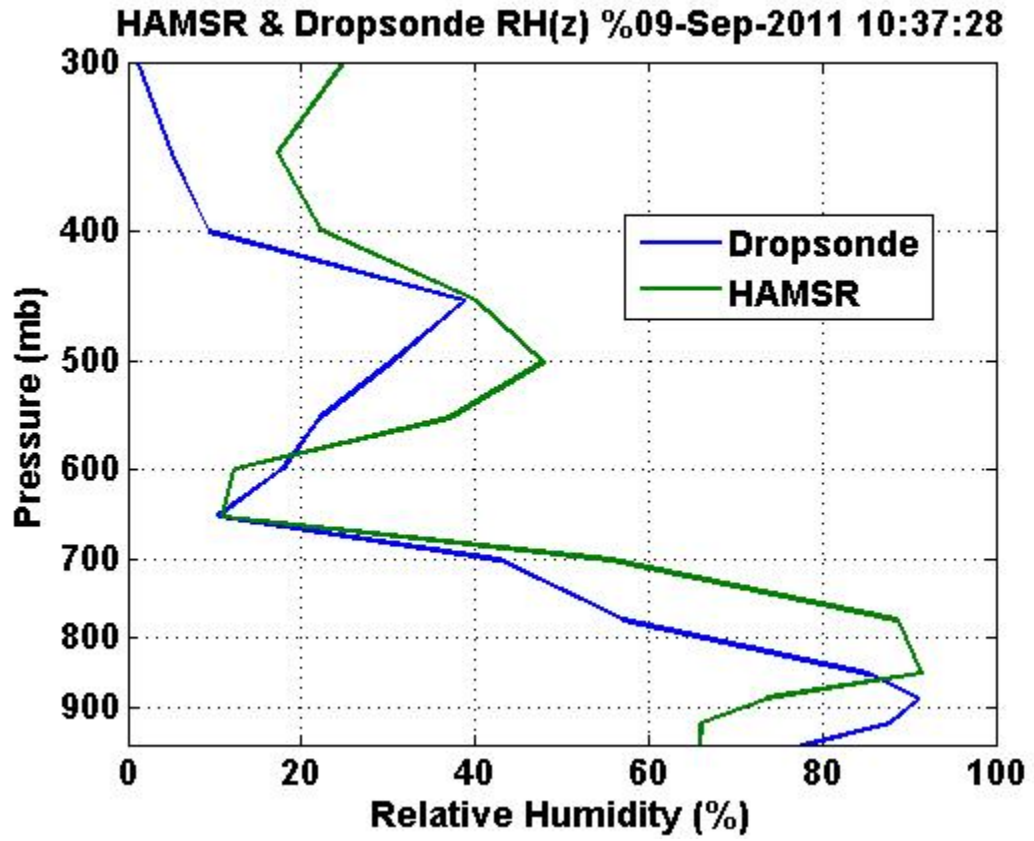
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HAMSR & Dropsonde T(z) °C 09-Sep-2011 10:37:28



HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 10:37:28

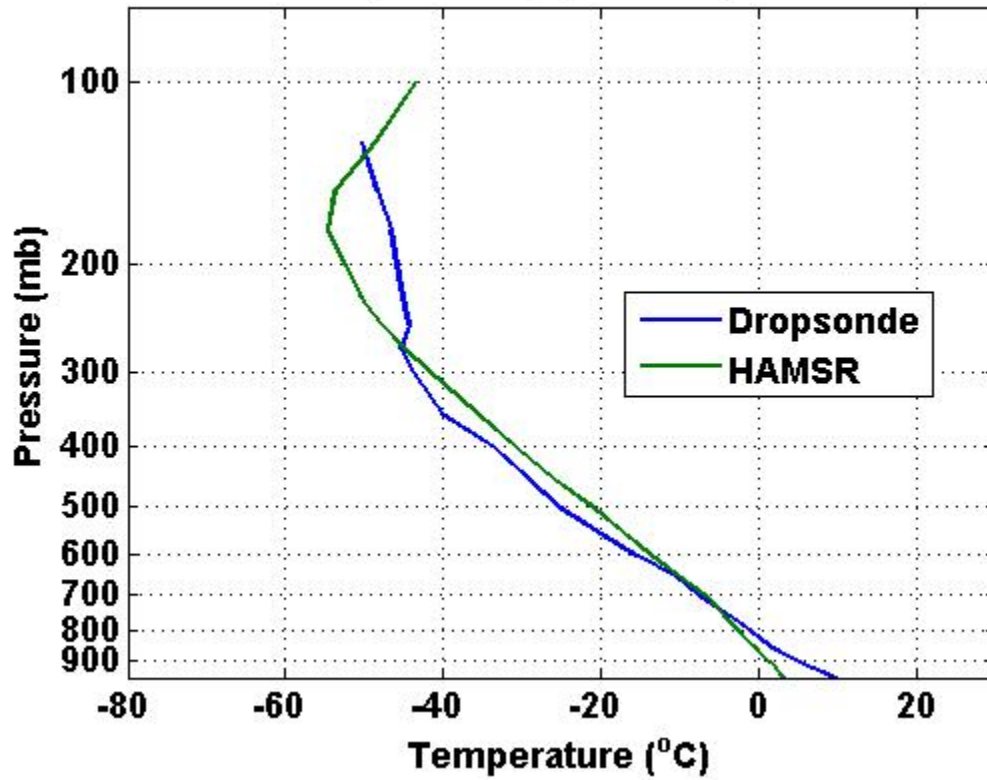




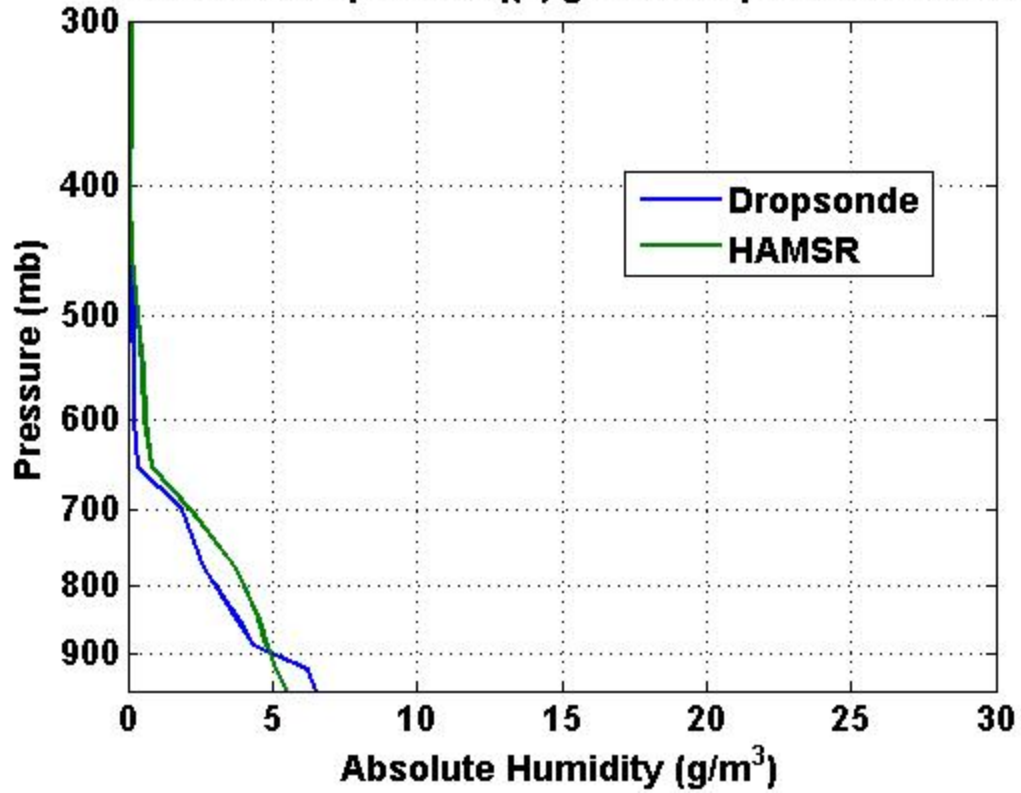
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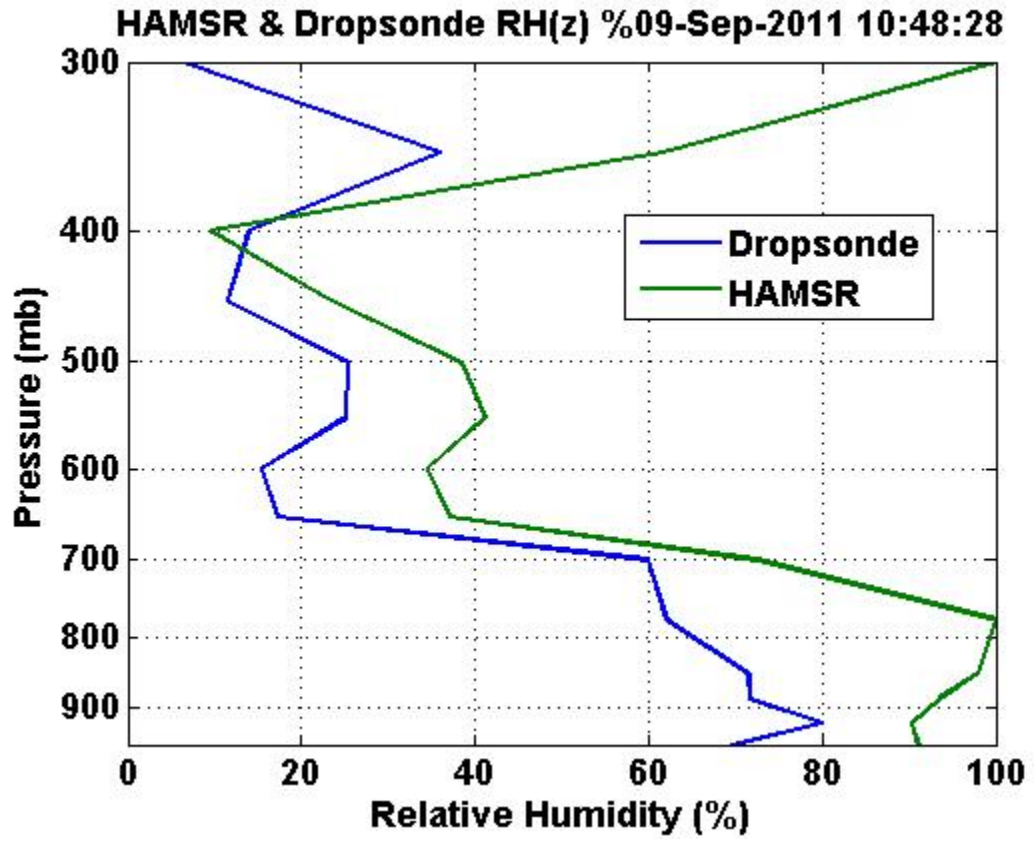


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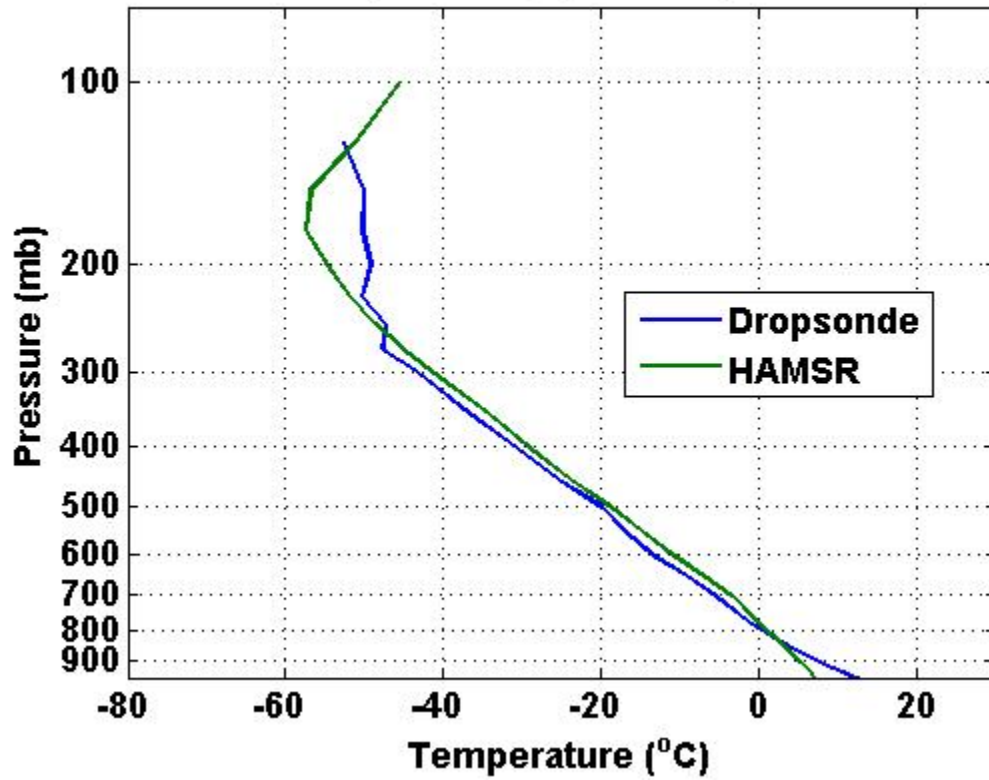
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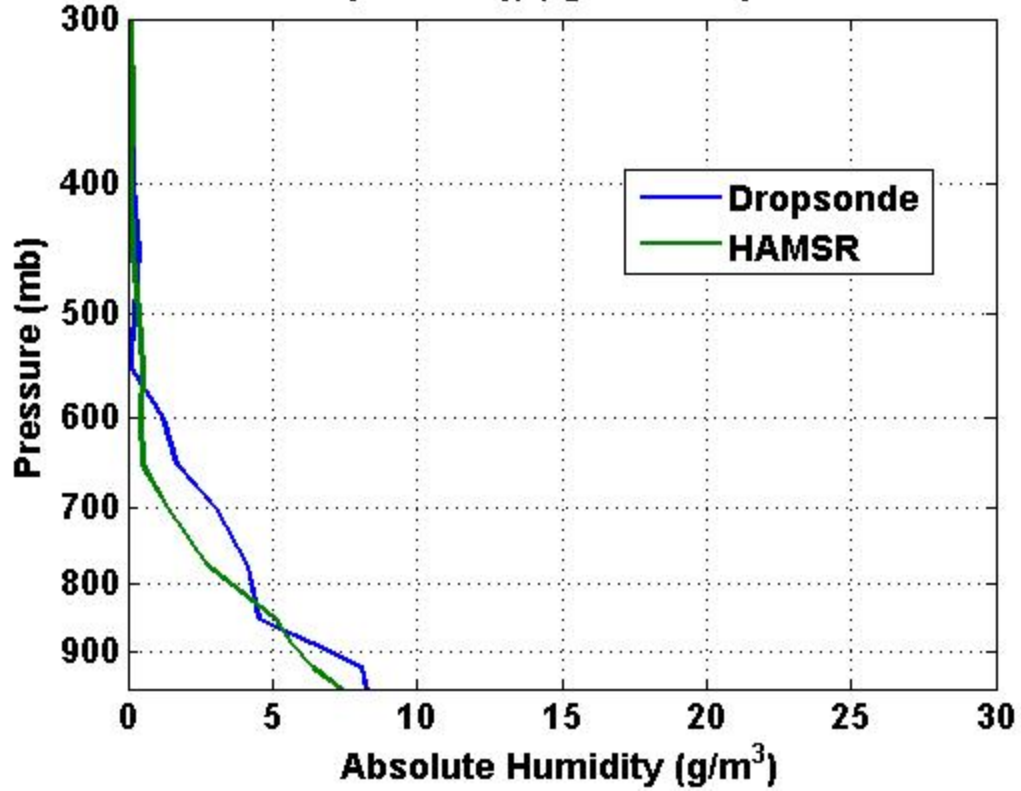


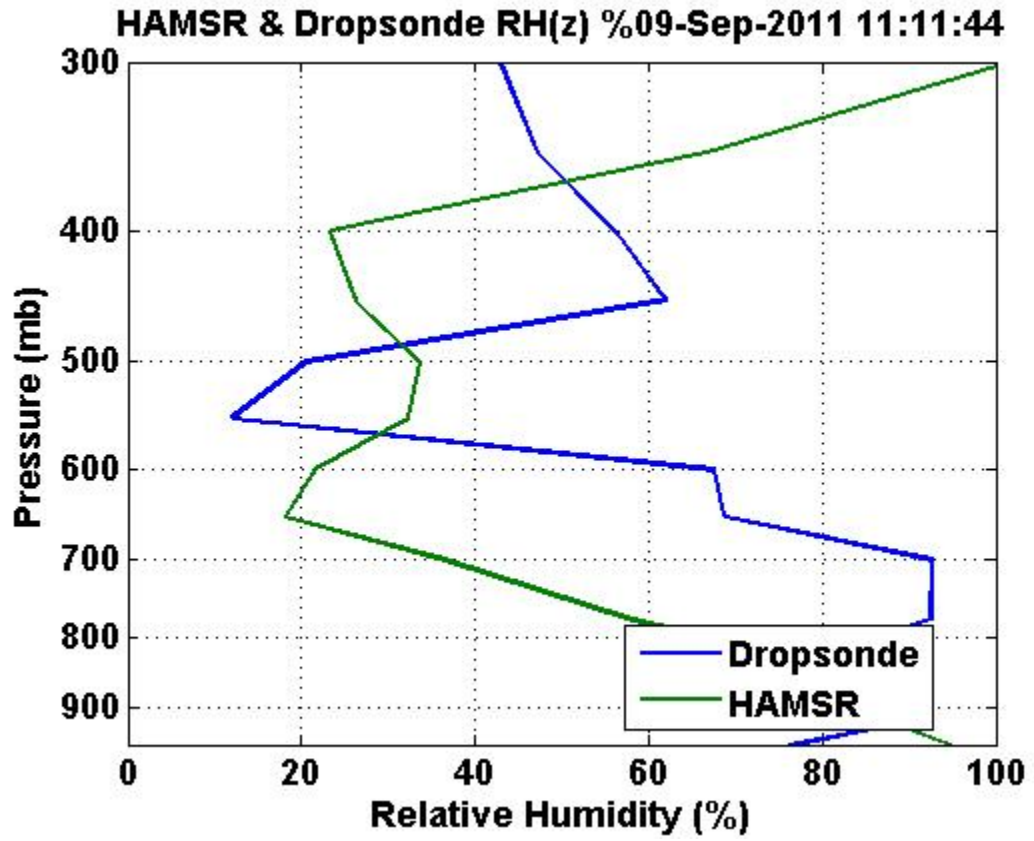
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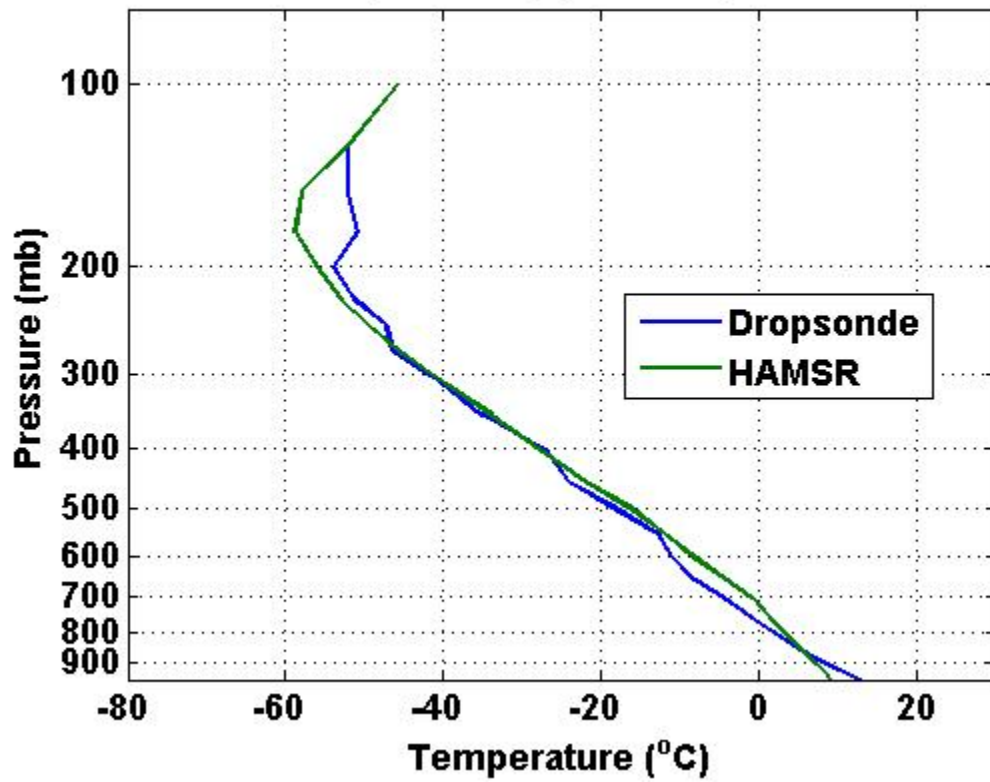
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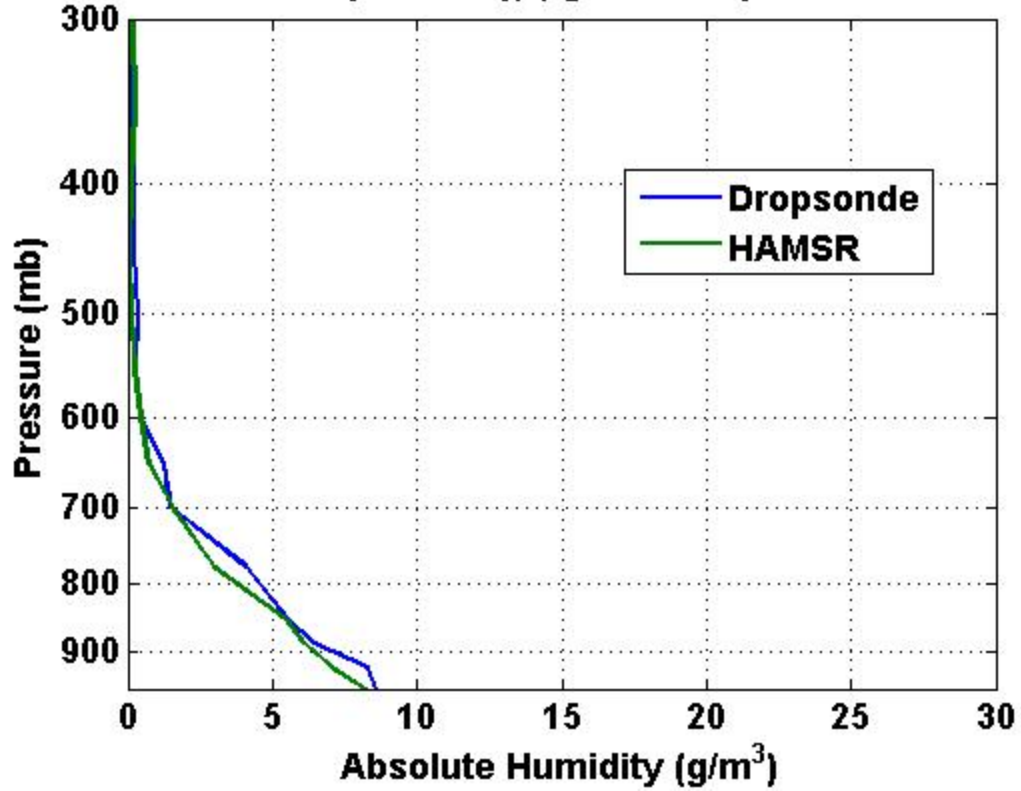


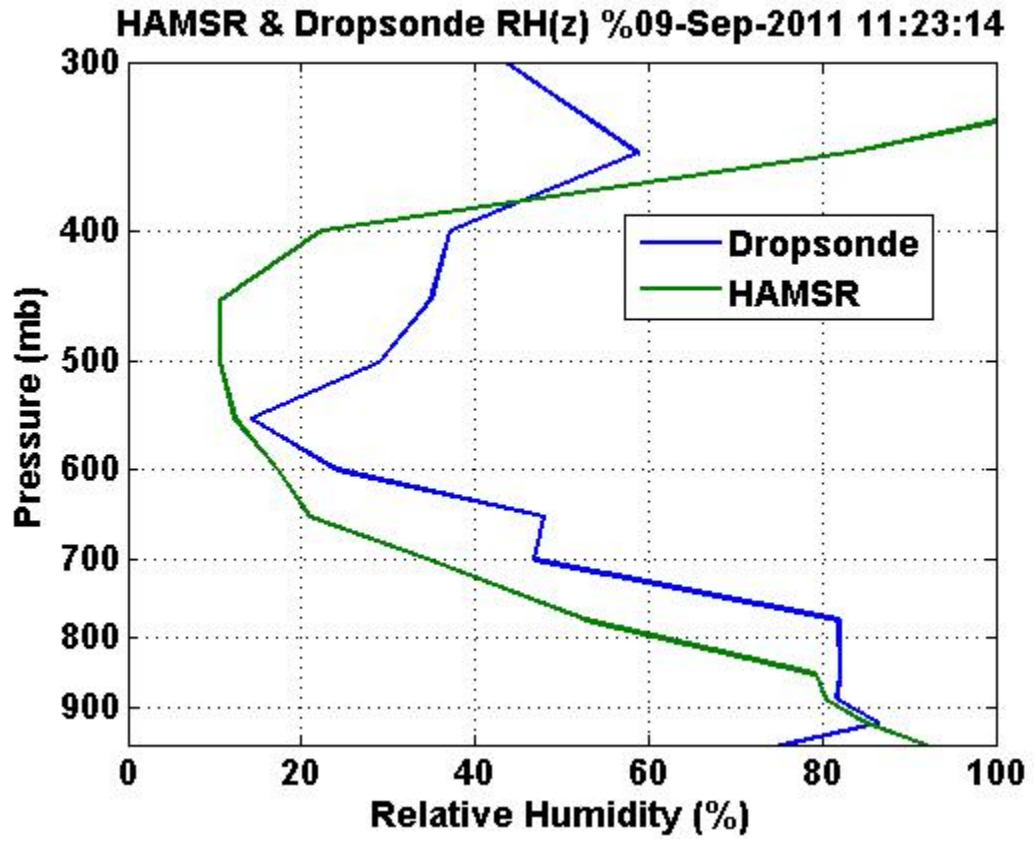
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HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 11:23:14

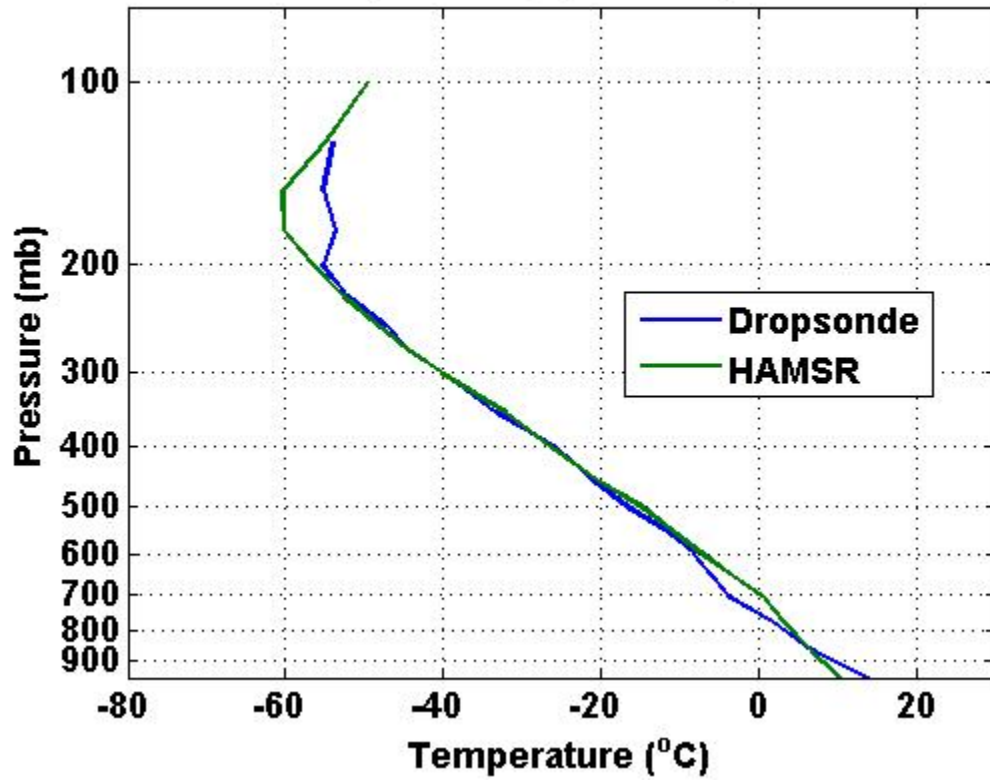




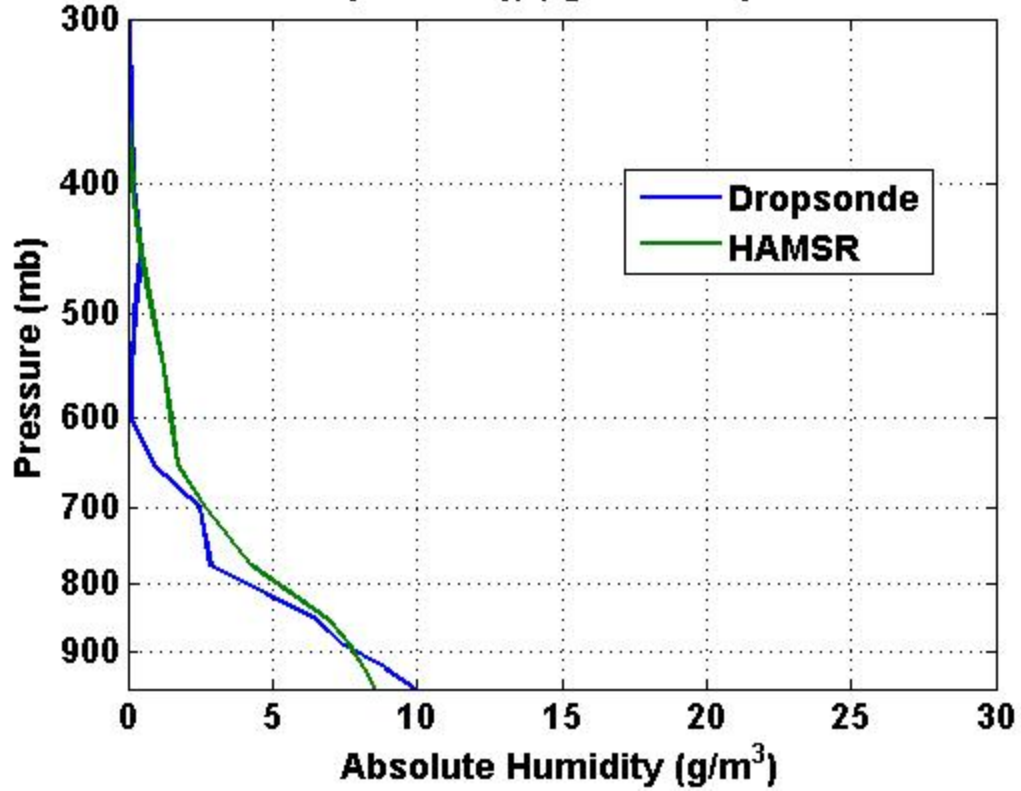
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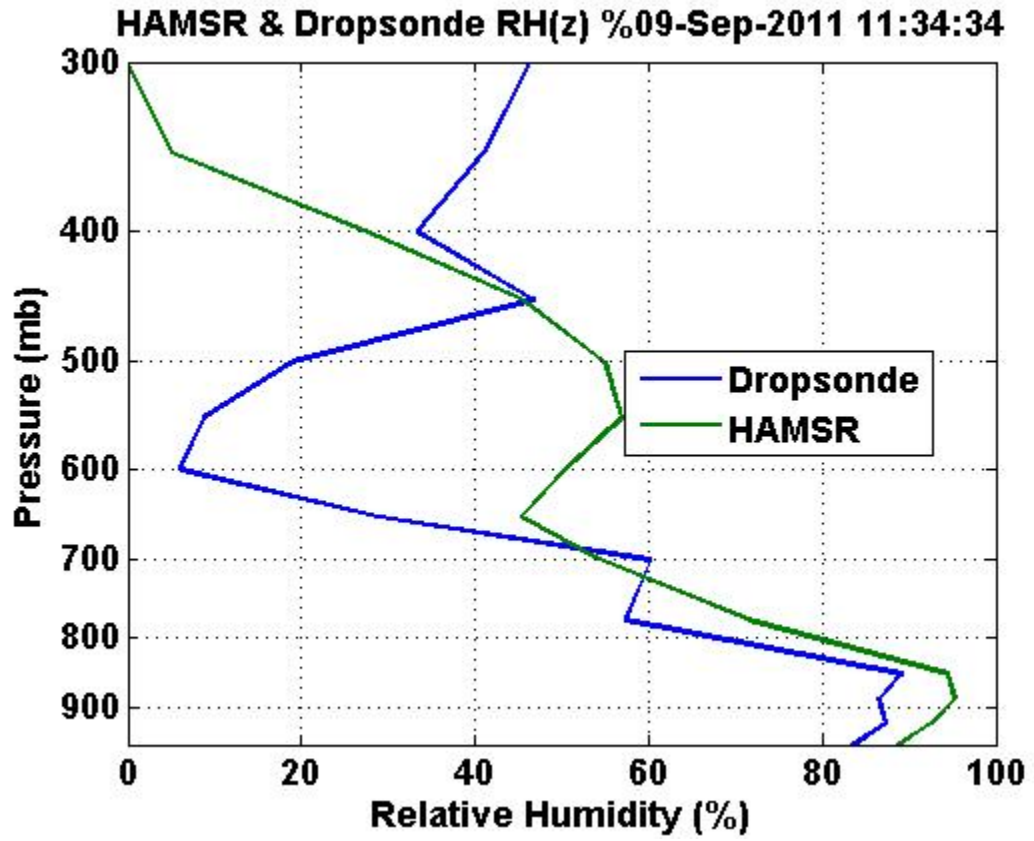


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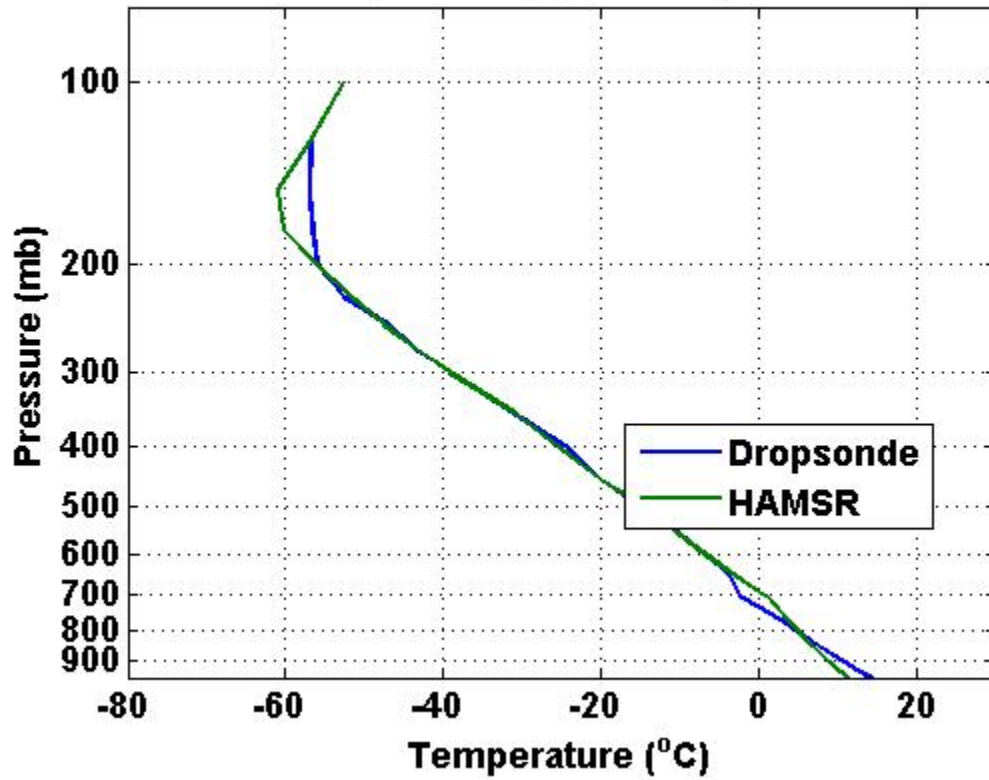
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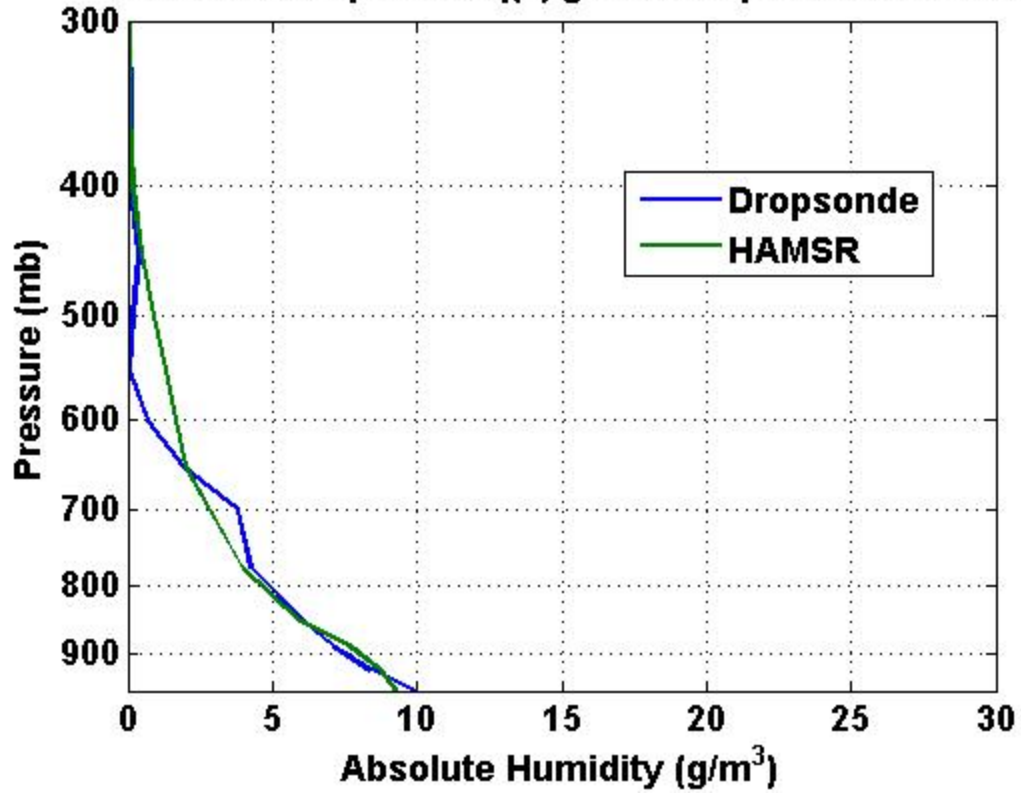


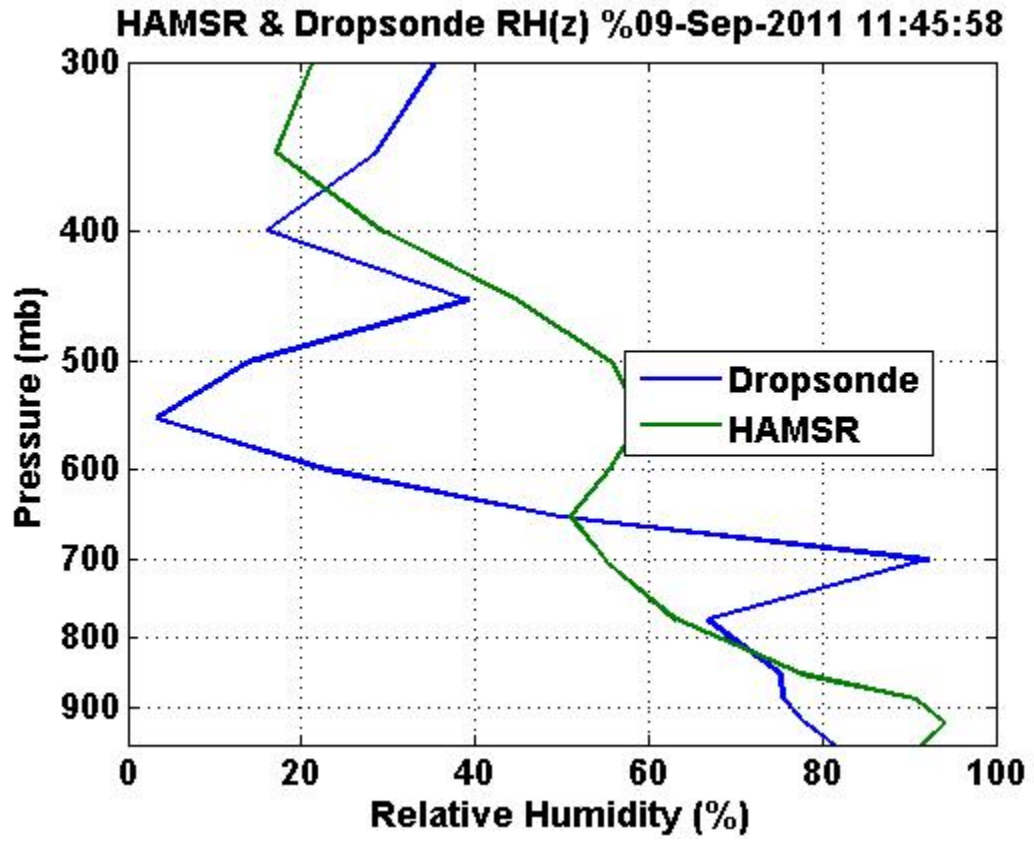
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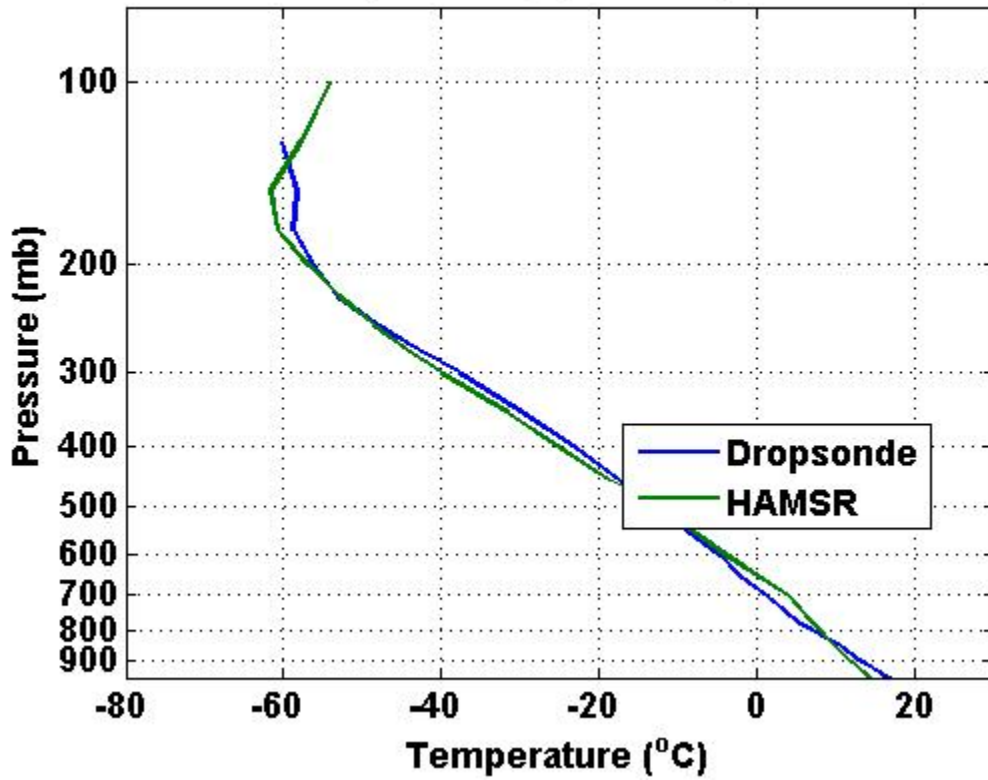
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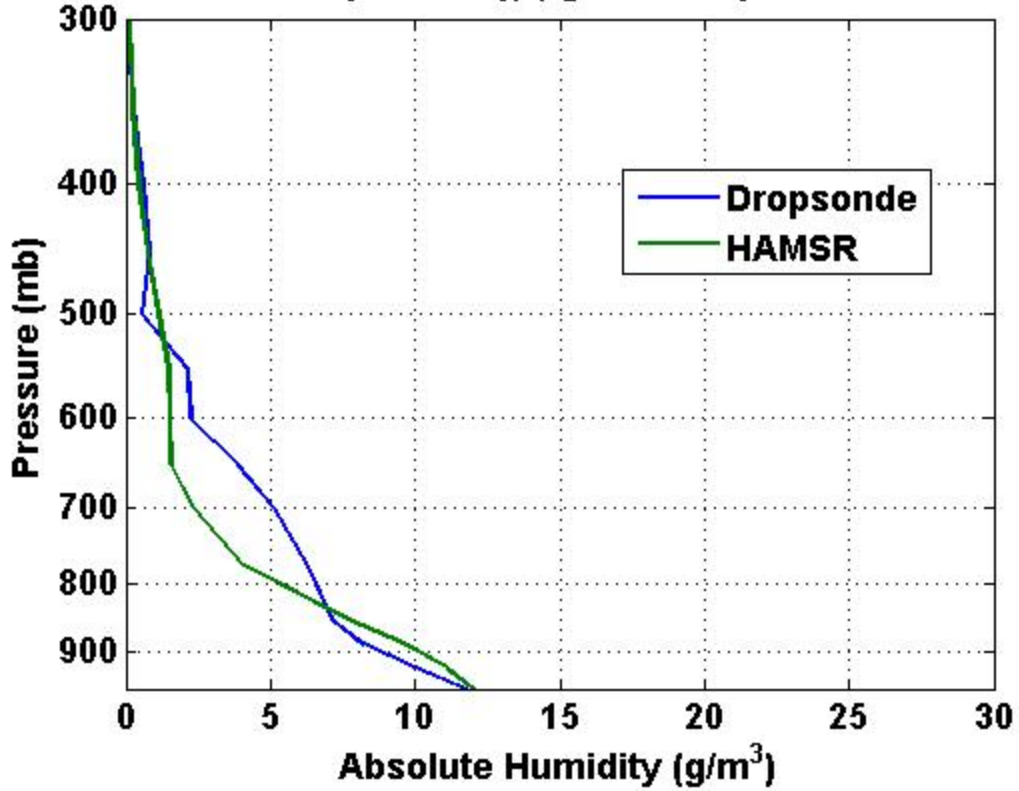


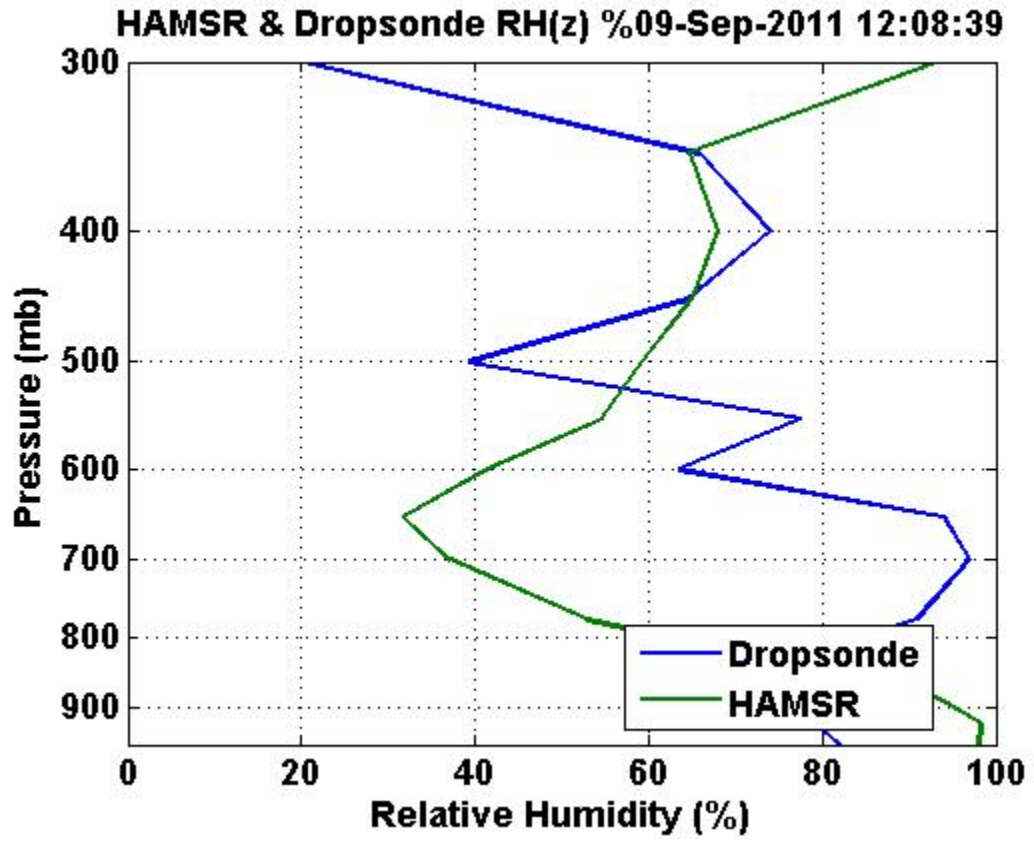
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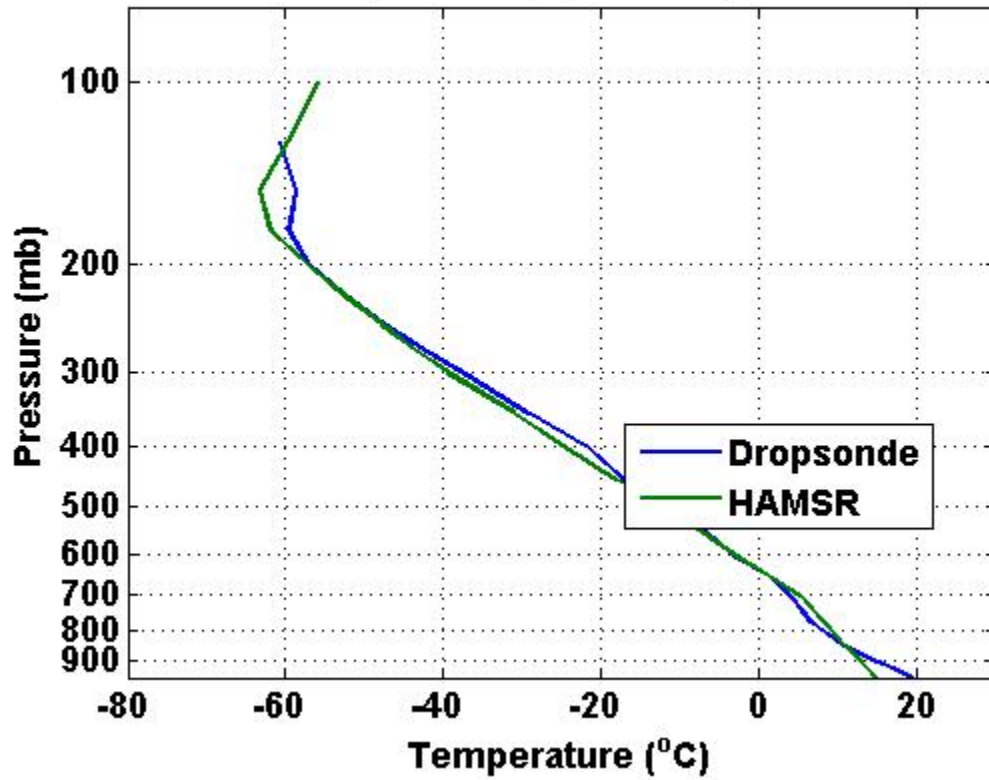
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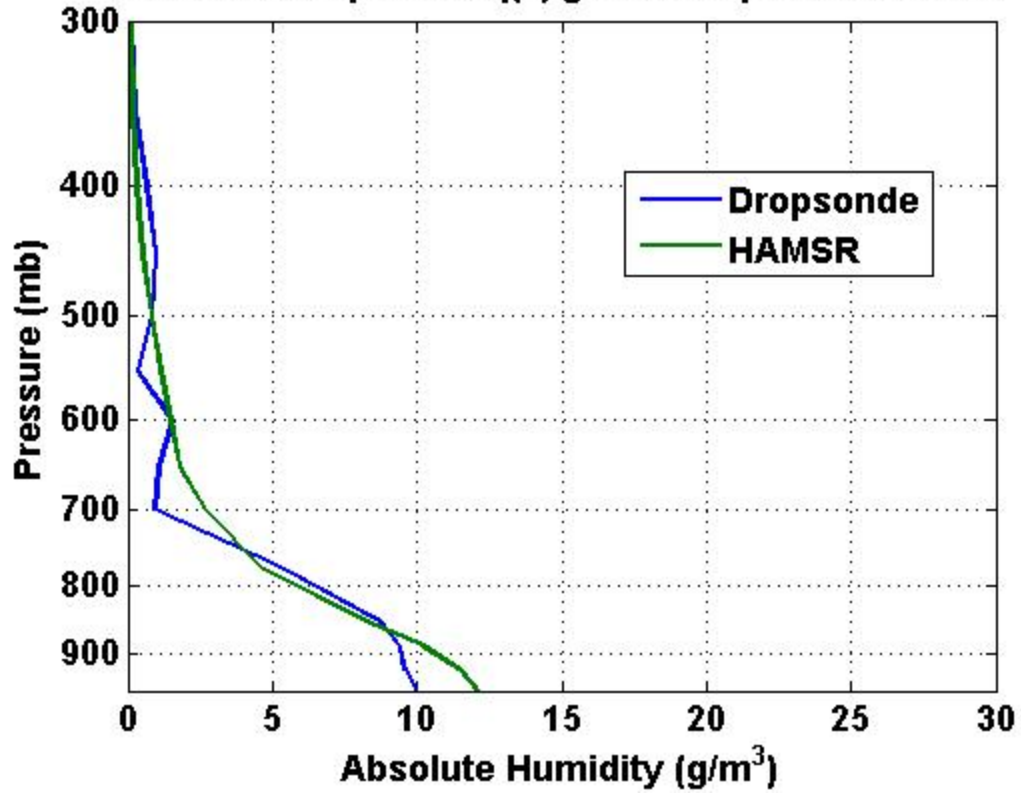


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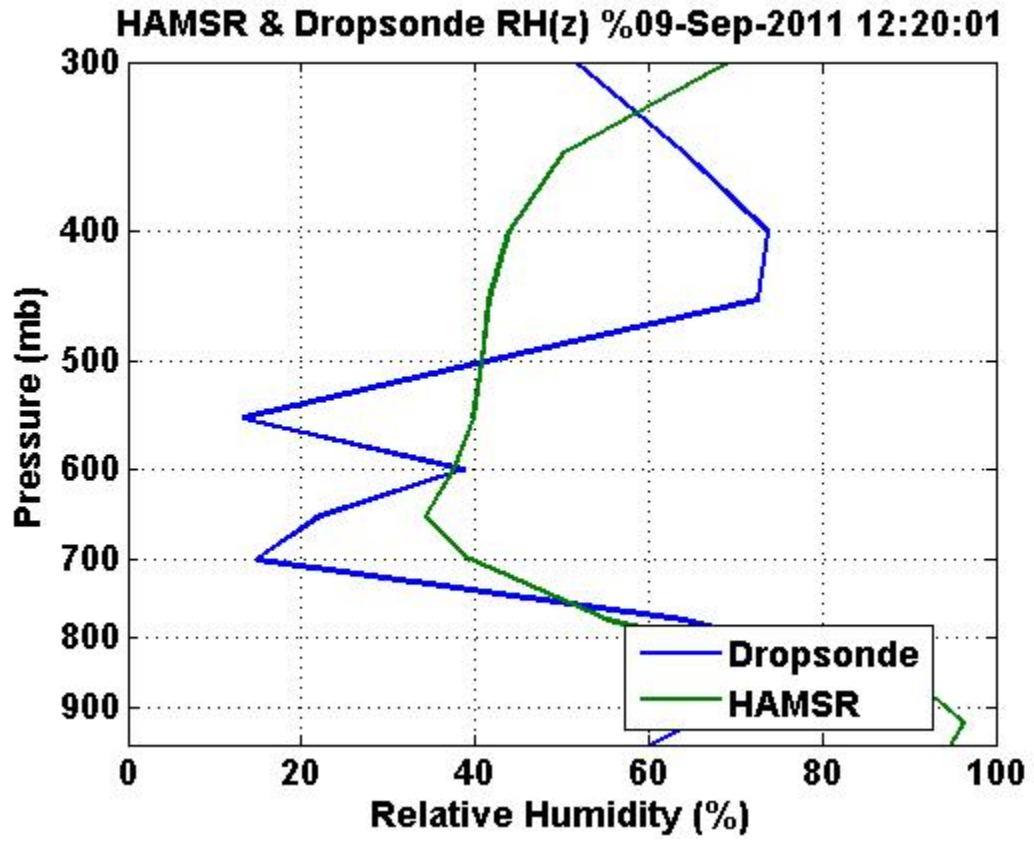
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HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 12:20:01

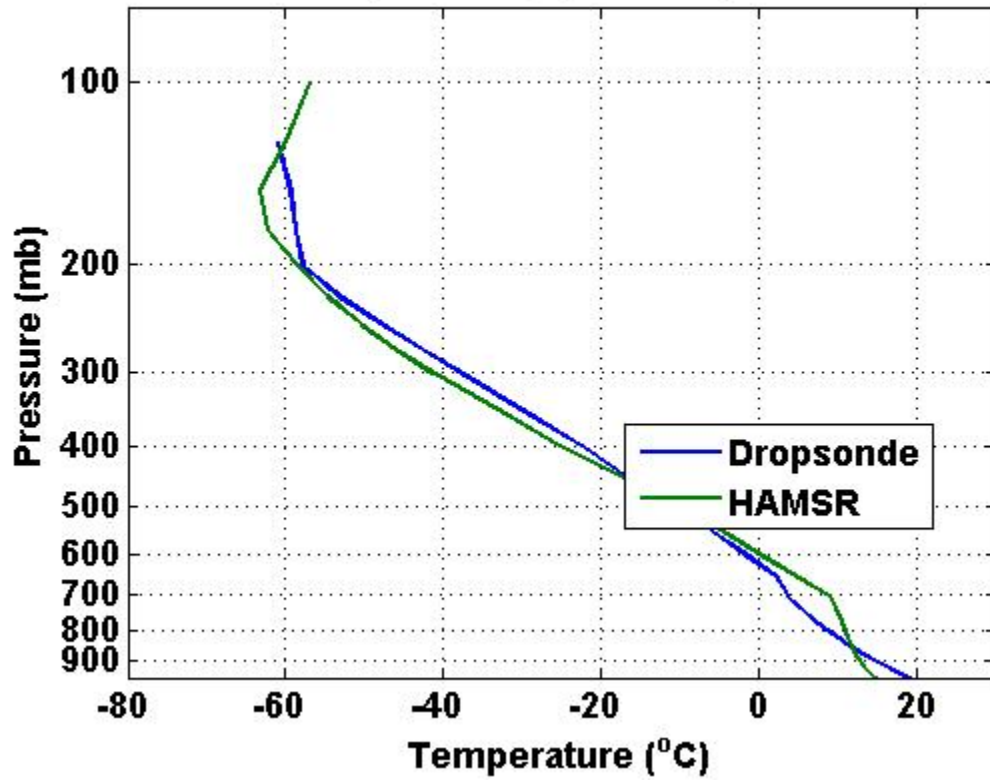




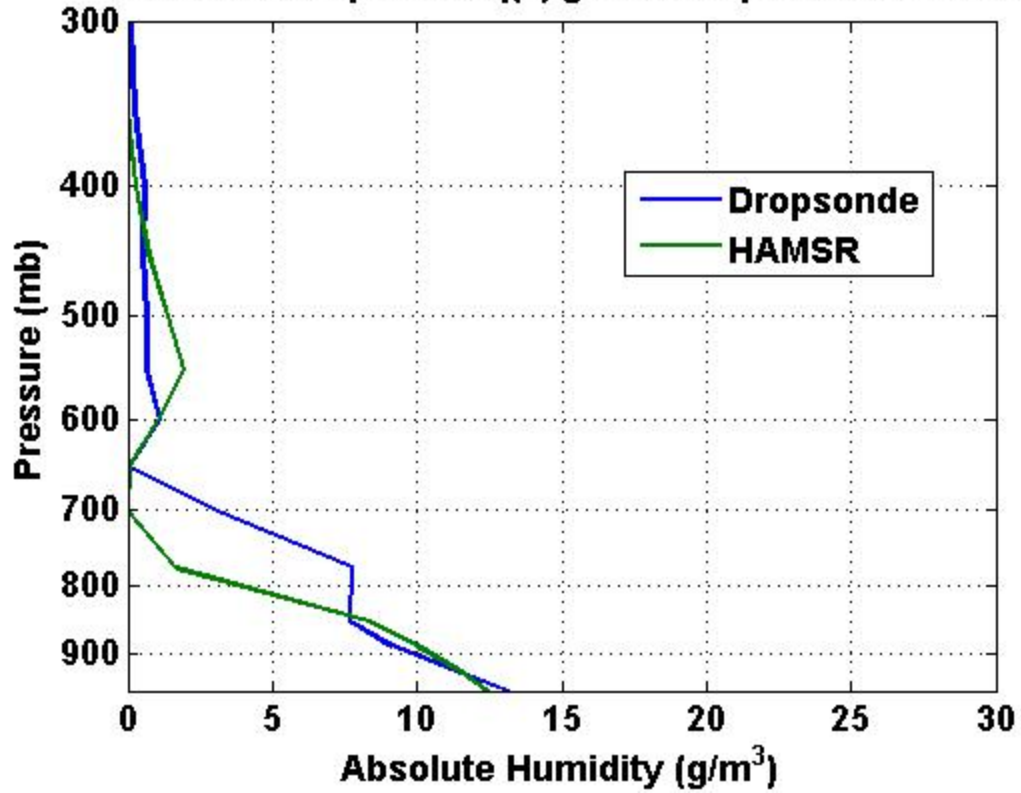


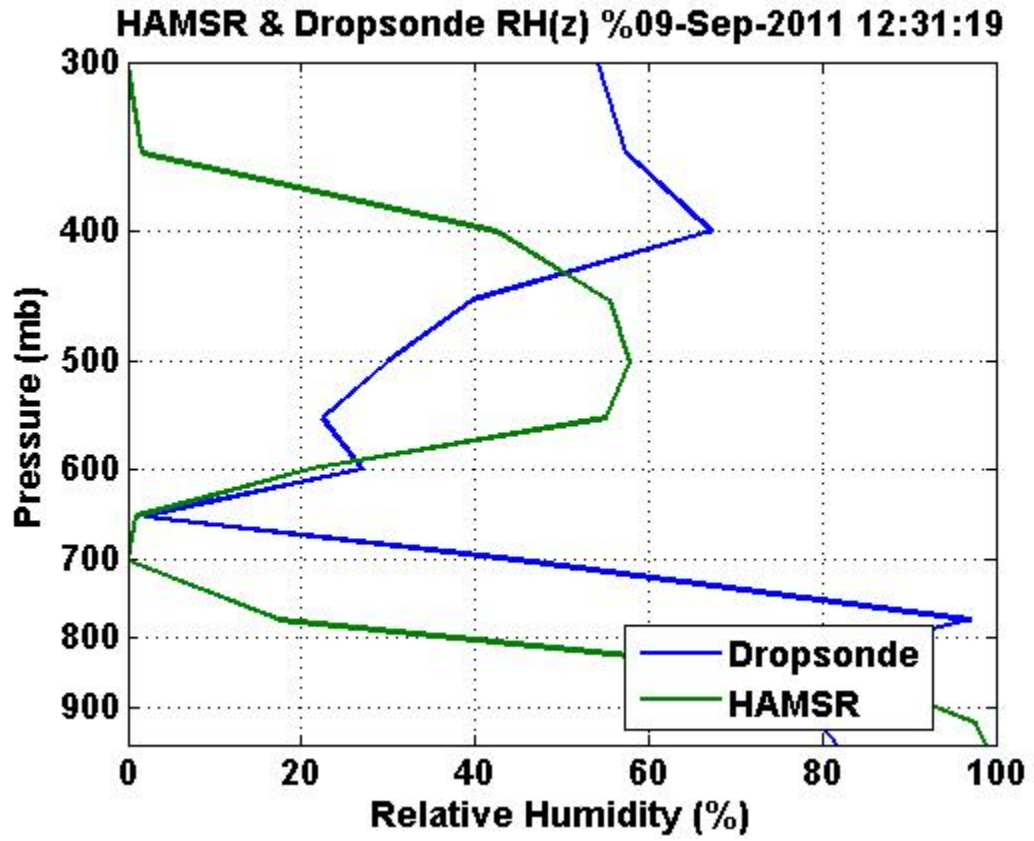
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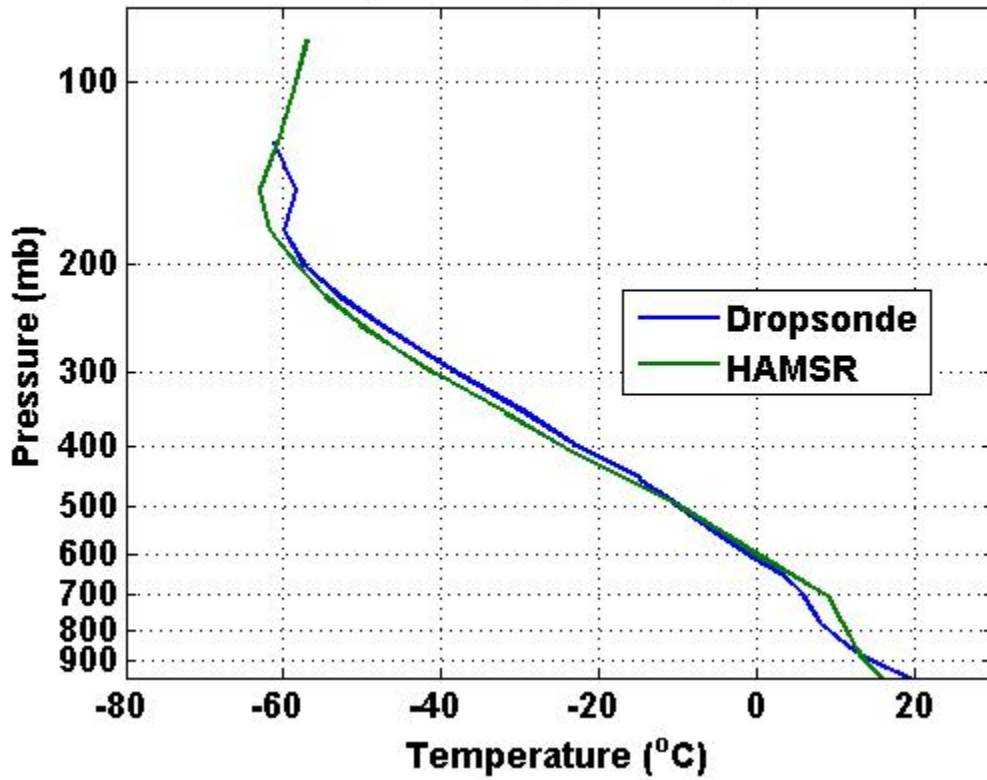
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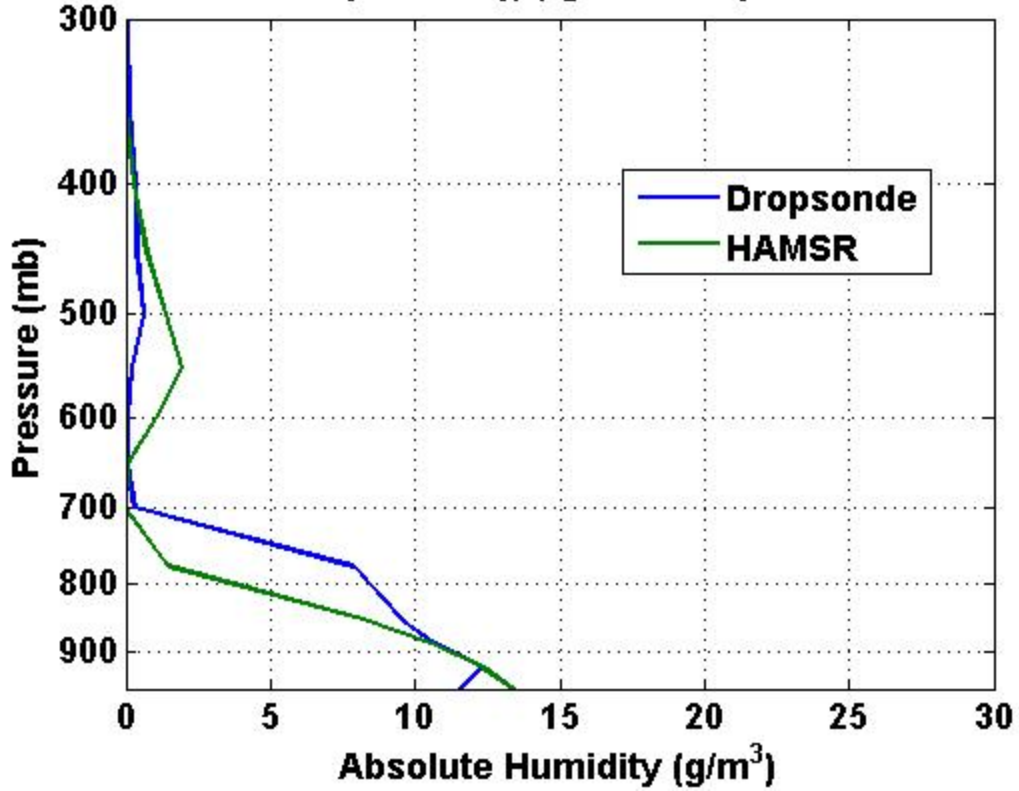


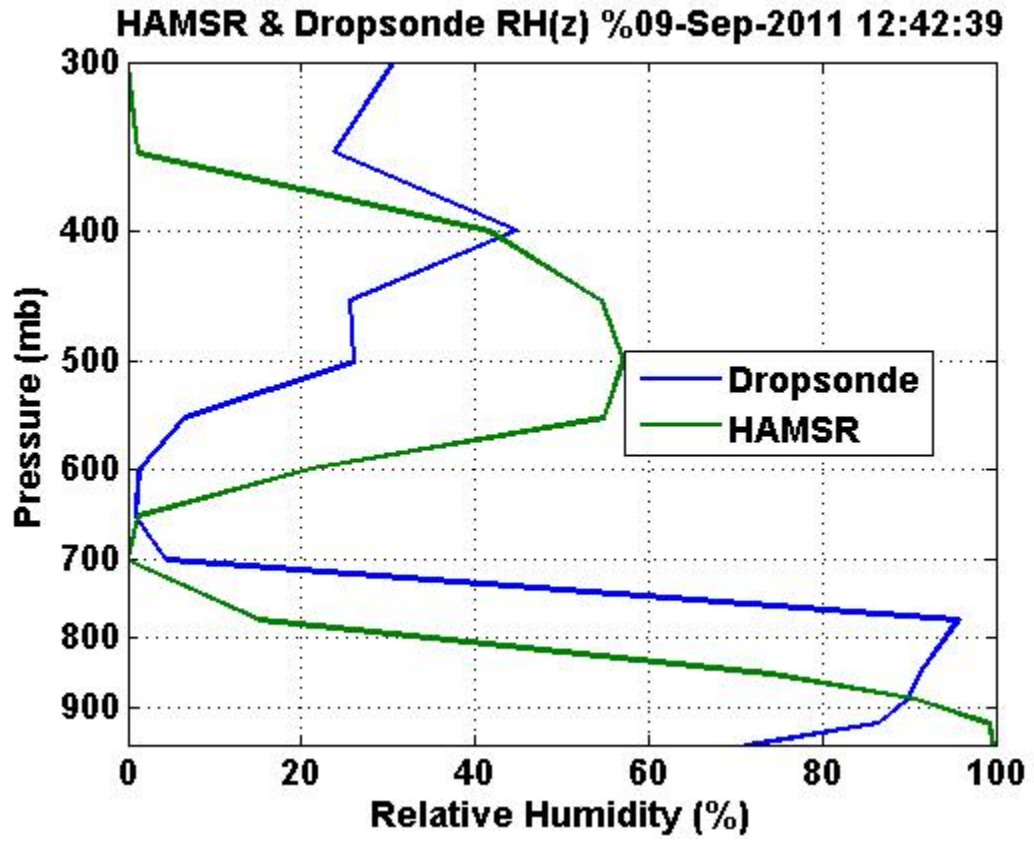
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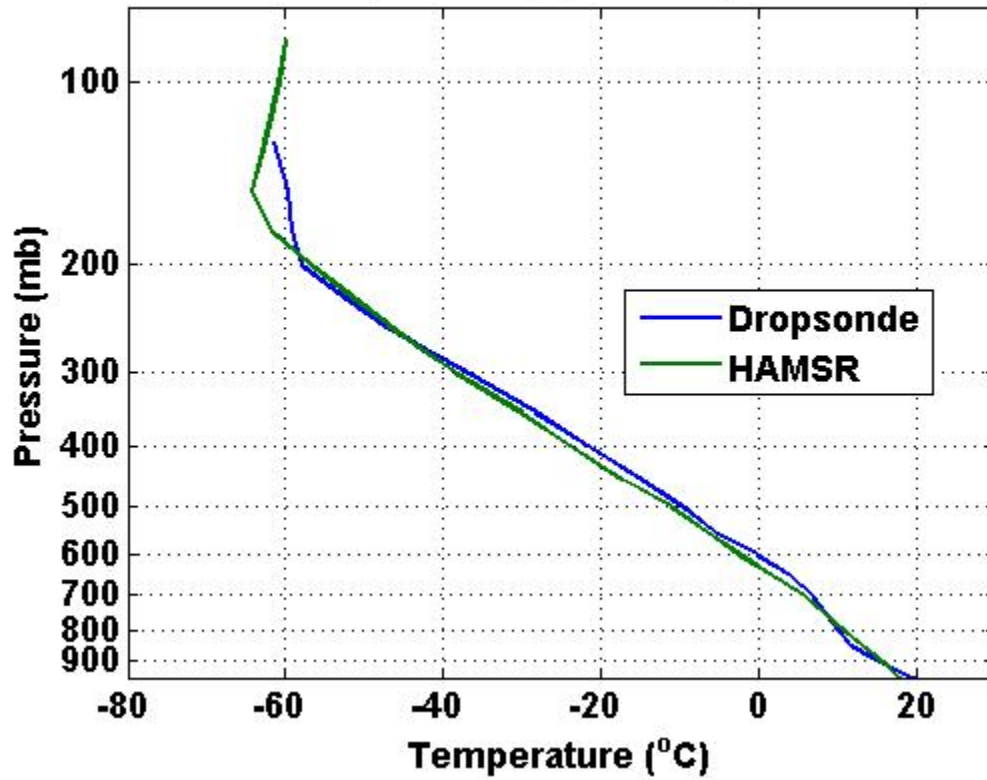
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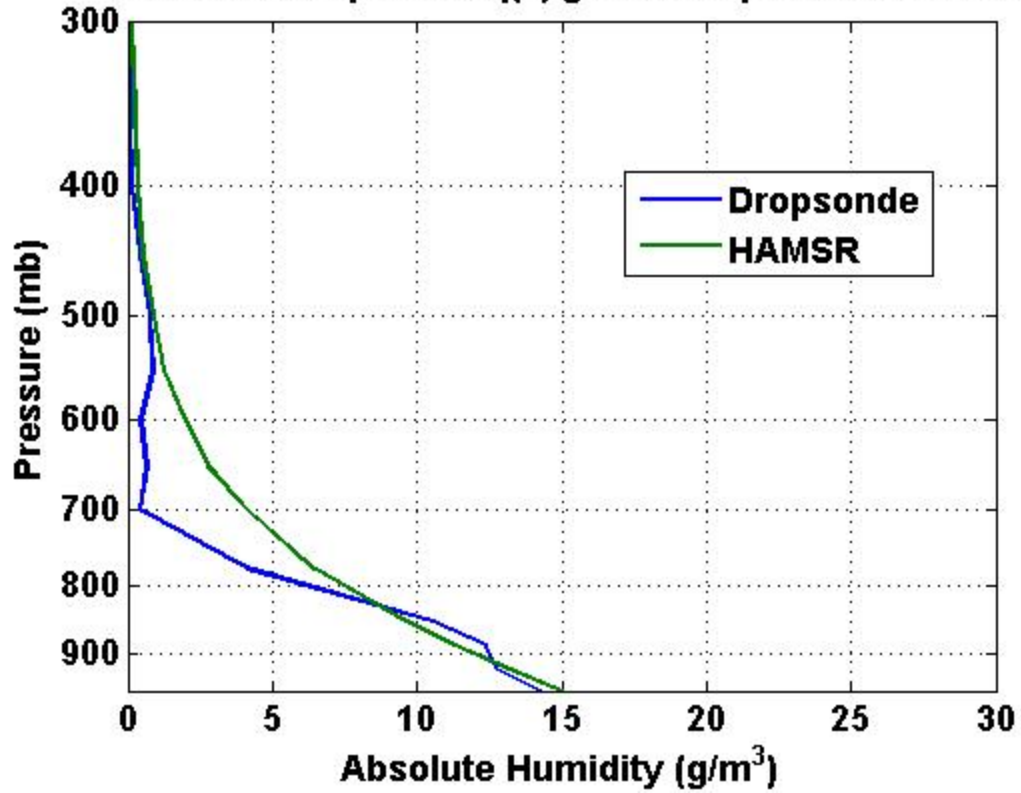


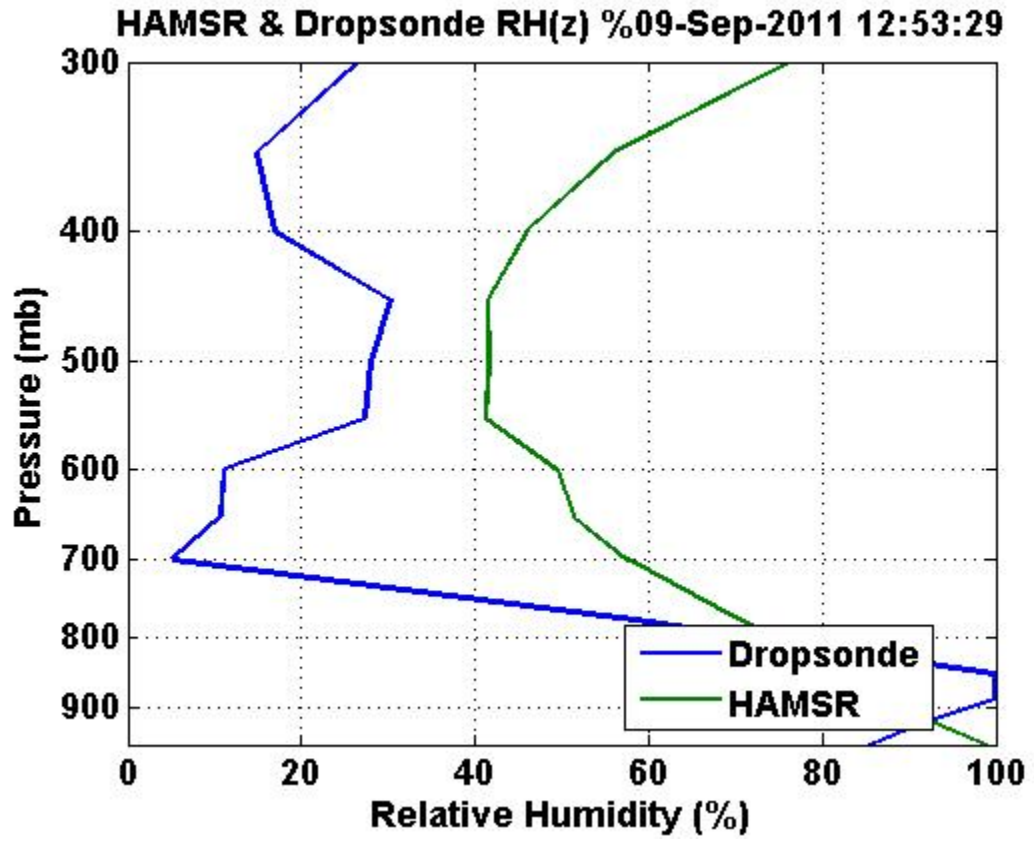
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HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 12:53:29

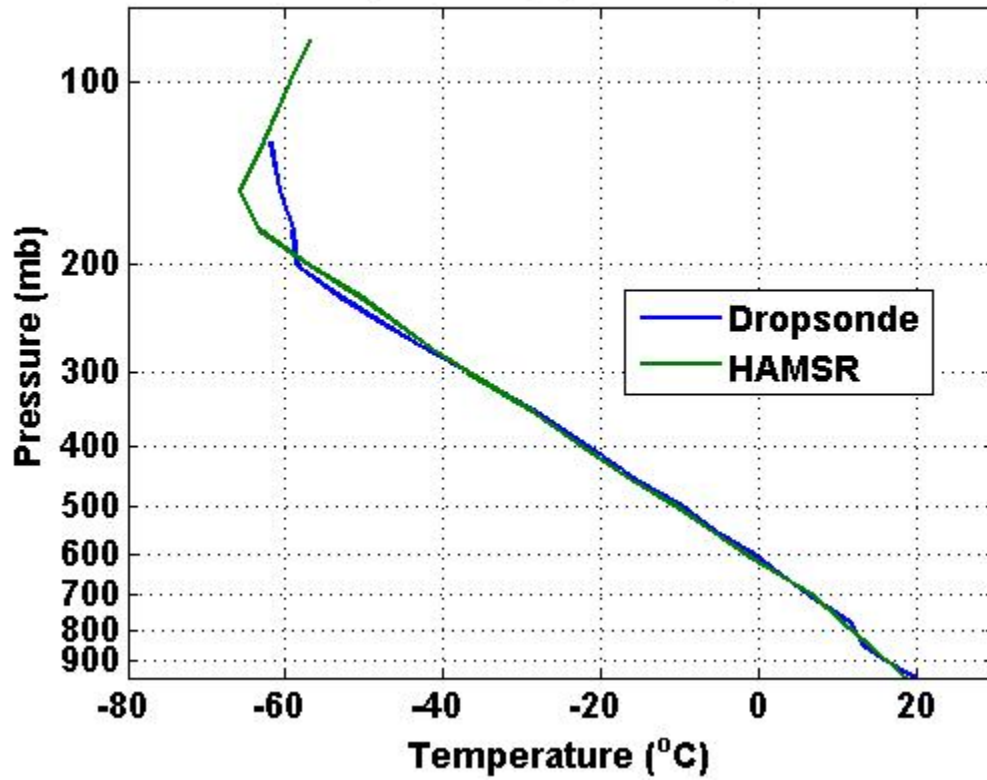




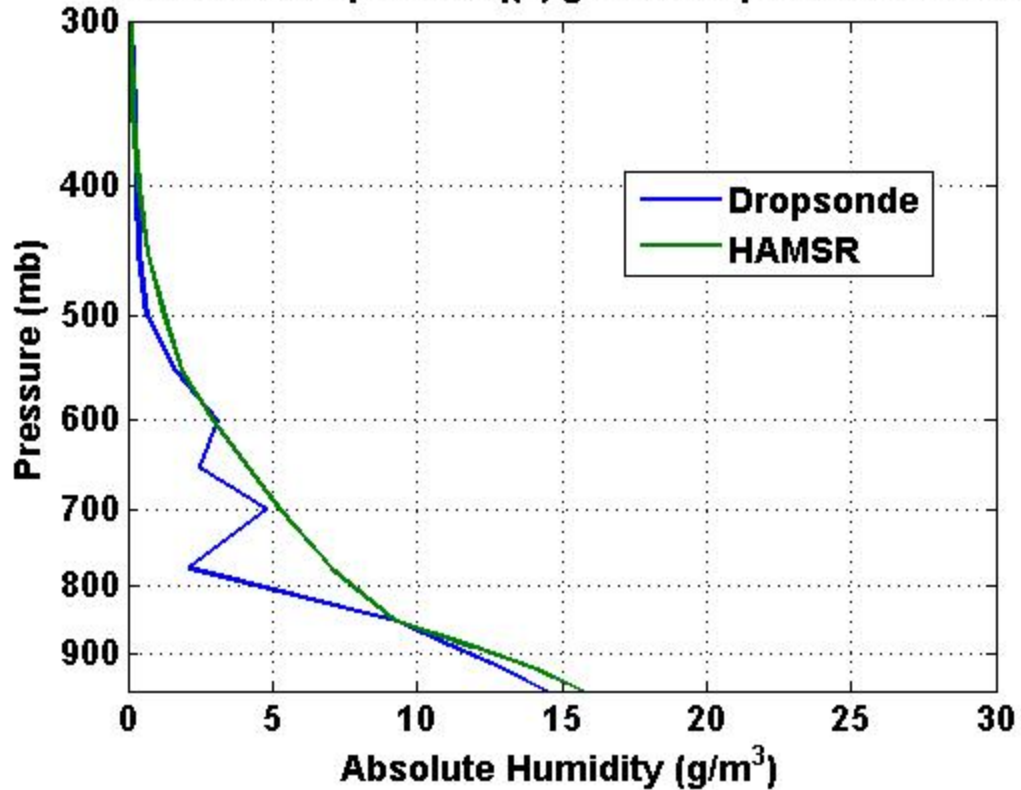
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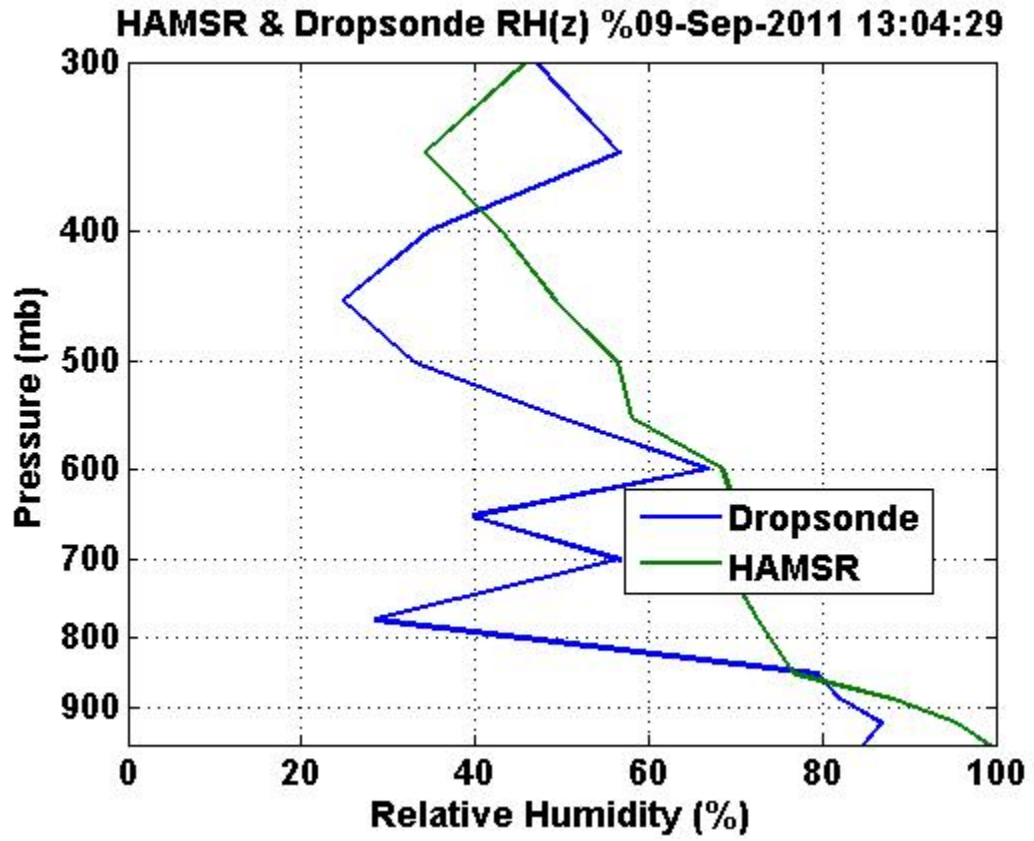


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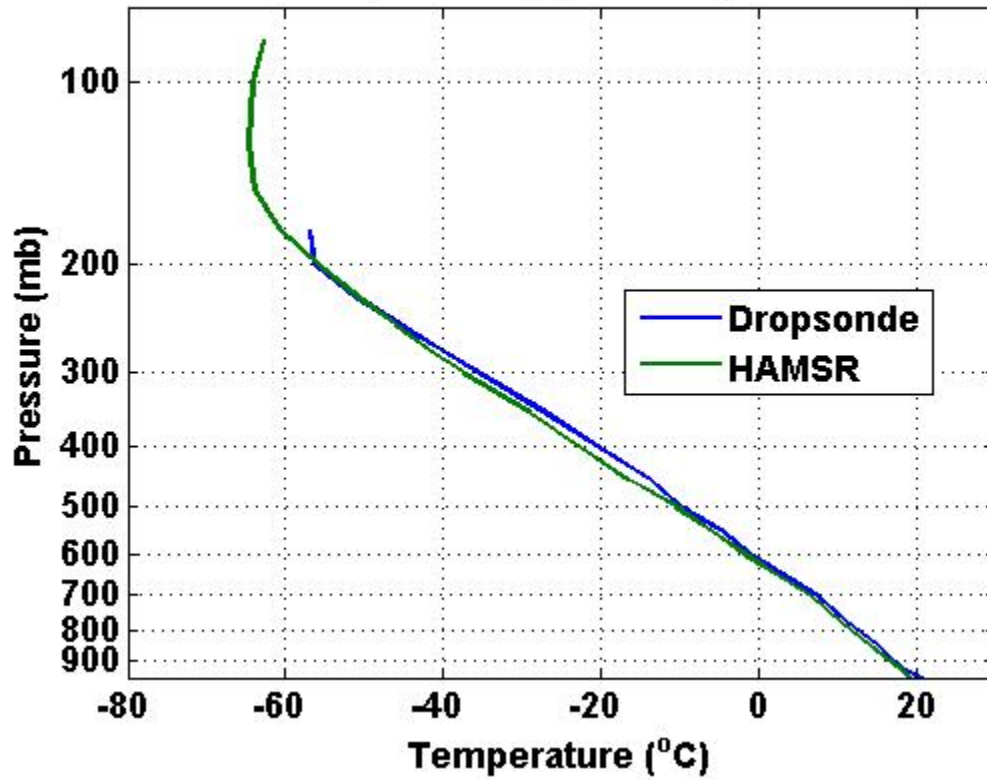
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 13:04:29



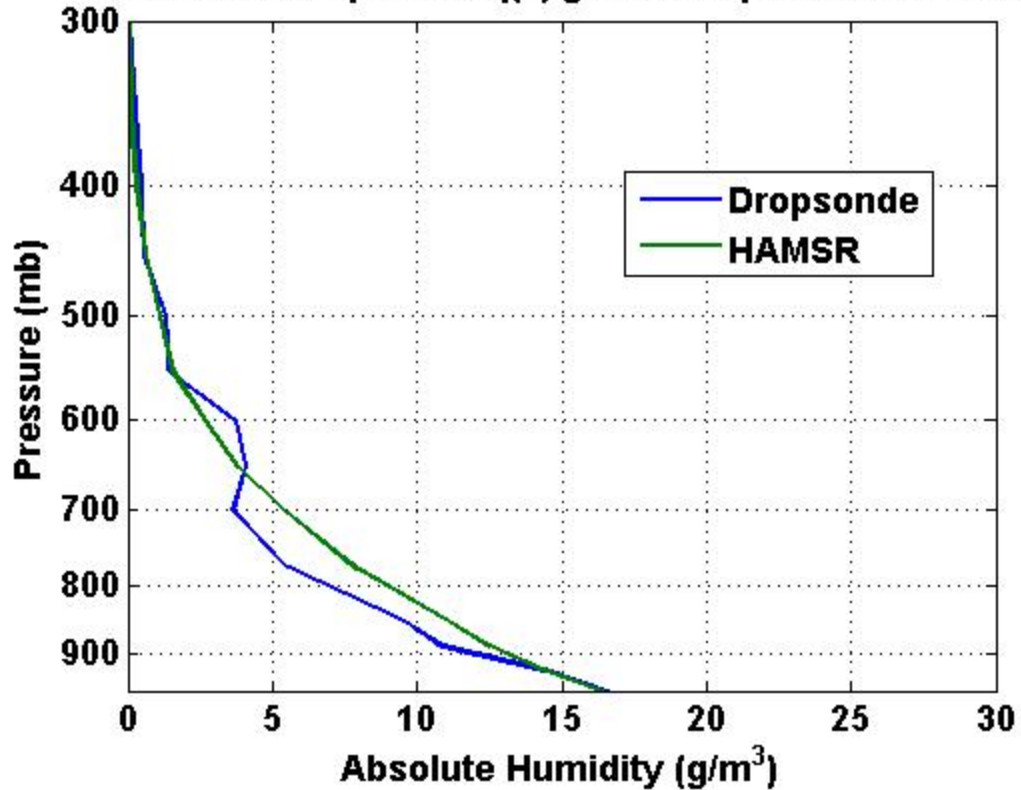


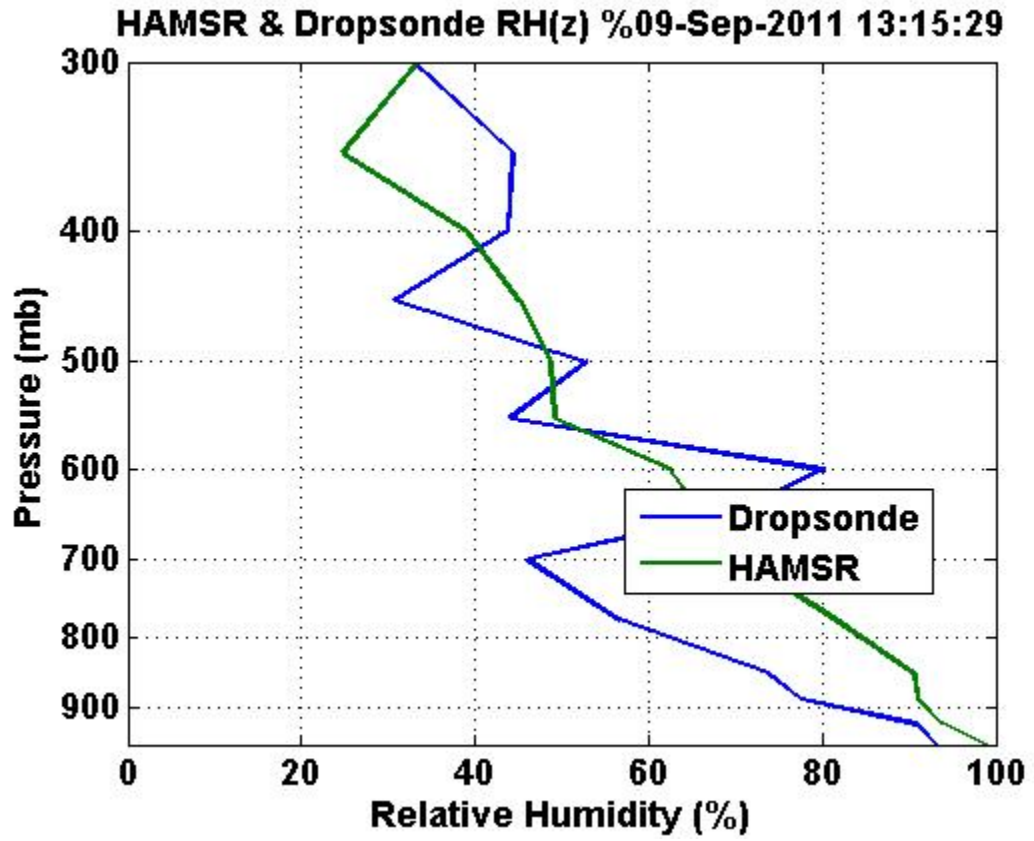
09-Sep-2011 13:15:29

HAMSR & Dropsonde T(z) °C 09-Sep-2011 13:15:29



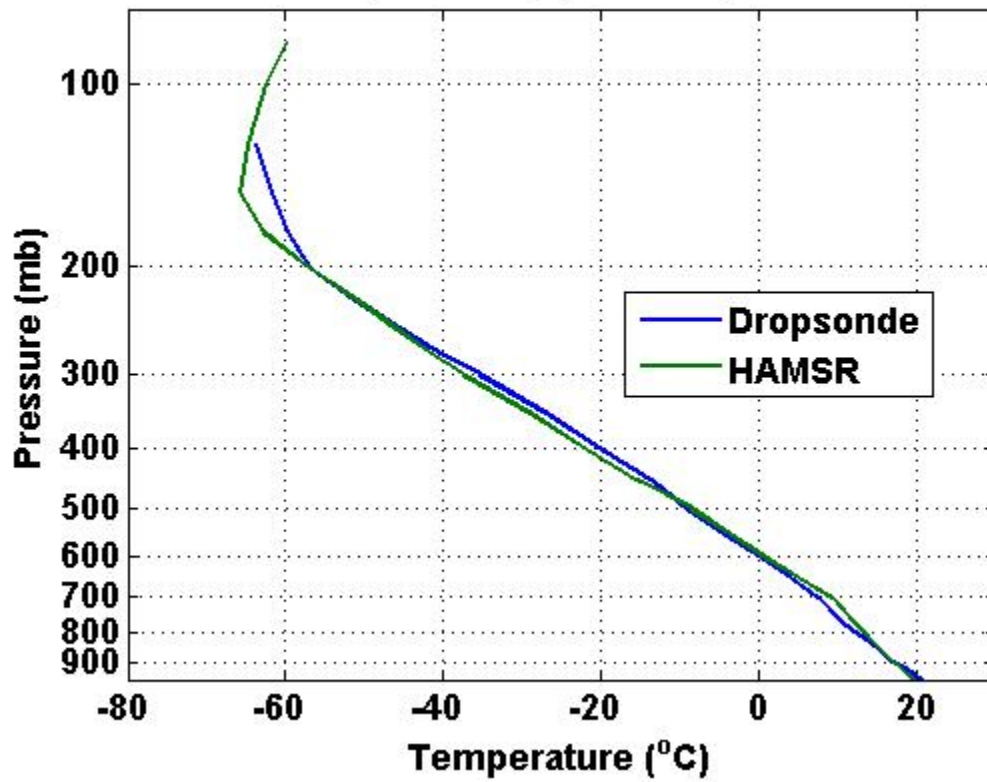
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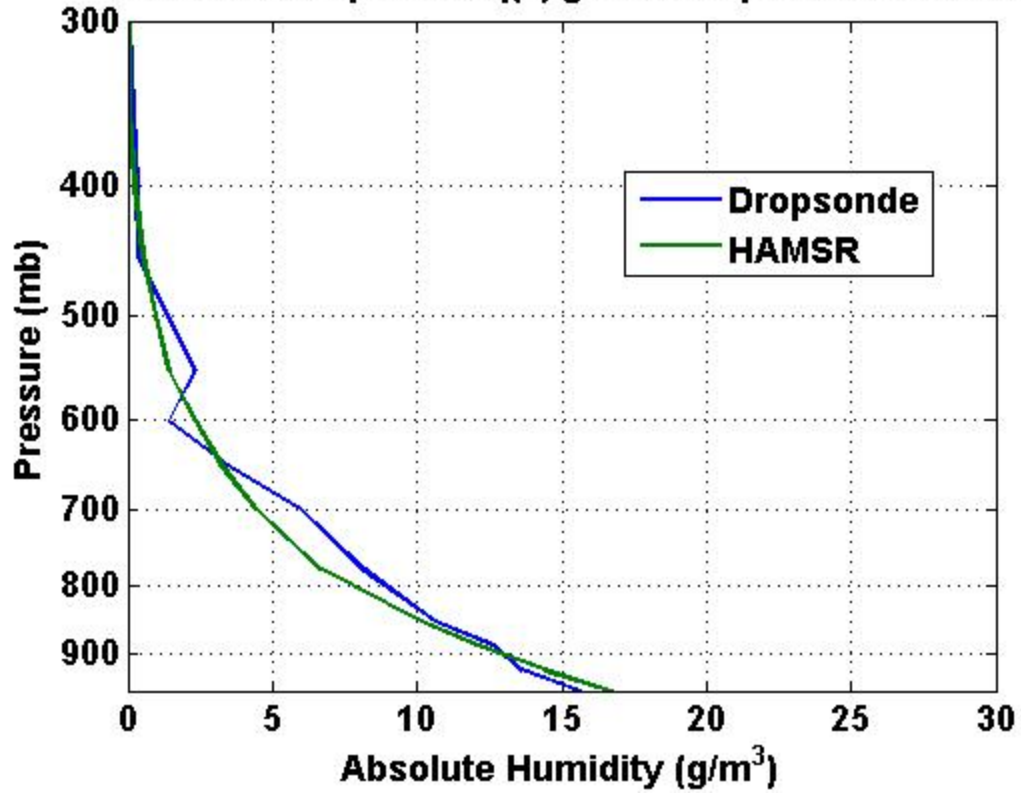


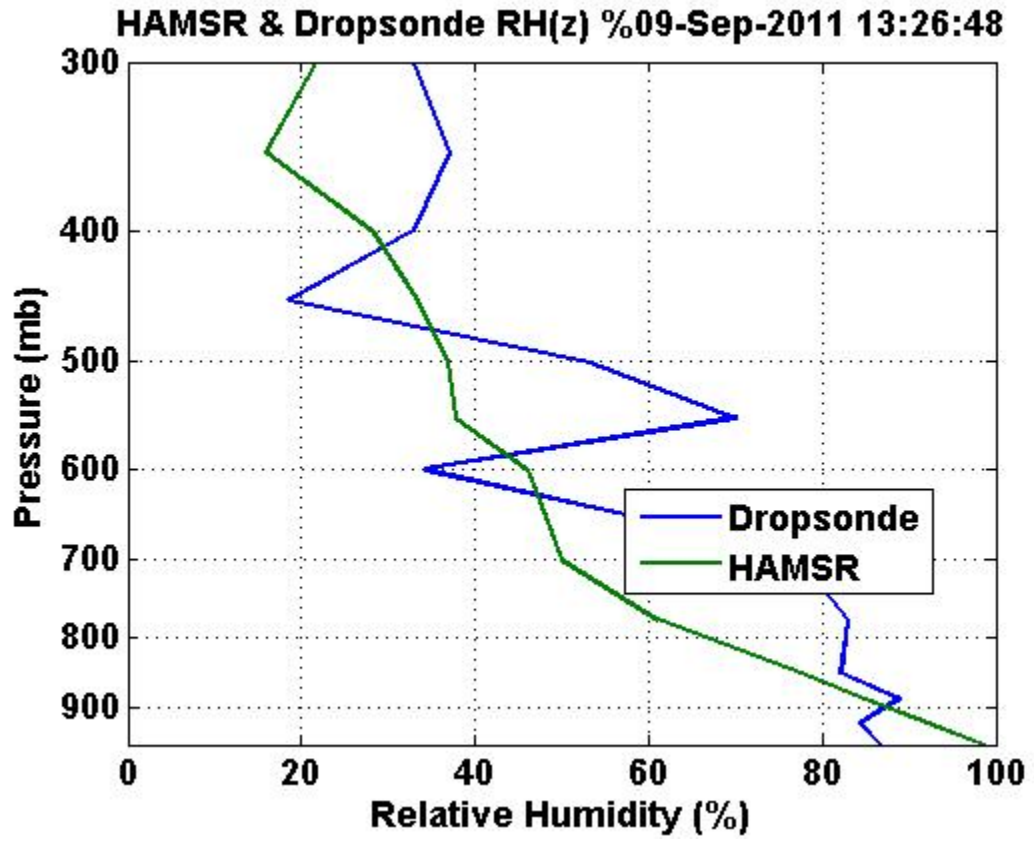
09-Sep-2011 13:26:48

HAMSR & Dropsonde T(z) °C 09-Sep-2011 13:26:48



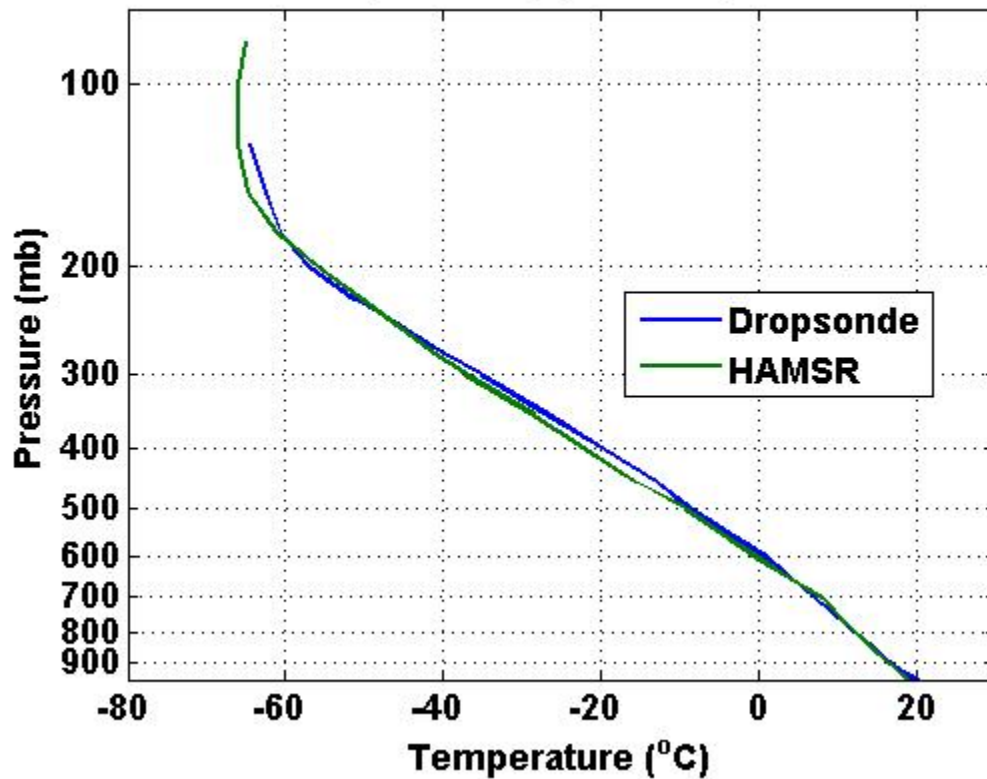
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 13:26:48



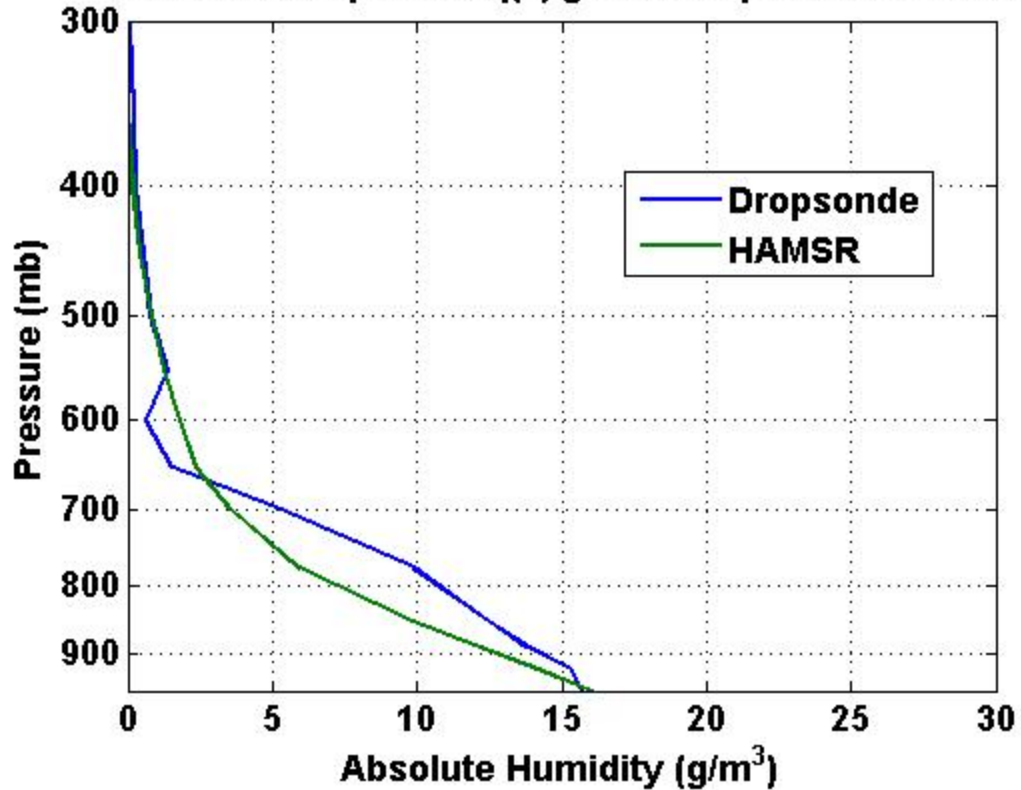


09-Sep-2011 13:31:58

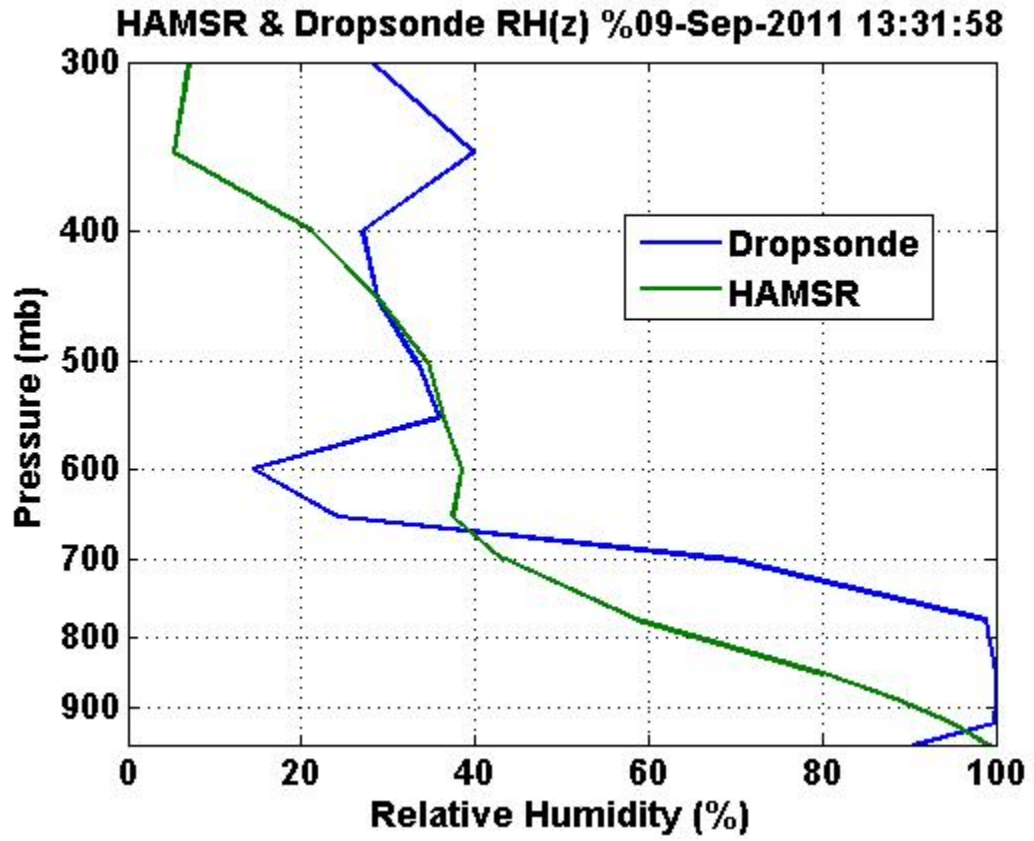
HAMSR & Dropsonde T(z) °C 09-Sep-2011 13:31:58



HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 13:31:58

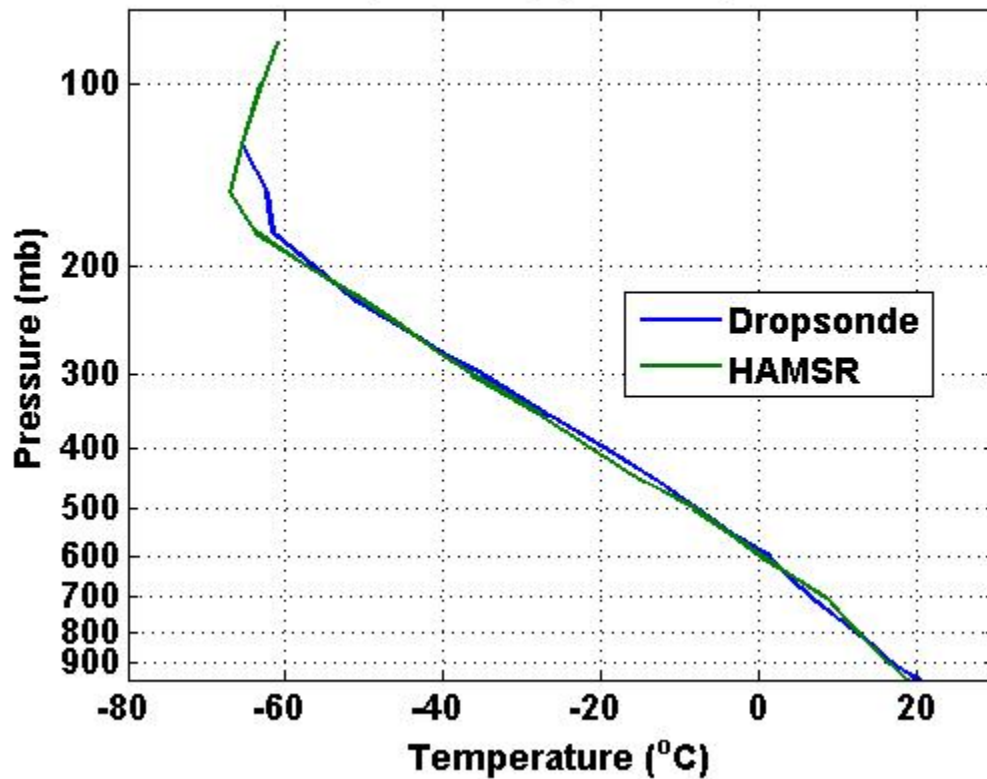




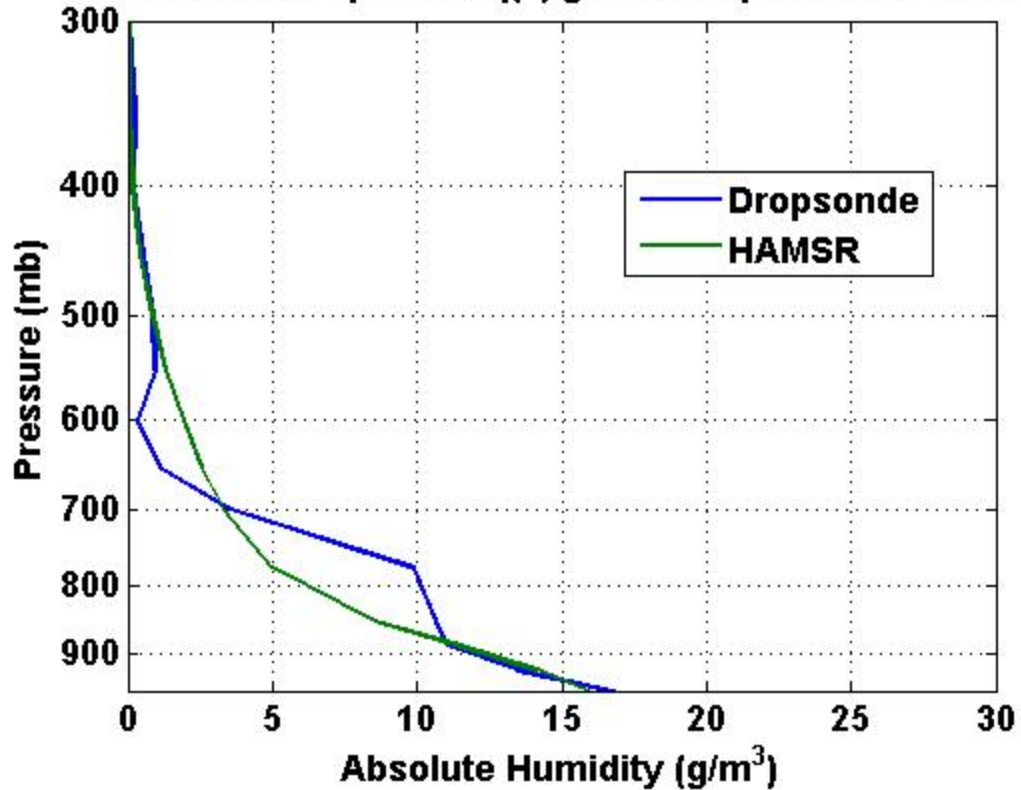


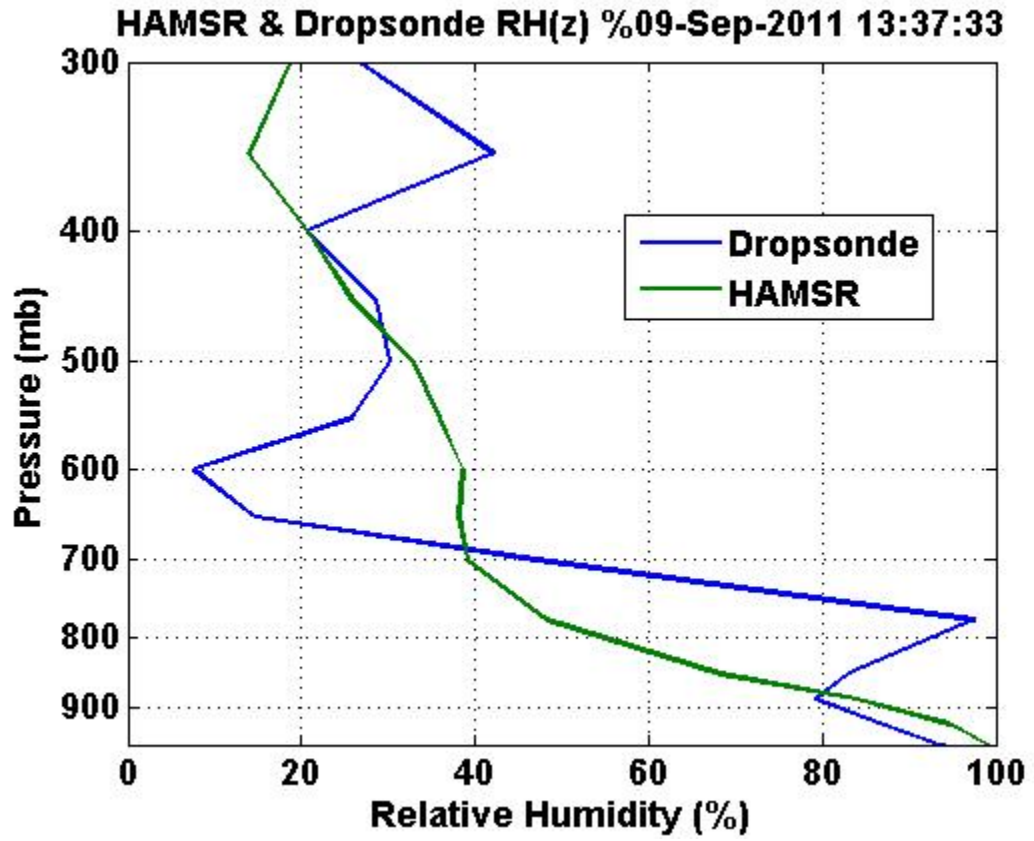
09-Sep-2011 13:37:33

HAMSR & Dropsonde T(z) °C 09-Sep-2011 13:37:33



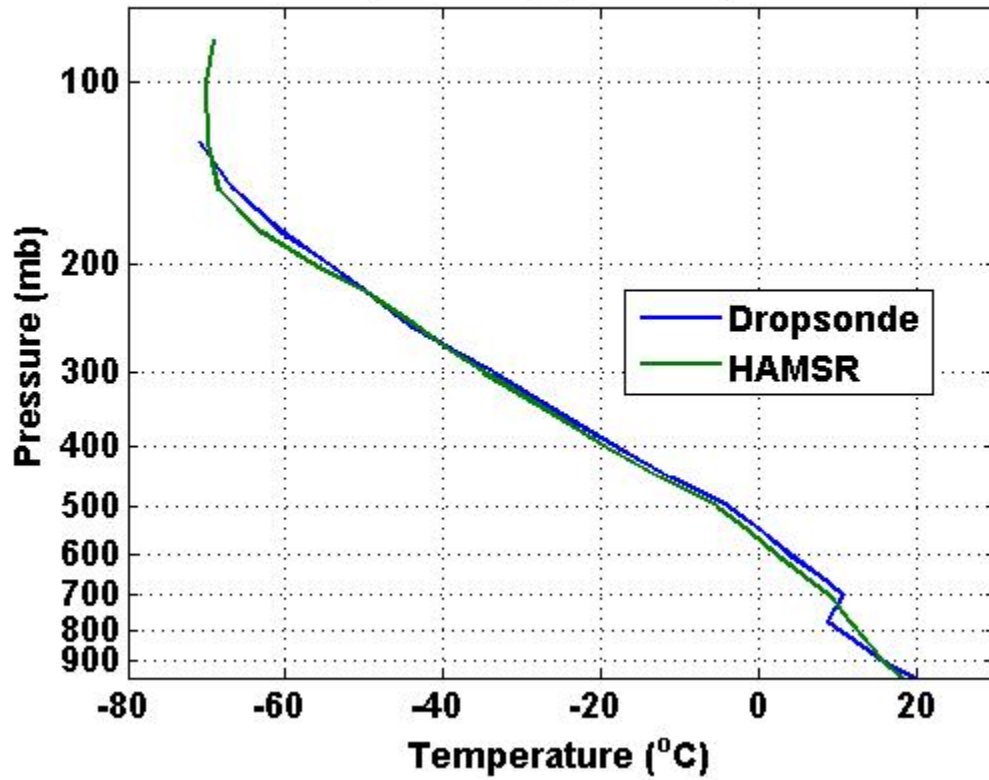
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 13:37:33



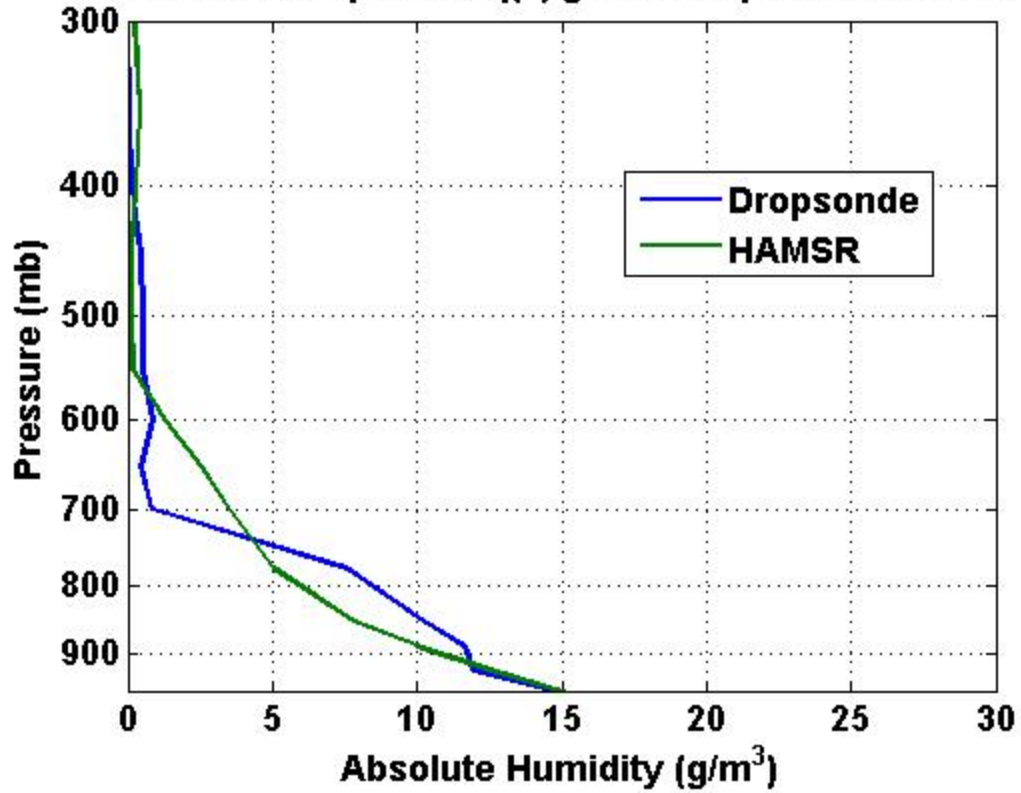


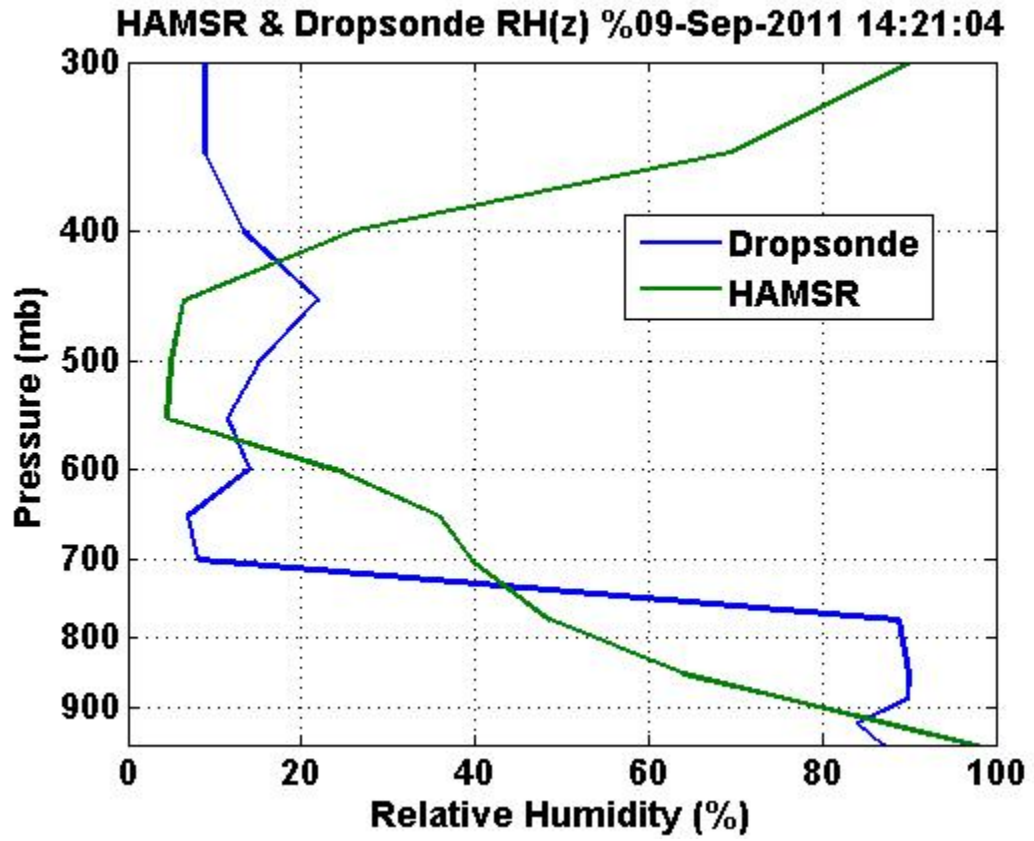
09-Sep-2011 14:21:04

HAMSR & Dropsonde T(z) °C 09-Sep-2011 14:21:04



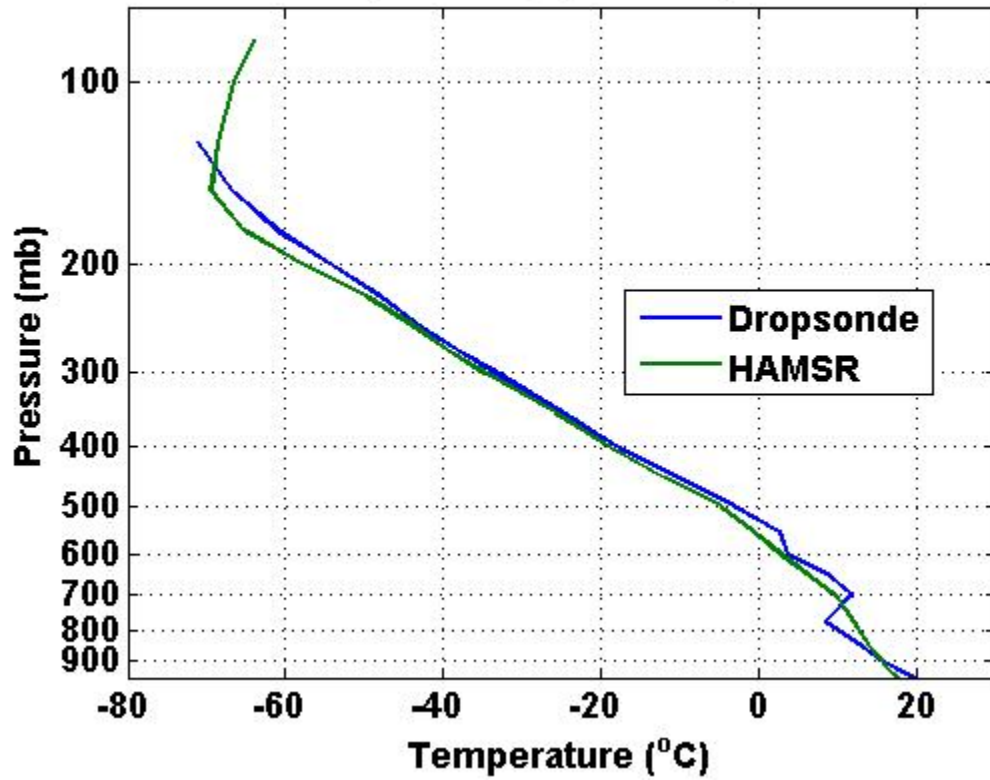
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 14:21:04



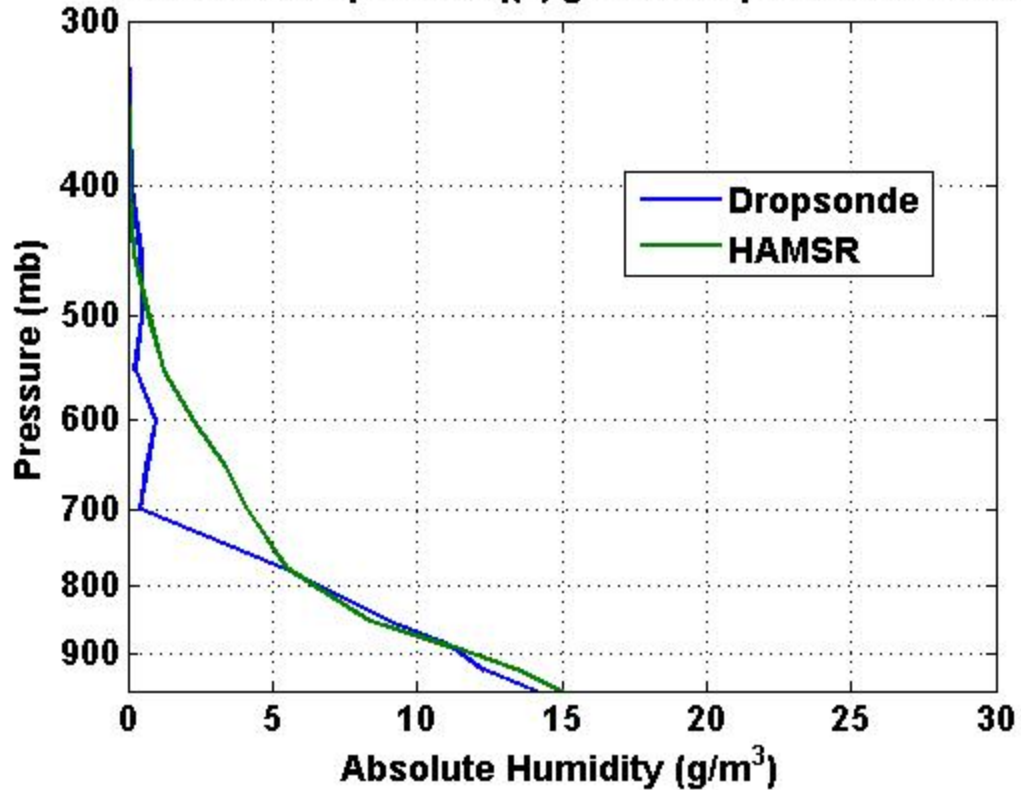


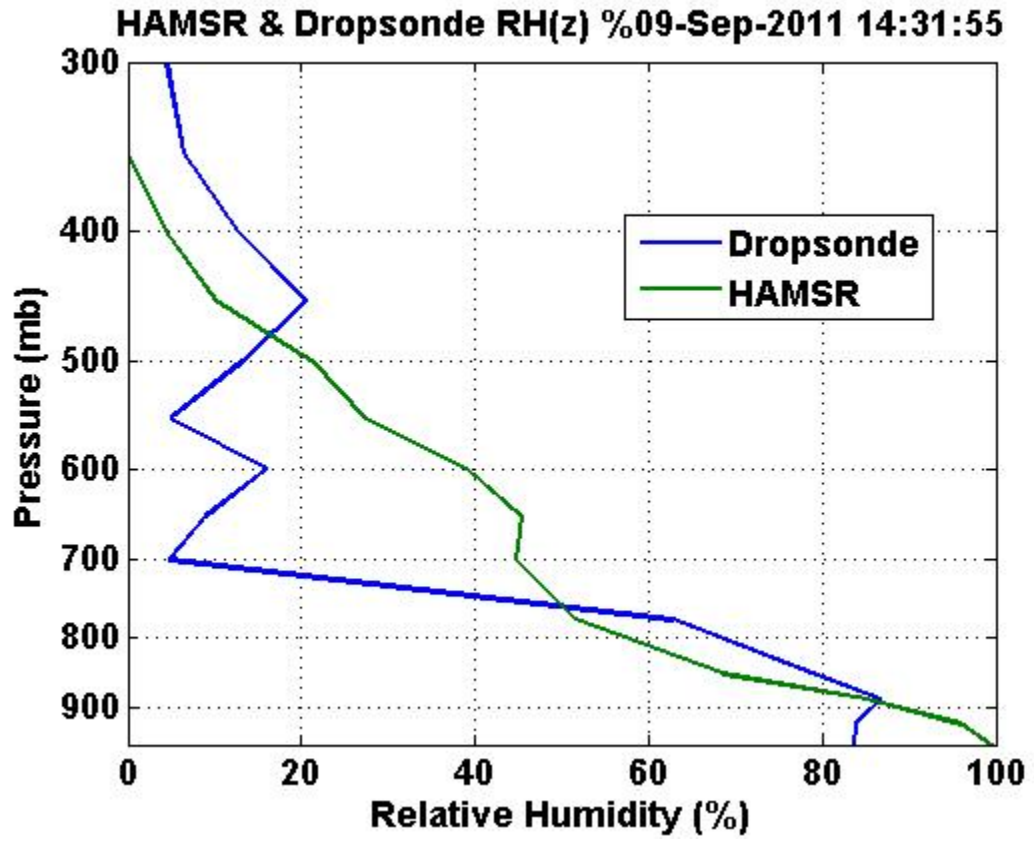
09-Sep-2011 14:31:55

HAMSR & Dropsonde T(z) °C 09-Sep-2011 14:31:55



HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 14:31:55

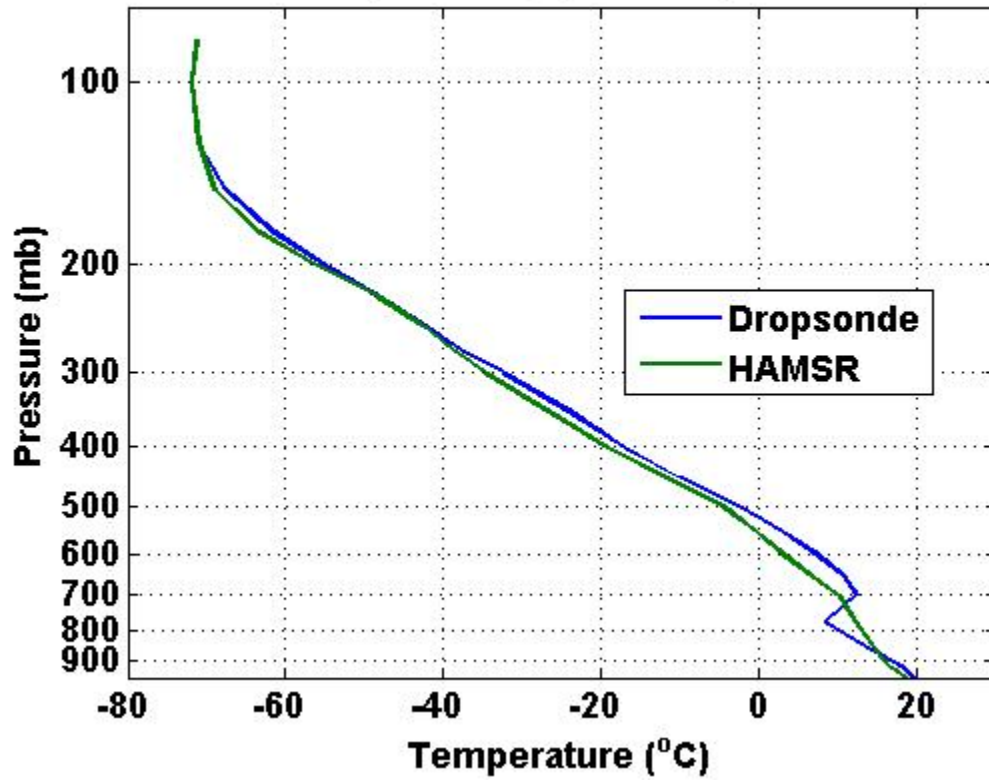




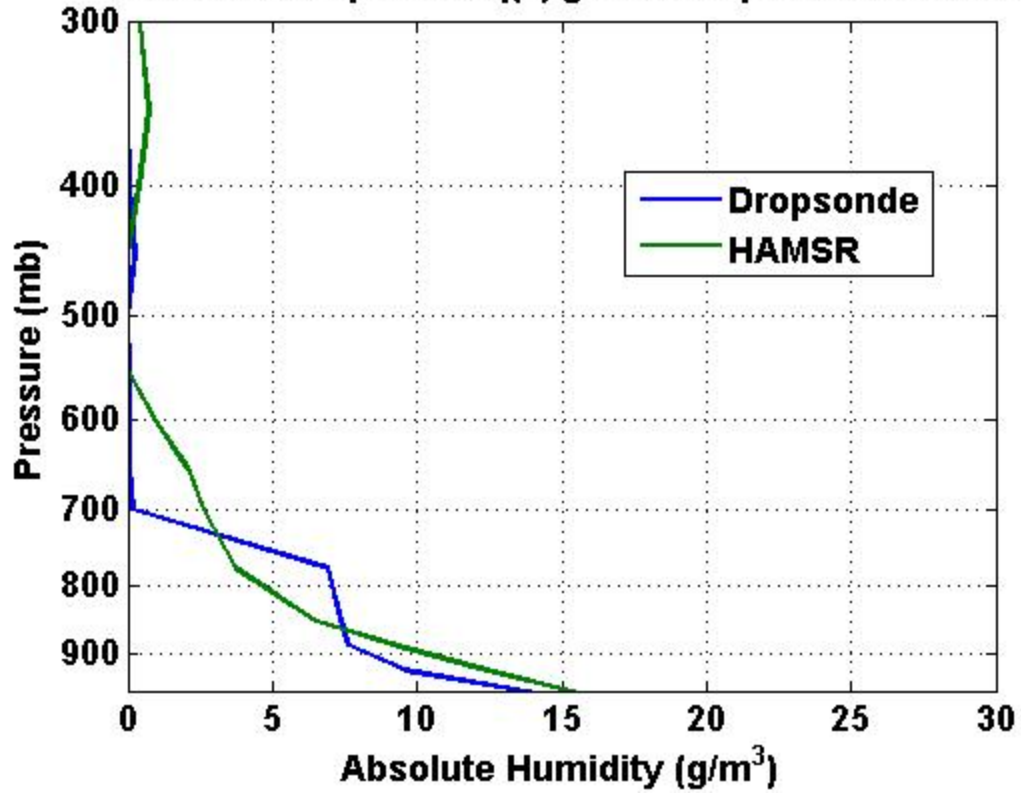
09-Sep-2011 15:26:39

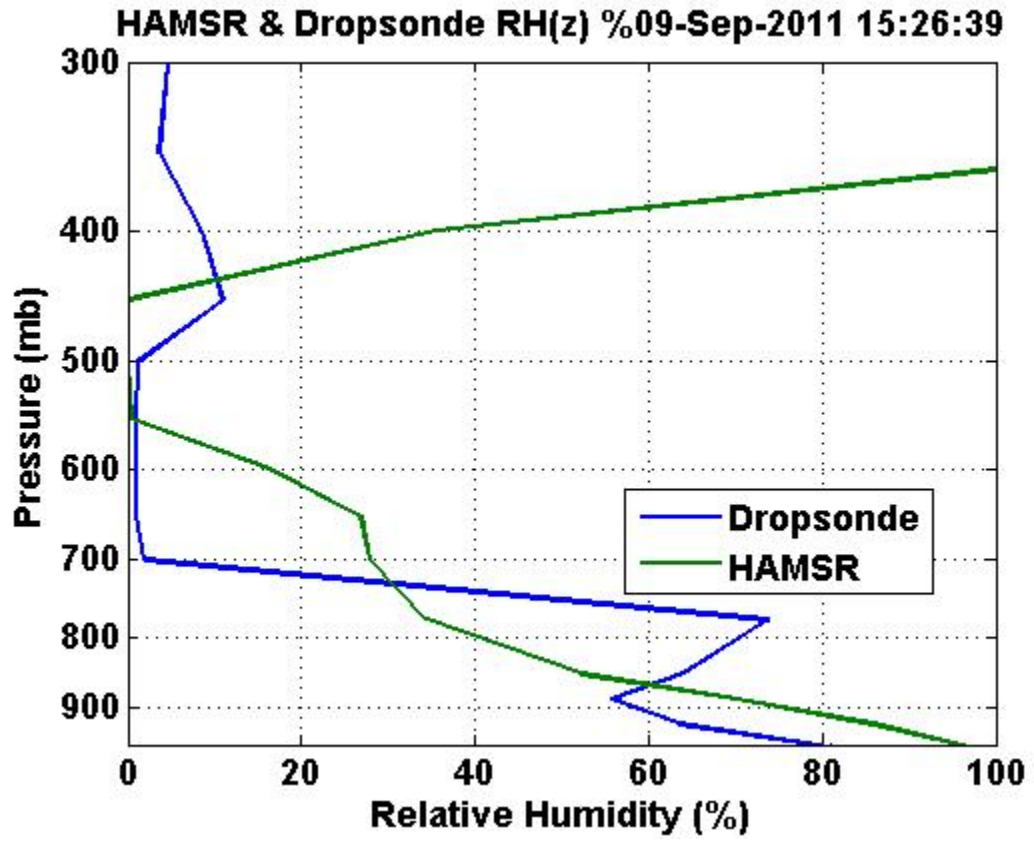


HAMSR & Dropsonde T(z) °C 09-Sep-2011 15:26:39



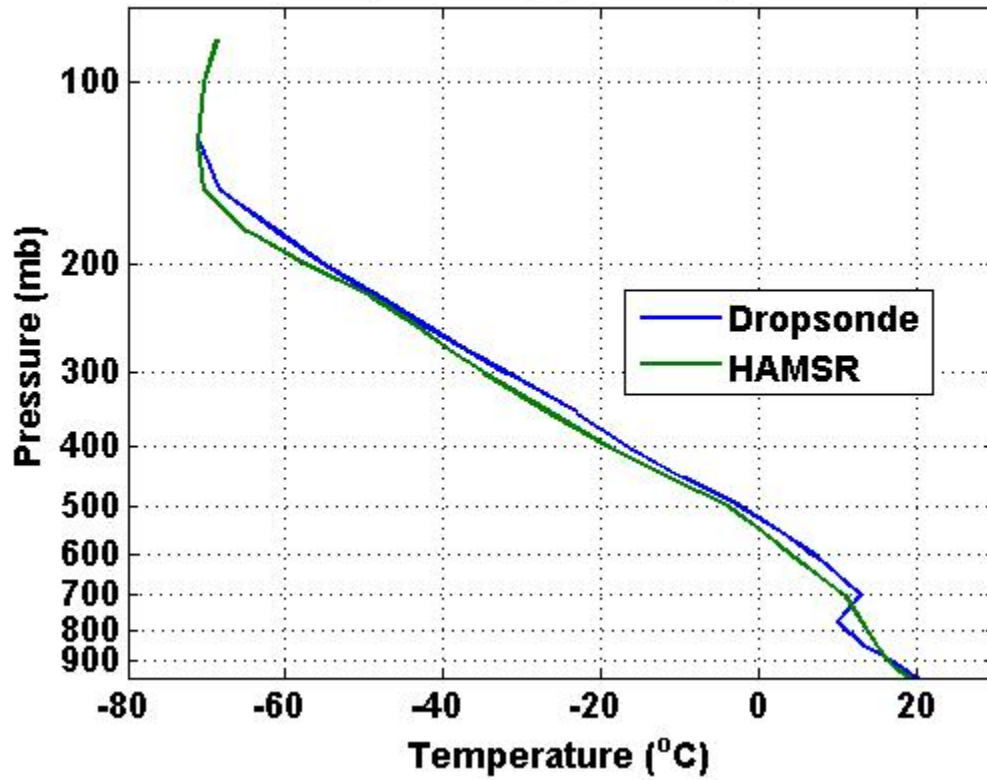
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 15:26:39



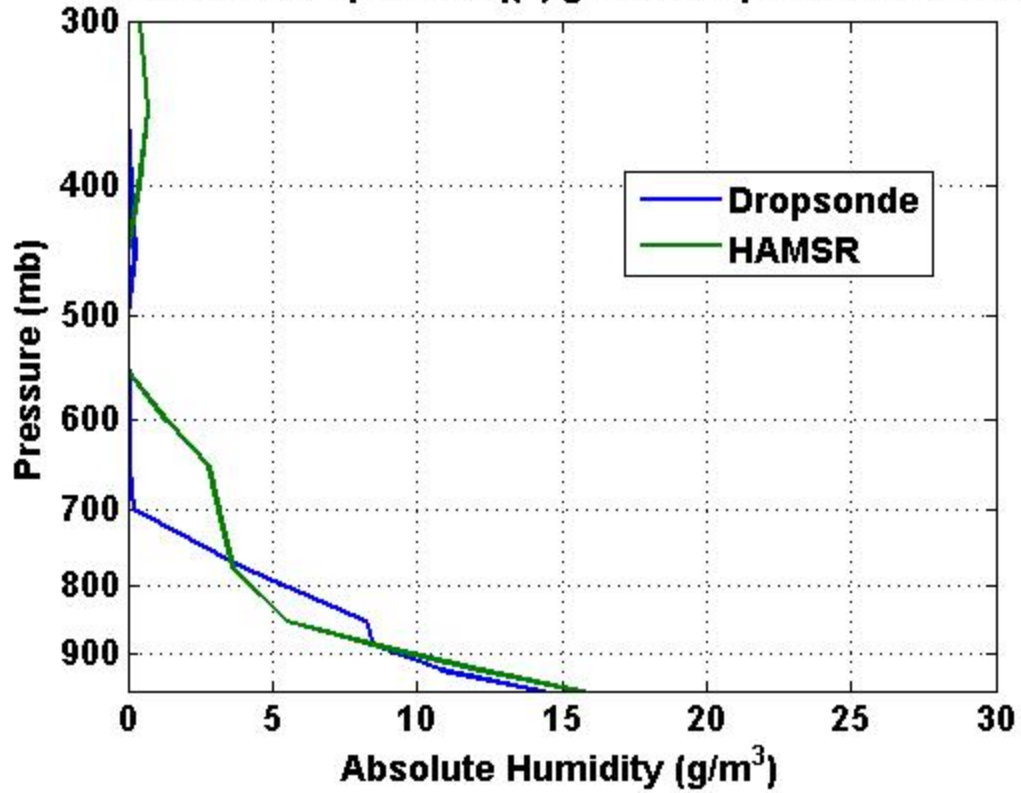


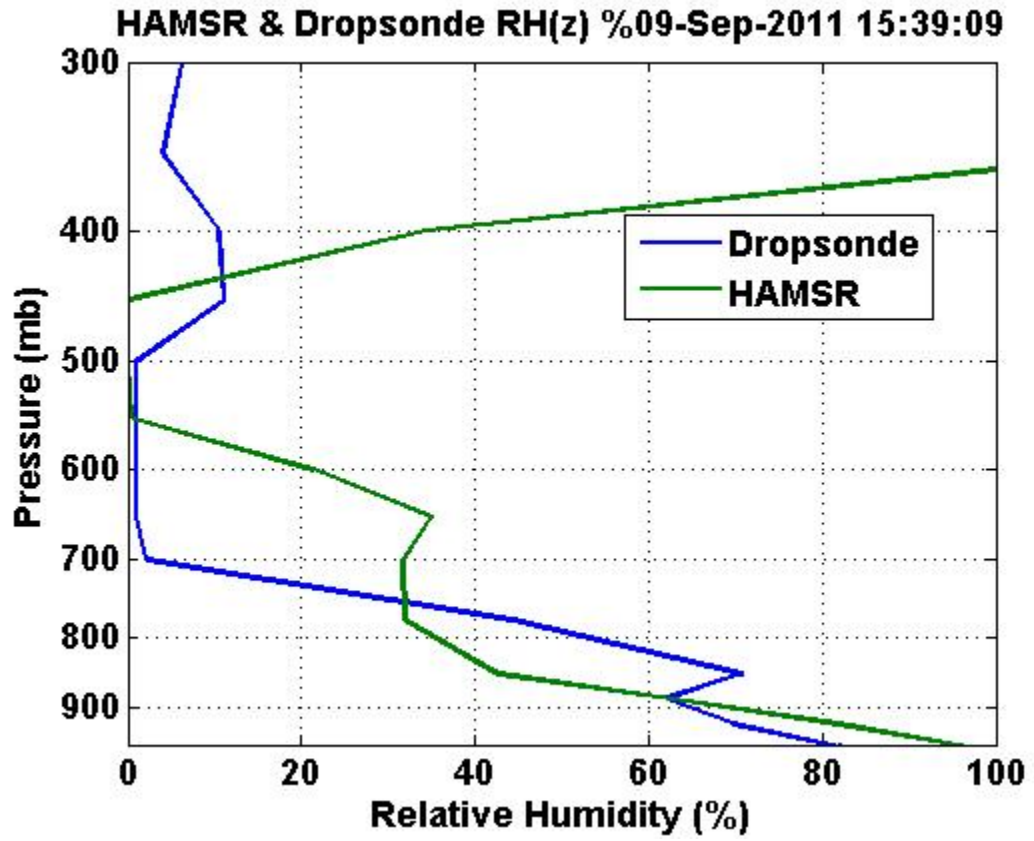
09-Sep-2011 15:39:09

HAMSR & Dropsonde T(z) °C 09-Sep-2011 15:39:09



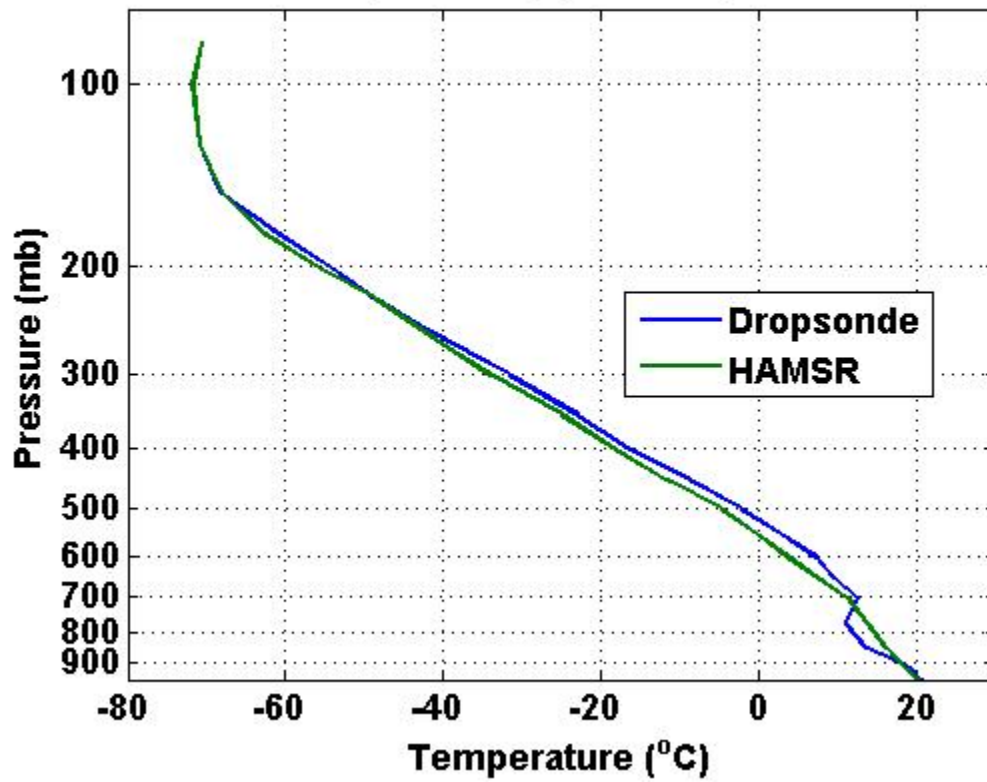
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 15:39:09



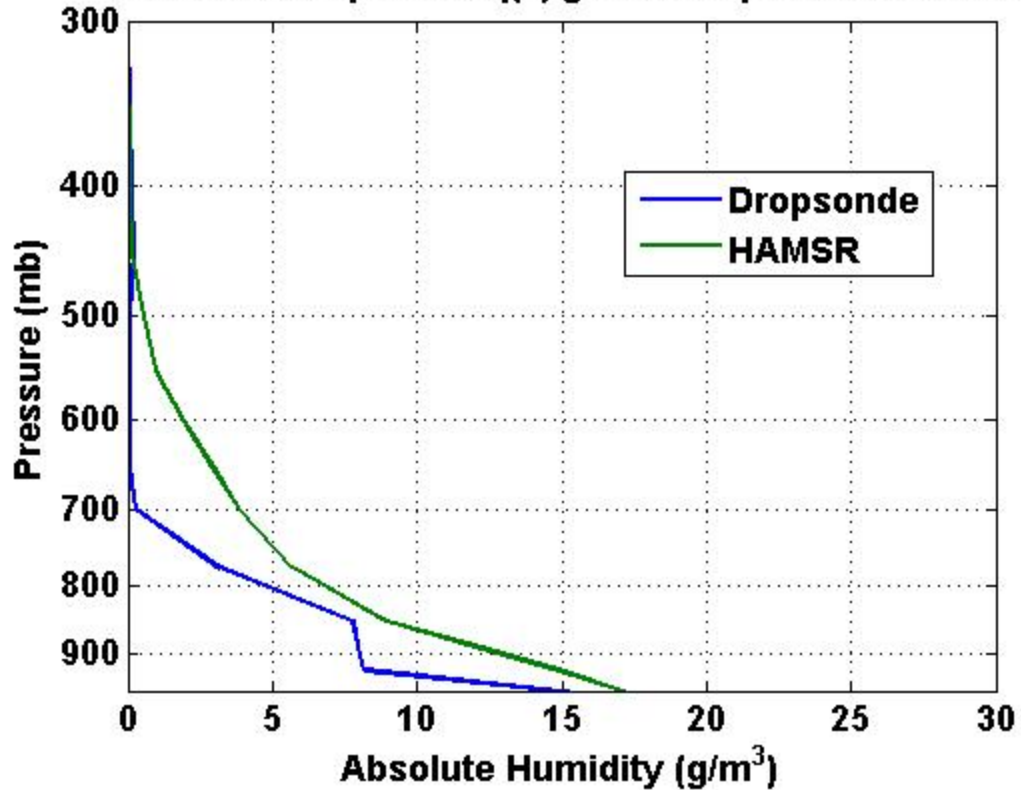


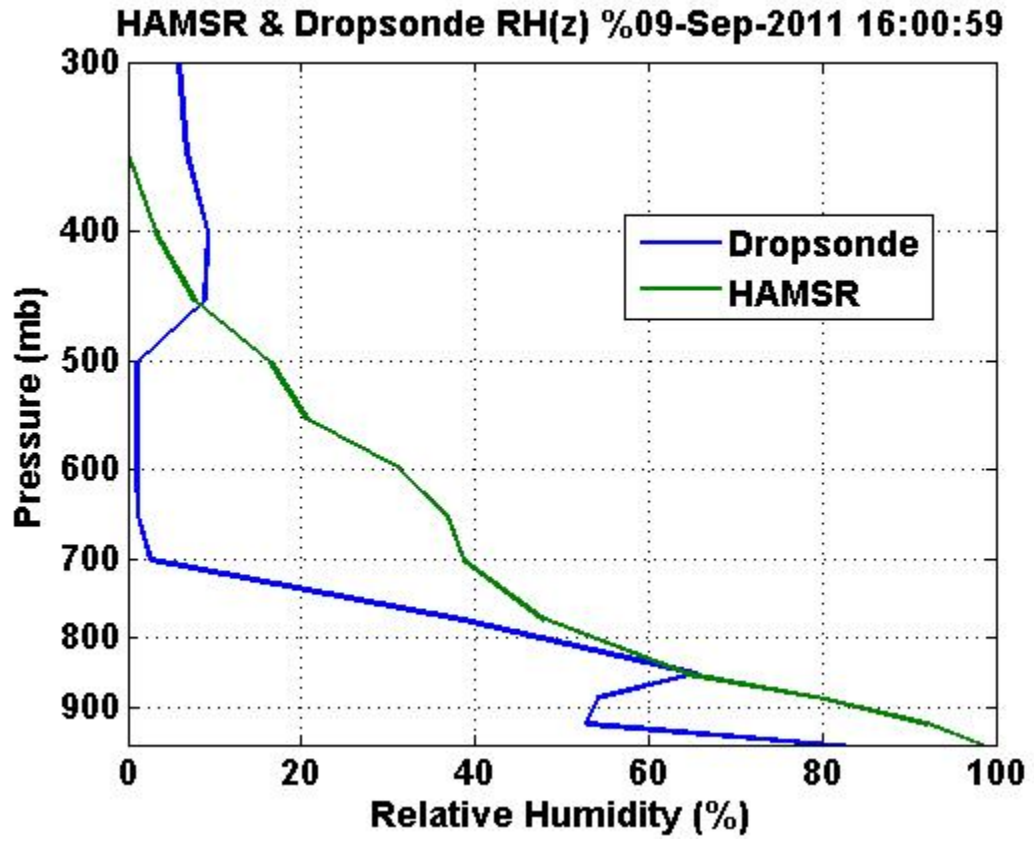
09-Sep-2011 16:00:59

HAMSR & Dropsonde T(z) °C 09-Sep-2011 16:00:59



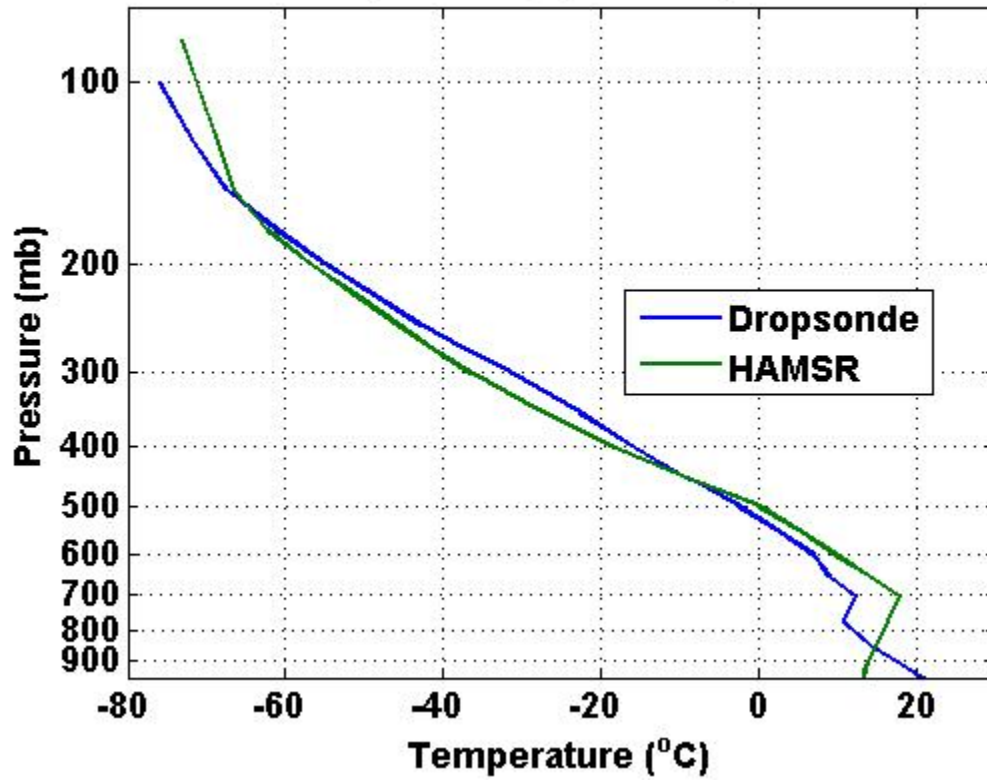
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 16:00:59



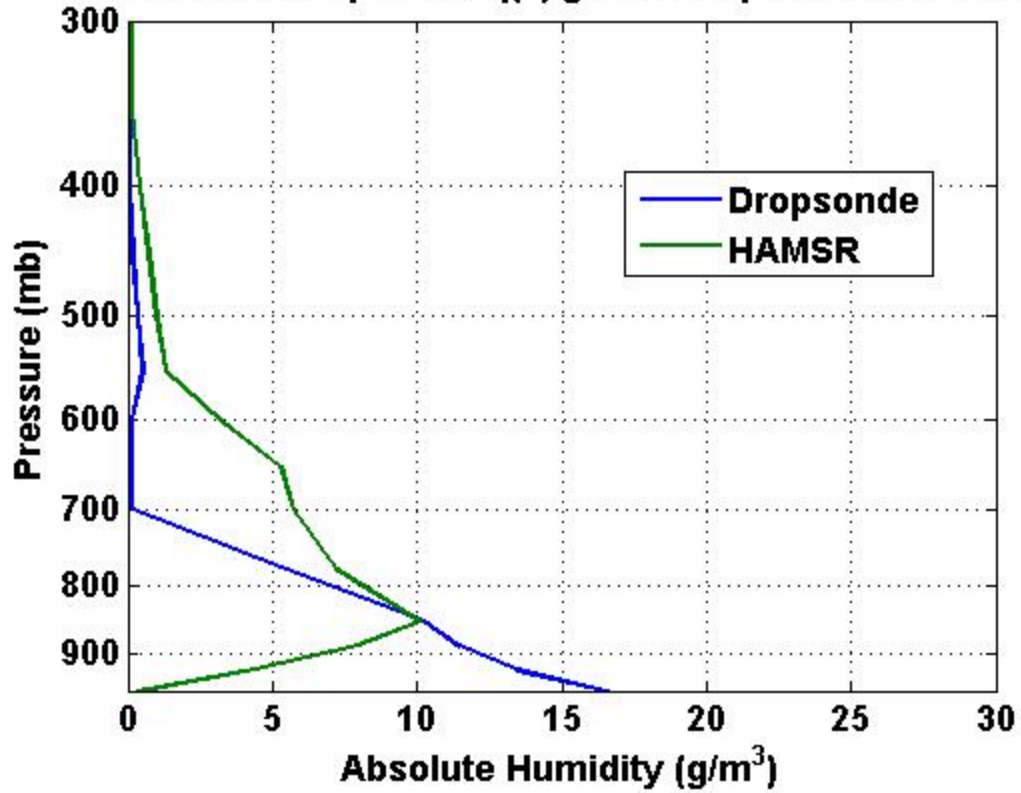


09-Sep-2011 16:12:39

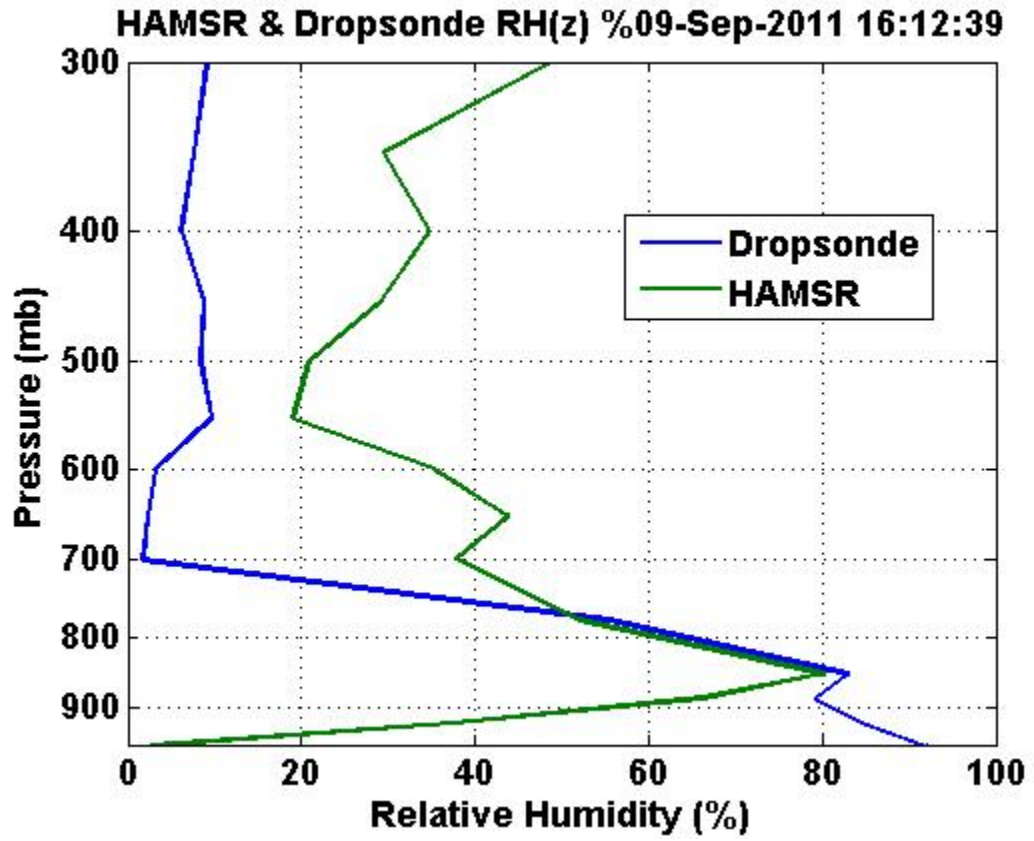
HAMSR & Dropsonde T(z) °C 09-Sep-2011 16:12:39



HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 16:12:39

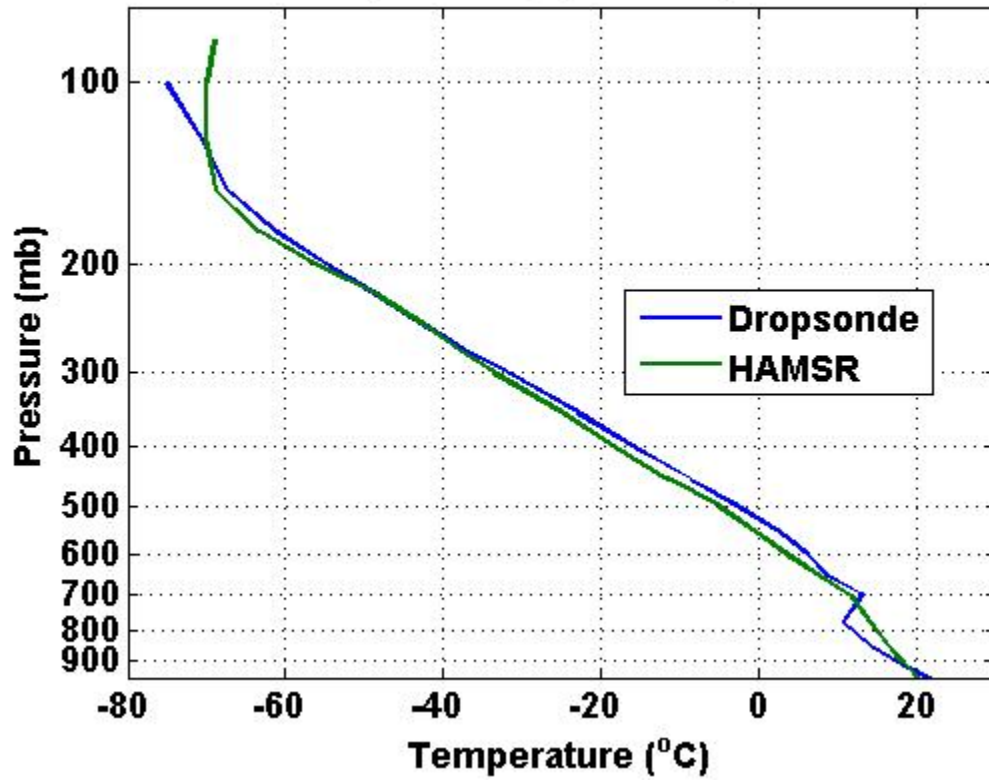




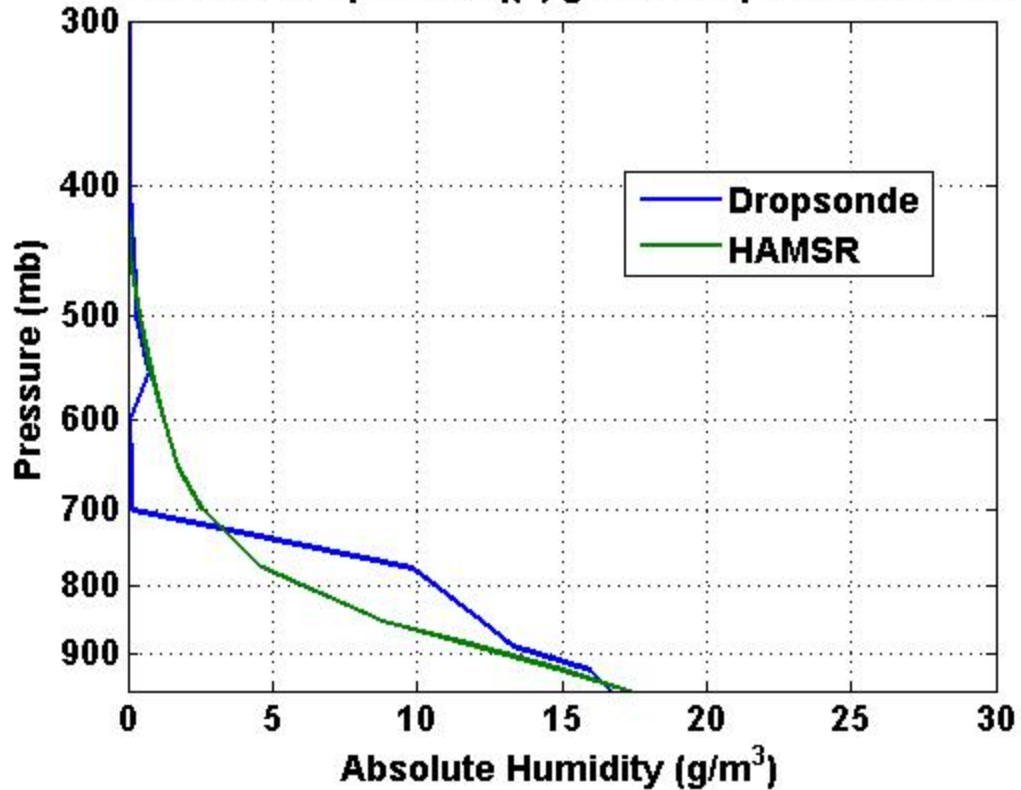


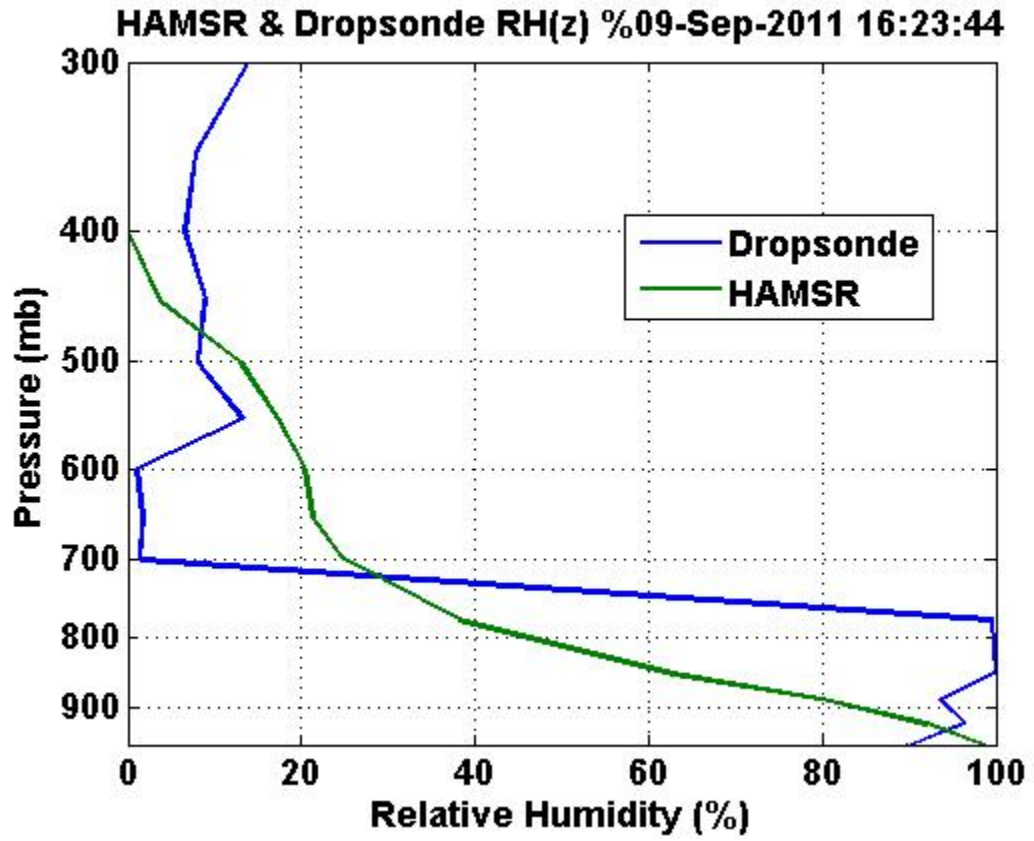
09-Sep-2011 16:23:44

HAMSR & Dropsonde T(z) °C 09-Sep-2011 16:23:44



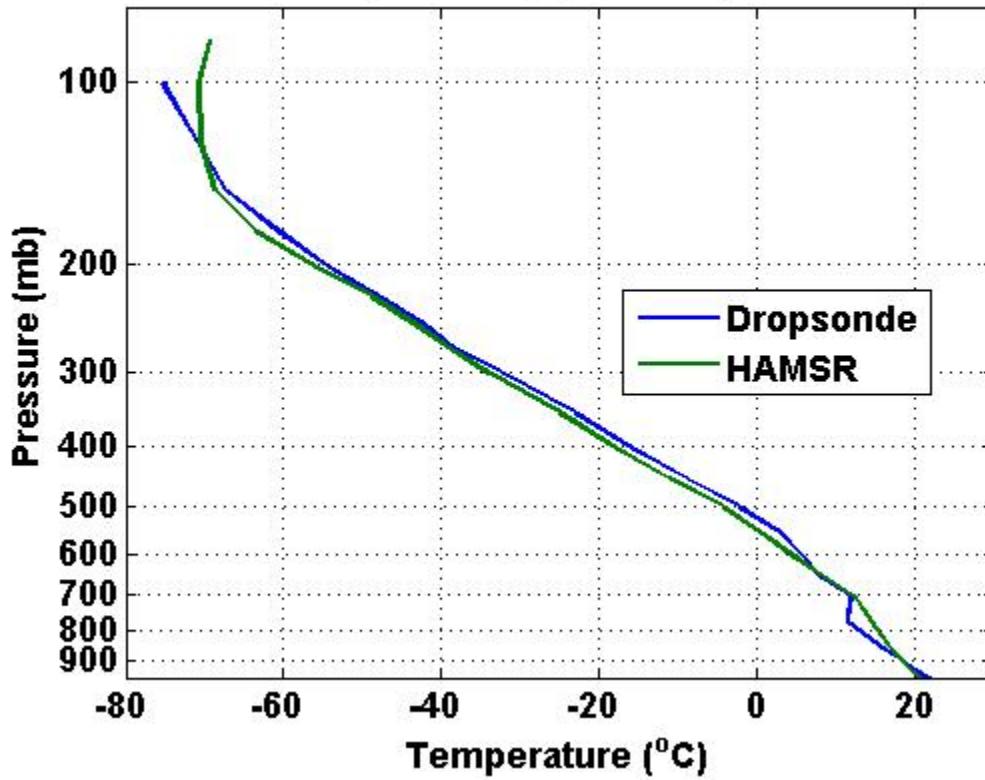
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 16:23:44



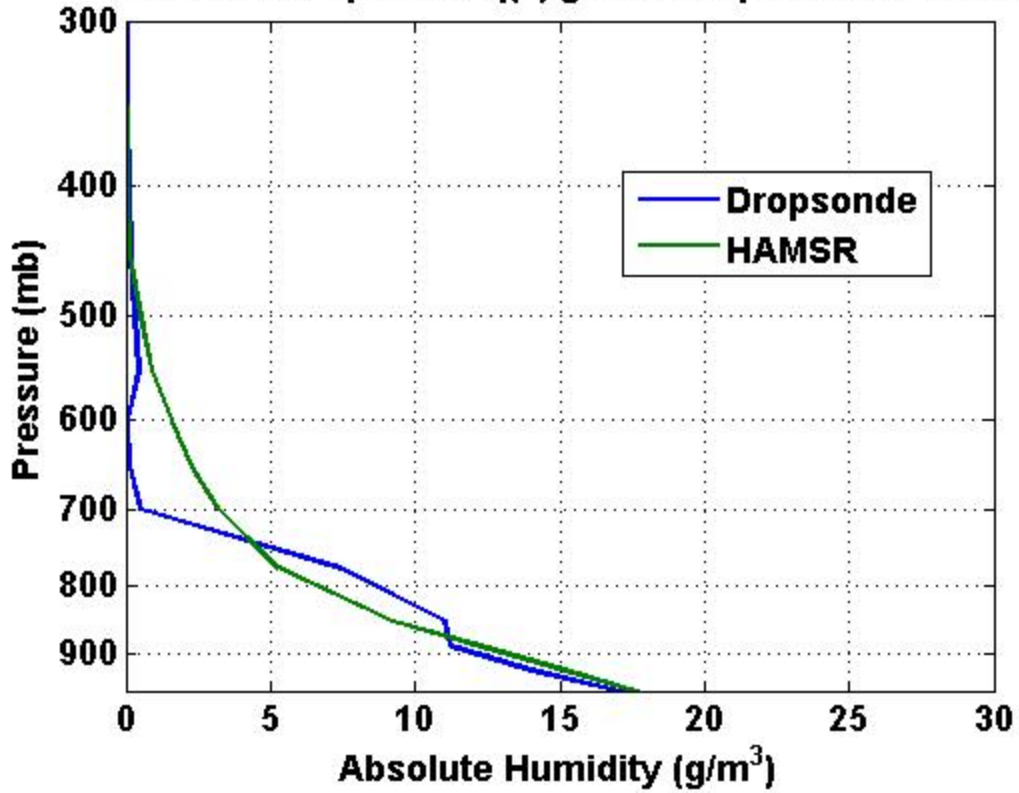


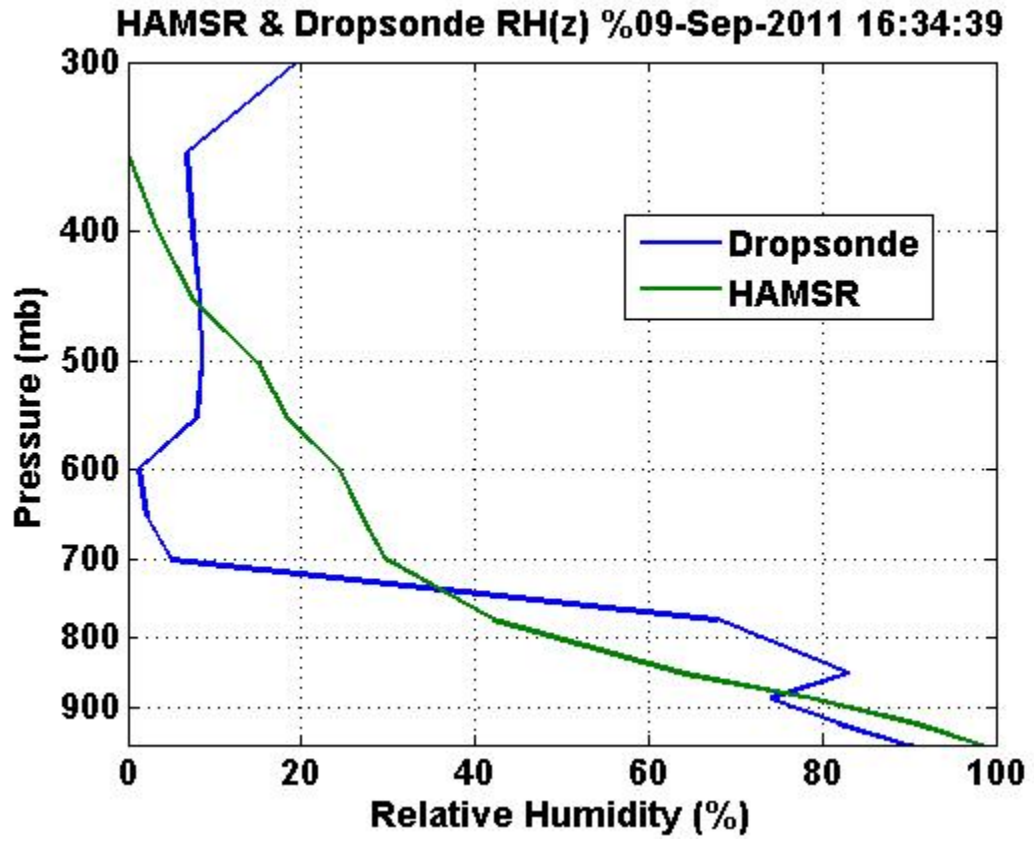
09-Sep-2011 16:34:39

HAMSR & Dropsonde T(z) °C 09-Sep-2011 16:34:39



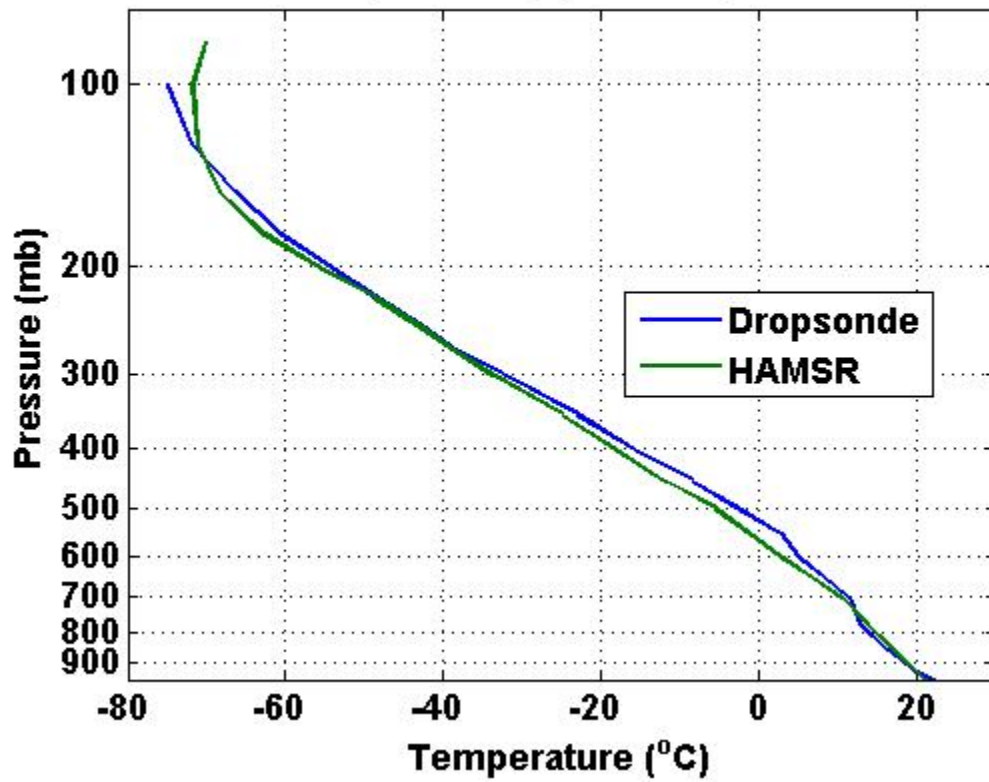
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 16:34:39



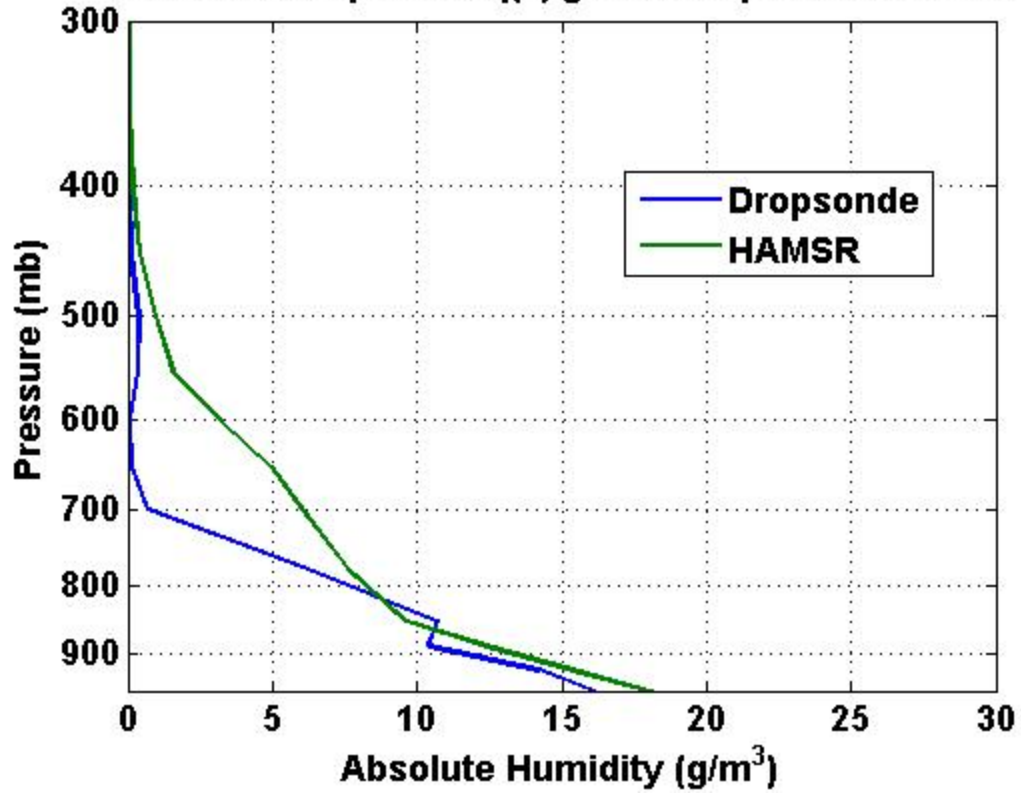


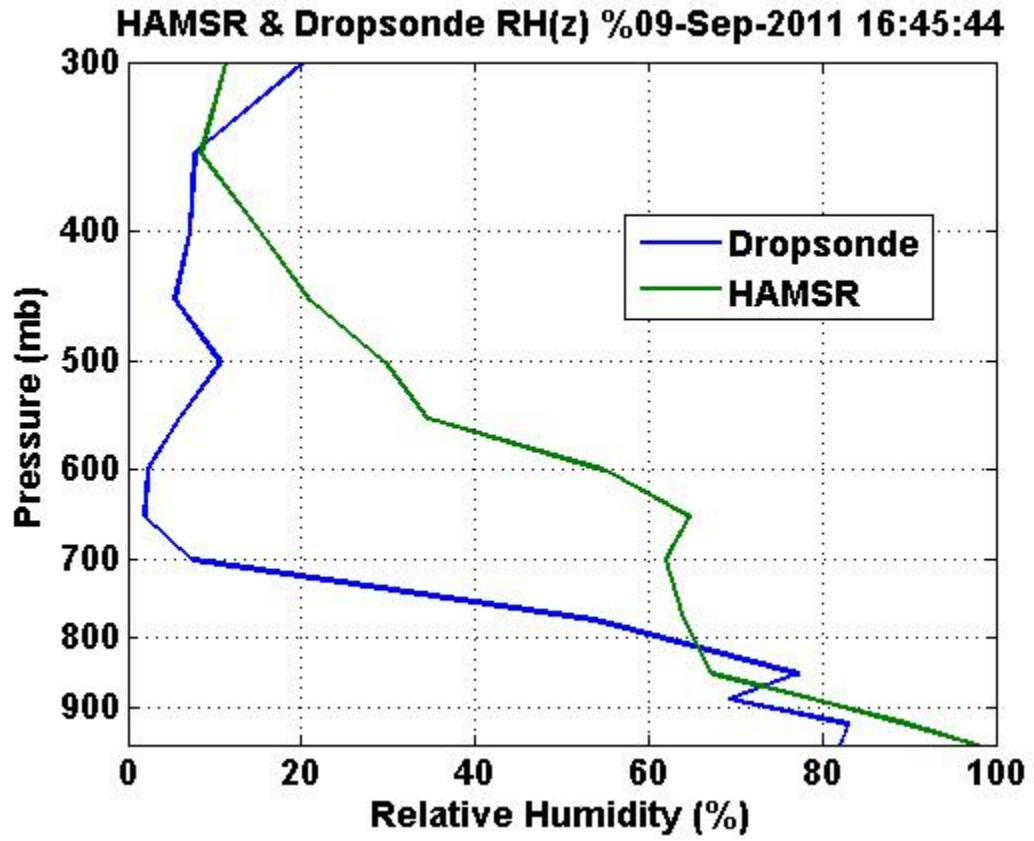
09-Sep-2011 16:45:44

HAMSR & Dropsonde T(z) °C 09-Sep-2011 16:45:44



HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 16:45:44

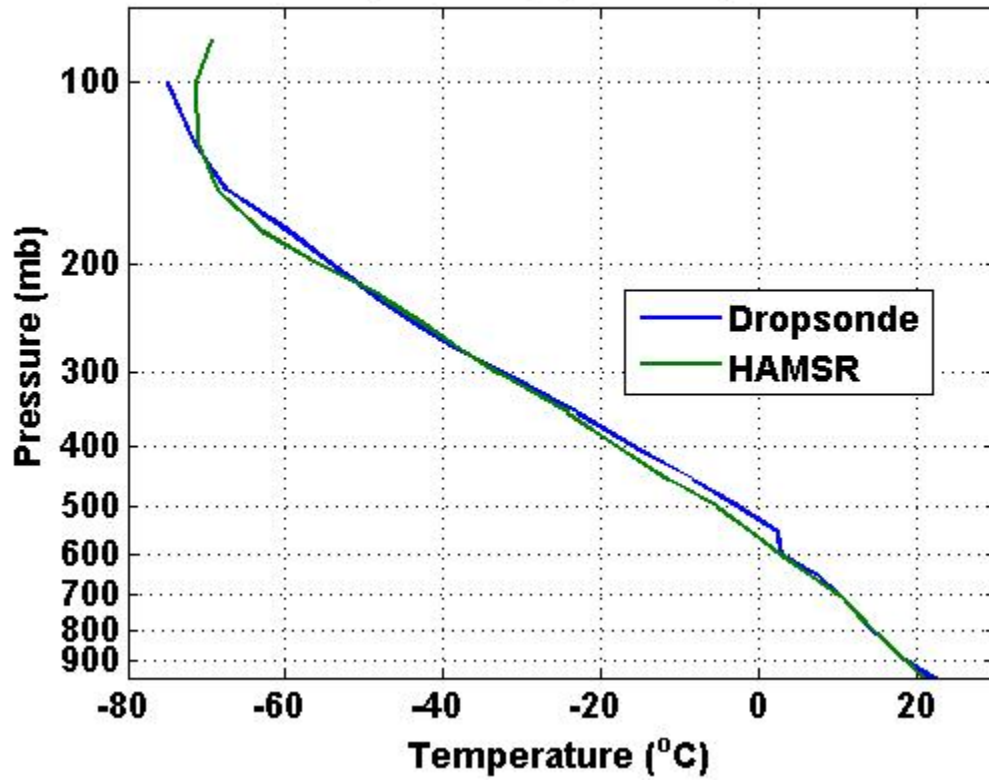




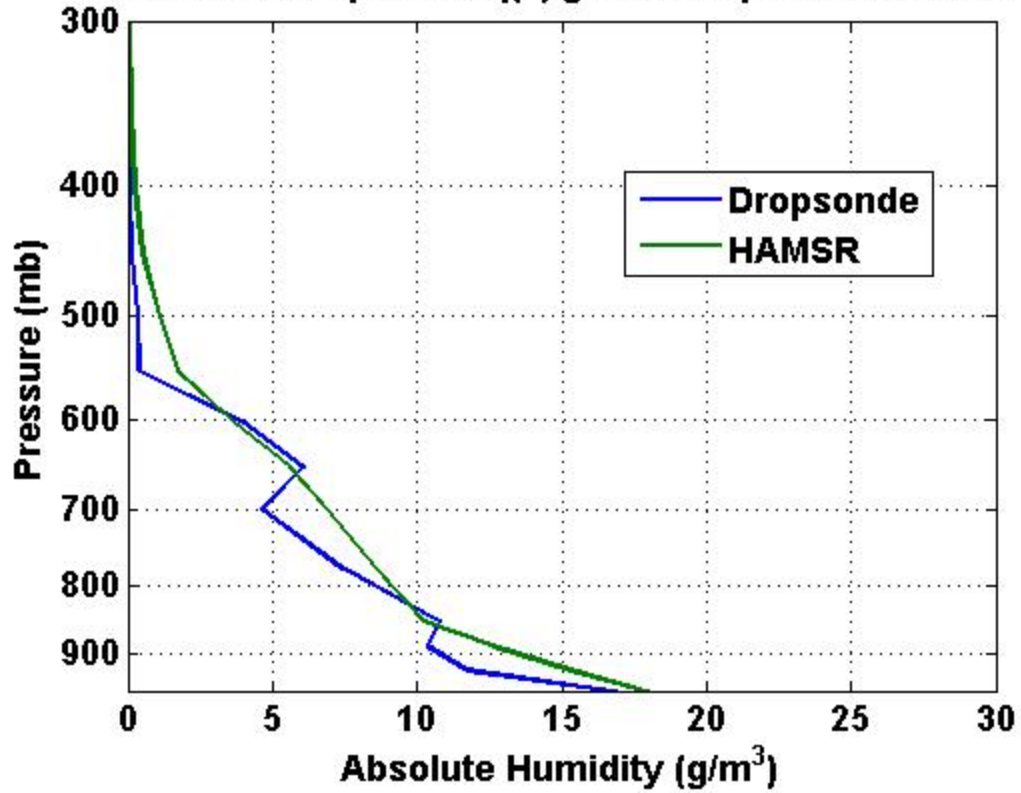
09-Sep-2011 16:58:34

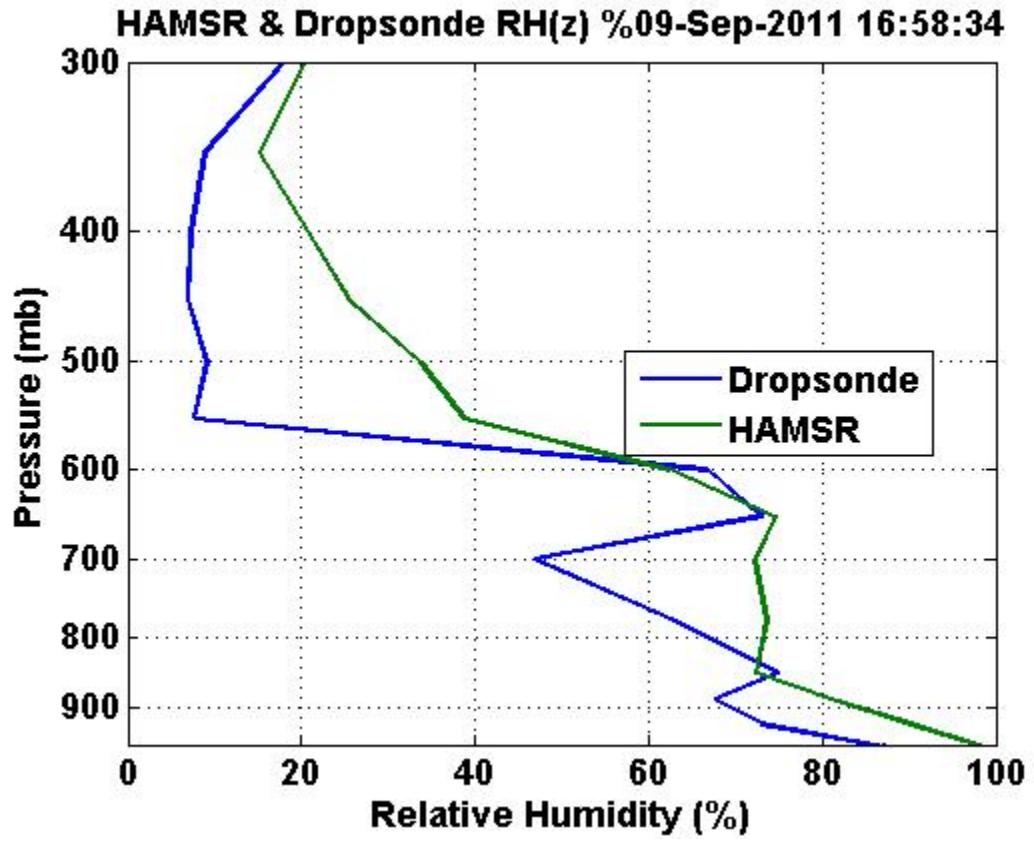


HAMSR & Dropsonde T(z) °C 09-Sep-2011 16:58:34



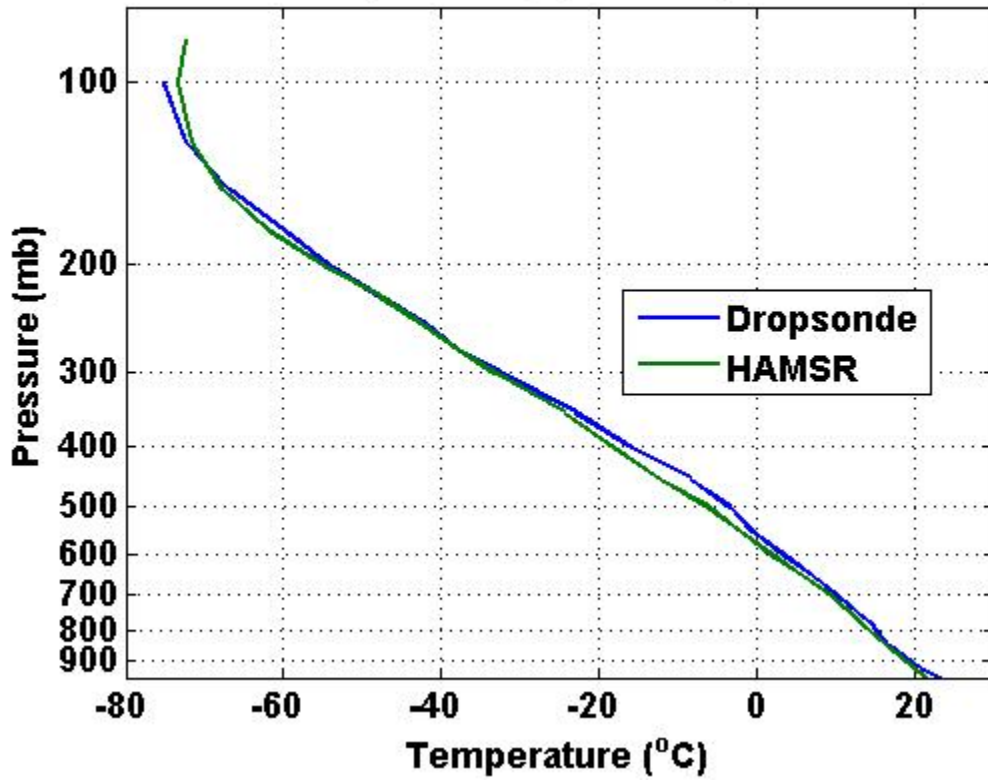
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 16:58:34



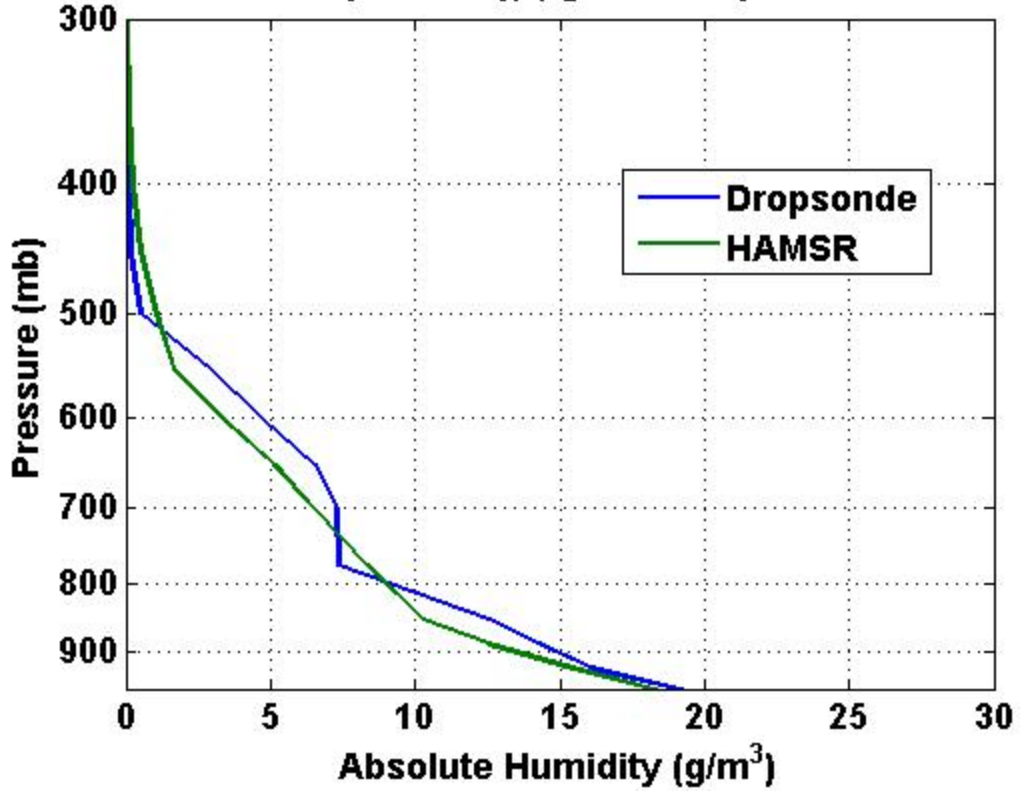


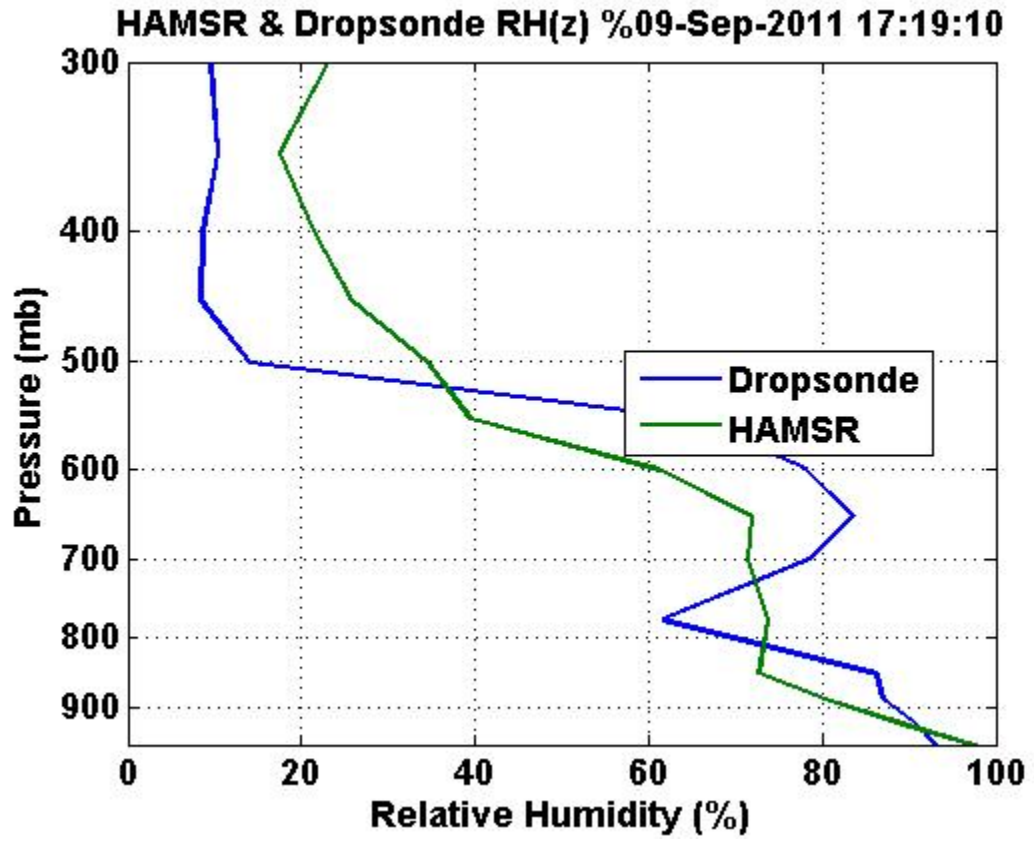
09-Sep-2011 17:19:10

HAMSR & Dropsonde T(z) °C 09-Sep-2011 17:19:10



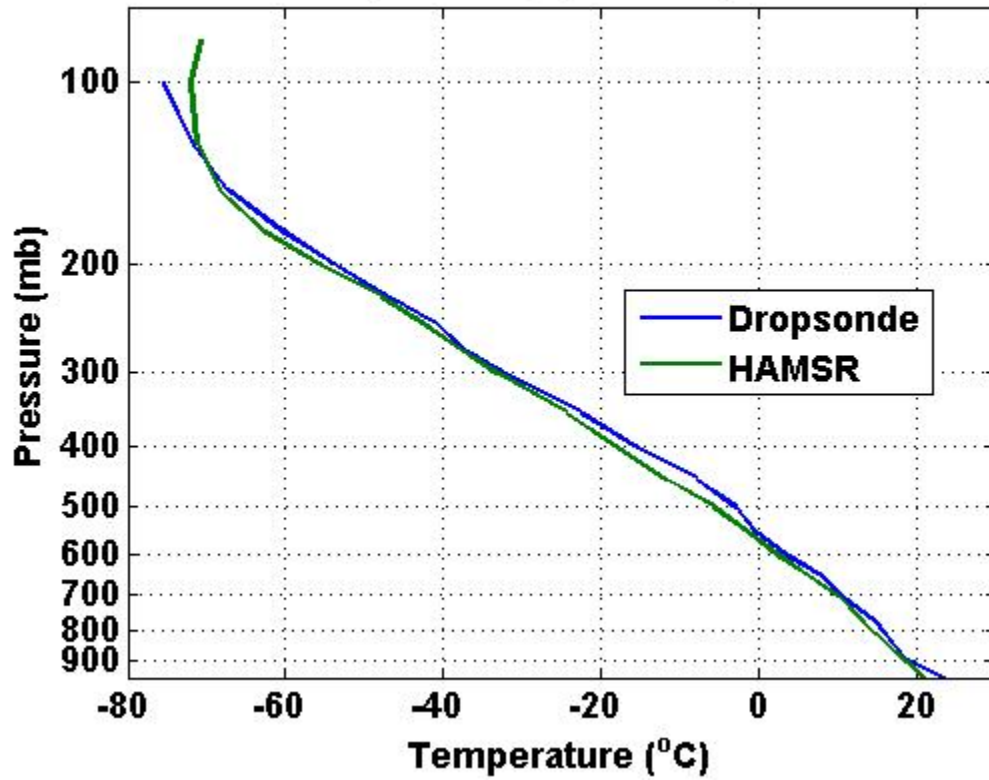
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 17:19:10



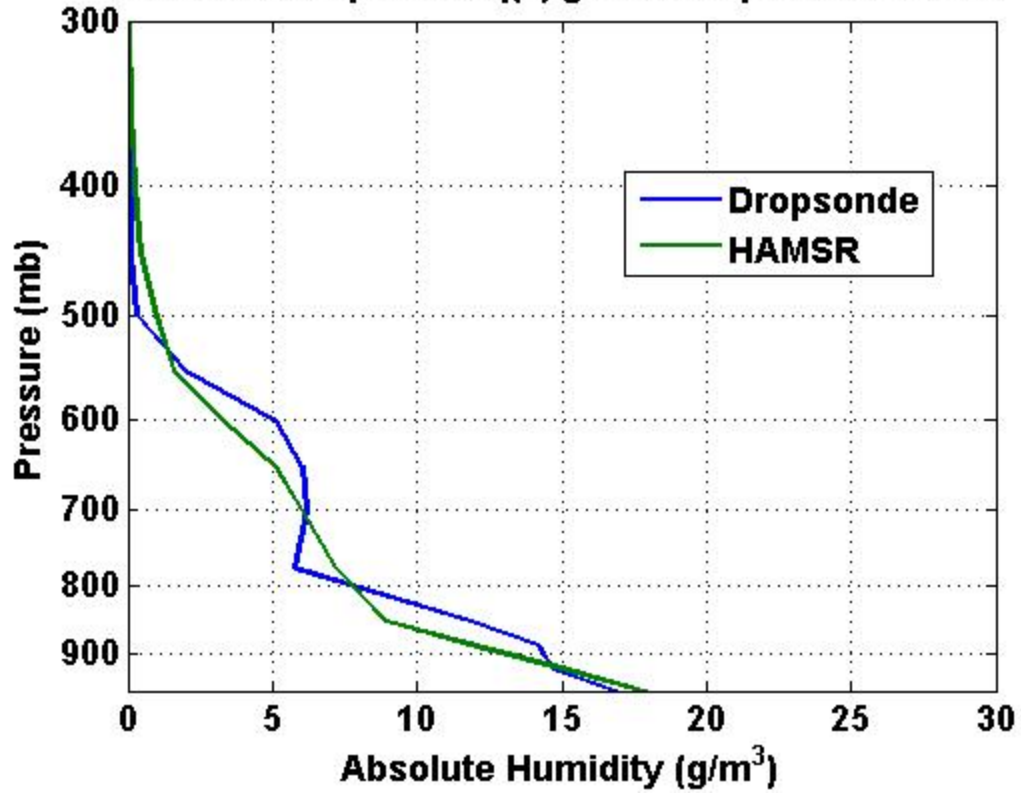


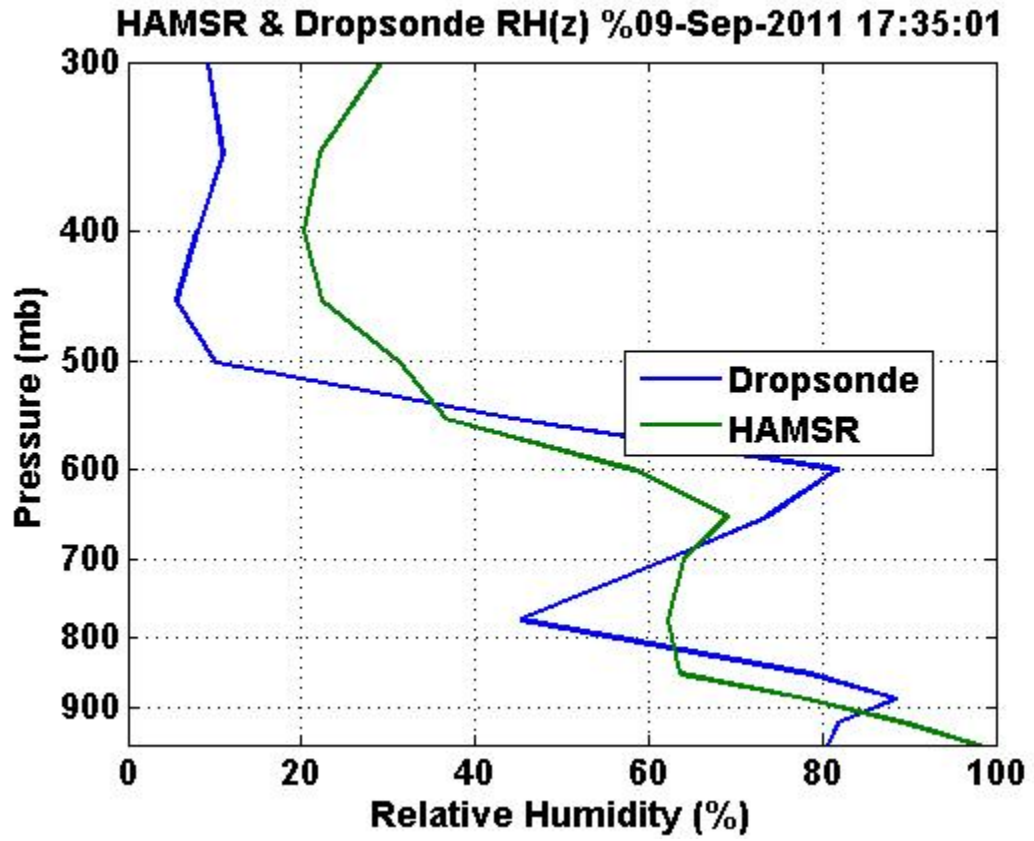
09-Sep-2011 17:35:01

HAMSR & Dropsonde T(z) °C 09-Sep-2011 17:35:01



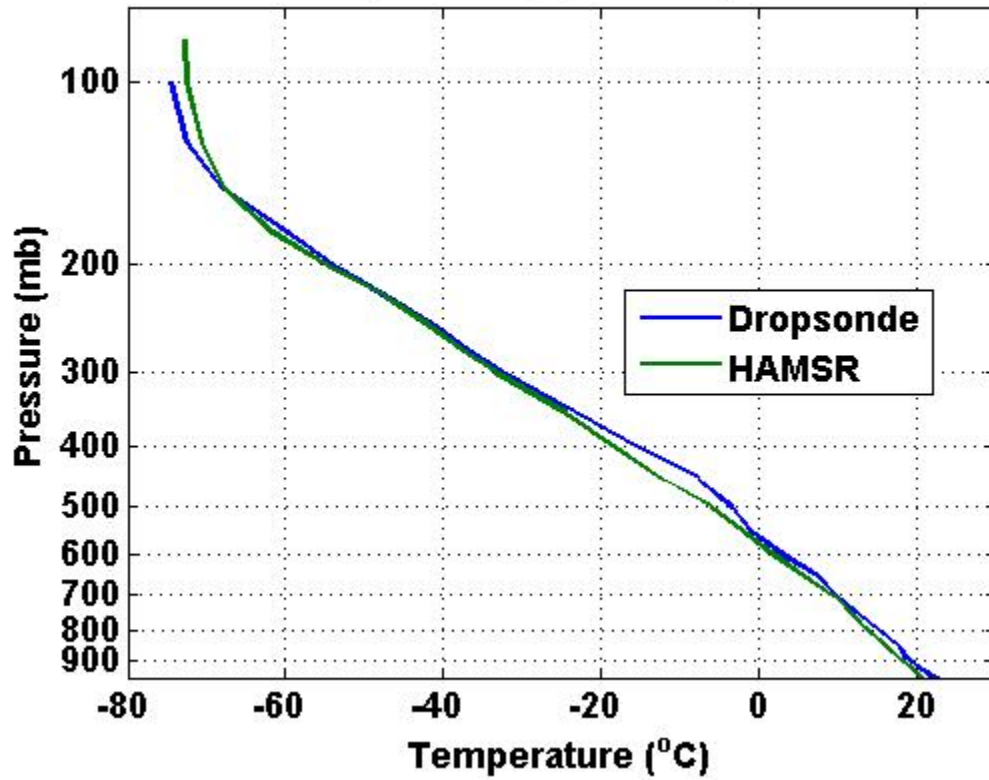
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 17:35:01



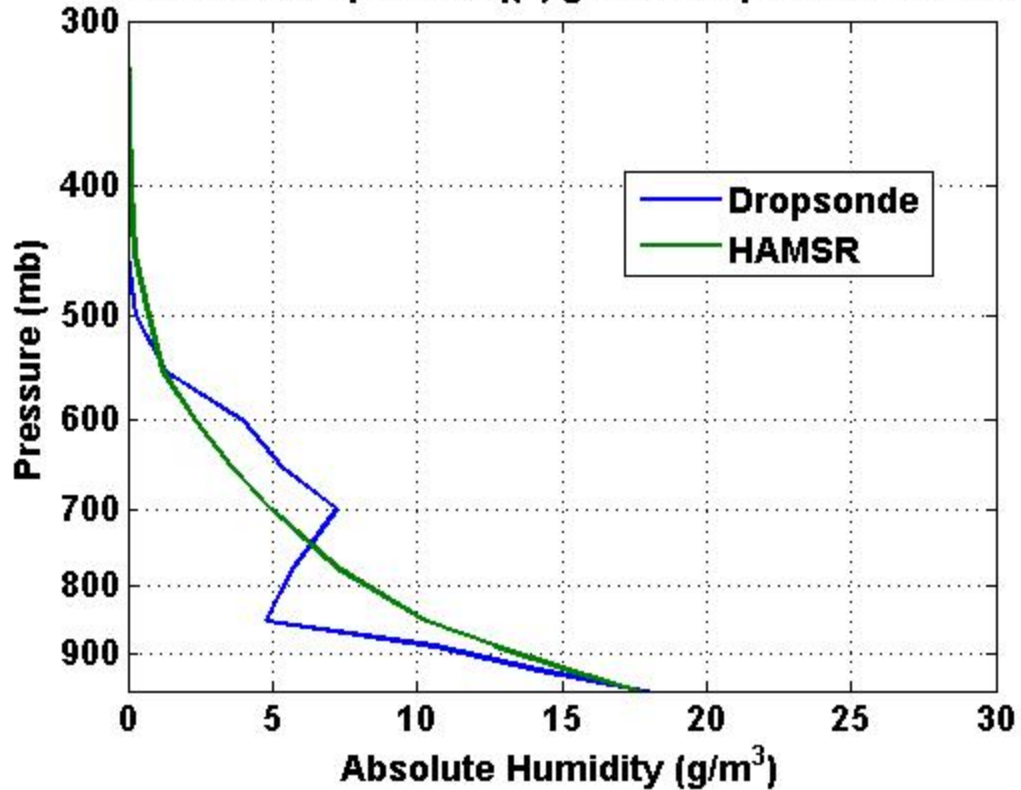


09-Sep-2011 17:49:54

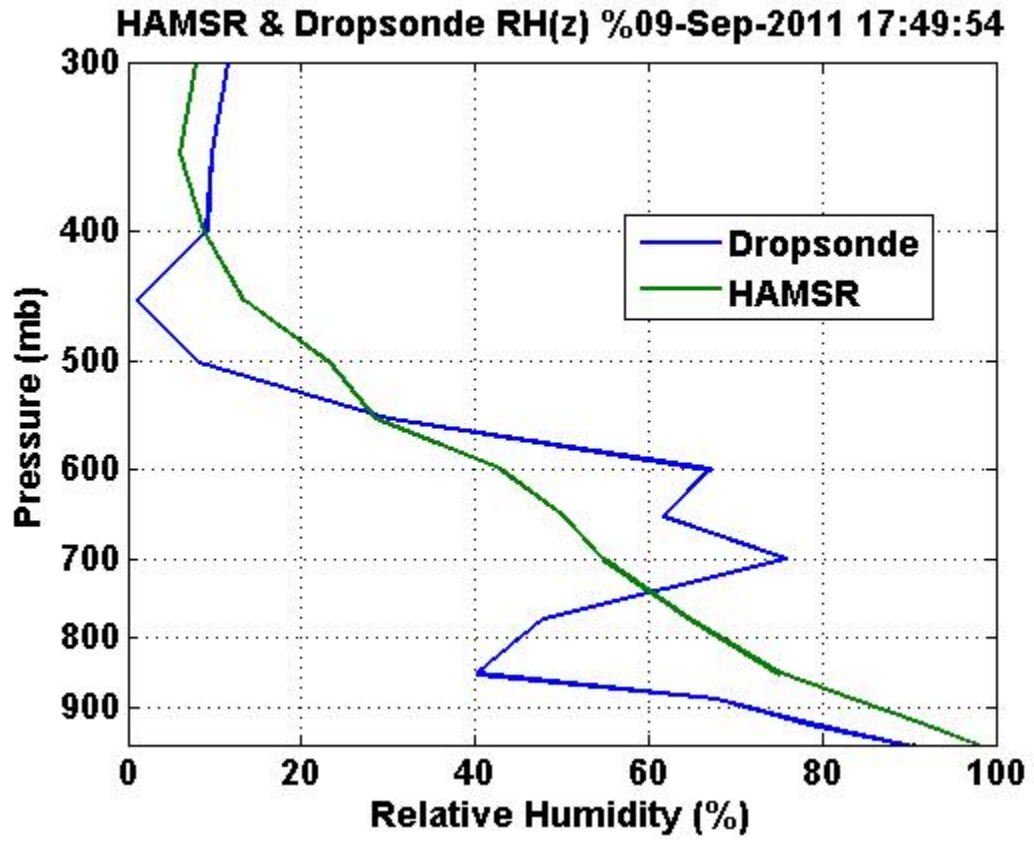
HAMSR & Dropsonde T(z) °C 09-Sep-2011 17:49:54



HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 17:49:54

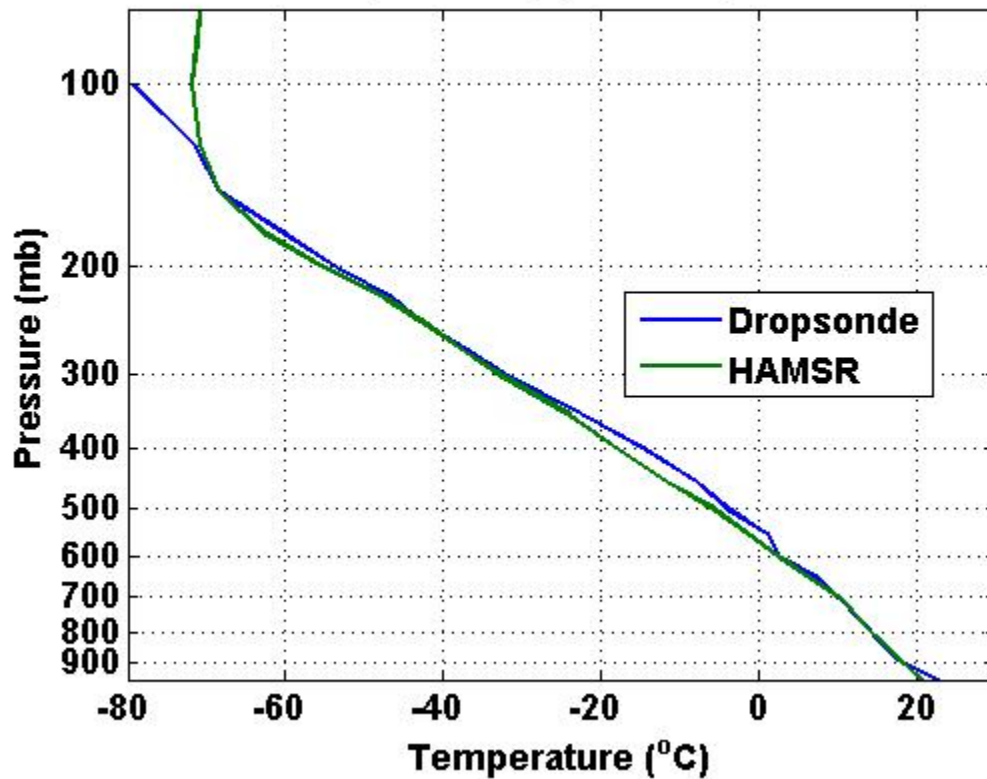




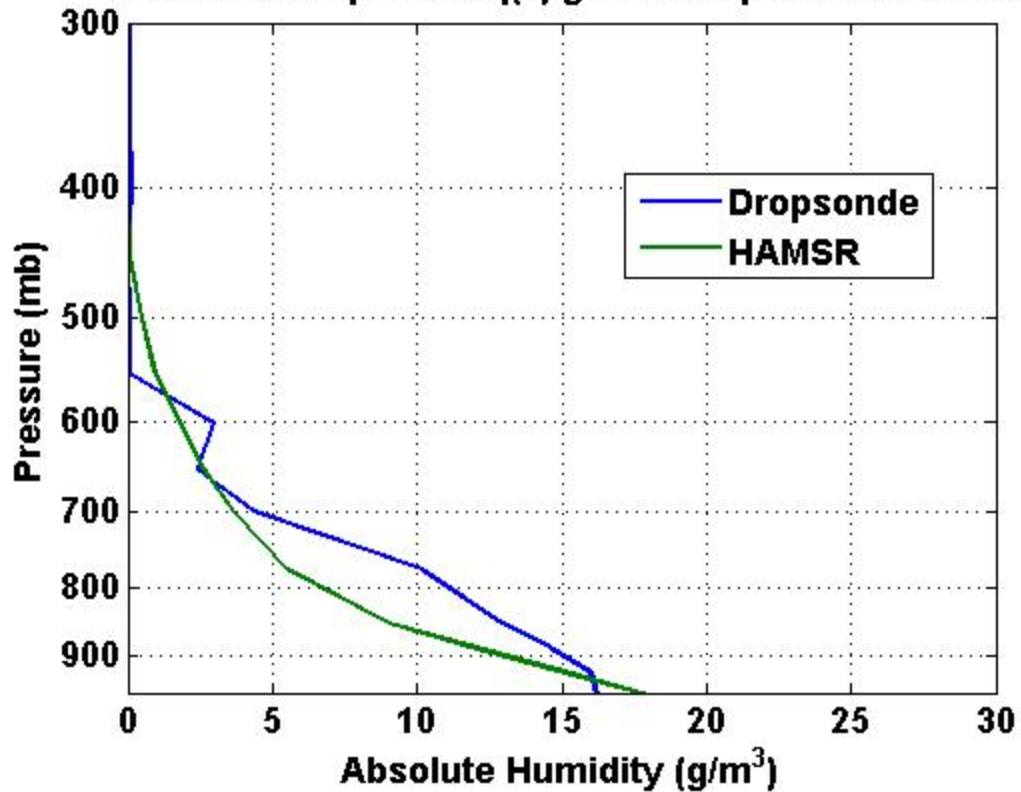


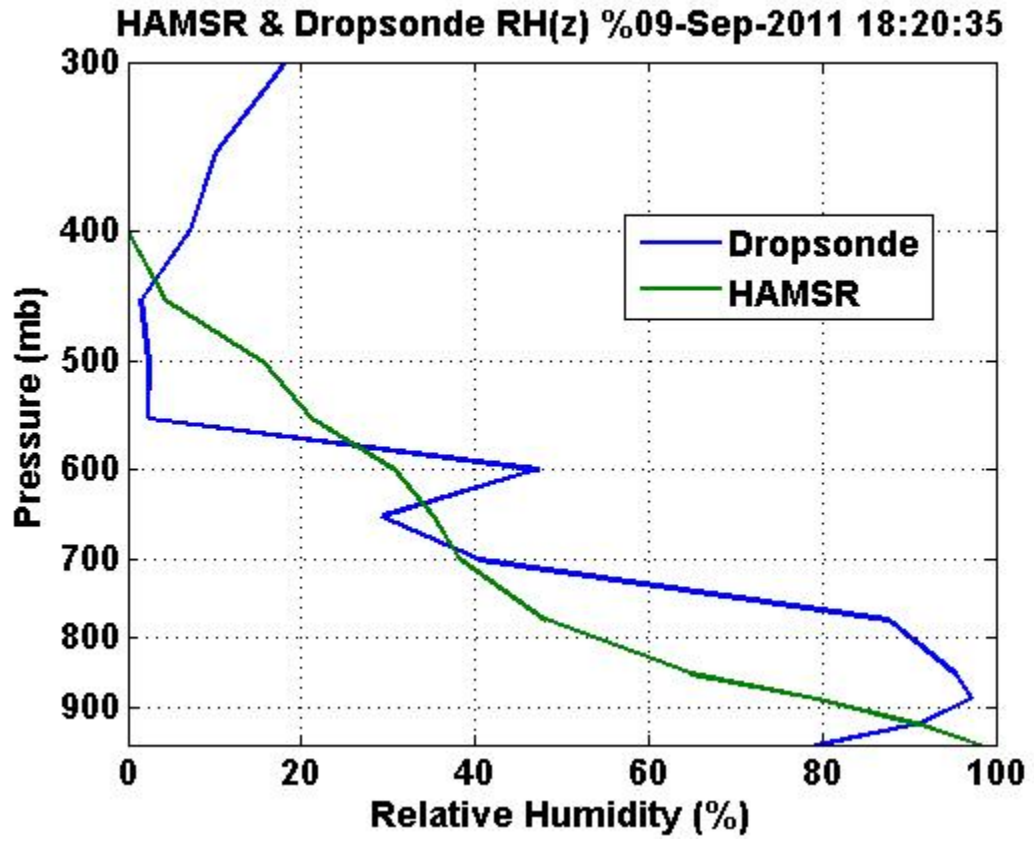
09-Sep-2011 18:20:35

HAMSR & Dropsonde T(z) °C 09-Sep-2011 18:20:35



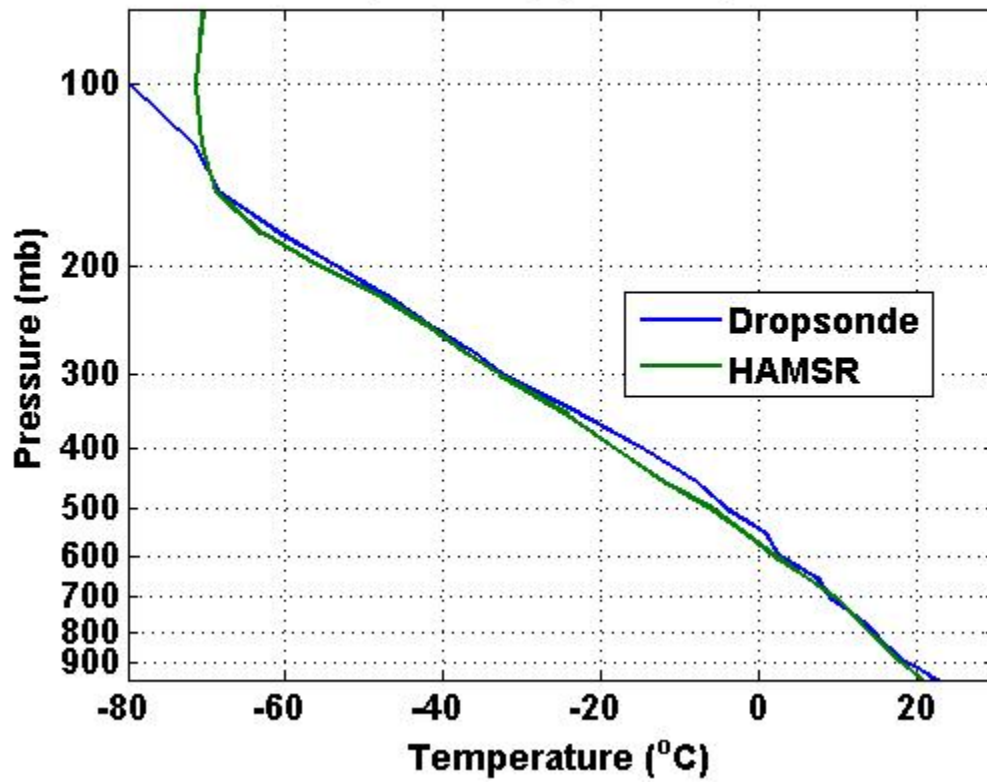
HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 18:20:35



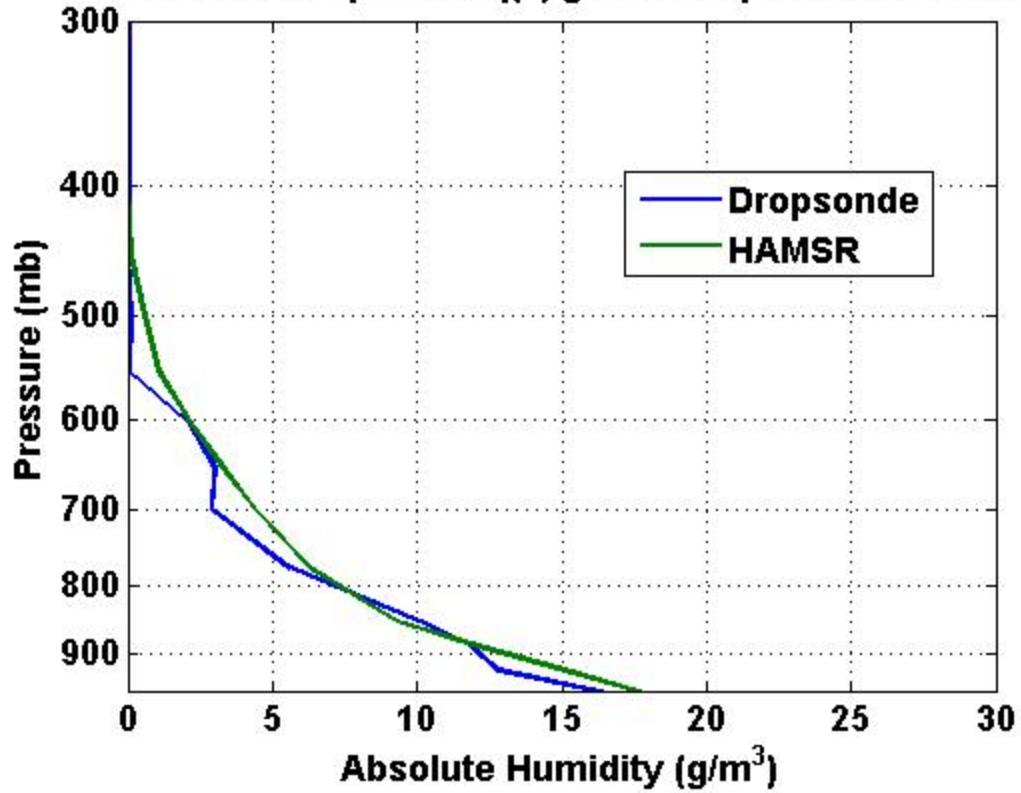


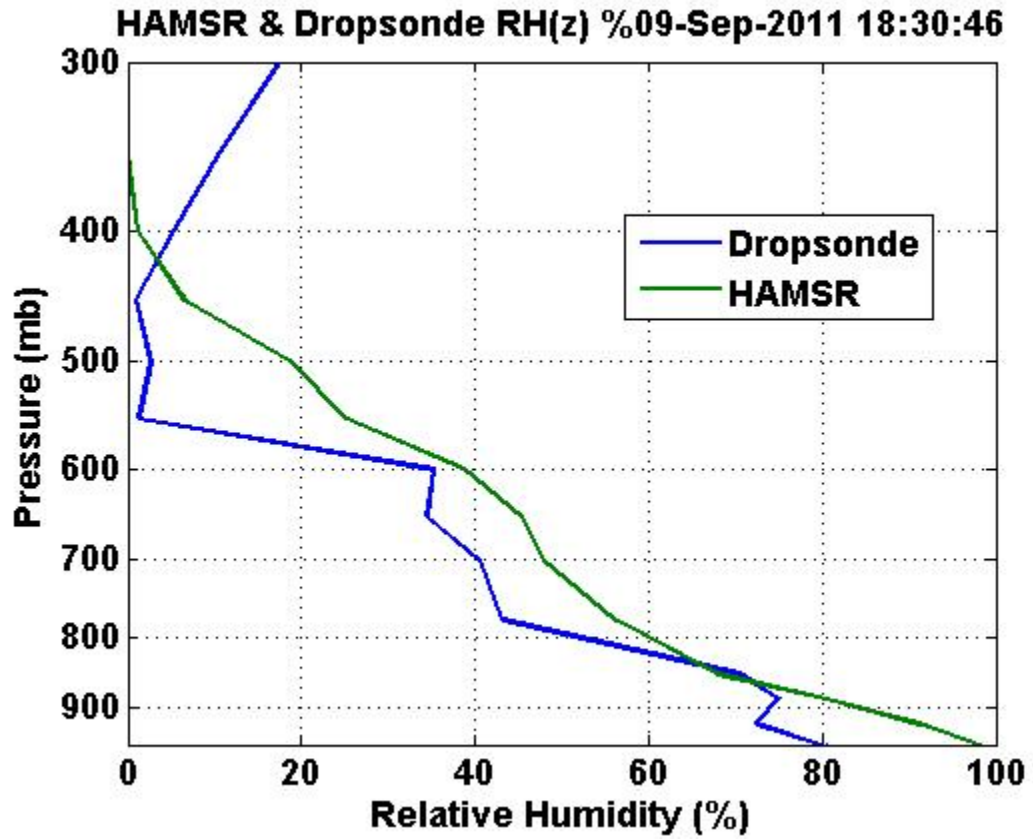
09-Sep-2011 18:30:46

HAMSR & Dropsonde T(z) °C 09-Sep-2011 18:30:46



HAMSR & Dropsonde q(z) g/m<sup>3</sup> 09-Sep-2011 18:30:46

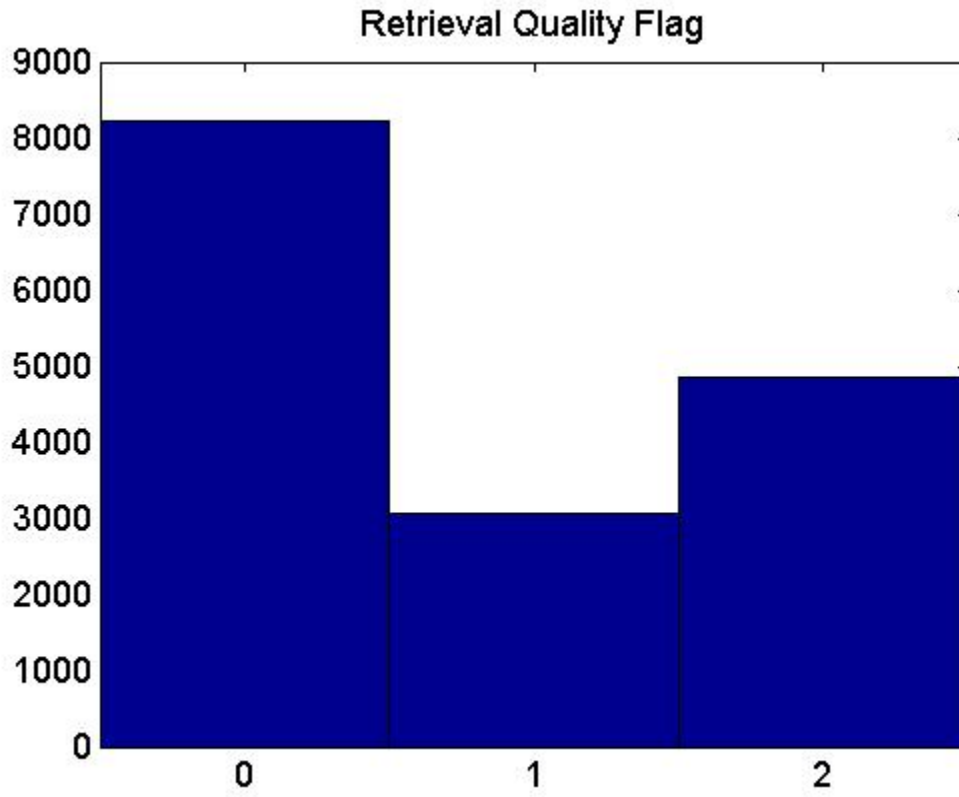




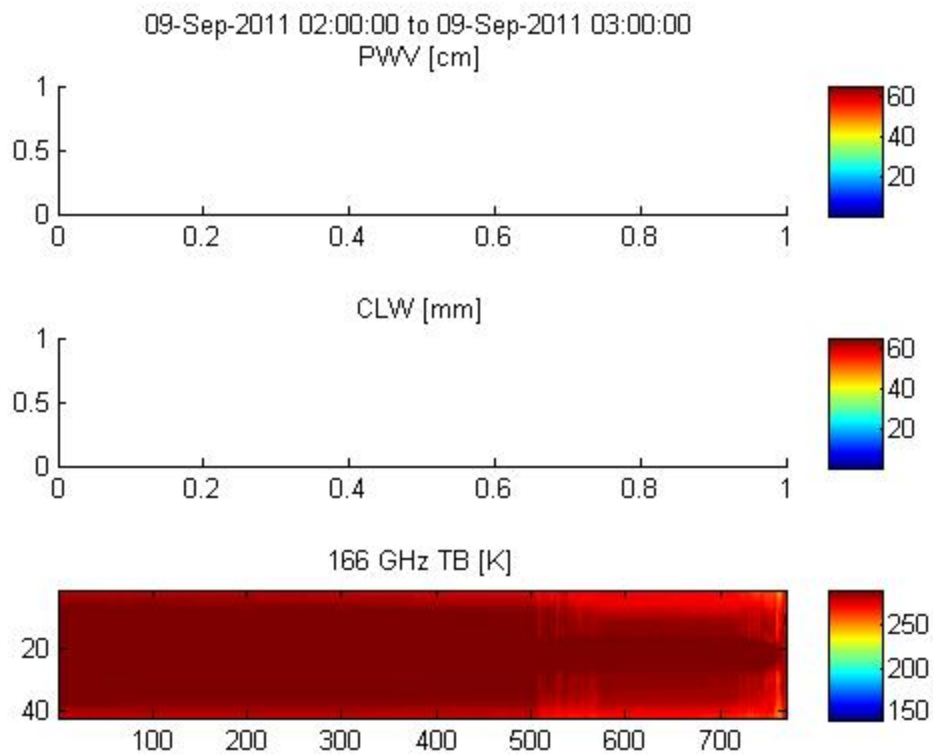
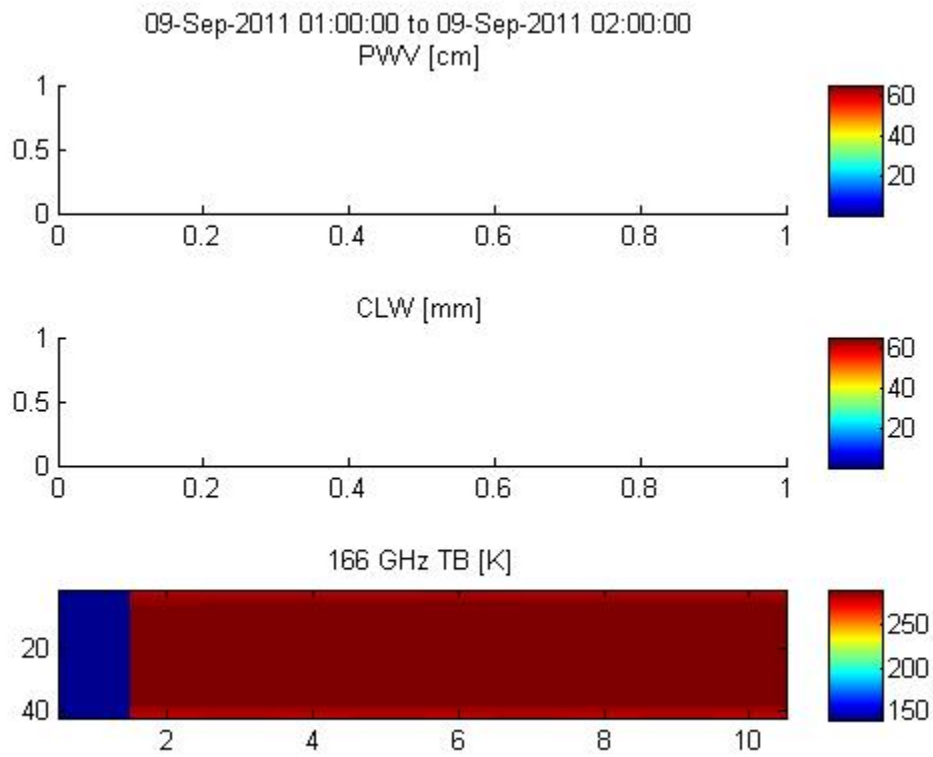
33 total dropsondes co-located

## Retrieval Quality Flag Statistics

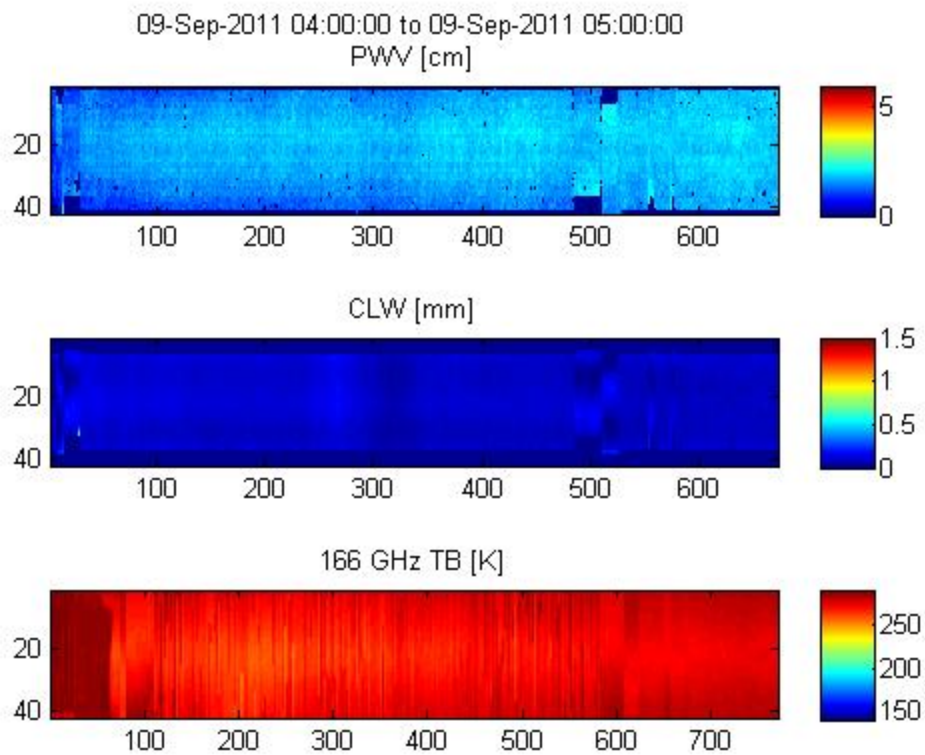
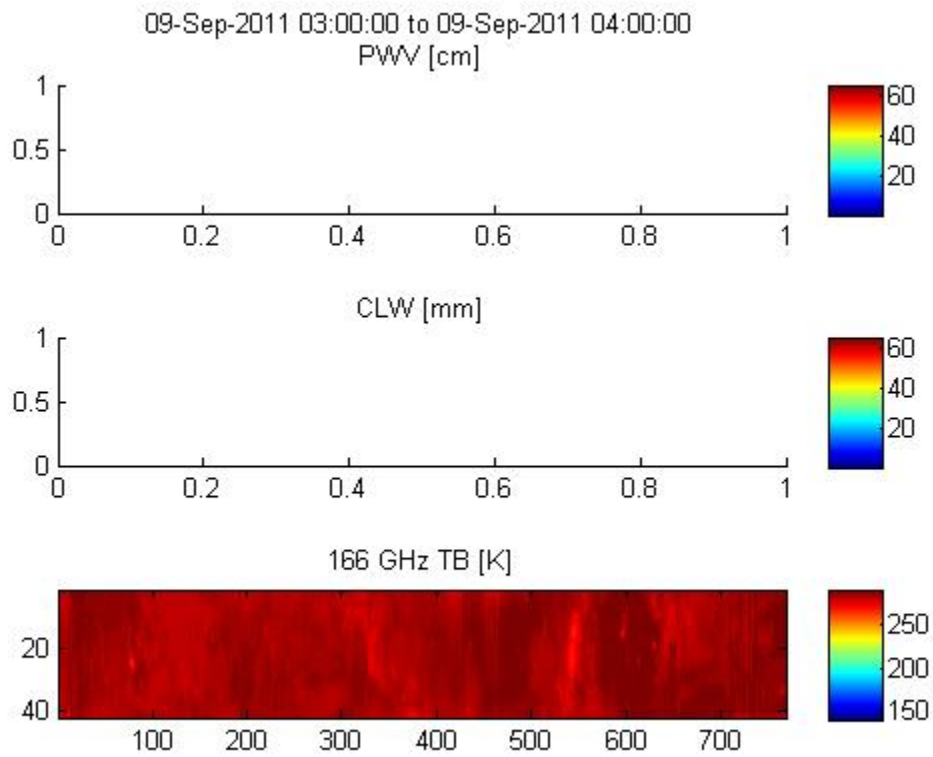
50.9885% with retrieval quality flag of 0  
 18.9402% with retrieval quality flag of 1  
 30.0713% with retrieval quality flag of 2



## Flight Imagery

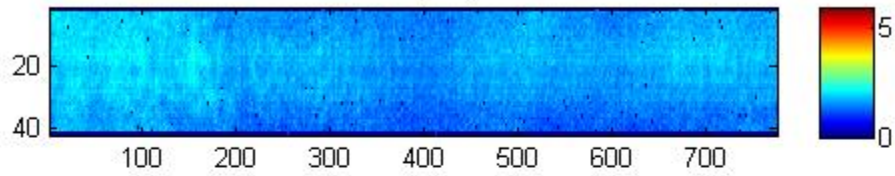




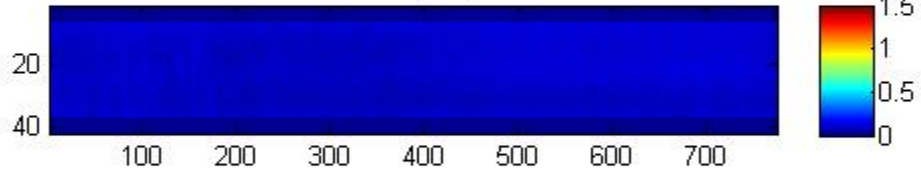


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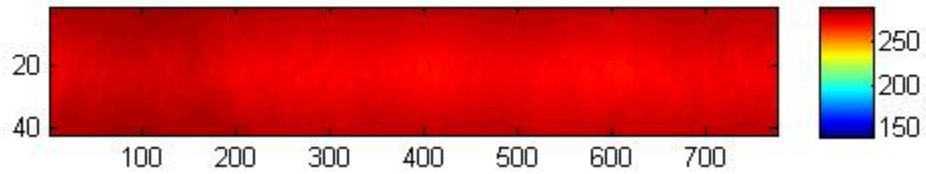
09-Sep-2011 05:00:00 to 09-Sep-2011 06:00:00  
PWV [cm]



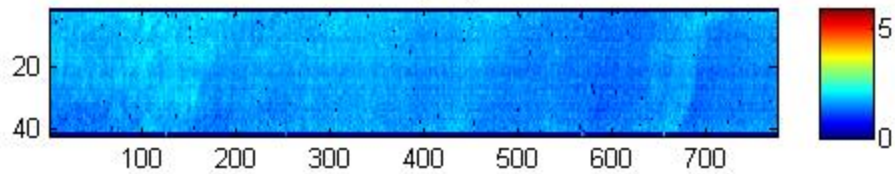
CLW [mm]



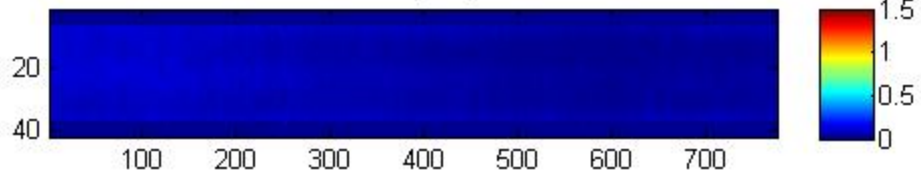
166 GHz TB [K]



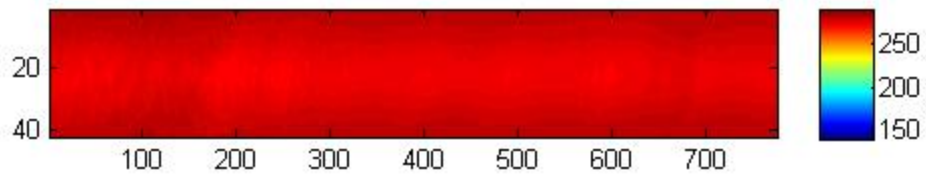
09-Sep-2011 06:00:00 to 09-Sep-2011 07:00:00  
PWV [cm]



CLW [mm]

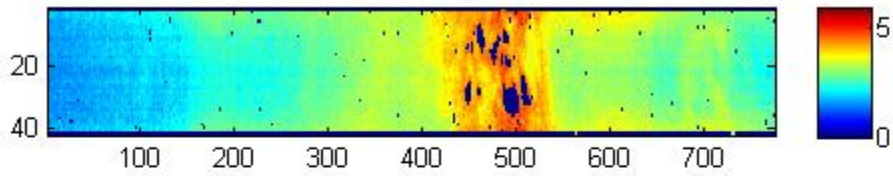


166 GHz TB [K]

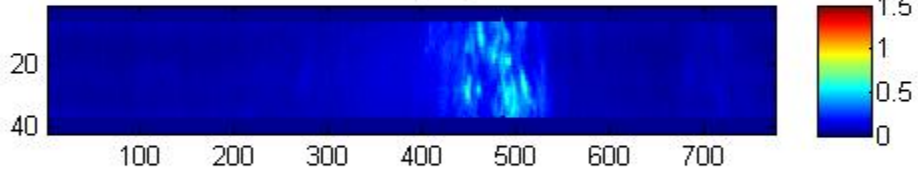


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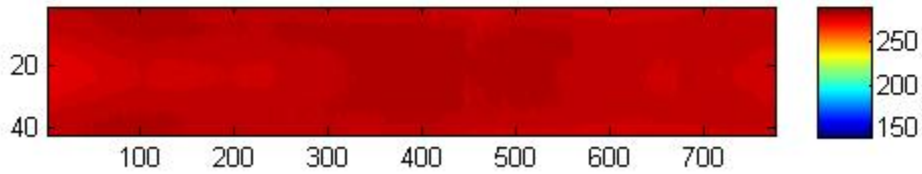
09-Sep-2011 07:00:00 to 09-Sep-2011 08:00:00  
PWV [cm]



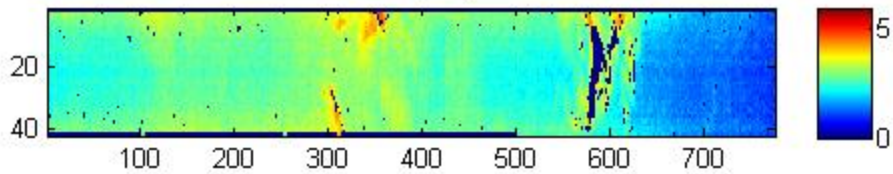
CLW [mm]



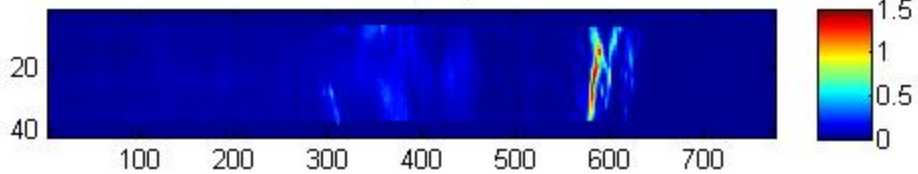
166 GHz TB [K]



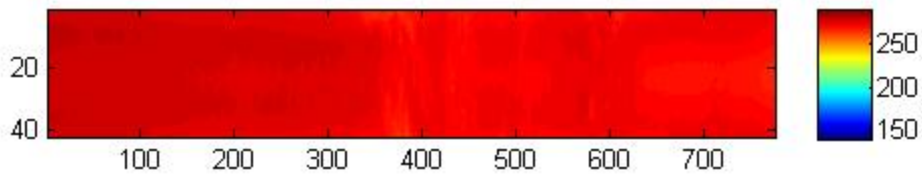
09-Sep-2011 08:00:00 to 09-Sep-2011 09:00:00  
PWV [cm]



CLW [mm]

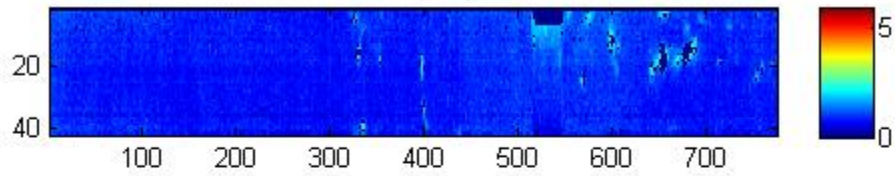


166 GHz TB [K]

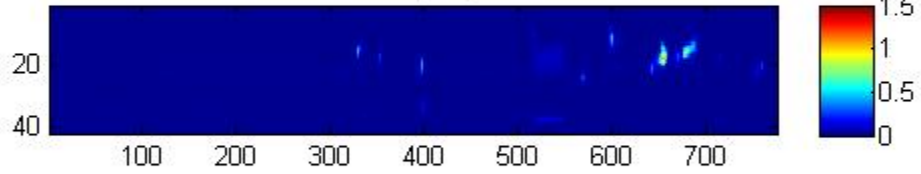


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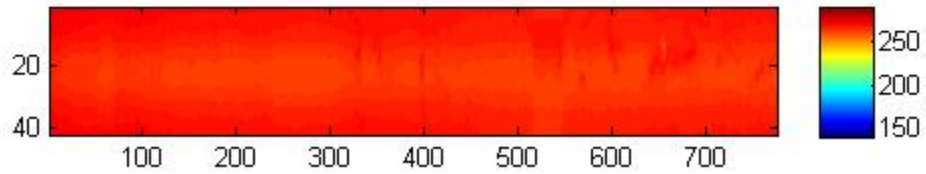
09-Sep-2011 09:00:00 to 09-Sep-2011 10:00:00  
PWV [cm]



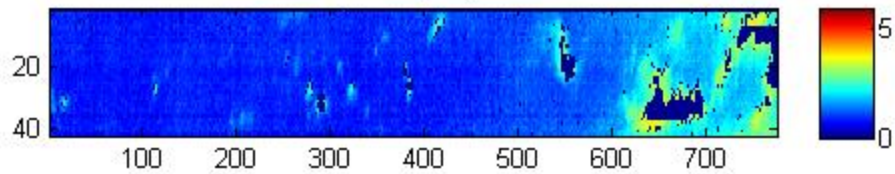
CLW [mm]



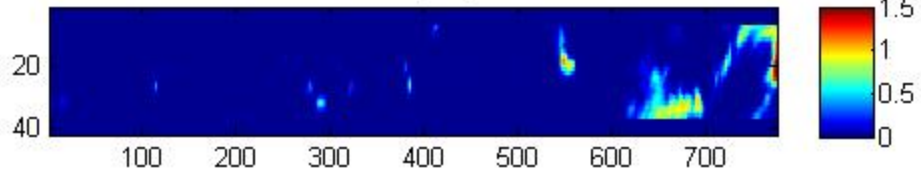
166 GHz TB [K]



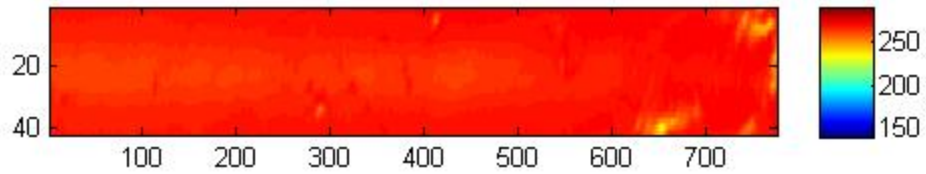
09-Sep-2011 10:00:00 to 09-Sep-2011 11:00:00  
PWV [cm]



CLW [mm]

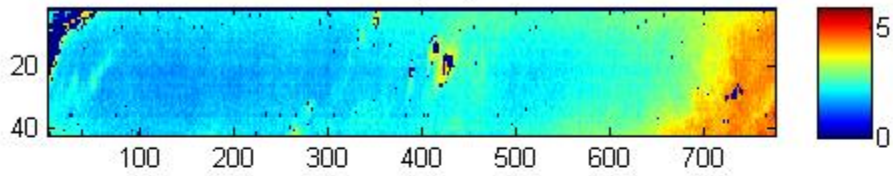


166 GHz TB [K]

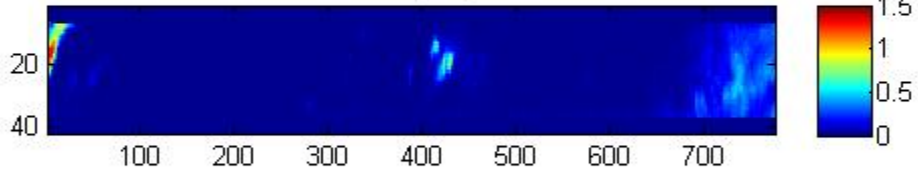


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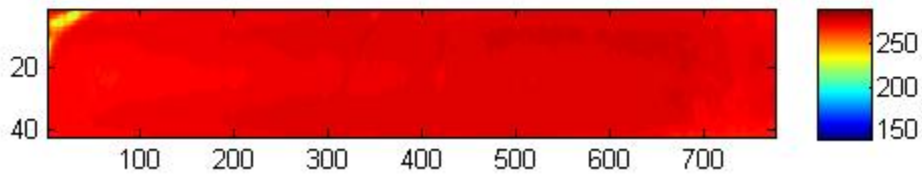
09-Sep-2011 11:00:00 to 09-Sep-2011 12:00:00  
PWV [cm]



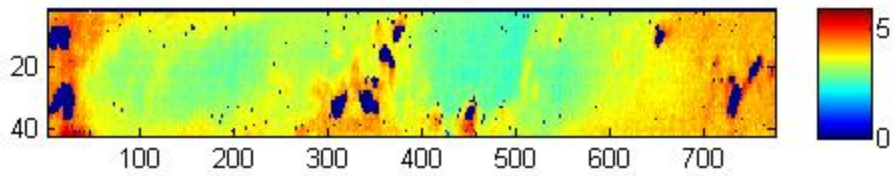
CLW [mm]



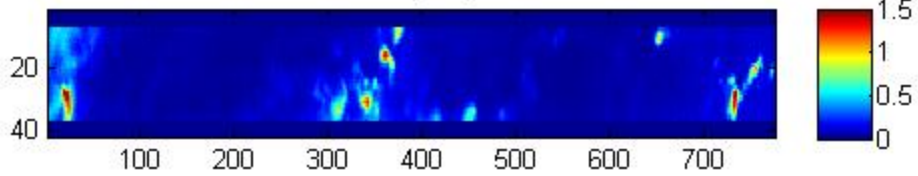
166 GHz TB [K]



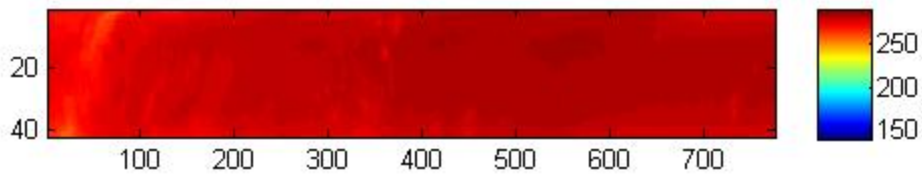
09-Sep-2011 12:00:00 to 09-Sep-2011 13:00:00  
PWV [cm]



CLW [mm]

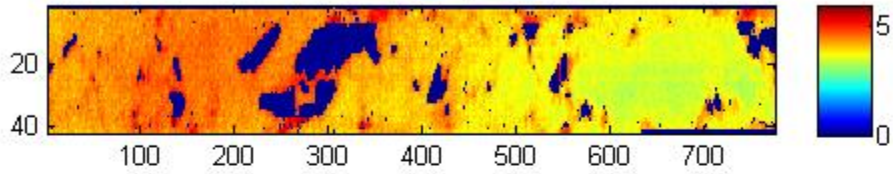


166 GHz TB [K]

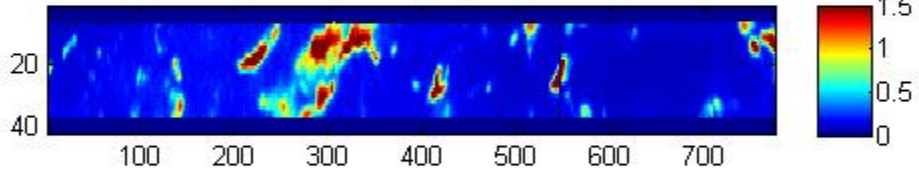




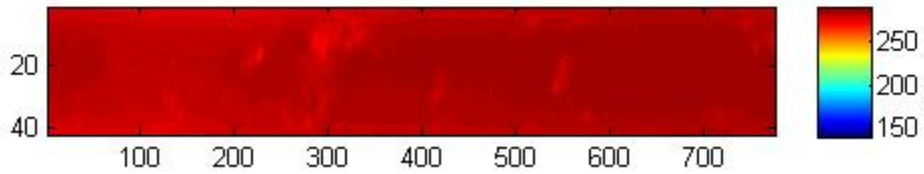
09-Sep-2011 13:00:00 to 09-Sep-2011 14:00:00  
PWV [cm]



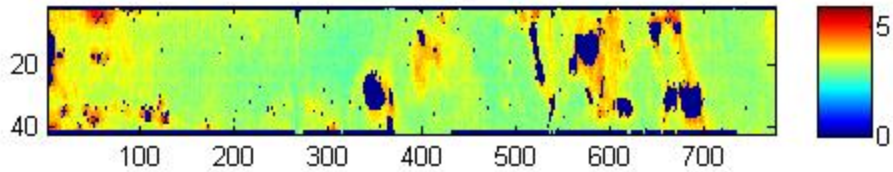
CLW [mm]



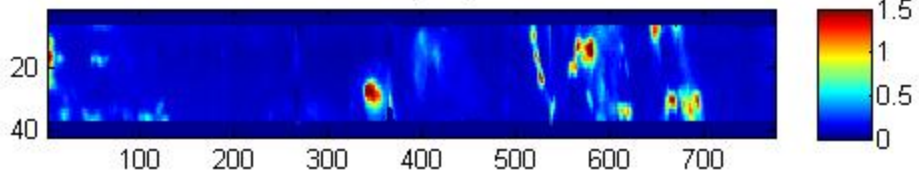
166 GHz TB [K]



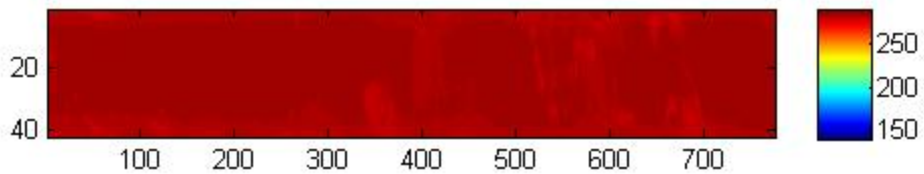
09-Sep-2011 14:00:00 to 09-Sep-2011 15:00:00  
PWV [cm]



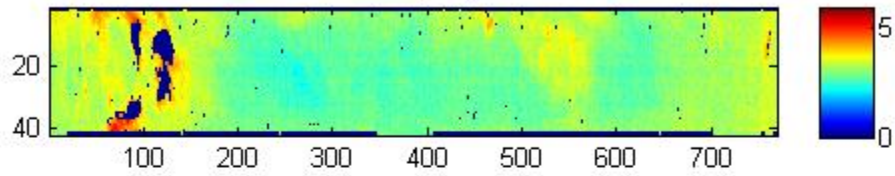
CLW [mm]



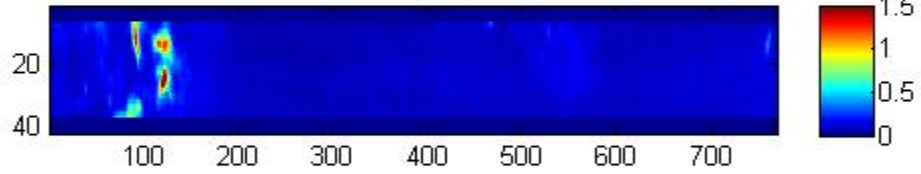
166 GHz TB [K]



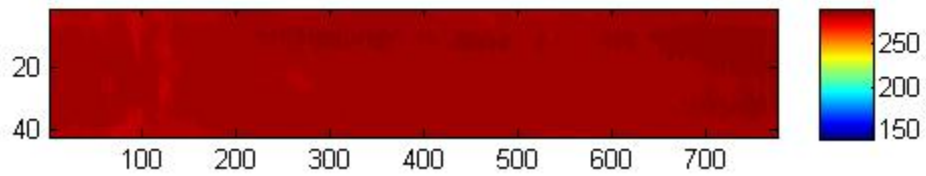
09-Sep-2011 15:00:00 to 09-Sep-2011 16:00:00  
PWV [cm]



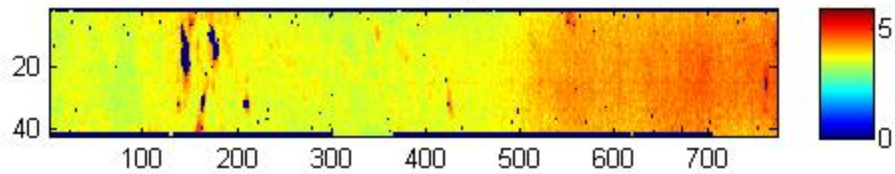
CLW [mm]



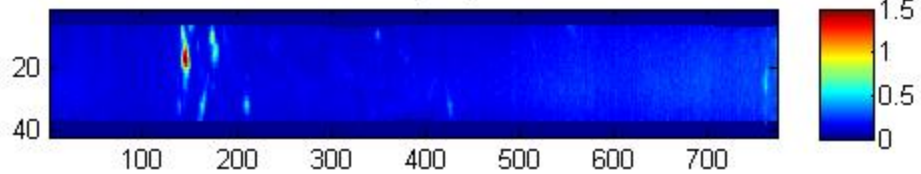
166 GHz TB [K]



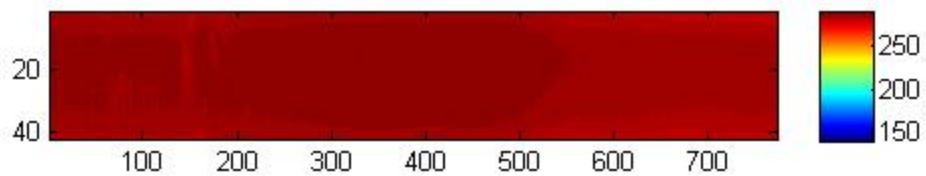
09-Sep-2011 16:00:00 to 09-Sep-2011 17:00:00  
PWV [cm]



CLW [mm]



166 GHz TB [K]

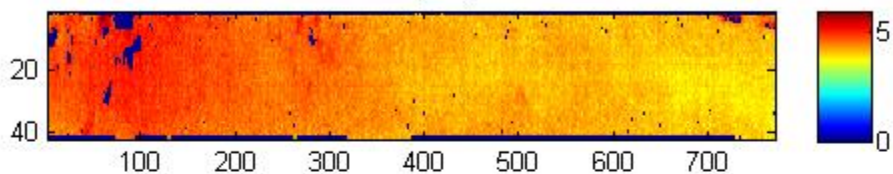




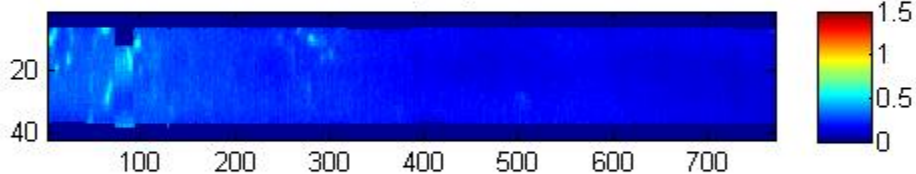
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09-Sep-2011 17:00:00 to 09-Sep-2011 18:00:00

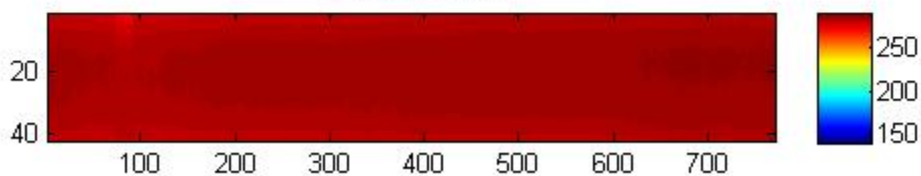
PWV [cm]



CLW [mm]

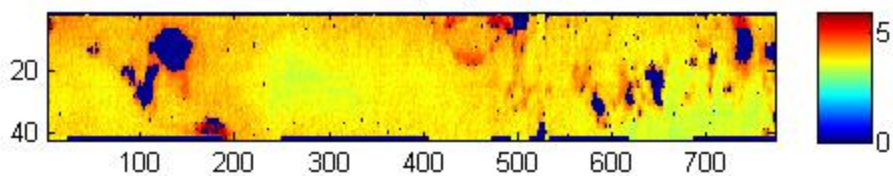


166 GHz TB [K]

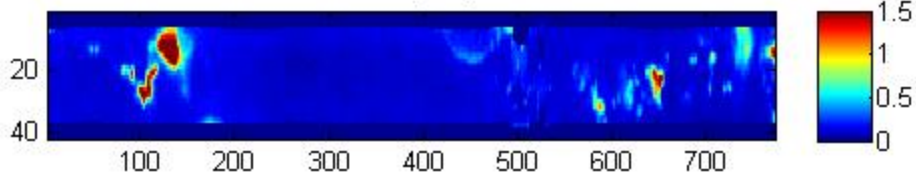


09-Sep-2011 18:00:00 to 09-Sep-2011 19:00:00

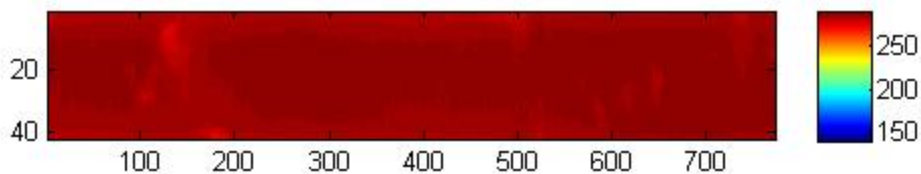
PWV [cm]



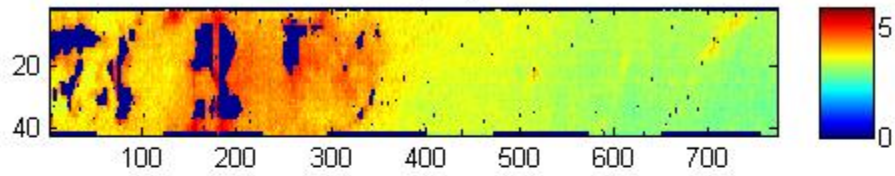
CLW [mm]



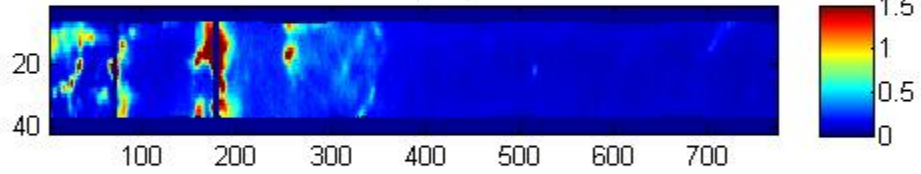
166 GHz TB [K]



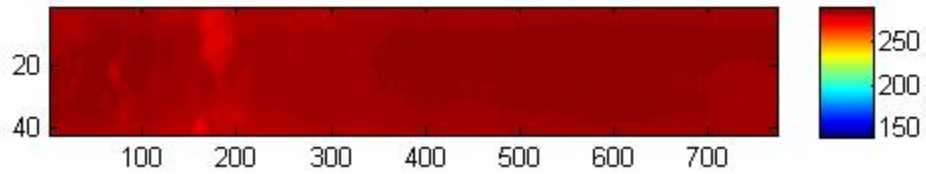
09-Sep-2011 19:00:00 to 09-Sep-2011 20:00:00  
PWV [cm]



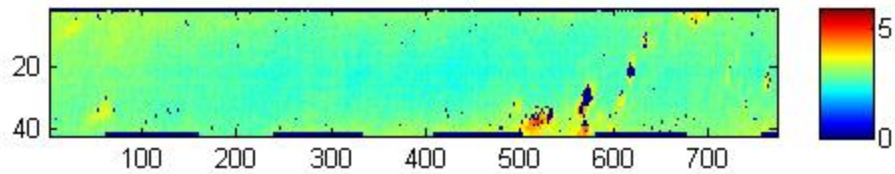
CLW [mm]



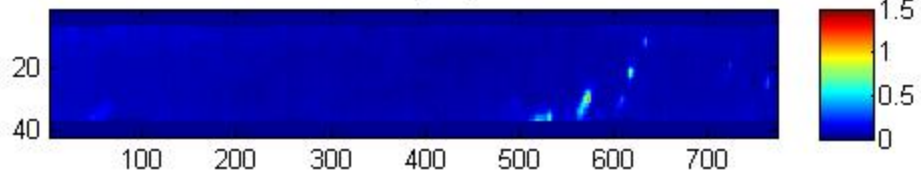
166 GHz TB [K]



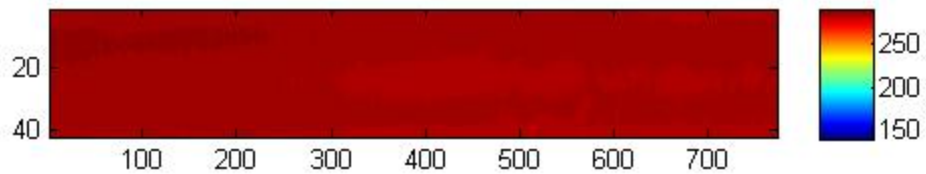
09-Sep-2011 20:00:00 to 09-Sep-2011 21:00:00  
PWV [cm]



CLW [mm]

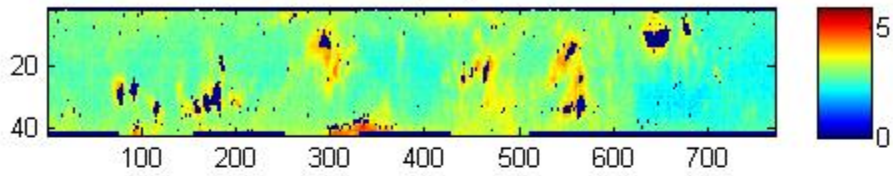


166 GHz TB [K]

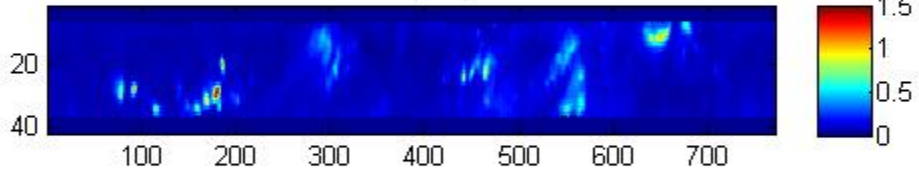


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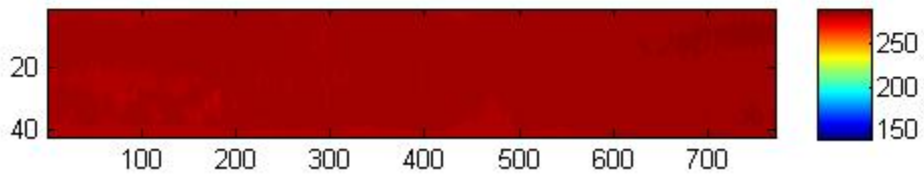
09-Sep-2011 21:00:00 to 09-Sep-2011 22:00:00  
PWV [cm]



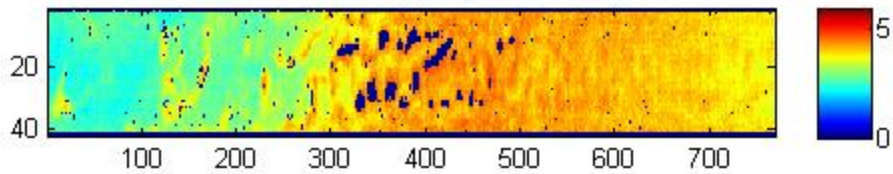
CLW [mm]



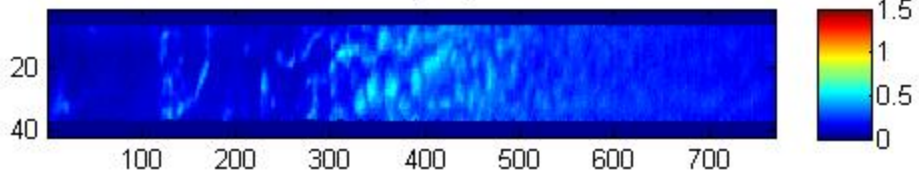
166 GHz TB [K]



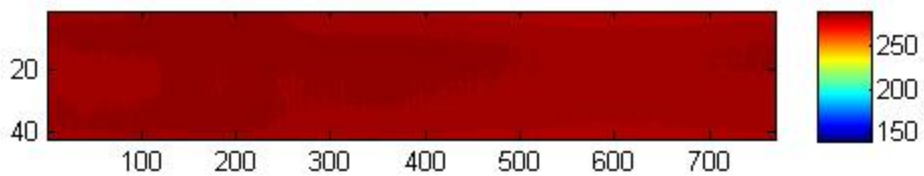
09-Sep-2011 22:00:00 to 09-Sep-2011 23:00:00  
PWV [cm]



CLW [mm]

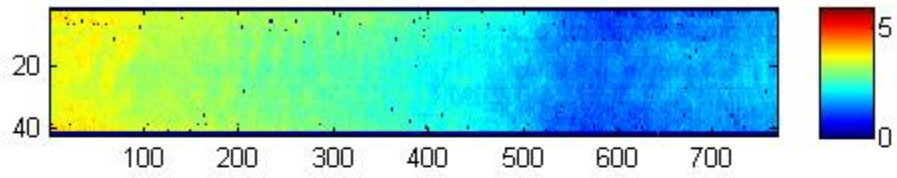


166 GHz TB [K]

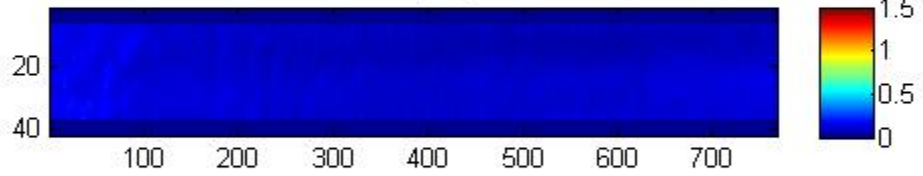


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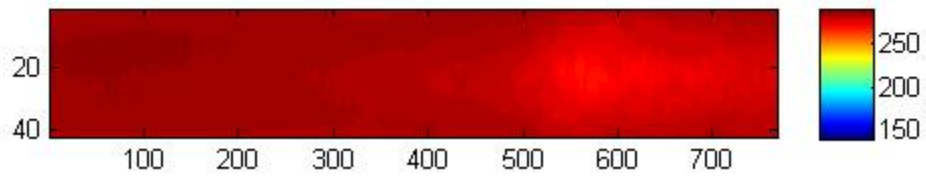
09-Sep-2011 23:00:00 to 10-Sep-2011  
PWV [cm]



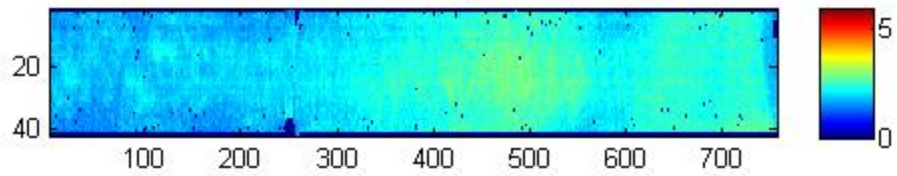
CLW [mm]



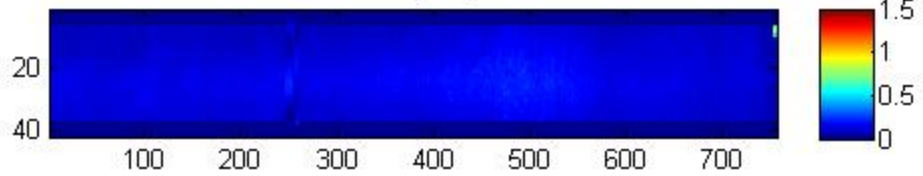
166 GHz TB [K]



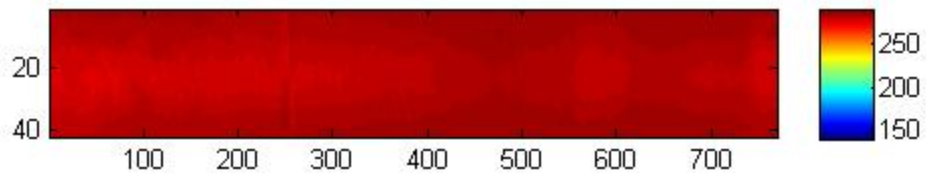
10-Sep-2011 to 10-Sep-2011 01:00:00  
PWV [cm]



CLW [mm]



166 GHz TB [K]



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