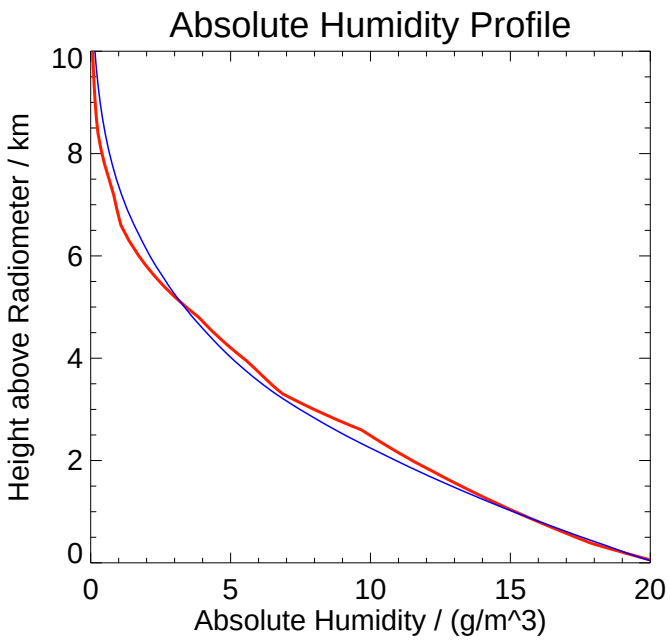
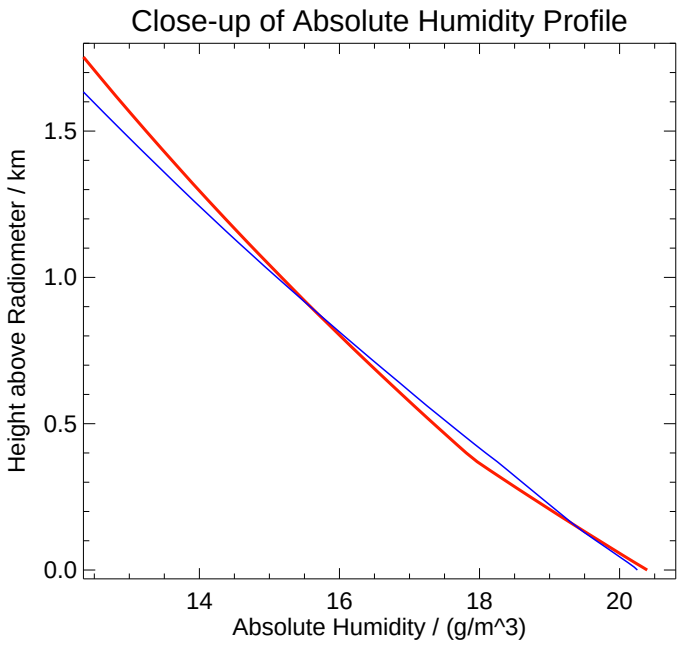
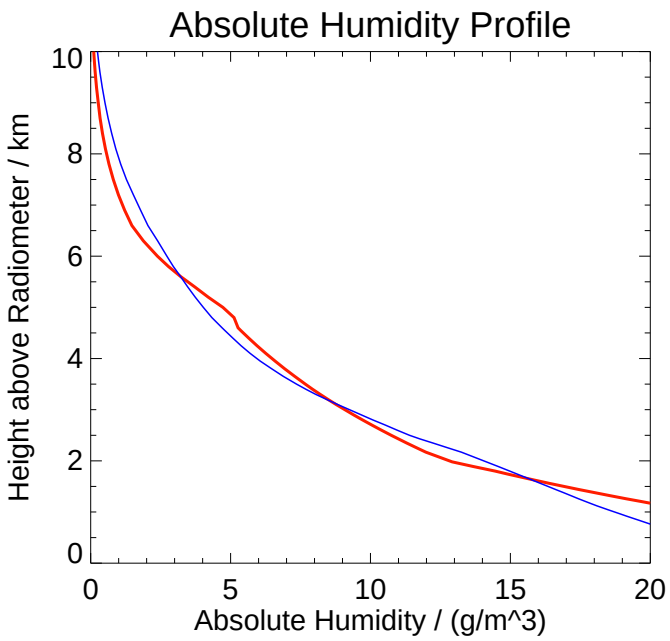

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
14
16
18
20


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
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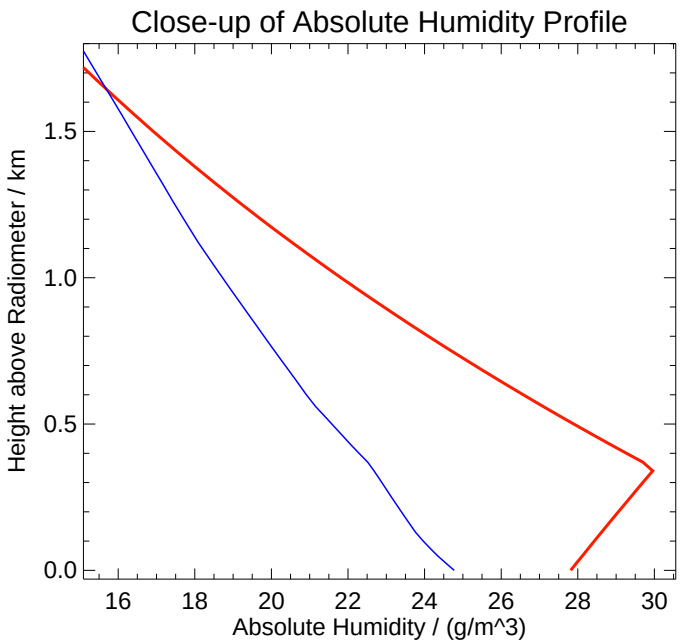
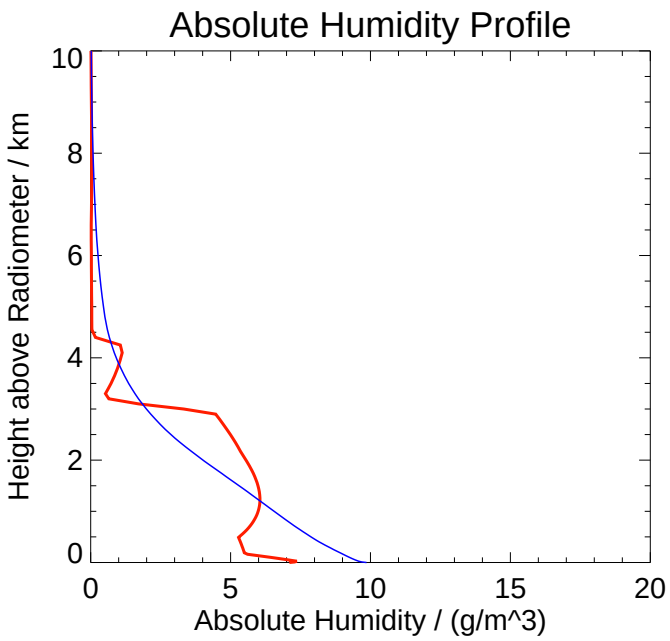
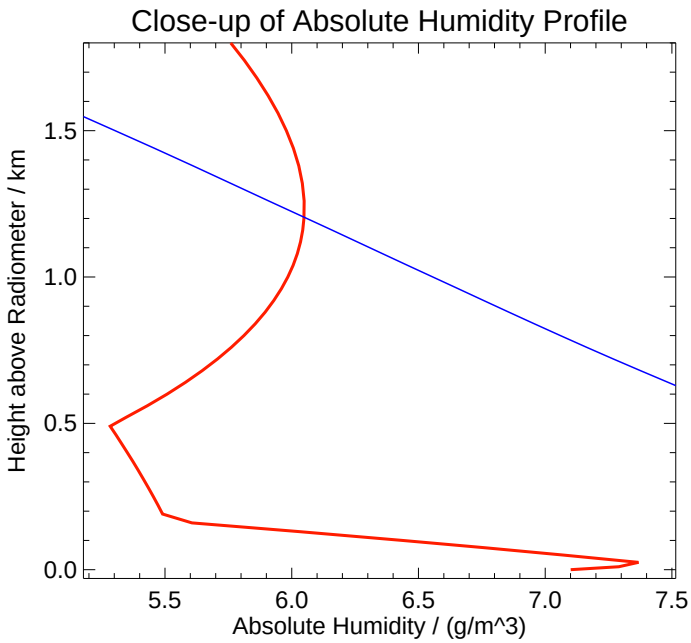
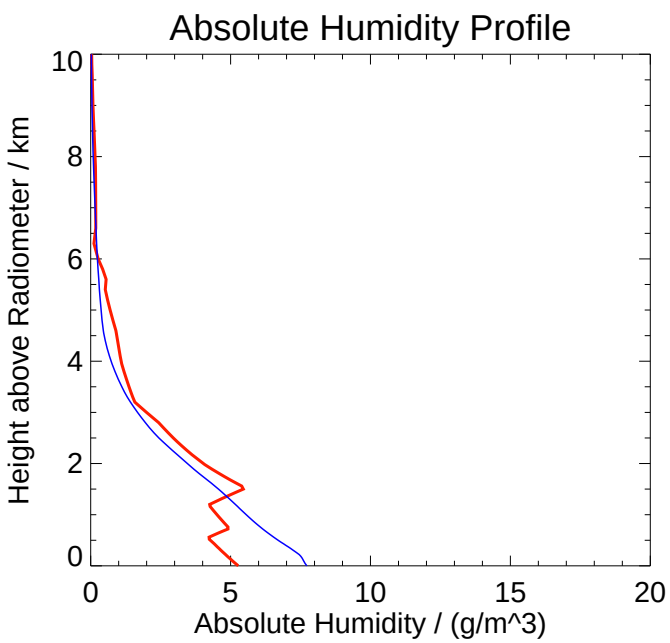

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
16
18
20
22
24
26
28
30


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
5.5
6.0
6.5
7.0
7.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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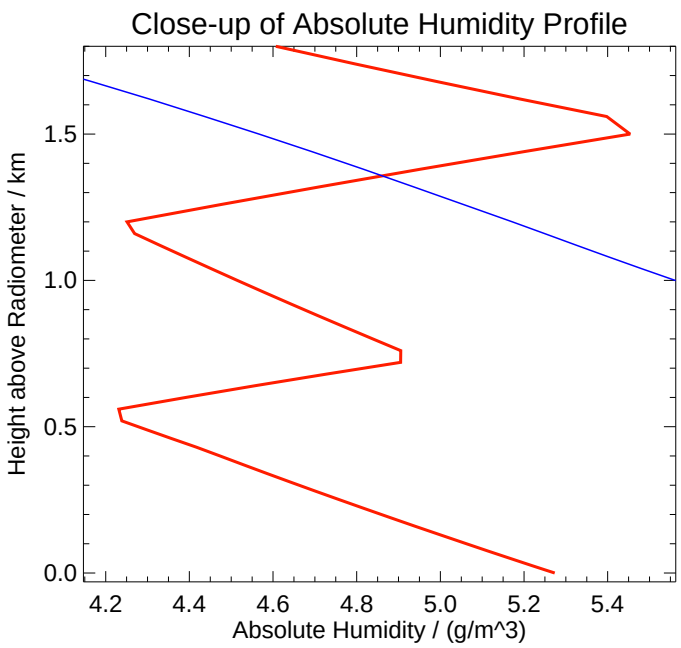
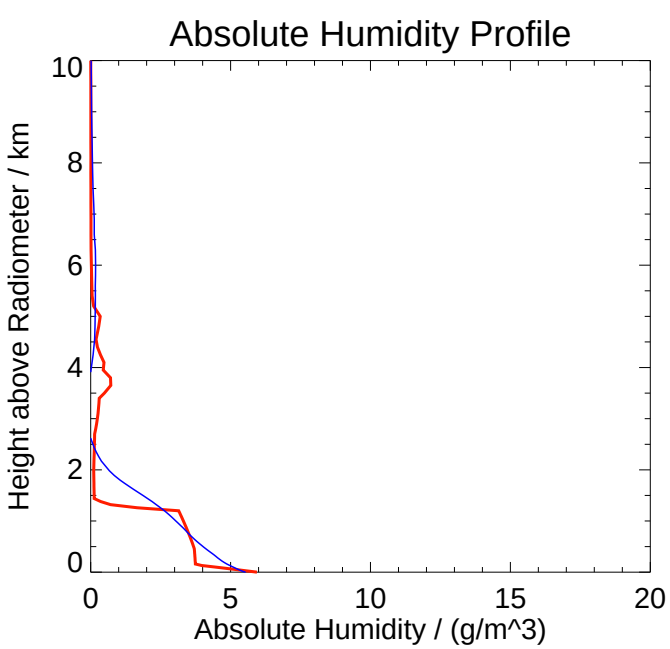

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4.2
4.4
4.6
4.8
5.0
5.2
5.4


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
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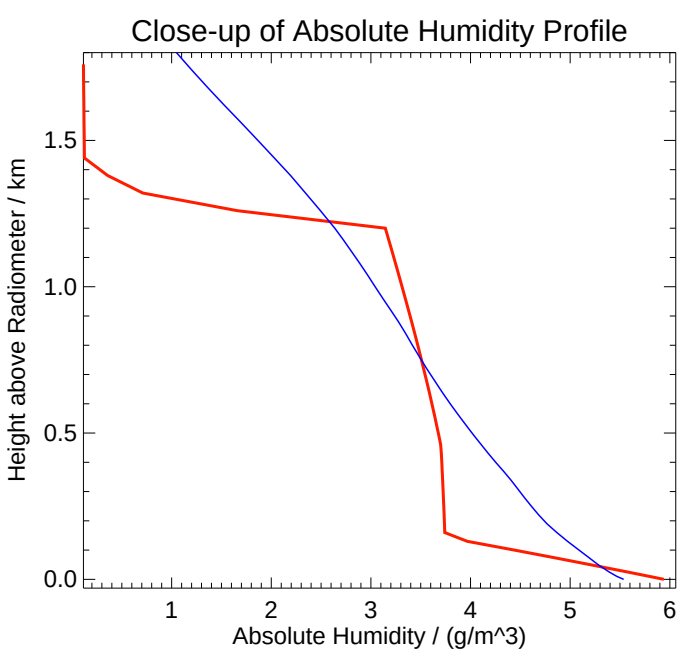
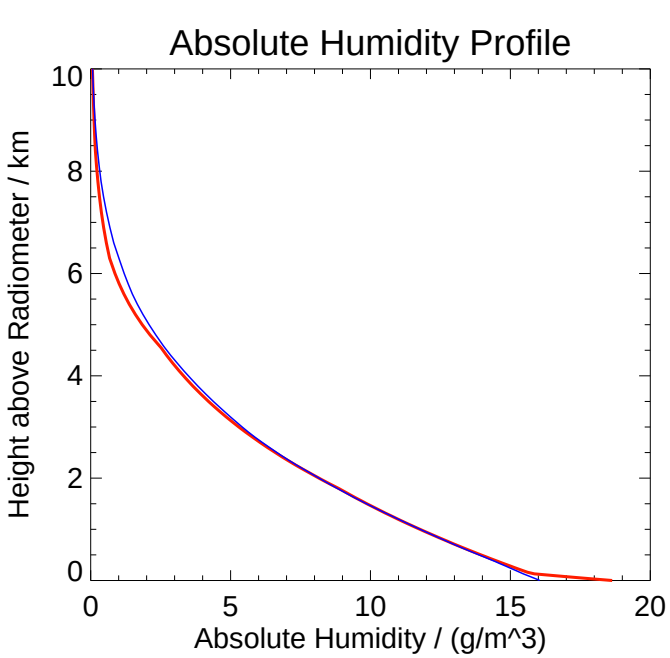
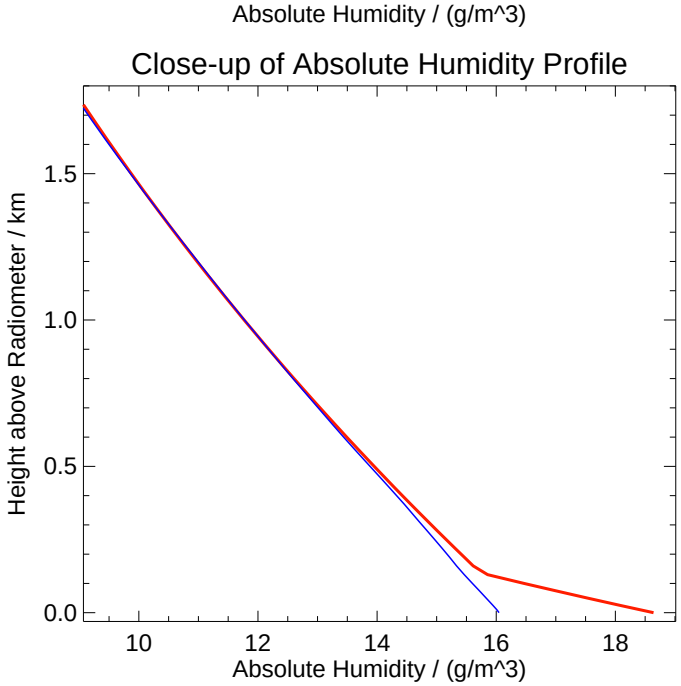
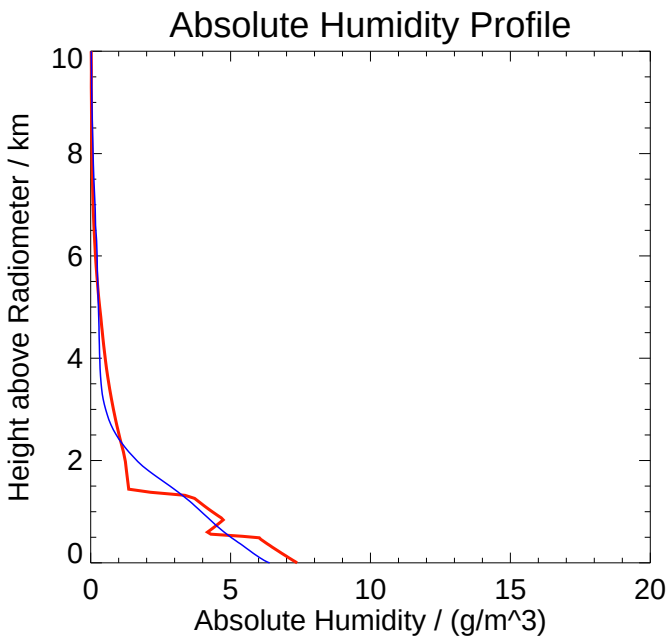
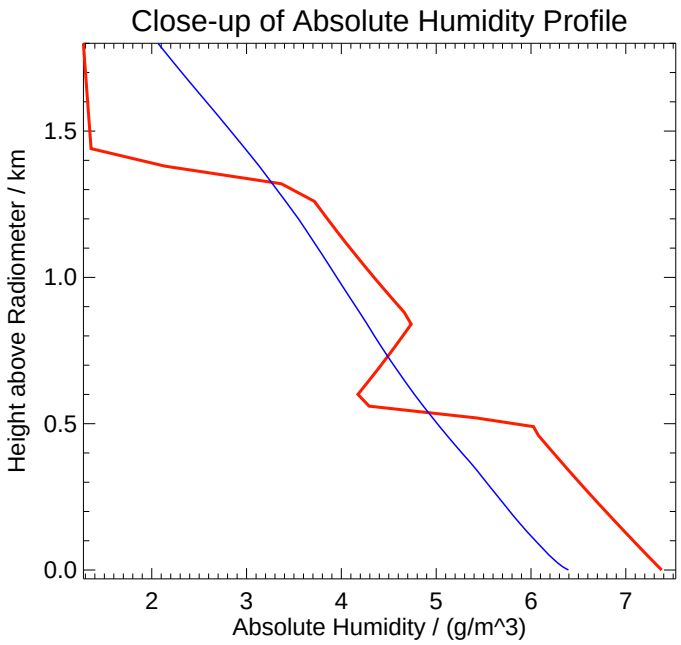
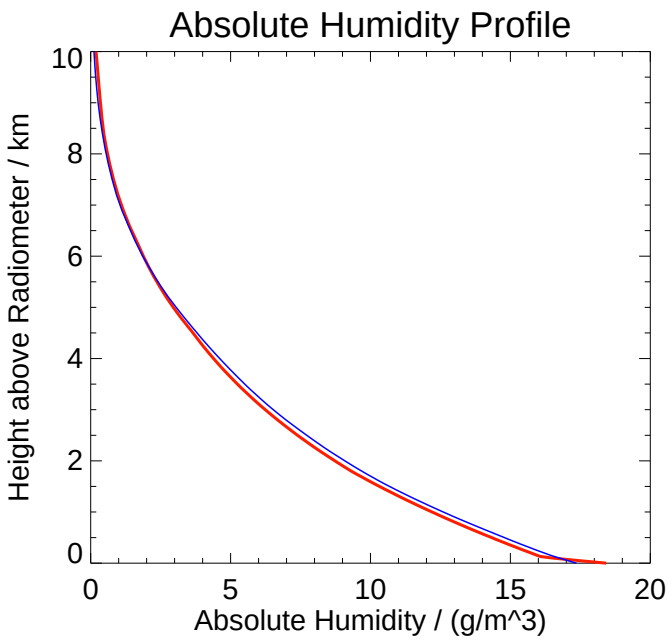

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
1
2
3
4
5
6

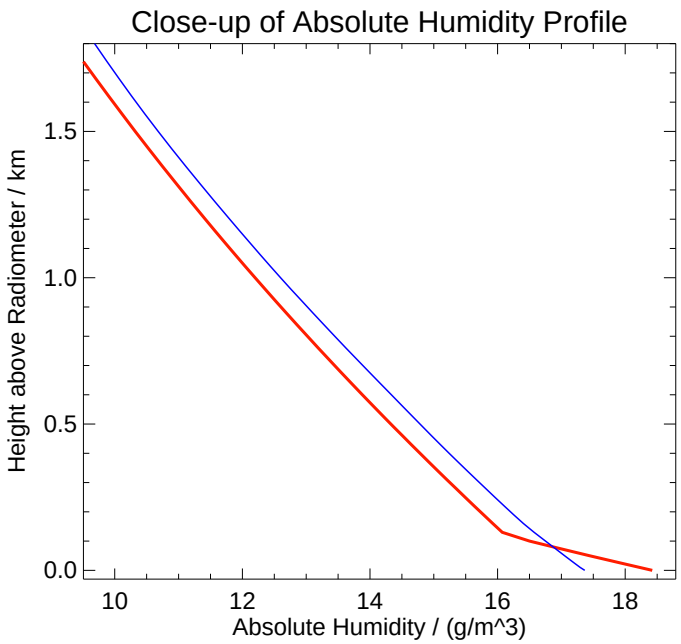

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

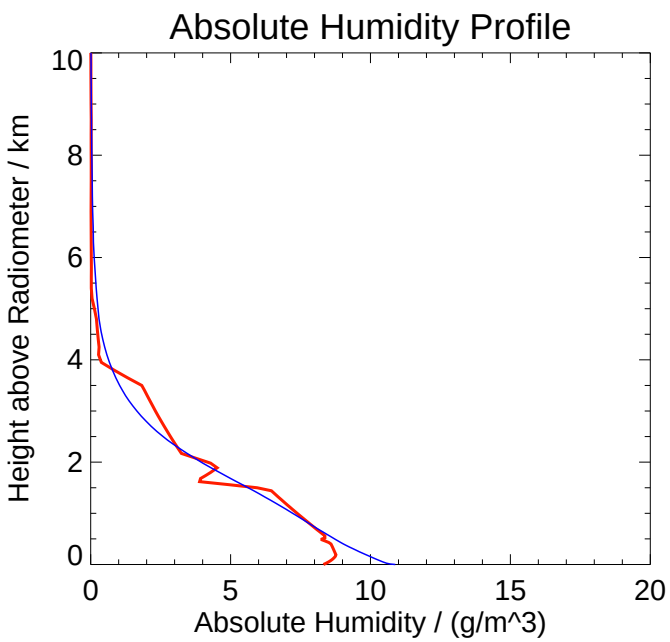

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2
3
4
5
6
7


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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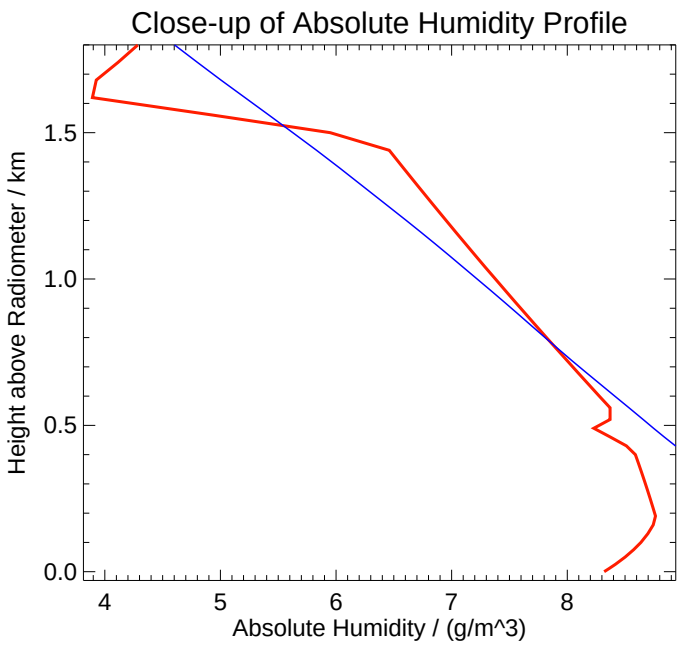
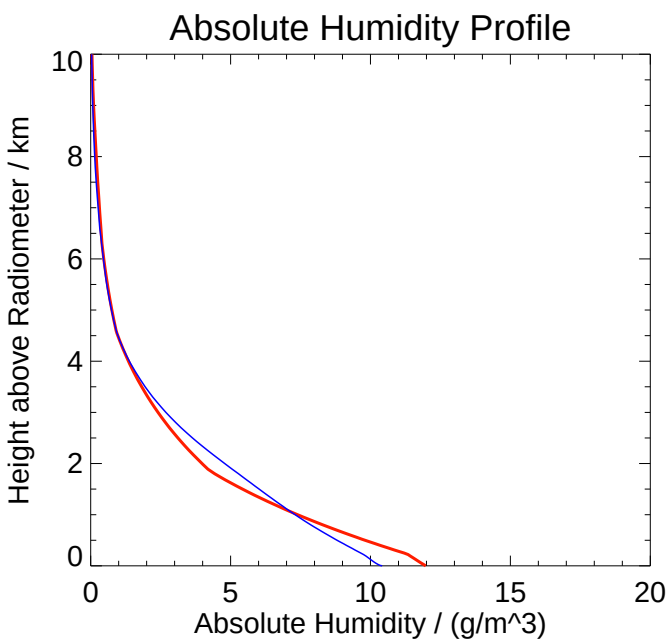

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4
5
6
7
8


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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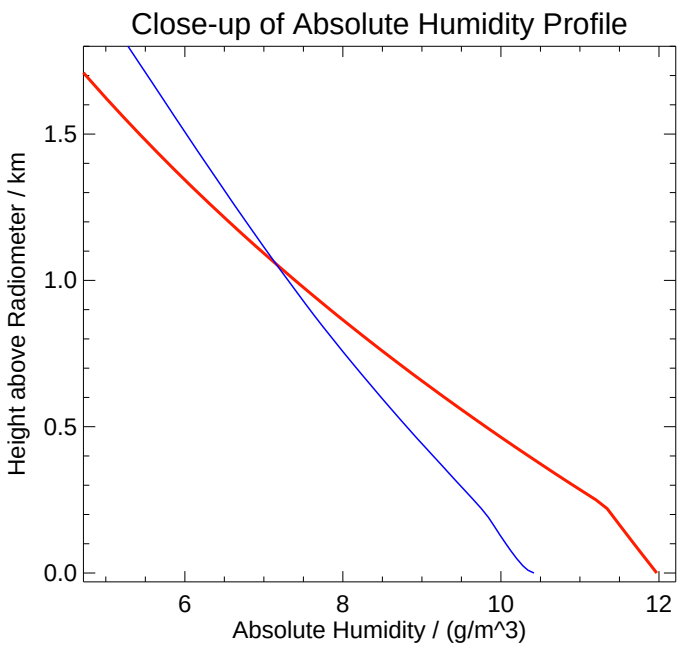
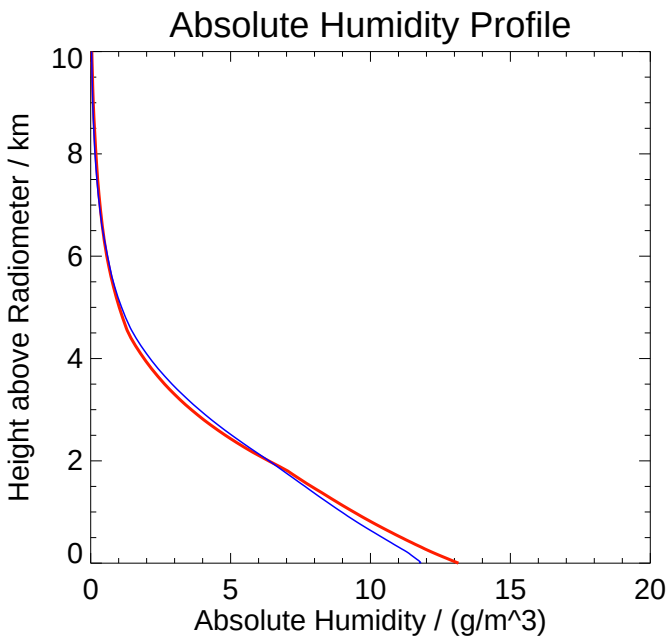

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
8
10
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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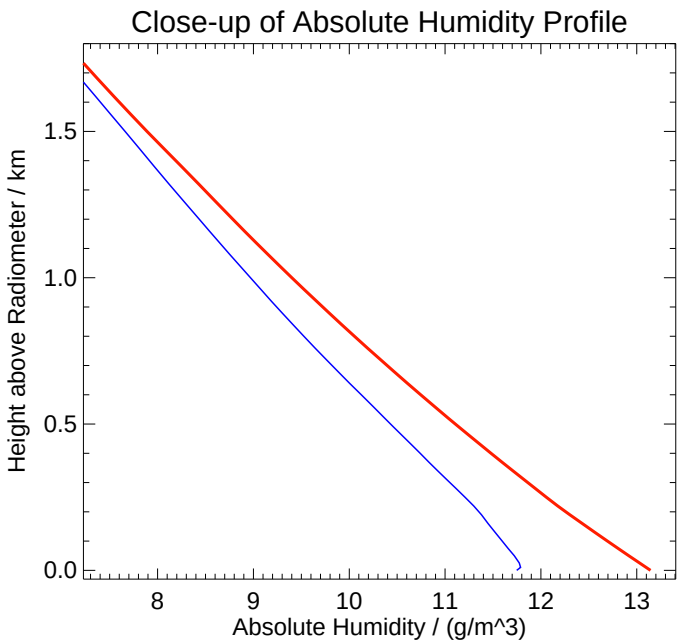
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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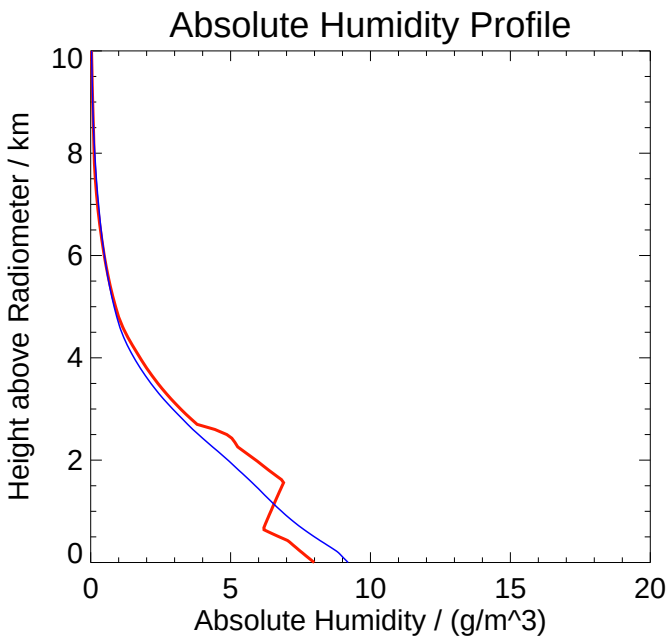
0.5
1.0
1.5
8
9
10
11
12
13


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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5
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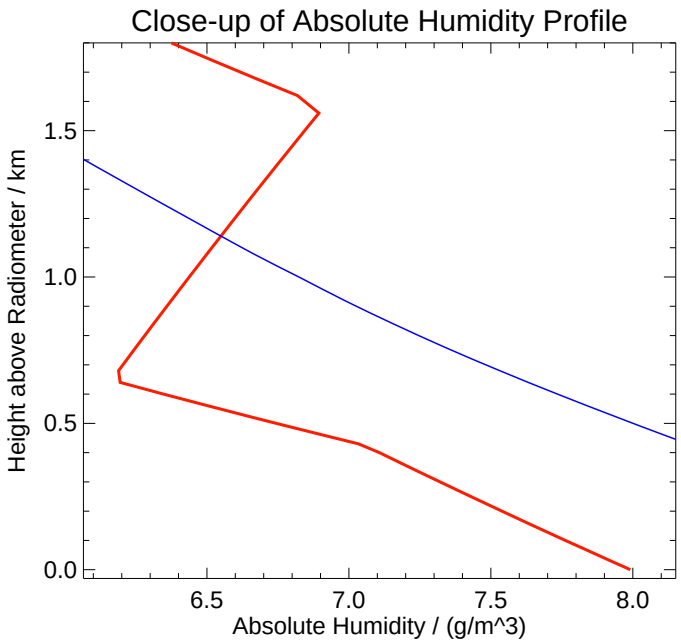
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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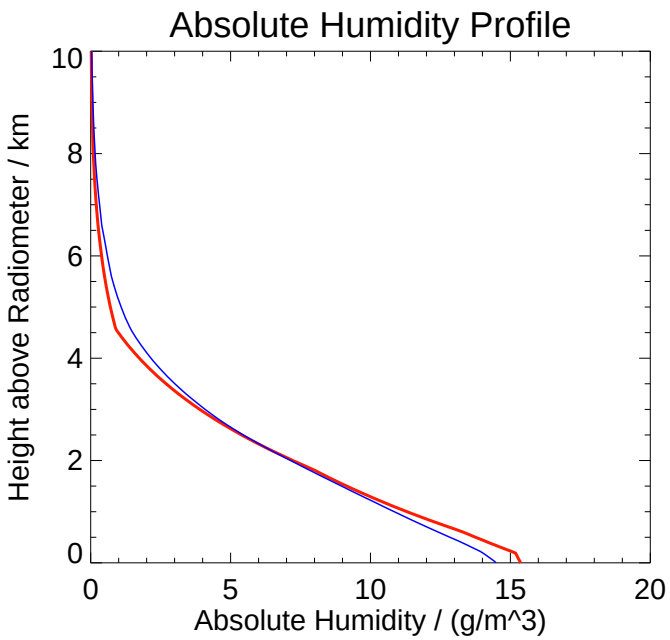
0.5
1.0
1.5
6.5
7.0
7.5
8.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
8
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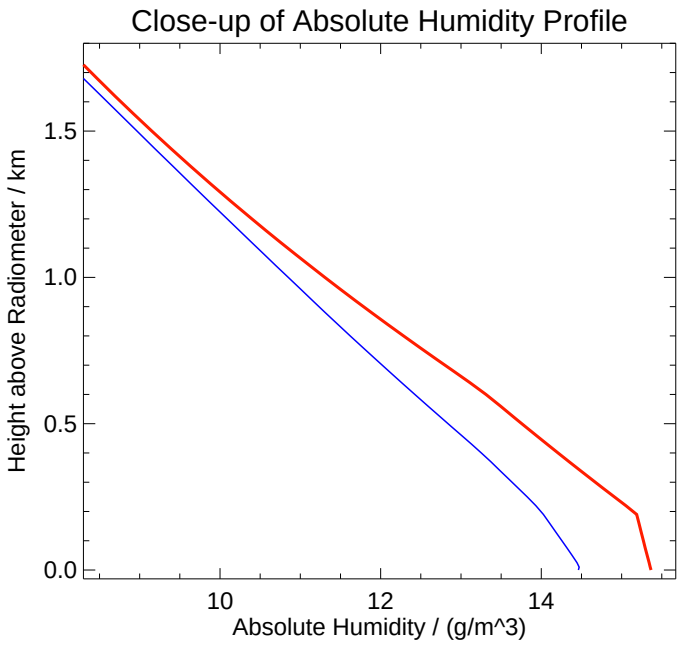
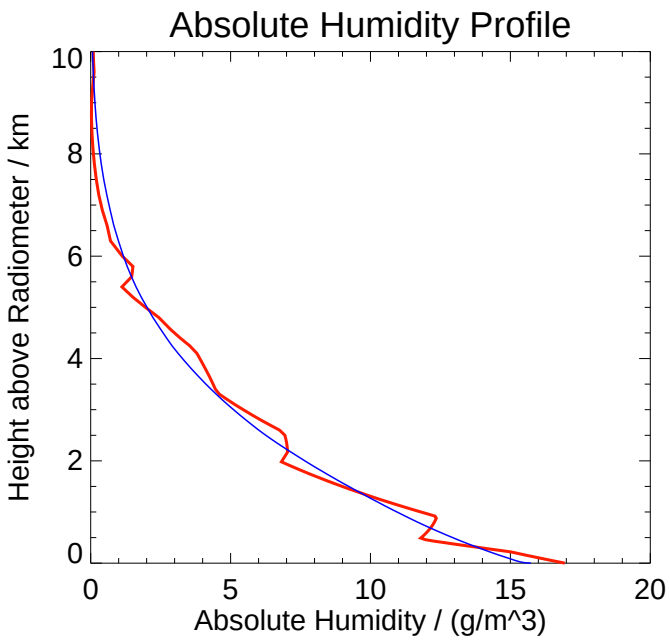

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
5
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15
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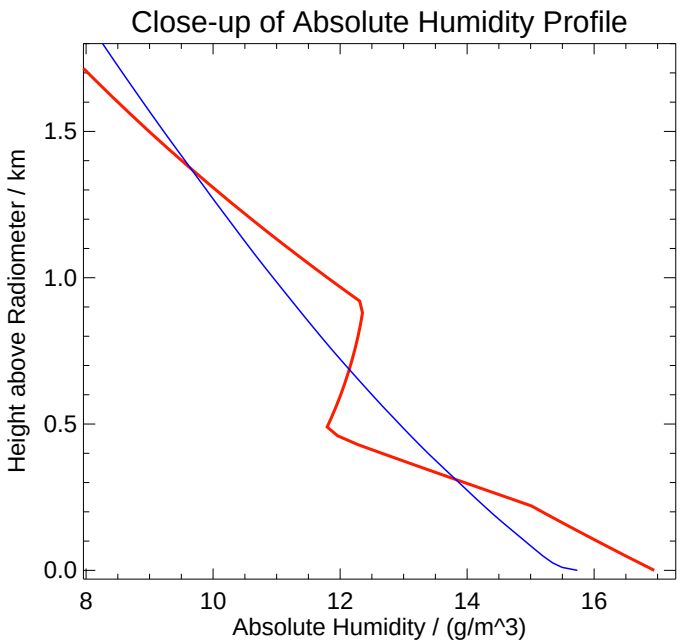
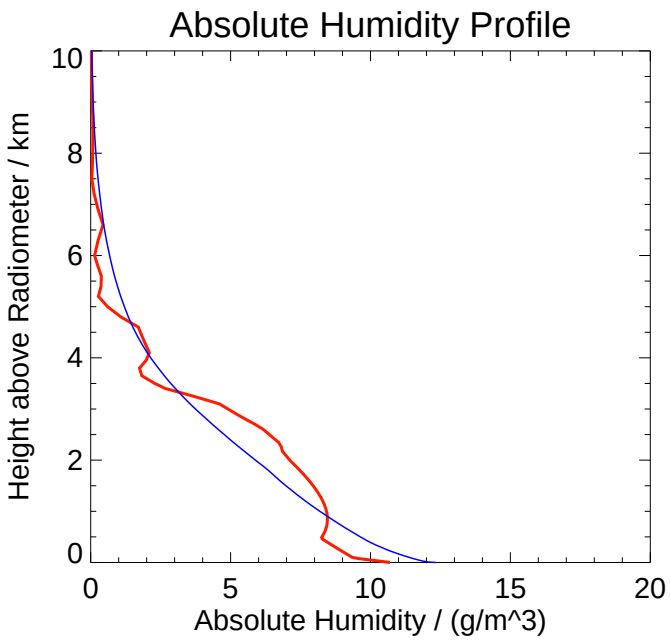

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8
10
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
5
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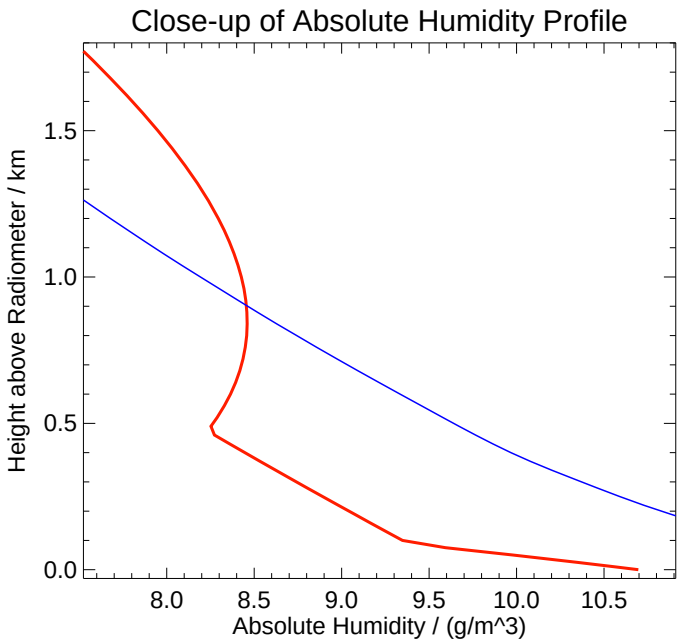
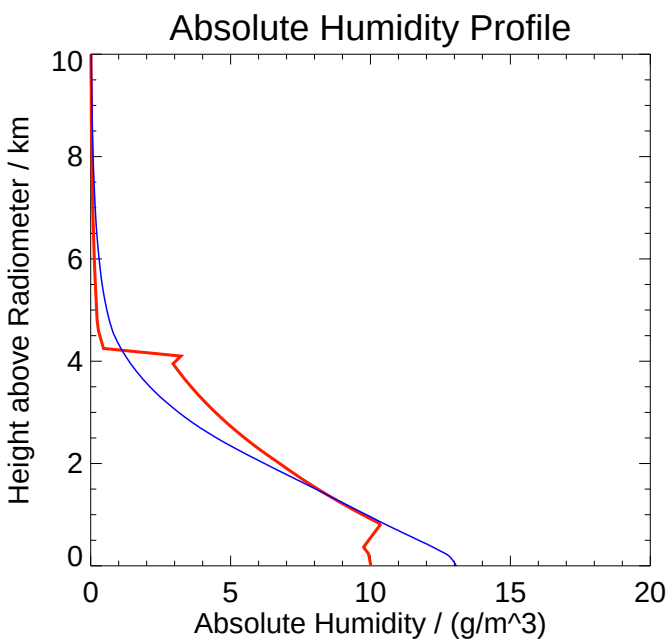
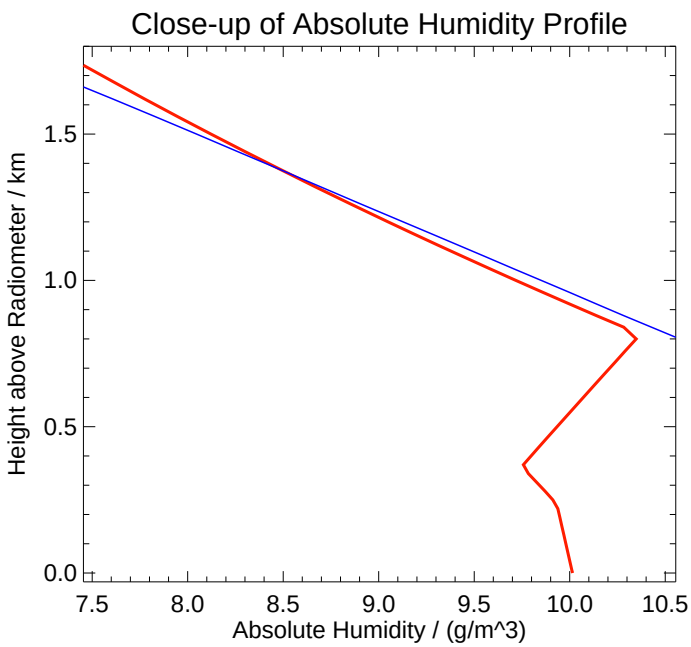
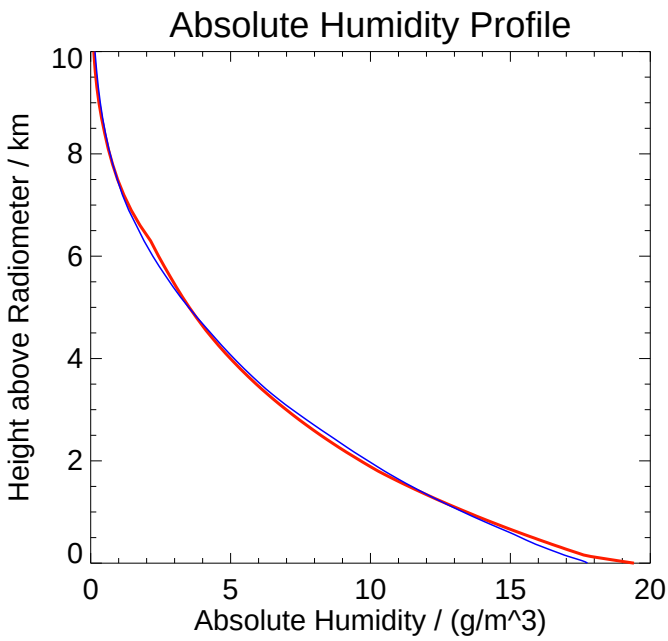
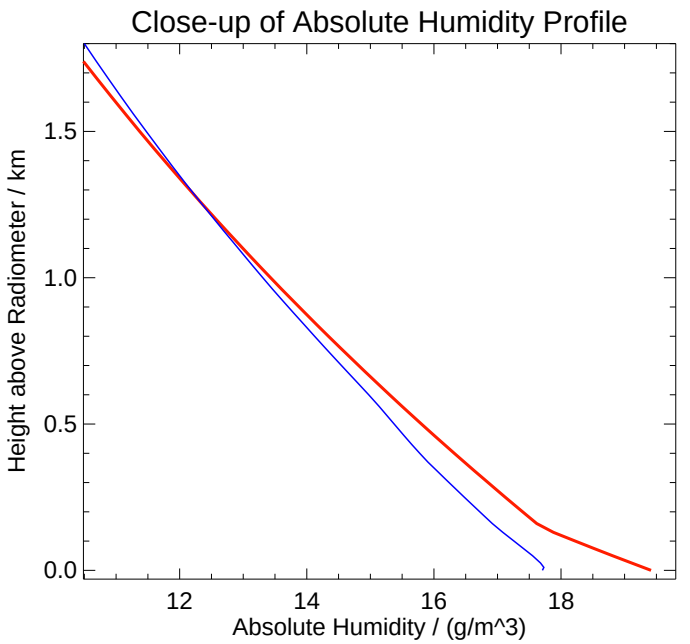
15
20

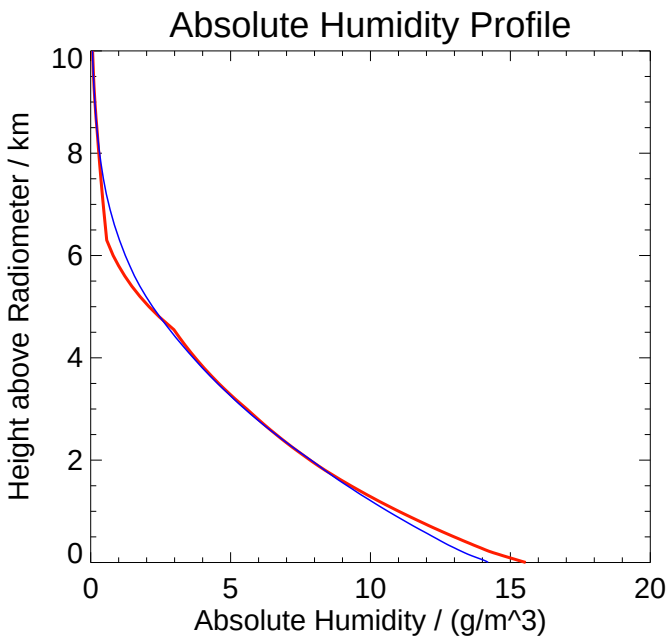

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8.0
8.5
9.0
9.5
10.0
10.5

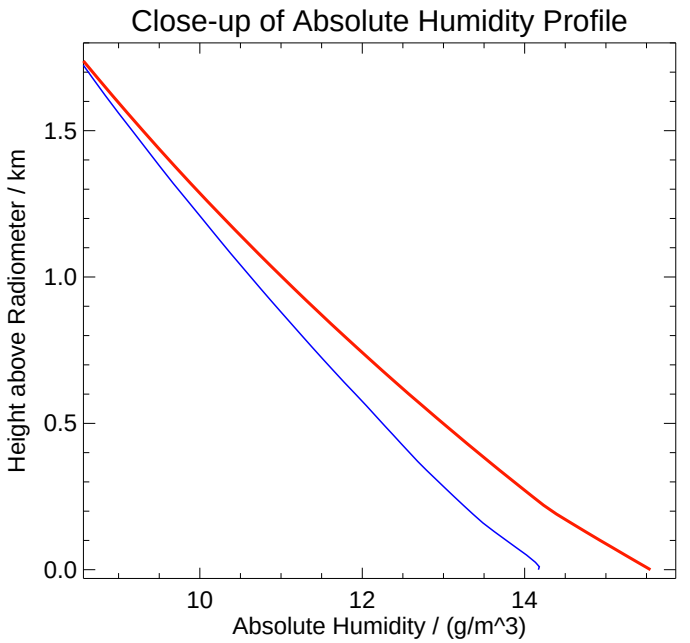

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

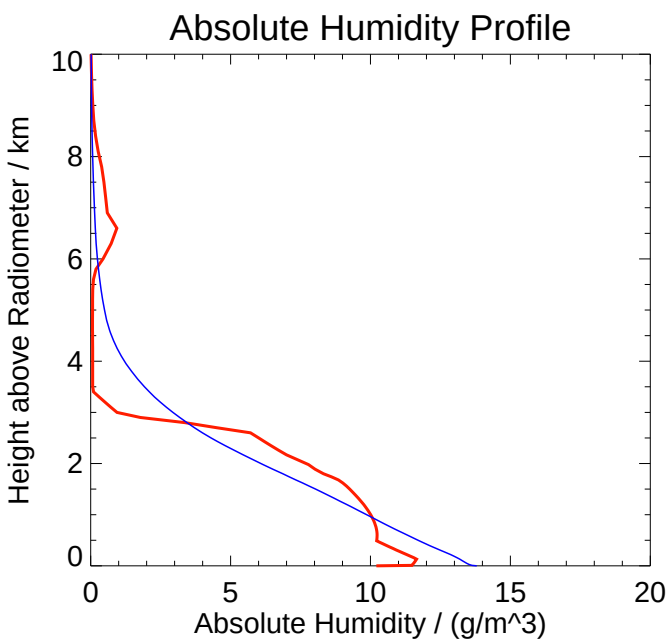

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
7.5
8.0
8.5
9.0
9.5
10.0
10.5

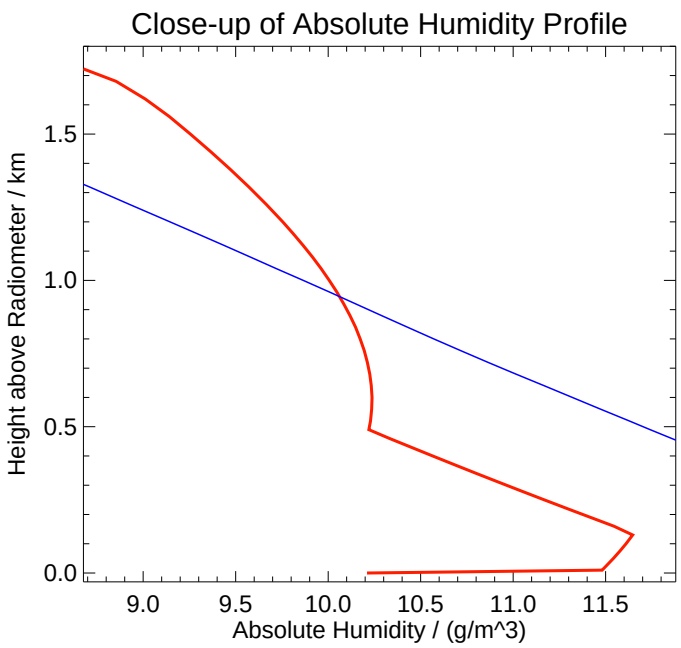

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

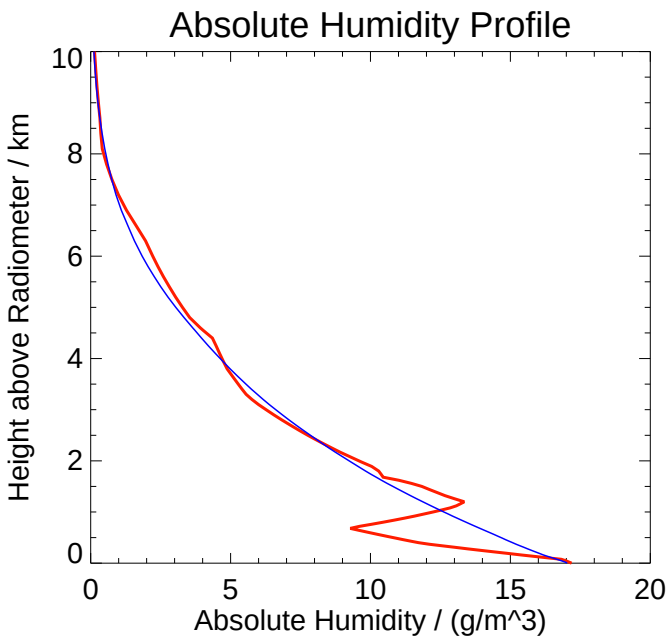

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18

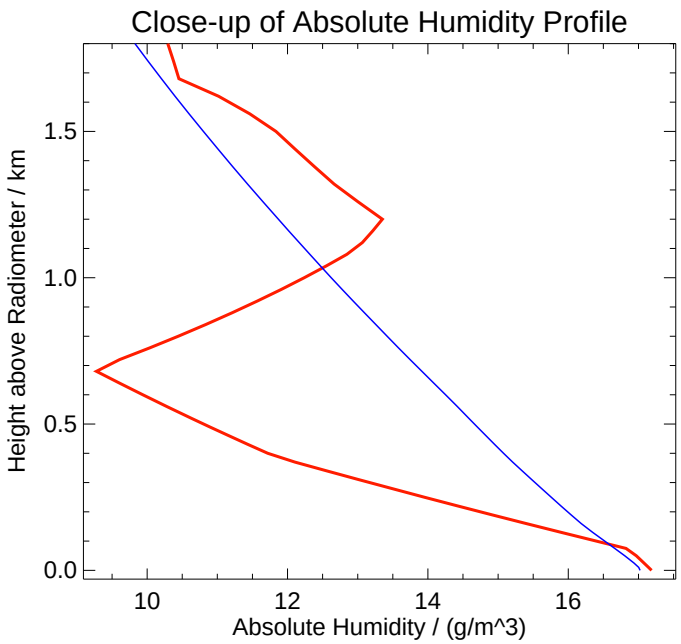

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

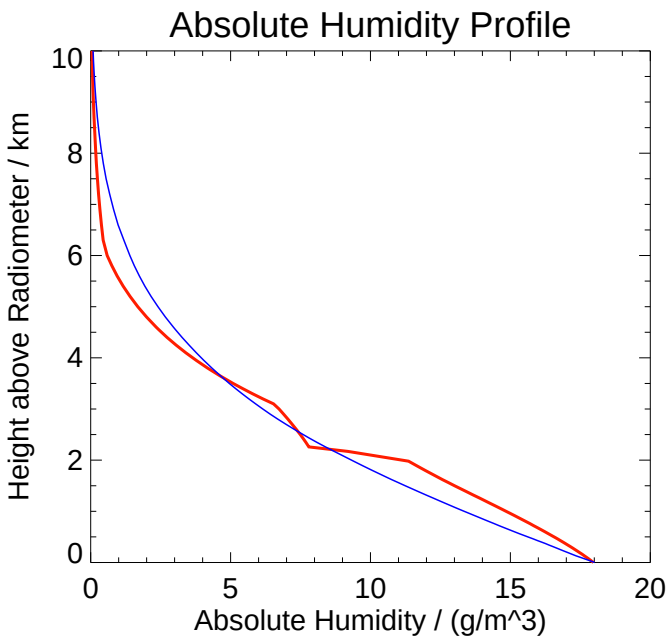

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14

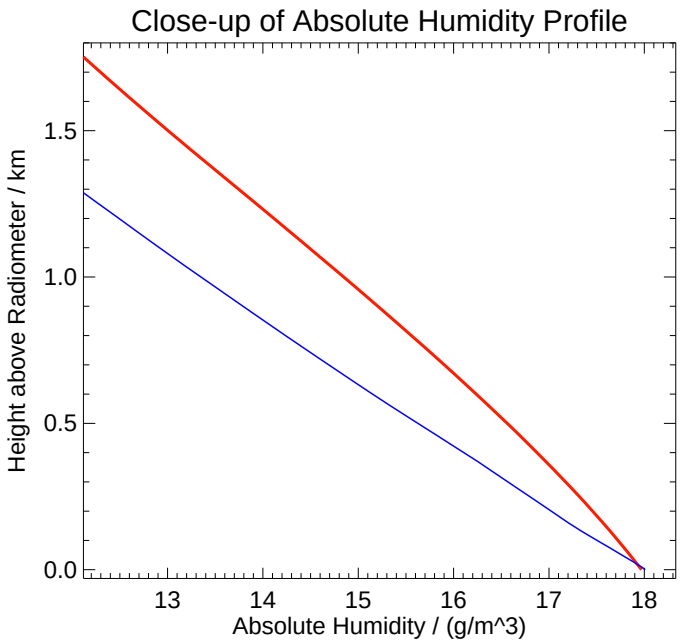

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
9.0
9.5
10.0
10.5
11.0
11.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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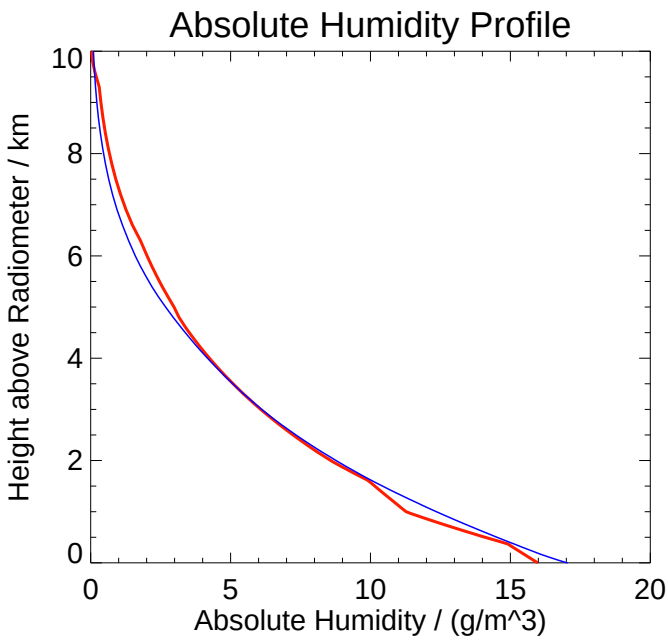
15
16
17
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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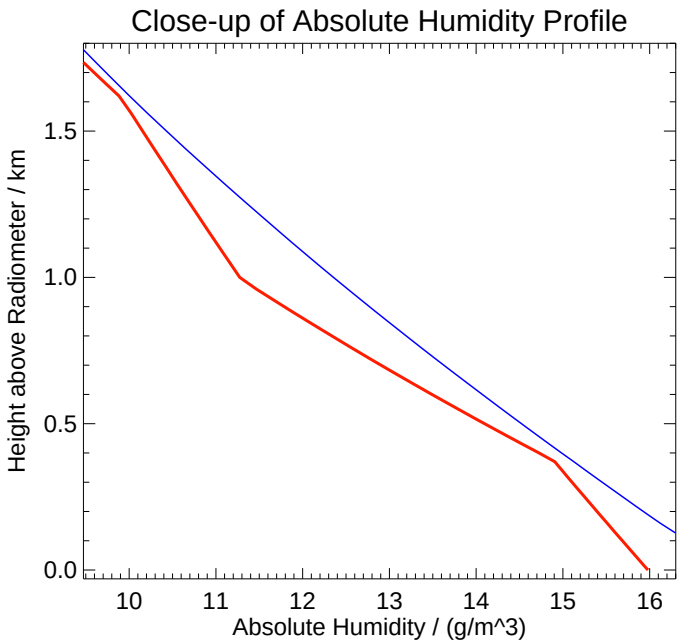
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
11
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13
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15
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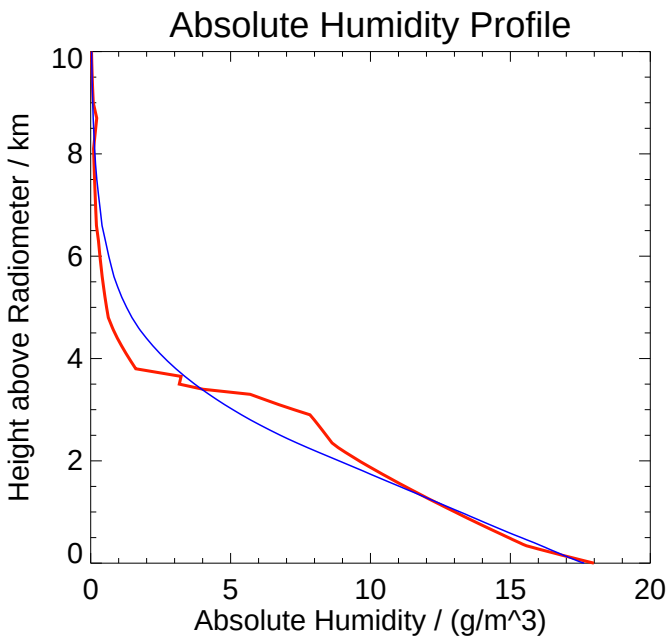
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
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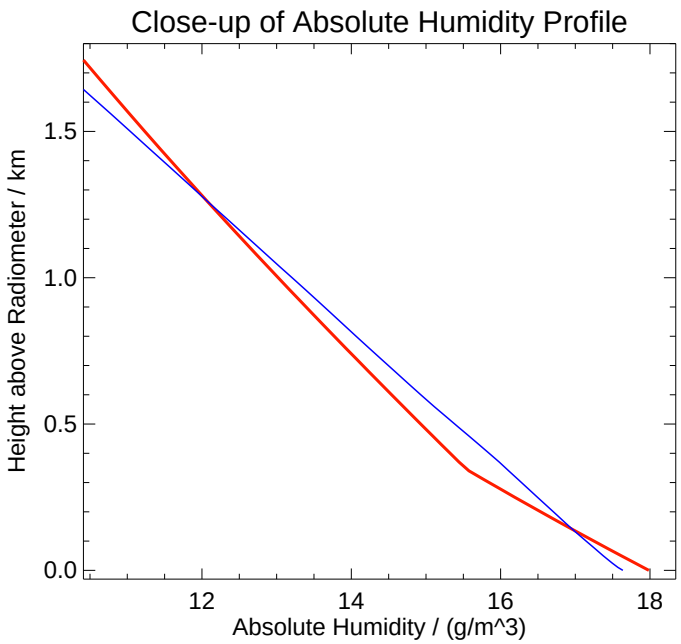
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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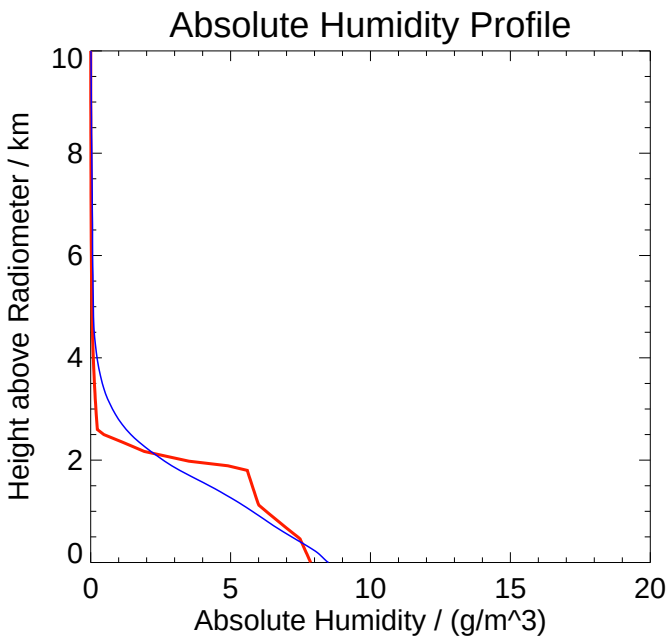
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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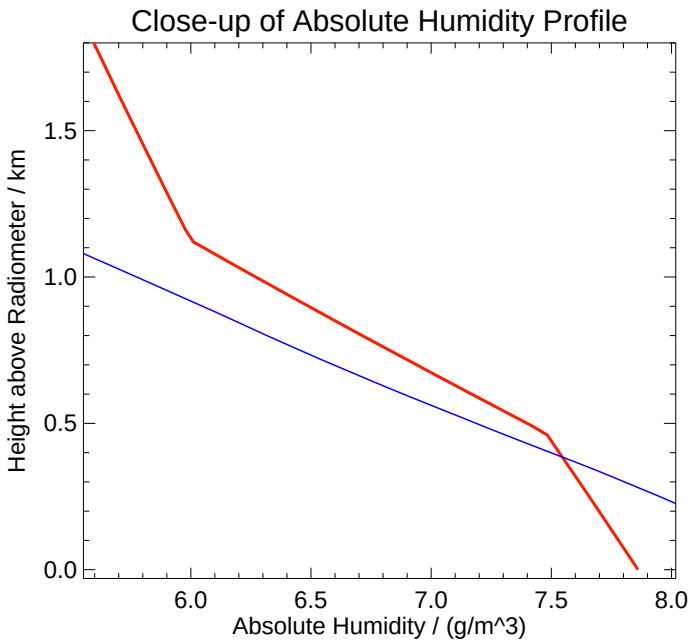
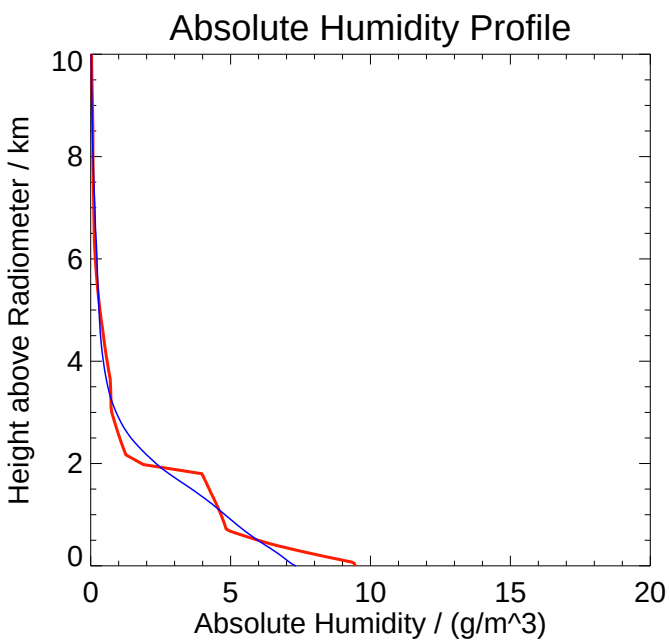

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6.0
6.5
7.0
7.5
8.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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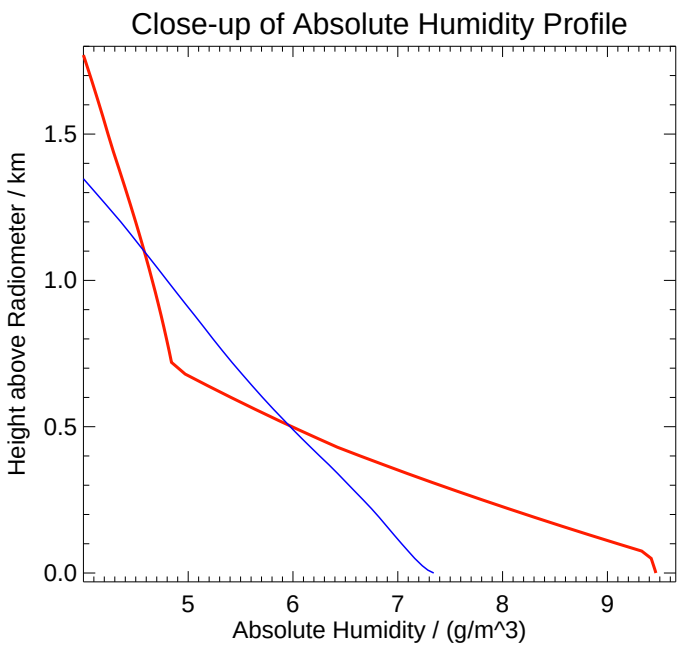
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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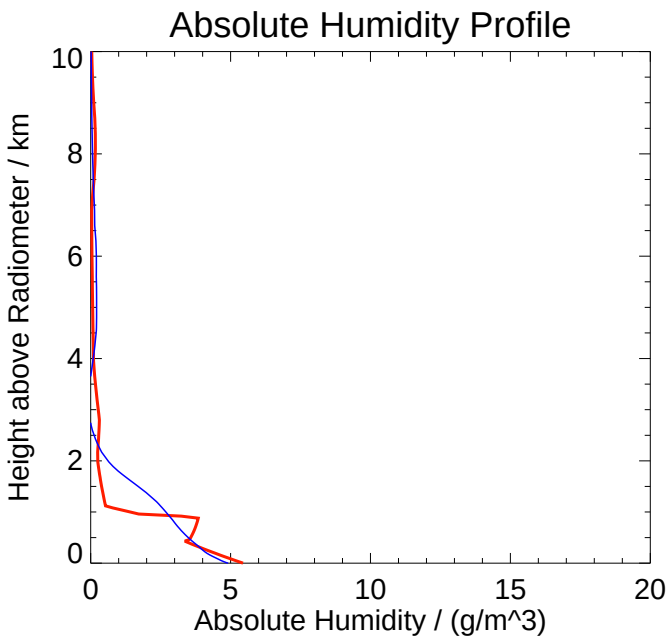
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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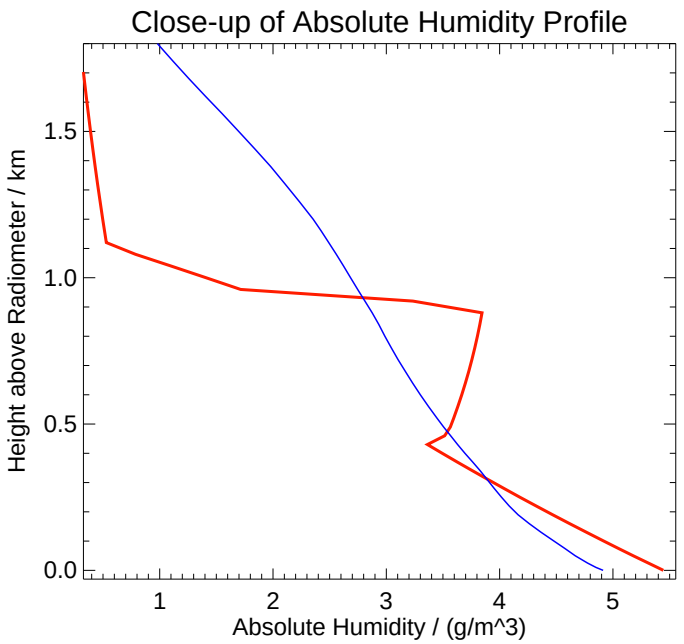
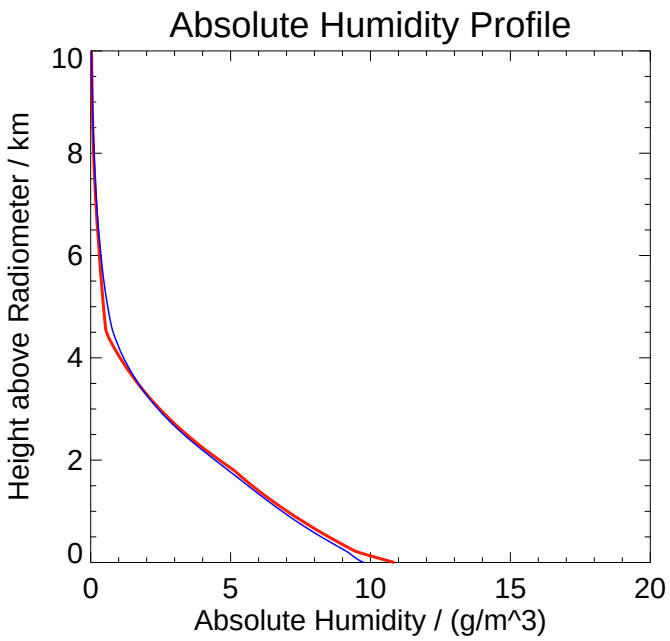

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
1
2
3
4
5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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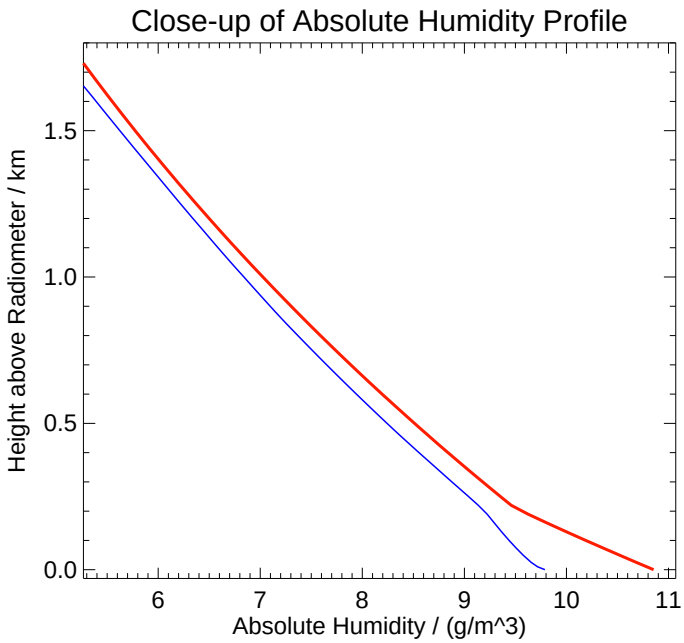
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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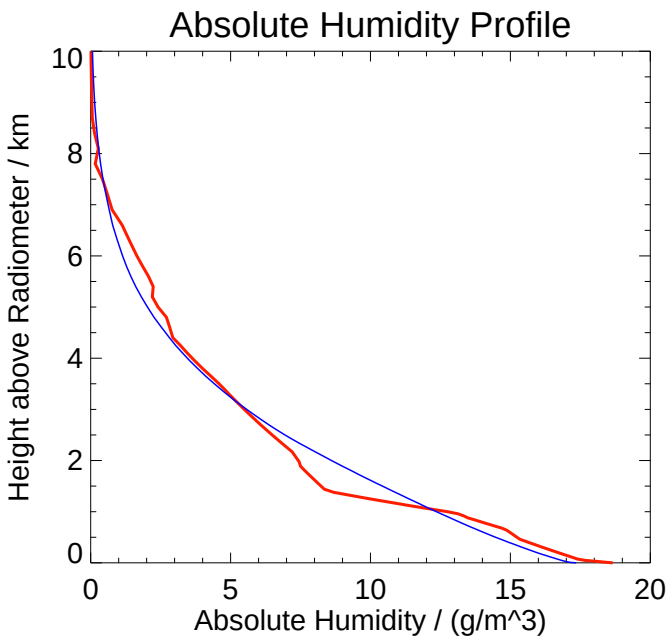
11


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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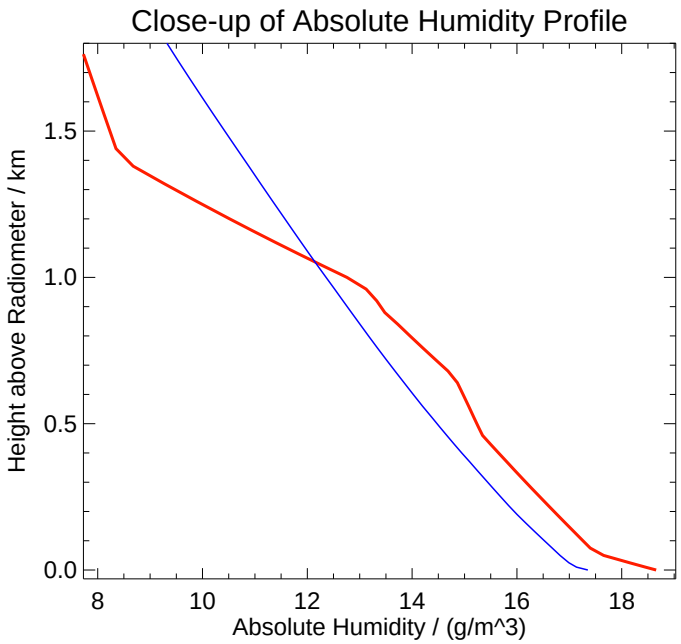
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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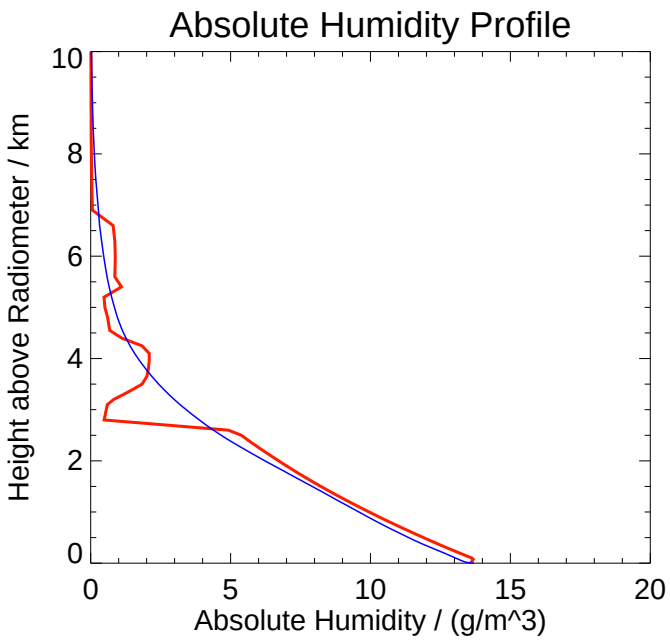
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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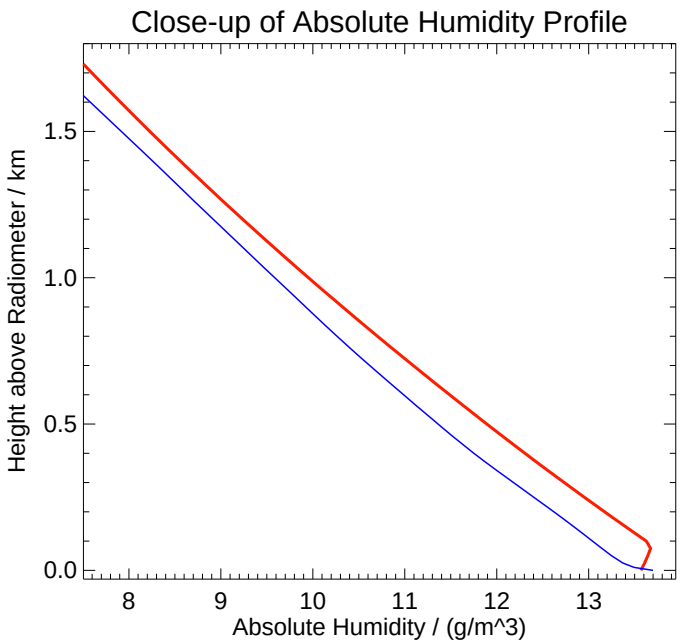
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
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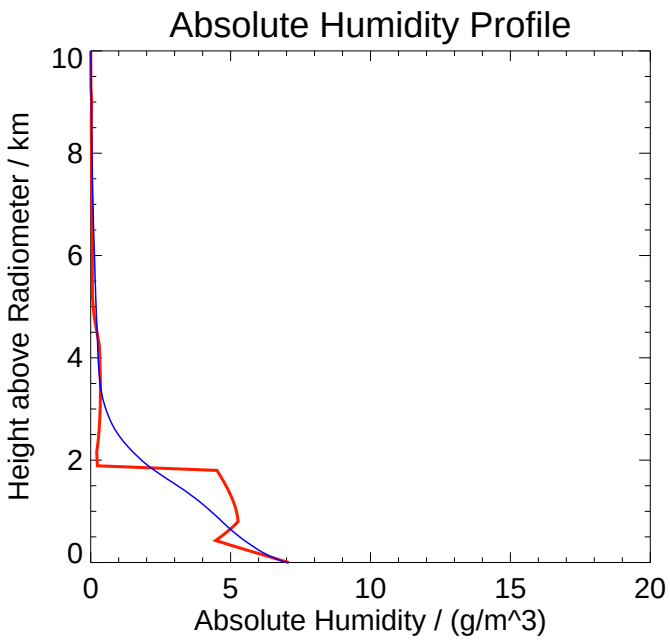
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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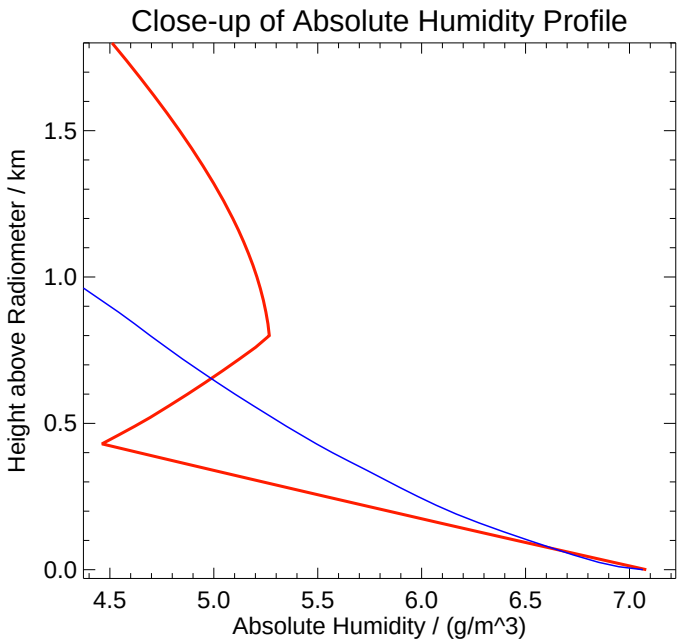
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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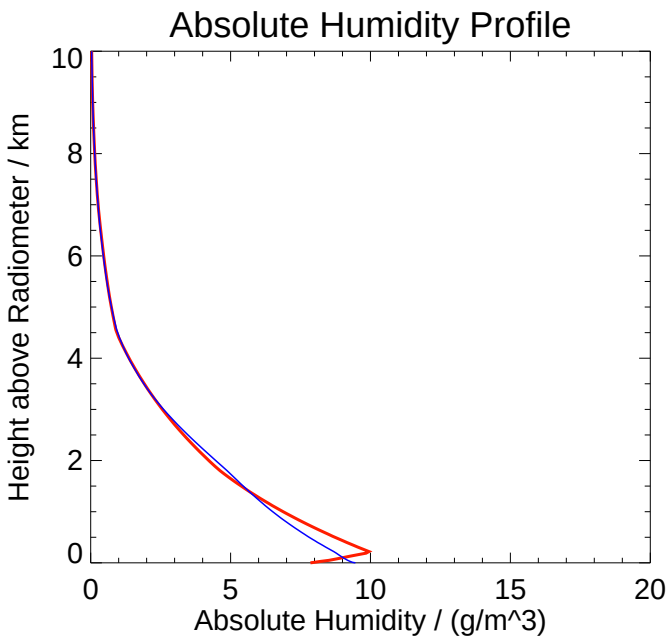
7.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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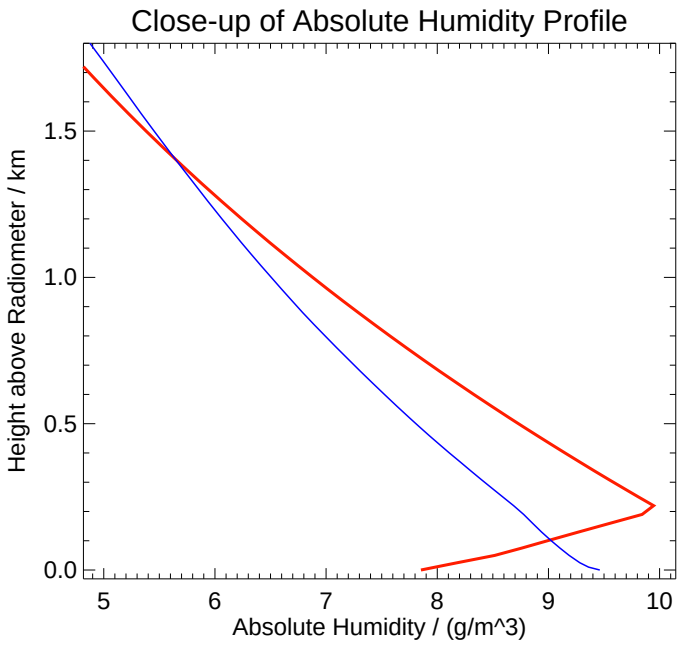
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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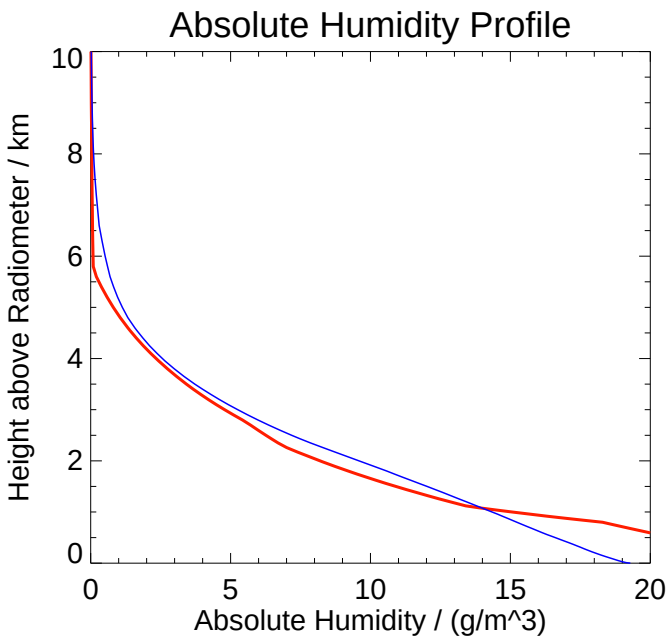
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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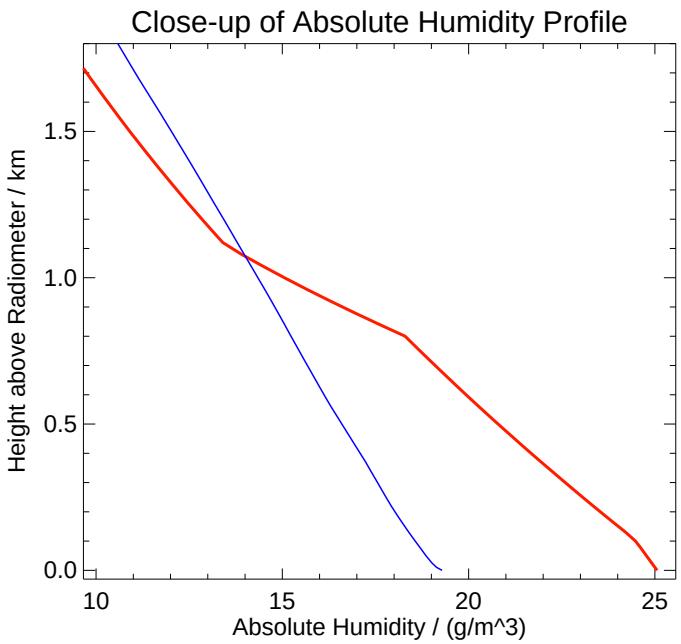
Close-up of Absolute Humidity Profile
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Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
10
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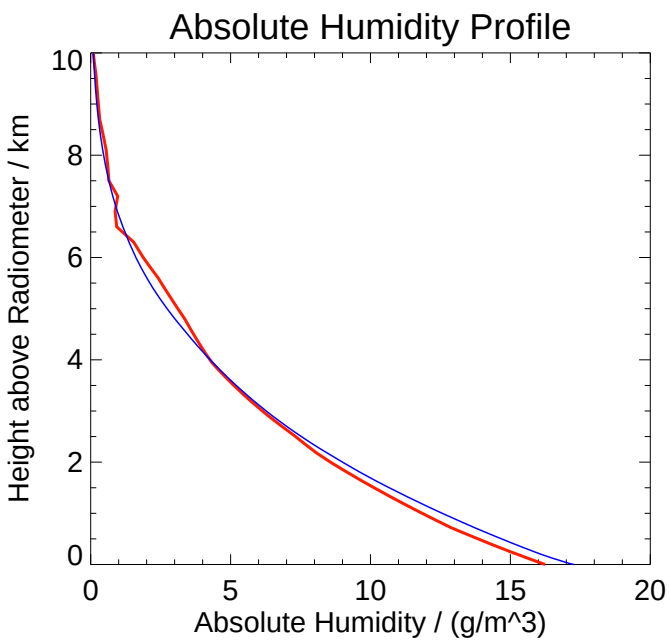
25


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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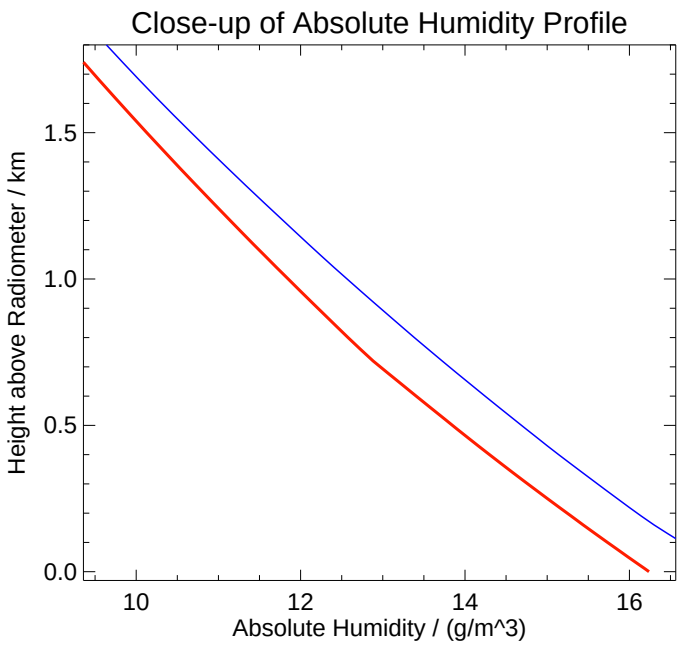
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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12
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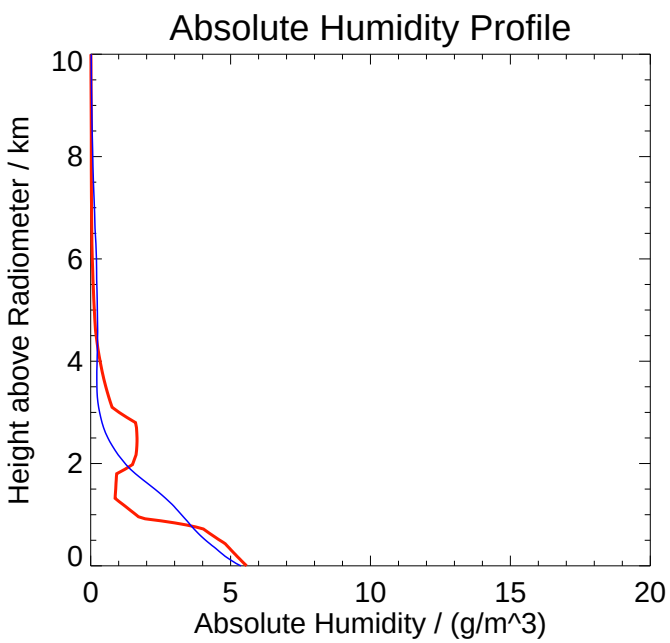
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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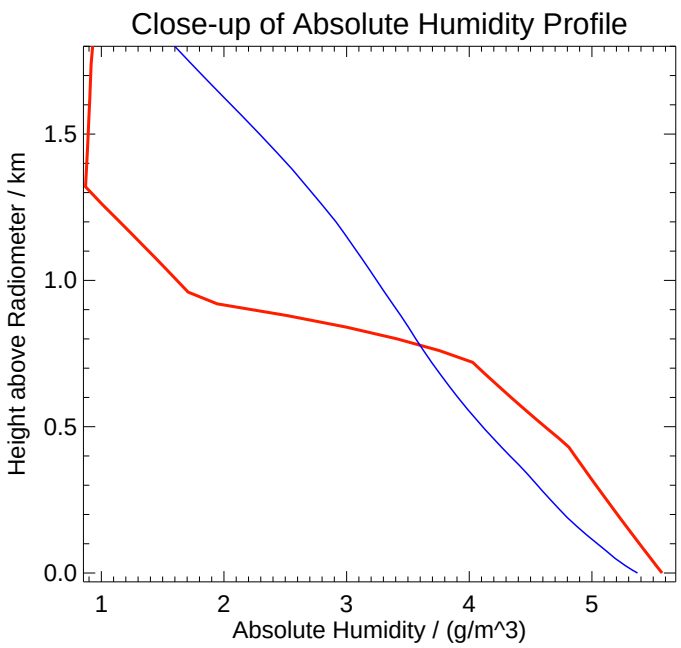
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
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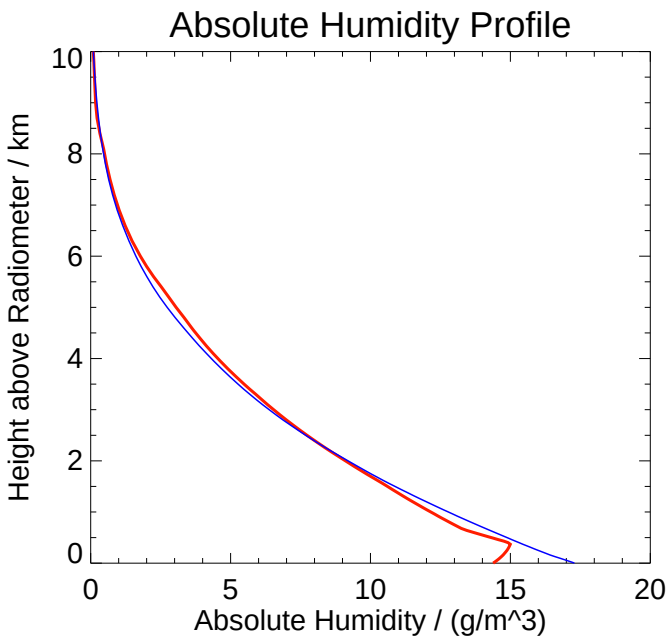
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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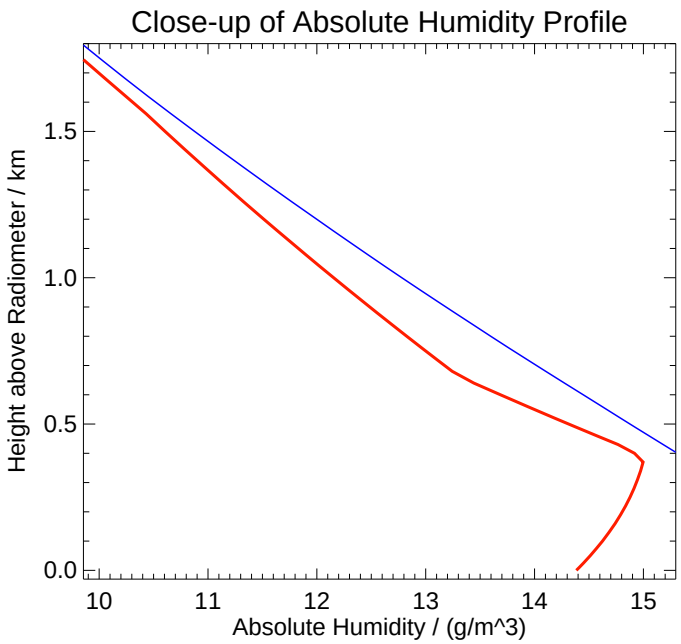
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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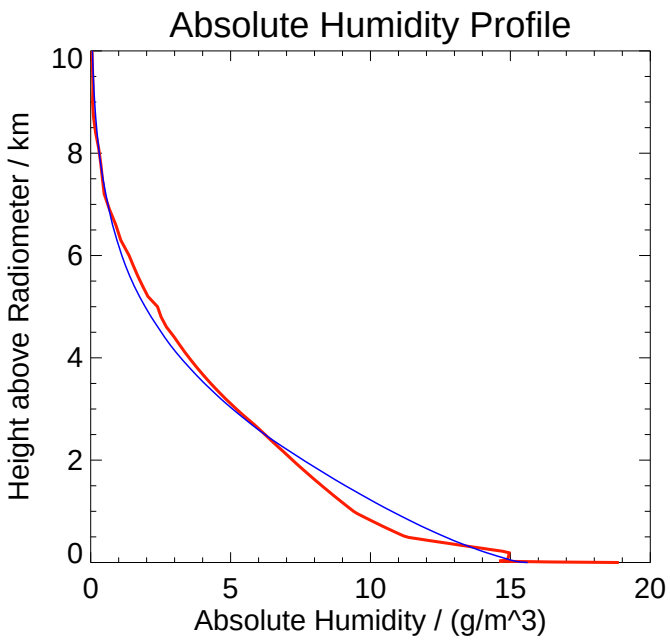
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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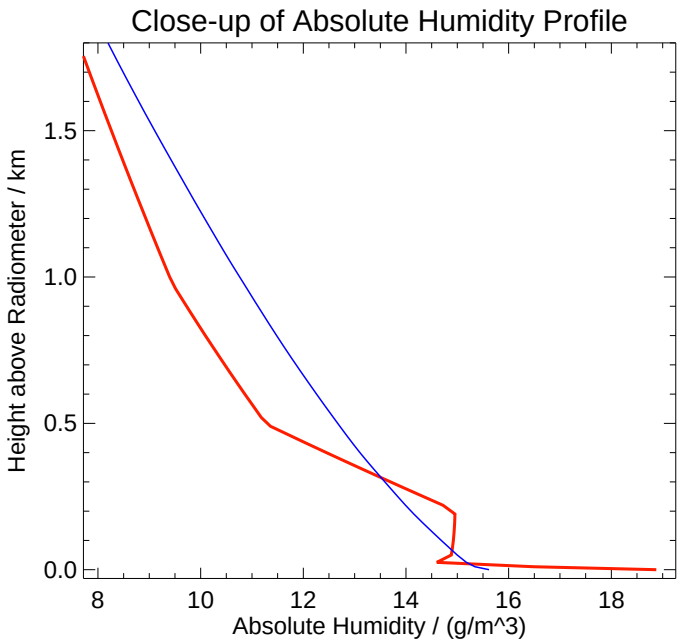
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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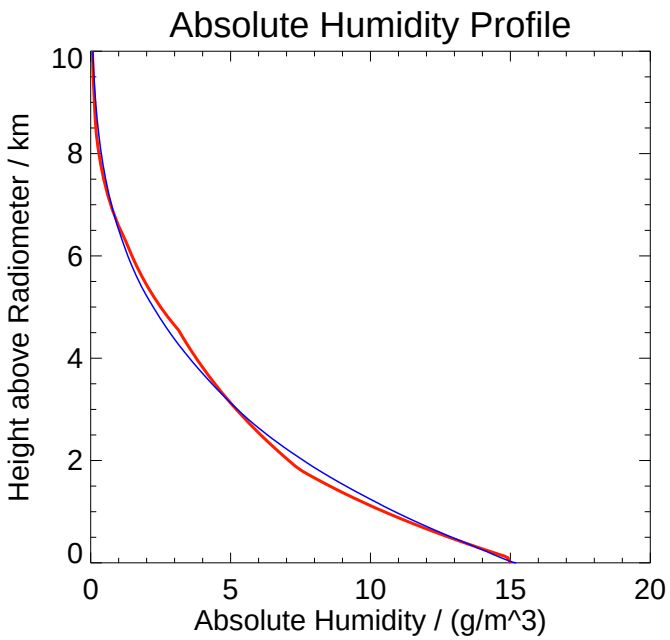
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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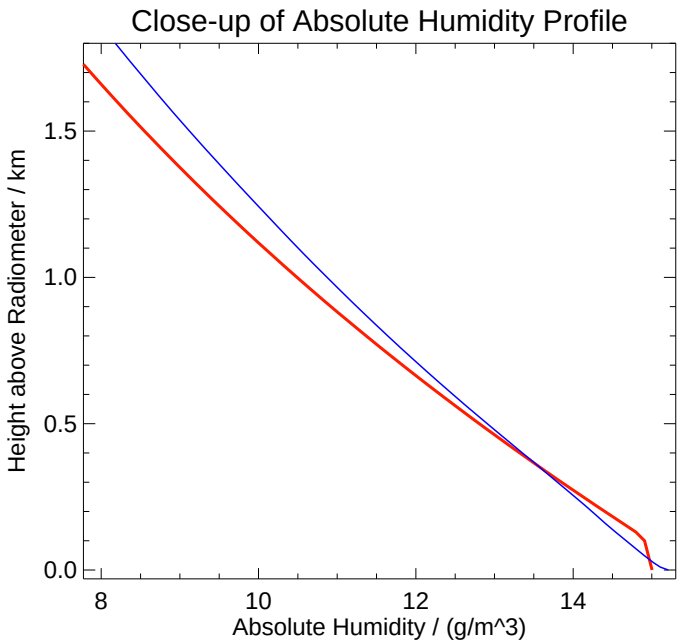
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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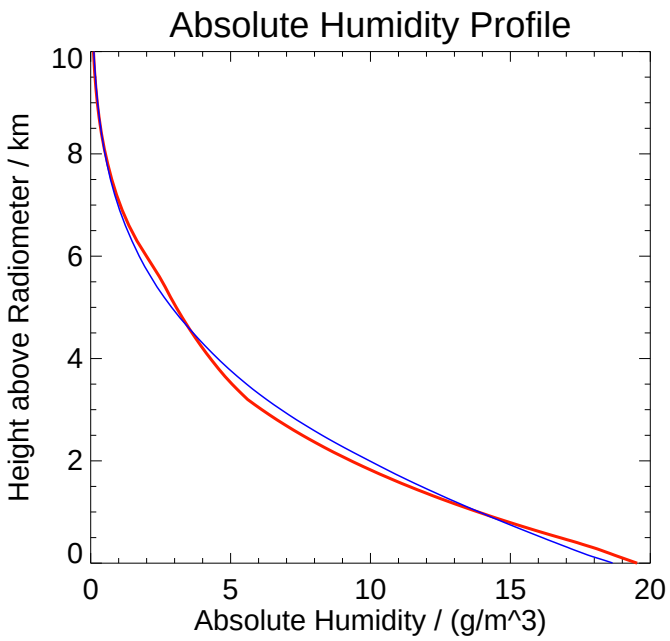
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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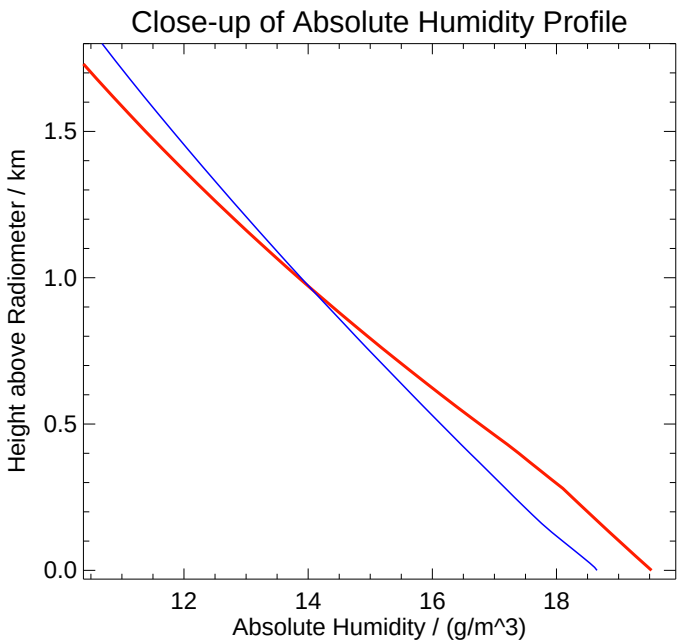
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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1.0
1.5
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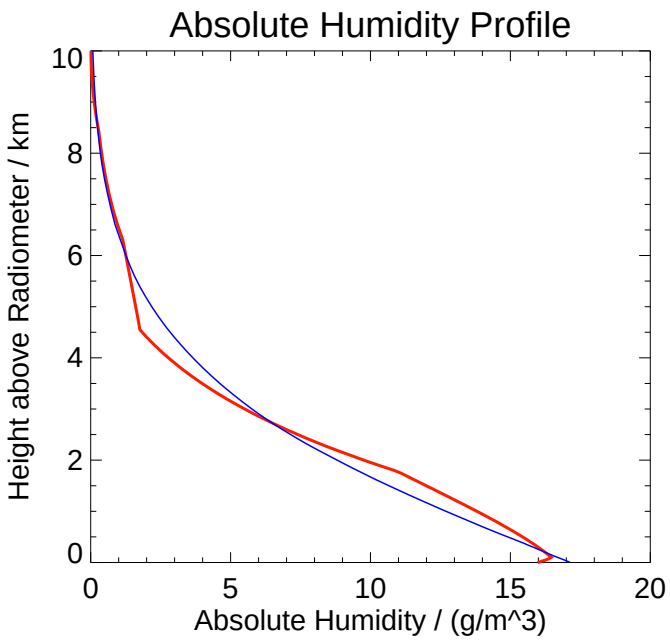
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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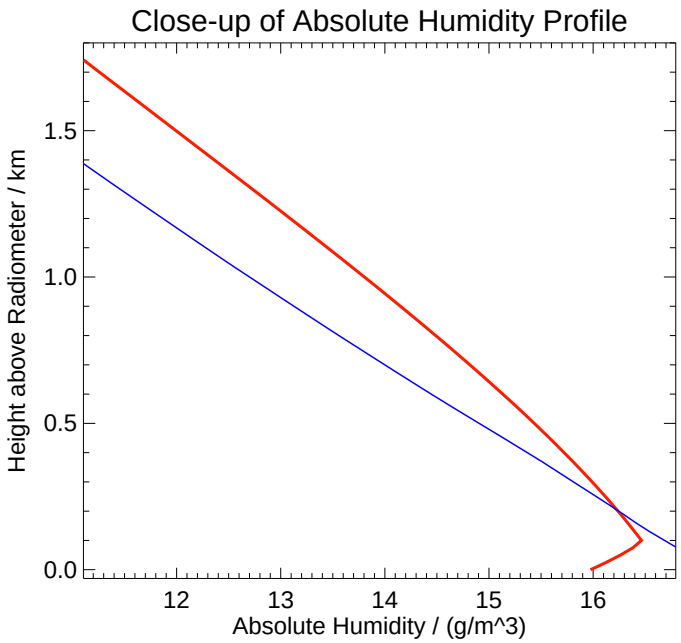
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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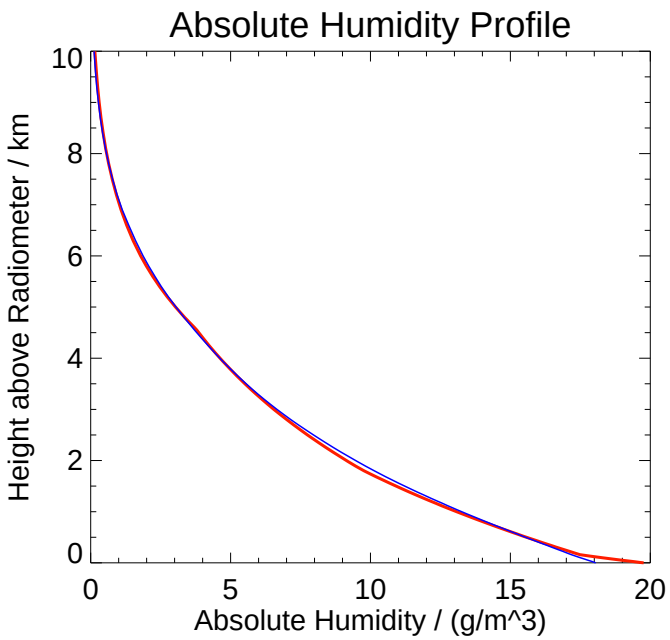
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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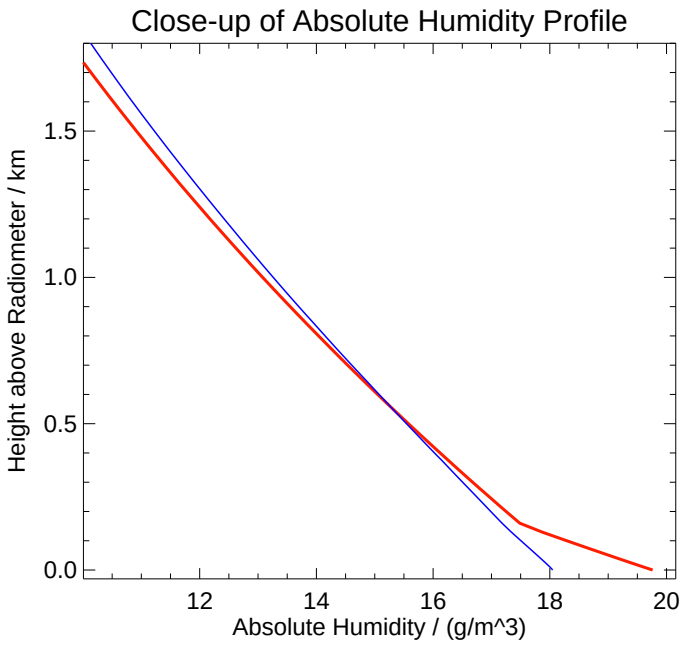
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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1.0
1.5
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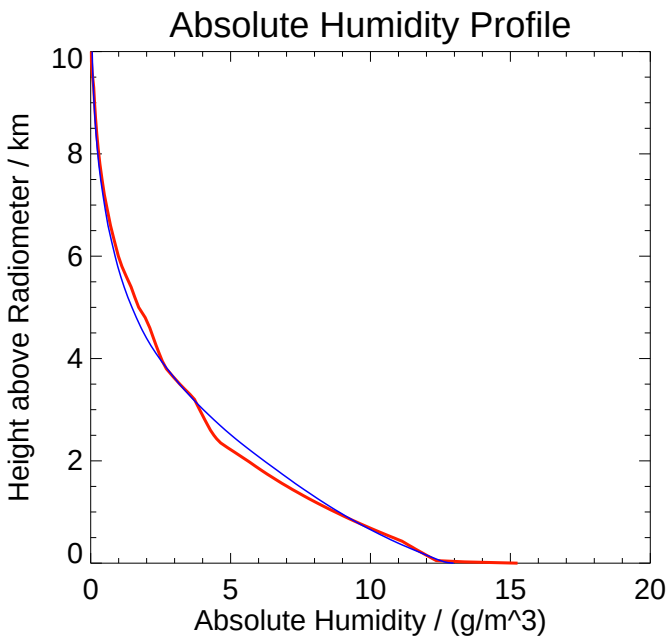
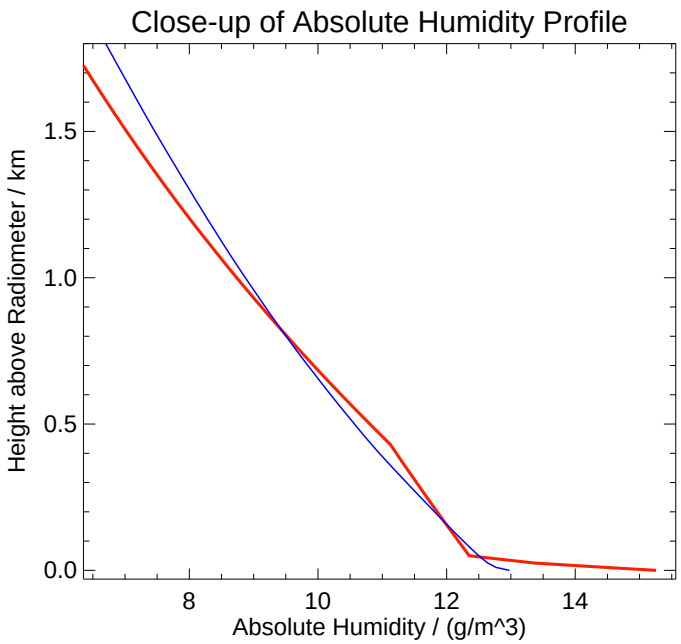
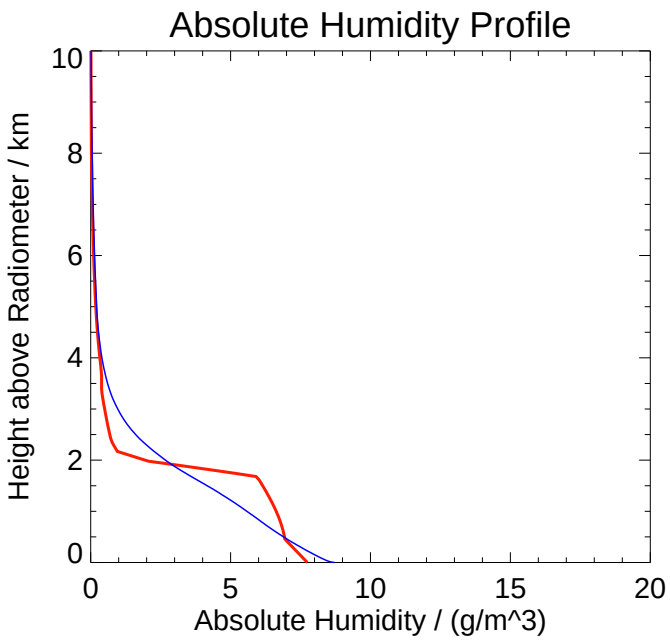
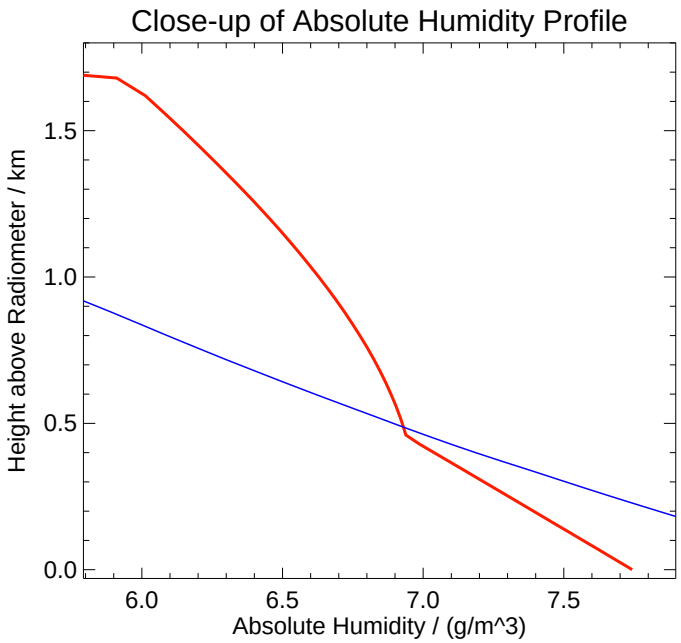
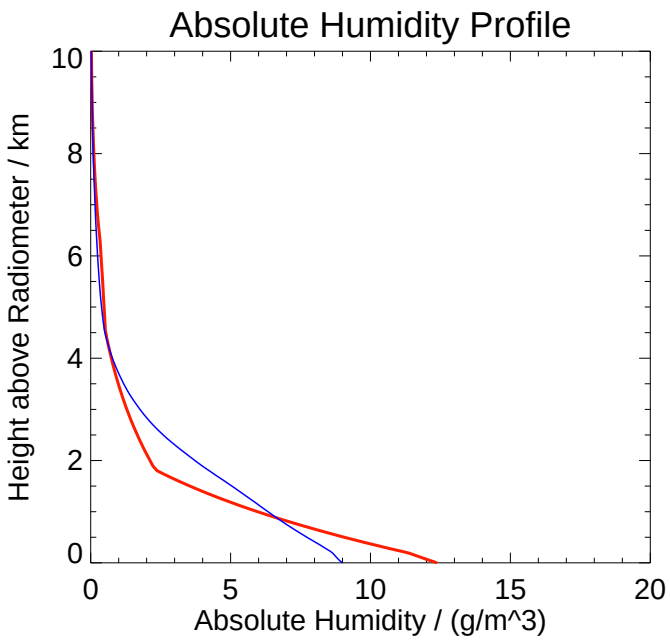
18
20

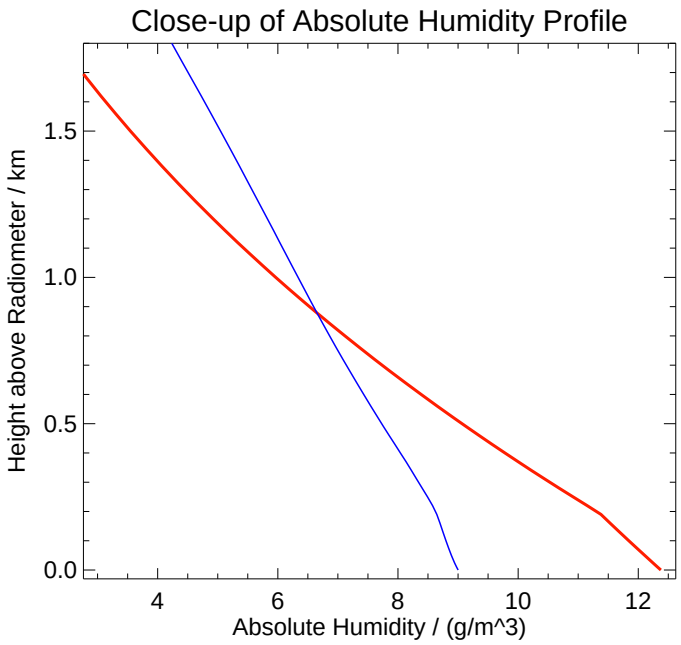

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

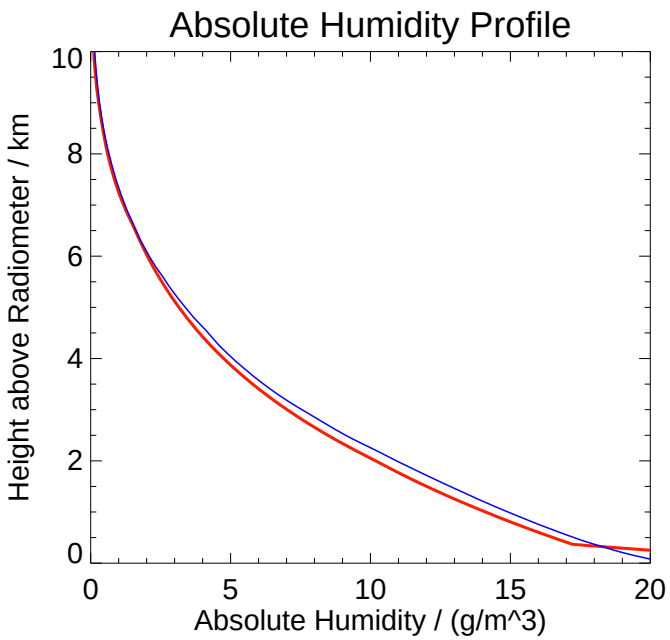

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8
10
12
14


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6.0
6.5
7.0
7.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4
6
8
10
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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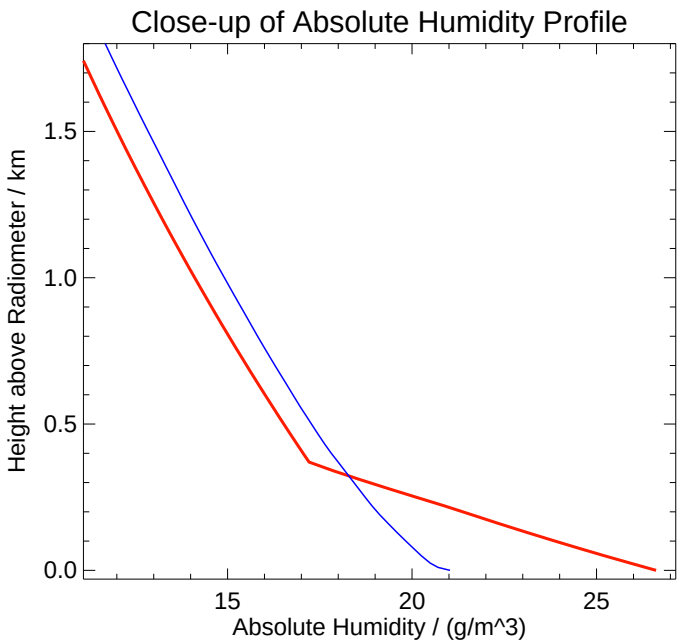
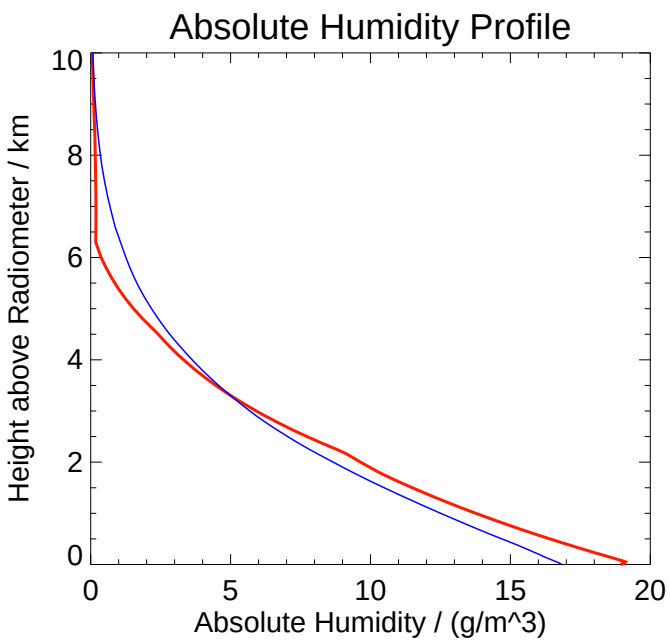

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
15
20
25


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
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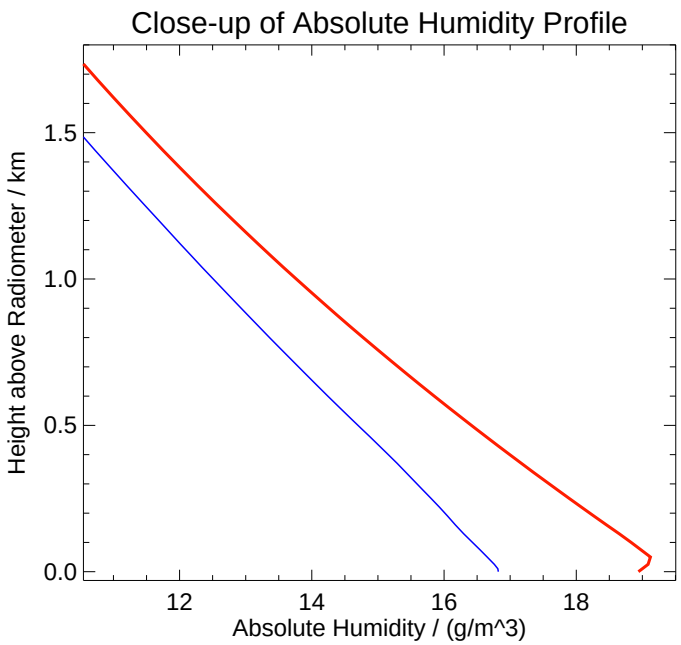
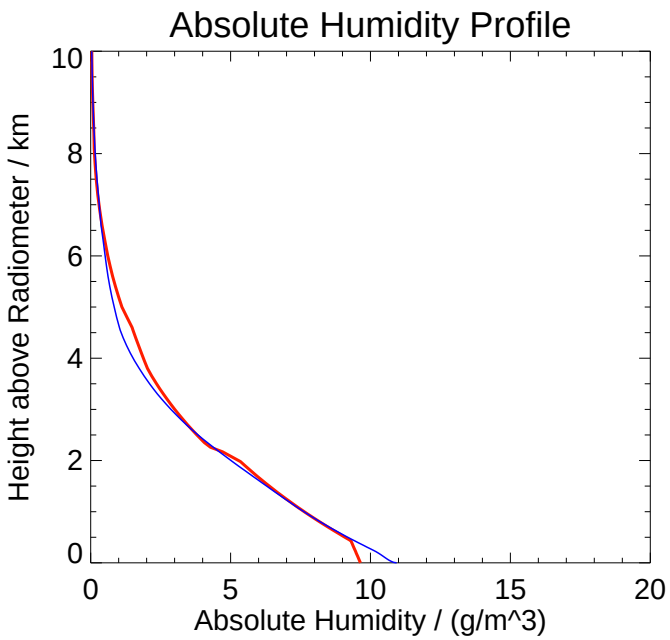
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
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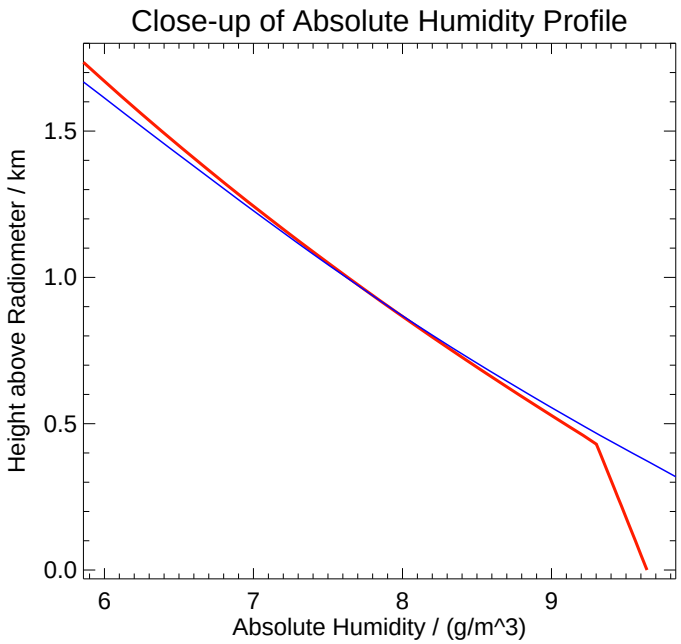
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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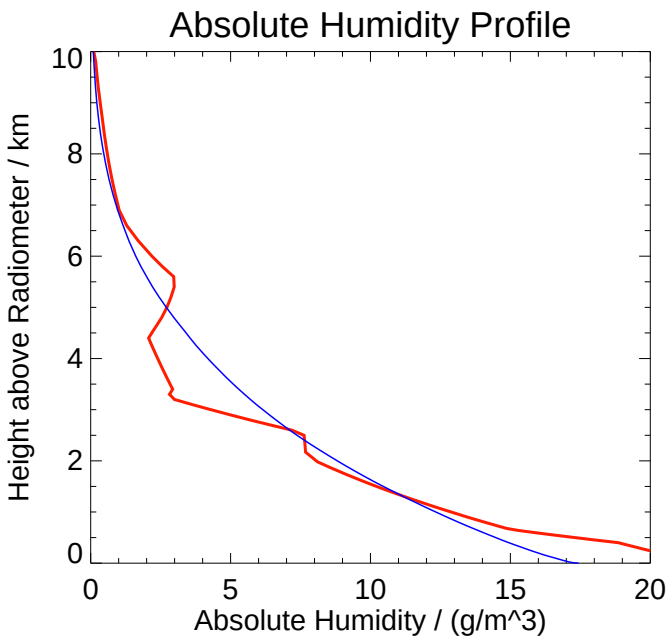
7
8
9


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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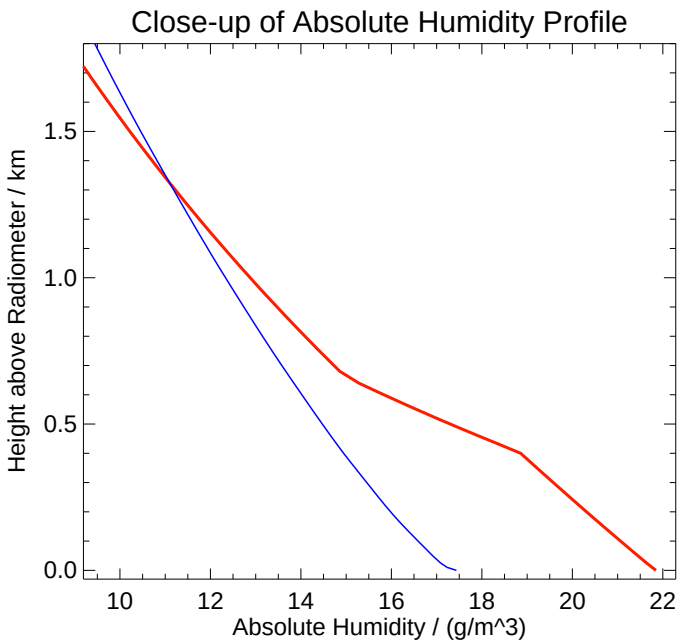
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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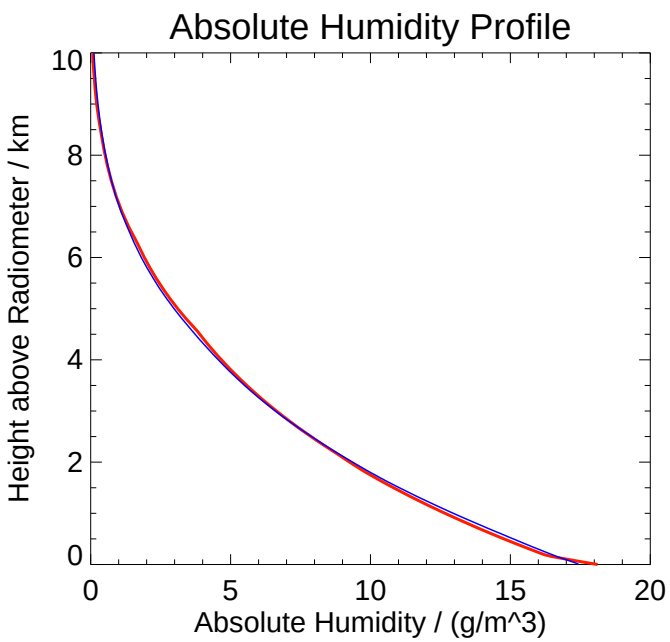
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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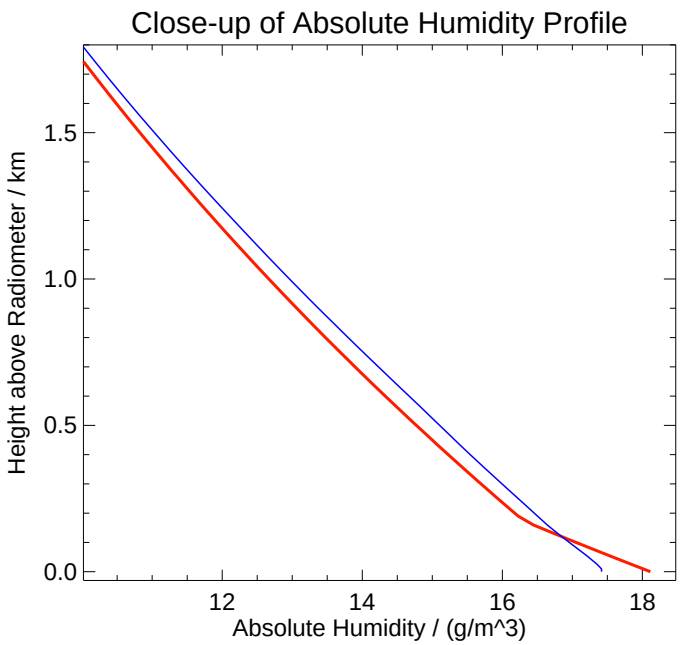
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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16
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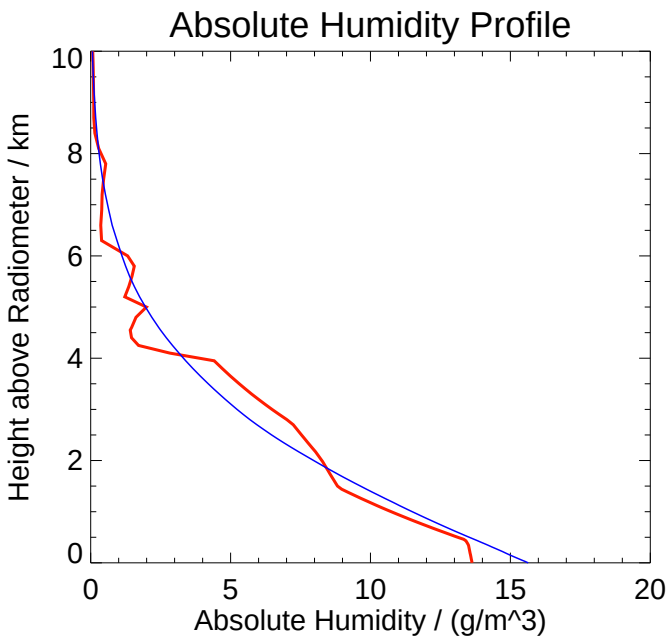
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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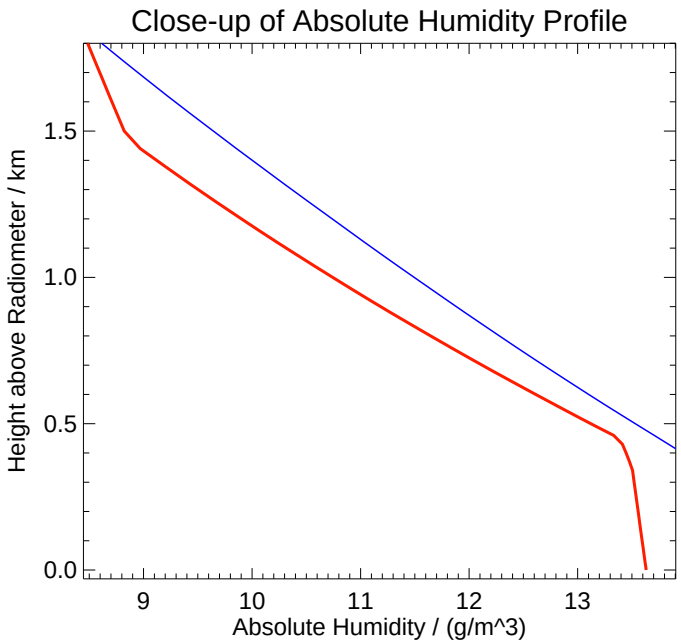
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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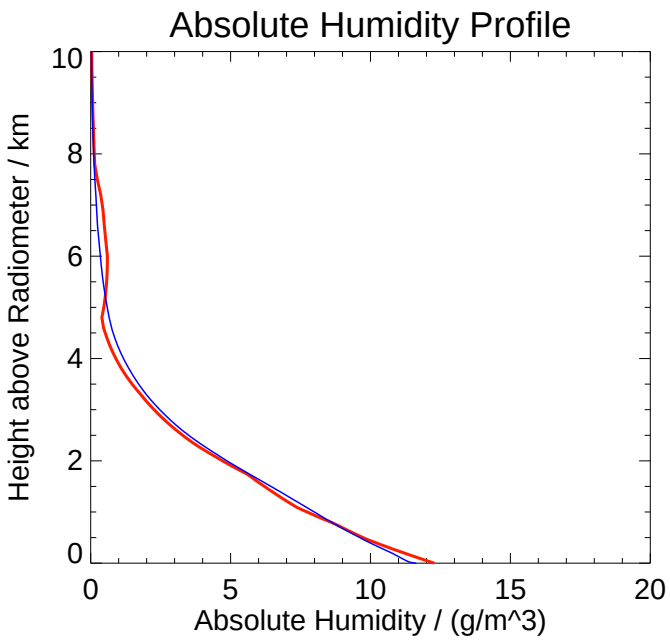
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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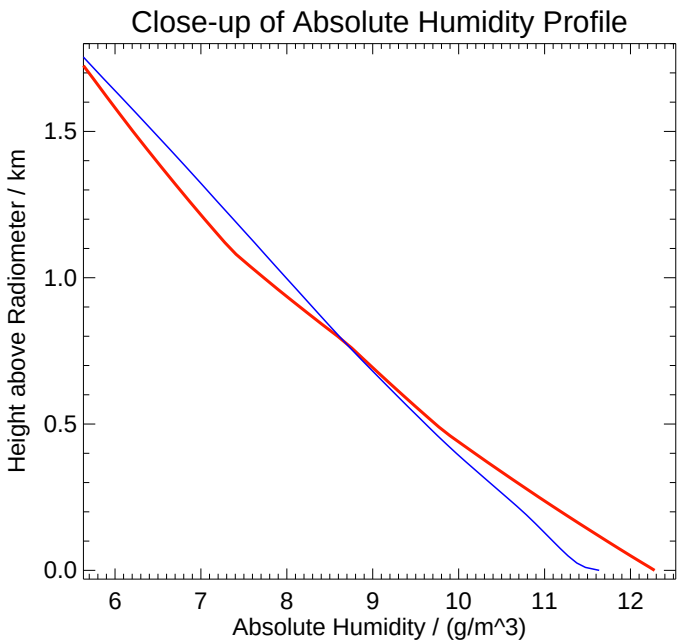
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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1.0
1.5
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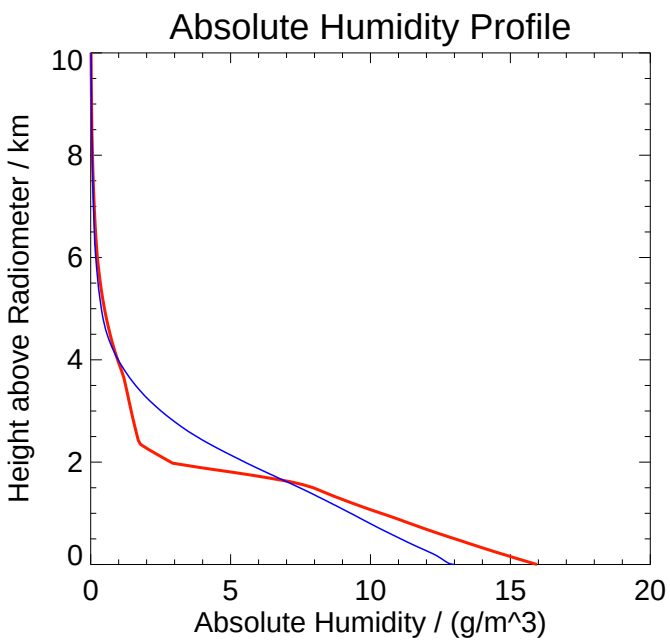
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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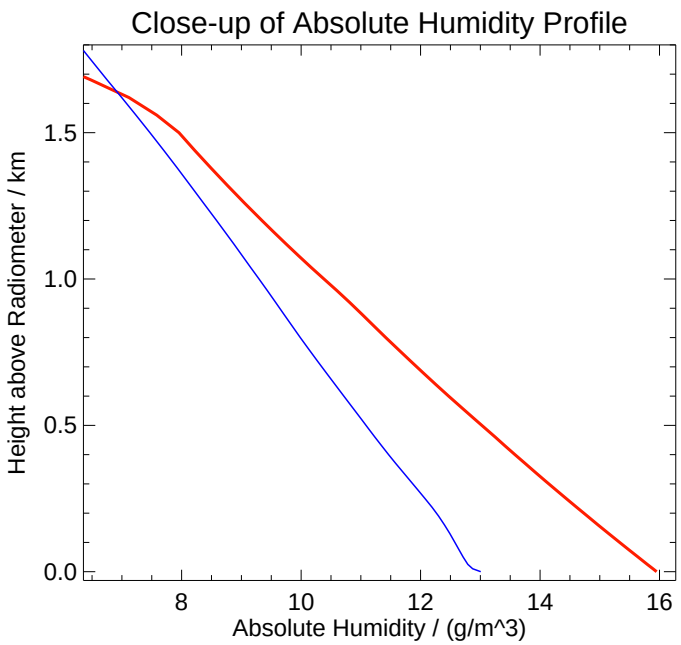
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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14
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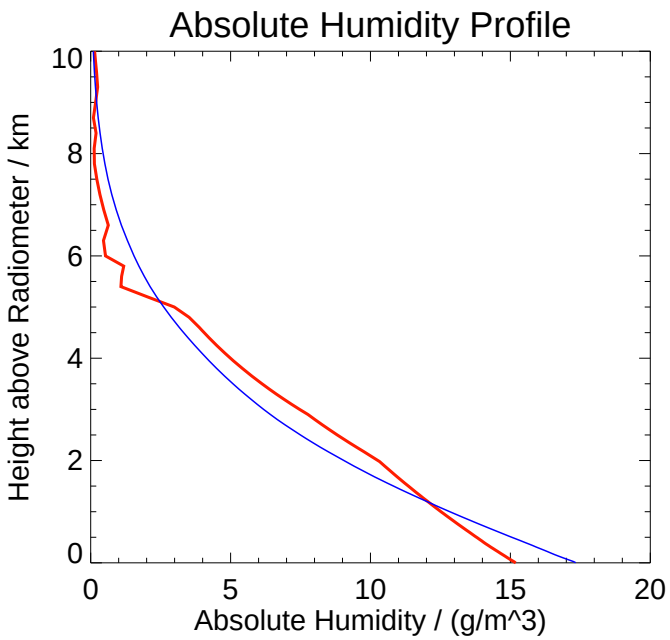
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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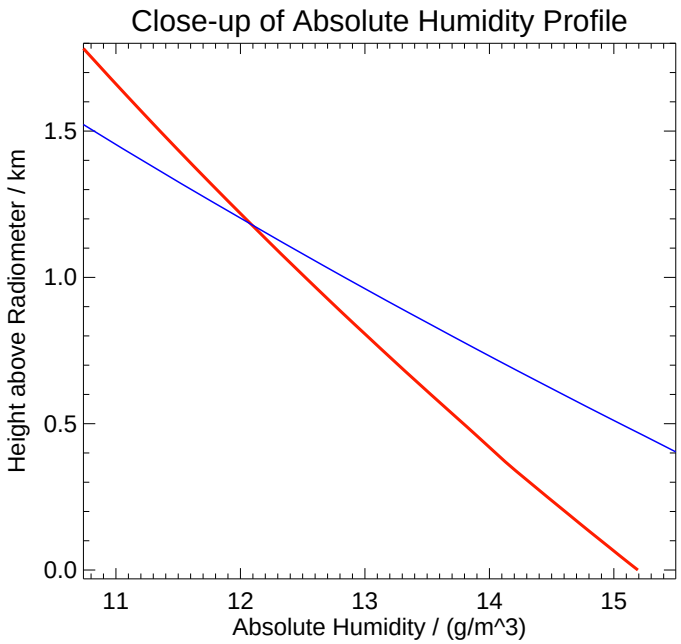
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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12
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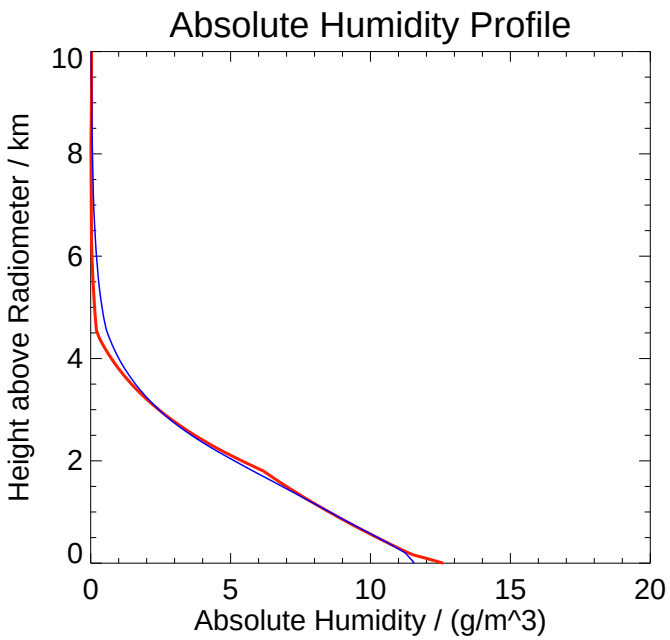
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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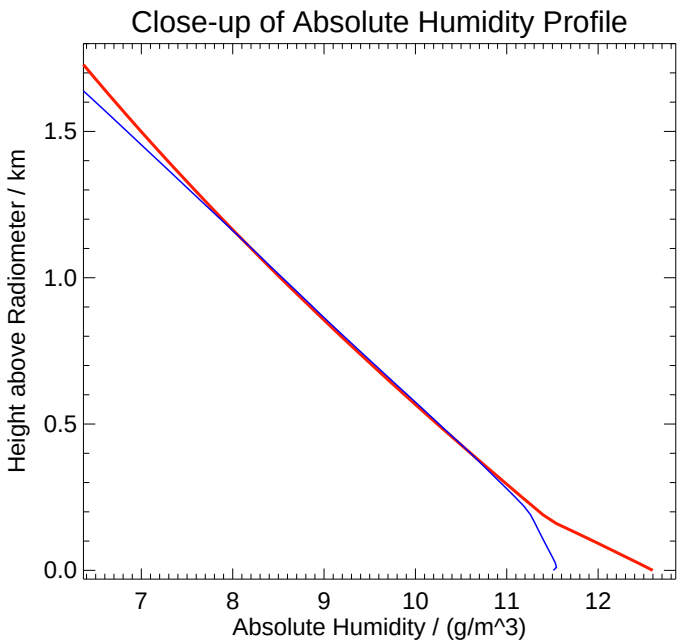
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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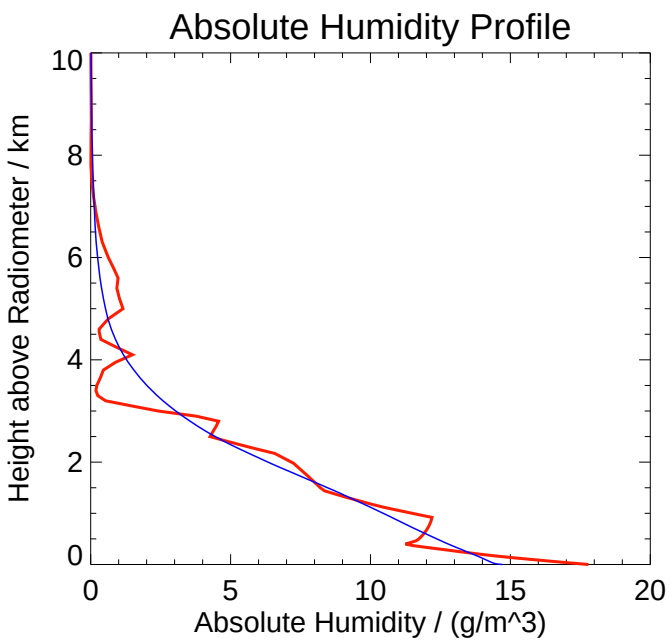
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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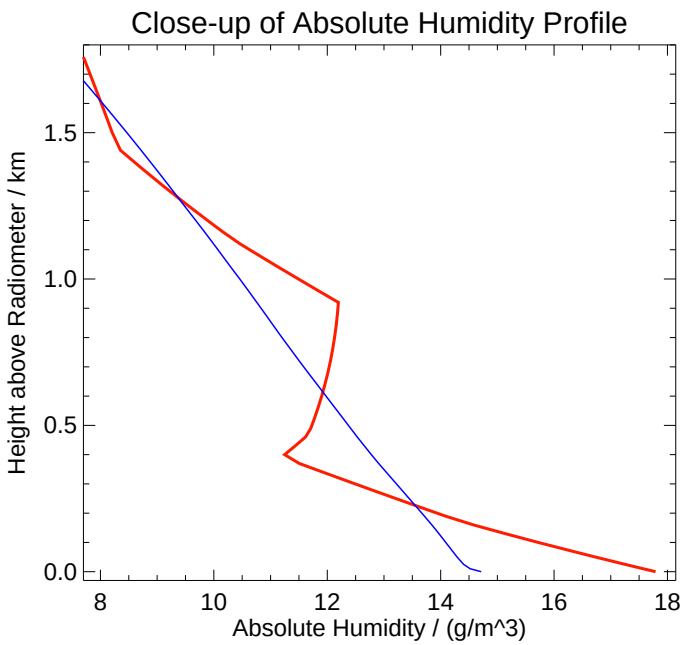
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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14
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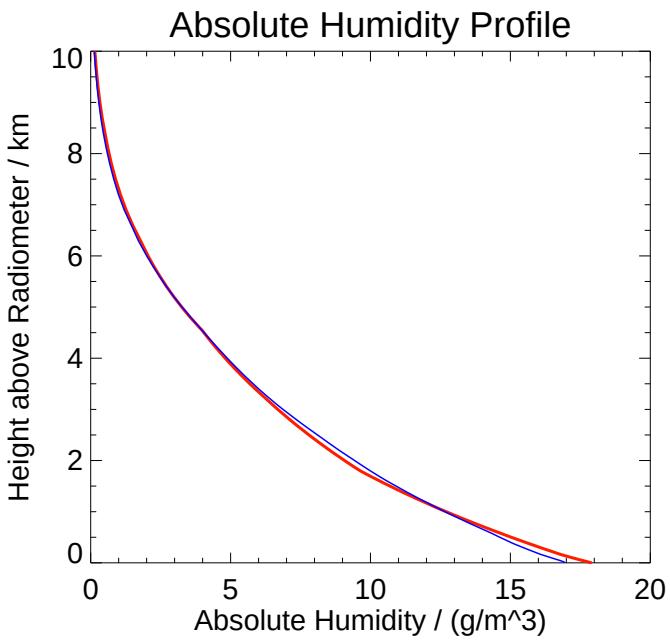
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
8
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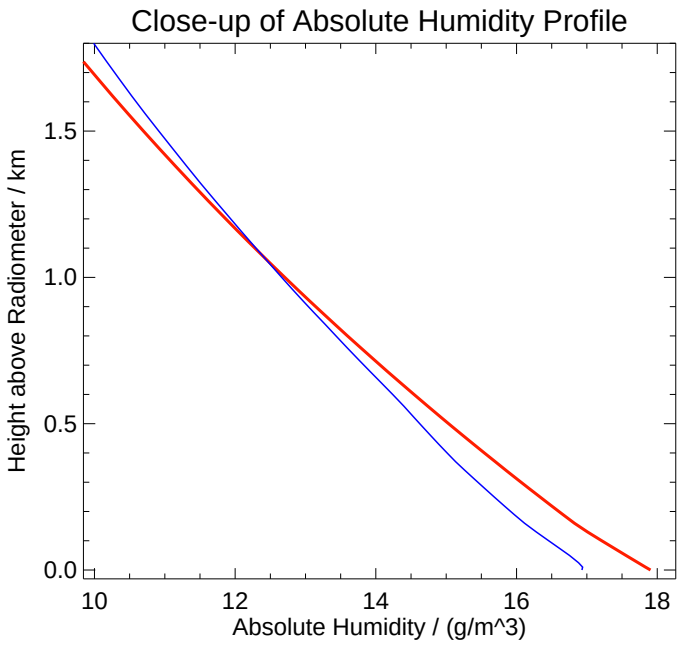
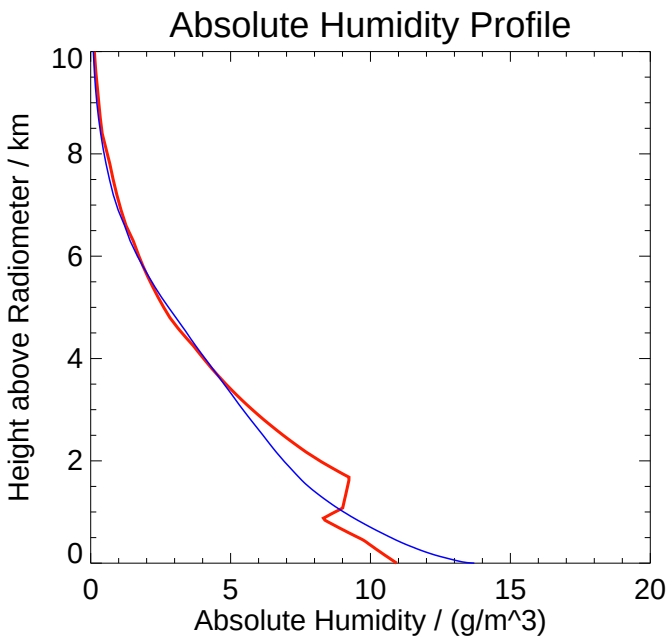

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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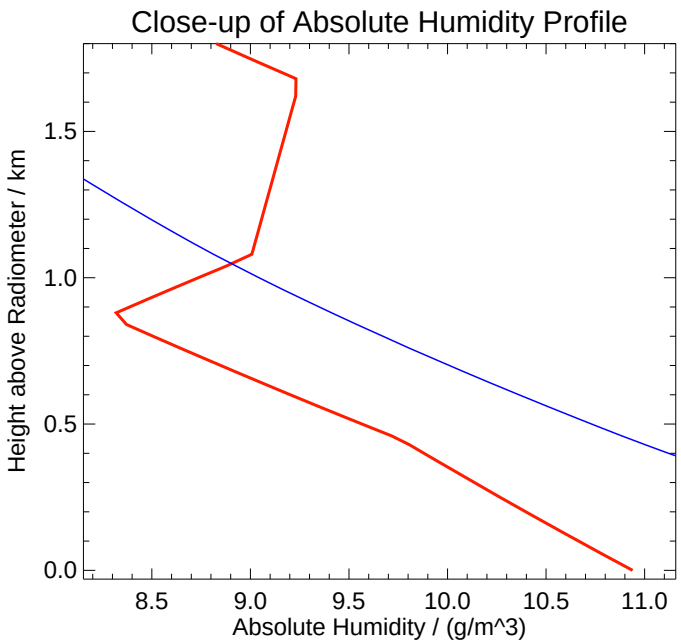
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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9.0
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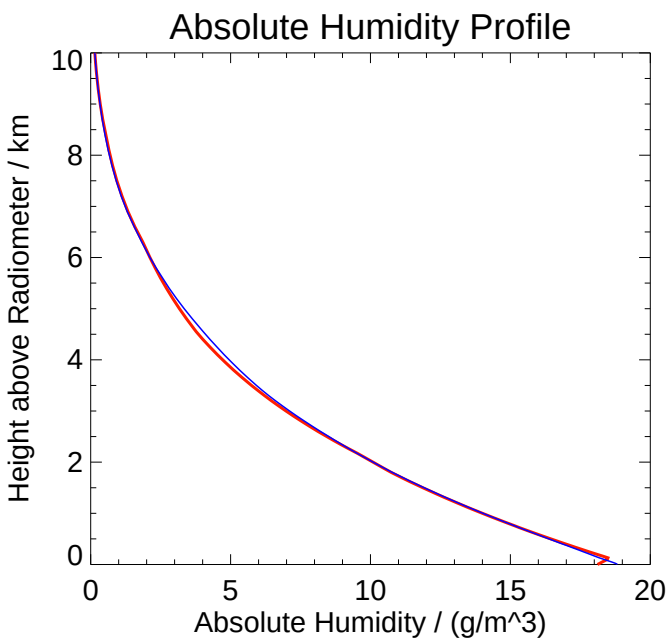
10.5
11.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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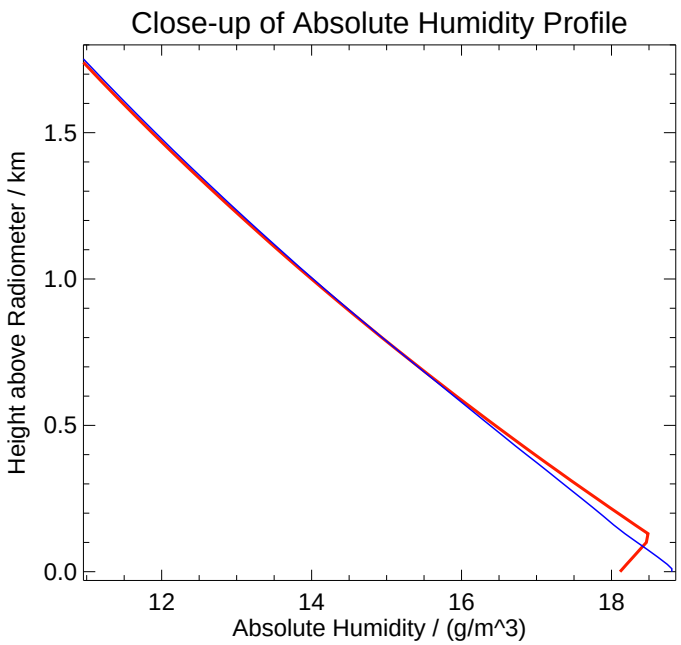
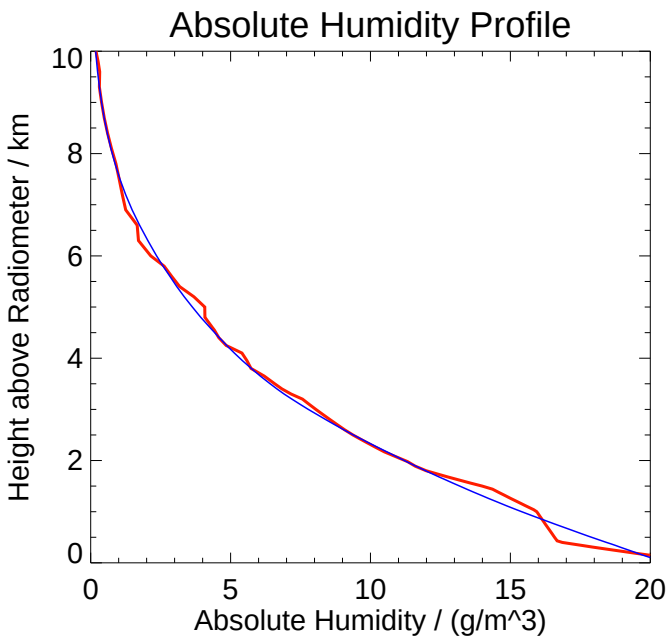

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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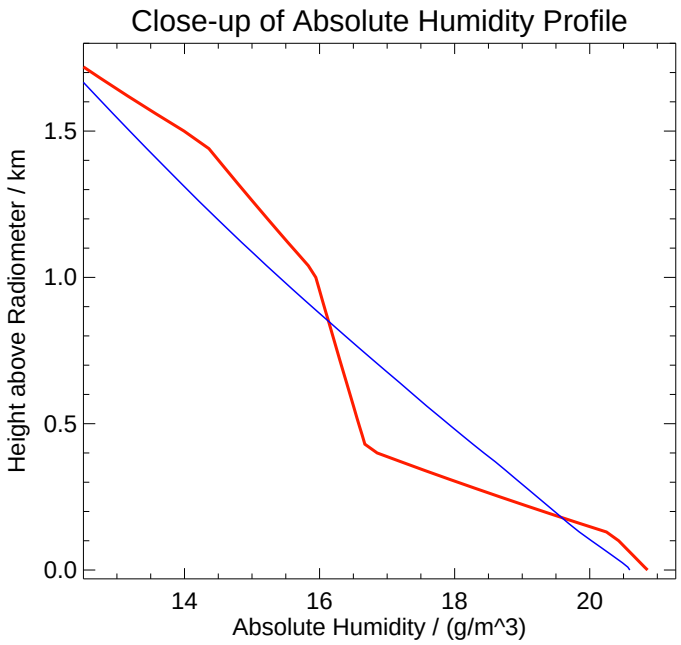
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
14
16
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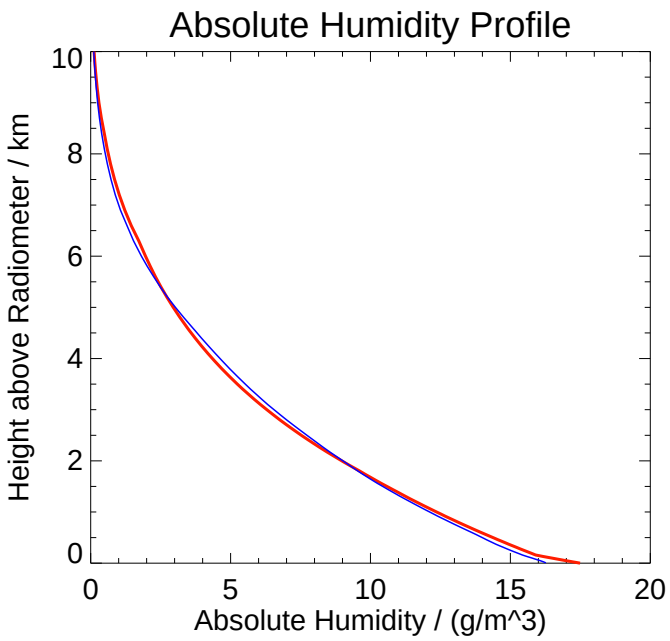
20


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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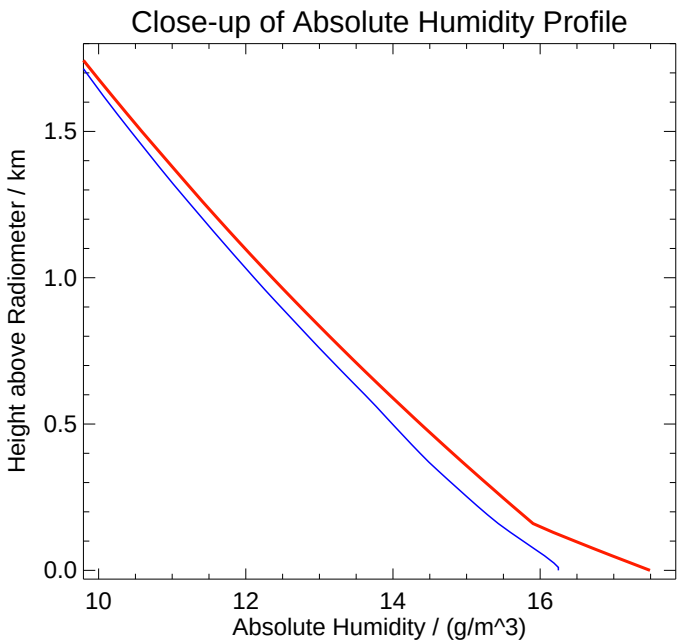
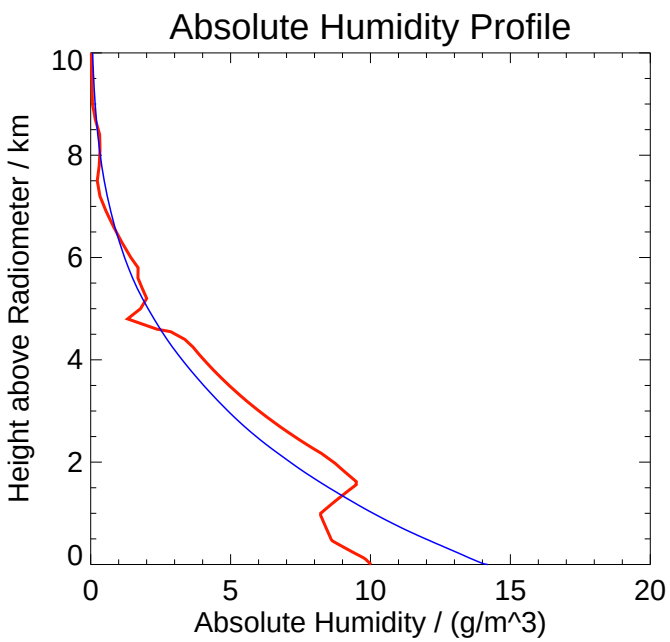

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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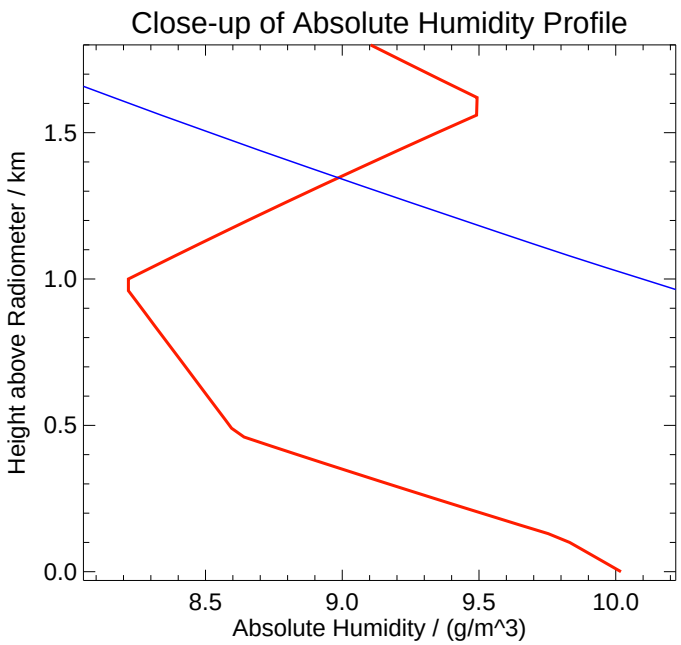
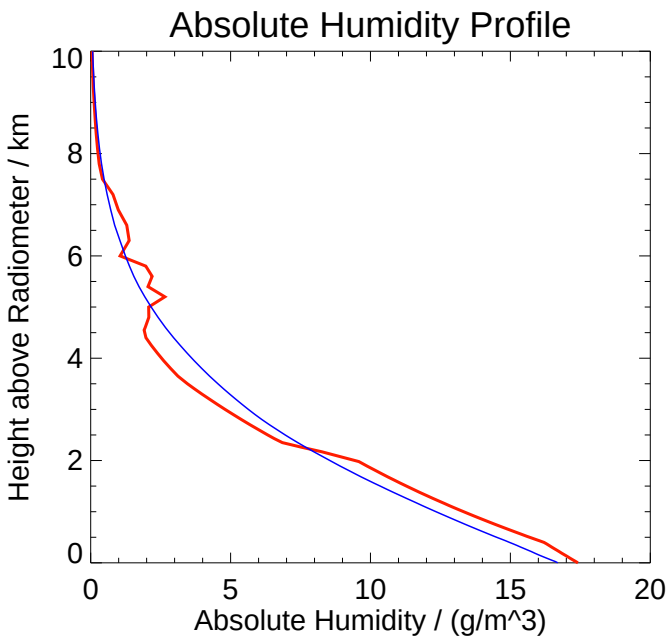
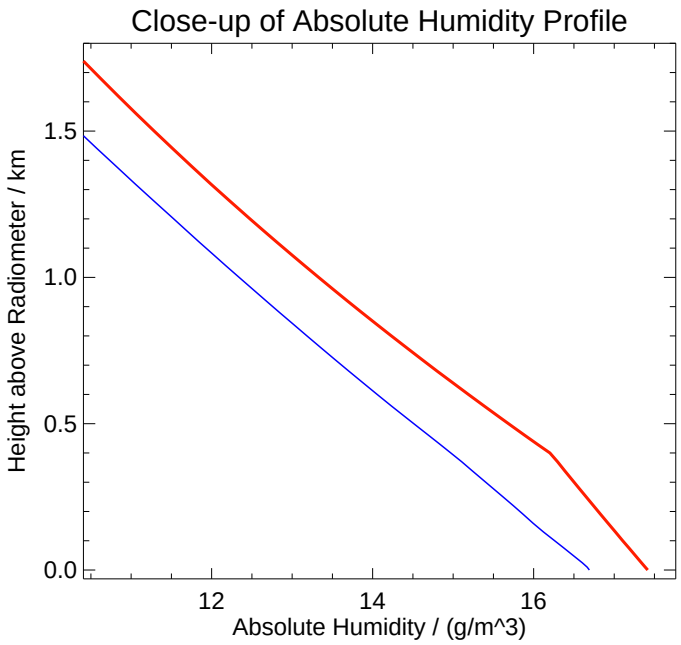
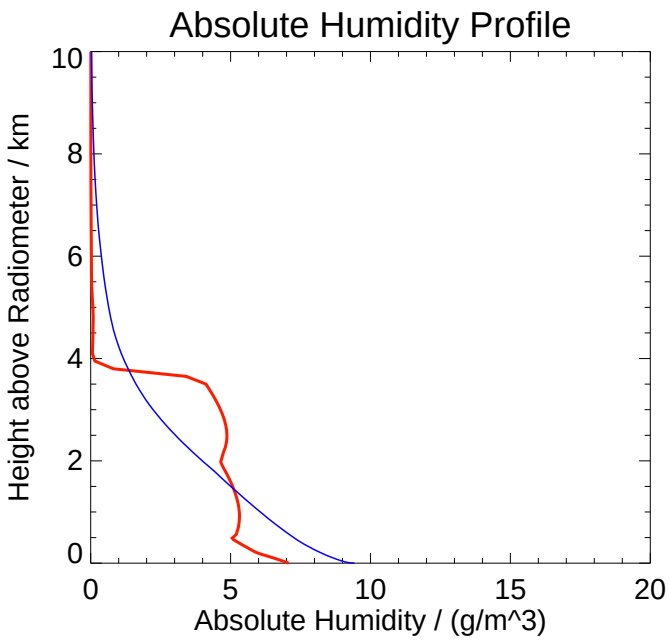

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8.5
9.0
9.5
10.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
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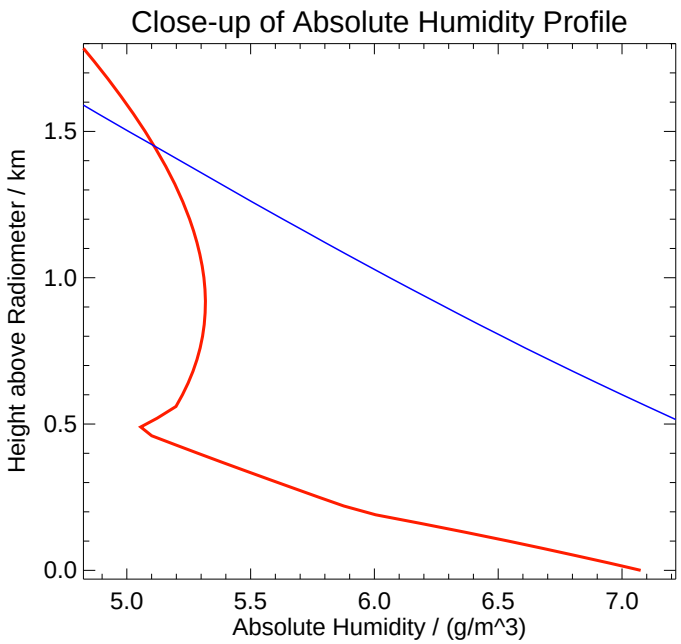
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
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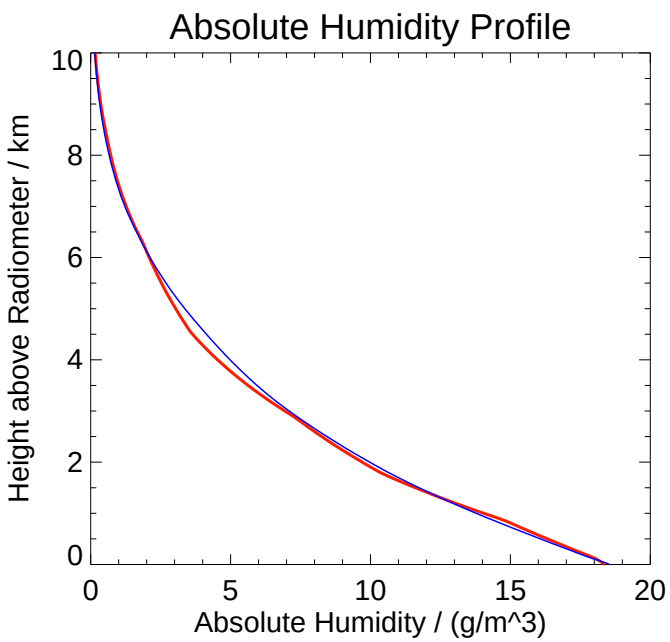
1.5
5.0
5.5
6.0
6.5
7.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
5
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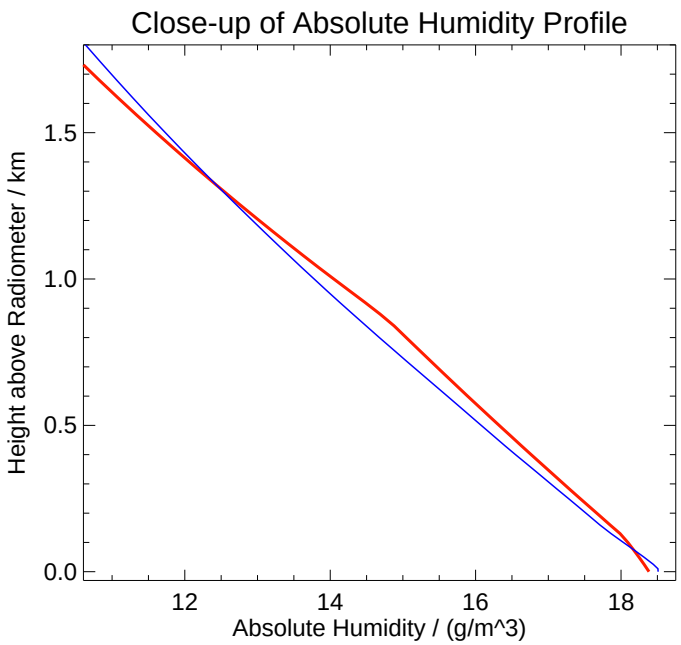
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
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16
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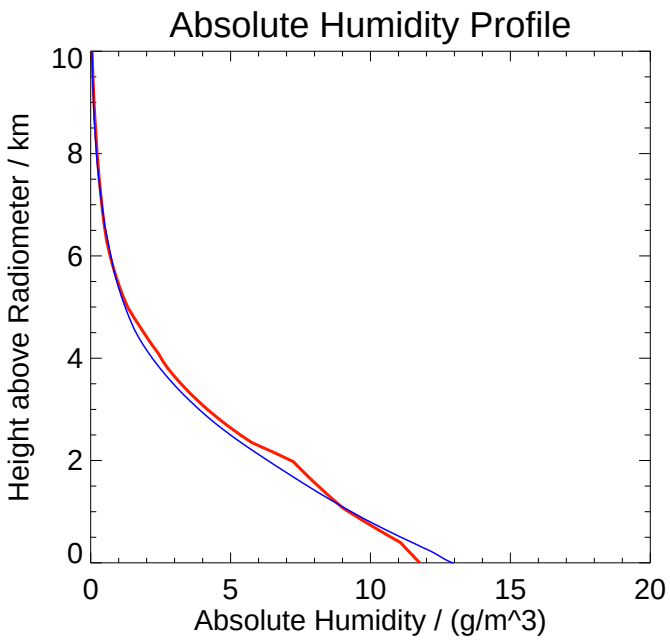
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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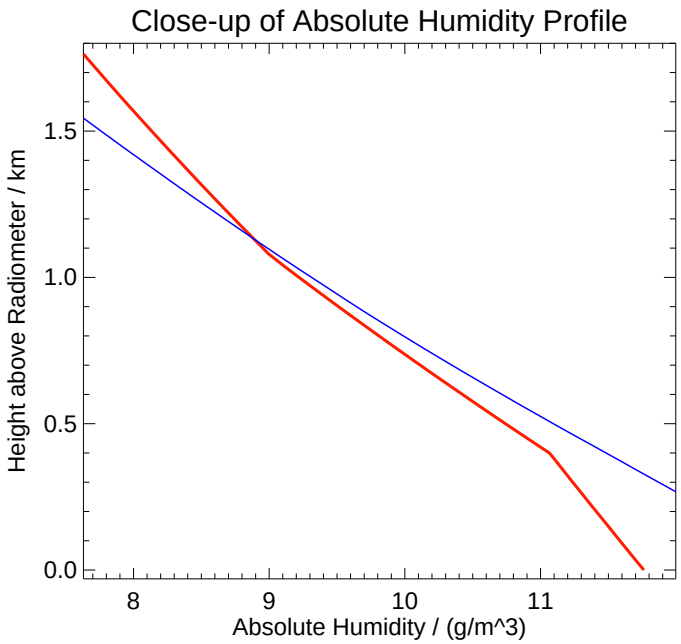
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8
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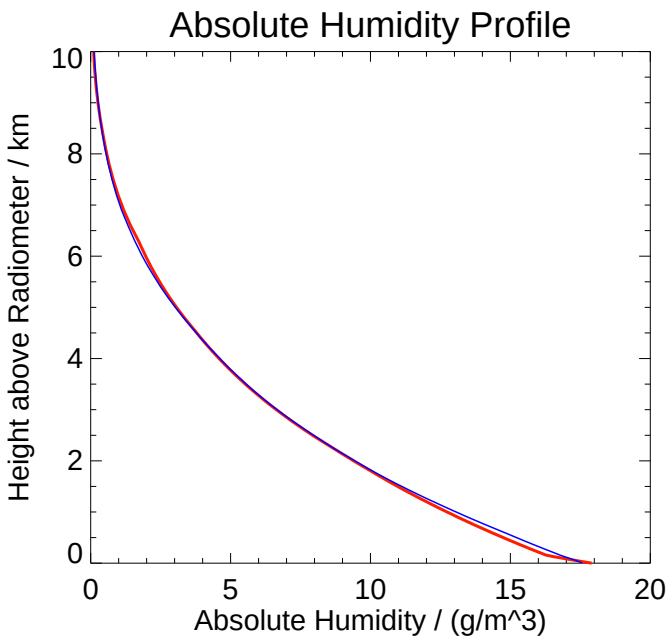
10
11


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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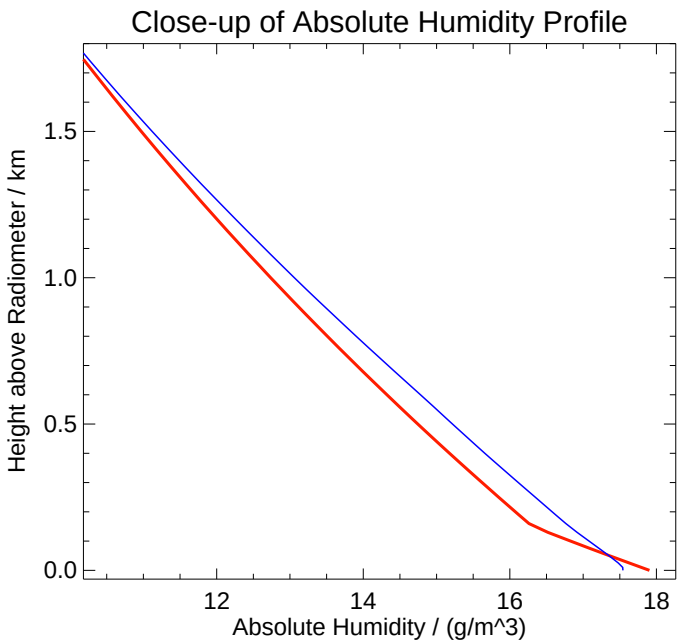
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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16
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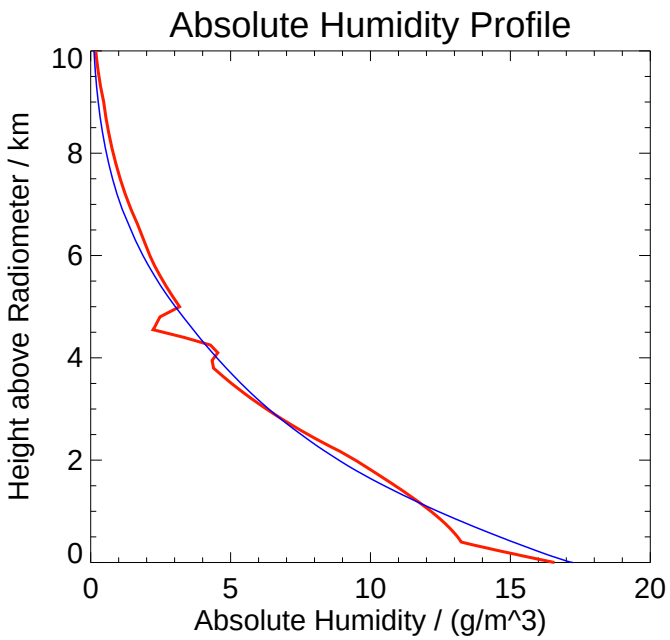
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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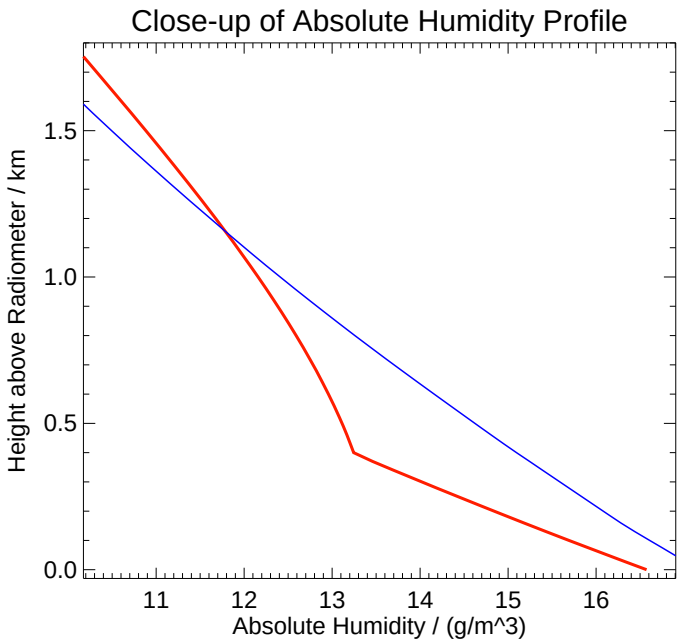
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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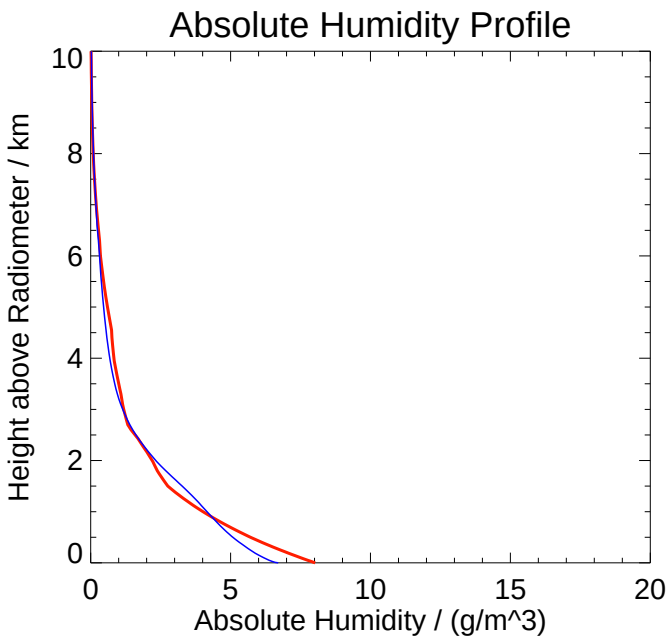
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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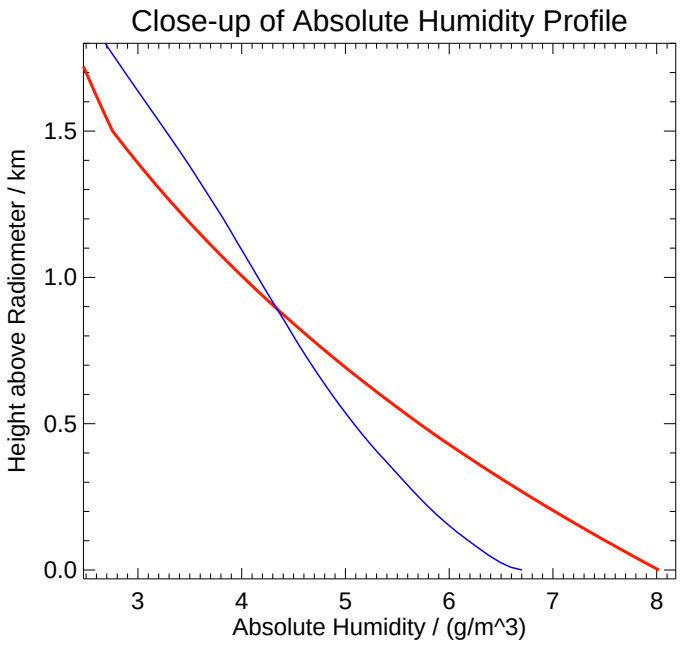
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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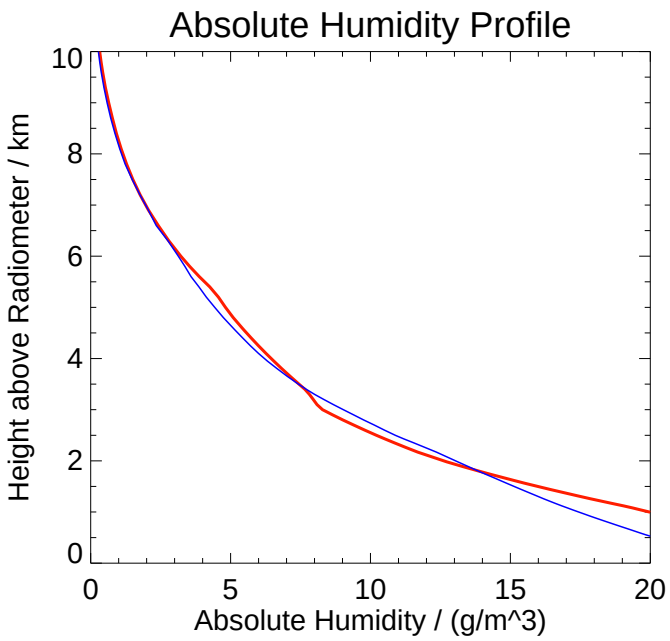
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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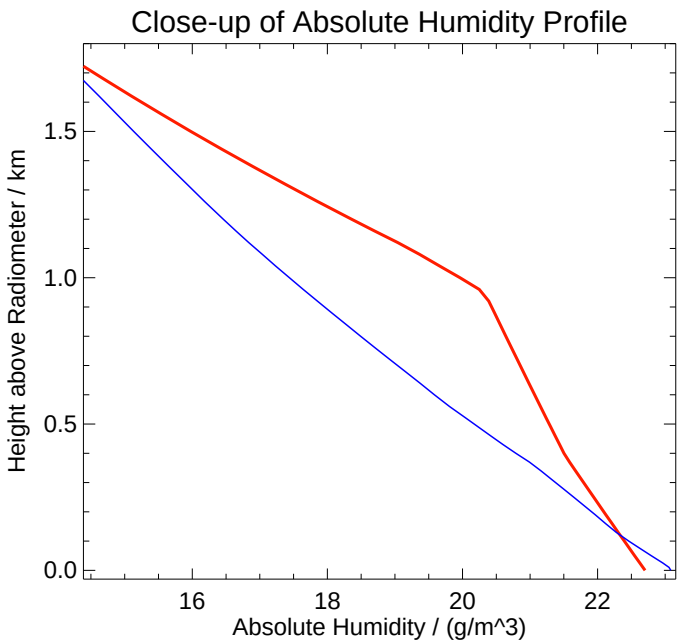
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
16
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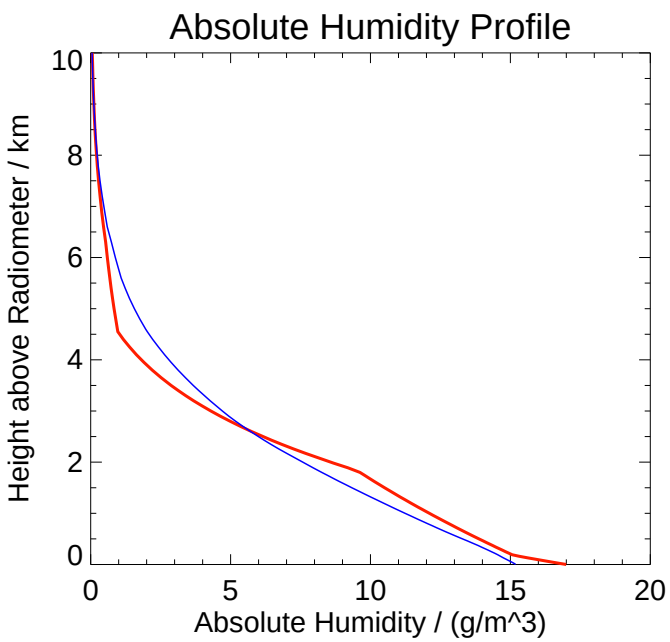
20
22


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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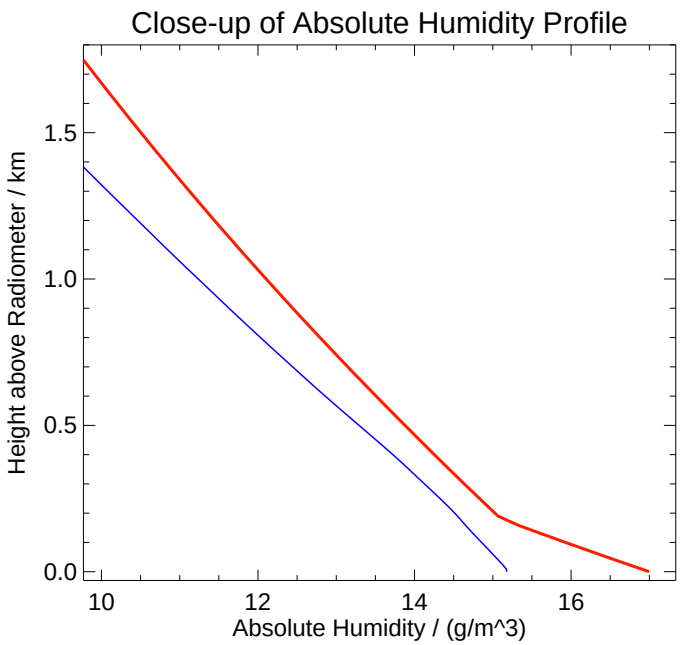
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
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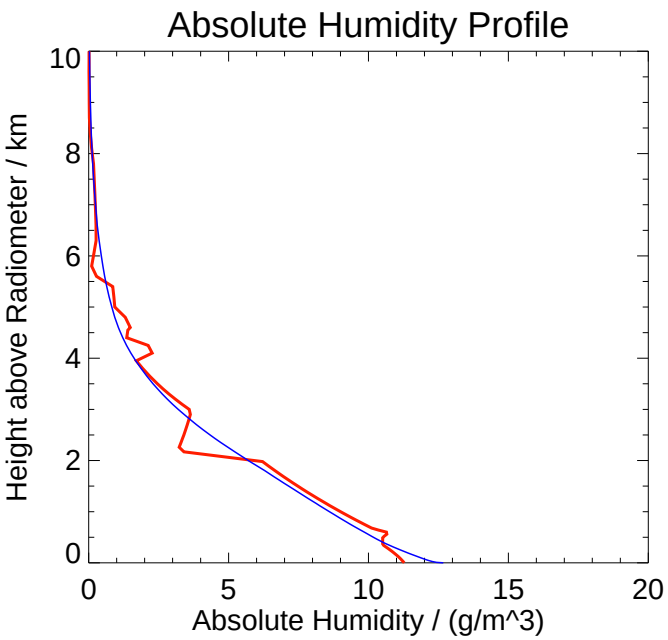
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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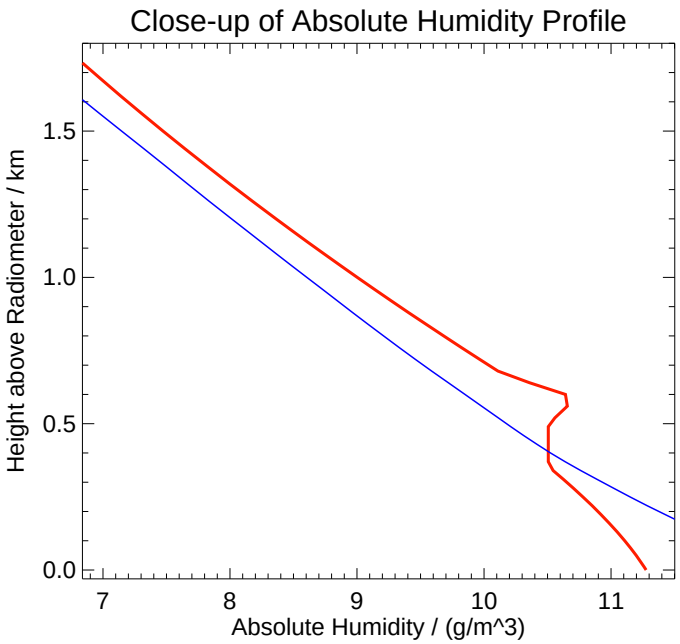
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
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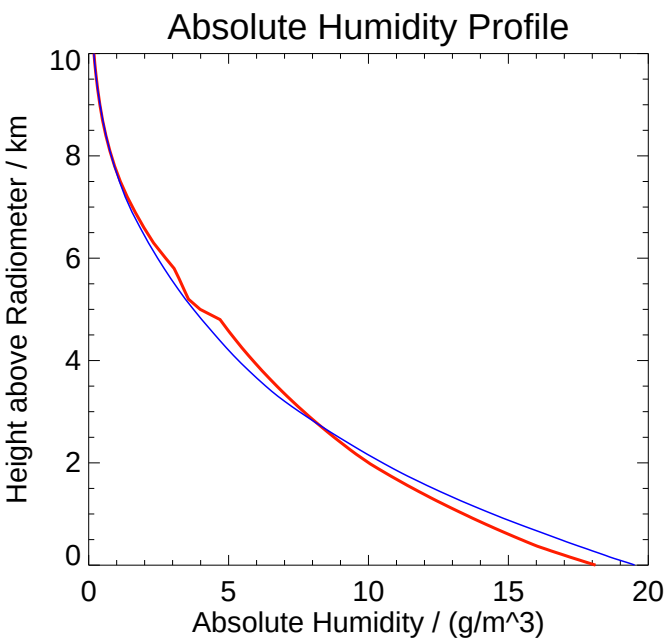
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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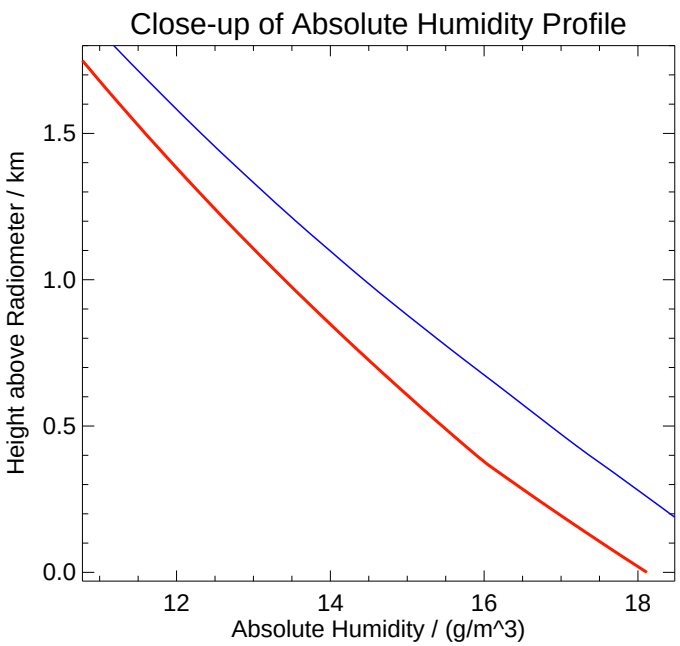
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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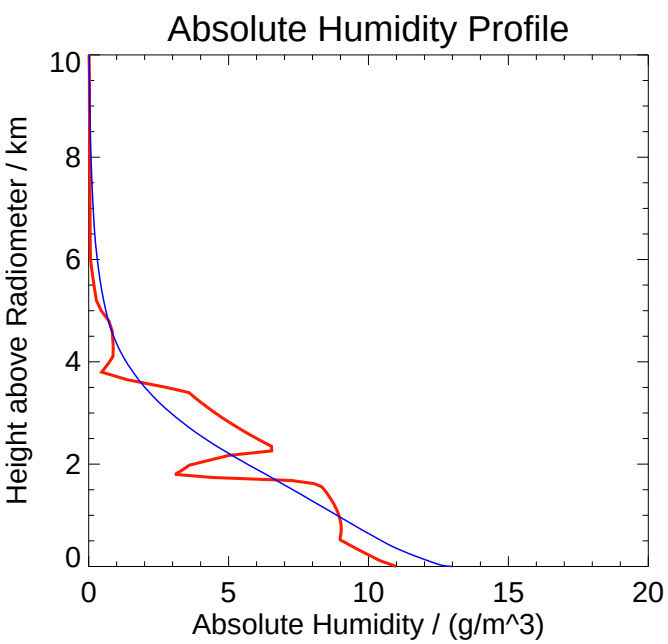
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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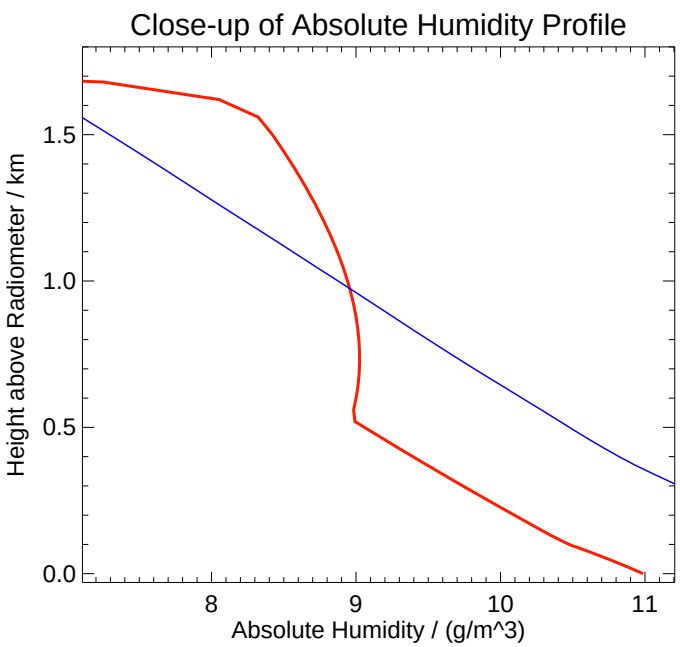
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
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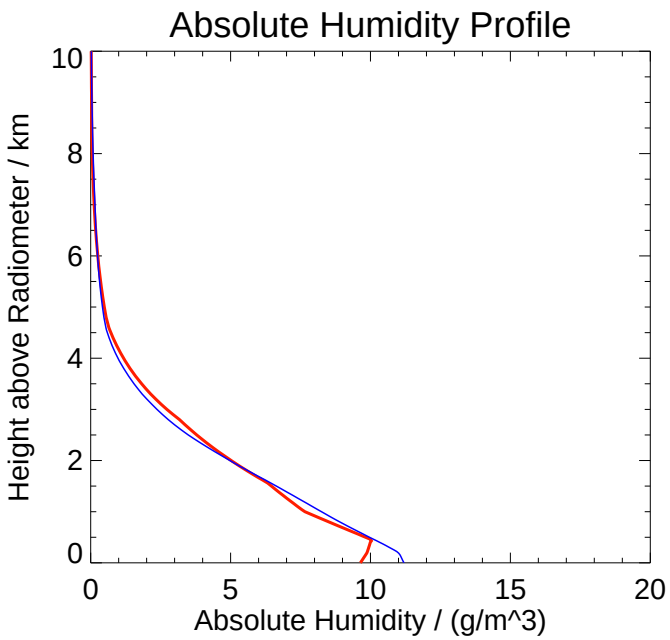
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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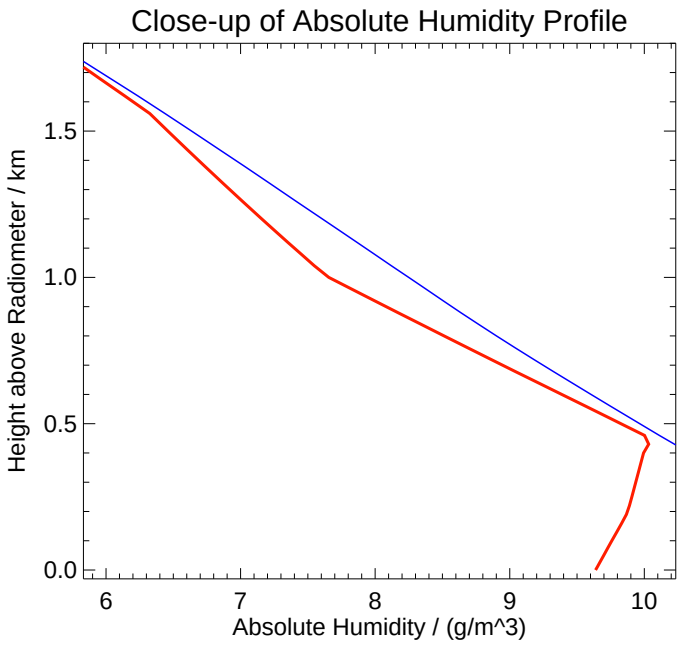
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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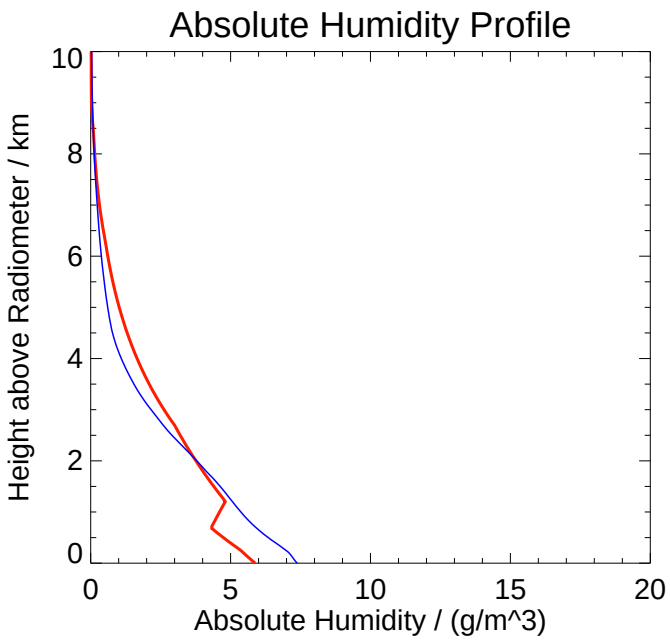
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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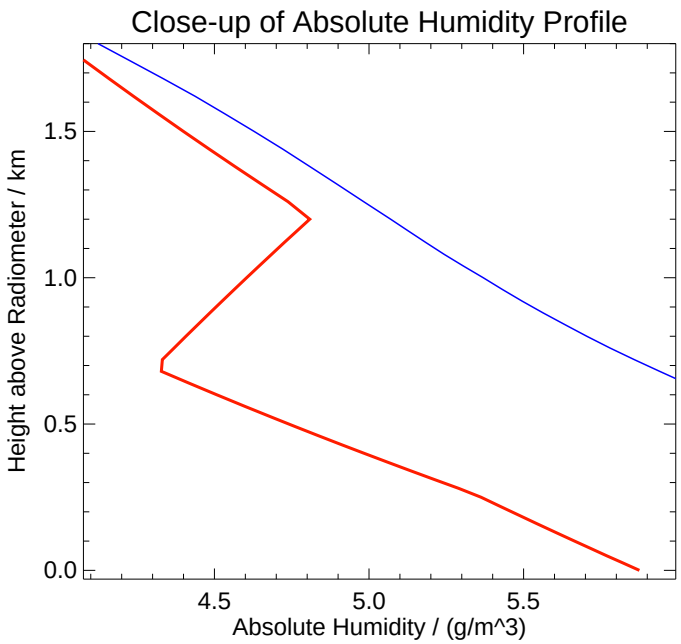
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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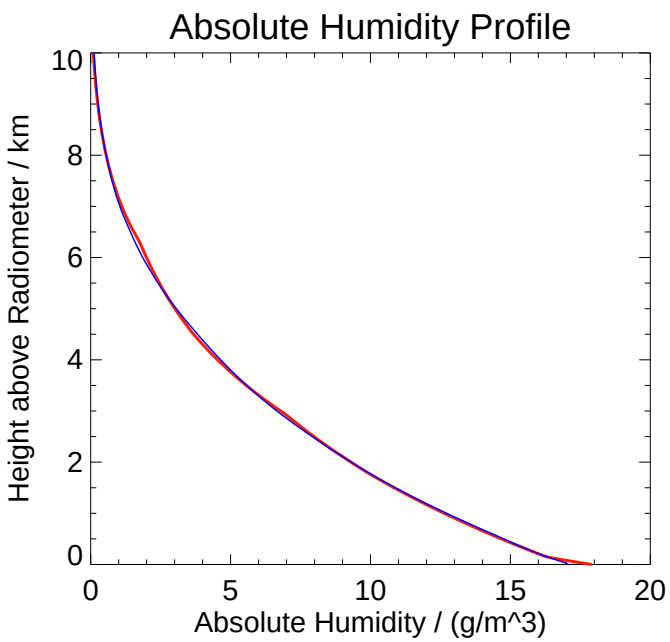
0.5
1.0
1.5
4.5
5.0
5.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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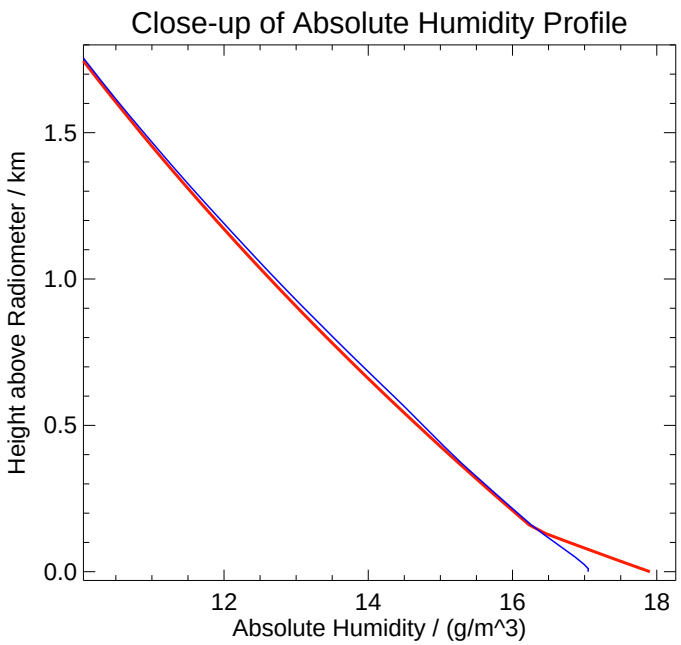
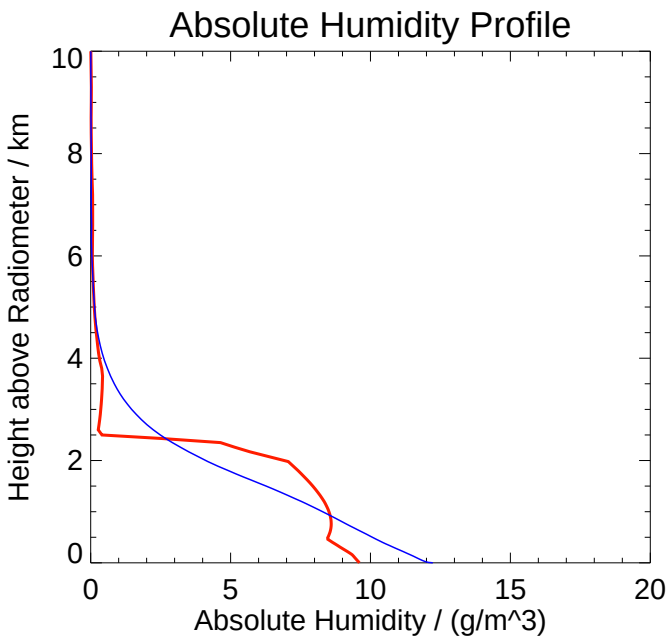

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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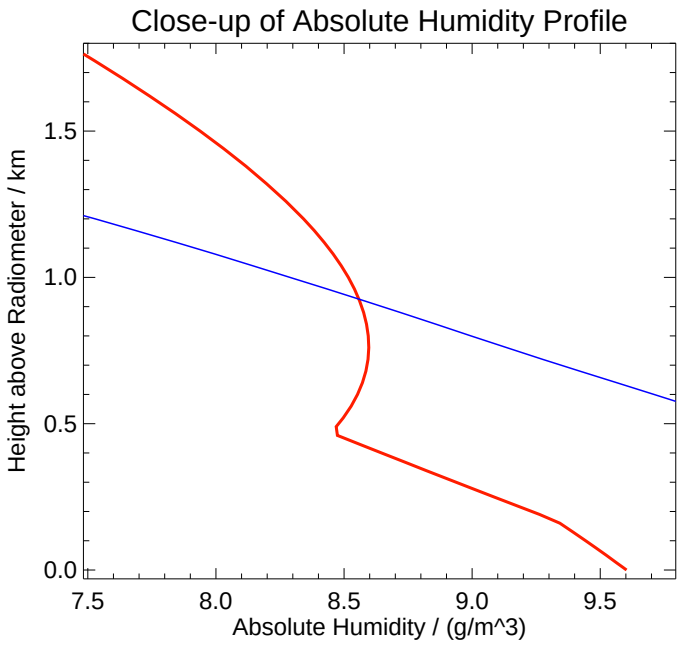
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
7.5
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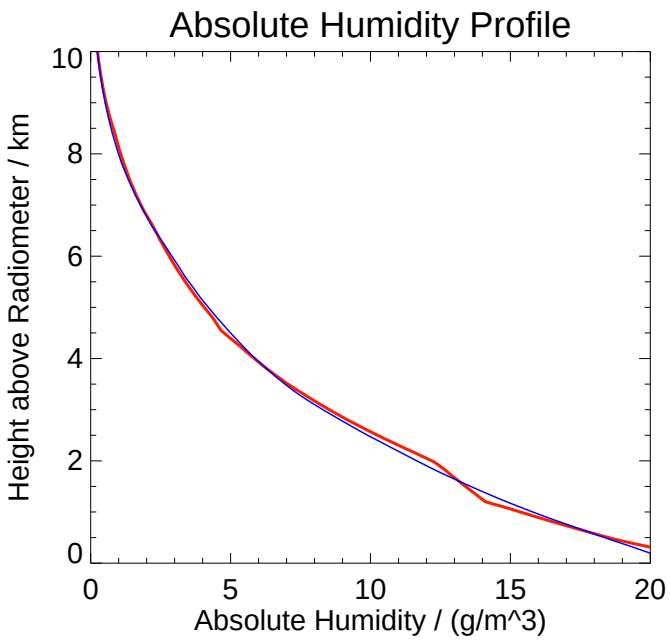
9.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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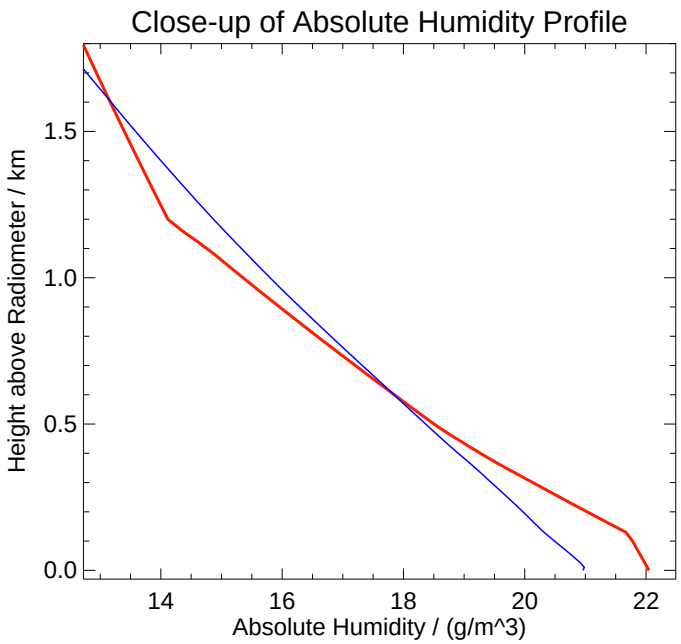
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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16
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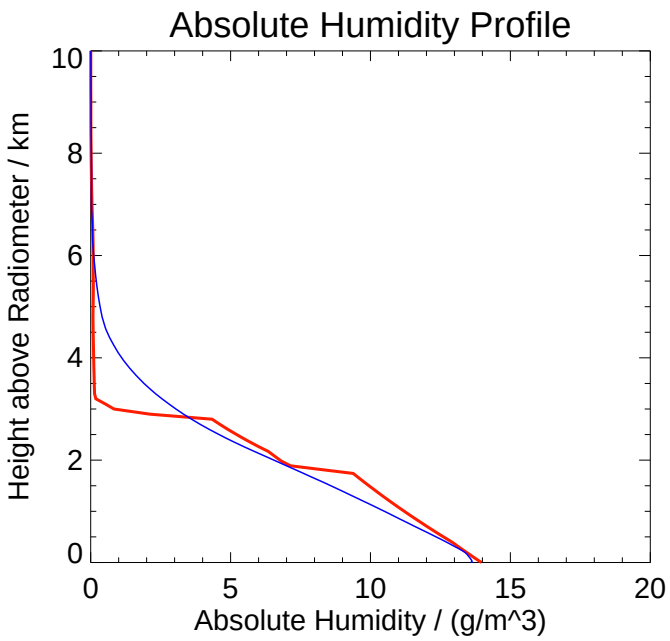
22


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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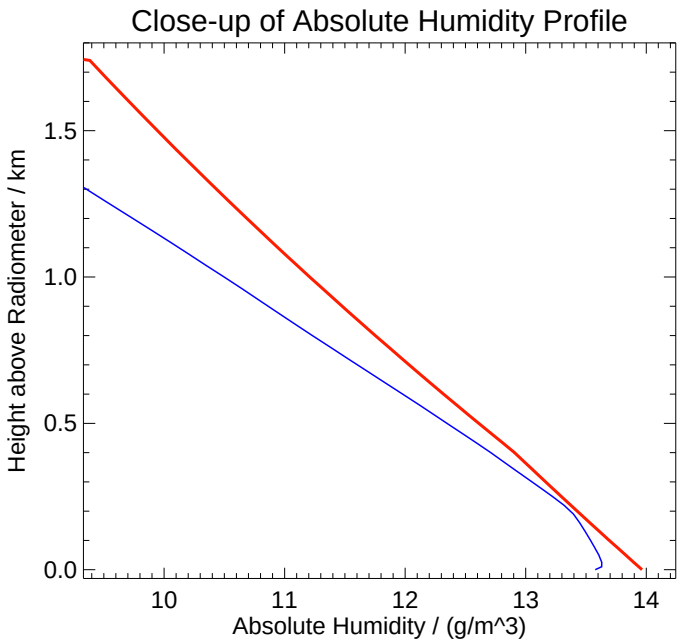
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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11
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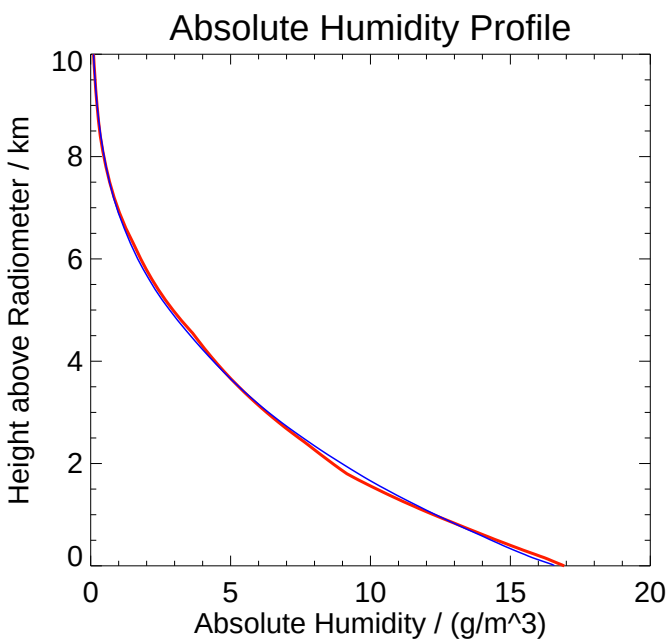
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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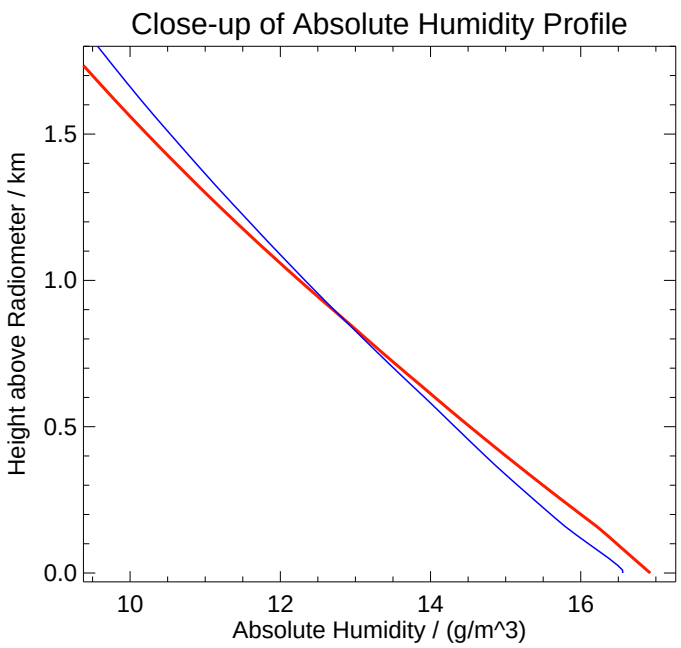
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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12
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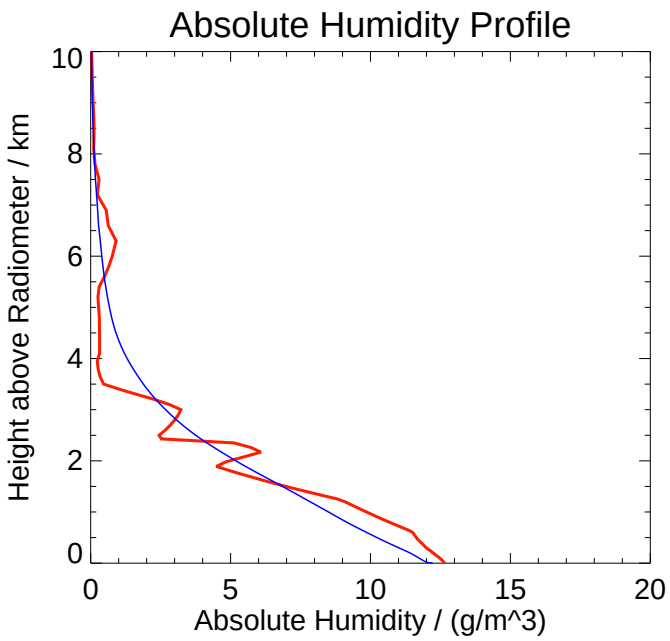
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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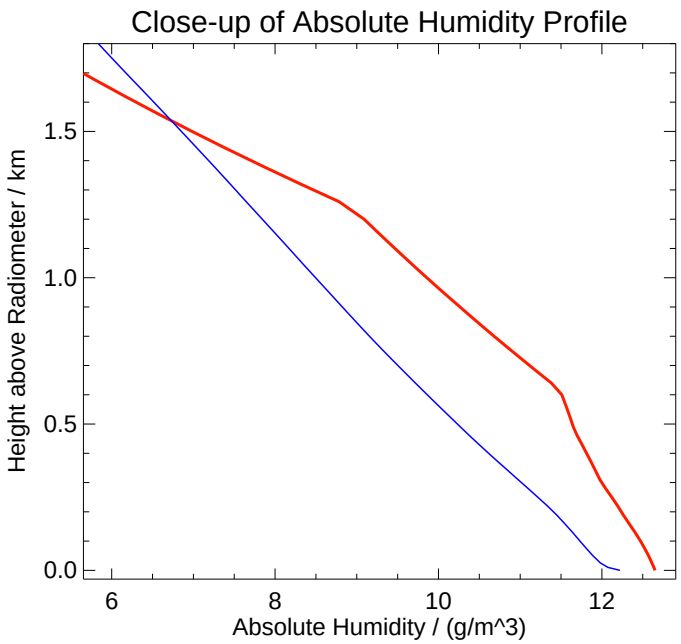
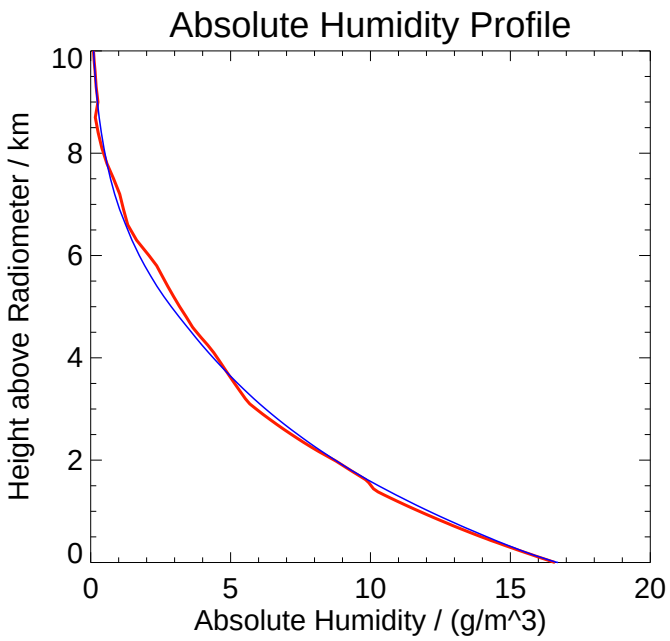

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
8
10
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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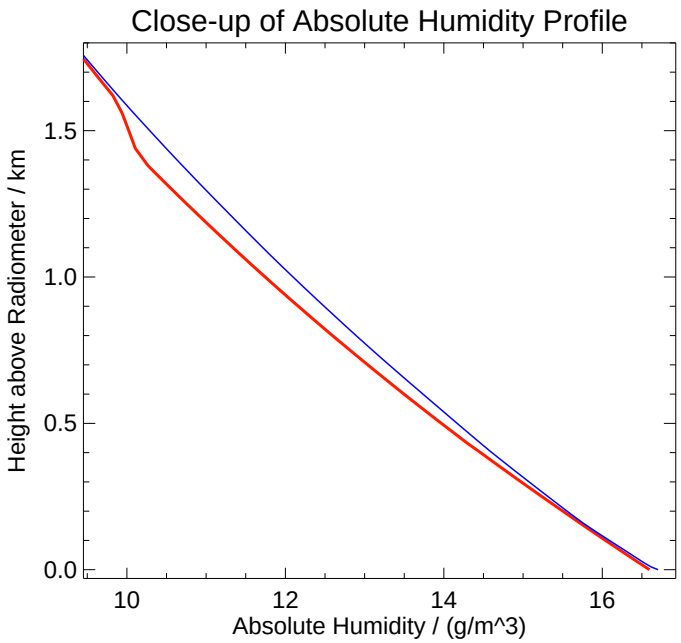
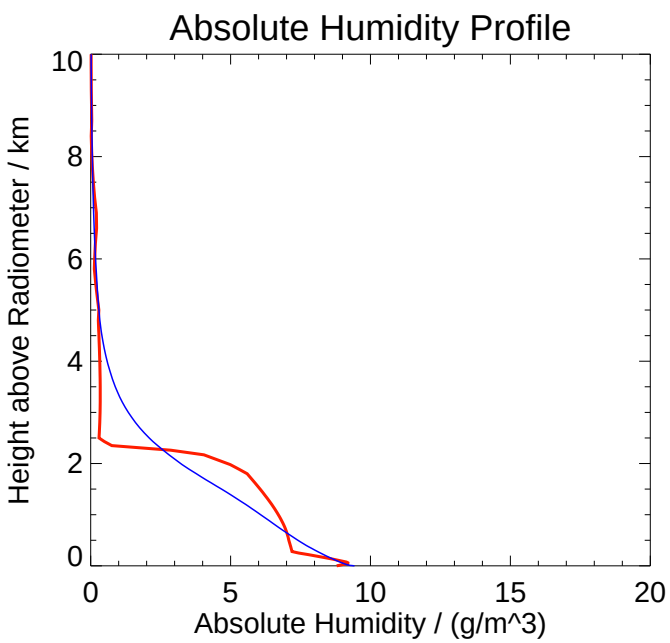
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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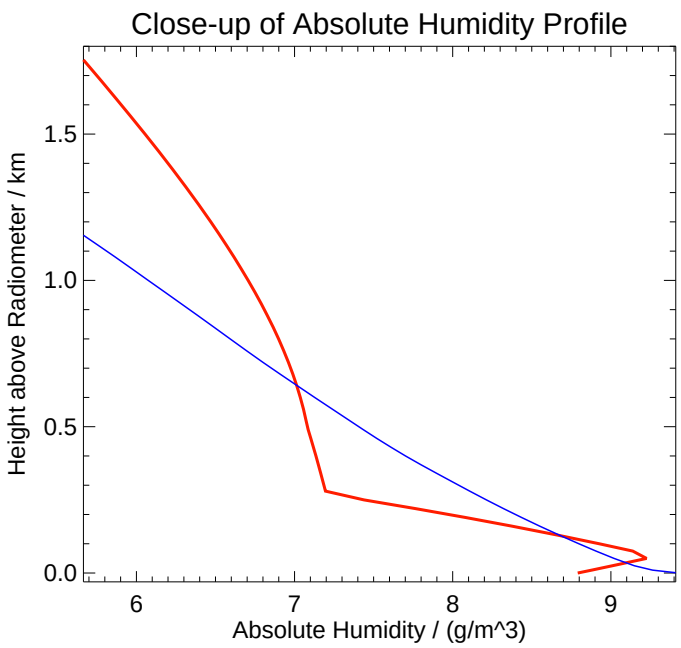
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
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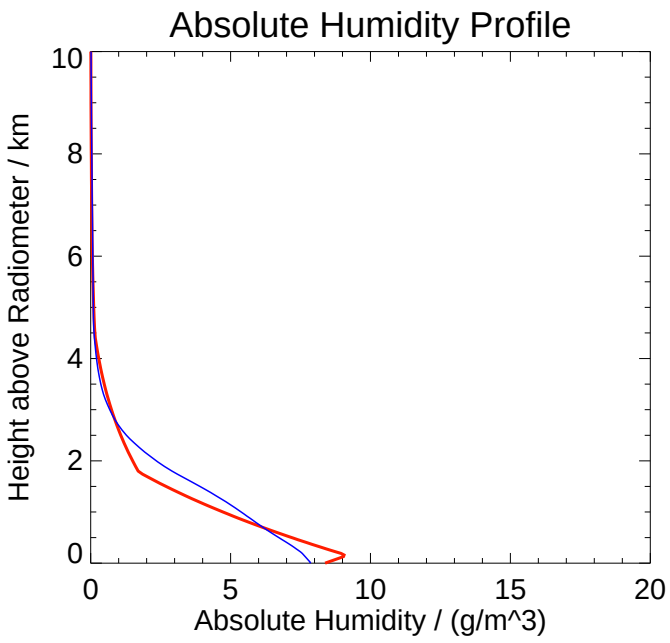
8
9


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
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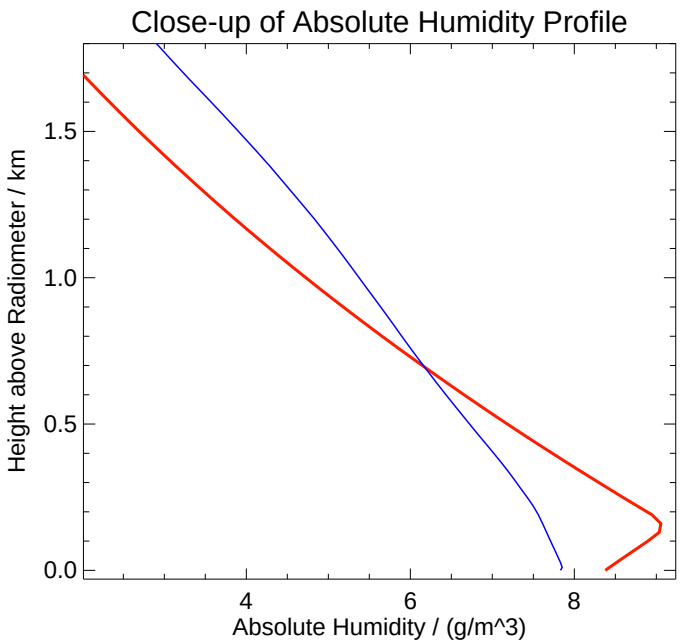
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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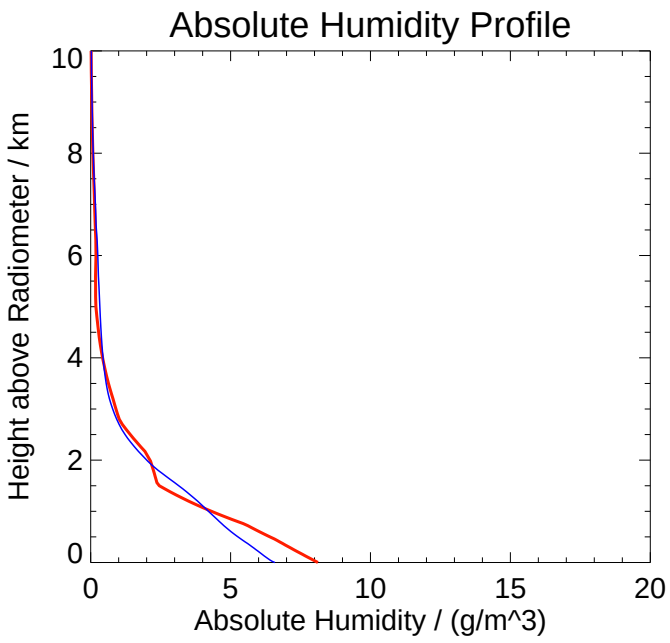
6
8


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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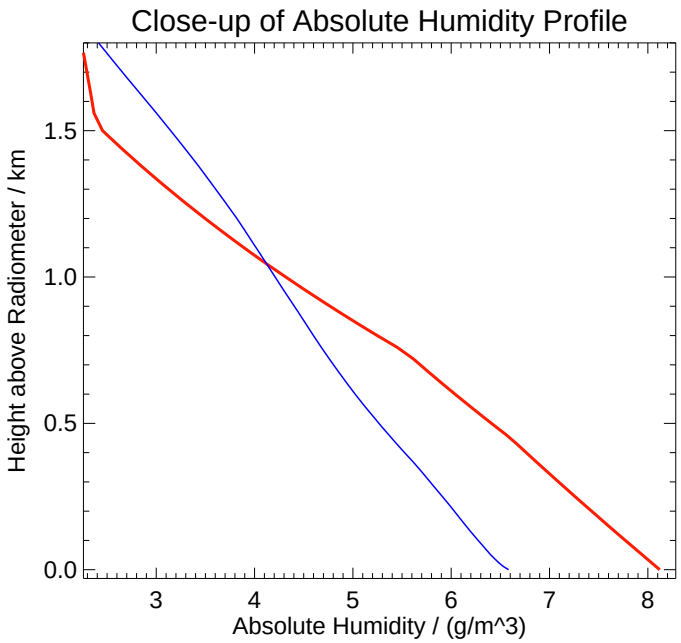
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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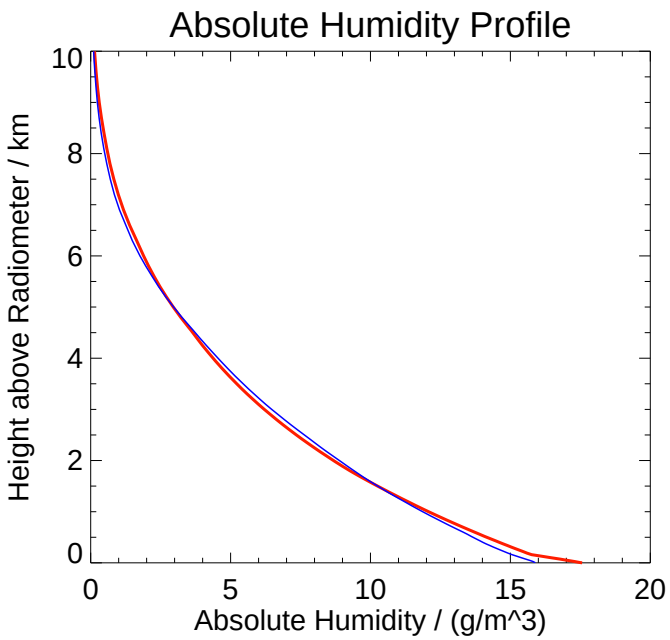
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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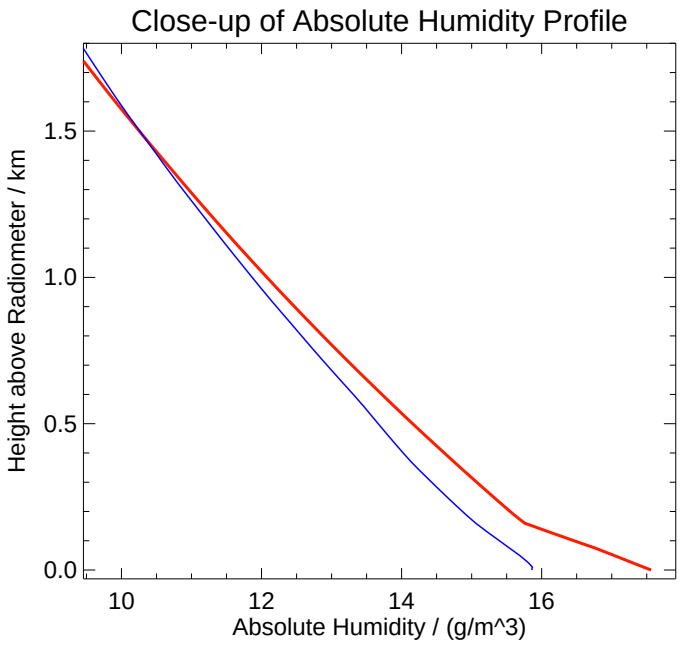
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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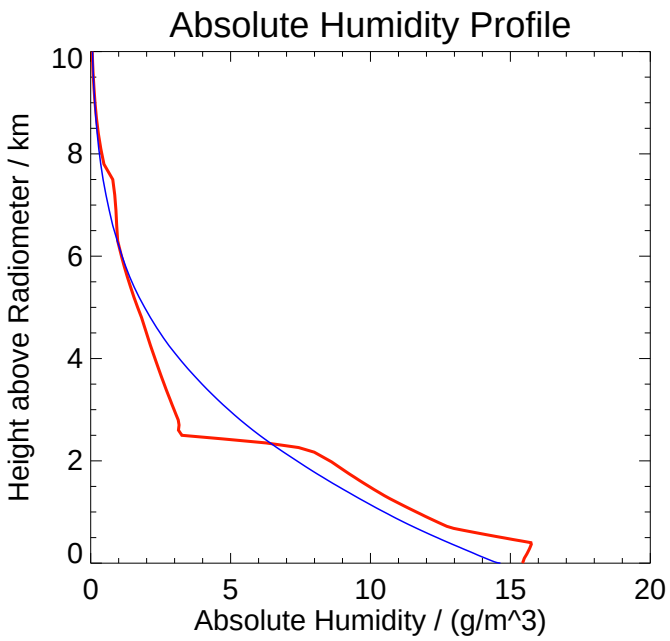
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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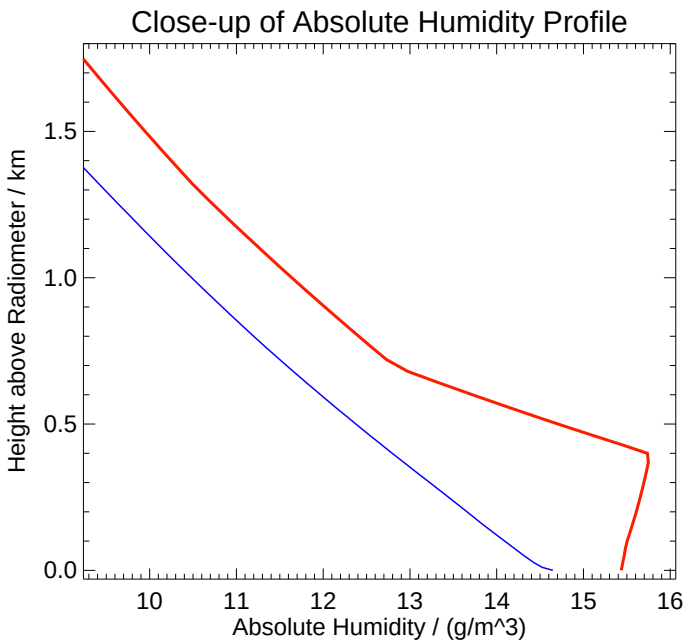
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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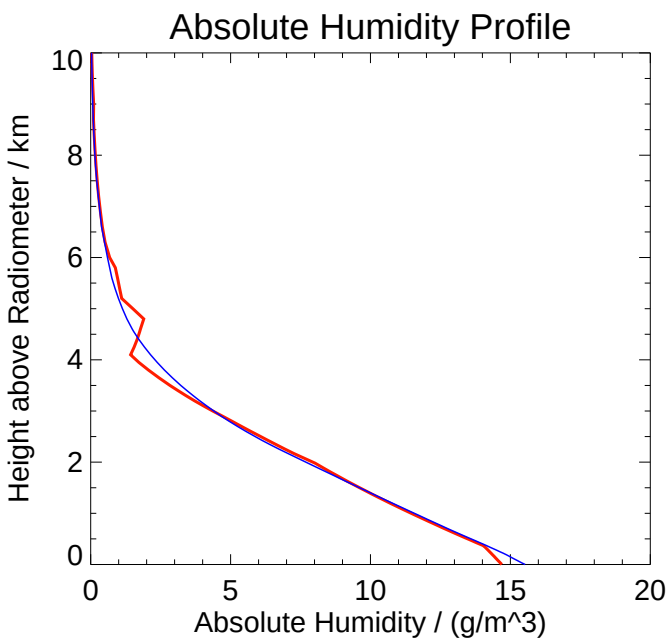
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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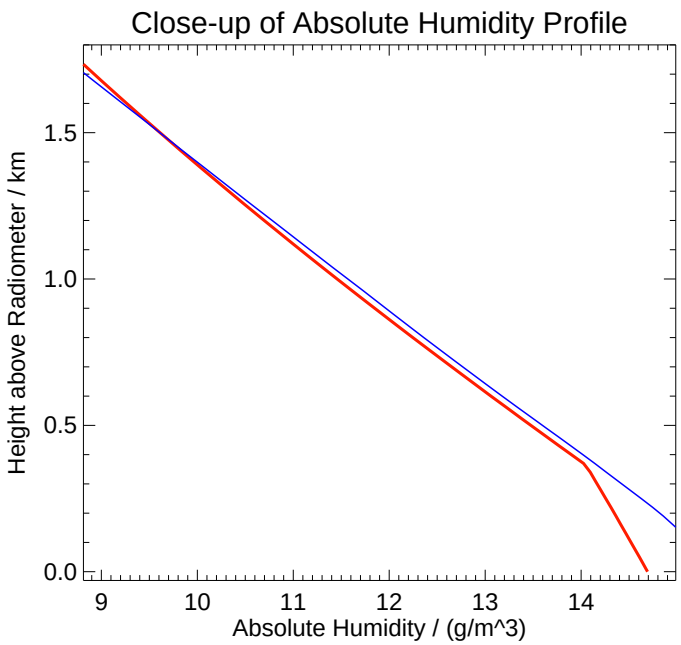
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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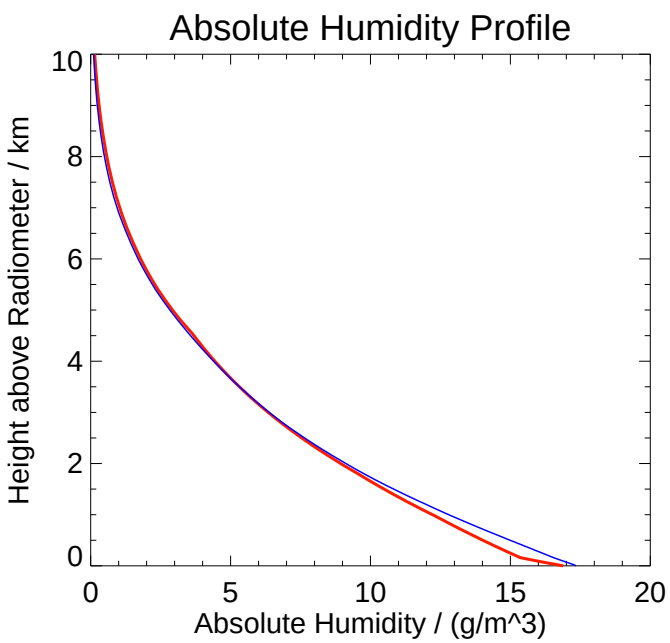
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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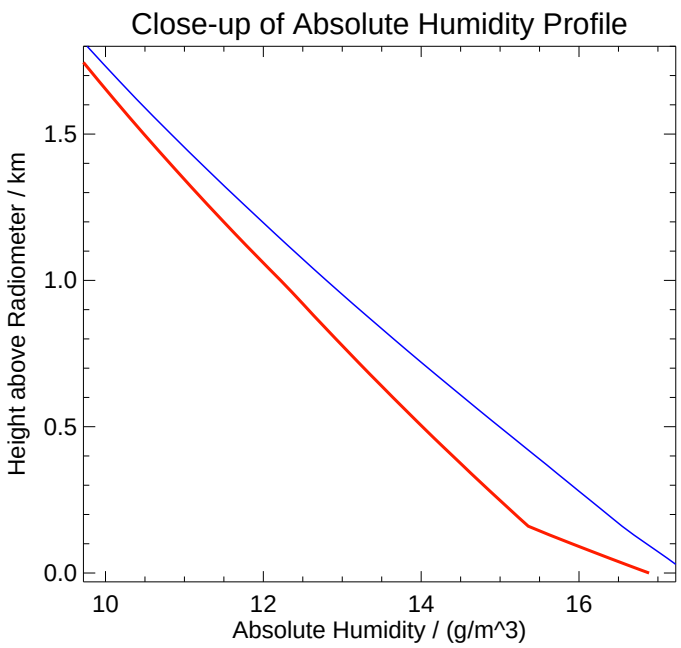
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
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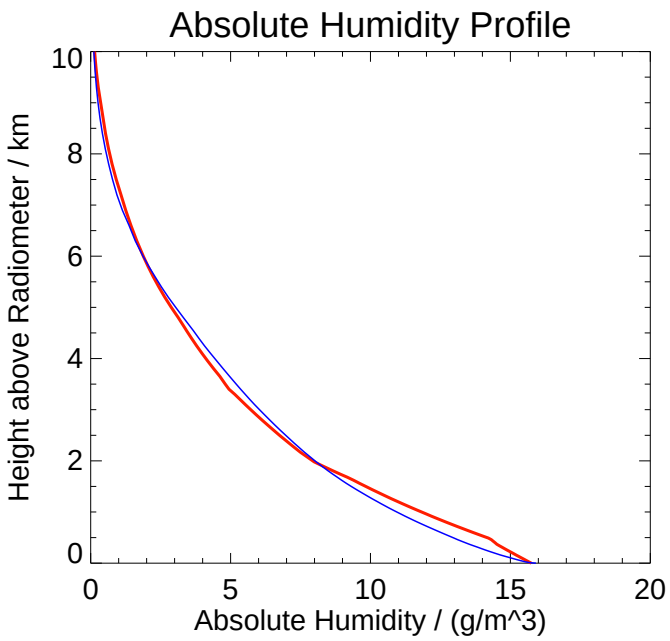
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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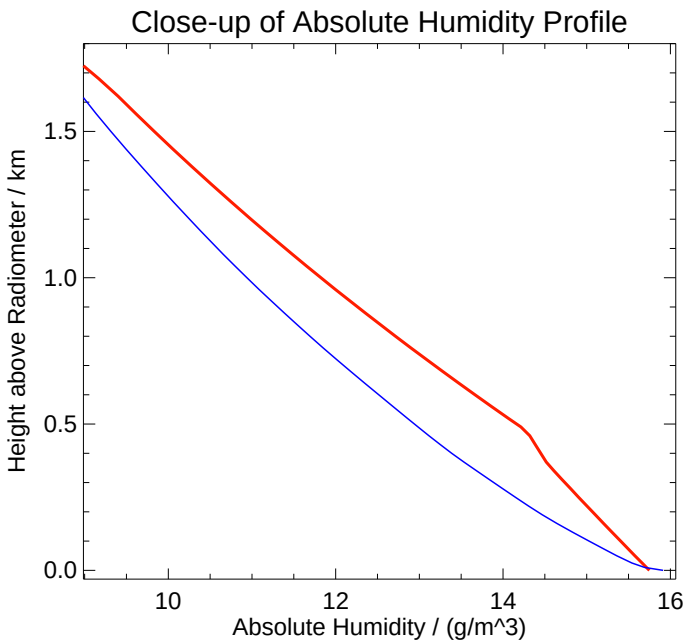
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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1.0
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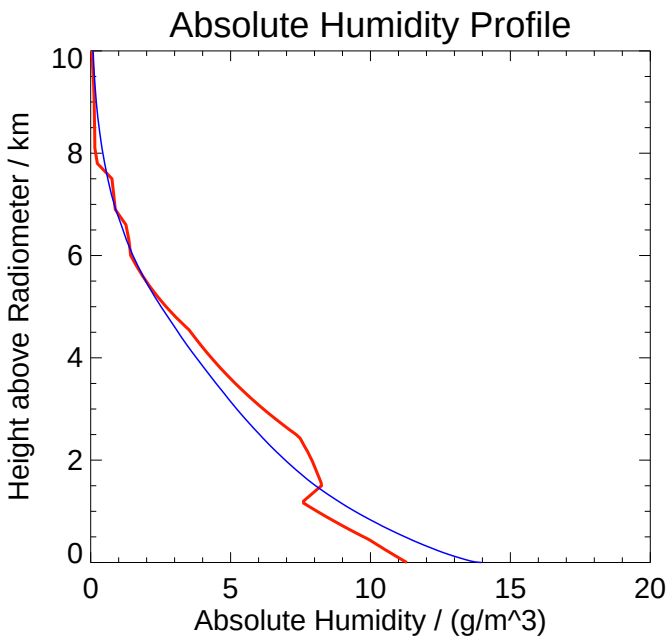
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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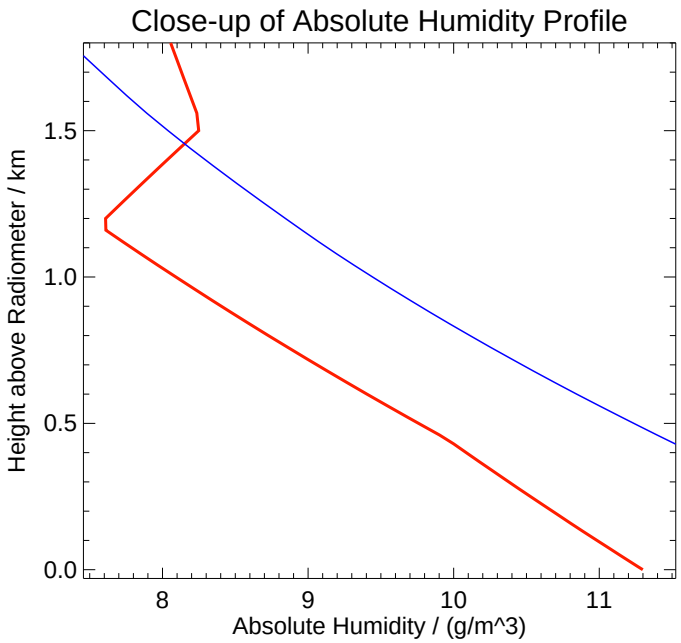
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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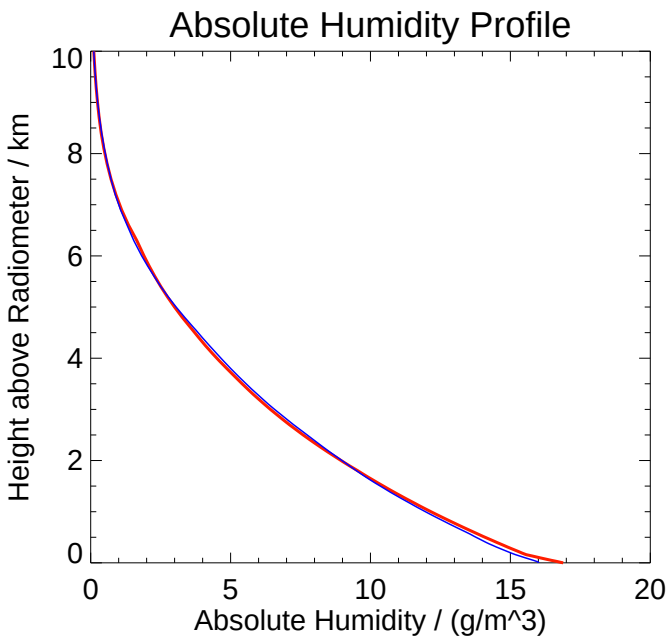
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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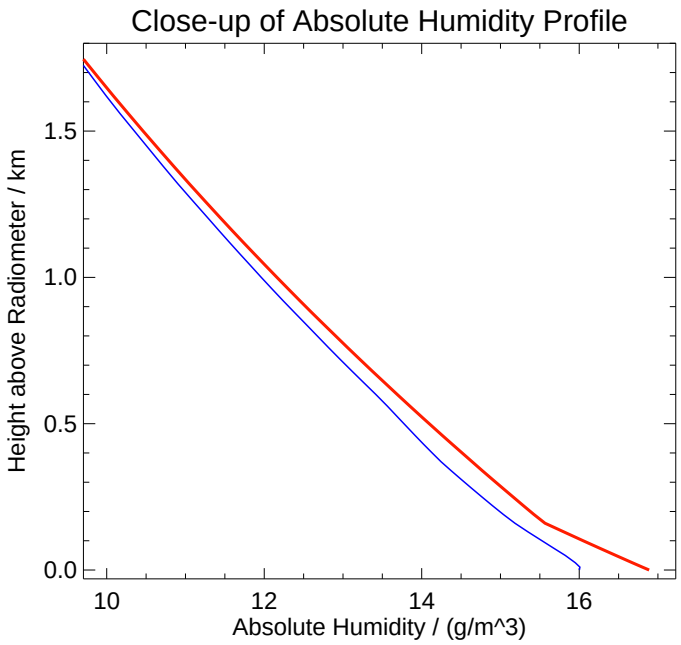
Close-up of Absolute Humidity Profile
Height above Radiometer / km
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0.5
1.0
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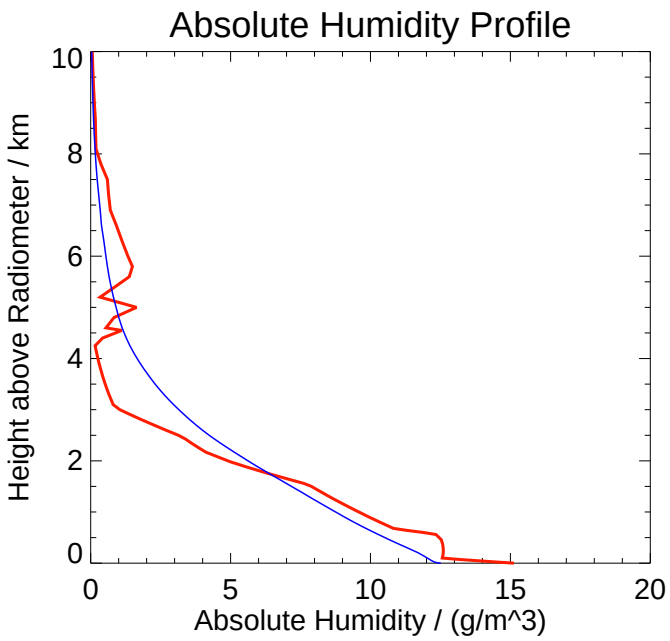
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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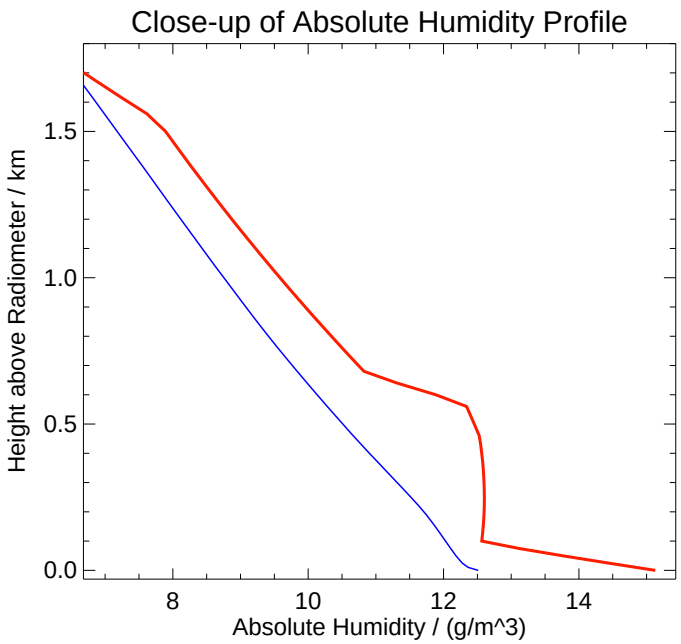
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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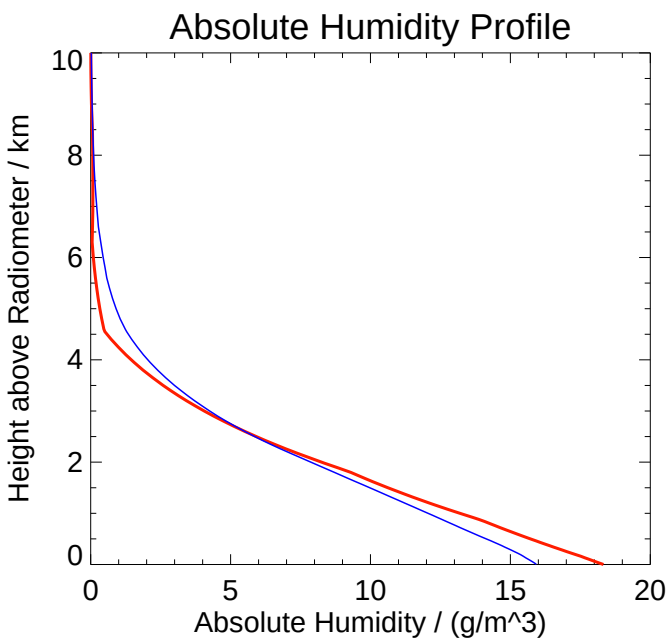
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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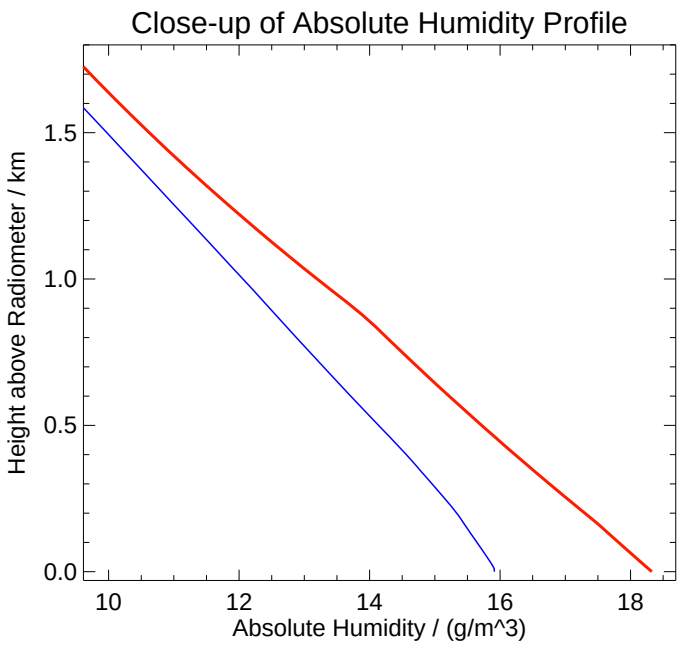
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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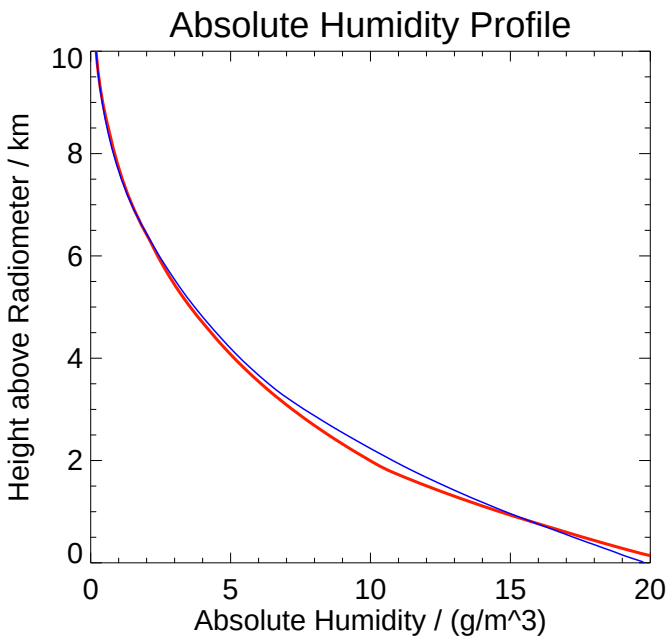
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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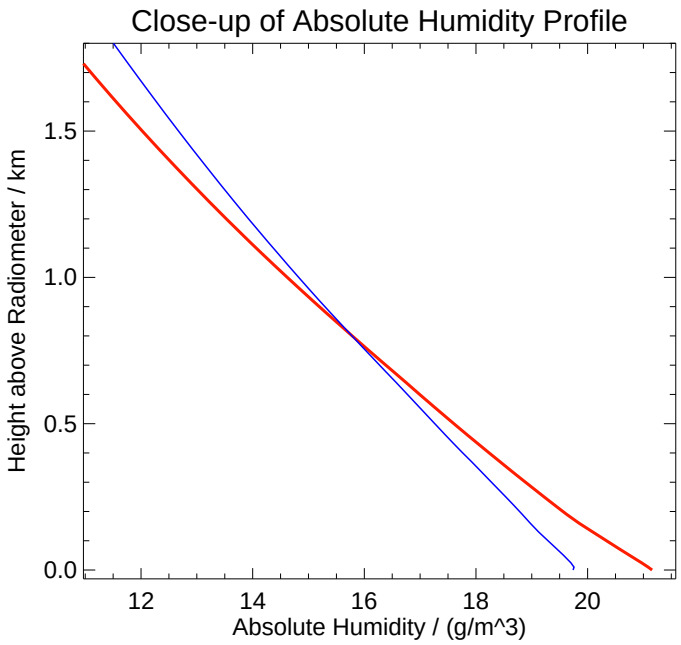
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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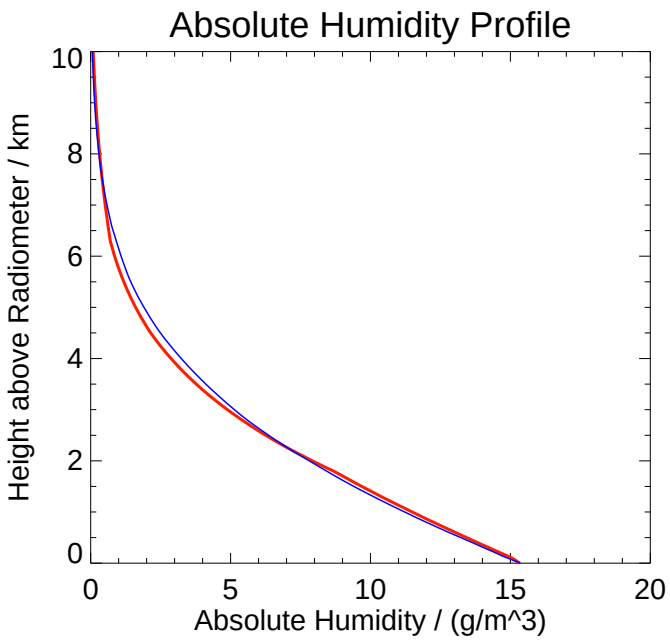
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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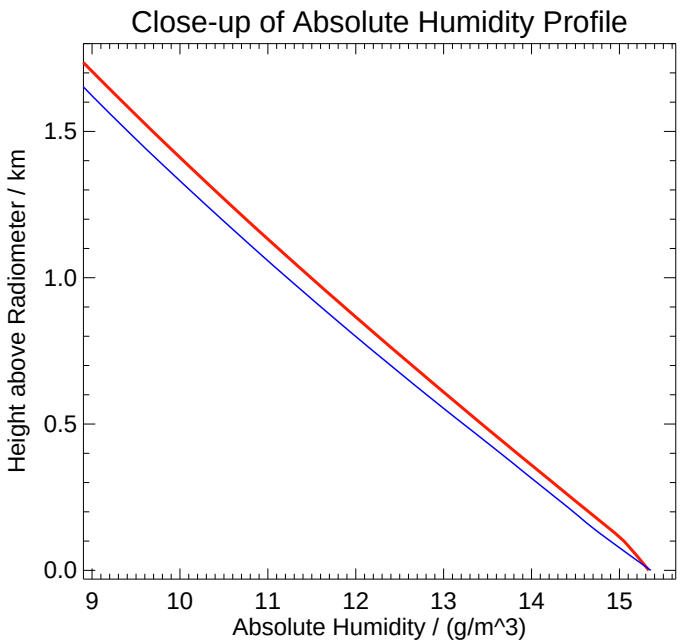
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
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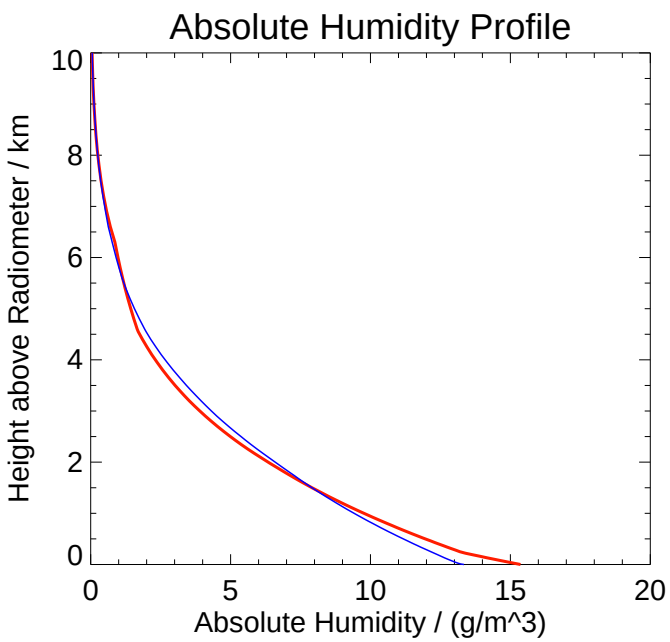
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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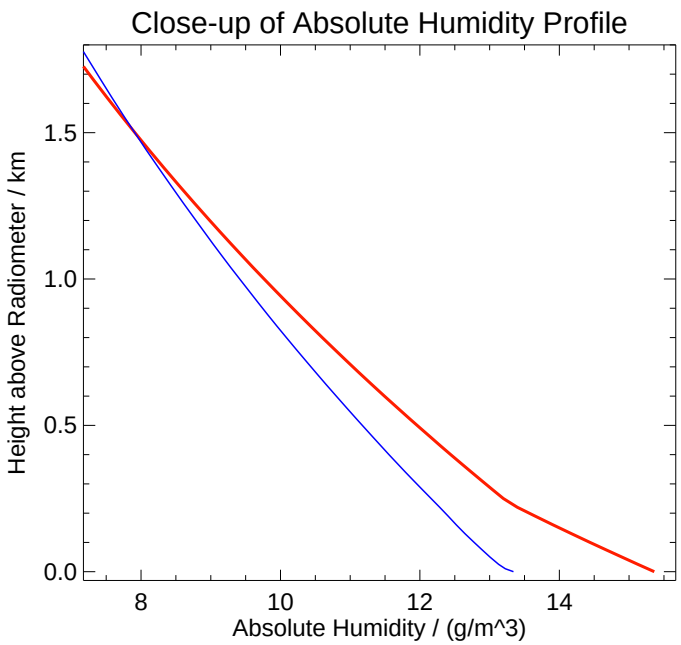
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
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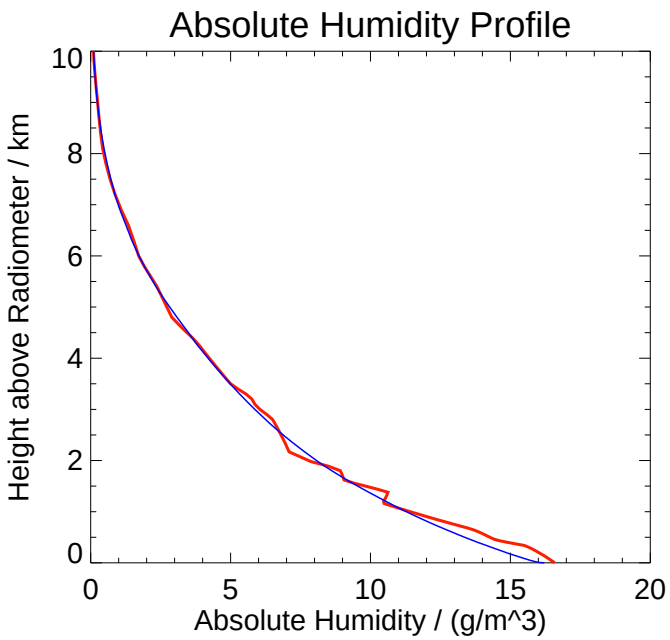
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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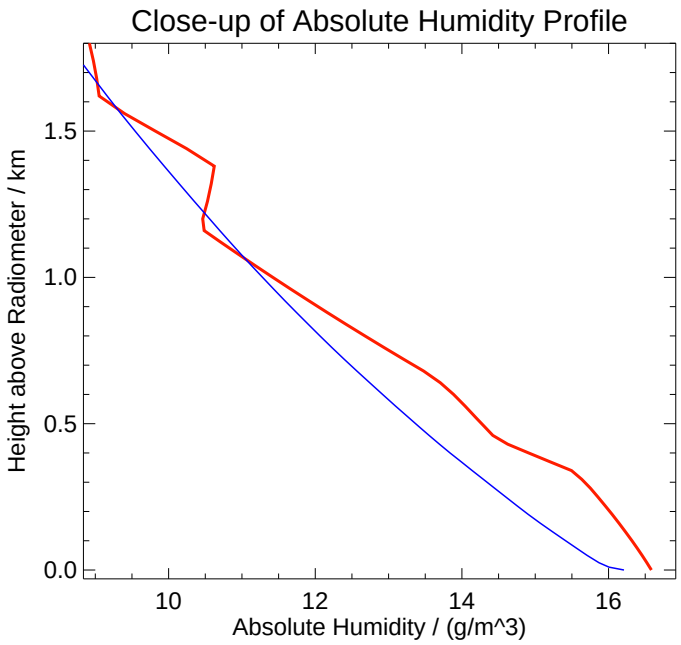
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
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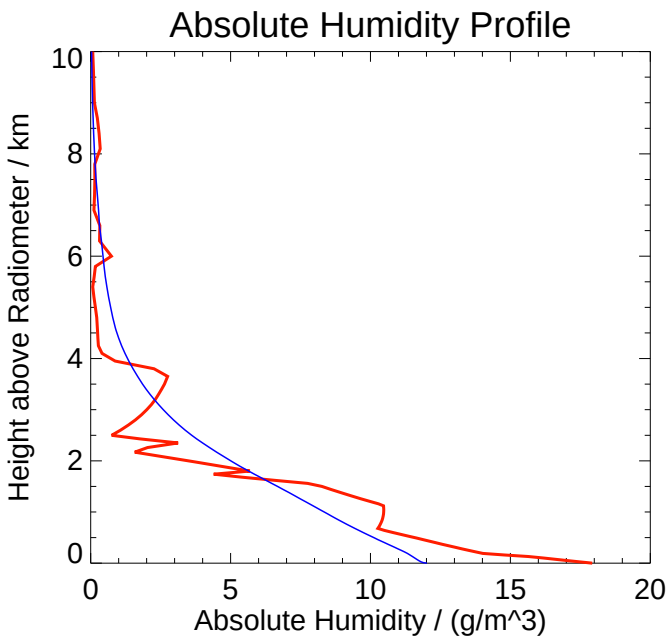
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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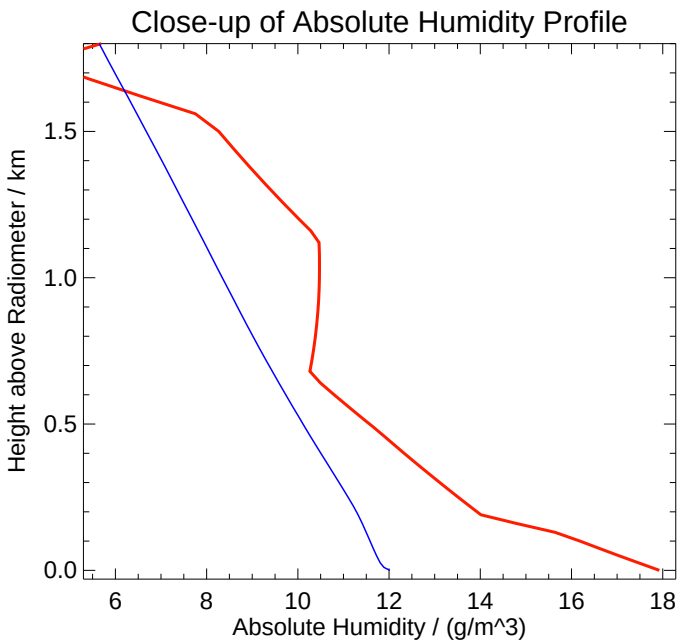
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
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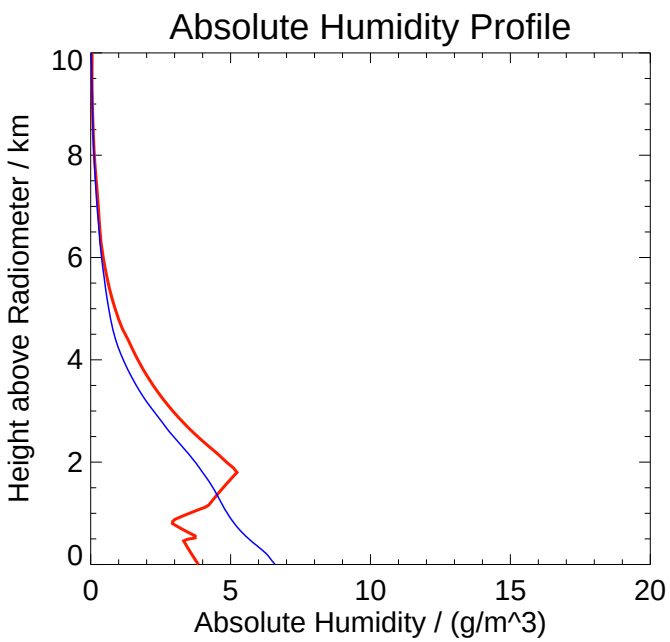
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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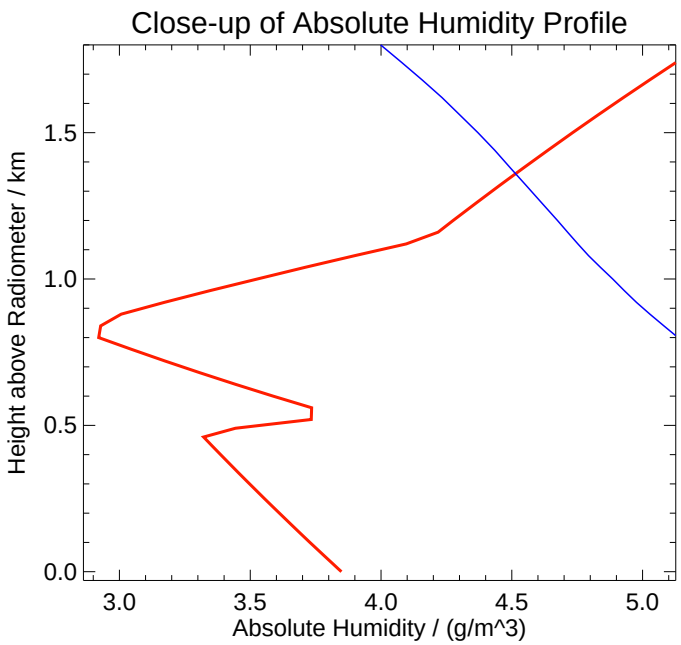
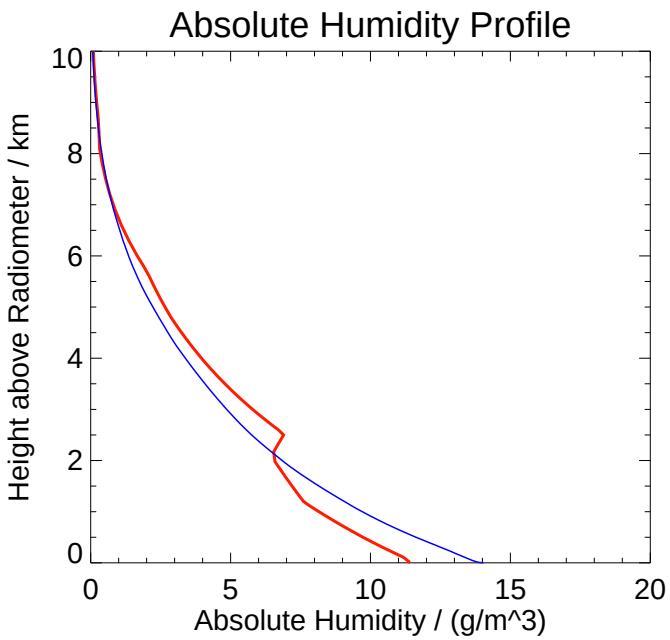

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
3.0
3.5
4.0
4.5
5.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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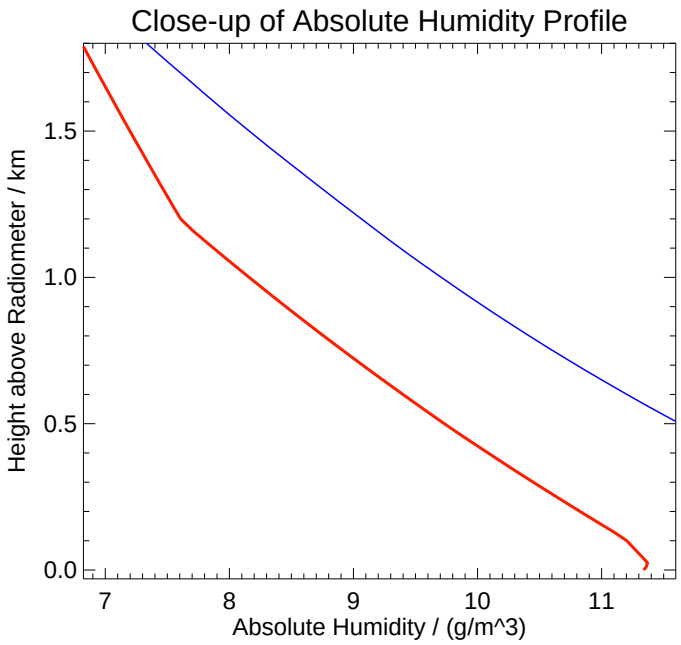
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
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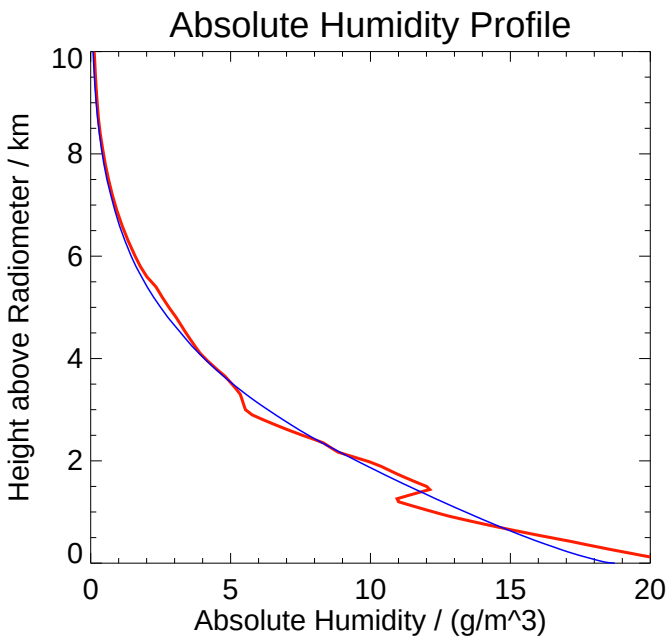
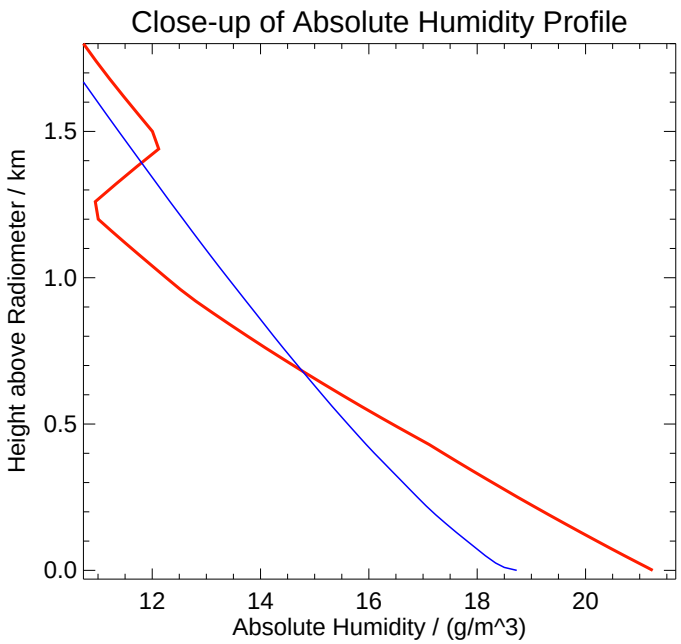
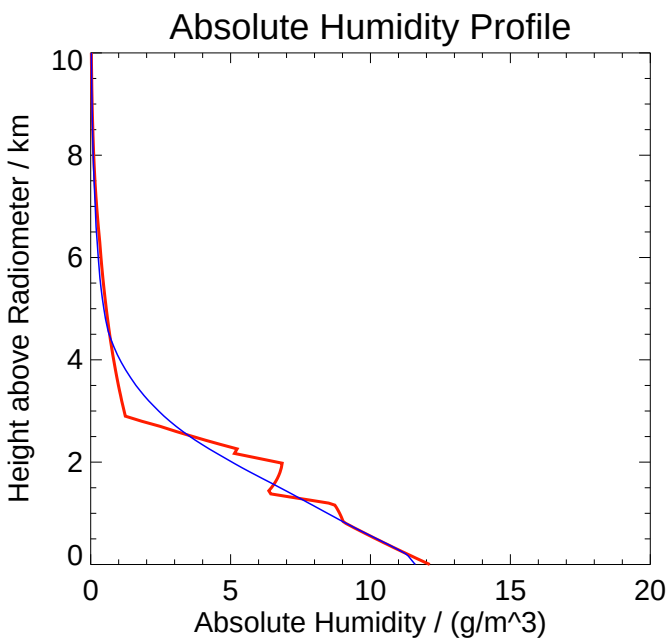
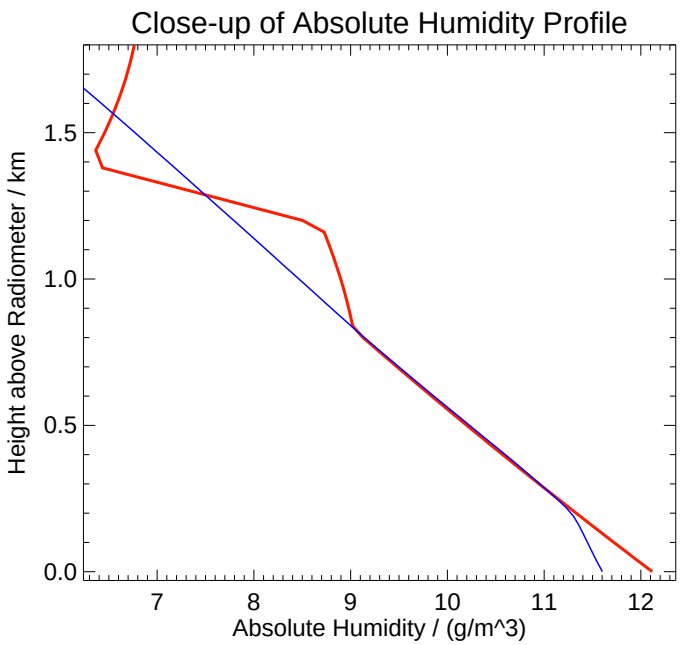
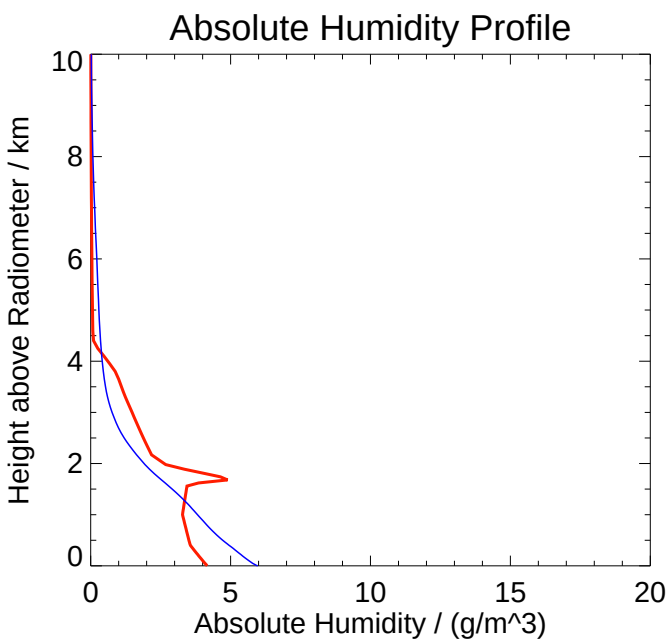
10
11


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18
20


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
7
8
9
10
11
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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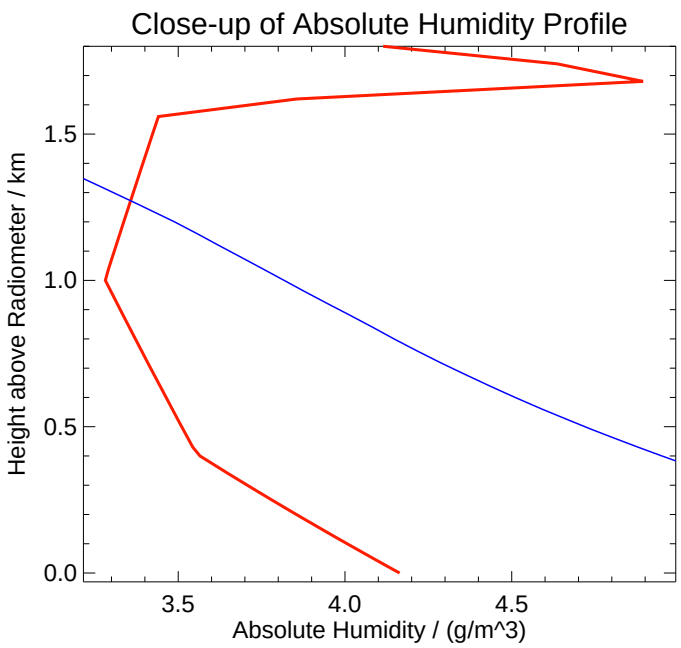
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
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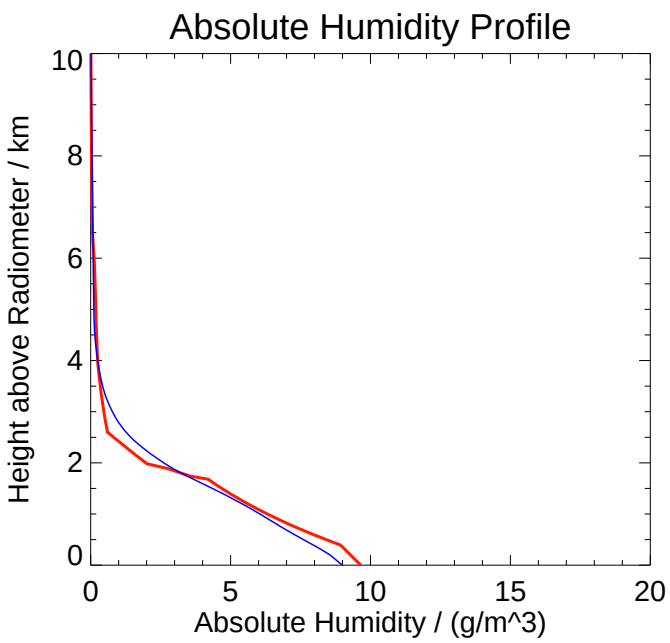
3.5
4.0
4.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
5
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15
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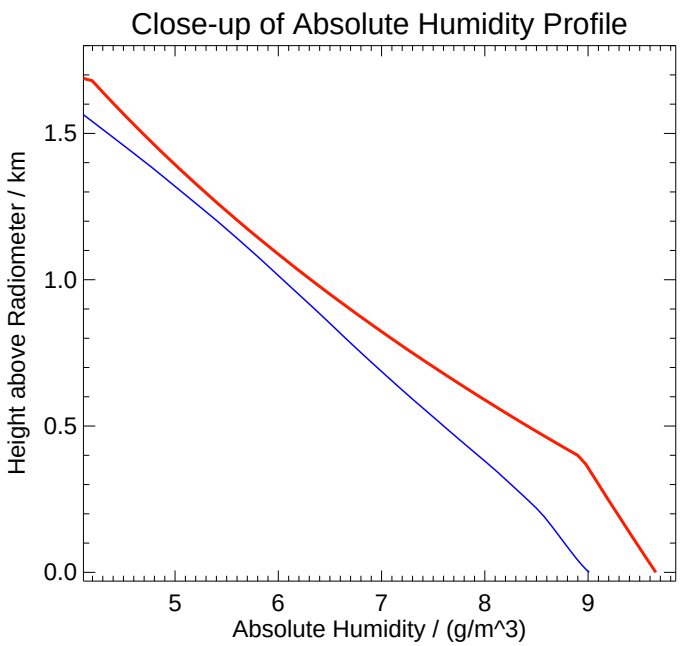
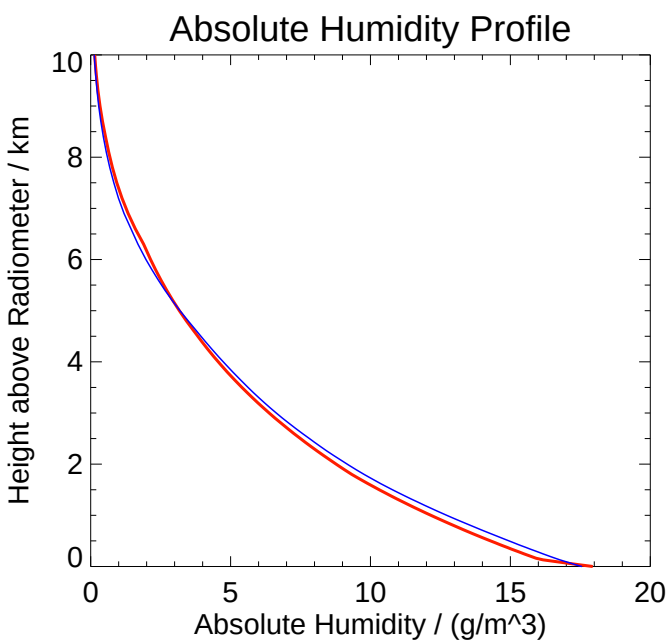

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
5
6
7
8
9


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
5
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15
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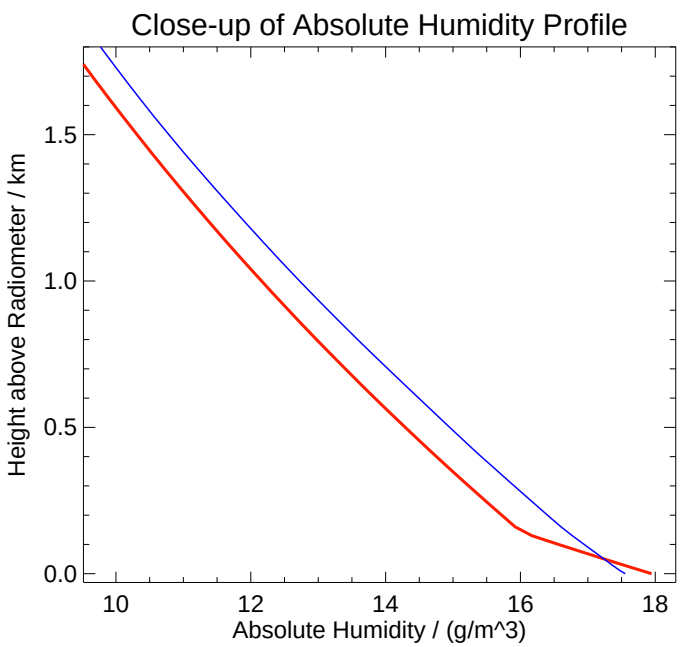
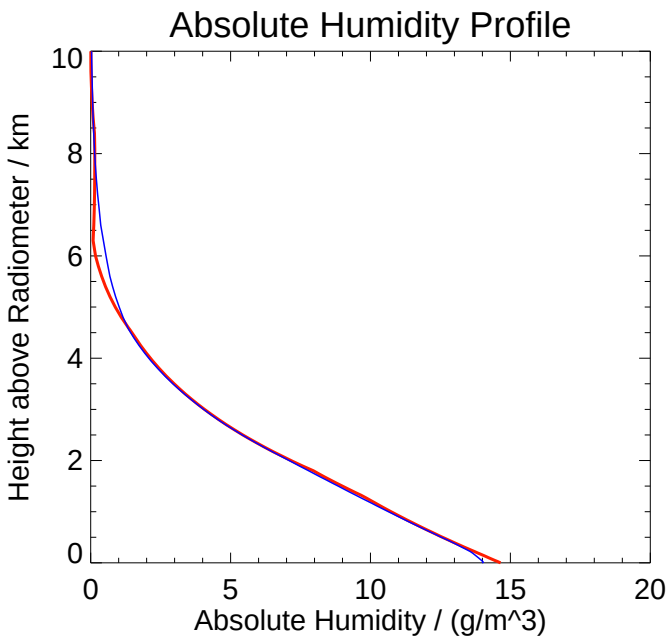

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
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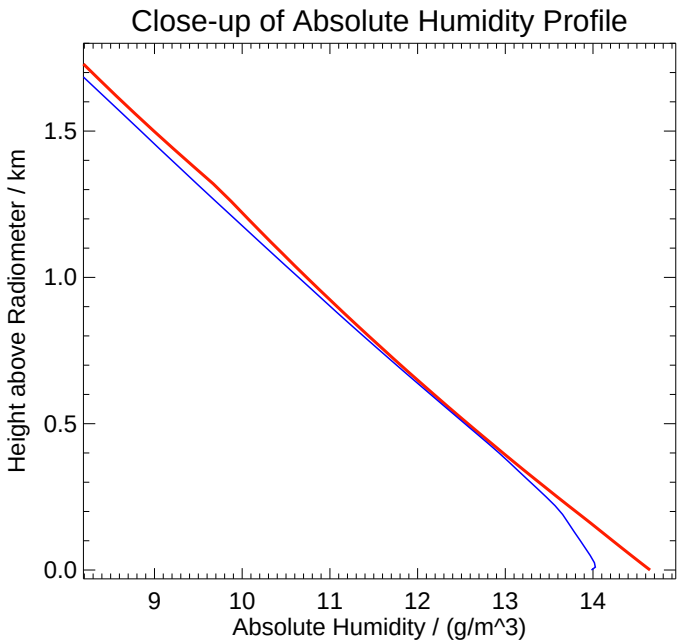
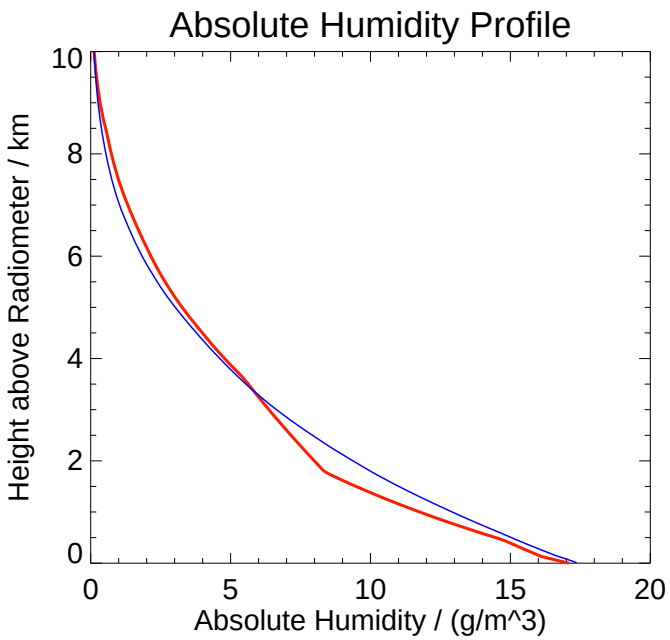

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
9
10
11
12
13
14


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
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5
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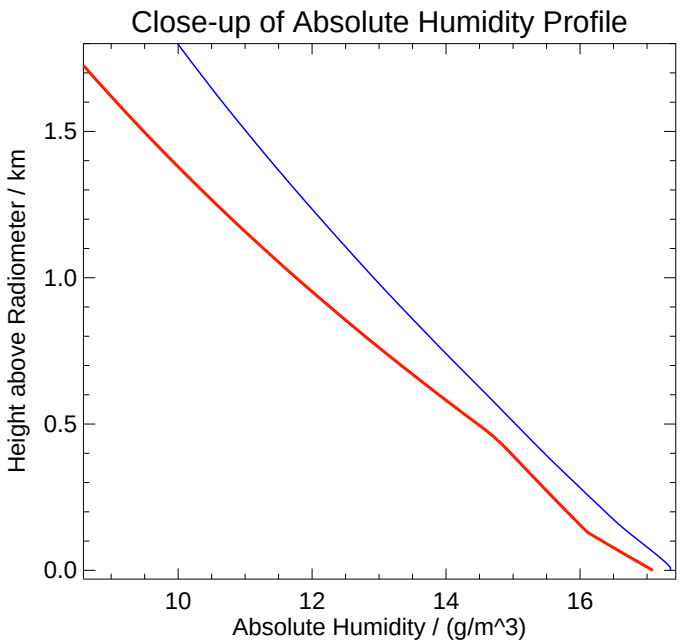
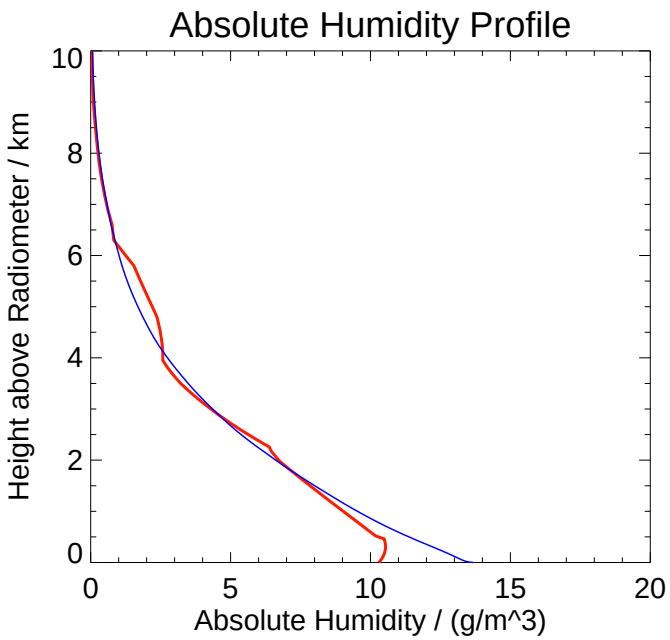
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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8
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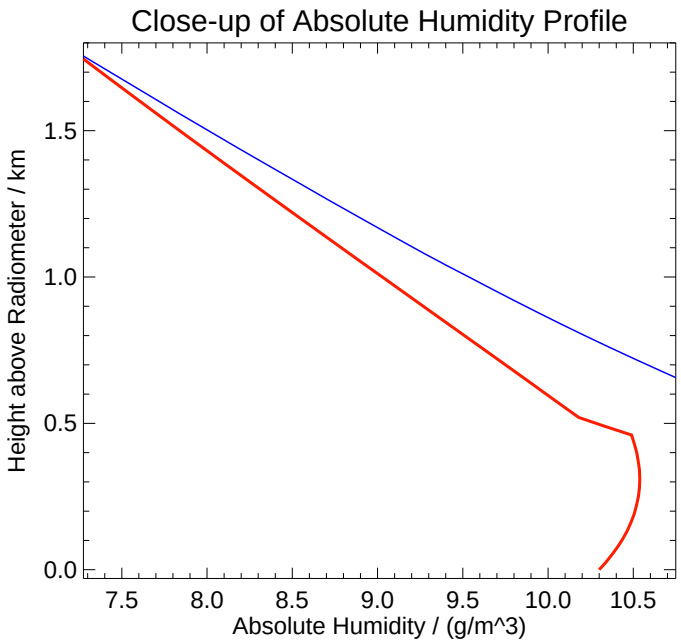
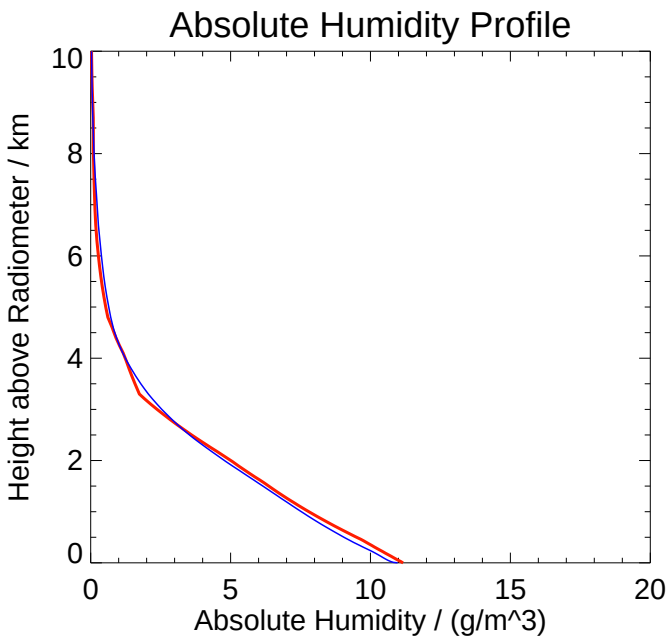
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
7.5
8.0
8.5
9.0
9.5
10.0
10.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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8
10
0
5
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15
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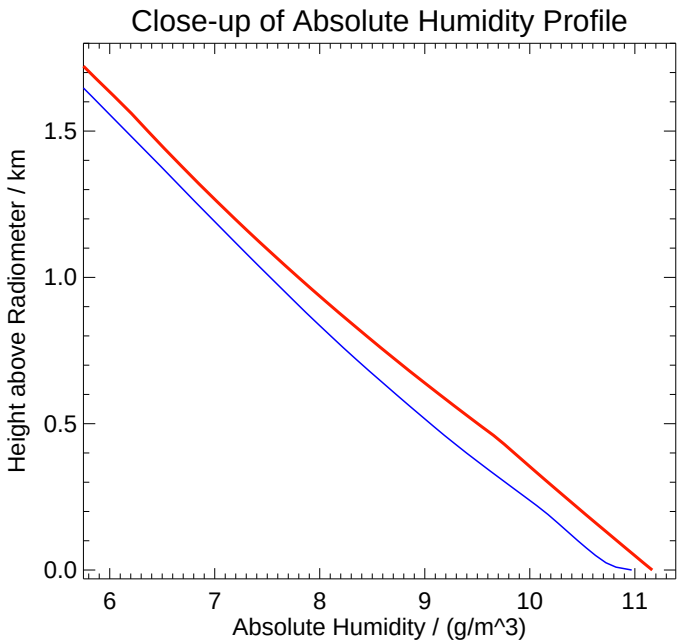
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
6
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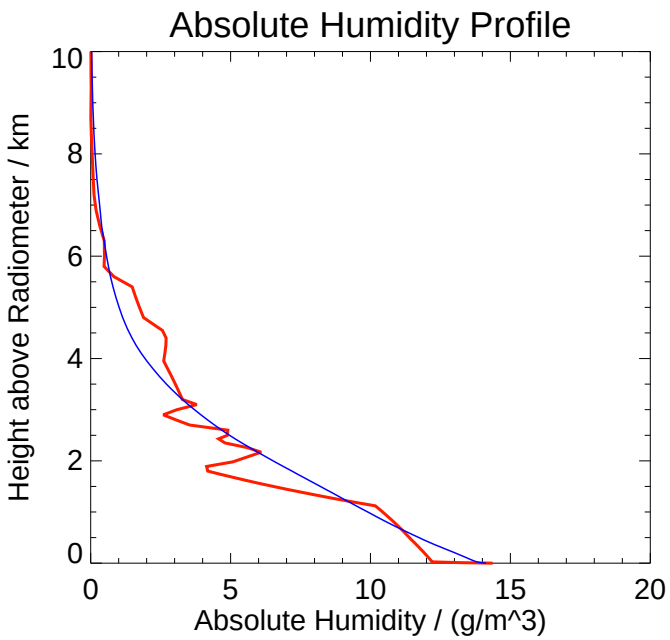
10
11


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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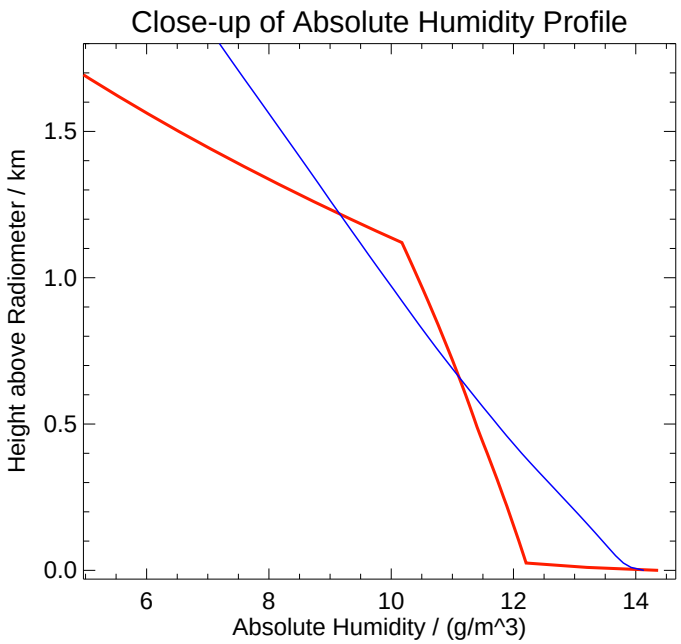
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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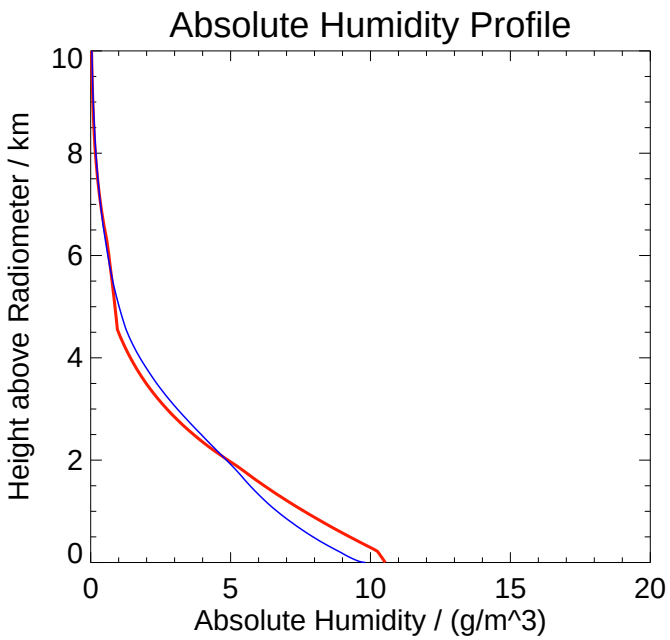
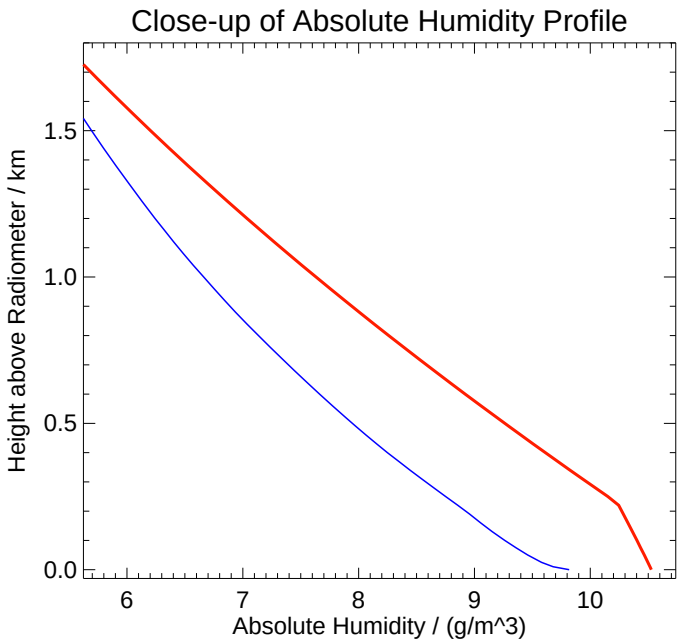
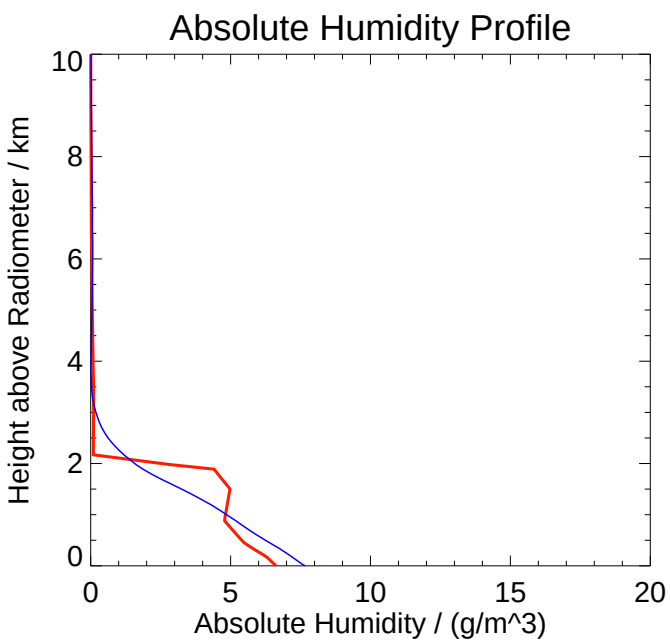
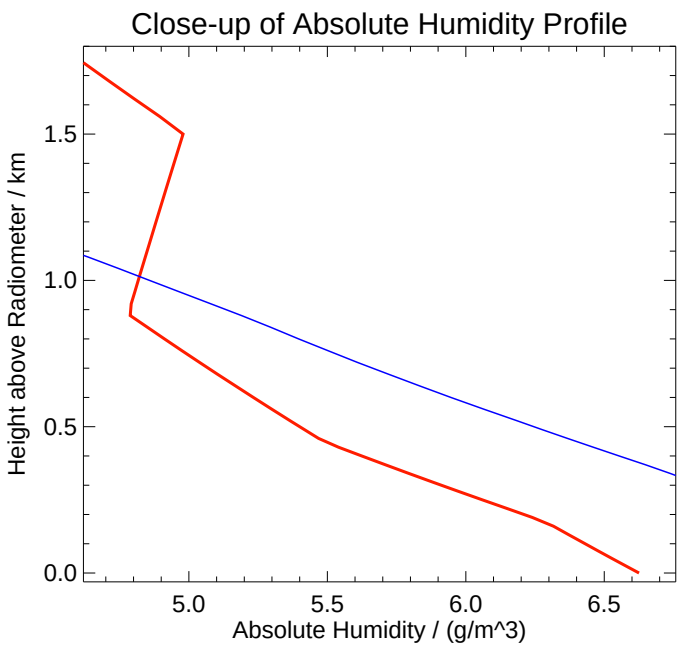
0.5
1.0
1.5
6
8
10
12
14


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
7
8
9
10


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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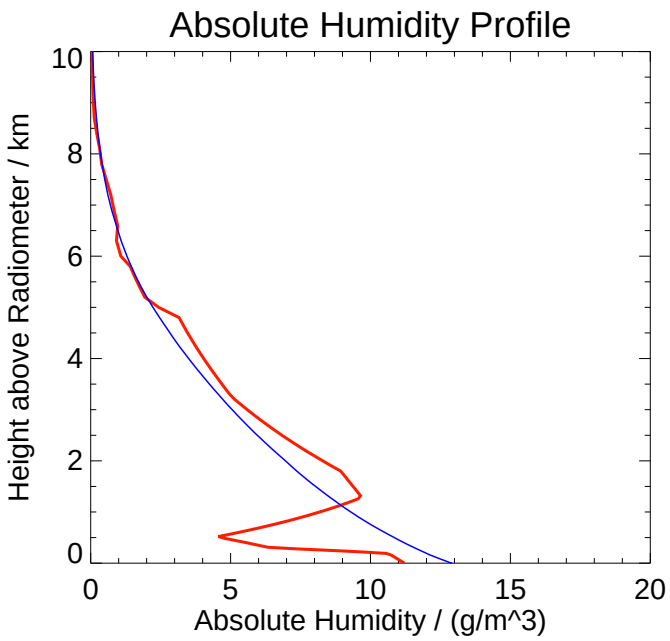
0.5
1.0
1.5
5.0
5.5
6.0
6.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
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15
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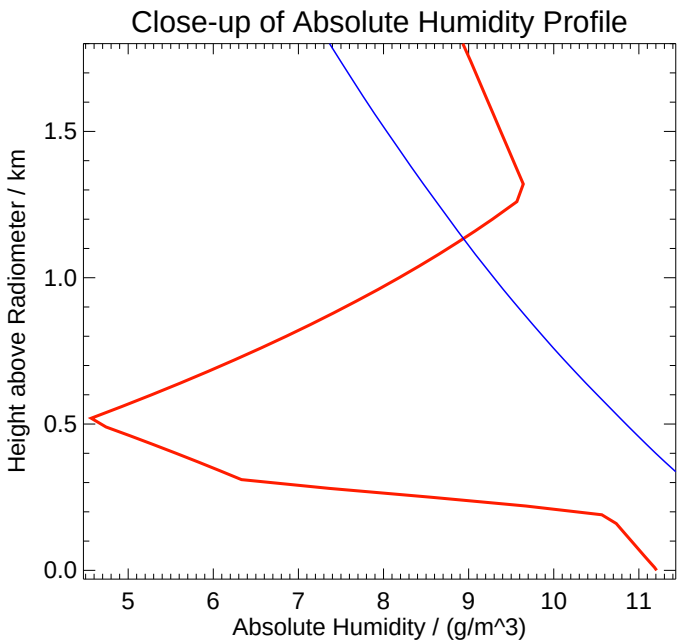
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
5
6
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8
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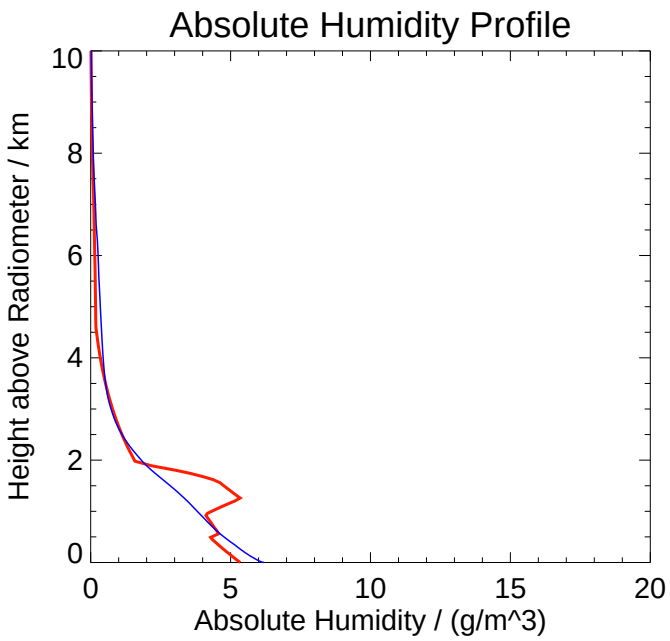
10
11


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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15
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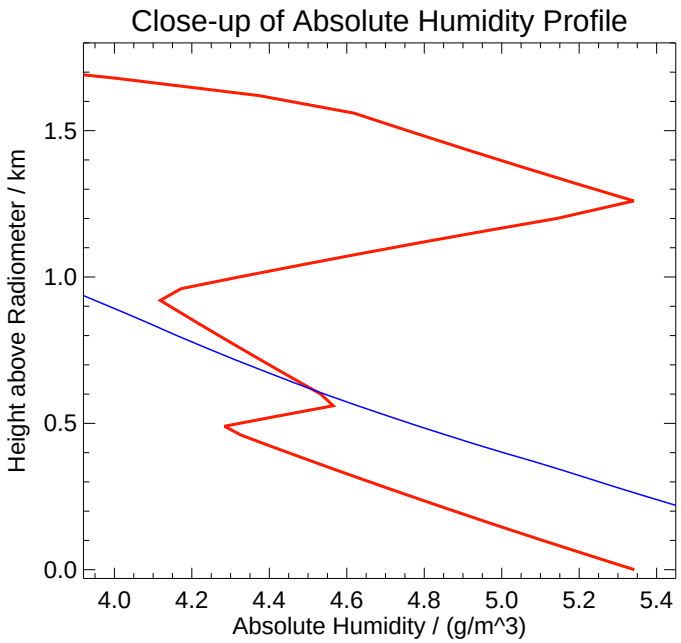
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
4.0
4.2
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4.6
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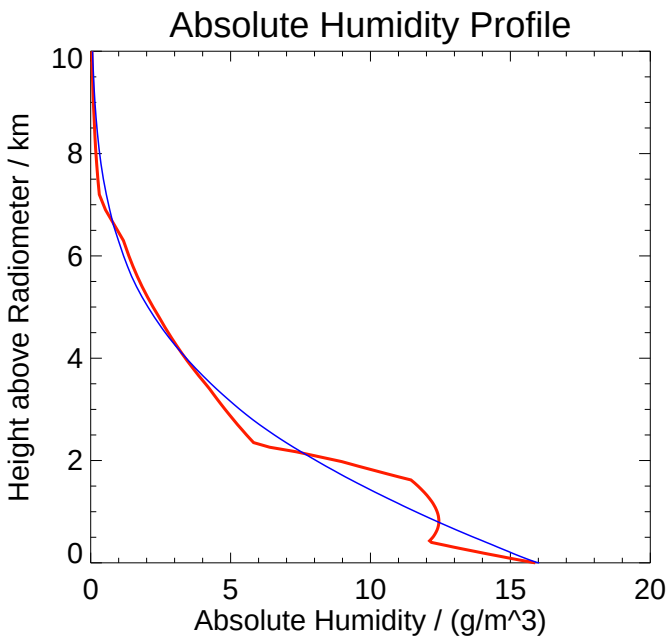
5.2
5.4


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
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15
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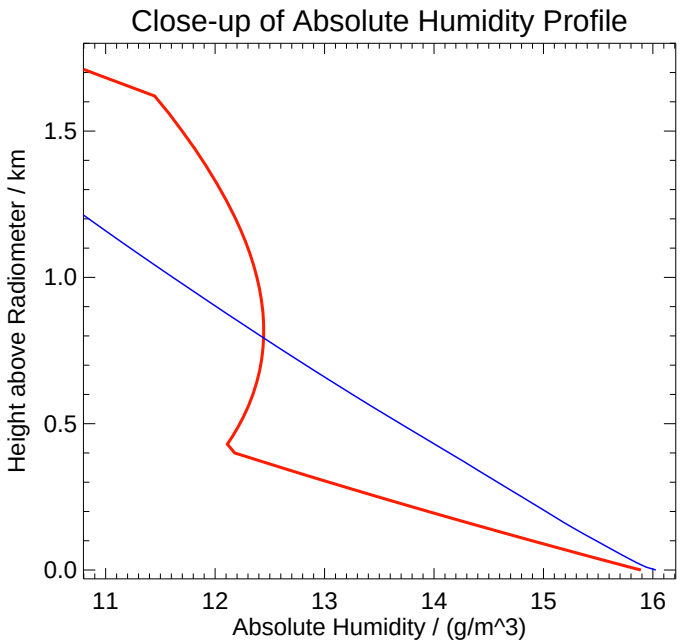
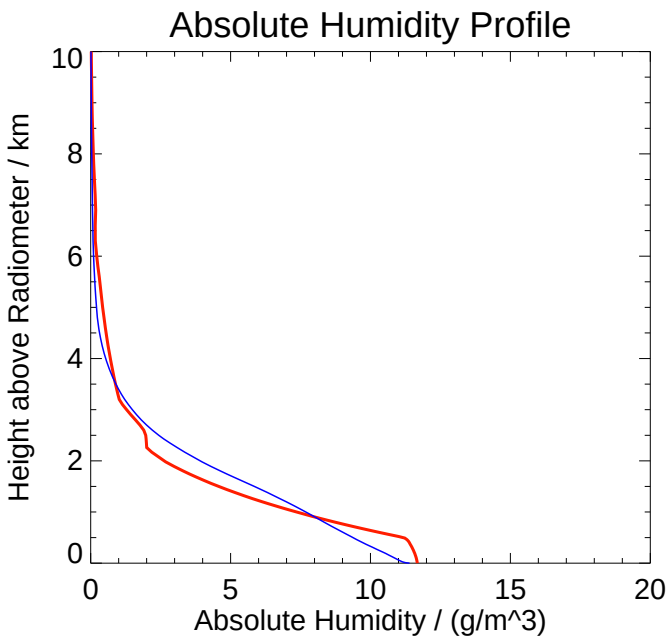

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
11
12
13
14
15
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
5
10
15
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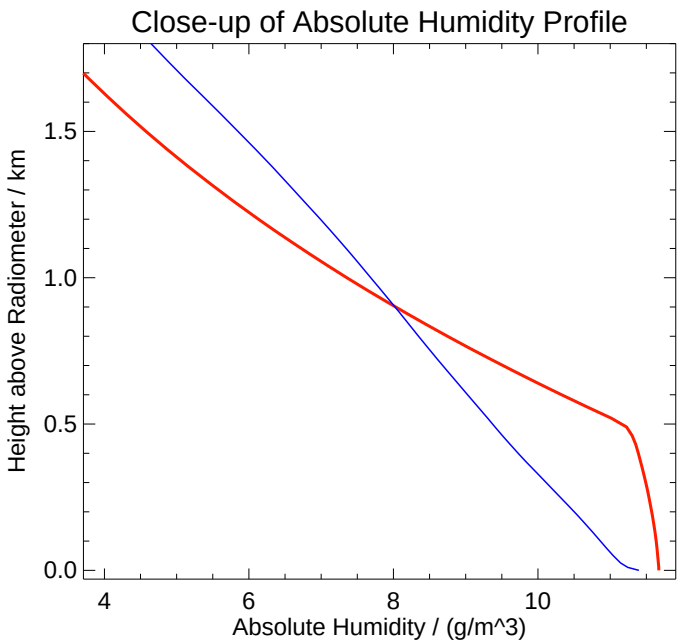
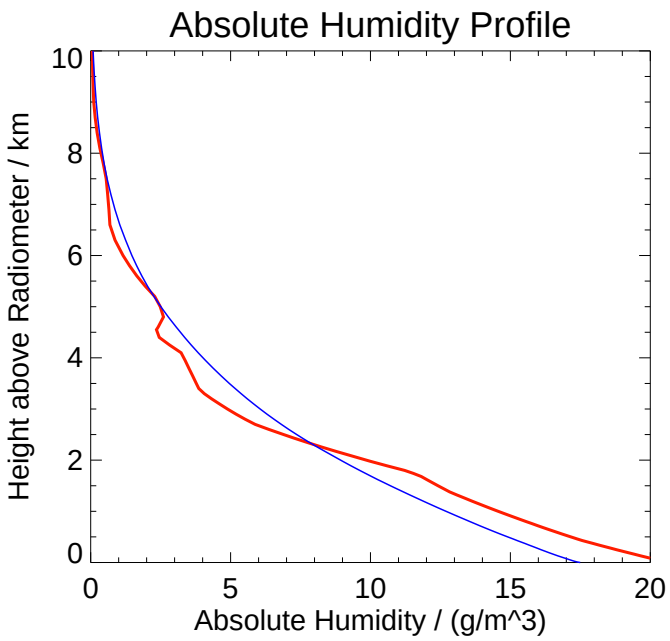

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4
6
8
10


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
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15
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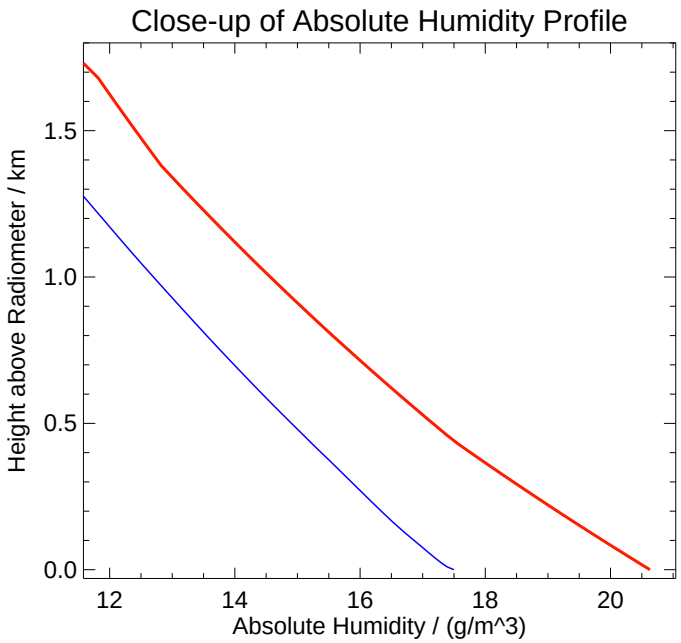
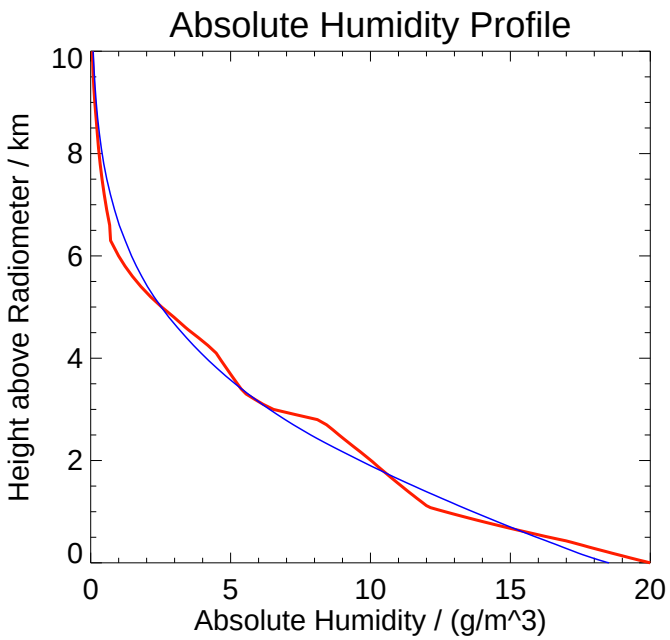

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18
20


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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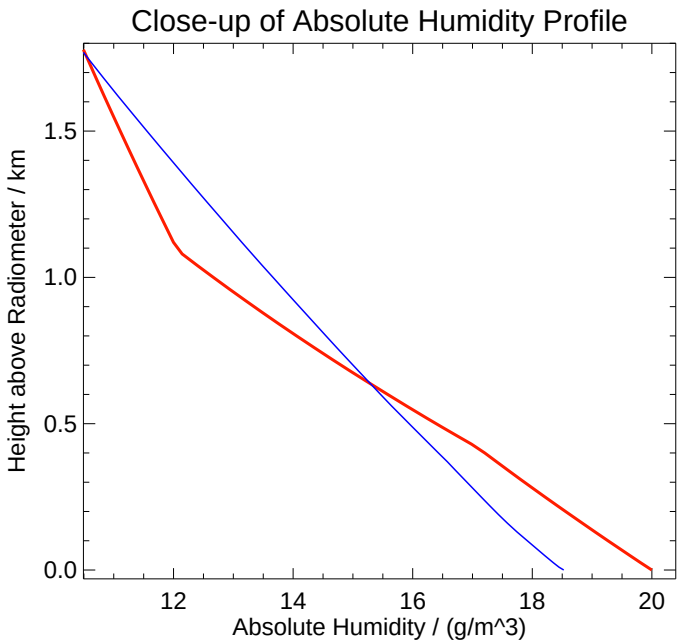
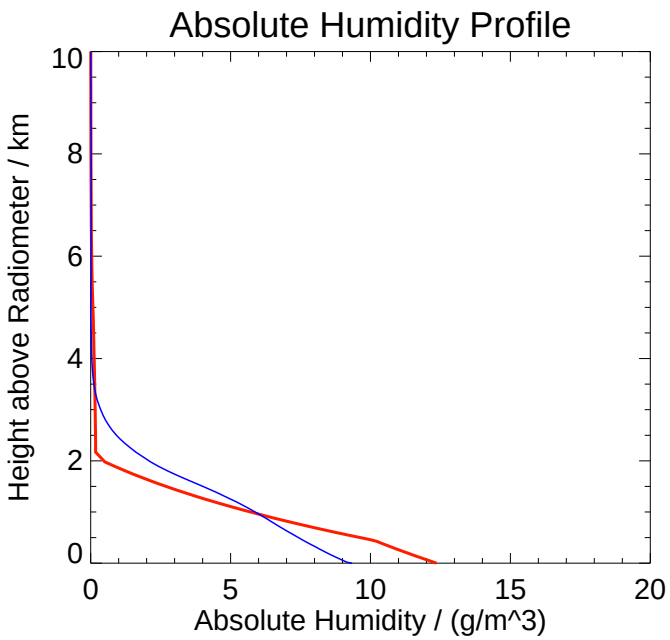
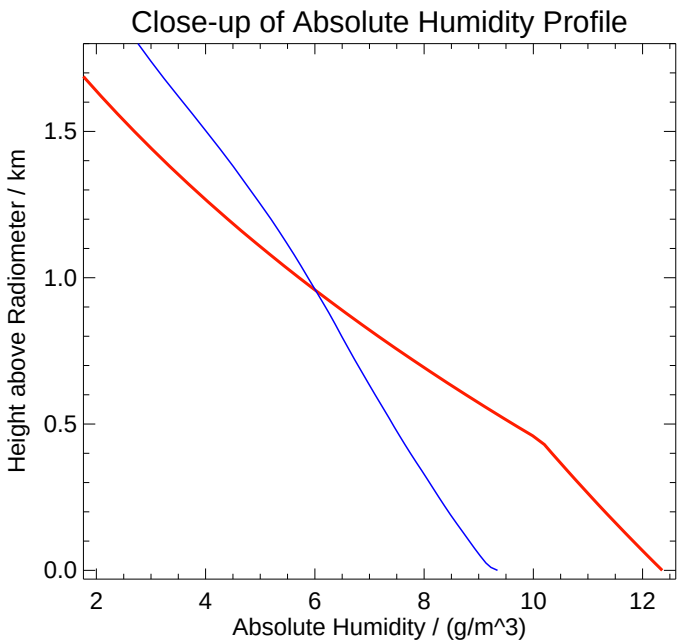
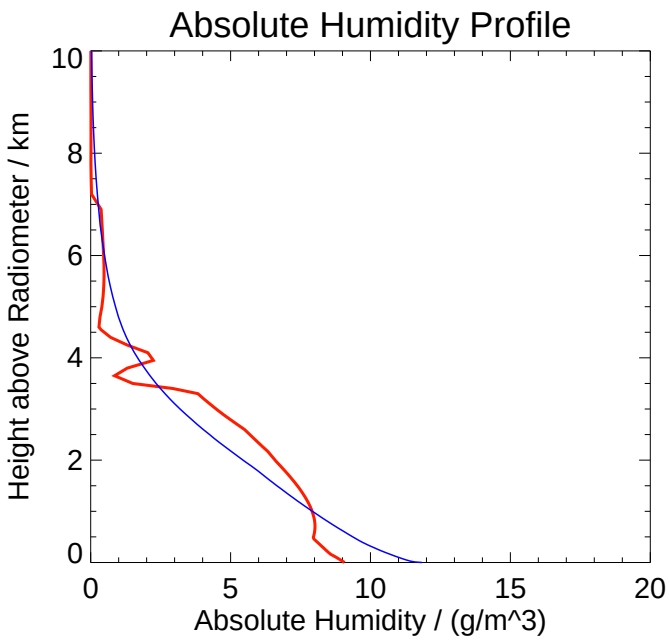

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18
20


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2
4
6
8
10
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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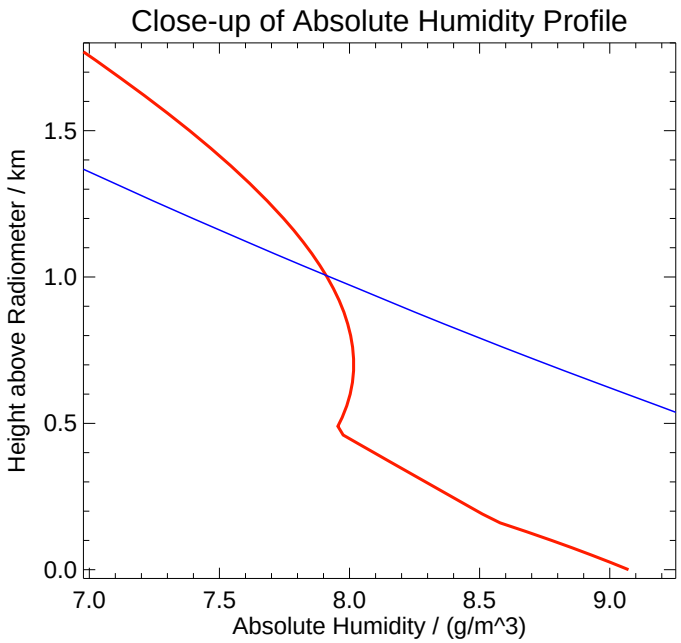
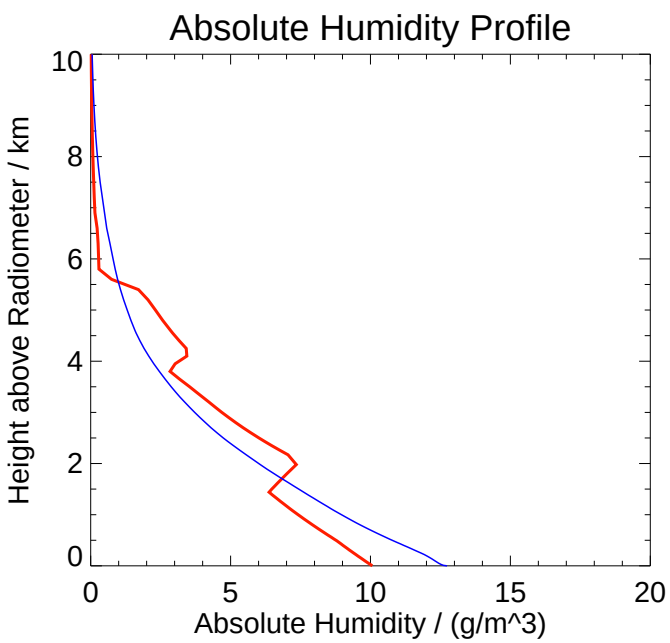
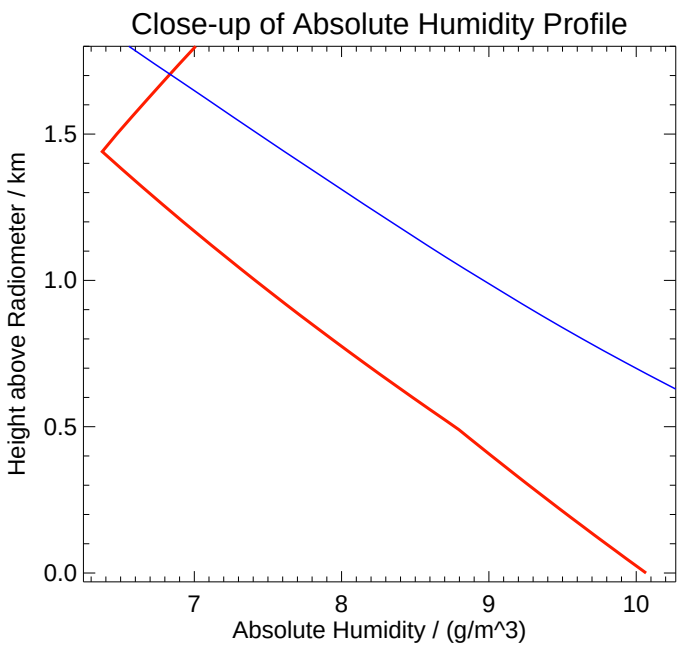
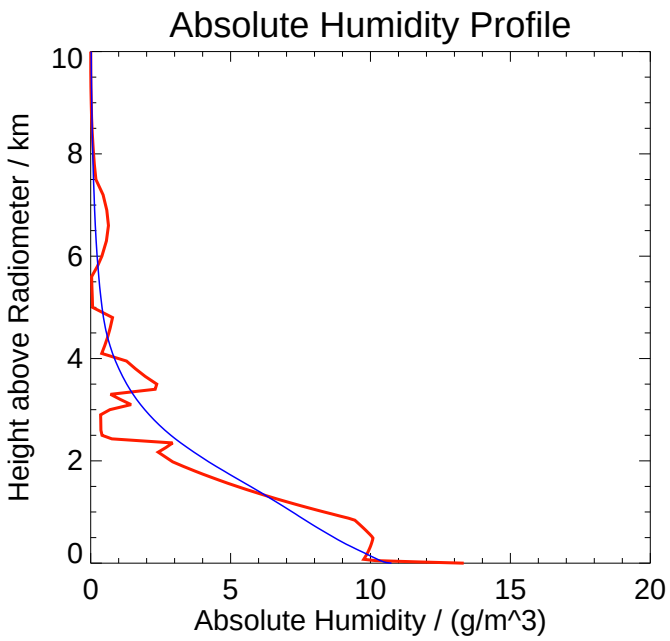
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
7.0
7.5
8.0
8.5
9.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
7
8
9
10


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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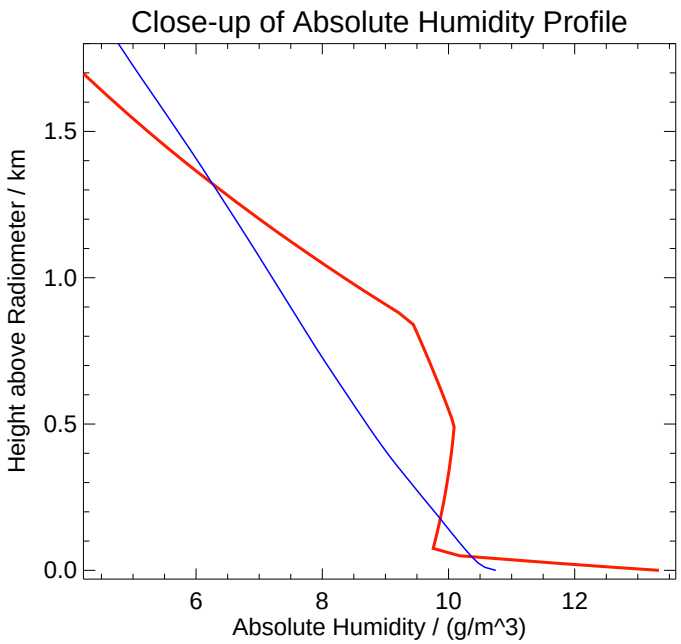
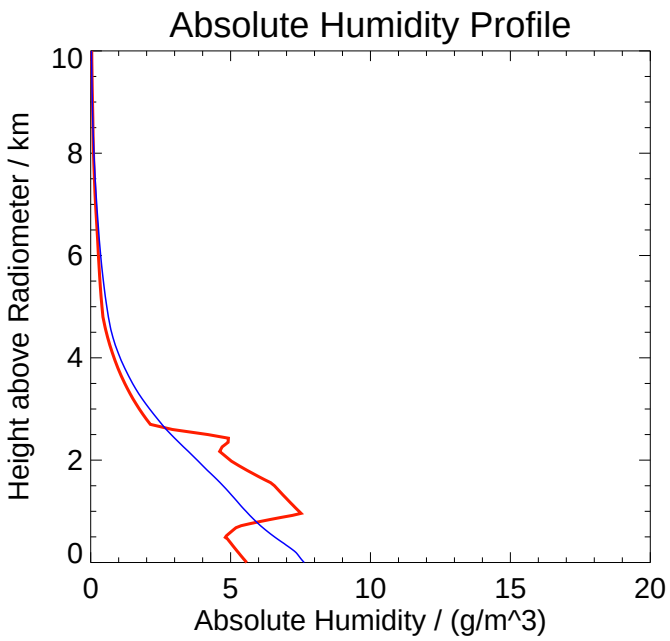

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
8
10
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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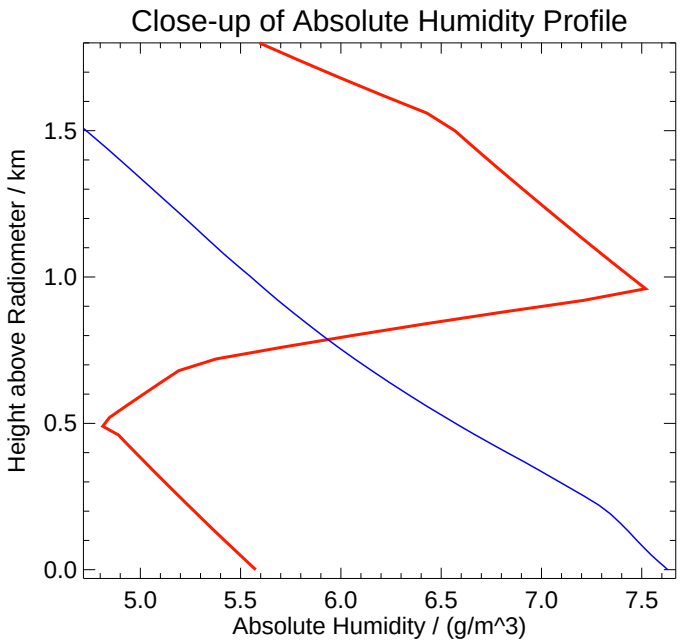
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
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6.5
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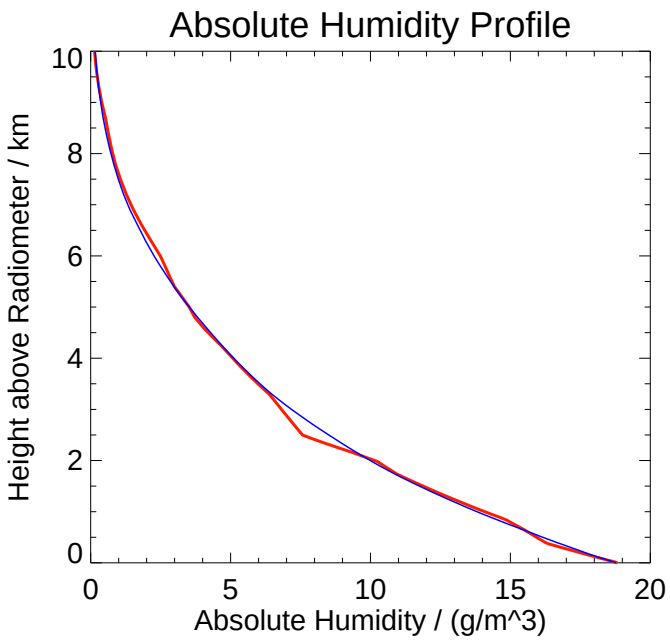
7.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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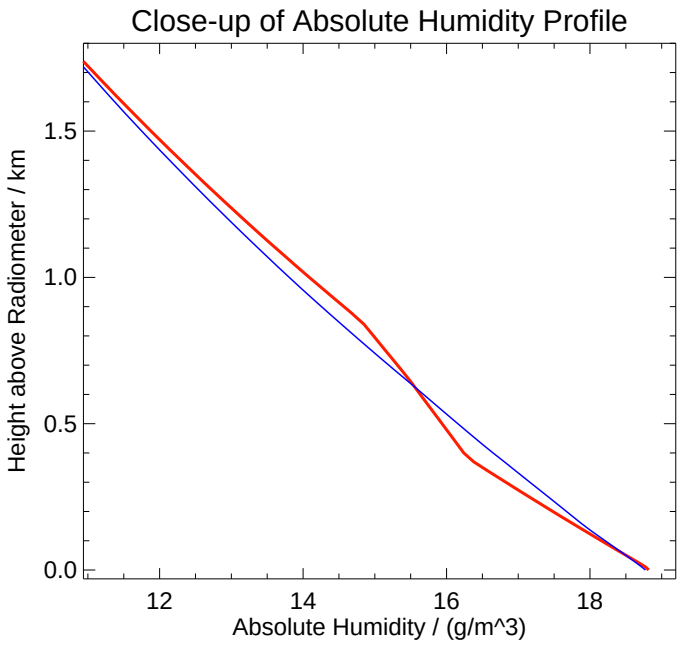
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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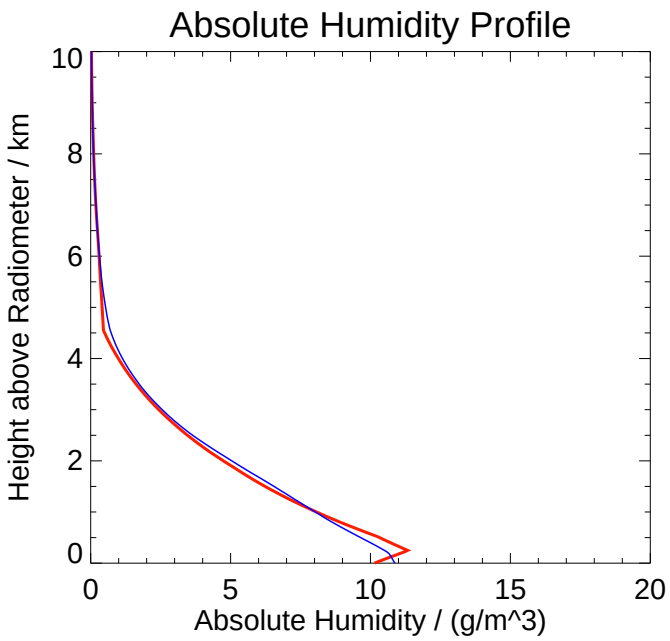
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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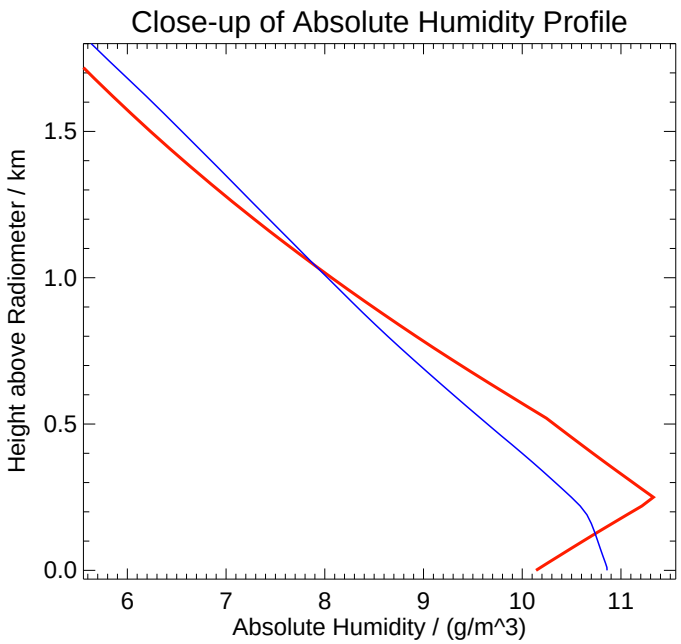
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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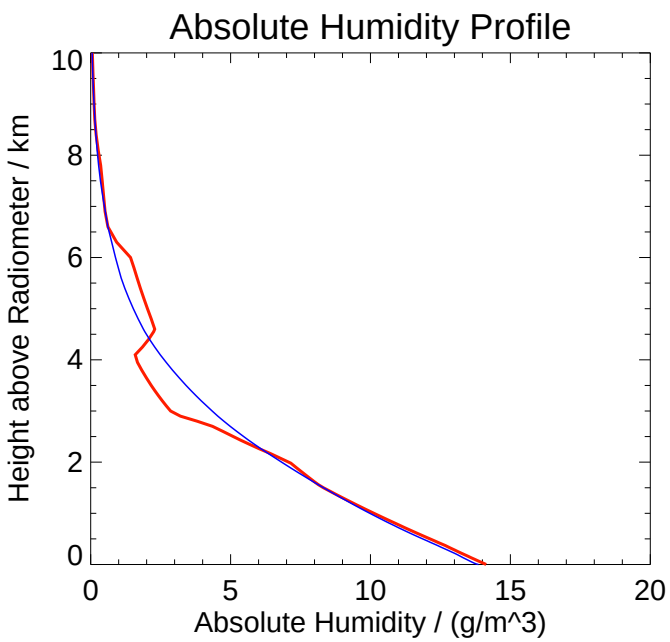
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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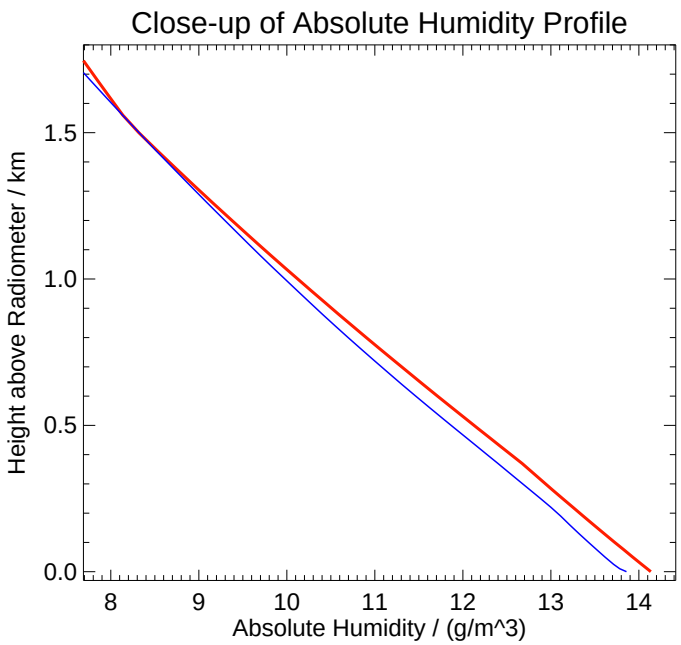
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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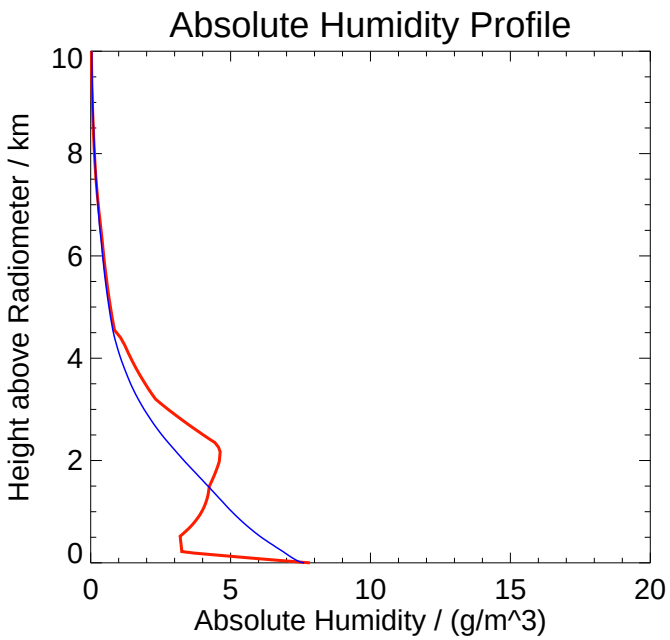
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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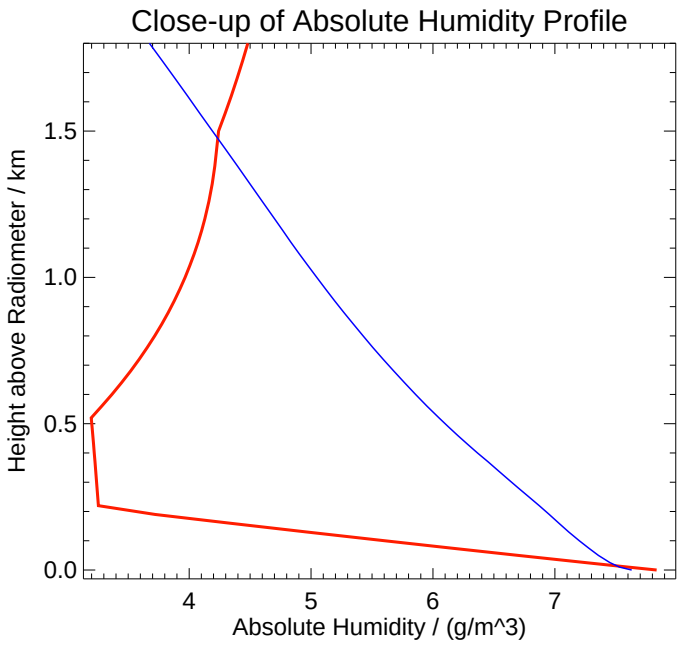
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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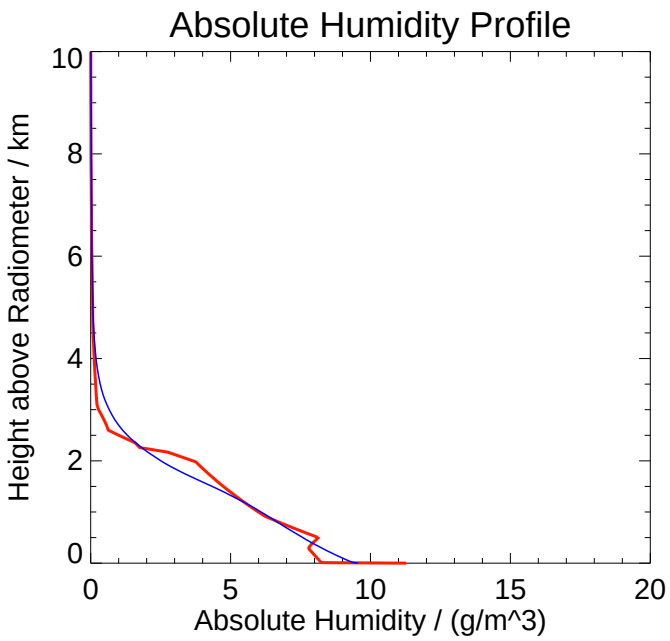
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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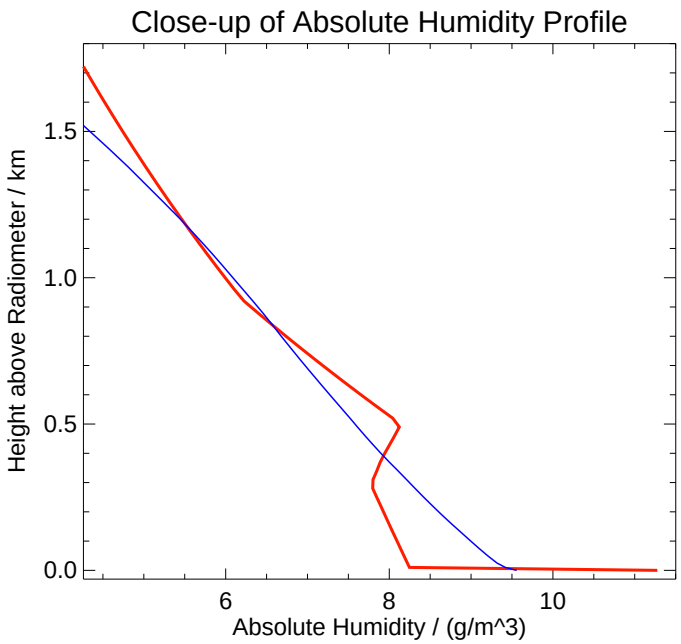
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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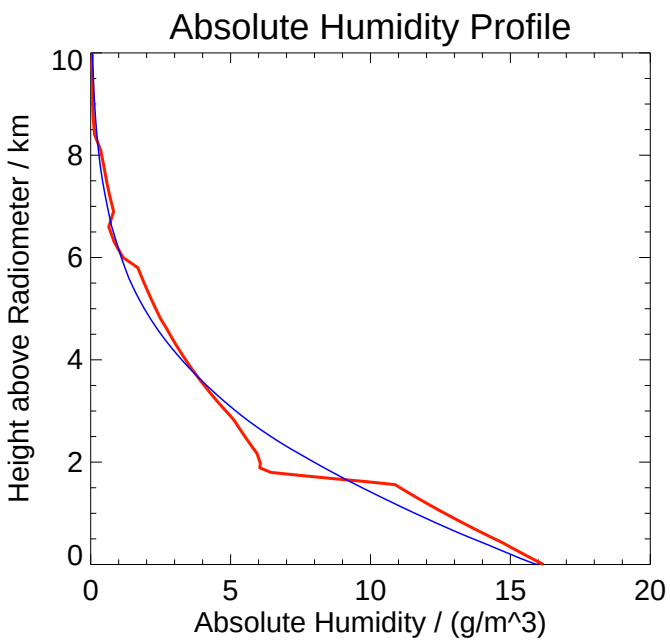
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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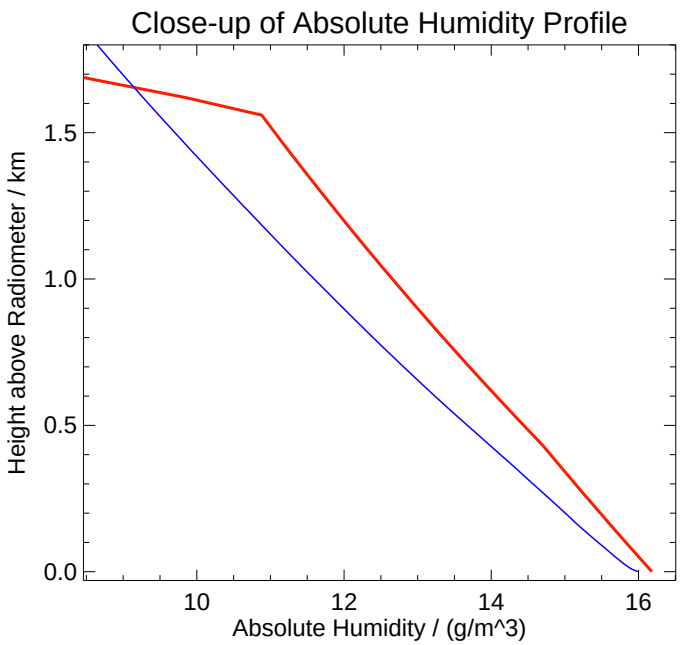
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
1.5
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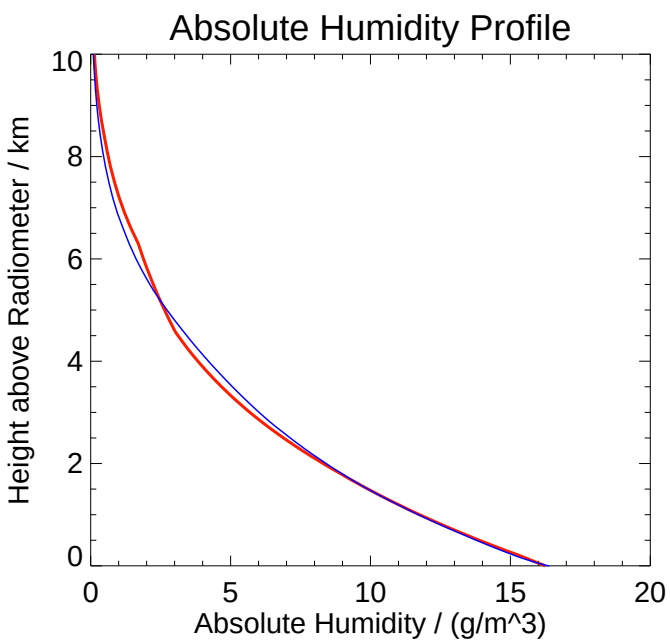
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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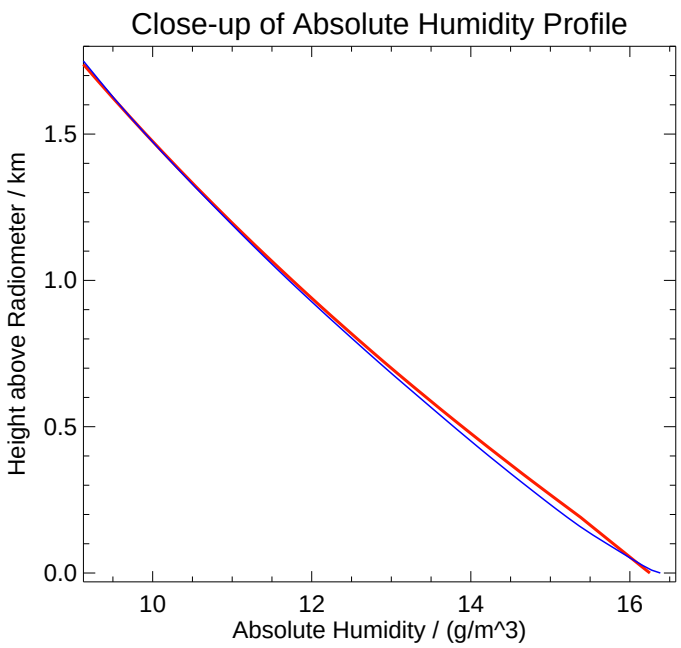
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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1.0
1.5
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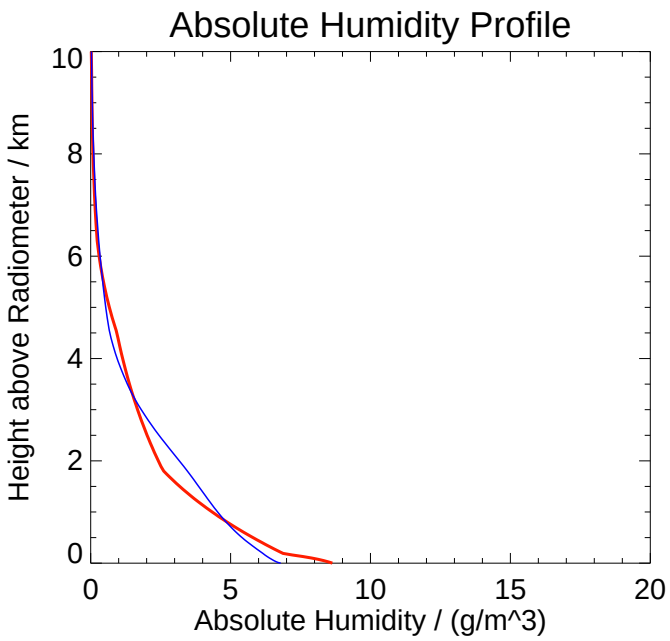
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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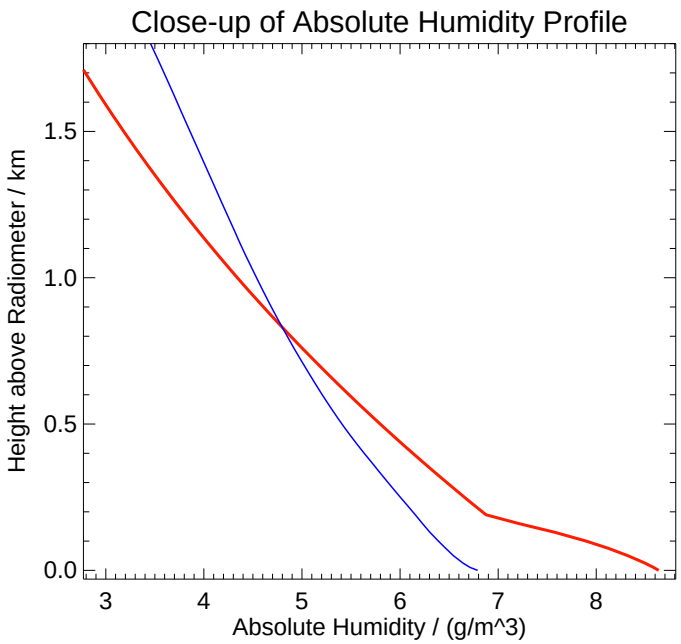
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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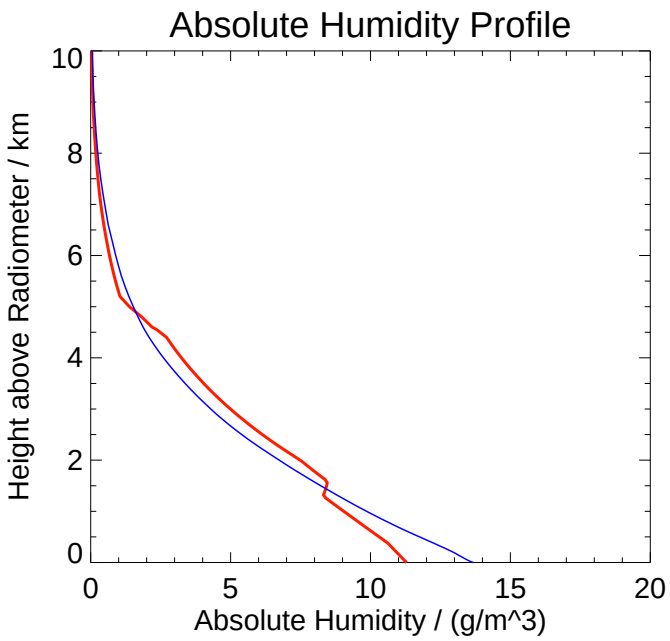
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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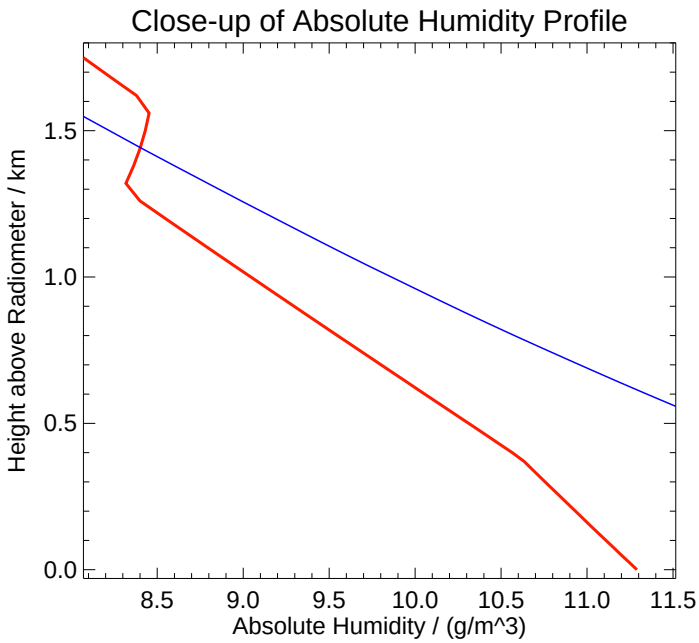
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
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1.5
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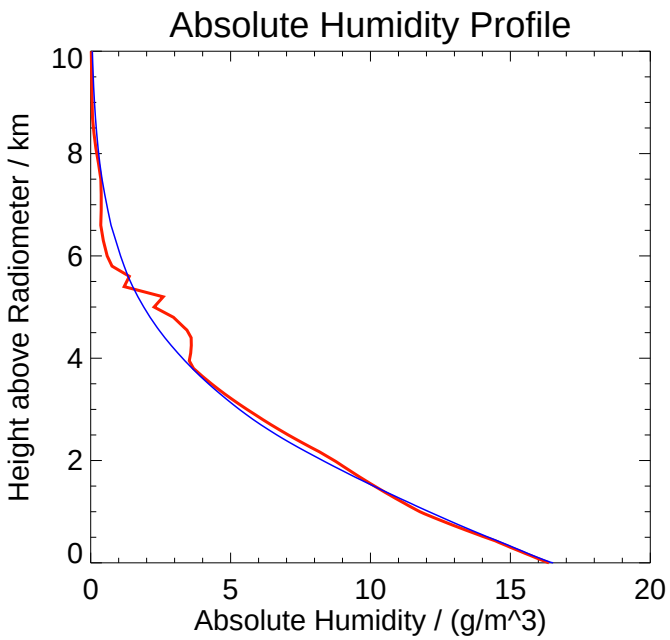
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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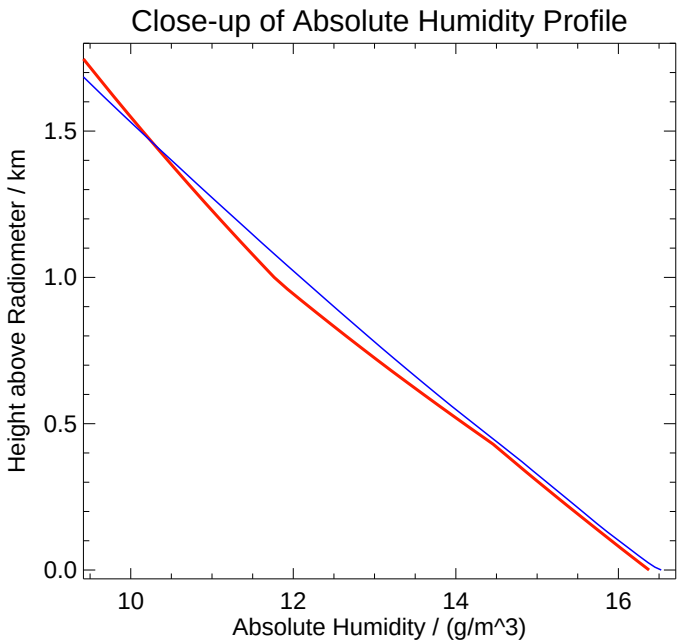
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
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14
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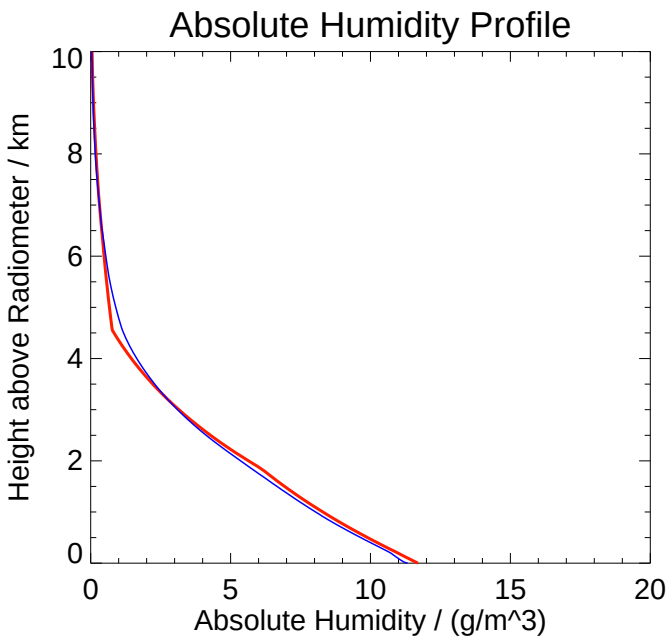
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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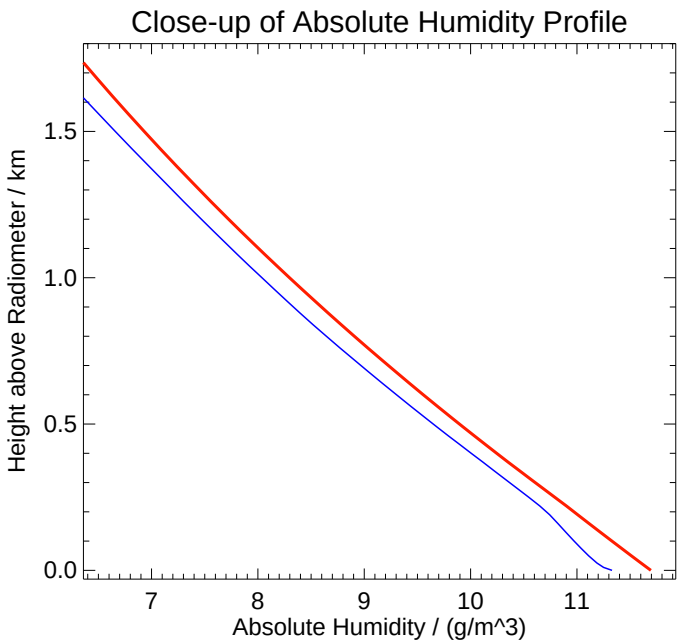
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
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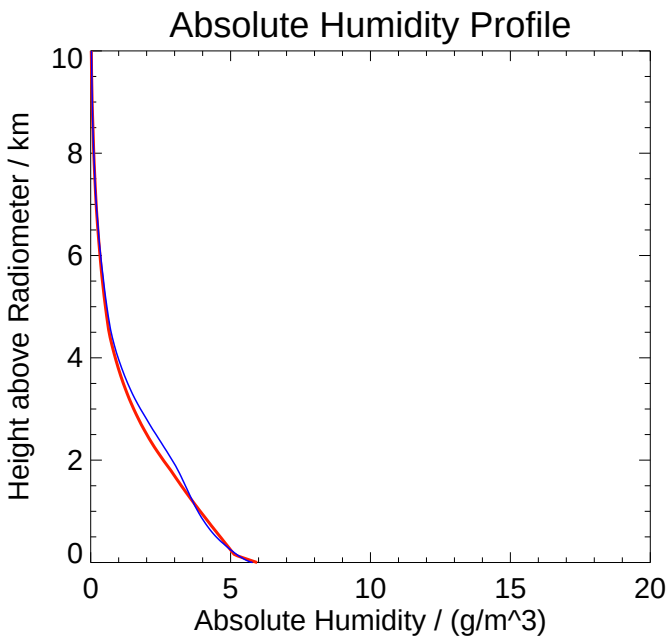
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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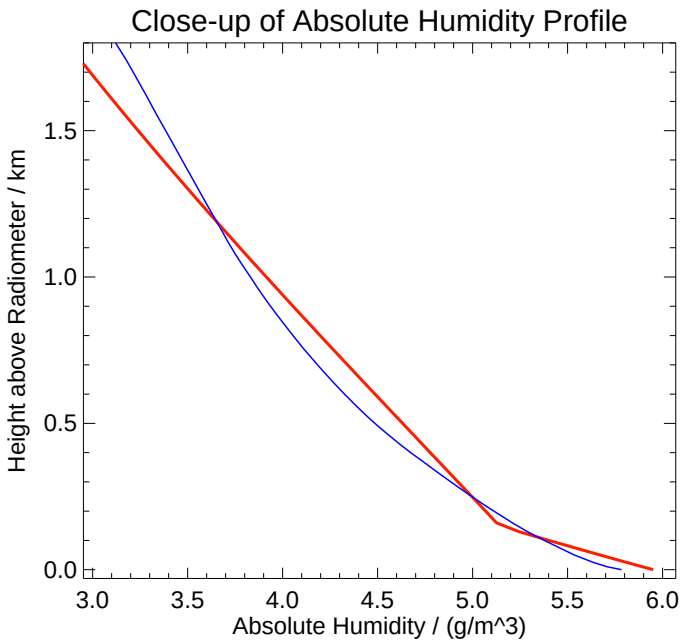
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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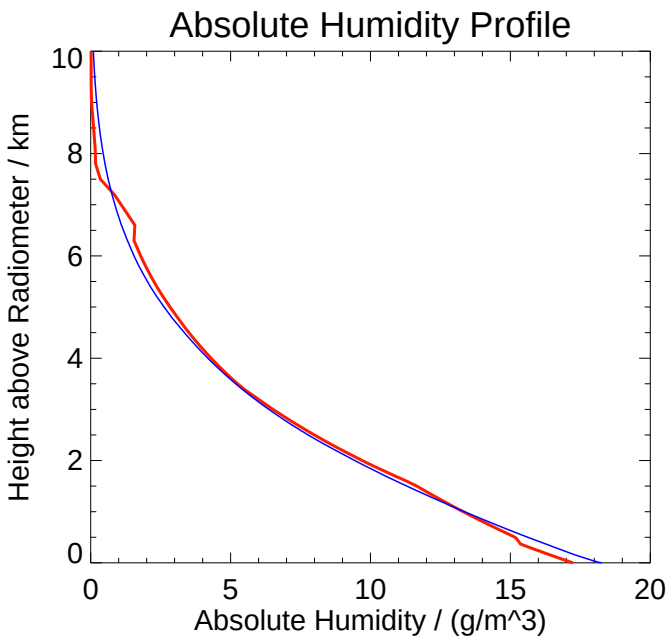
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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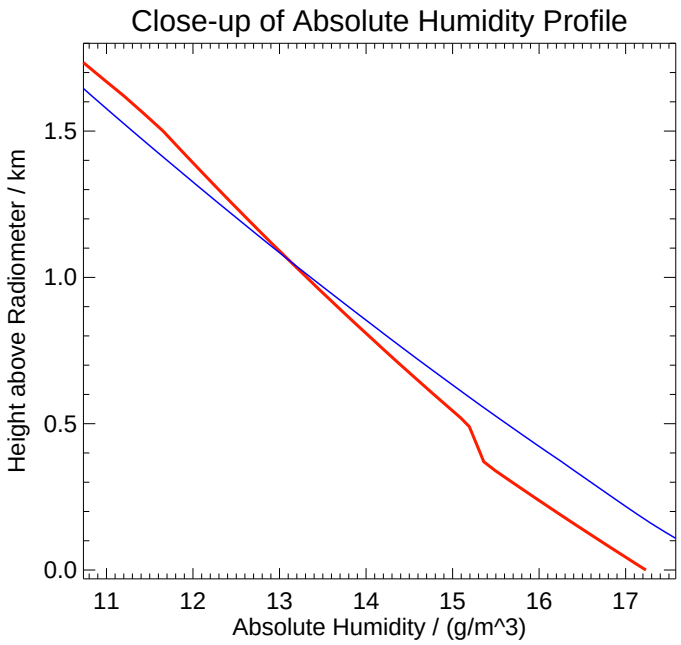
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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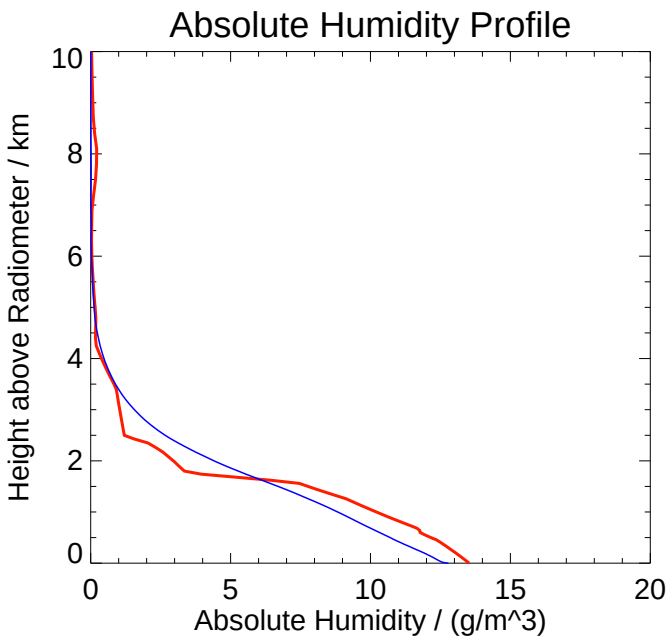
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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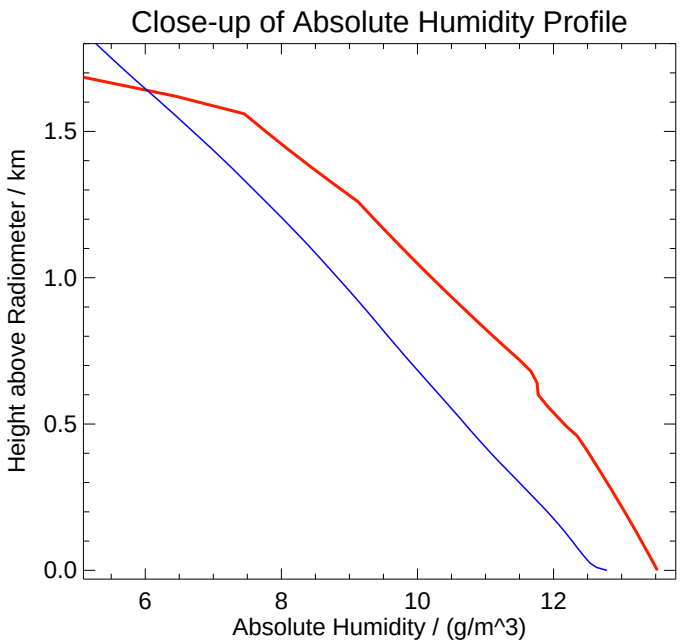
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
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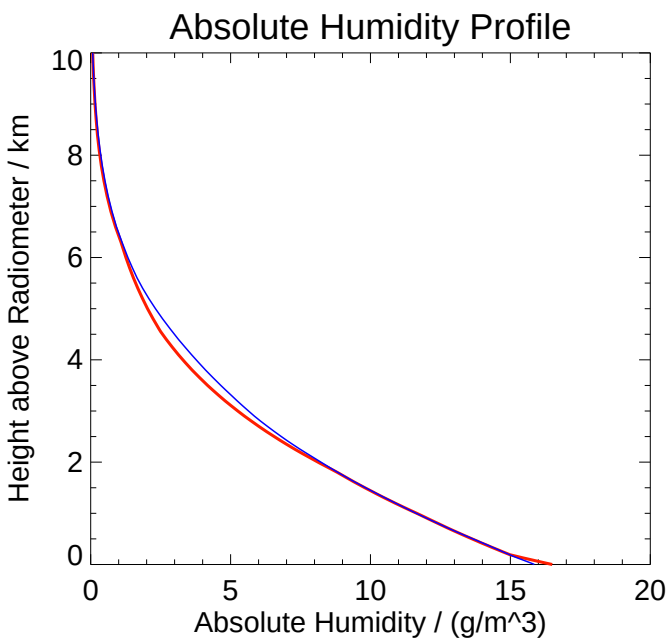
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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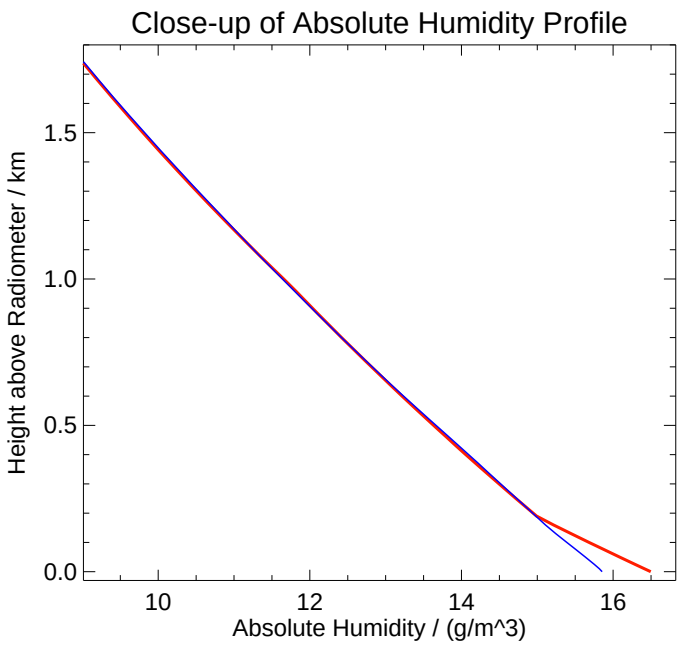
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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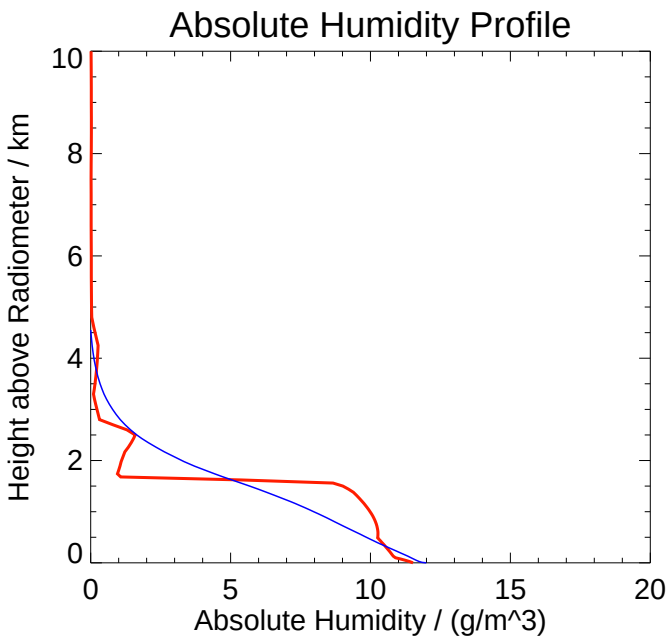
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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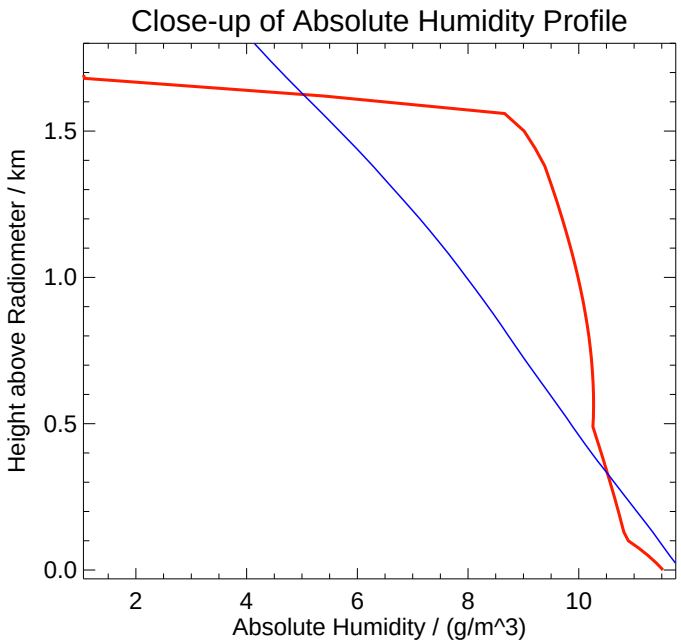
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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1.0
1.5
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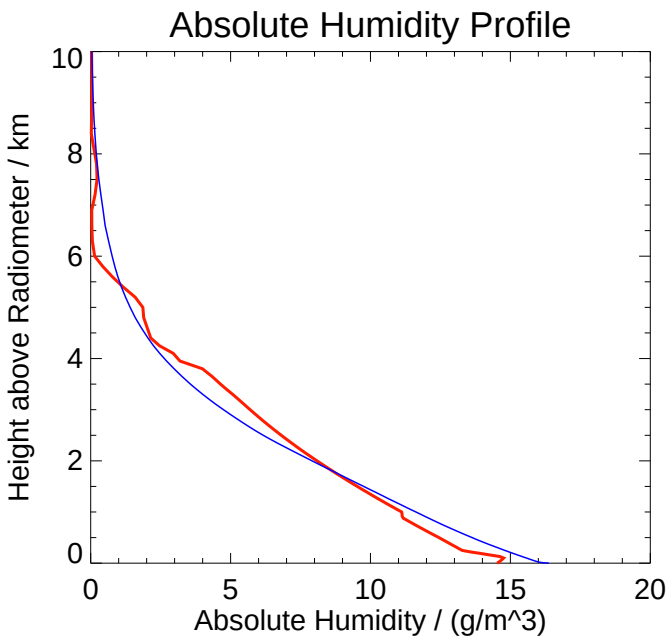
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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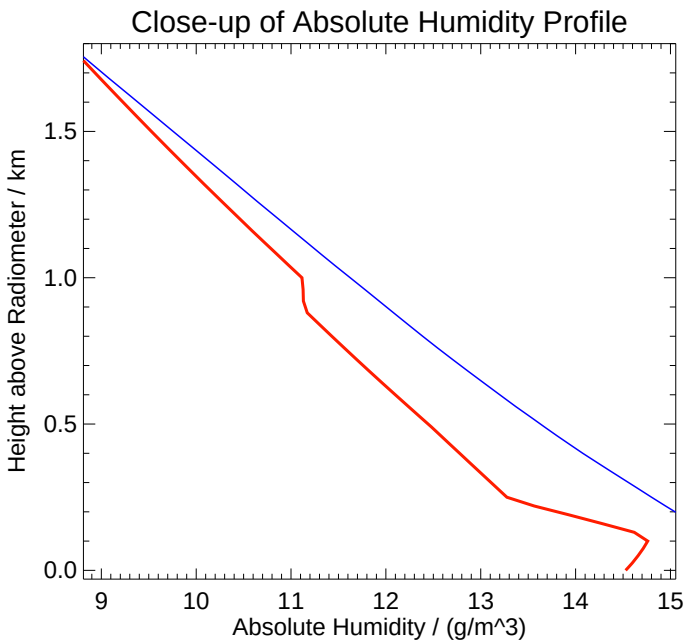
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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14
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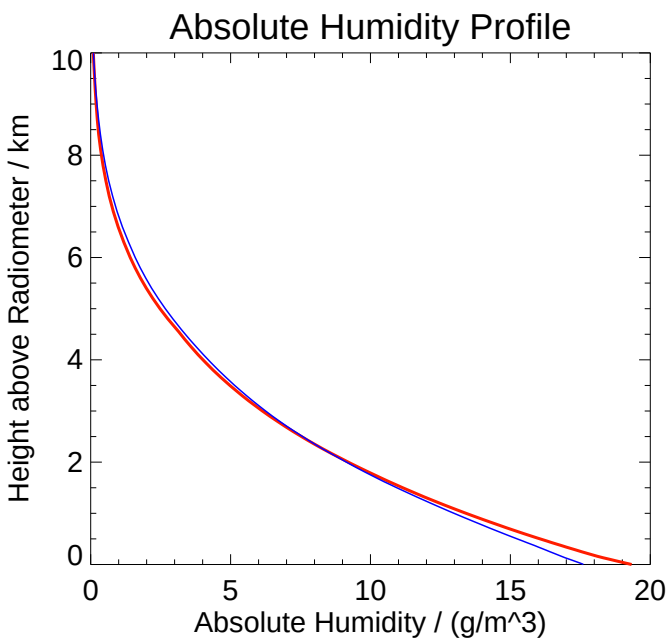
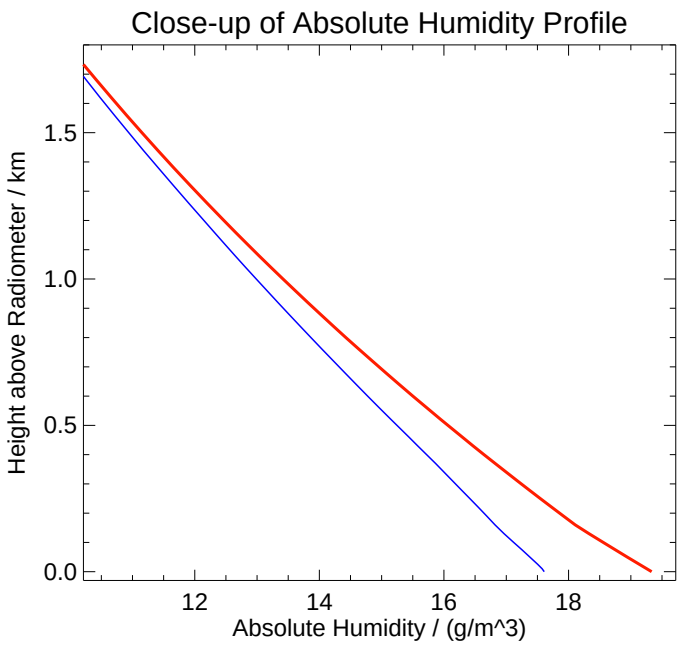
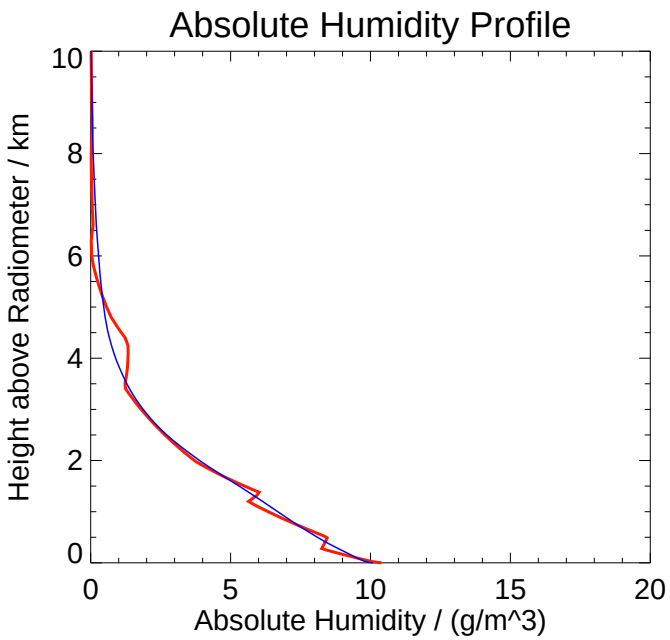

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
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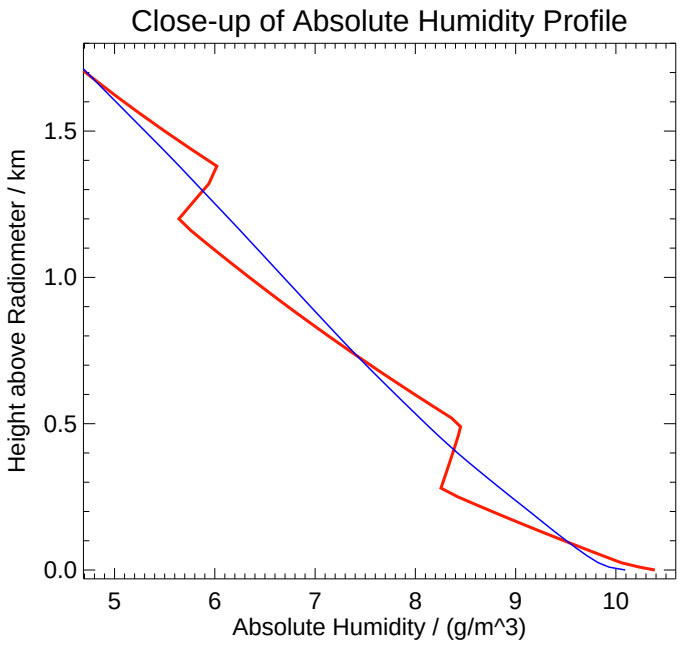
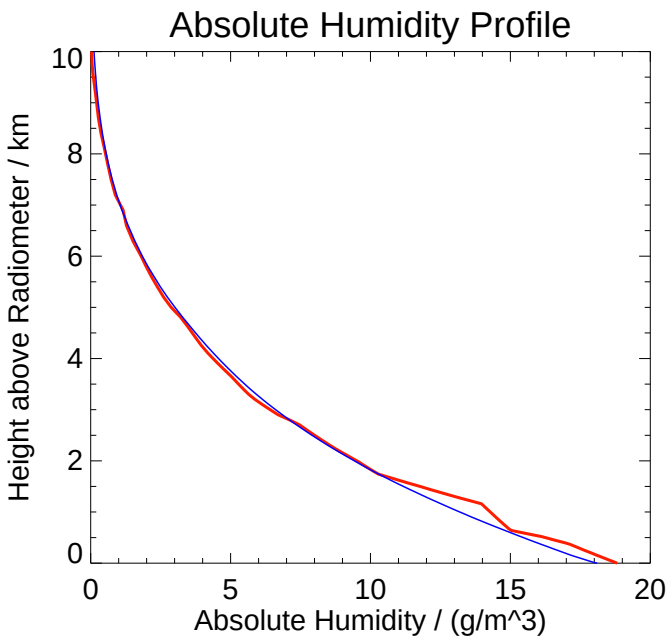
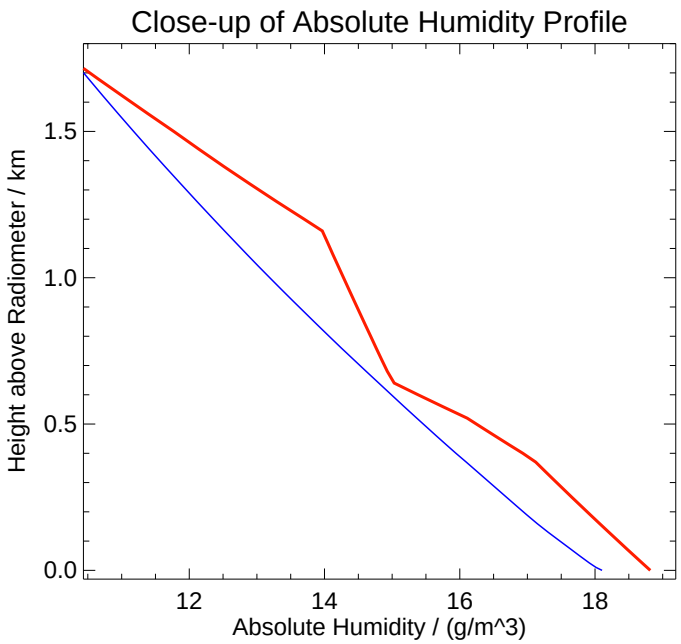
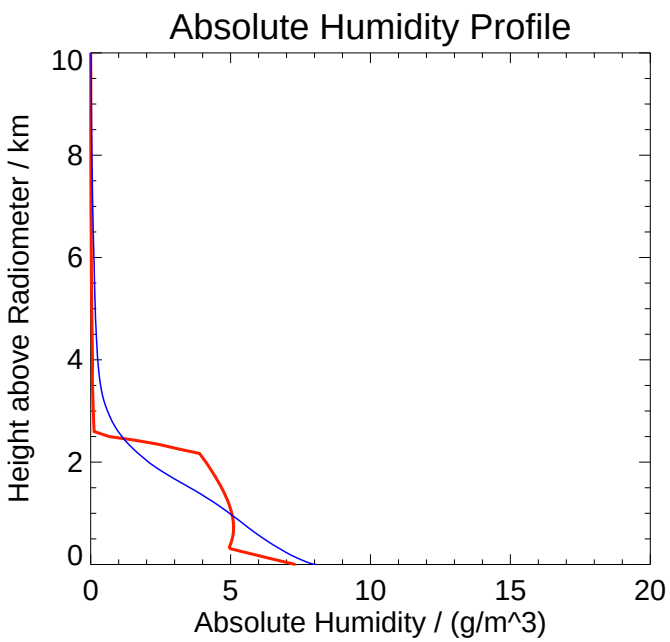

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
5
6
7
8
9
10


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
5
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15
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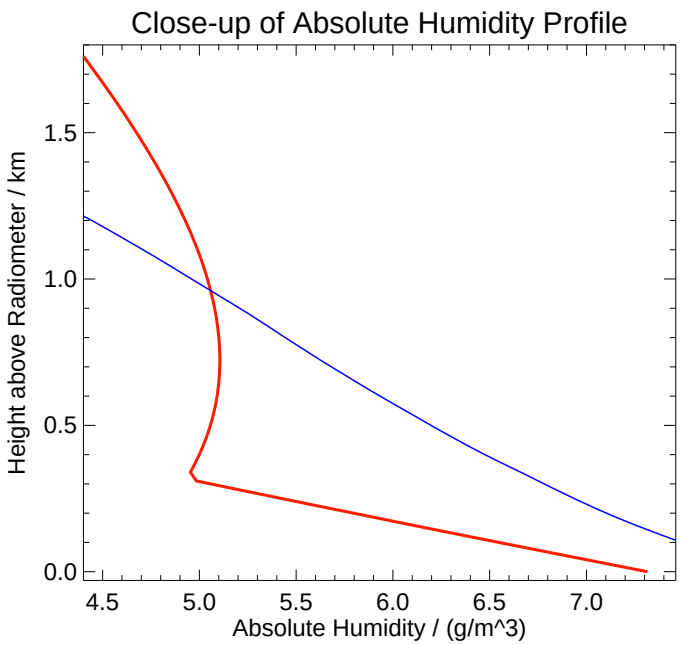
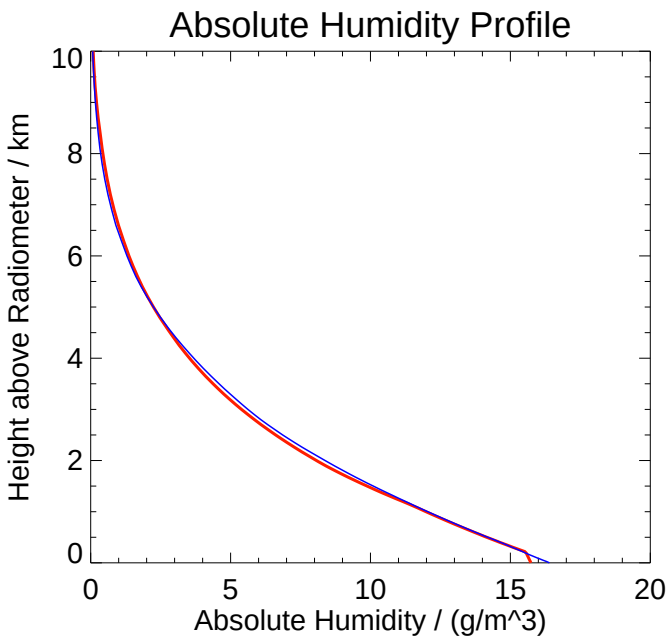

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4.5
5.0
5.5
6.0
6.5
7.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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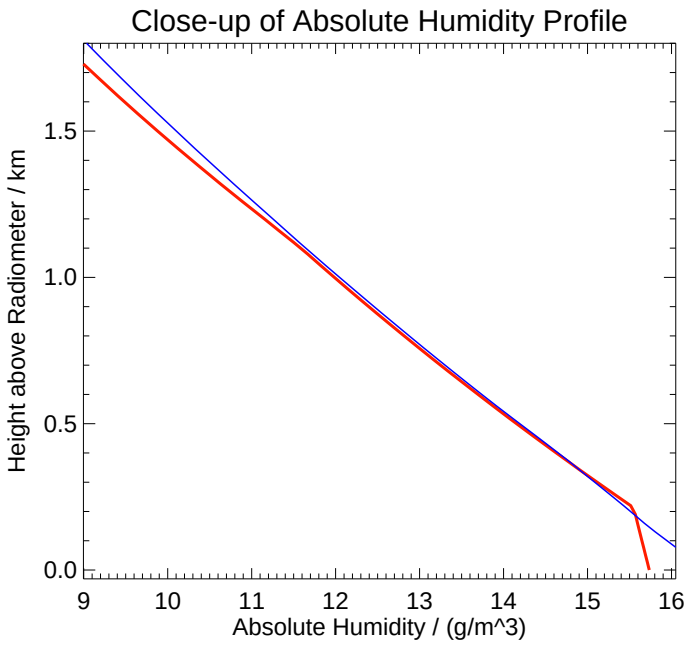
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
9
10
11
12
13
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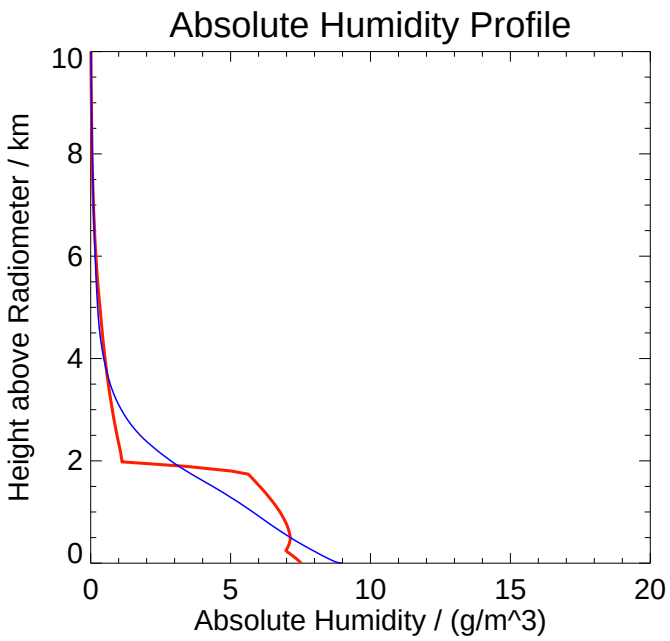
15
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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8
10
0
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15
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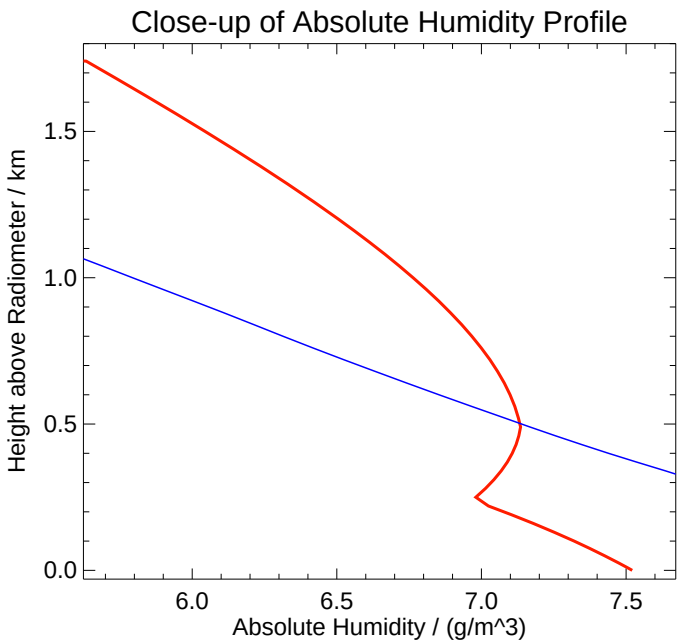
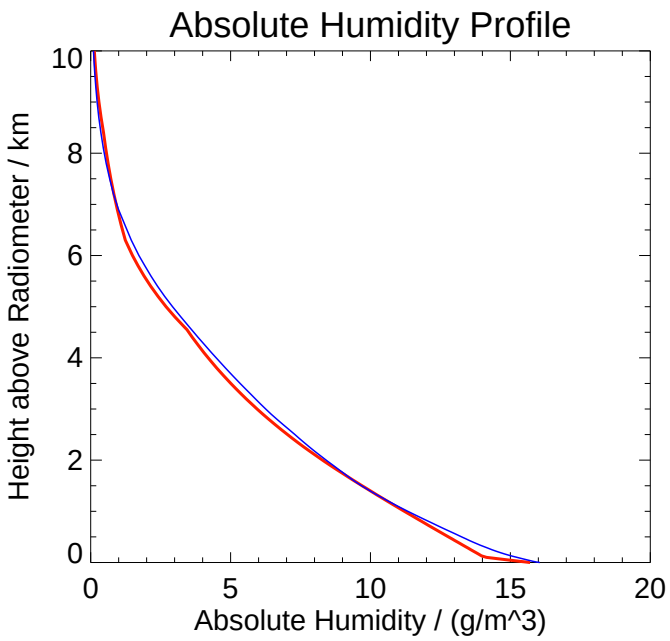

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6.0
6.5
7.0
7.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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2
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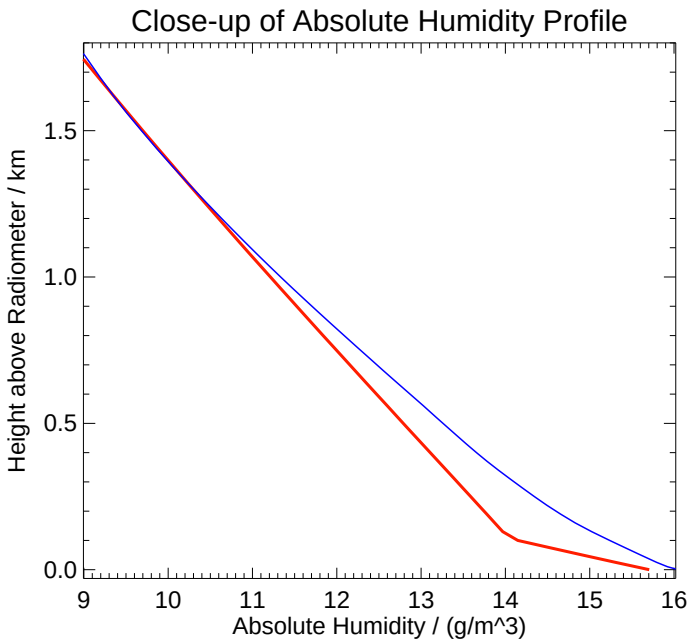
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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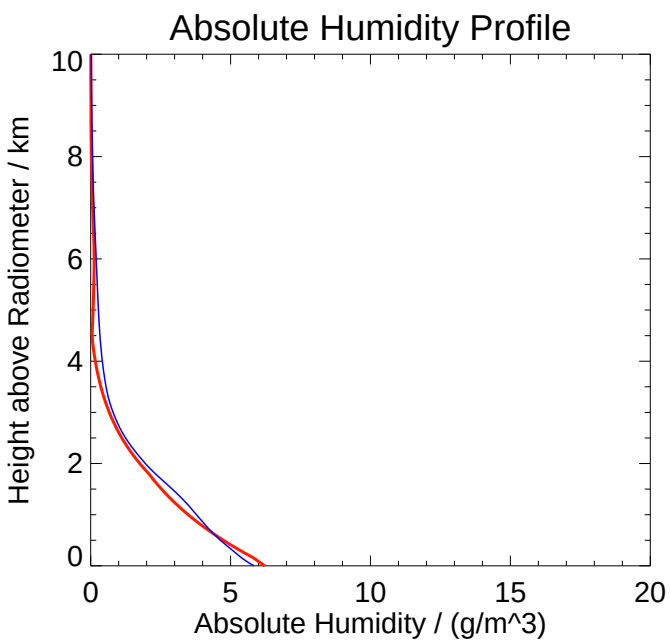
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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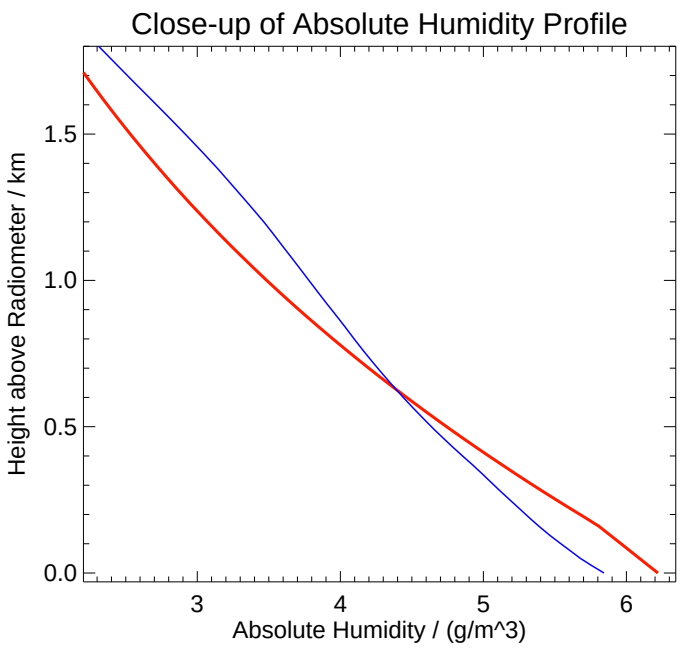
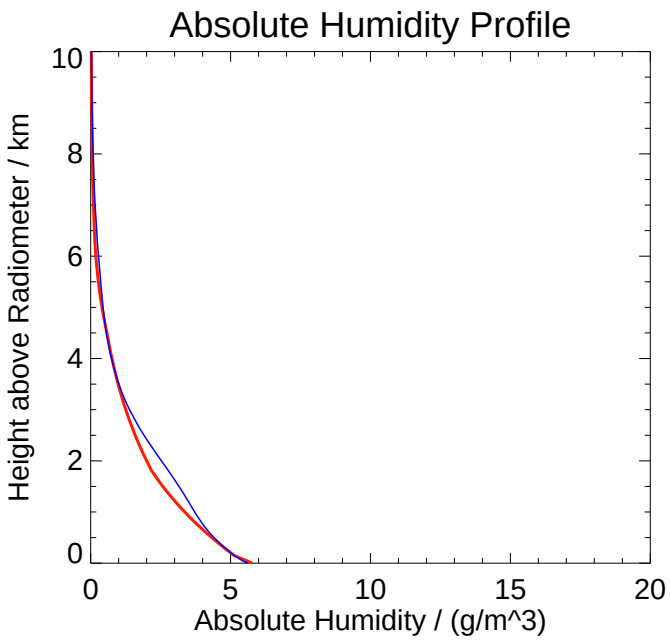

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
3
4
5
6


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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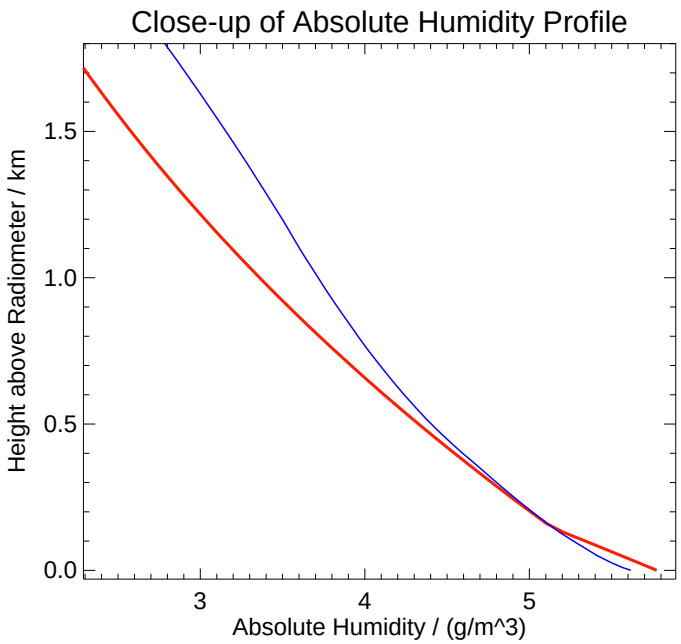
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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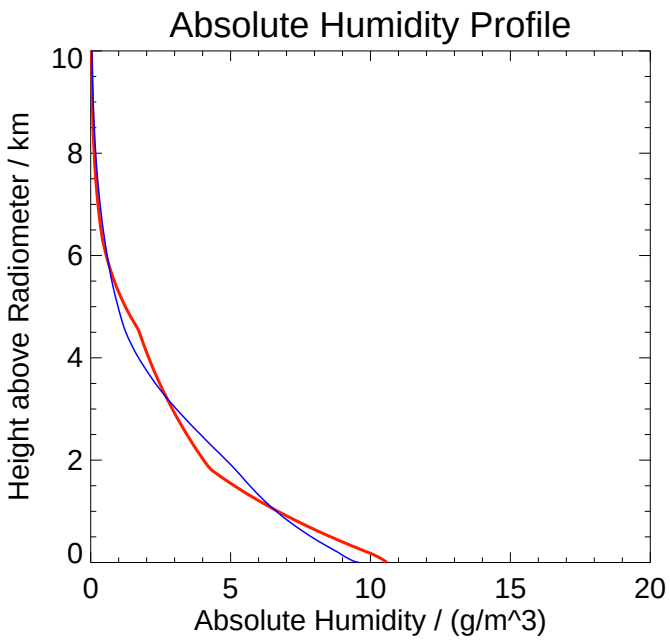
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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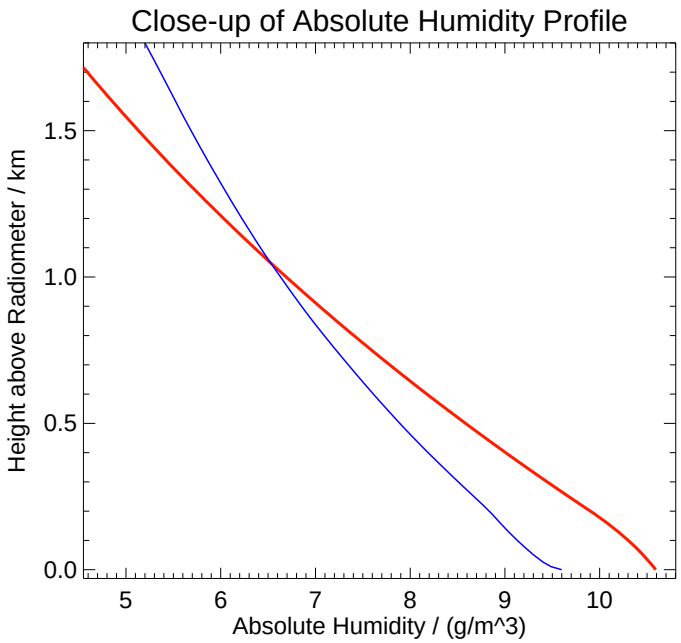
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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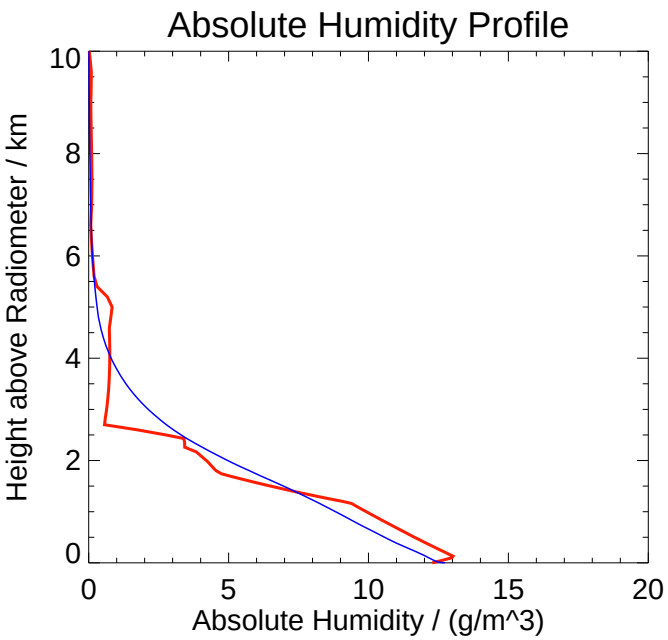
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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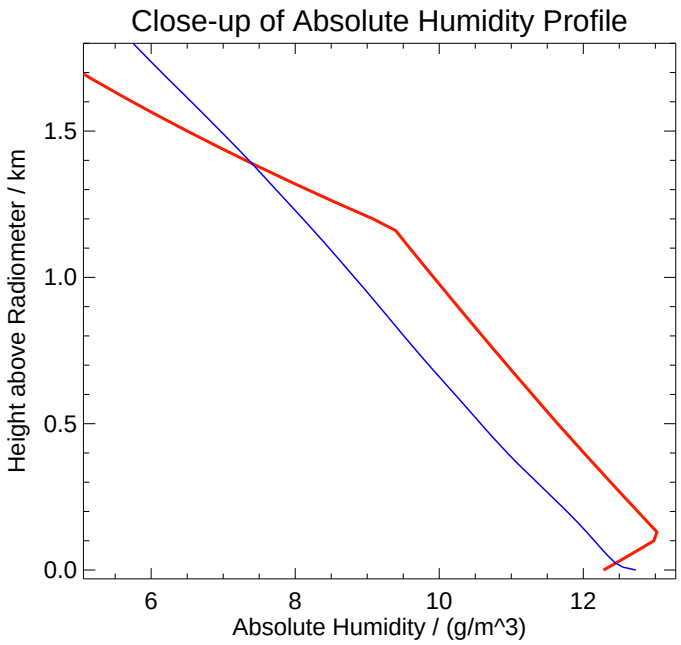
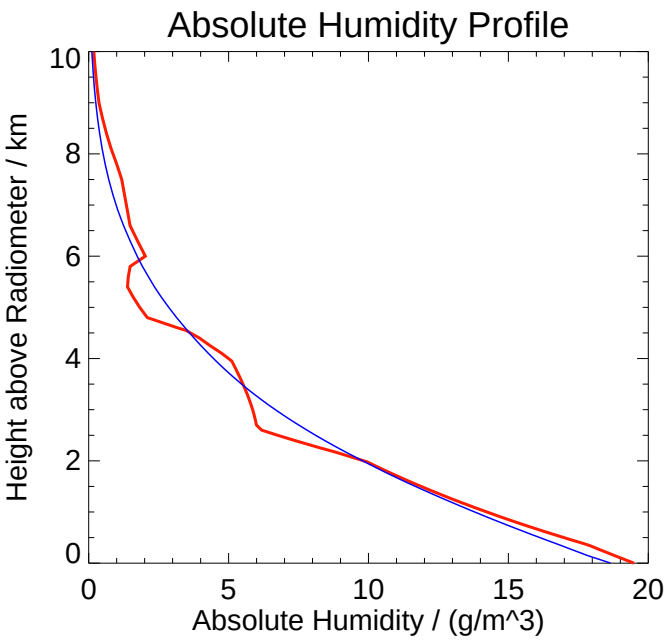

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
8
10
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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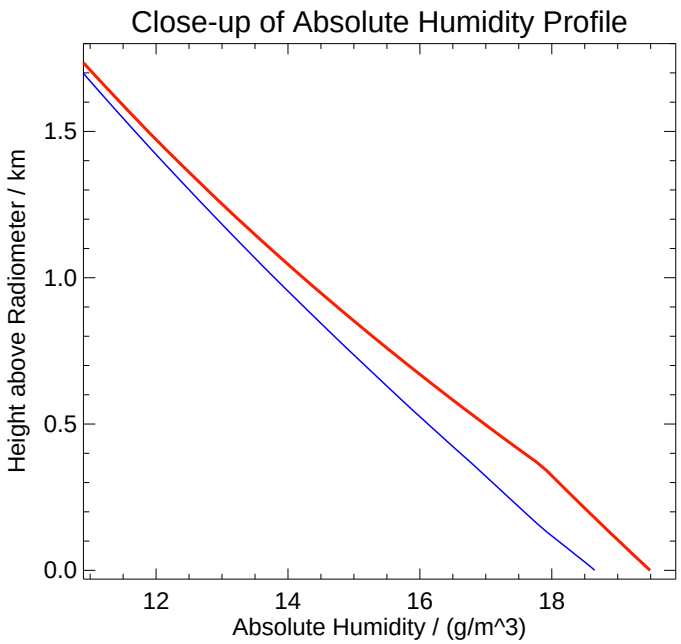
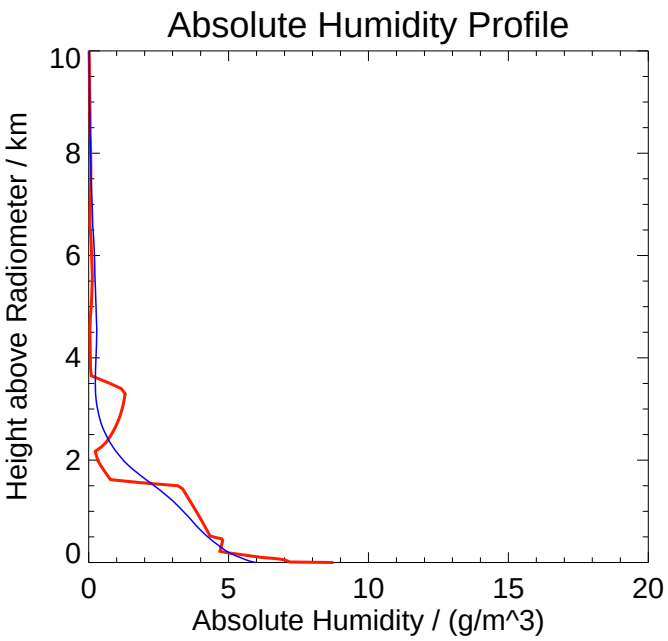
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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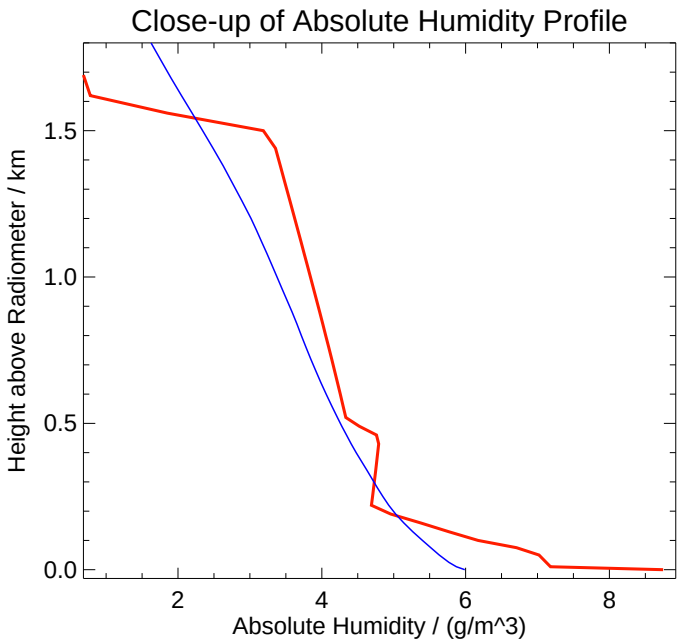
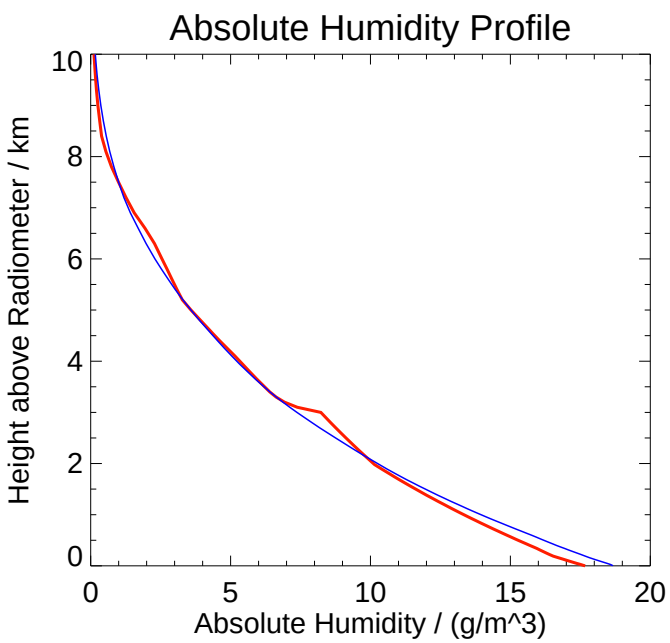

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2
4
6
8


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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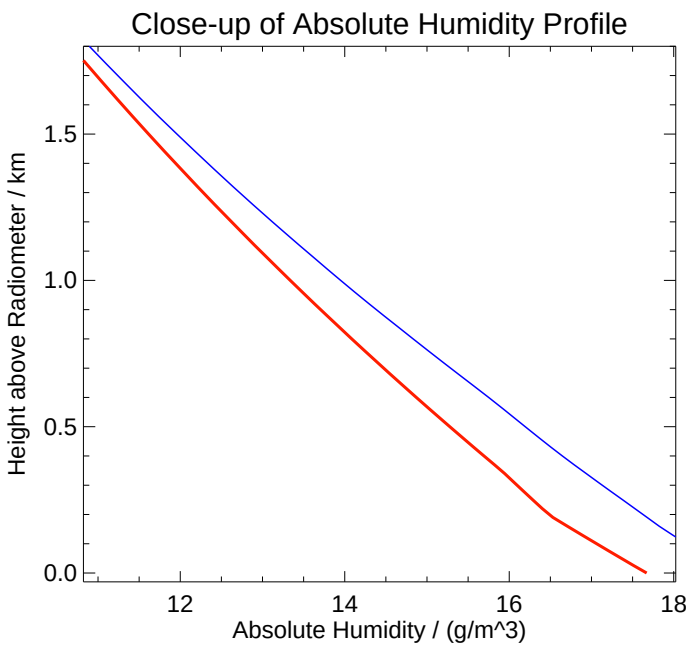
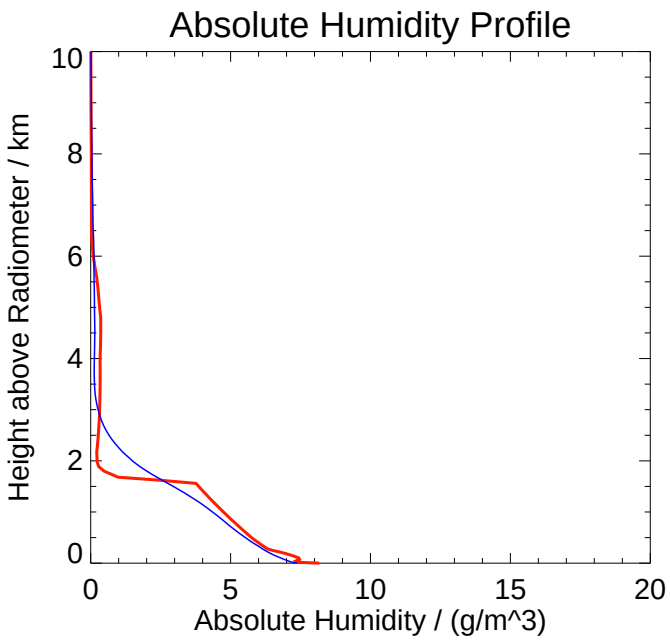

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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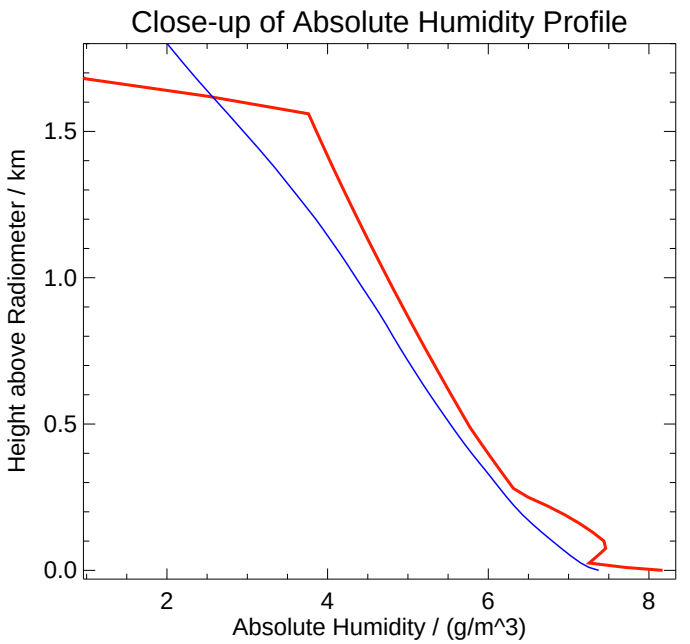
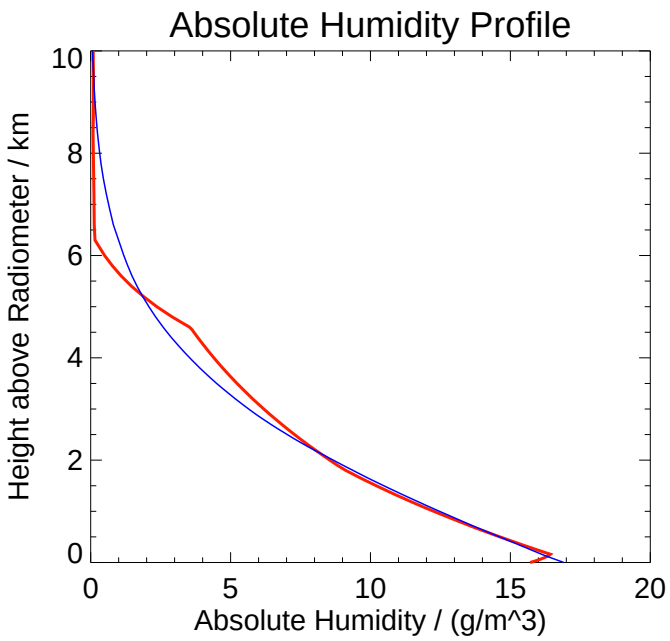

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2
4
6
8


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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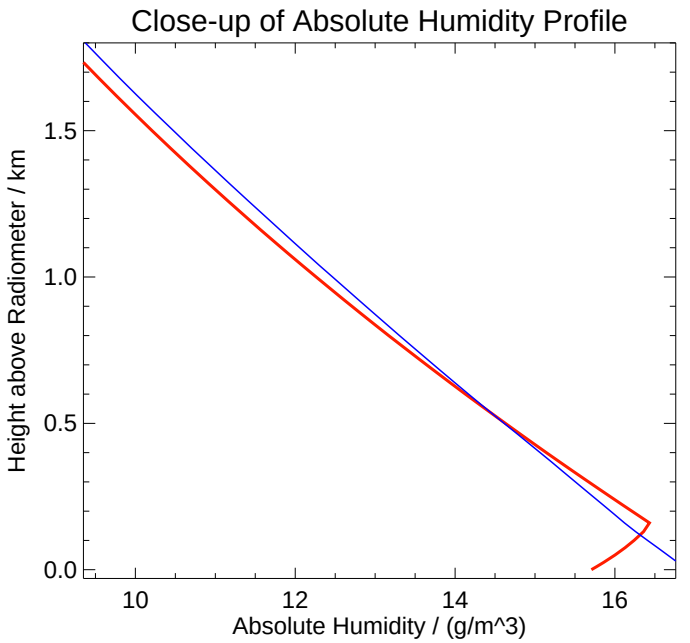
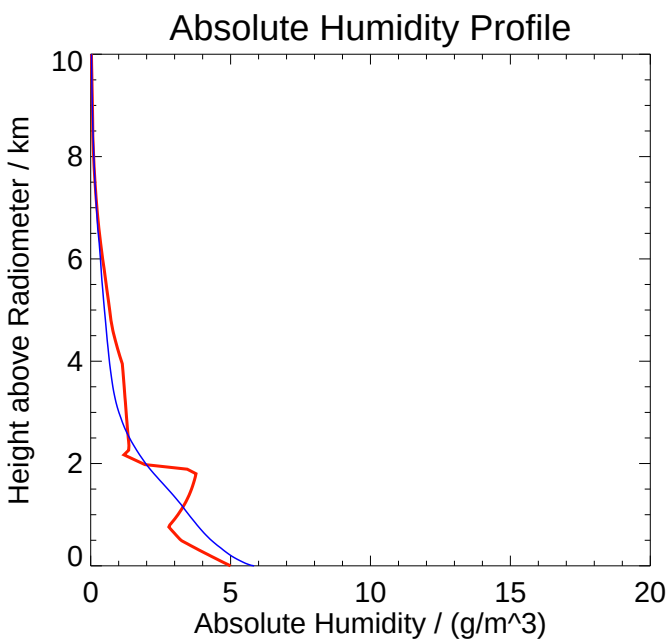
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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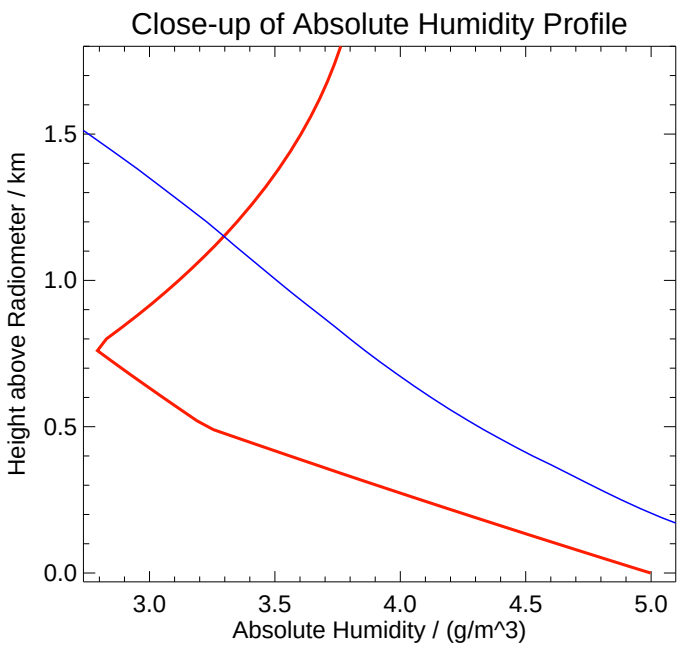
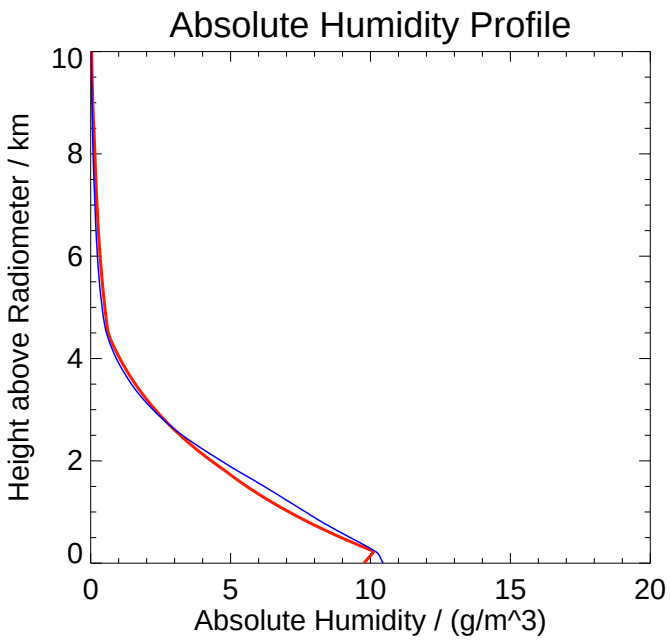
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
3.0
3.5
4.0
4.5
5.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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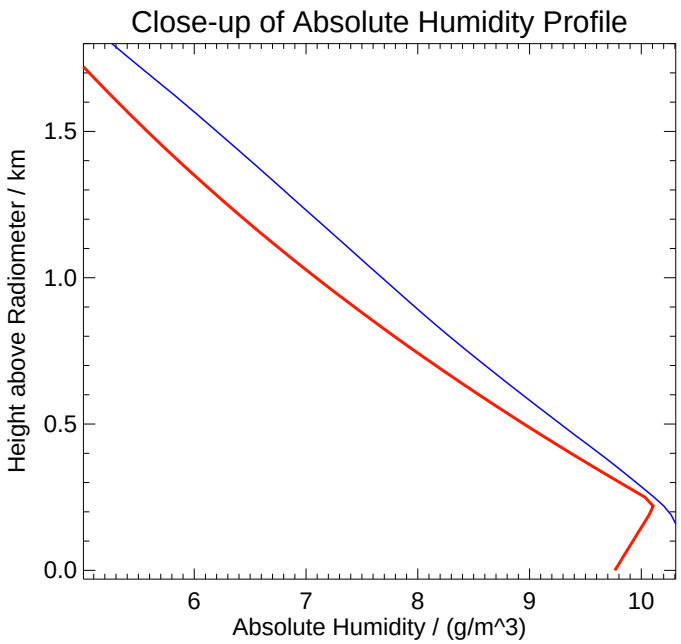
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
7
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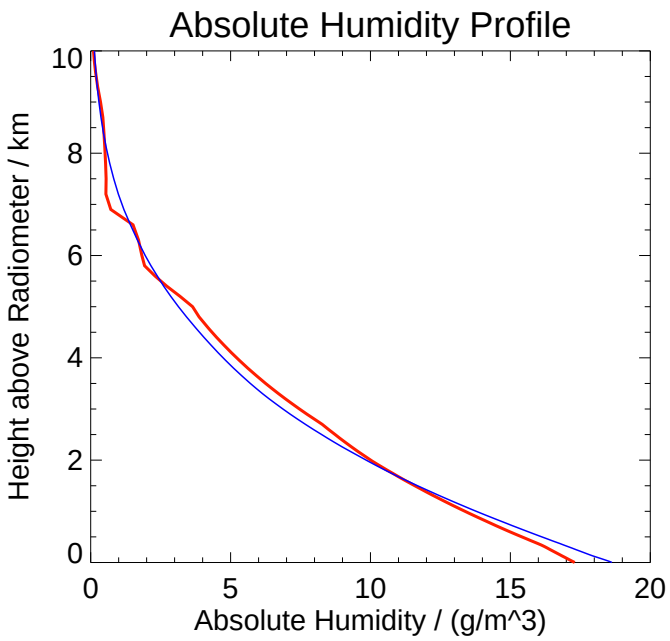
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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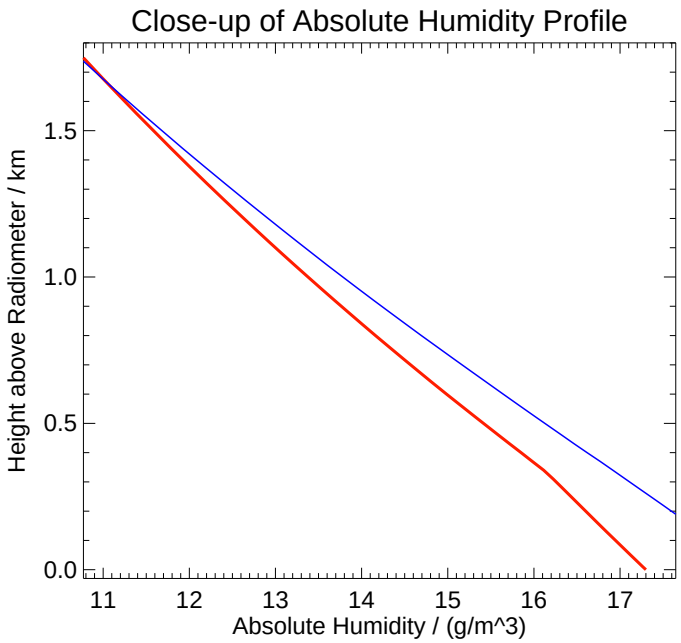
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
11
12
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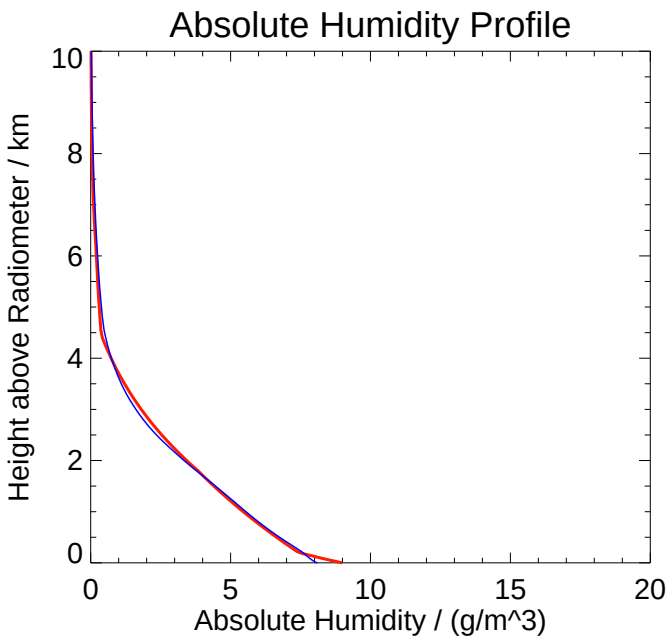
17


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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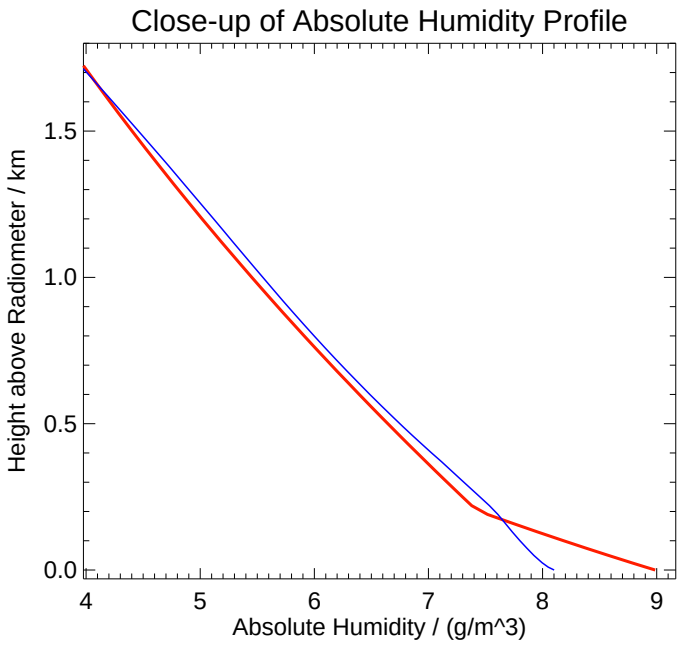
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4
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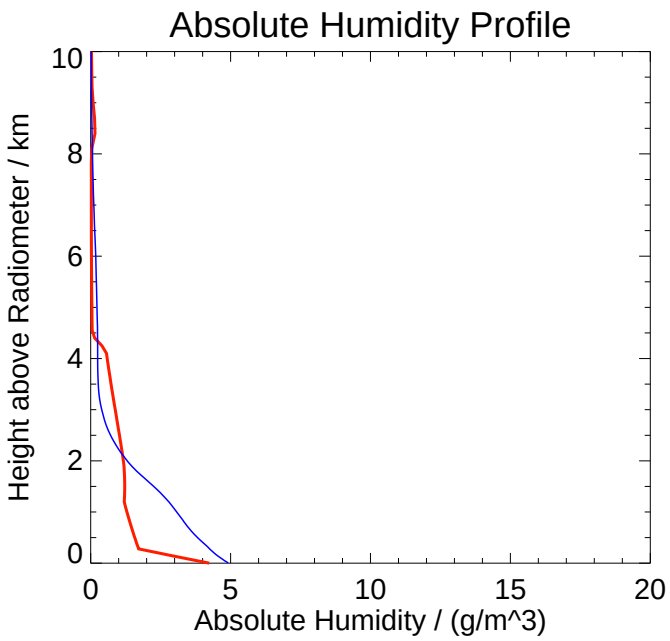
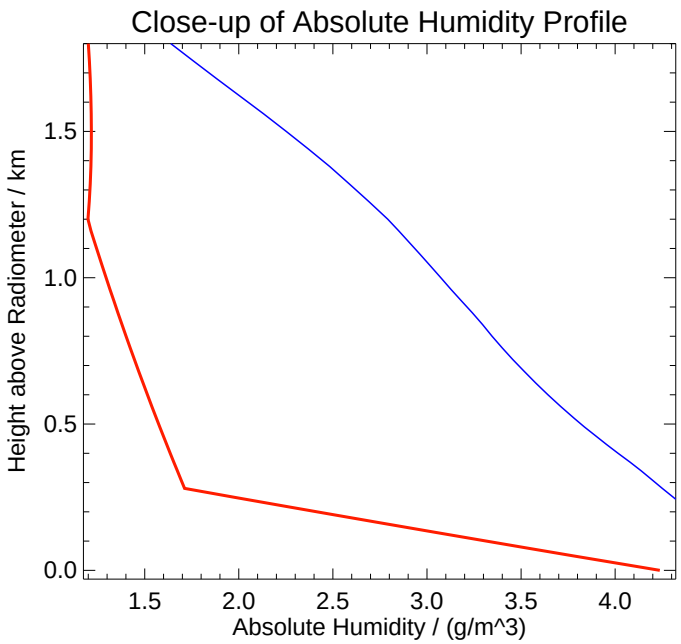
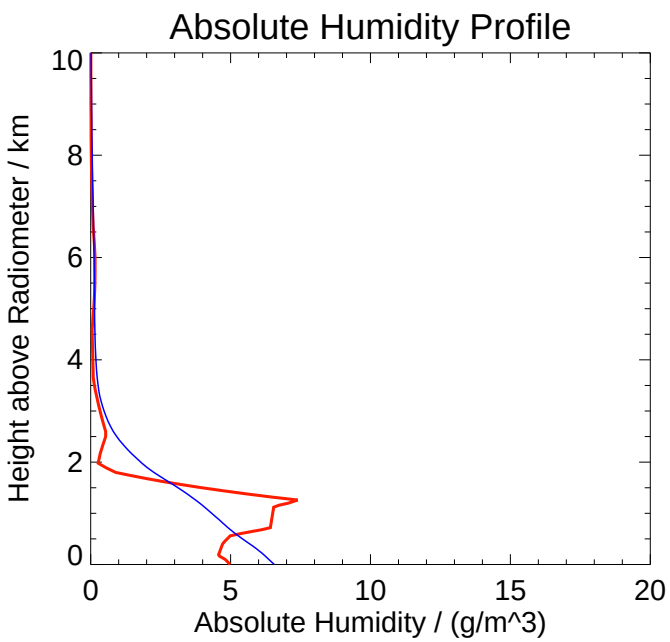
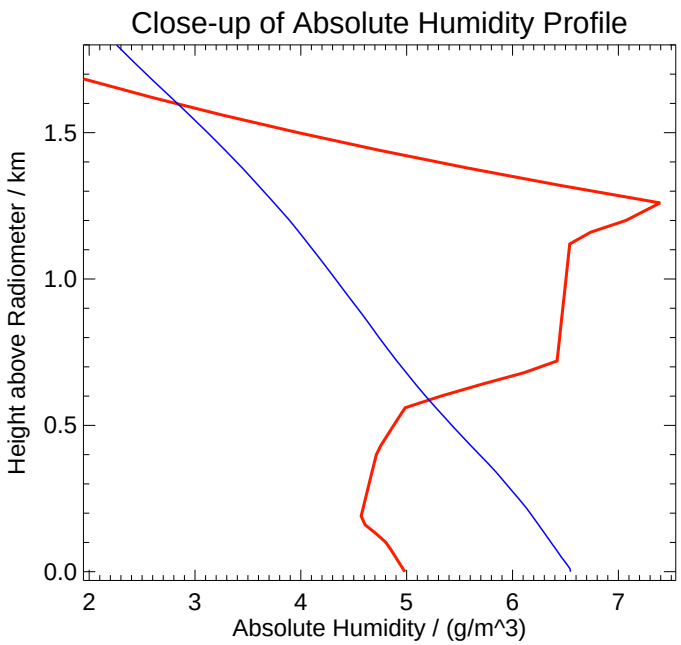
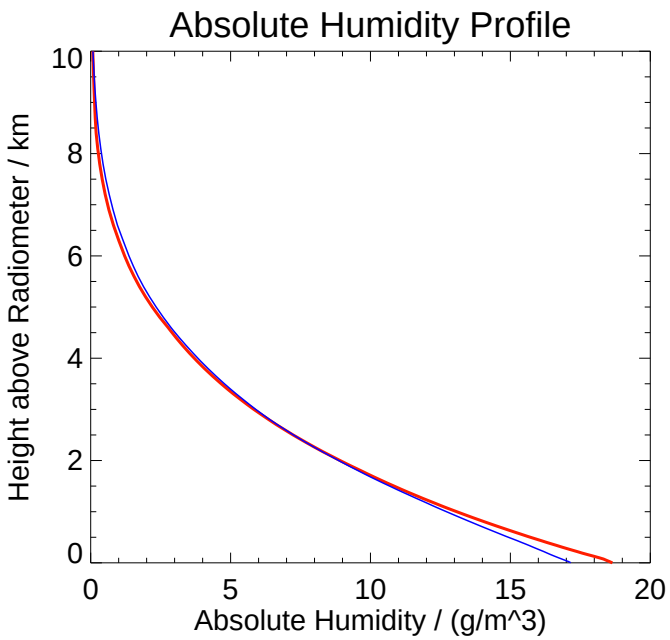
8
9


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
1.5
2.0
2.5
3.0
3.5
4.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2
3
4
5
6
7


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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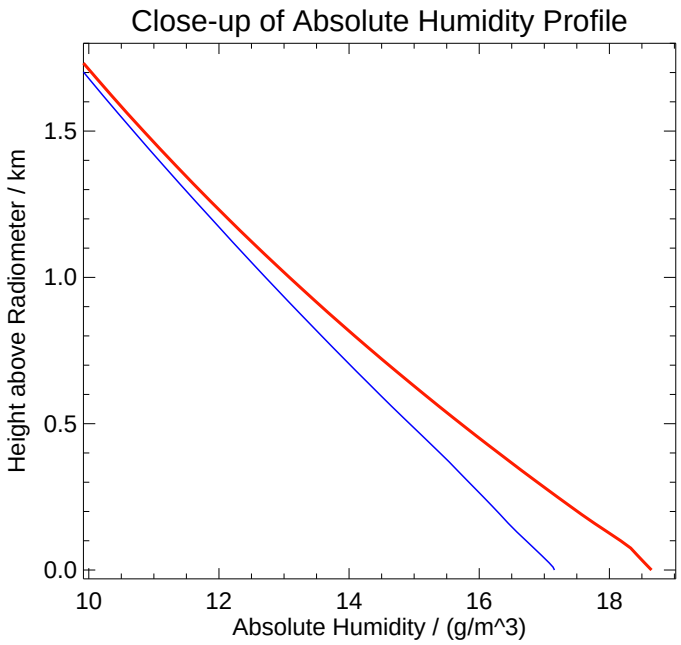
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
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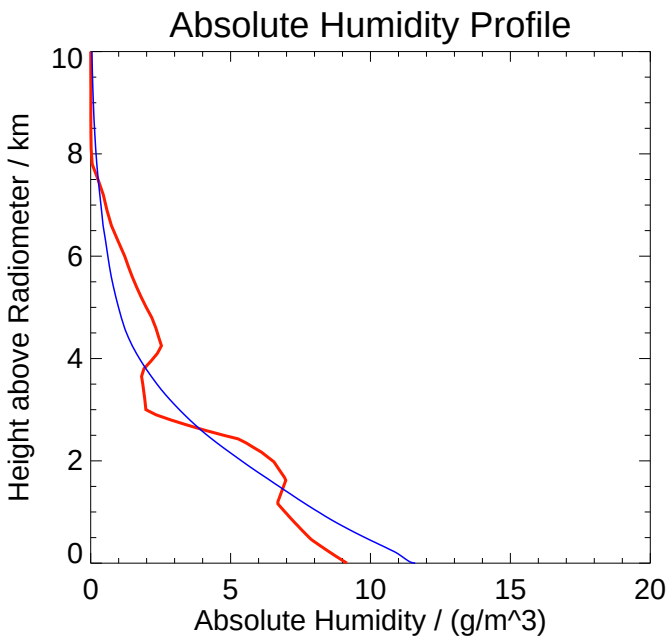
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
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15
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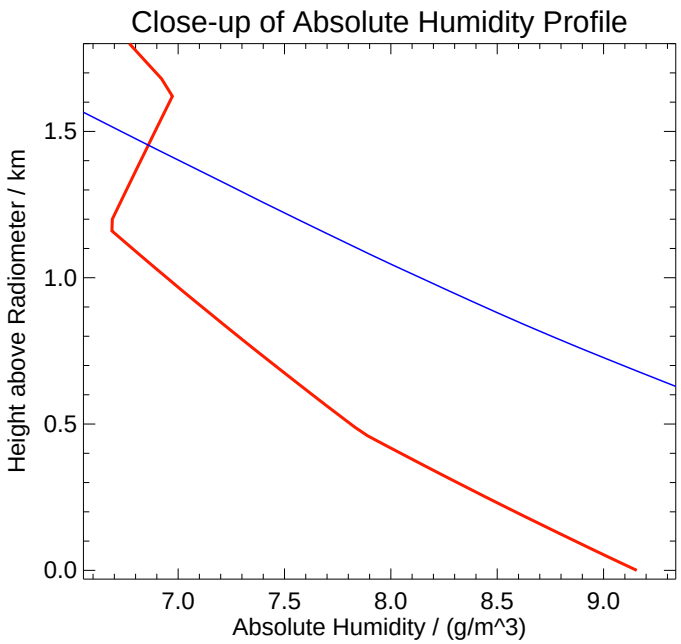
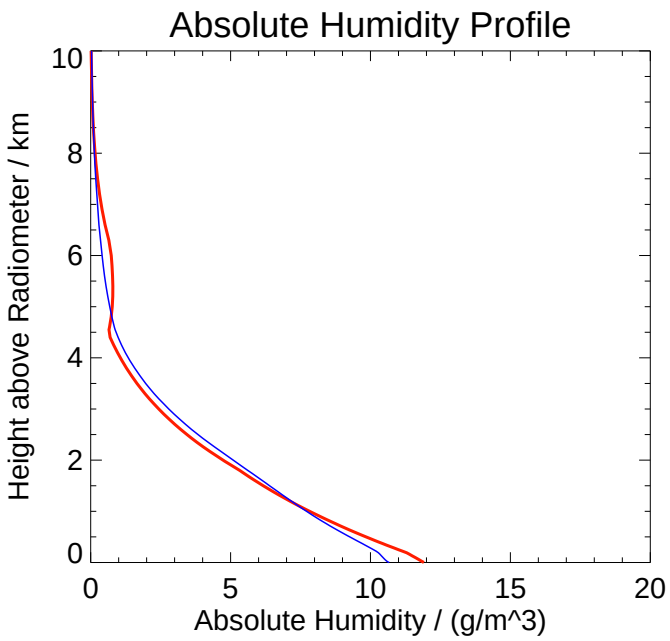

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
7.0
7.5
8.0
8.5
9.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
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0
5
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15
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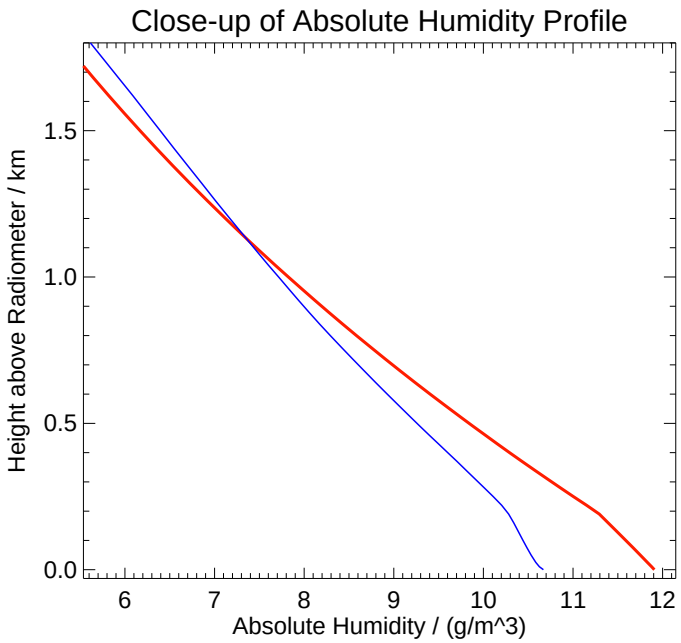
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
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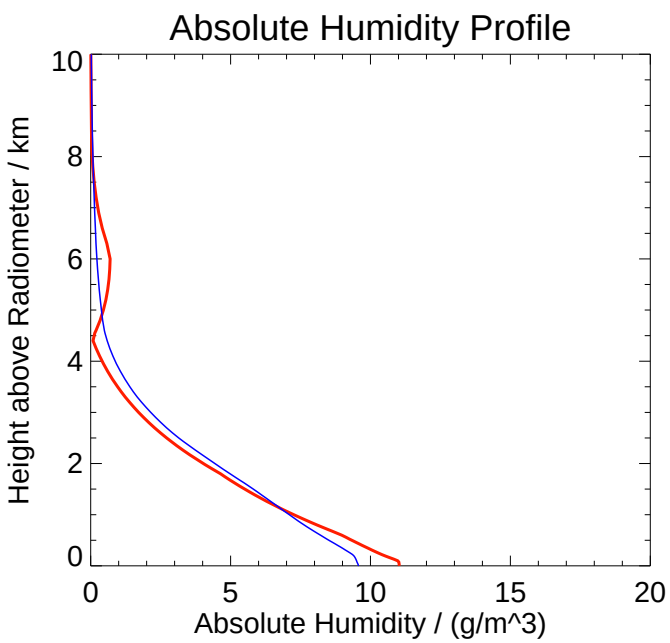
9
10
11
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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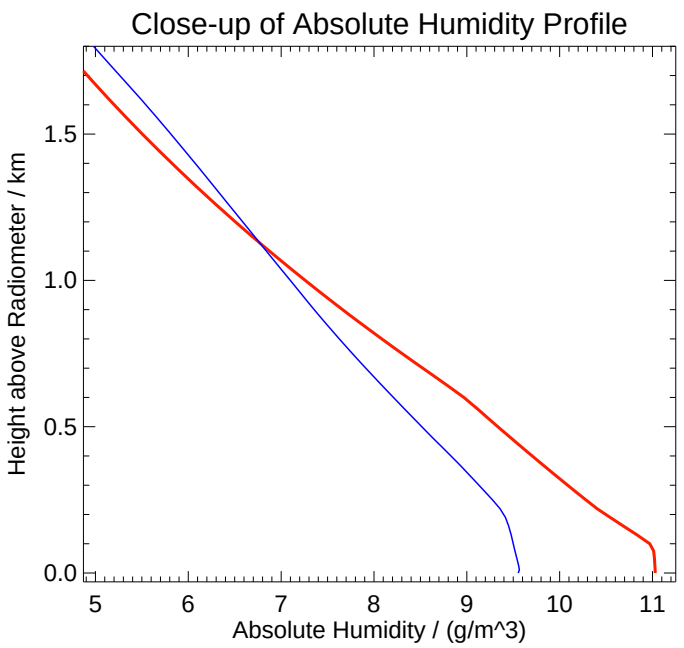
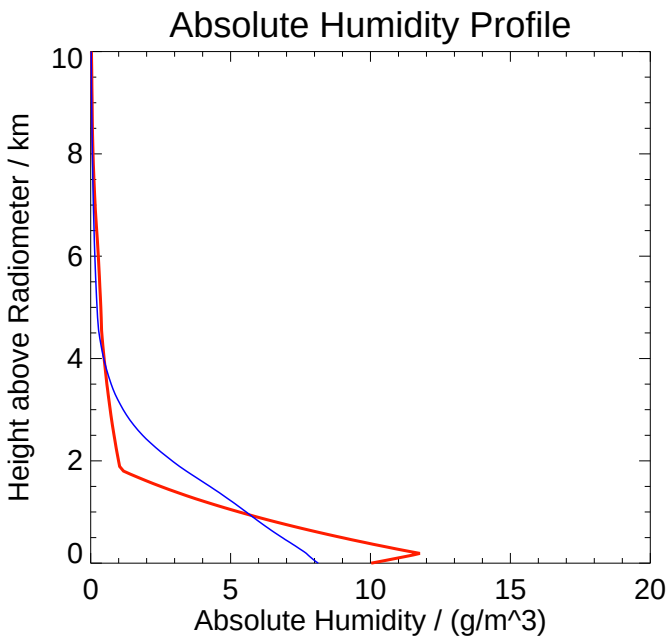

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
5
6
7
8
9
10
11


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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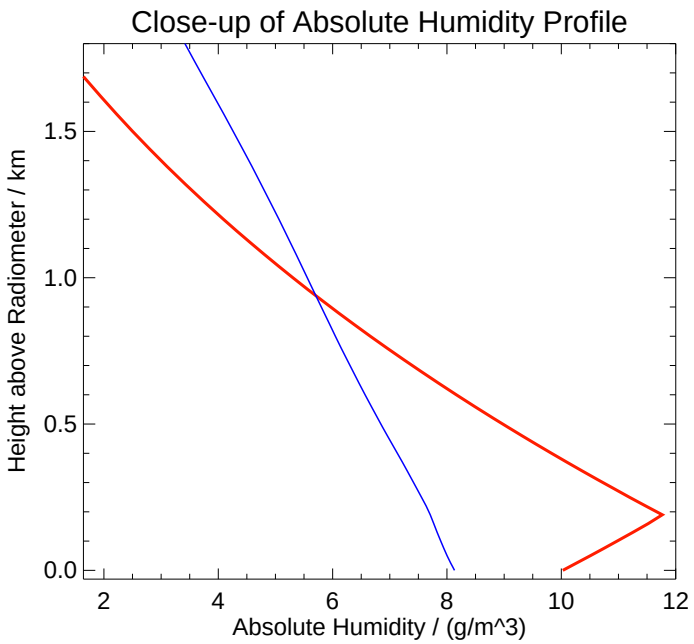
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2
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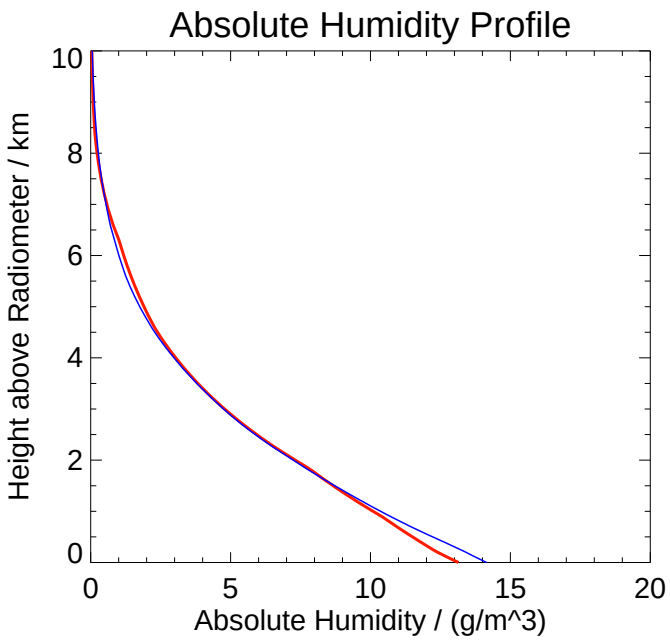
6
8
10
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
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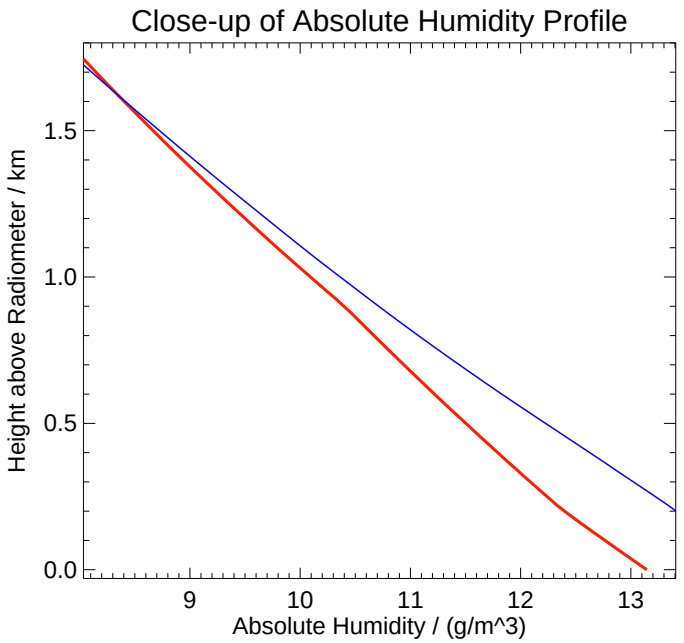
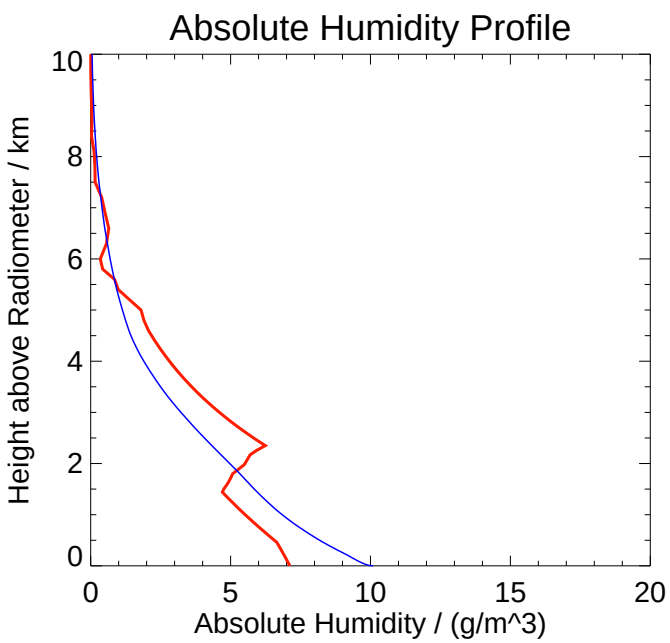
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
9
10
11
12
13


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
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15
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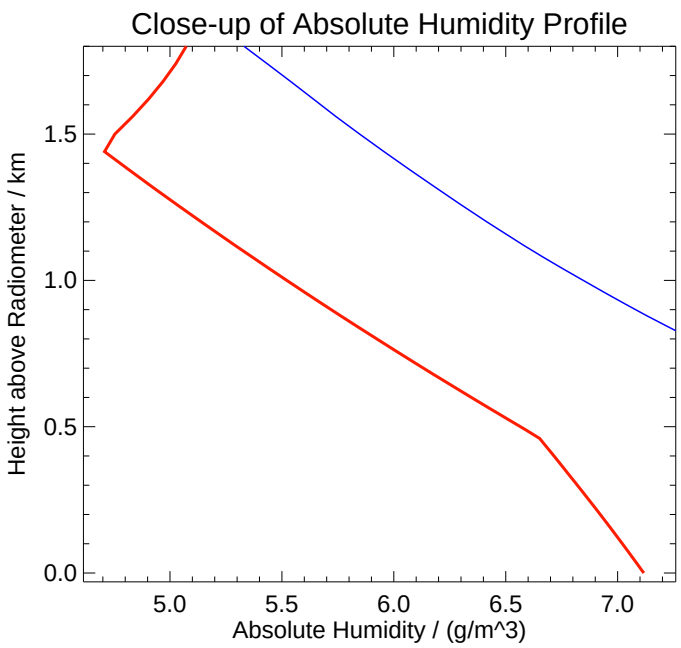
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
5.0
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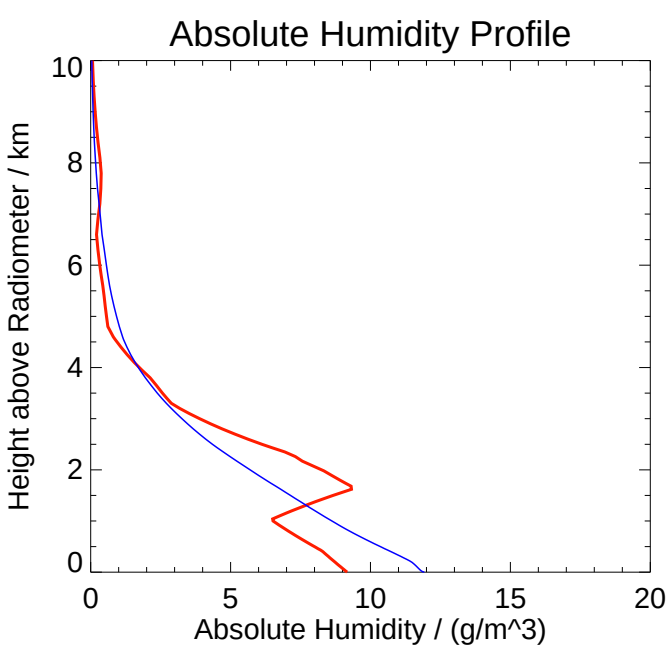
6.0
6.5
7.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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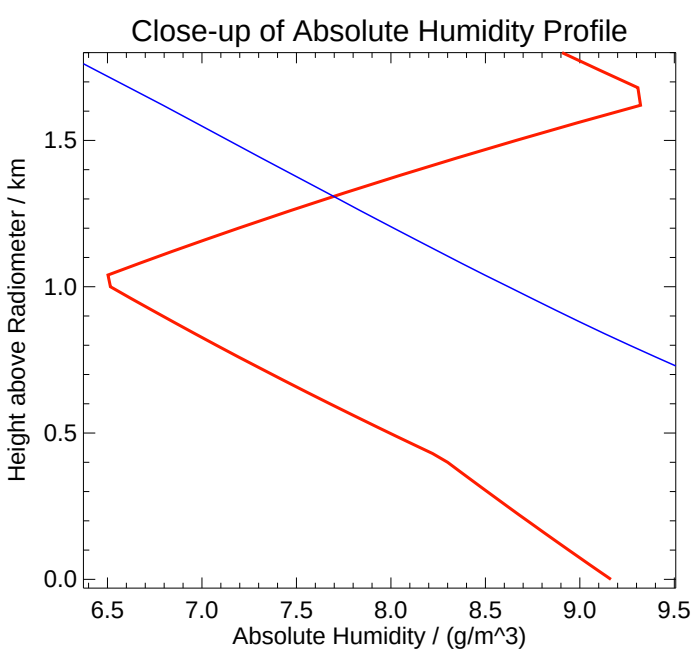
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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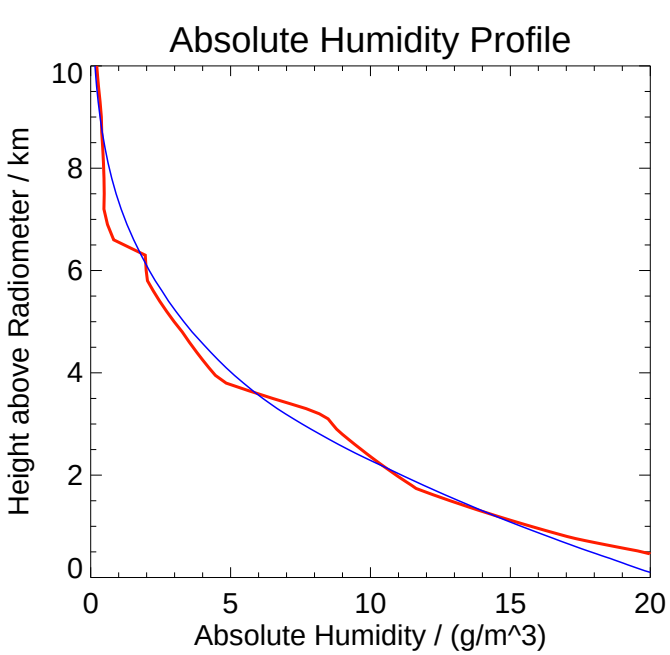
0.5
1.0
1.5
6.5
7.0
7.5
8.0
8.5
9.0
9.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
5
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15
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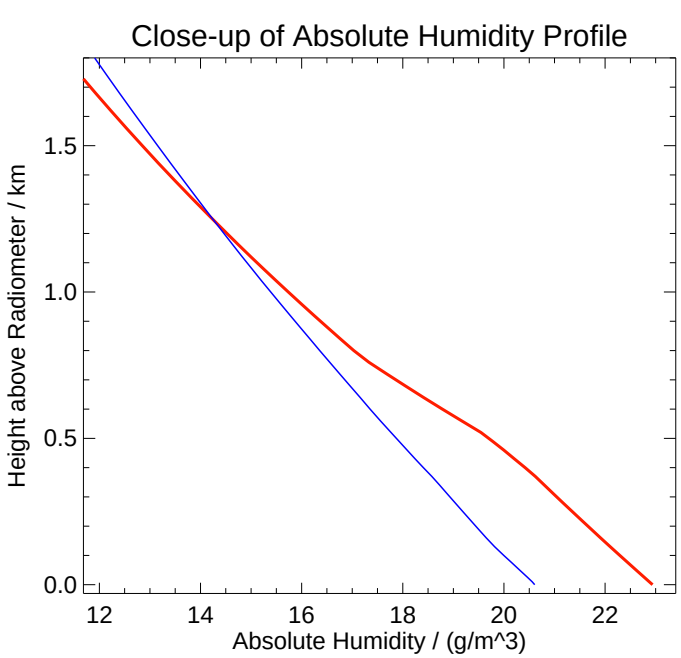
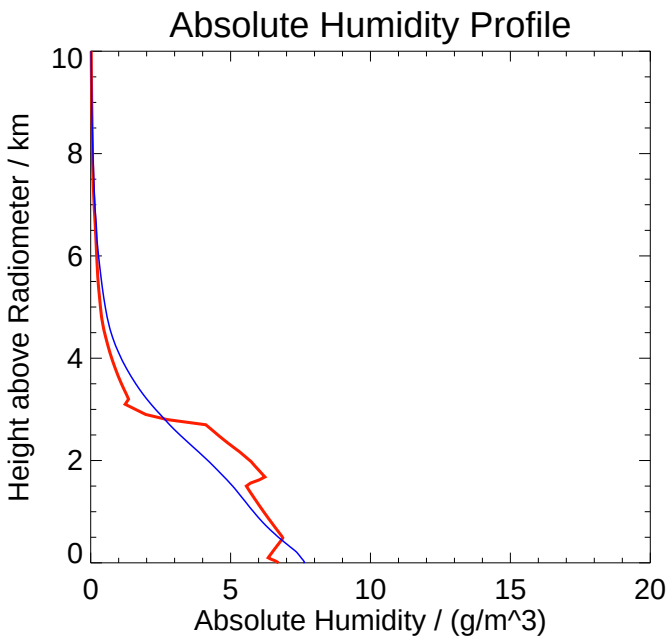

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18
20
22


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
8
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0
5
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15
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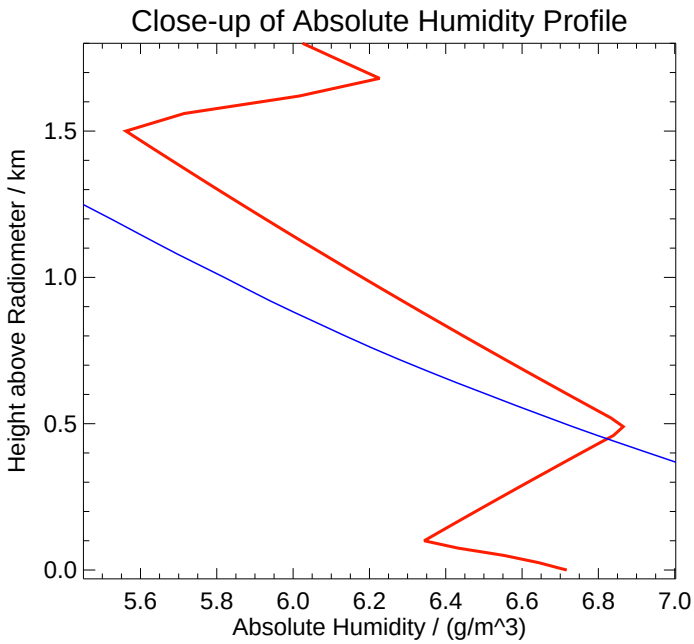
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
5.6
5.8
6.0
6.2
6.4
6.6
6.8
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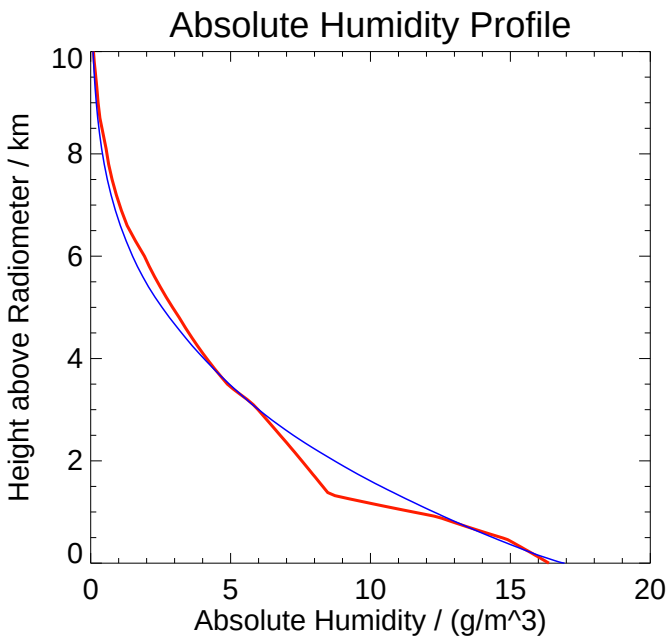
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
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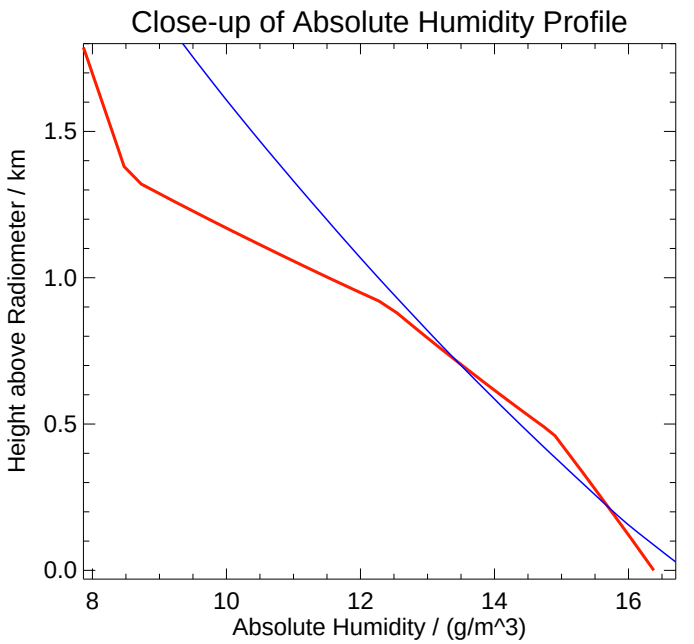
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8
10
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14
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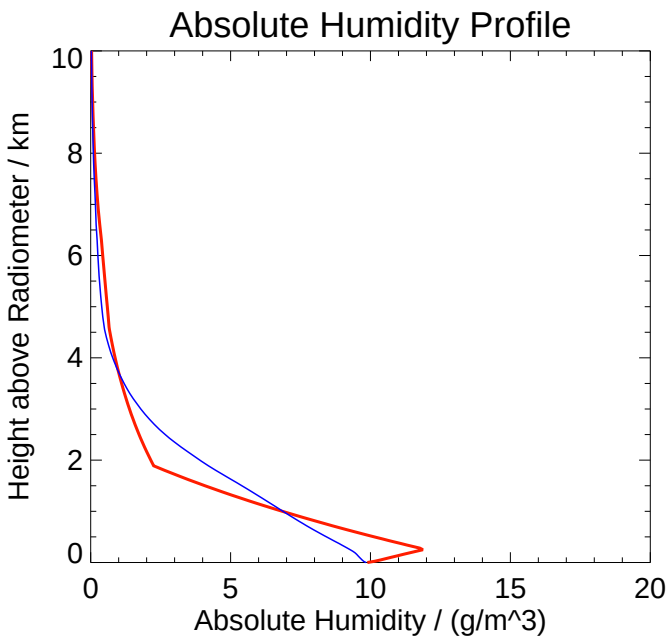
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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6
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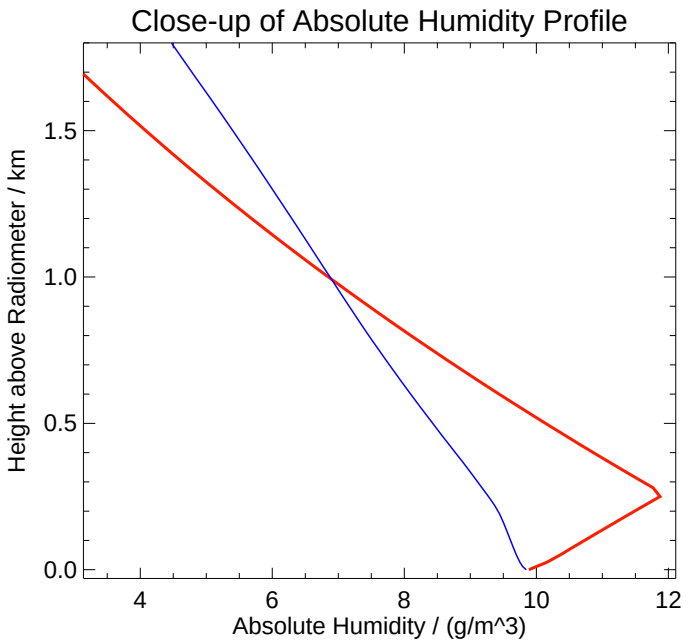
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4
6
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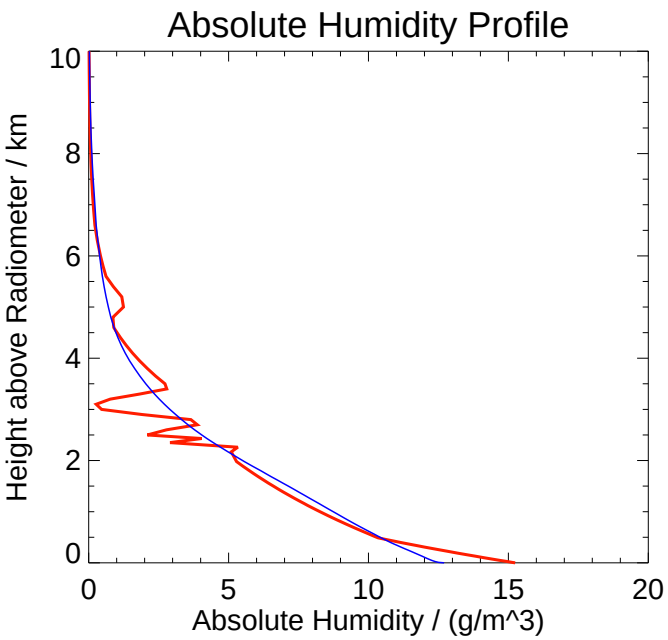
10
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
8
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0
5
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15
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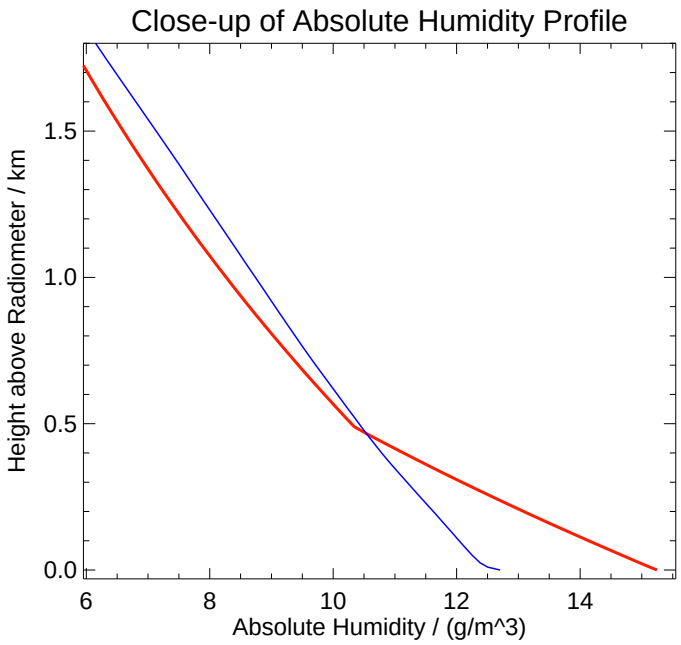
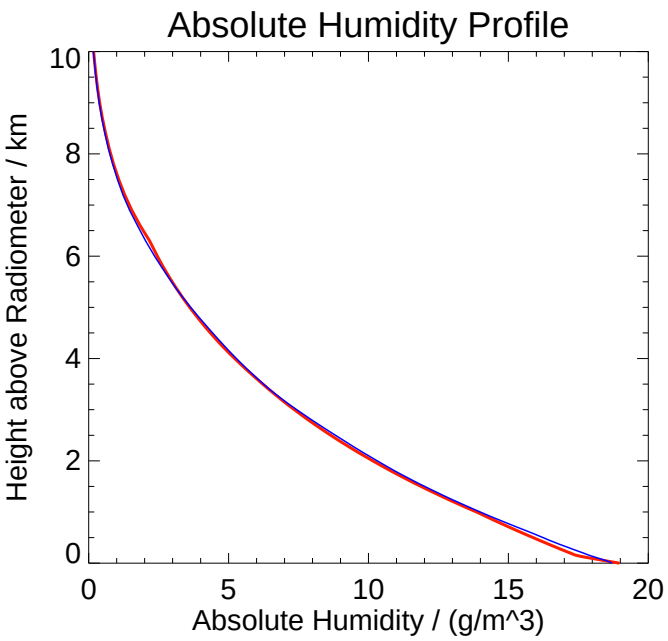

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
8
10
12
14


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
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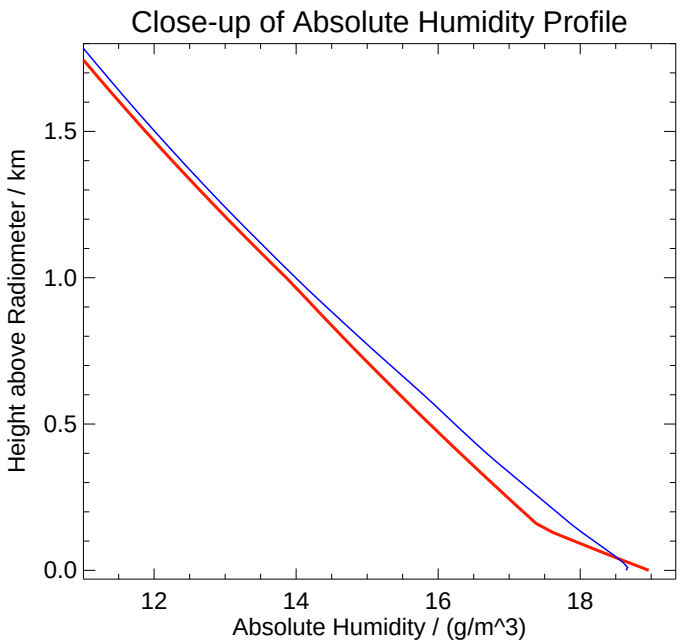
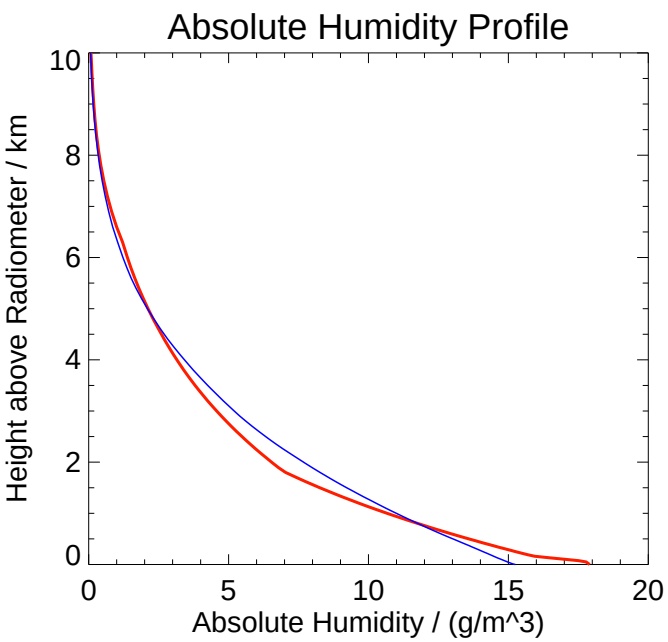

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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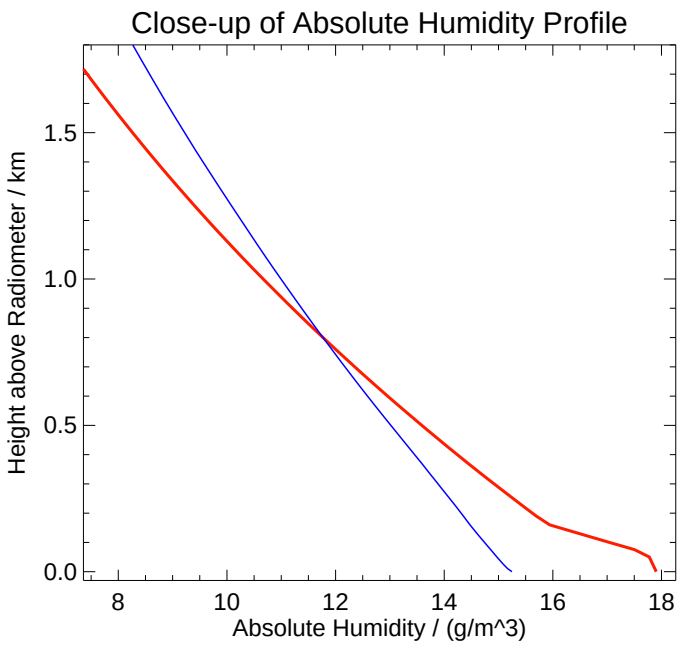
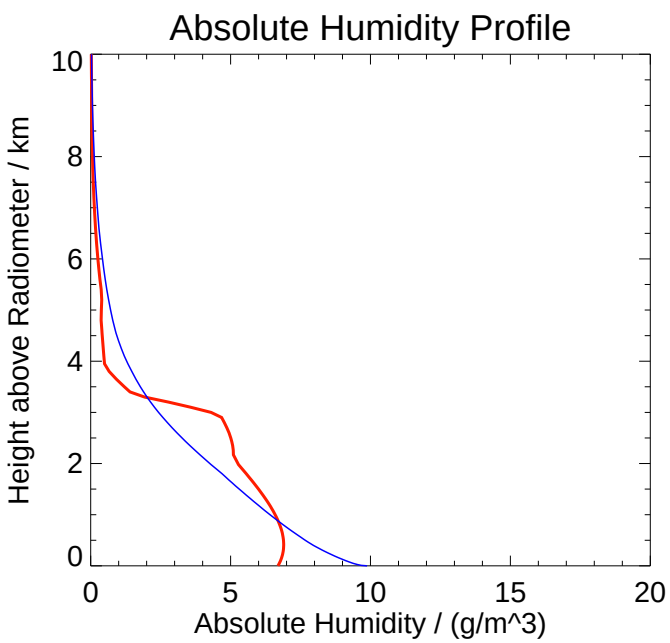

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8
10
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
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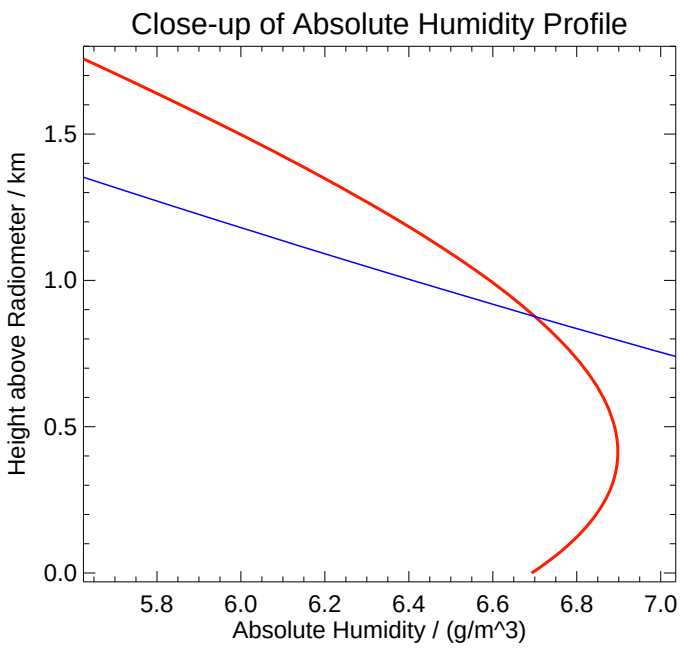
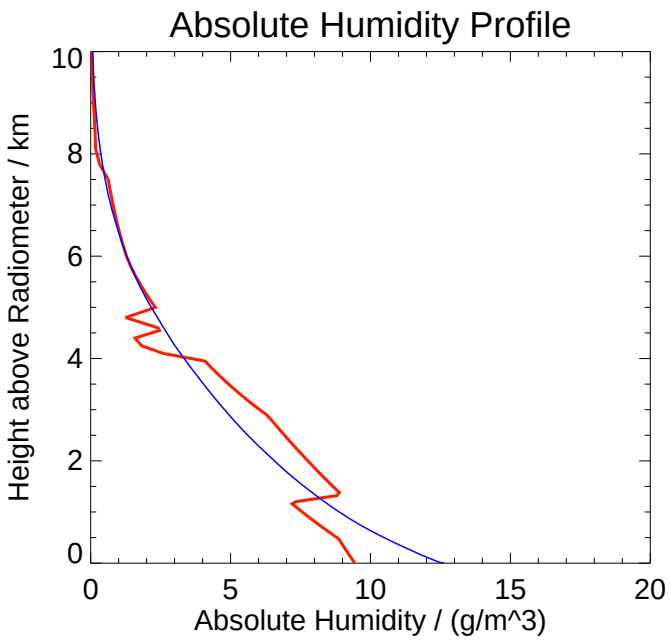

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
5.8
6.0
6.2
6.4
6.6
6.8
7.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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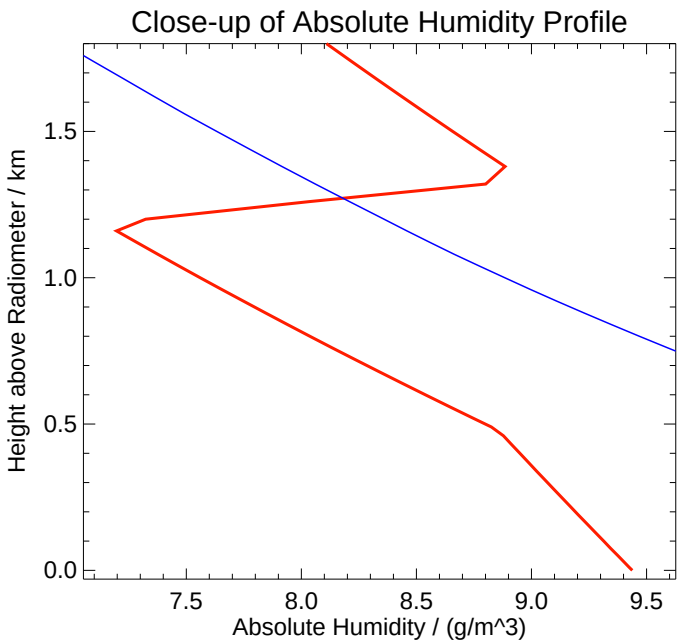
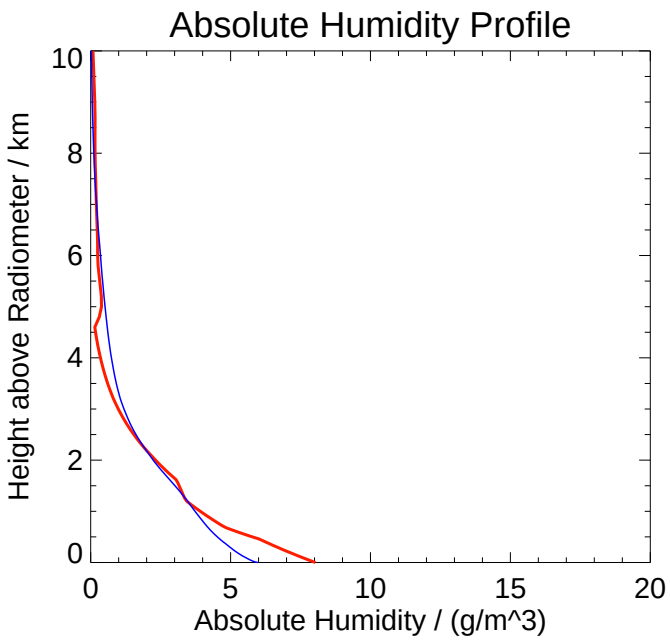

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
7.5
8.0
8.5
9.0
9.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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8
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0
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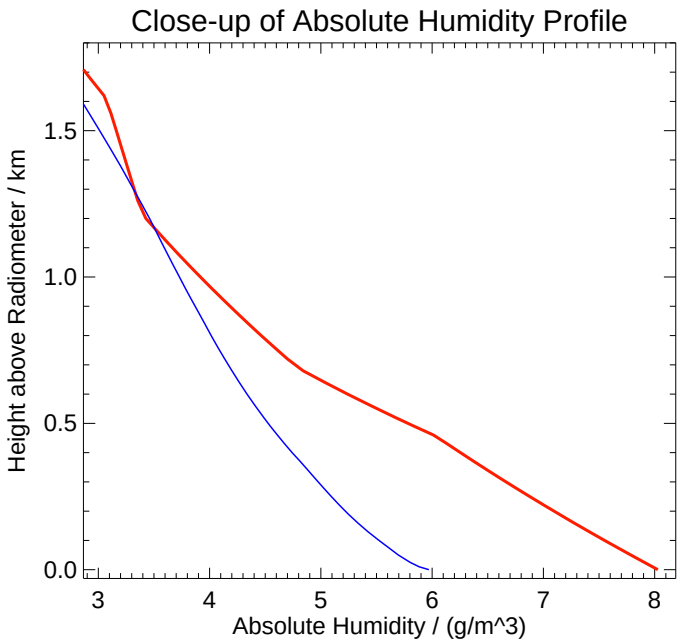
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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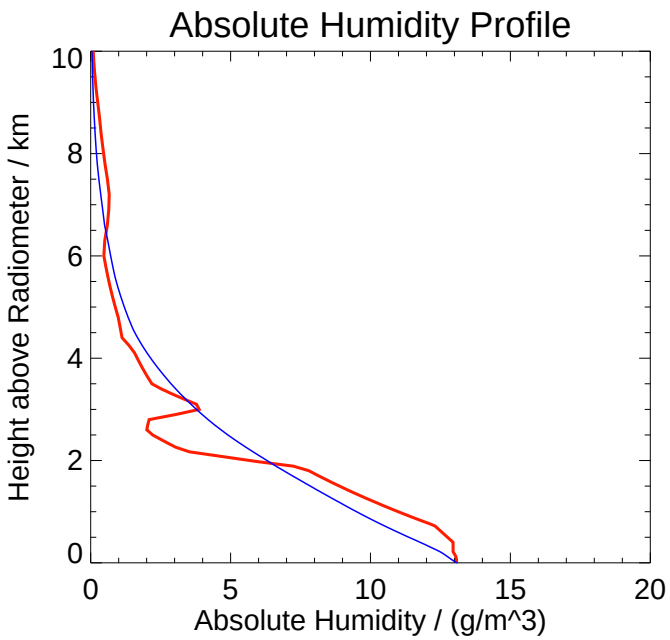
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
8
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15
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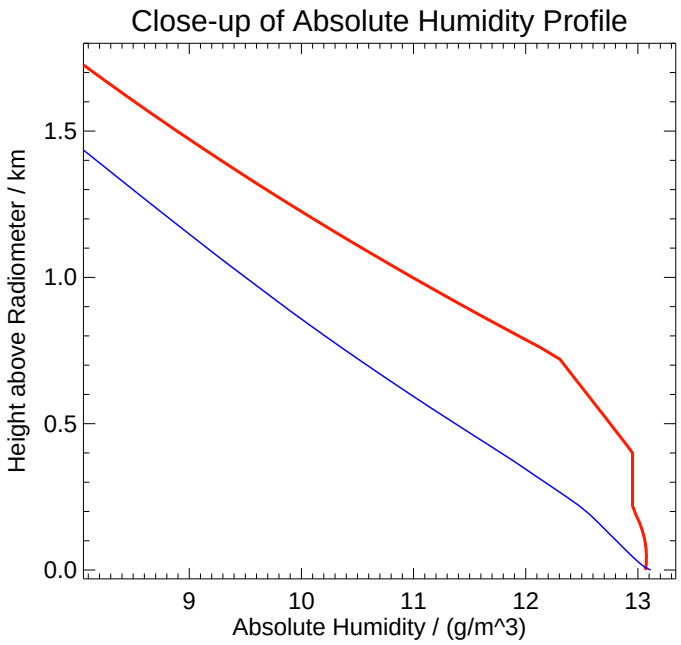
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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10
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12
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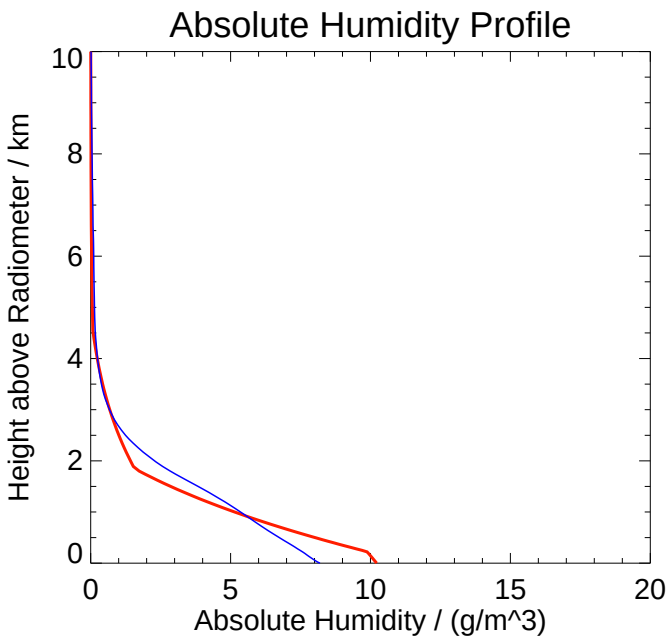
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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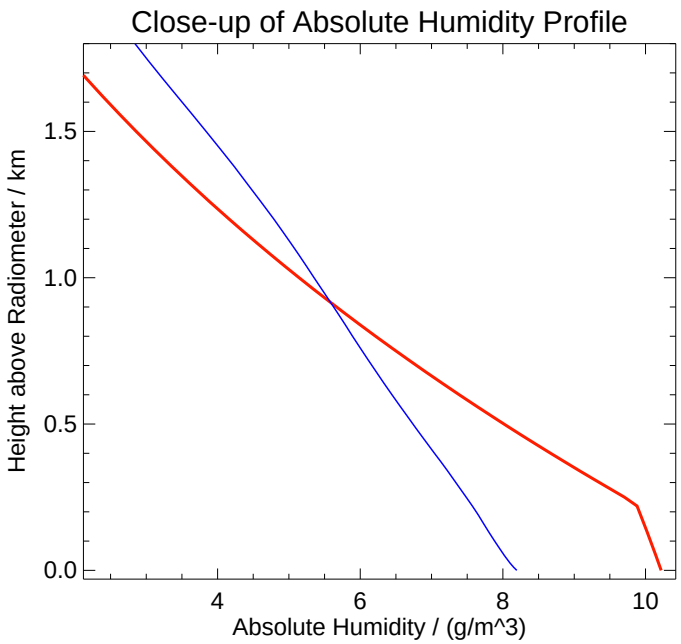
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
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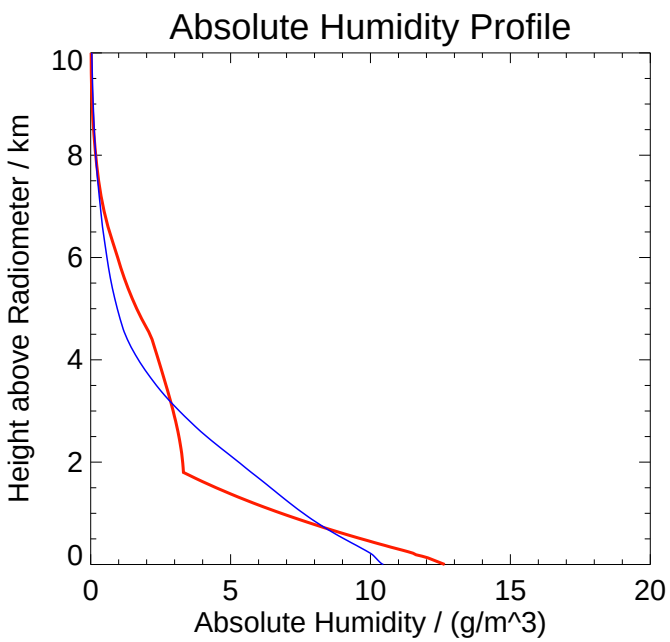
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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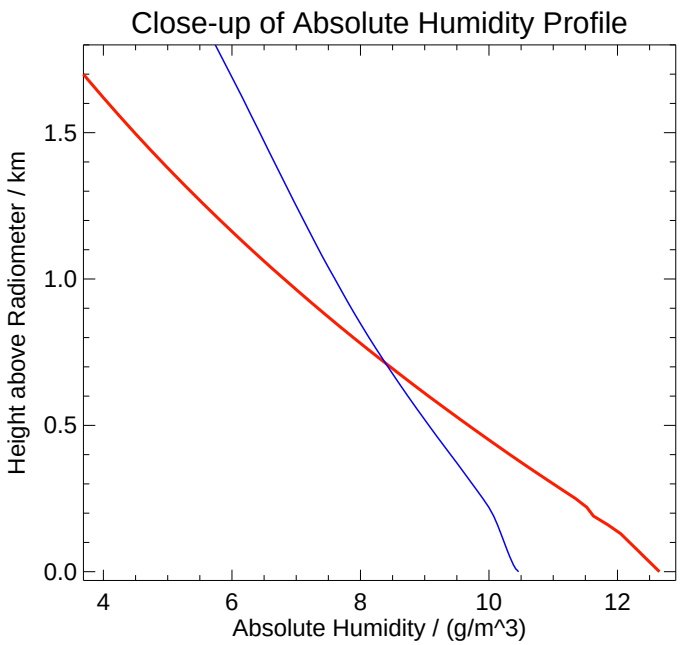
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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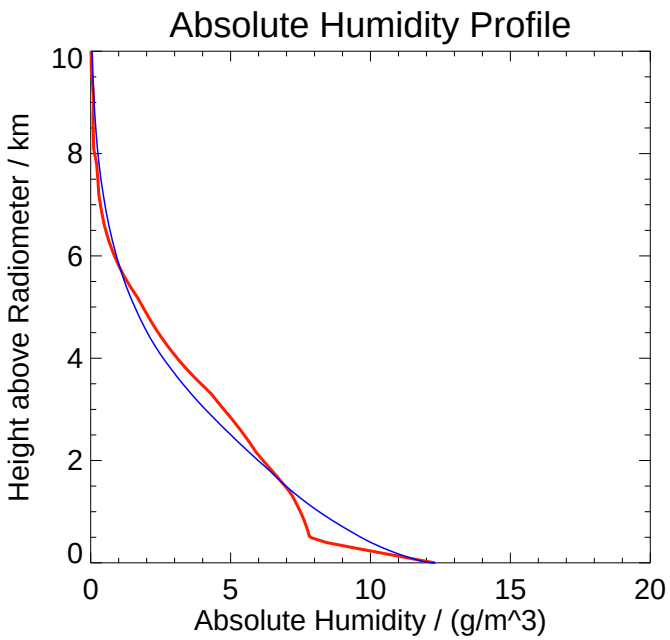
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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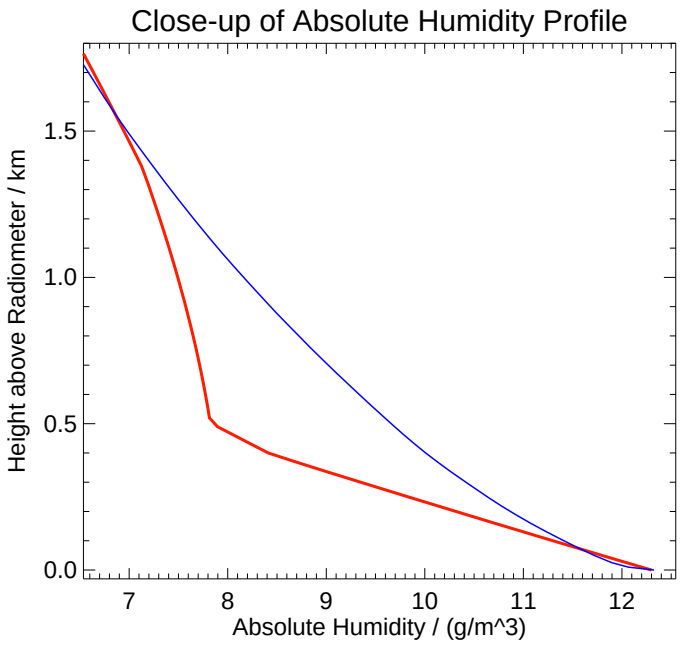
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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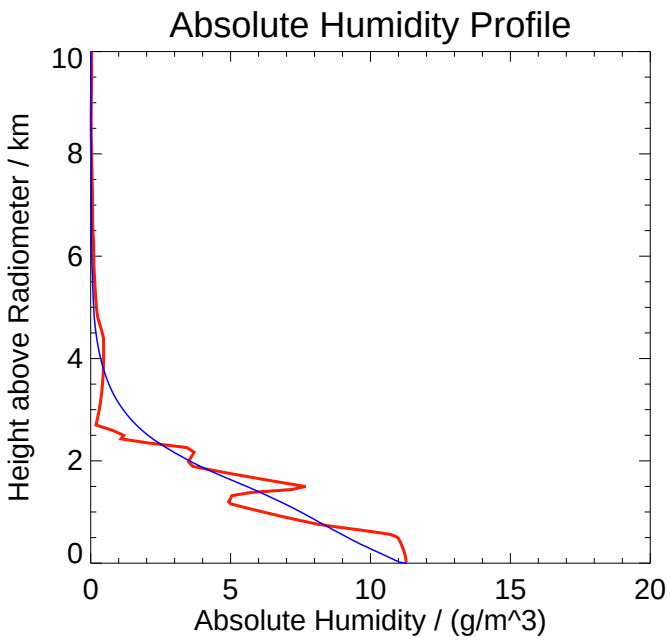
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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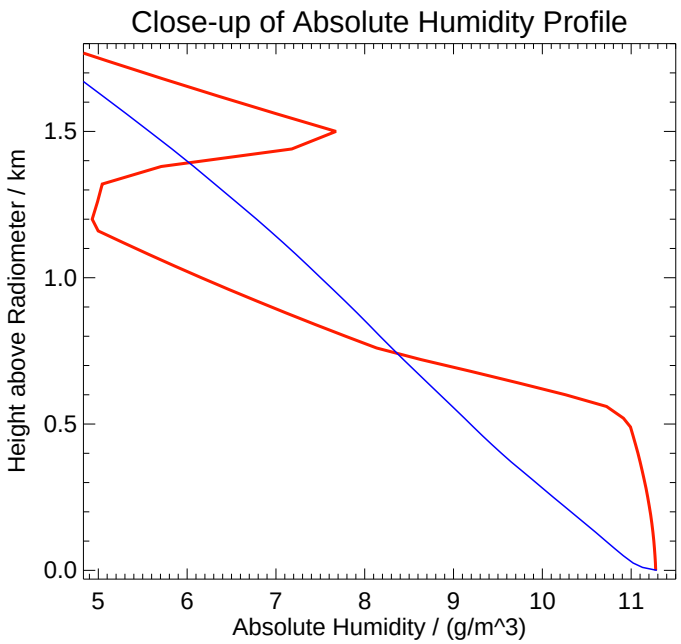
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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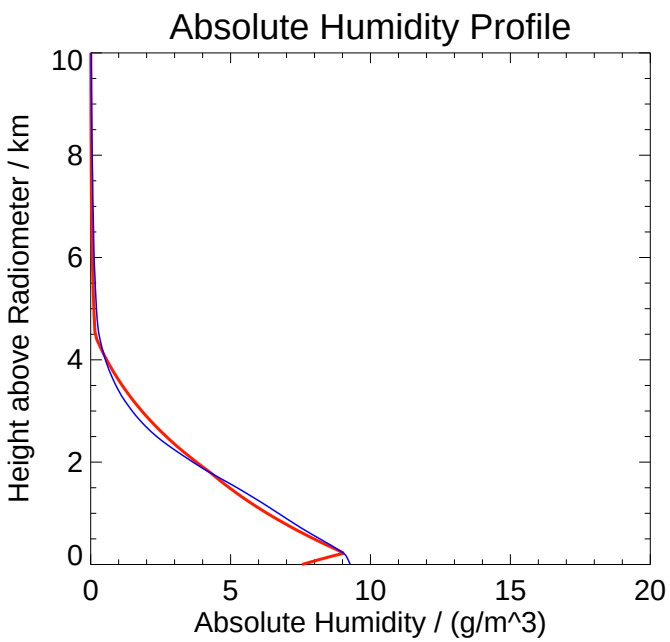
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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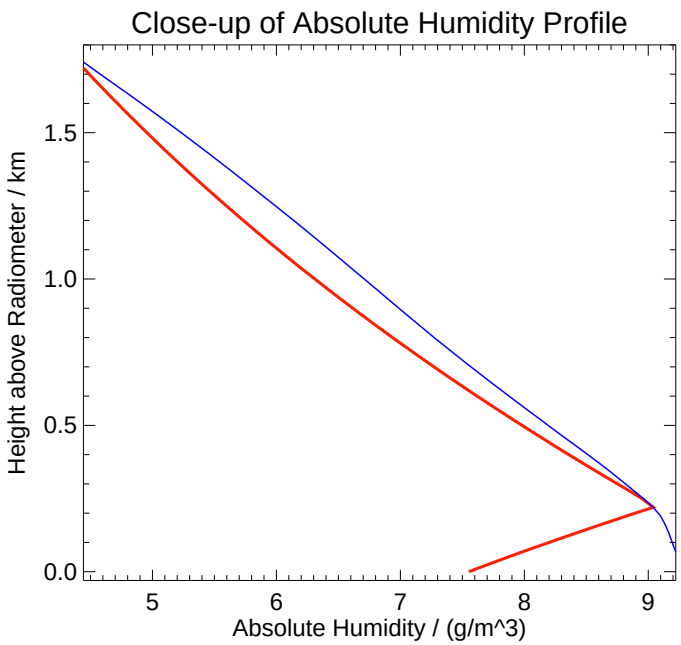
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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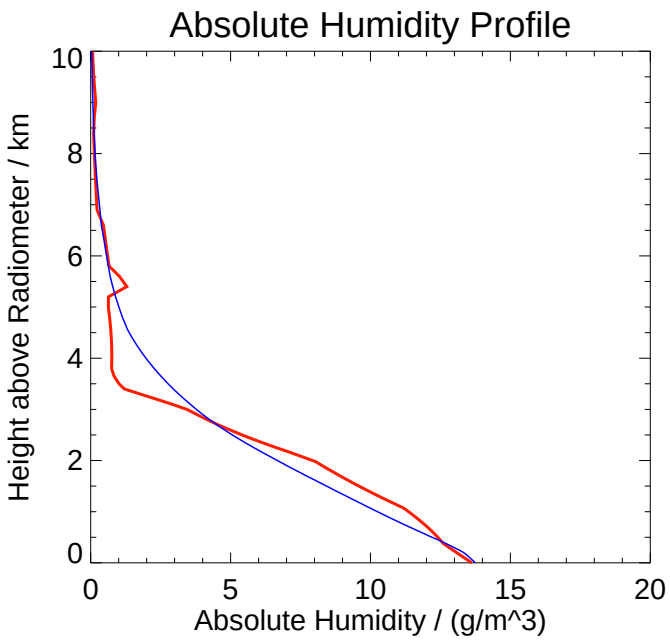
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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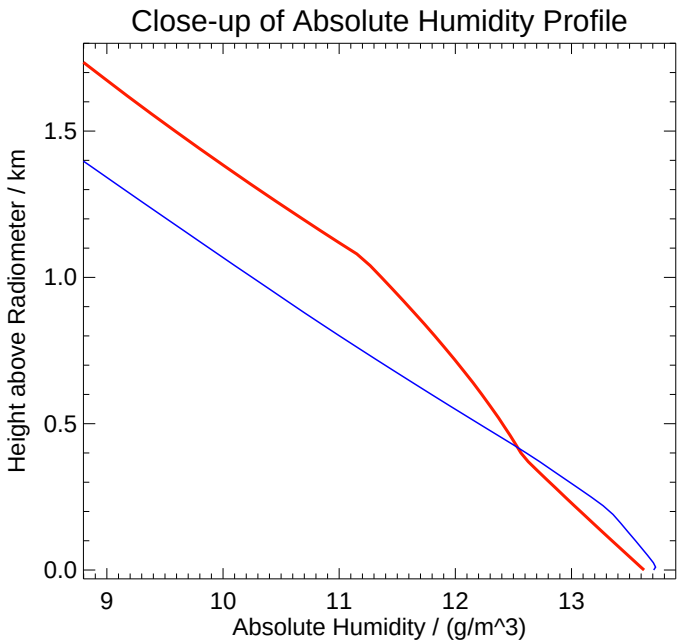
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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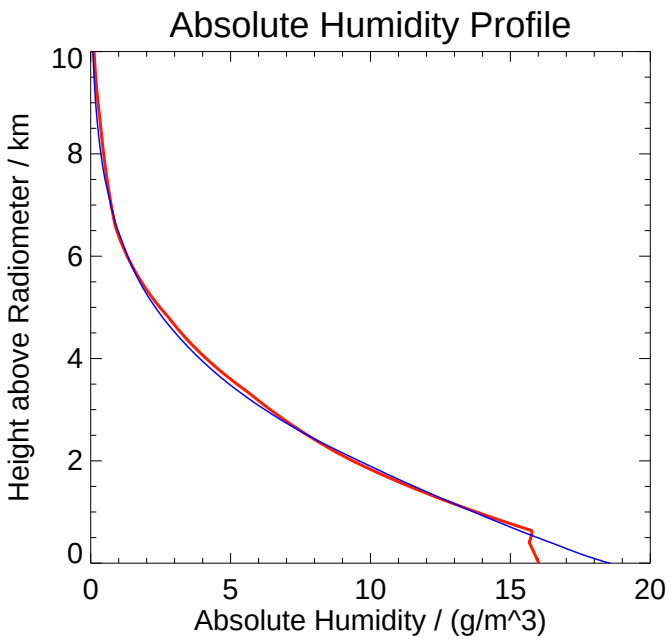
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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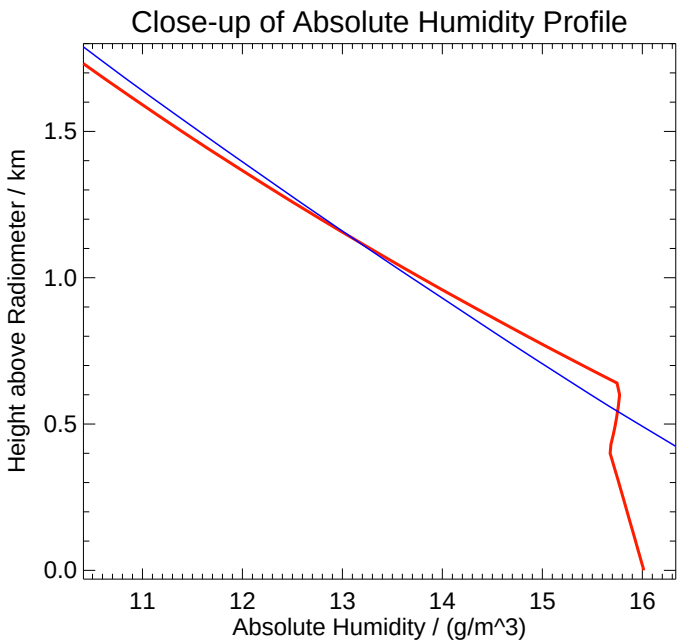
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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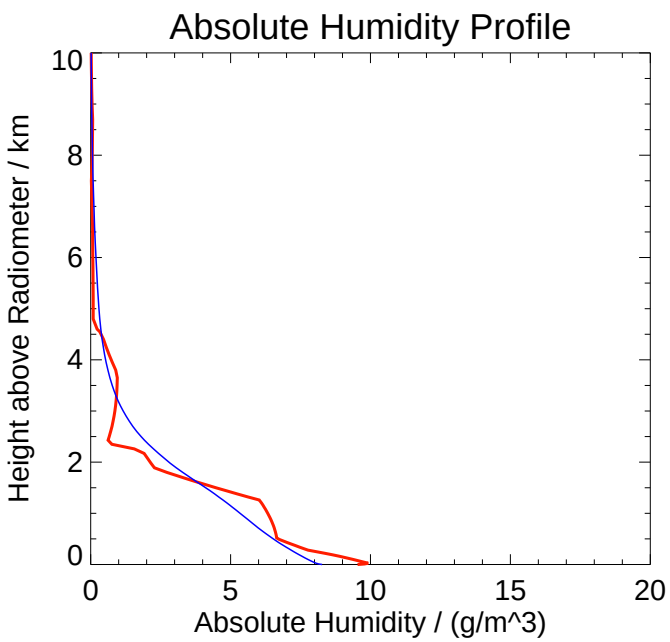
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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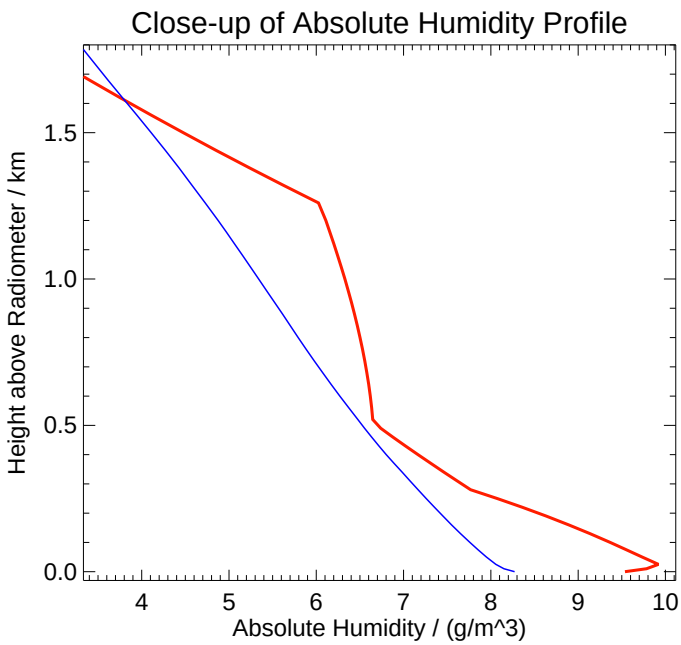
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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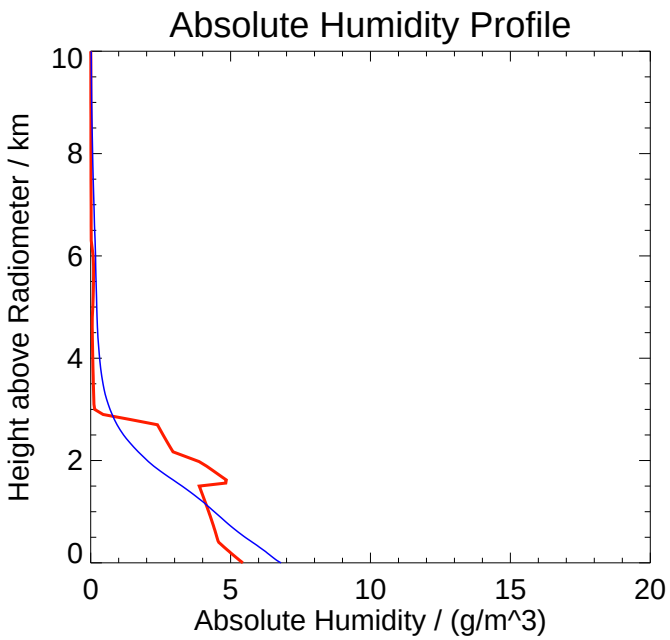
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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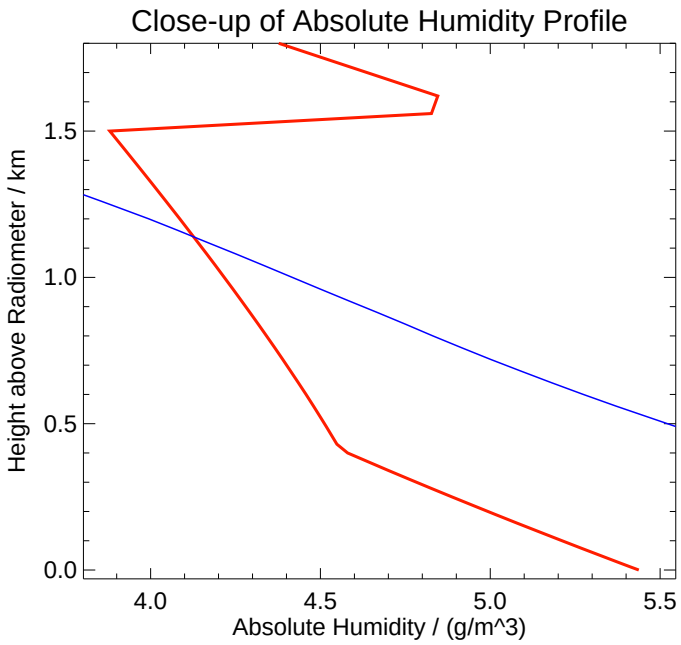
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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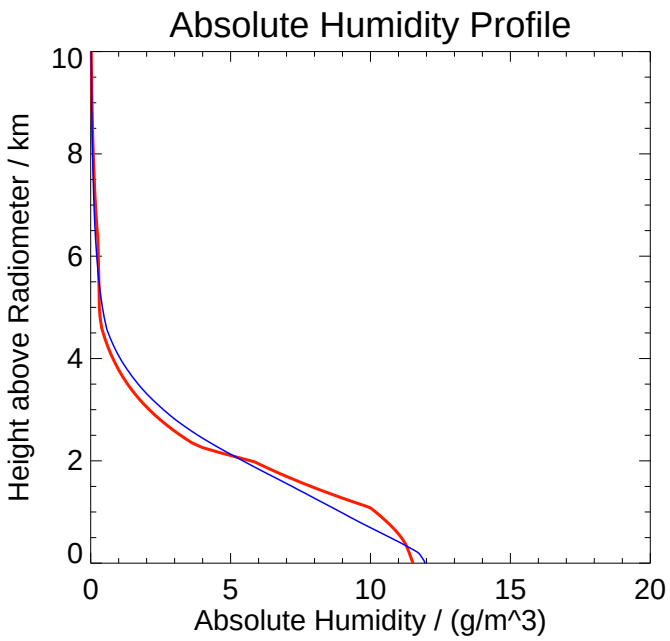
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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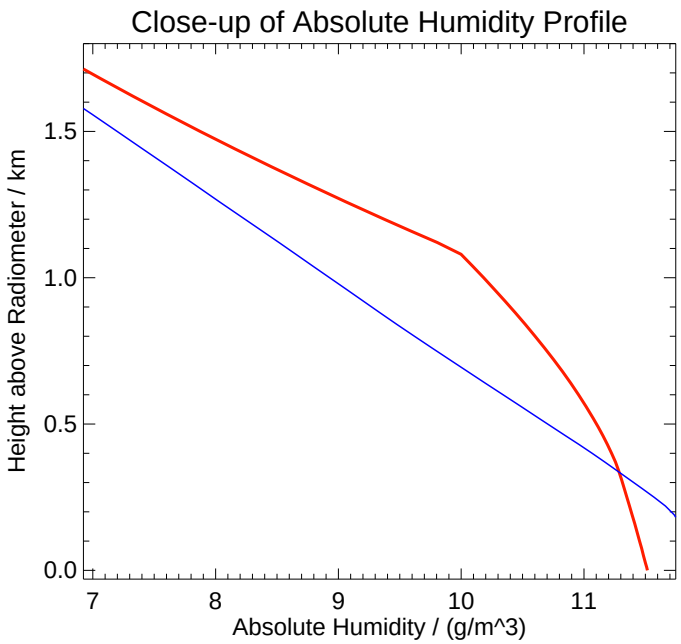
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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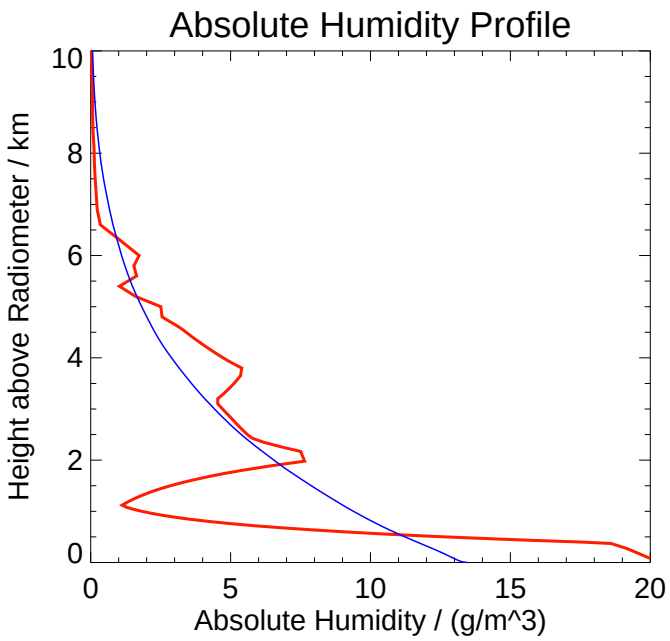
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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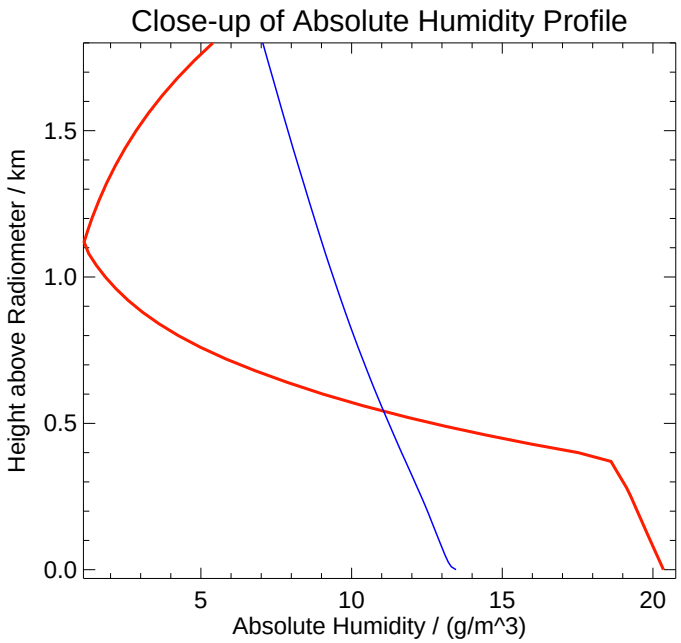
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
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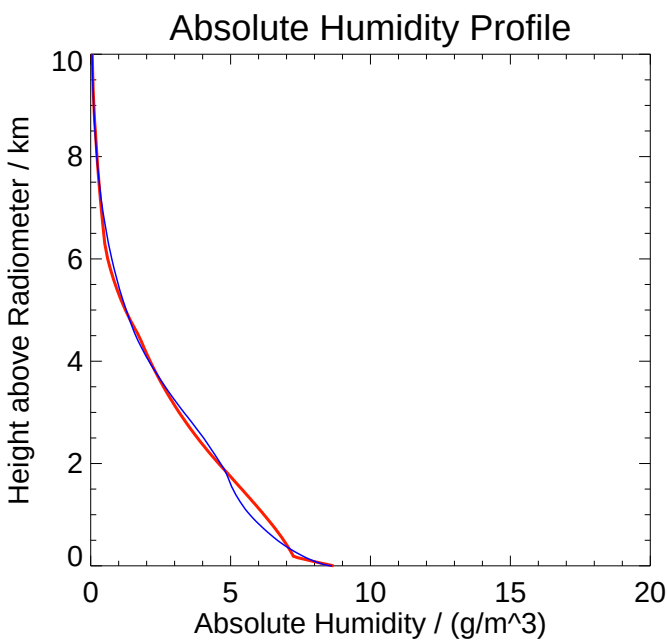
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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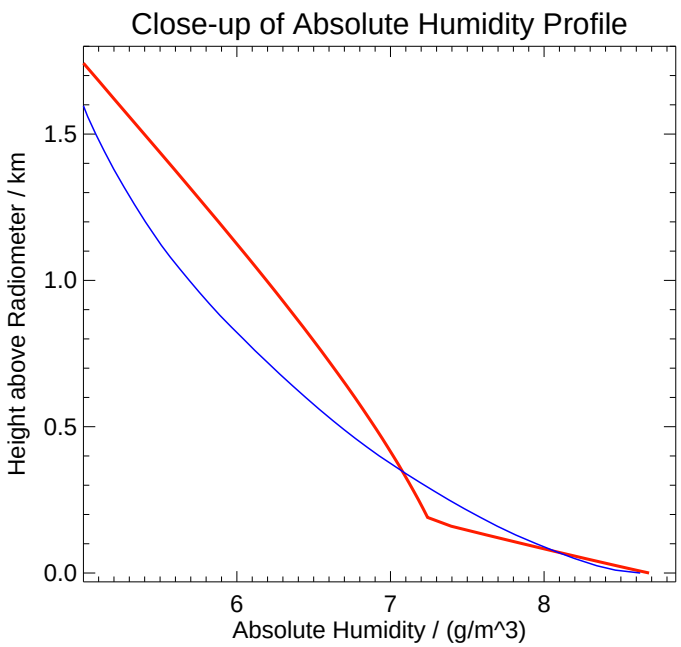
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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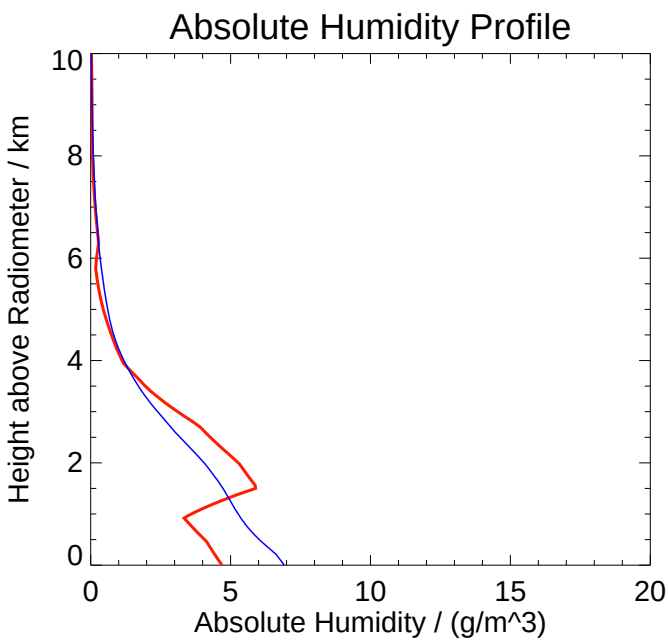
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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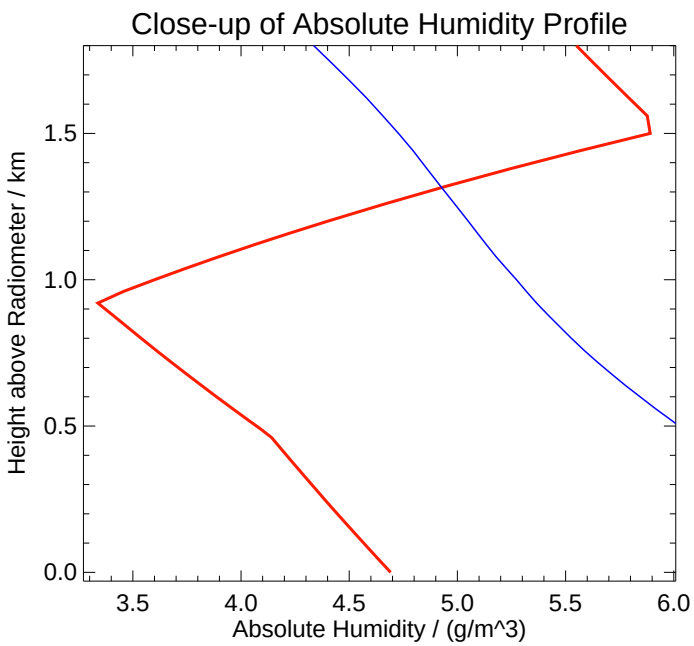
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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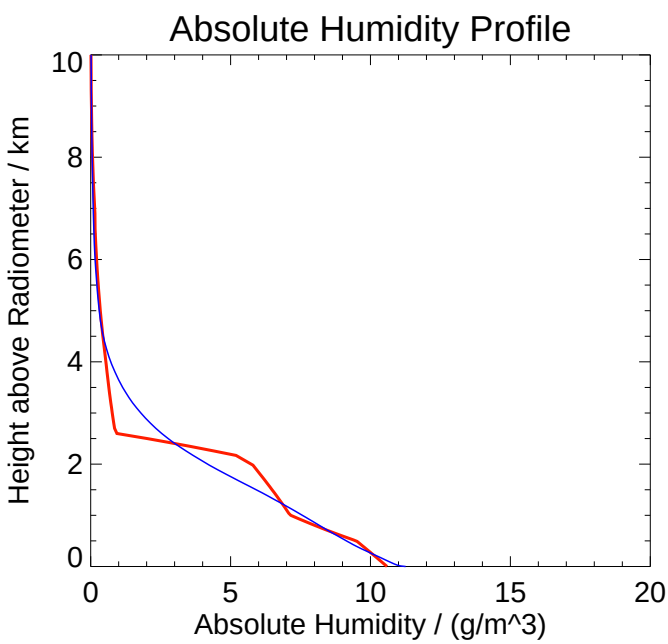
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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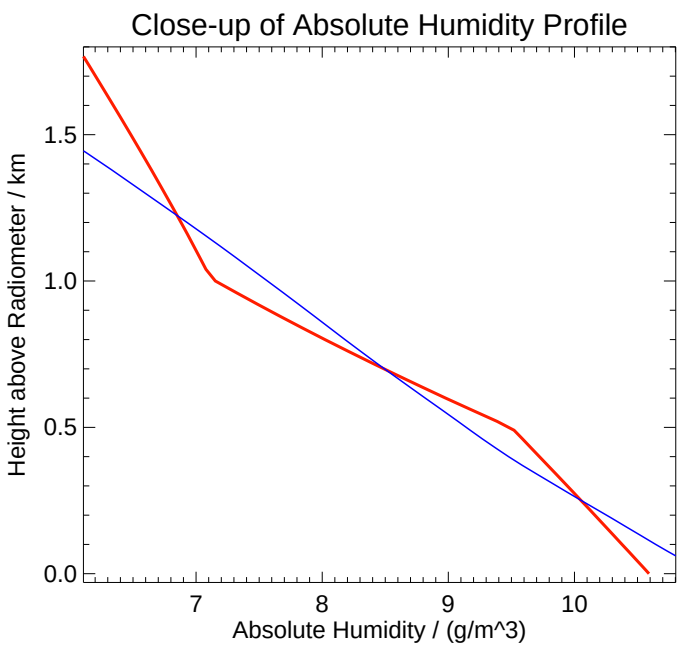
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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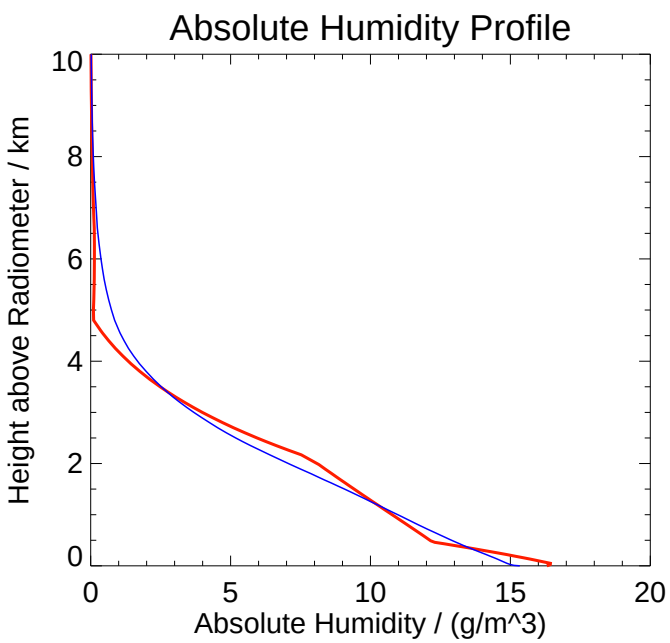
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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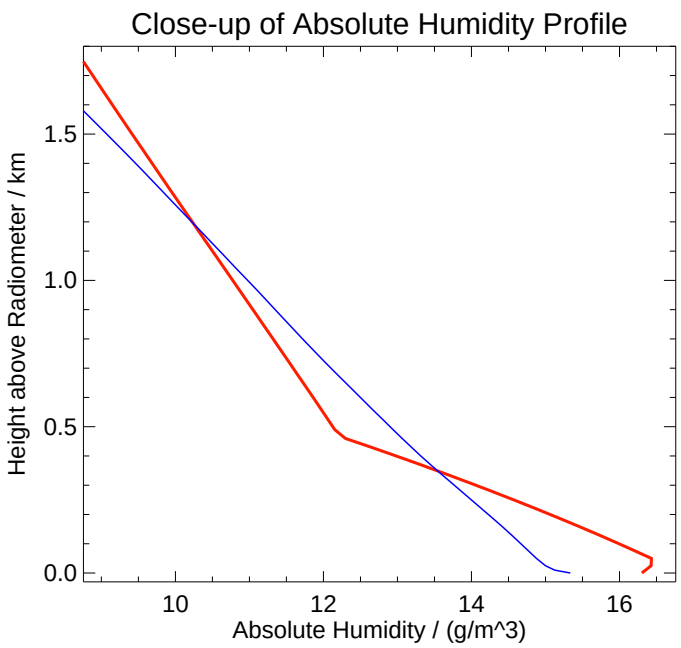
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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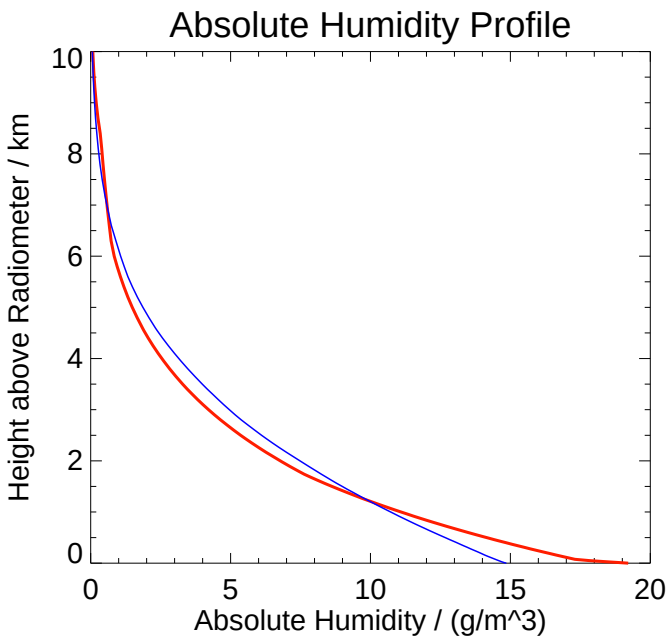
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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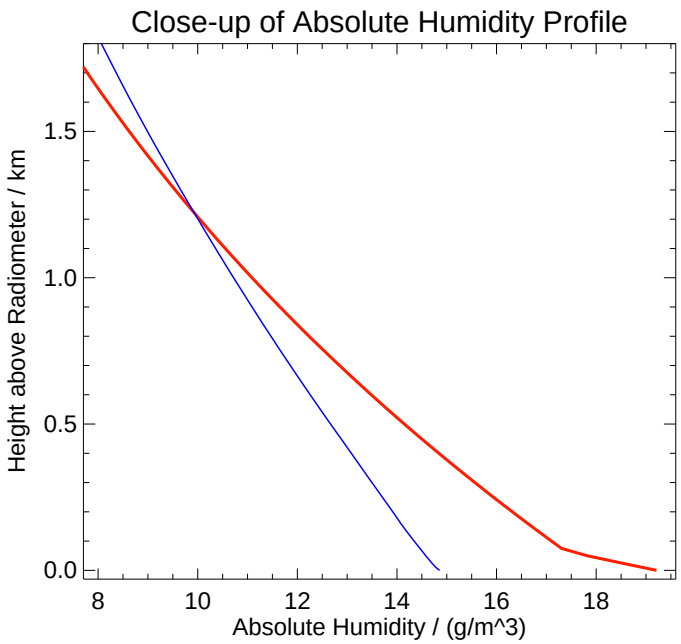
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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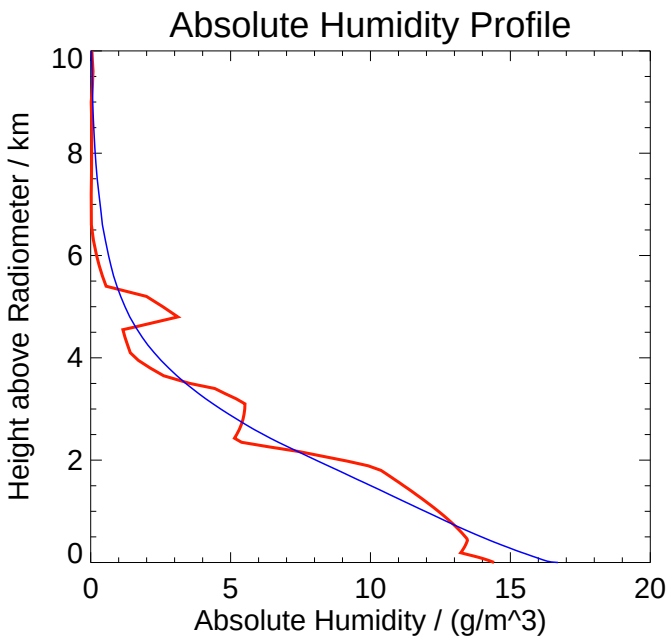
Absolute Humidity Profile
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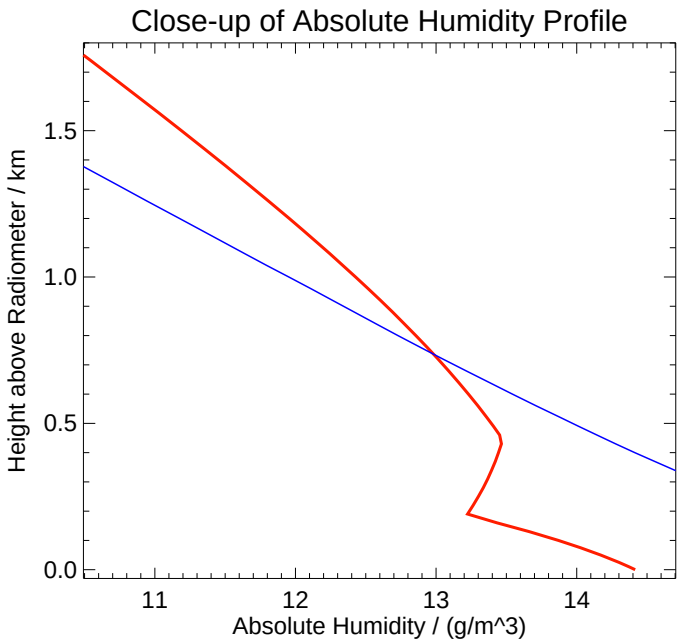
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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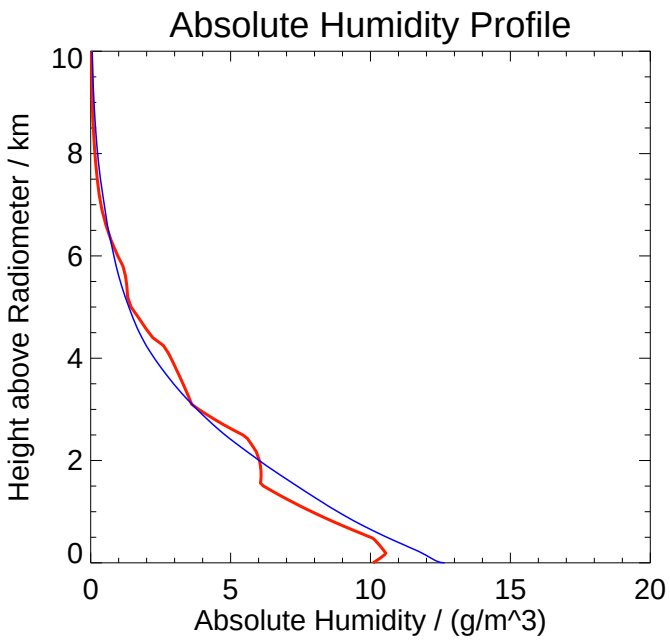
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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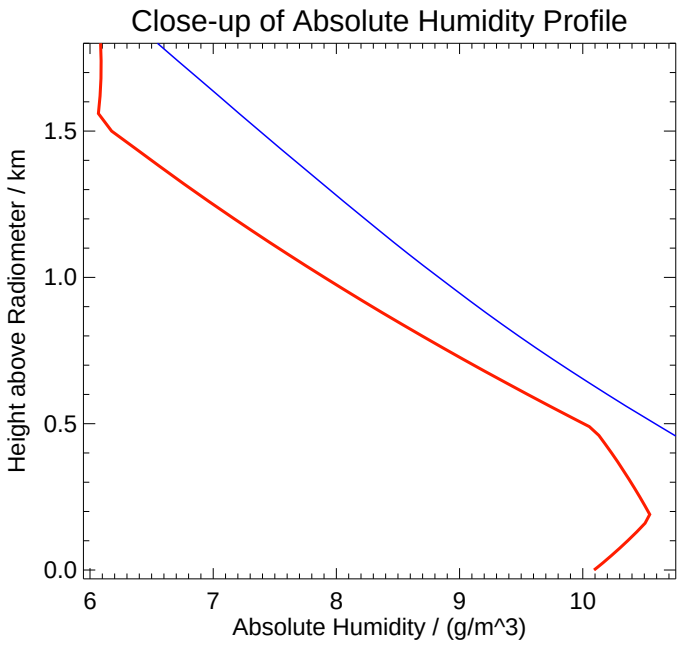
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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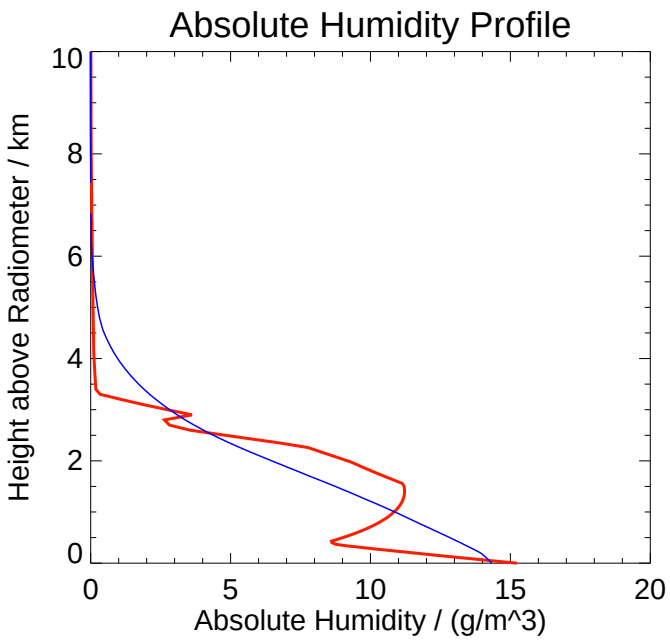
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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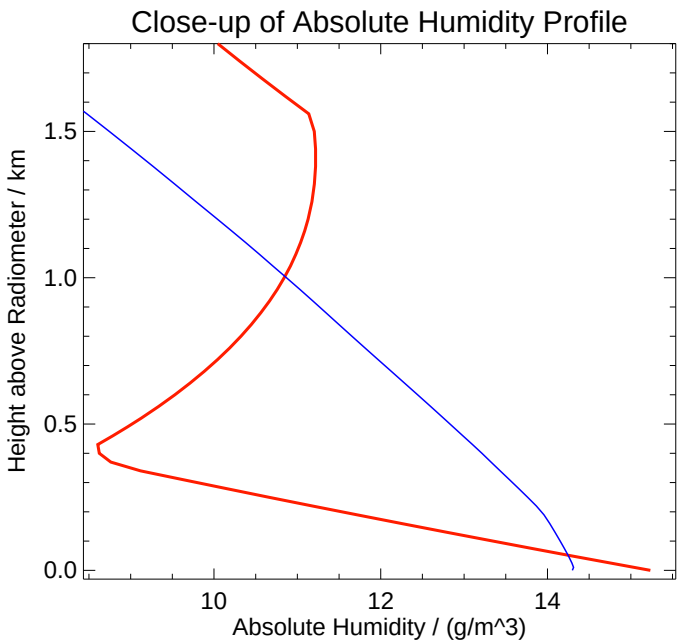
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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12
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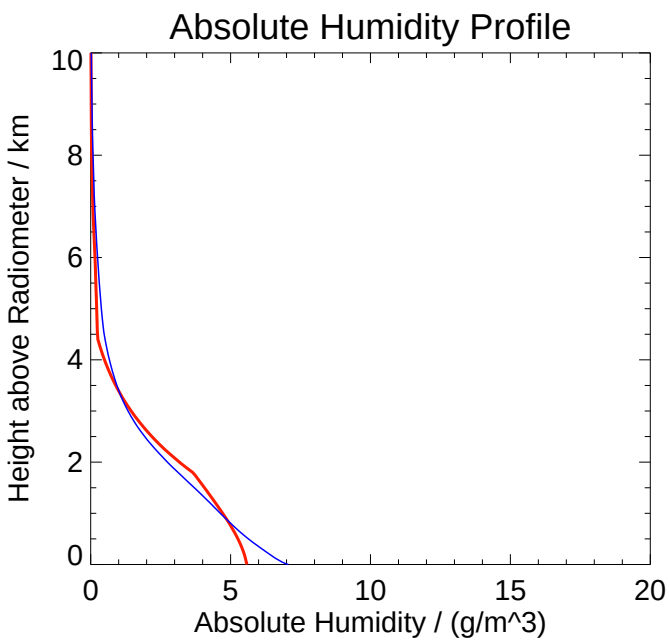
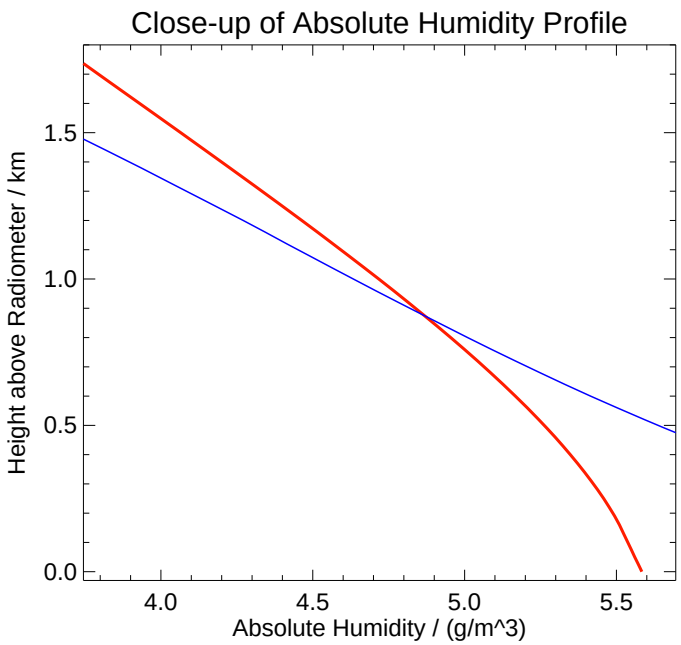
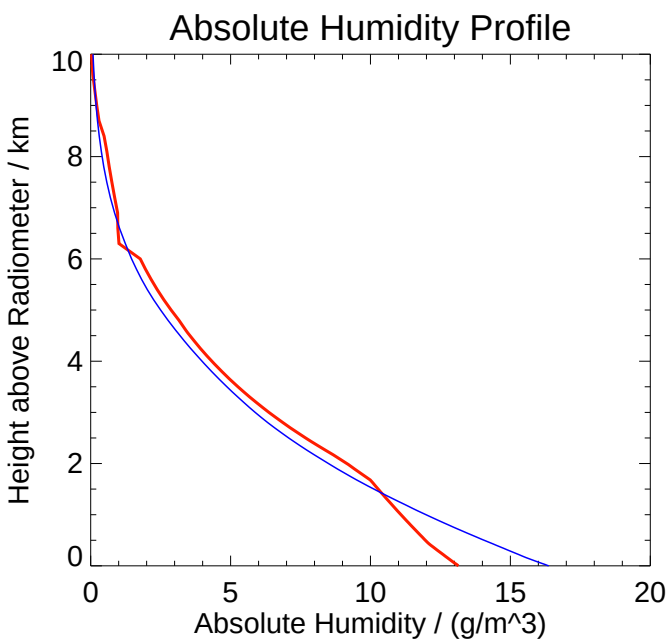
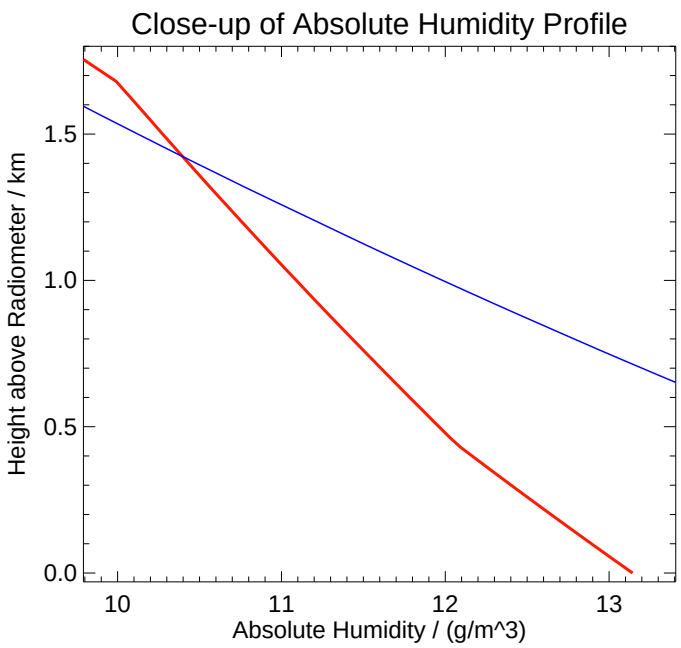
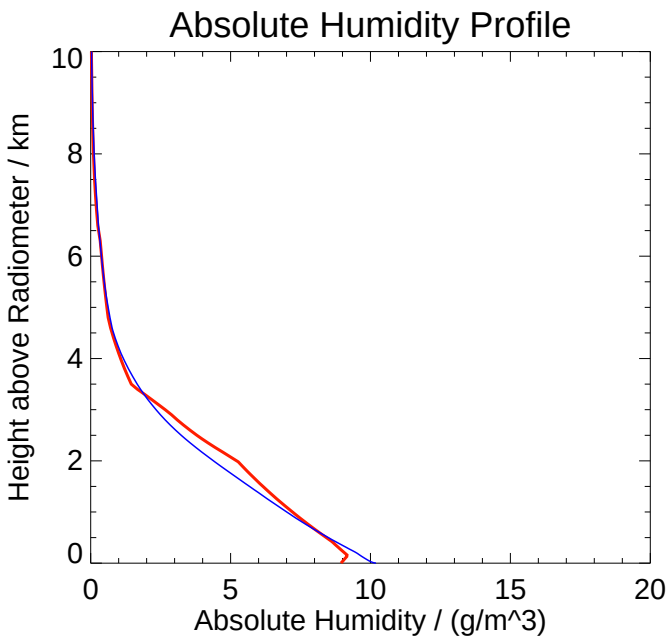
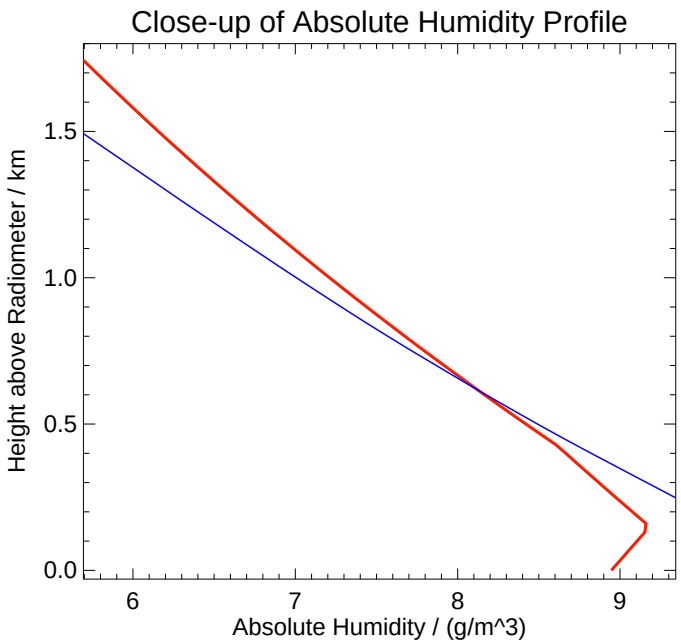

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

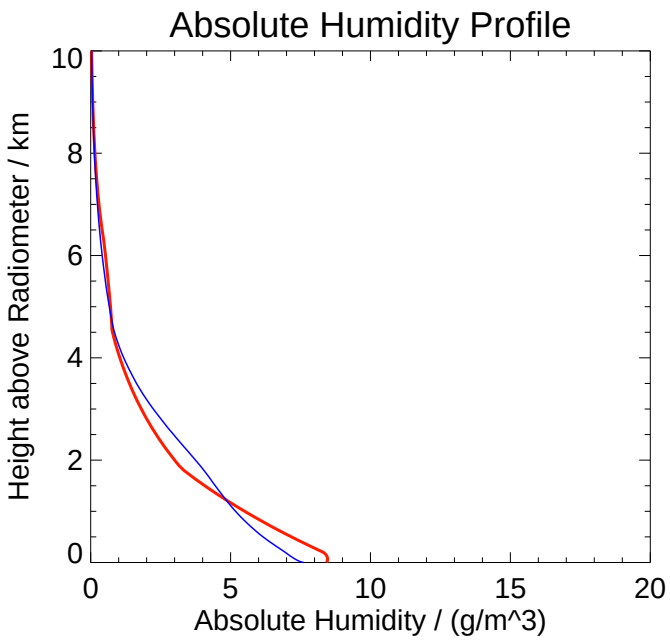

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4.0
4.5
5.0
5.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
11
12
13


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
7
8
9


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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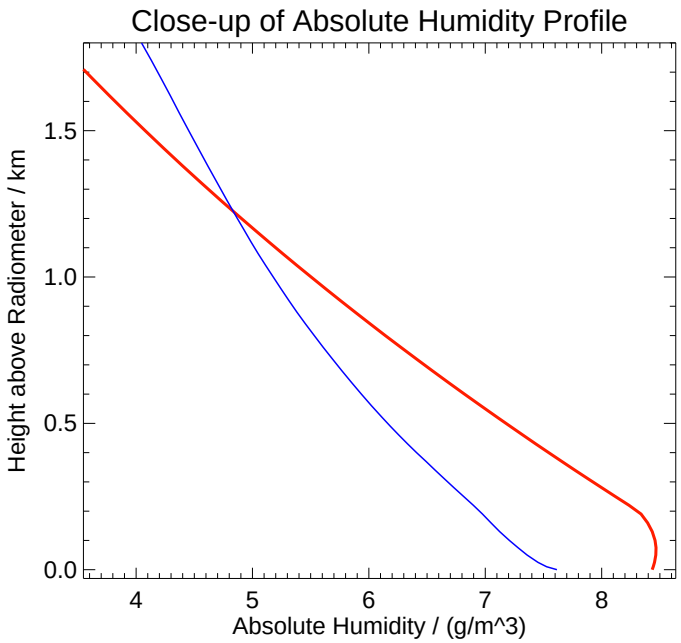
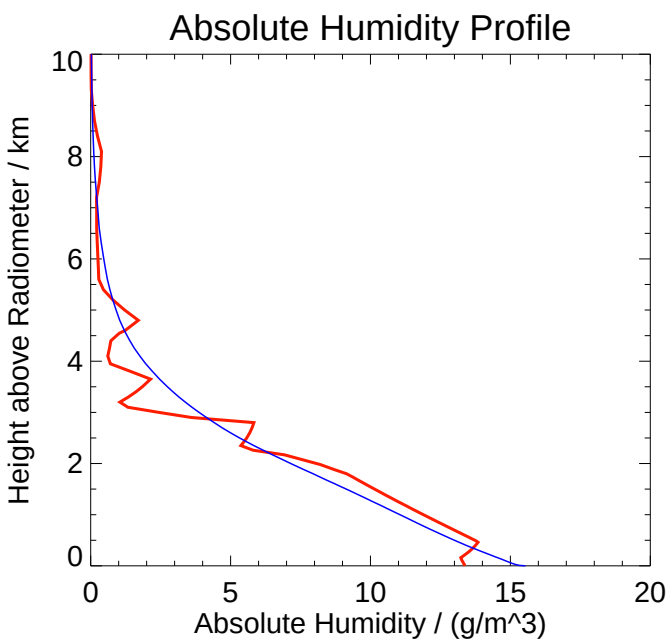

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4
5
6
7
8


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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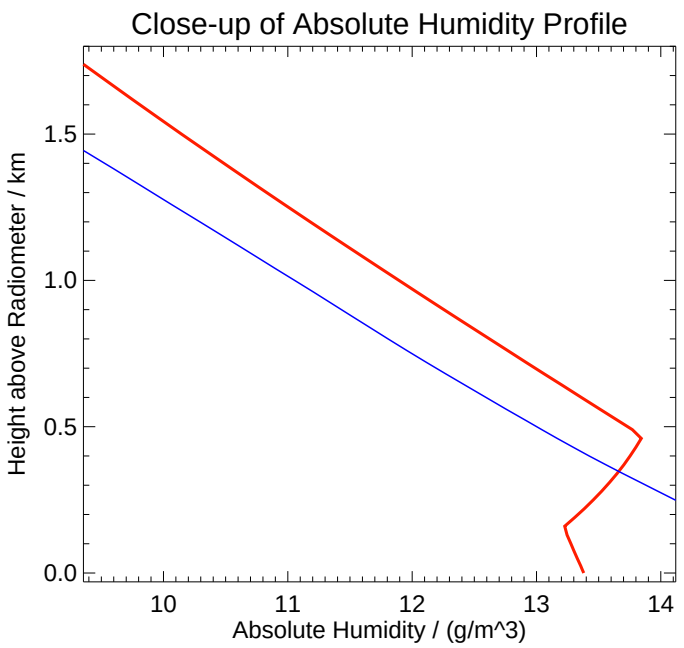
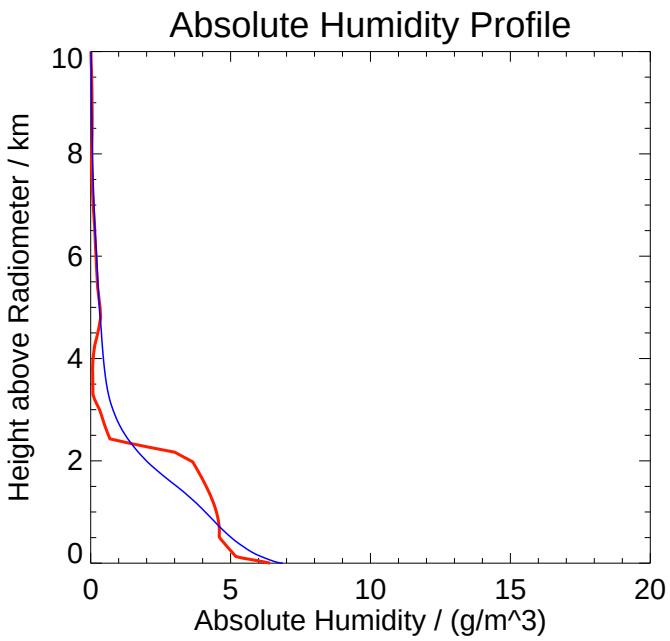
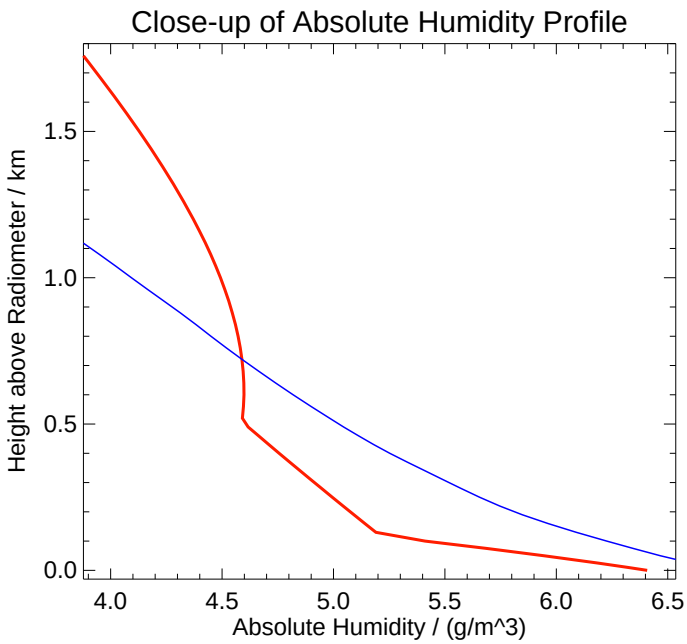
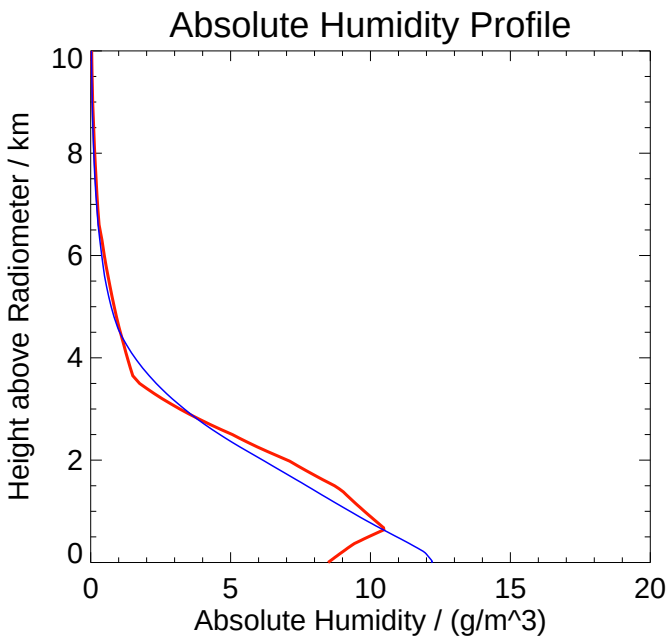
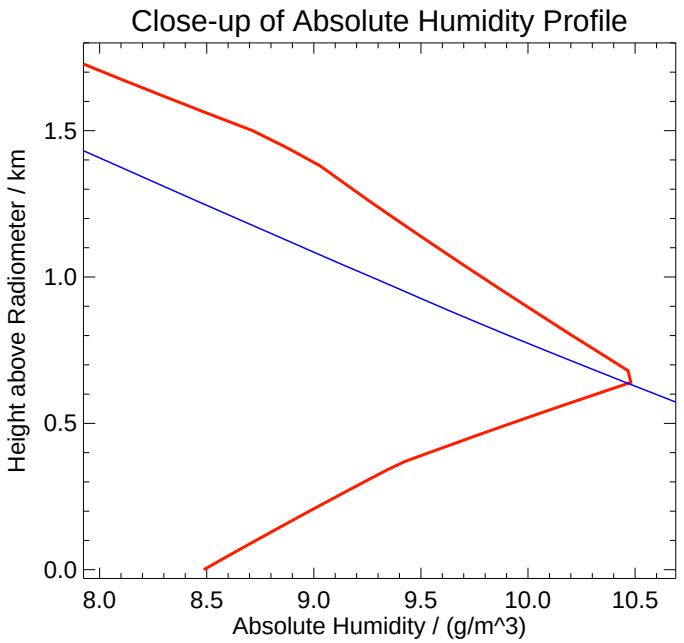
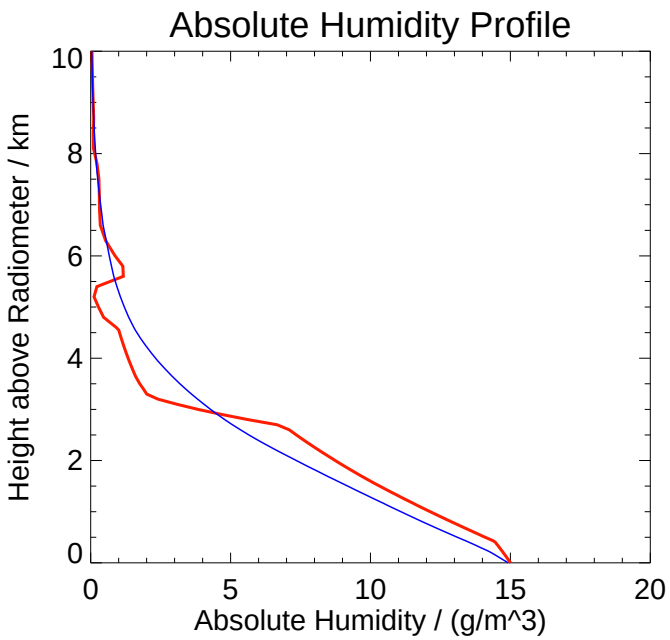

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
11
12
13
14

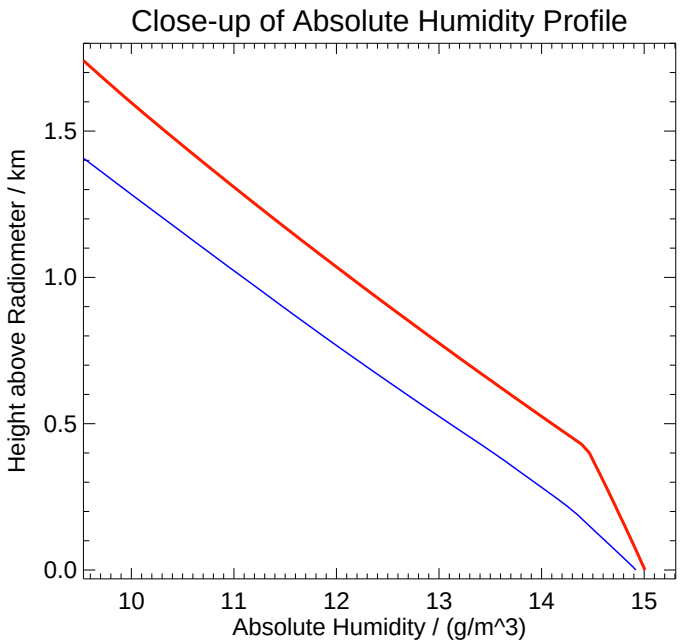

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

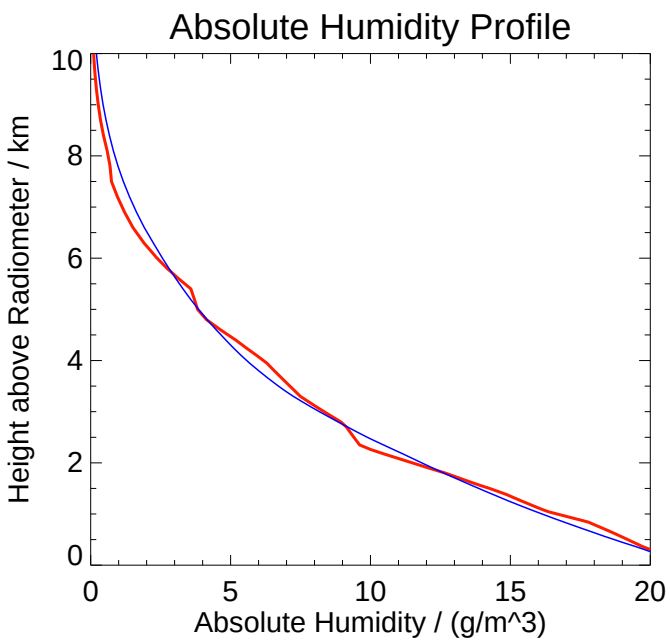

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4.0
4.5
5.0
5.5
6.0
6.5

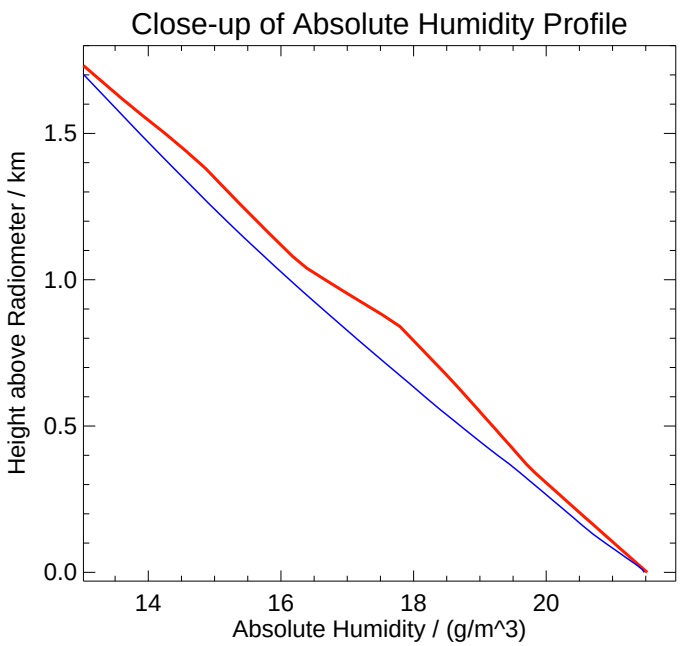

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

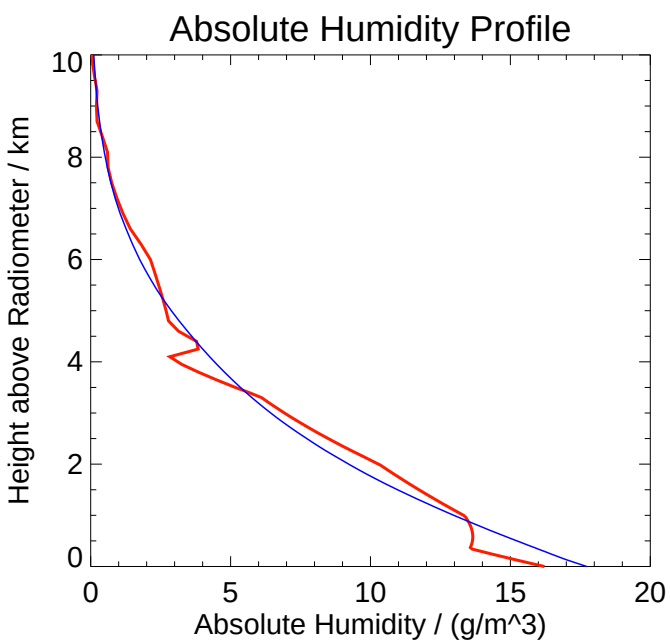

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8.0
8.5
9.0
9.5
10.0
10.5

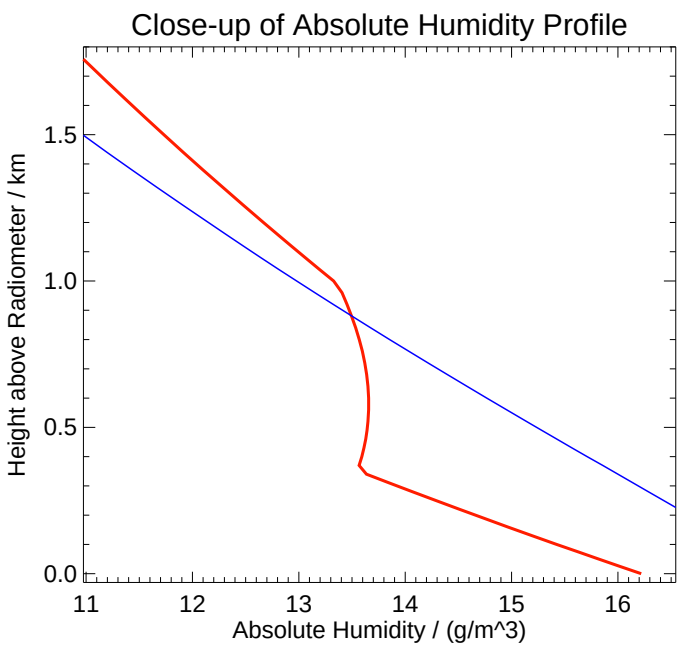

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

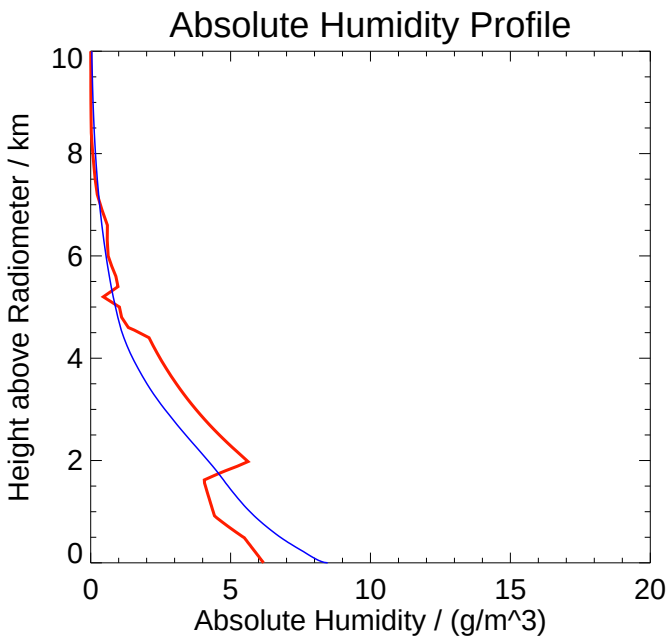

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
11
12
13
14
15

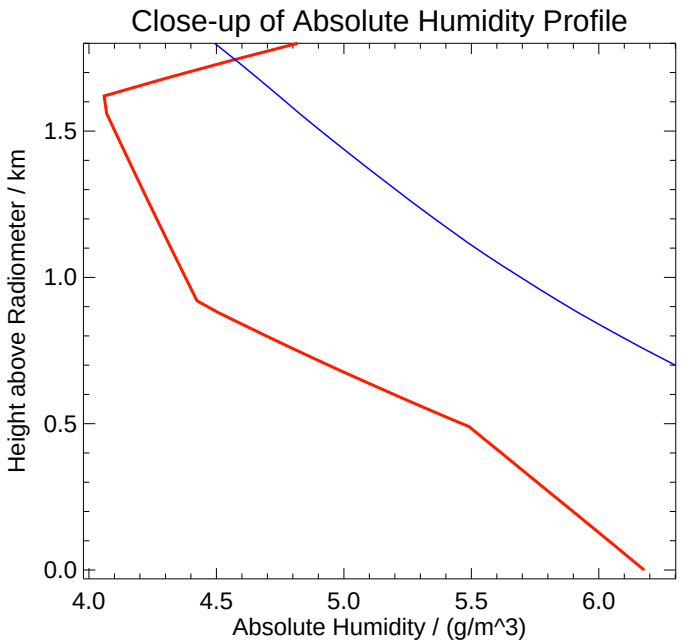

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

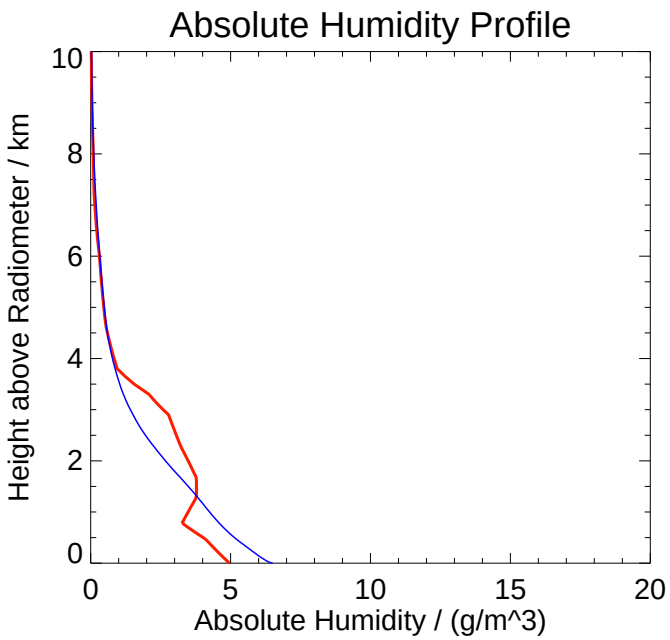

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
14
16
18
20

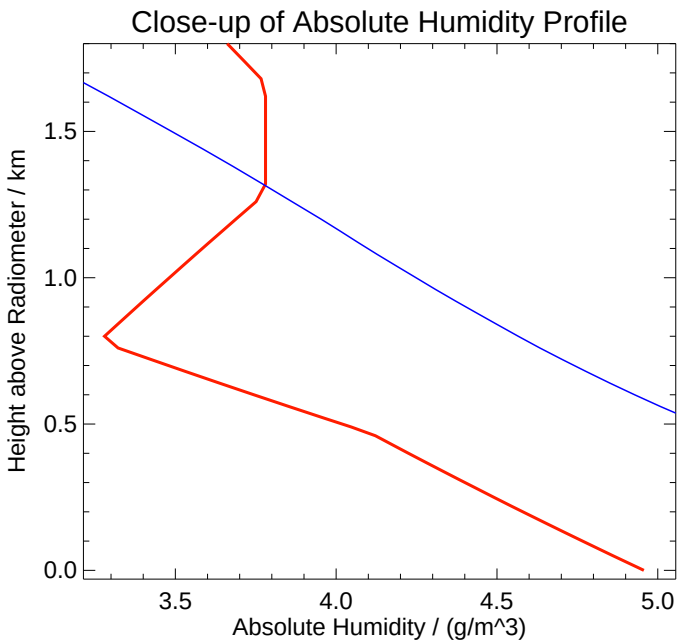

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

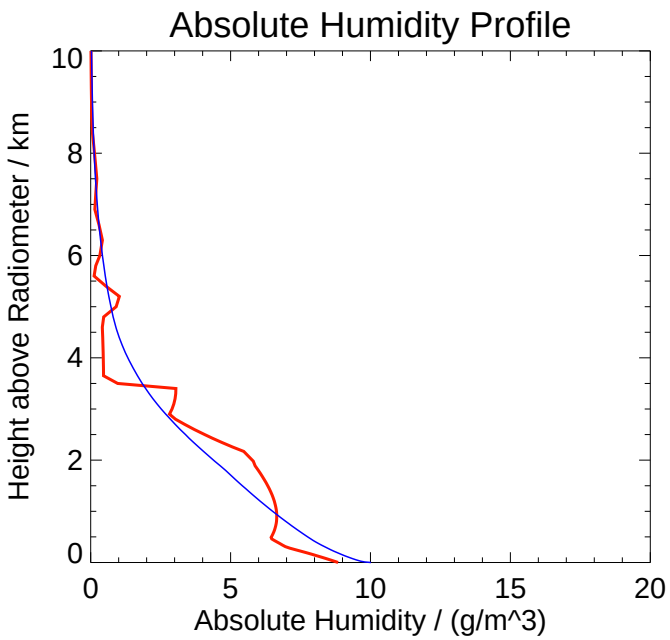

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
11
12
13
14
15
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4.0
4.5
5.0
5.5
6.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
3.5
4.0
4.5
5.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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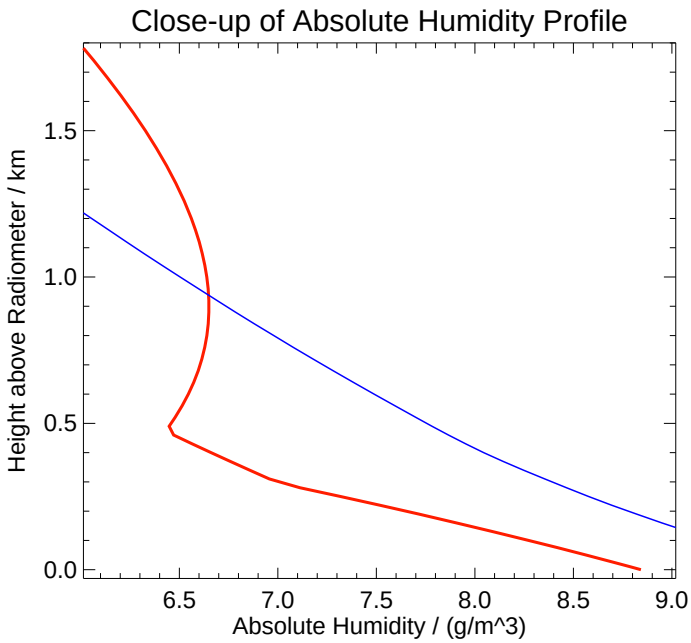
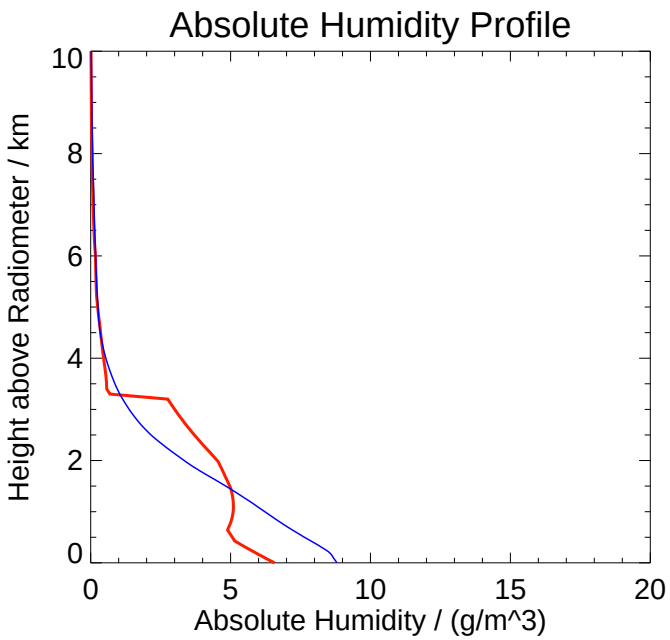
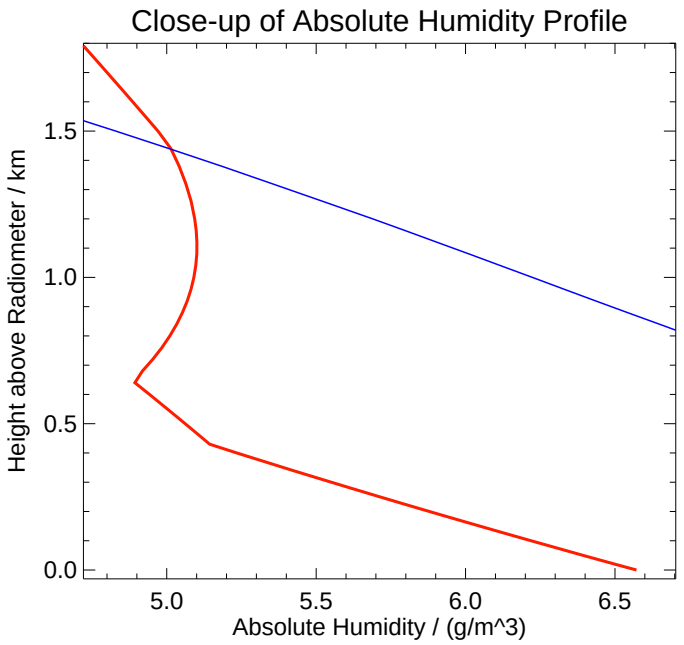
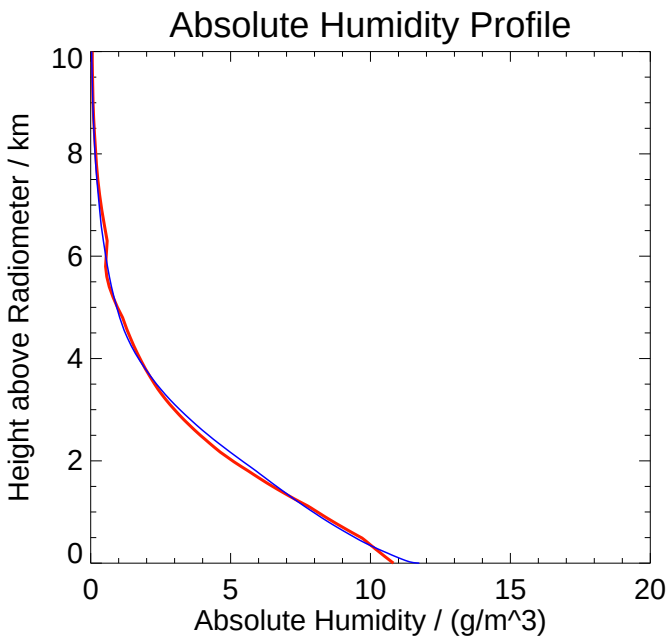
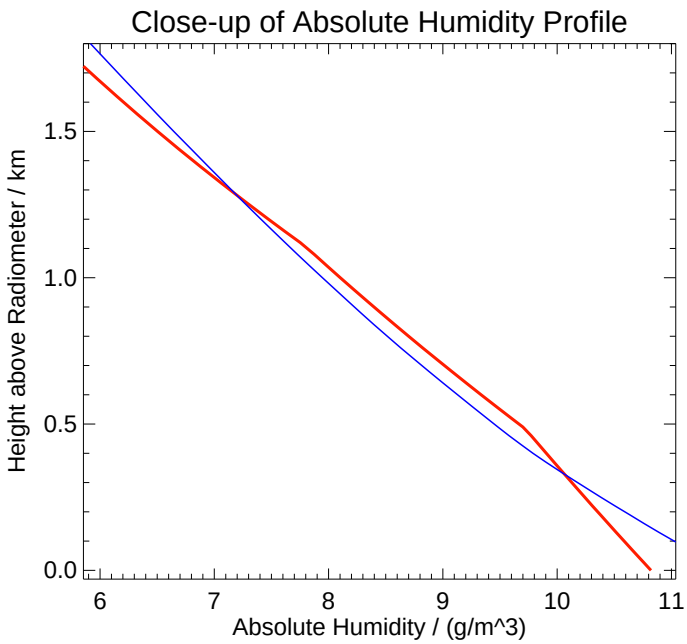
15
20

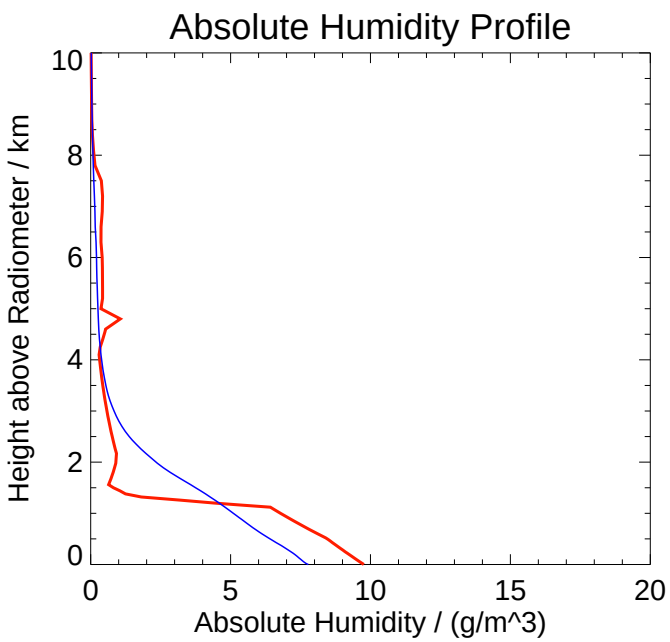

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6.5
7.0
7.5
8.0
8.5
9.0

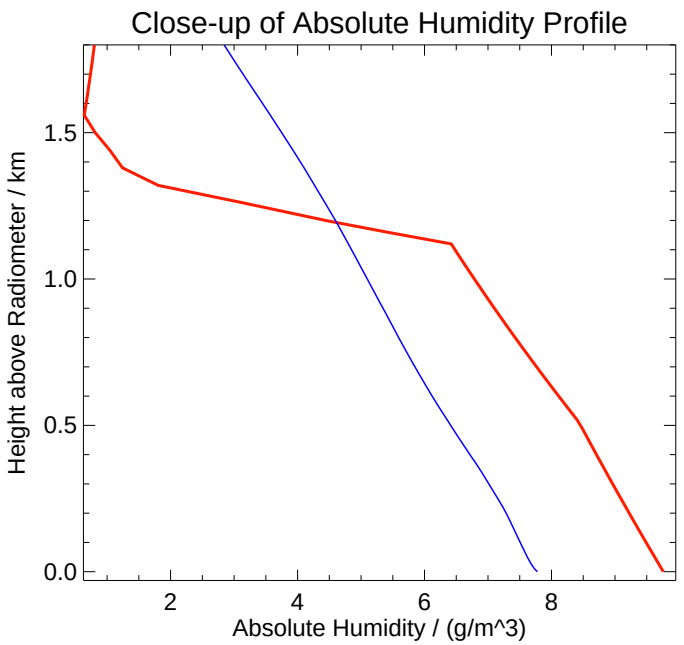

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

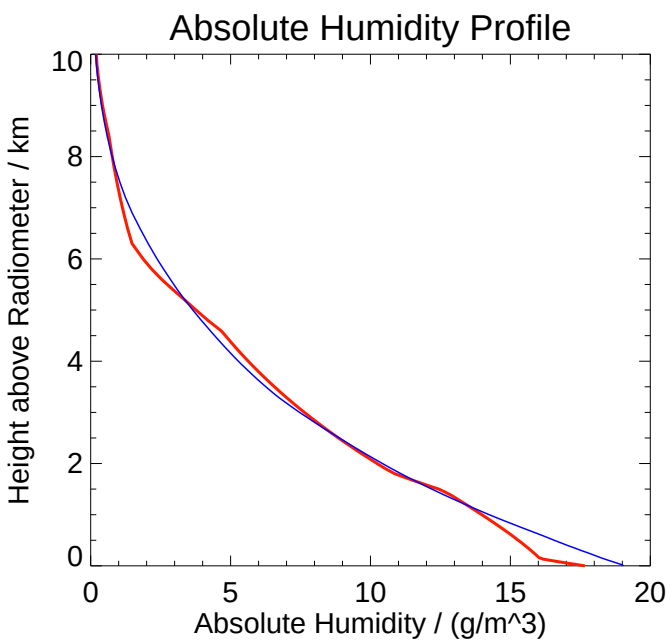

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
5.0
5.5
6.0
6.5

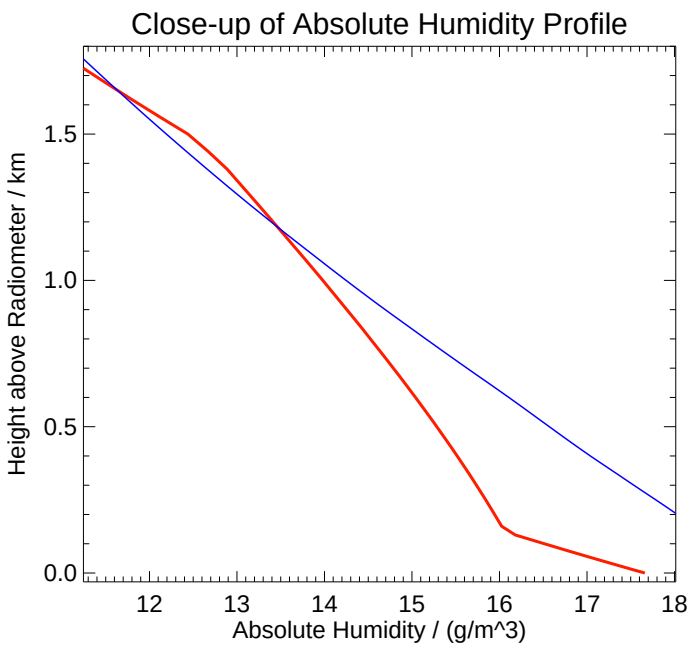

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

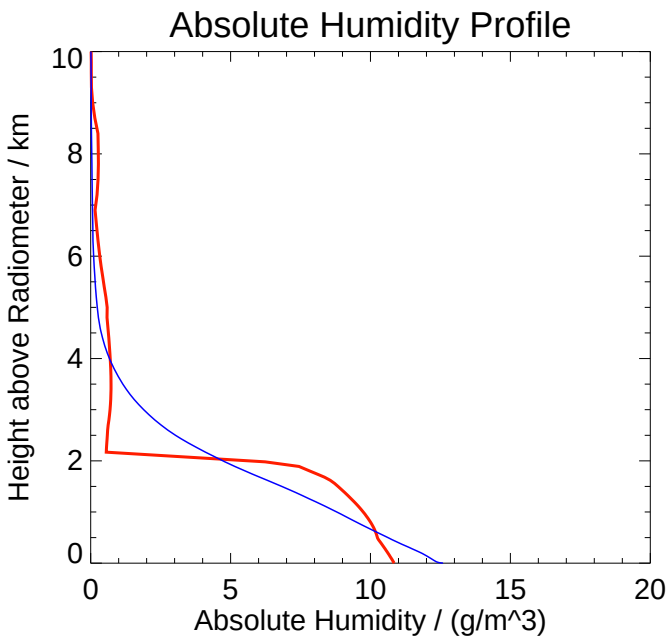

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
7
8
9
10
11

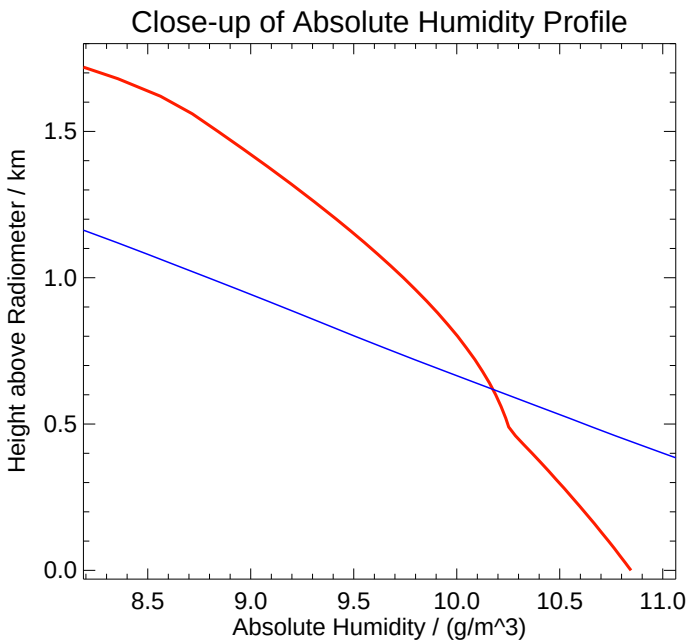

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

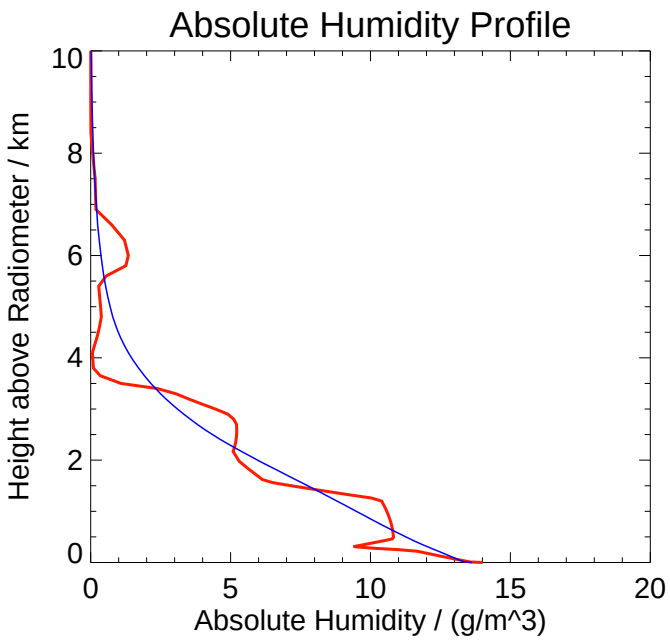

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2
4
6
8

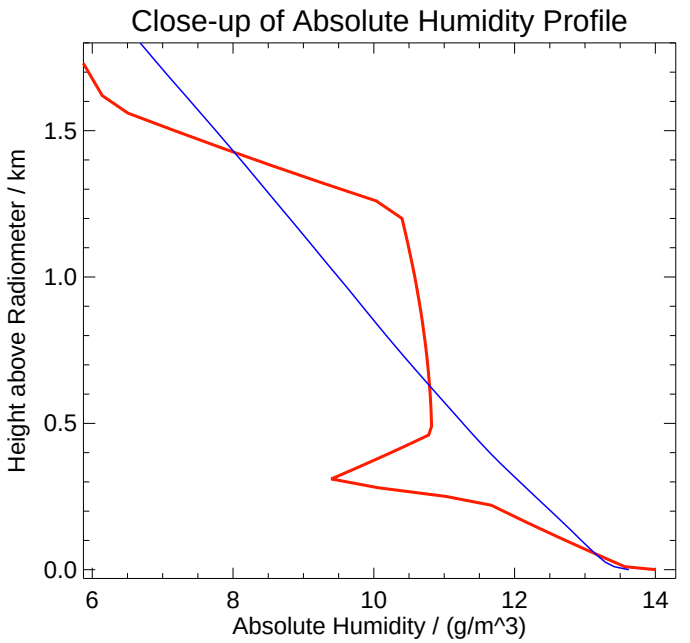

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

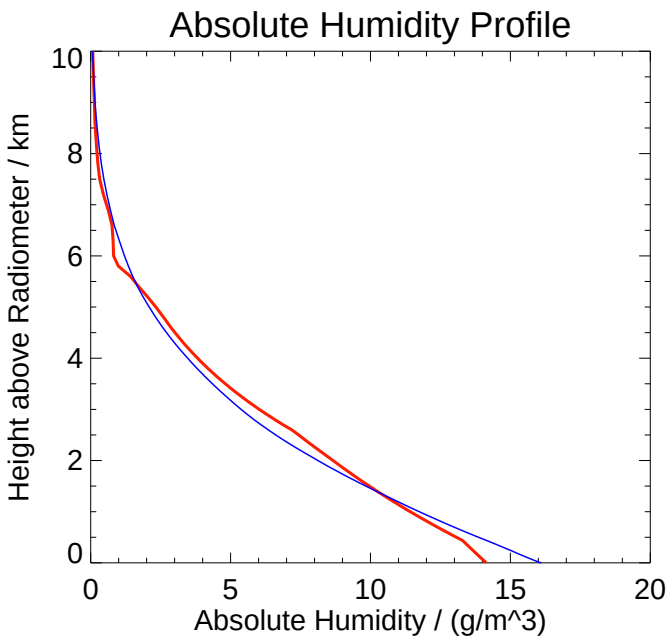

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
13
14
15
16
17
18

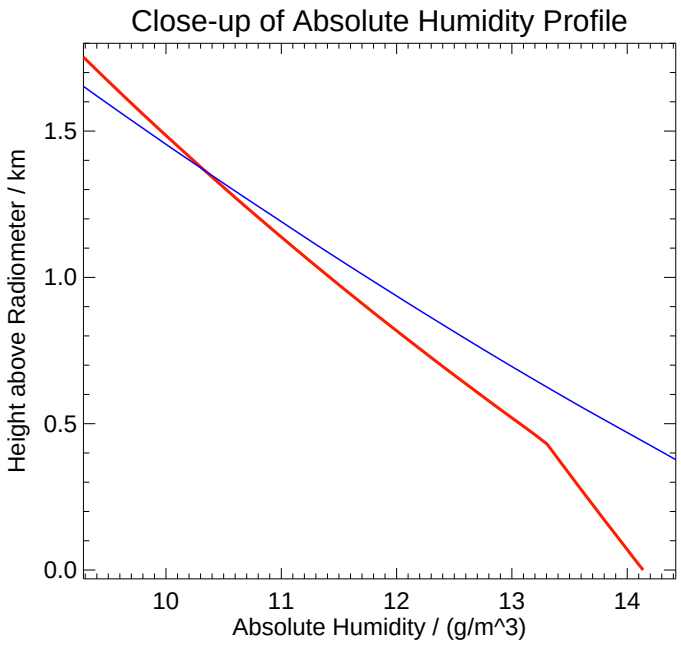

Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20

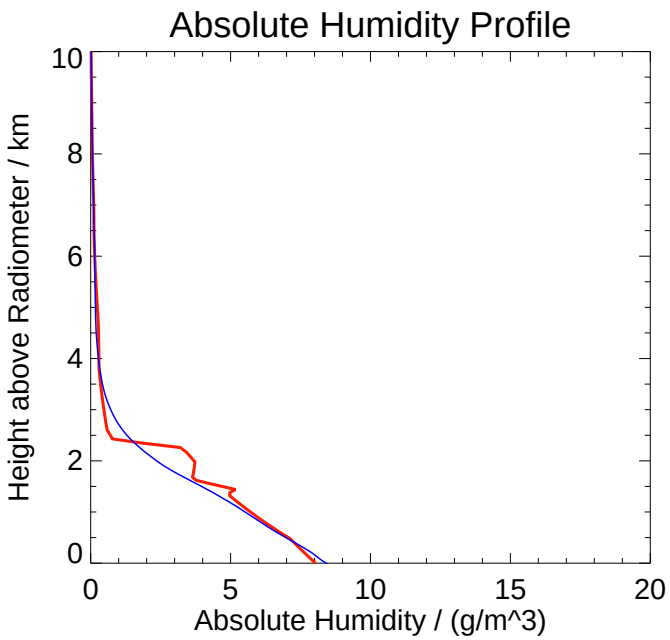

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8.5
9.0
9.5
10.0
10.5
11.0


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6
8
10
12
14


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
11
12
13
14


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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0
5
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15
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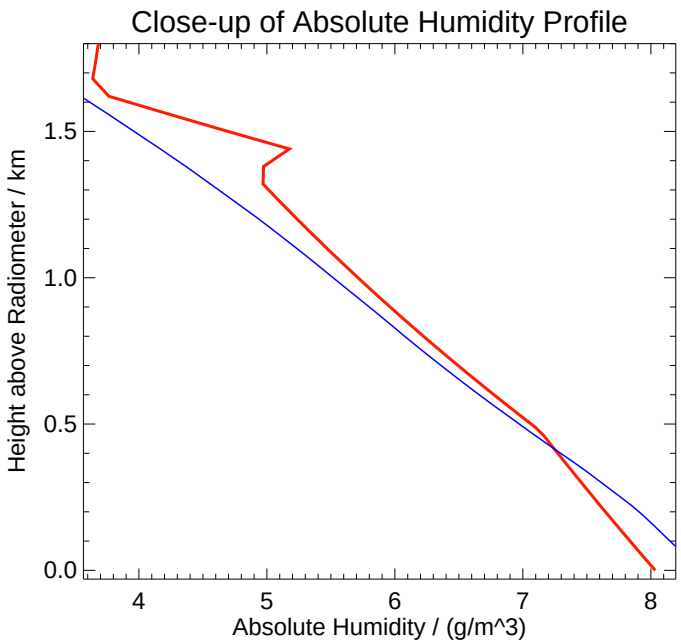
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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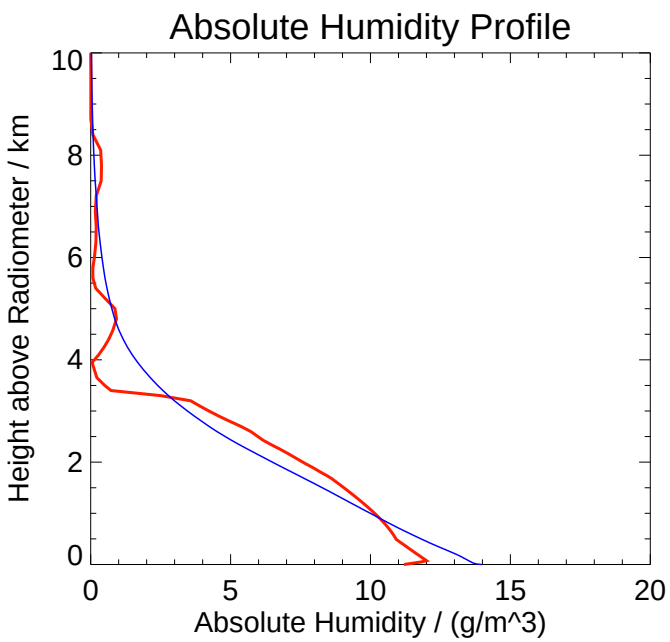
7
8


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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15
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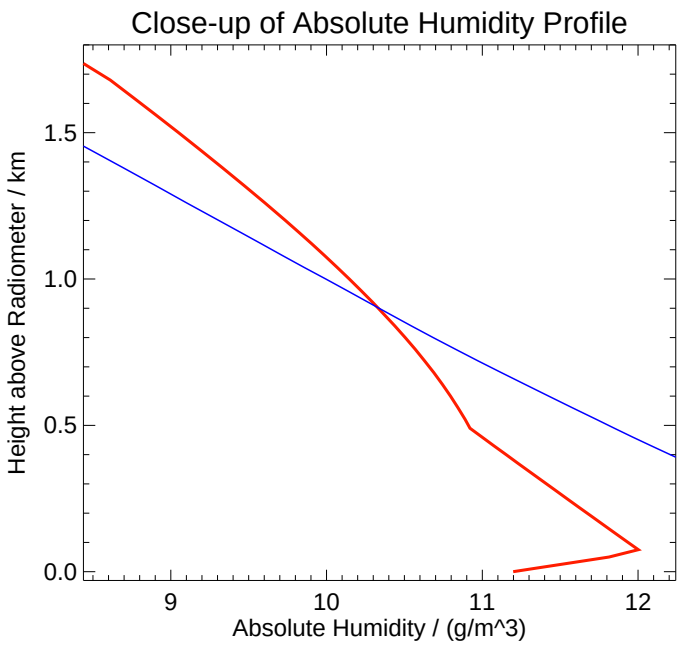
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
9
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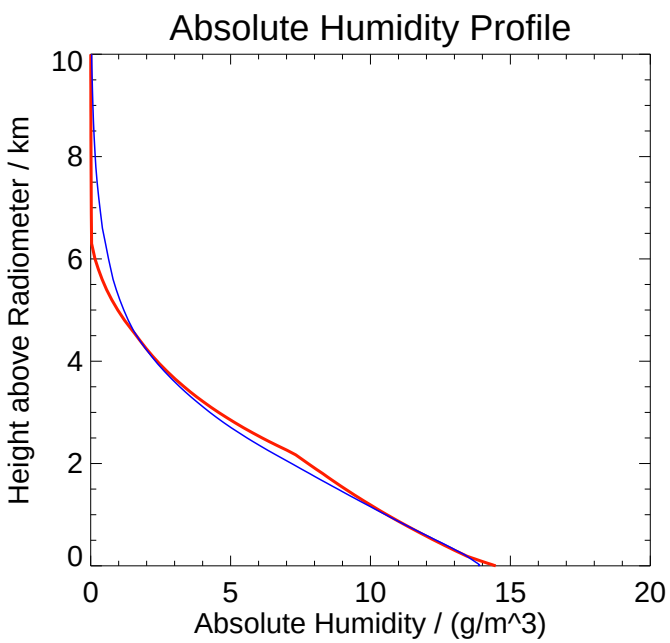
11
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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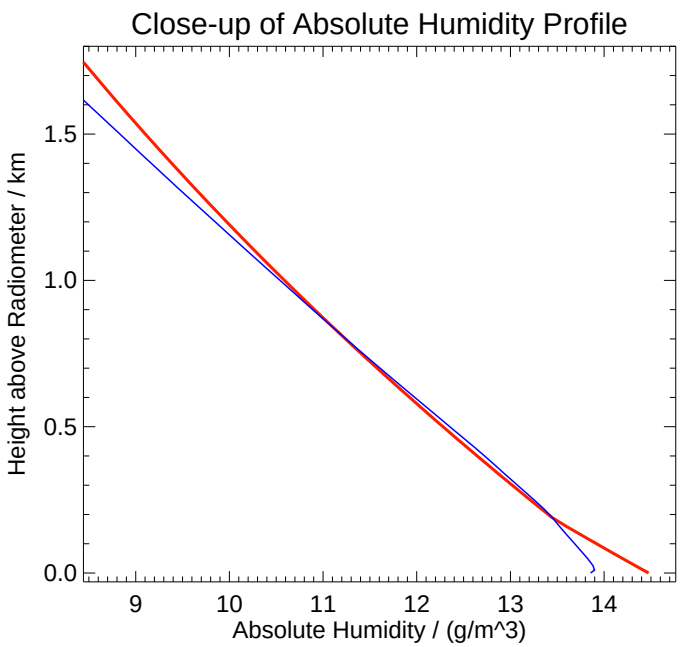
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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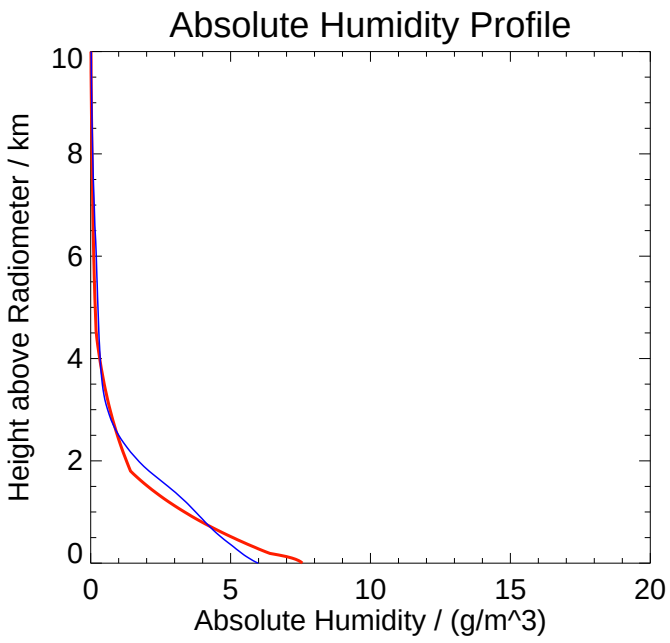
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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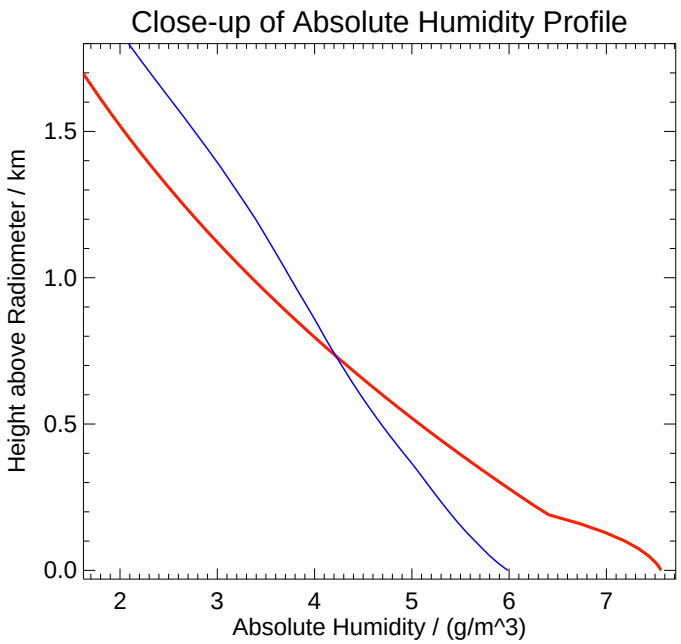
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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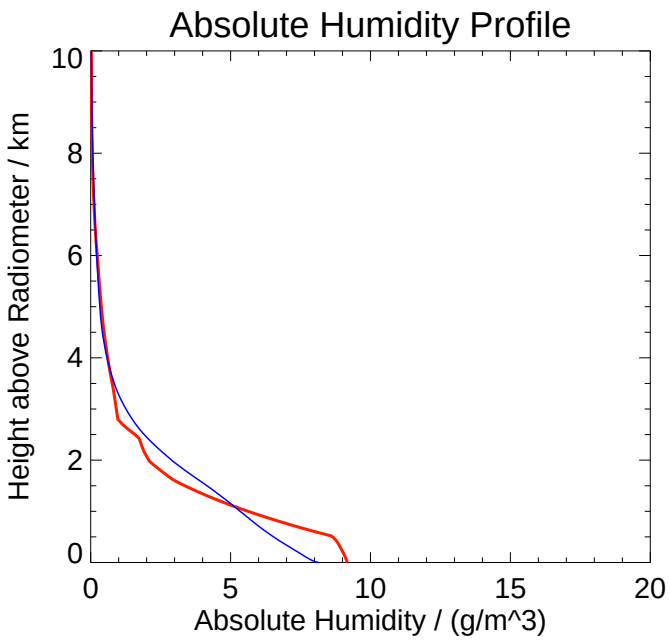
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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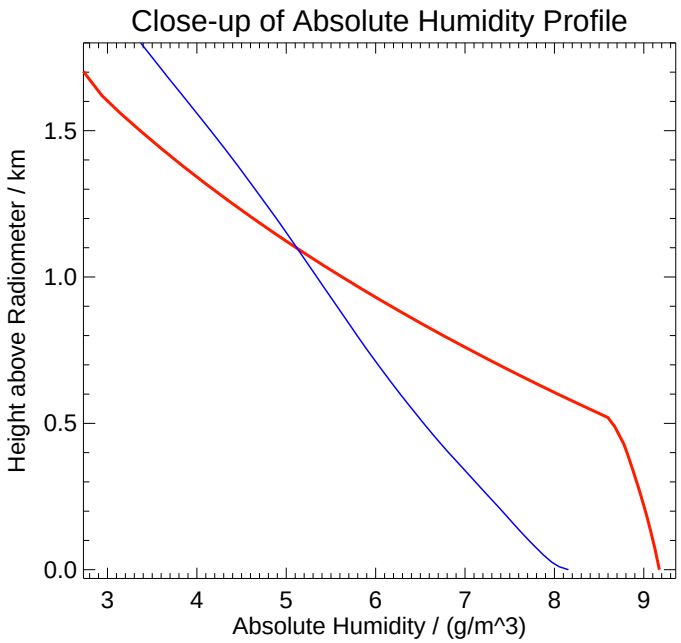
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
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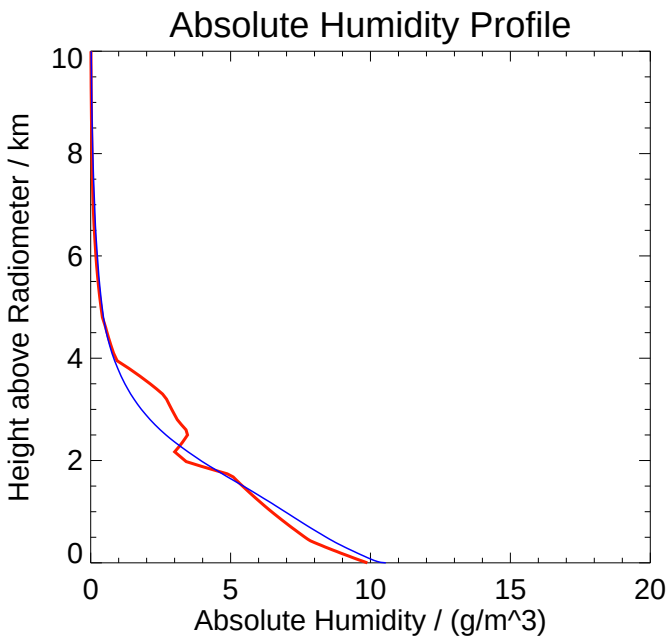
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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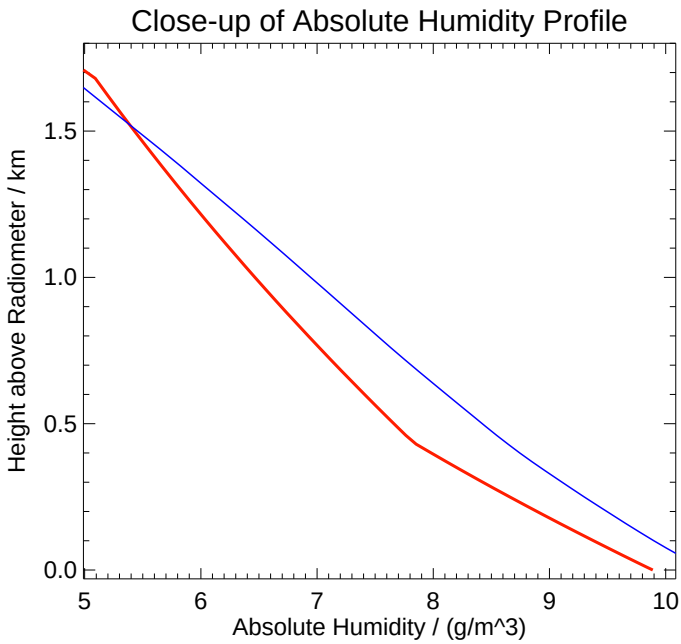
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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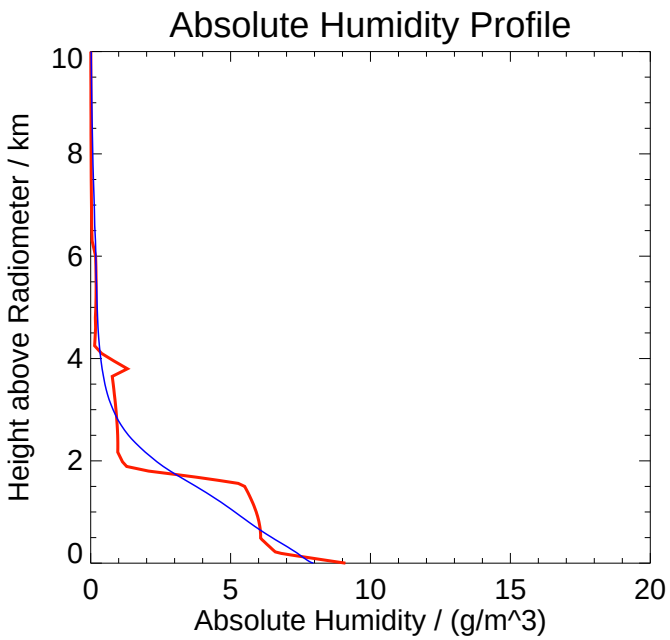
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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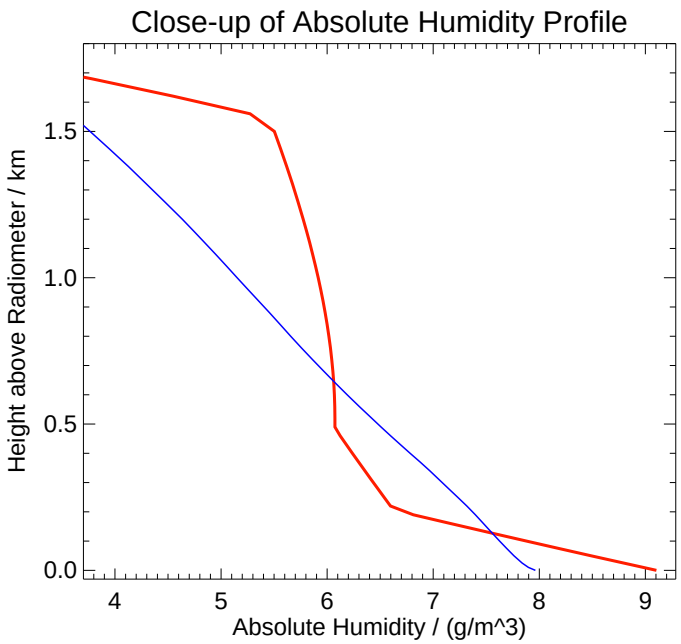
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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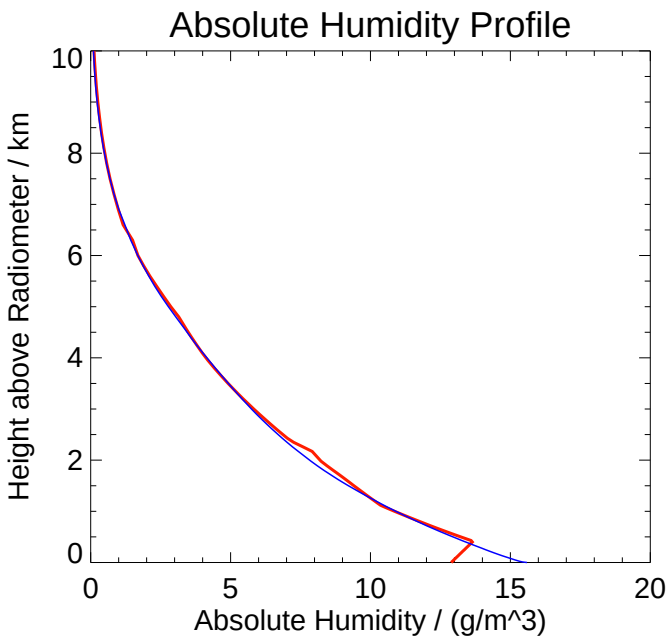
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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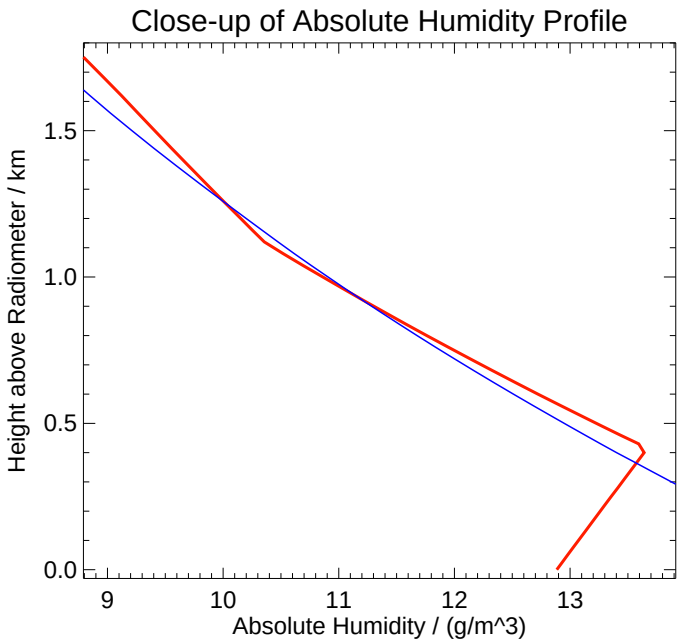
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
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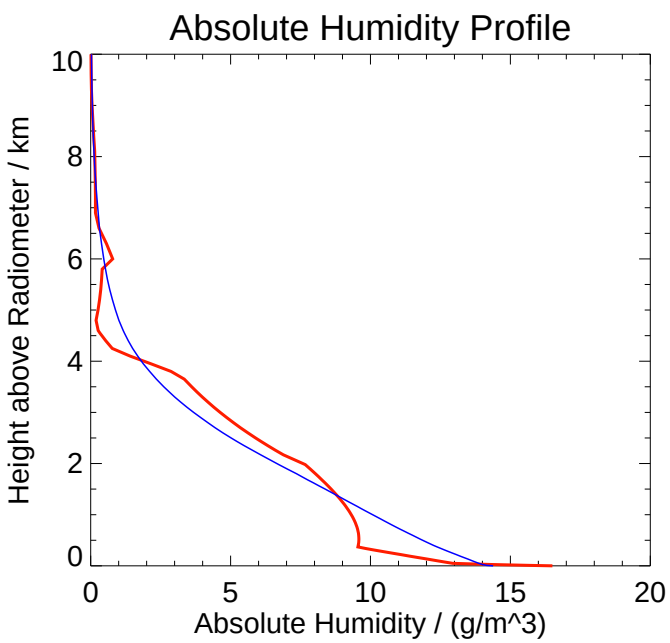
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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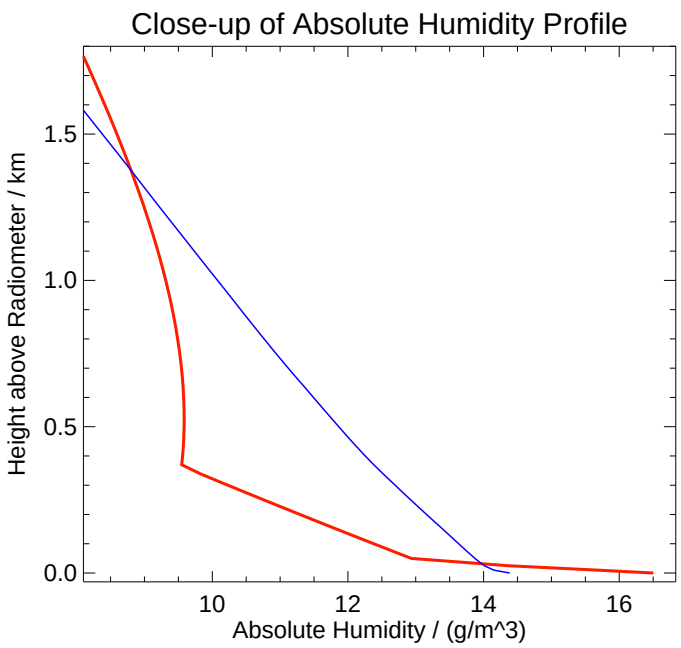
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
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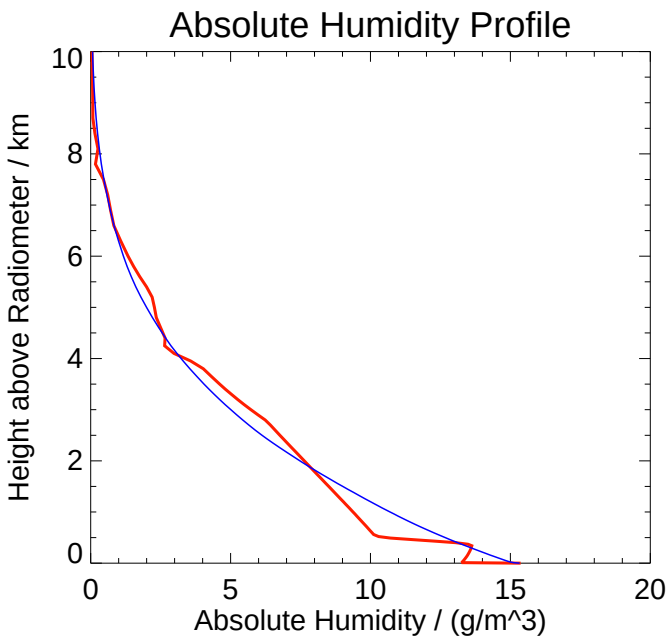
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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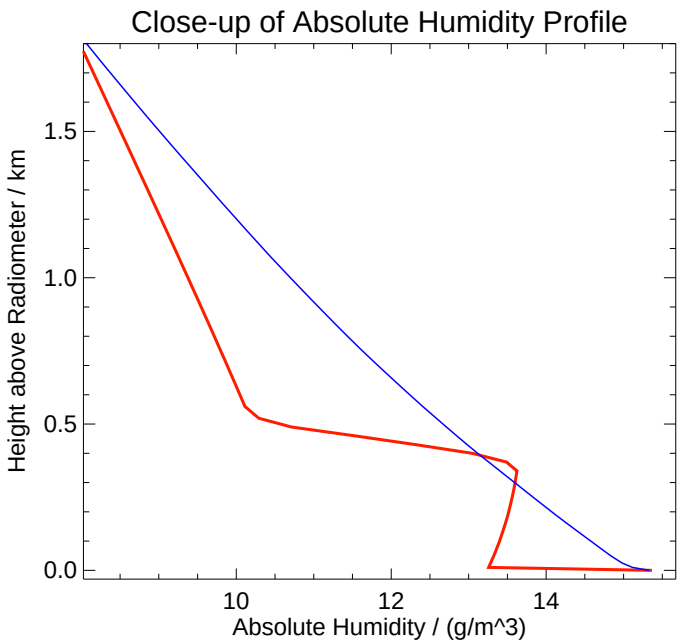
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
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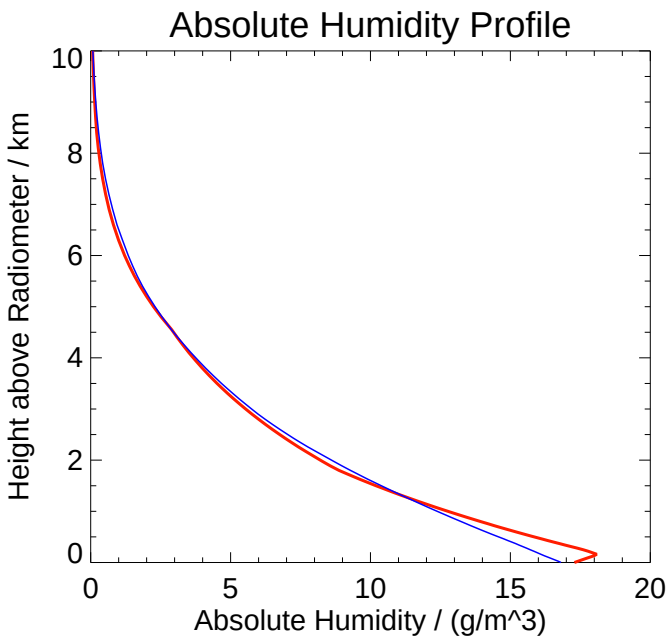
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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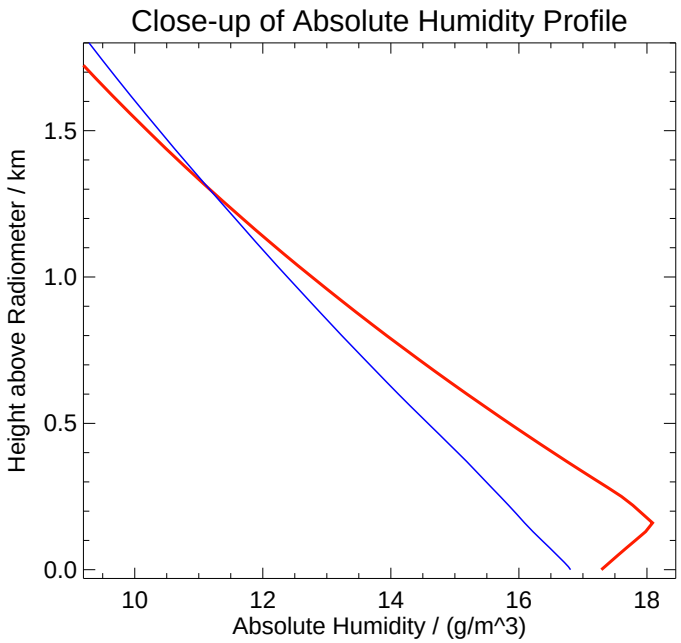
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
1.5
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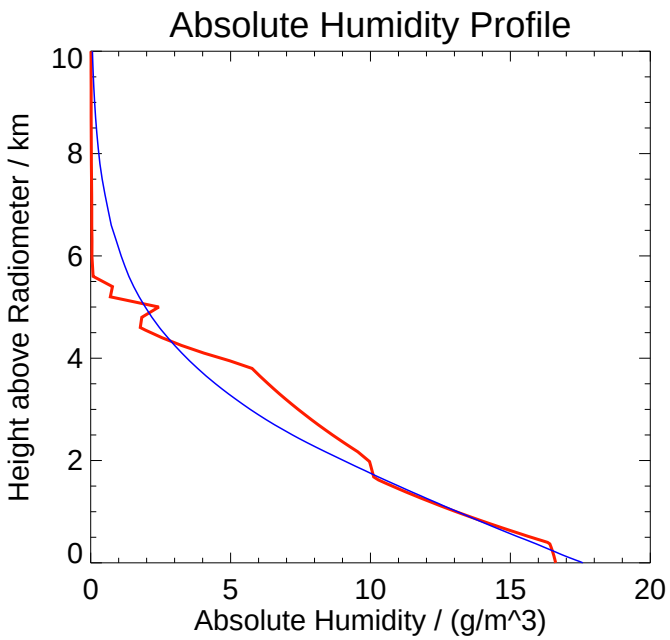
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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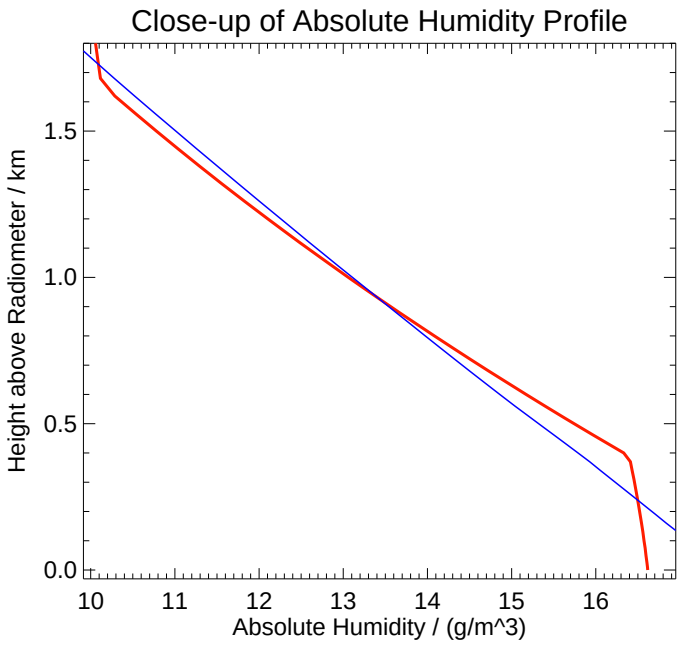
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
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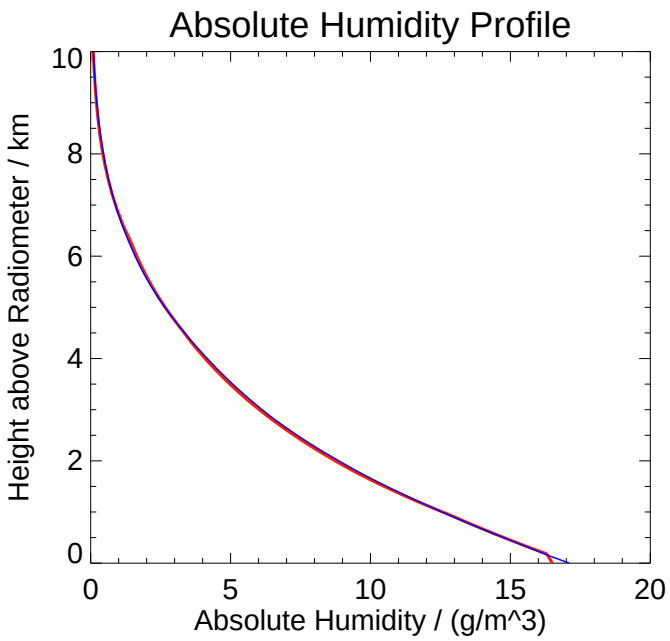
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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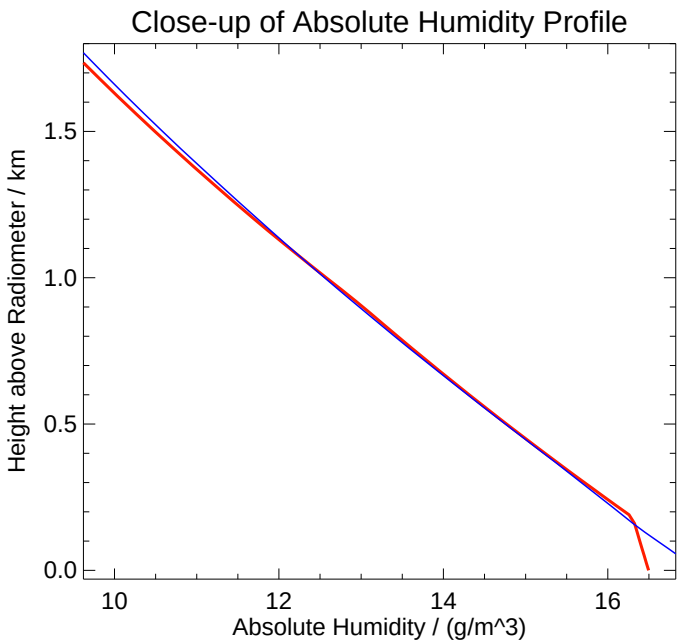
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
10
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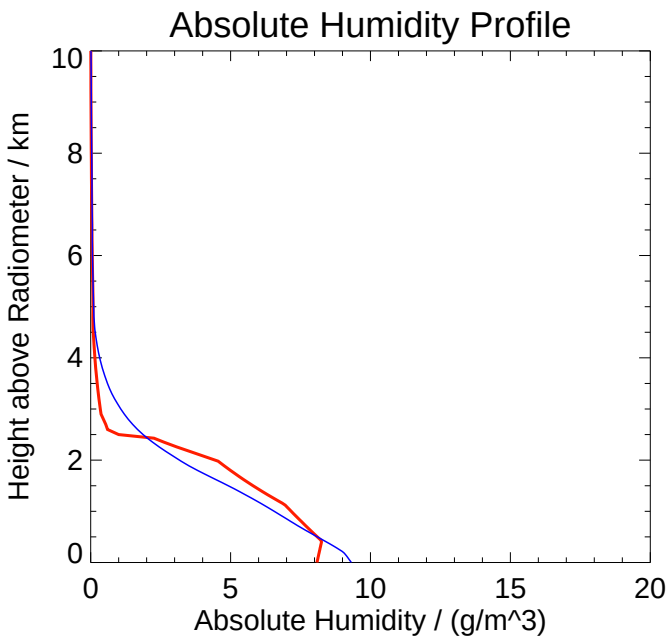
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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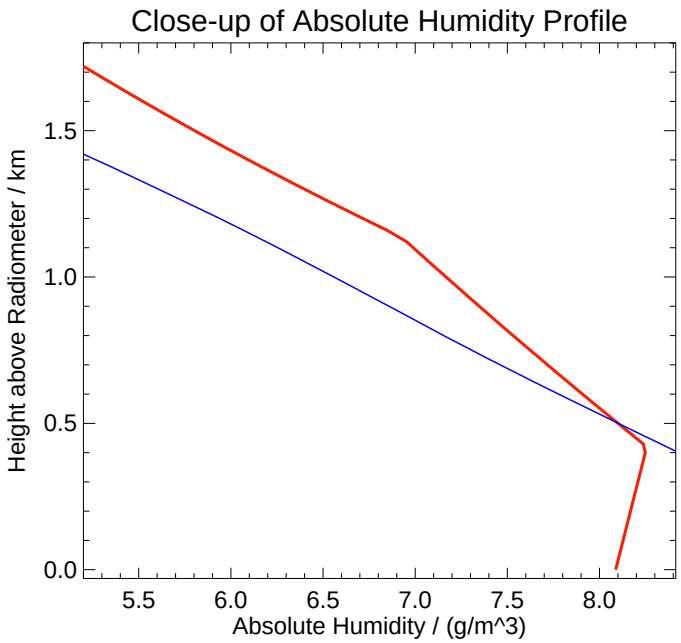
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.5
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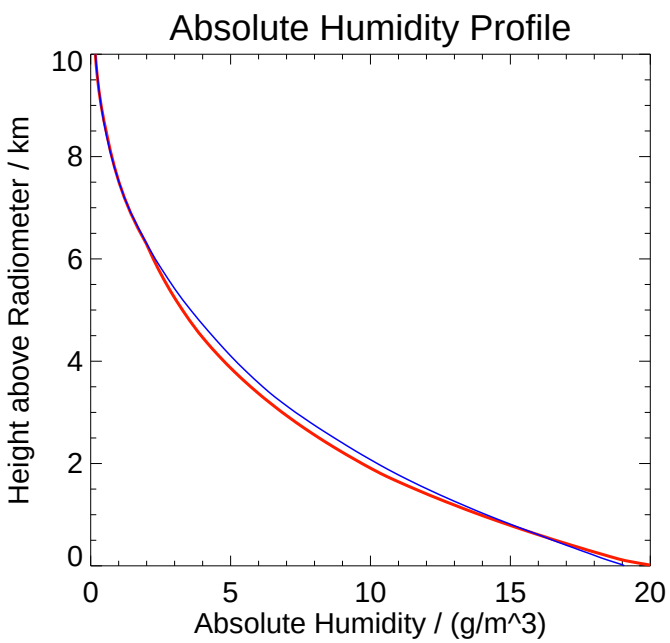
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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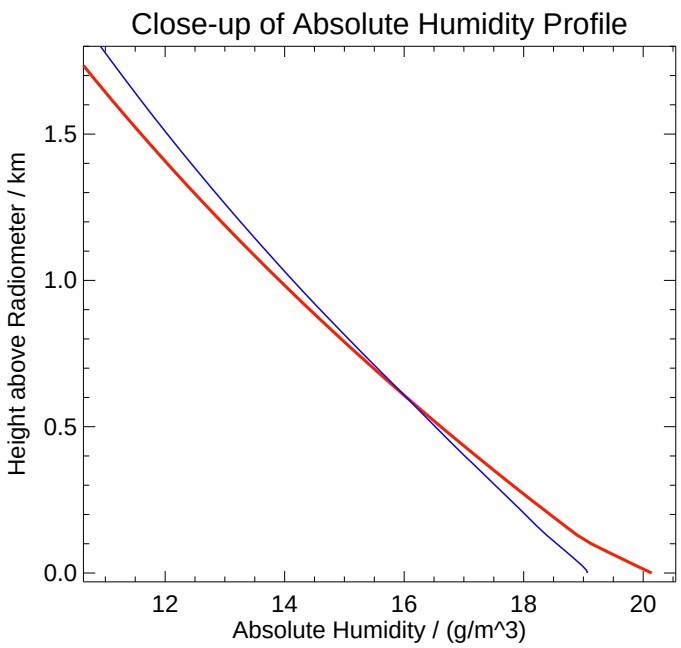
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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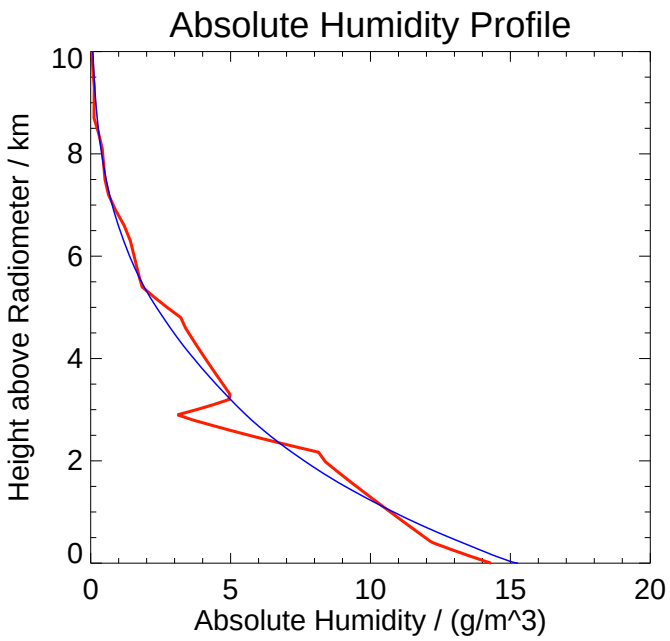
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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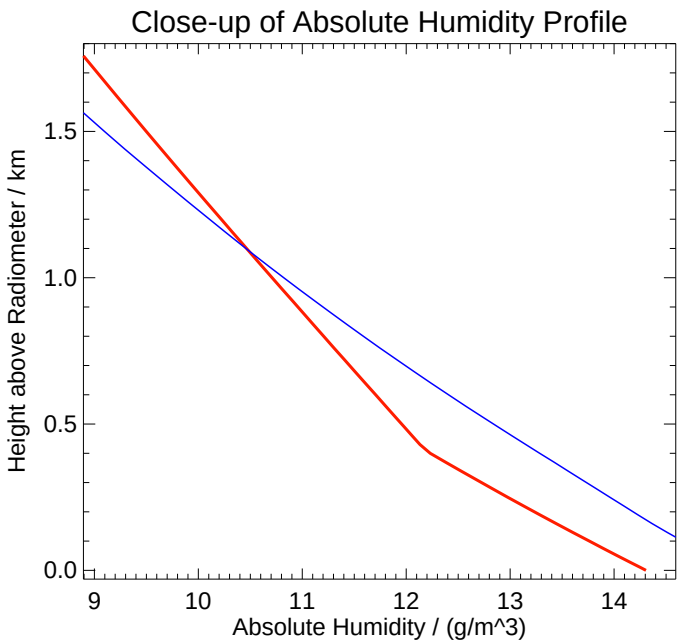
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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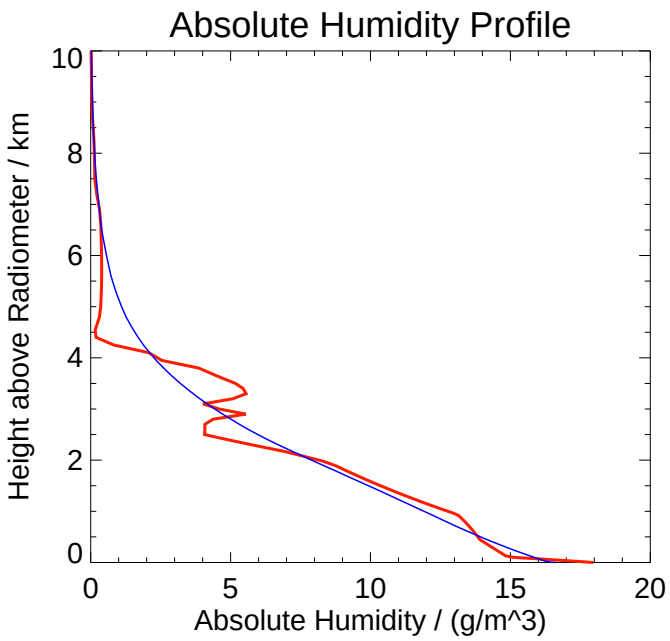
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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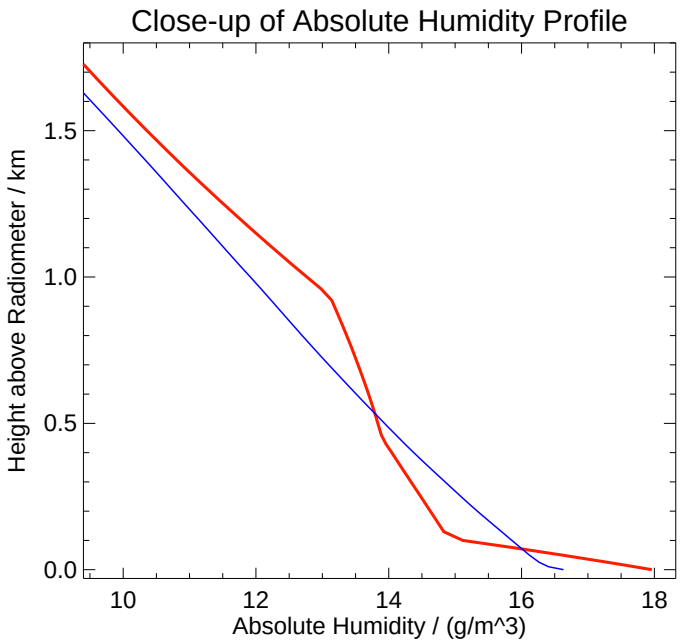
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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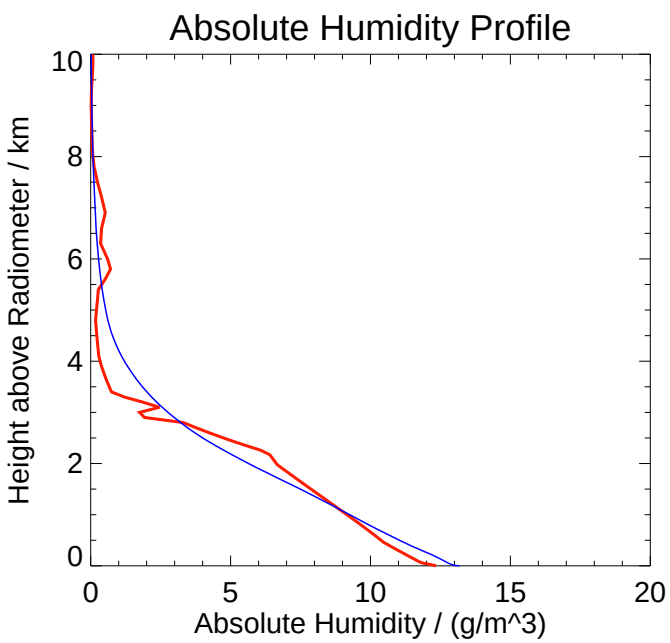
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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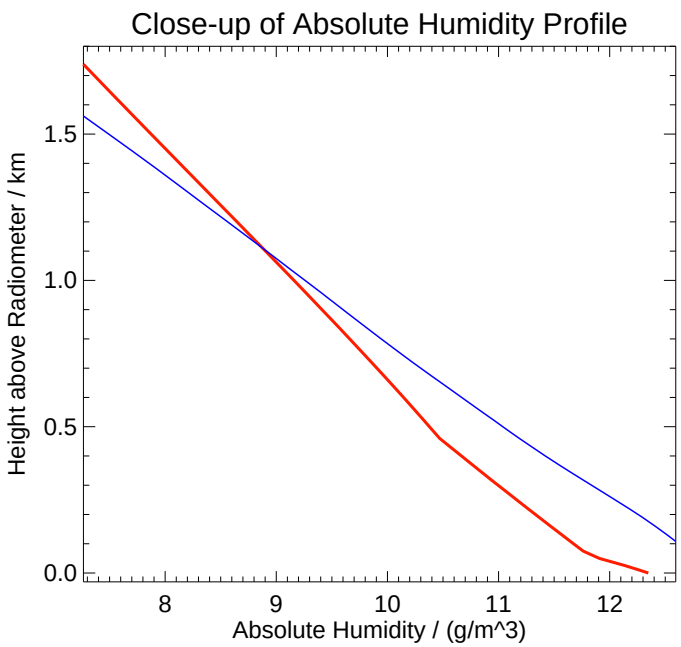
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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1.5
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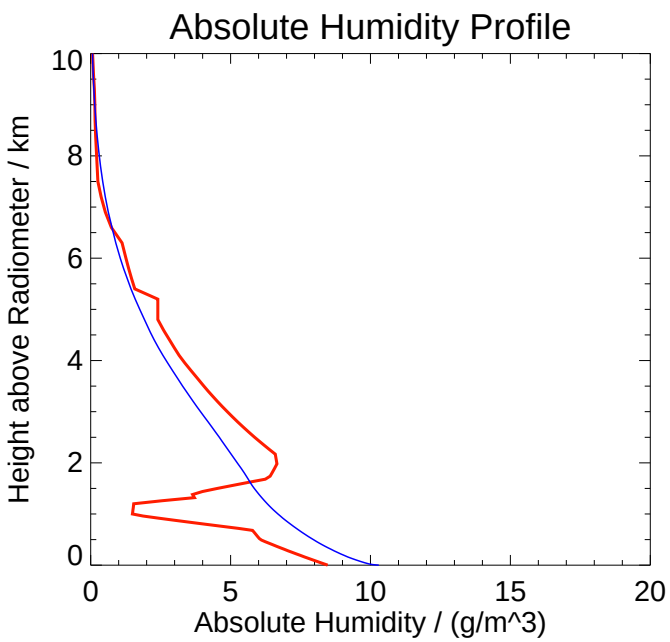
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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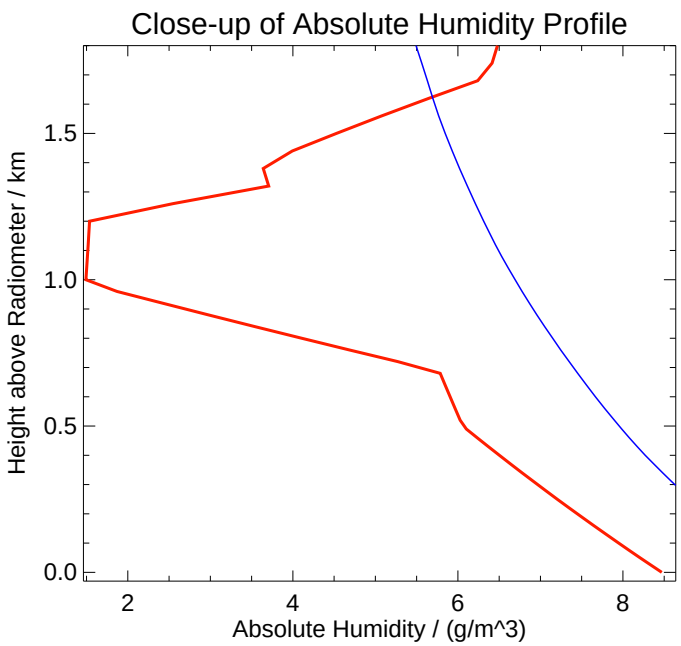
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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1.0
1.5
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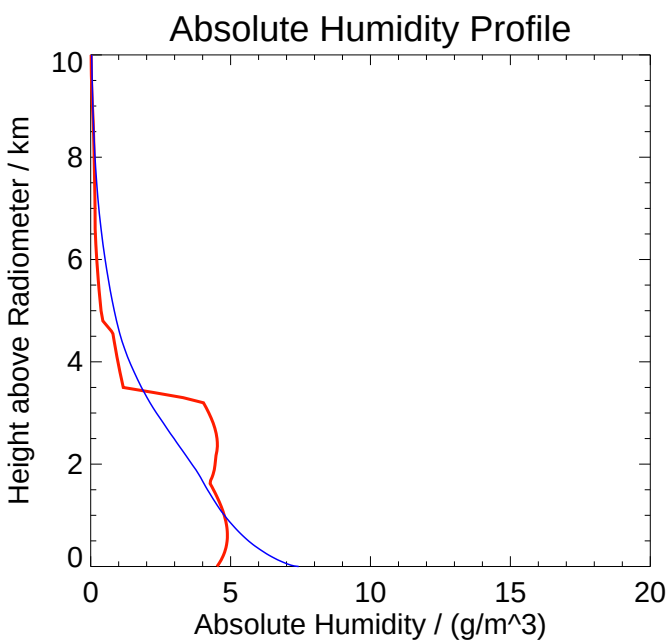
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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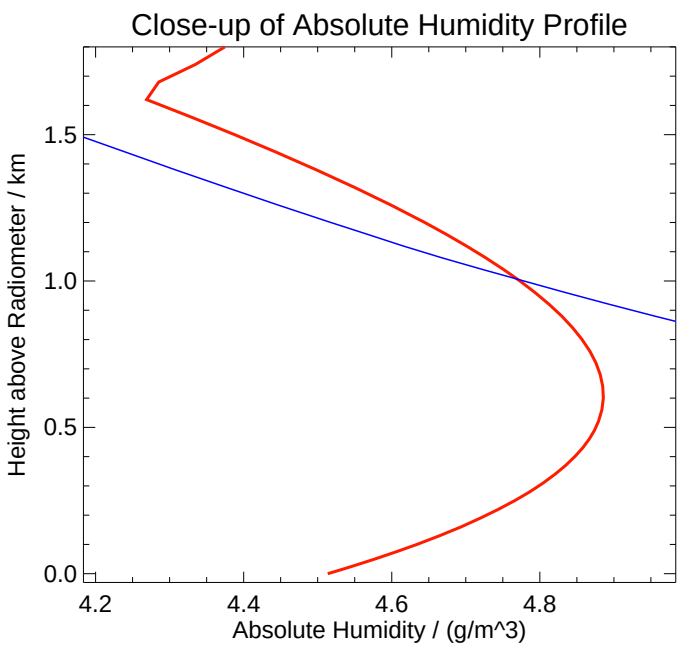
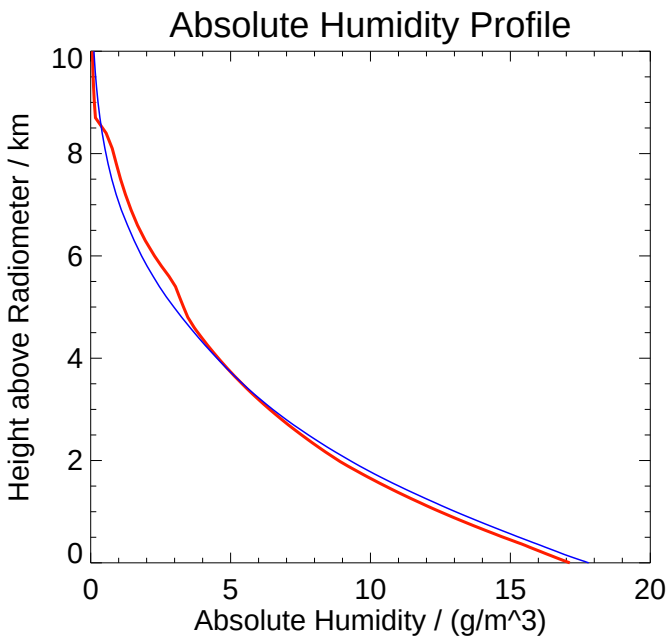

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4.2
4.4
4.6
4.8


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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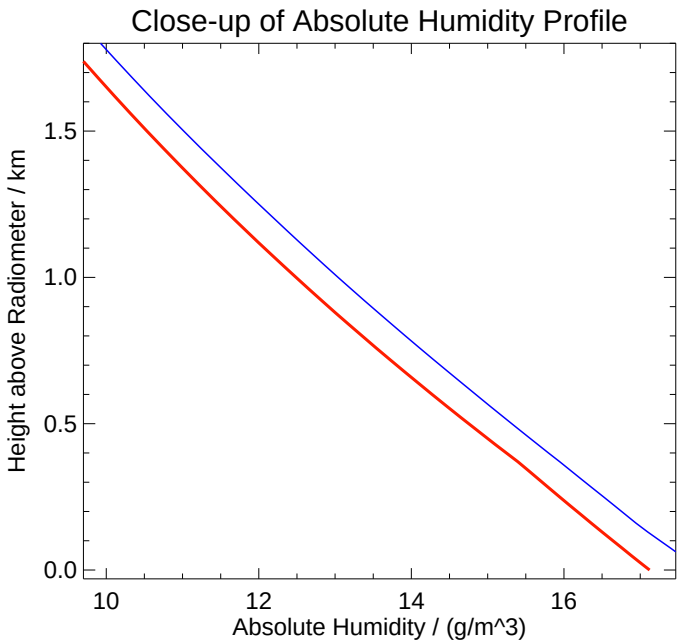
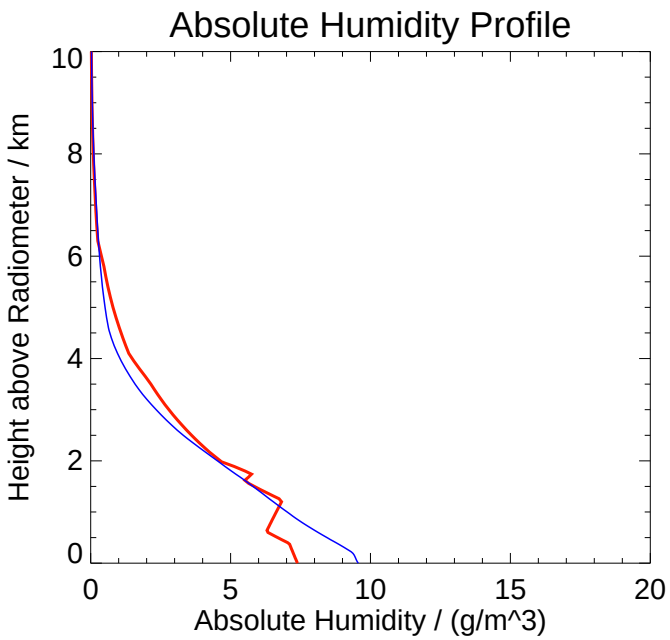
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
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15
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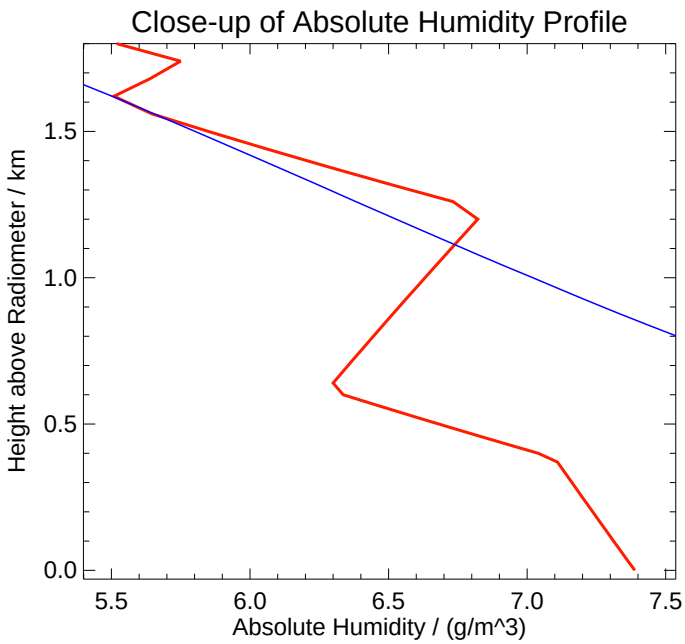
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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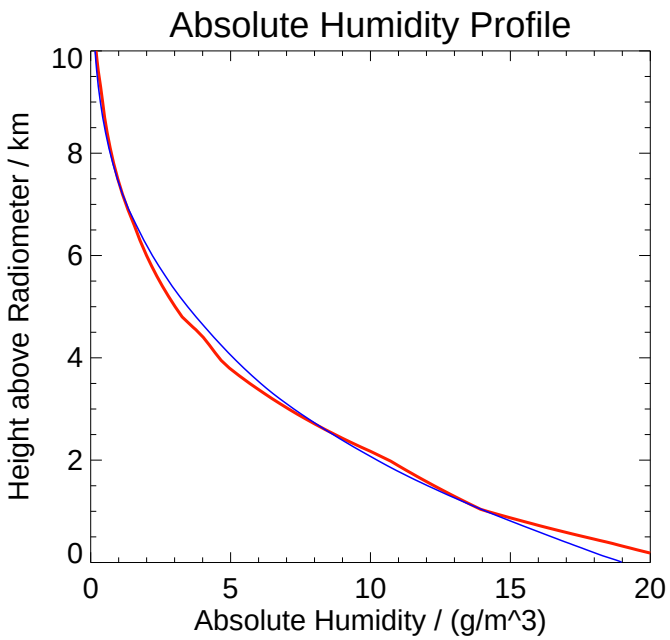
0.5
1.0
1.5
5.5
6.0
6.5
7.0
7.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
8
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15
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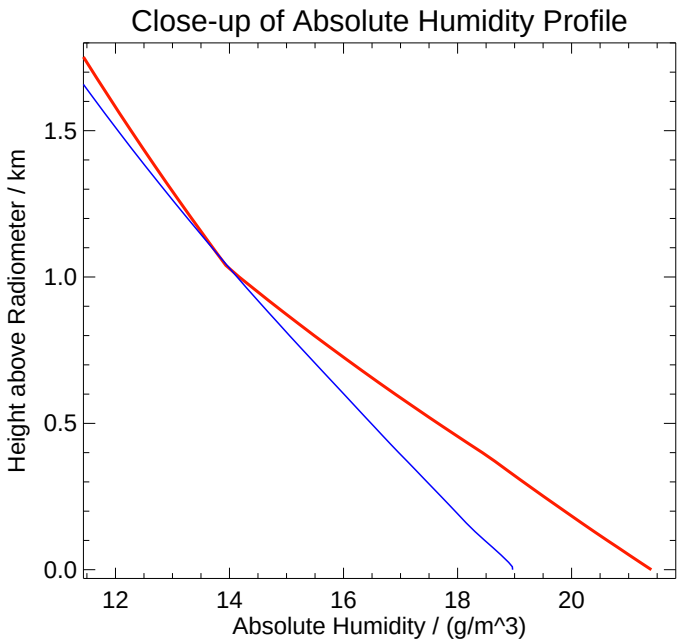
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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14
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18
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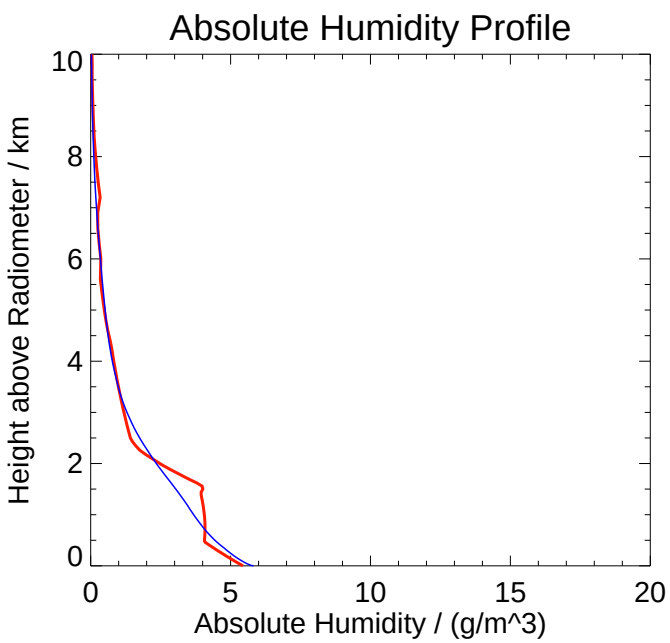
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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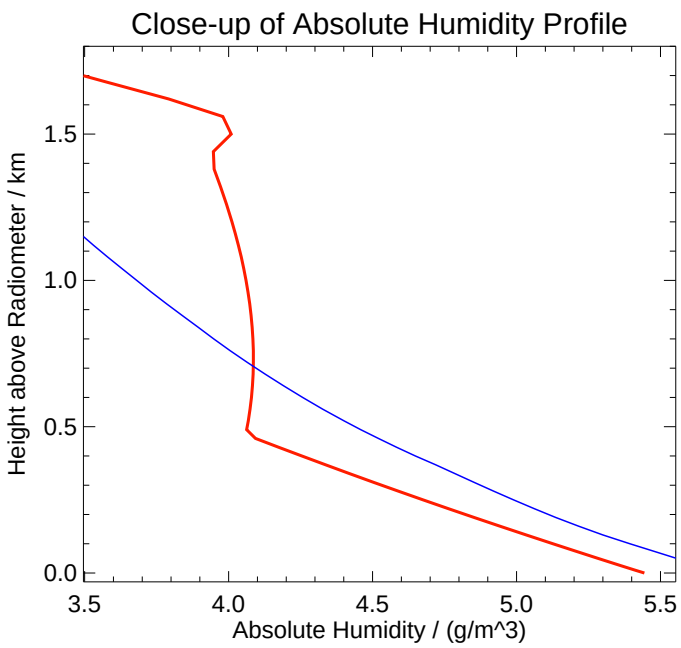
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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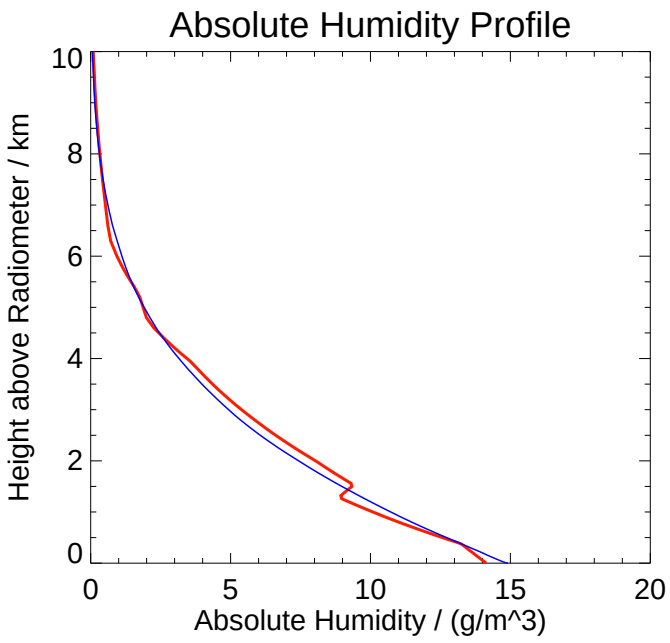
4.5
5.0
5.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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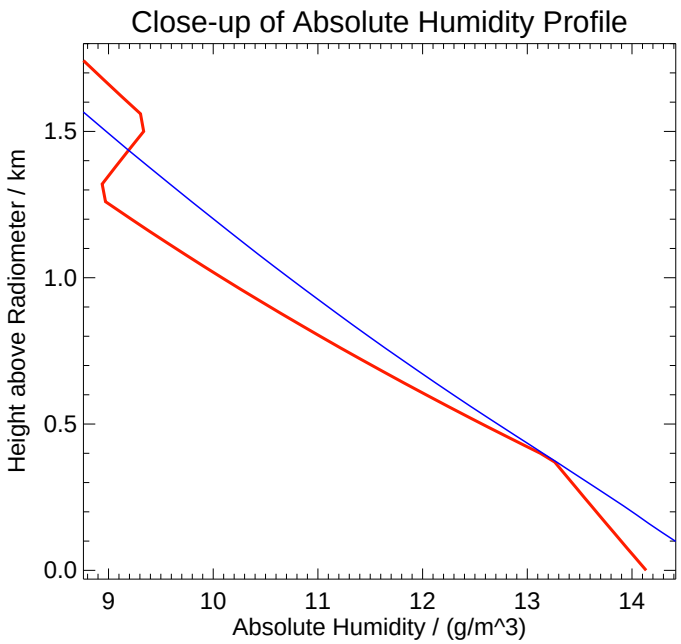
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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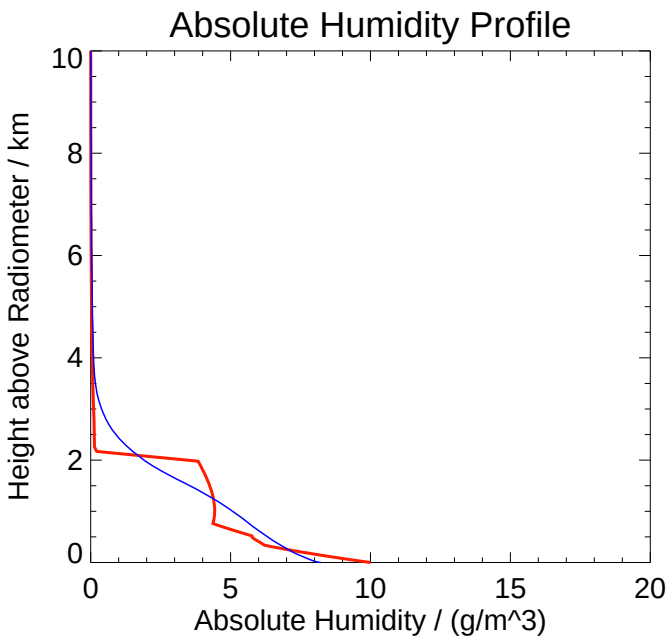
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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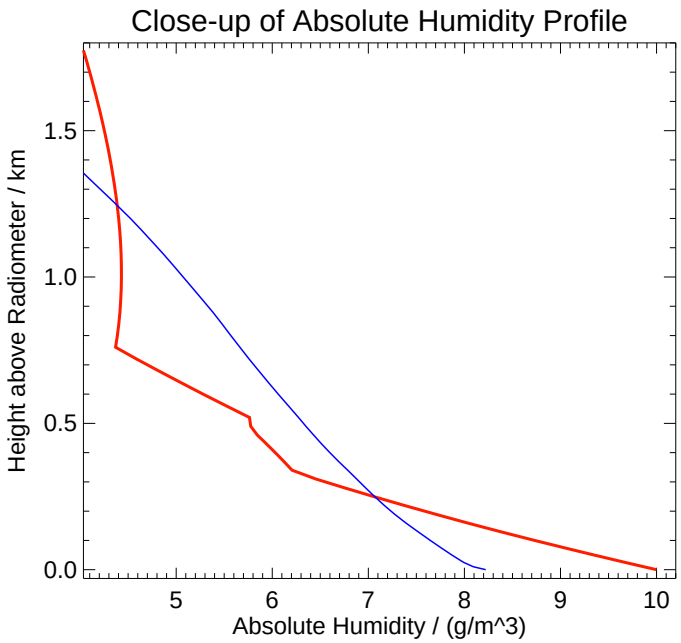
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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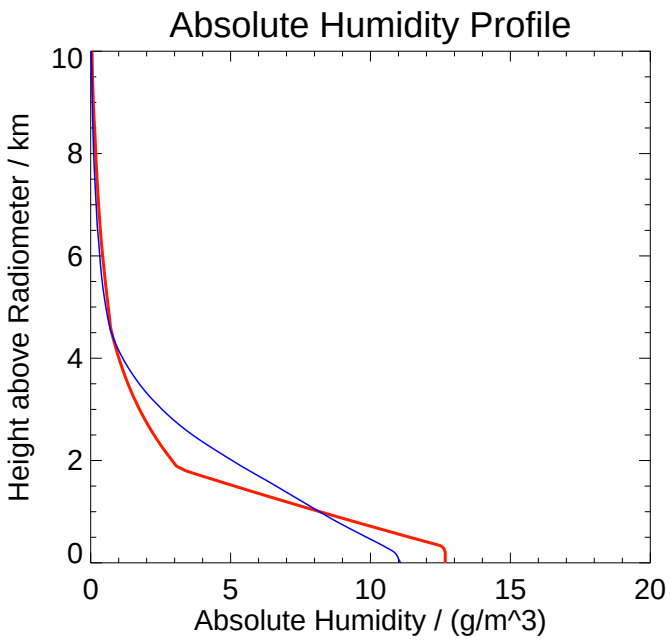
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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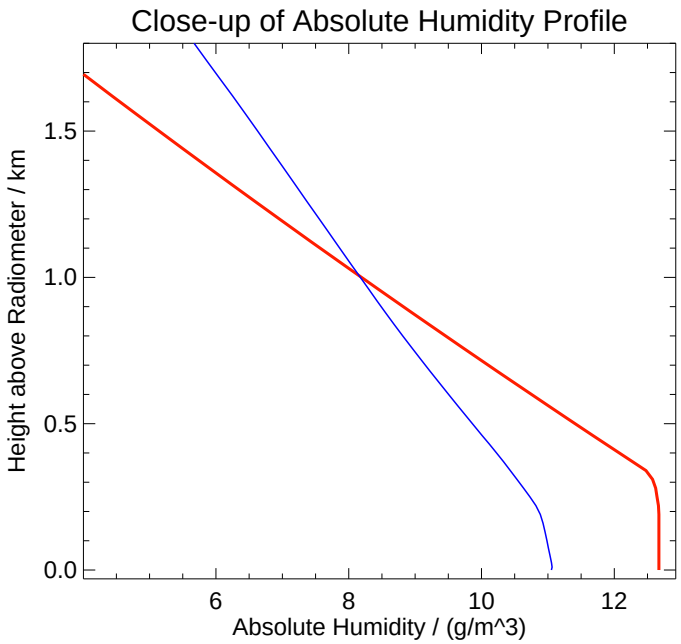
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
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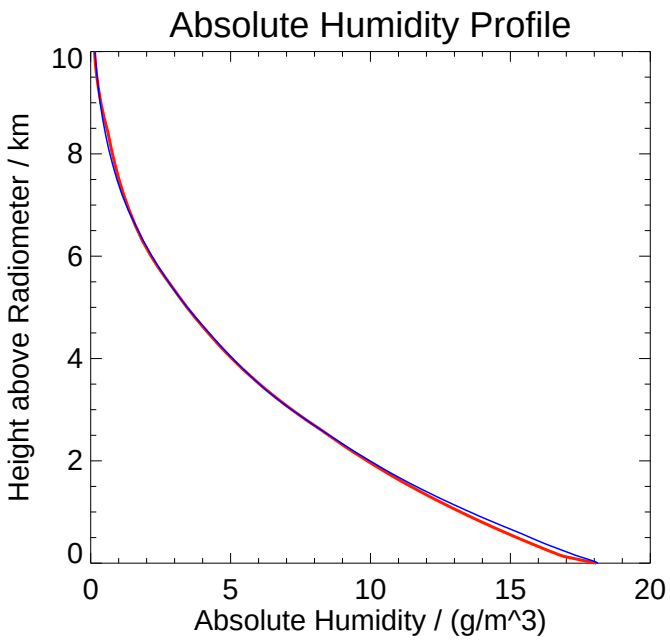
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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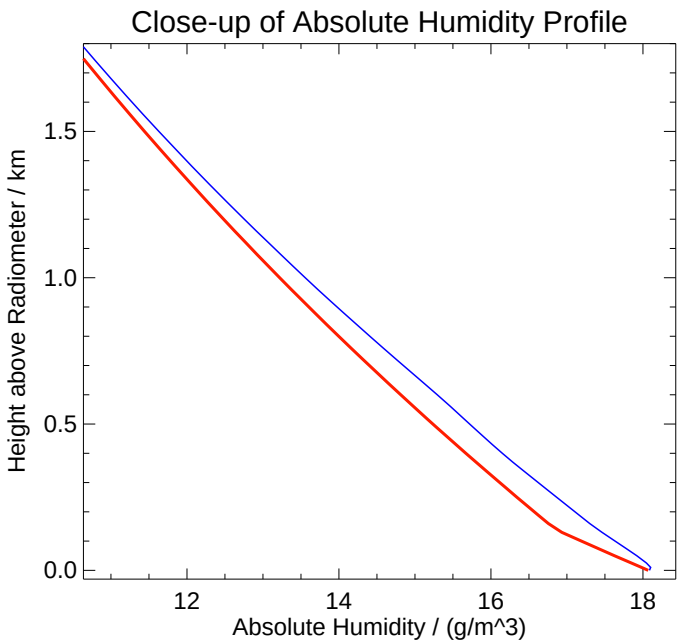
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
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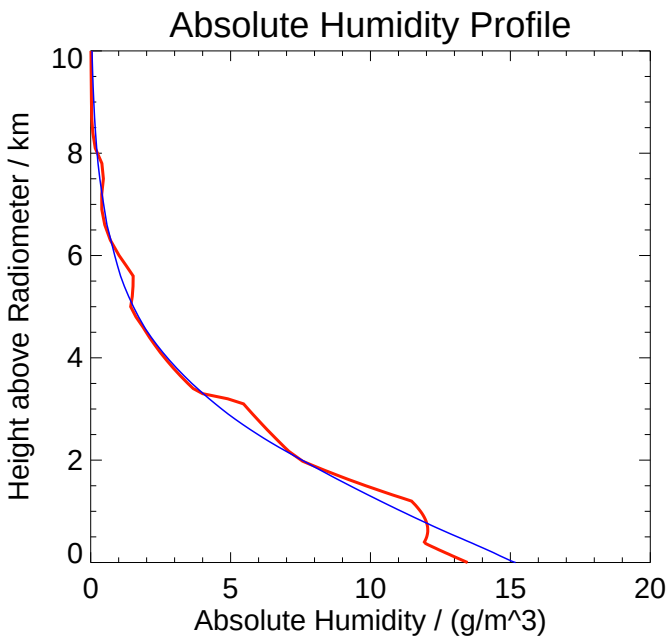
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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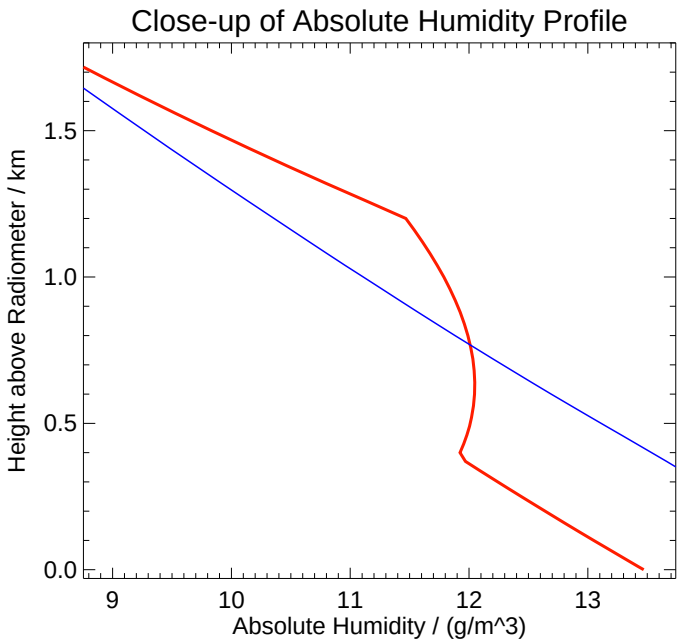
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
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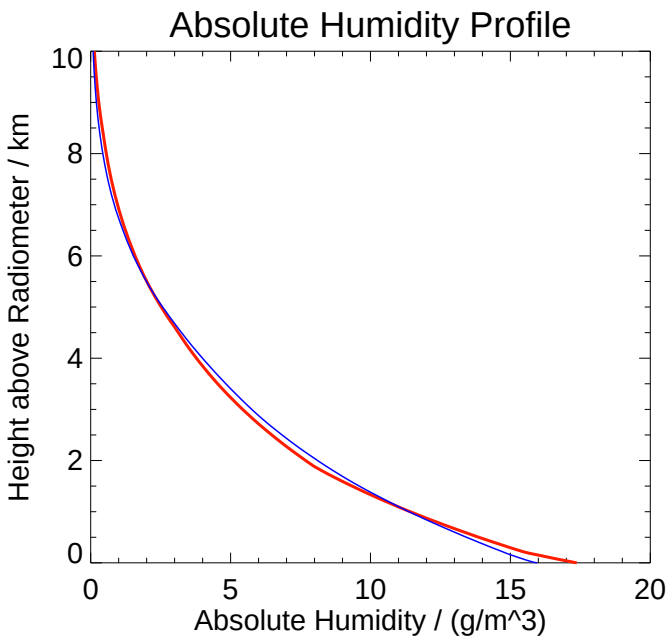
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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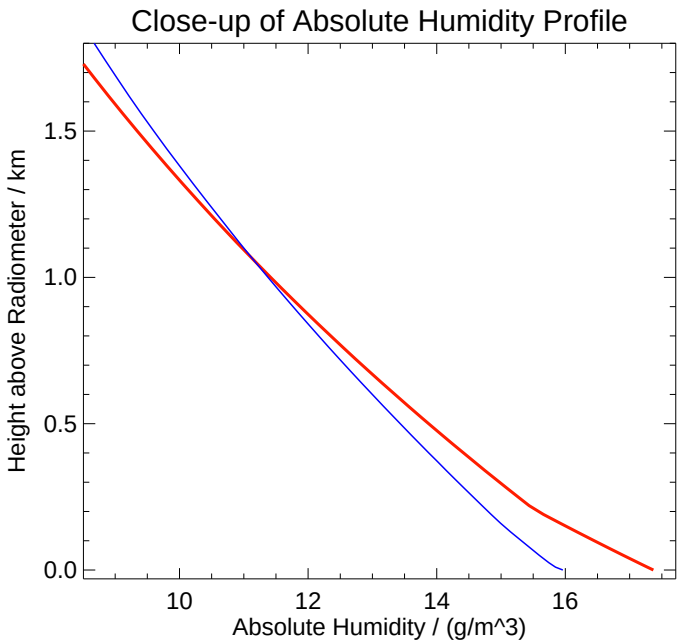
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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1.0
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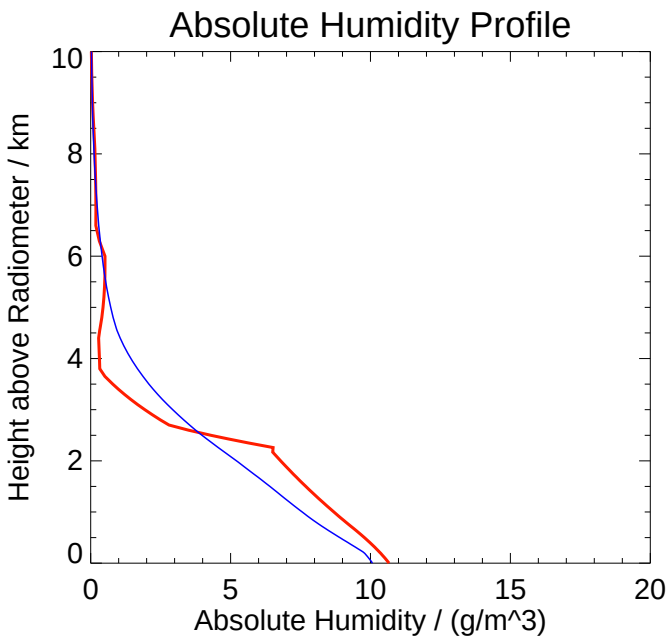
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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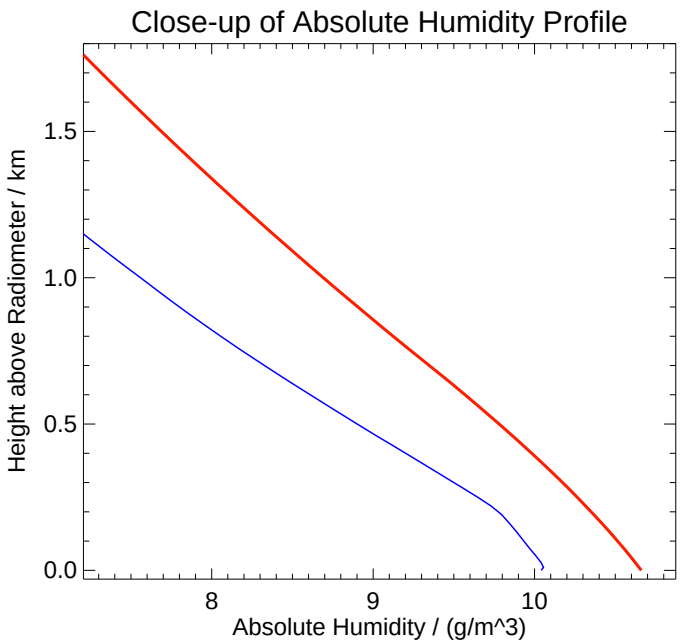
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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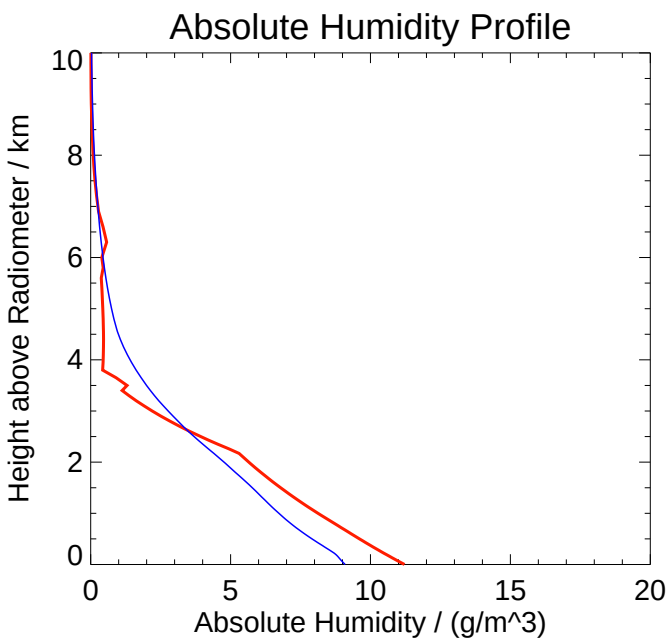
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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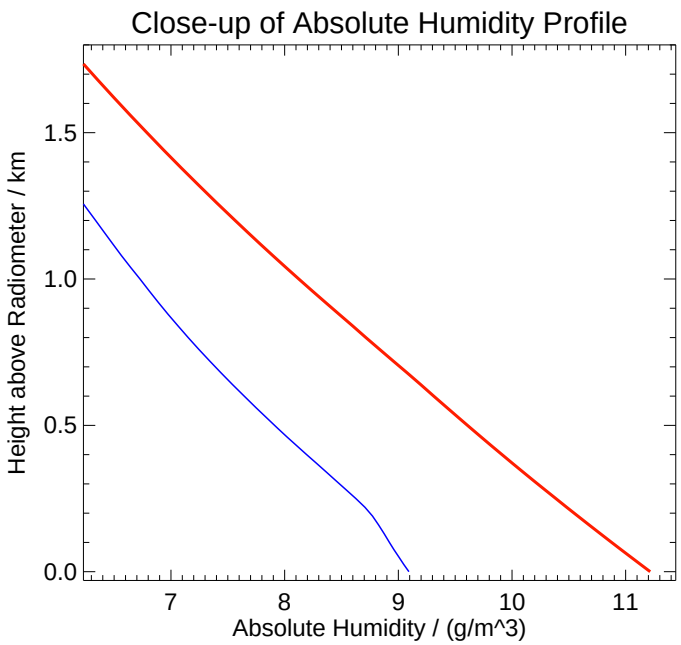
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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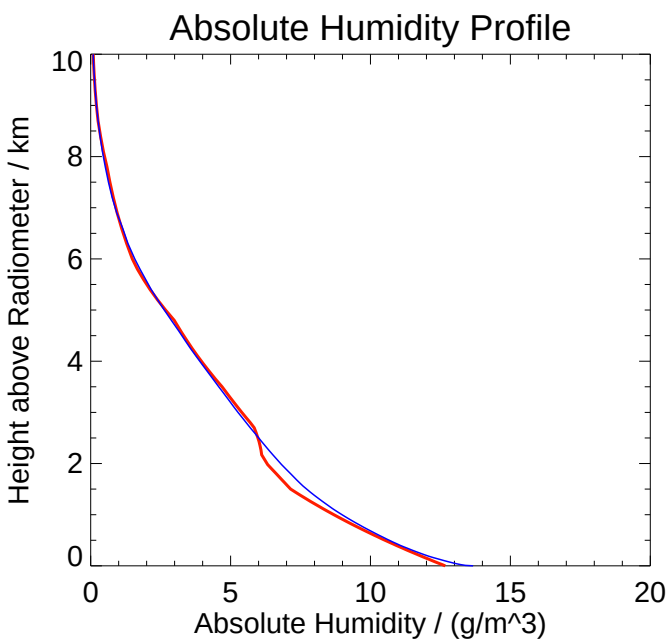
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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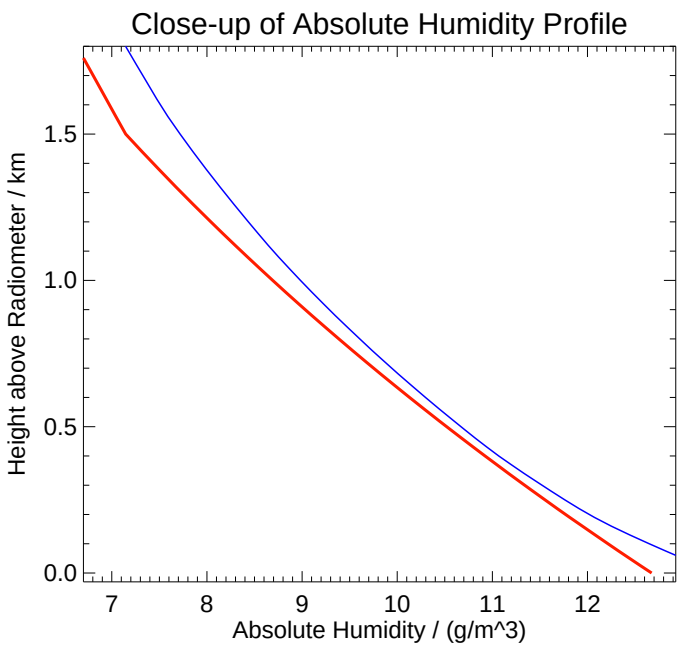
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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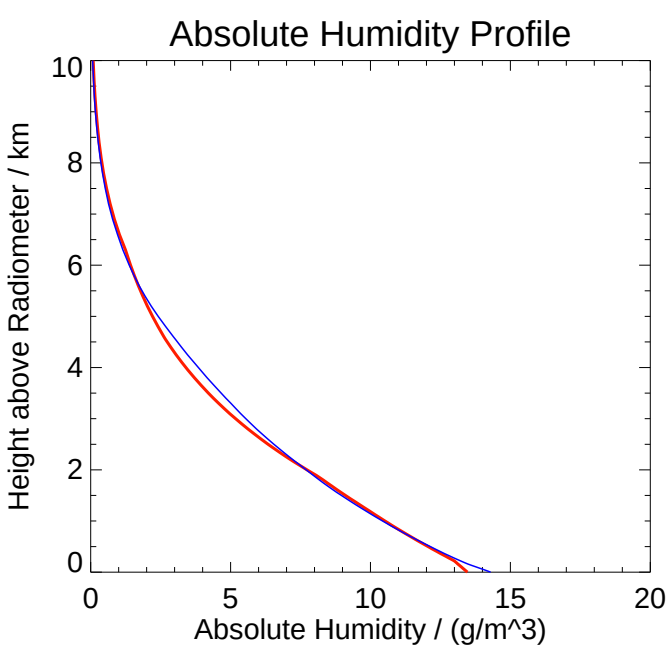
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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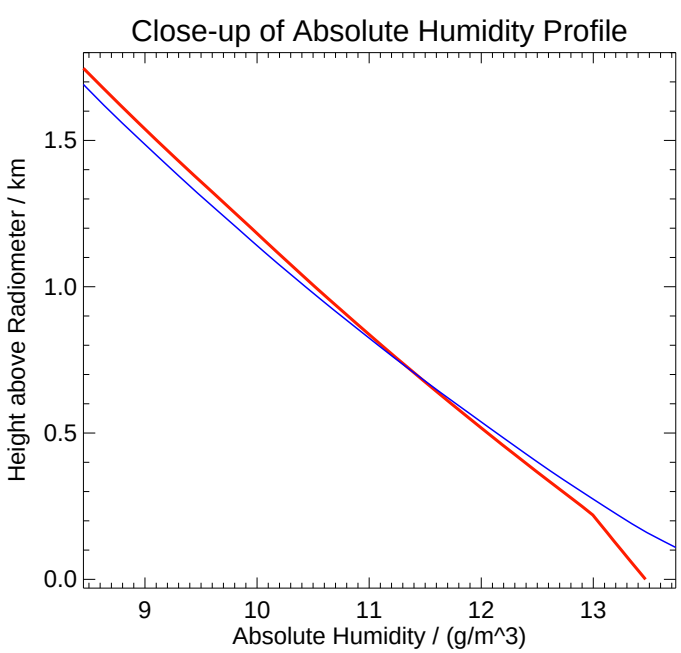
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
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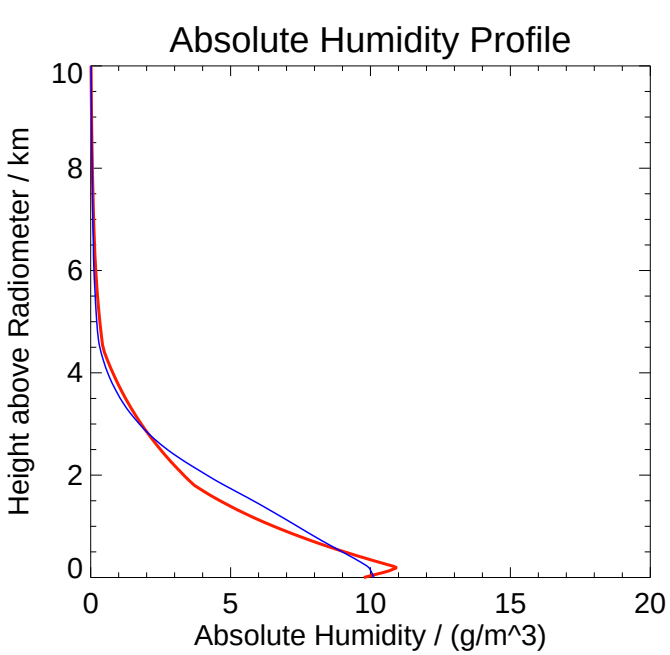
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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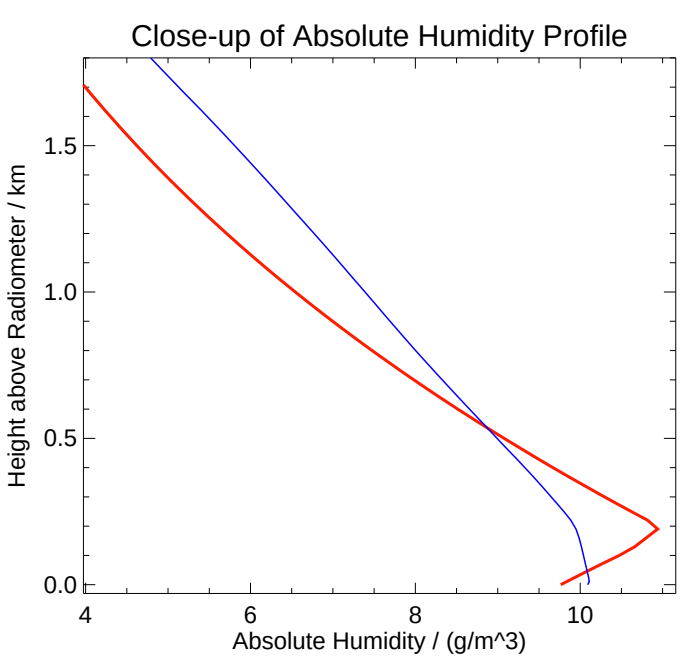
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
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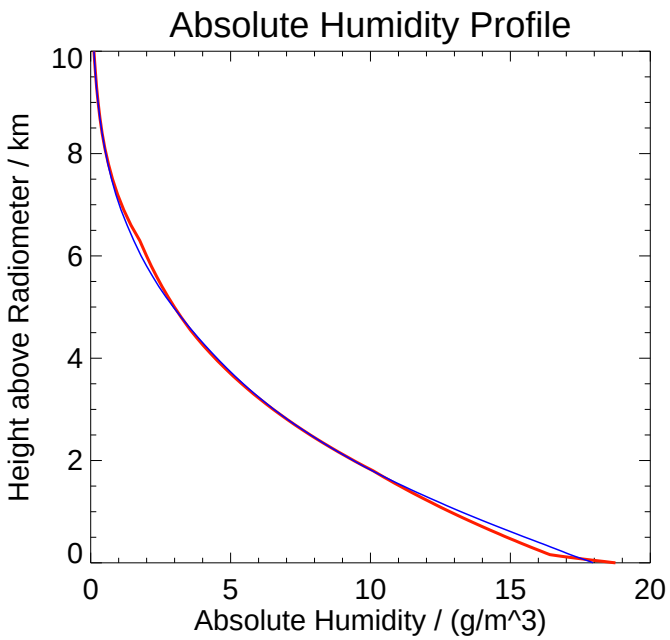
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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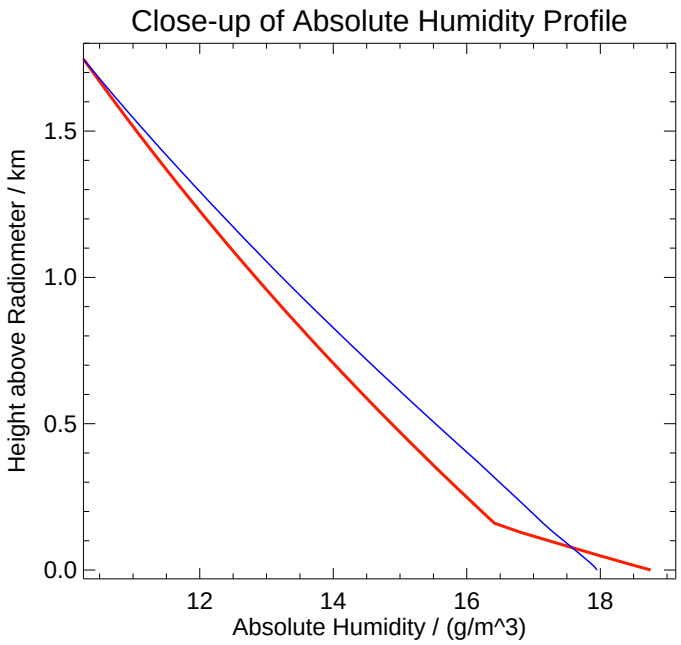
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
1.5
12
14
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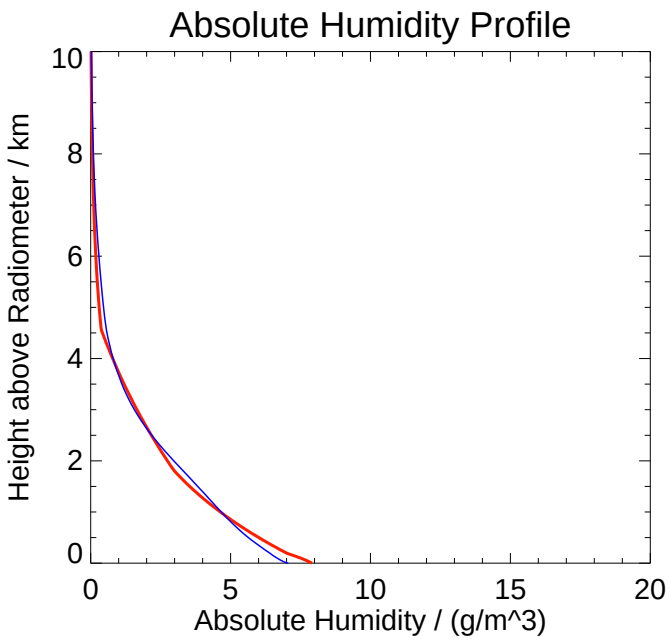
18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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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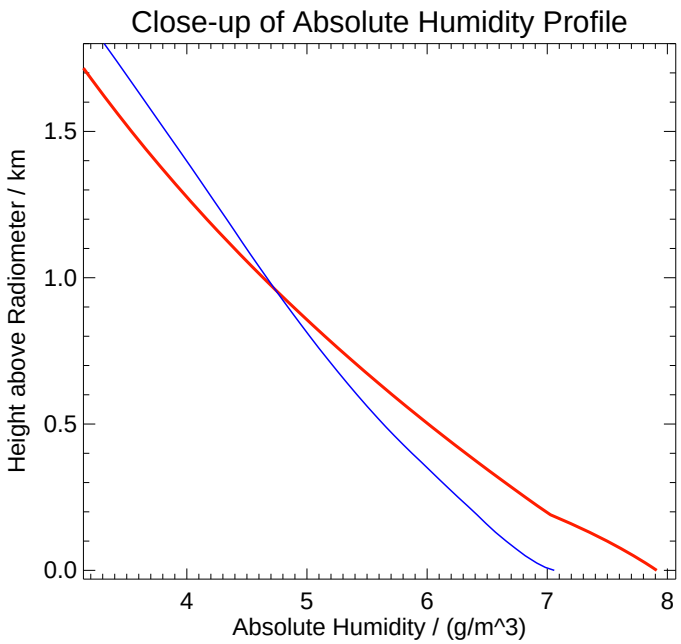
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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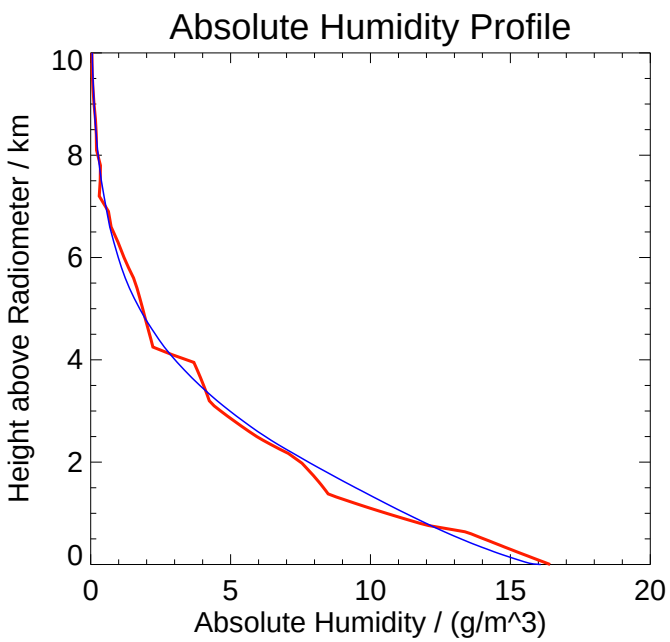
Absolute Humidity Profile
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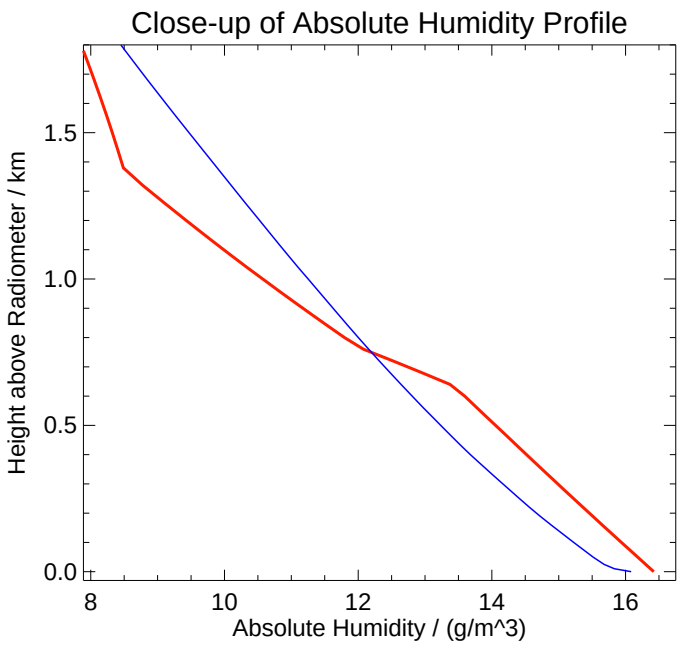
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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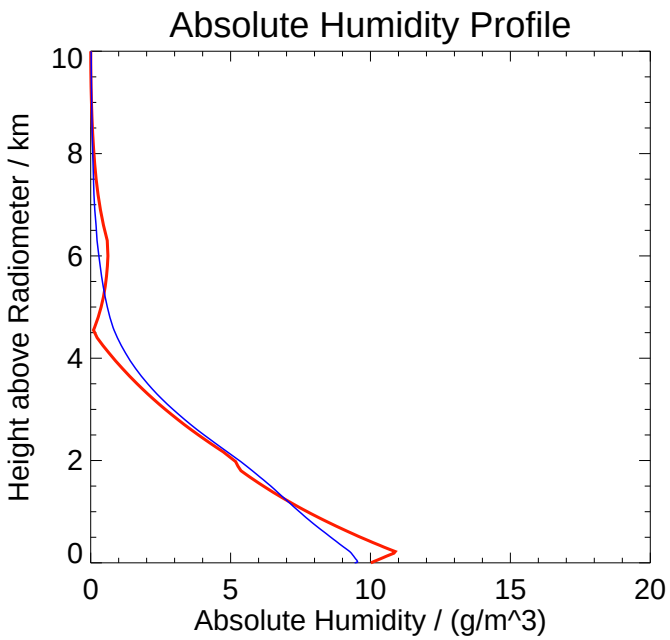
Absolute Humidity Profile
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Absolute Humidity / (g/m^3)
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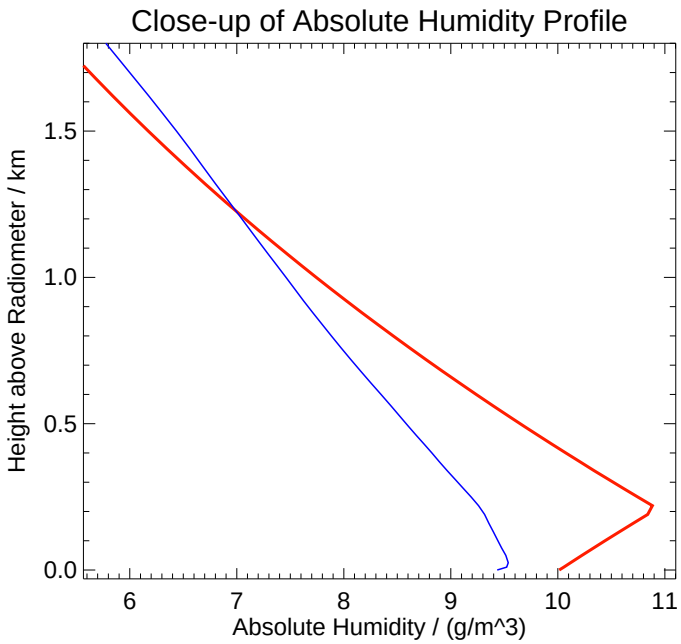
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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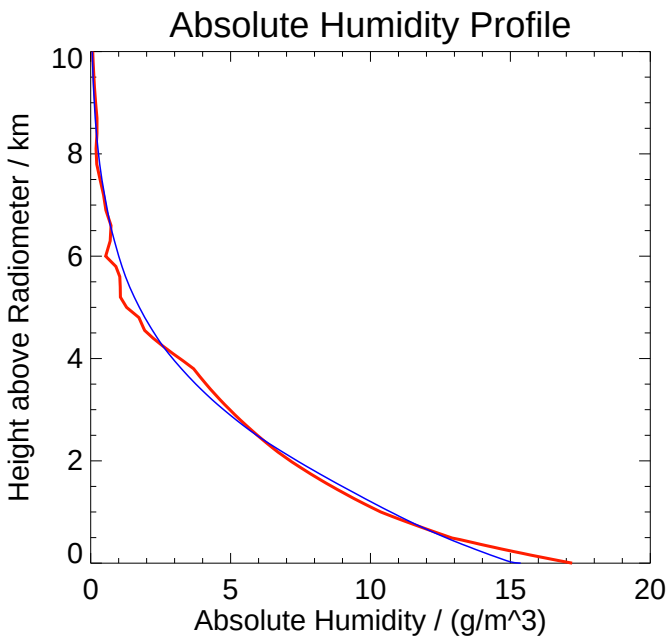
Absolute Humidity Profile
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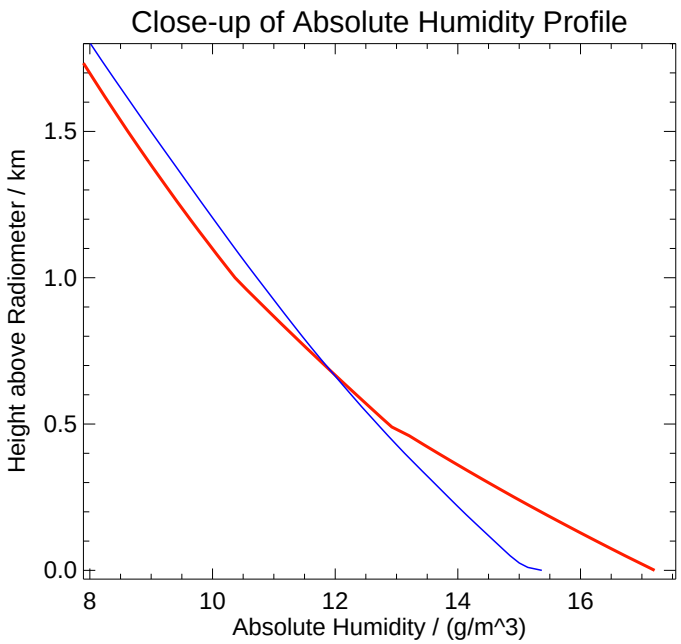
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
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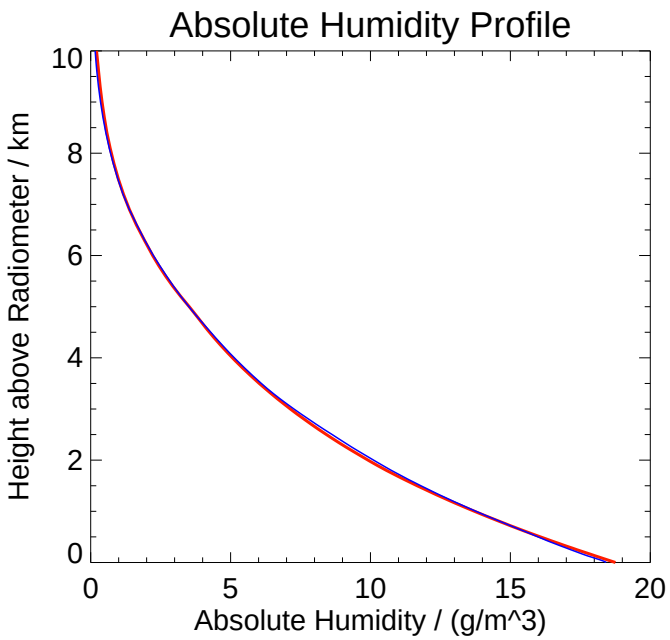
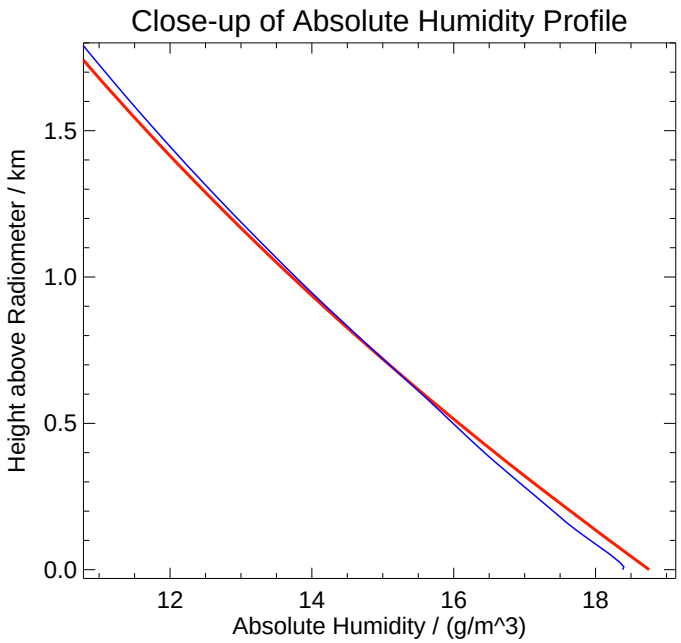
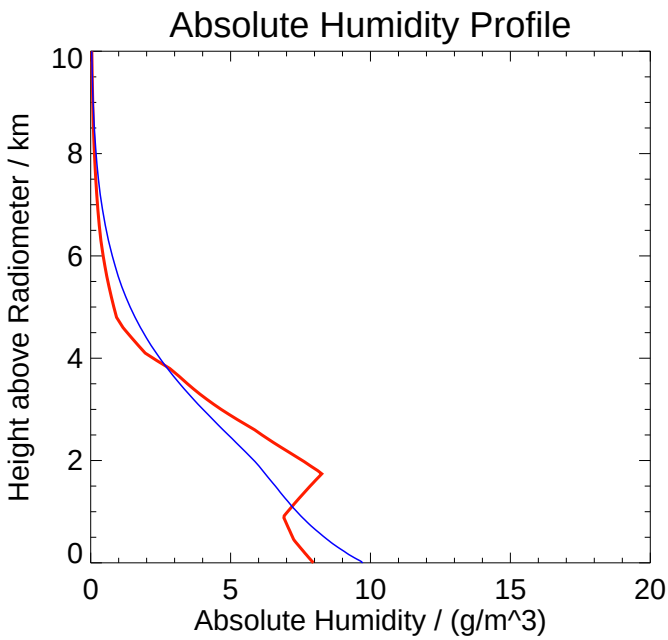
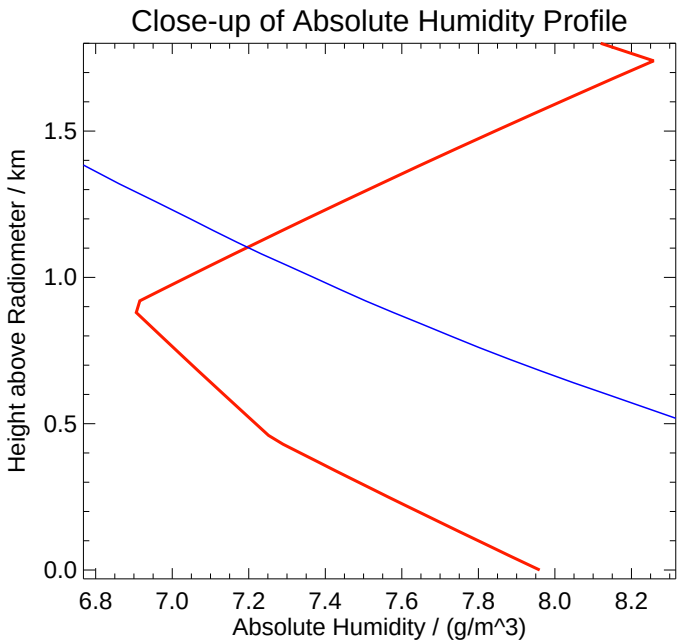
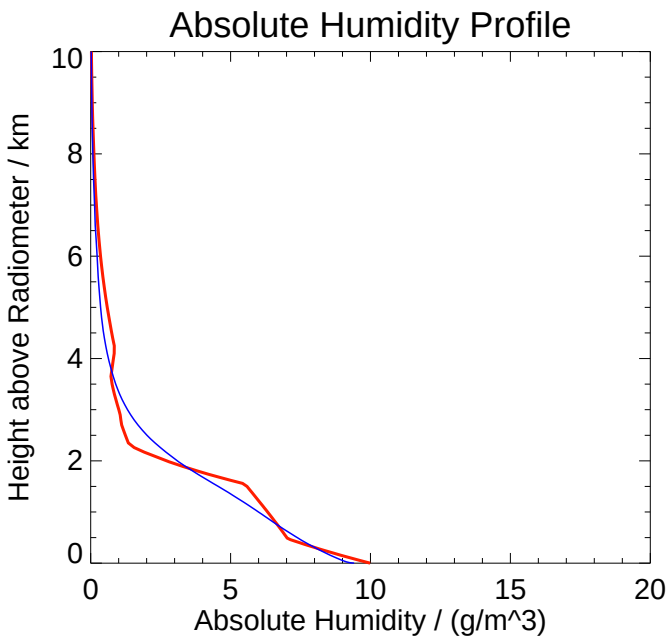
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
10
15
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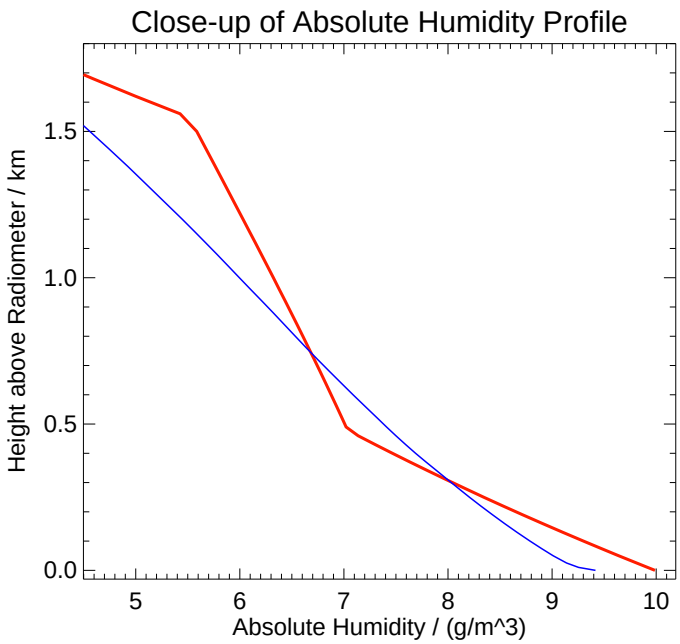
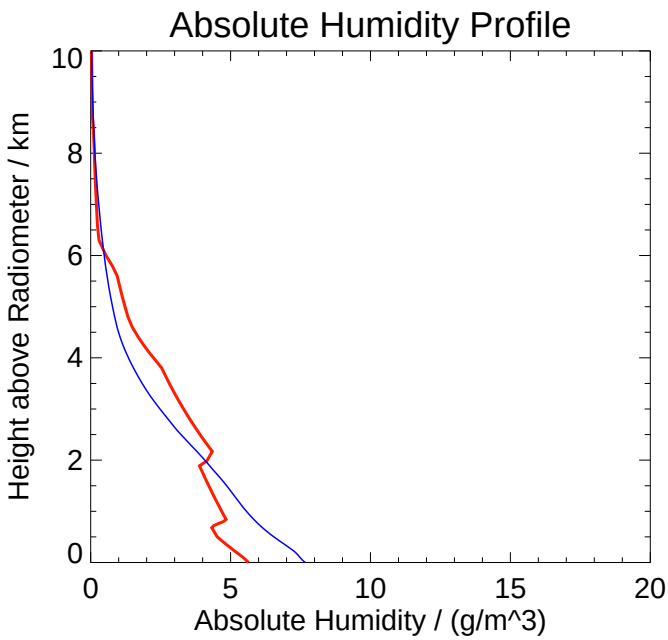

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
5
6
7
8
9
10


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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15
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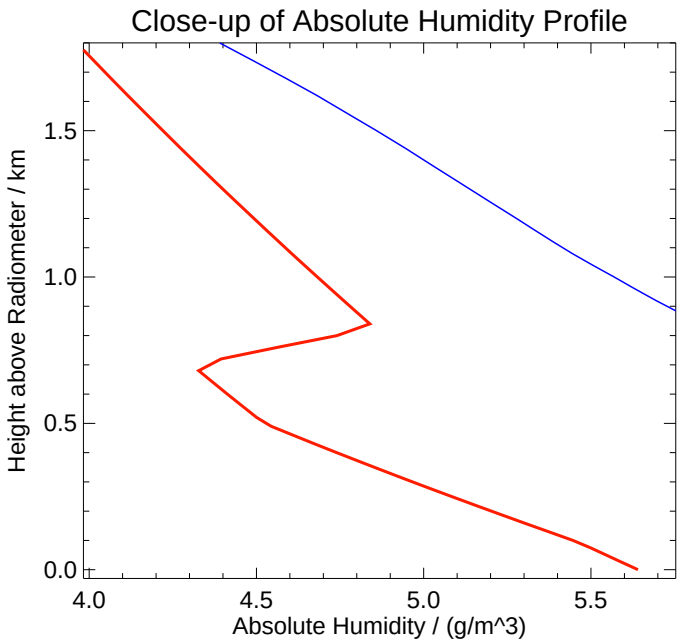
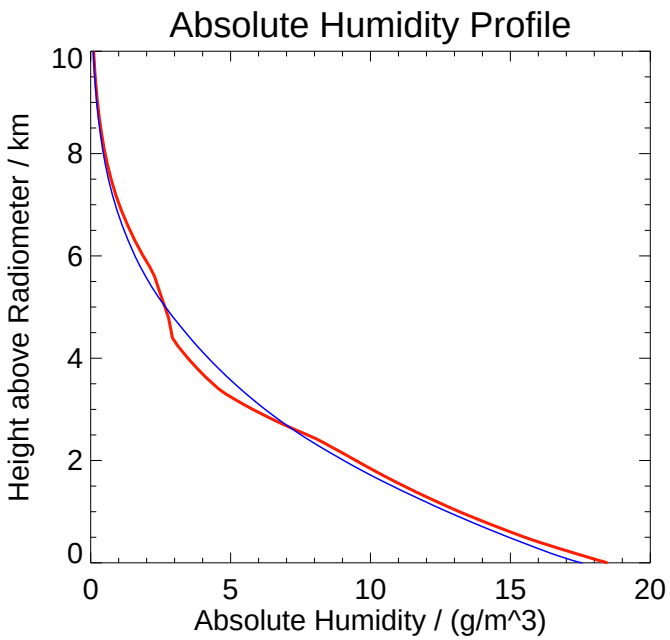

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
4.0
4.5
5.0
5.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
0
5
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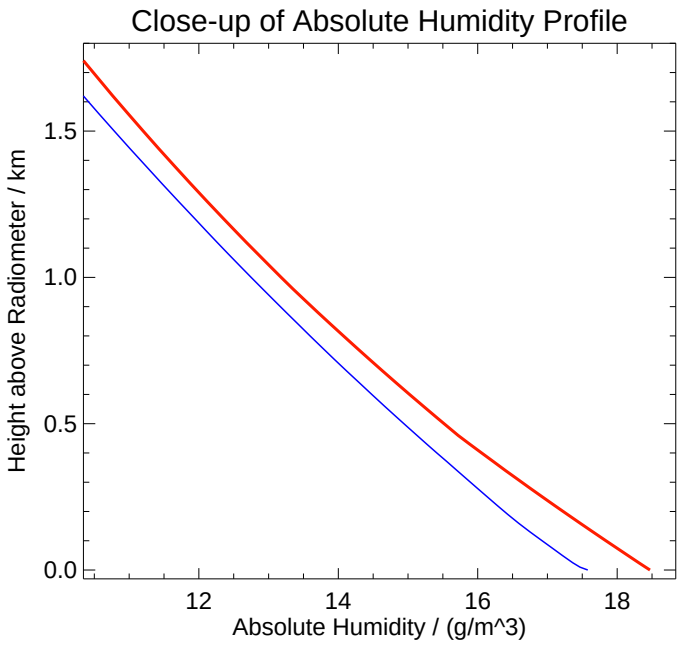
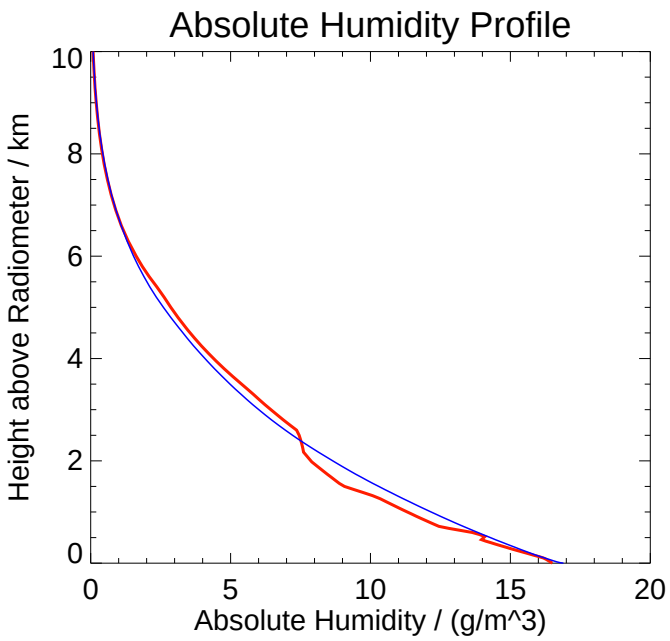
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
14
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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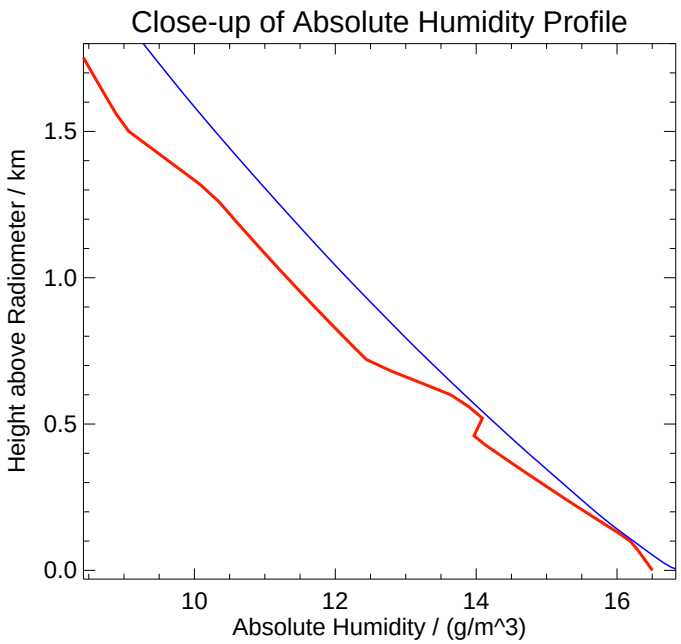
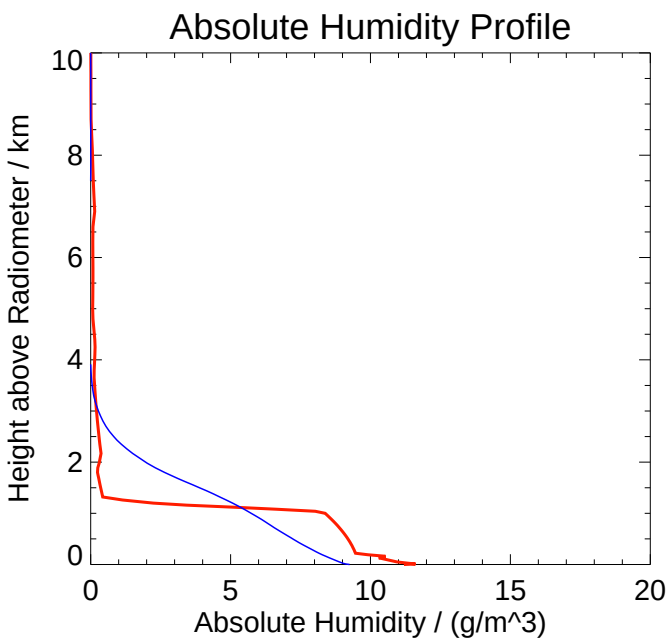

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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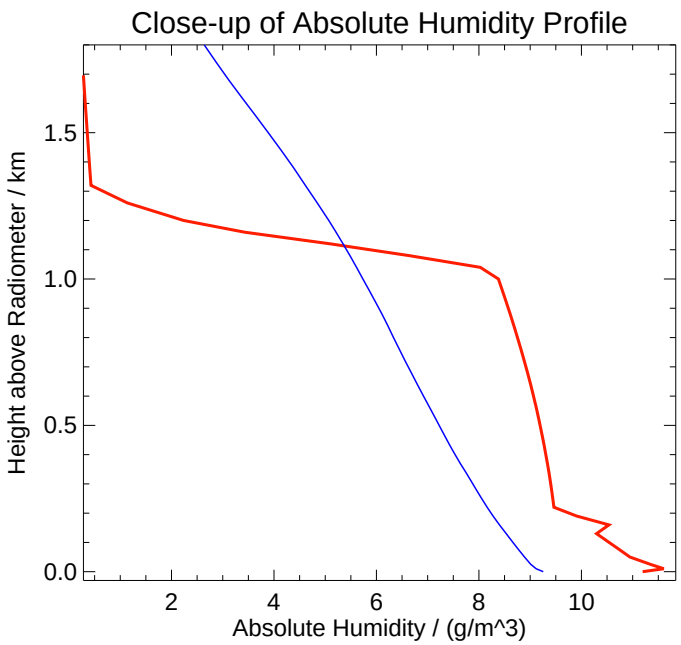
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2
4
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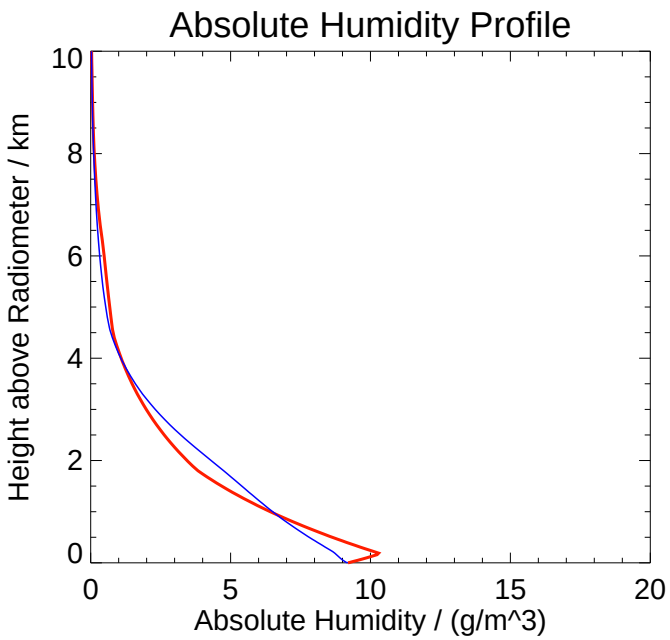
8
10


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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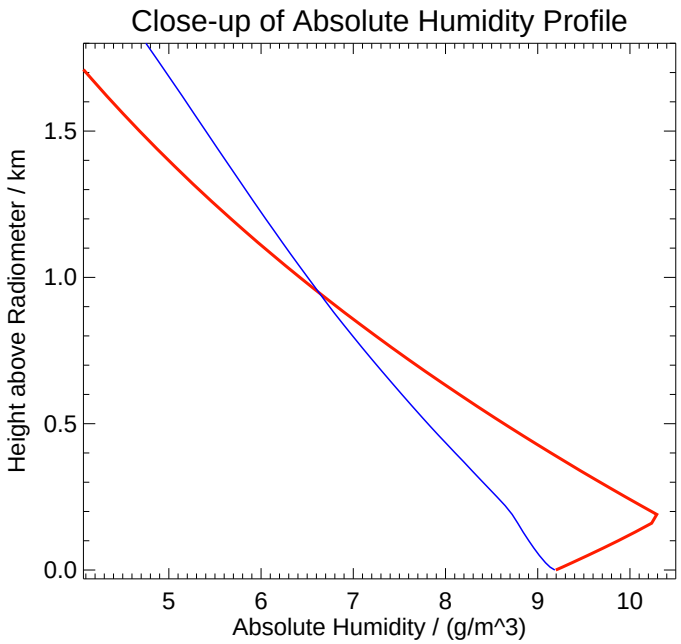
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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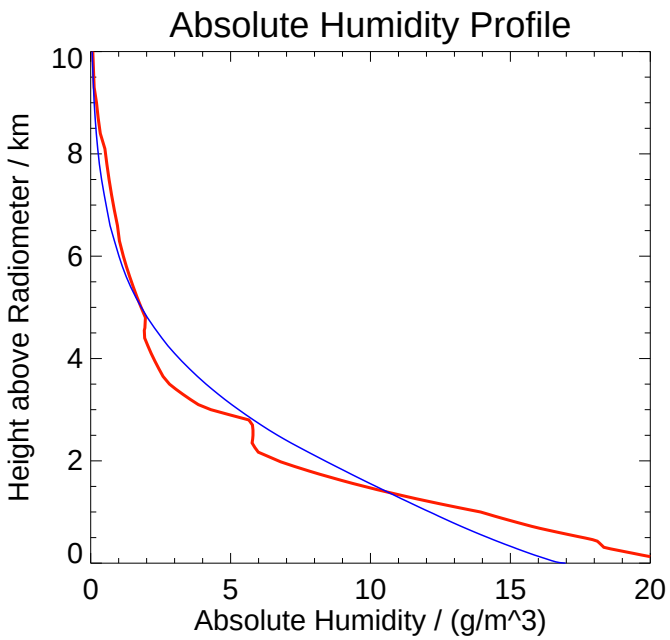
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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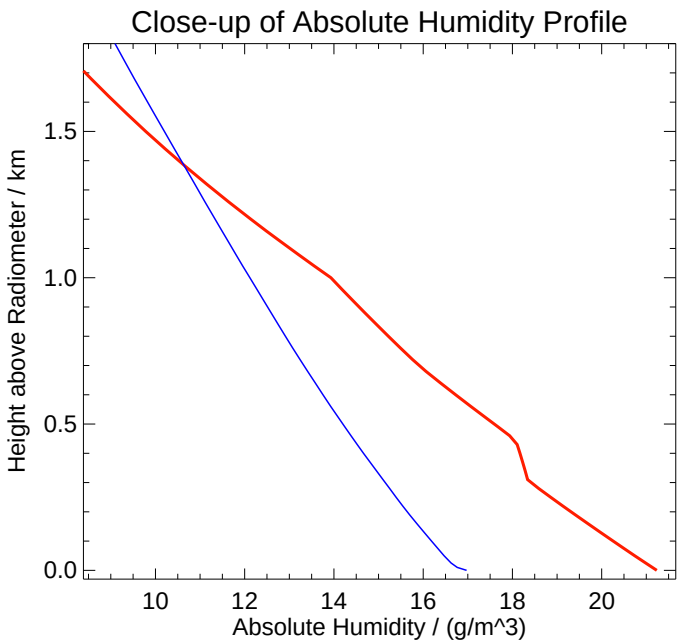
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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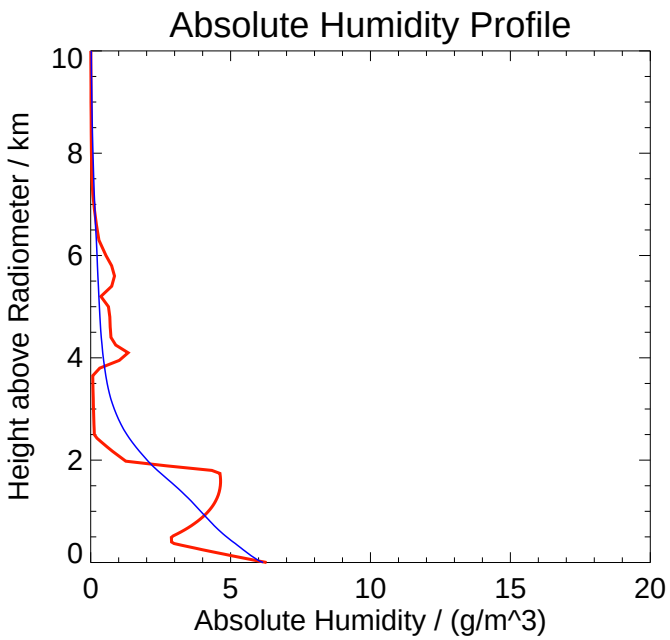
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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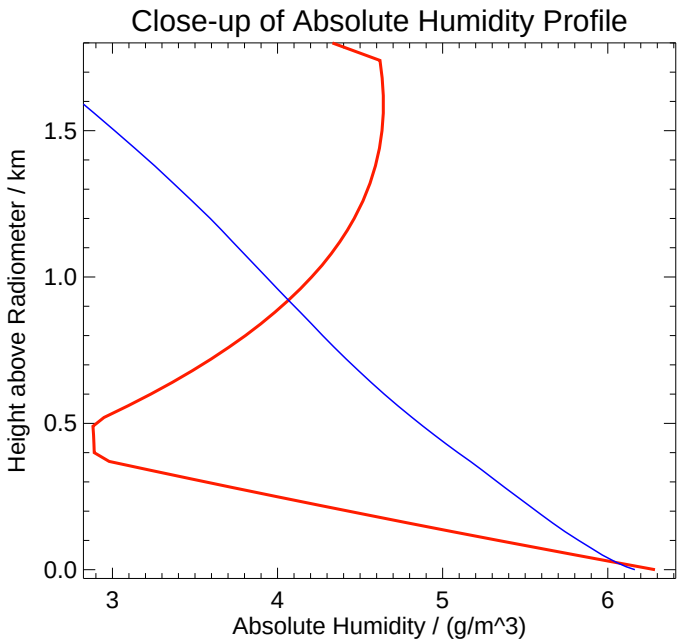
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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0.5
1.0
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3
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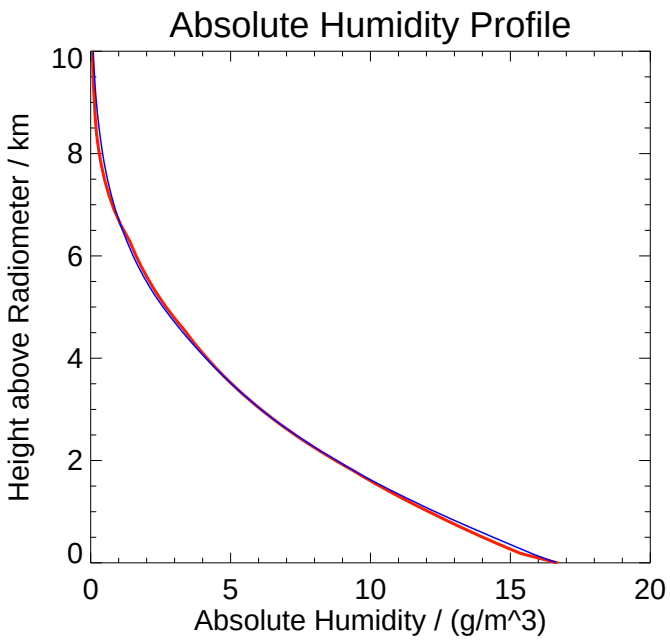
5
6


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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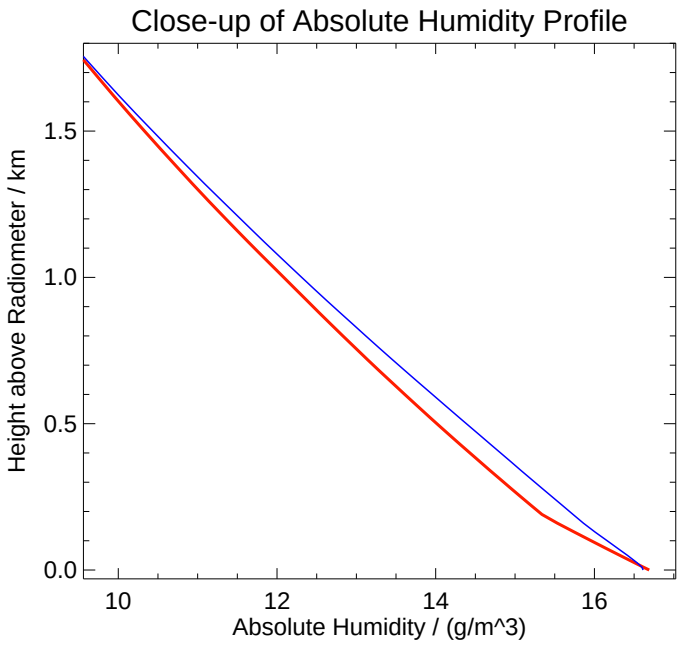
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
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14
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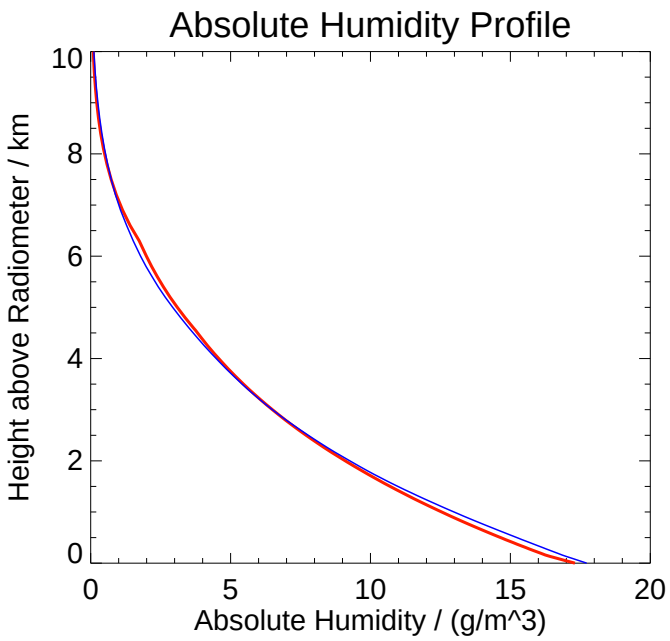
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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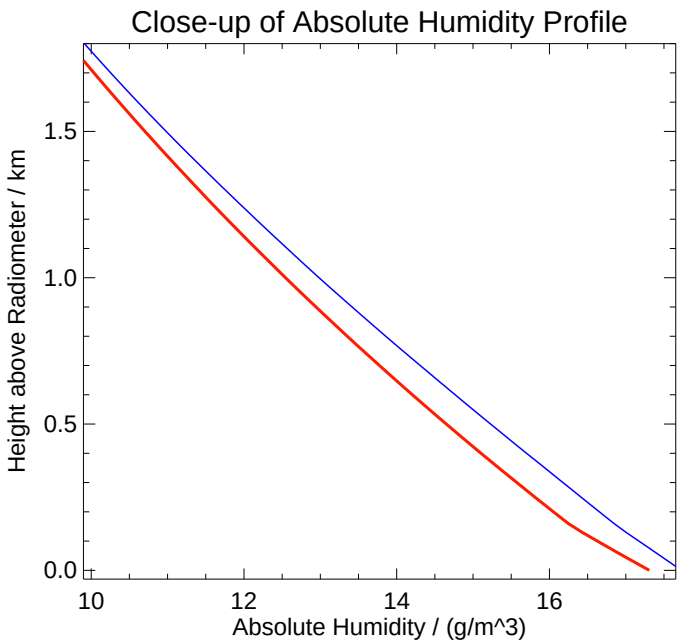
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
14
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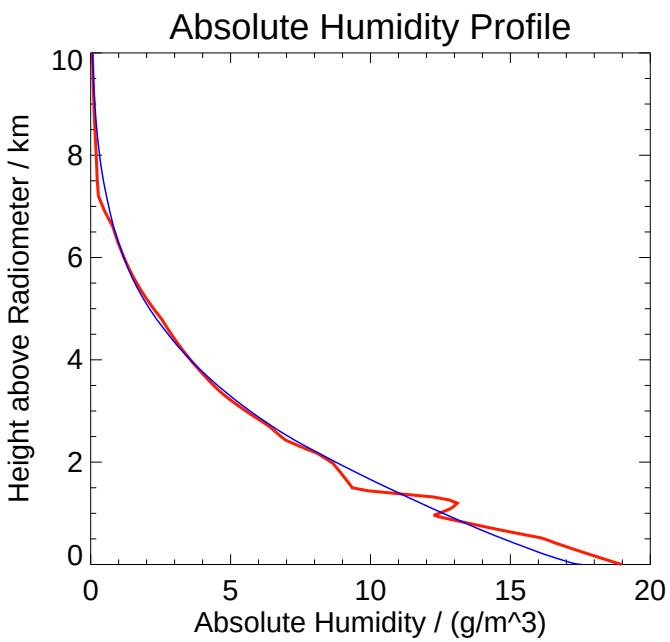
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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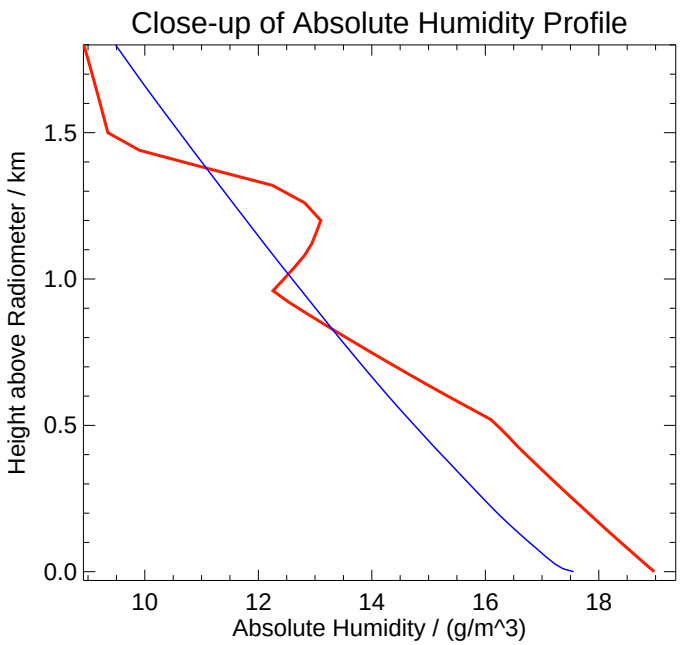
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
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16
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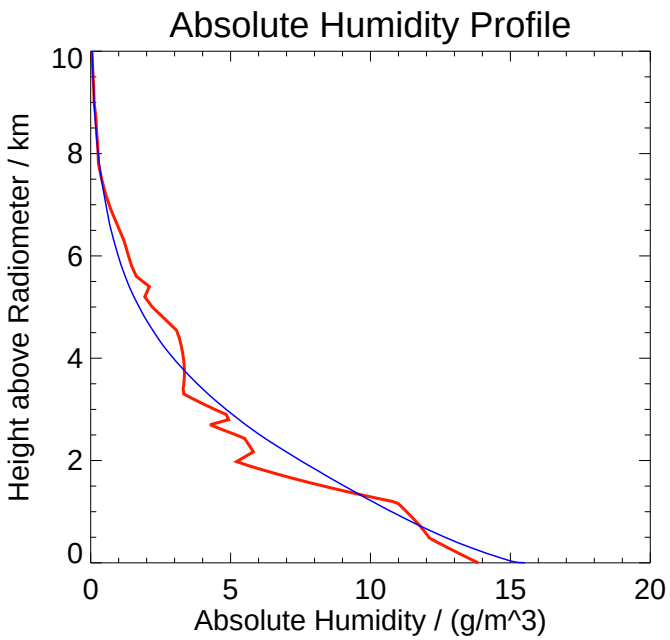
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
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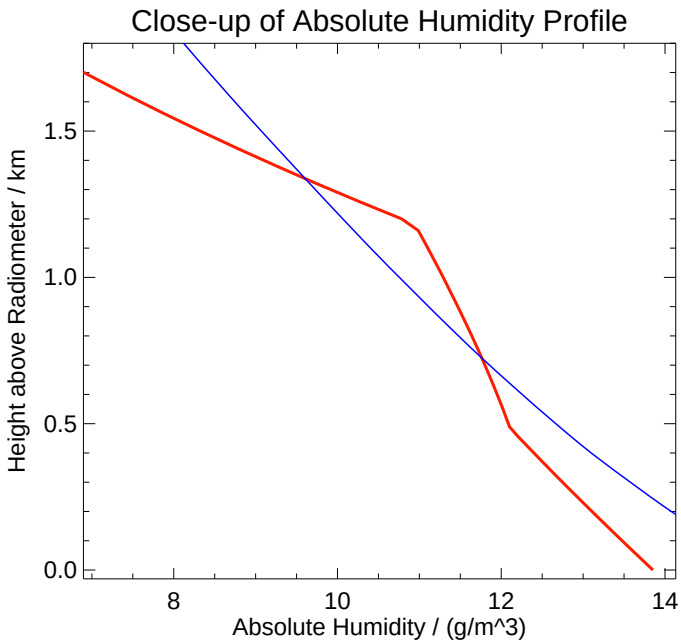
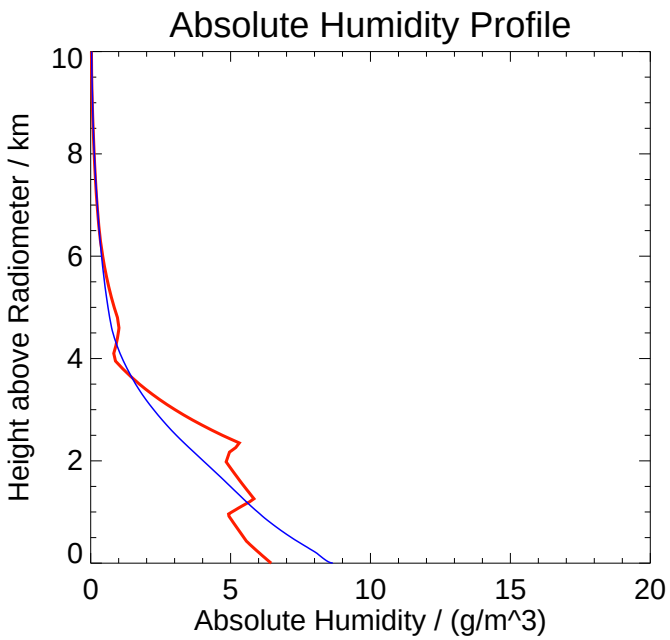

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8
10
12
14


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
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5
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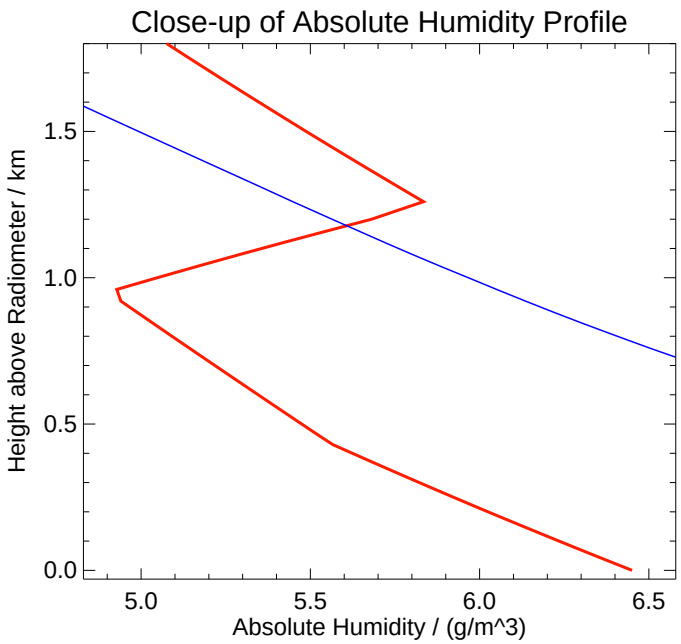
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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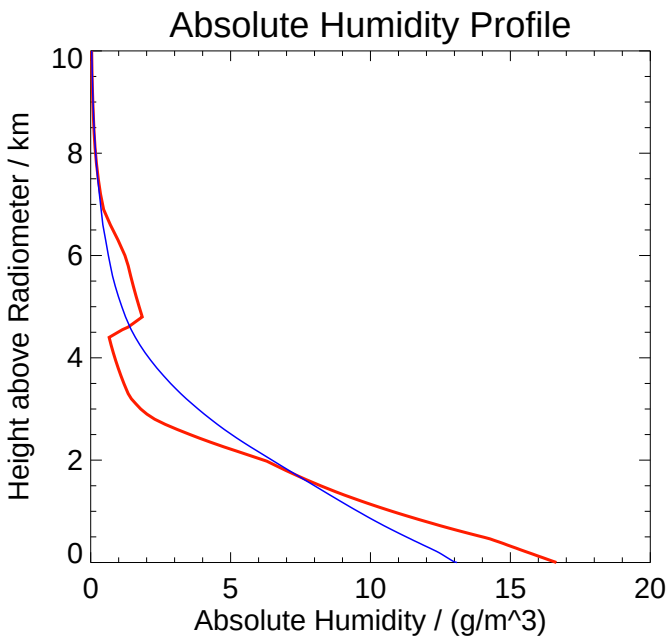
0.5
1.0
1.5
5.0
5.5
6.0
6.5


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
8
10
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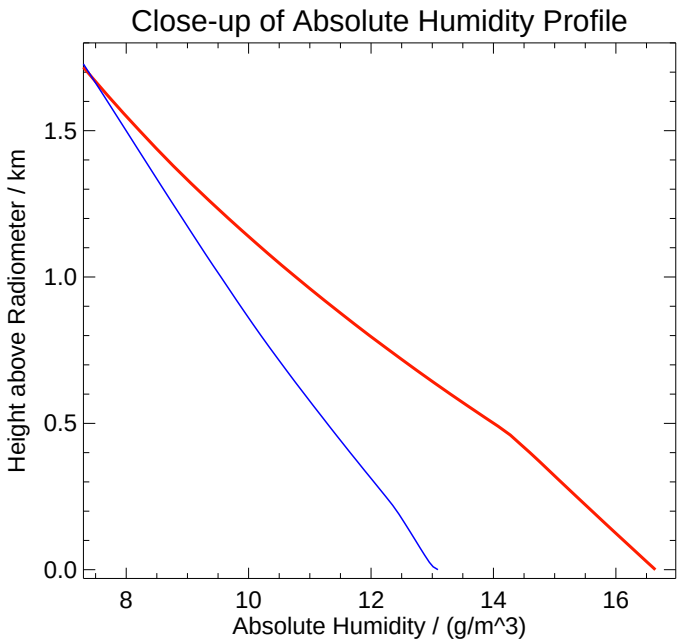
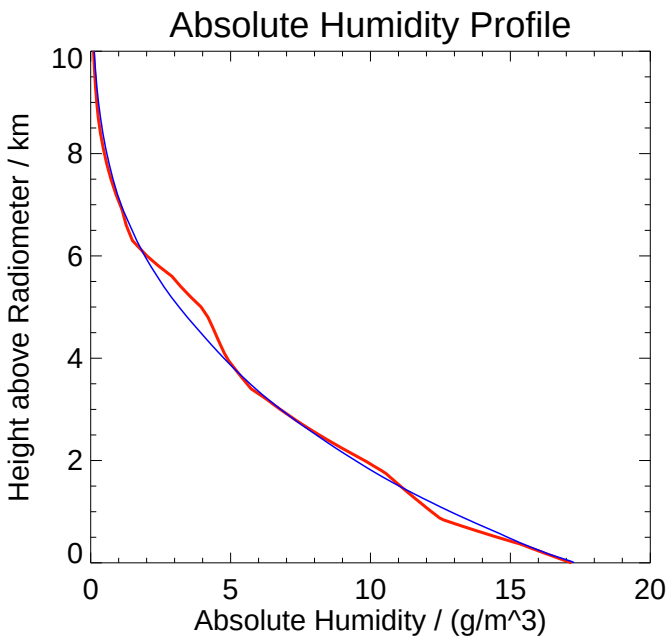
15
20


Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
8
10
12
14
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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6
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0
5
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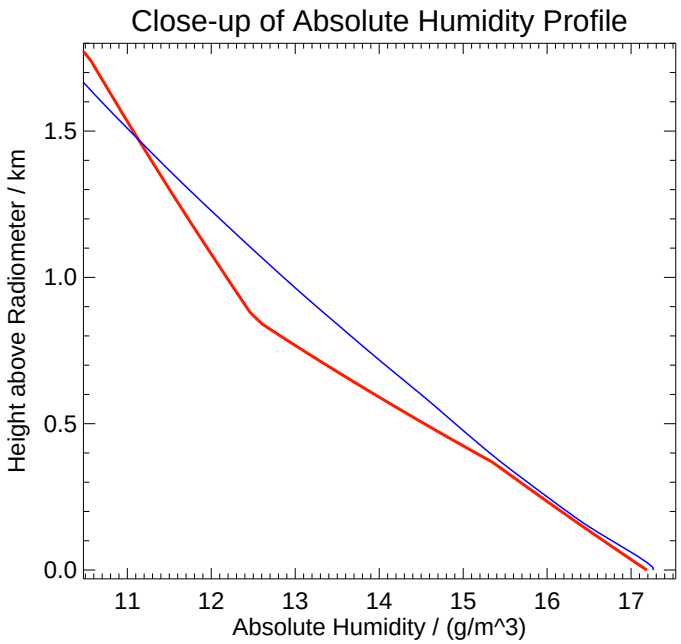
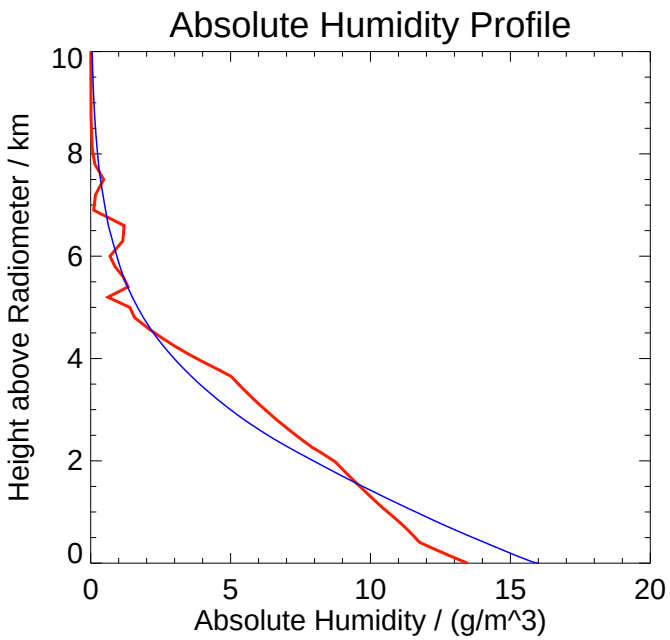

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
11
12
13
14
15
16
17


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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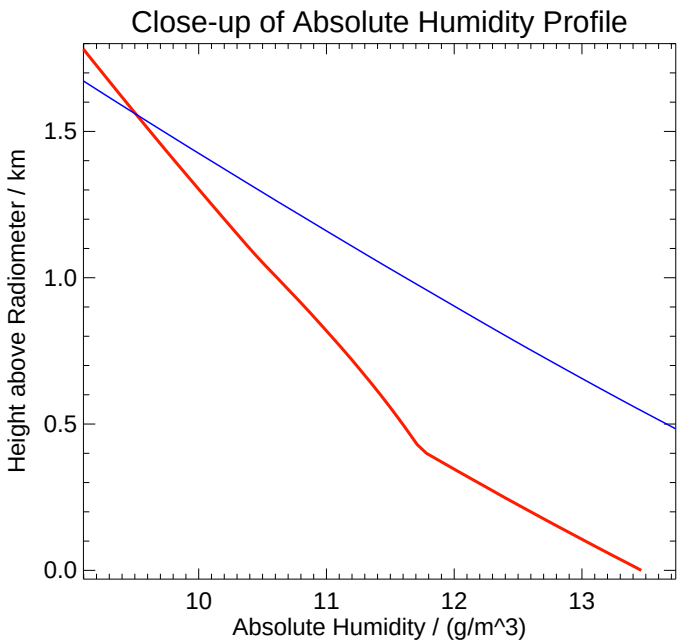
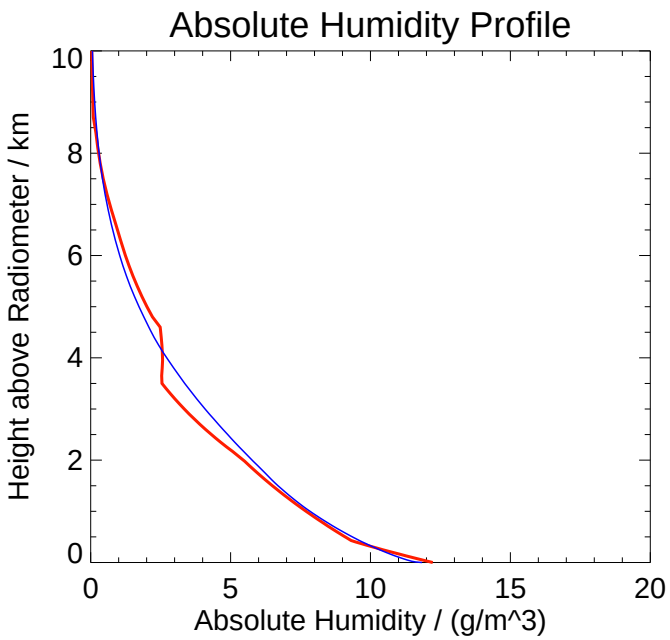

Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
11
12
13


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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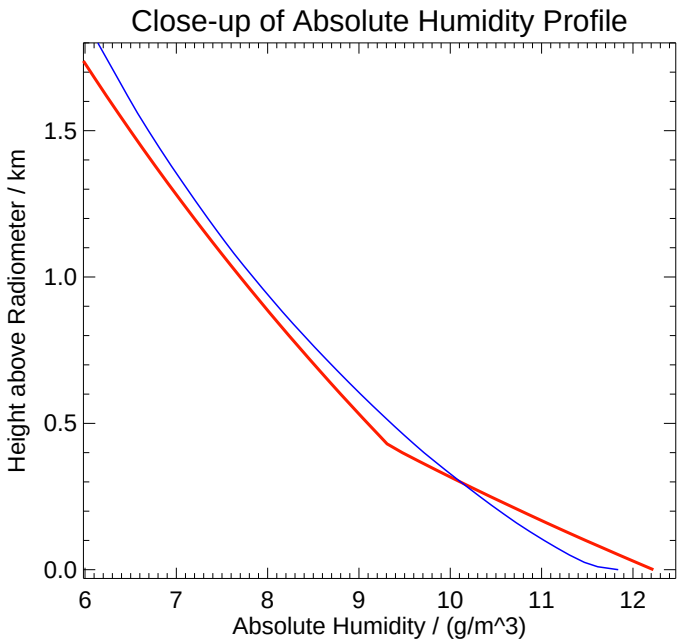
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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7
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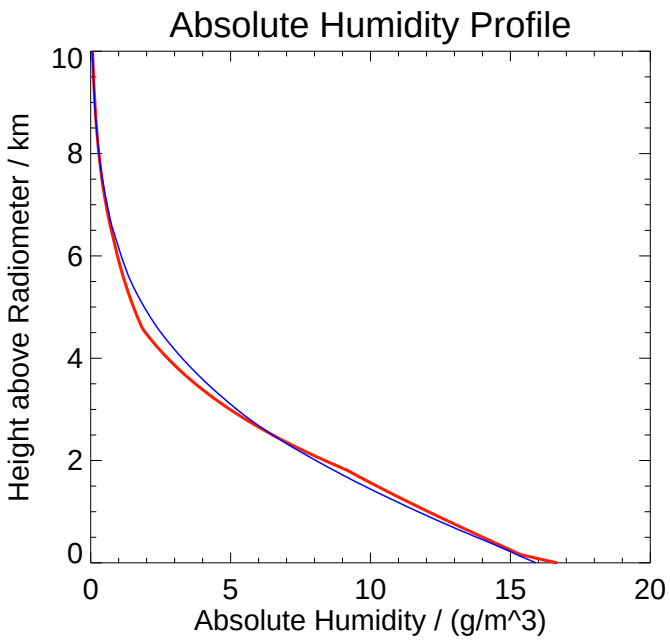
9
10
11
12


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
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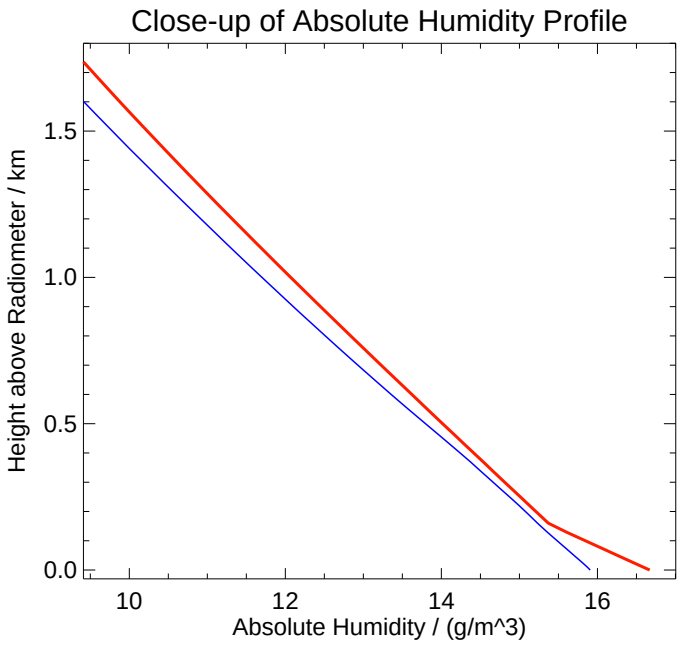
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
10
12
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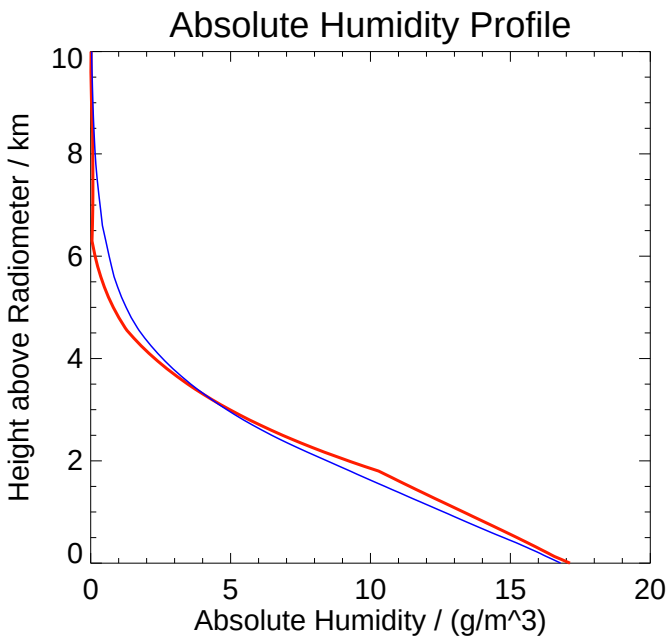
16


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
4
6
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15
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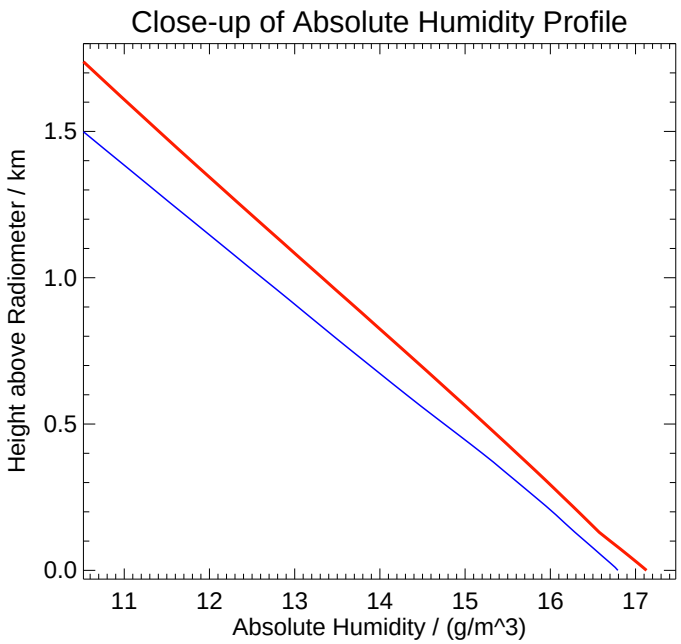
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
11
12
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16
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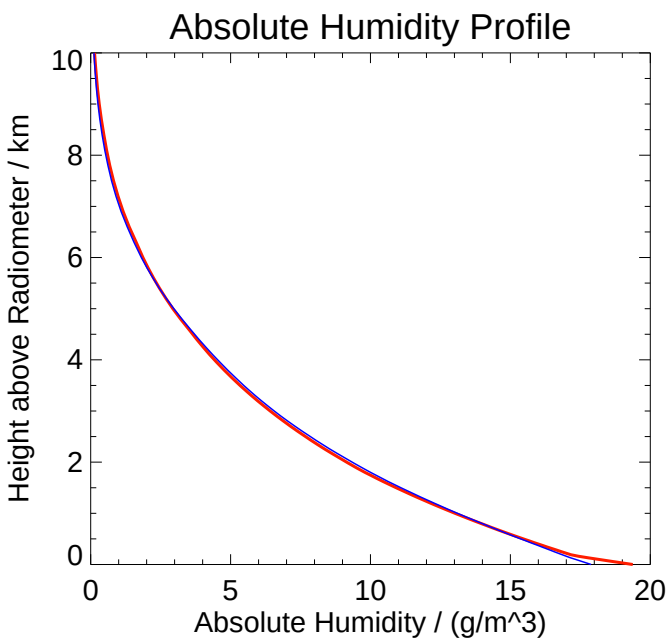
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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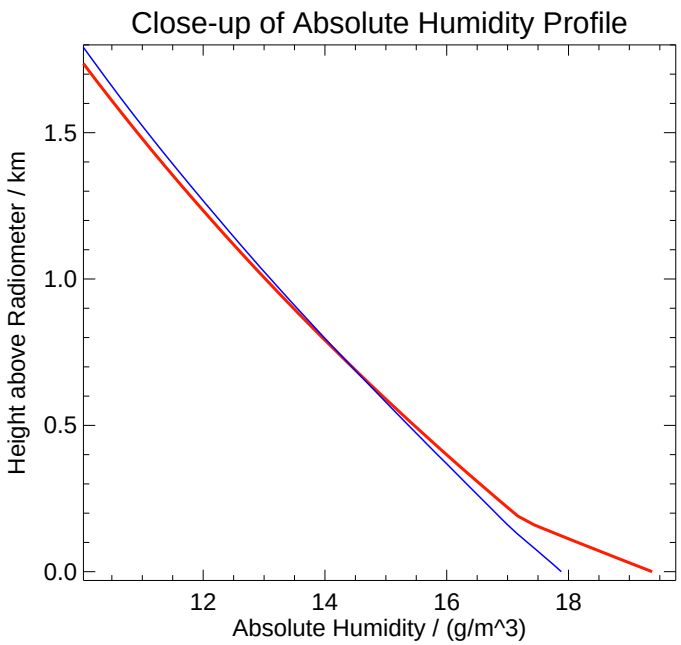
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
12
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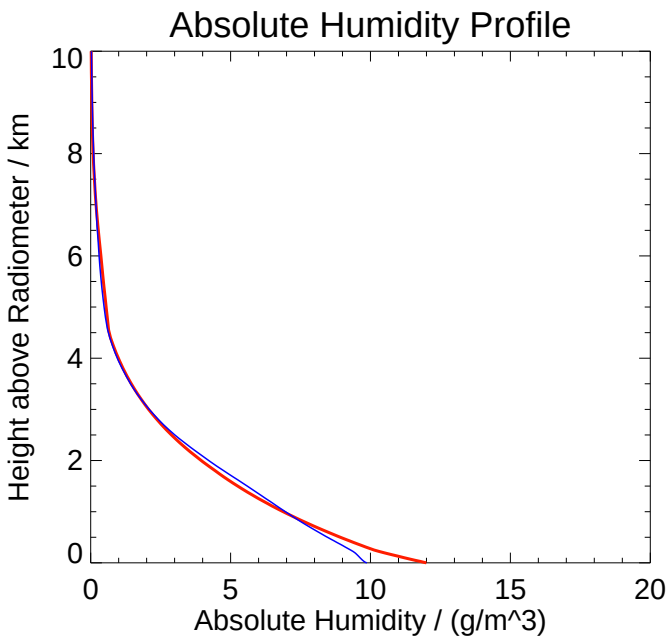
16
18


Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0
2
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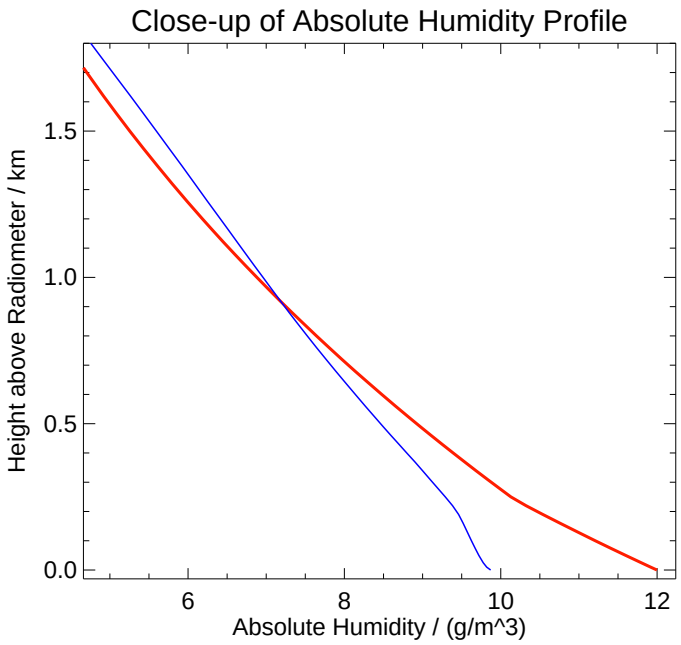
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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1.0
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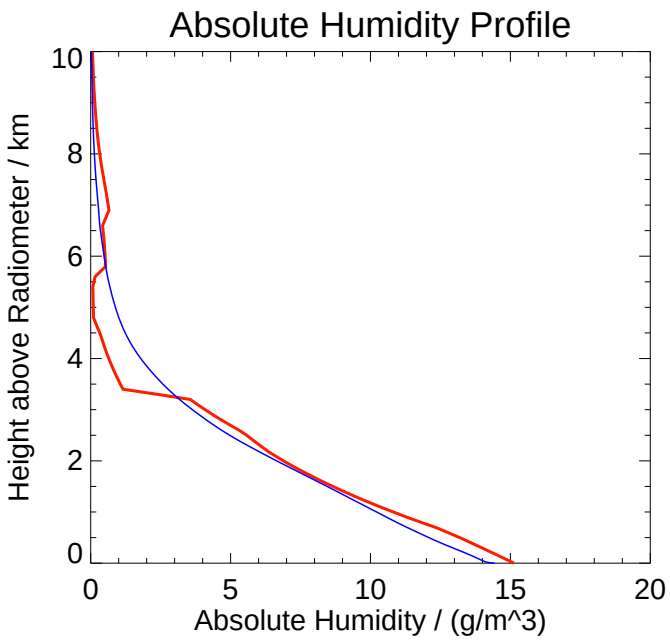
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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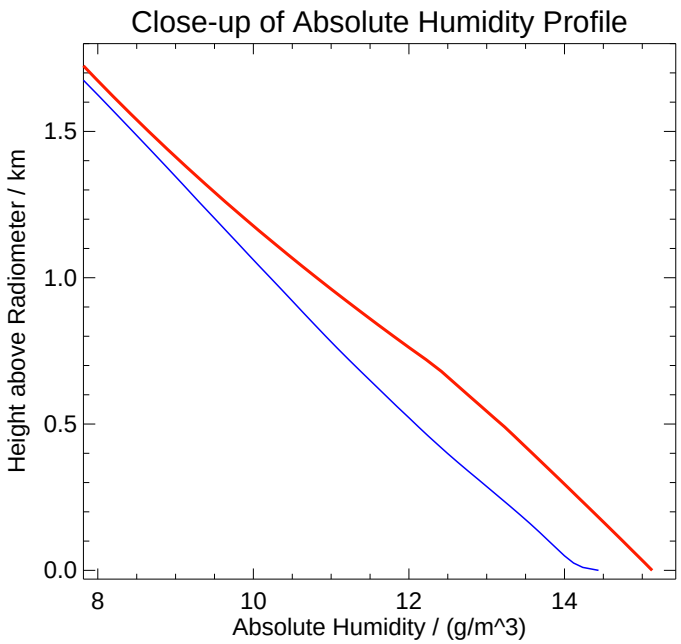
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
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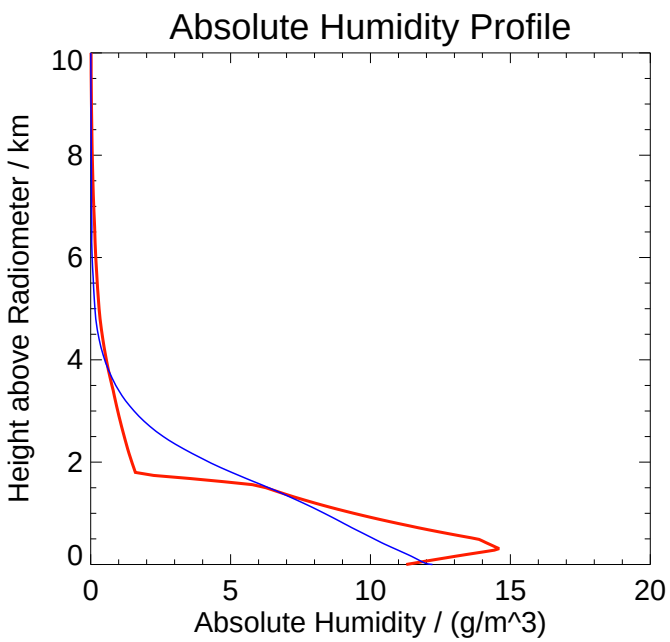
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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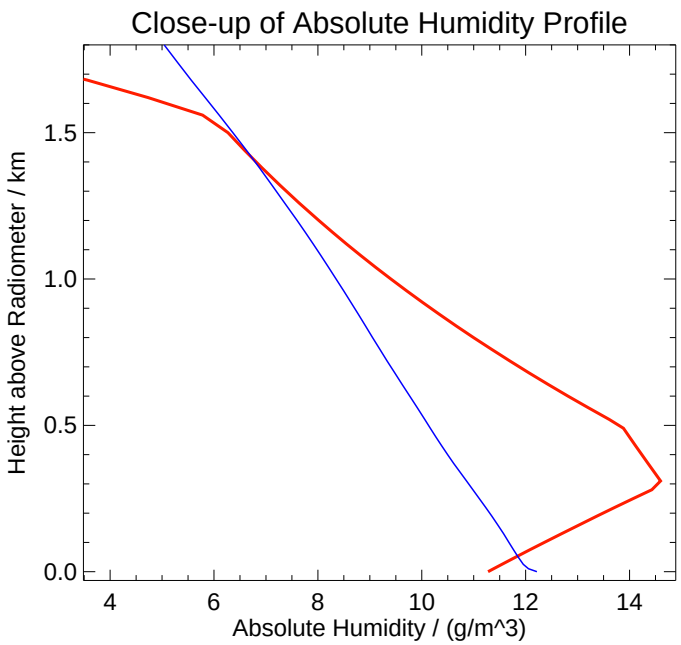
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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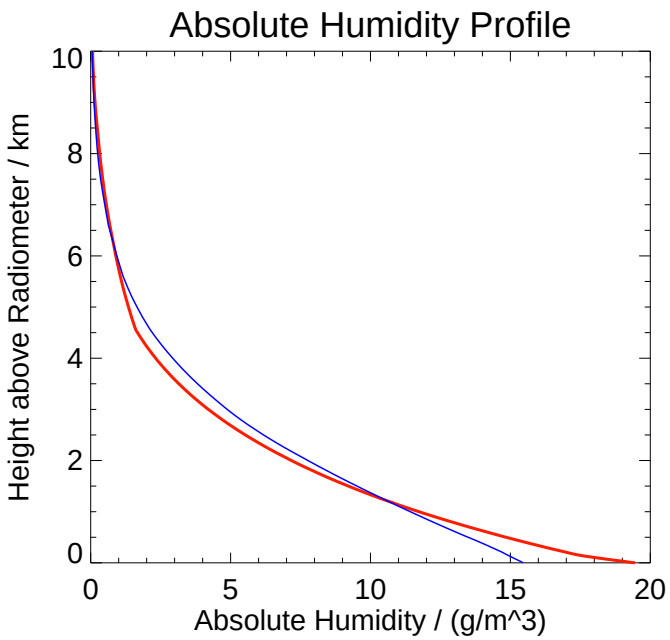
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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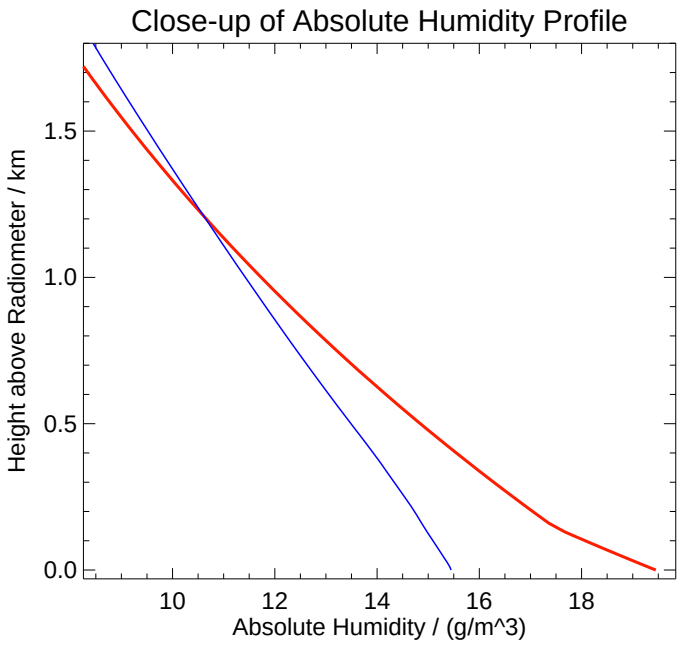
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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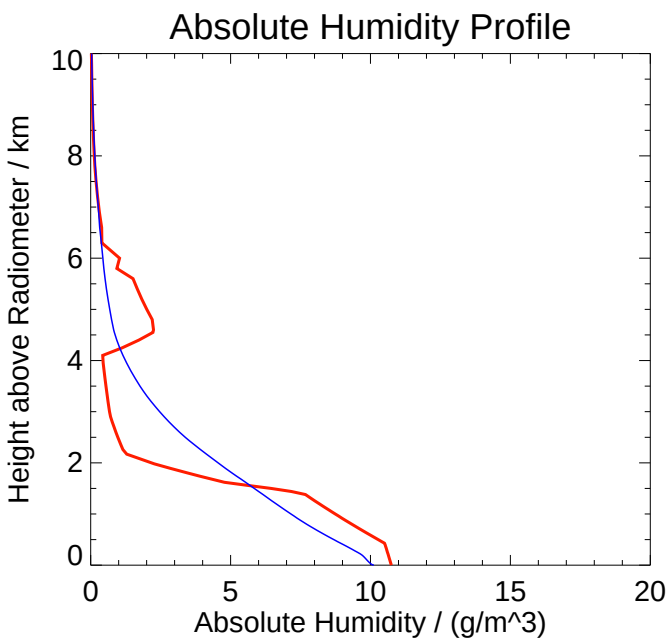
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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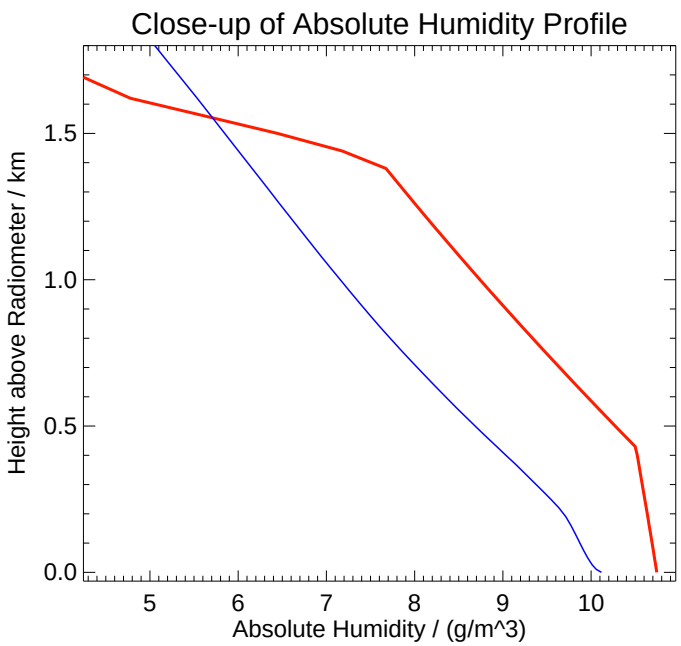
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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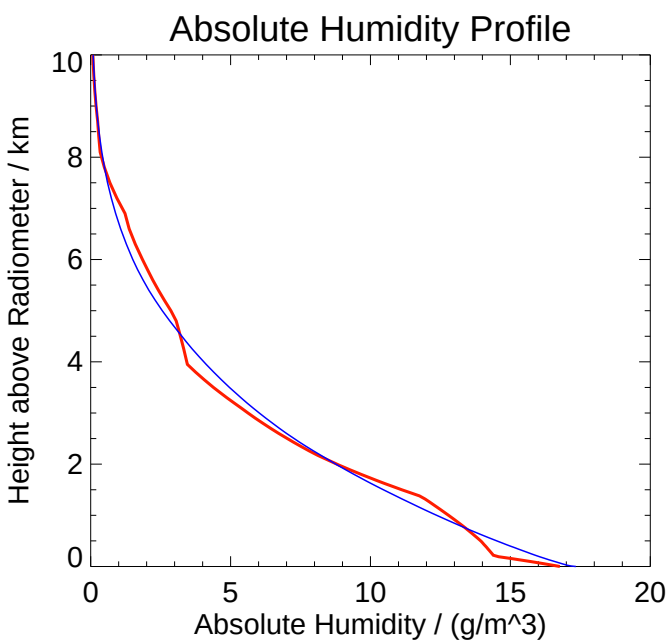
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Height above Radiometer / km
Absolute Humidity / (g/m^3)
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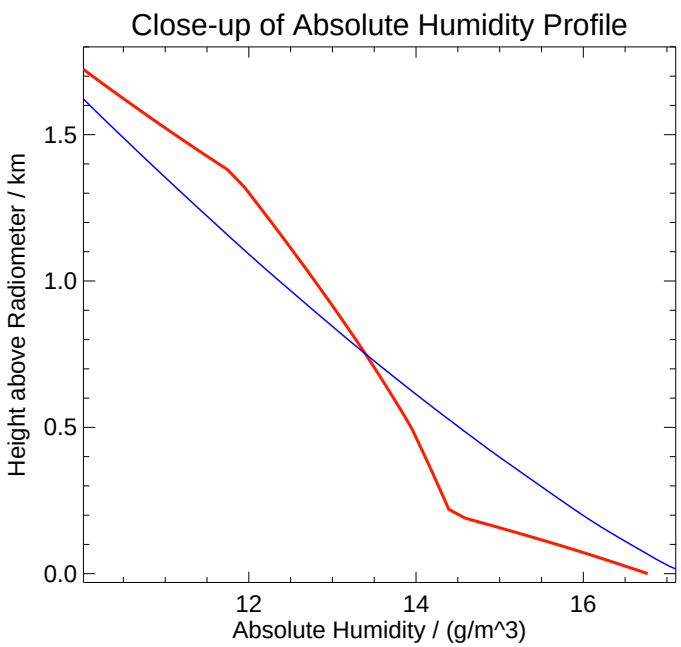
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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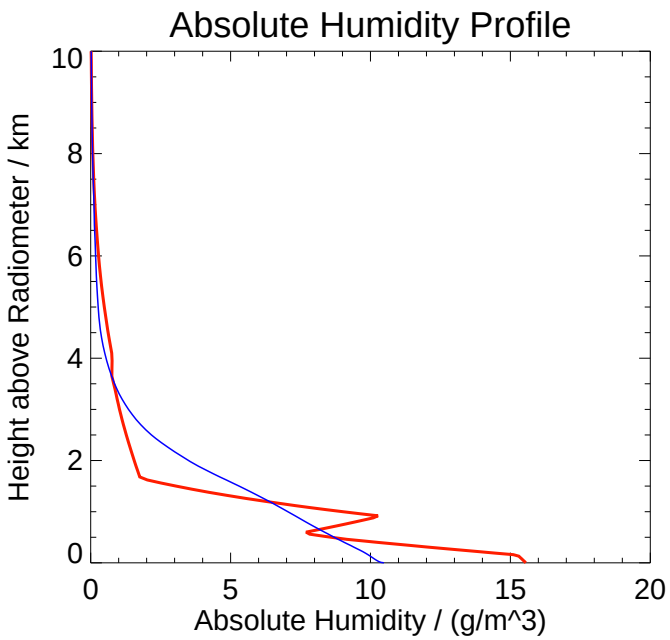
Absolute Humidity Profile
Height above Radiometer / km
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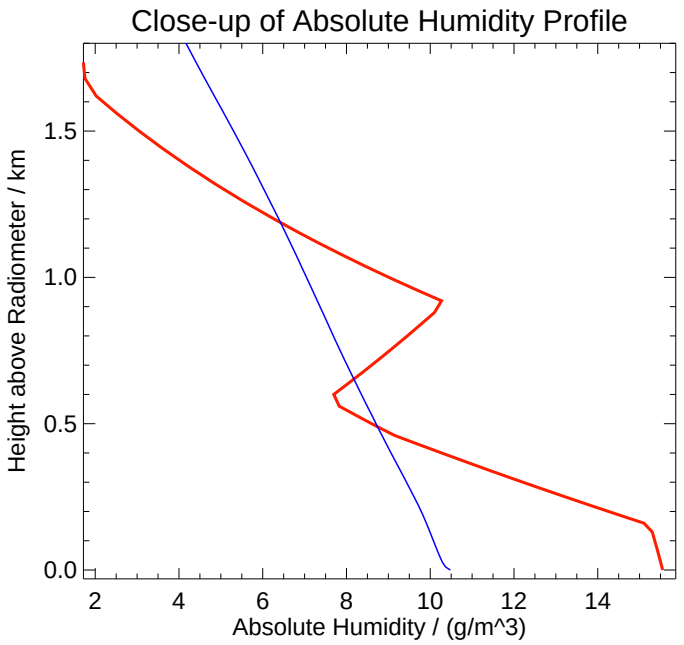
Close-up of Absolute Humidity Profile
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Absolute Humidity / (g/m^3)
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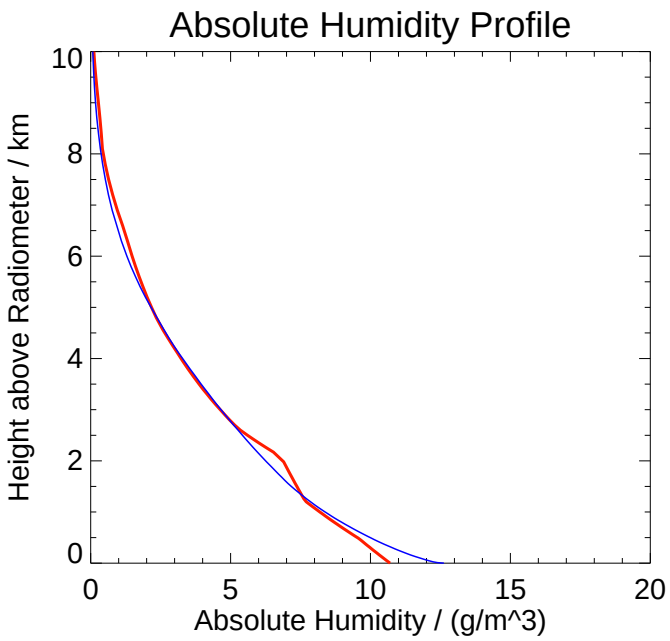
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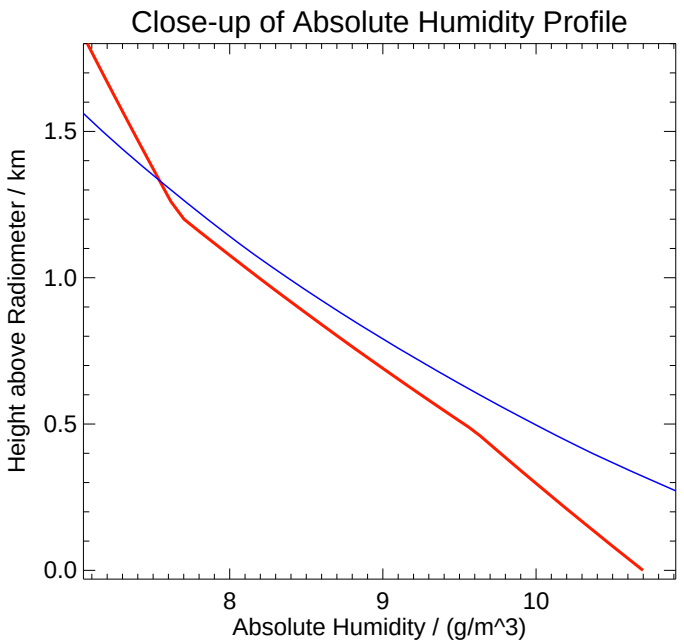
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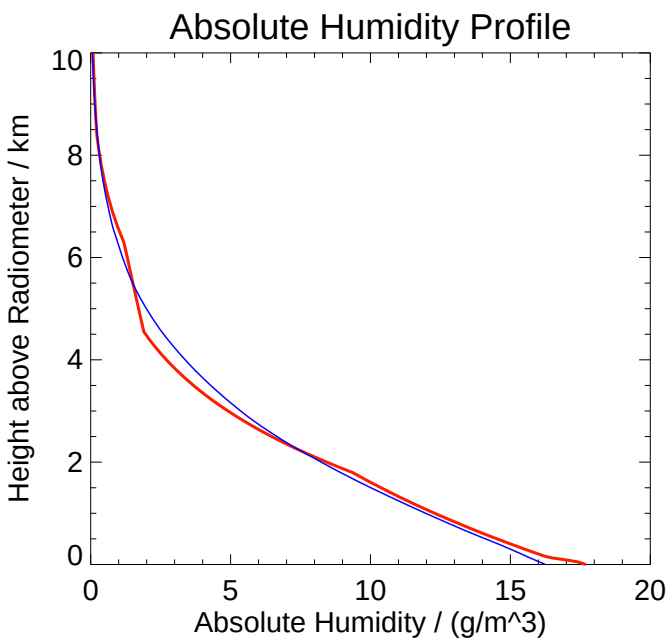
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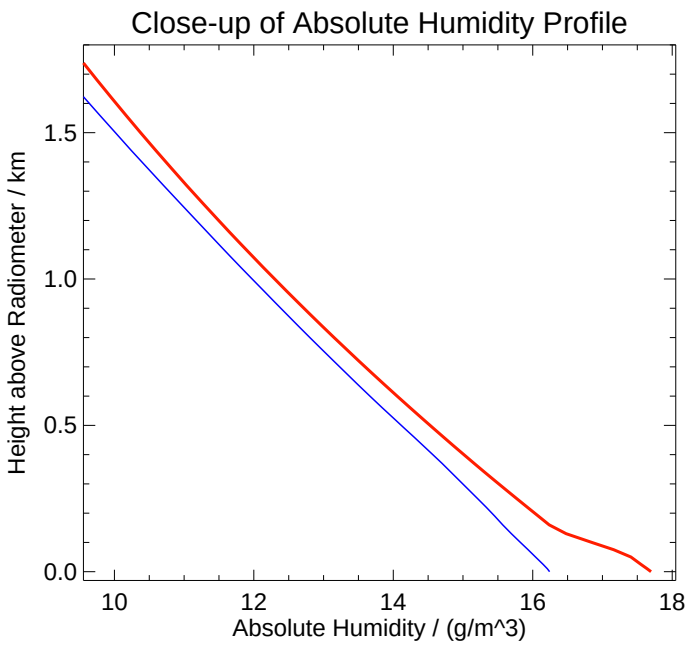
Close-up of Absolute Humidity Profile
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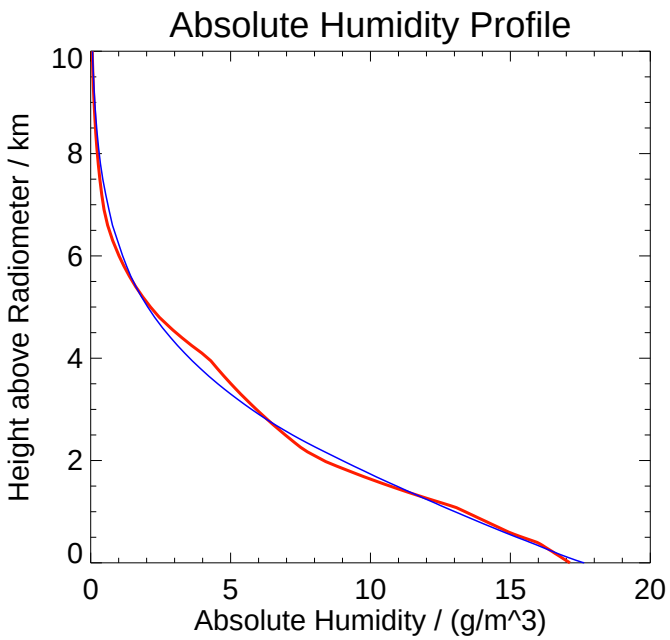
Absolute Humidity Profile
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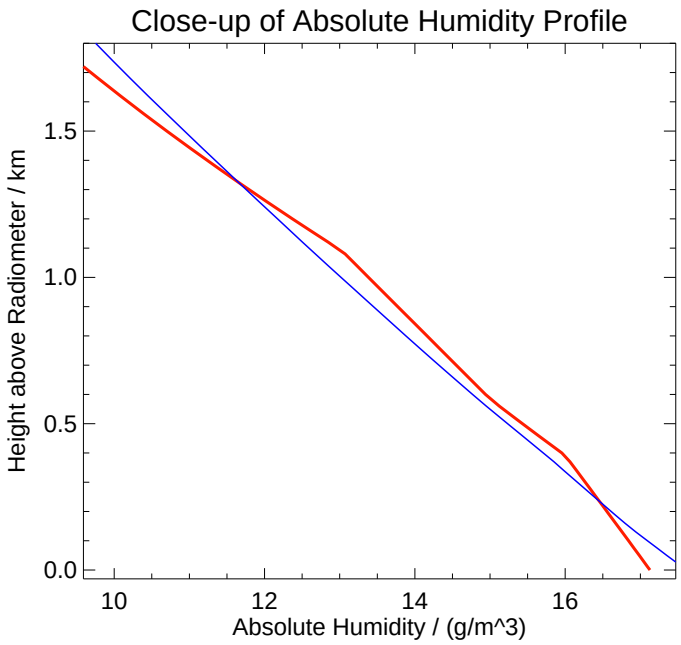
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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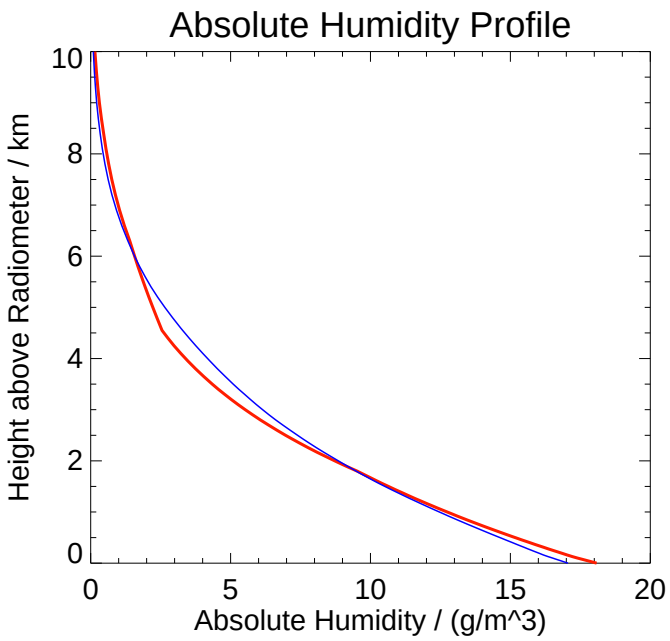
Absolute Humidity Profile
Height above Radiometer / km
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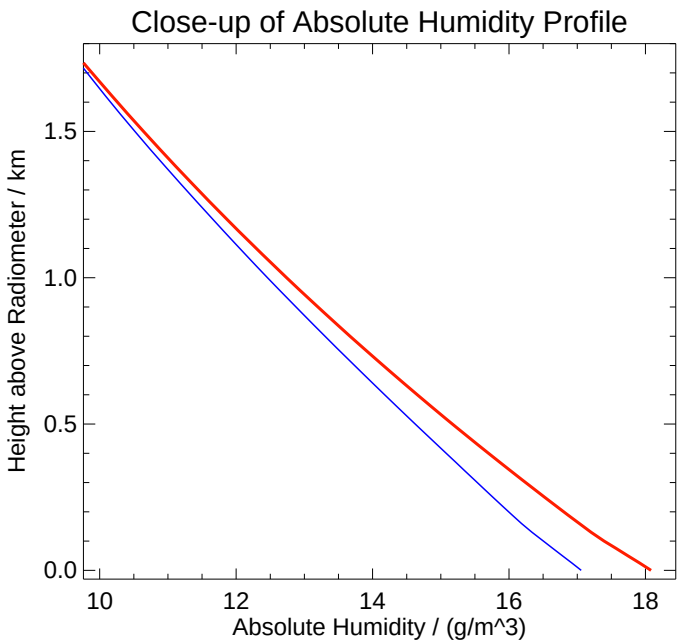
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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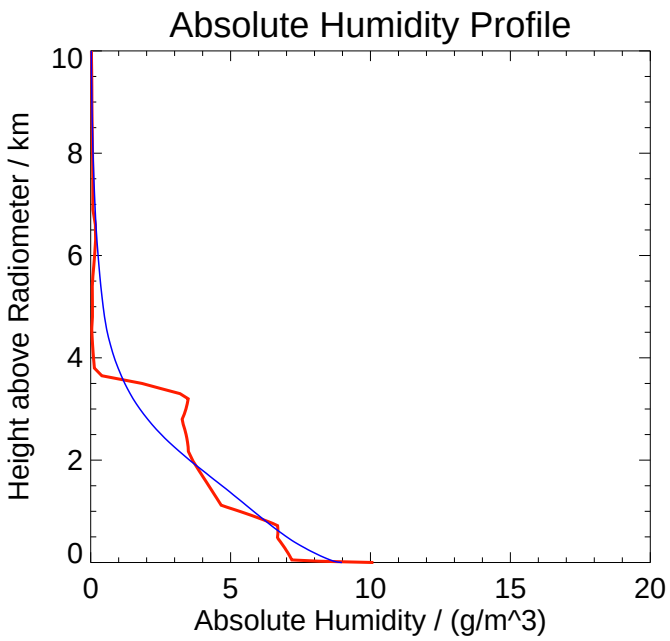
Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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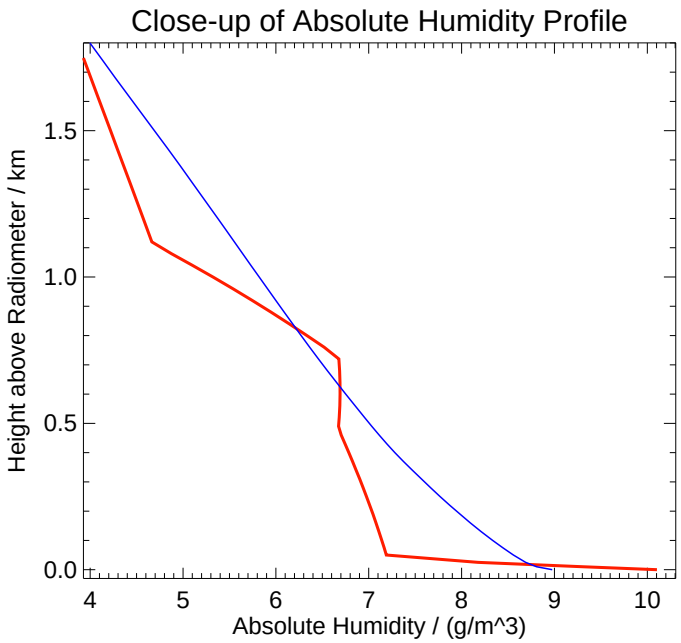
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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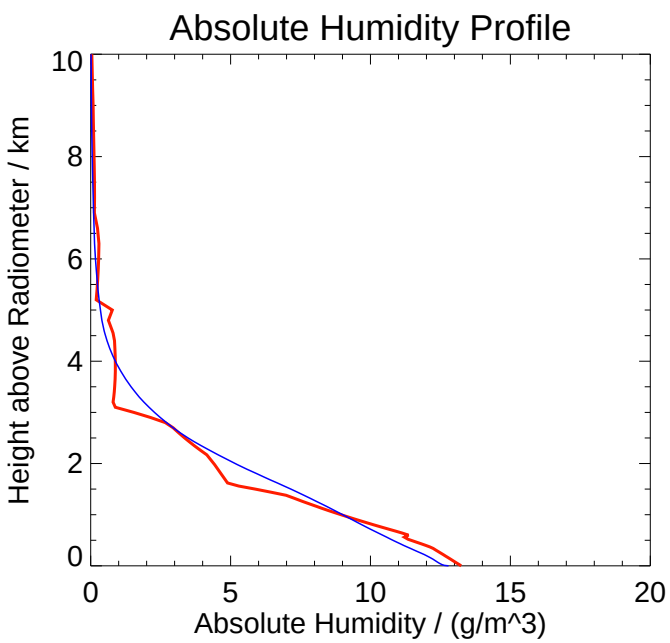
Absolute Humidity Profile
Height above Radiometer / km
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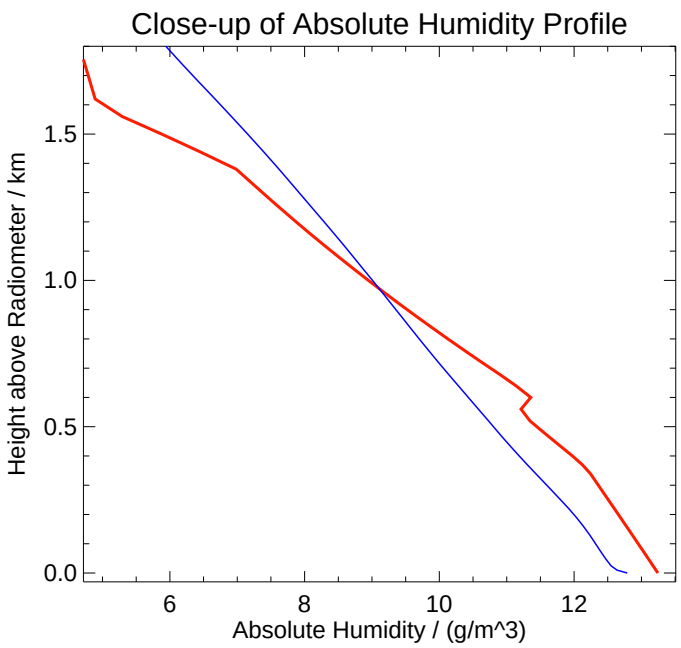
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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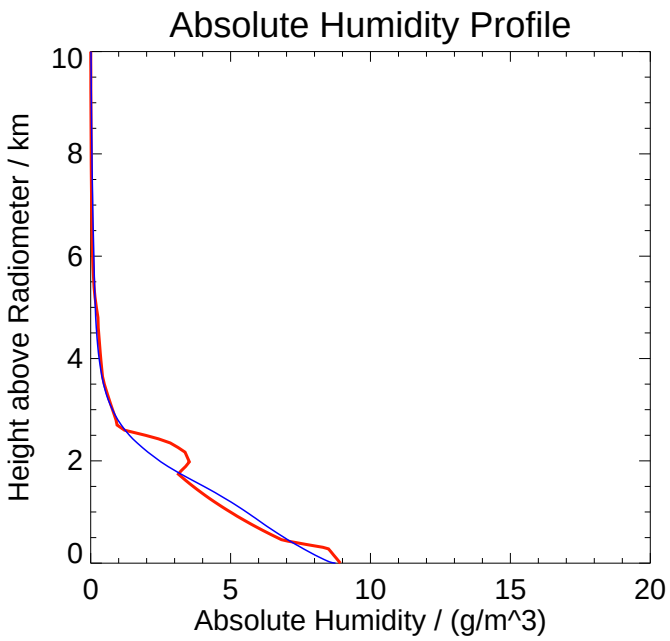
Absolute Humidity Profile
Height above Radiometer / km
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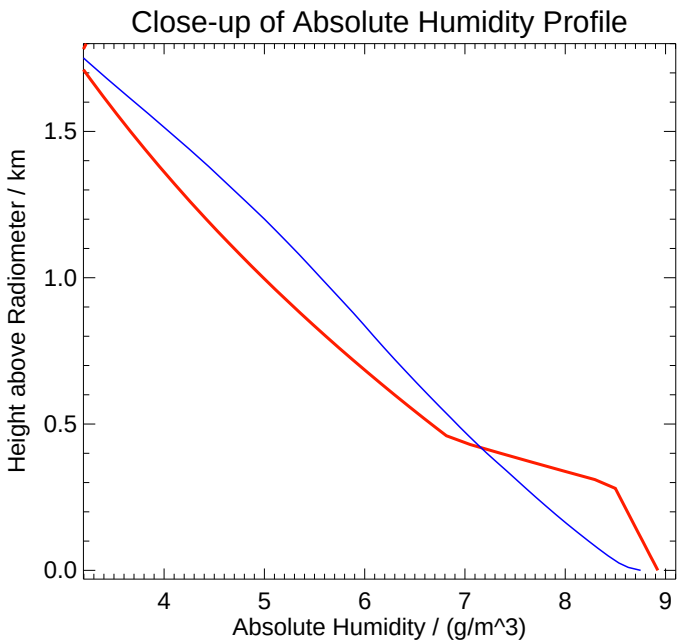
Close-up of Absolute Humidity Profile
Height above Radiometer / km
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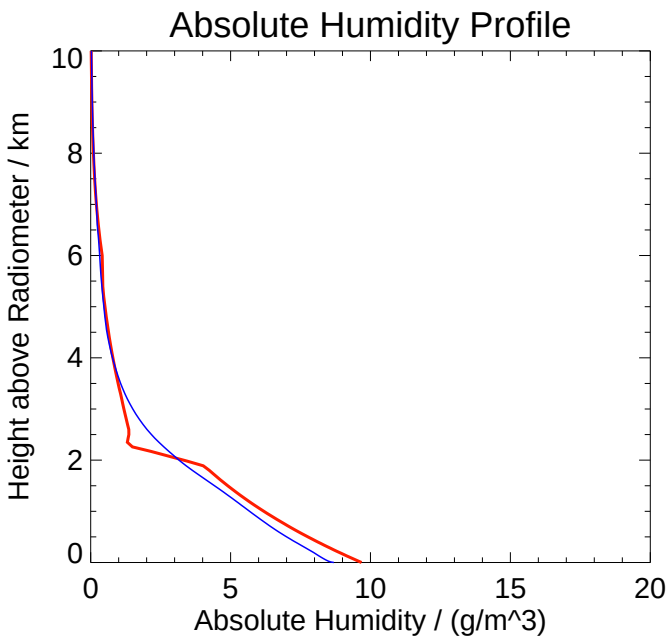
Absolute Humidity Profile
Height above Radiometer / km
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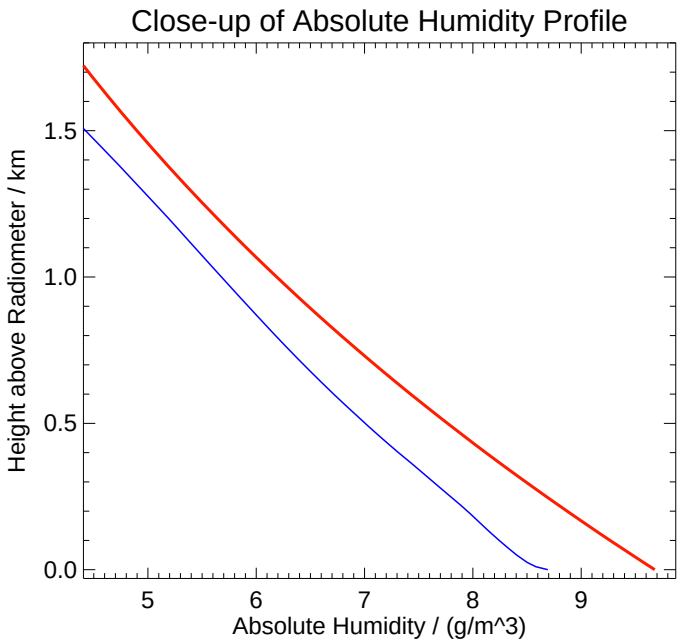
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
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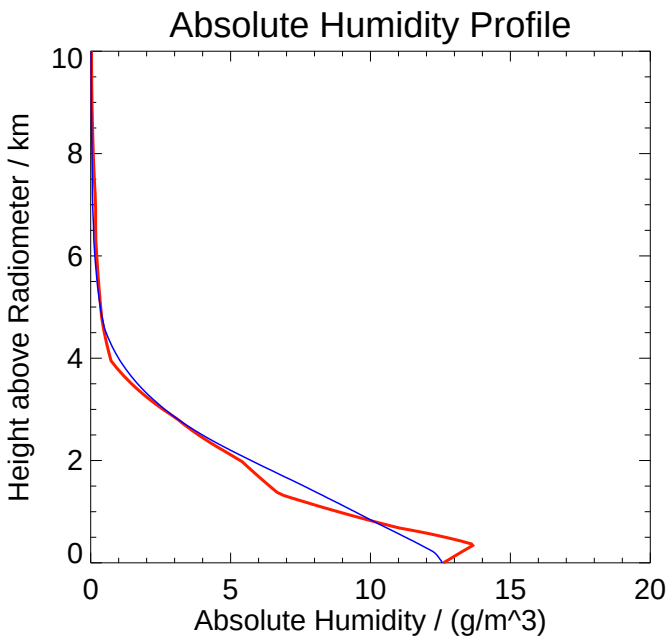
Absolute Humidity Profile
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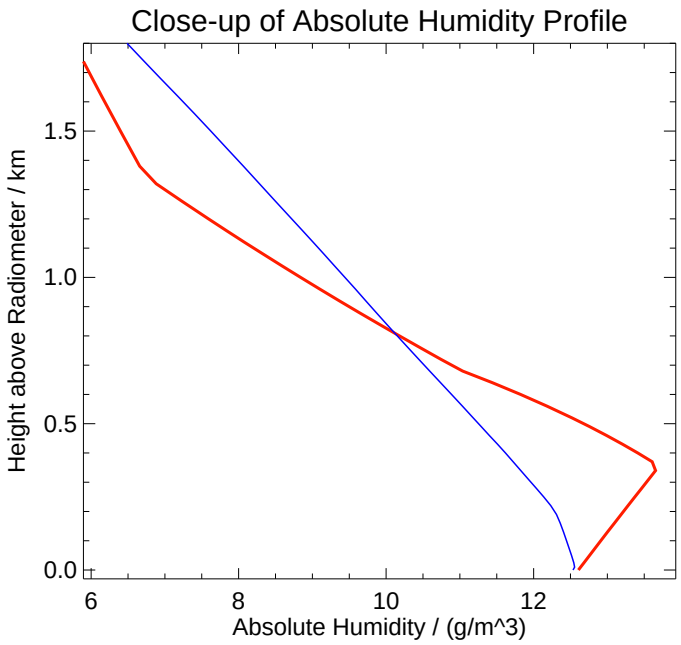
Close-up of Absolute Humidity Profile
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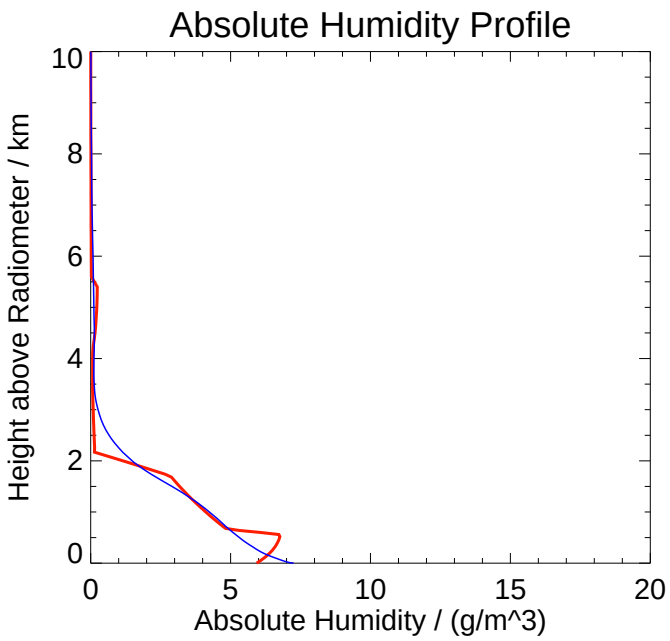
Absolute Humidity Profile
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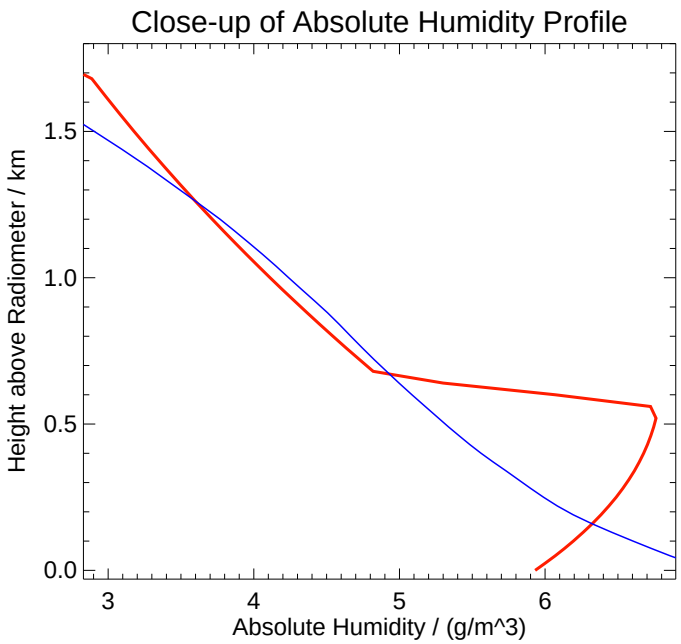
Close-up of Absolute Humidity Profile
Height above Radiometer / km
Absolute Humidity / (g/m^3)
0.0
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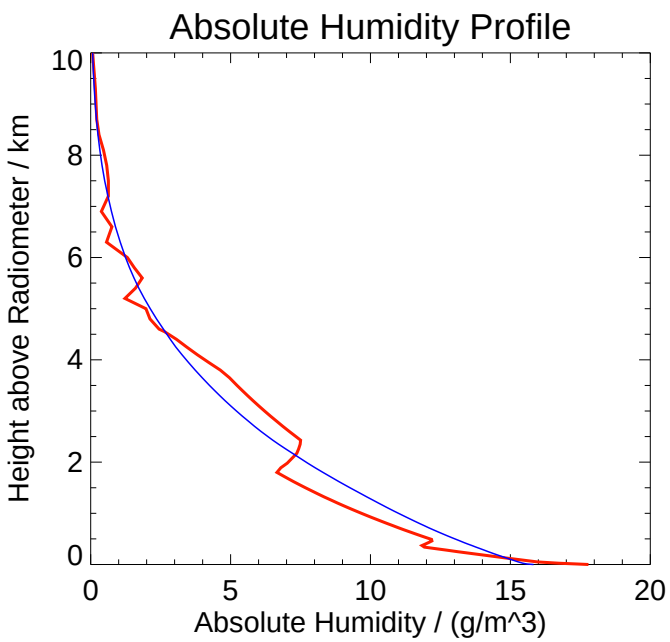
Absolute Humidity Profile
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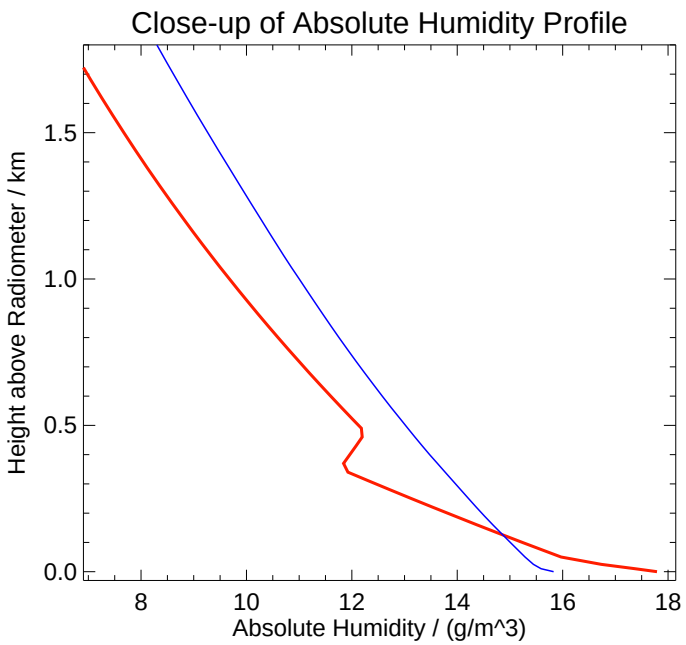
Close-up of Absolute Humidity Profile
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0.0
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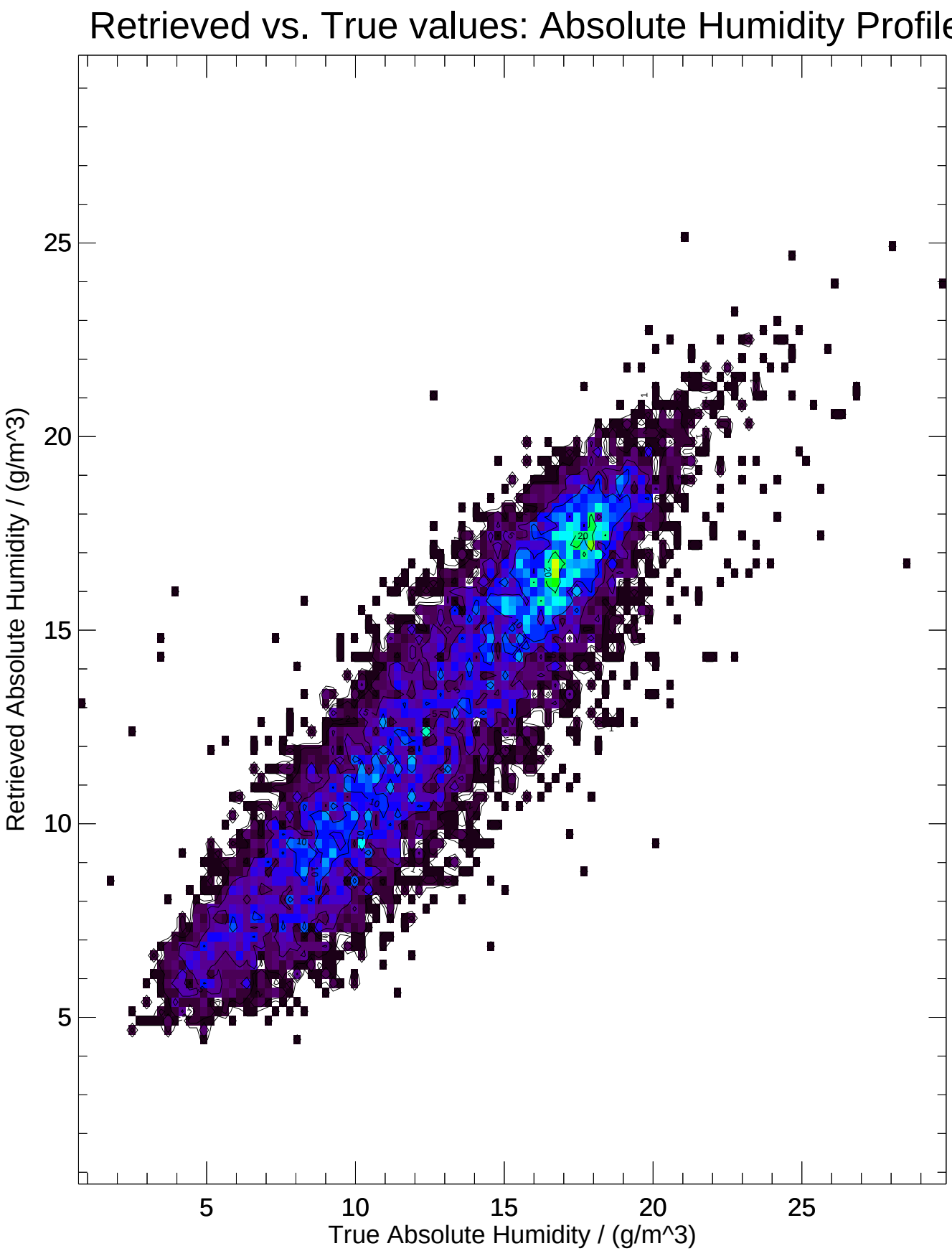
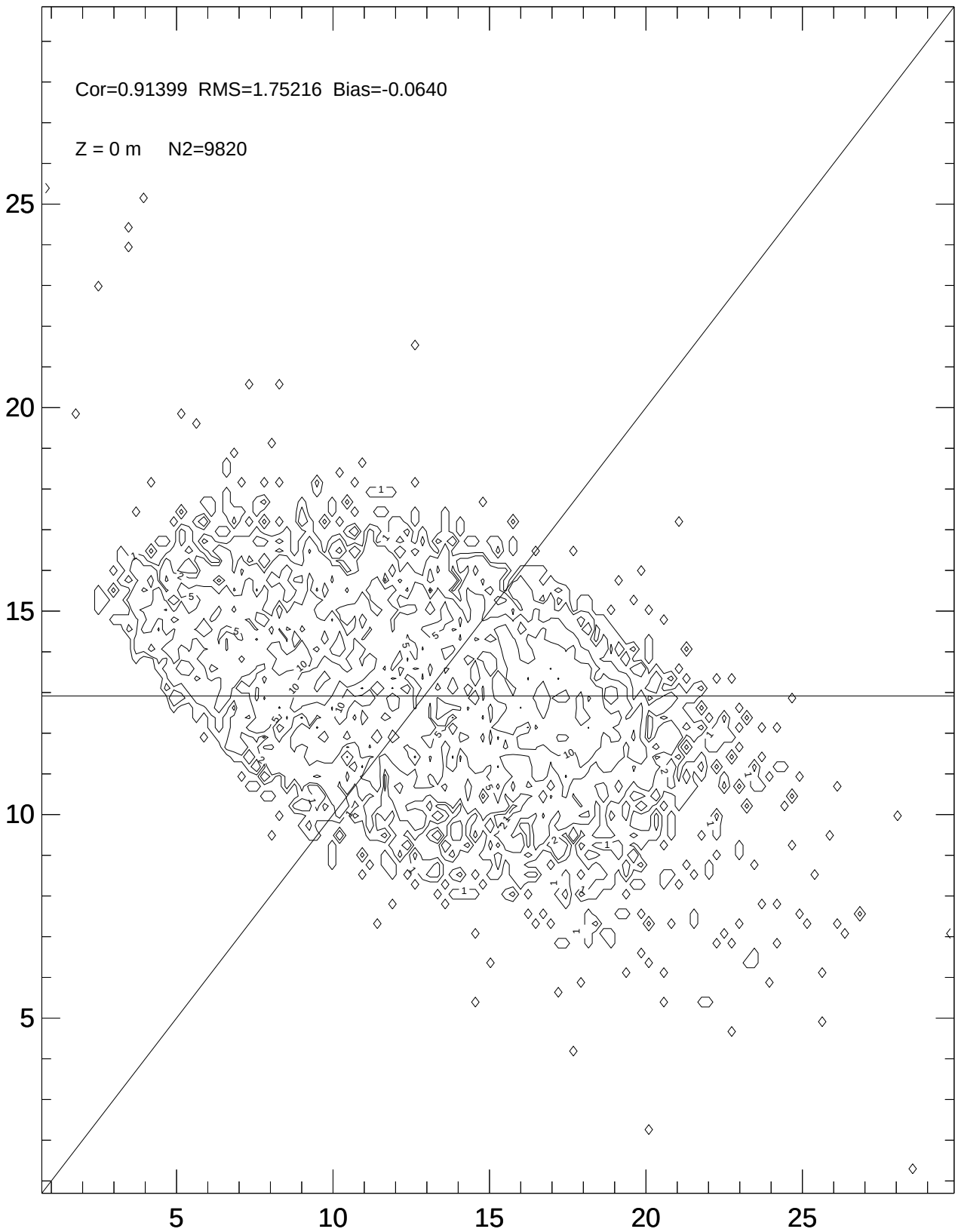
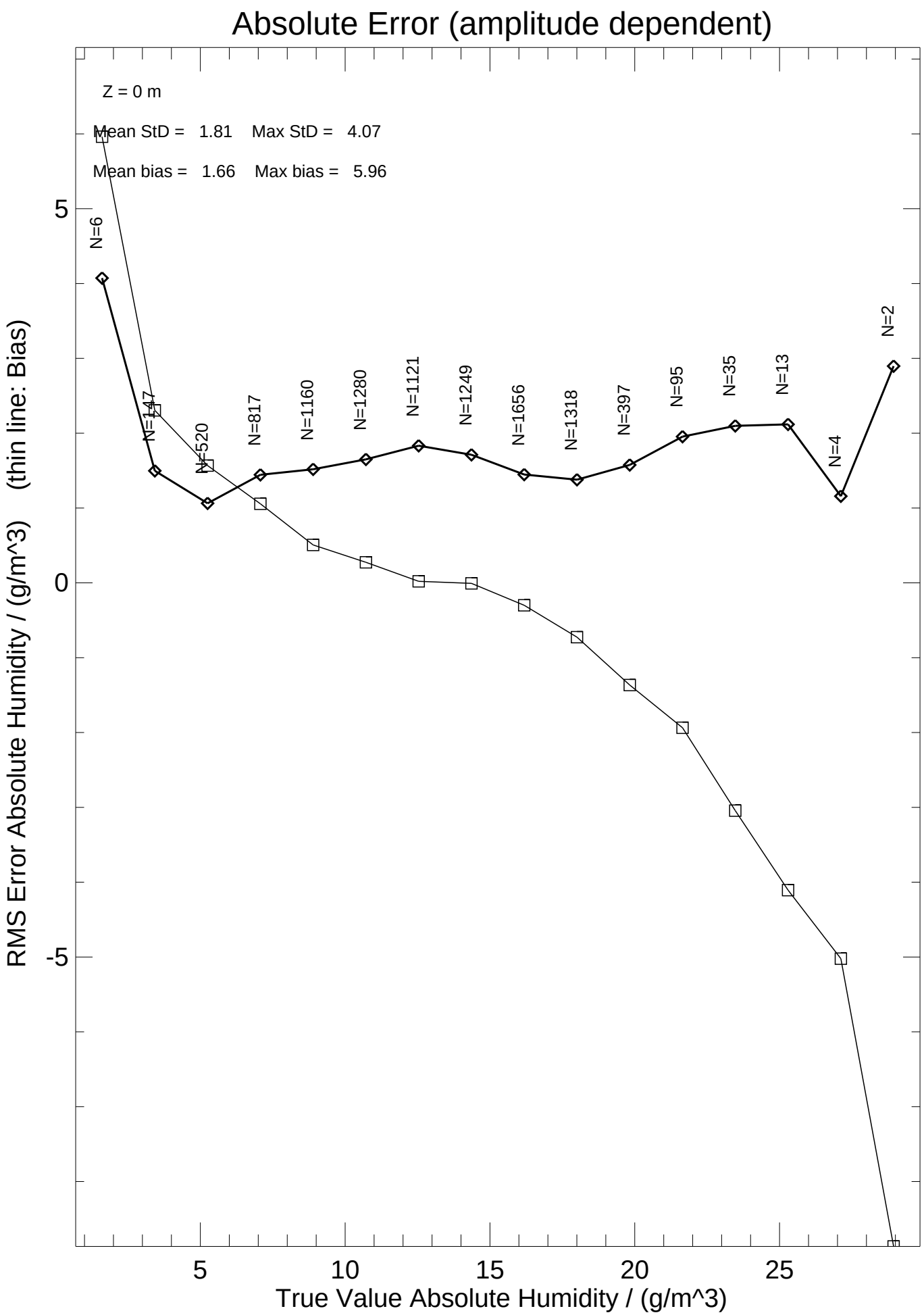
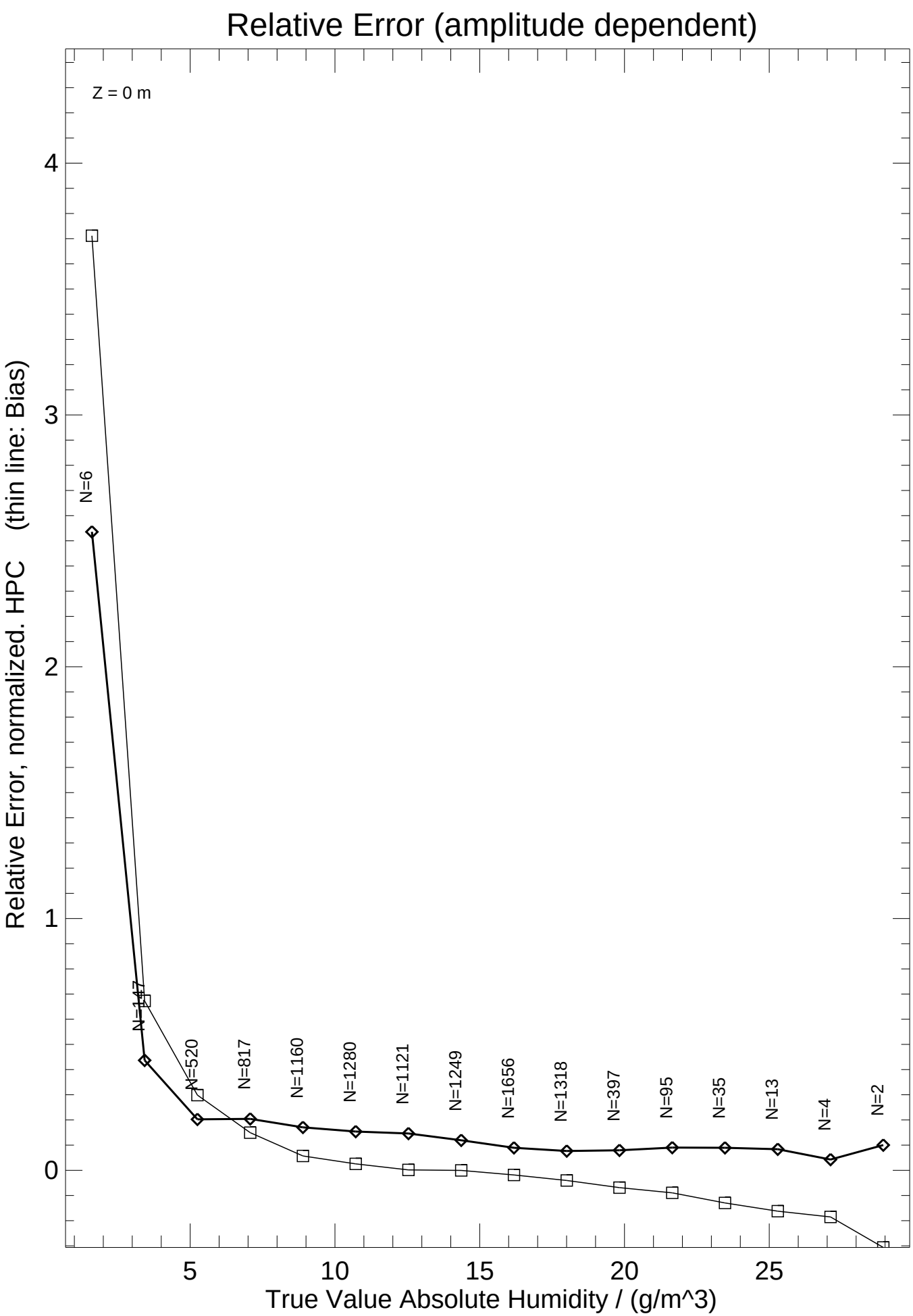
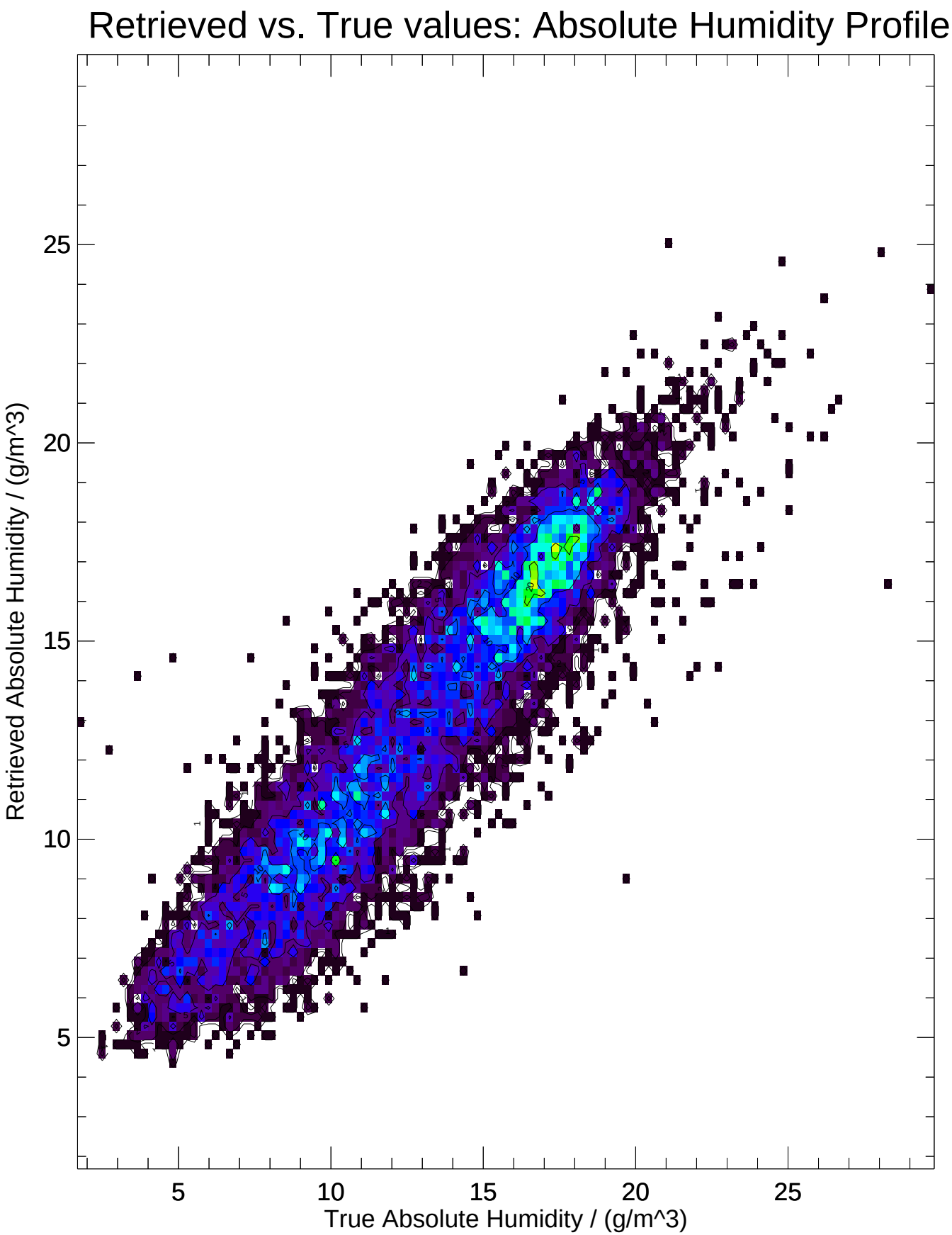
16
18

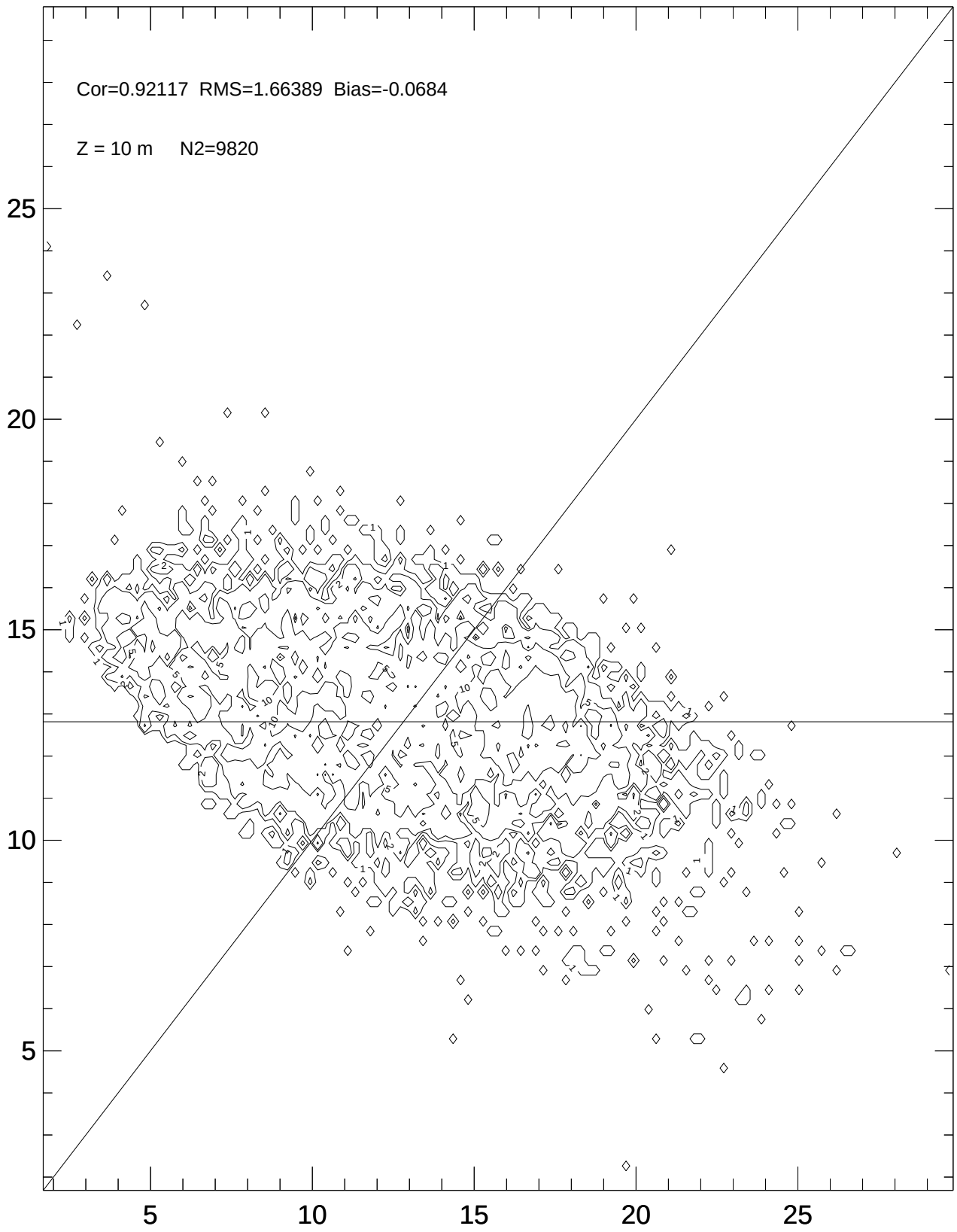

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

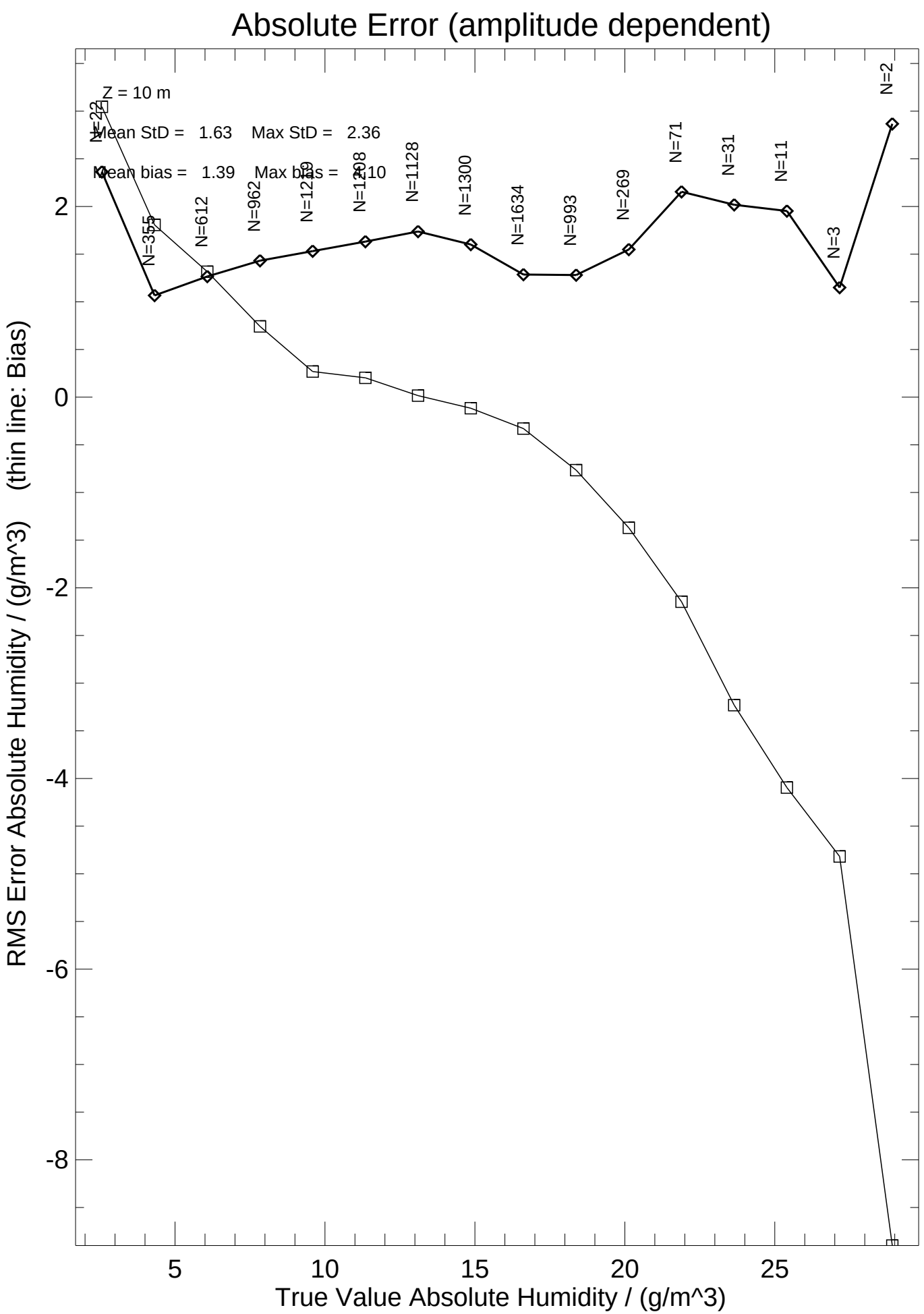

Cor=0.91399 RMS=1.75216 Bias=-0.0640
Z = 0 m N2=9820
25
20
15
10
5
5
10
15
20
25

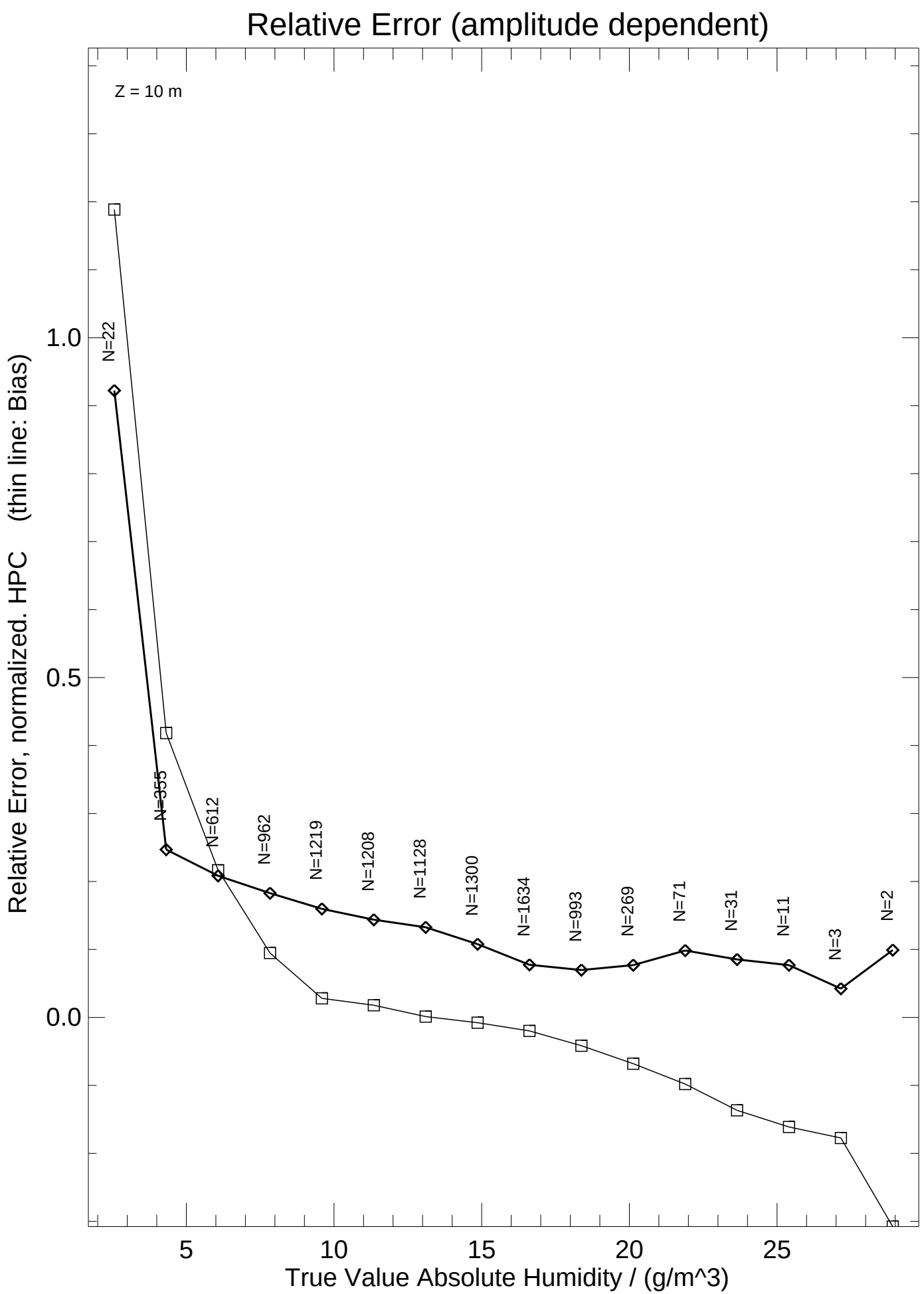

Absolute Error (amplitude dependent)
Z = 0 m
Mean StD = 1.81 Max StD = 4.07
Mean bias = 1.66 Max bias = 5.96
N=6
N=147
N=520
N=817
N=1160
N=1280
N=1121
N=1249
N=1656
N=1318
N=397
N=95
N=35
N=13
N=4
N=2
5
0
-5
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)

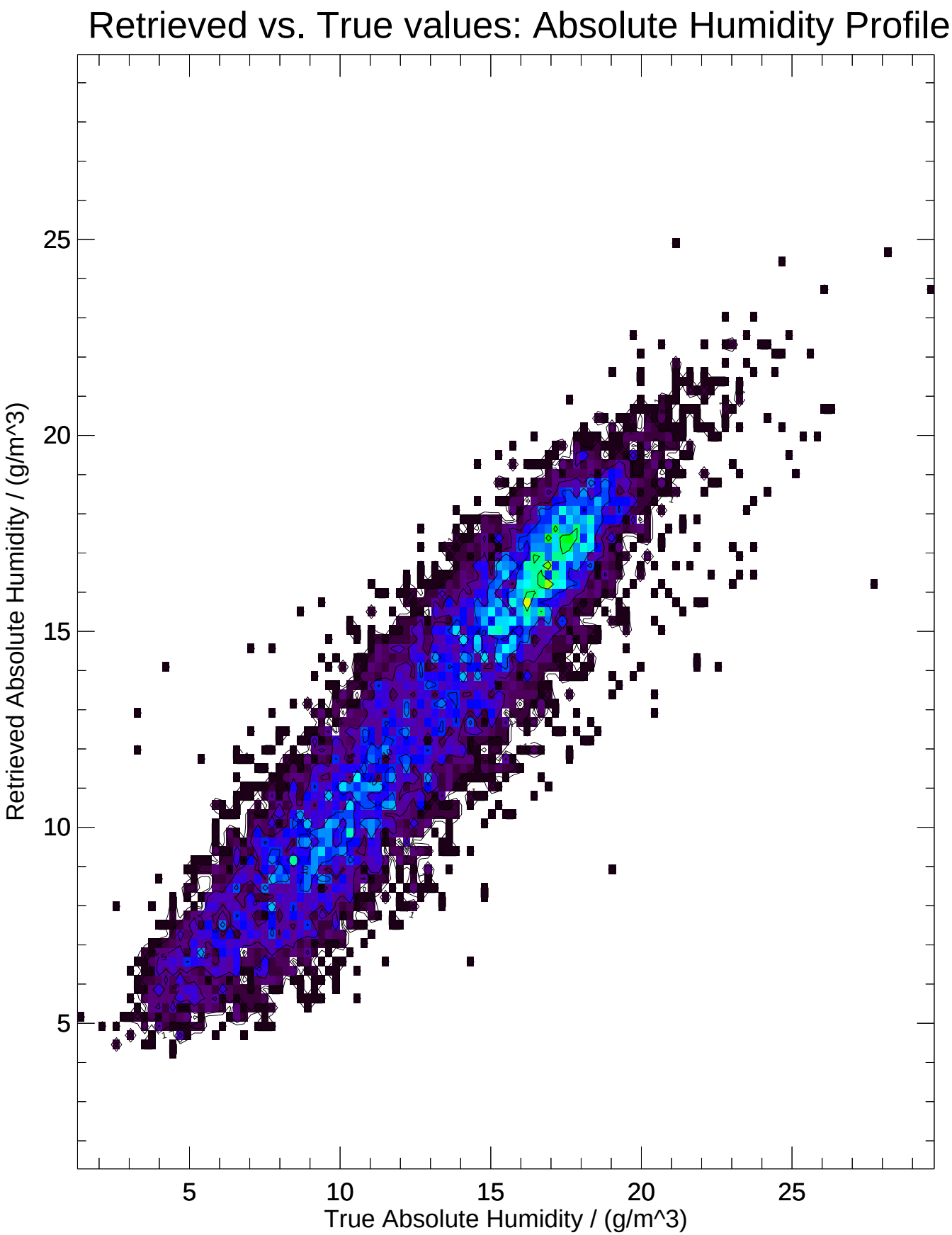

Relative Error (amplitude dependent)
Z = 0 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
4
5
10
15
20
25
N=6
N=147
N=520
N=817
N=1160
N=1280
N=1121
N=1249
N=1656
N=1318
N=397
N=95
N=35
N=13
N=4
N=2

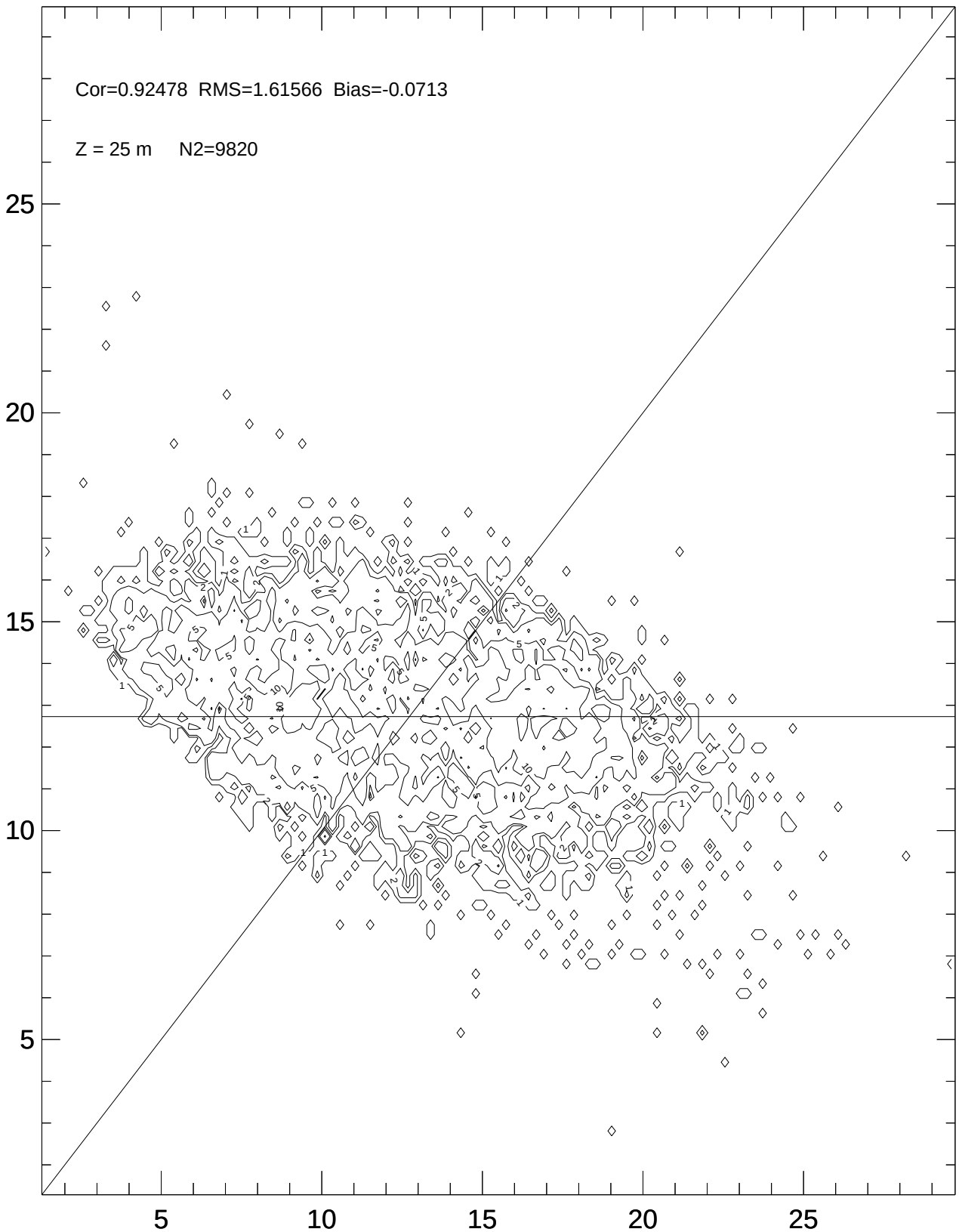

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

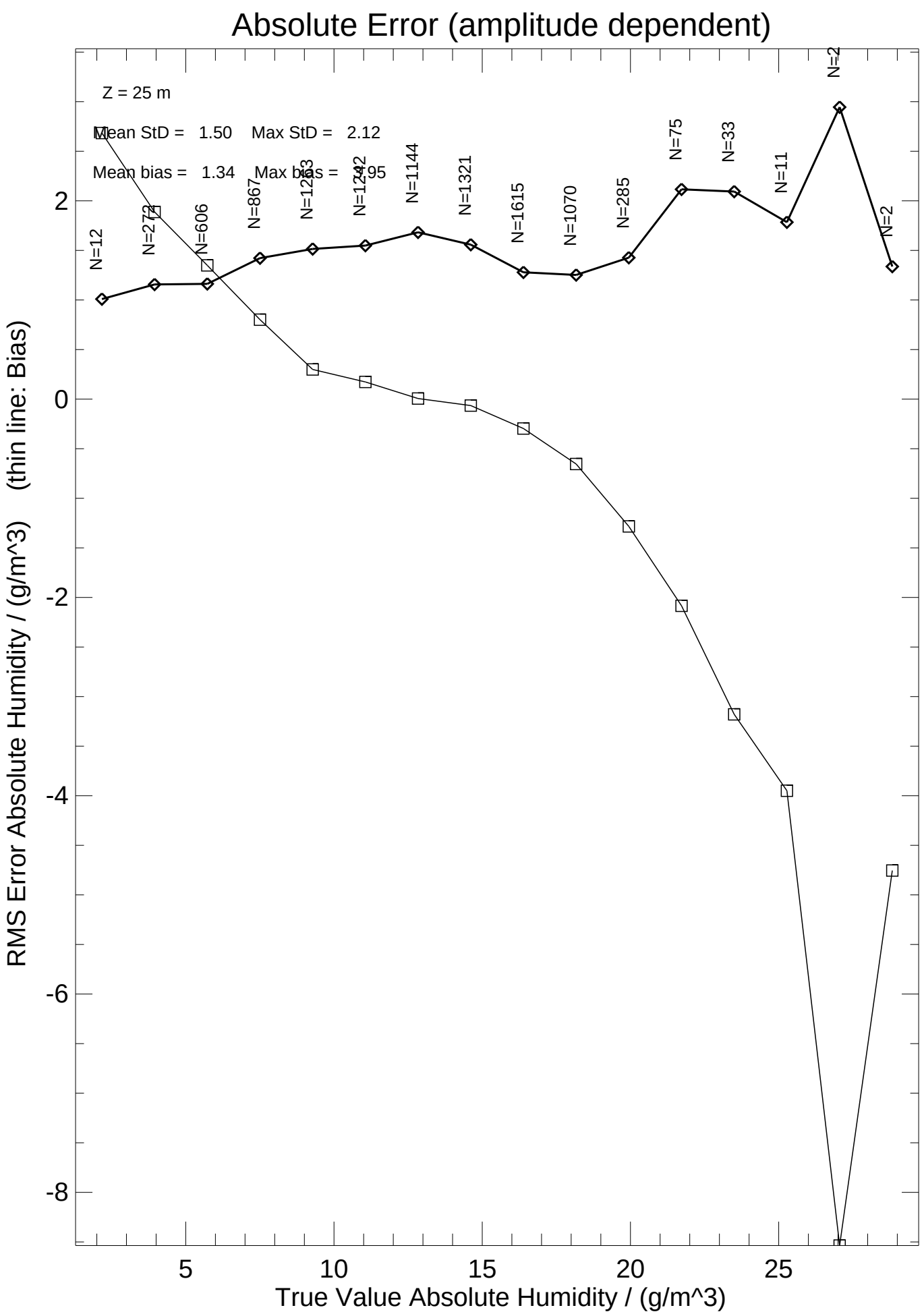

Cor=0.92117 RMS=1.66389 Bias=-0.0684
Z = 10 m N2=9820
25
20
15
10
5
5
10
15
20
25

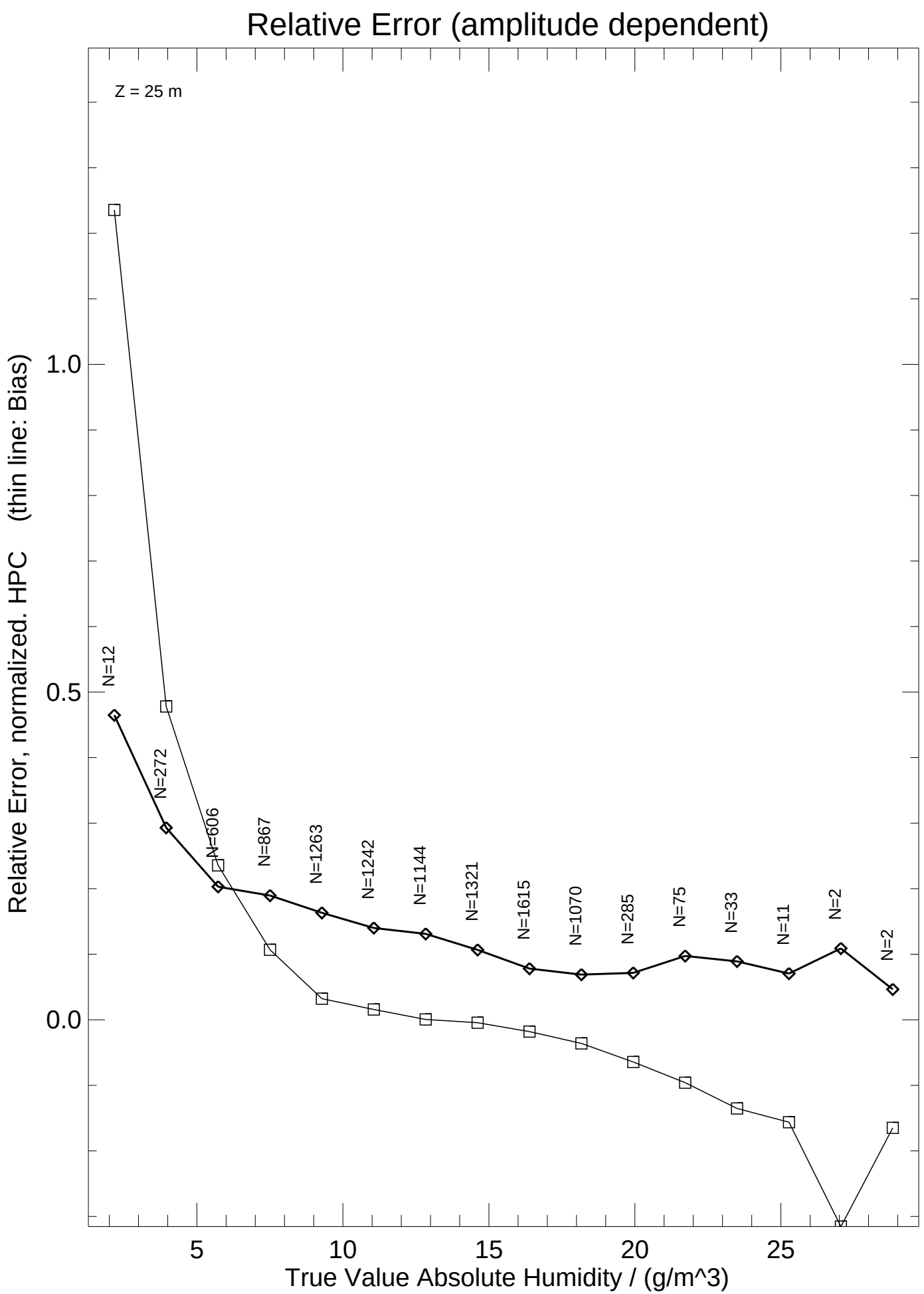

Absolute Error (amplitude dependent)
Z = 10 m
Mean StD = 1.63 Max StD = 2.36
Mean bias = 1.39 Max bias = 2.10
N=22
N=355
N=612
N=962
N=1249
N=1408
N=1128
N=1300
N=1634
N=993
N=269
N=71
N=31
N=11
N=3
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
-8
5
10
15
20
25

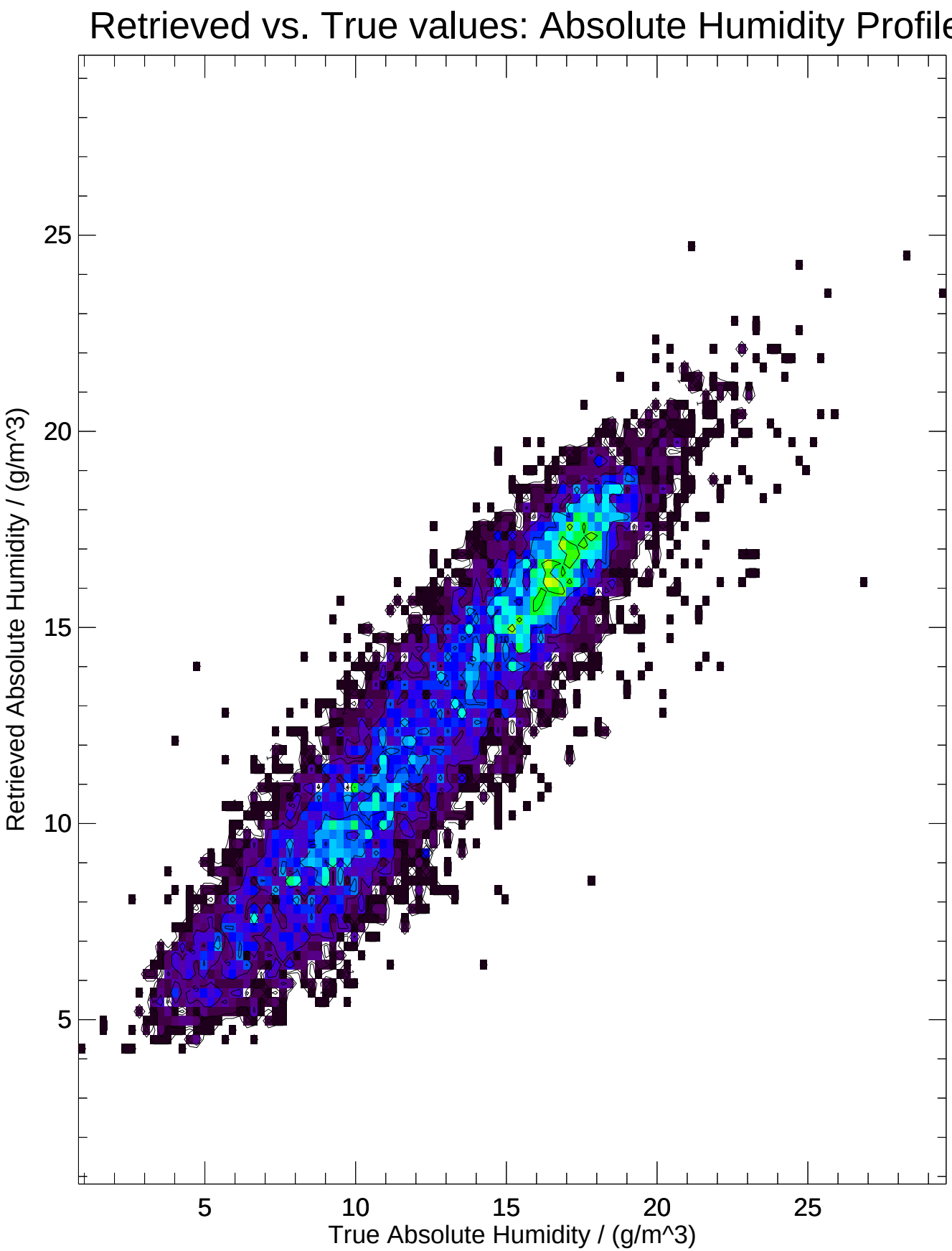

Relative Error (amplitude dependent)
Z = 10 m
Relative Error, normalized. HPC (thin line: Bias)
1.0
0.5
0.0
N=22
N=355
N=612
N=962
N=1219
N=1208
N=1128
N=1300
N=1634
N=993
N=269
N=71
N=31
N=11
N=3
N=2
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)

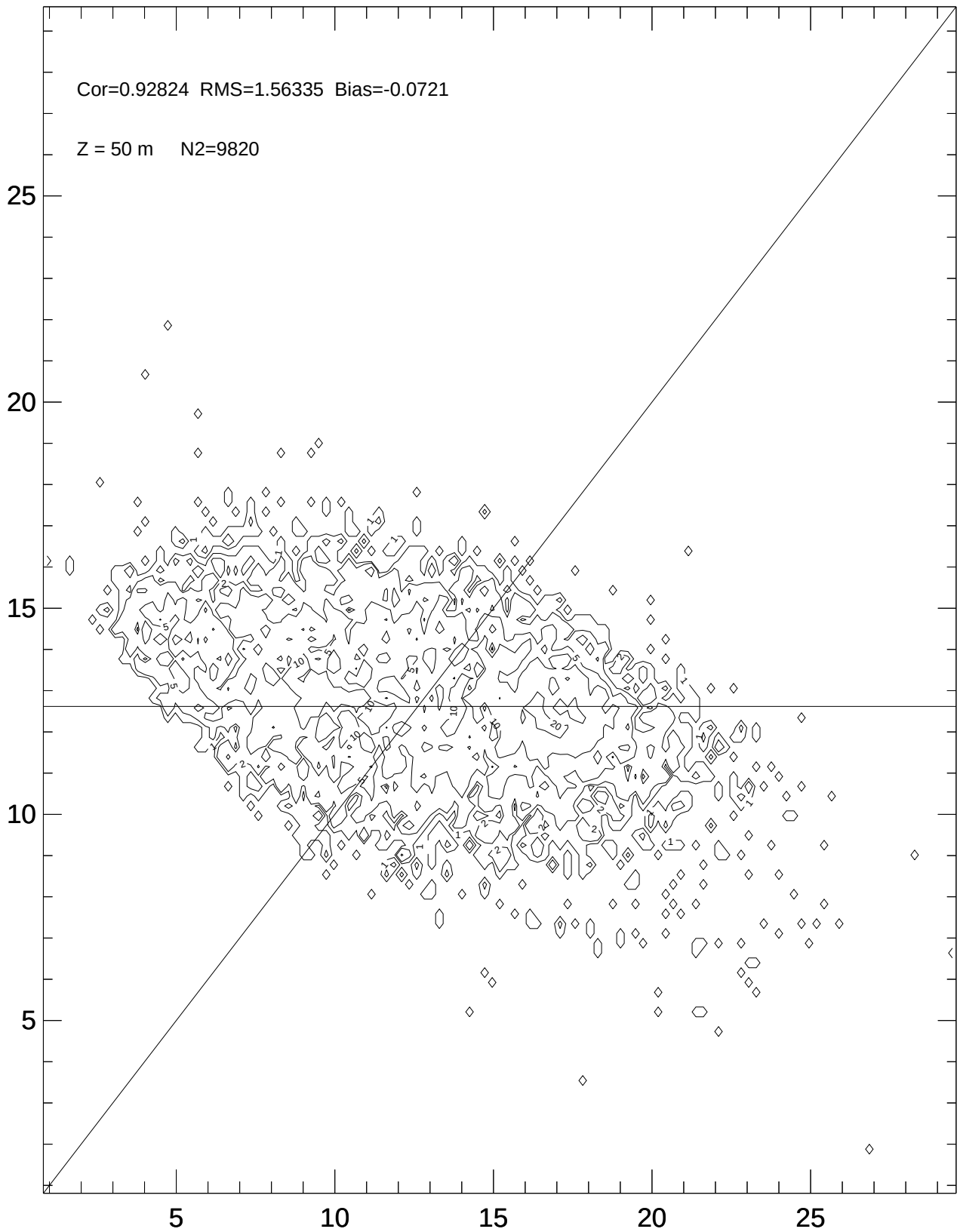

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25
5
10
15
20
25

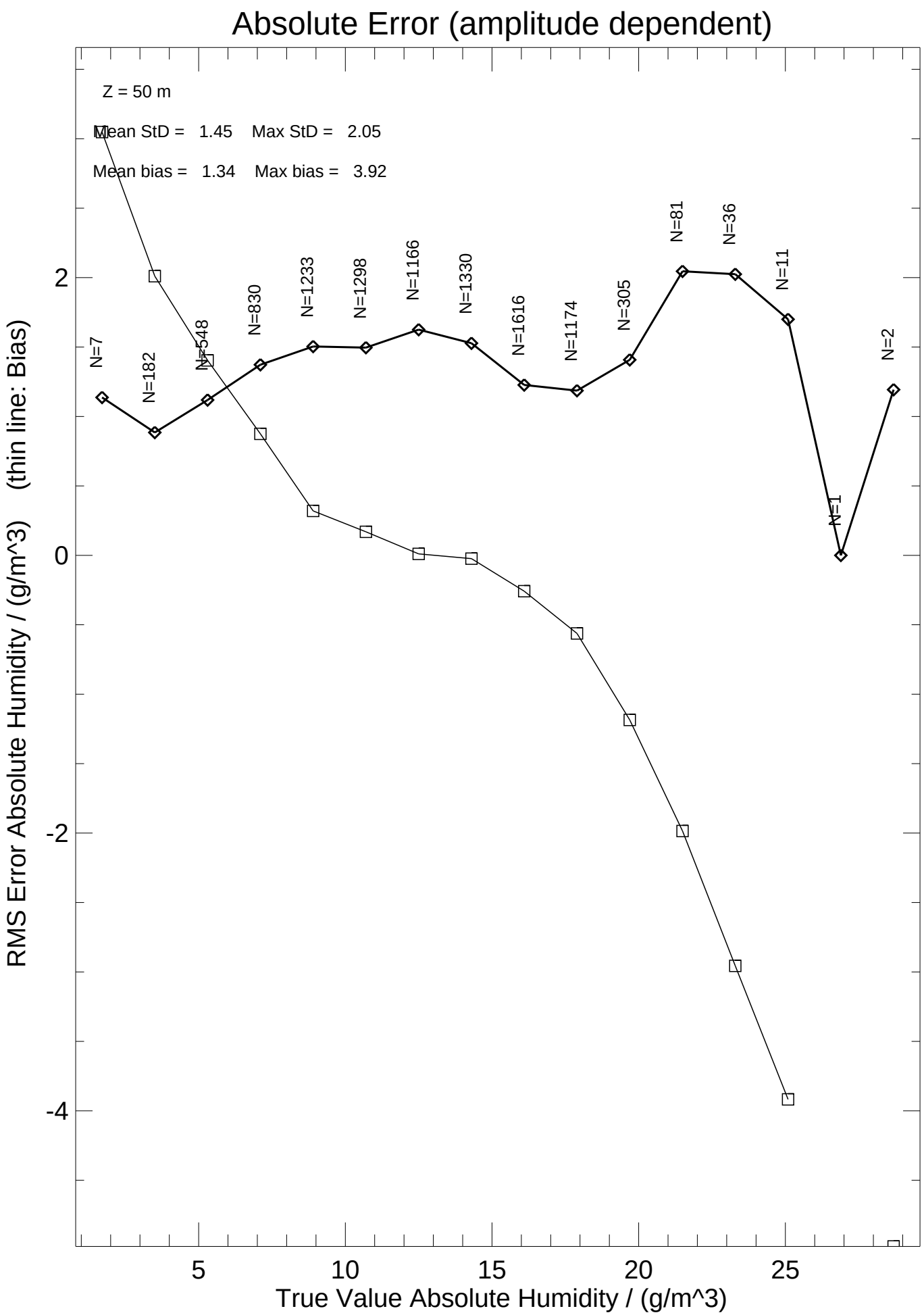

Cor=0.92478 RMS=1.61566 Bias=-0.0713
Z = 25 m N2=9820
25
20
15
10
5
5
10
15
20
25

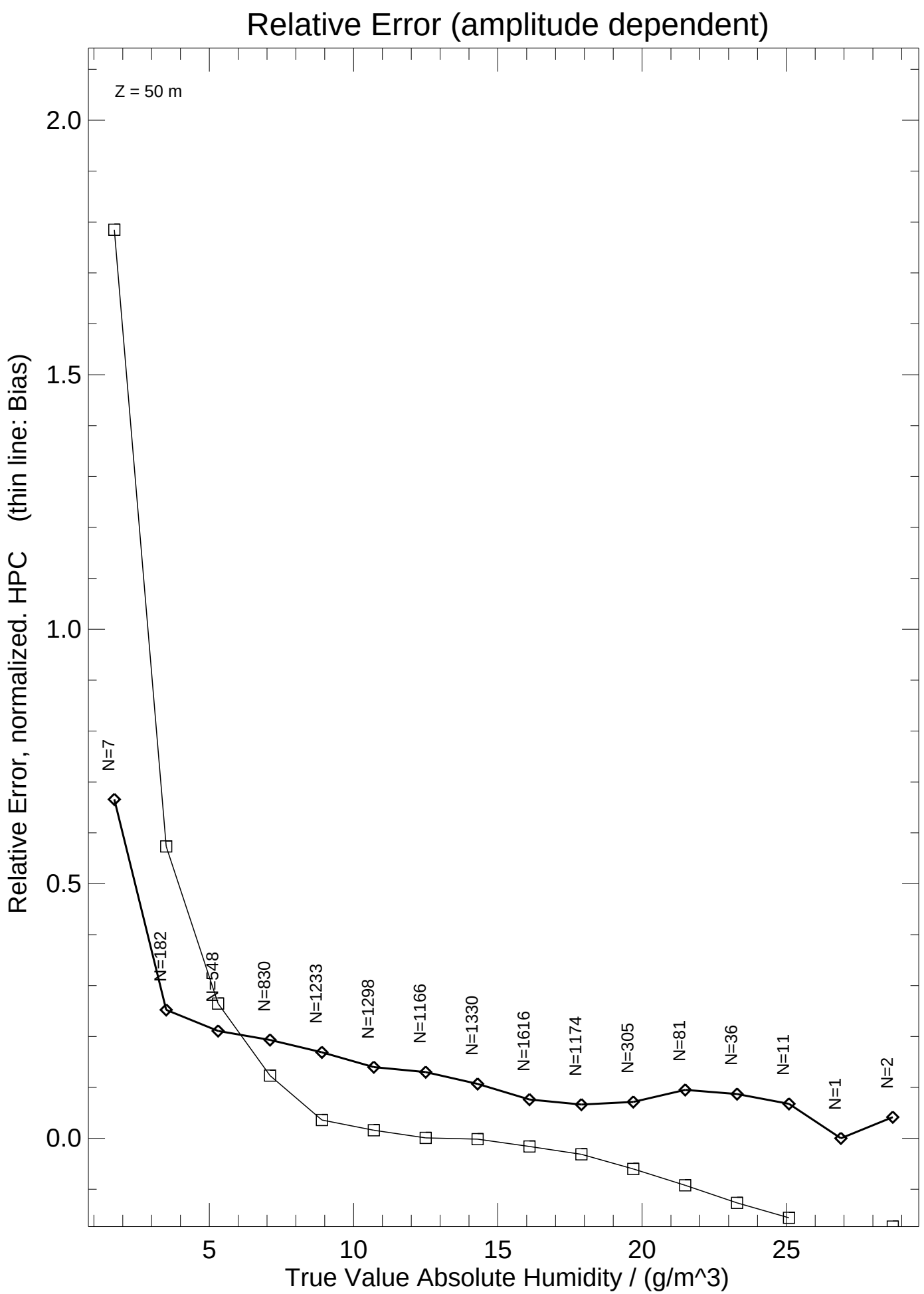

Absolute Error (amplitude dependent)
Z = 25 m
Mean StD = 1.50 Max StD = 2.12
Mean bias = 1.34 Max bias = 1.95
N=12
N=272
N=606
N=867
N=1283
N=1242
N=1144
N=1321
N=1615
N=1070
N=285
N=75
N=33
N=11
N=2
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
-8
5
10
15
20
25

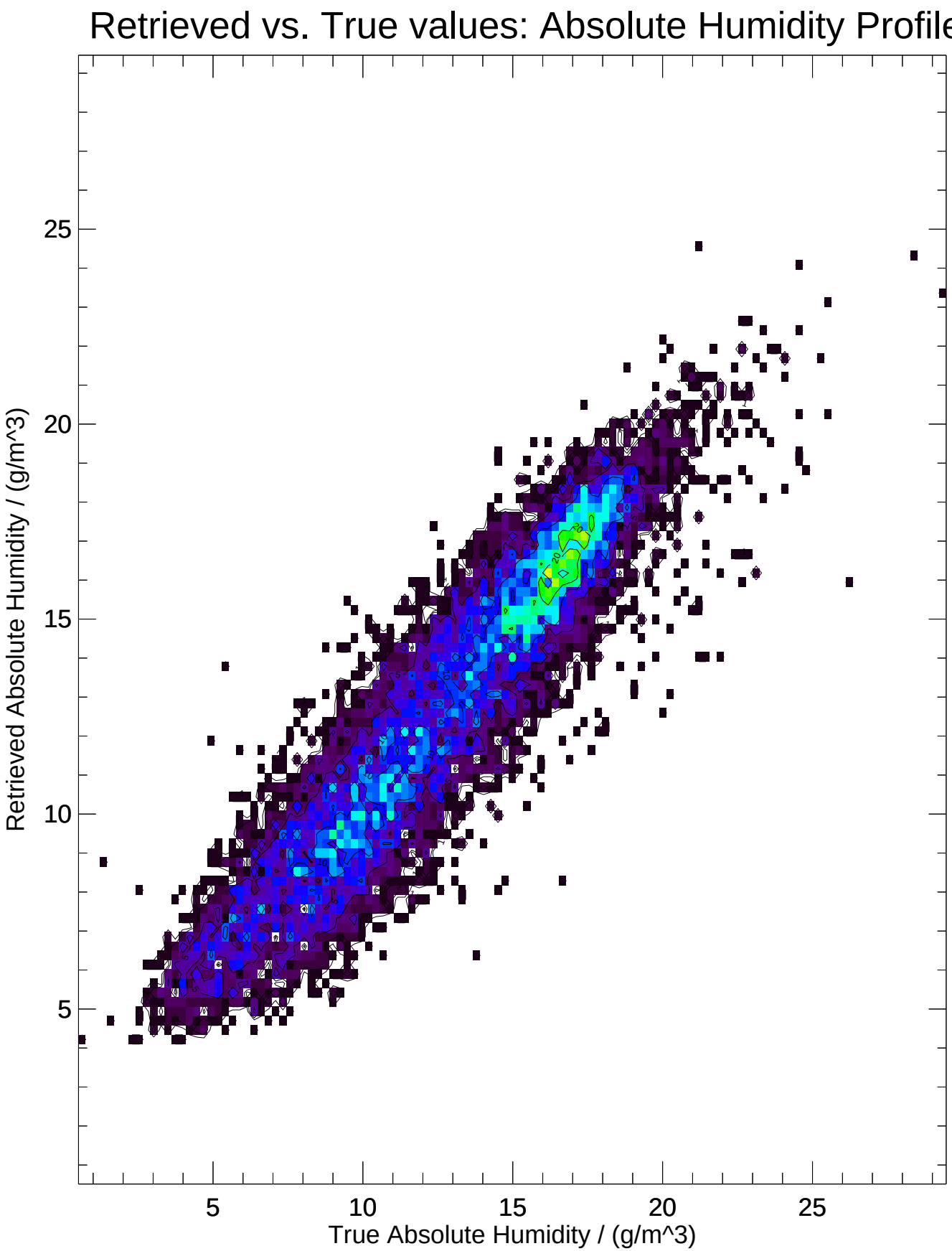

Relative Error (amplitude dependent)
Z = 25 m
Relative Error, normalized. HPC (thin line: Bias)
1.0
0.5
0.0
N=12
N=272
N=606
N=867
N=1263
N=1242
N=1144
N=1321
N=1615
N=1070
N=285
N=75
N=33
N=11
N=2
N=2
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)

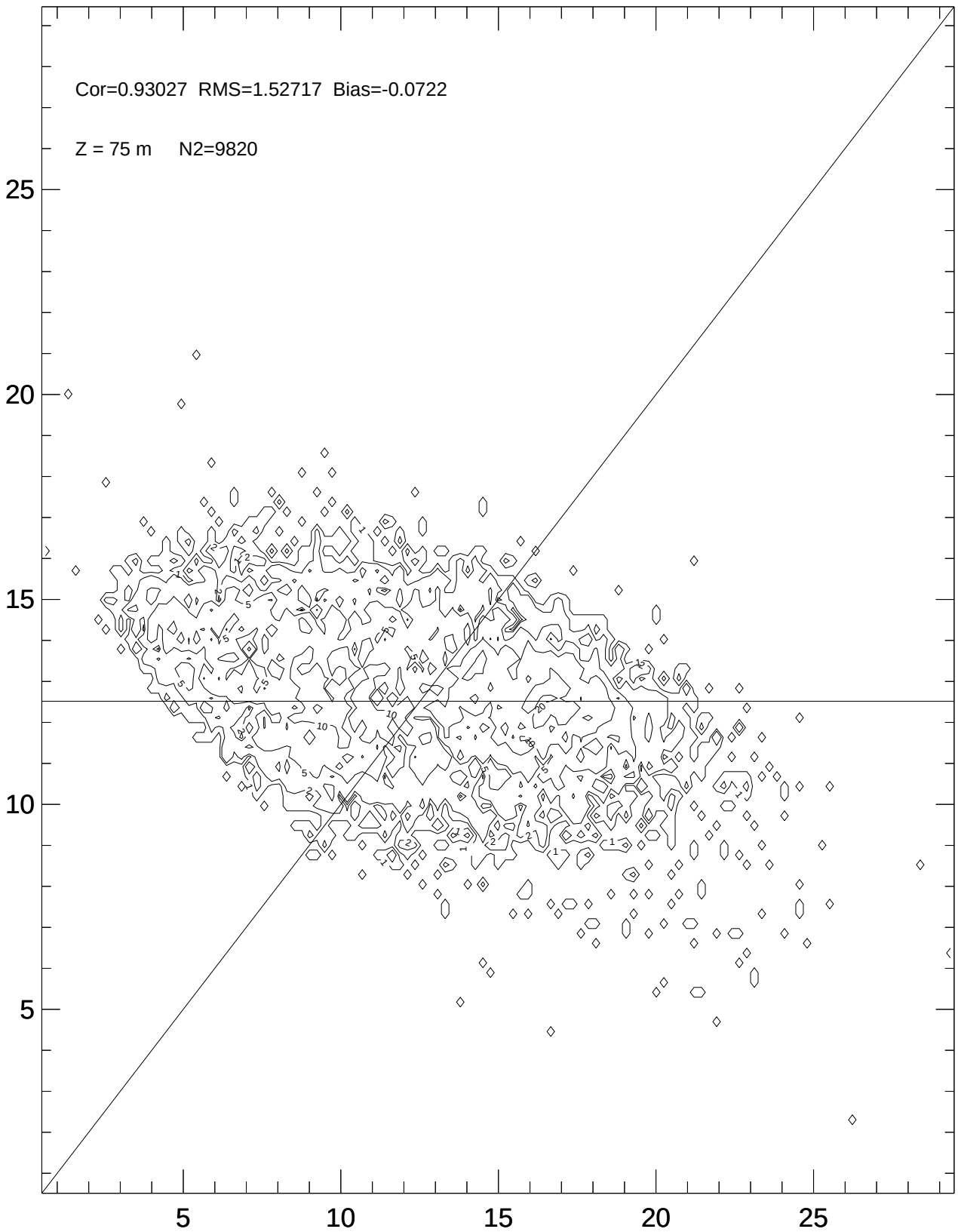

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

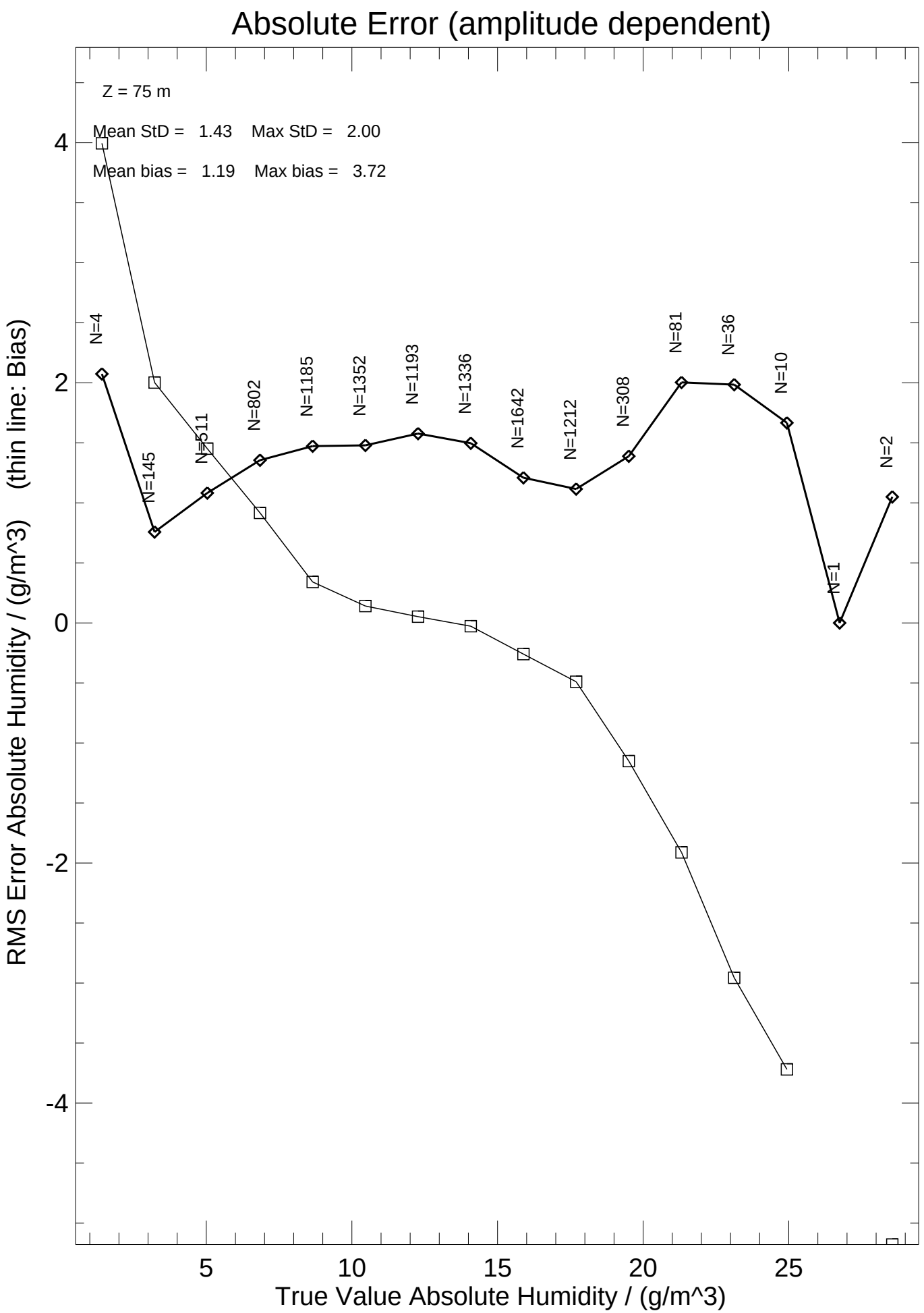

Cor=0.92824 RMS=1.56335 Bias=-0.0721
Z = 50 m N2=9820
25
20
15
10
5
5
10
15
20
25

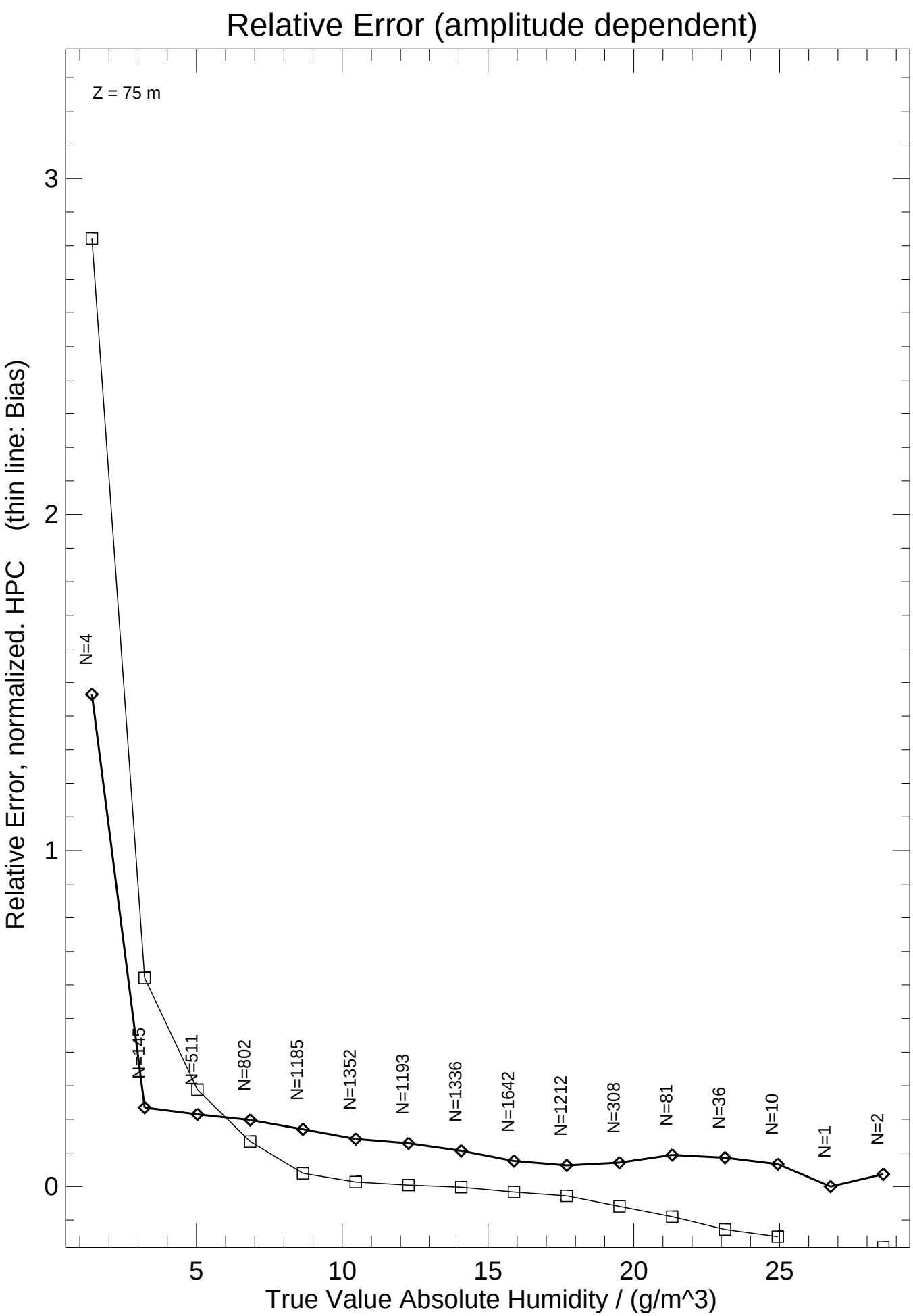

Absolute Error (amplitude dependent)
Z = 50 m
Mean StD = 1.45 Max StD = 2.05
Mean bias = 1.34 Max bias = 3.92
N=7
N=182
N=548
N=830
N=1233
N=1298
N=1166
N=1330
N=1616
N=1174
N=305
N=81
N=36
N=11
N=1
N=2
2
0
-2
-4
5
10
15
20
25
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

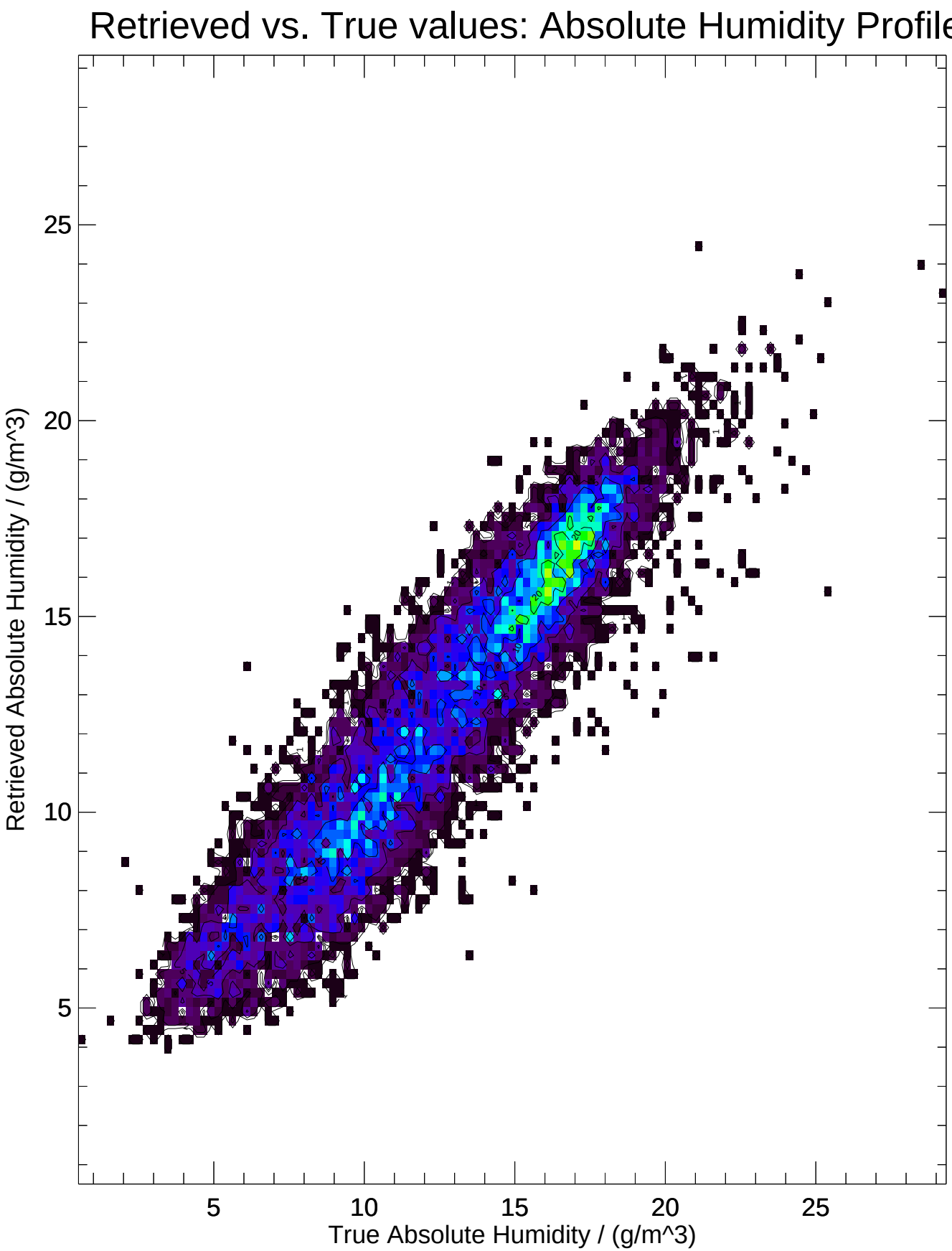

Relative Error (amplitude dependent)
Z = 50 m
Relative Error, normalized. HPC (thin line: Bias)
2.0
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=7
N=182
N=548
N=830
N=1233
N=1298
N=1166
N=1330
N=1616
N=1174
N=305
N=81
N=36
N=11
N=1
N=2

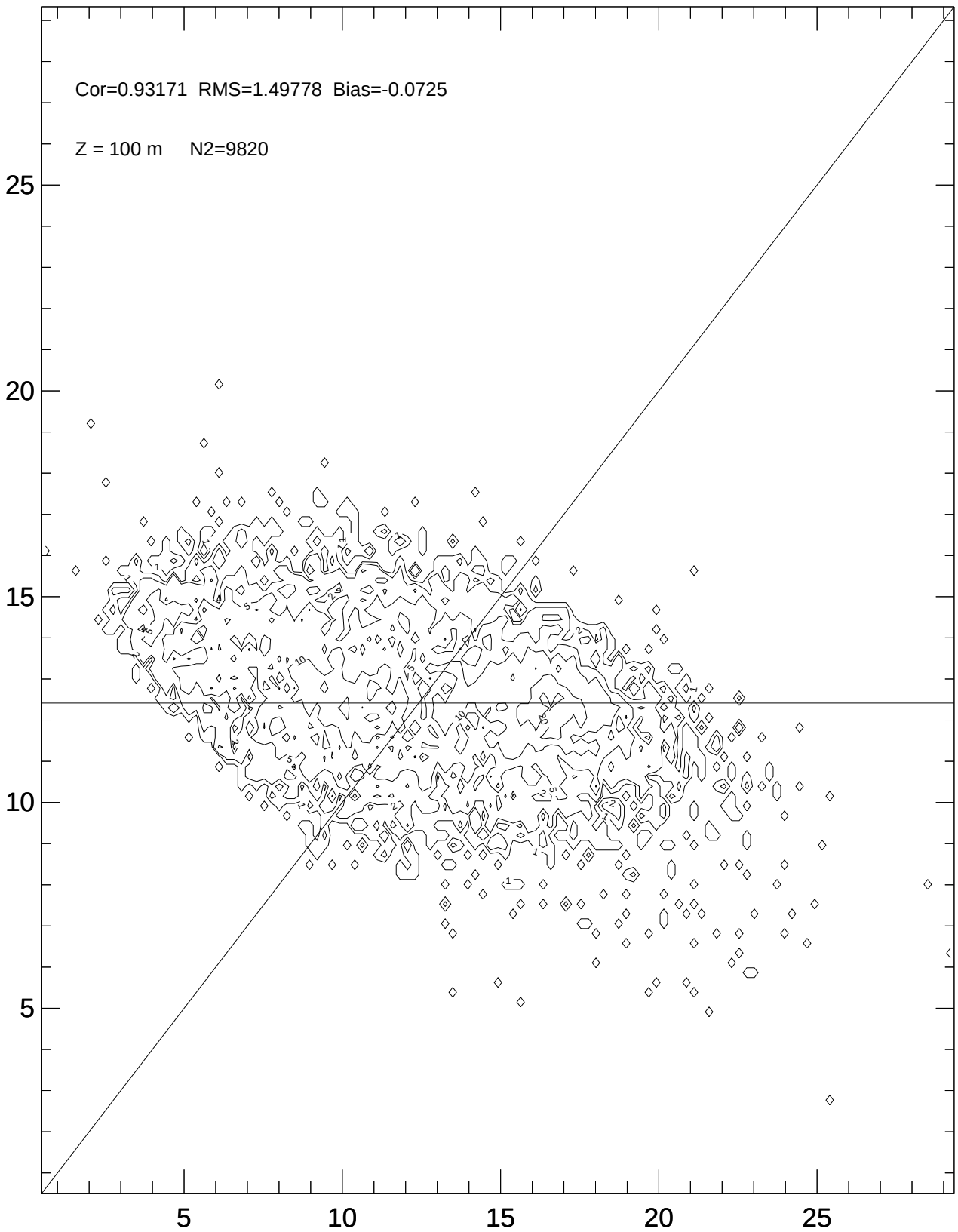

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

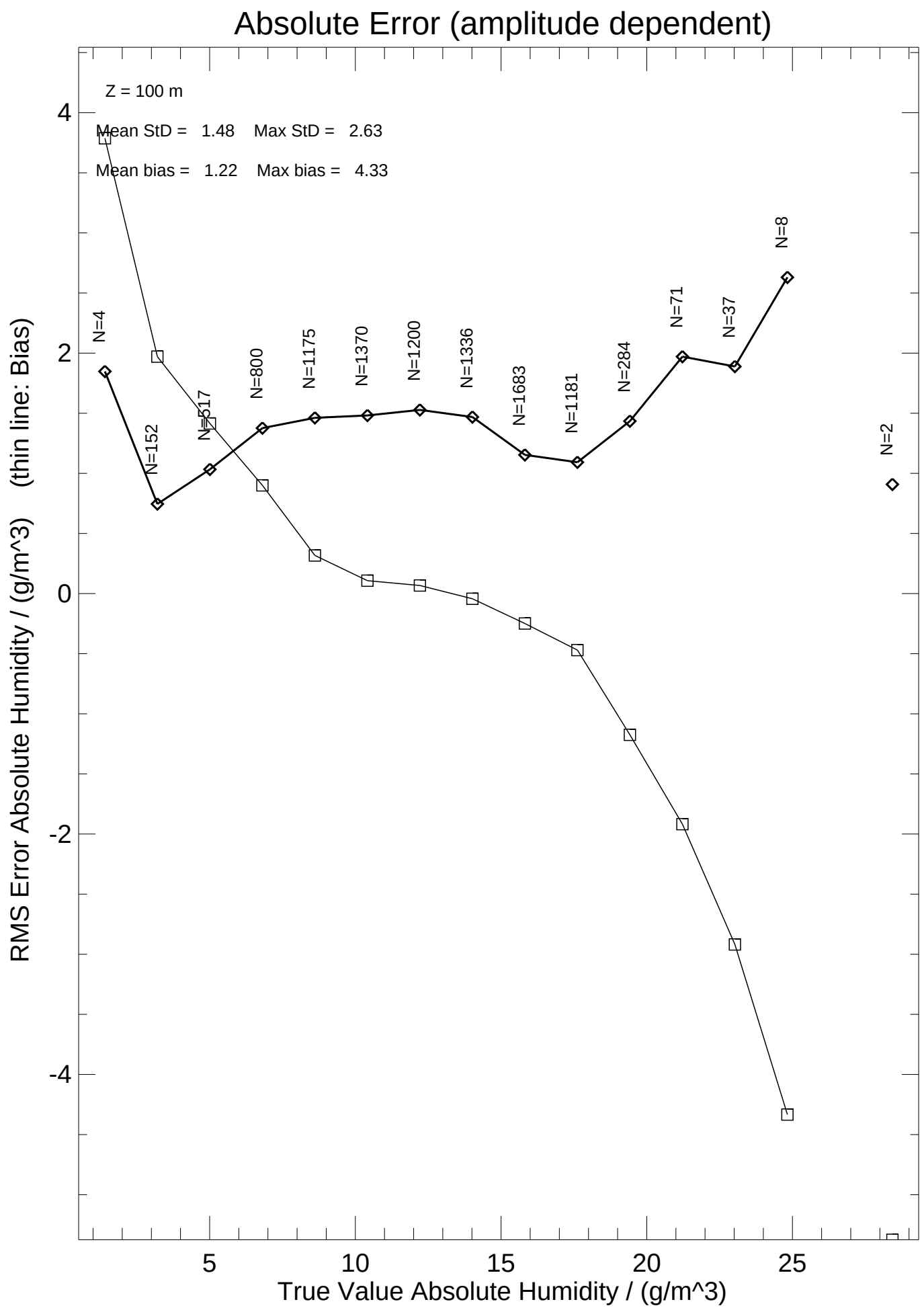

Cor=0.93027 RMS=1.52717 Bias=-0.0722
Z = 75 m N2=9820
25
20
15
10
5
5
10
15
20
25

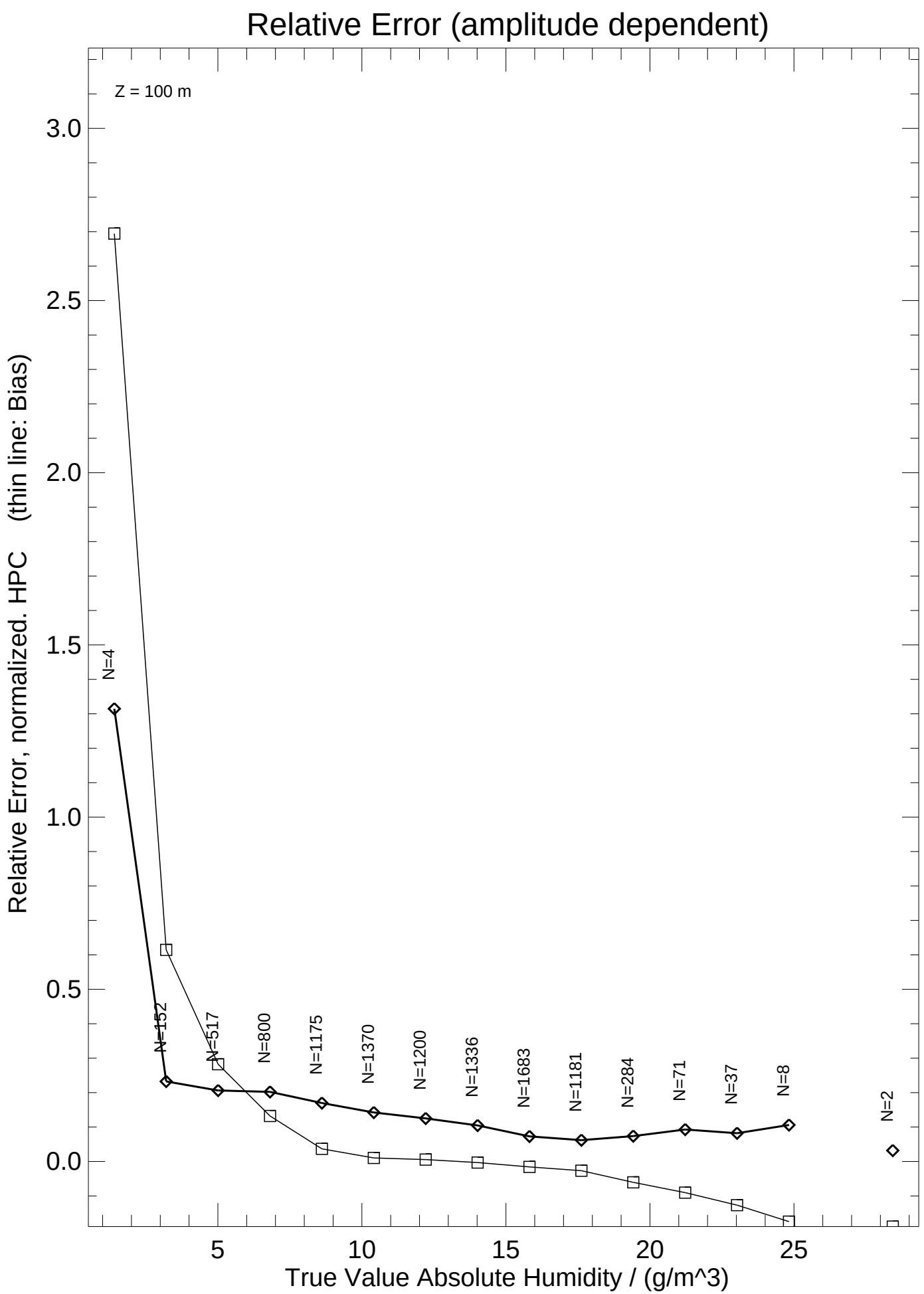

Absolute Error (amplitude dependent)
Z = 75 m
Mean StD = 1.43 Max StD = 2.00
Mean bias = 1.19 Max bias = 3.72
N=4
N=145
N=511
N=802
N=1185
N=1352
N=1193
N=1336
N=1642
N=1212
N=308
N=81
N=36
N=10
N=1
N=2
4
2
0
-2
-4
5
10
15
20
25
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

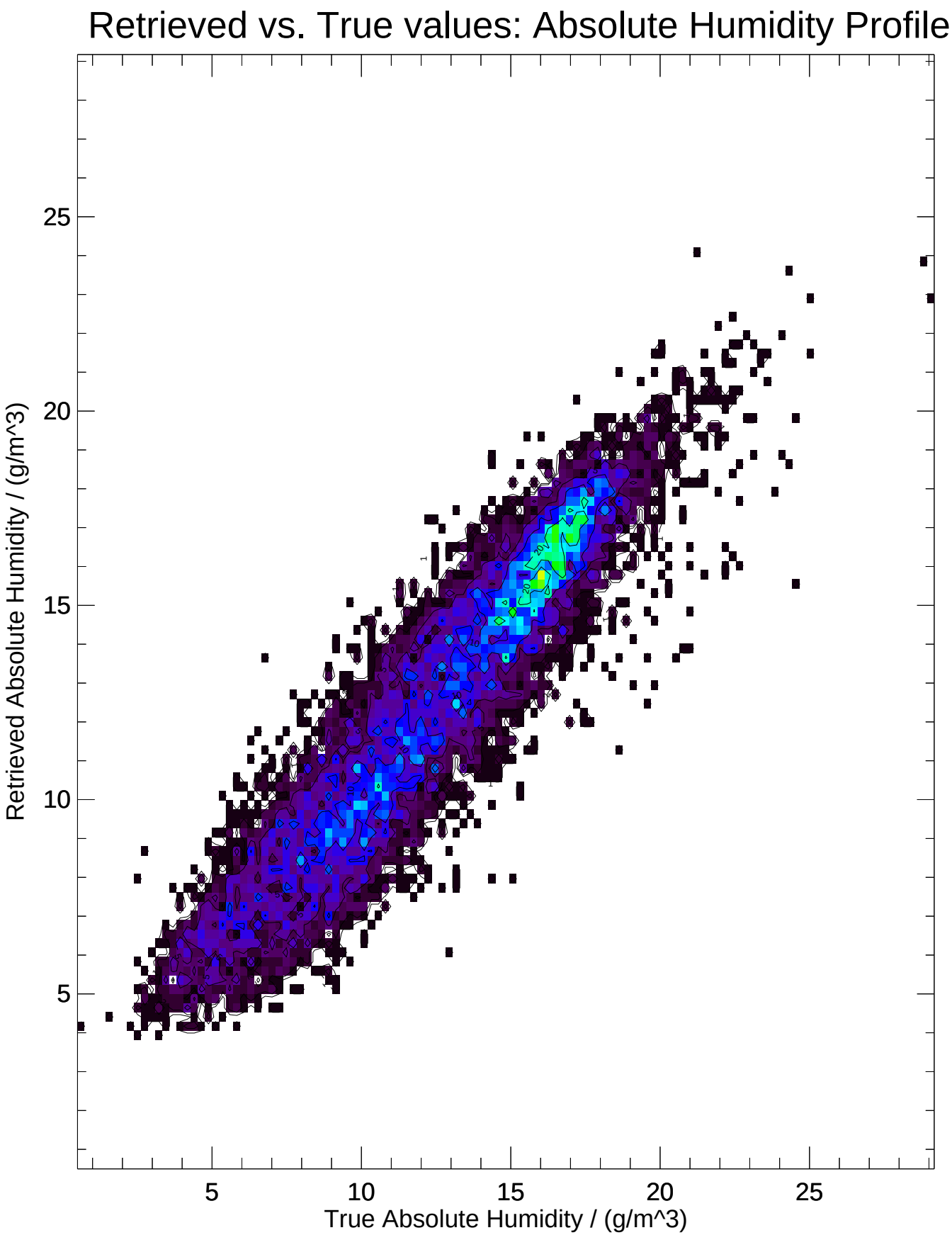

Relative Error (amplitude dependent)
Z = 75 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
5
10
15
20
25
N=4
N=145
N=511
N=802
N=1185
N=1352
N=1193
N=1336
N=1642
N=1212
N=308
N=81
N=36
N=10
N=1
N=2

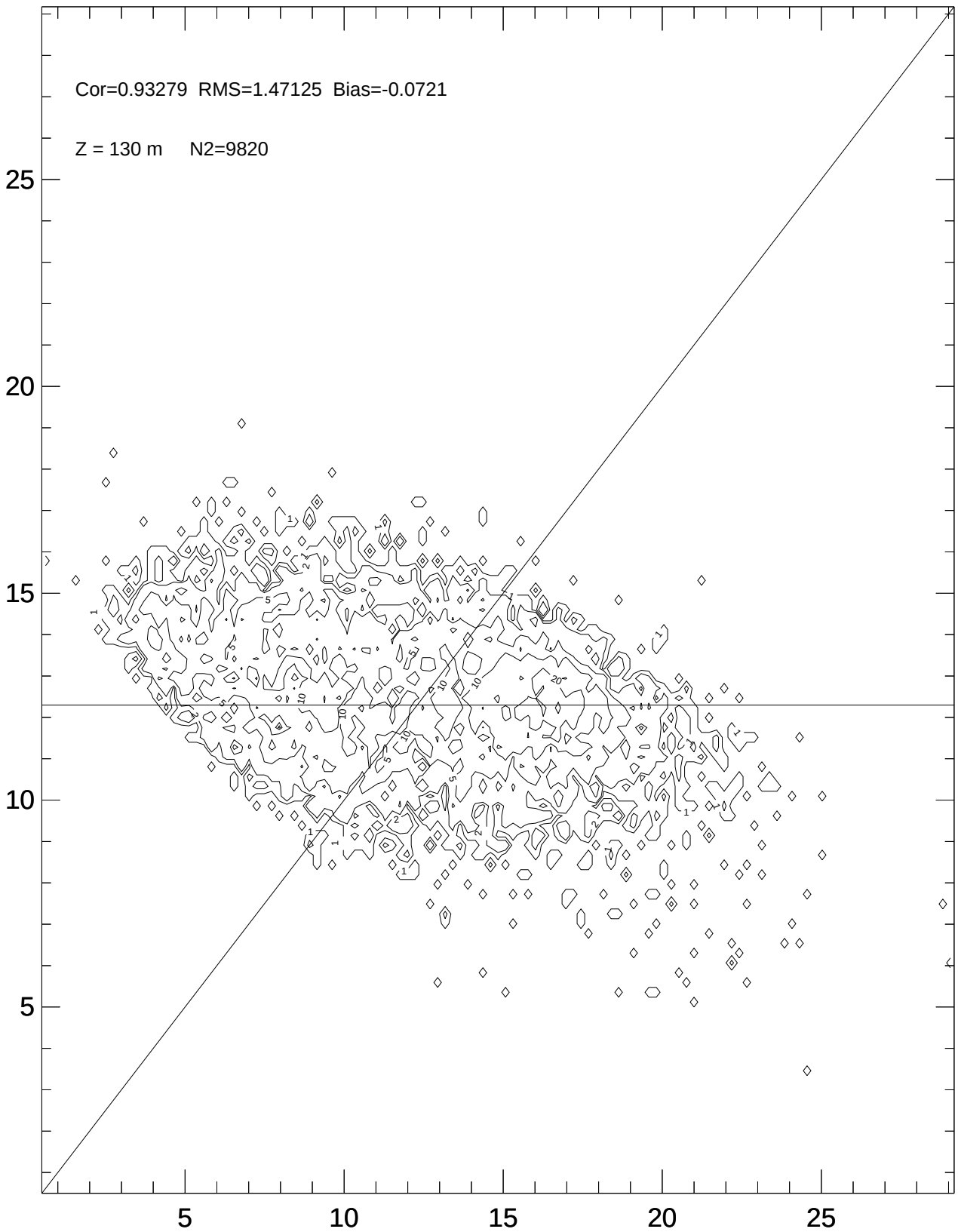

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

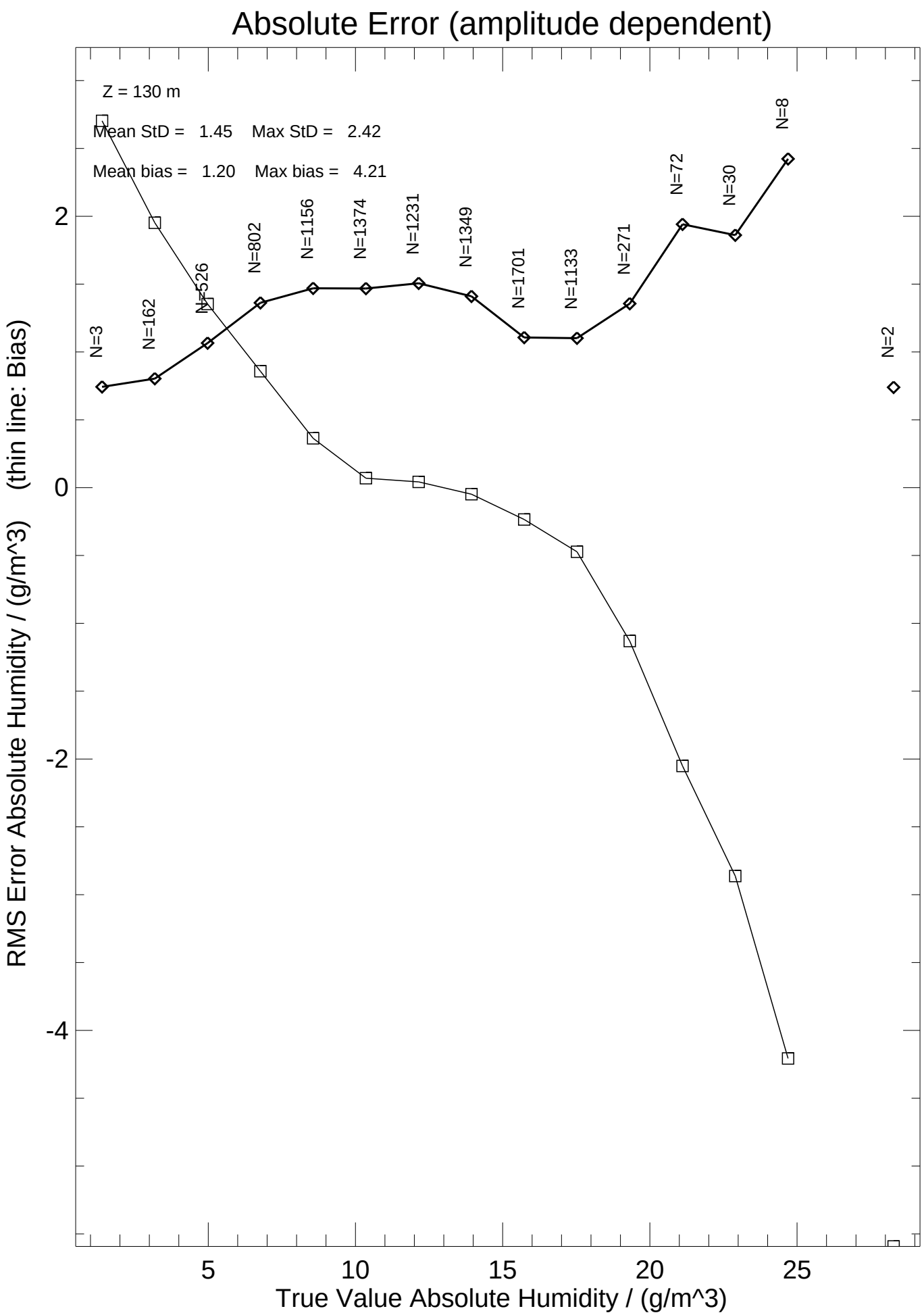

Cor=0.93171 RMS=1.49778 Bias=-0.0725
Z = 100 m N2=9820
25
20
15
10
5
5
10
15
20
25

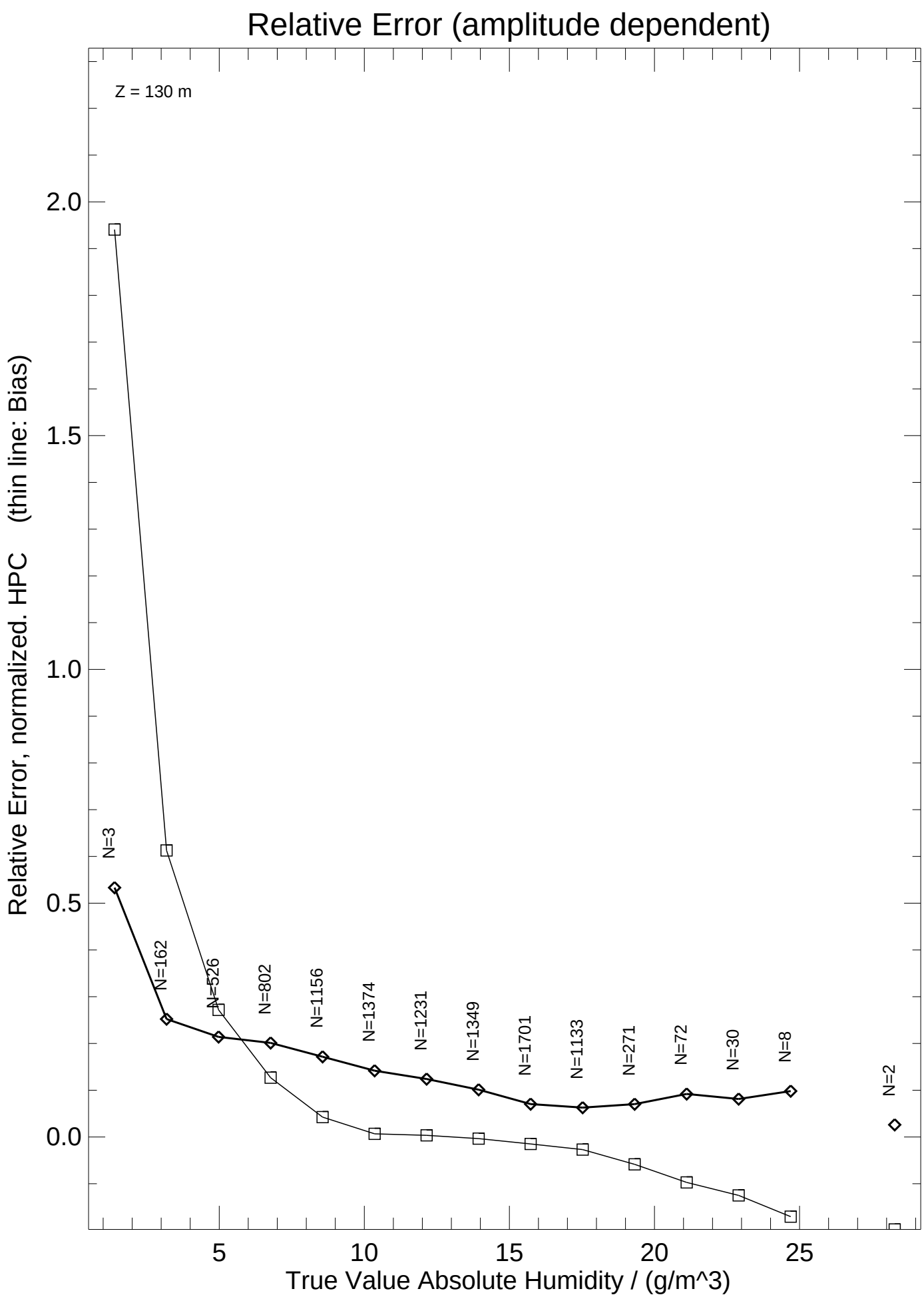

Absolute Error (amplitude dependent)
Z = 100 m
Mean StD = 1.48 Max StD = 2.63
Mean bias = 1.22 Max bias = 4.33
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
4
2
0
-2
-4
5
10
15
20
25
N=4
N=152
N=517
N=800
N=1175
N=1370
N=1200
N=1336
N=1683
N=1181
N=284
N=71
N=37
N=8
N=2

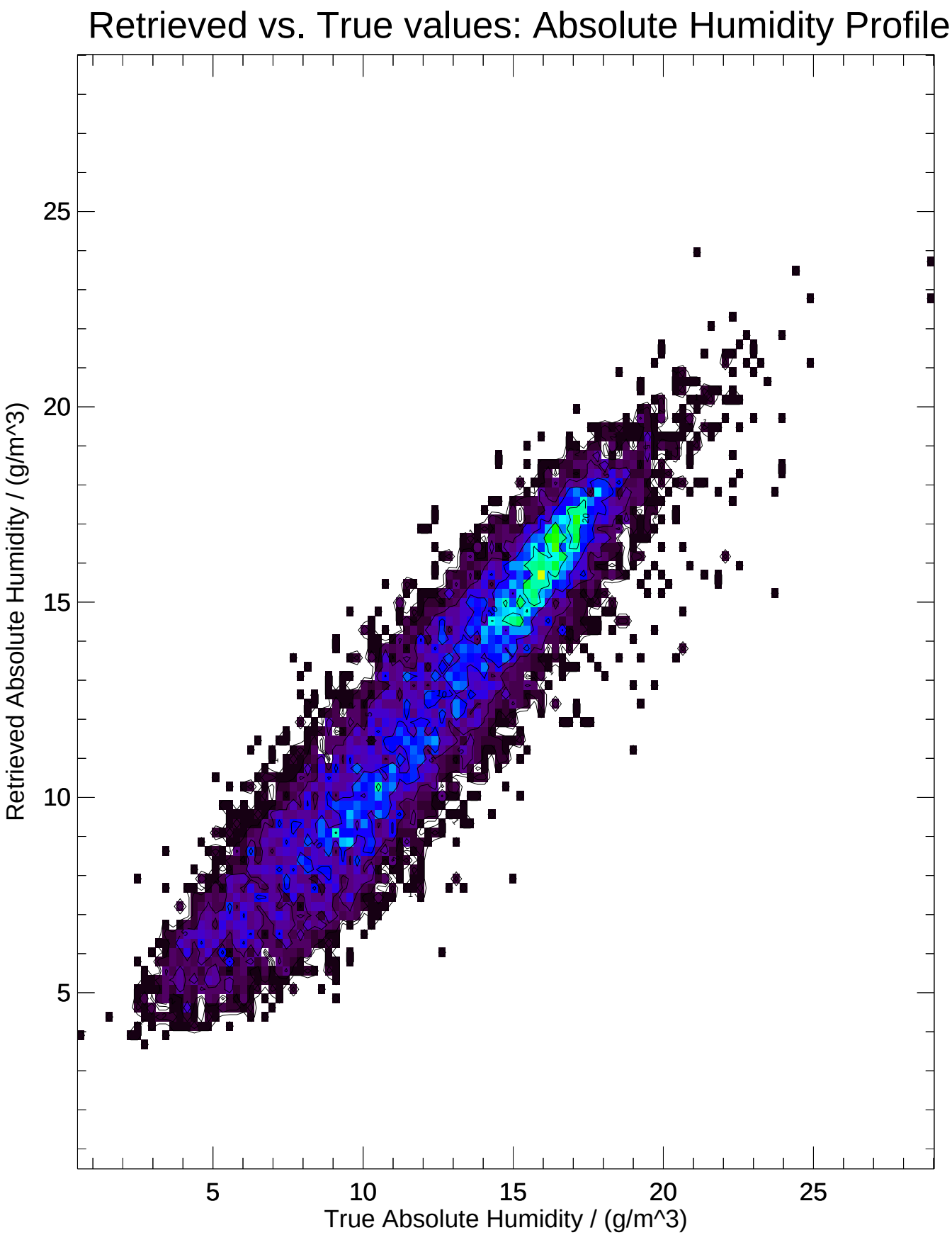

Relative Error (amplitude dependent)
Z = 100 m
Relative Error, normalized. HPC (thin line: Bias)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=4
N=152
N=517
N=800
N=1175
N=1370
N=1200
N=1336
N=1683
N=1181
N=284
N=71
N=37
N=8
N=2

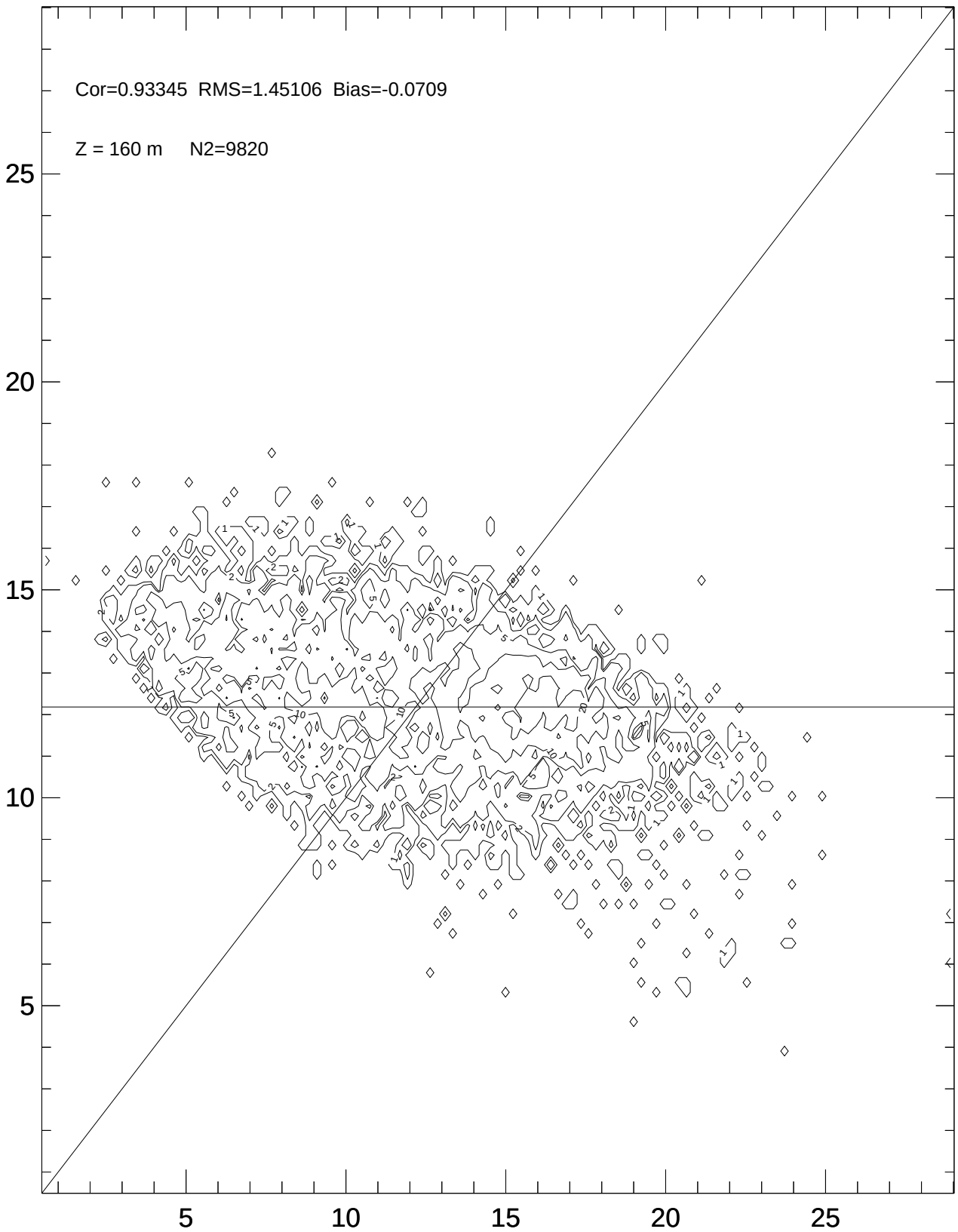

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

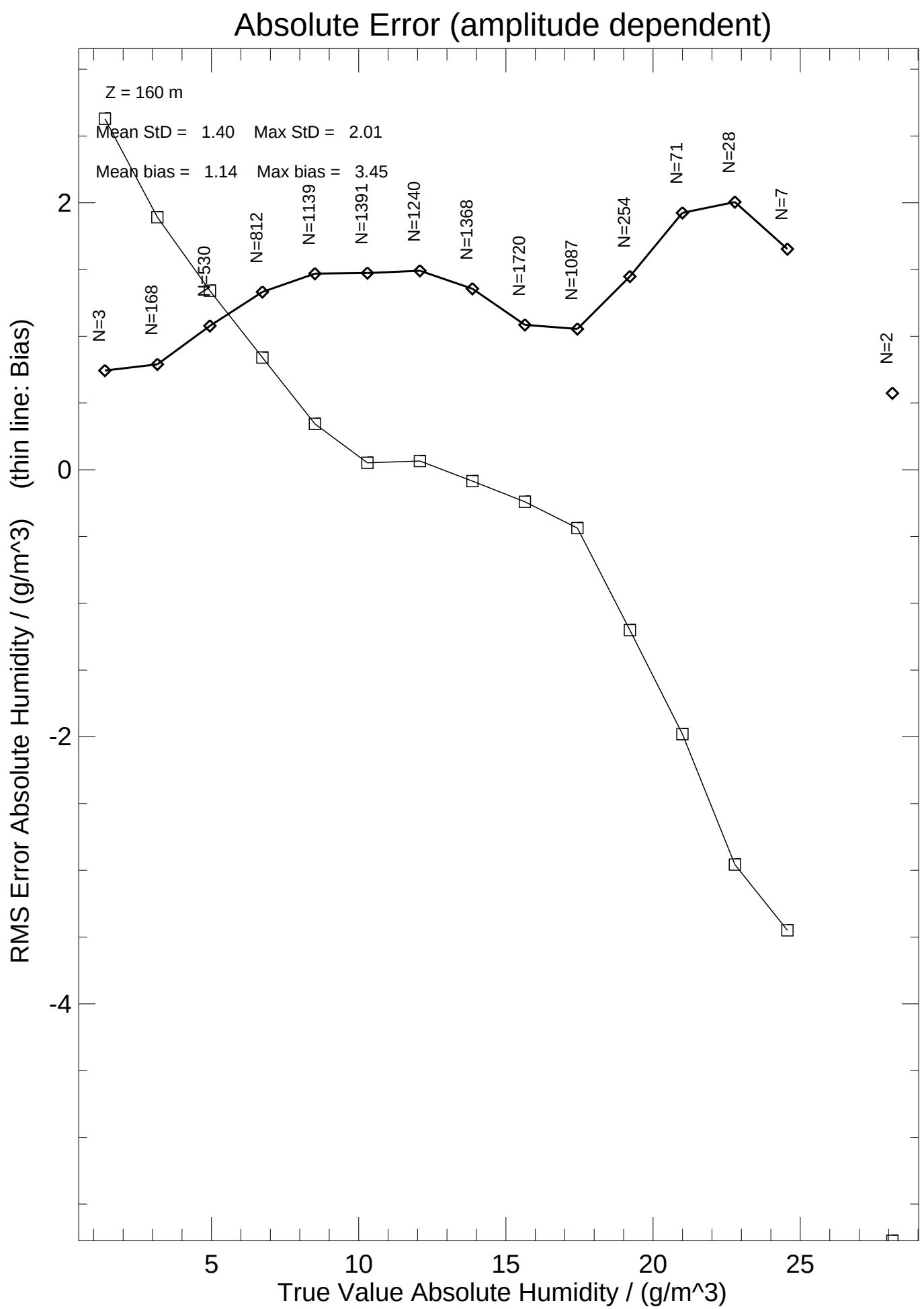

Cor=0.93279 RMS=1.47125 Bias=-0.0721
Z = 130 m N2=9820
25
20
15
10
5
5
10
15
20
25

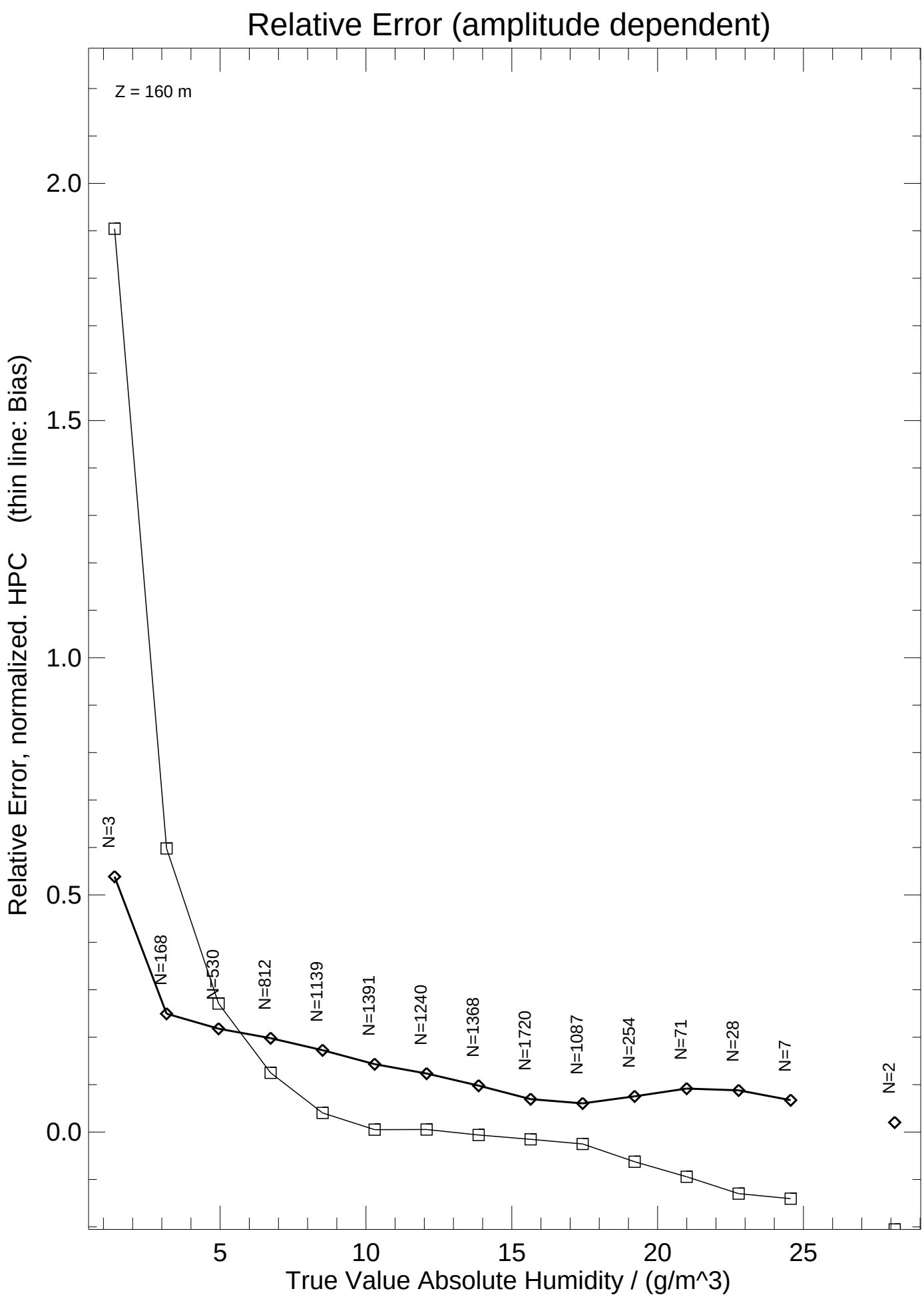

Absolute Error (amplitude dependent)
Z = 130 m
Mean StD = 1.45 Max StD = 2.42
Mean bias = 1.20 Max bias = 4.21
N=3
N=162
N=526
N=802
N=1156
N=1374
N=1231
N=1349
N=1701
N=1133
N=271
N=72
N=30
N=8
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
5
10
15
20
25

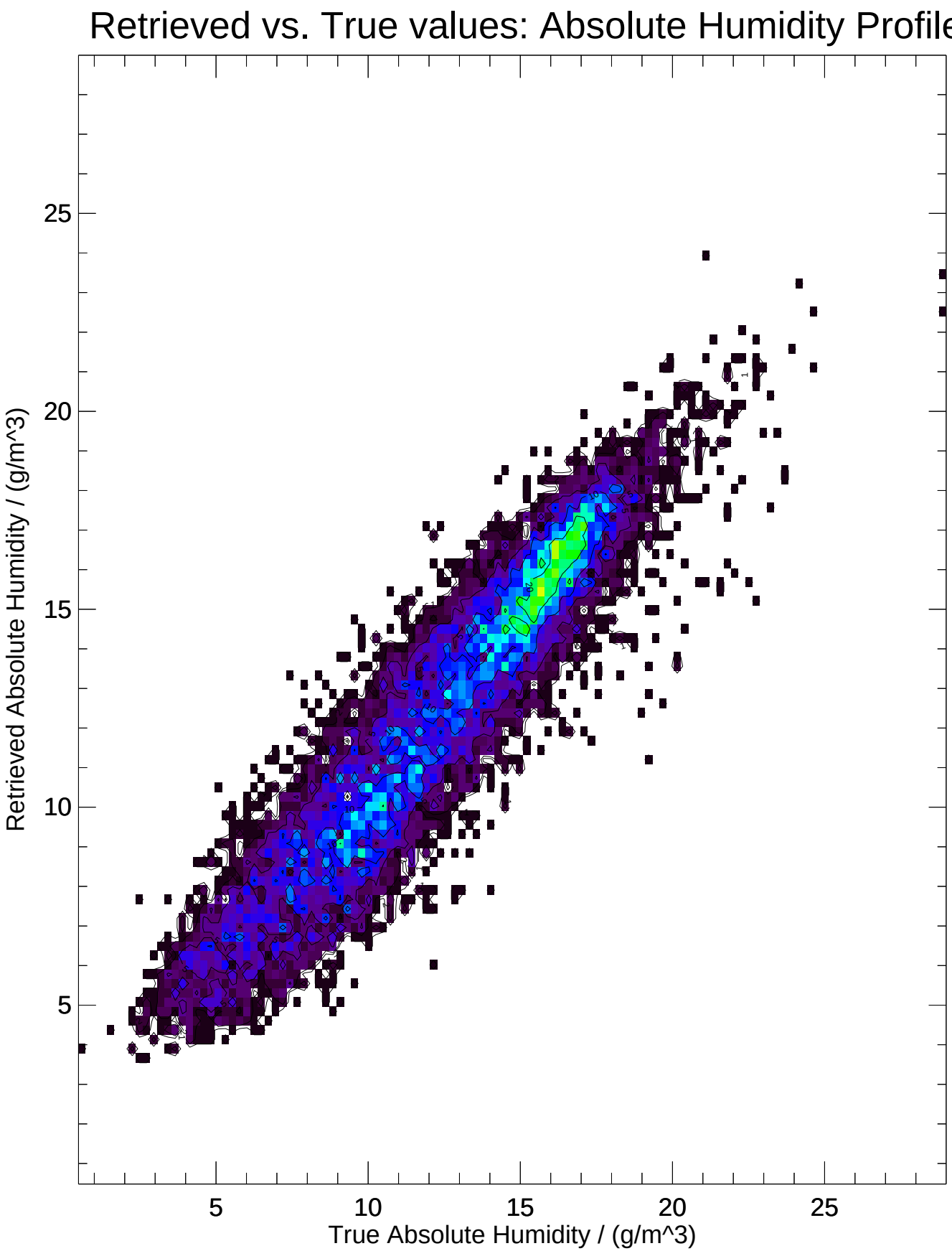

Relative Error (amplitude dependent)
Z = 130 m
Relative Error, normalized. HPC (thin line: Bias)
2.0
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=3
N=162
N=526
N=802
N=1156
N=1374
N=1231
N=1349
N=1701
N=1133
N=271
N=72
N=30
N=8
N=2

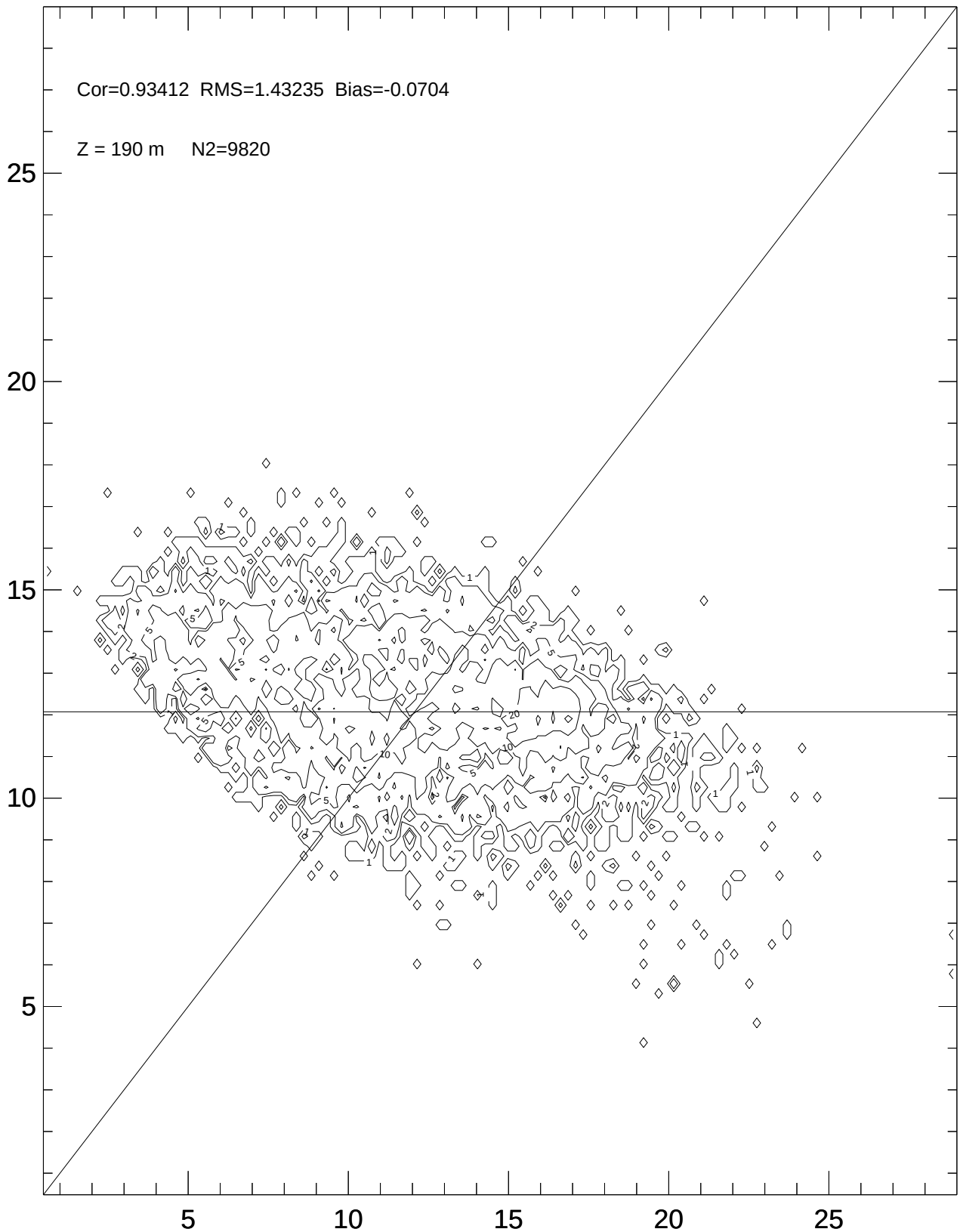

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25
5
10
15
20
25

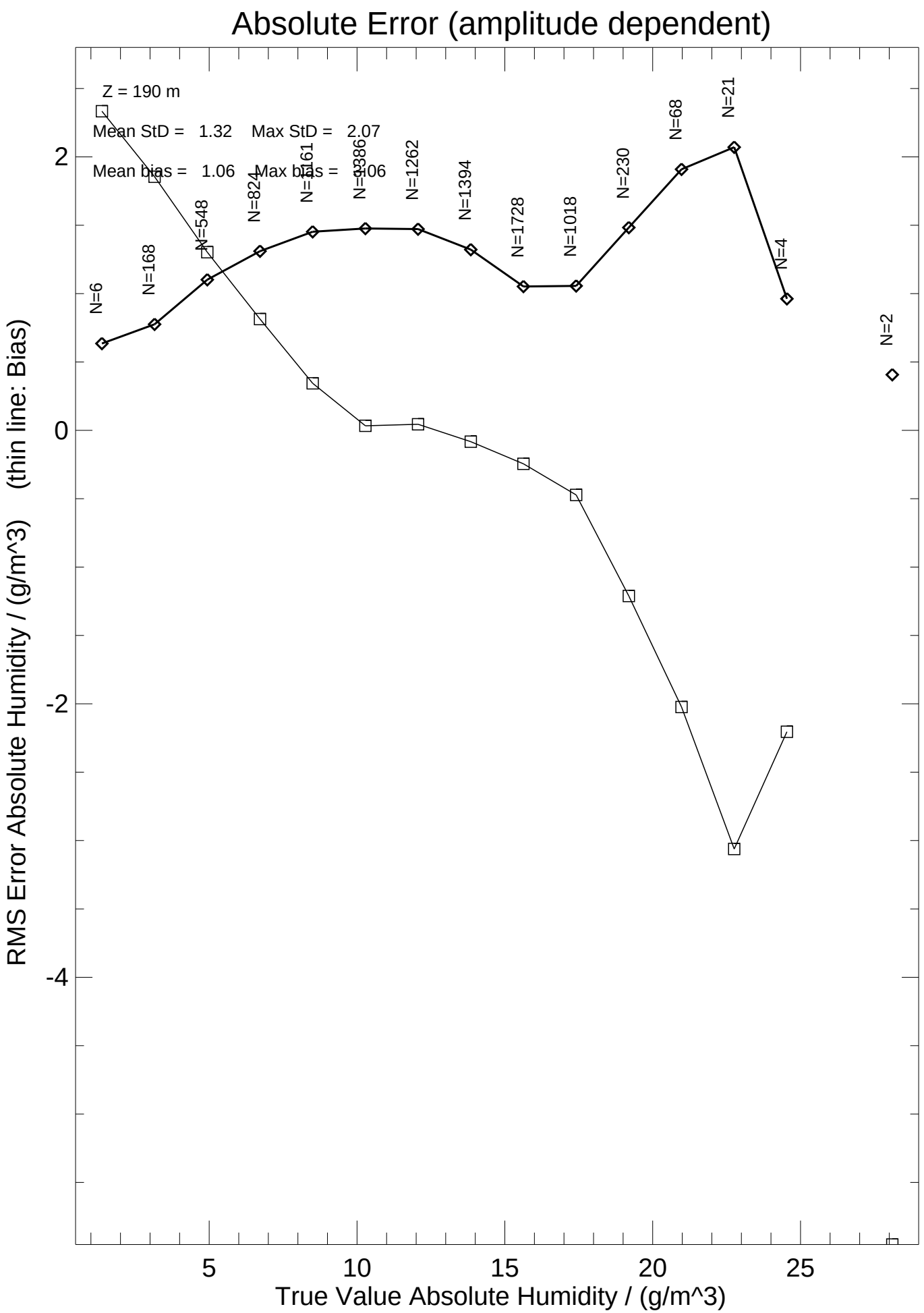

Cor=0.93345 RMS=1.45106 Bias=-0.0709
Z = 160 m N2=9820
25
20
15
10
5
5
10
15
20
25

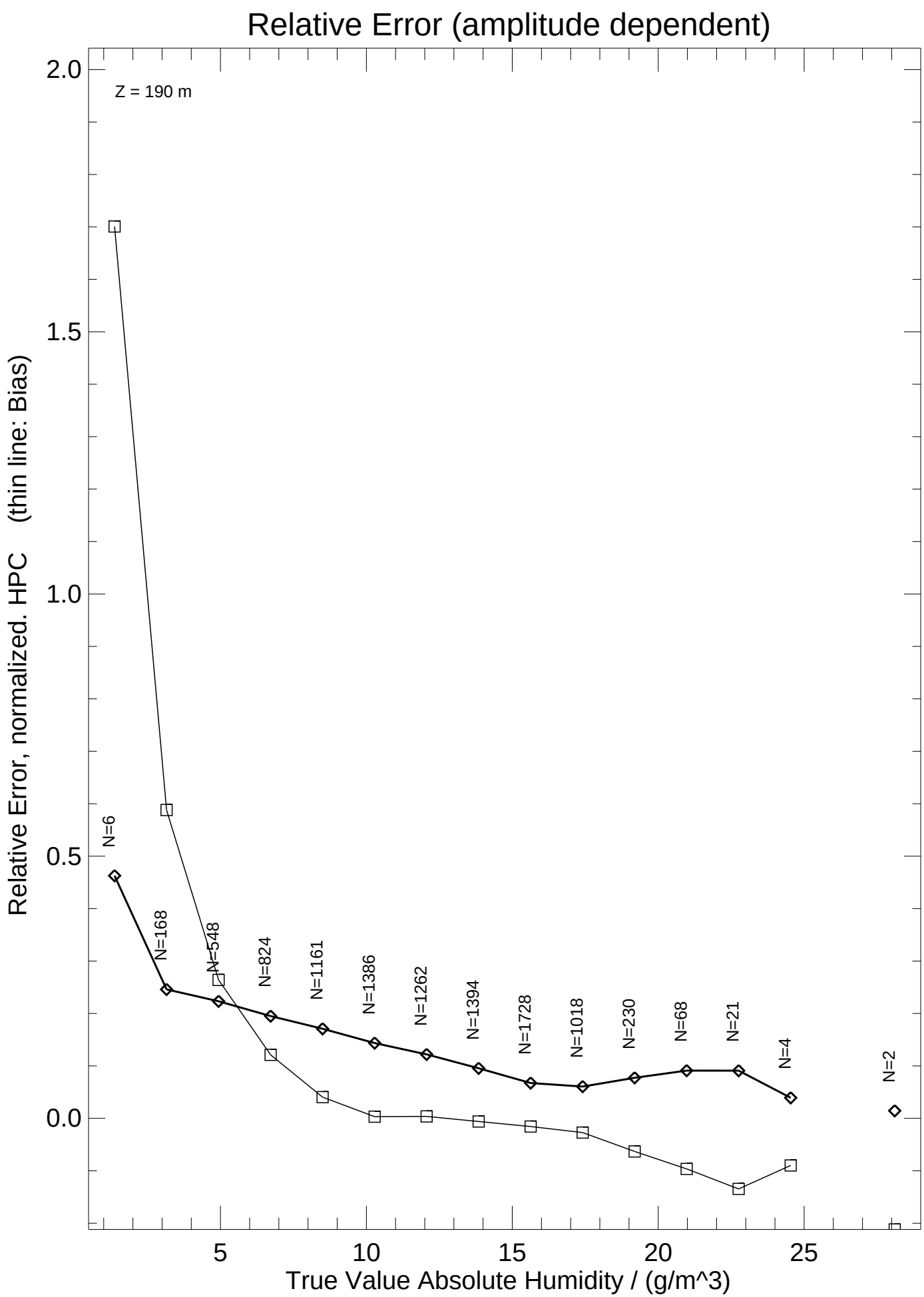

Absolute Error (amplitude dependent)
Z = 160 m
Mean StD = 1.40 Max StD = 2.01
Mean bias = 1.14 Max bias = 3.45
N=3
N=168
N=530
N=812
N=1139
N=1391
N=1240
N=1368
N=1720
N=1087
N=254
N=71
N=28
N=7
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
5
10
15
20
25

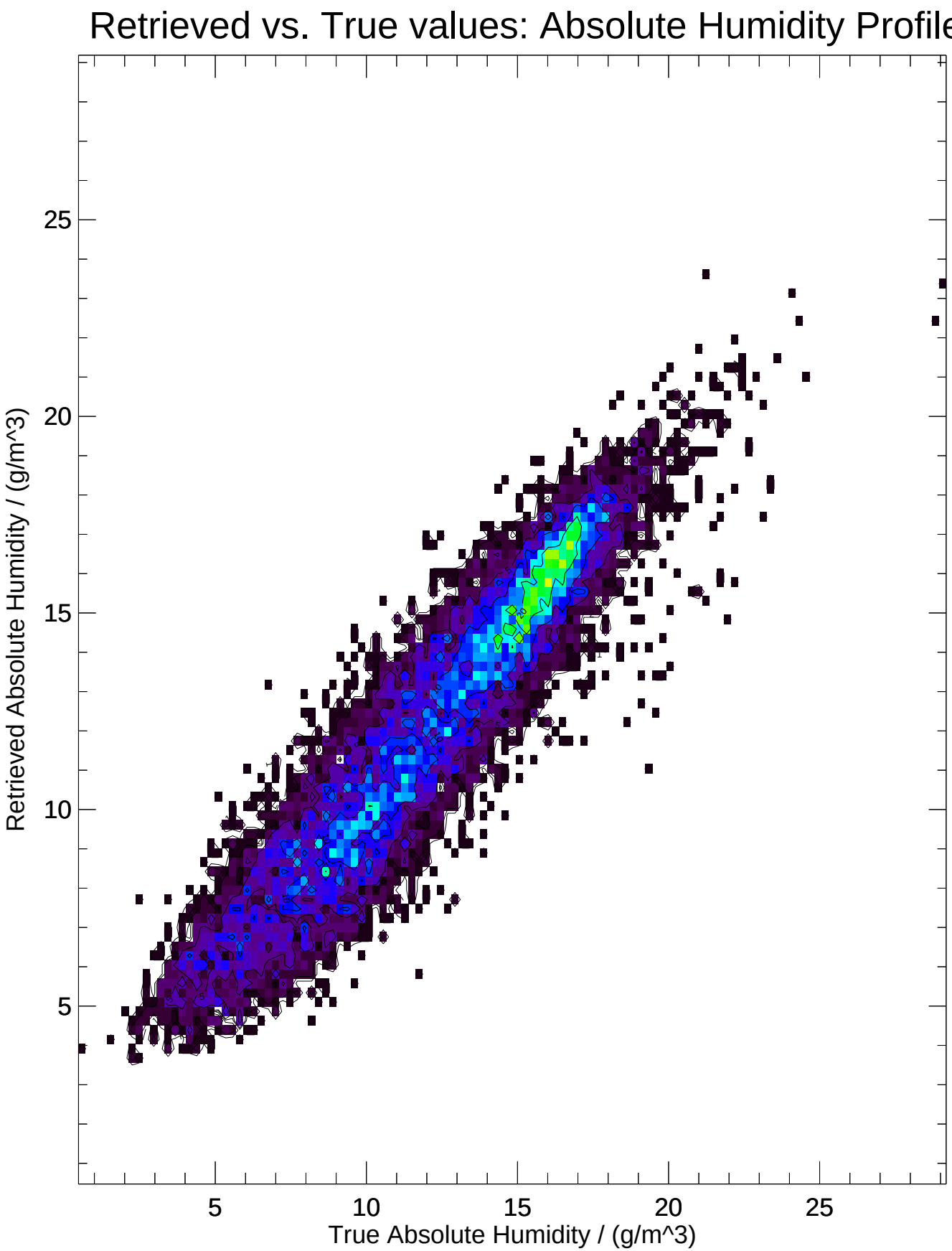

Relative Error (amplitude dependent)
Z = 160 m
Relative Error, normalized. HPC (thin line: Bias)
2.0
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=3
N=168
N=530
N=812
N=1139
N=1391
N=1240
N=1368
N=1720
N=1087
N=254
N=71
N=28
N=7
N=2

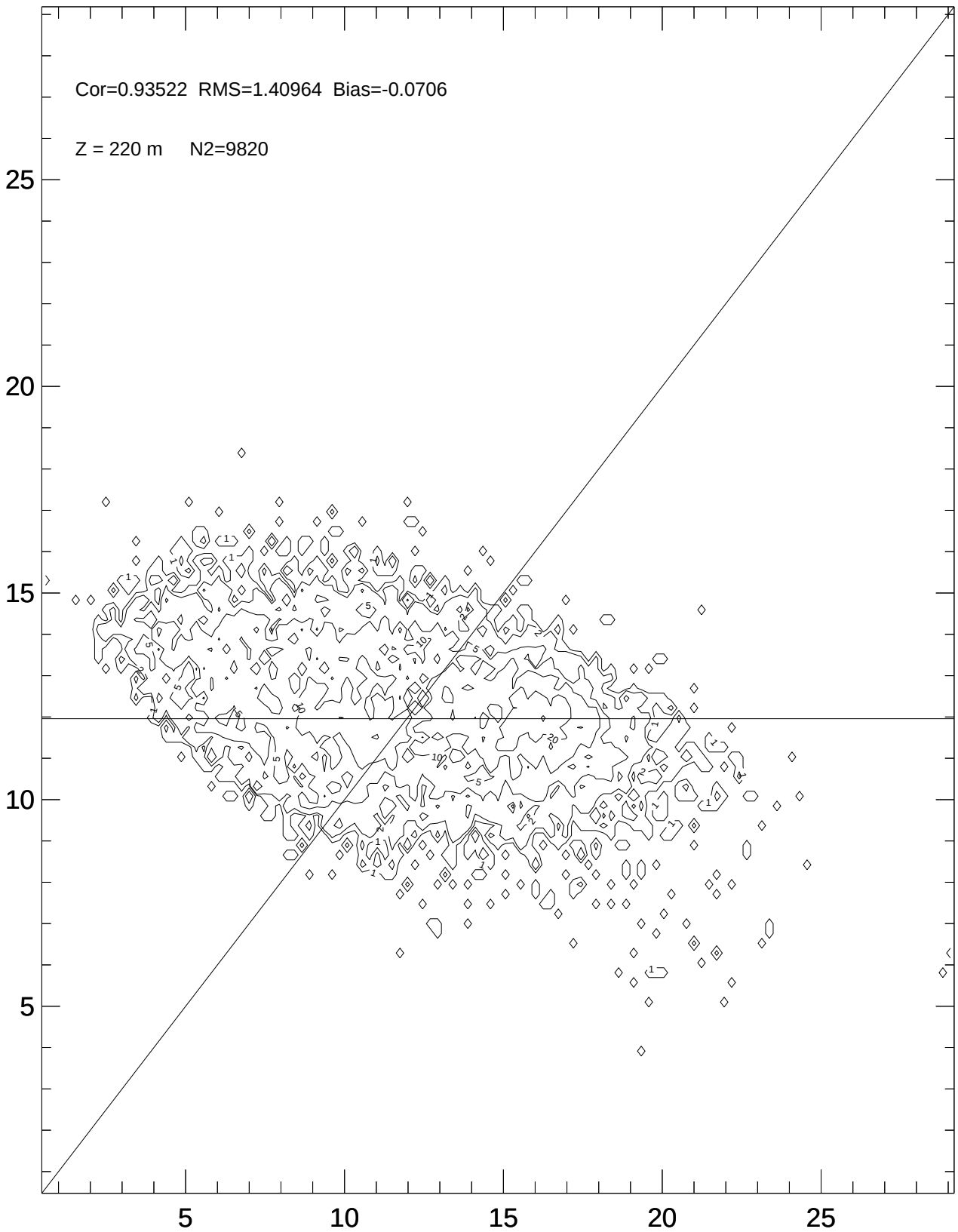

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

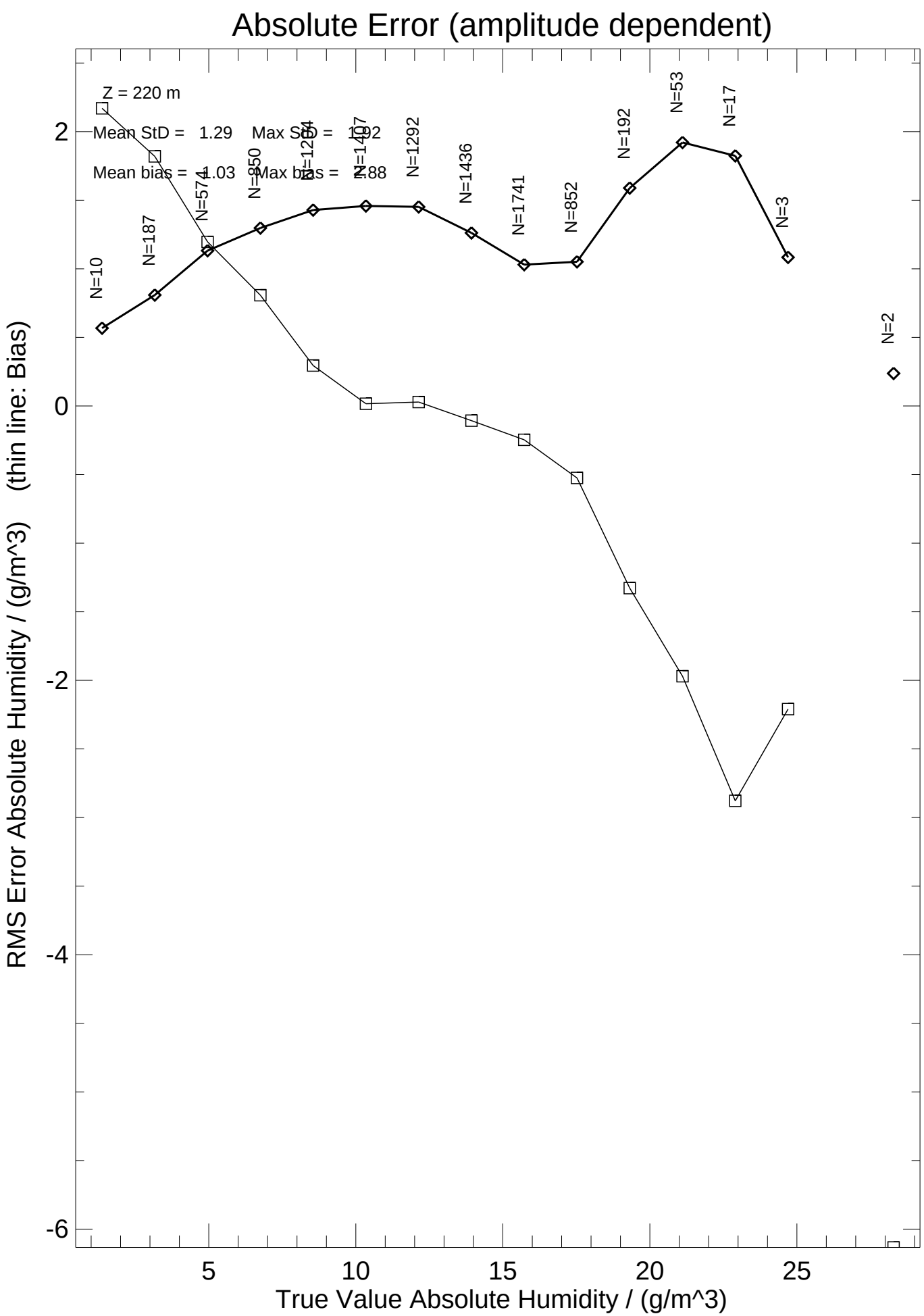

Cor=0.93412 RMS=1.43235 Bias=-0.0704
Z = 190 m N2=9820
25
20
15
10
5
5
10
15
20
25

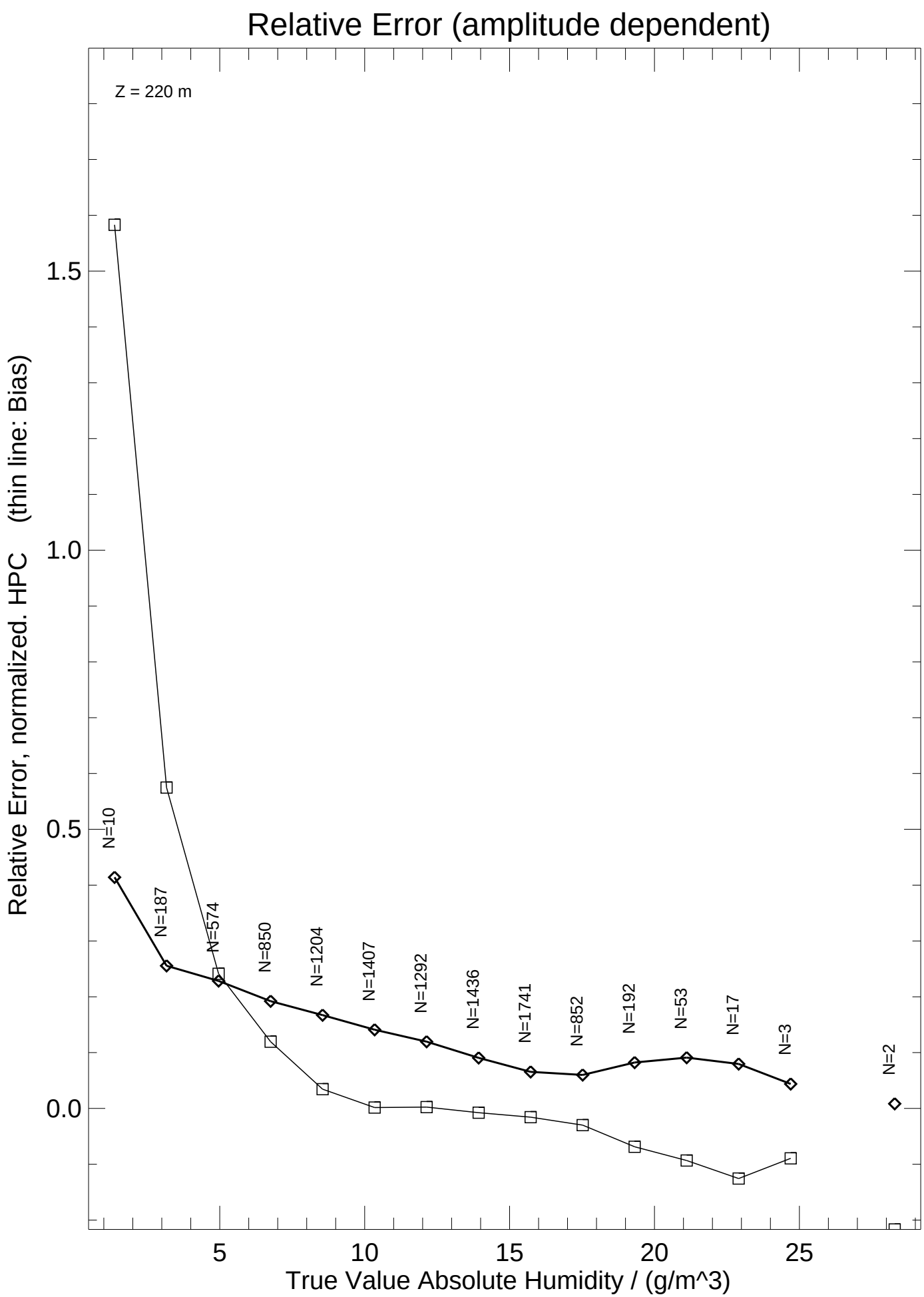

Absolute Error (amplitude dependent)
Z = 190 m
Mean StD = 1.32 Max StD = 2.07
Mean bias = 1.06 Max bias = 3.06
N=6
N=168
N=548
N=824
N=1161
N=1386
N=1262
N=1394
N=1728
N=1018
N=230
N=68
N=21
N=4
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
5
10
15
20
25

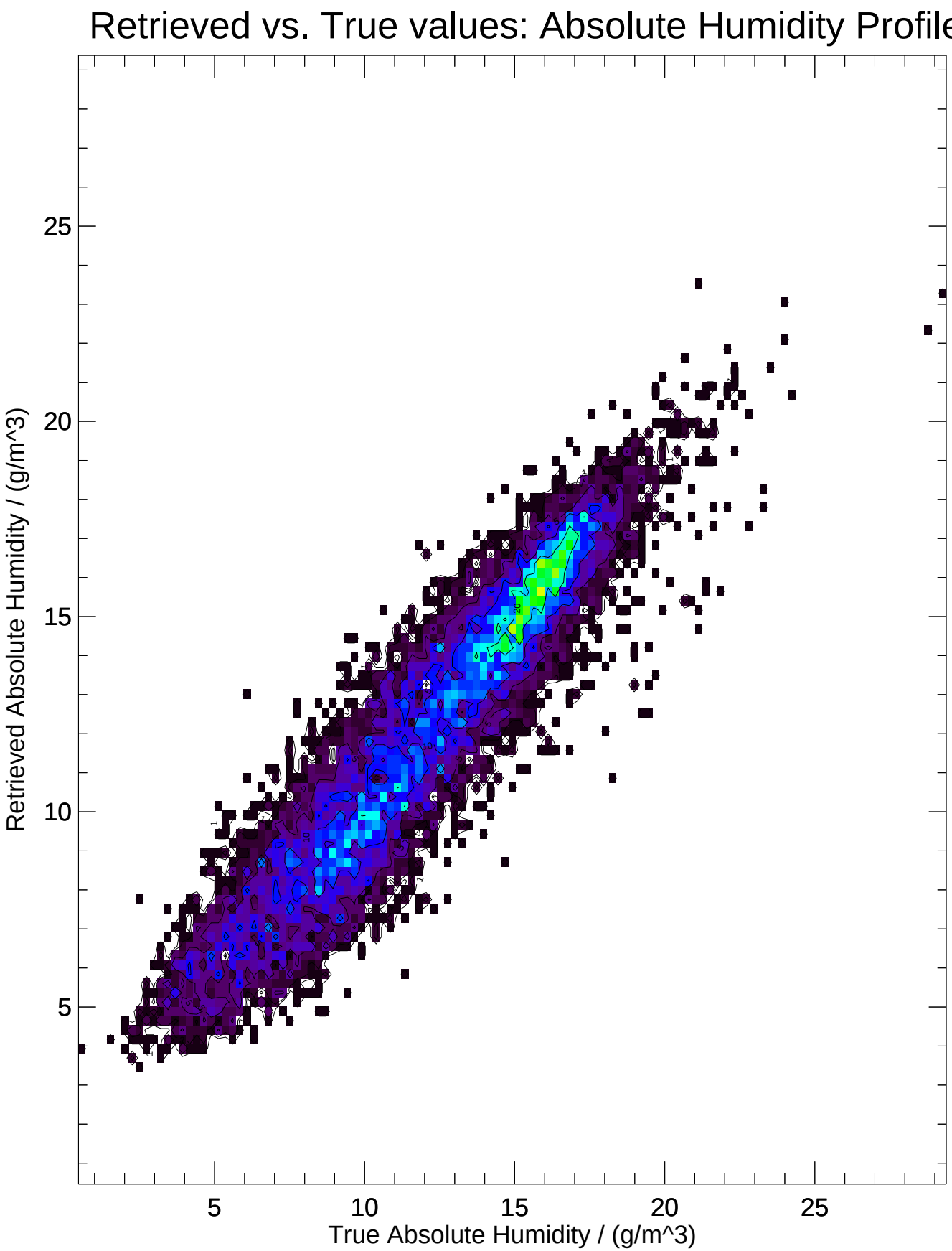

Relative Error (amplitude dependent)
Z = 190 m
Relative Error, normalized. HPC (thin line: Bias)
2.0
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=6
N=168
N=548
N=824
N=1161
N=1386
N=1262
N=1394
N=1728
N=1018
N=230
N=68
N=21
N=4
N=2

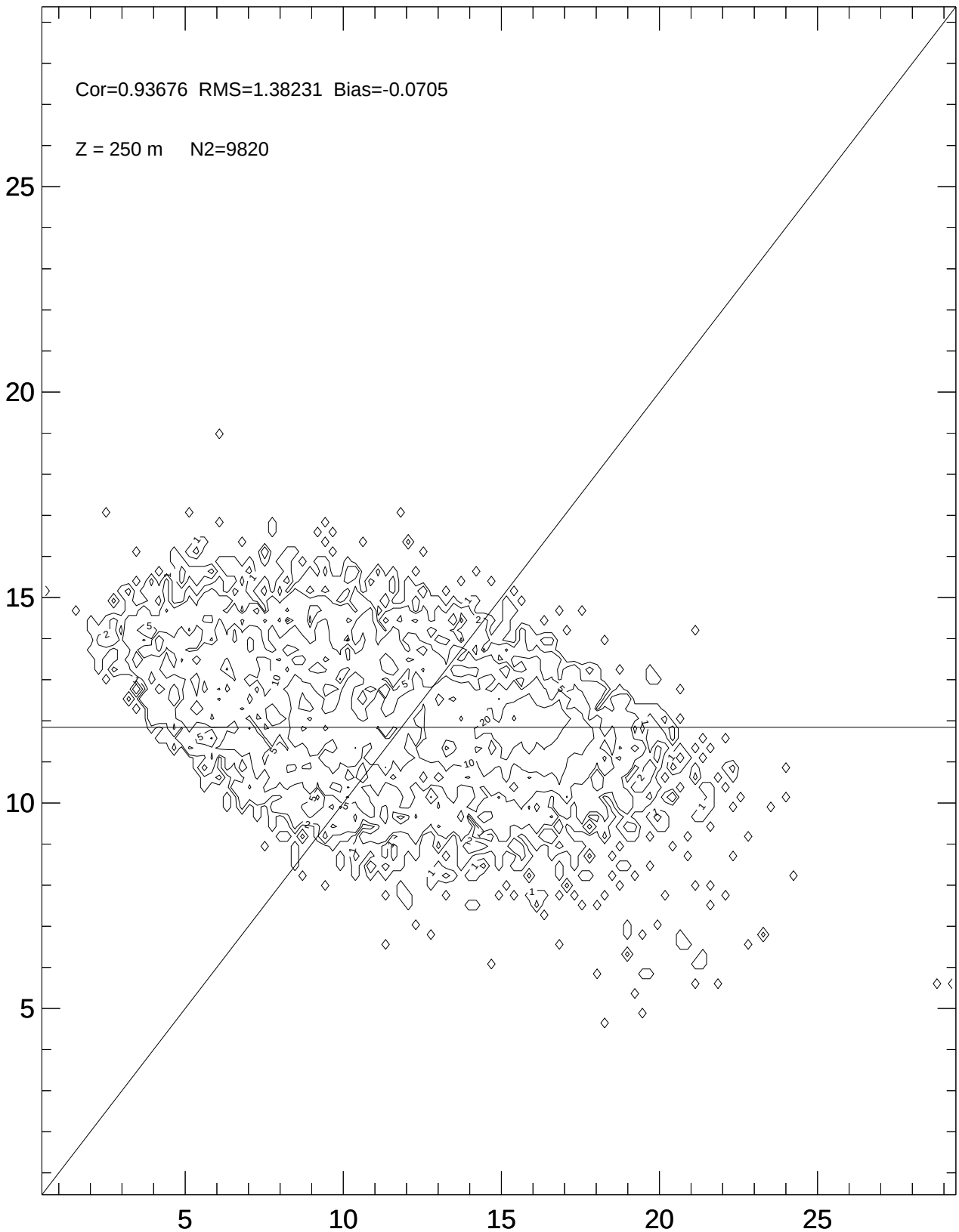

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

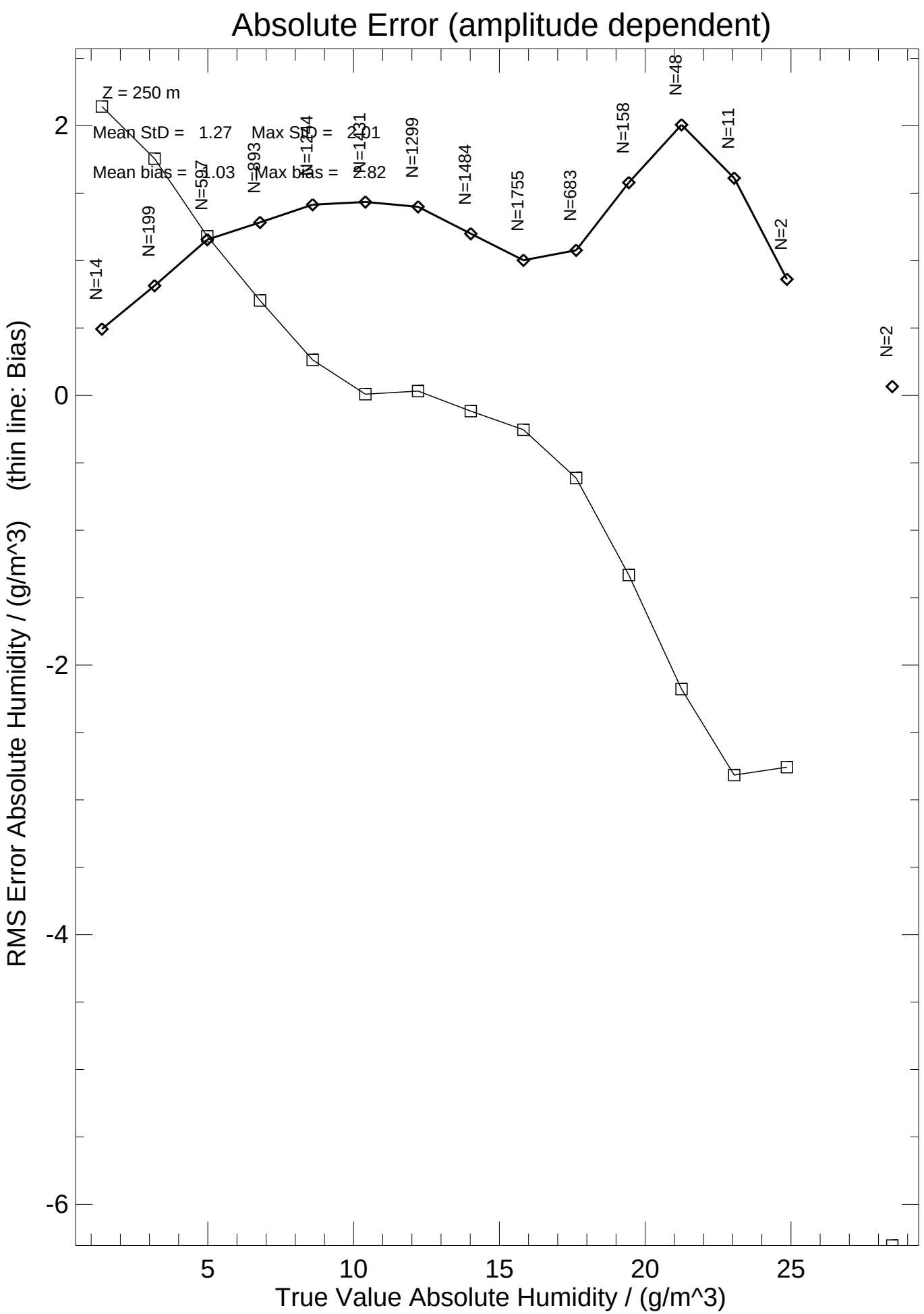

Cor=0.93522 RMS=1.40964 Bias=-0.0706
Z = 220 m N2=9820
25
20
15
10
5
5
10
15
20
25

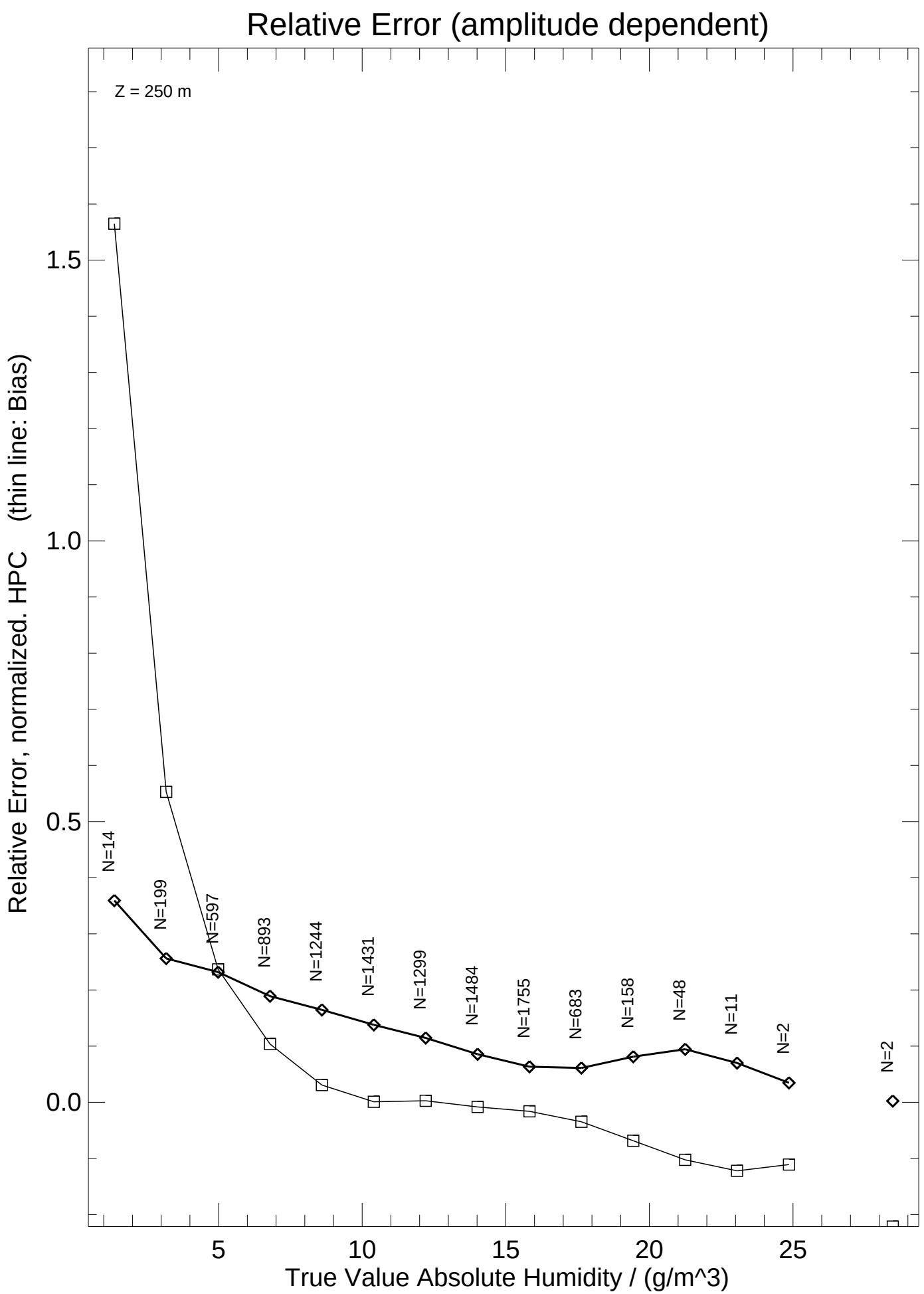

Absolute Error (amplitude dependent)
Z = 220 m
Mean StD = 1.29 Max StD = 1.92
Mean bias = -1.03 Max bias = -2.88
N=10
N=187
N=574
N=850
N=1294
N=1407
N=1292
N=1436
N=1741
N=852
N=192
N=53
N=17
N=3
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

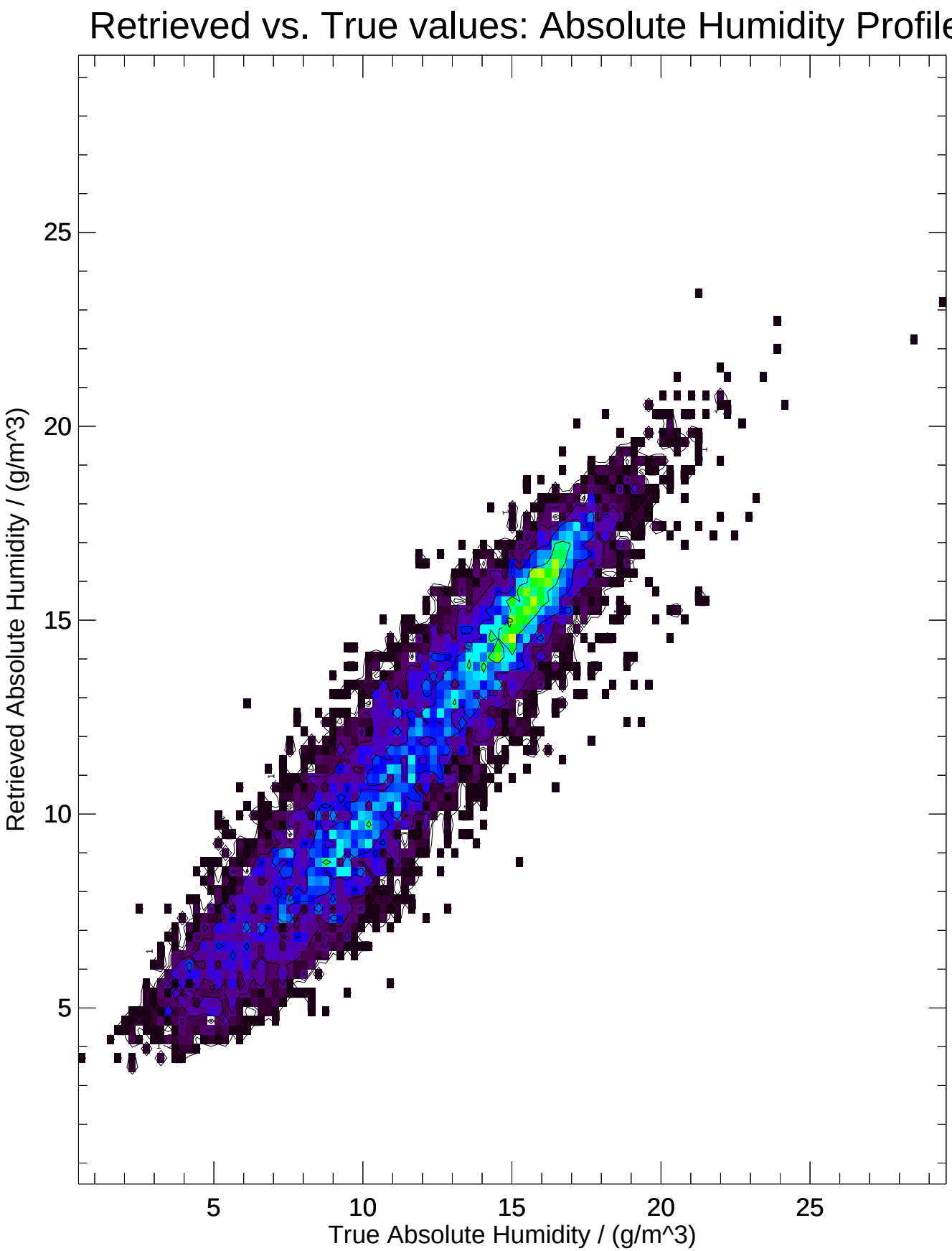

Relative Error (amplitude dependent)
Z = 220 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=10
N=187
N=574
N=850
N=1204
N=1407
N=1292
N=1436
N=1741
N=852
N=192
N=53
N=17
N=3
N=2

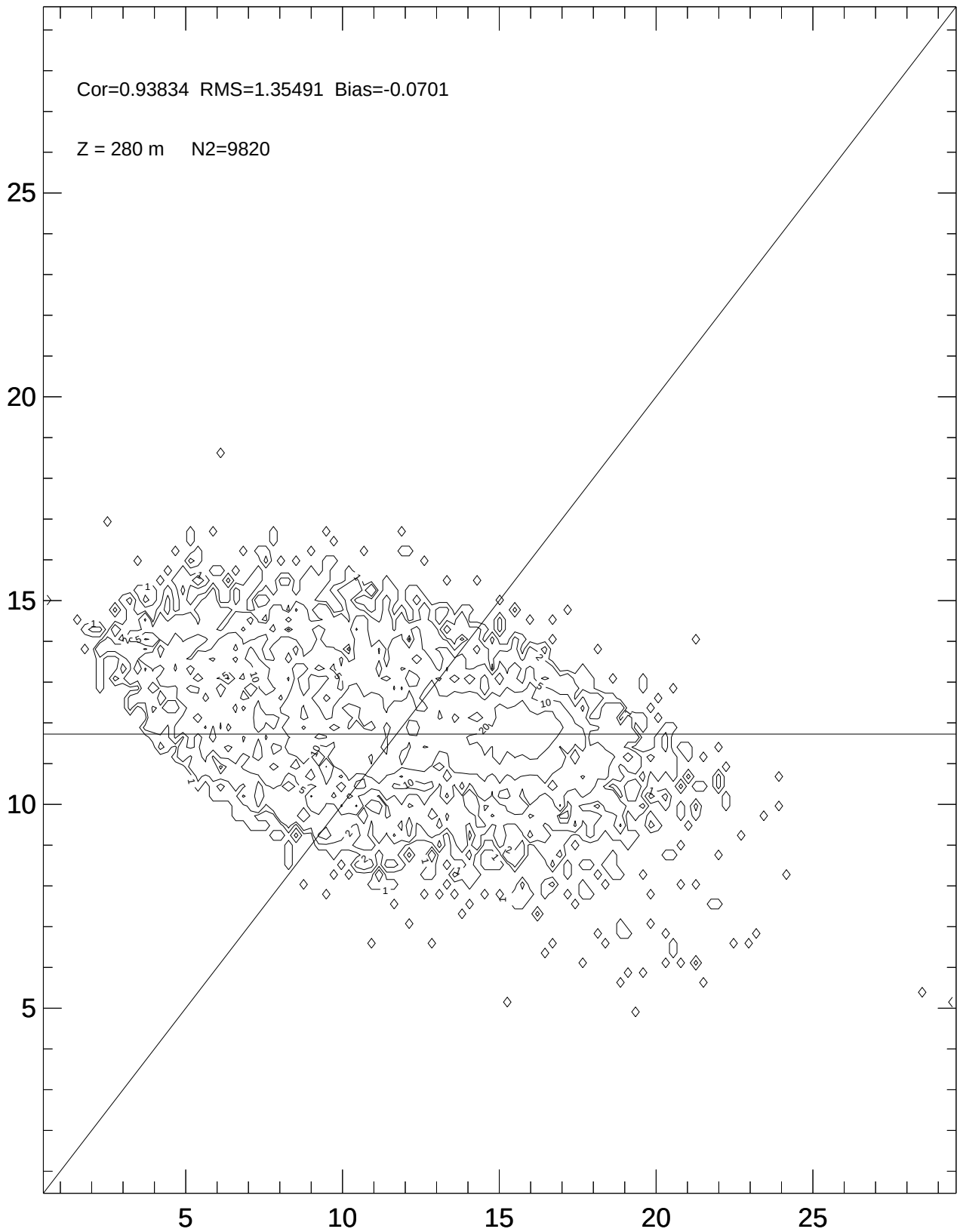

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

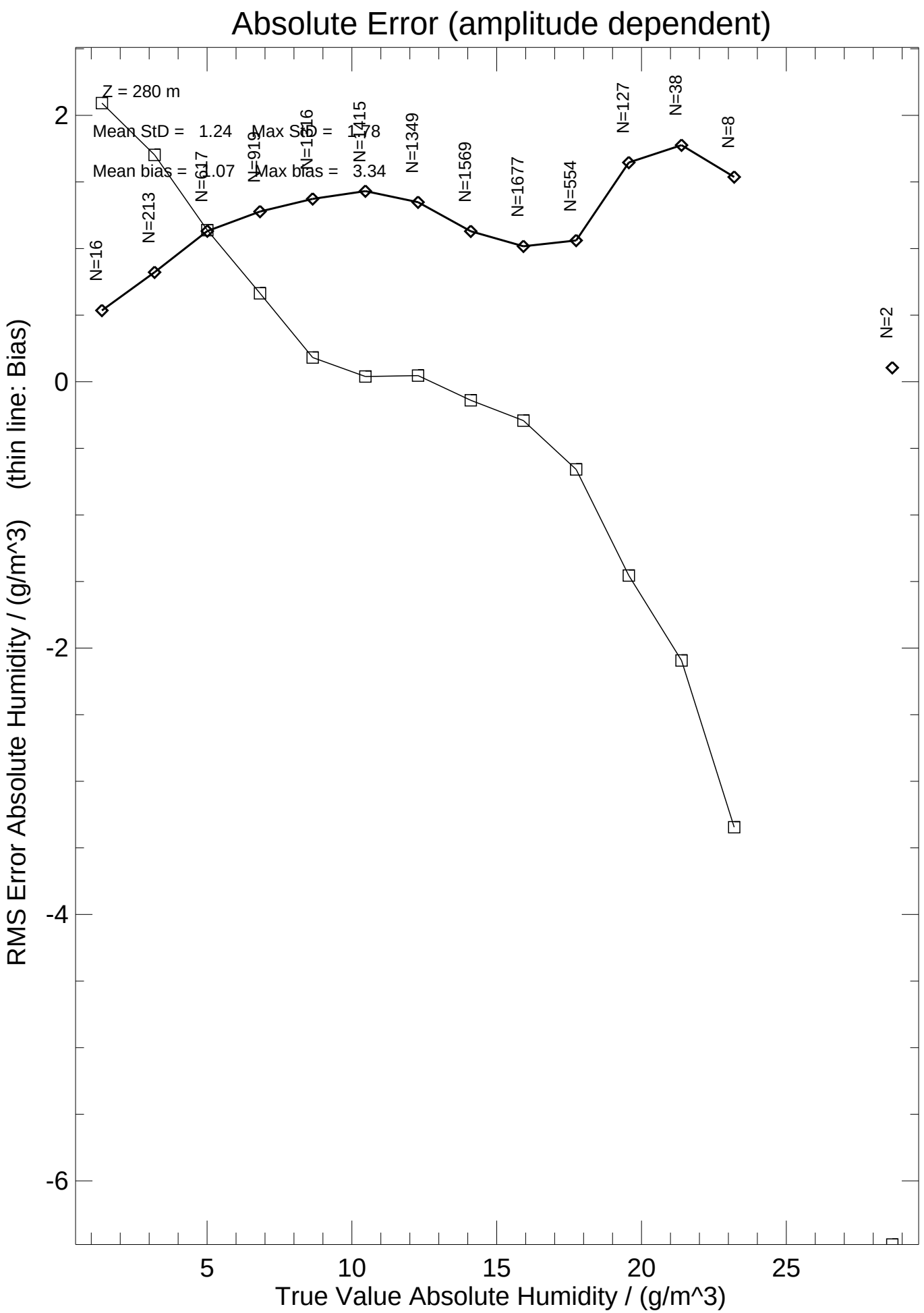

Cor=0.93676 RMS=1.38231 Bias=-0.0705
Z = 250 m N2=9820
25
20
15
10
5
5
10
15
20
25

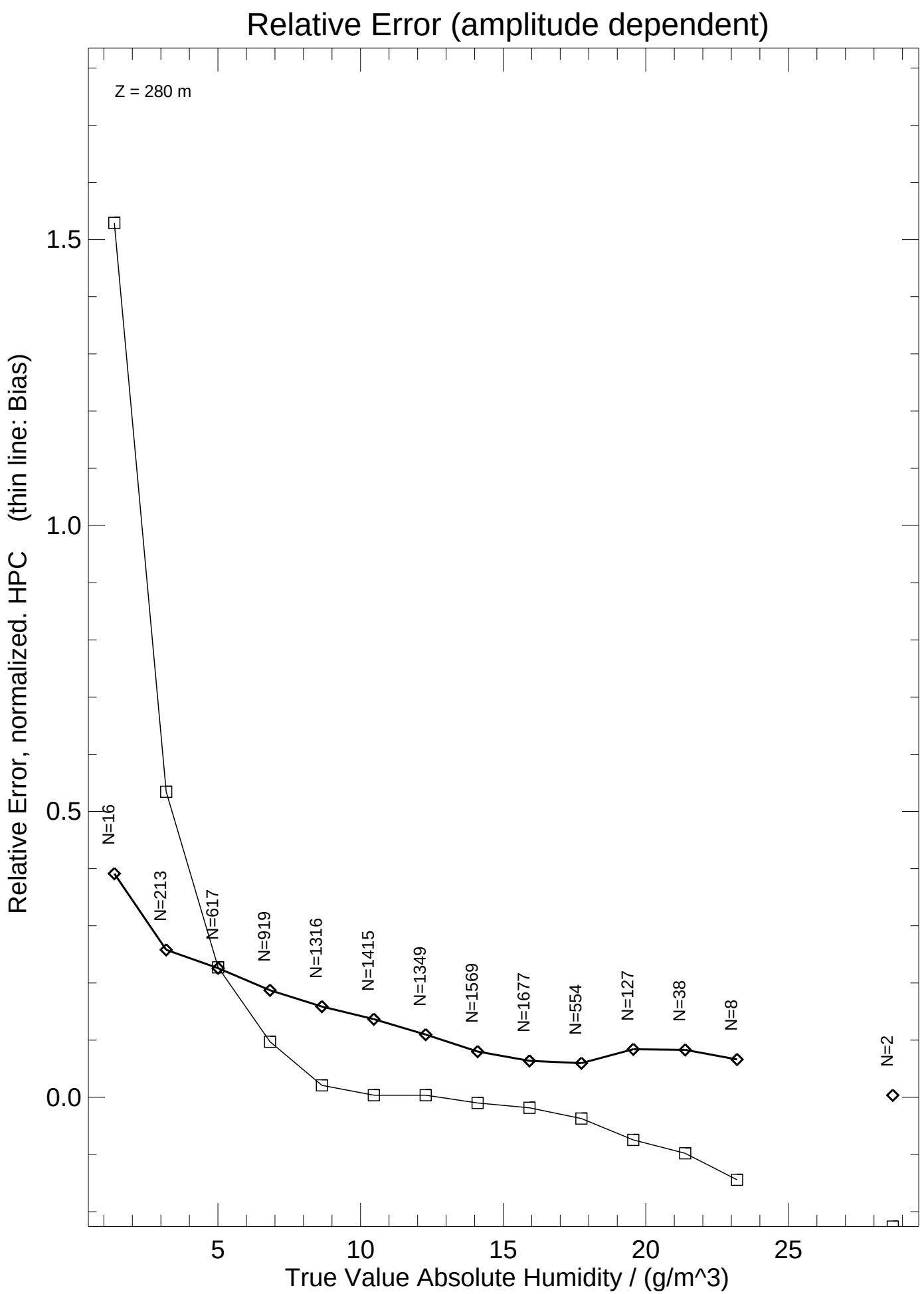

Absolute Error (amplitude dependent)
Z = 250 m
Mean StD = 1.27 Max StD = 2.01
Mean bias = -1.03 Max bias = -2.82
N=14
N=199
N=597
N=893
N=1244
N=1431
N=1299
N=1484
N=1755
N=683
N=158
N=48
N=11
N=2
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

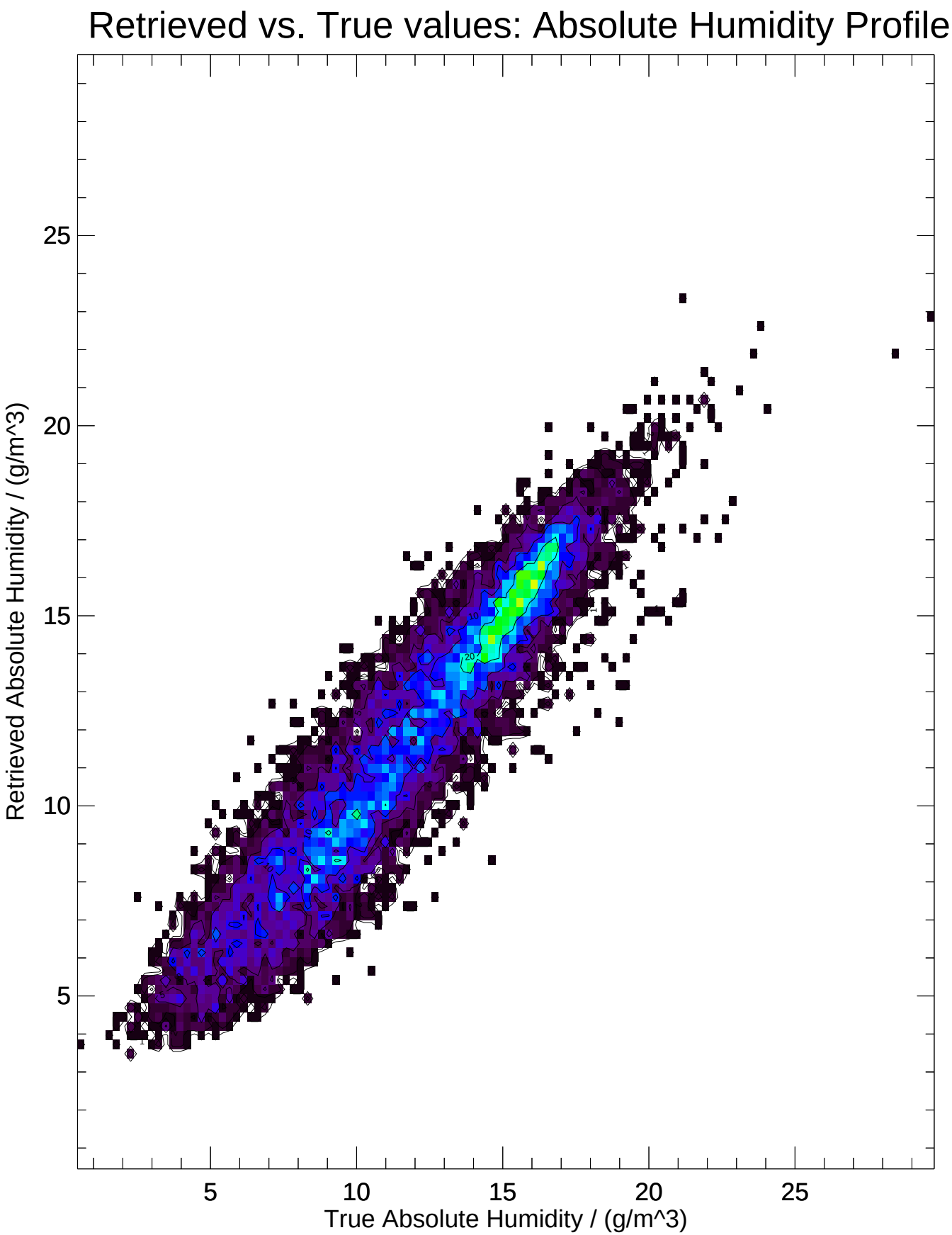

Relative Error (amplitude dependent)
Z = 250 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
N=14
N=199
N=597
N=893
N=1244
N=1431
N=1299
N=1484
N=1755
N=683
N=158
N=48
N=11
N=2
N=2
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)

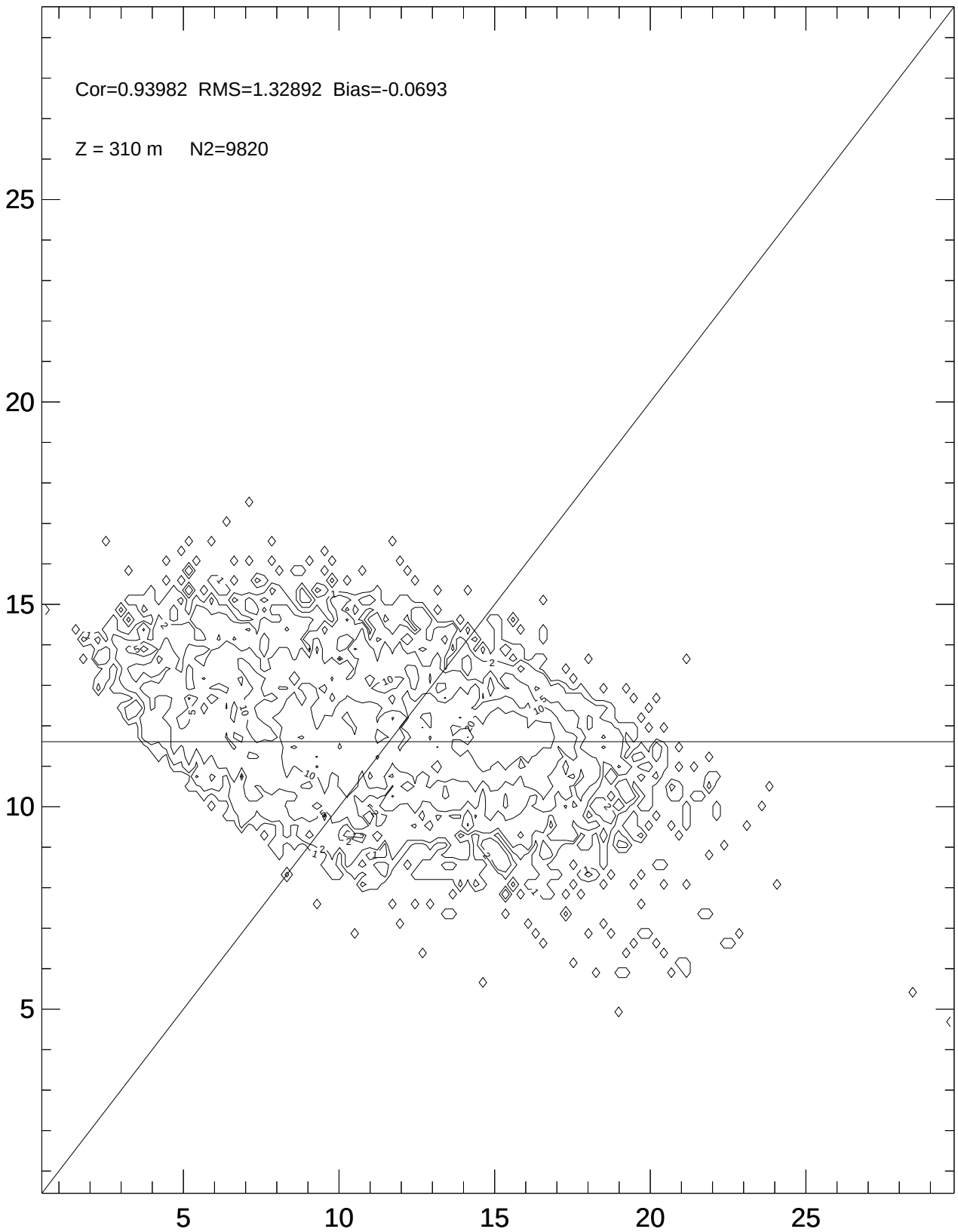

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

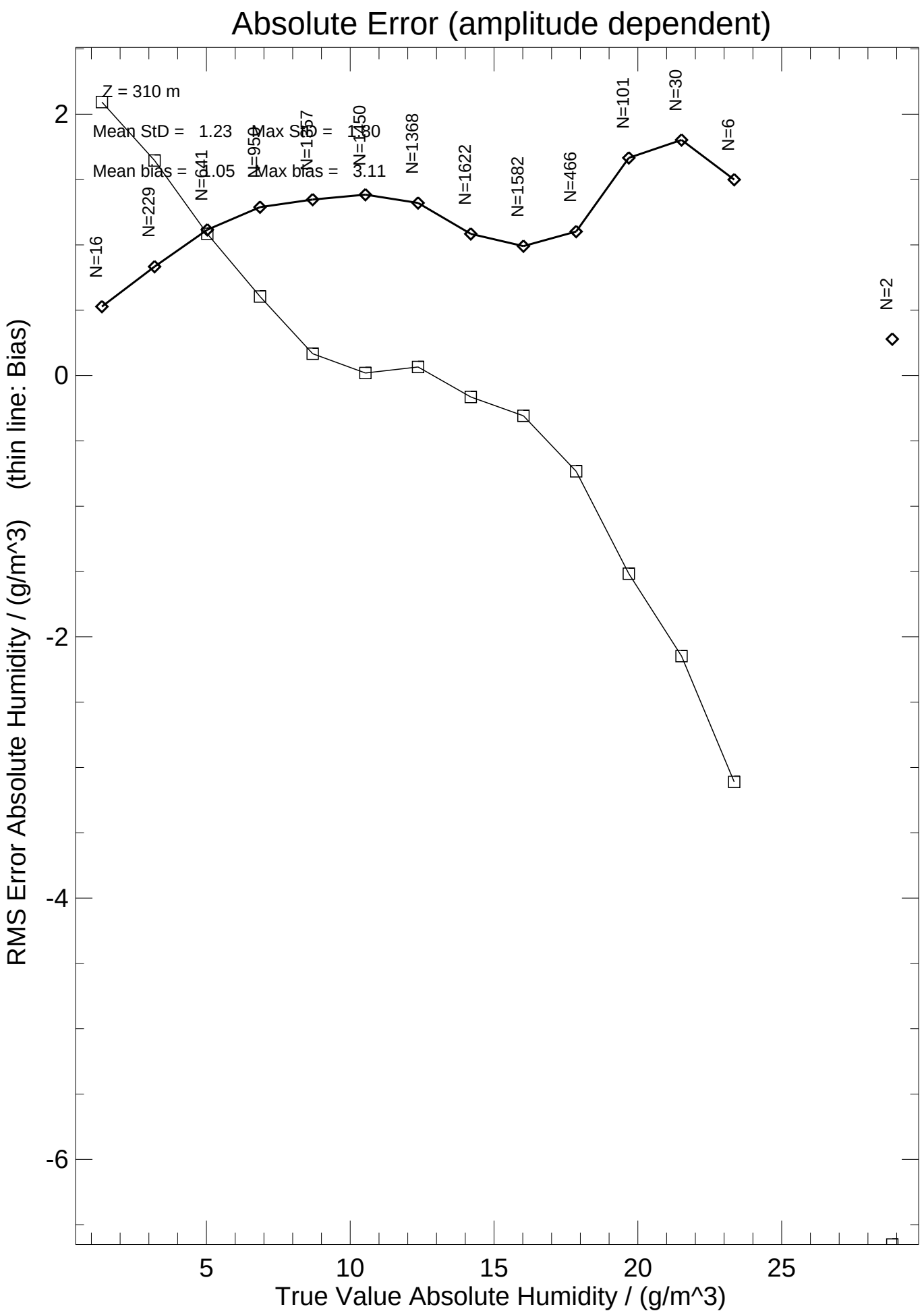

Cor=0.93834 RMS=1.35491 Bias=-0.0701
Z = 280 m N2=9820
25
20
15
10
5
5
10
15
20
25

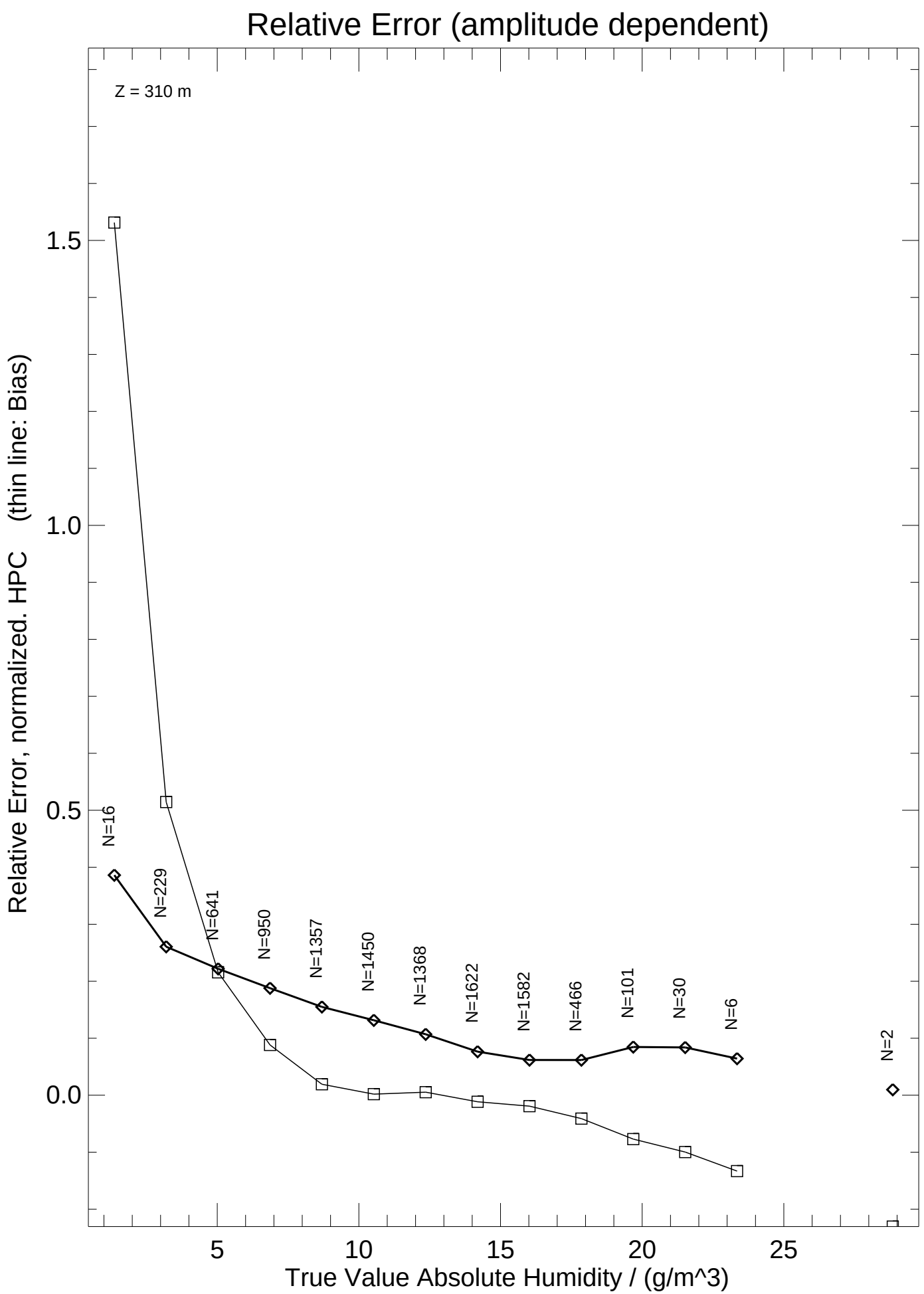

Absolute Error (amplitude dependent)
Z = 280 m
Mean StD = 1.24 Max StD = 1.78
Mean bias = 1.07 Max bias = 3.34
N=16
N=213
N=617
N=916
N=1316
N=1415
N=1349
N=1569
N=1677
N=554
N=127
N=38
N=8
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

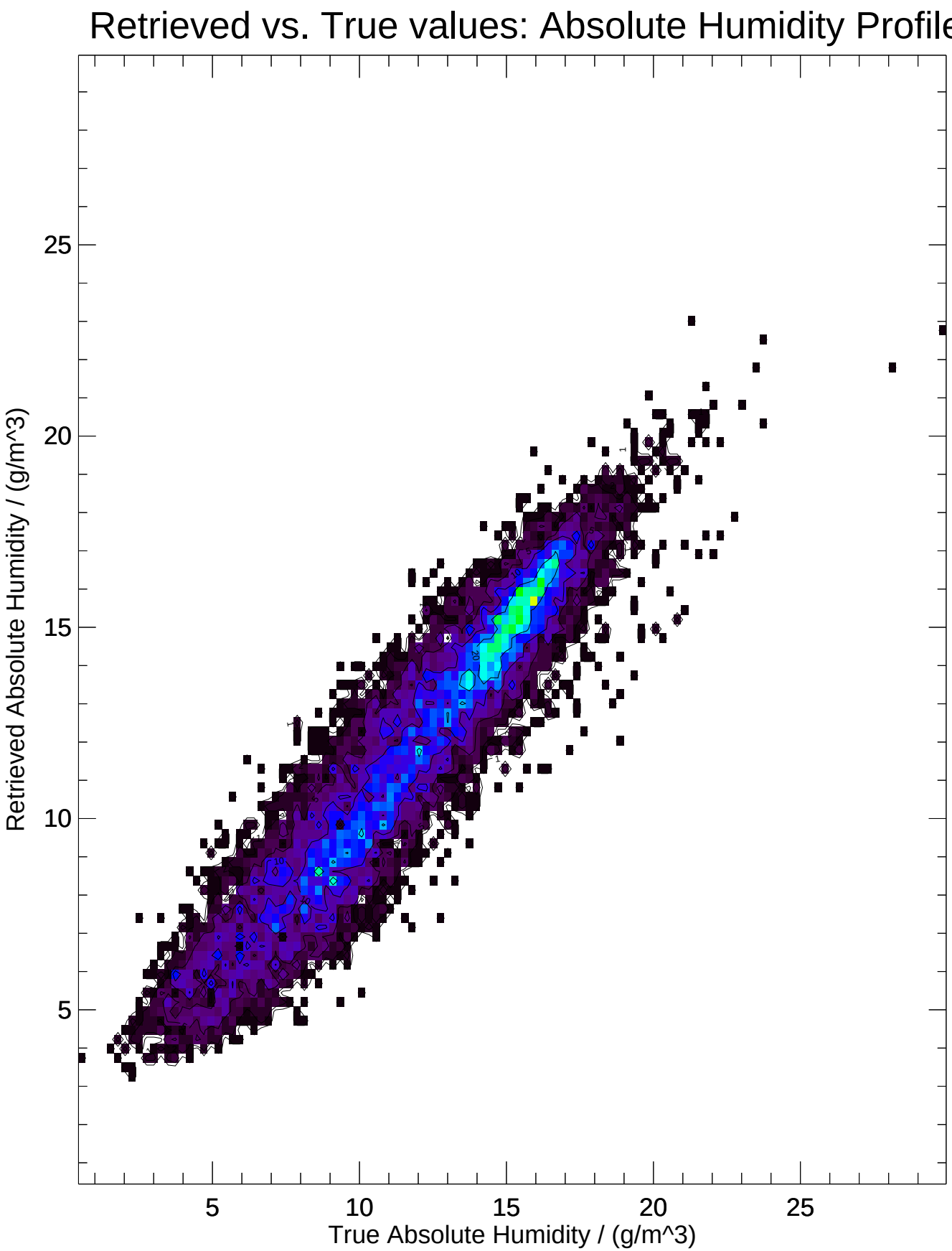

Relative Error (amplitude dependent)
Z = 280 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=16
N=213
N=617
N=919
N=1316
N=1415
N=1349
N=1569
N=1677
N=554
N=127
N=38
N=8
N=2

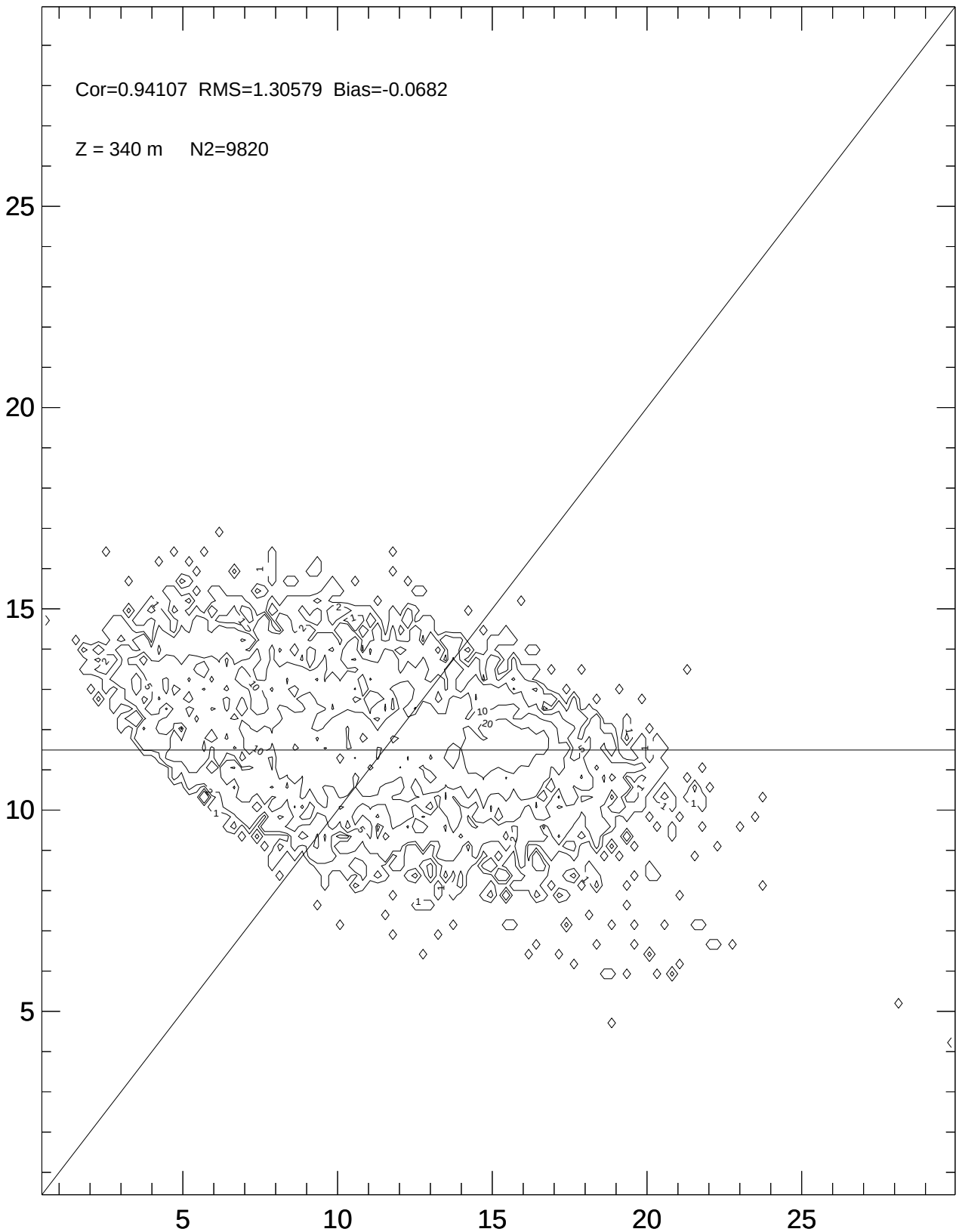

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

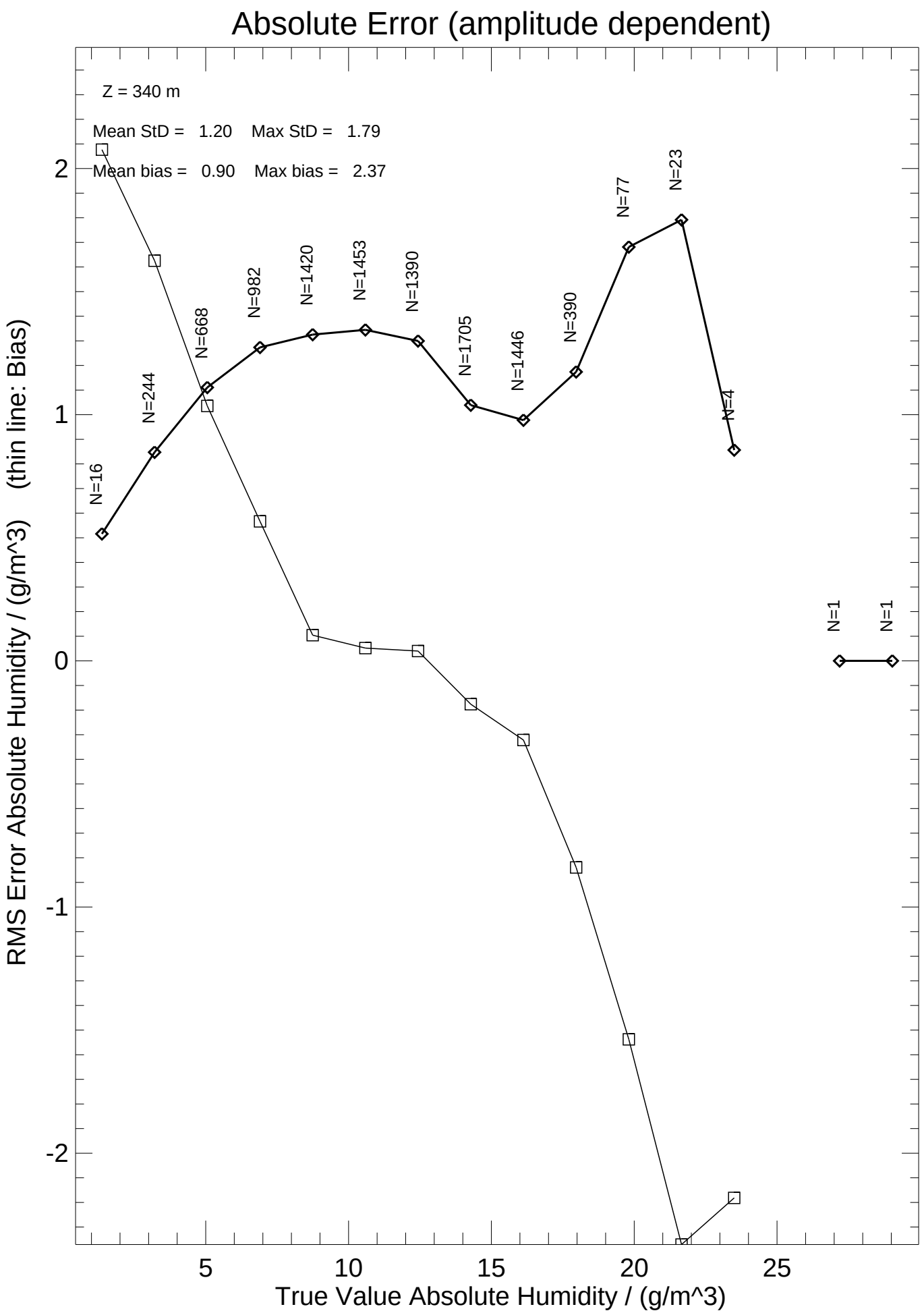

Cor=0.93982 RMS=1.32892 Bias=-0.0693
Z = 310 m N2=9820
25
20
15
10
5
5
10
15
20
25

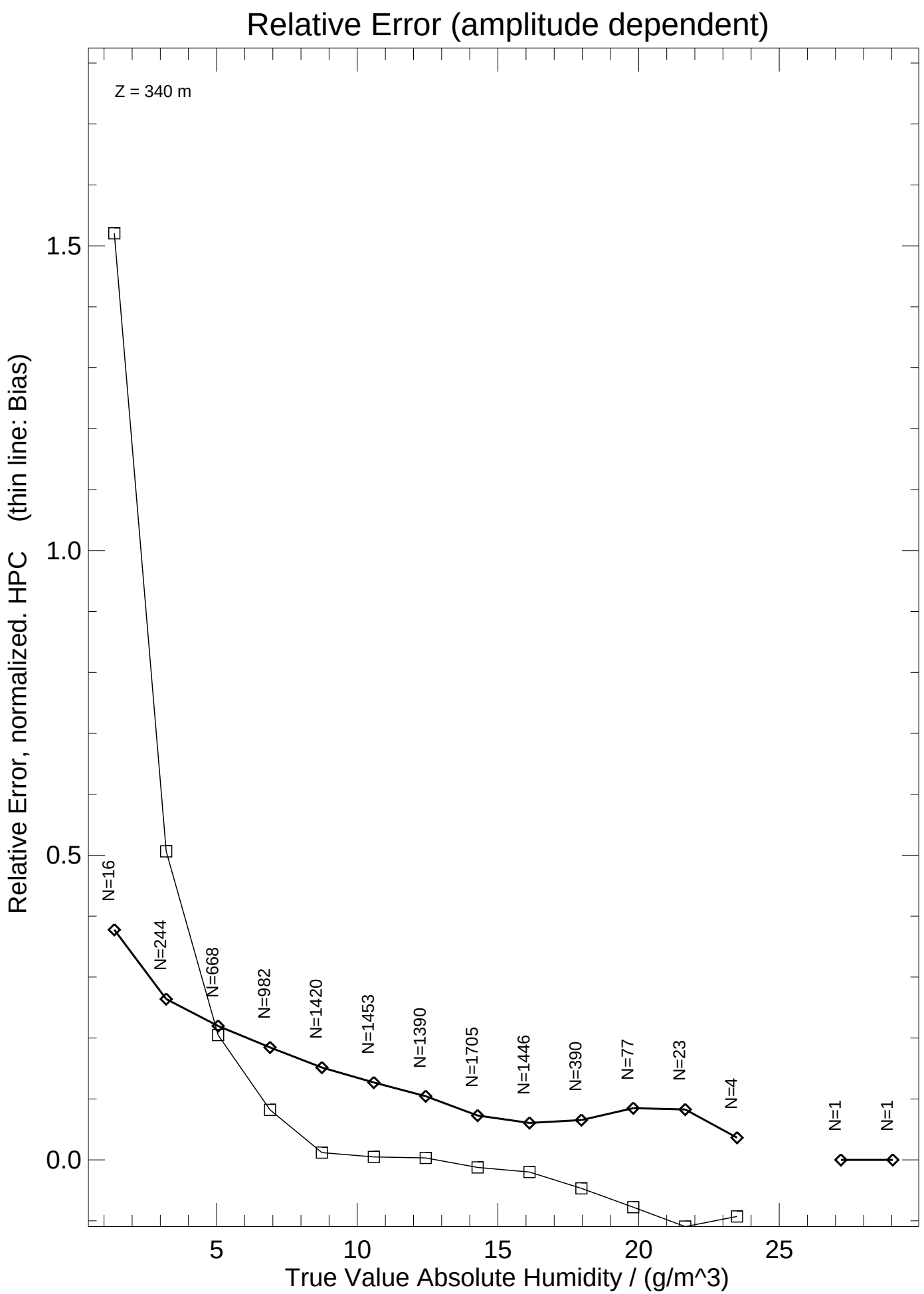

Absolute Error (amplitude dependent)
Z = 310 m
Mean StD = 1.23 Max StD = 1.80
Mean bias = 1.05 Max bias = 3.11
N=16
N=229
N=641
N=954
N=1357
N=1450
N=1368
N=1622
N=1582
N=466
N=101
N=30
N=6
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

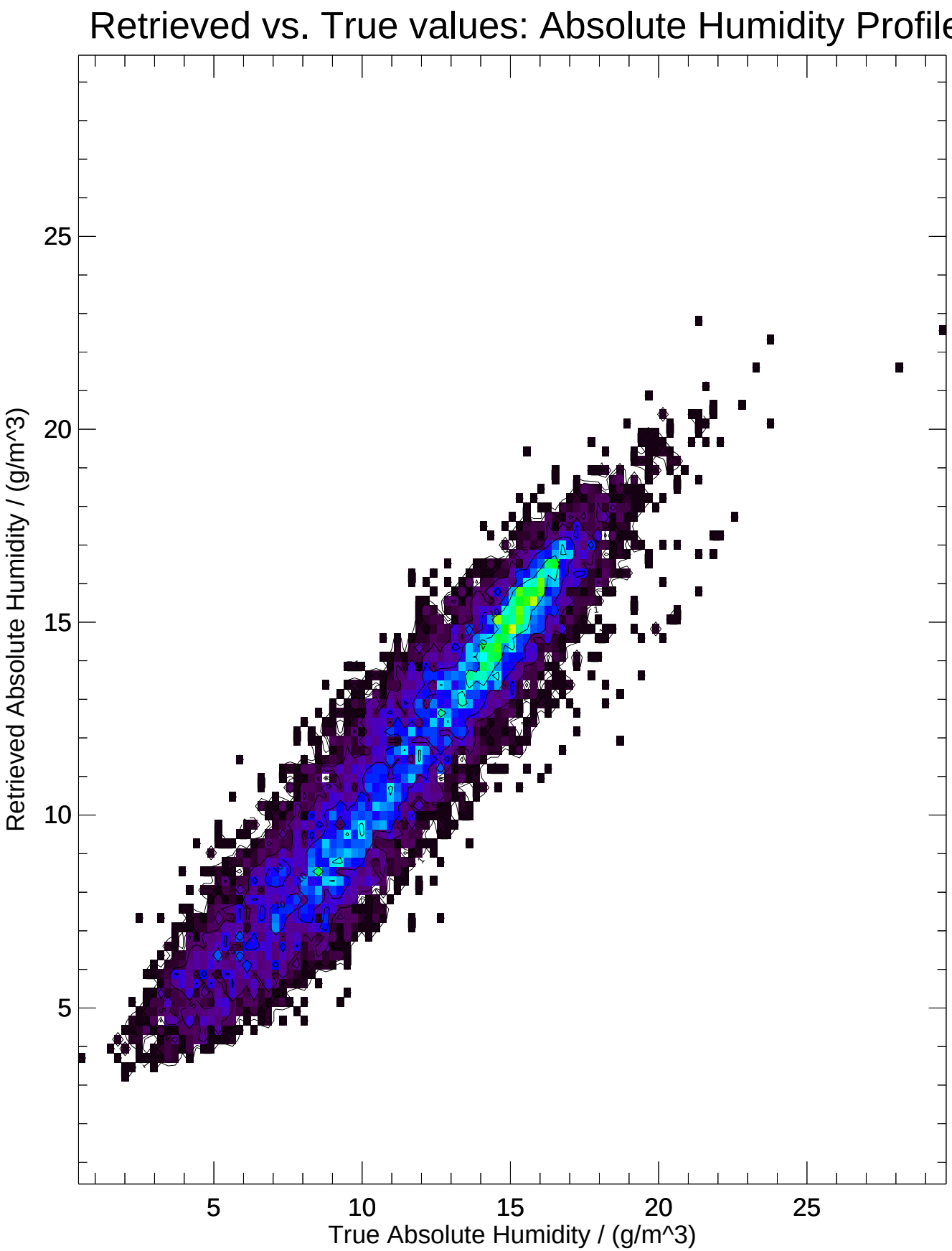

Relative Error (amplitude dependent)
Z = 310 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=16
N=229
N=641
N=950
N=1357
N=1450
N=1368
N=1622
N=1582
N=466
N=101
N=30
N=6
N=2

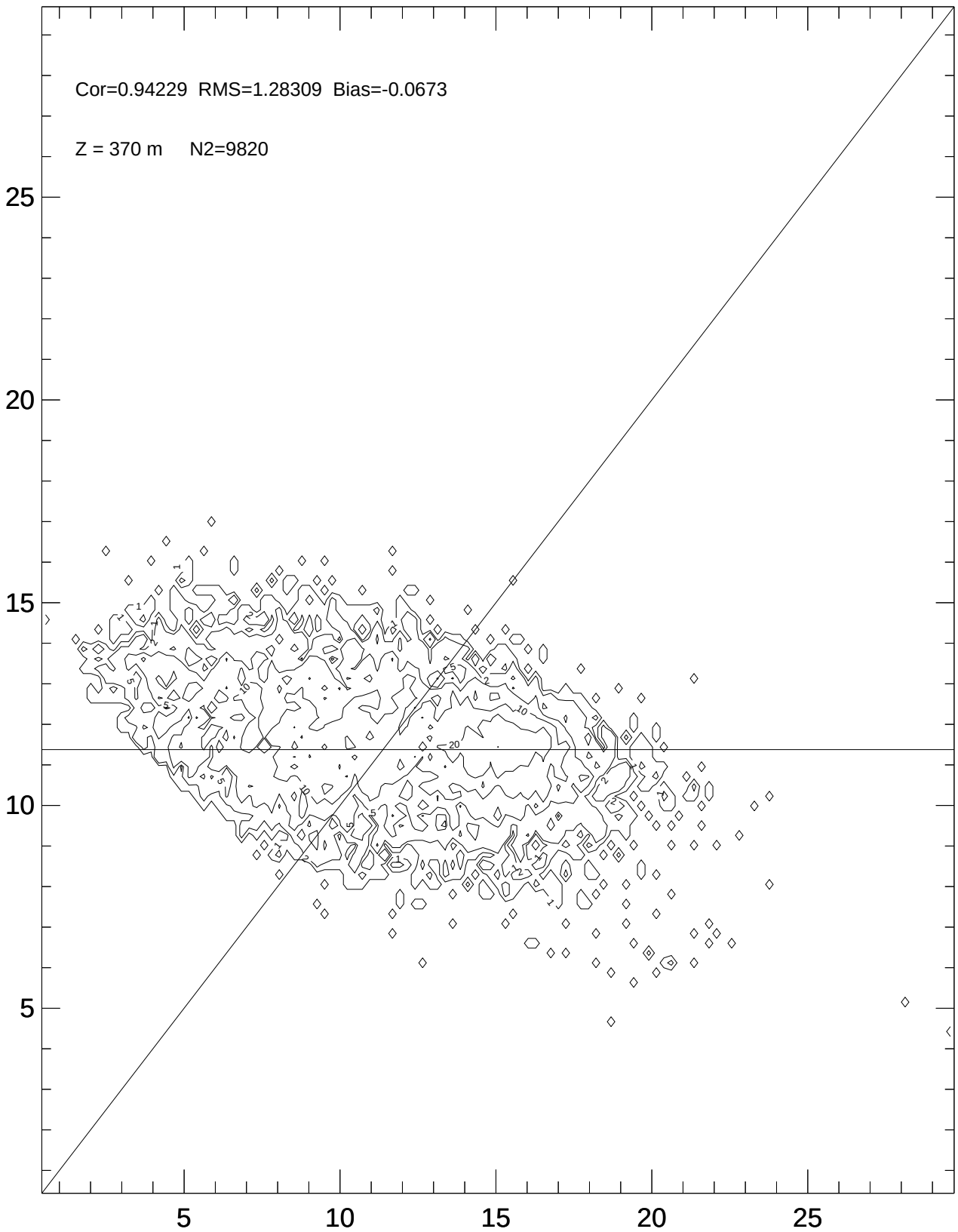

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

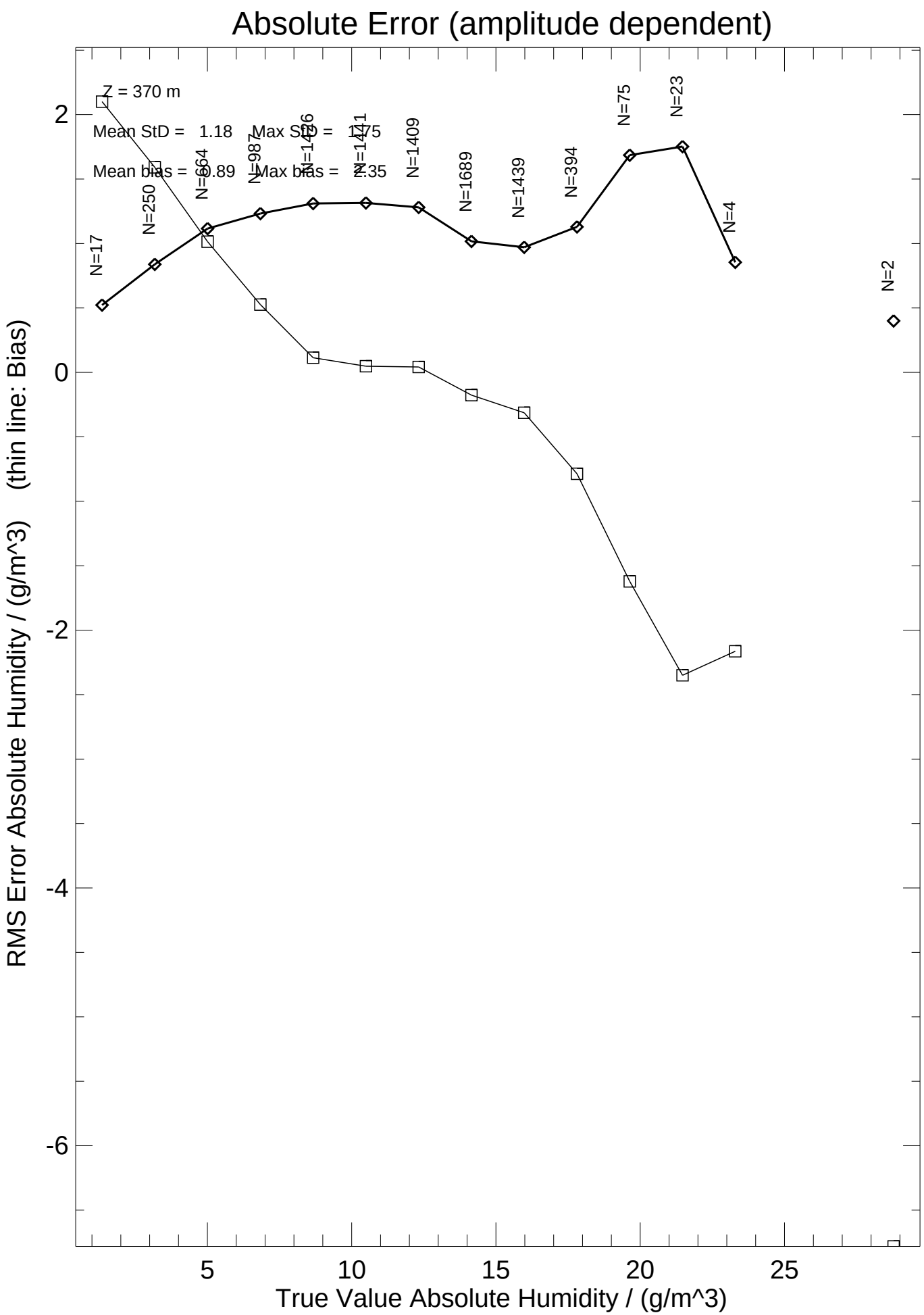

Cor=0.94107 RMS=1.30579 Bias=-0.0682
Z = 340 m N2=9820
25
20
15
10
5
5
10
15
20
25

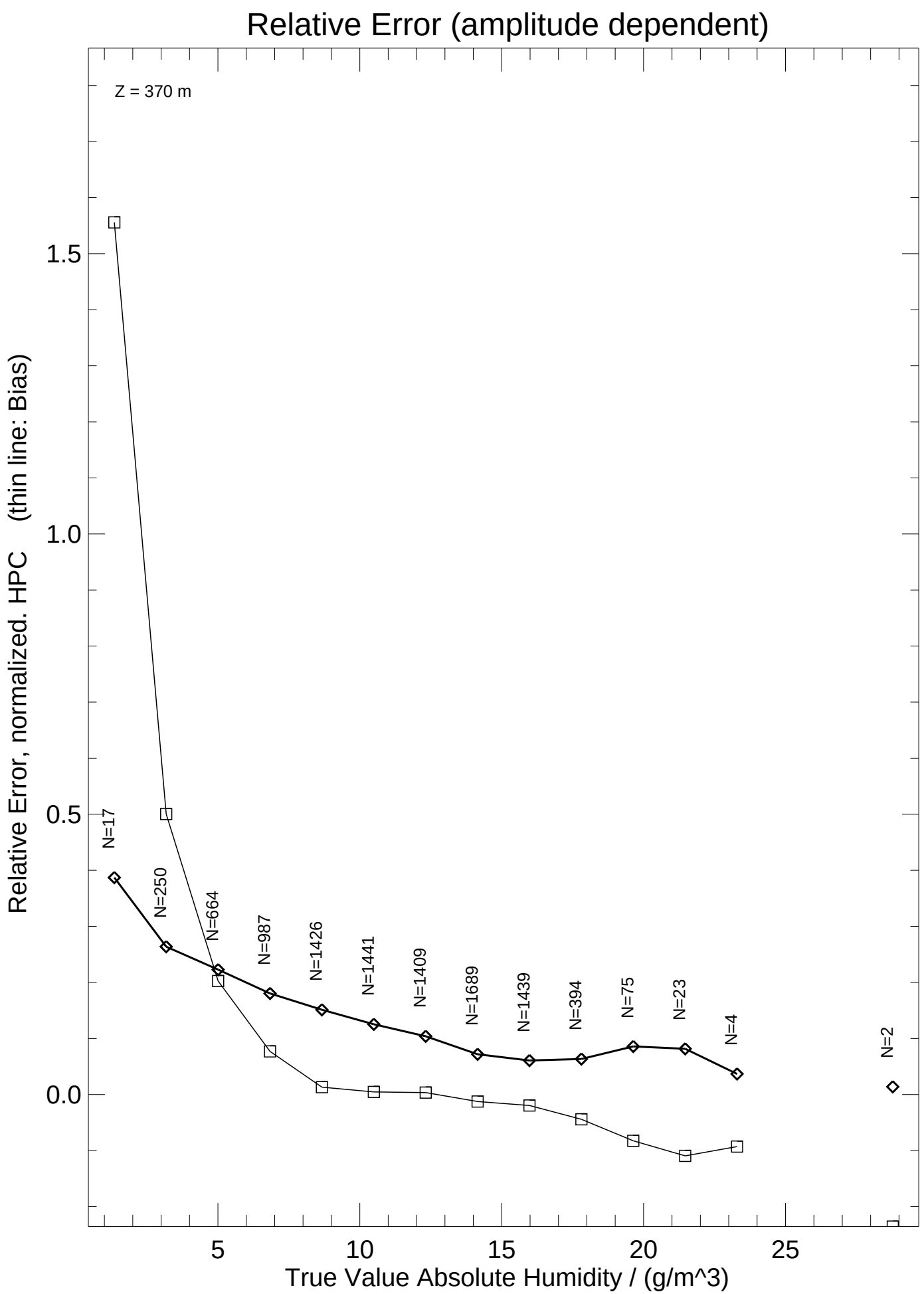

Absolute Error (amplitude dependent)
Z = 340 m
Mean StD = 1.20 Max StD = 1.79
Mean bias = 0.90 Max bias = 2.37
N=16
N=244
N=668
N=982
N=1420
N=1453
N=1390
N=1705
N=1446
N=390
N=77
N=23
N=4
N=1
N=1
2
1
0
-1
-2
5
10
15
20
25
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

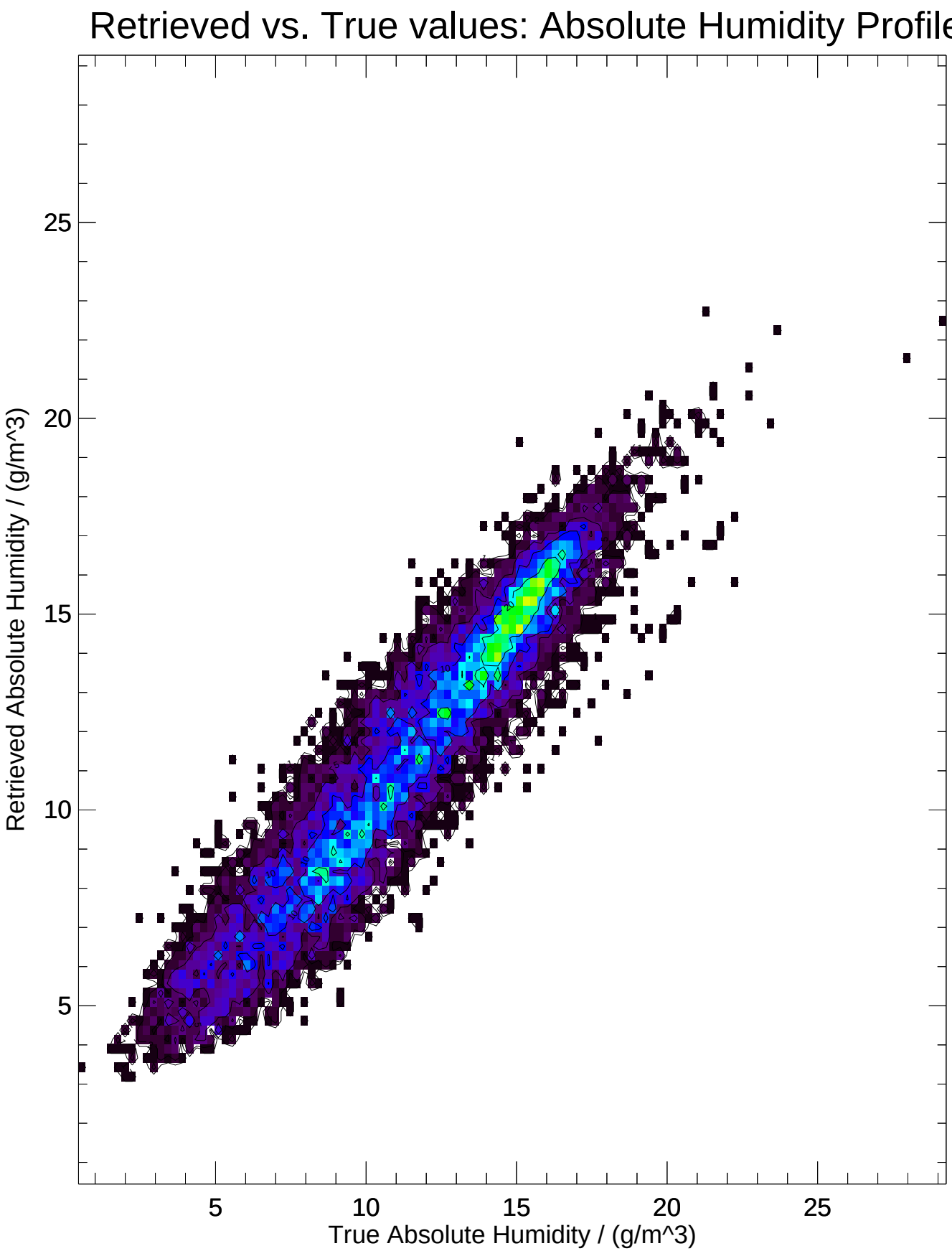

Relative Error (amplitude dependent)
Z = 340 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=16
N=244
N=668
N=982
N=1420
N=1453
N=1390
N=1705
N=1446
N=390
N=77
N=23
N=4
N=1
N=1

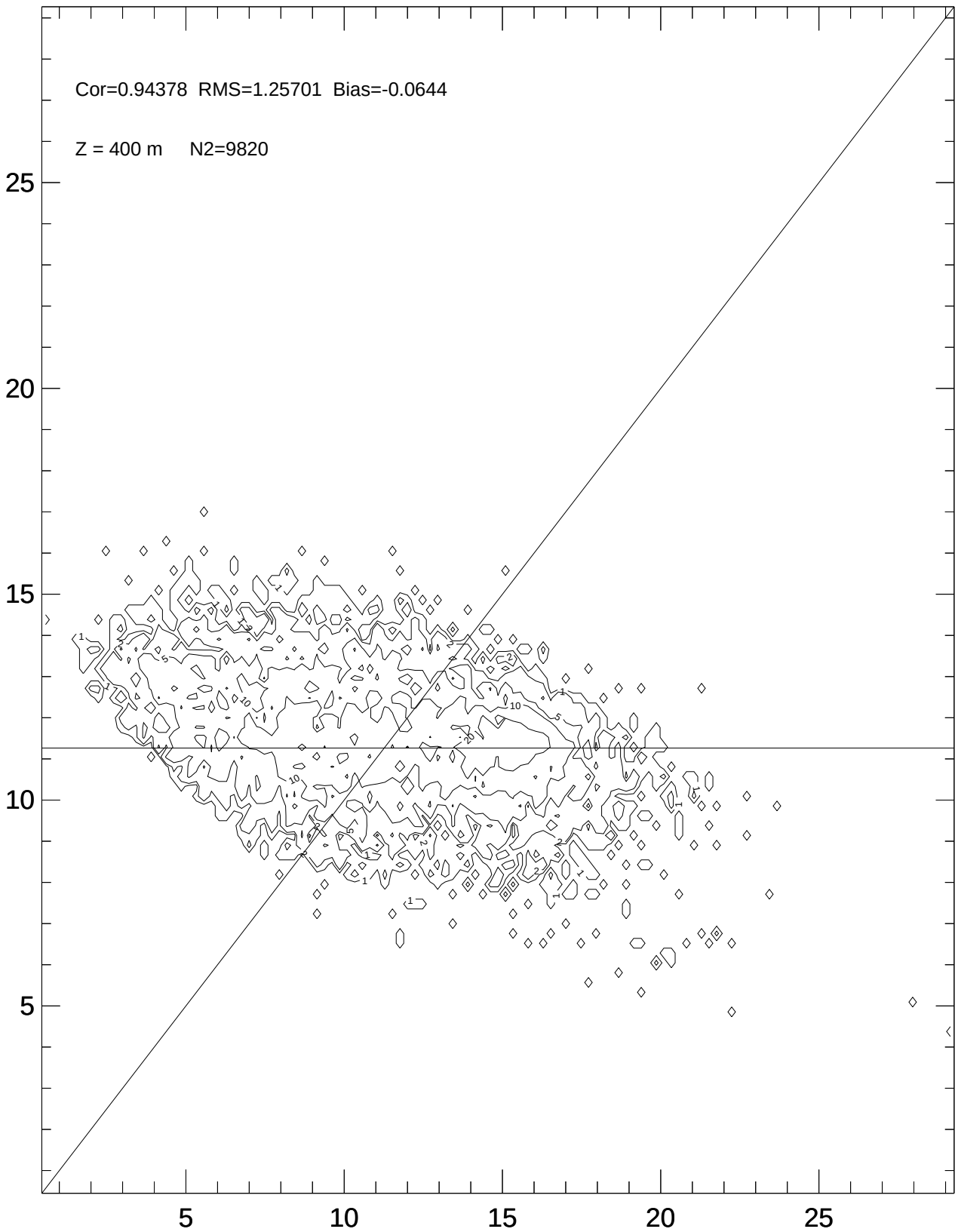

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

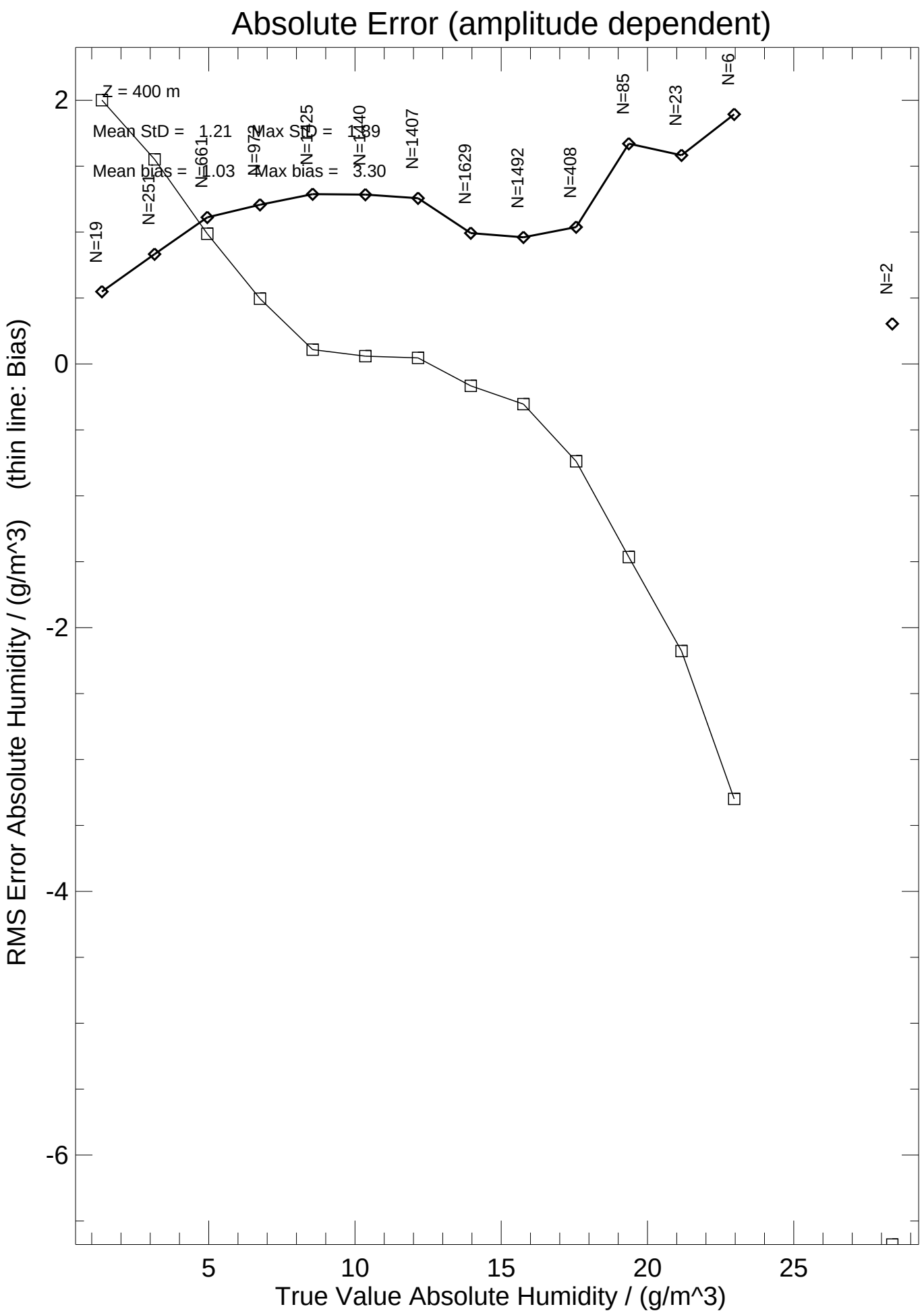

Cor=0.94229 RMS=1.28309 Bias=-0.0673
Z = 370 m N2=9820
25
20
15
10
5
5
10
15
20
25

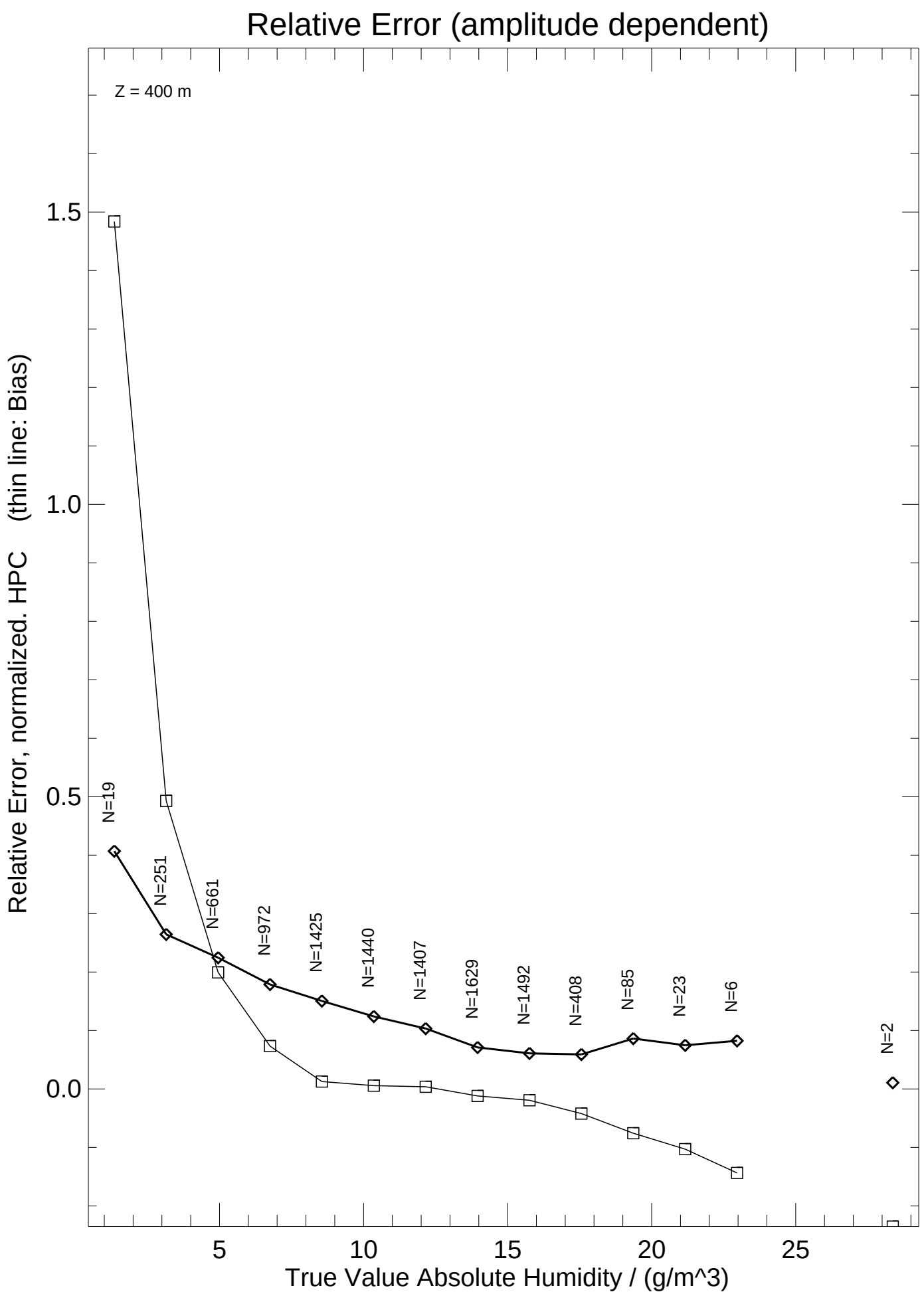

Absolute Error (amplitude dependent)
Z = 370 m
Mean StD = 1.18 Max StD = 1.75
Mean bias = 0.89 Max bias = 2.35
N=17
N=250
N=664
N=987
N=1426
N=1411
N=1409
N=1689
N=1439
N=394
N=75
N=23
N=4
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

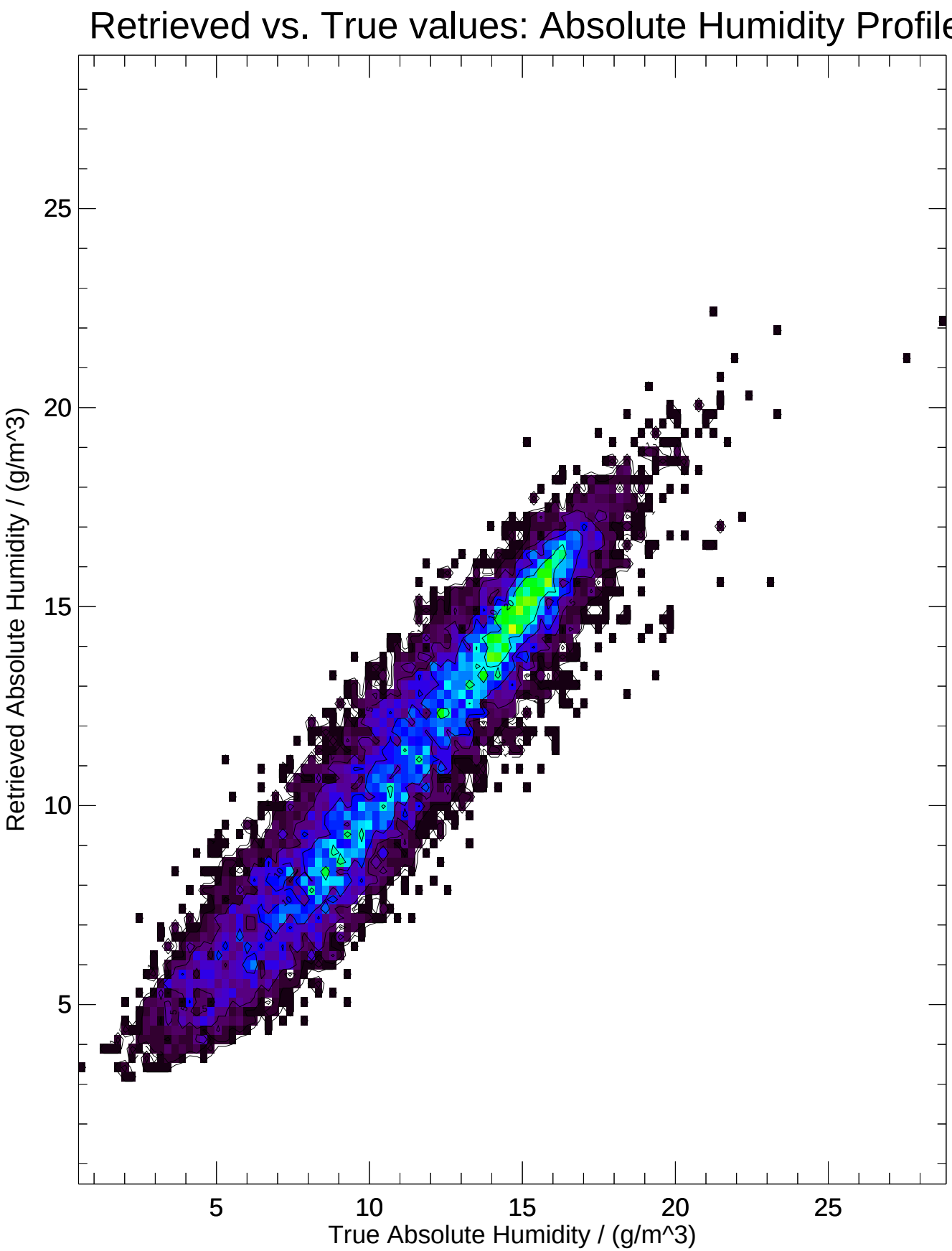

Relative Error (amplitude dependent)
Z = 370 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=17
N=250
N=664
N=987
N=1426
N=1441
N=1409
N=1689
N=1439
N=394
N=75
N=23
N=4
N=2

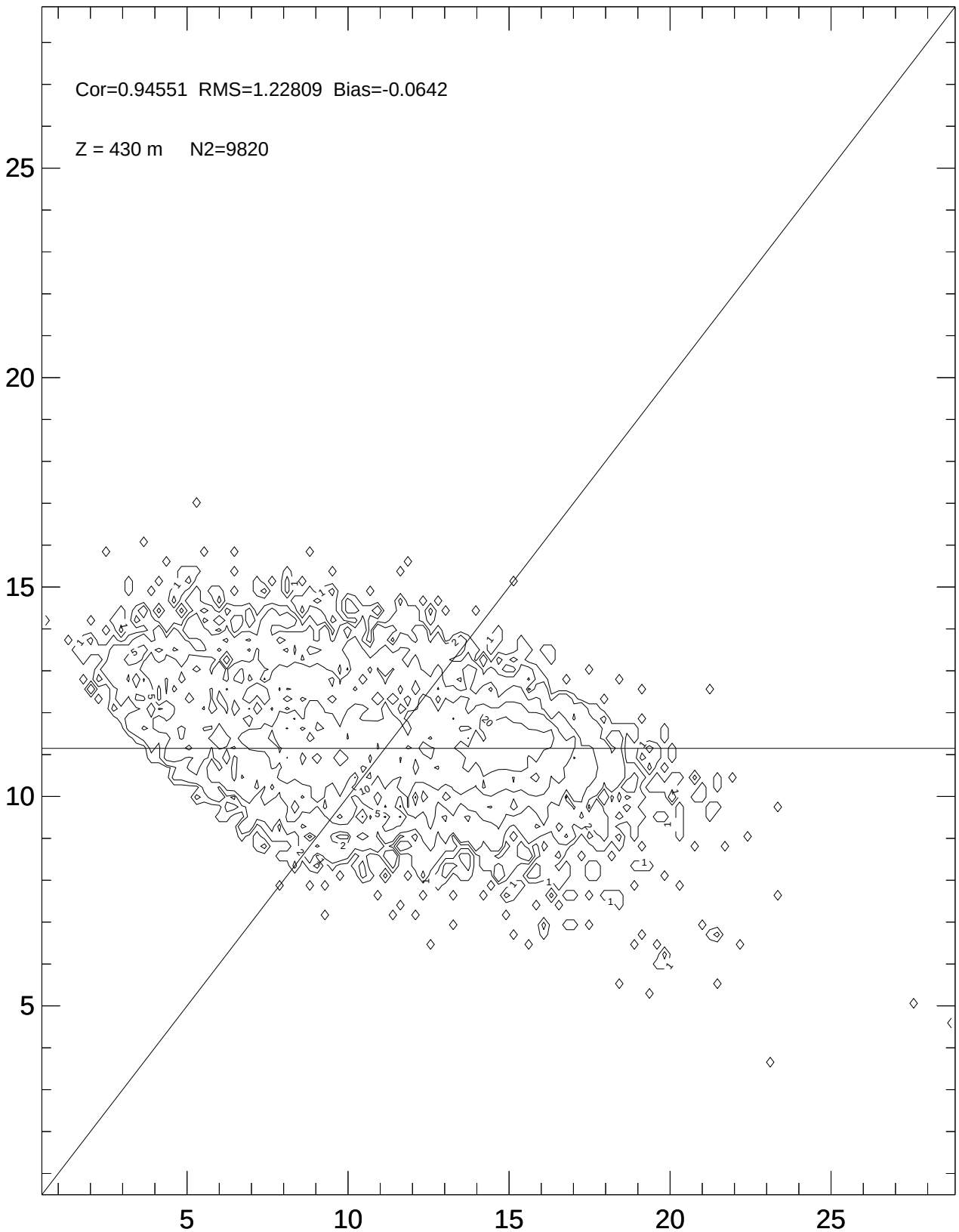

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

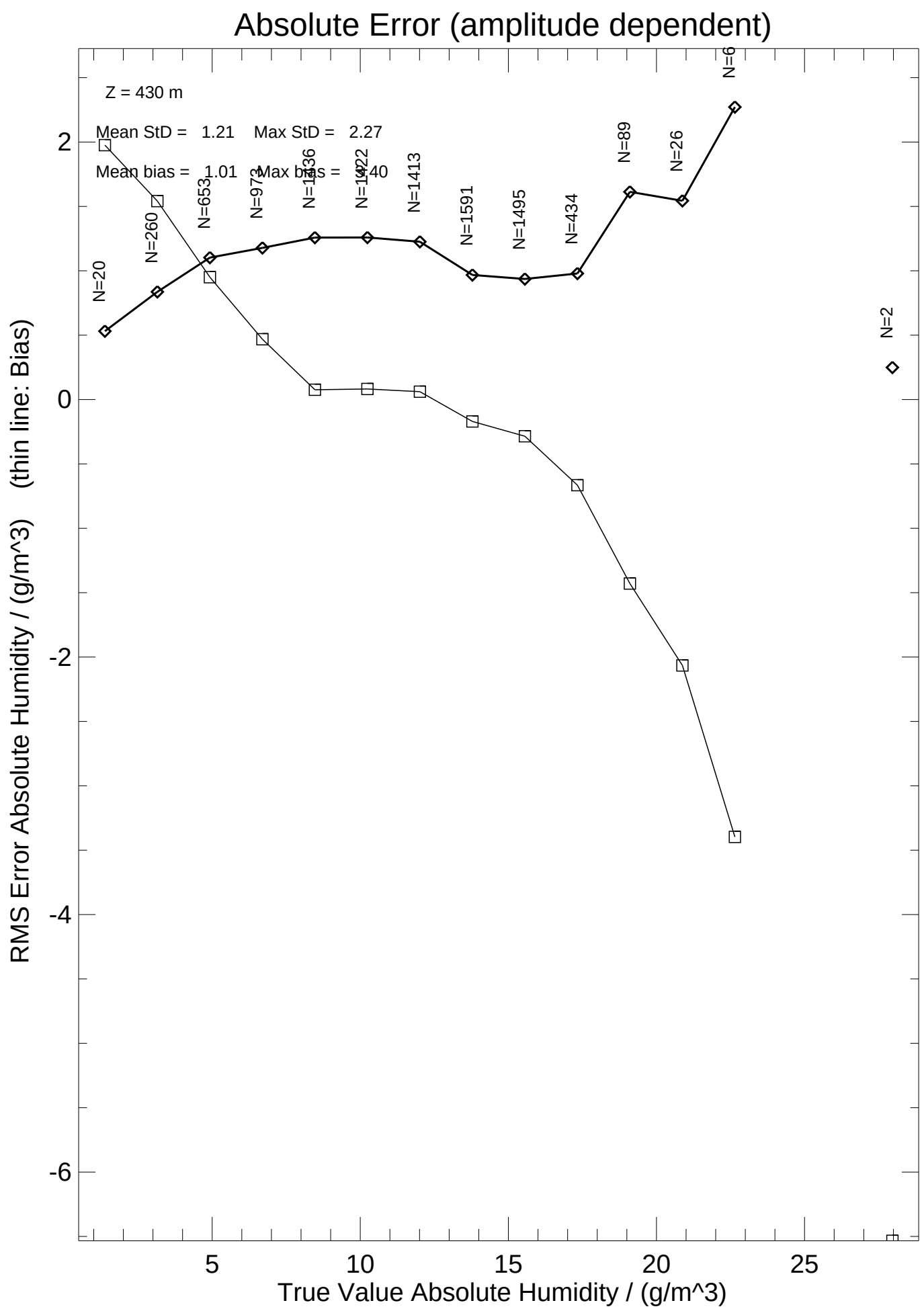

Cor=0.94378 RMS=1.25701 Bias=-0.0644
Z = 400 m N2=9820
25
20
15
10
5
5
10
15
20
25

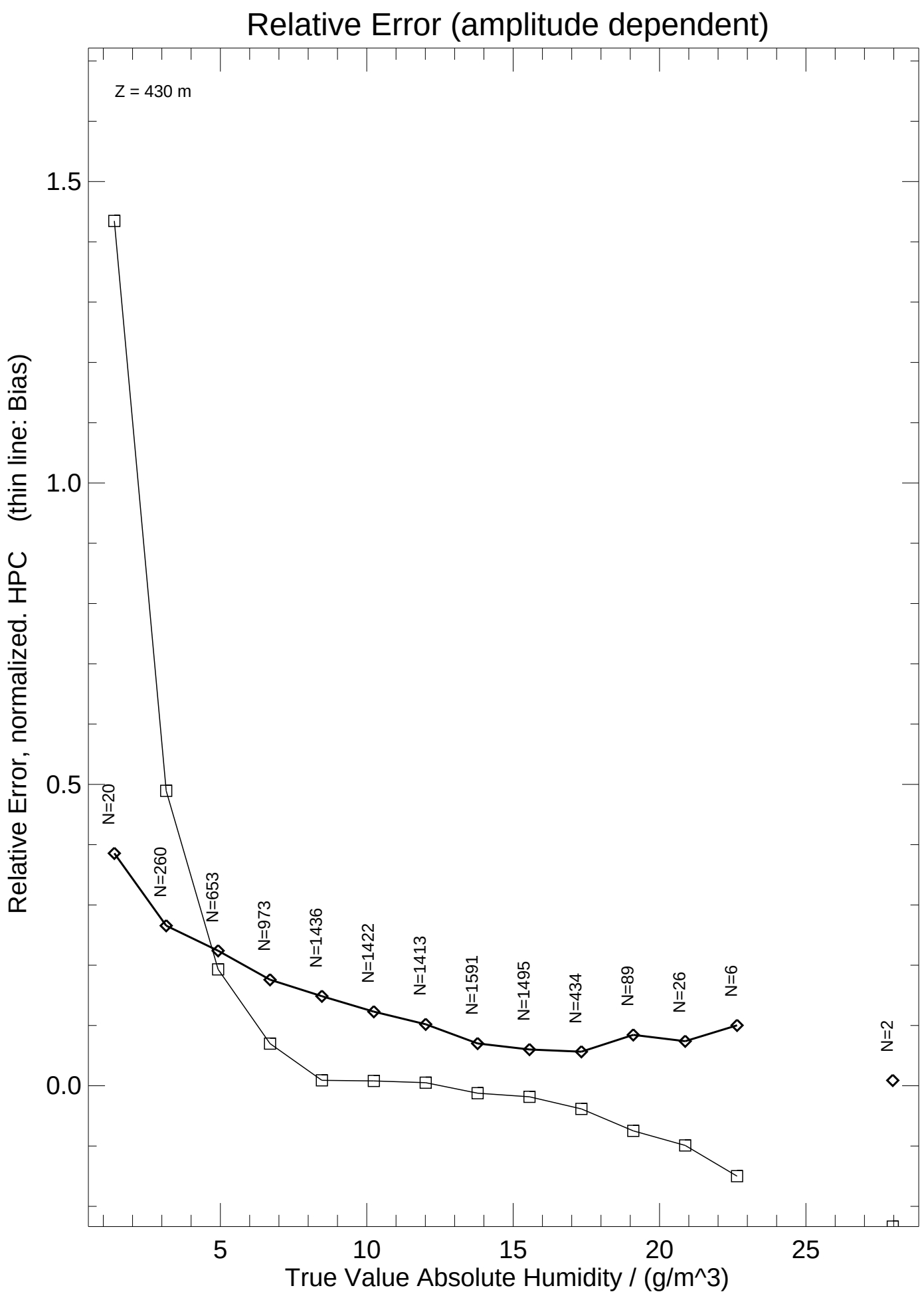

Absolute Error (amplitude dependent)
Z = 400 m
Mean StD = 1.21 Max StD = 1.89
Mean bias = 1.03 Max bias = 3.30
N=19
N=251
N=661
N=972
N=1225
N=1340
N=1407
N=1629
N=1492
N=408
N=85
N=23
N=6
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

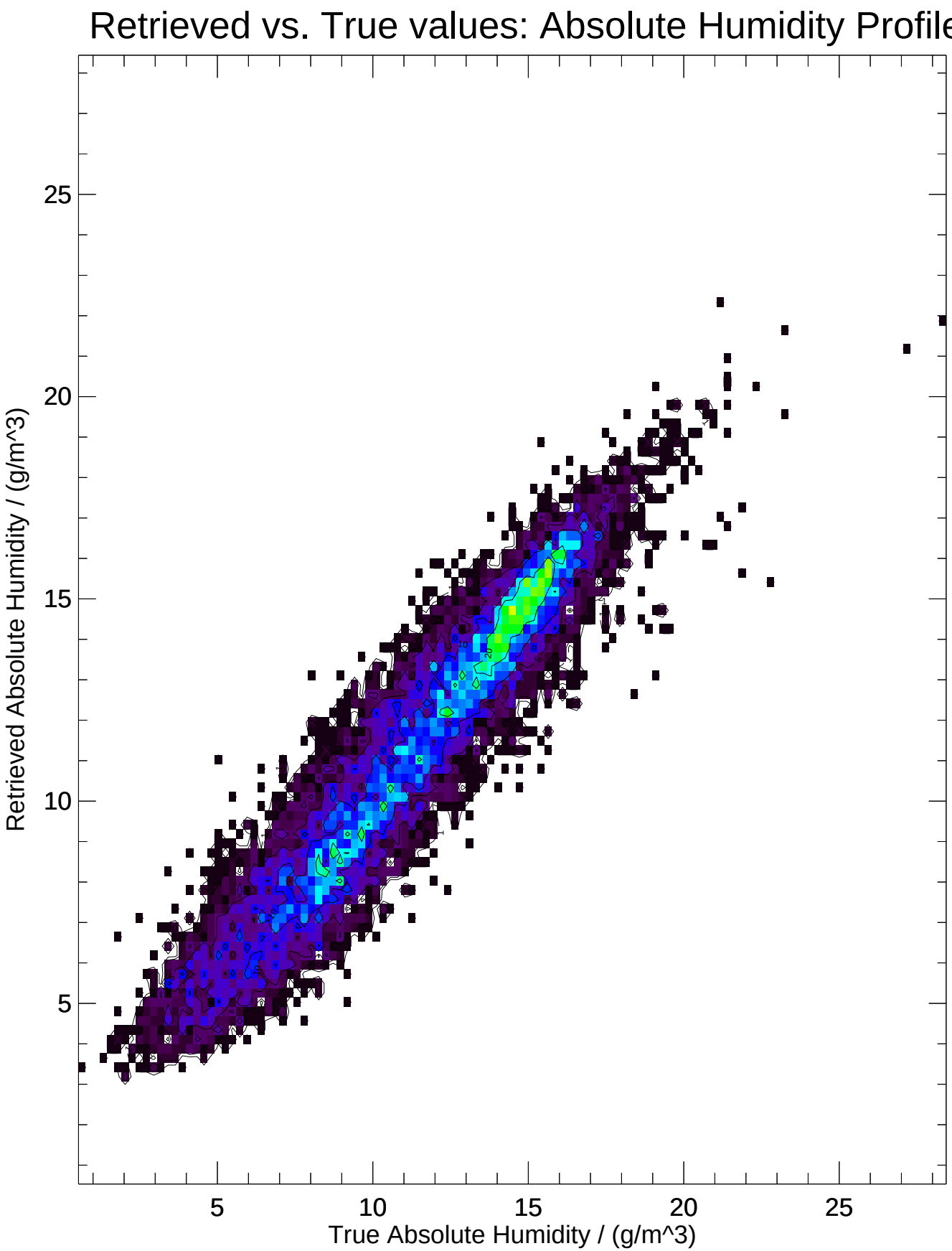

Relative Error (amplitude dependent)
Z = 400 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
N=19
N=251
N=661
N=972
N=1425
N=1440
N=1407
N=1629
N=1492
N=408
N=85
N=23
N=6
N=2
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)

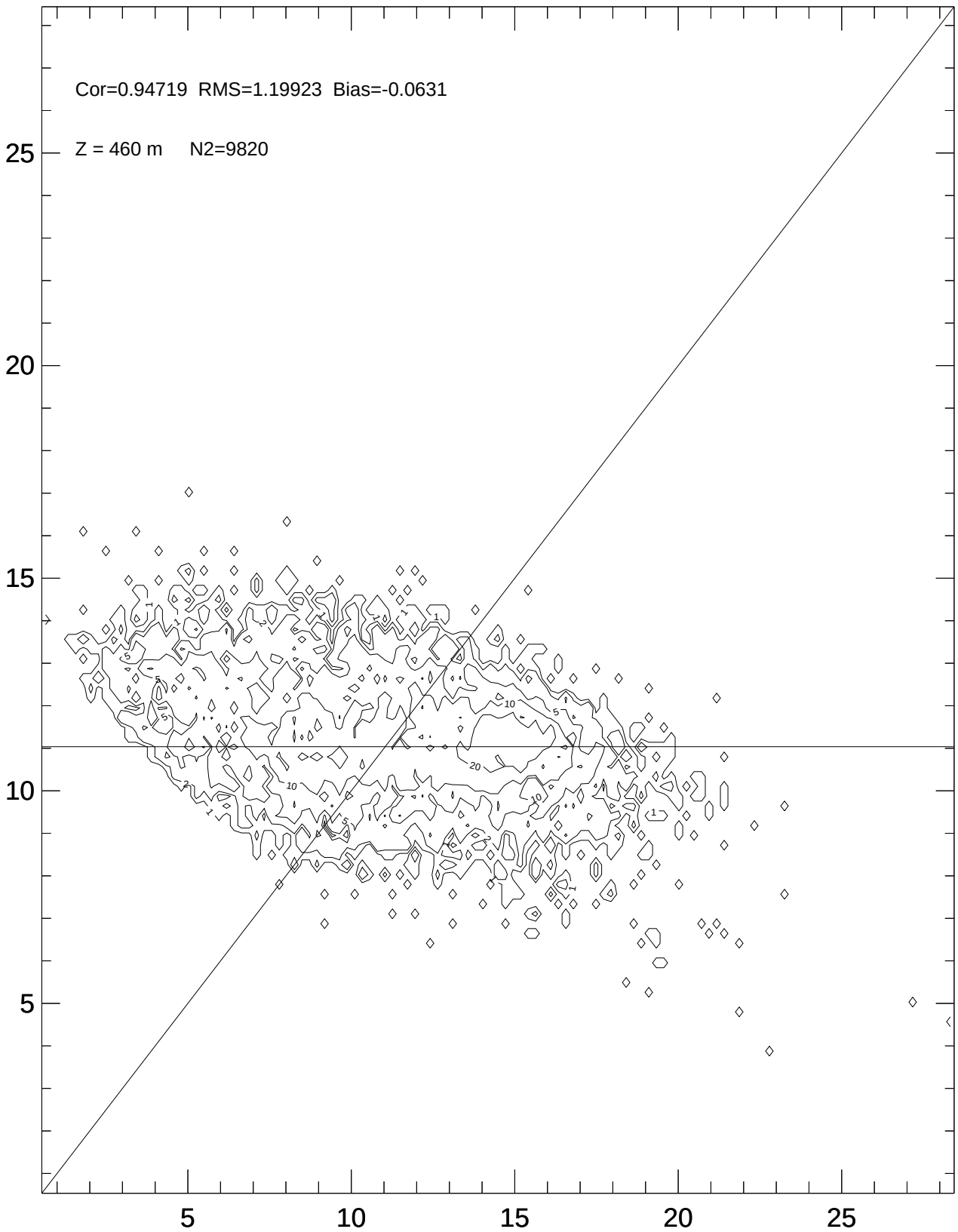

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

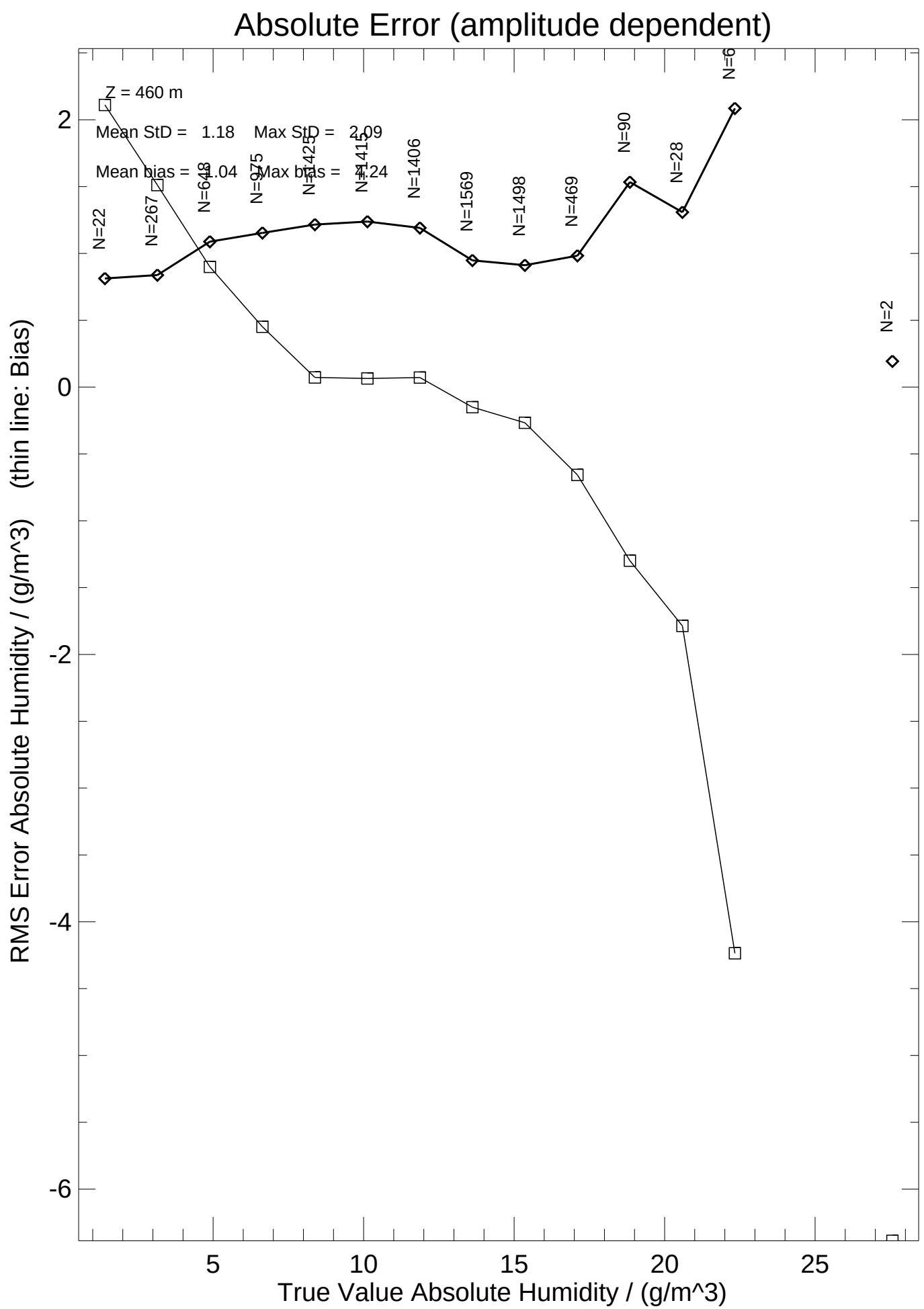

Cor=0.94551 RMS=1.22809 Bias=-0.0642
Z = 430 m N2=9820
25
20
15
10
5
5
10
15
20
25

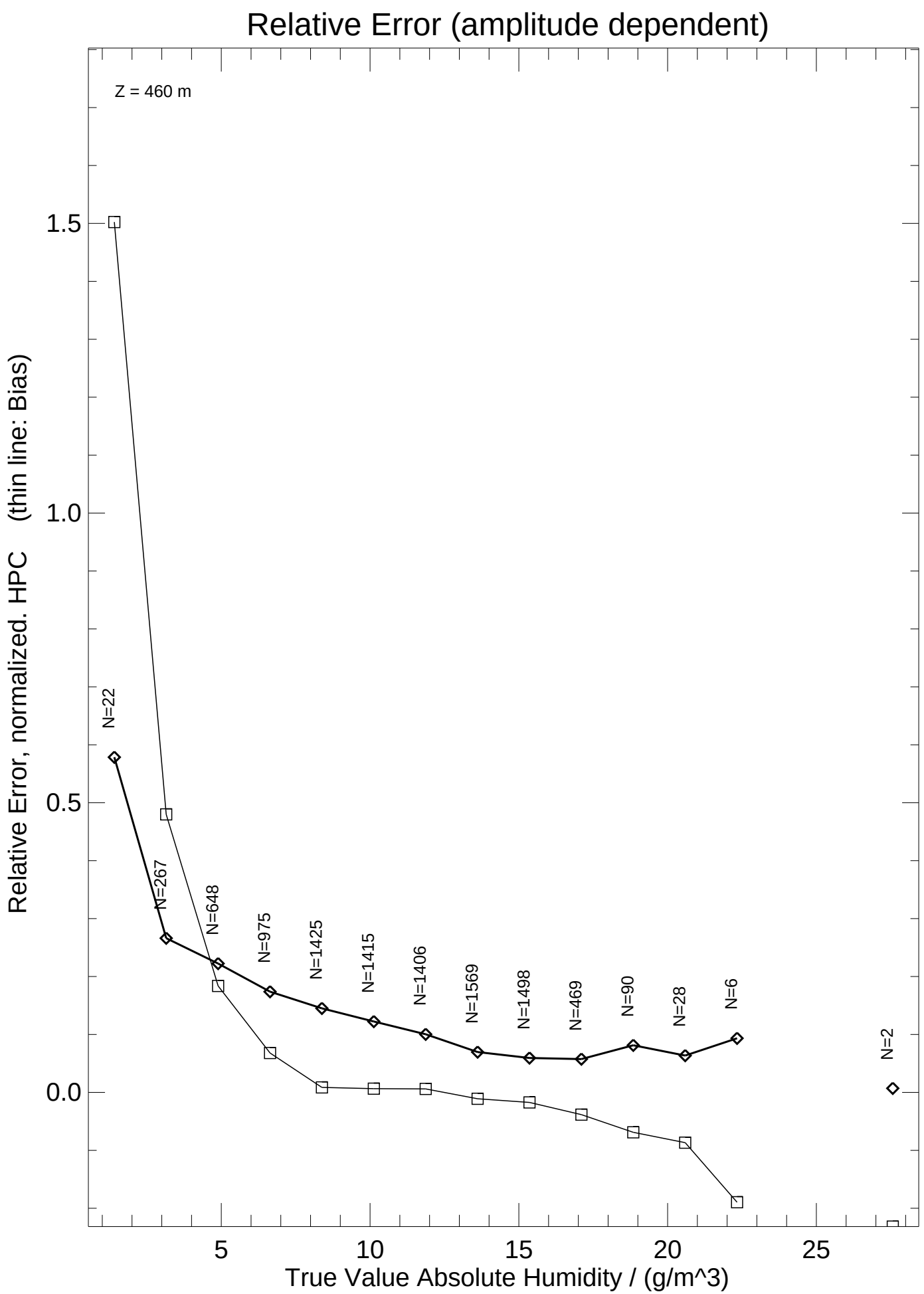

Absolute Error (amplitude dependent)
Z = 430 m
Mean StD = 1.21 Max StD = 2.27
Mean bias = 1.01 Max bias = 1.40
N=20
N=260
N=653
N=973
N=1336
N=1422
N=1413
N=1591
N=1495
N=434
N=89
N=26
N=6
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

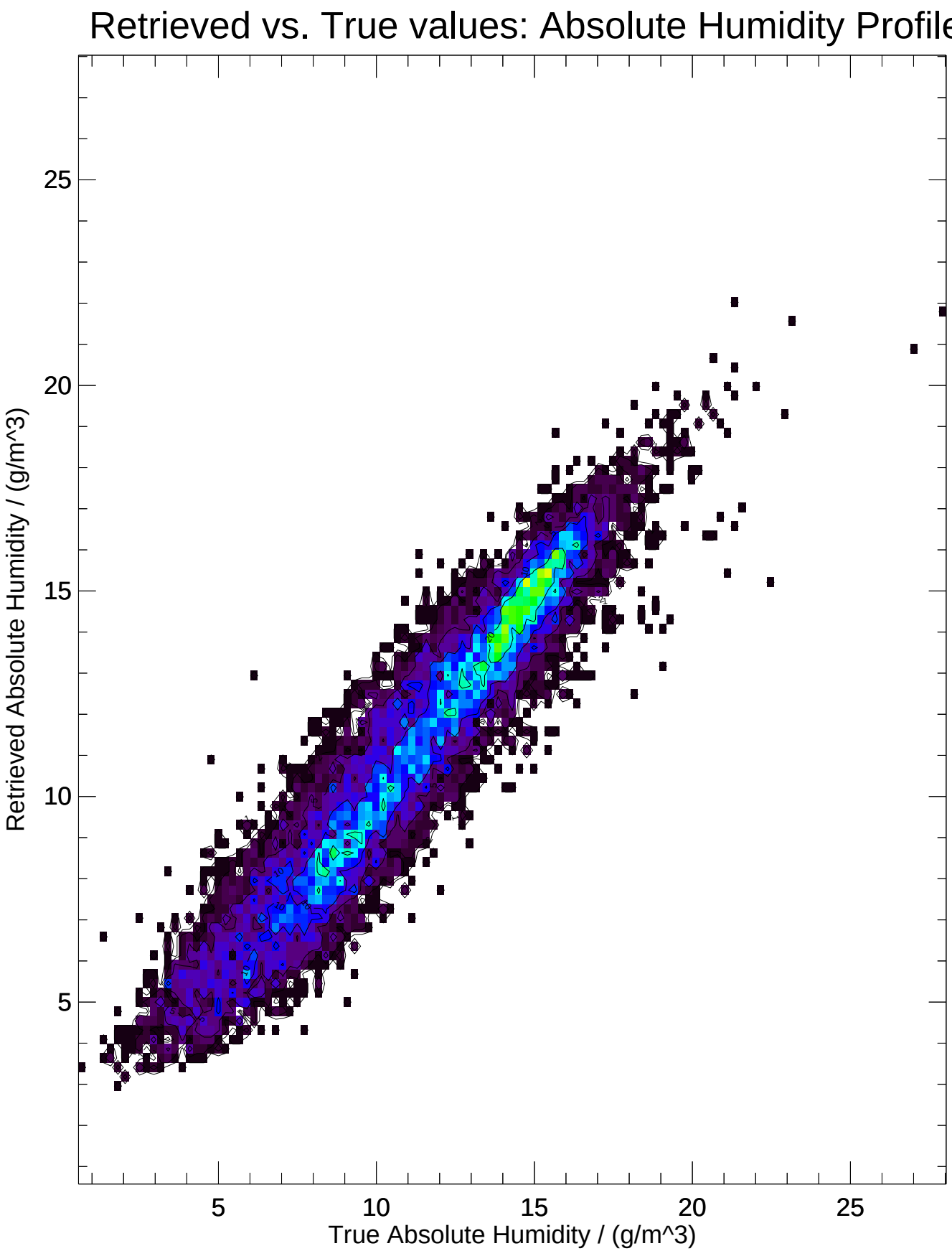

Relative Error (amplitude dependent)
Z = 430 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=20
N=260
N=653
N=973
N=1436
N=1422
N=1413
N=1591
N=1495
N=434
N=89
N=26
N=6
N=2

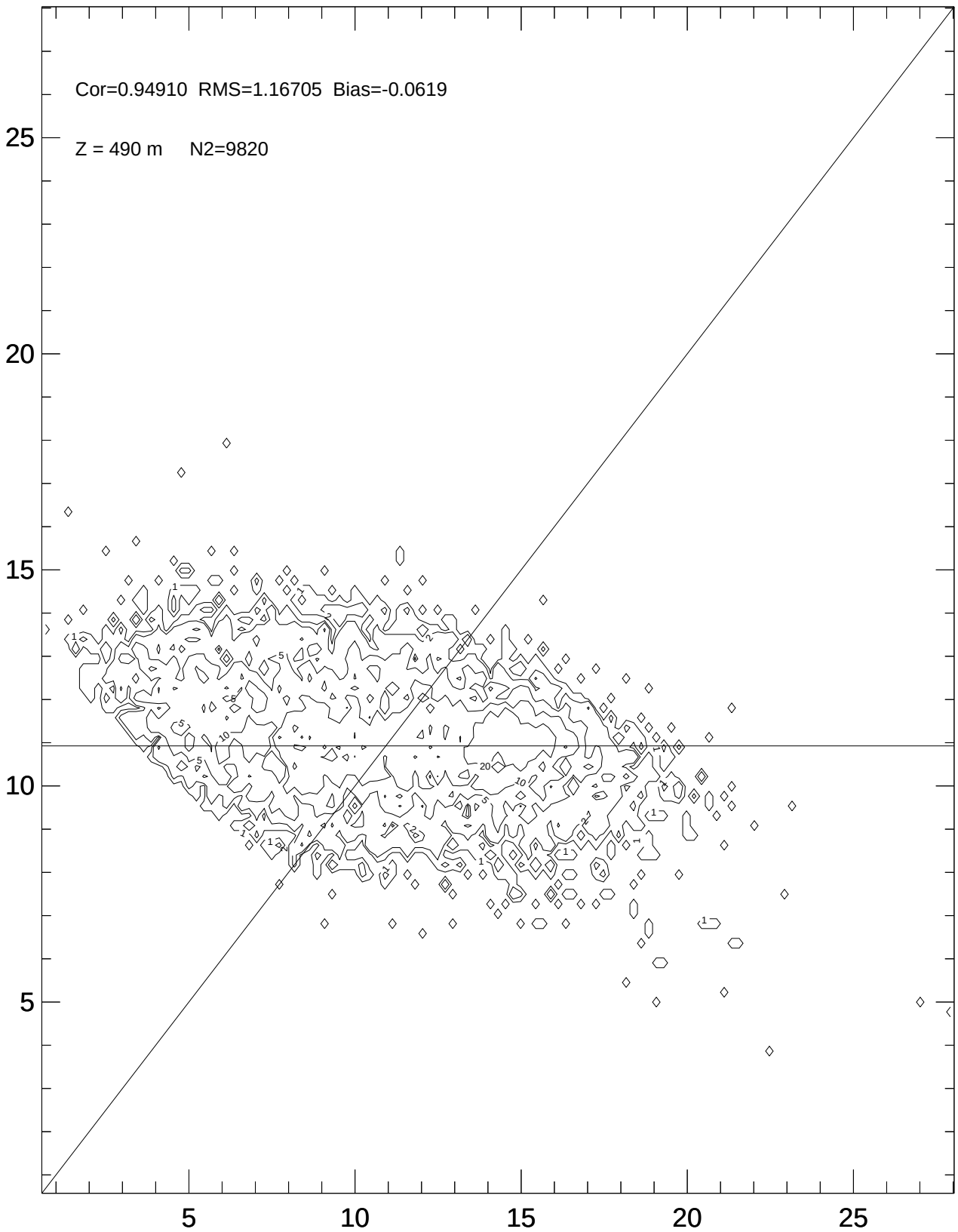

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

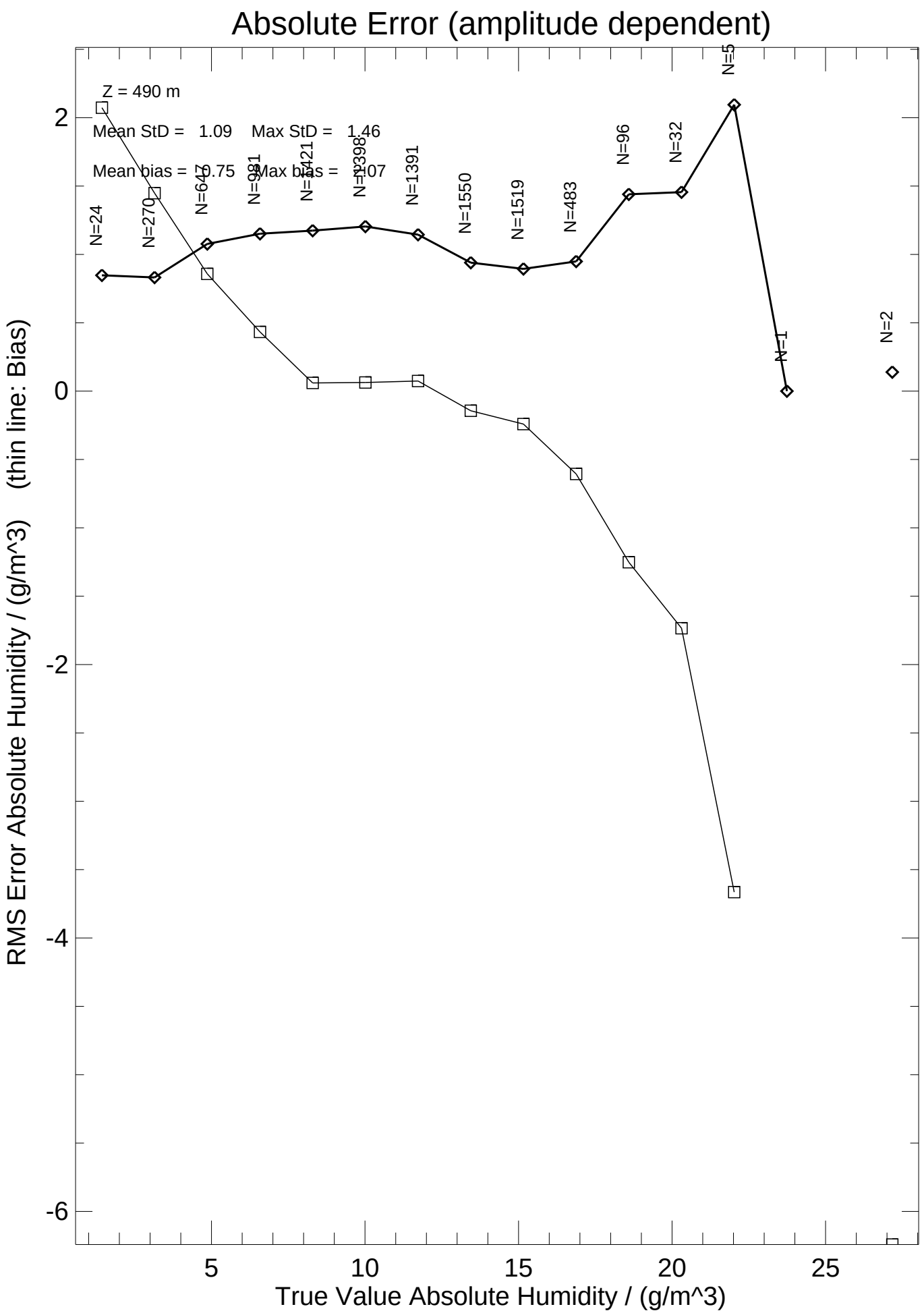

Cor=0.94719 RMS=1.19923 Bias=-0.0631
Z = 460 m N2=9820
25
20
15
10
5
5
10
15
20
25

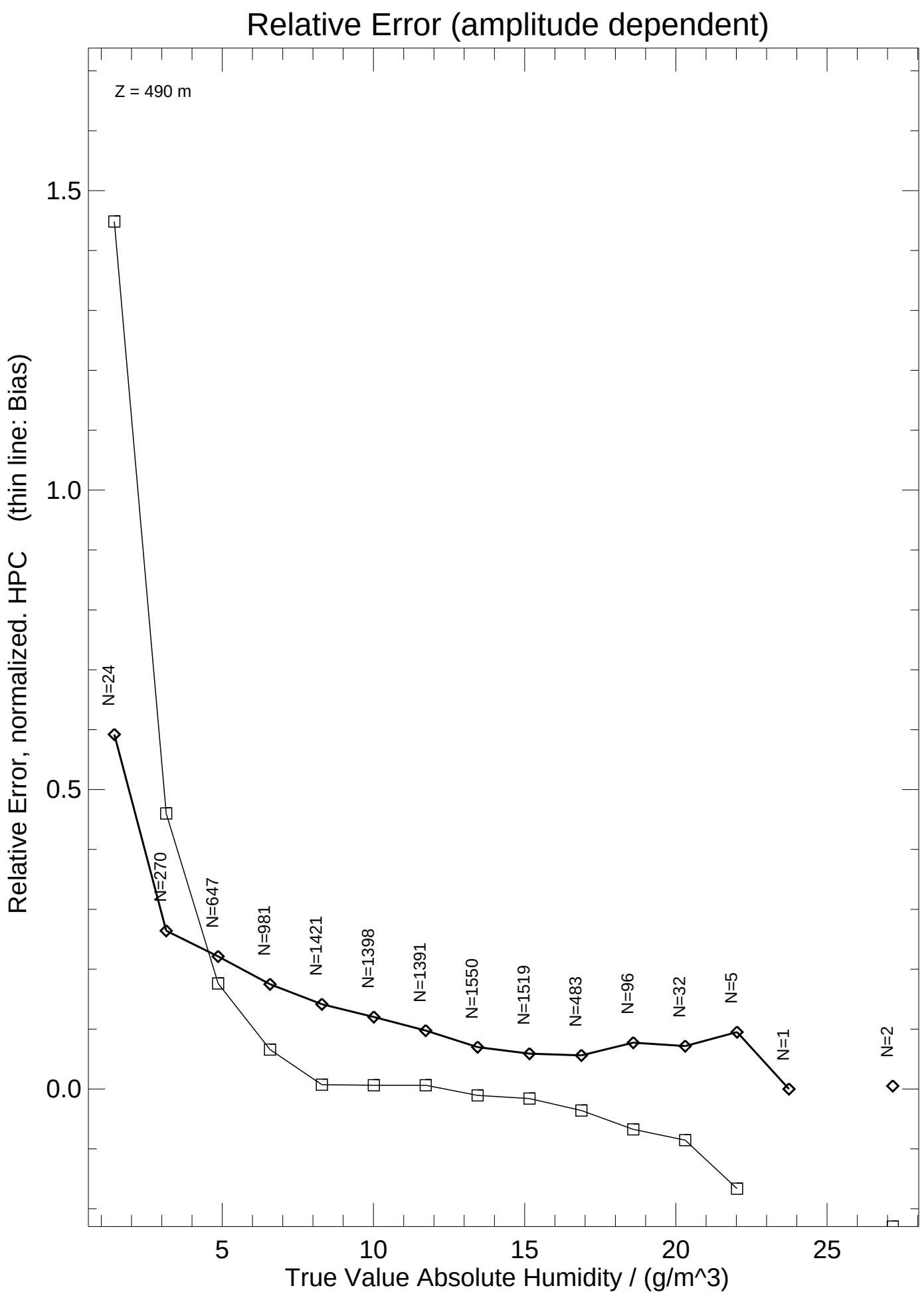

Absolute Error (amplitude dependent)
Z = 460 m
Mean StD = 1.18 Max StD = 2.09
Mean bias = 1.04 Max bias = 1.24
N=22
N=267
N=643
N=975
N=1425
N=1415
N=1406
N=1569
N=1498
N=469
N=90
N=28
N=6
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

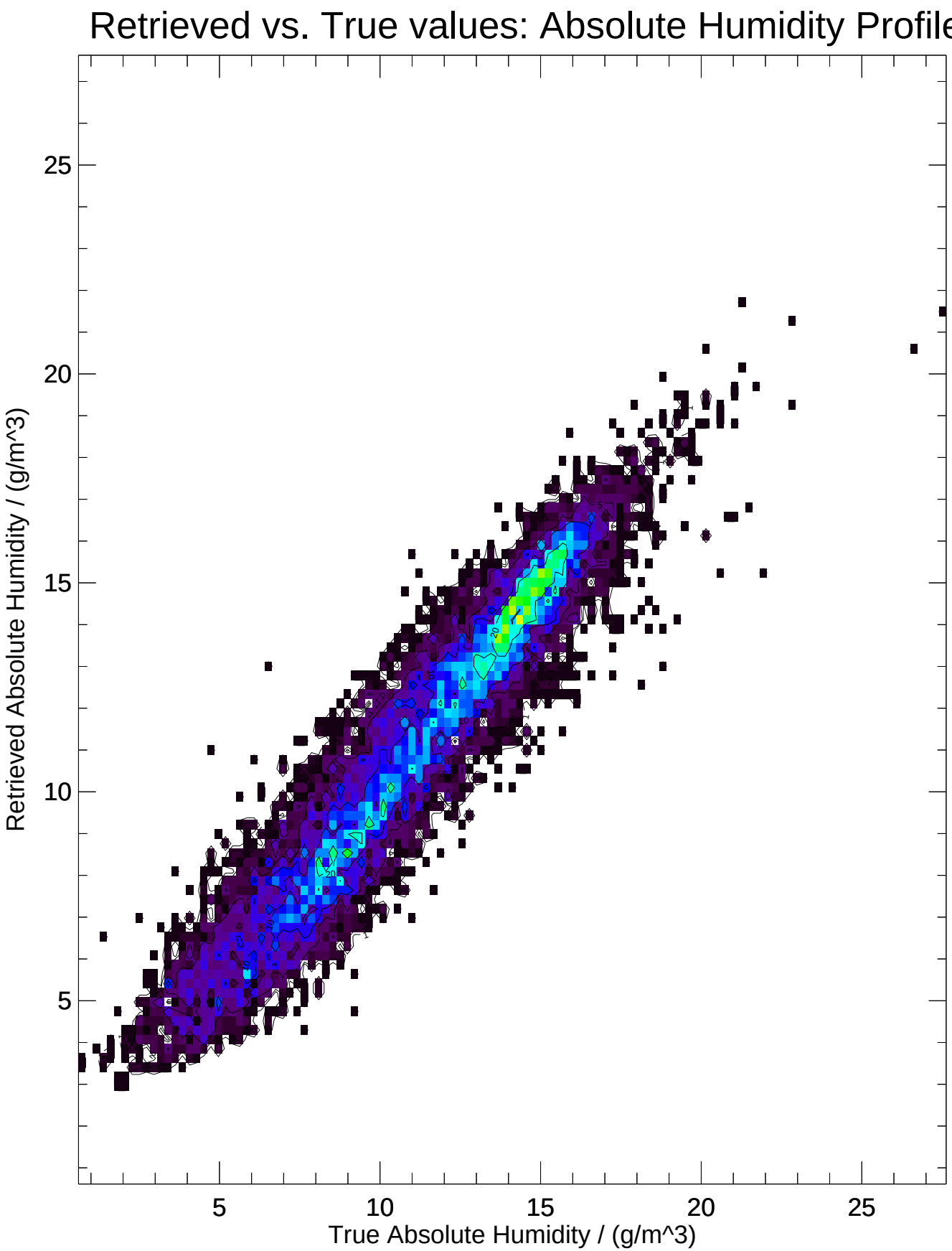

Relative Error (amplitude dependent)
Z = 460 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=22
N=267
N=648
N=975
N=1425
N=1415
N=1406
N=1569
N=1498
N=469
N=90
N=28
N=6
N=2

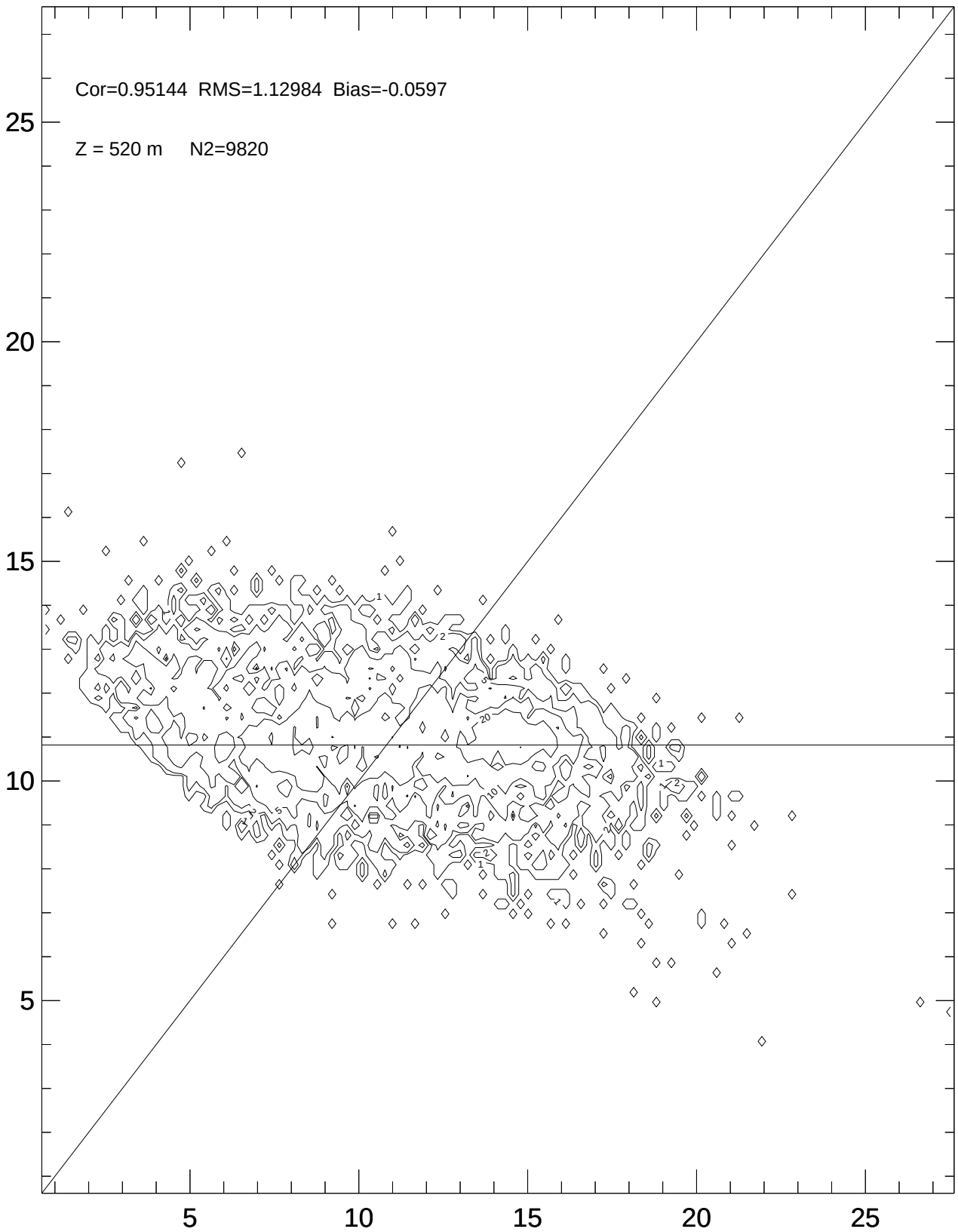

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

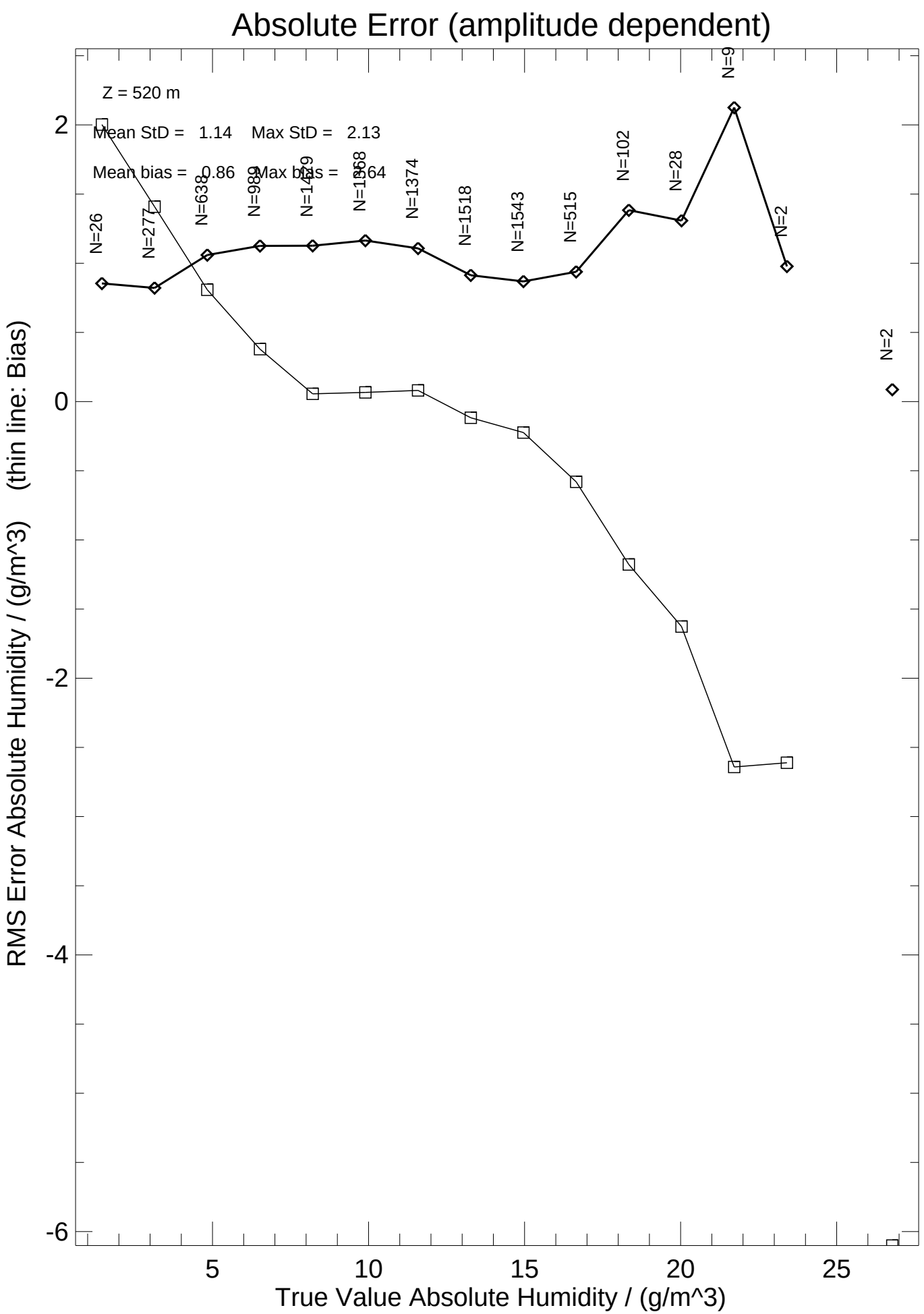

Cor=0.94910 RMS=1.16705 Bias=-0.0619
Z = 490 m N2=9820
25
20
15
10
5
5
10
15
20
25

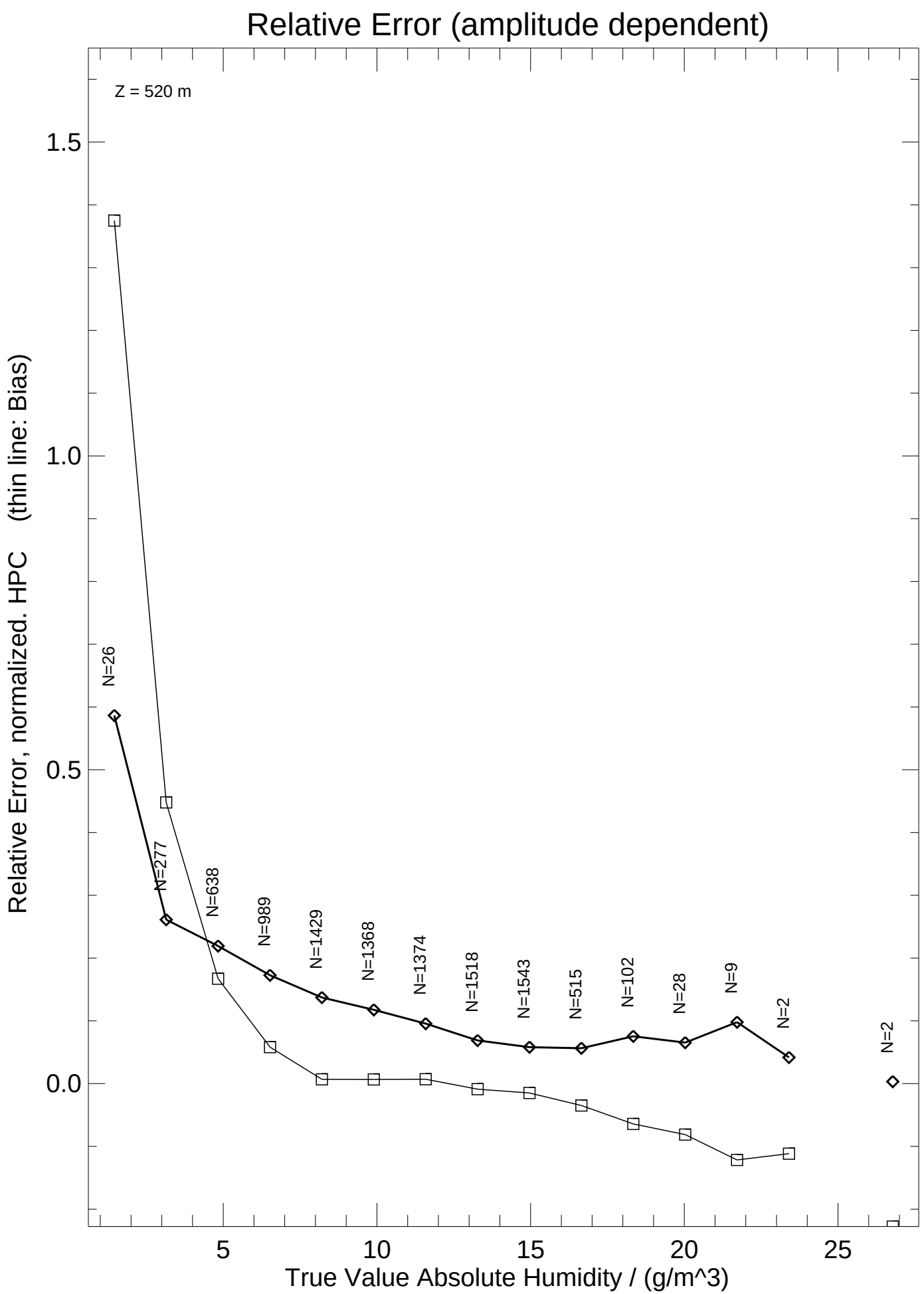

Absolute Error (amplitude dependent)
Z = 490 m
Mean StD = 1.09 Max StD = 1.46
Mean bias = 0.75 Max bias = 2.07
N=24
N=270
N=641
N=981
N=1421
N=1398
N=1391
N=1550
N=1519
N=483
N=96
N=32
N=5
N=1
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

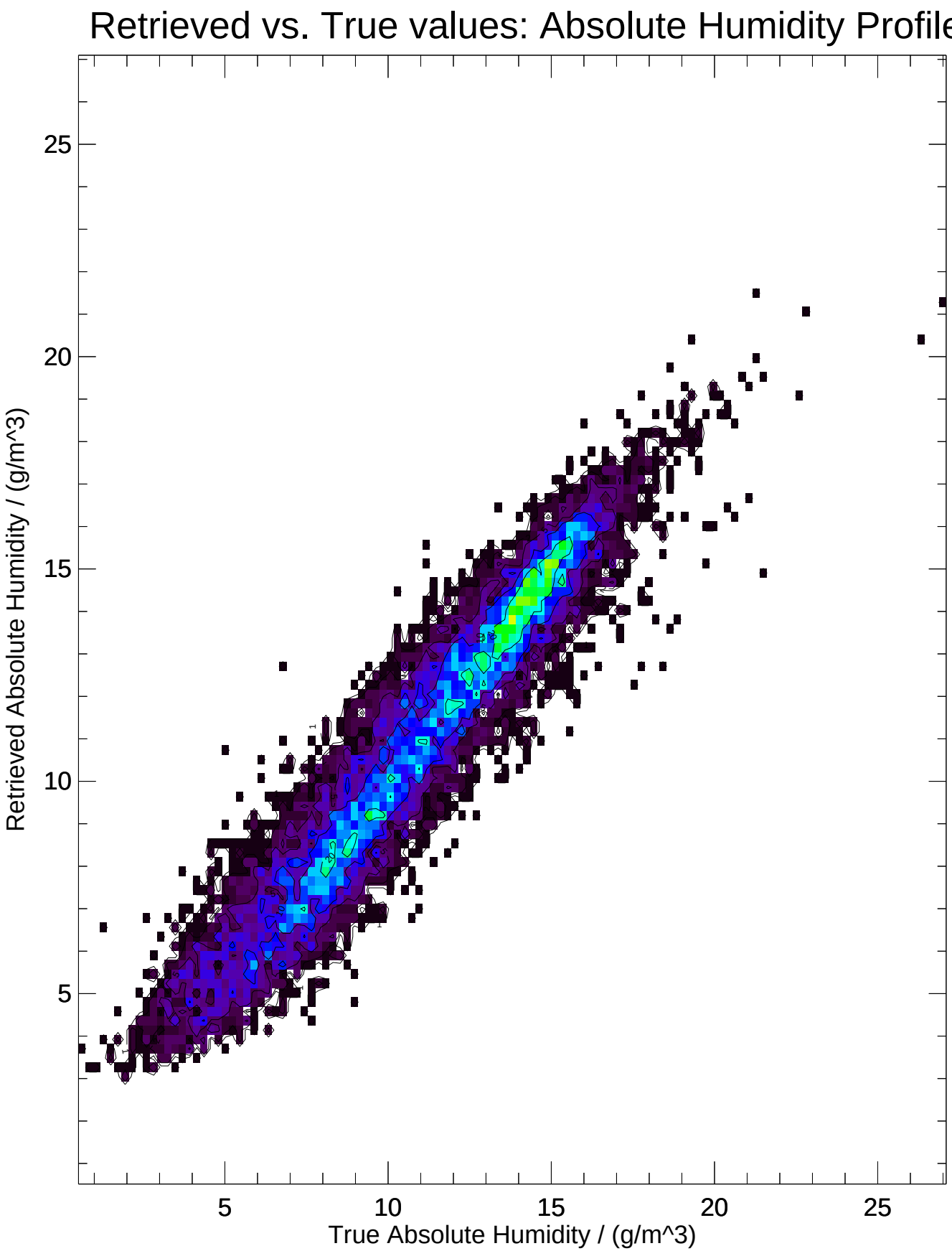

Relative Error (amplitude dependent)
Z = 490 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=24
N=270
N=647
N=981
N=1421
N=1398
N=1391
N=1550
N=1519
N=483
N=96
N=32
N=5
N=1
N=2

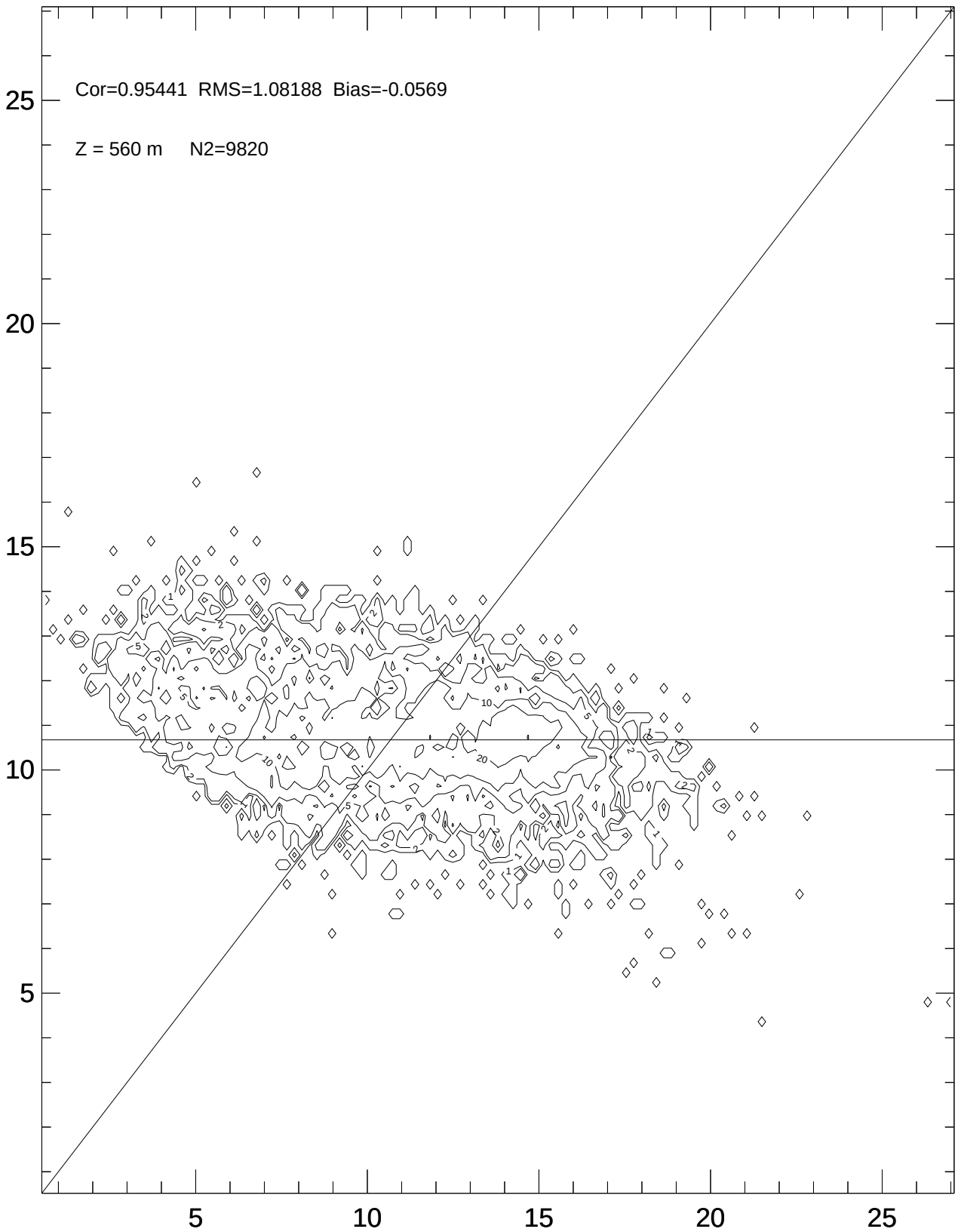

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

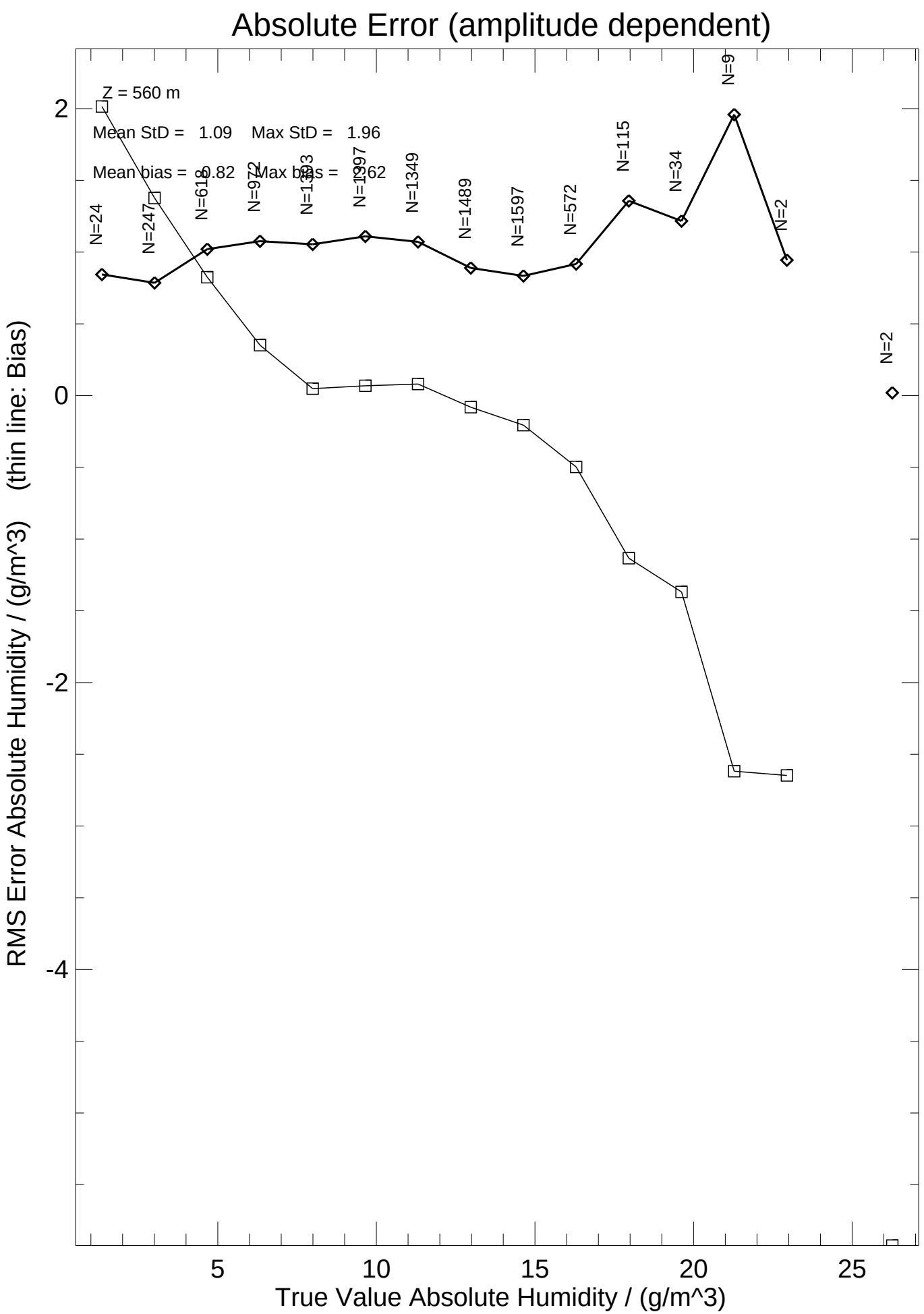

Cor=0.95144 RMS=1.12984 Bias=-0.0597
Z = 520 m N2=9820
25
20
15
10
5
5
10
15
20
25

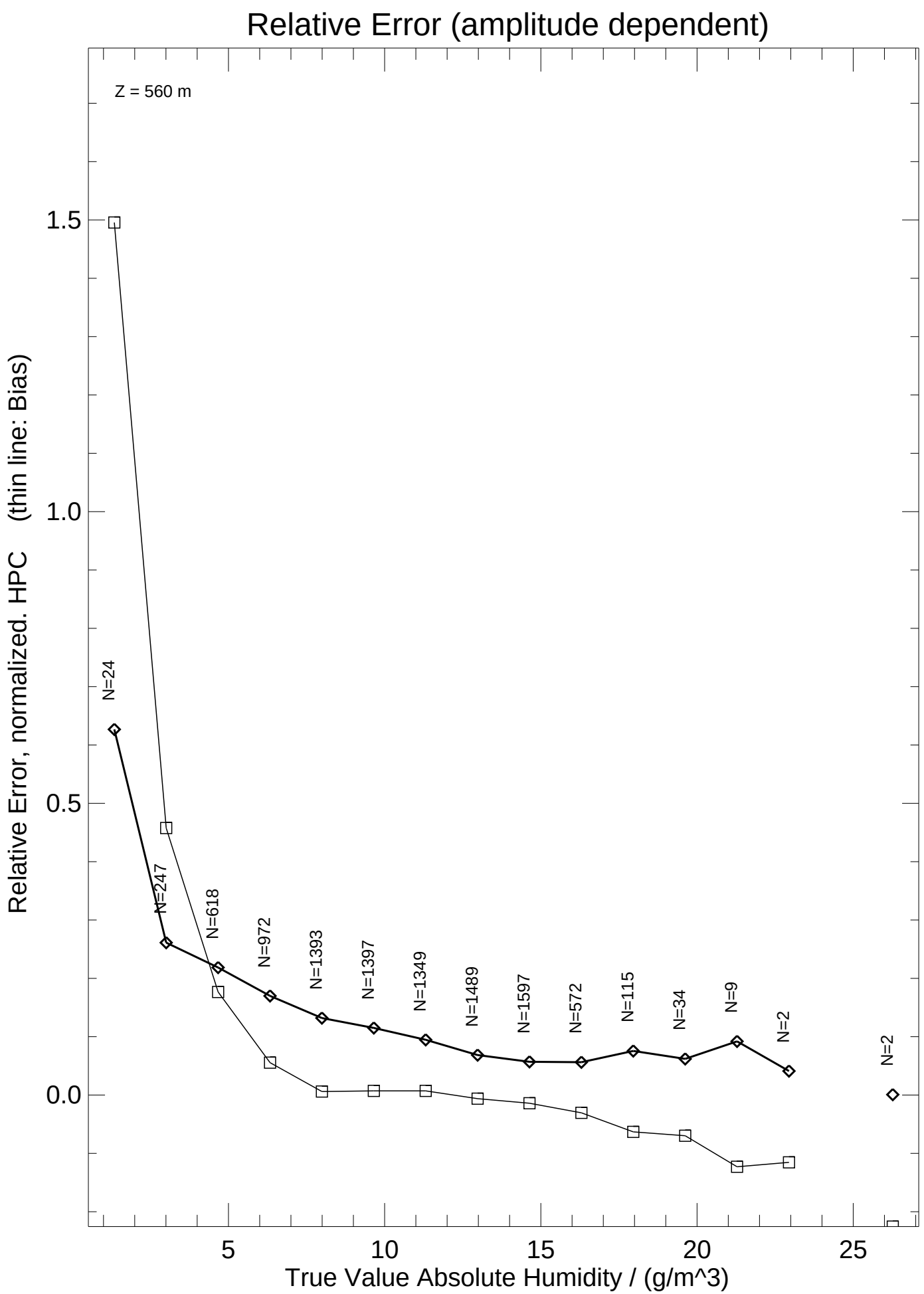

Absolute Error (amplitude dependent)
Z = 520 m
Mean StD = 1.14 Max StD = 2.13
Mean bias = 0.86 Max bias = 1.64
N=26
N=277
N=638
N=989
N=1429
N=1668
N=1374
N=1518
N=1543
N=515
N=102
N=28
N=9
N=2
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
-6
5
10
15
20
25

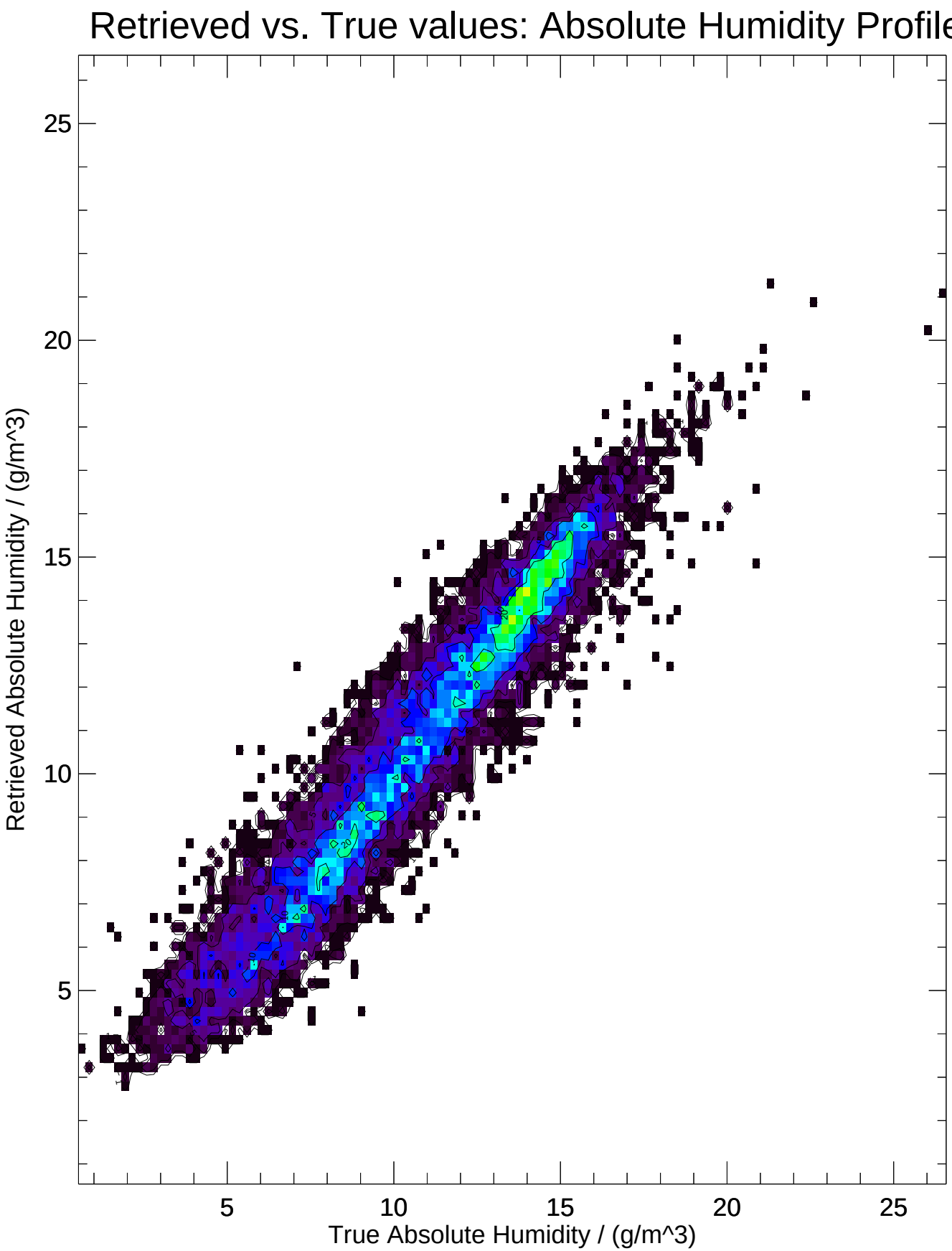

Relative Error (amplitude dependent)
Z = 520 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=26
N=277
N=638
N=989
N=1429
N=1368
N=1374
N=1518
N=1543
N=515
N=102
N=28
N=9
N=2
N=2

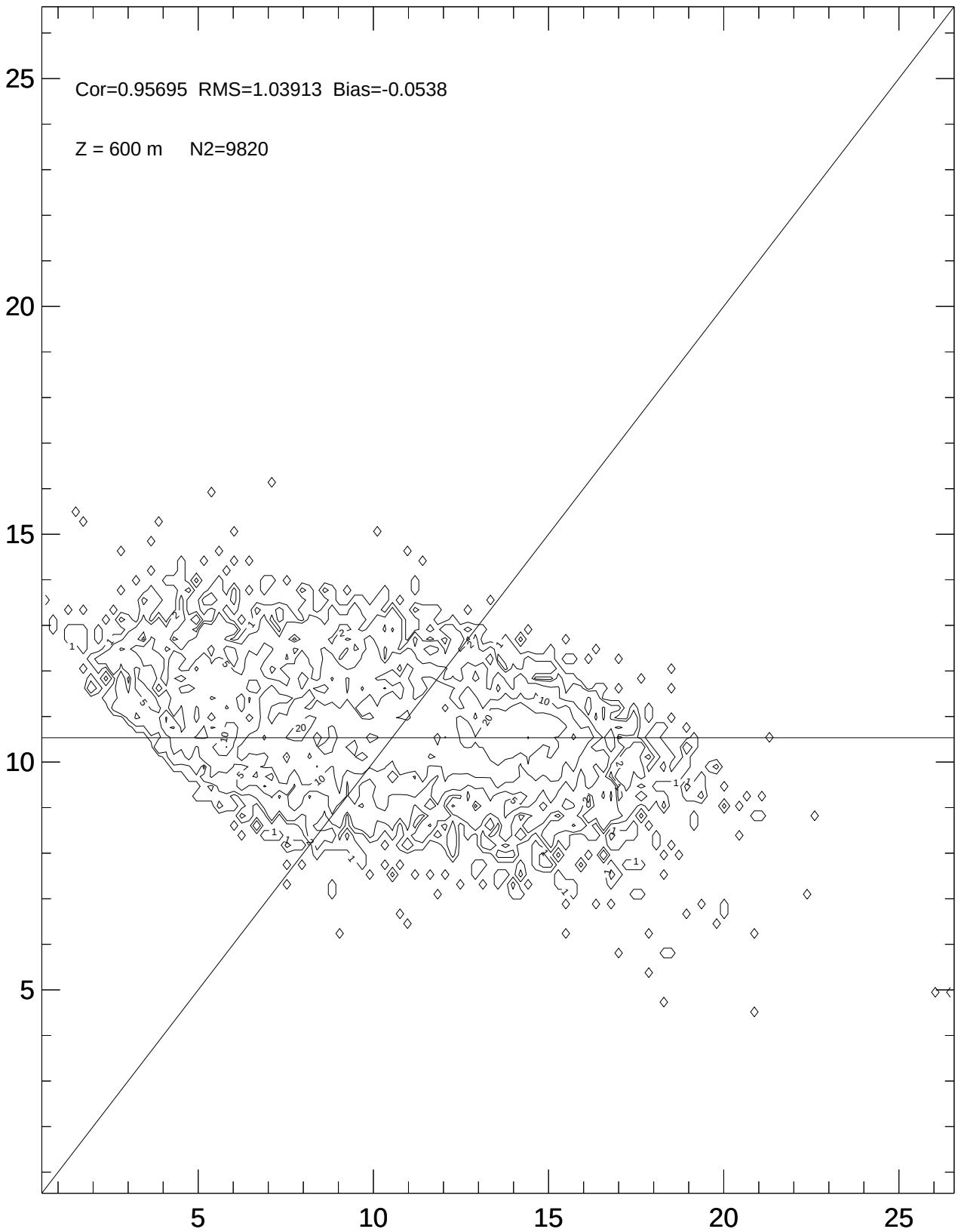

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

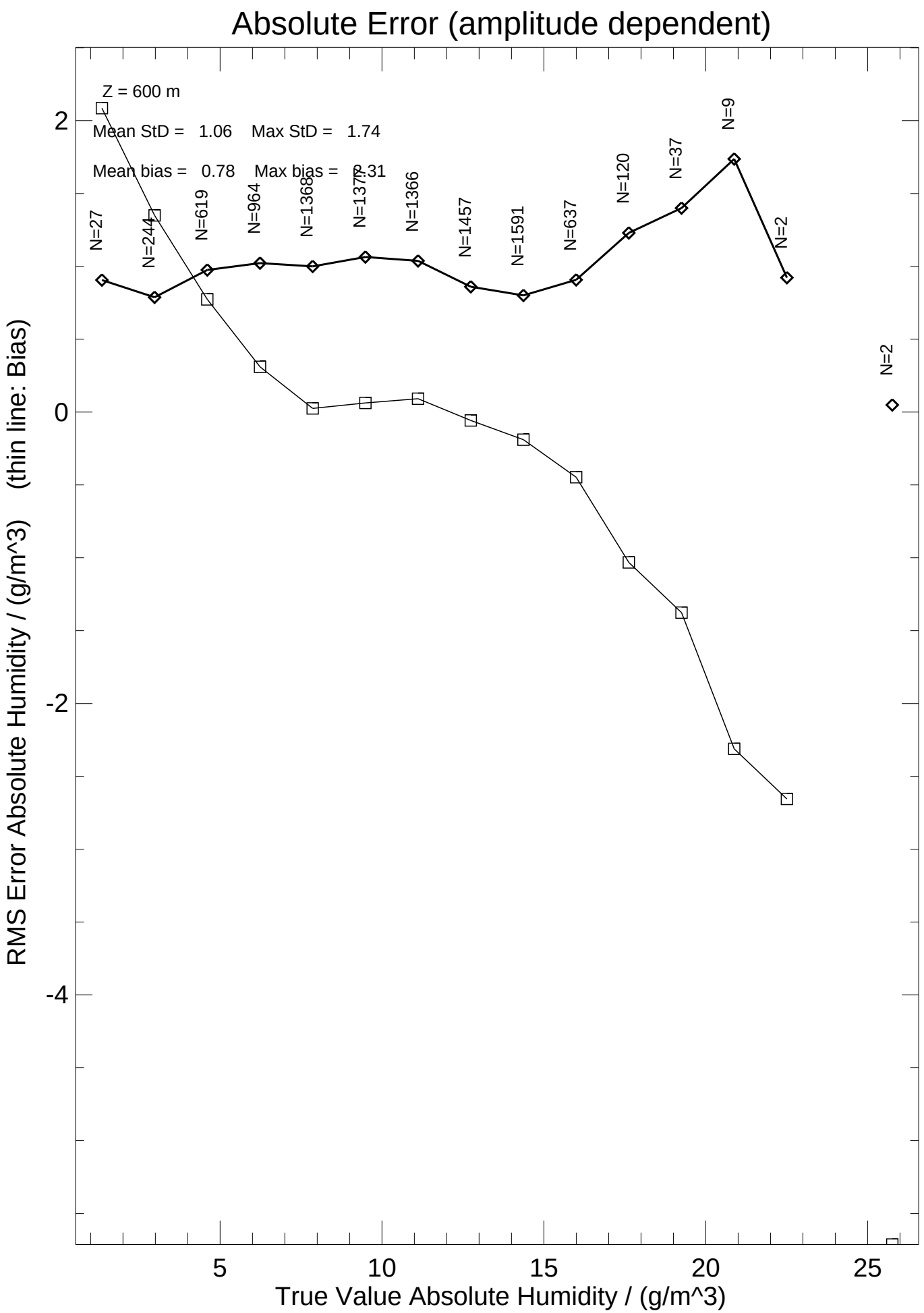

Cor=0.95441 RMS=1.08188 Bias=-0.0569
Z = 560 m N2=9820
25
20
15
10
5
5
10
15
20
25

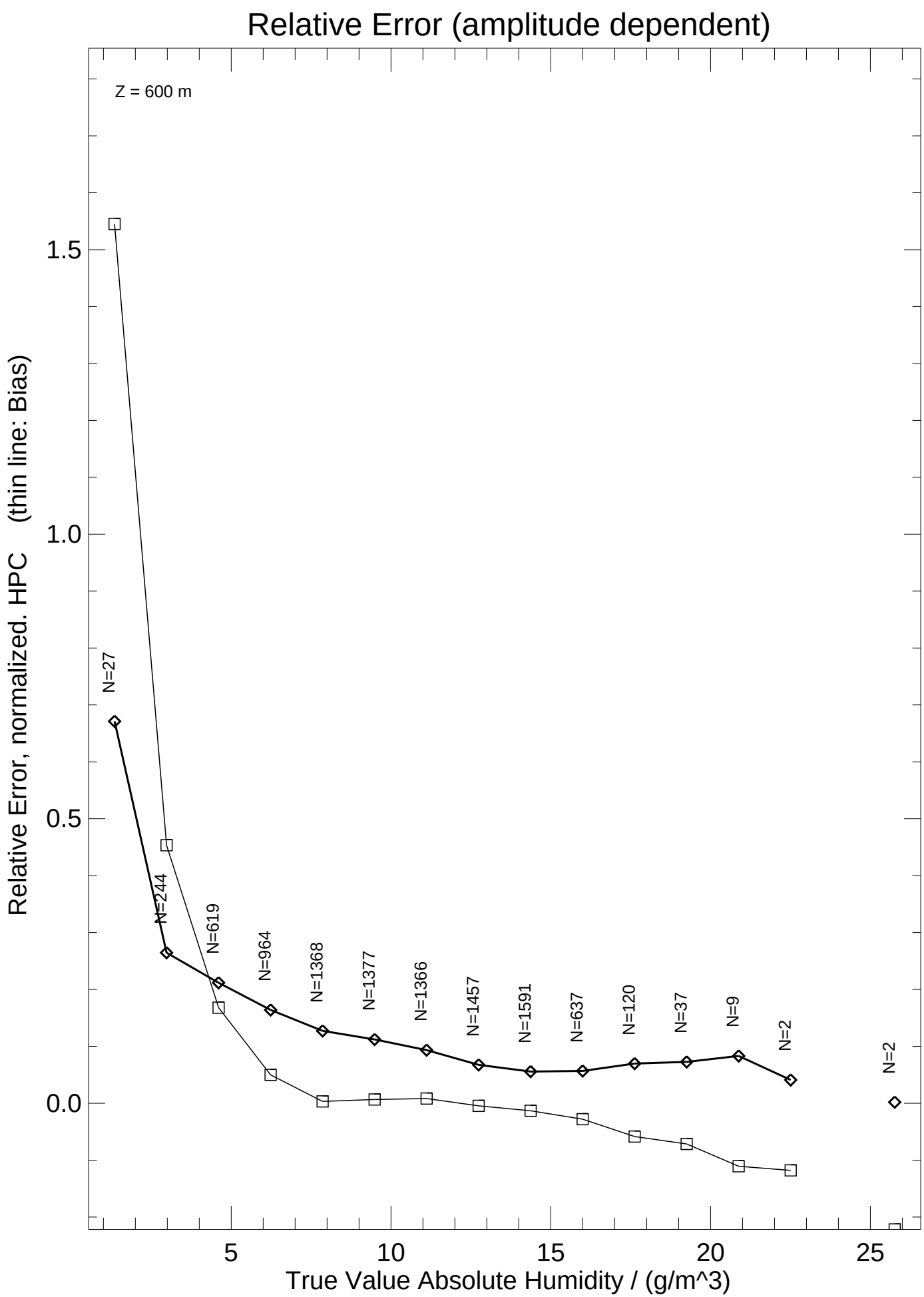

Absolute Error (amplitude dependent)
Z = 560 m
Mean StD = 1.09 Max StD = 1.96
Mean bias = 0.82 Max bias = 1.62
N=24
N=247
N=618
N=972
N=1303
N=1997
N=1349
N=1489
N=1597
N=572
N=115
N=34
N=9
N=2
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
5
10
15
20
25

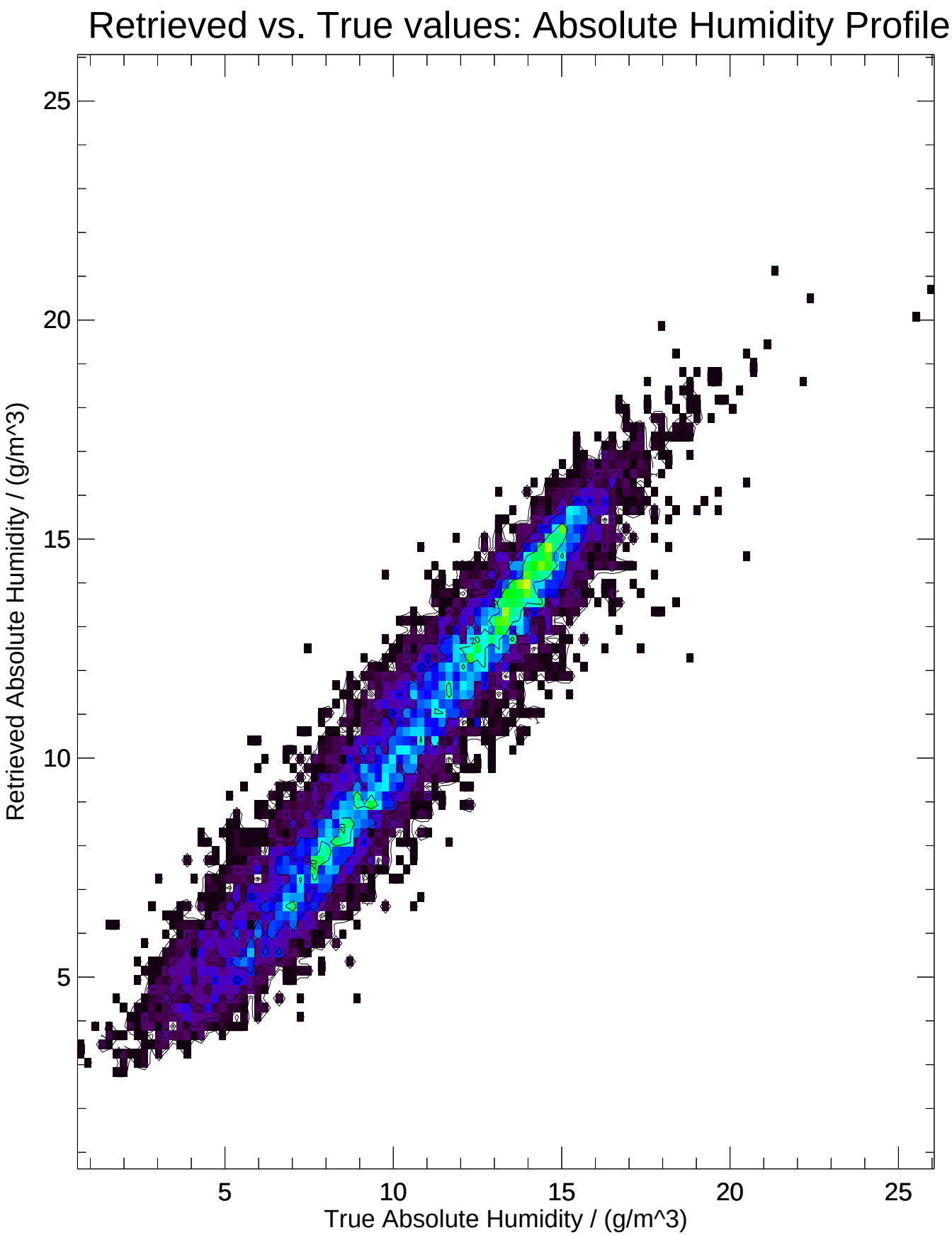

Relative Error (amplitude dependent)
Z = 560 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=24
N=247
N=618
N=972
N=1393
N=1397
N=1349
N=1489
N=1597
N=572
N=115
N=34
N=9
N=2
N=2

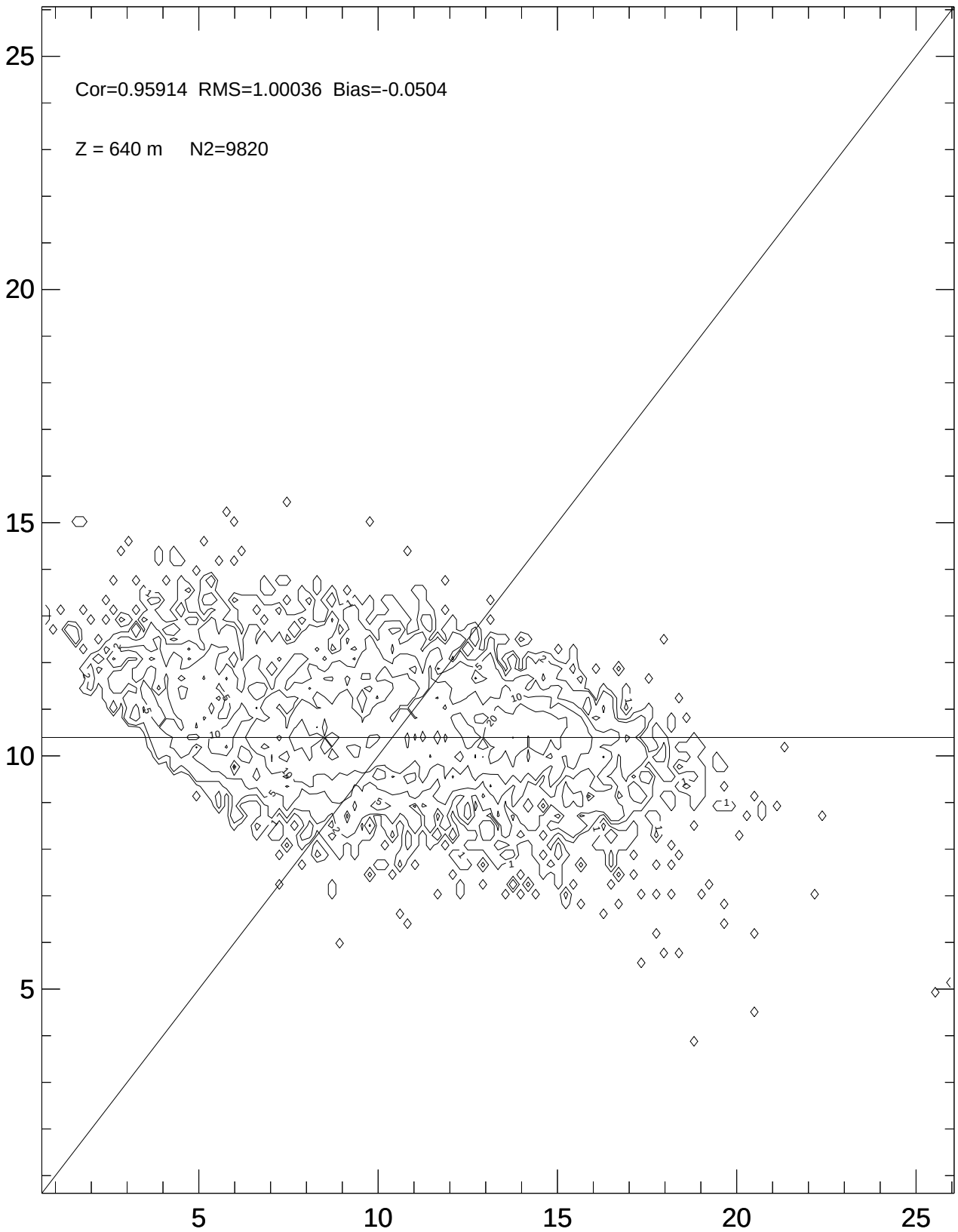

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

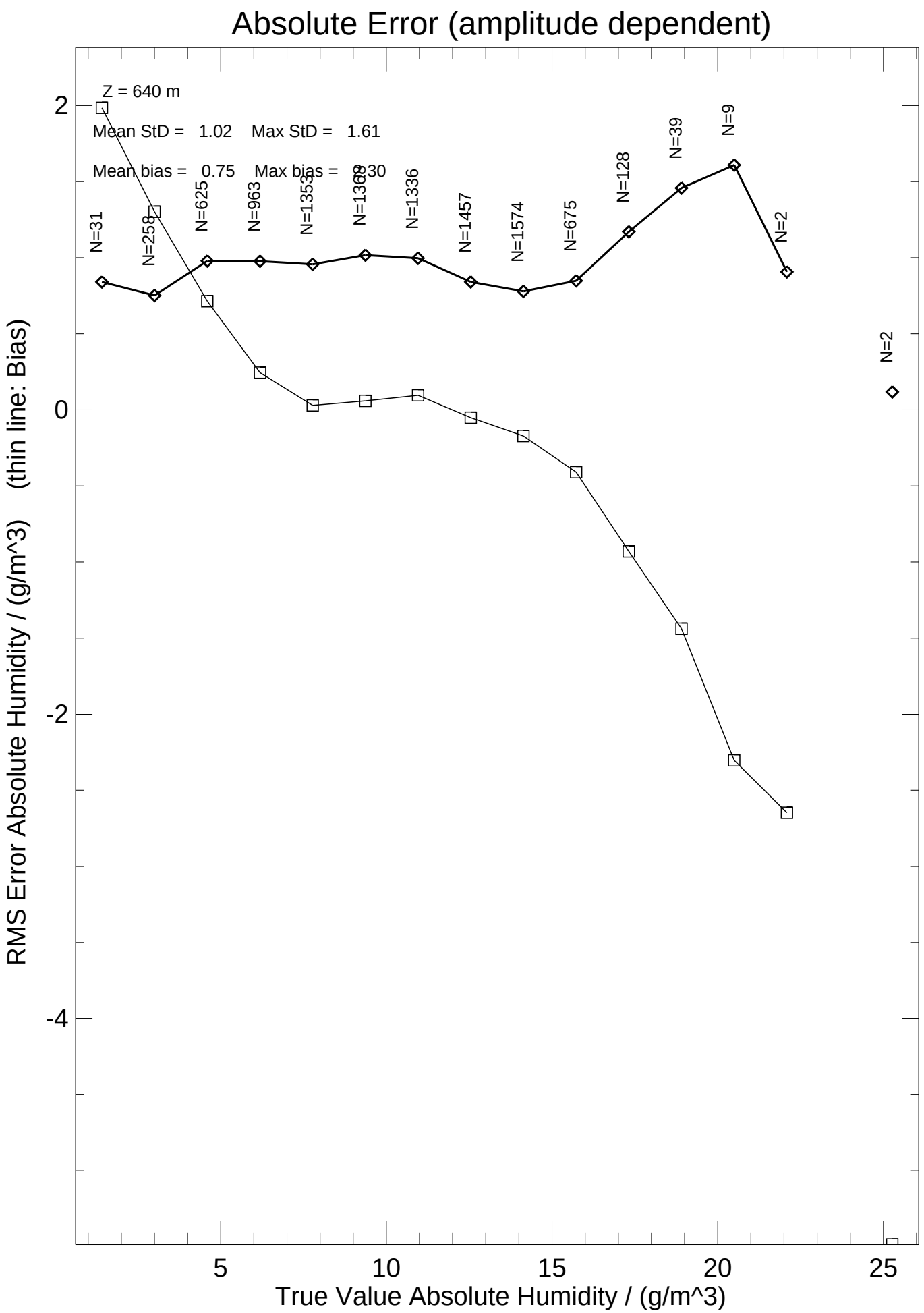

Cor=0.95695 RMS=1.03913 Bias=-0.0538
Z = 600 m N2=9820
25
20
15
10
5
5
10
15
20
25

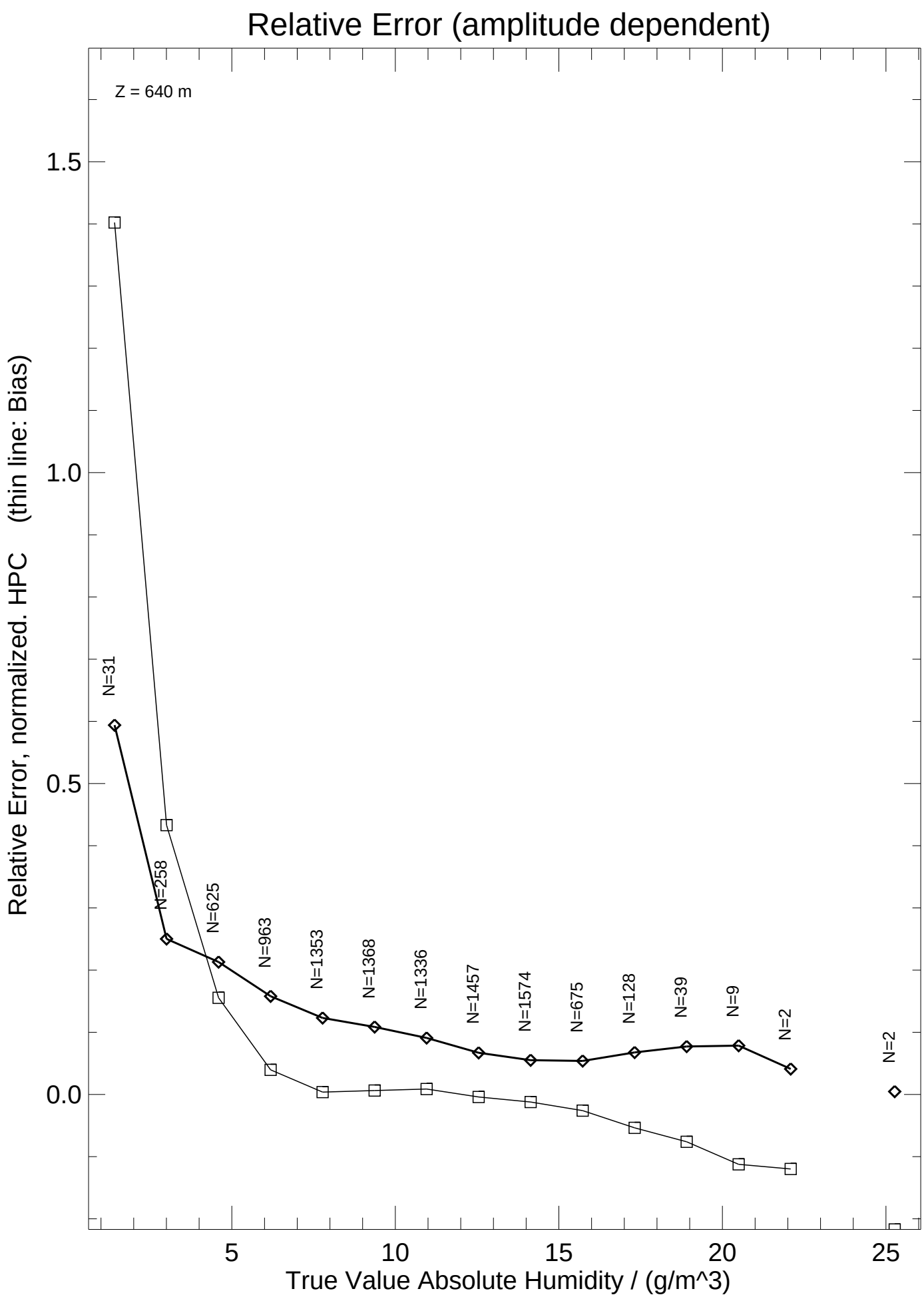

Absolute Error (amplitude dependent)
Z = 600 m
Mean StD = 1.06 Max StD = 1.74
Mean bias = 0.78 Max bias = 8.31
N=27
N=244
N=619
N=964
N=1368
N=1377
N=1366
N=1457
N=1591
N=637
N=120
N=37
N=9
N=2
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
2
0
-2
-4
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)

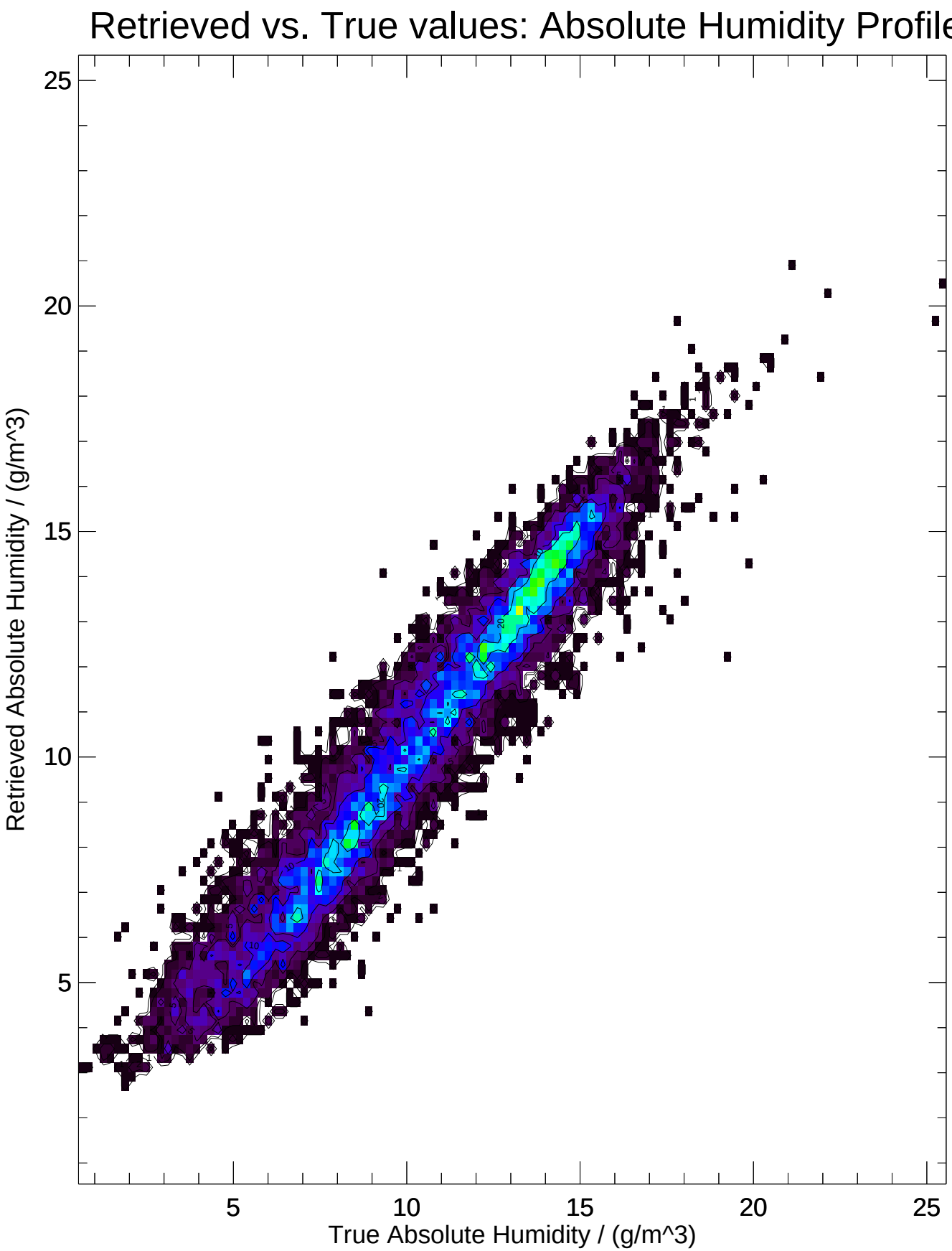

Relative Error (amplitude dependent)
Z = 600 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=27
N=244
N=619
N=964
N=1368
N=1377
N=1366
N=1457
N=1591
N=637
N=120
N=37
N=9
N=2
N=2

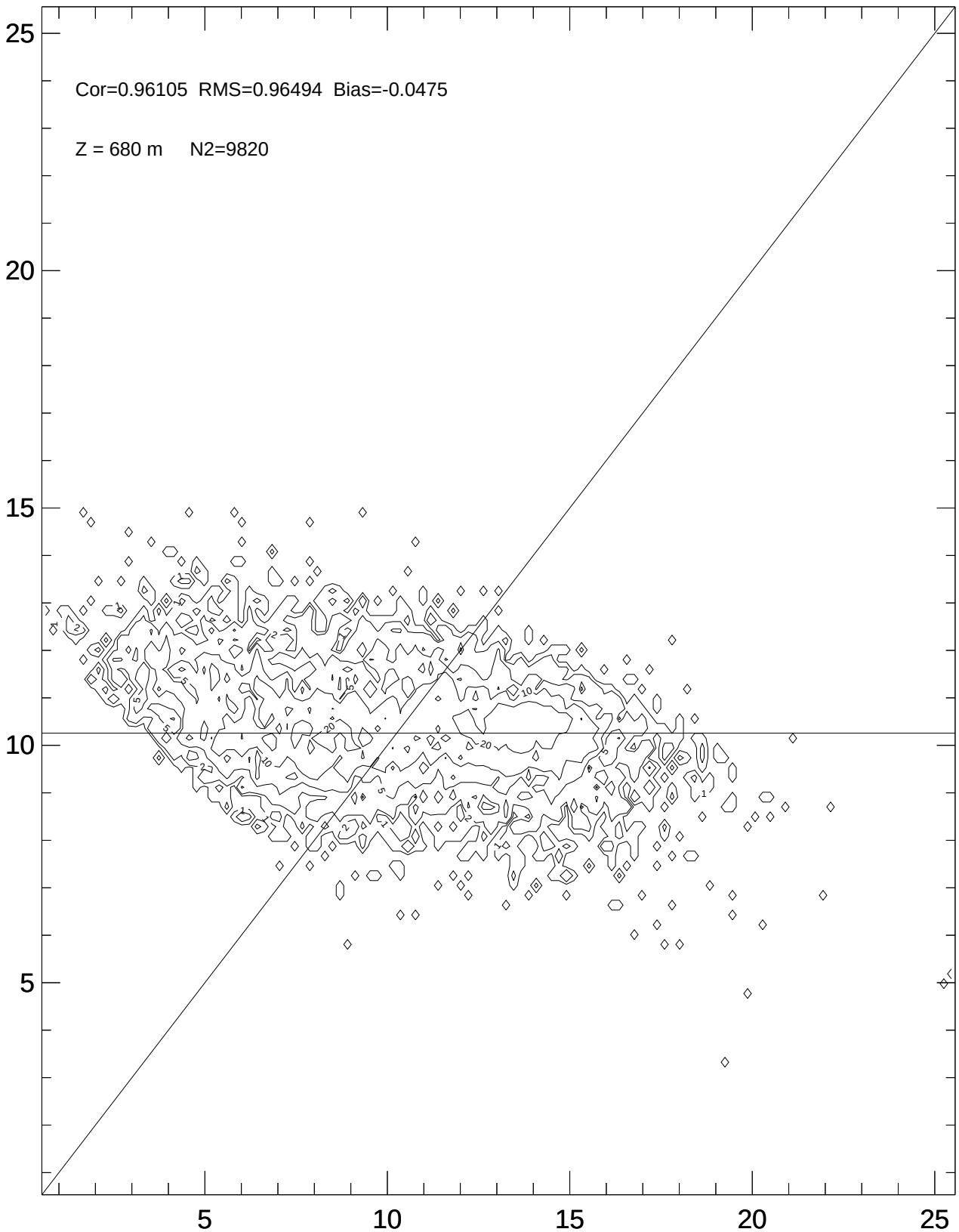

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

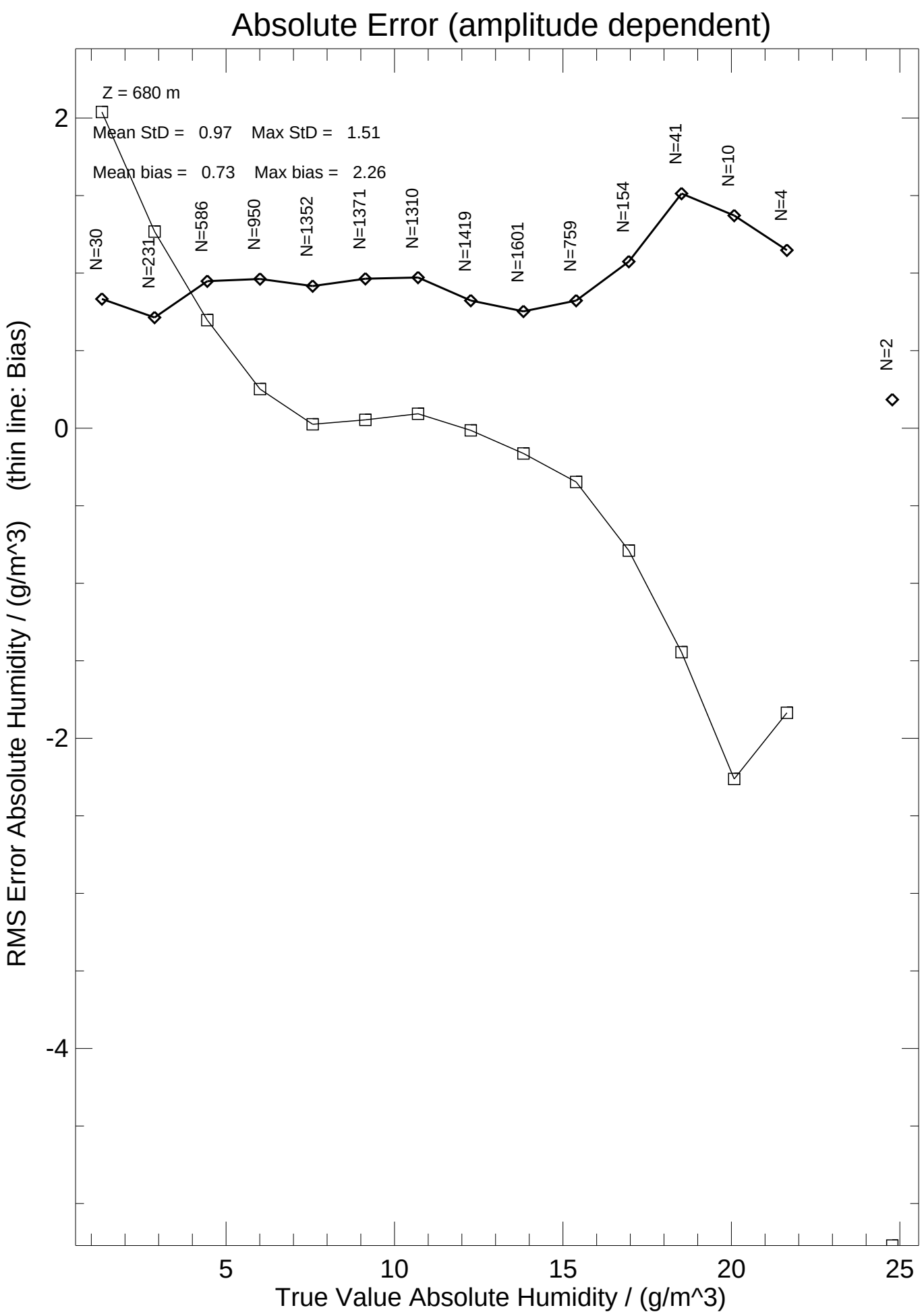

Cor=0.95914 RMS=1.00036 Bias=-0.0504
Z = 640 m N2=9820
25
20
15
10
5
5
10
15
20
25

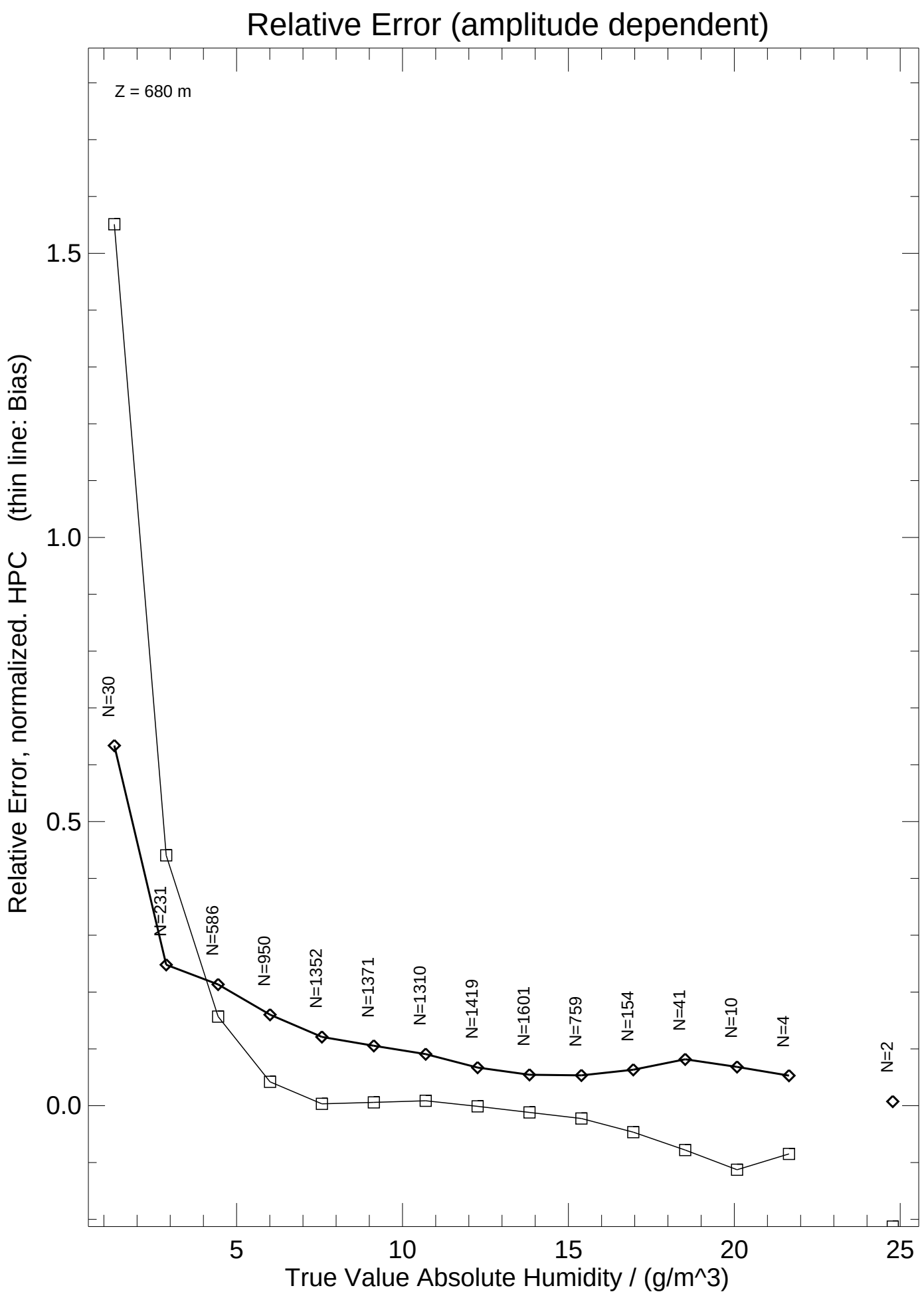

Absolute Error (amplitude dependent)
Z = 640 m
Mean StD = 1.02 Max StD = 1.61
Mean bias = 0.75 Max bias = 2.30
N=31
N=258
N=625
N=963
N=1353
N=1369
N=1336
N=1457
N=1574
N=675
N=128
N=39
N=9
N=2
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
5
10
15
20
25

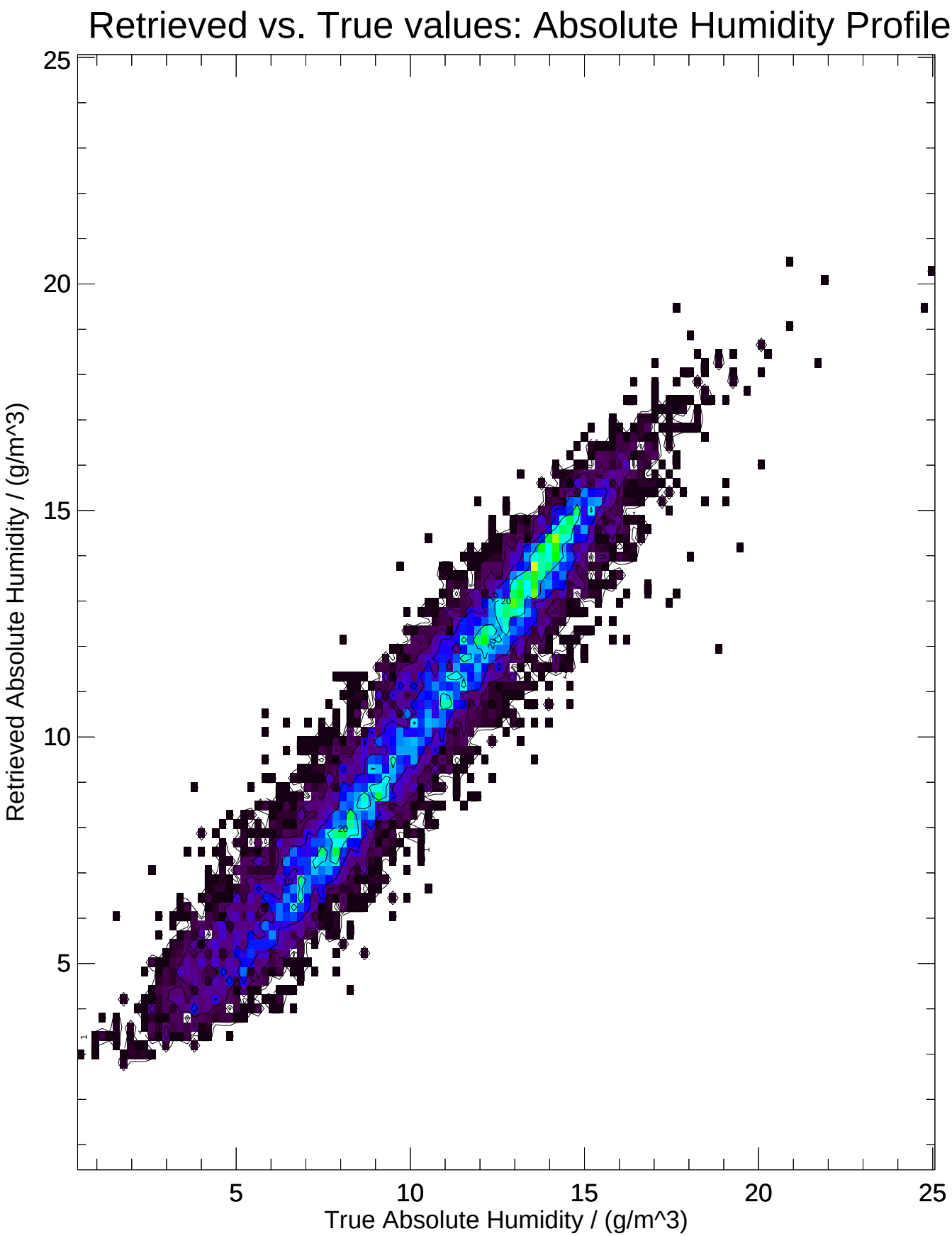

Relative Error (amplitude dependent)
Z = 640 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
N=31
N=258
N=625
N=963
N=1353
N=1368
N=1336
N=1457
N=1574
N=675
N=128
N=39
N=9
N=2
N=2
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)

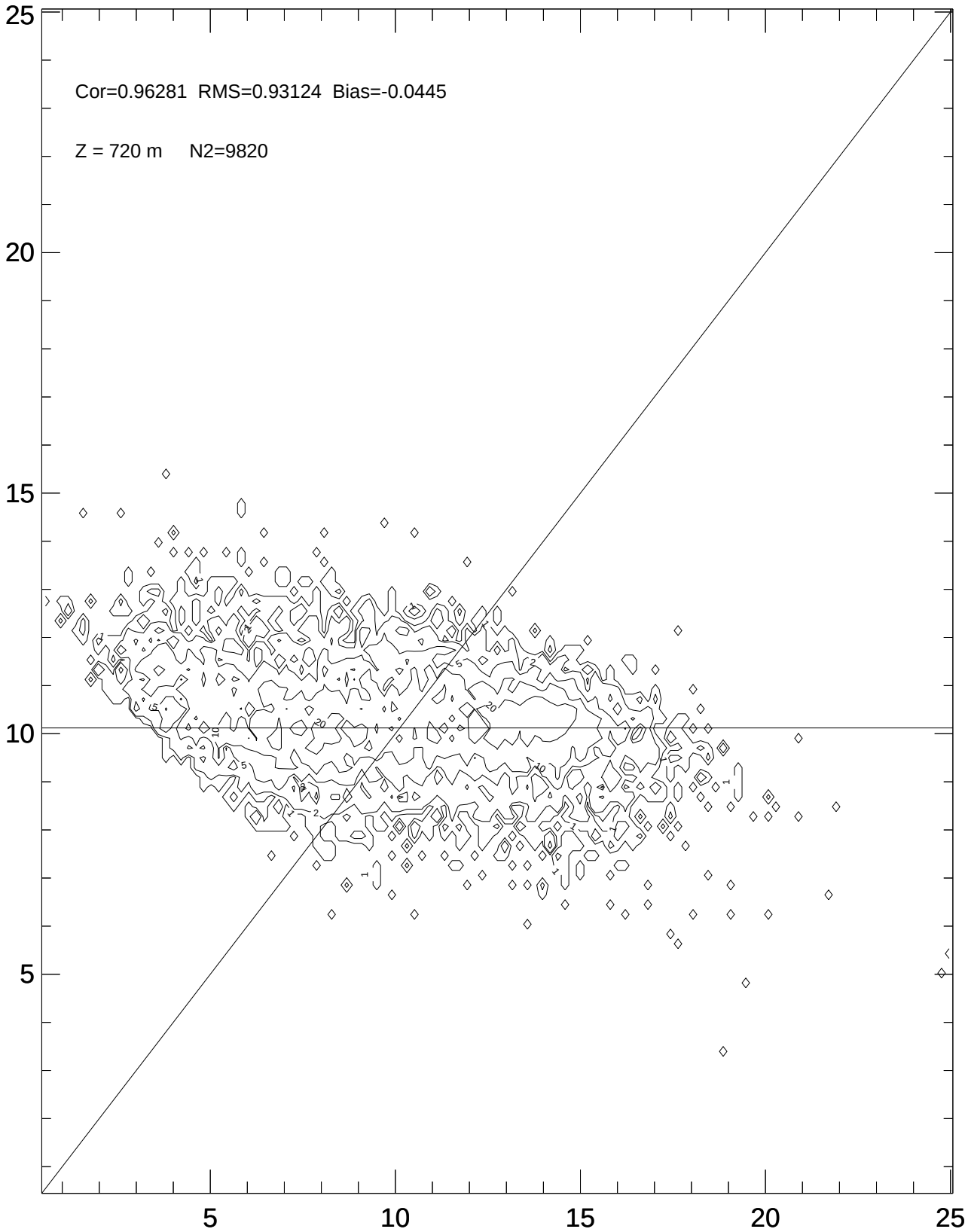

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
25

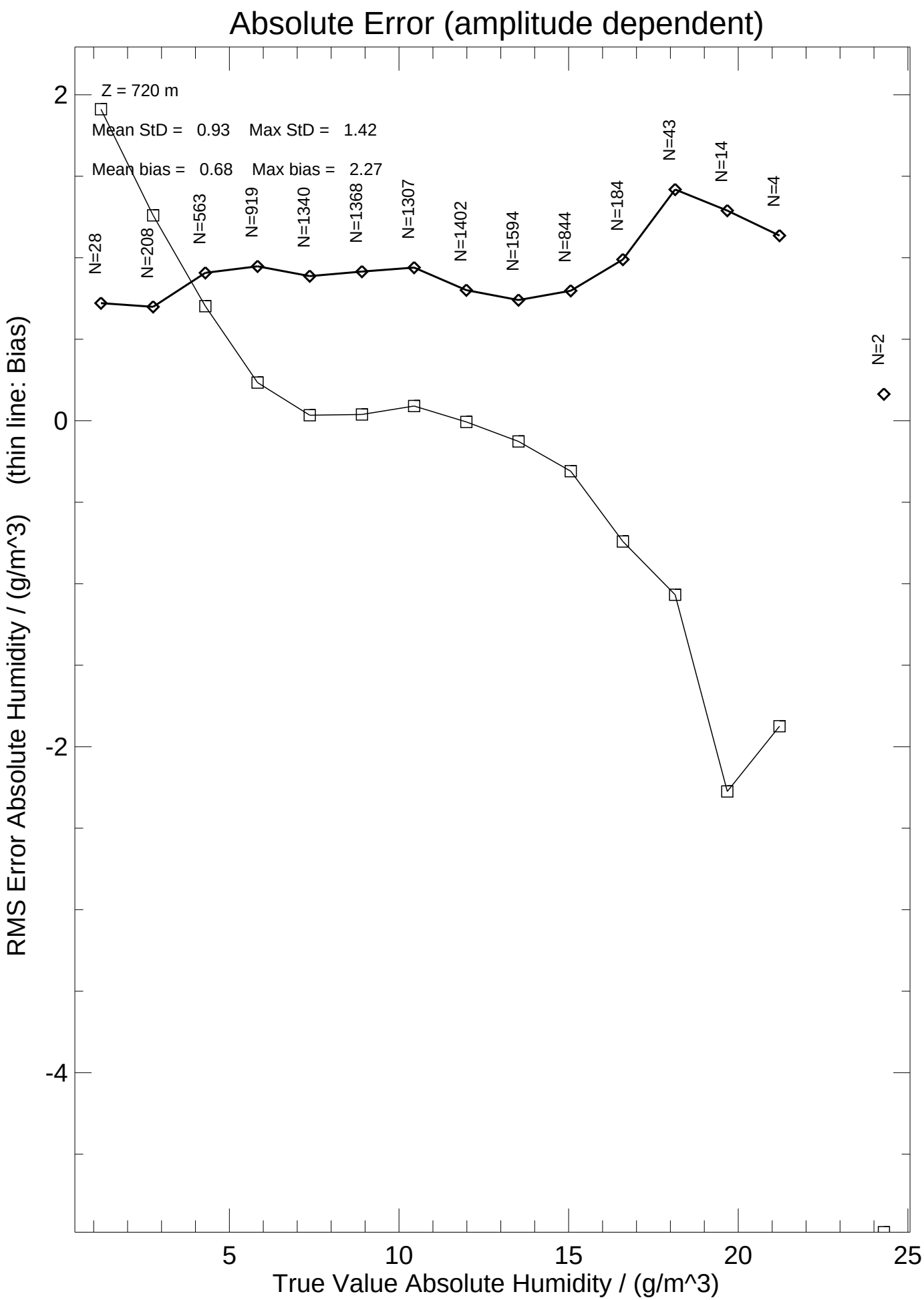

Cor=0.96105 RMS=0.96494 Bias=-0.0475
Z = 680 m N2=9820
25
20
15
10
5
5
10
15
20
25

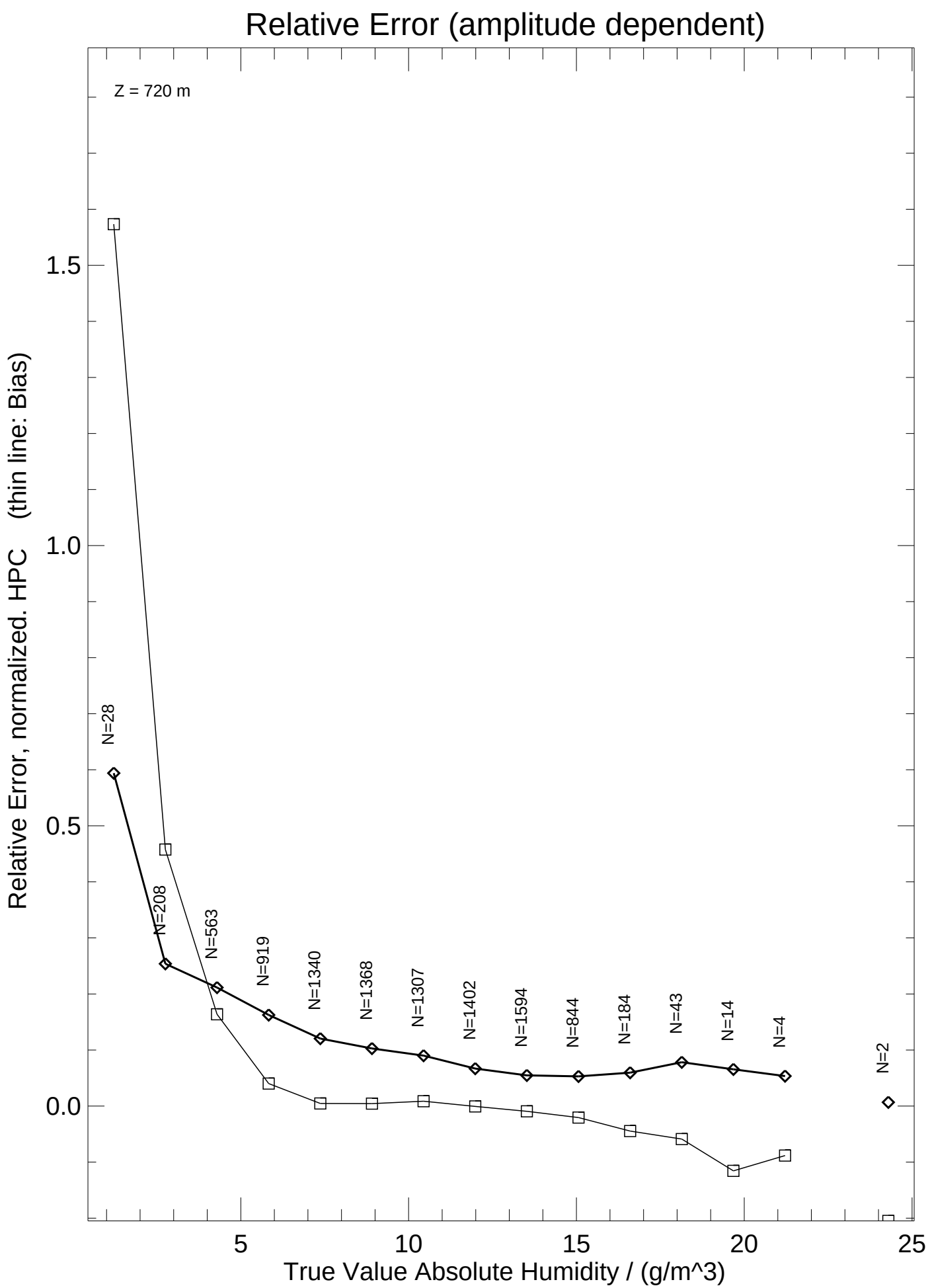

Absolute Error (amplitude dependent)
Z = 680 m
Mean StD = 0.97 Max StD = 1.51
Mean bias = 0.73 Max bias = 2.26
N=30
N=231
N=586
N=950
N=1352
N=1371
N=1310
N=1419
N=1601
N=759
N=154
N=41
N=10
N=4
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
0
-2
-4
5
10
15
20
25

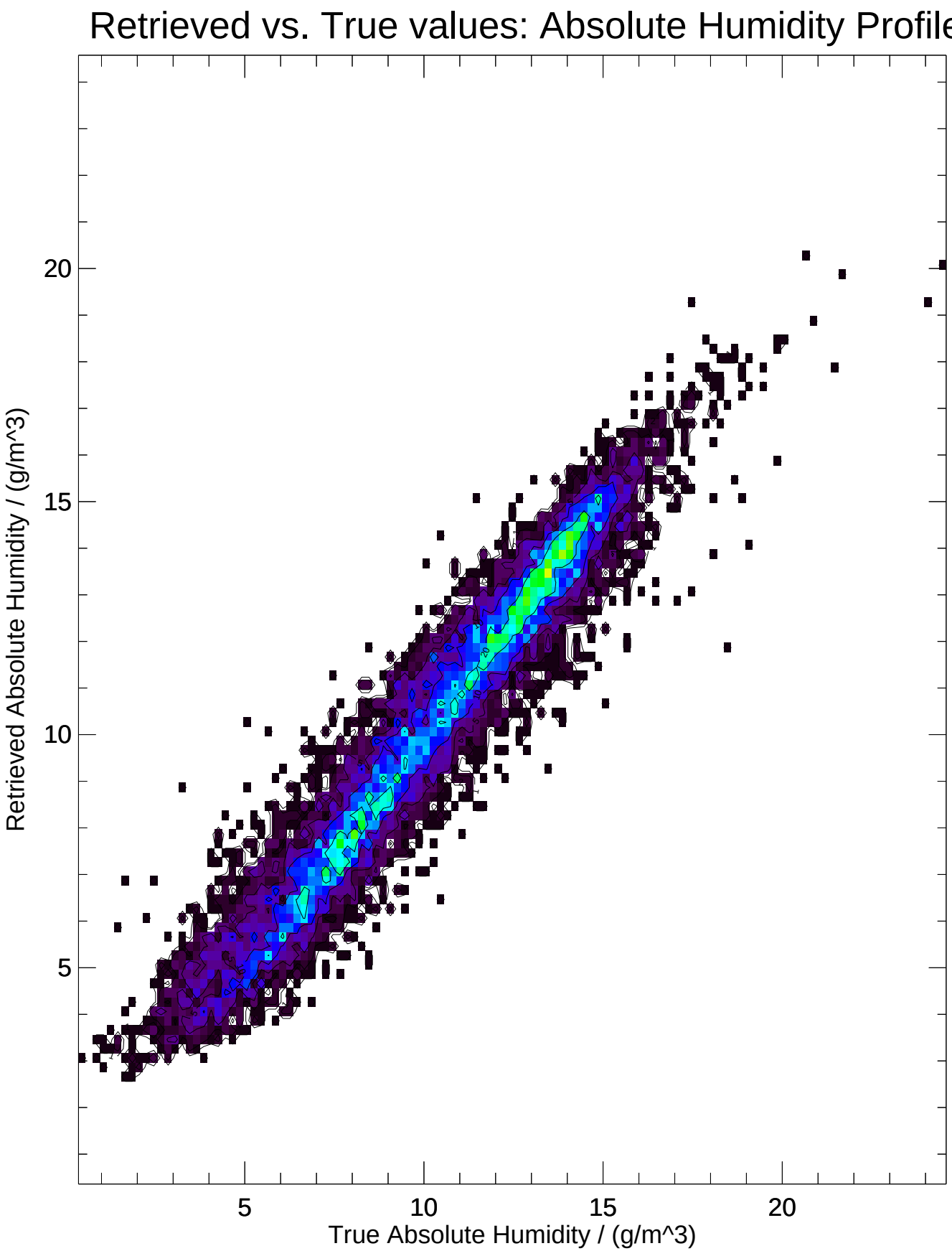

Relative Error (amplitude dependent)
Z = 680 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=30
N=231
N=586
N=950
N=1352
N=1371
N=1310
N=1419
N=1601
N=759
N=154
N=41
N=10
N=4
N=2

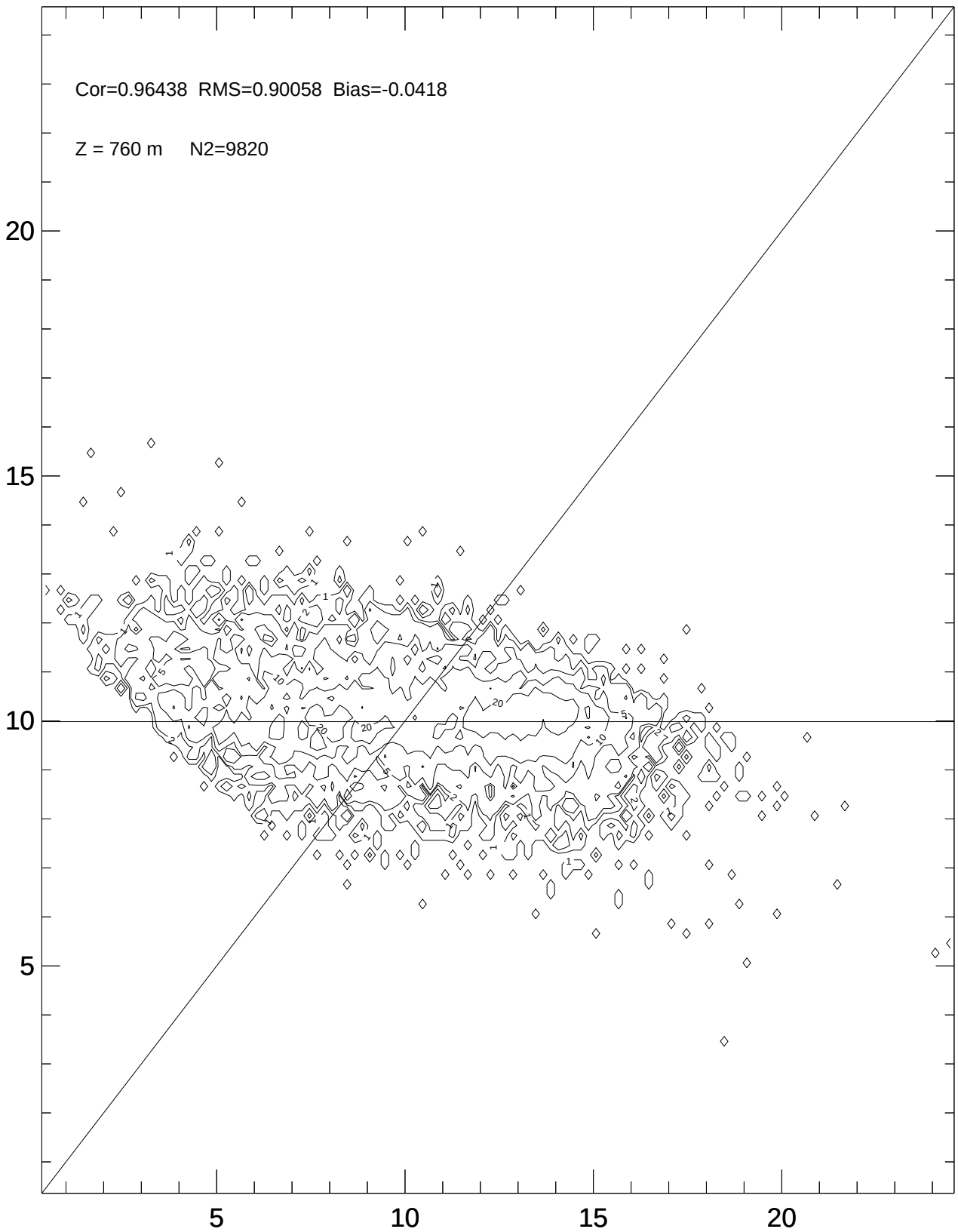

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
25
20
15
10
5
5
10
15
20
25

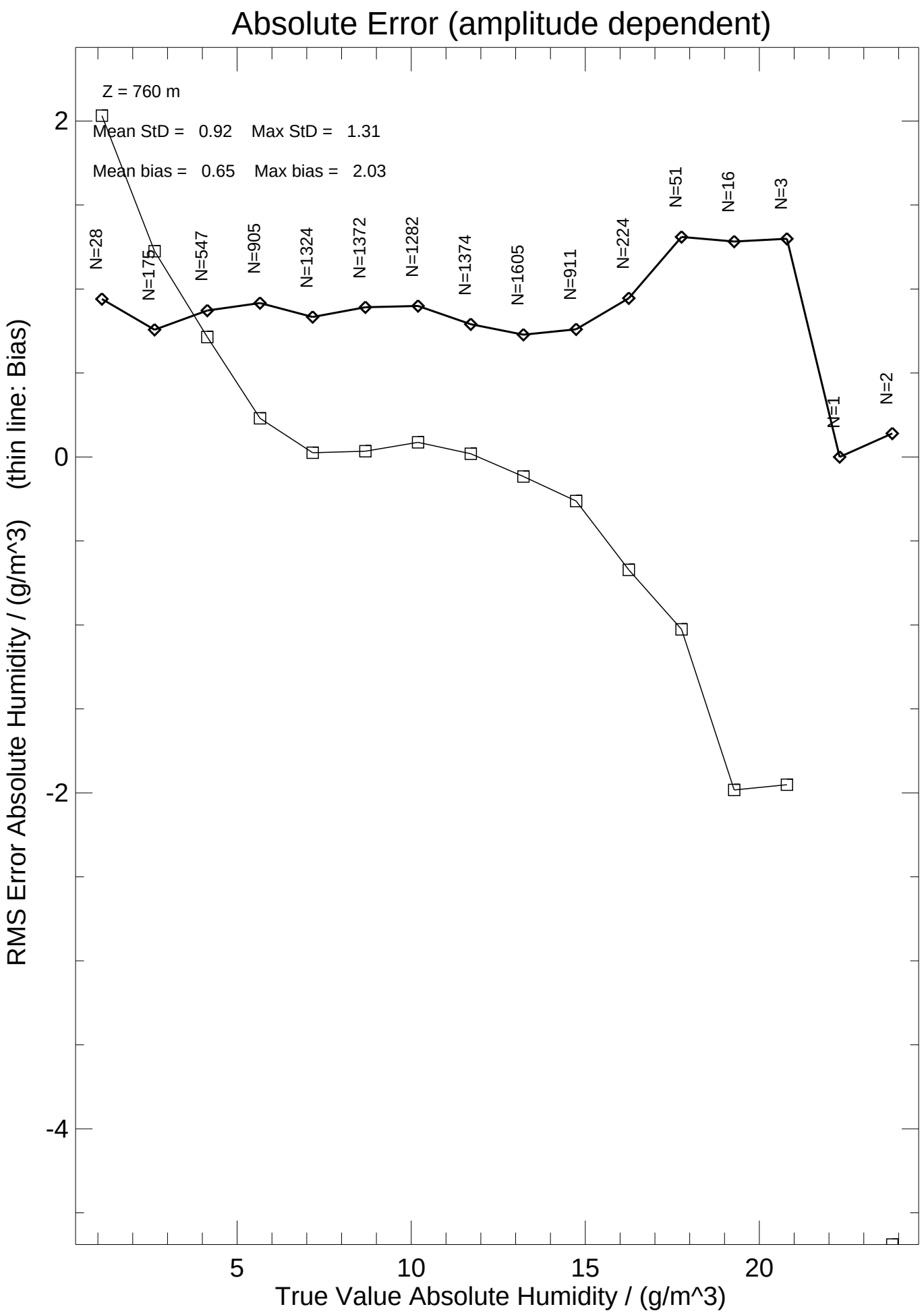

Cor=0.96281 RMS=0.93124 Bias=-0.0445
Z = 720 m N2=9820
25
20
15
10
5
5
10
15
20
25

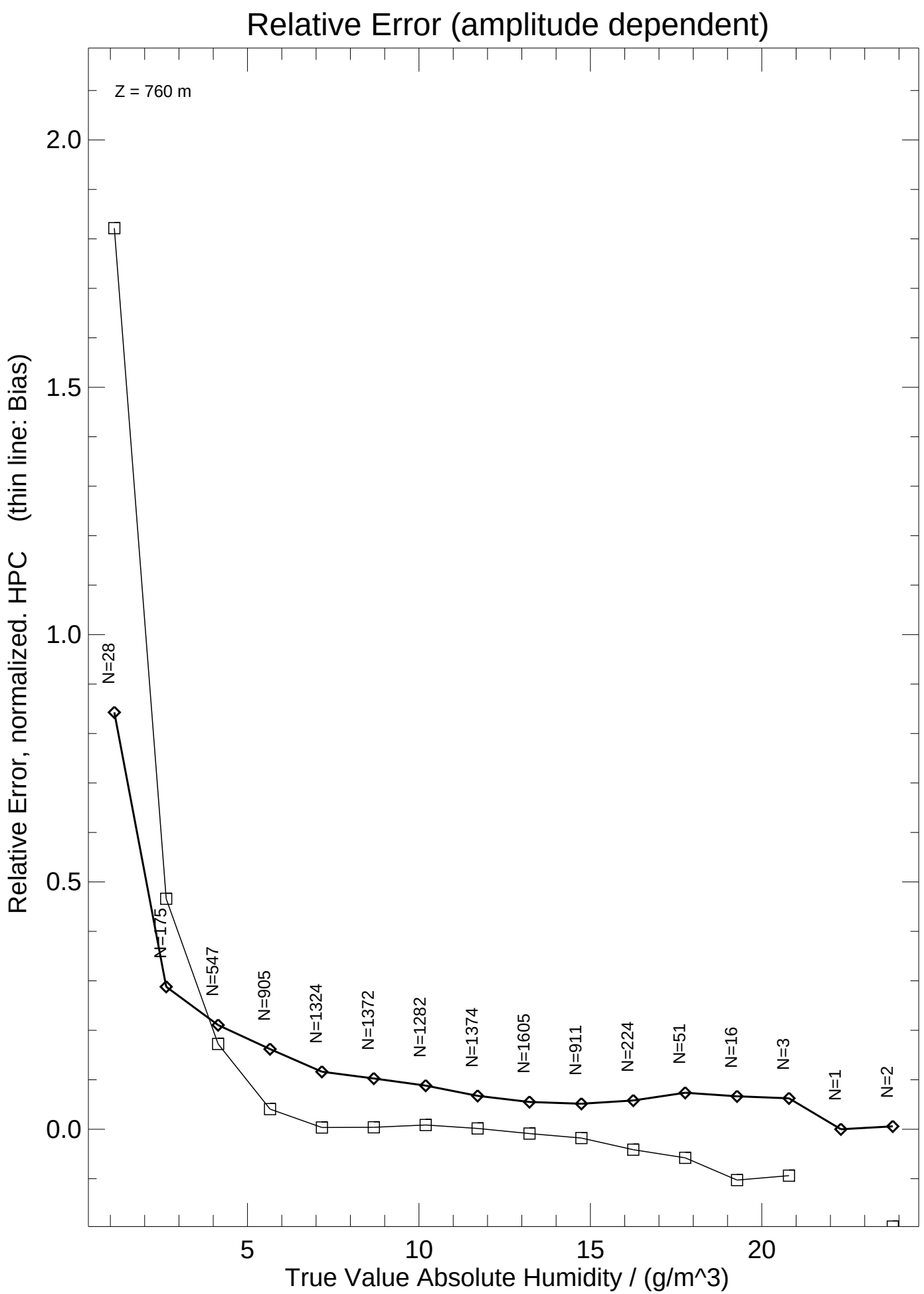

Absolute Error (amplitude dependent)
Z = 720 m
Mean StD = 0.93 Max StD = 1.42
Mean bias = 0.68 Max bias = 2.27
N=28
N=208
N=563
N=919
N=1340
N=1368
N=1307
N=1402
N=1594
N=844
N=184
N=43
N=14
N=4
N=2
2
0
-2
-4
5
10
15
20
25
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

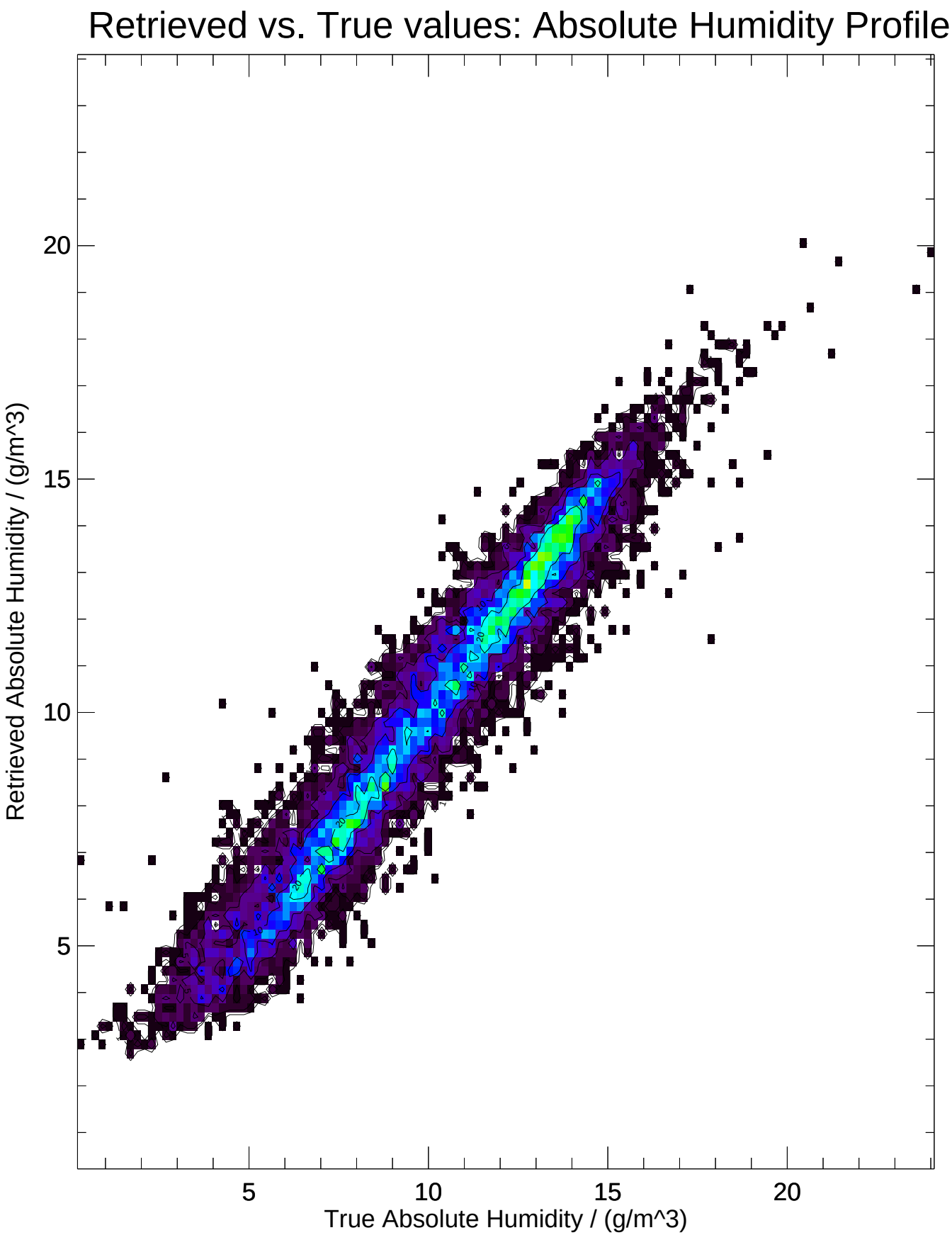

Relative Error (amplitude dependent)
Z = 720 m
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)
N=28
N=208
N=563
N=919
N=1340
N=1368
N=1307
N=1402
N=1594
N=844
N=184
N=43
N=14
N=4
N=2

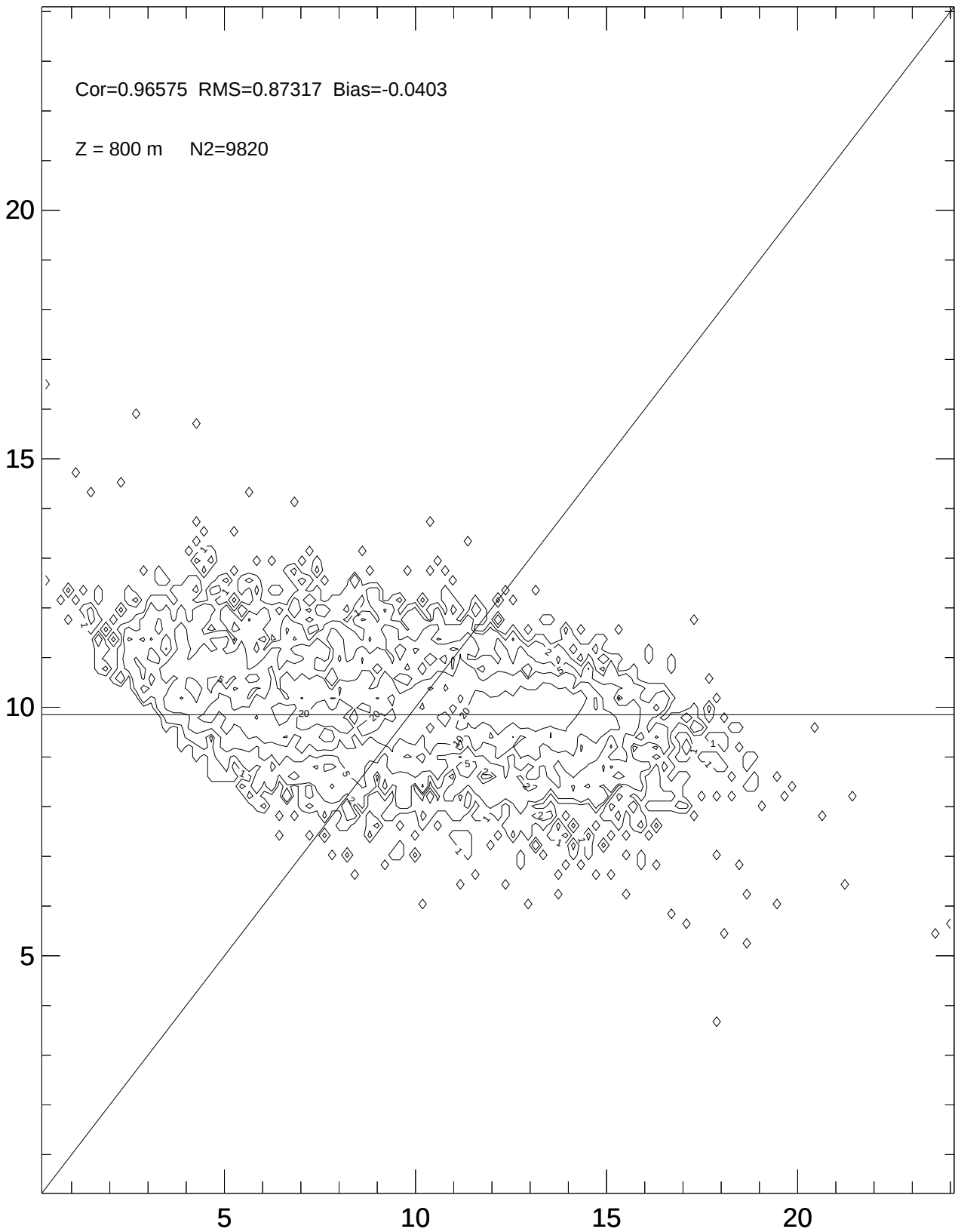

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
5
10
15
20

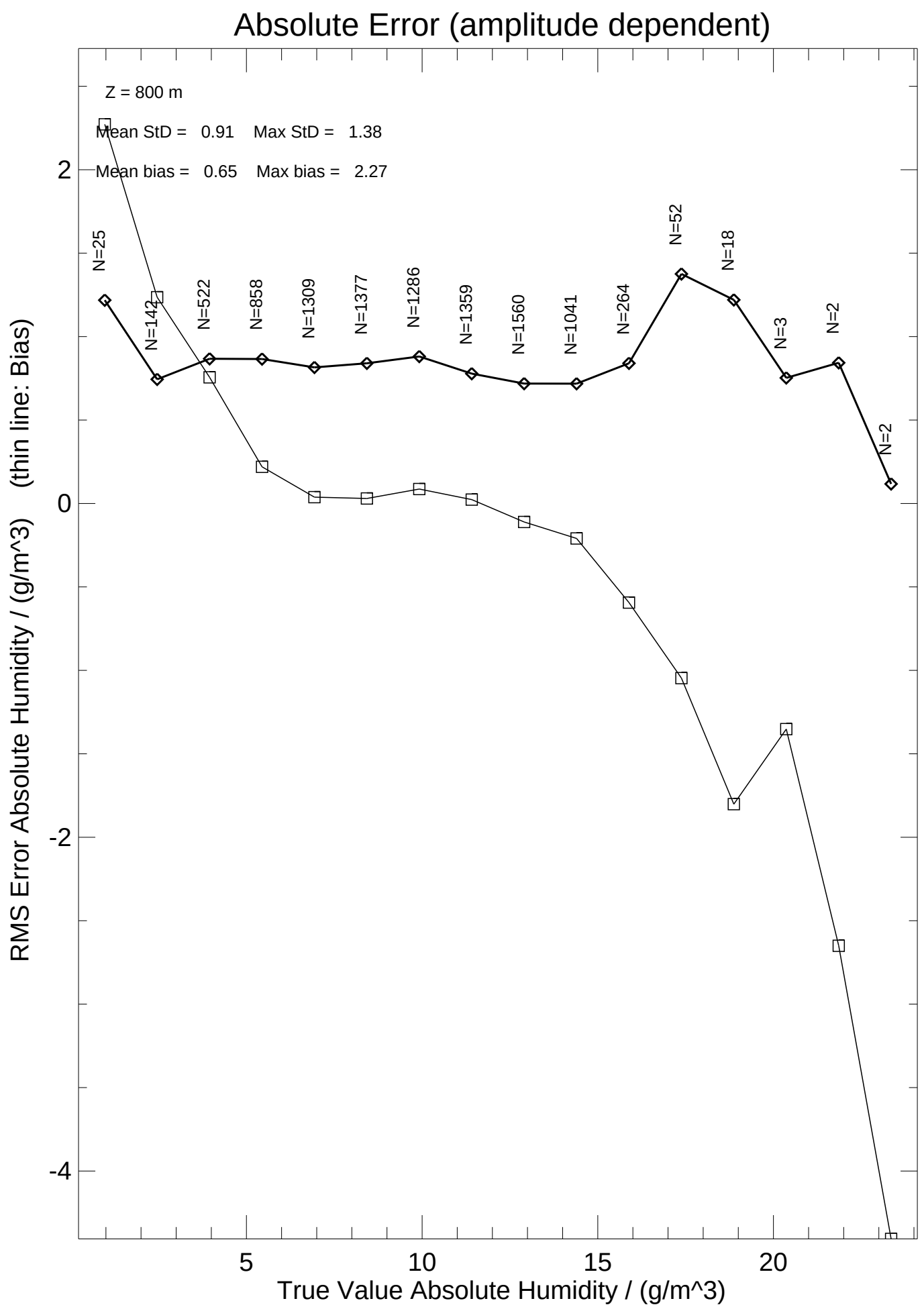

Cor=0.96438 RMS=0.90058 Bias=-0.0418
Z = 760 m N2=9820
20
15
10
5
5
10
15
20

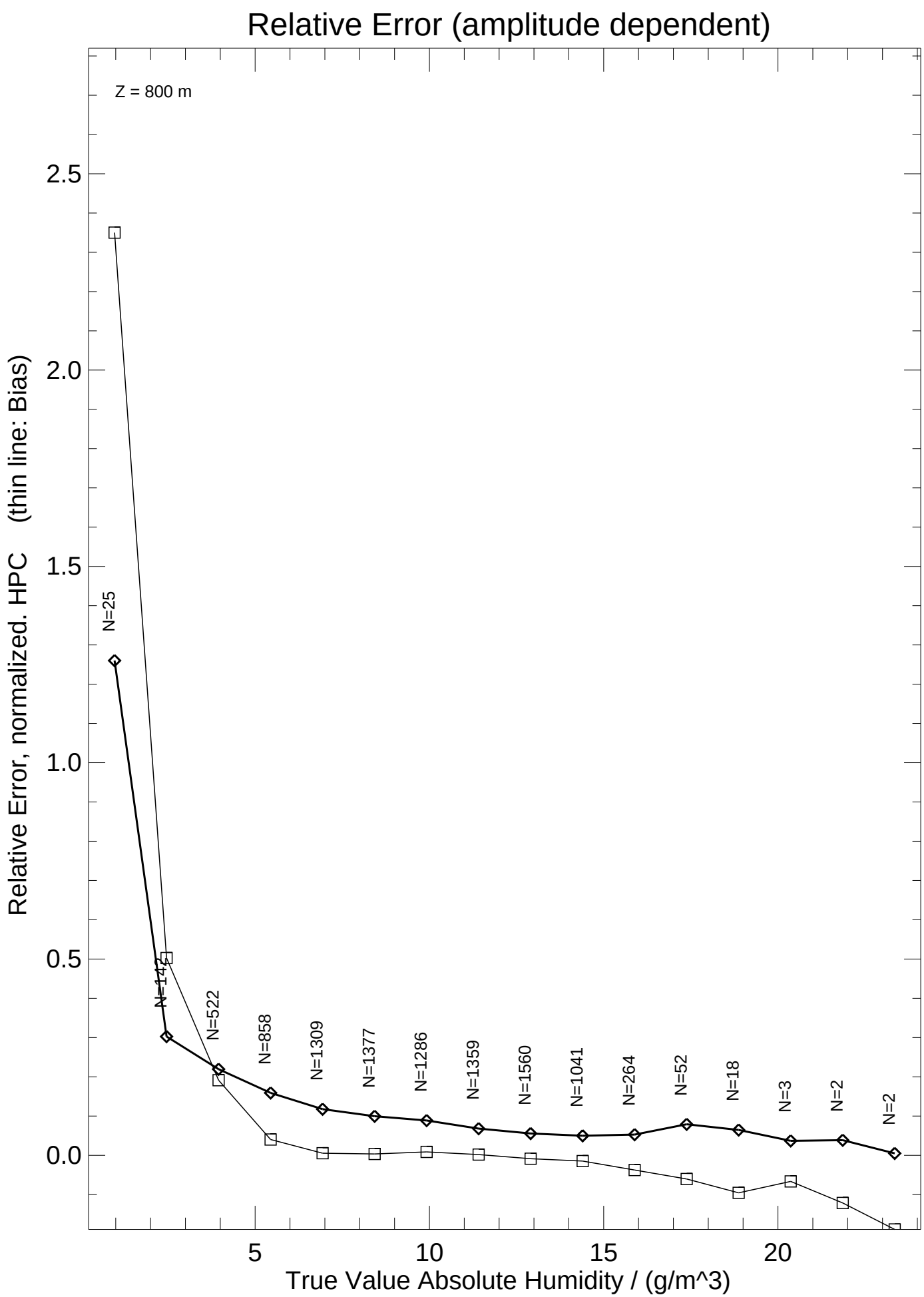

Absolute Error (amplitude dependent)
Z = 760 m
Mean StD = 0.92 Max StD = 1.31
Mean bias = 0.65 Max bias = 2.03
N=28
N=175
N=547
N=905
N=1324
N=1372
N=1282
N=1374
N=1605
N=911
N=224
N=51
N=16
N=3
N=1
N=2
2
0
-2
-4
5
10
15
20
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

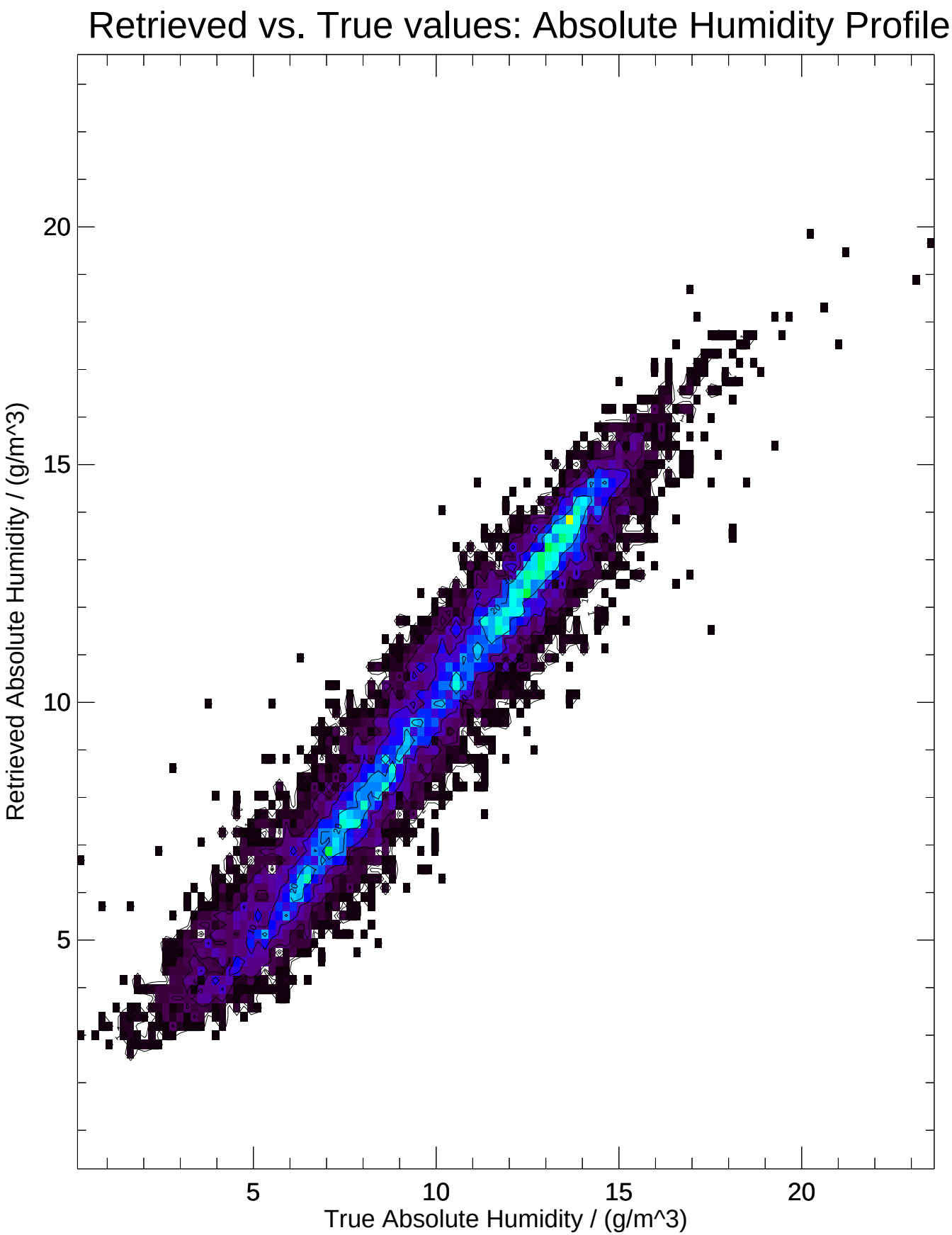

Relative Error (amplitude dependent)
Z = 760 m
Relative Error, normalized. HPC (thin line: Bias)
2.0
1.5
1.0
0.5
0.0
5
10
15
20
True Value Absolute Humidity / (g/m^3)
N=28
N=175
N=547
N=905
N=1324
N=1372
N=1282
N=1374
N=1605
N=911
N=224
N=51
N=16
N=3
N=1
N=2

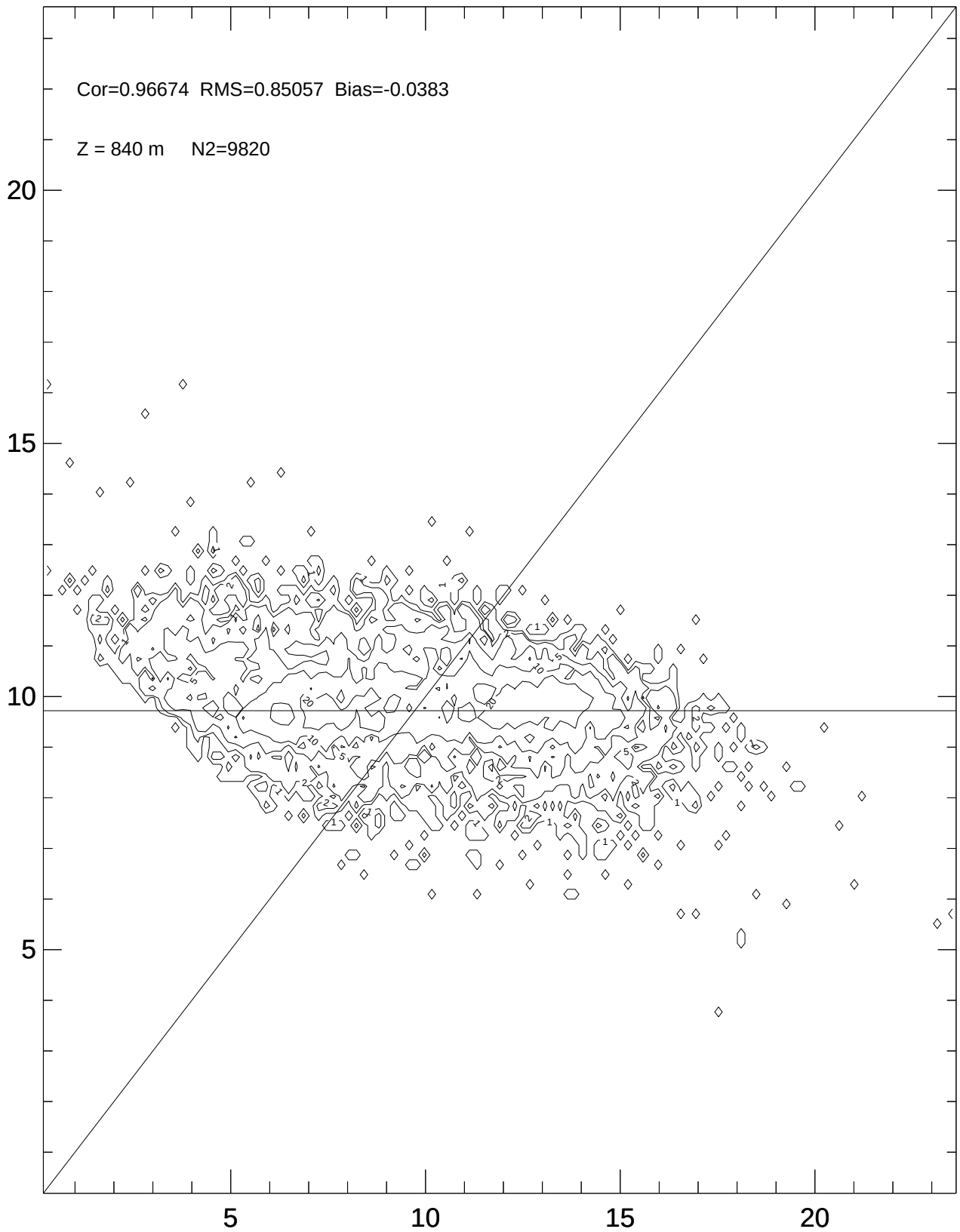

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
5
10
15
20

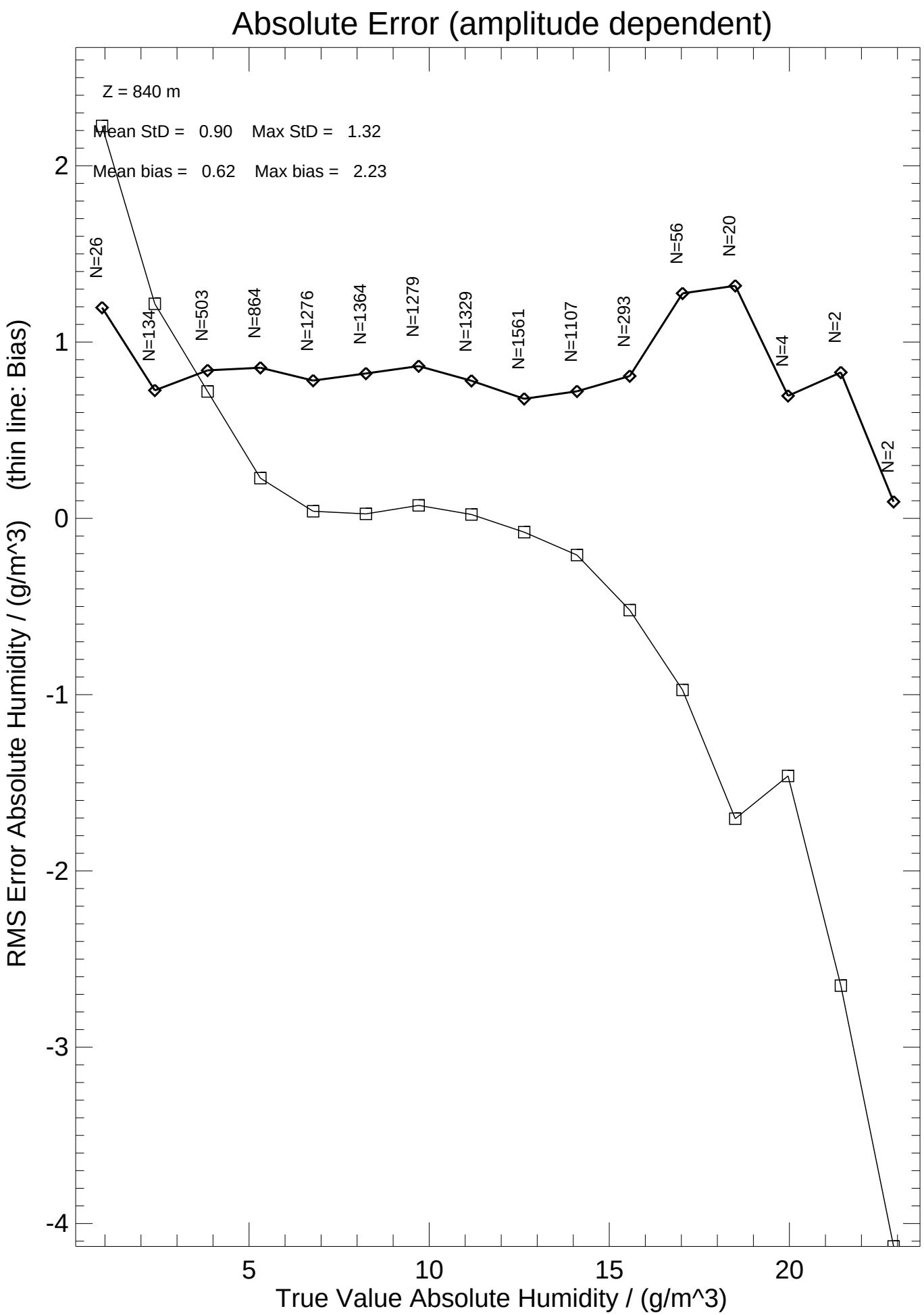

Cor=0.96575 RMS=0.87317 Bias=-0.0403
Z = 800 m N2=9820
20
15
10
5
5
10
15
20

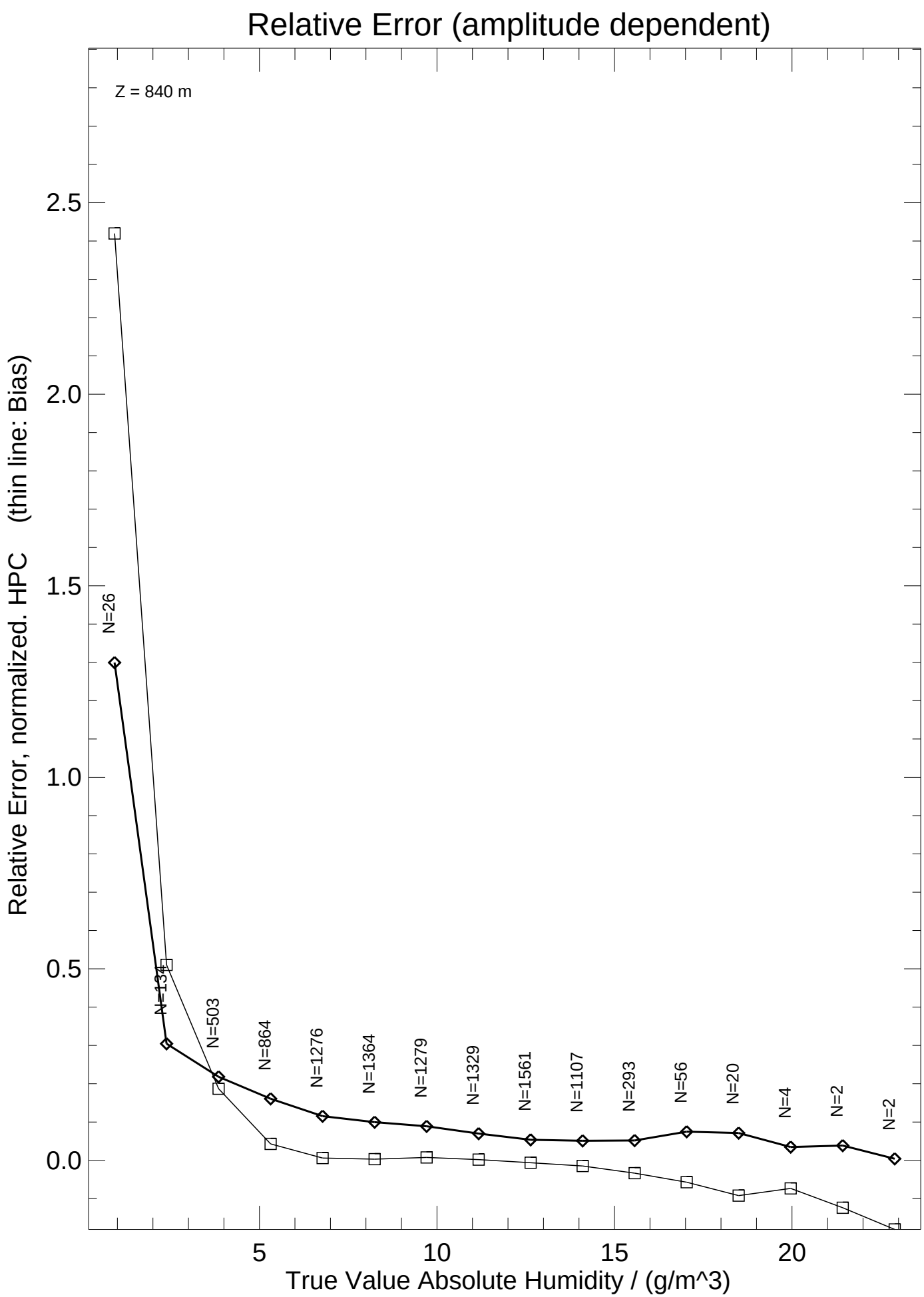

Absolute Error (amplitude dependent)
Z = 800 m
Mean StD = 0.91 Max StD = 1.38
Mean bias = 0.65 Max bias = 2.27
N=25
N=142
N=522
N=858
N=1309
N=1377
N=1286
N=1359
N=1560
N=1041
N=264
N=52
N=18
N=3
N=2
N=2
2
0
-2
-4
5
10
15
20
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

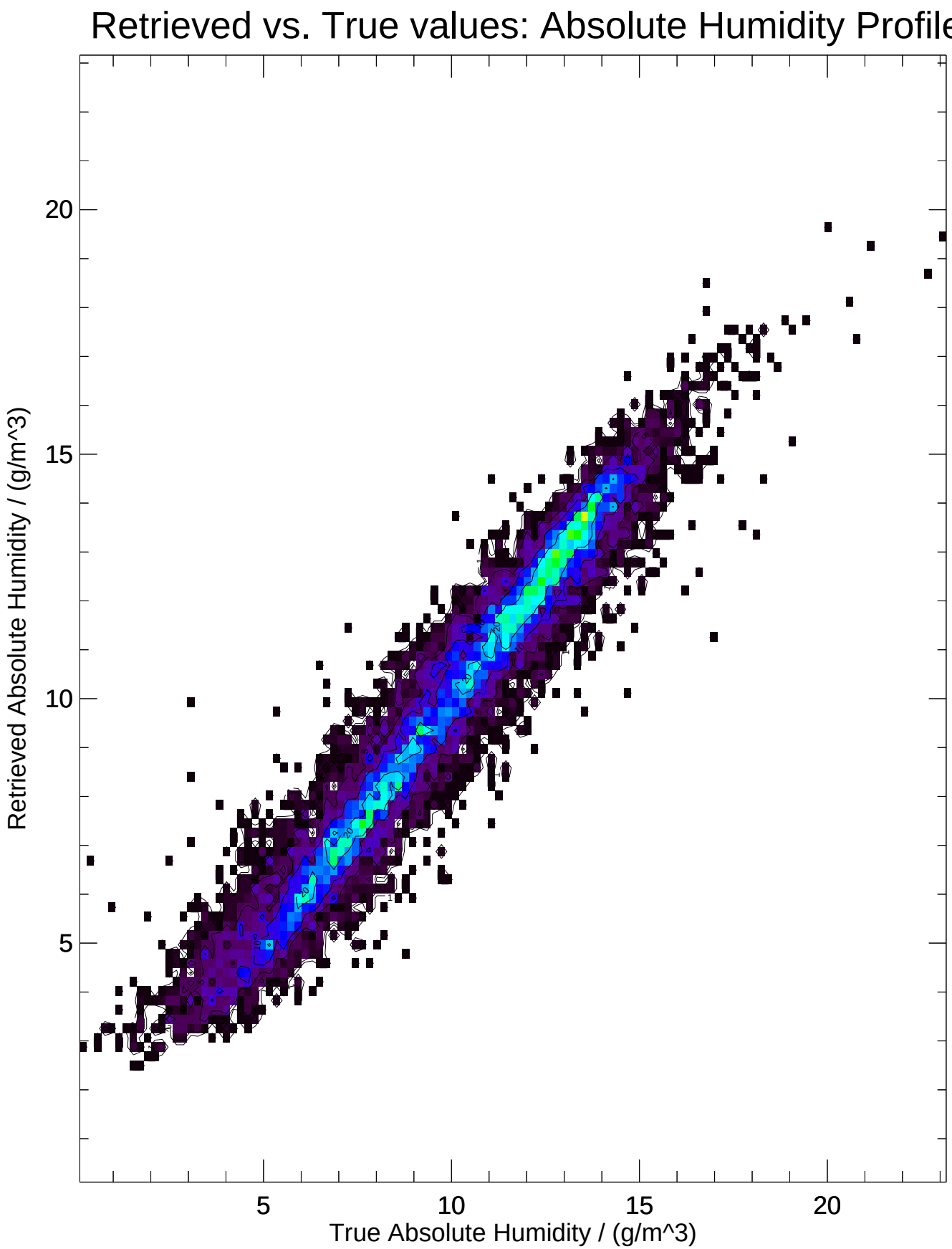

Relative Error (amplitude dependent)
Z = 800 m
Relative Error, normalized. HPC (thin line: Bias)
2.5
2.0
1.5
1.0
0.5
0.0
5
10
15
20
True Value Absolute Humidity / (g/m^3)
N=25
N=142
N=522
N=858
N=1309
N=1377
N=1286
N=1359
N=1560
N=1041
N=264
N=52
N=18
N=3
N=2
N=2

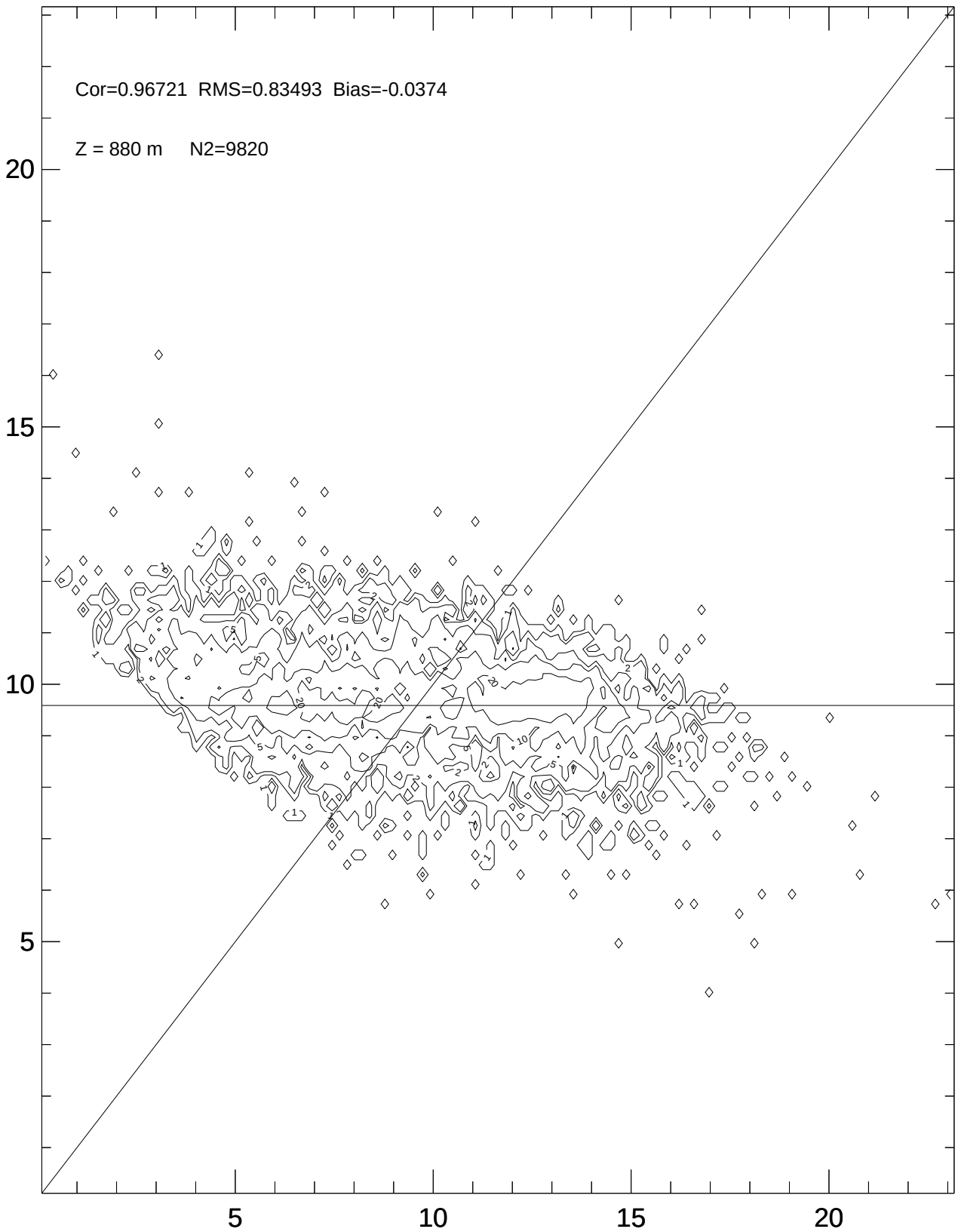

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20

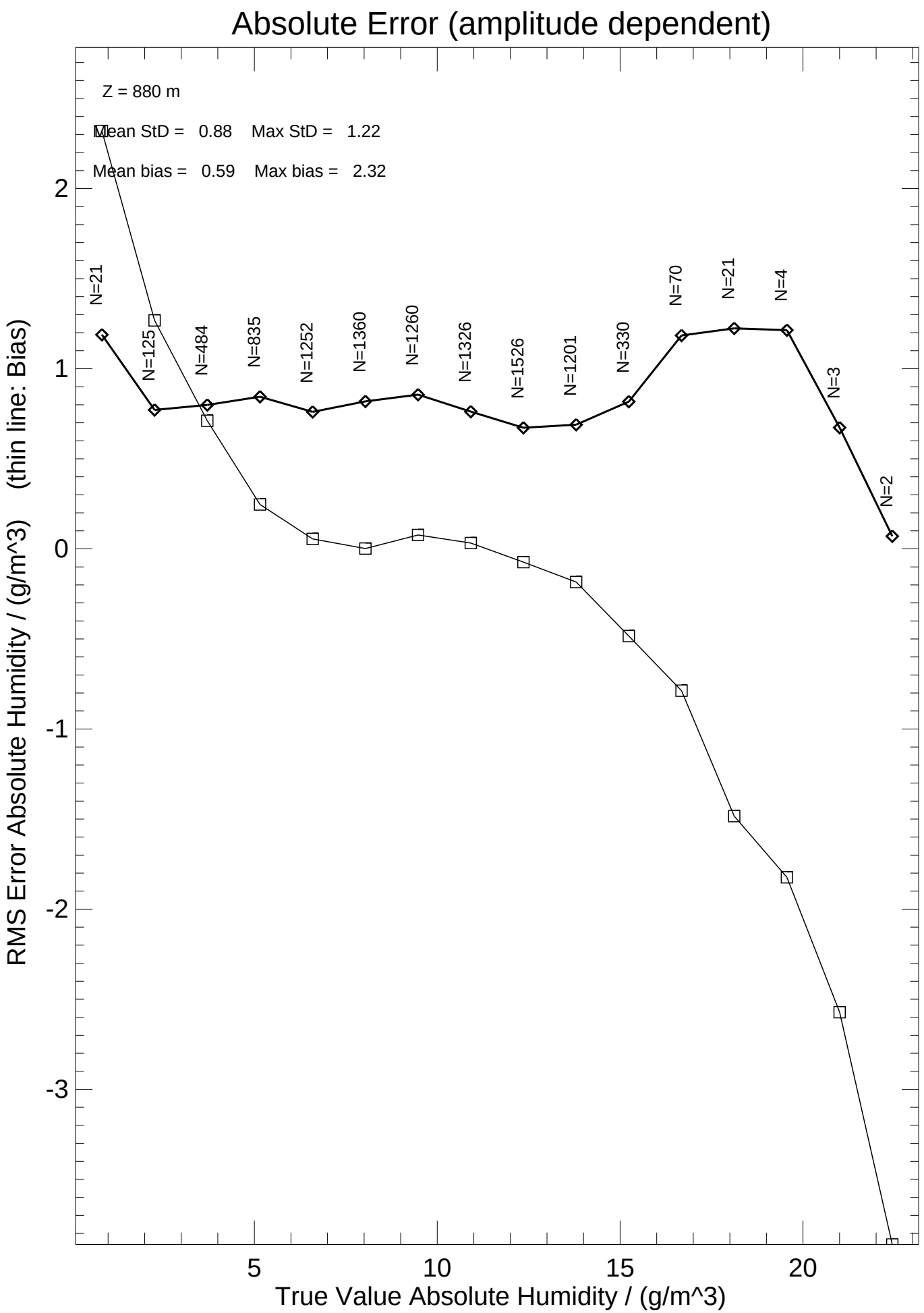

Cor=0.96674 RMS=0.85057 Bias=-0.0383
Z = 840 m N2=9820
20
15
10
5
5
10
15
20

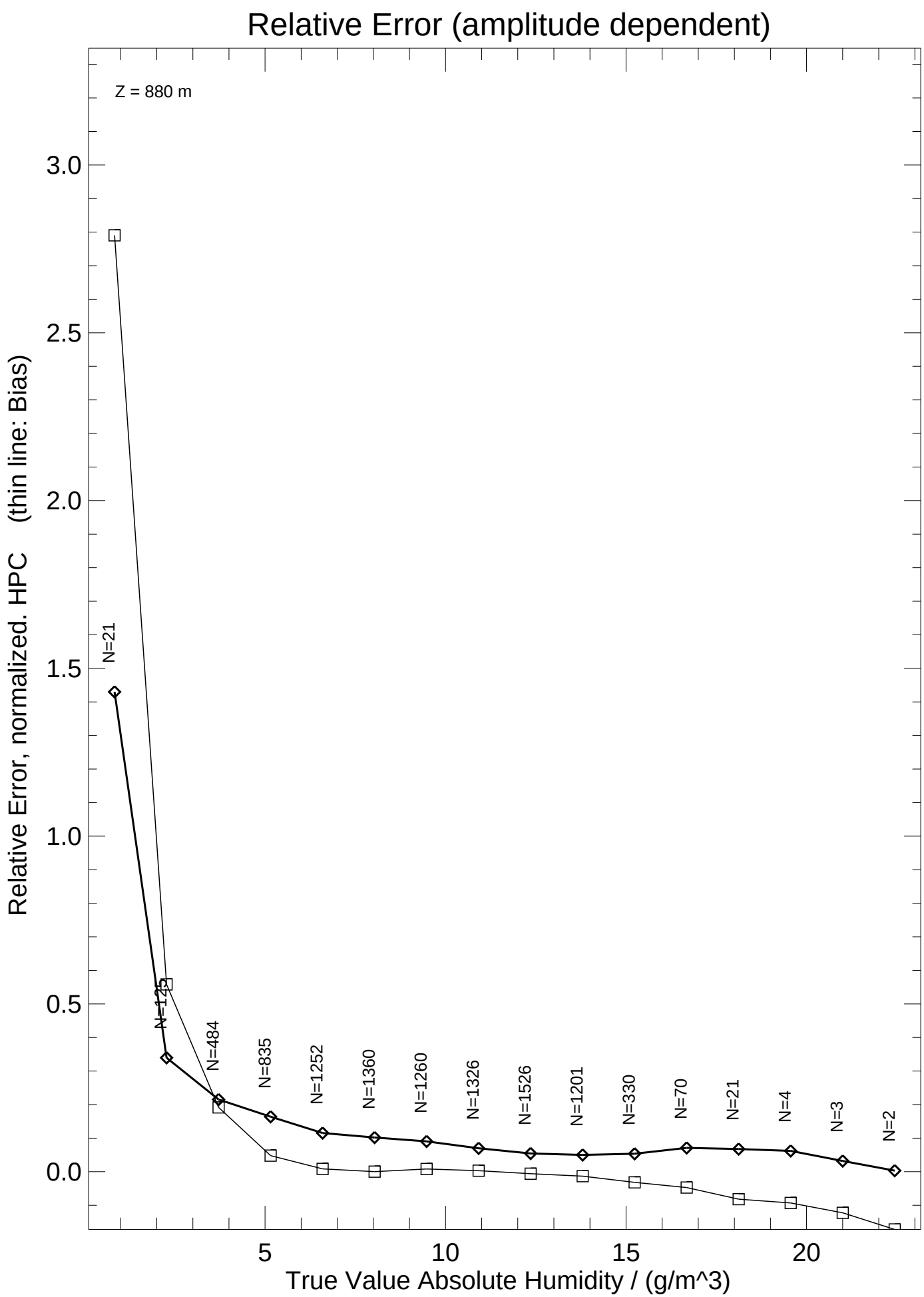

Absolute Error (amplitude dependent)
Z = 840 m
Mean StD = 0.90 Max StD = 1.32
Mean bias = 0.62 Max bias = 2.23
N=26
N=134
N=503
N=864
N=1276
N=1364
N=1279
N=1329
N=1561
N=1107
N=293
N=56
N=20
N=4
N=2
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
1
0
-1
-2
-3
-4
5
10
15
20

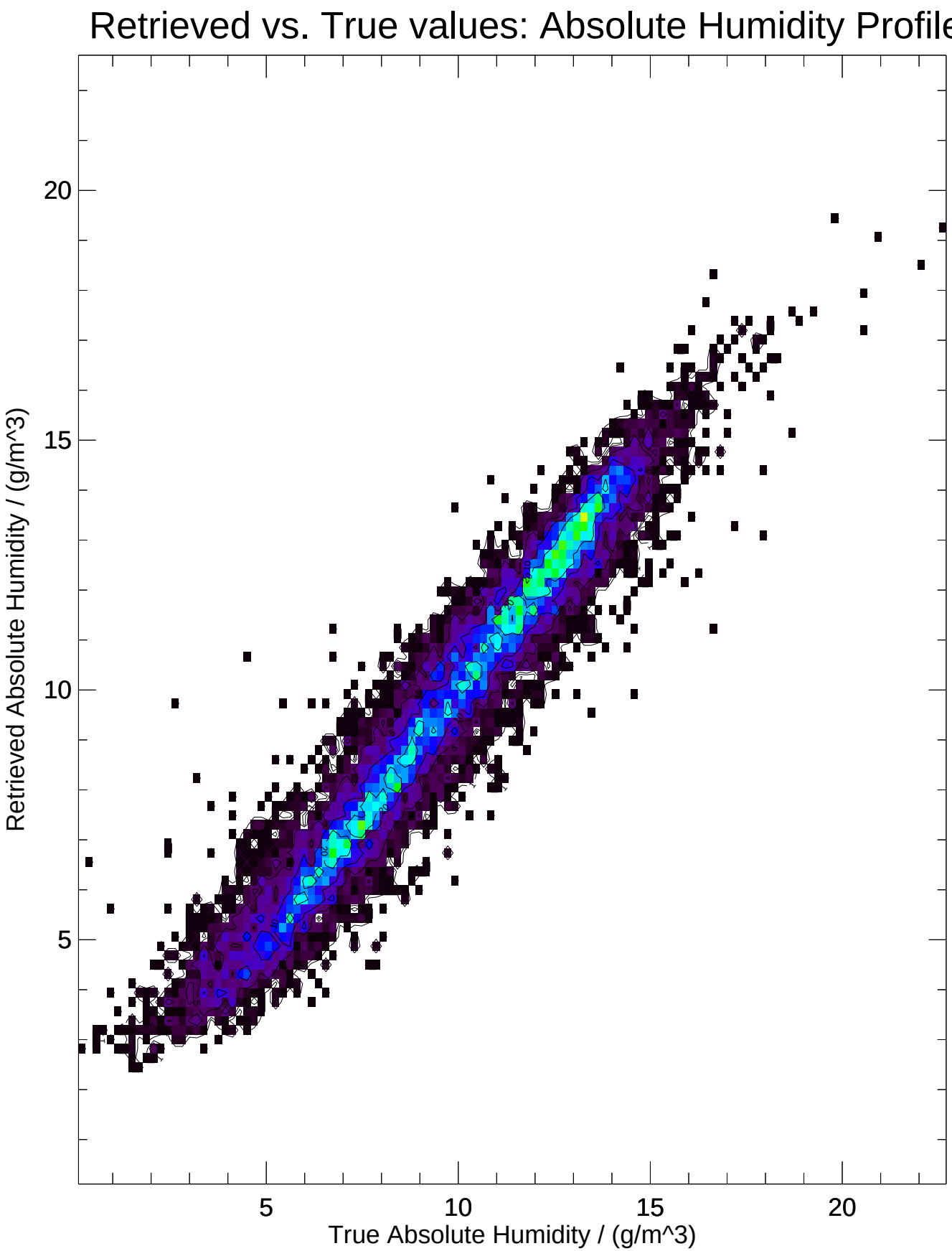

Relative Error (amplitude dependent)
Z = 840 m
Relative Error, normalized. HPC (thin line: Bias)
2.5
2.0
1.5
1.0
0.5
0.0
5
10
15
20
True Value Absolute Humidity / (g/m^3)
N=26
N=134
N=503
N=864
N=1276
N=1364
N=1279
N=1329
N=1561
N=1107
N=293
N=56
N=20
N=4
N=2
N=2

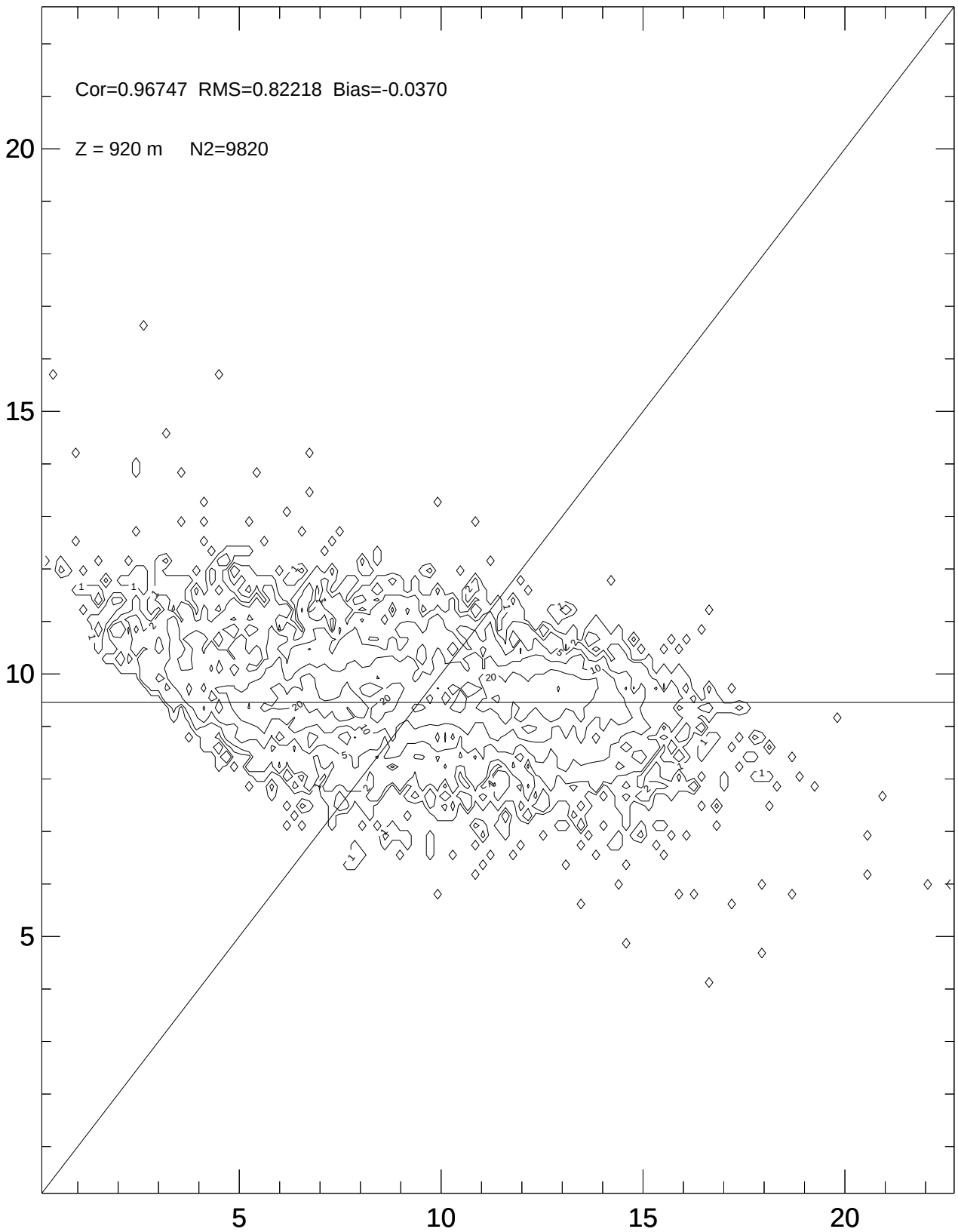

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20

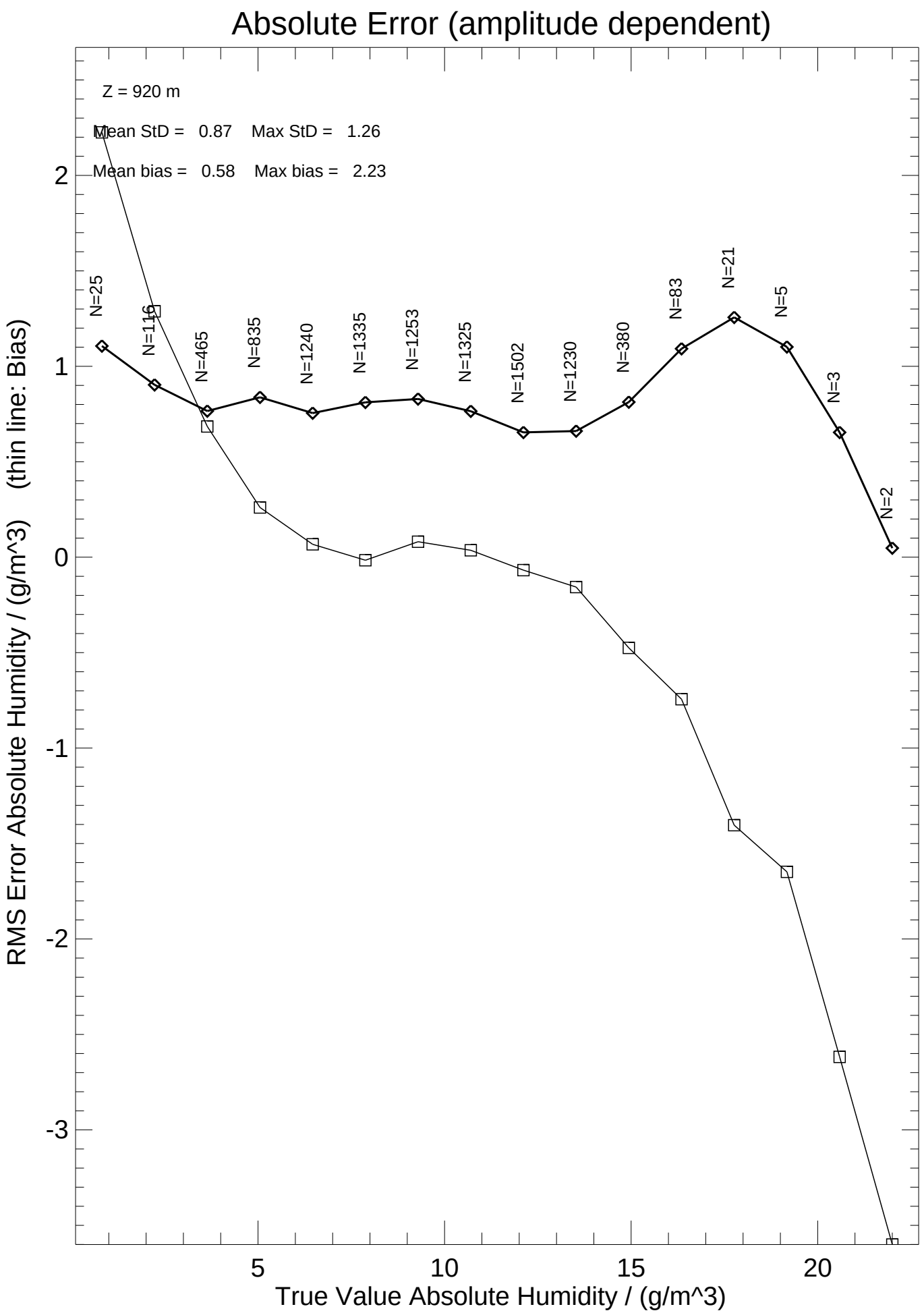

Cor=0.96721 RMS=0.83493 Bias=-0.0374
Z = 880 m N2=9820
20
15
10
5
5
10
15
20

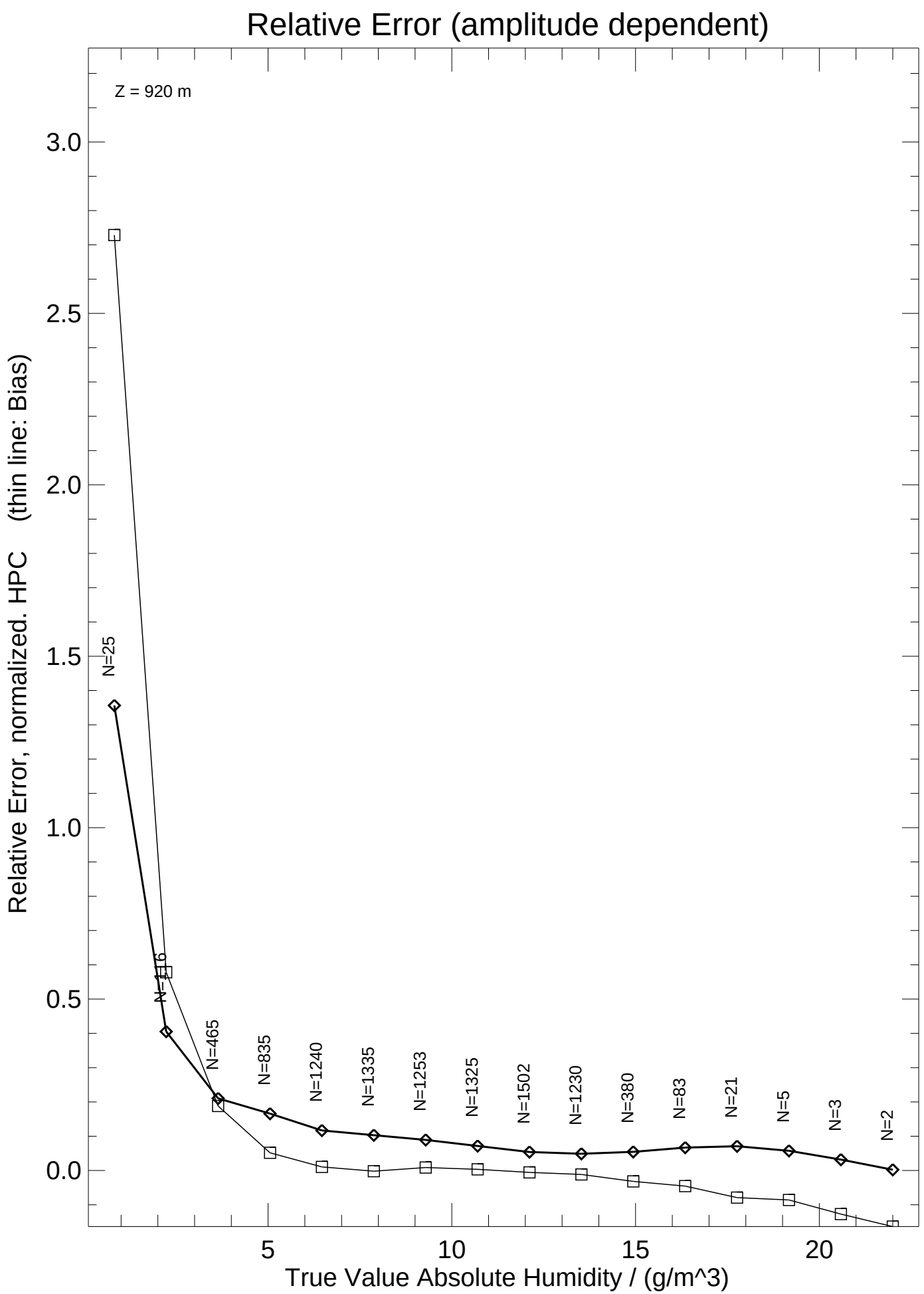

Absolute Error (amplitude dependent)
Z = 880 m
Mean StD = 0.88 Max StD = 1.22
Mean bias = 0.59 Max bias = 2.32
N=21
N=125
N=484
N=835
N=1252
N=1360
N=1260
N=1326
N=1526
N=1201
N=330
N=70
N=21
N=4
N=3
N=2
2
1
0
-1
-2
-3
5
10
15
20
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

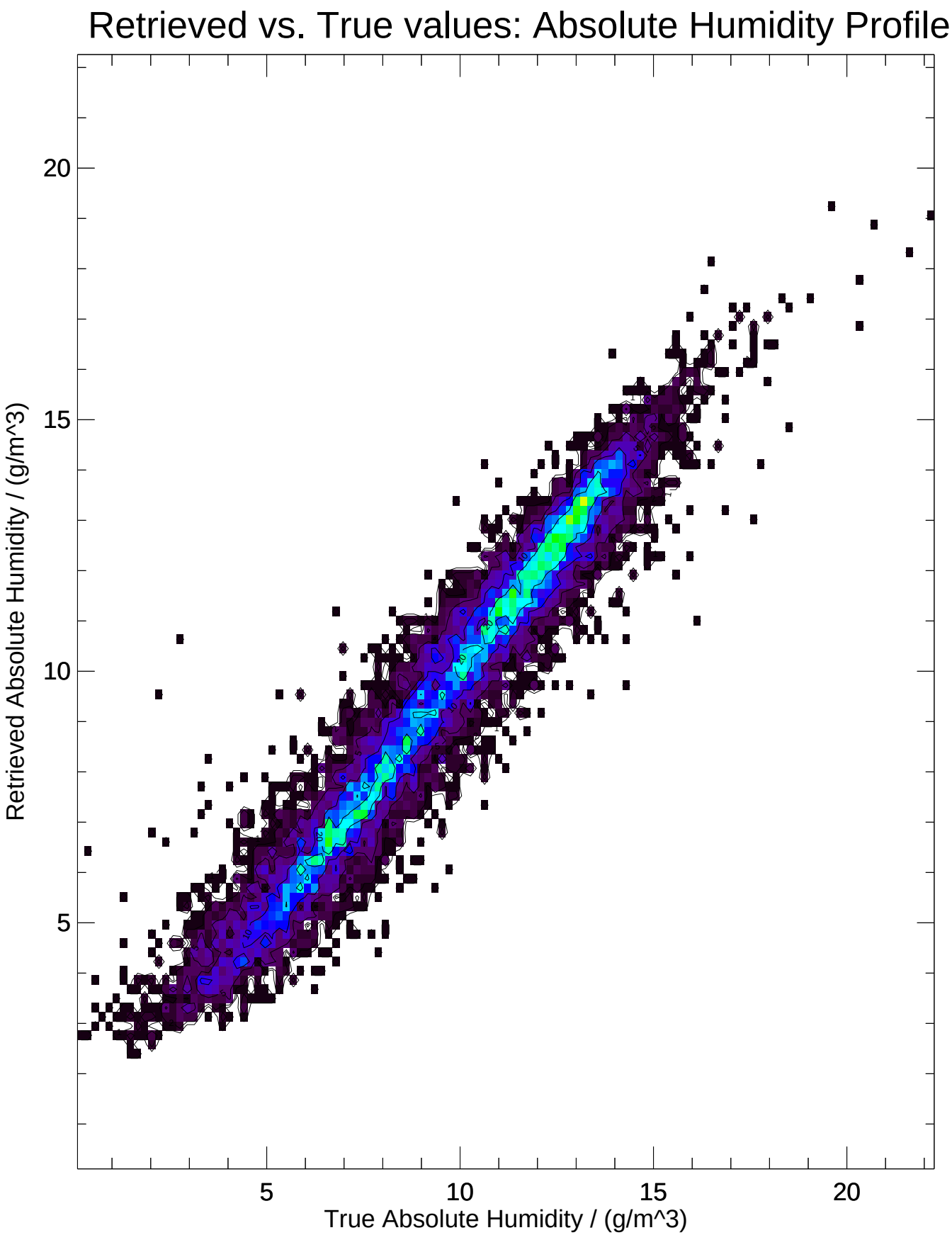

Relative Error (amplitude dependent)
Z = 880 m
Relative Error, normalized. HPC (thin line: Bias)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
5
10
15
20
True Value Absolute Humidity / (g/m^3)
N=21
N=125
N=484
N=835
N=1252
N=1360
N=1260
N=1326
N=1526
N=1201
N=330
N=70
N=21
N=4
N=3
N=2

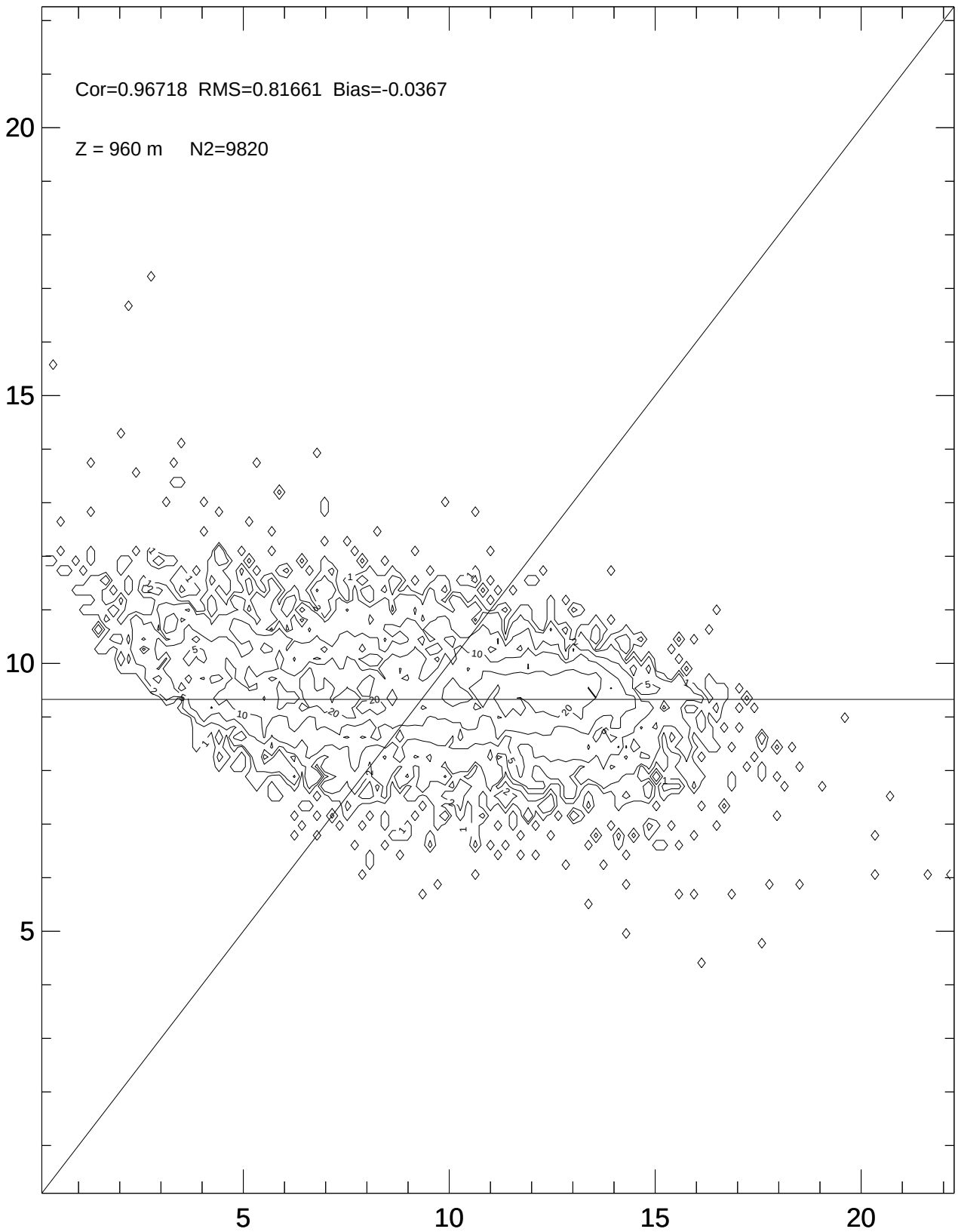

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
5
10
15
20

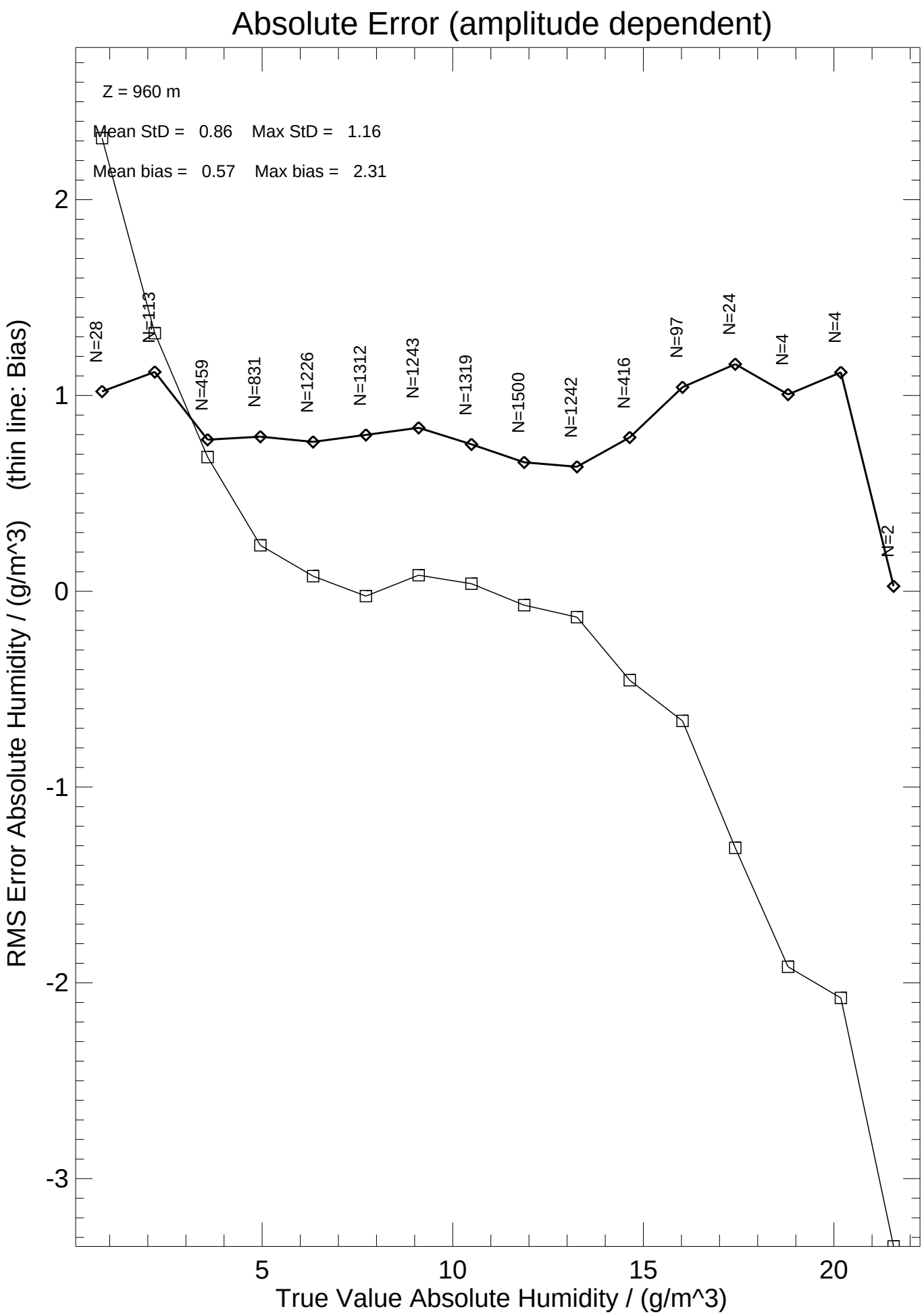

Cor=0.96747 RMS=0.82218 Bias=-0.0370
Z = 920 m N2=9820
20
15
10
5
5
10
15
20

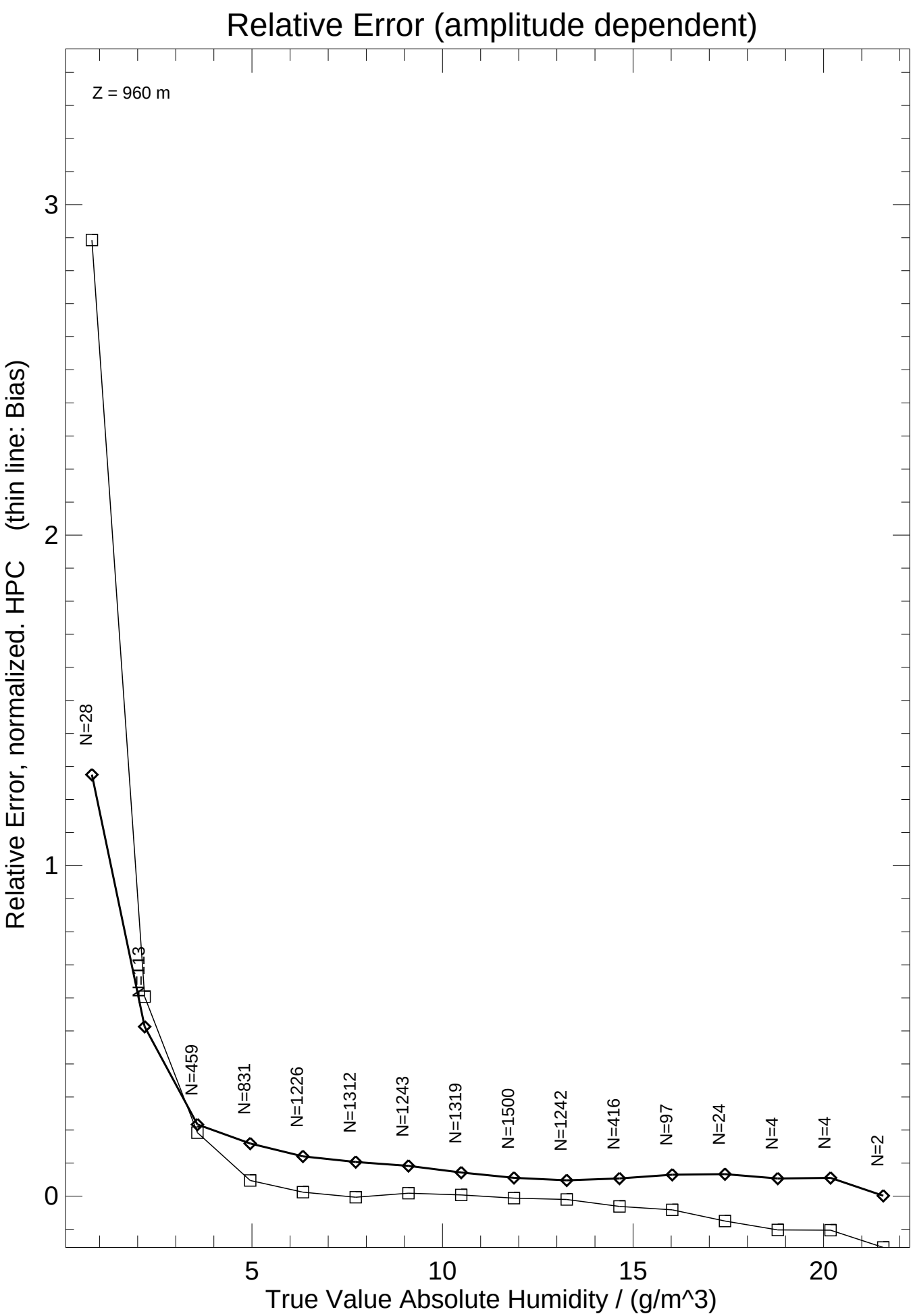

Absolute Error (amplitude dependent)
Z = 920 m
Mean StD = 0.87 Max StD = 1.26
Mean bias = 0.58 Max bias = 2.23
N=25
N=116
N=465
N=835
N=1240
N=1335
N=1253
N=1325
N=1502
N=1230
N=380
N=83
N=21
N=5
N=3
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
1
0
-1
-2
-3
5
10
15
20

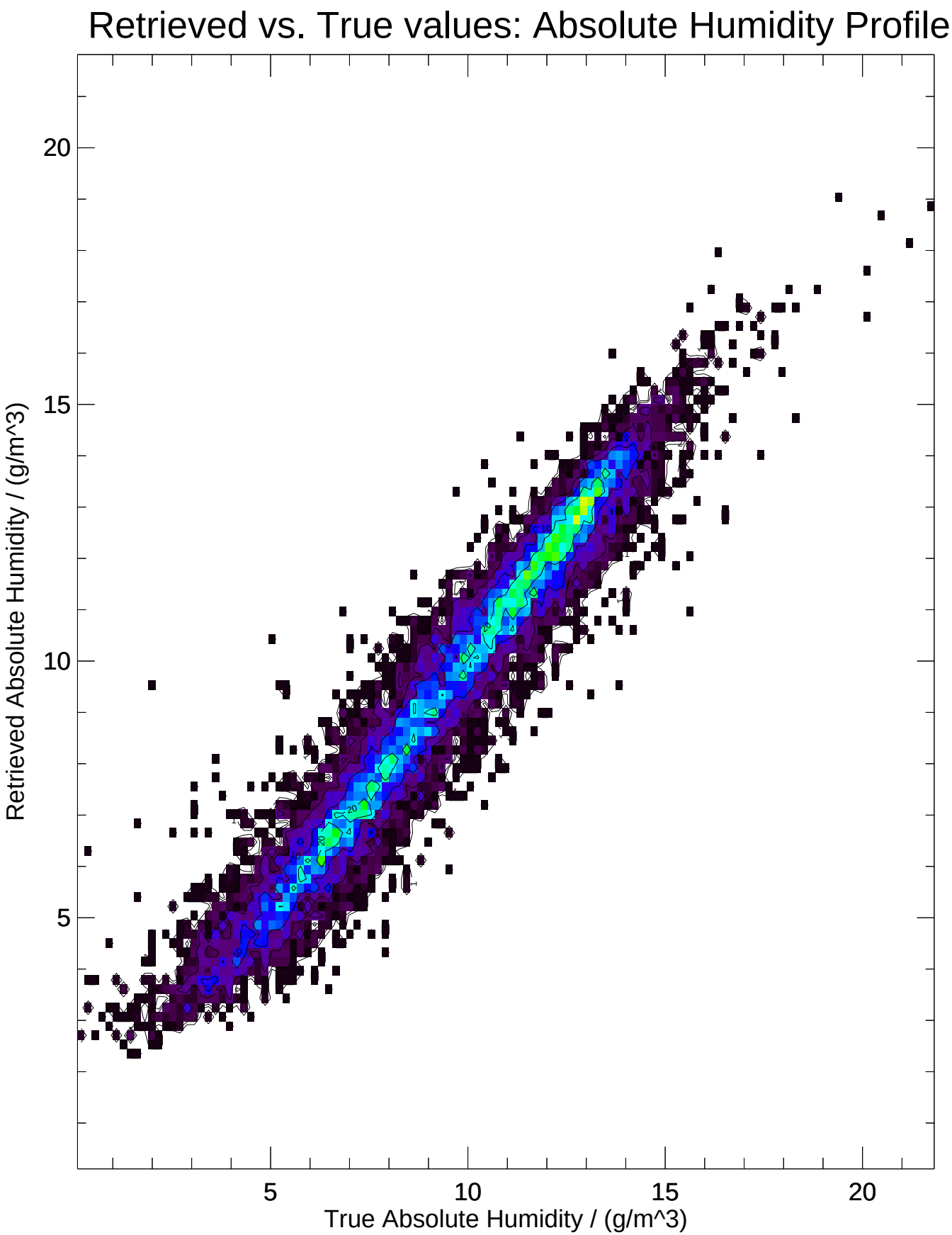

Relative Error (amplitude dependent)
Z = 920 m
Relative Error, normalized. HPC (thin line: Bias)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
5
10
15
20
True Value Absolute Humidity / (g/m^3)
N=25
N=116
N=465
N=835
N=1240
N=1335
N=1253
N=1325
N=1502
N=1230
N=380
N=83
N=21
N=5
N=3
N=2

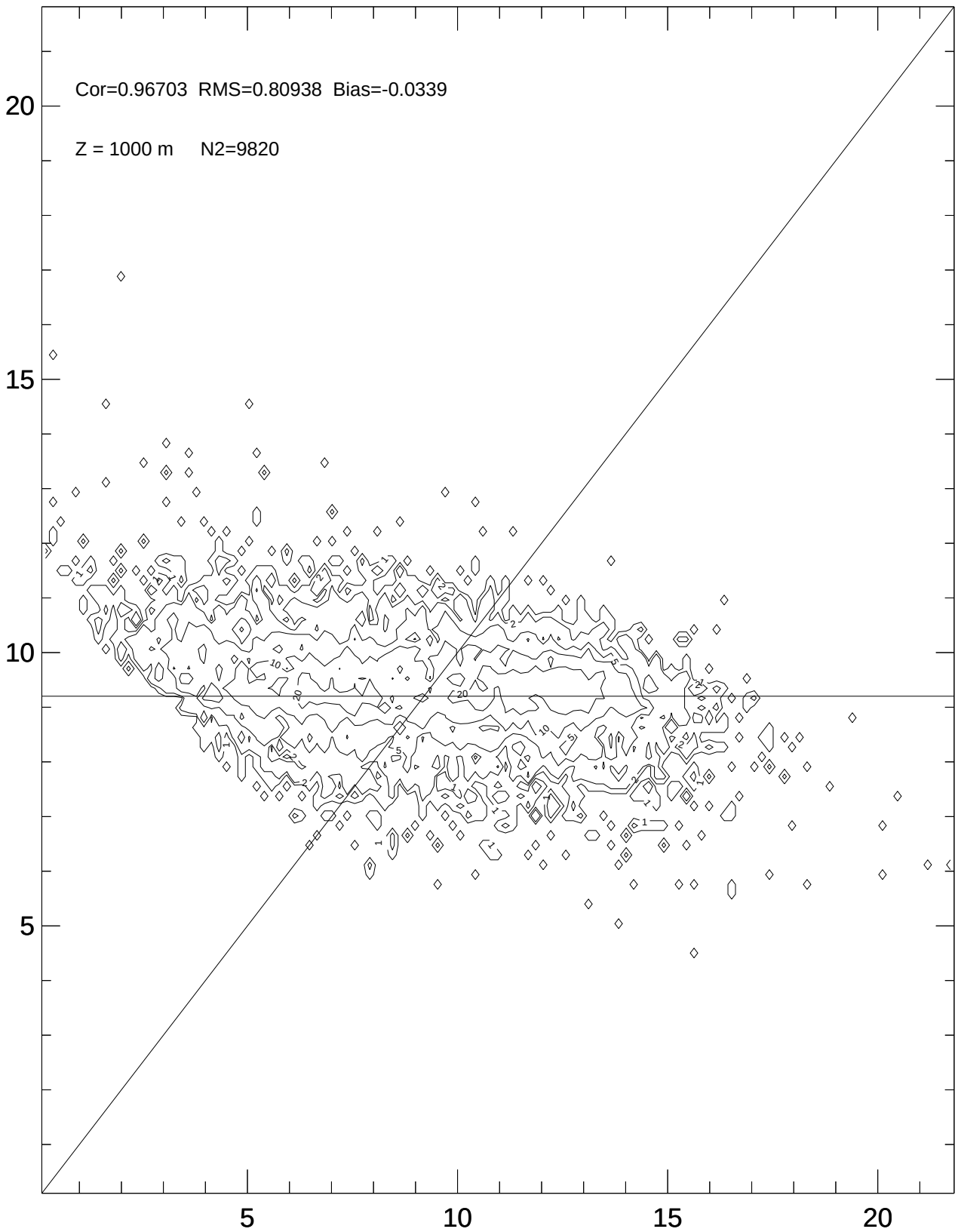

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
5
10
15
20

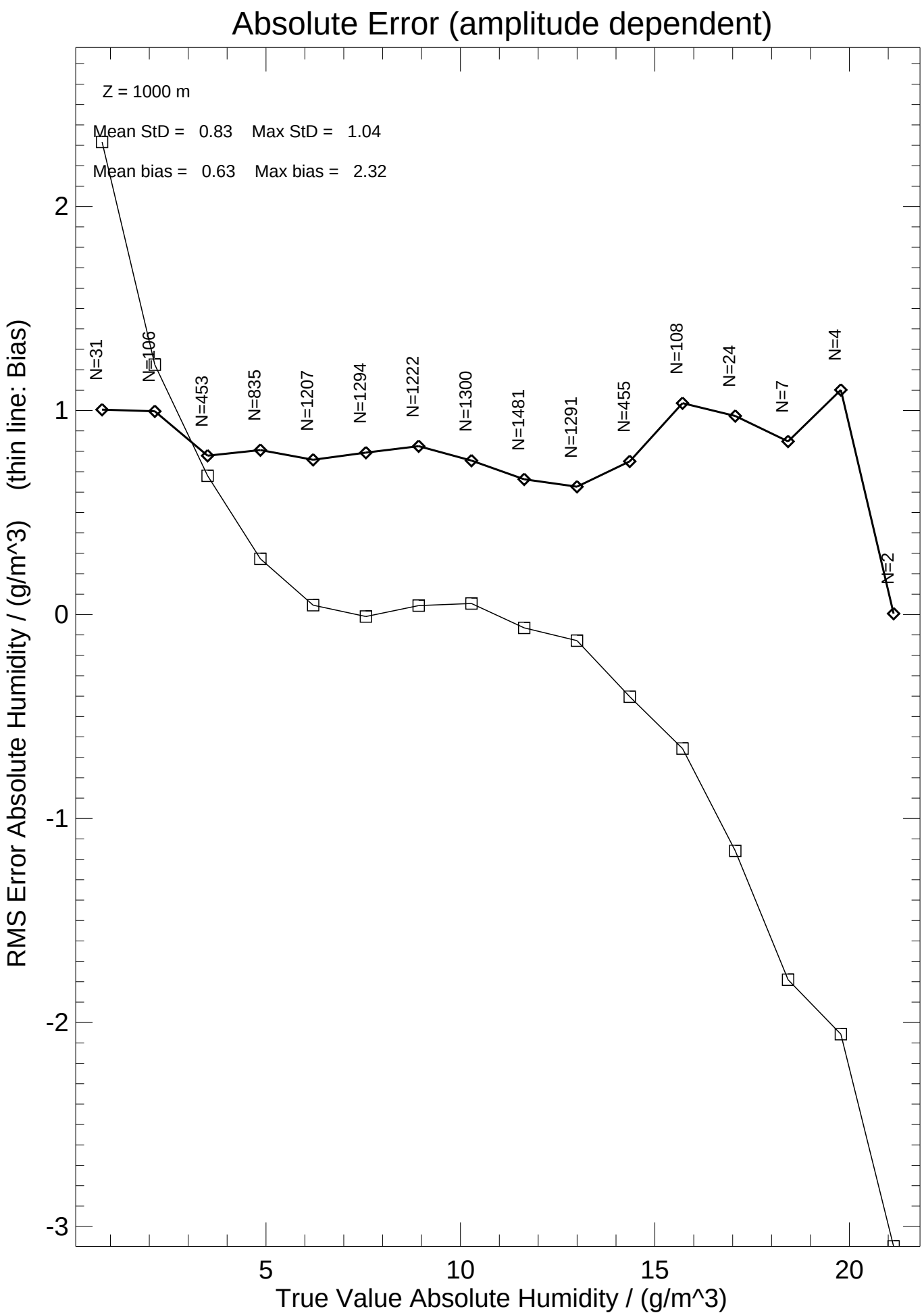

Cor=0.96718 RMS=0.81661 Bias=-0.0367
Z = 960 m N2=9820
20
15
10
5
5
10
15
20

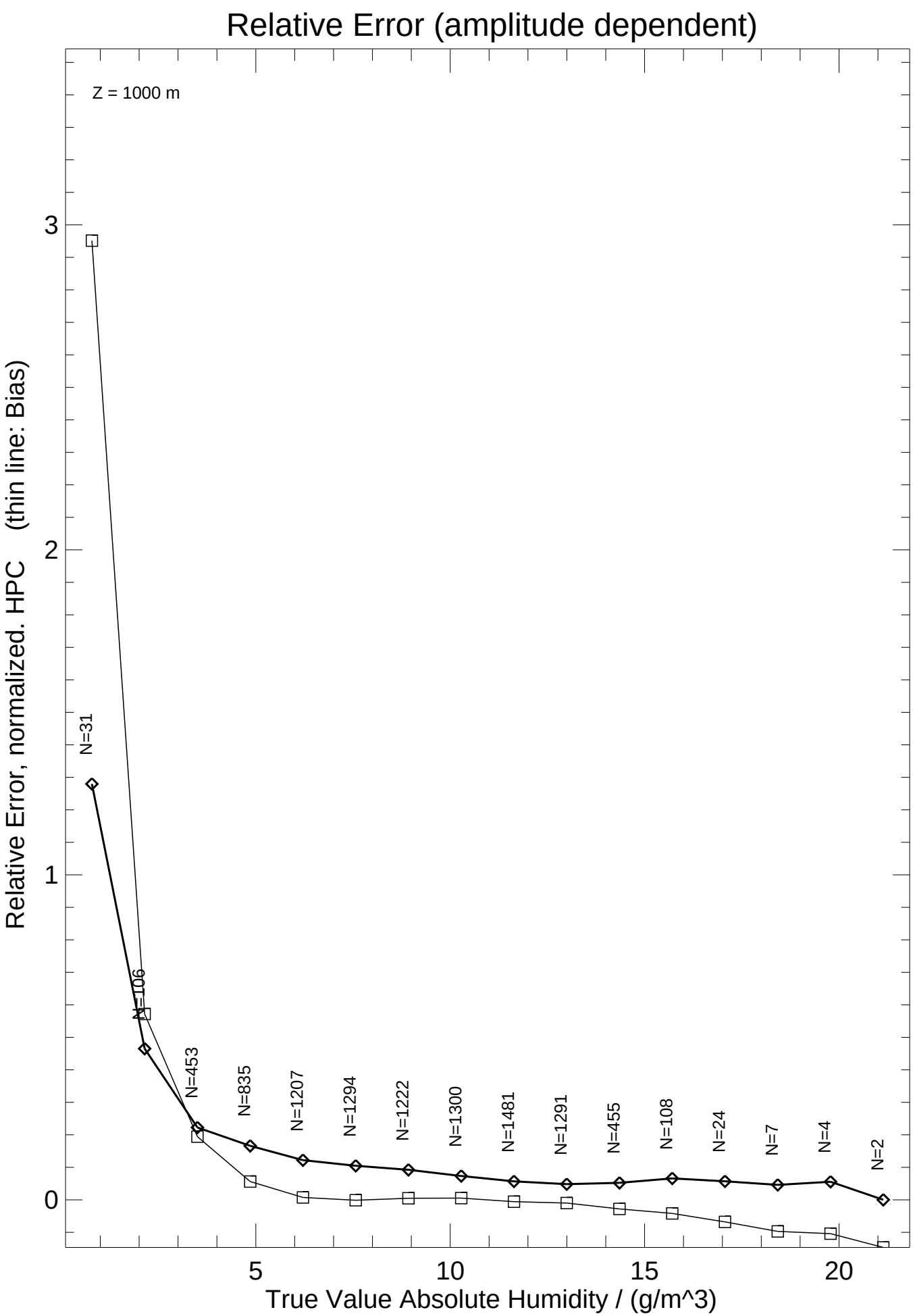

Absolute Error (amplitude dependent)
Z = 960 m
Mean StD = 0.86 Max StD = 1.16
Mean bias = 0.57 Max bias = 2.31
N=28
N=113
N=459
N=831
N=1226
N=1312
N=1243
N=1319
N=1500
N=1242
N=416
N=97
N=24
N=4
N=4
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
1
0
-1
-2
-3
5
10
15
20

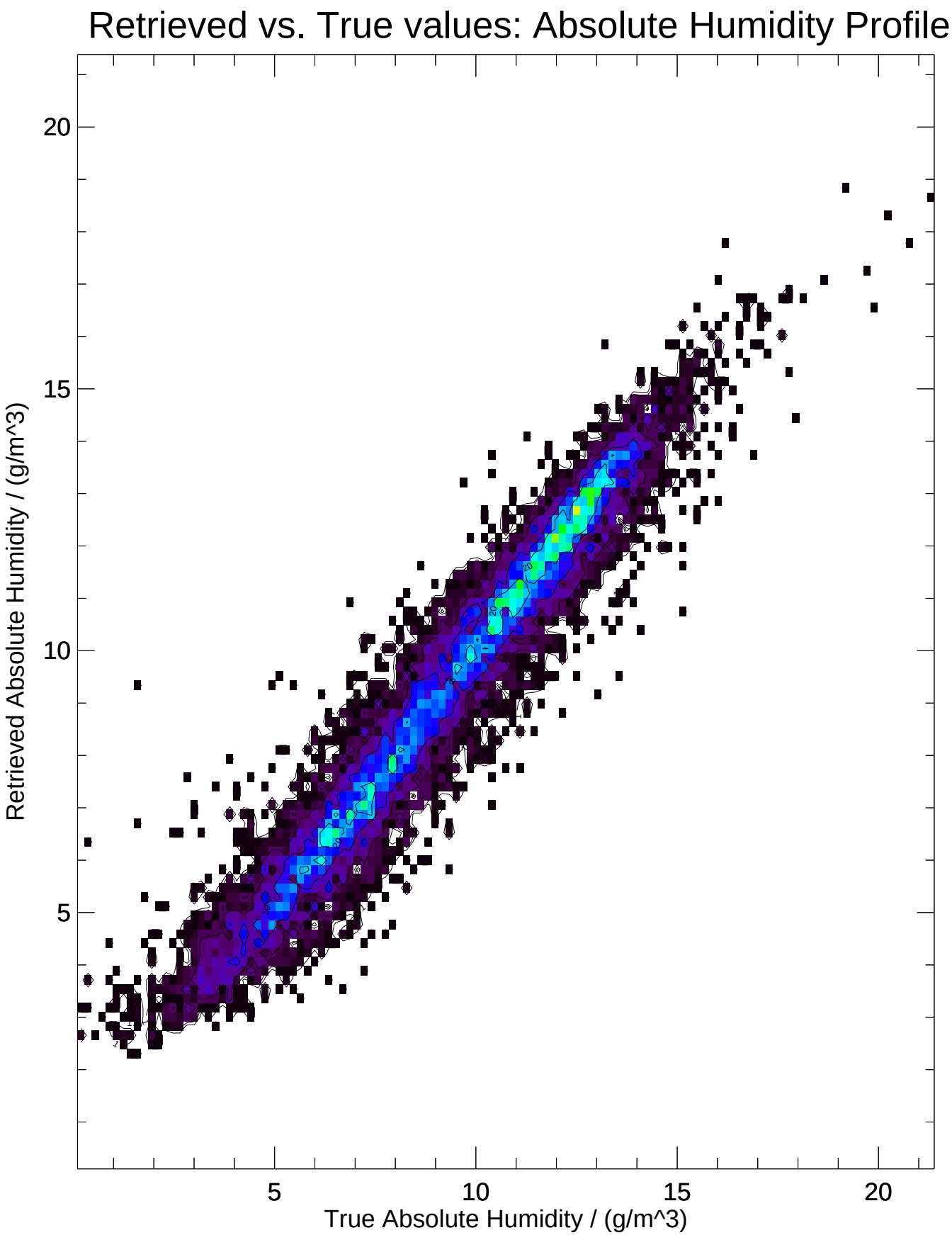

Relative Error (amplitude dependent)
Z = 960 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
5
10
15
20
N=28
N=113
N=459
N=831
N=1226
N=1312
N=1243
N=1319
N=1500
N=1242
N=416
N=97
N=24
N=4
N=4
N=2

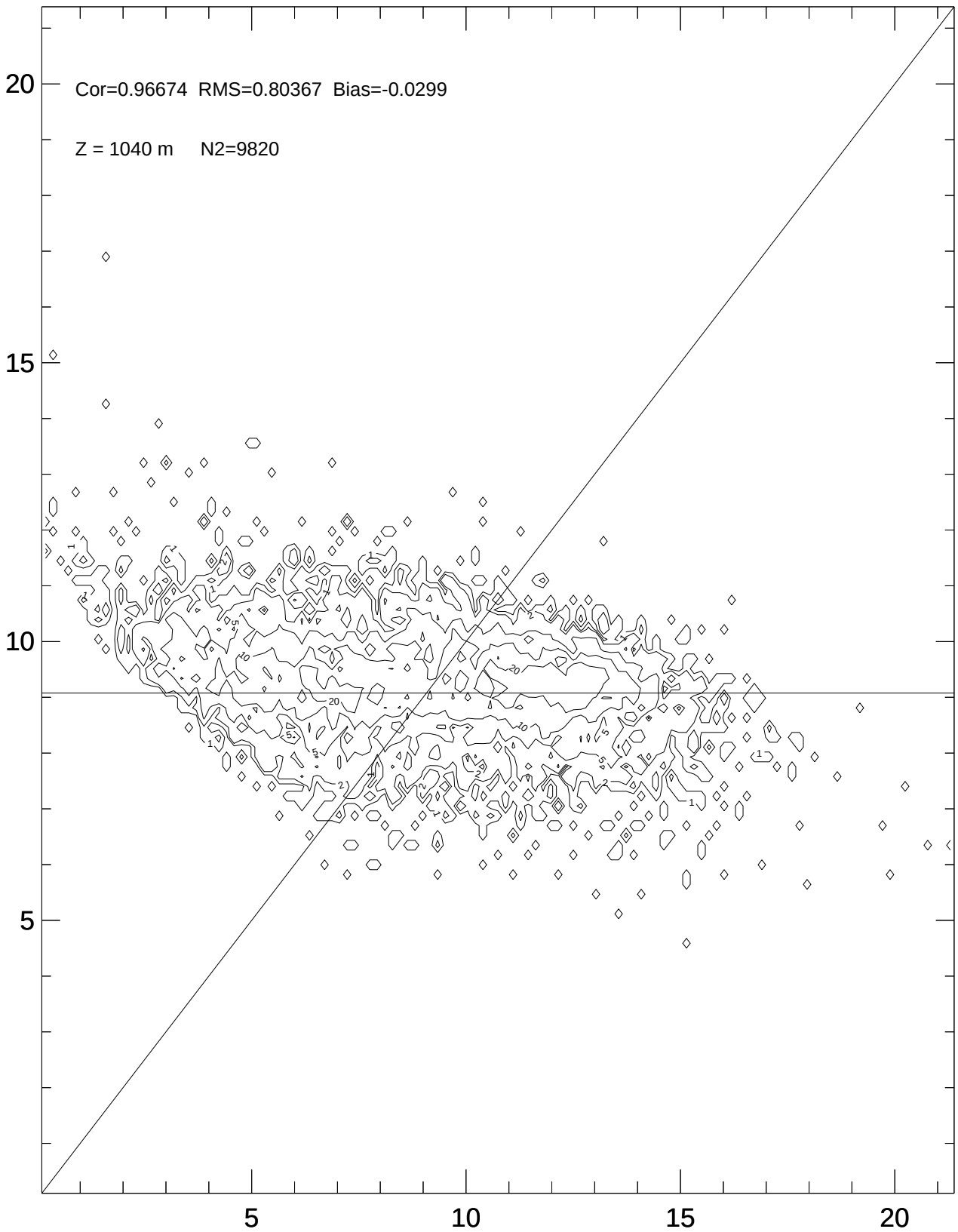

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20

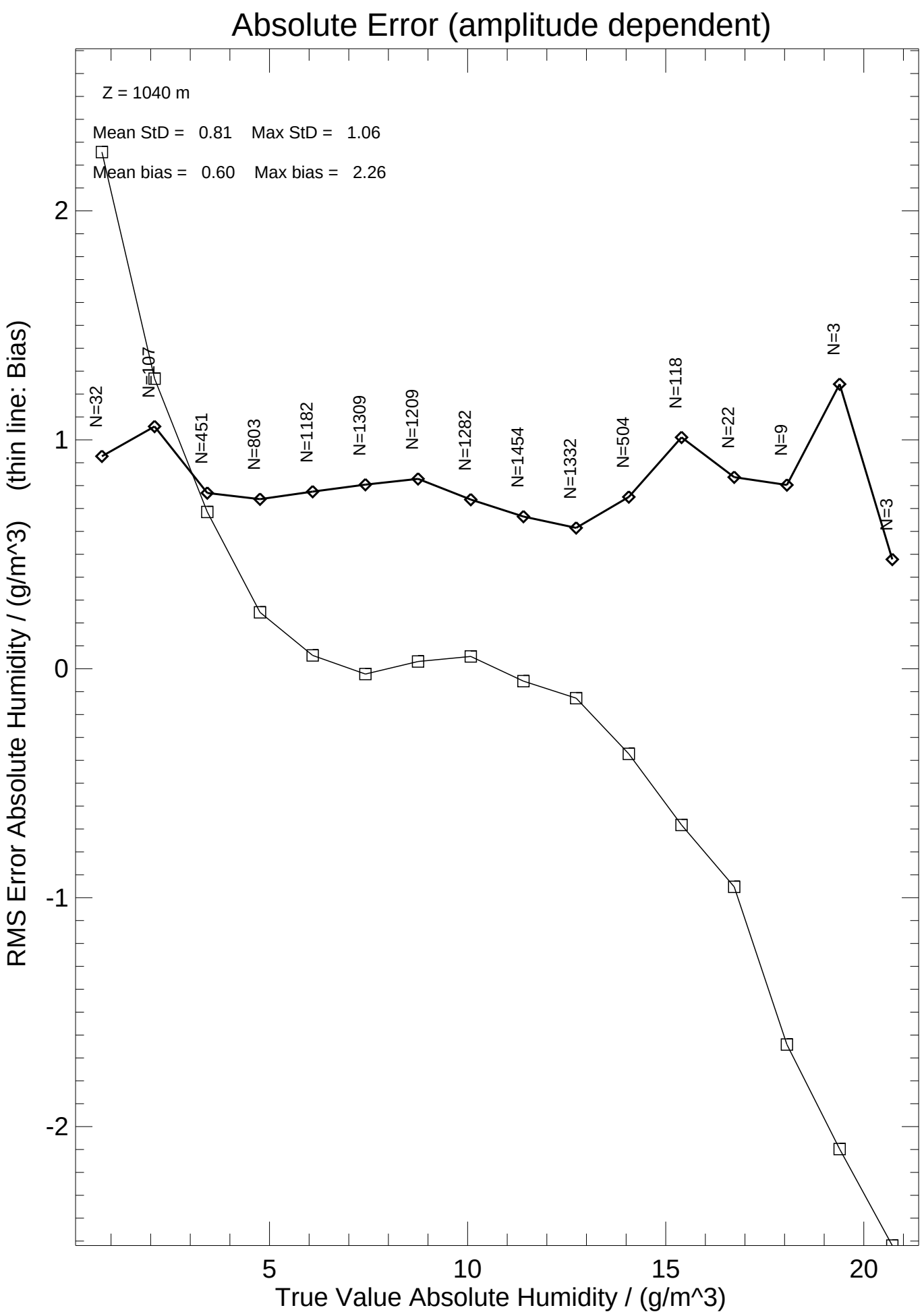

Cor=0.96703 RMS=0.80938 Bias=-0.0339
Z = 1000 m N2=9820
20
15
10
5
5
10
15
20

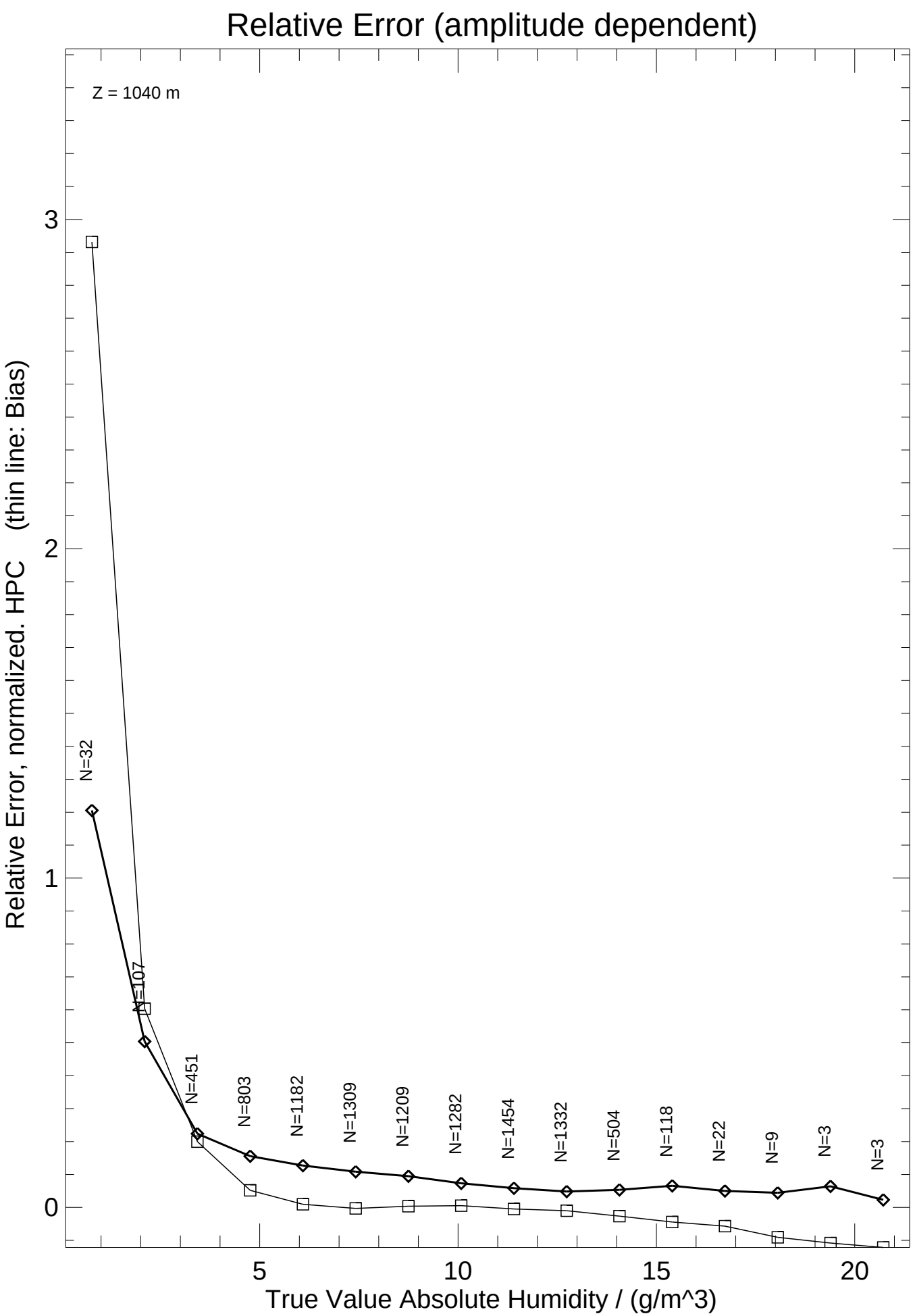

Absolute Error (amplitude dependent)
Z = 1000 m
Mean StD = 0.83 Max StD = 1.04
Mean bias = 0.63 Max bias = 2.32
N=31
N=106
N=453
N=835
N=1207
N=1294
N=1222
N=1300
N=1481
N=1291
N=455
N=108
N=24
N=7
N=4
N=2
2
1
0
-1
-2
-3
5
10
15
20
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

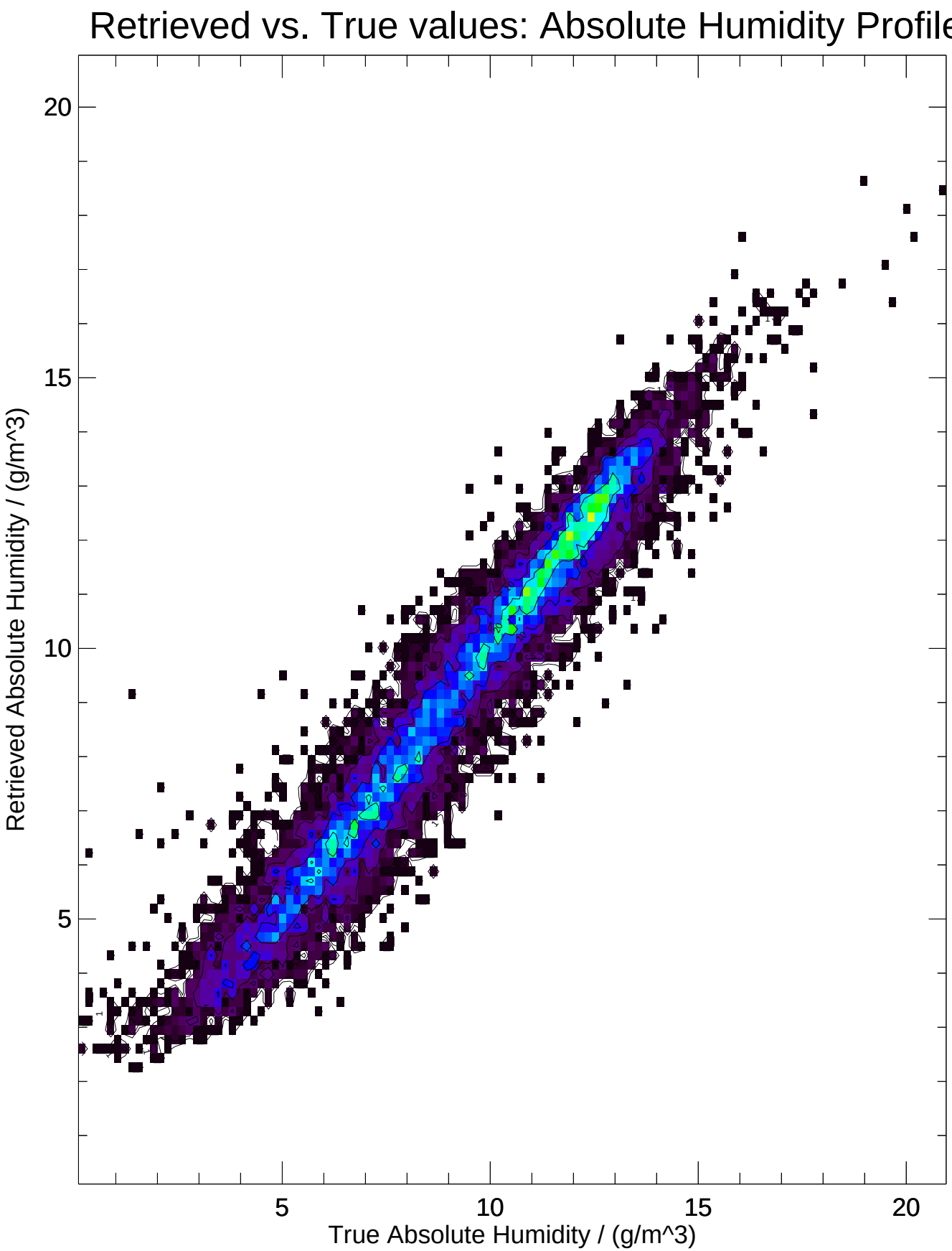

Relative Error (amplitude dependent)
Z = 1000 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
5
10
15
20
N=31
N=106
N=453
N=835
N=1207
N=1294
N=1222
N=1300
N=1481
N=1291
N=455
N=108
N=24
N=7
N=4
N=2

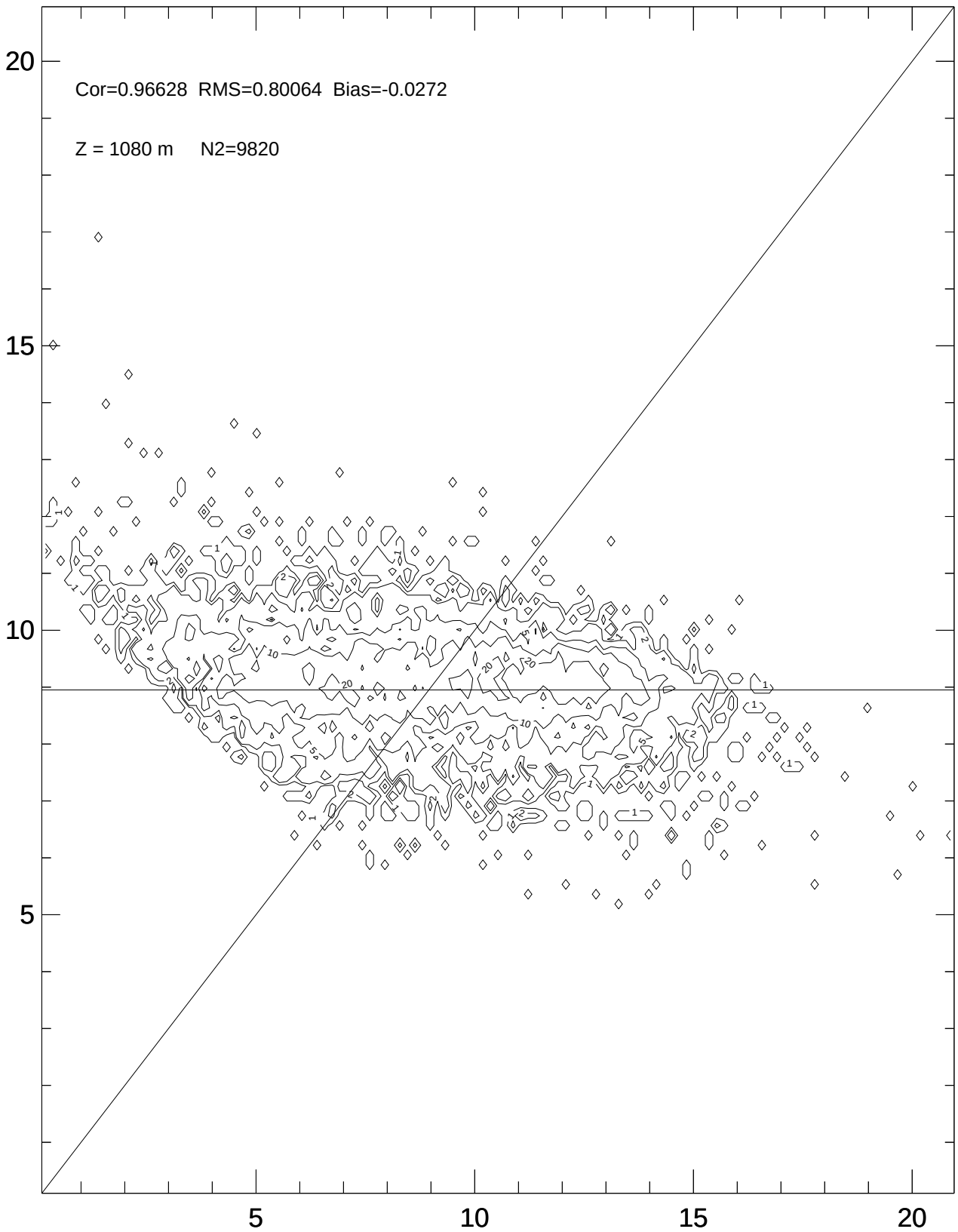

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20

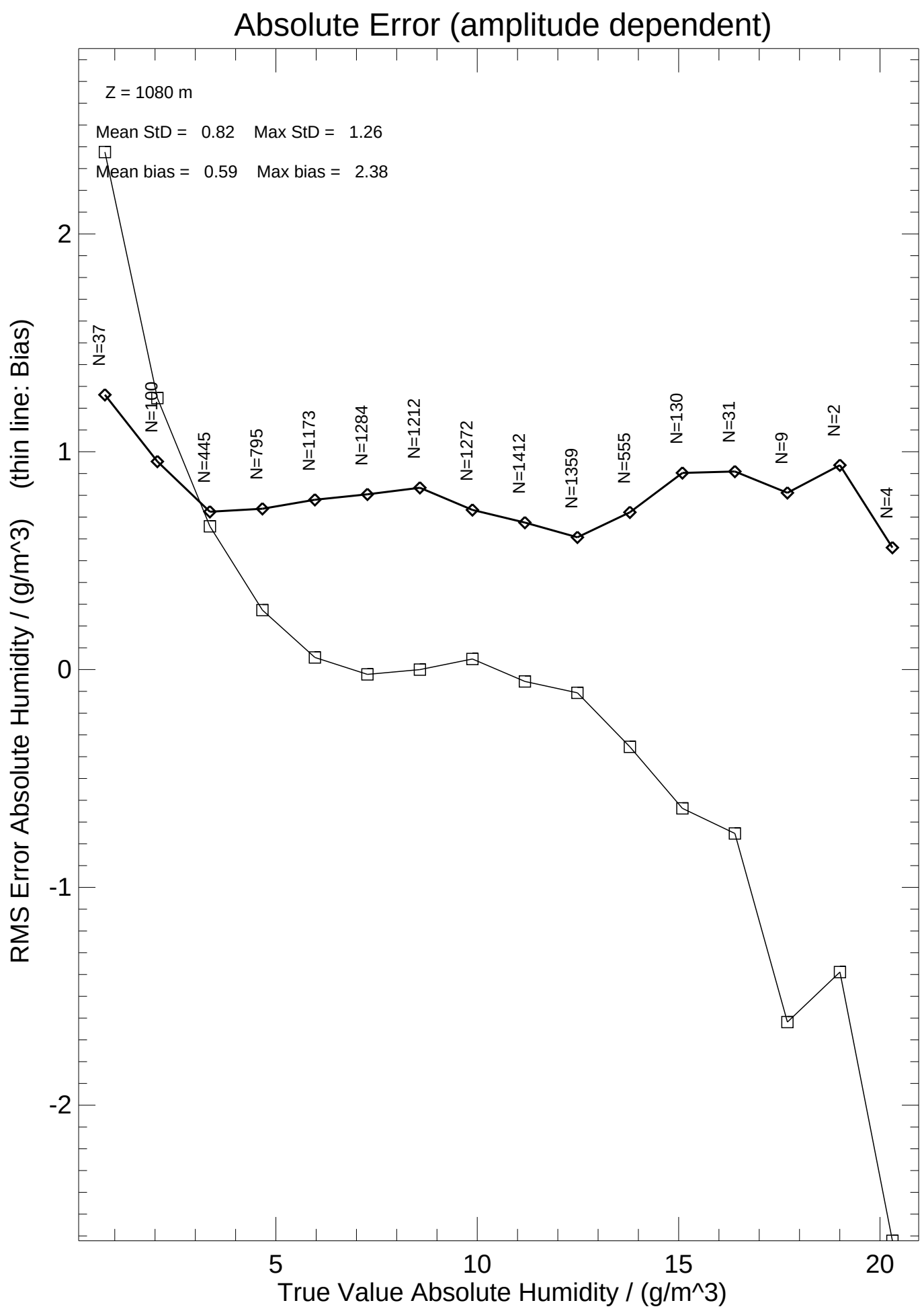

Cor=0.96674 RMS=0.80367 Bias=-0.0299
Z = 1040 m N2=9820
20
15
10
5
5
10
15
20

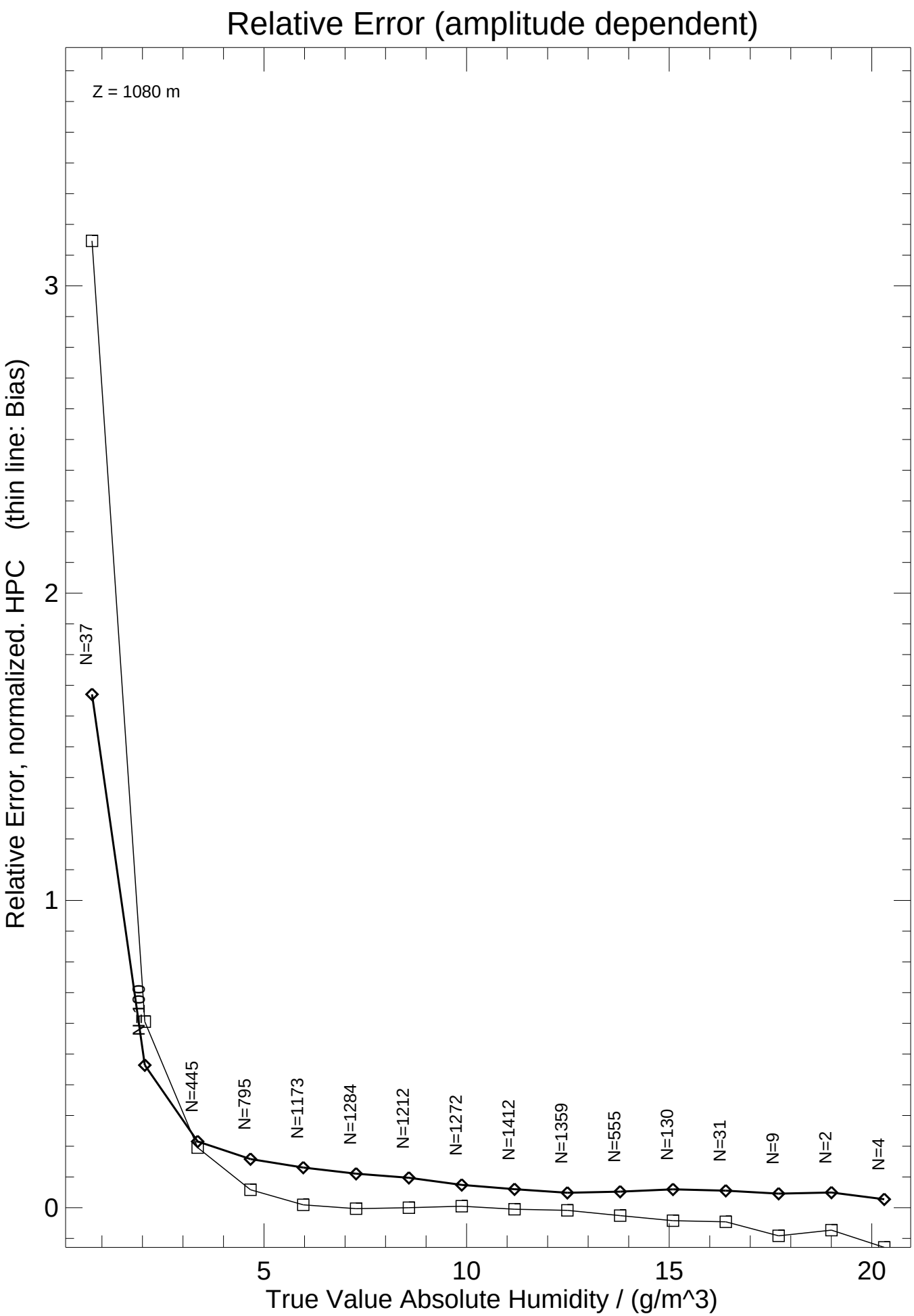

Absolute Error (amplitude dependent)
Z = 1040 m
Mean StD = 0.81 Max StD = 1.06
Mean bias = 0.60 Max bias = 2.26
N=32
N=107
N=451
N=803
N=1182
N=1309
N=1209
N=1282
N=1454
N=1332
N=504
N=118
N=22
N=9
N=3
N=3
2
1
0
-1
-2
5
10
15
20
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

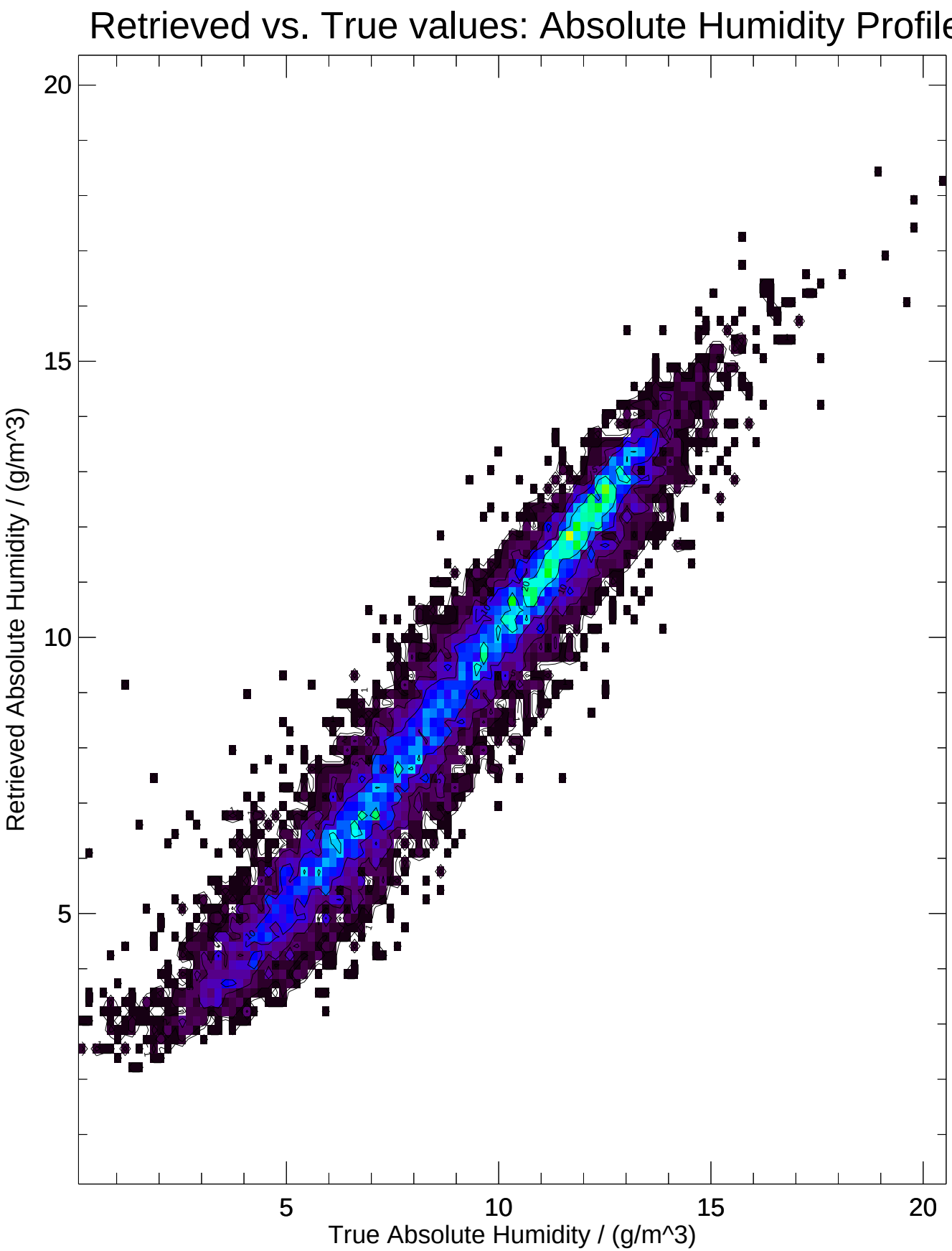

Relative Error (amplitude dependent)
Z = 1040 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
5
10
15
20
N=32
N=107
N=451
N=803
N=1182
N=1309
N=1209
N=1282
N=1454
N=1332
N=504
N=118
N=22
N=9
N=3
N=3

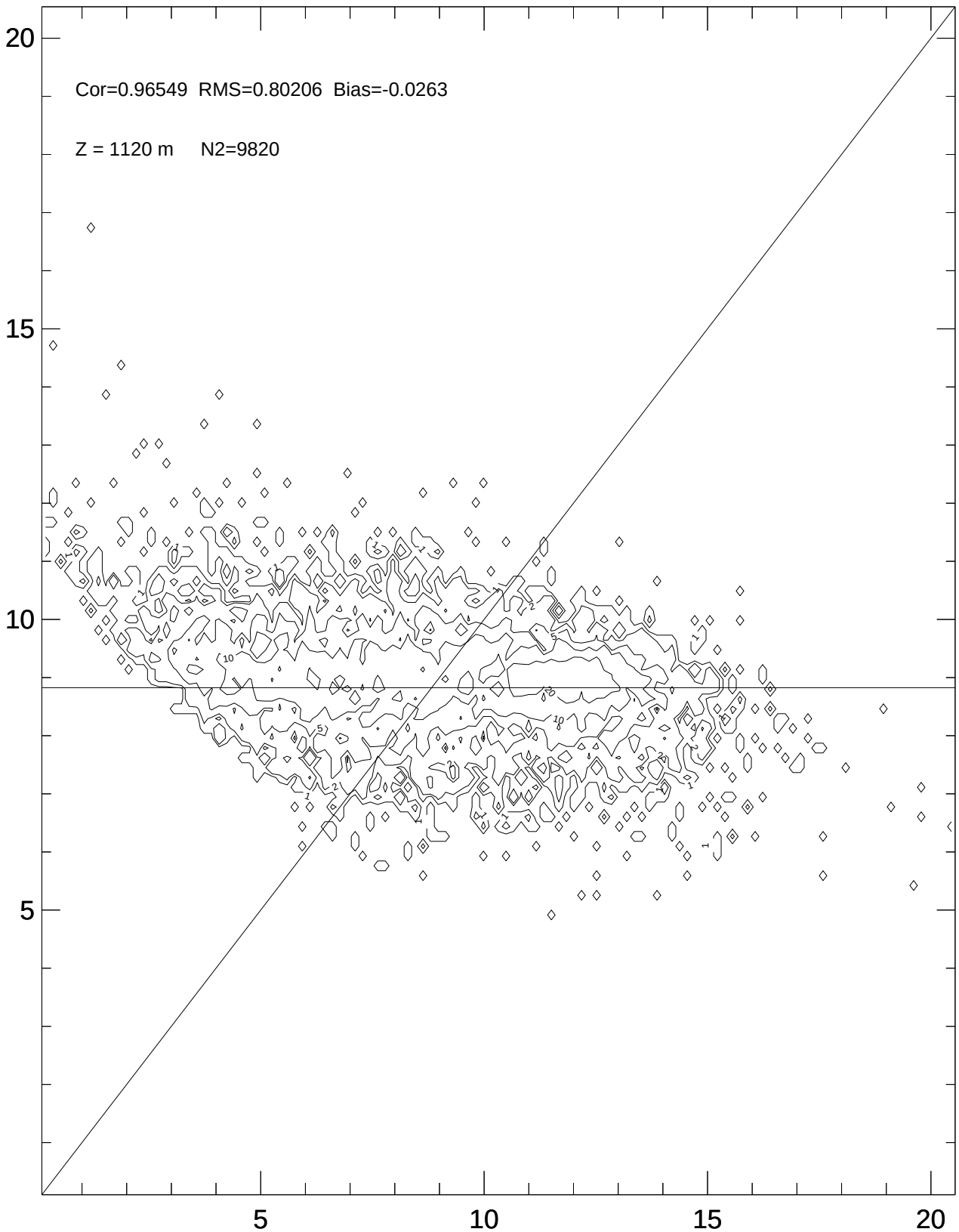

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20
5
10
15
20

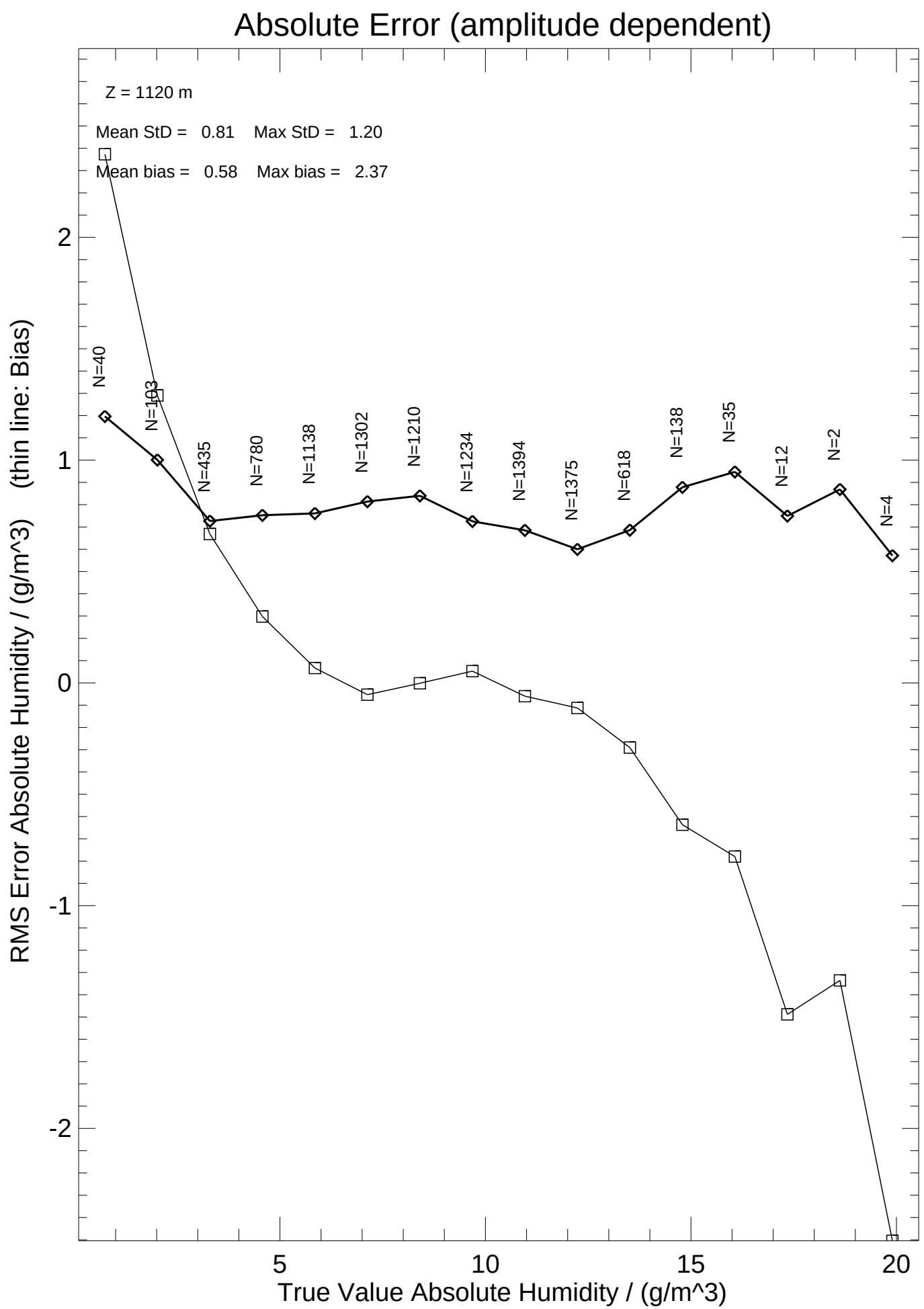

Cor=0.96628 RMS=0.80064 Bias=-0.0272
Z = 1080 m N2=9820
20
15
10
5
5
10
15
20

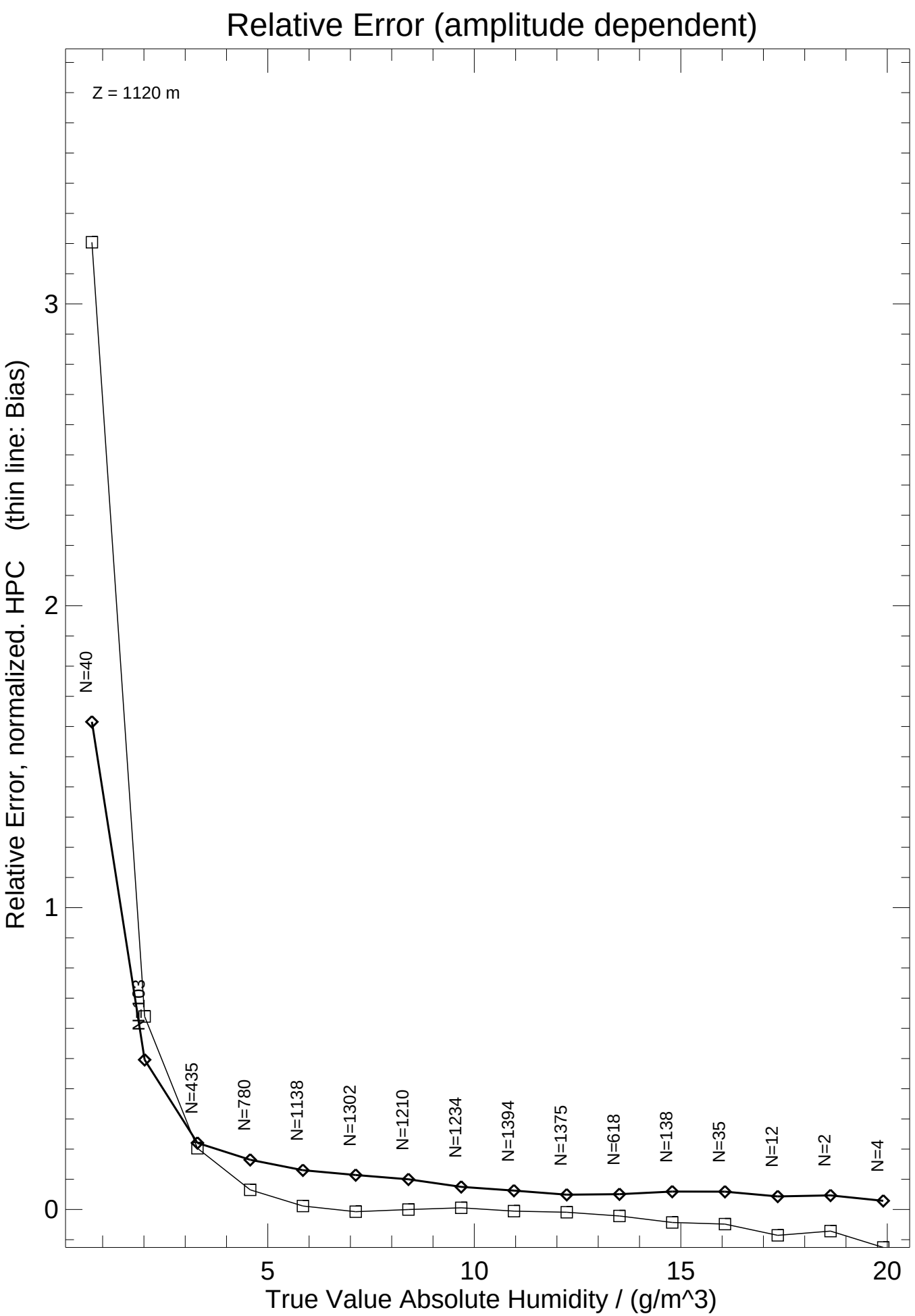

Absolute Error (amplitude dependent)
Z = 1080 m
Mean StD = 0.82 Max StD = 1.26
Mean bias = 0.59 Max bias = 2.38
N=37
N=100
N=445
N=795
N=1173
N=1284
N=1212
N=1272
N=1412
N=1359
N=555
N=130
N=31
N=9
N=2
N=4
2
1
0
-1
-2
5
10
15
20
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

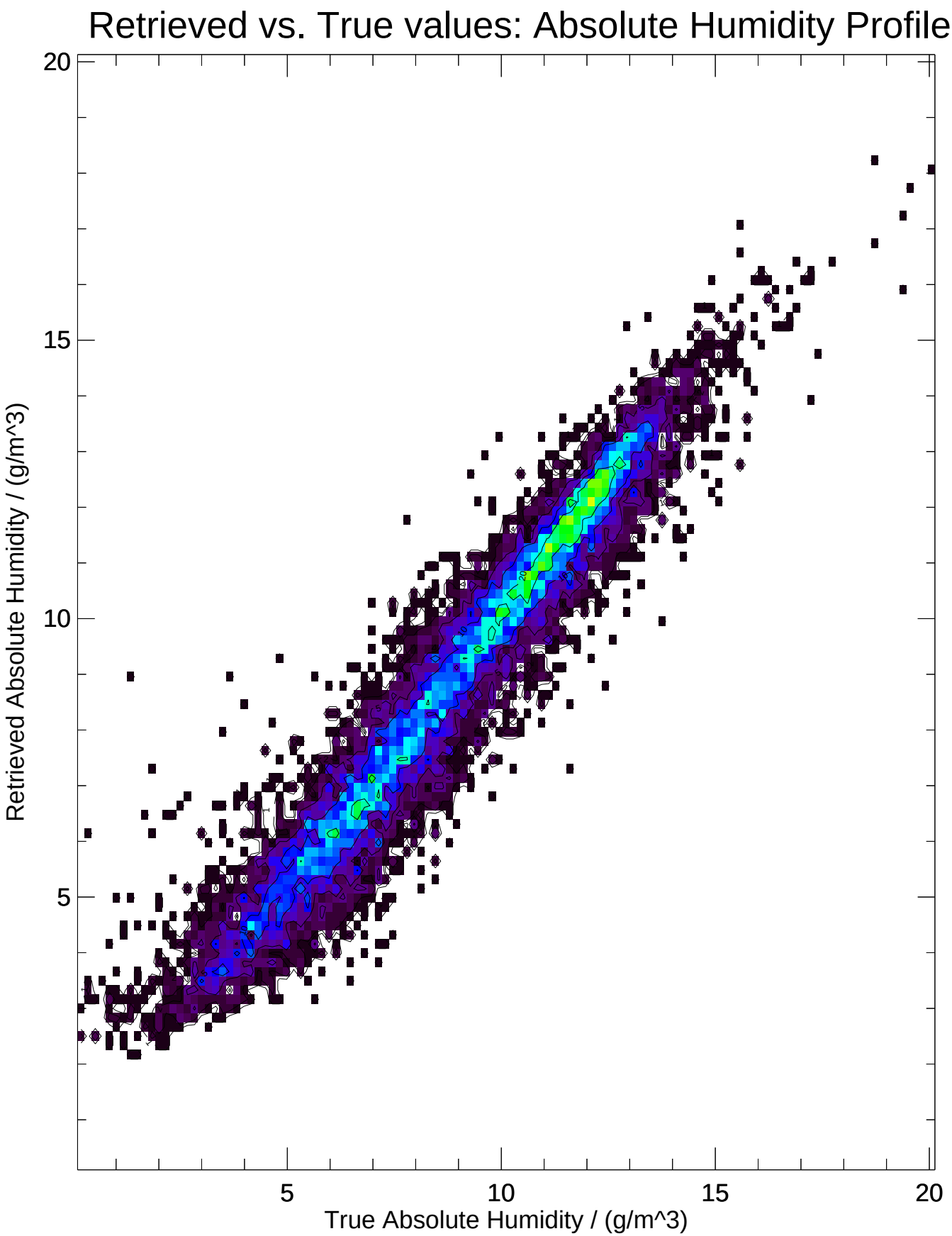

Relative Error (amplitude dependent)
Z = 1080 m
Relative Error, normalized. HPC (thin line: Bias)
0
1
2
3
5
10
15
20
True Value Absolute Humidity / (g/m^3)
N=37
N=100
N=445
N=795
N=1173
N=1284
N=1212
N=1272
N=1412
N=1359
N=555
N=130
N=31
N=9
N=2
N=4

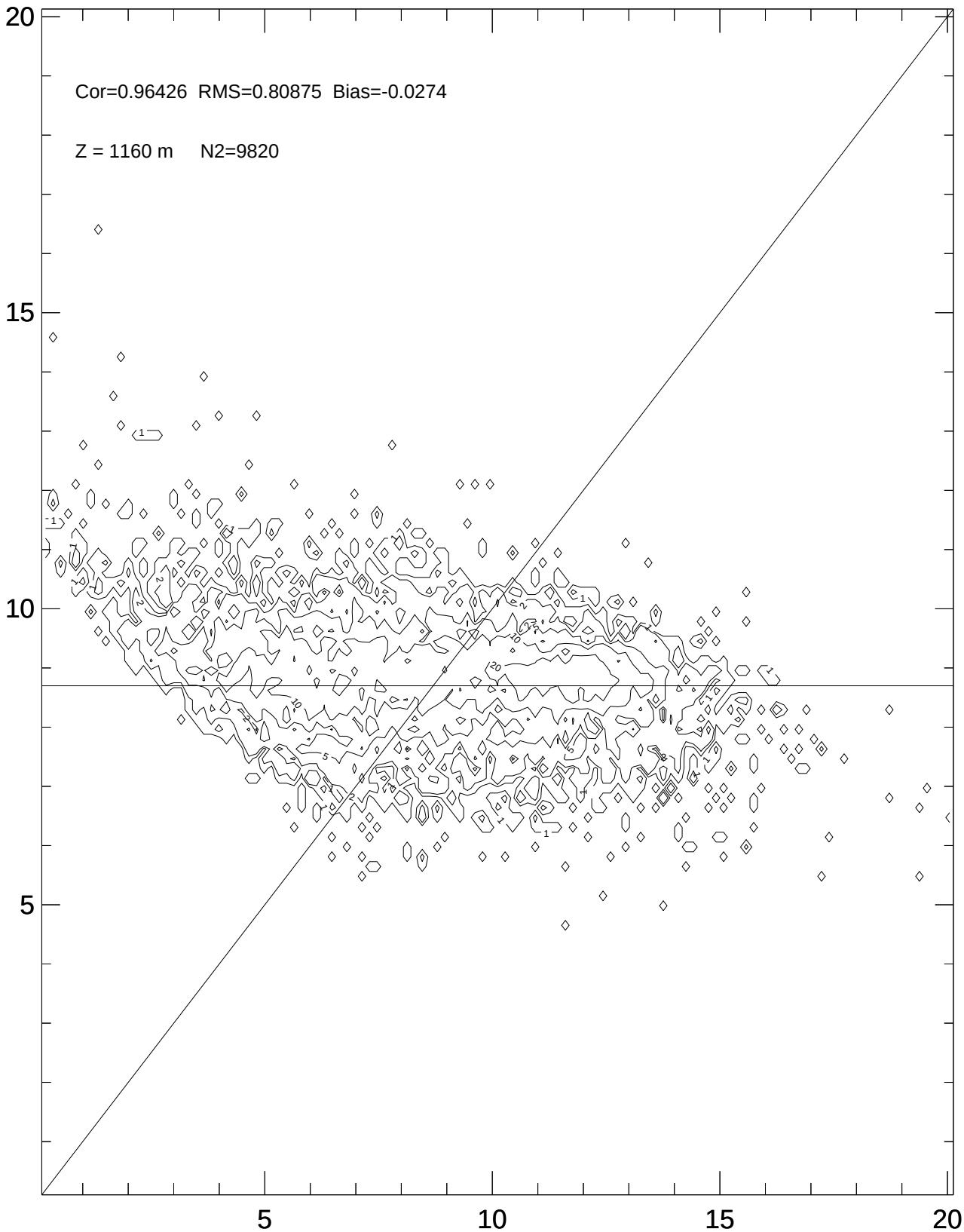

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20

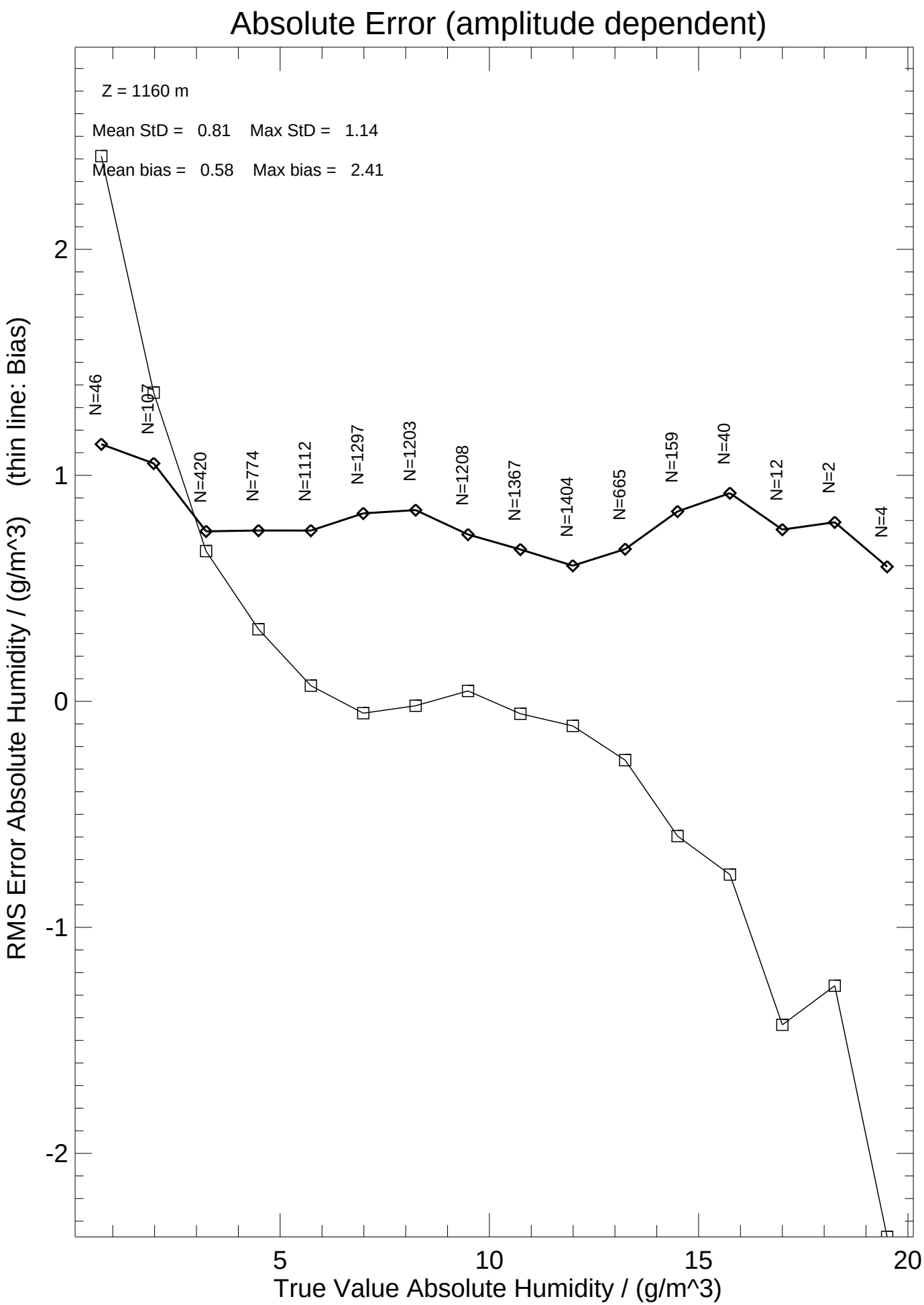

Cor=0.96549 RMS=0.80206 Bias=-0.0263
Z = 1120 m N2=9820
20
15
10
5
5
10
15
20

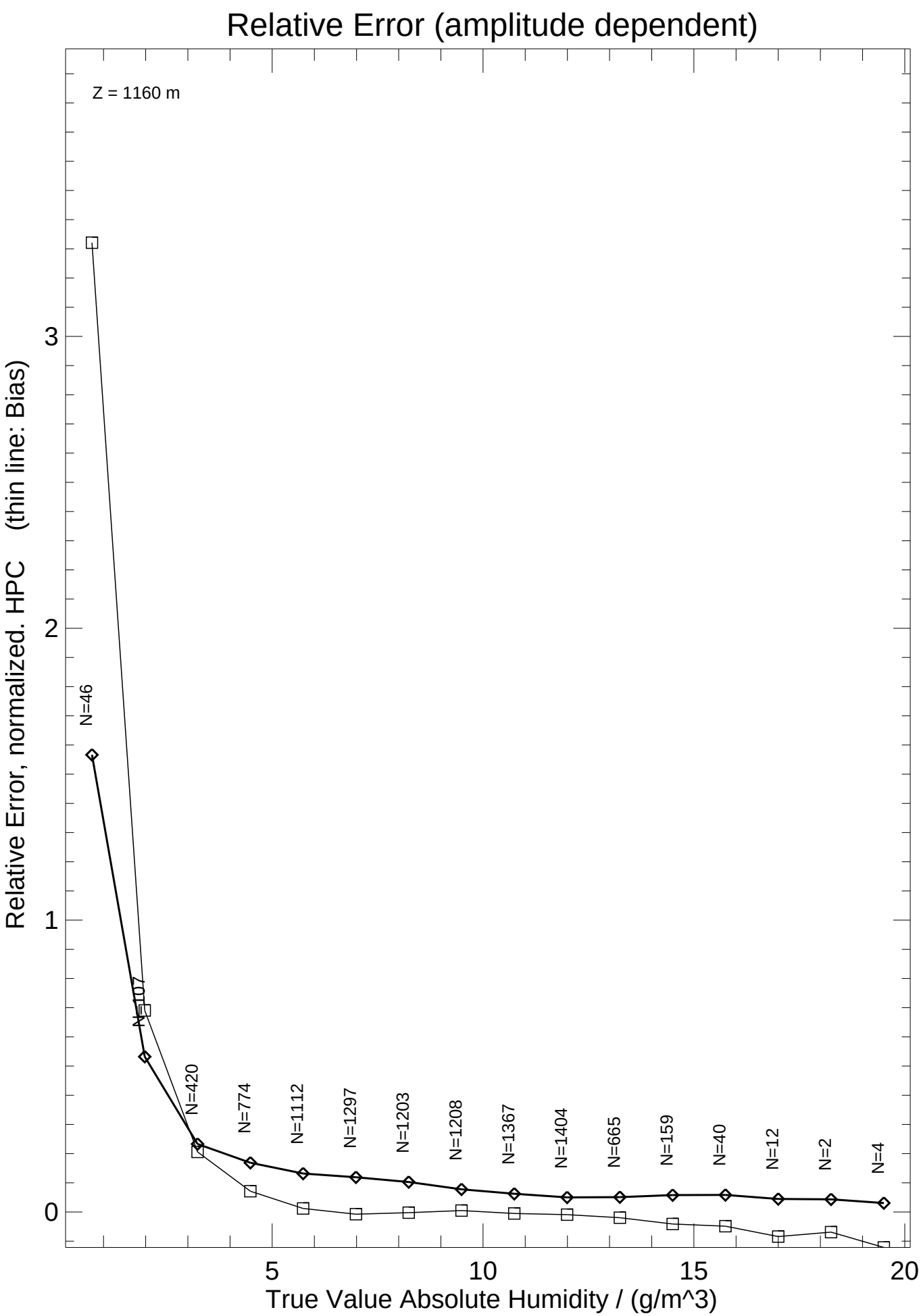

Absolute Error (amplitude dependent)
Z = 1120 m
Mean StD = 0.81 Max StD = 1.20
Mean bias = 0.58 Max bias = 2.37
N=40
N=103
N=435
N=780
N=1138
N=1302
N=1210
N=1234
N=1394
N=1375
N=618
N=138
N=35
N=12
N=2
N=4
2
1
0
-1
-2
5
10
15
20
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

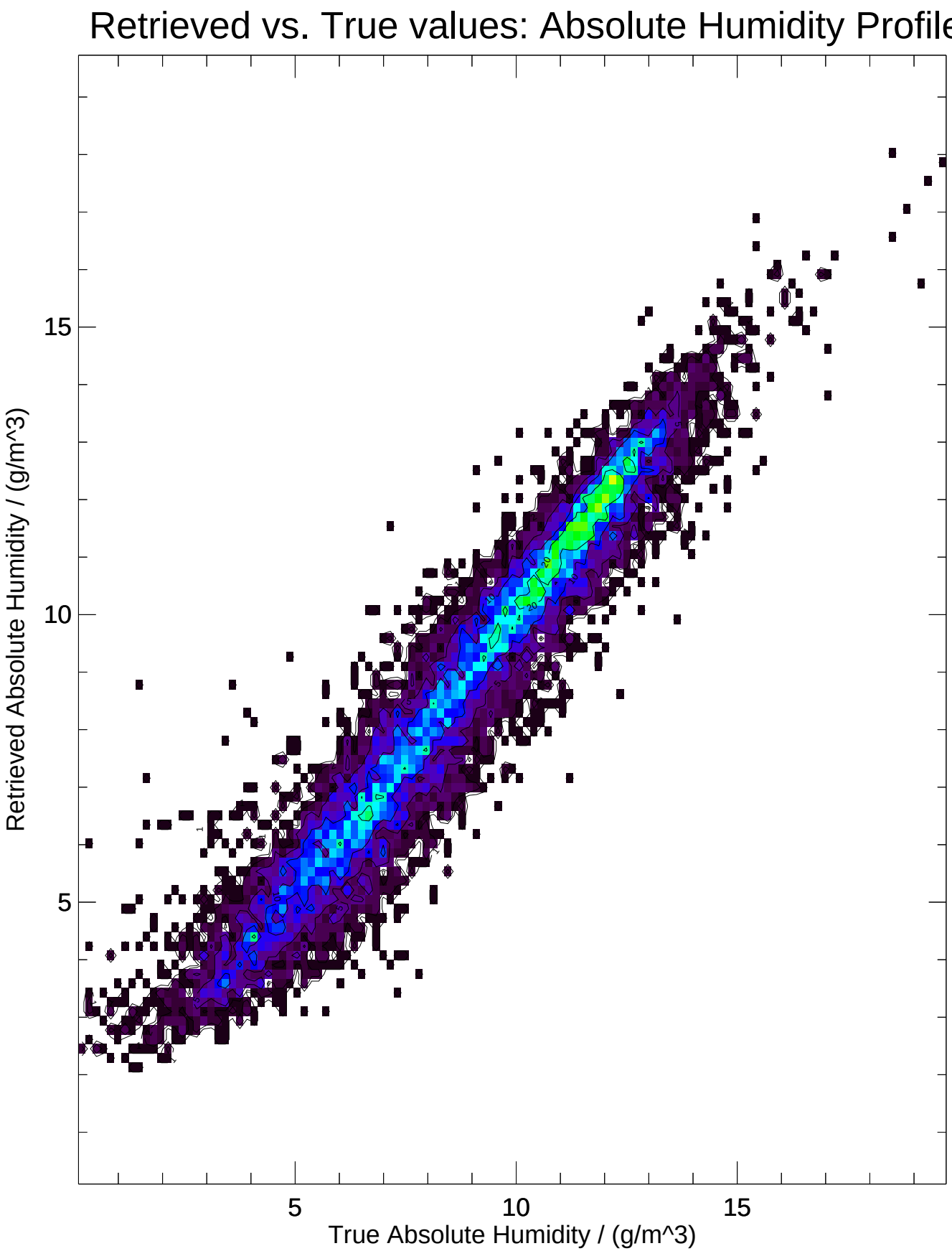

Relative Error (amplitude dependent)
Z = 1120 m
Relative Error, normalized. HPC (thin line: Bias)
0
1
2
3
5
10
15
20
True Value Absolute Humidity / (g/m^3)
N=40
N=103
N=435
N=780
N=1138
N=1302
N=1210
N=1234
N=1394
N=1375
N=618
N=138
N=35
N=12
N=2
N=4

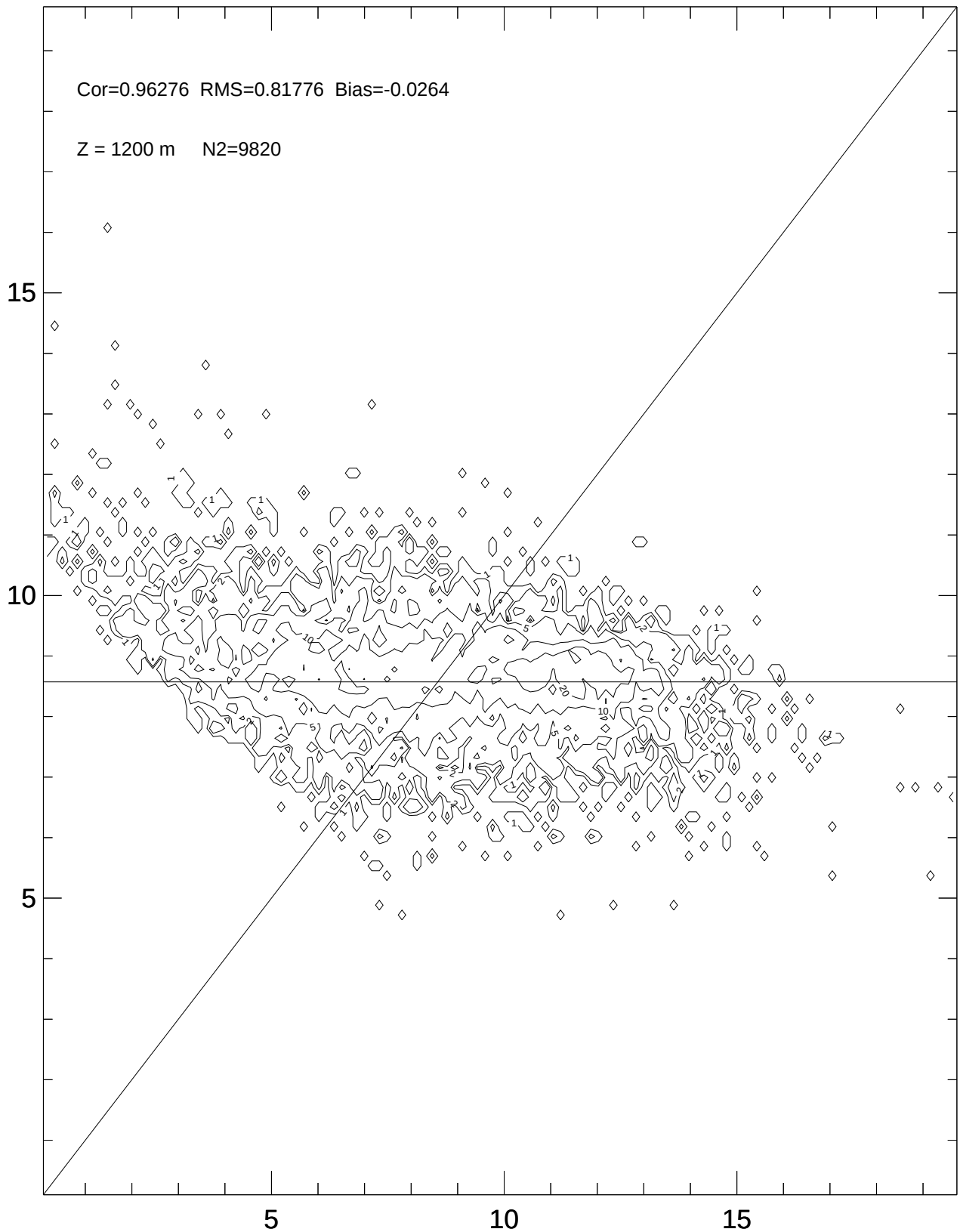

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
20

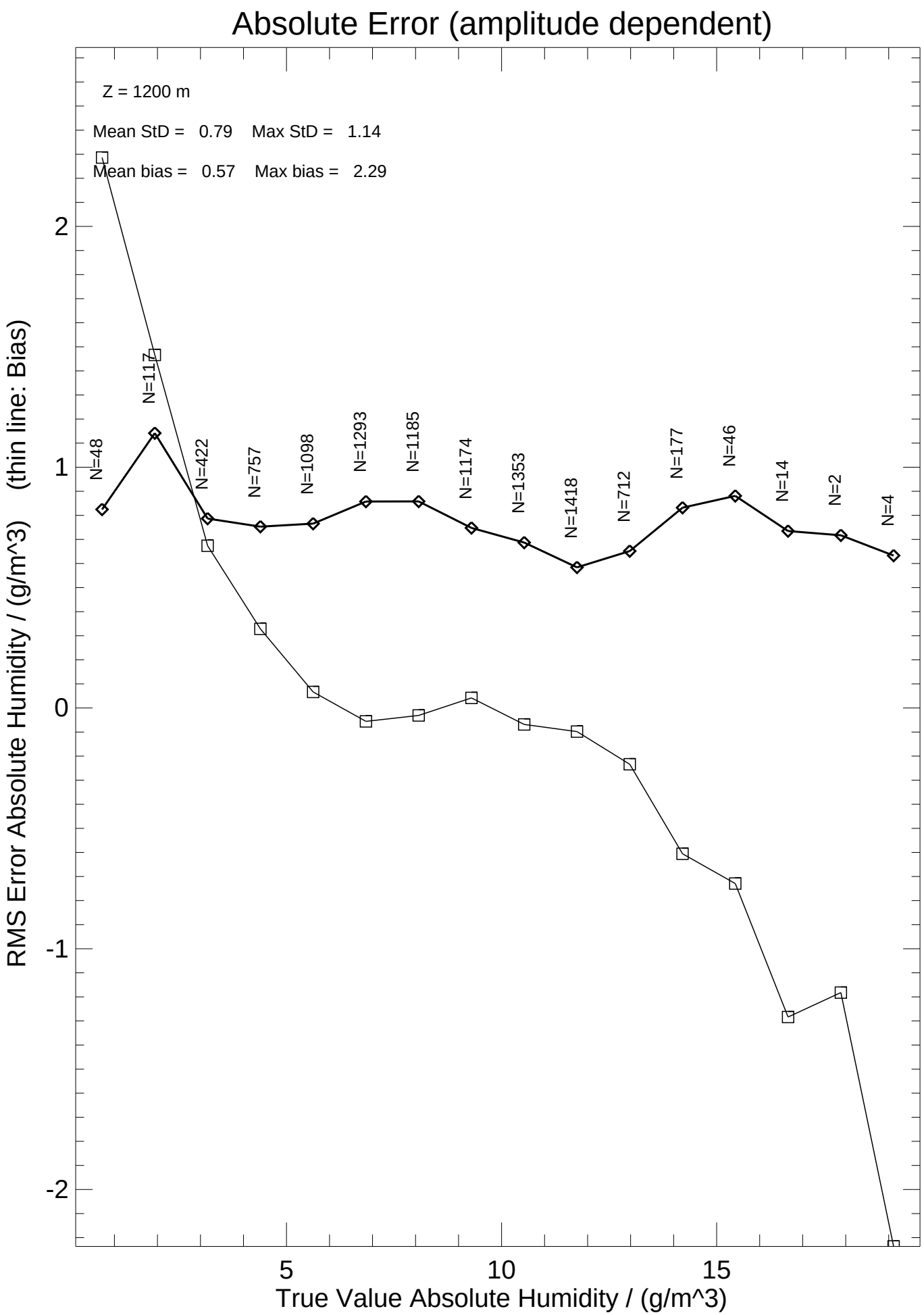

Cor=0.96426 RMS=0.80875 Bias=-0.0274
Z = 1160 m N2=9820
20
15
10
5
5
10
15
20

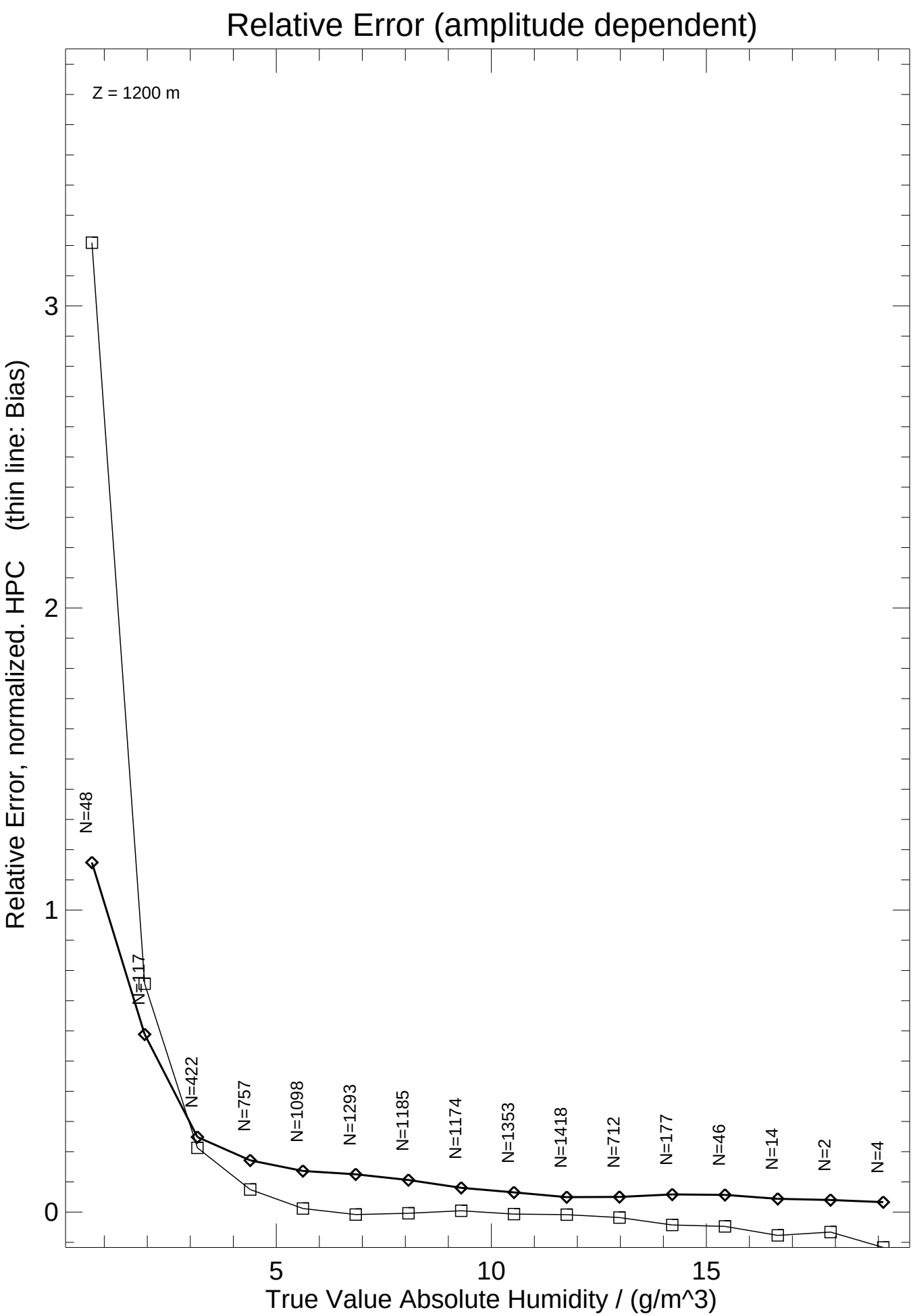

Absolute Error (amplitude dependent)
Z = 1160 m
Mean StD = 0.81 Max StD = 1.14
Mean bias = 0.58 Max bias = 2.41
N=46
N=107
N=420
N=774
N=1112
N=1297
N=1203
N=1208
N=1367
N=1404
N=665
N=159
N=40
N=12
N=2
N=4
2
1
0
-1
-2
5
10
15
20
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

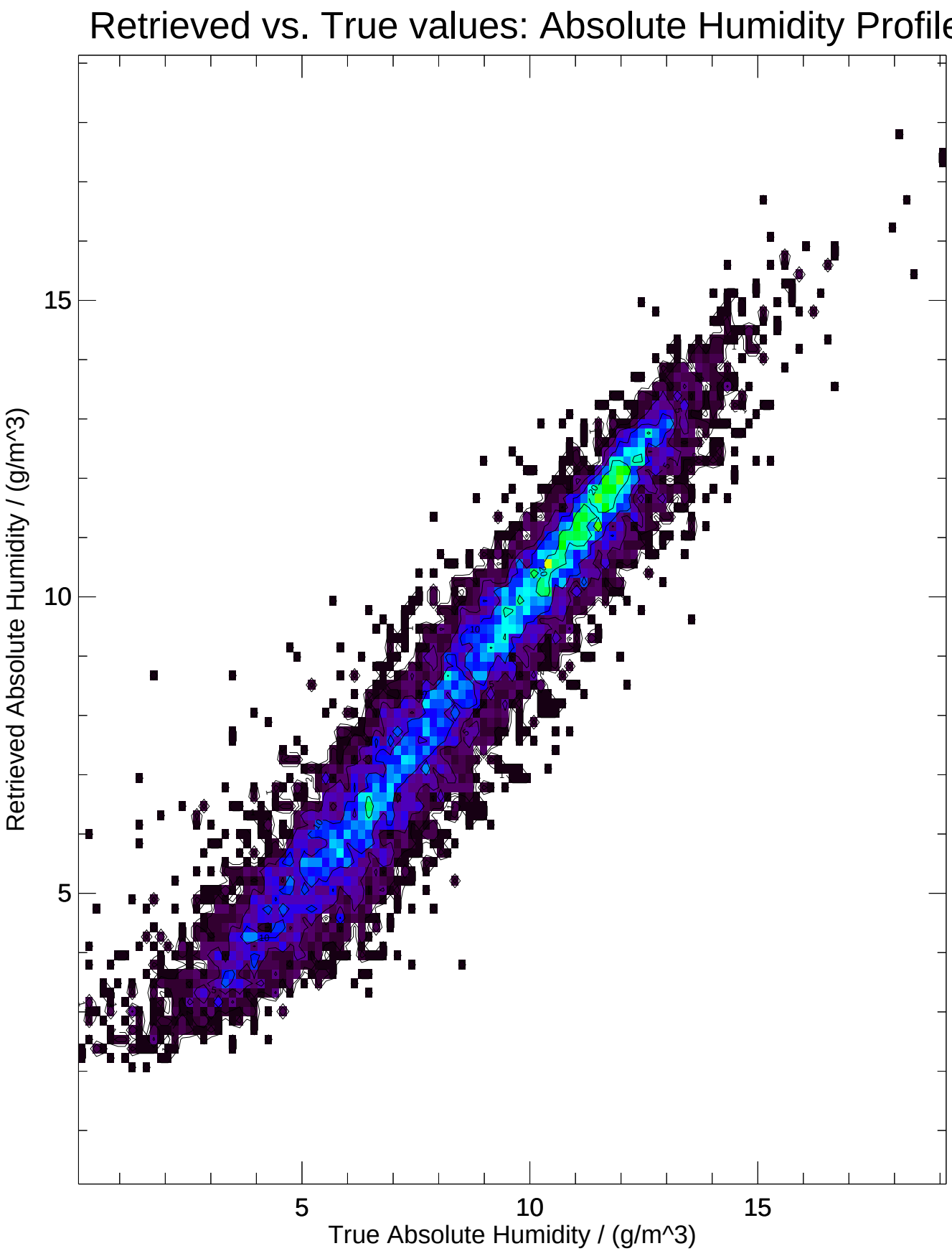

Relative Error (amplitude dependent)
Z = 1160 m
Relative Error, normalized. HPC (thin line: Bias)
0
1
2
3
5
10
15
20
True Value Absolute Humidity / (g/m^3)
N=46
N=107
N=420
N=774
N=1112
N=1297
N=1203
N=1208
N=1367
N=1404
N=665
N=159
N=40
N=12
N=2
N=4

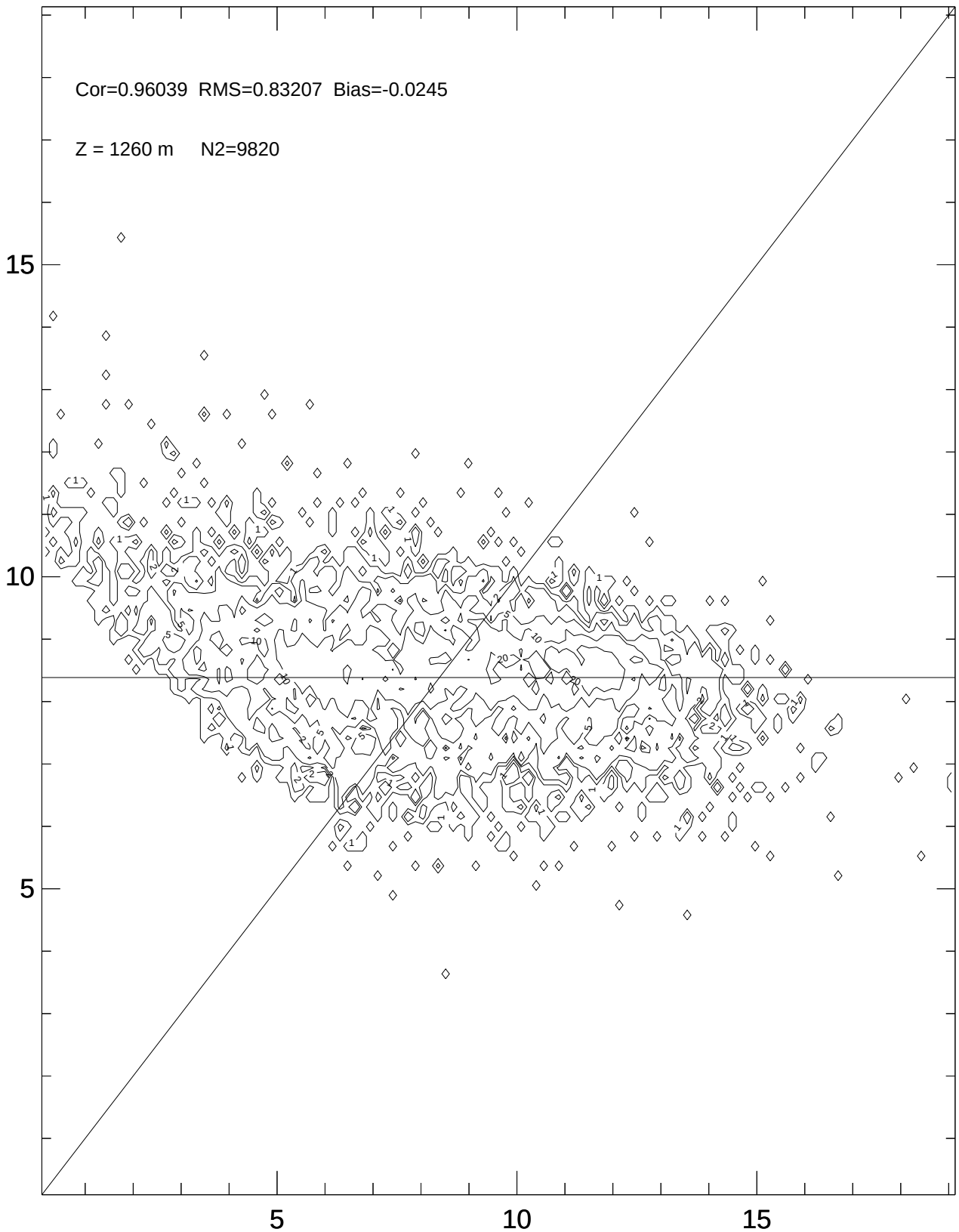

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

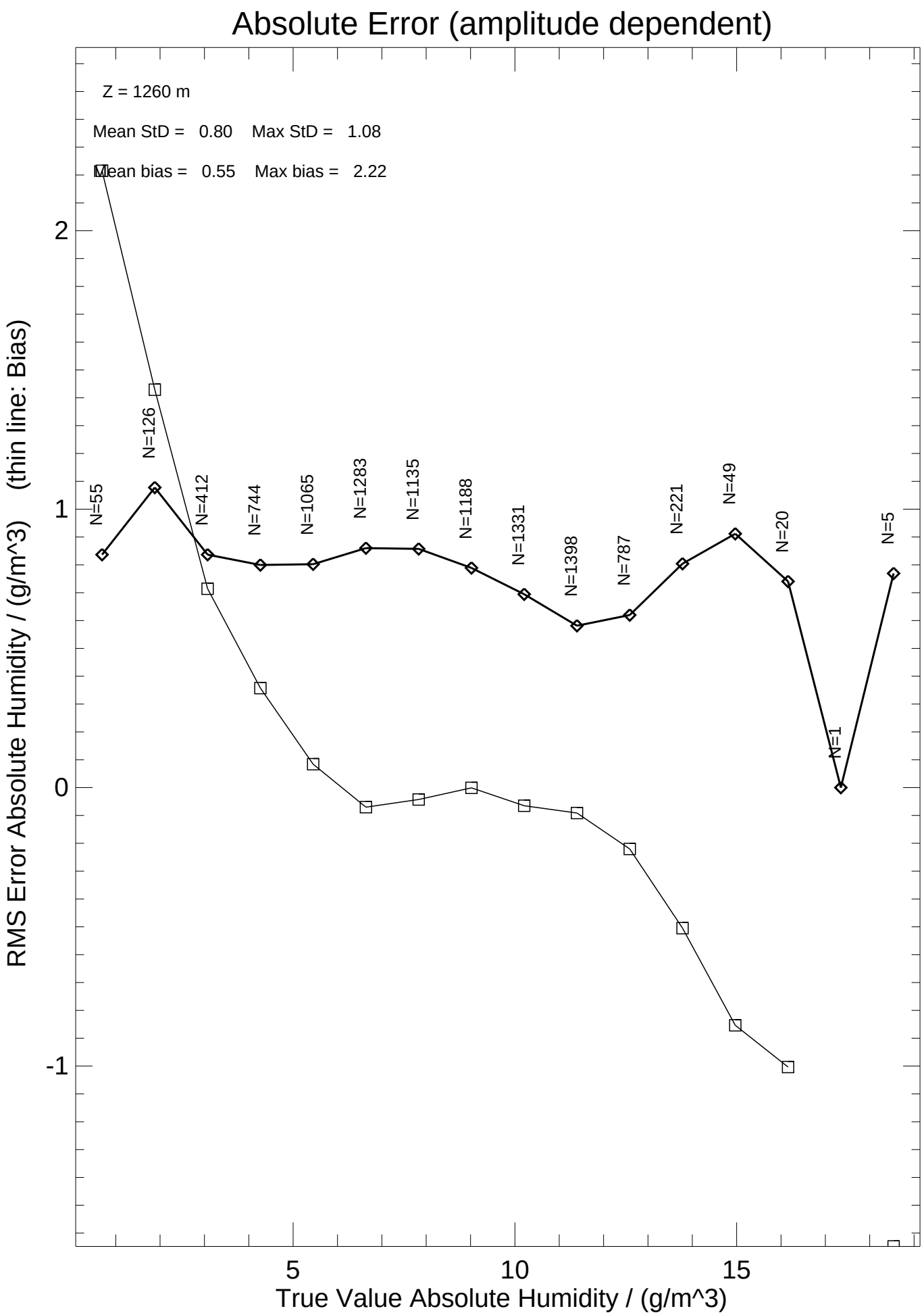

Cor=0.96276 RMS=0.81776 Bias=-0.0264
Z = 1200 m N2=9820
15
10
5
5
10
15

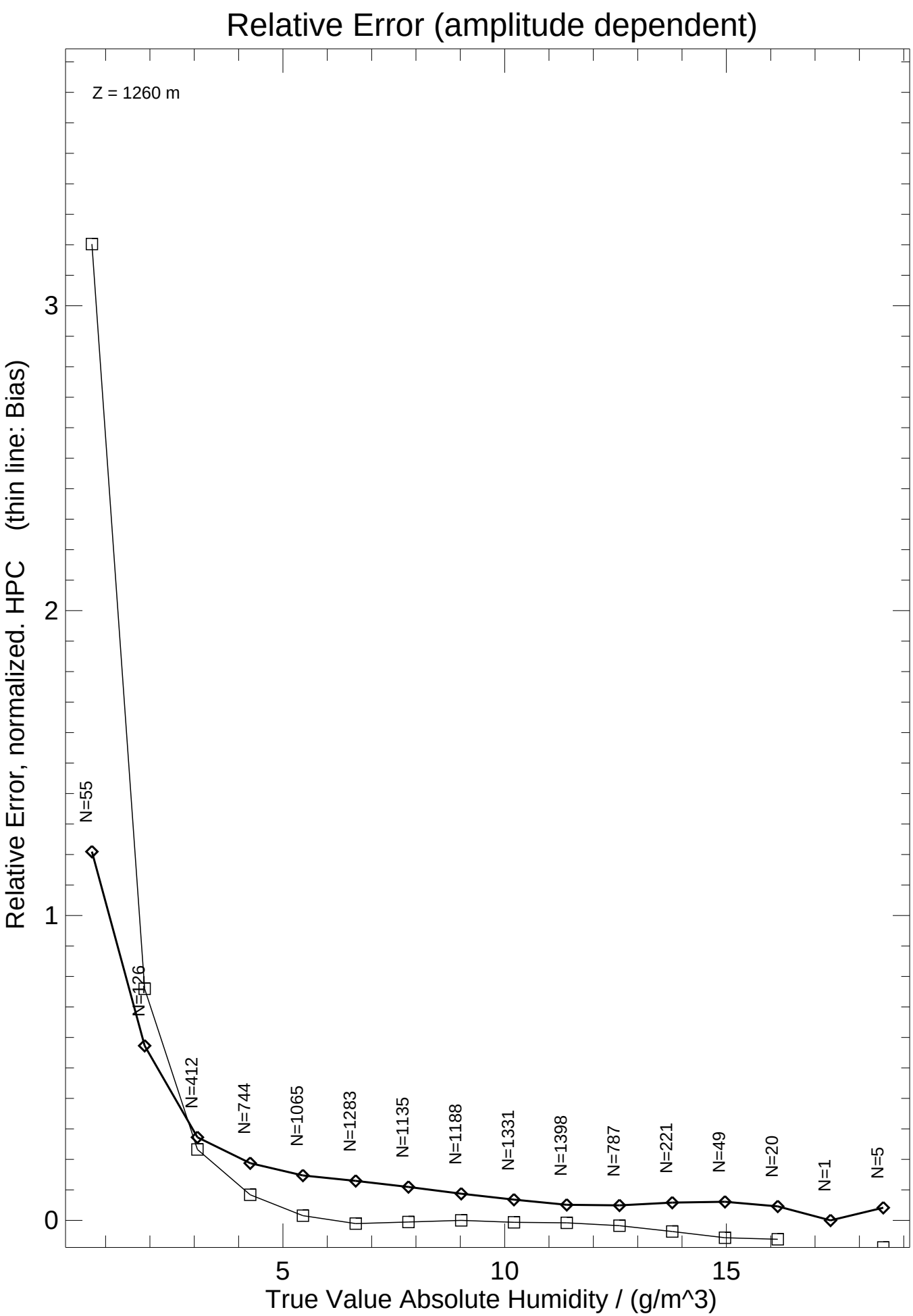

Absolute Error (amplitude dependent)
Z = 1200 m
Mean StD = 0.79 Max StD = 1.14
Mean bias = 0.57 Max bias = 2.29
N=48
N=117
N=422
N=757
N=1098
N=1293
N=1185
N=1174
N=1353
N=1418
N=712
N=177
N=46
N=14
N=2
N=4
2
1
0
-1
-2
5
10
15
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

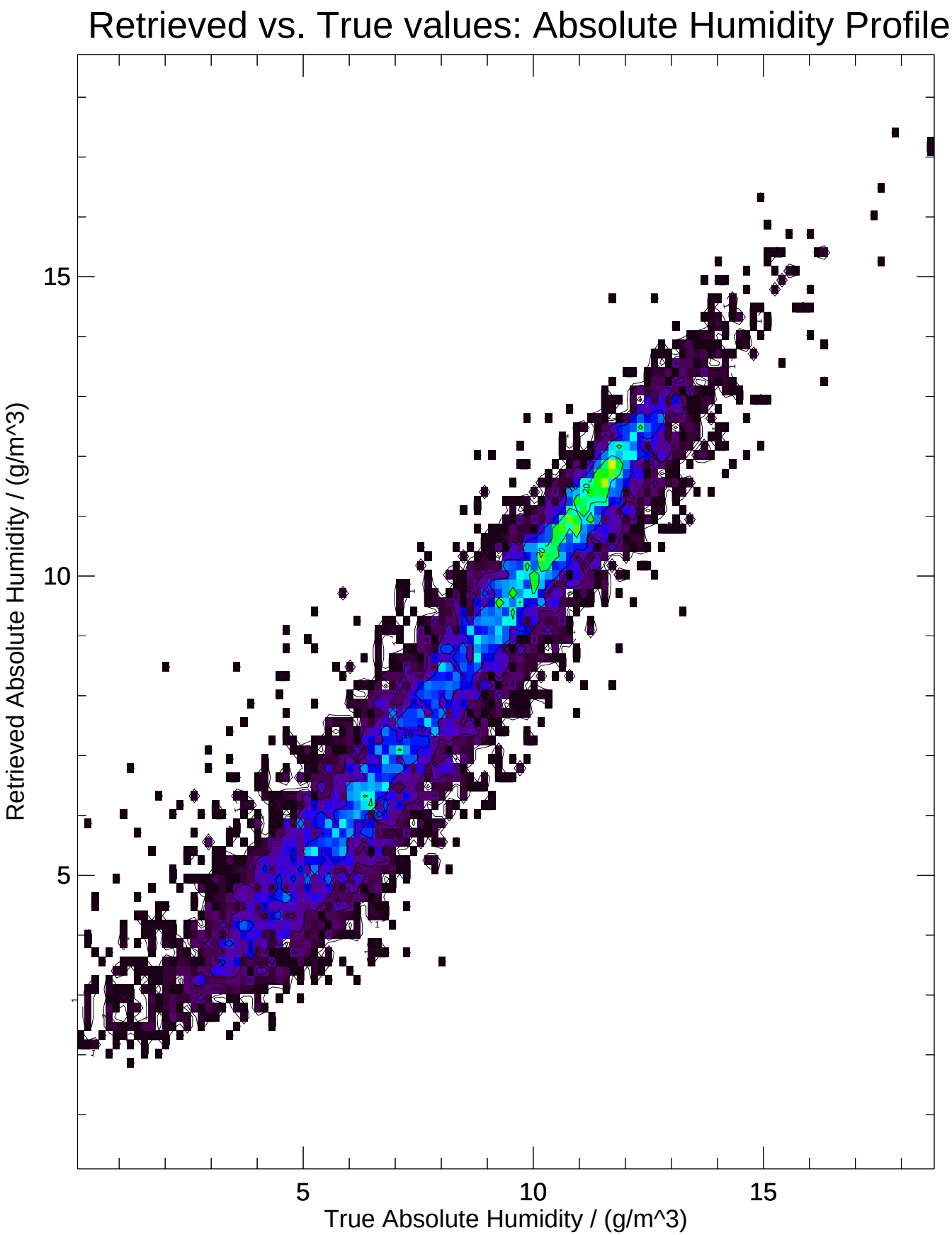

Relative Error (amplitude dependent)
Z = 1200 m
Relative Error, normalized. HPC (thin line: Bias)
0
1
2
3
5
10
15
True Value Absolute Humidity / (g/m^3)
N=48
N=117
N=422
N=757
N=1098
N=1293
N=1185
N=1174
N=1353
N=1418
N=712
N=177
N=46
N=14
N=2
N=4

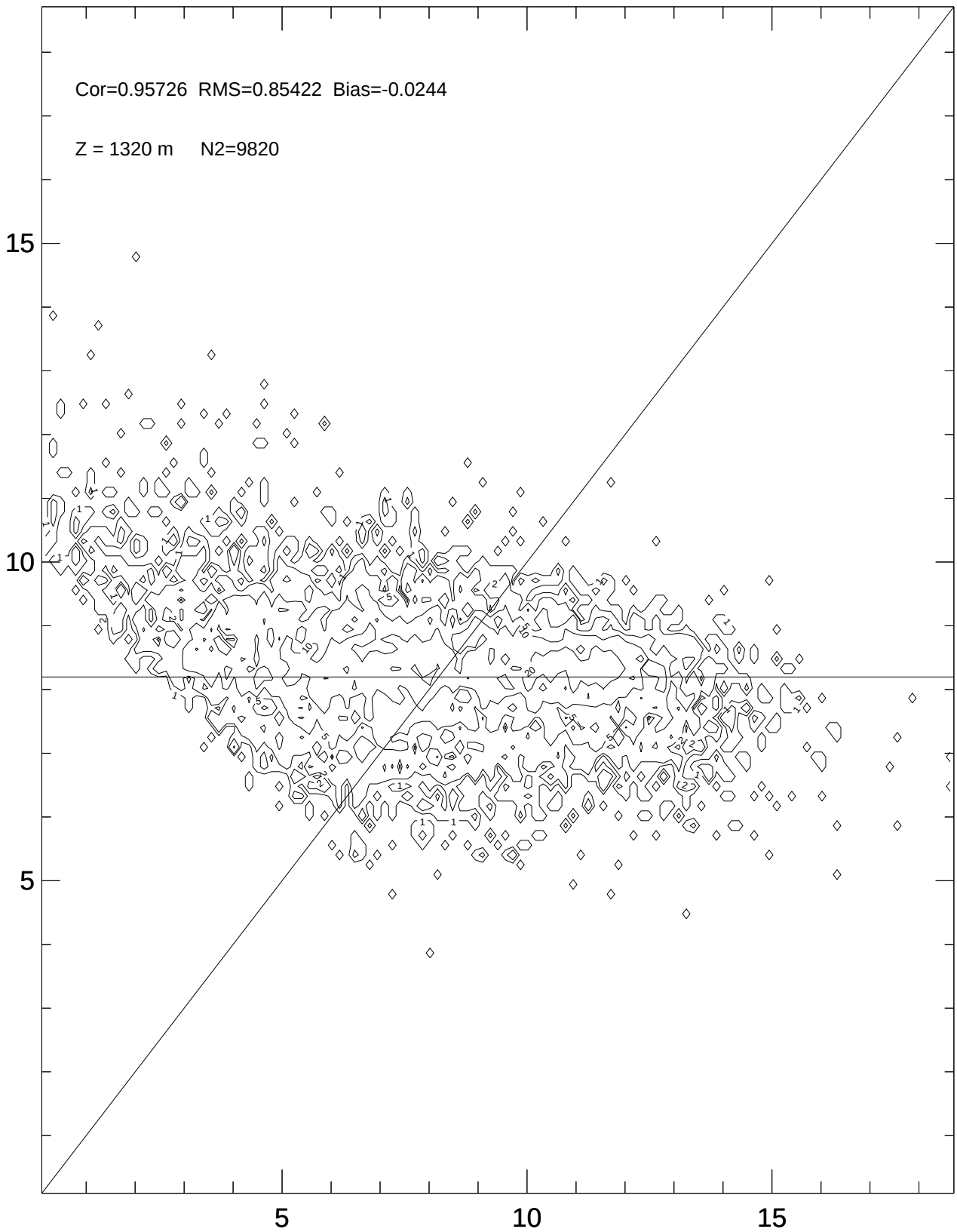

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

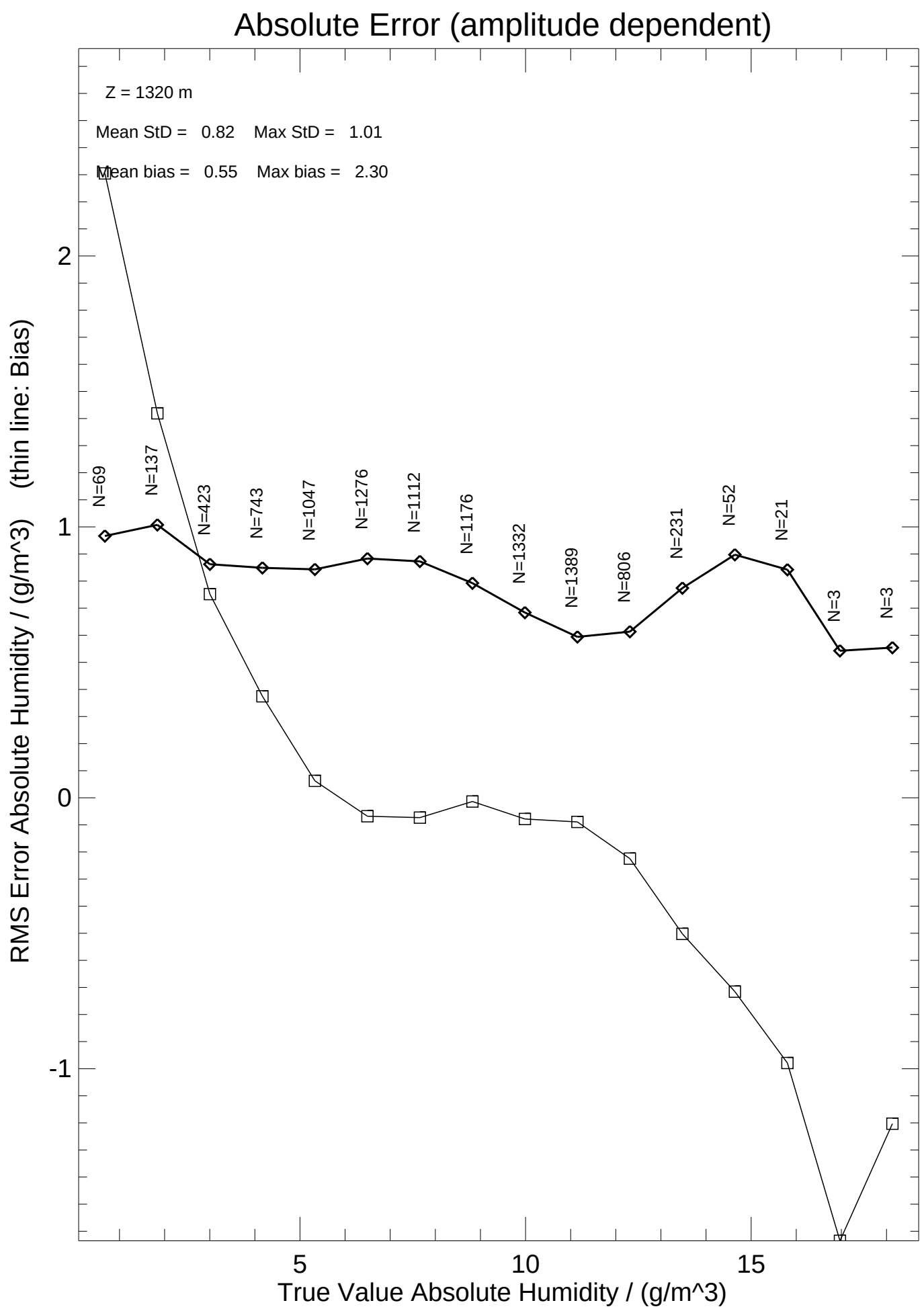

Cor=0.96039 RMS=0.83207 Bias=-0.0245
Z = 1260 m N2=9820
15
10
5
5
10
15

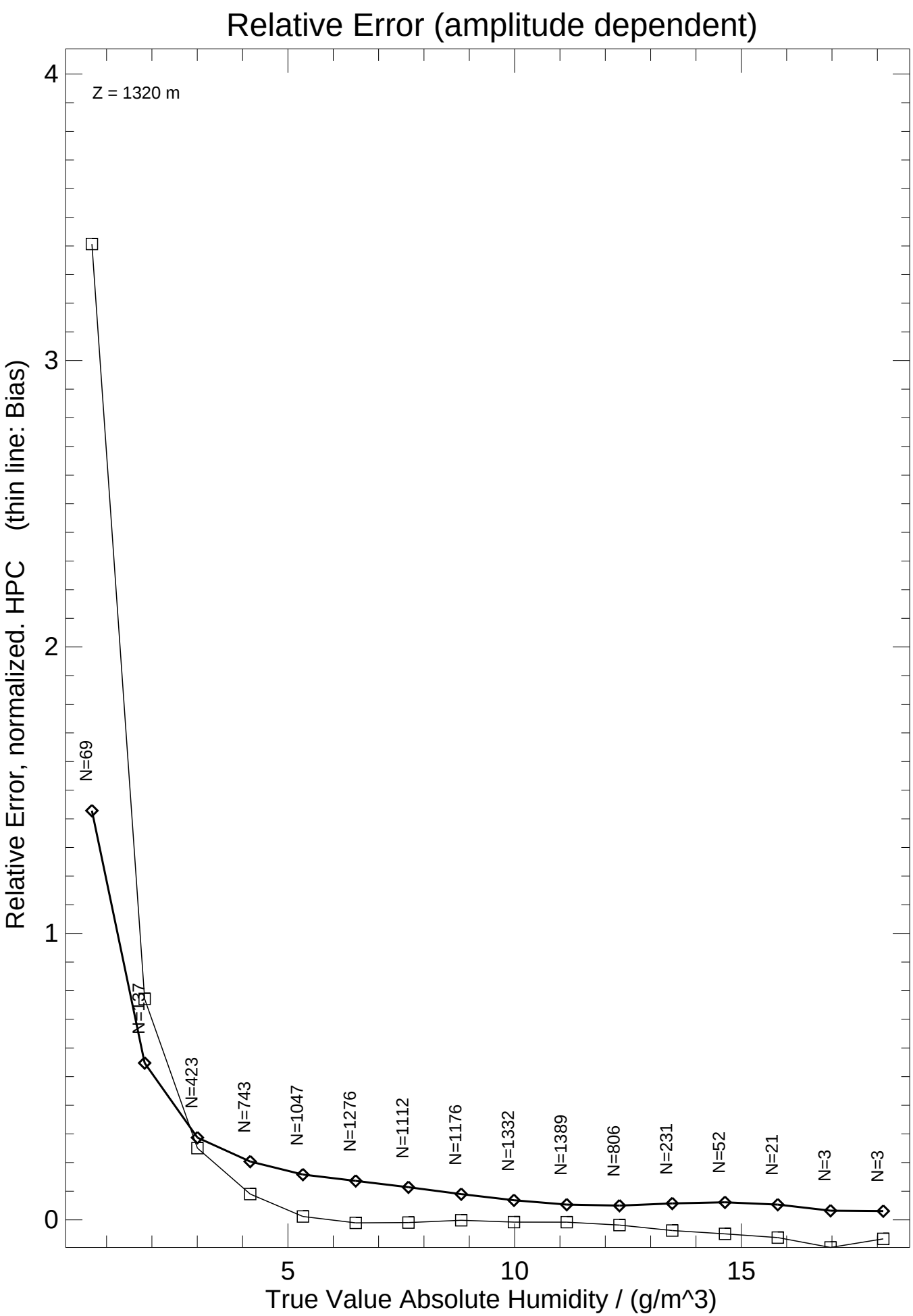

Absolute Error (amplitude dependent)
Z = 1260 m
Mean StD = 0.80 Max StD = 1.08
Mean bias = 0.55 Max bias = 2.22
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
1
0
-1
5
10
15
N=55
N=126
N=412
N=744
N=1065
N=1283
N=1135
N=1188
N=1331
N=1398
N=787
N=221
N=49
N=20
N=1
N=5

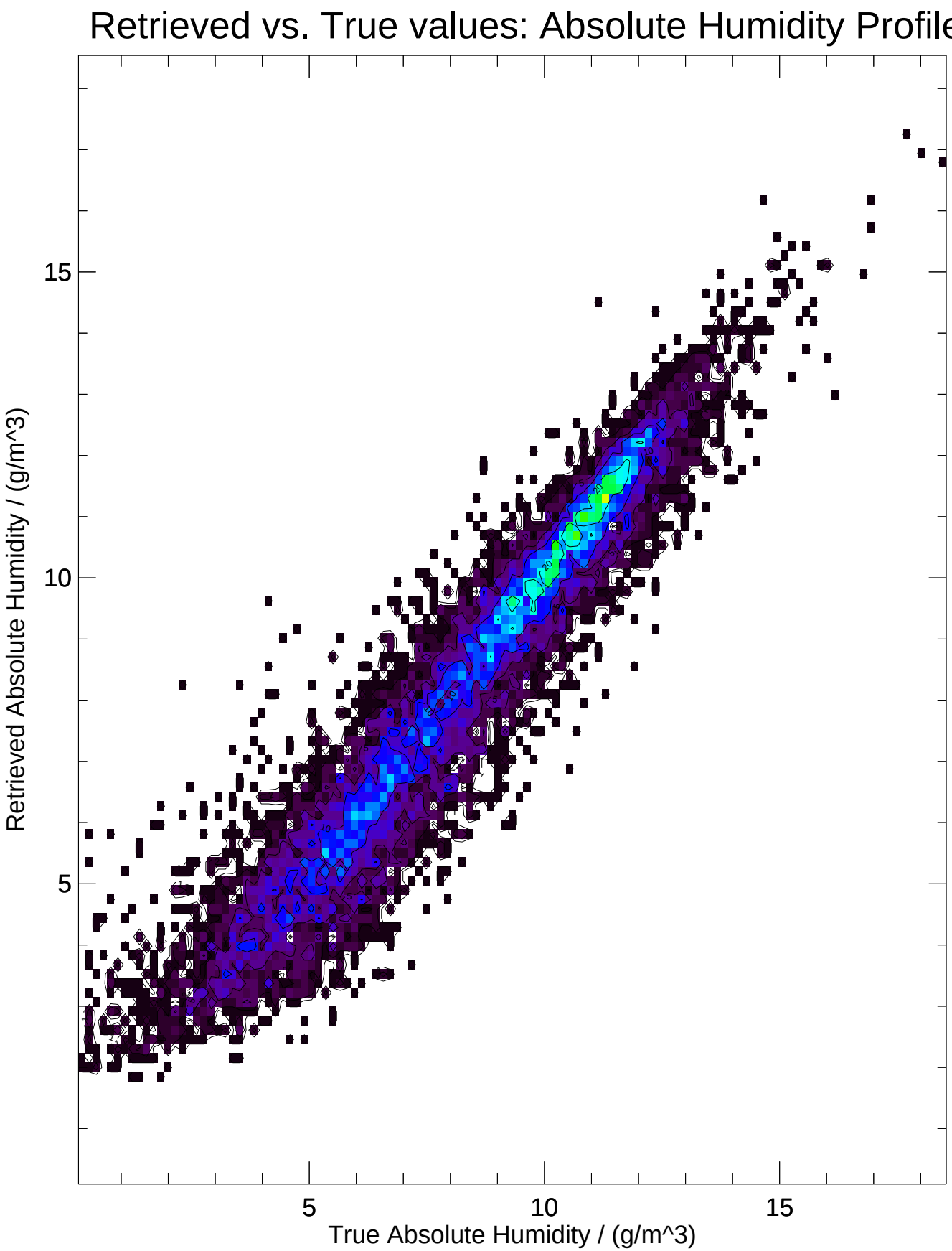

Relative Error (amplitude dependent)
Z = 1260 m
Relative Error, normalized. HPC (thin line: Bias)
0
1
2
3
5
10
15
True Value Absolute Humidity / (g/m^3)
N=55
N=126
N=412
N=744
N=1065
N=1283
N=1135
N=1188
N=1331
N=1398
N=787
N=221
N=49
N=20
N=1
N=5

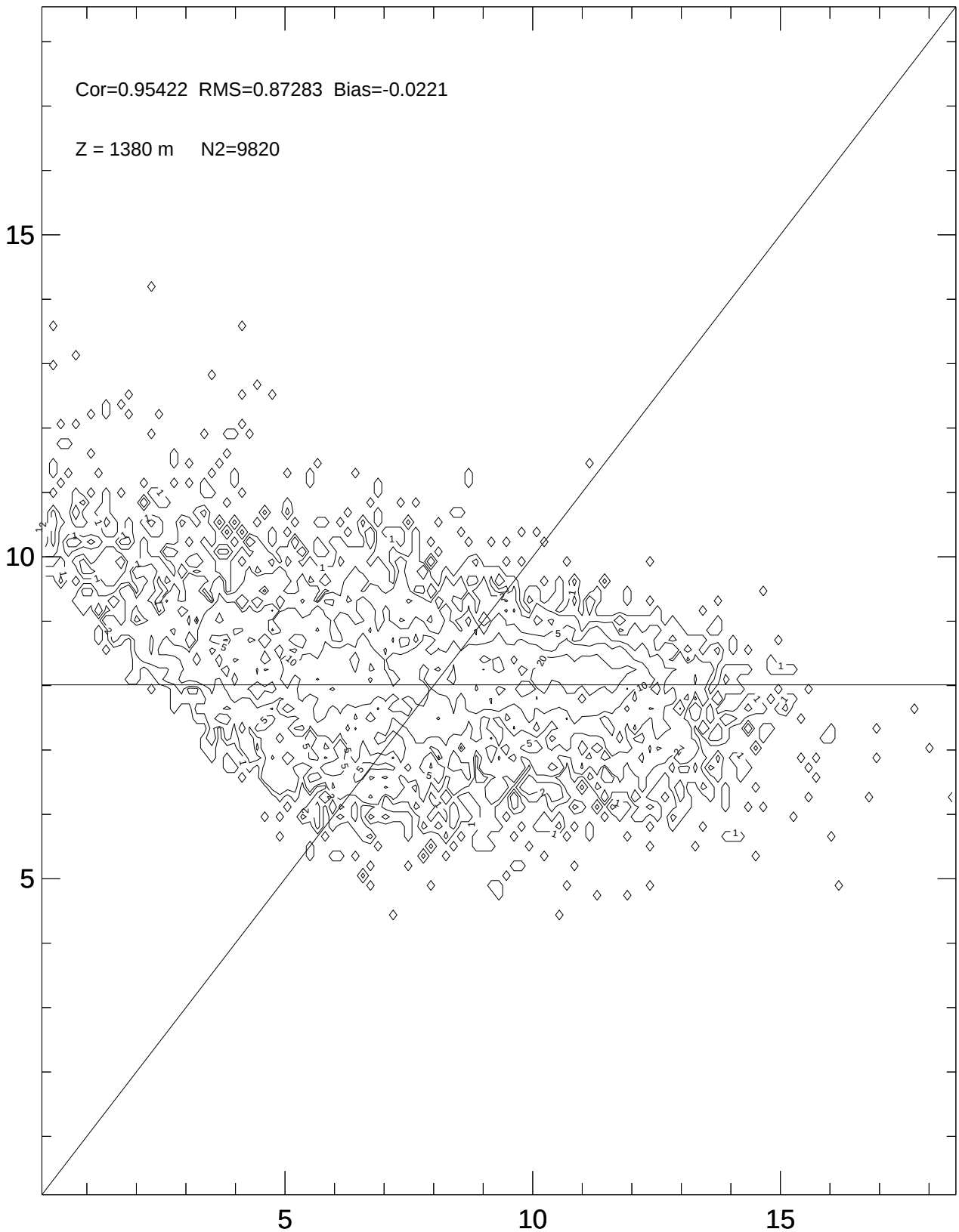

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

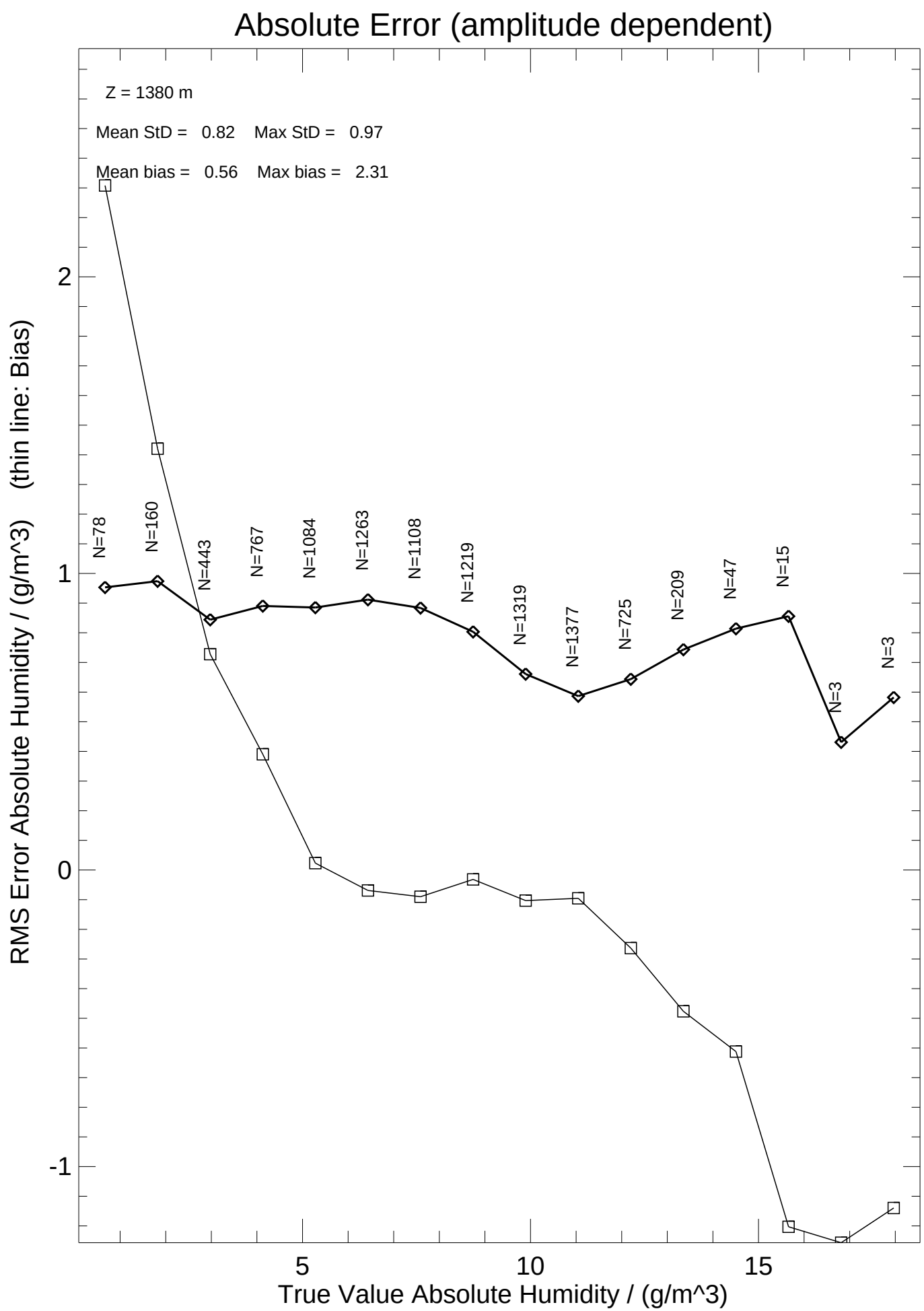

Cor=0.95726 RMS=0.85422 Bias=-0.0244
Z = 1320 m N2=9820
15
10
5
5
10
15

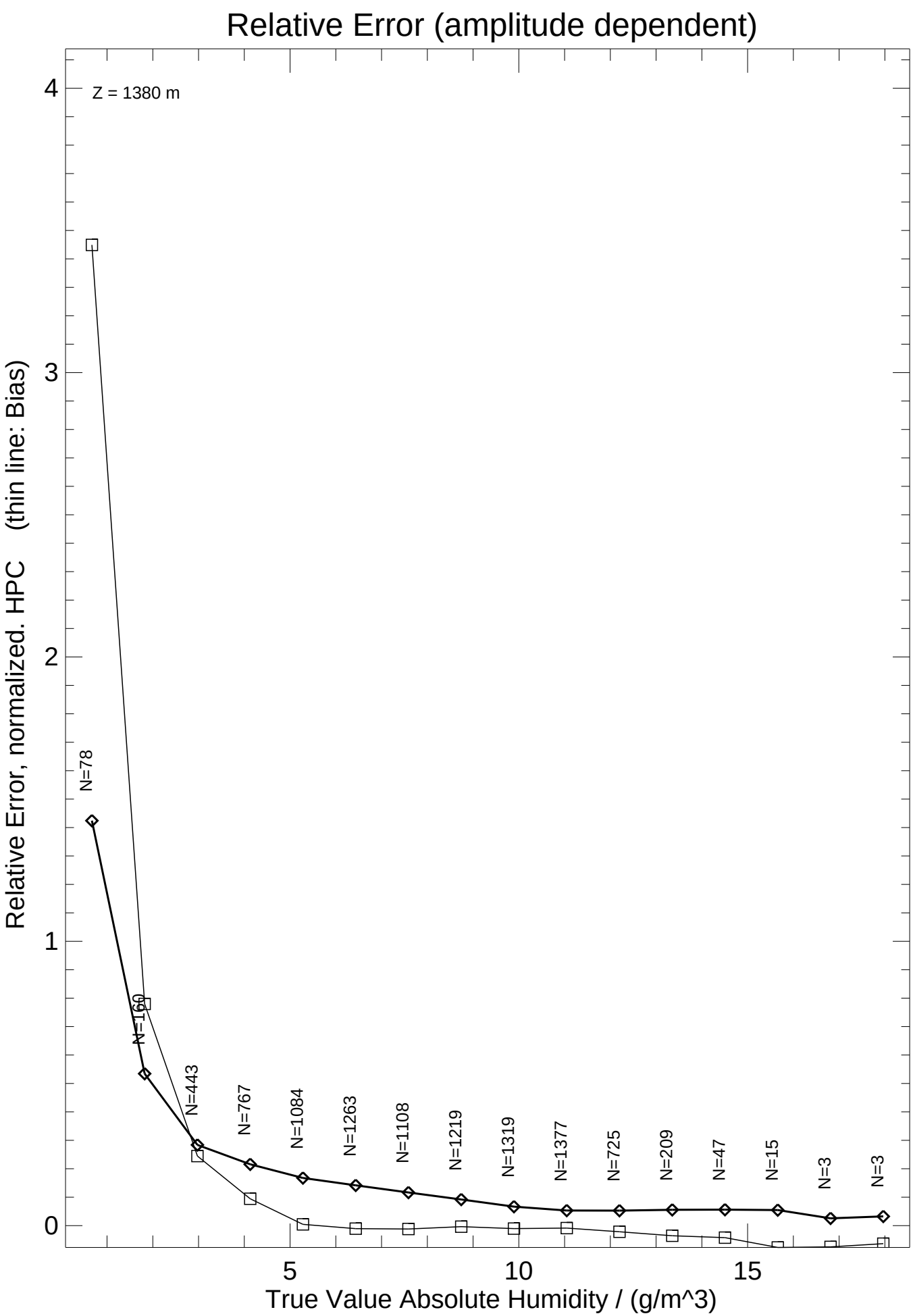

Absolute Error (amplitude dependent)
Z = 1320 m
Mean StD = 0.82 Max StD = 1.01
Mean bias = 0.55 Max bias = 2.30
N=69
N=137
N=423
N=743
N=1047
N=1276
N=1112
N=1176
N=1332
N=1389
N=806
N=231
N=52
N=21
N=3
N=3
2
1
0
-1
5
10
15
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

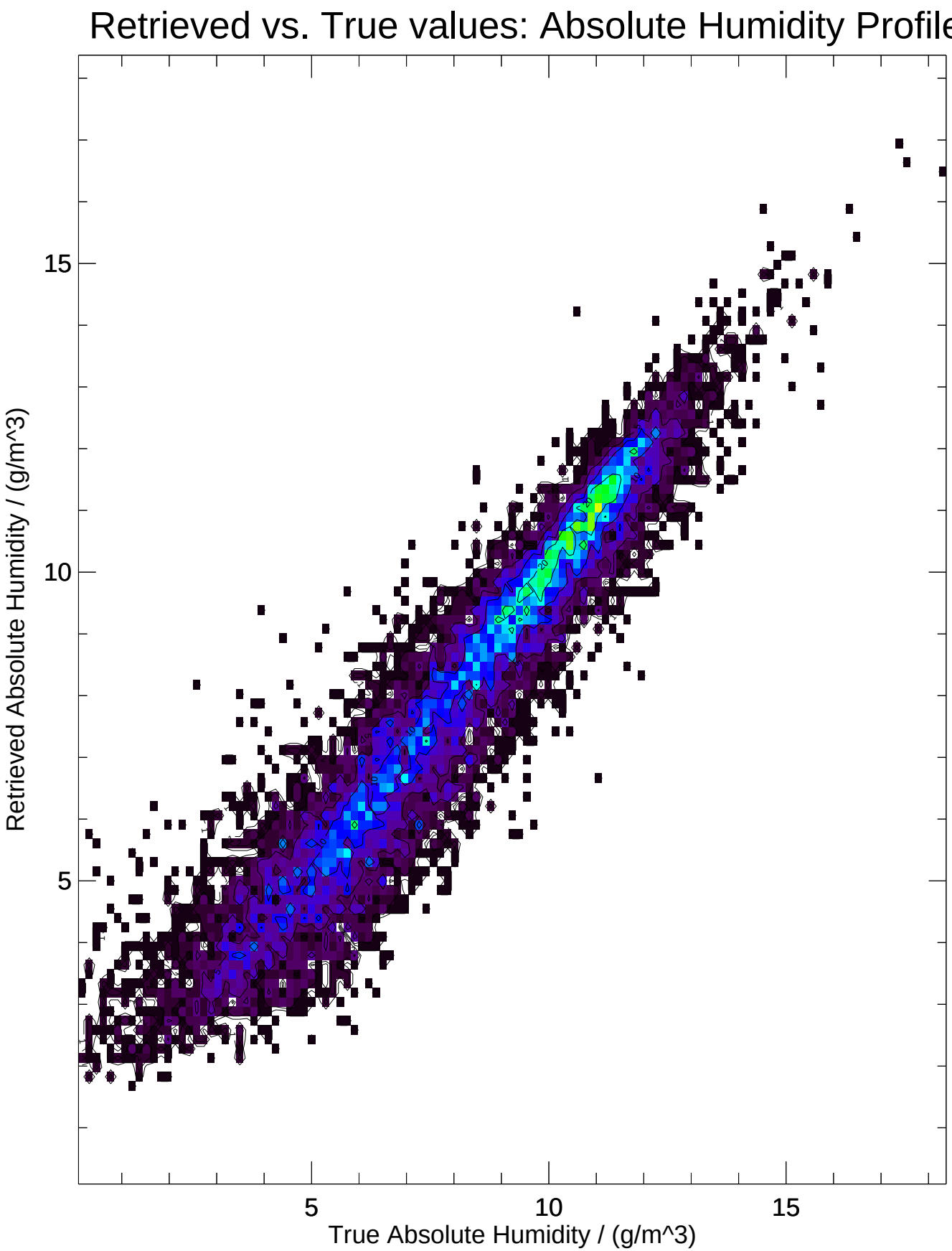

Relative Error (amplitude dependent)
Z = 1320 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
4
5
10
15
N=69
N=137
N=423
N=743
N=1047
N=1276
N=1112
N=1176
N=1332
N=1389
N=806
N=231
N=52
N=21
N=3
N=3

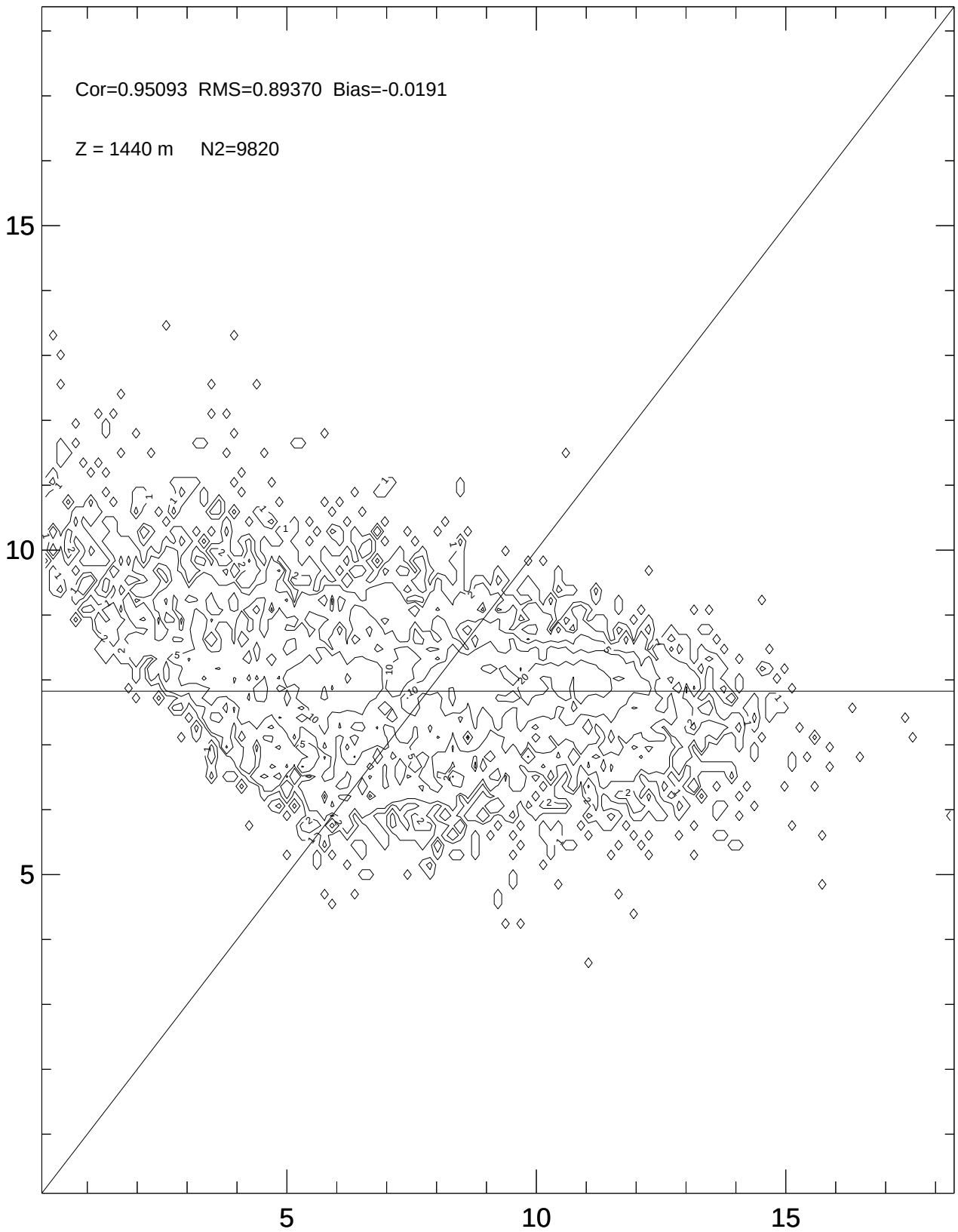

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

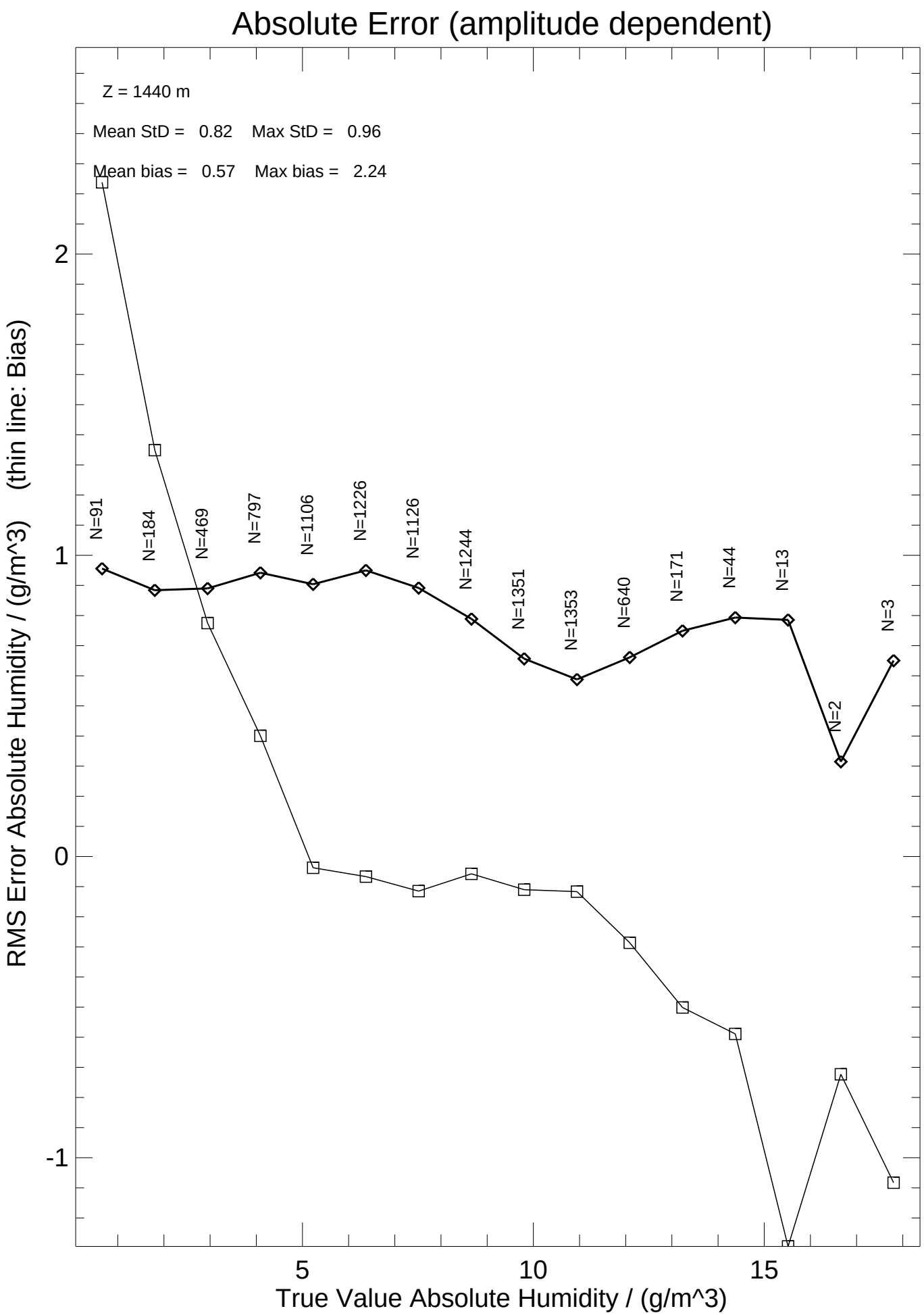

Cor=0.95422 RMS=0.87283 Bias=-0.0221
Z = 1380 m N2=9820
15
10
5
5
10
15

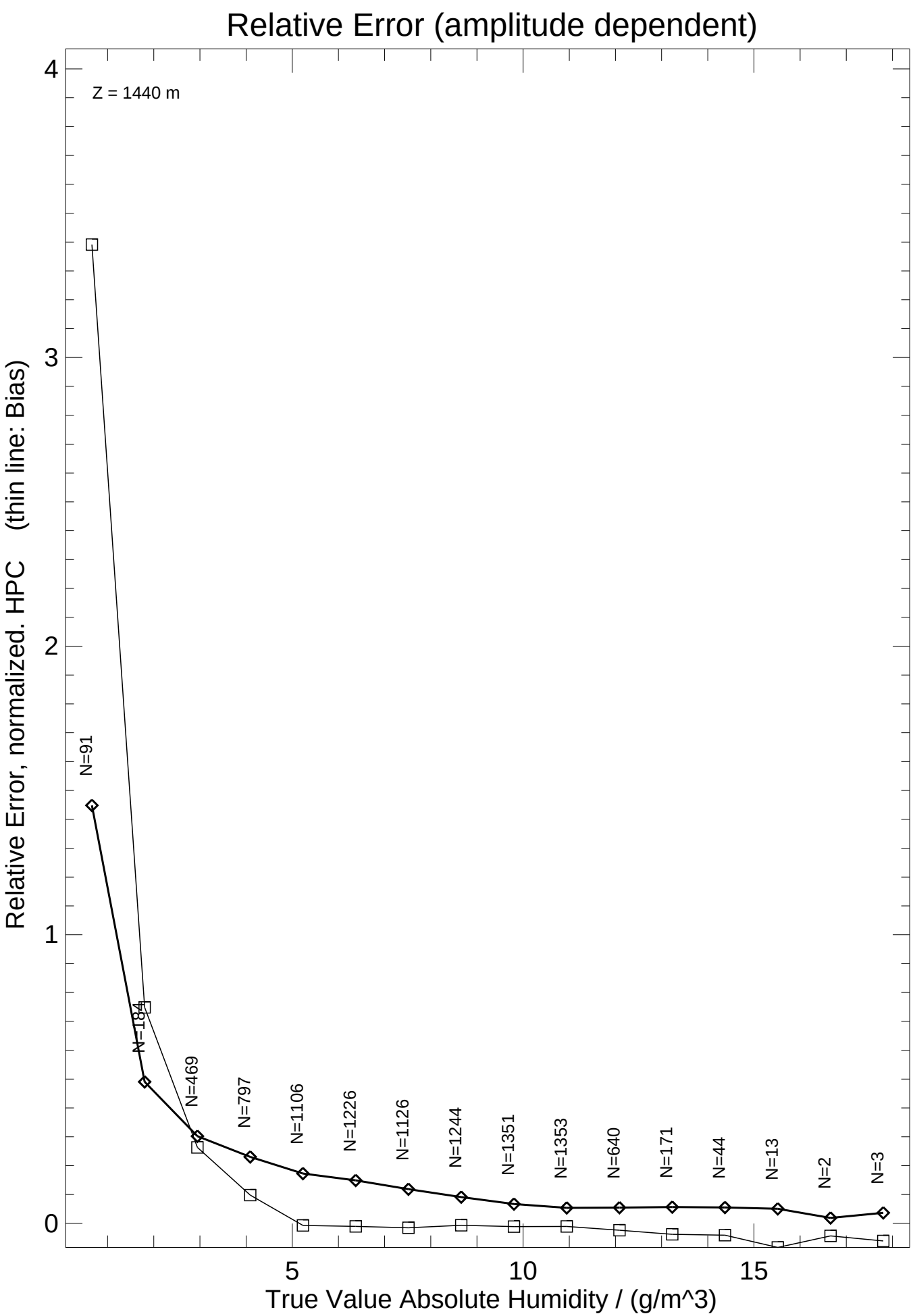

Absolute Error (amplitude dependent)
Z = 1380 m
Mean StD = 0.82 Max StD = 0.97
Mean bias = 0.56 Max bias = 2.31
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
1
0
-1
5
10
15
N=78
N=160
N=443
N=767
N=1084
N=1263
N=1108
N=1219
N=1319
N=1377
N=725
N=209
N=47
N=15
N=3
N=3

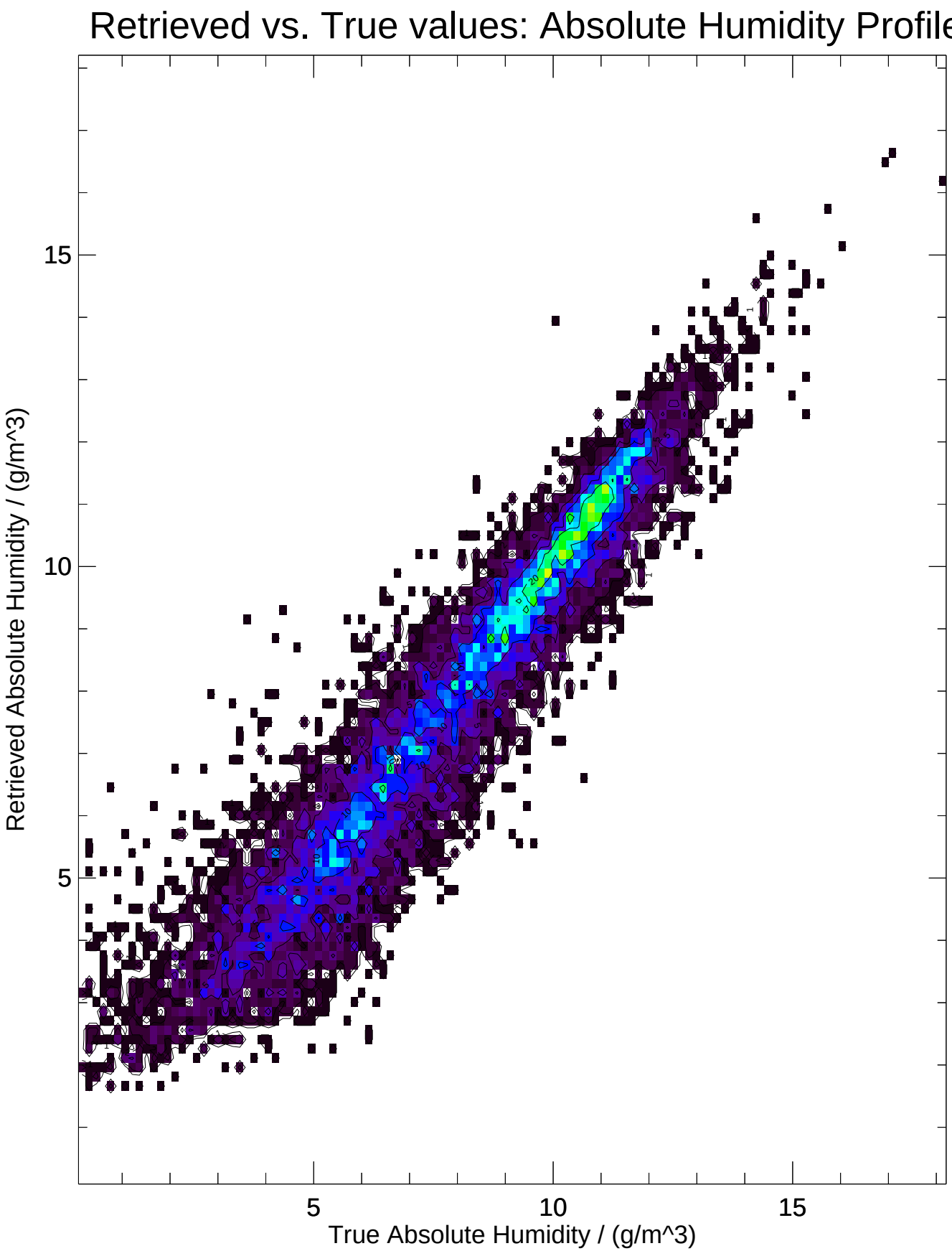

Relative Error (amplitude dependent)
Z = 1380 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
4
5
10
15
N=78
N=160
N=443
N=767
N=1084
N=1263
N=1108
N=1219
N=1319
N=1377
N=725
N=209
N=47
N=15
N=3
N=3

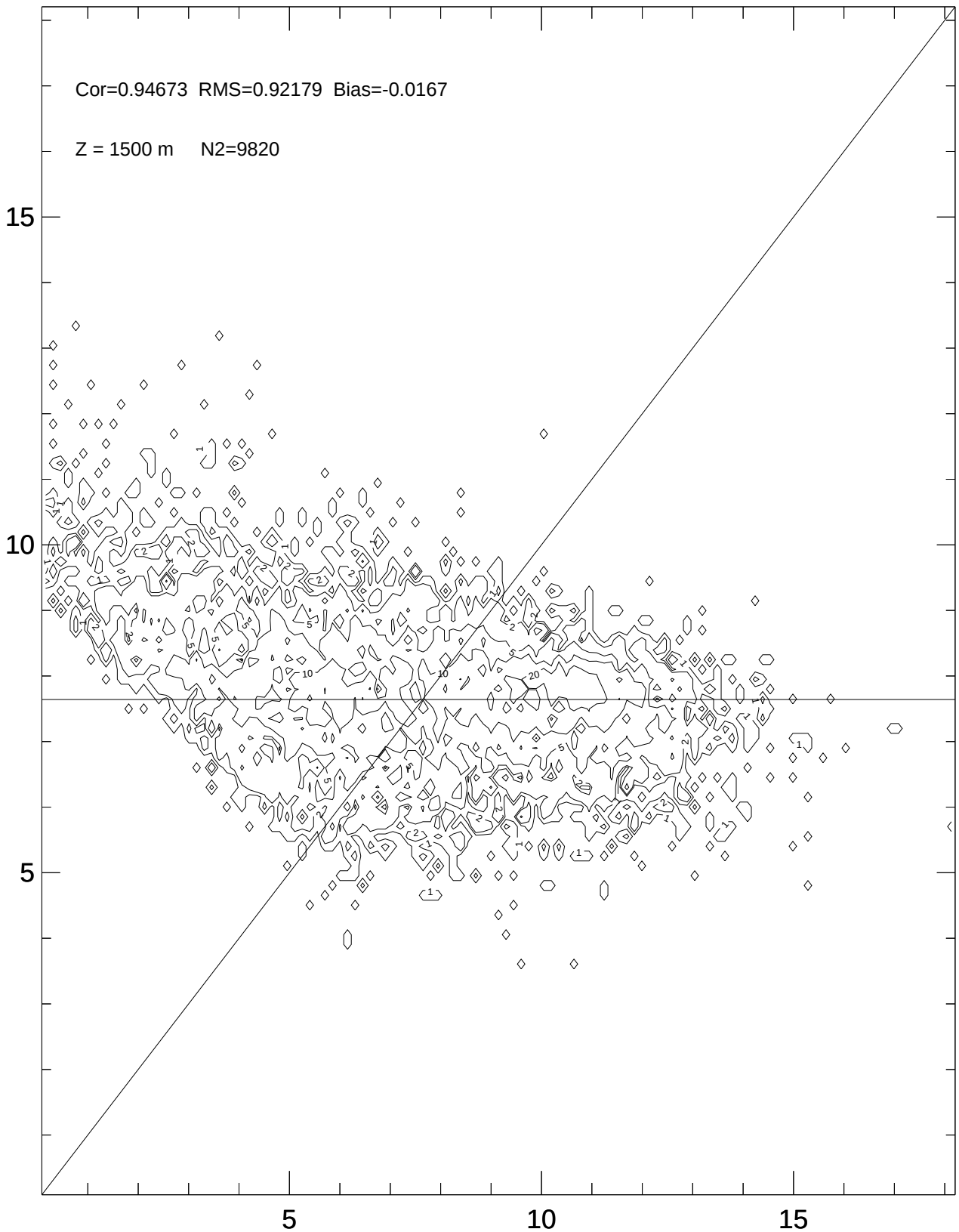

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

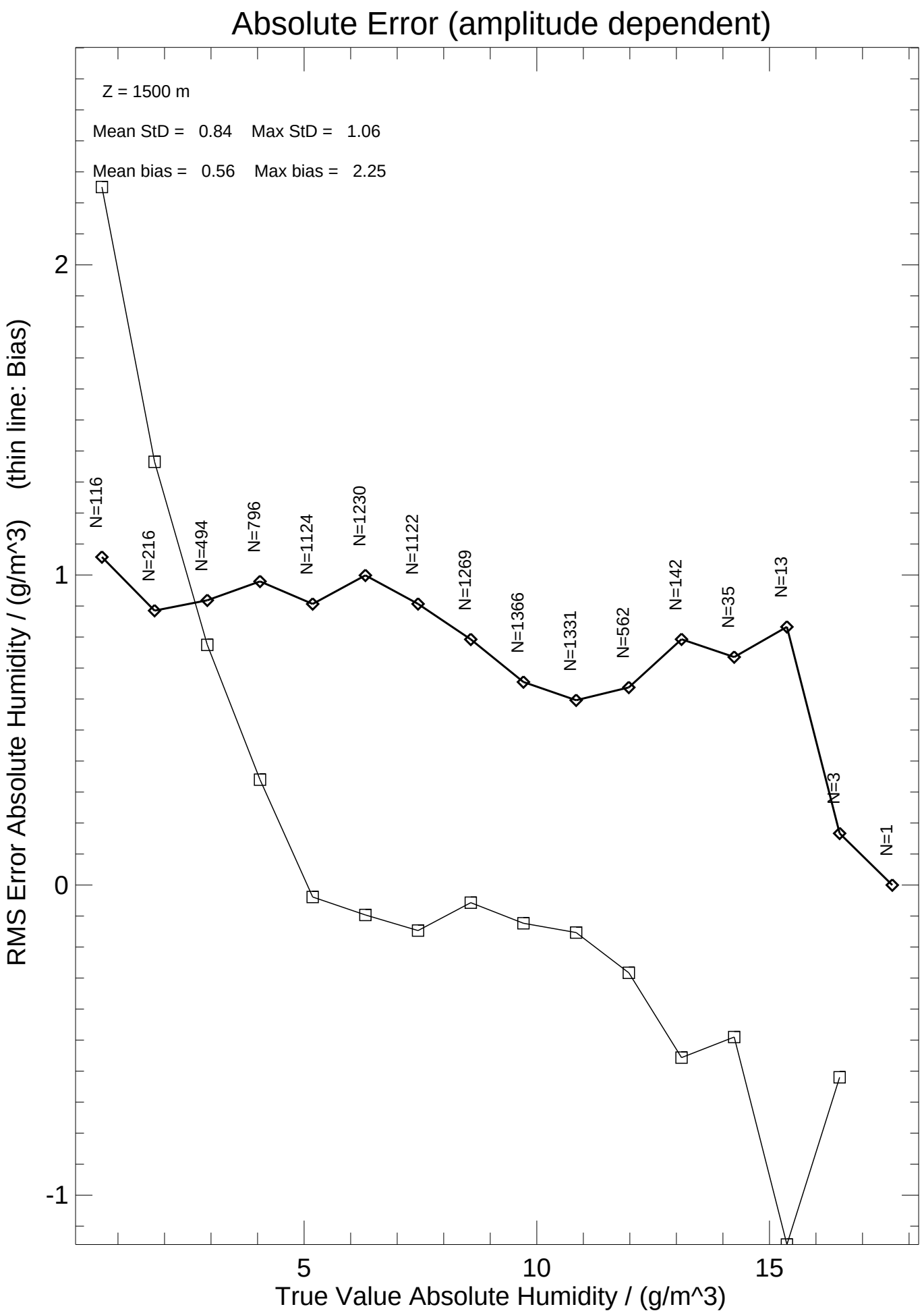

Cor=0.95093 RMS=0.89370 Bias=-0.0191
Z = 1440 m N2=9820
15
10
5
5
10
15

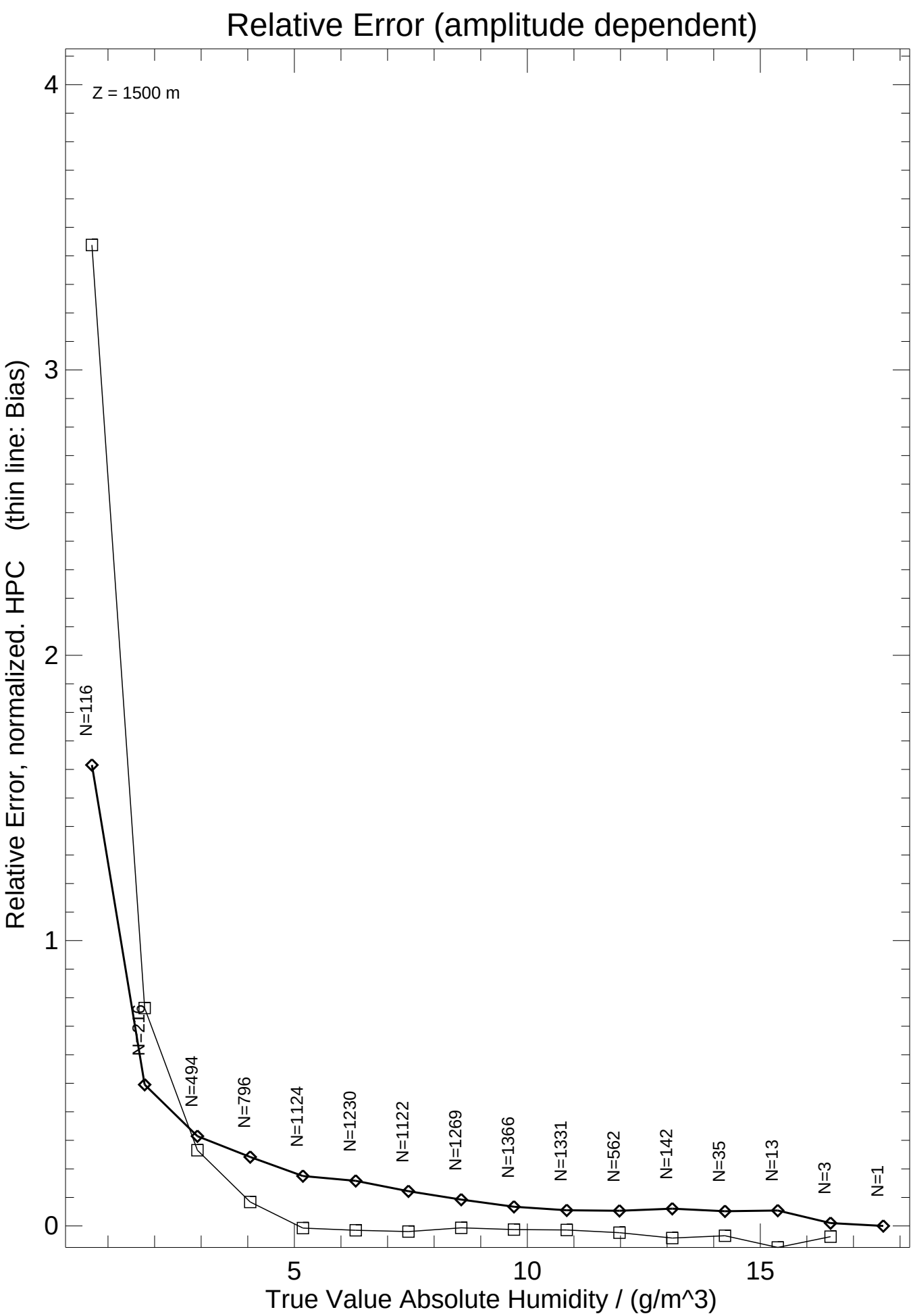

Absolute Error (amplitude dependent)
Z = 1440 m
Mean StD = 0.82 Max StD = 0.96
Mean bias = 0.57 Max bias = 2.24
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
1
0
-1
5
10
15
N=91
N=184
N=469
N=797
N=1106
N=1226
N=1126
N=1244
N=1351
N=1353
N=640
N=171
N=44
N=13
N=2
N=3

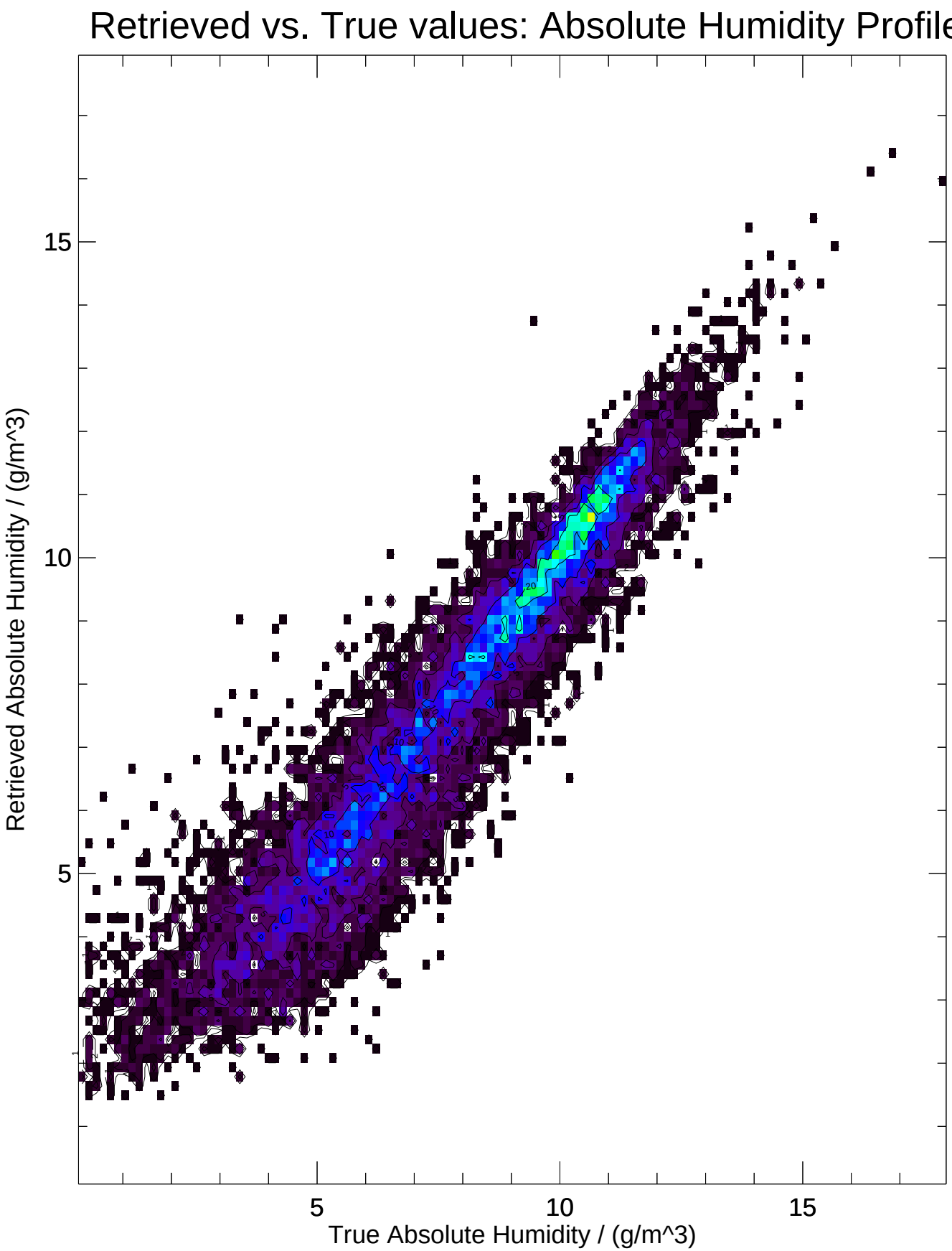

Relative Error (amplitude dependent)
Z = 1440 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
4
5
10
15
N=91
N=184
N=469
N=797
N=1106
N=1226
N=1126
N=1244
N=1351
N=1353
N=640
N=171
N=44
N=13
N=2
N=3

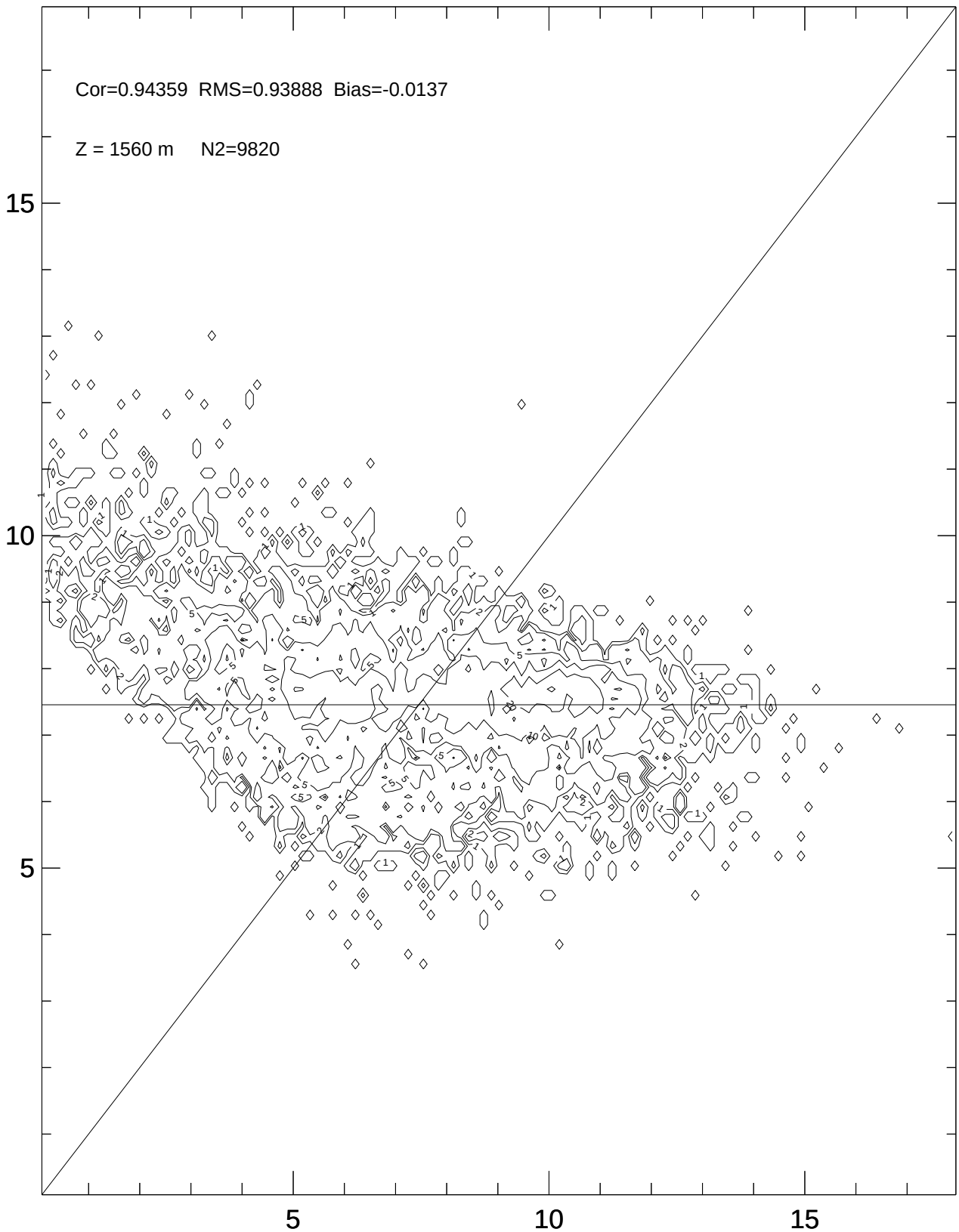

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

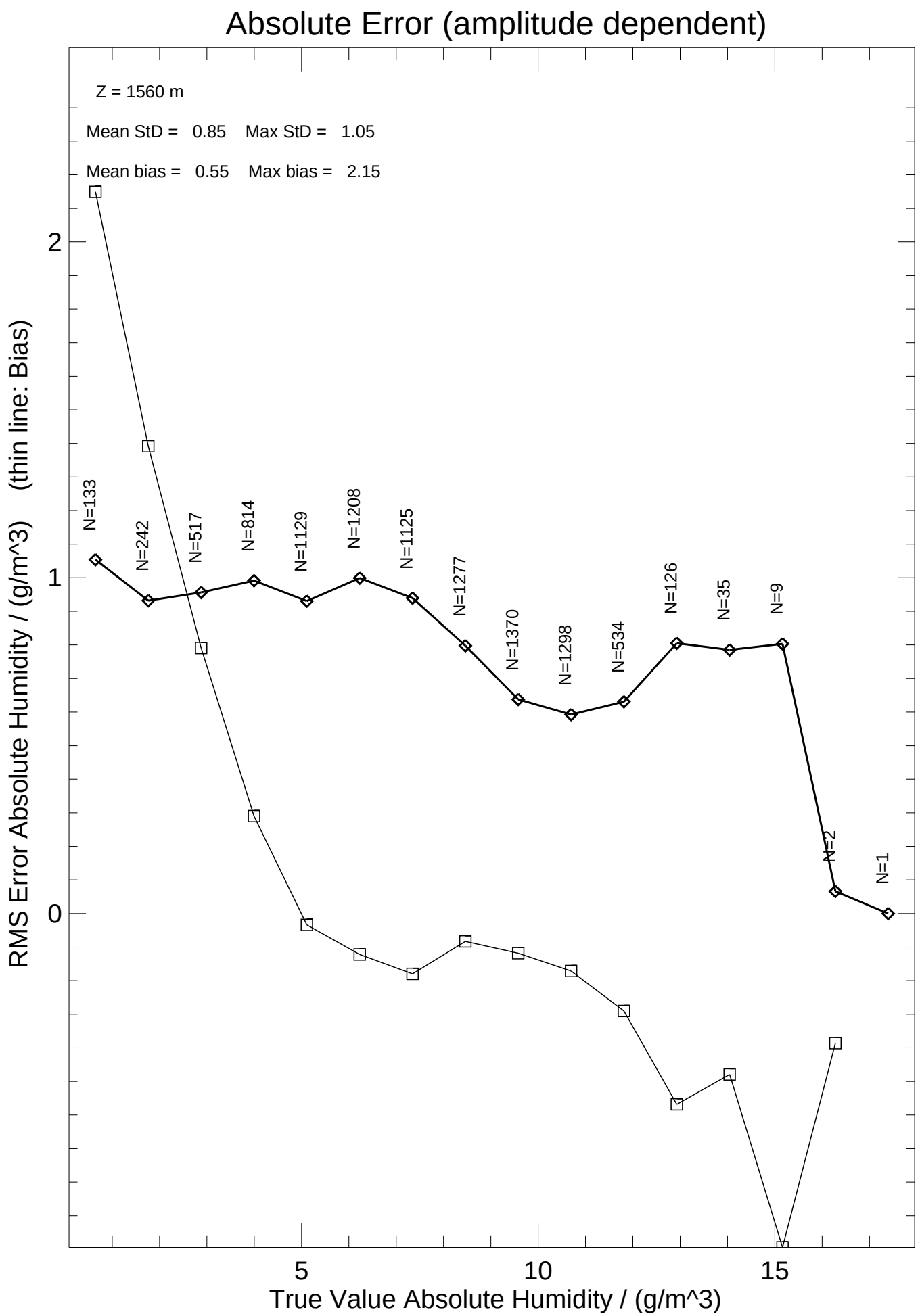

Cor=0.94673 RMS=0.92179 Bias=-0.0167
Z = 1500 m N2=9820
15
10
5
5
10
15

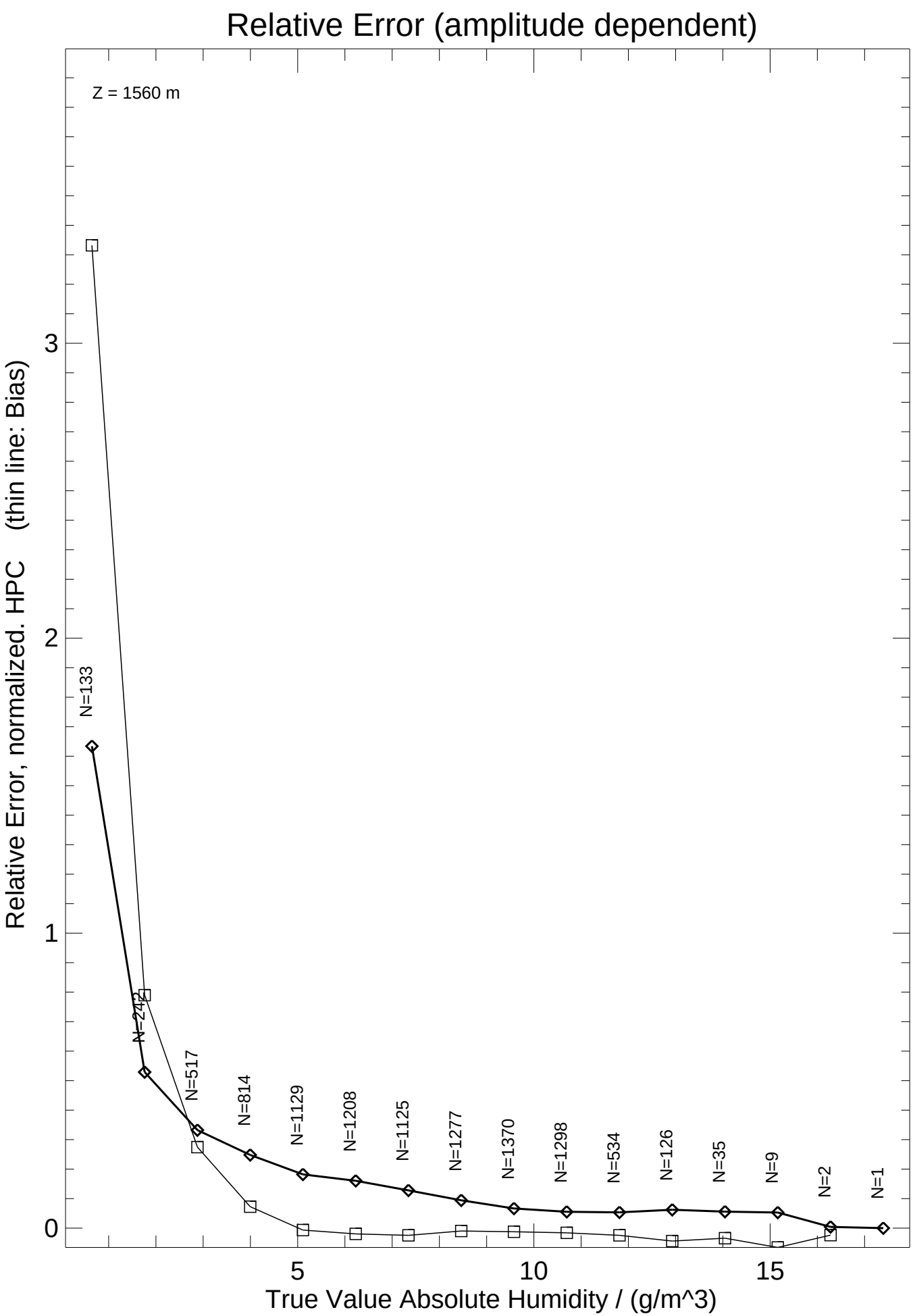

Absolute Error (amplitude dependent)
Z = 1500 m
Mean StD = 0.84 Max StD = 1.06
Mean bias = 0.56 Max bias = 2.25
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
1
0
-1
5
10
15
N=116
N=216
N=494
N=796
N=1124
N=1230
N=1122
N=1269
N=1366
N=1331
N=562
N=142
N=35
N=13
N=3
N=1

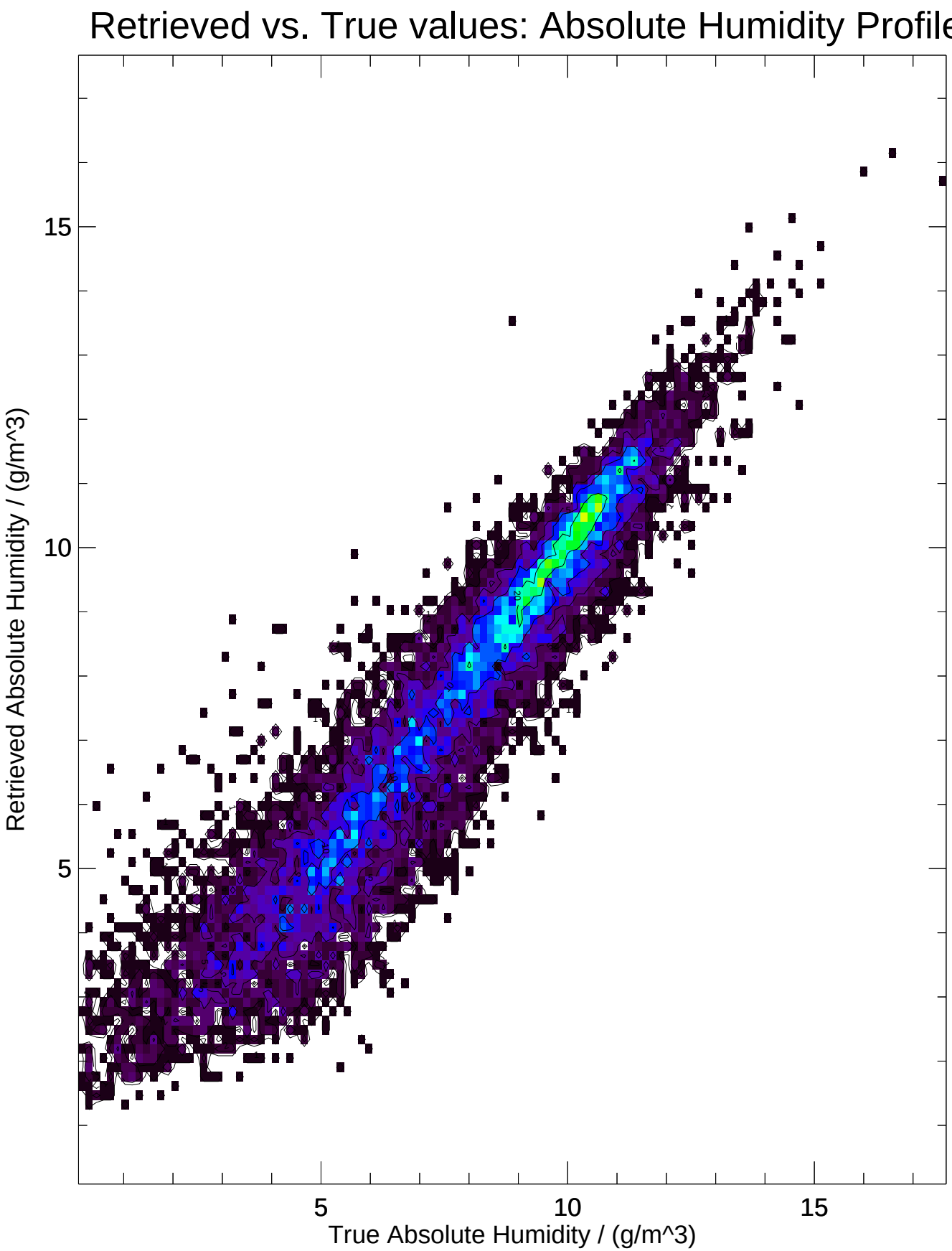

Relative Error (amplitude dependent)
Z = 1500 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
4
5
10
15
N=116
N=216
N=494
N=796
N=1124
N=1230
N=1122
N=1269
N=1366
N=1331
N=562
N=142
N=35
N=13
N=3
N=1

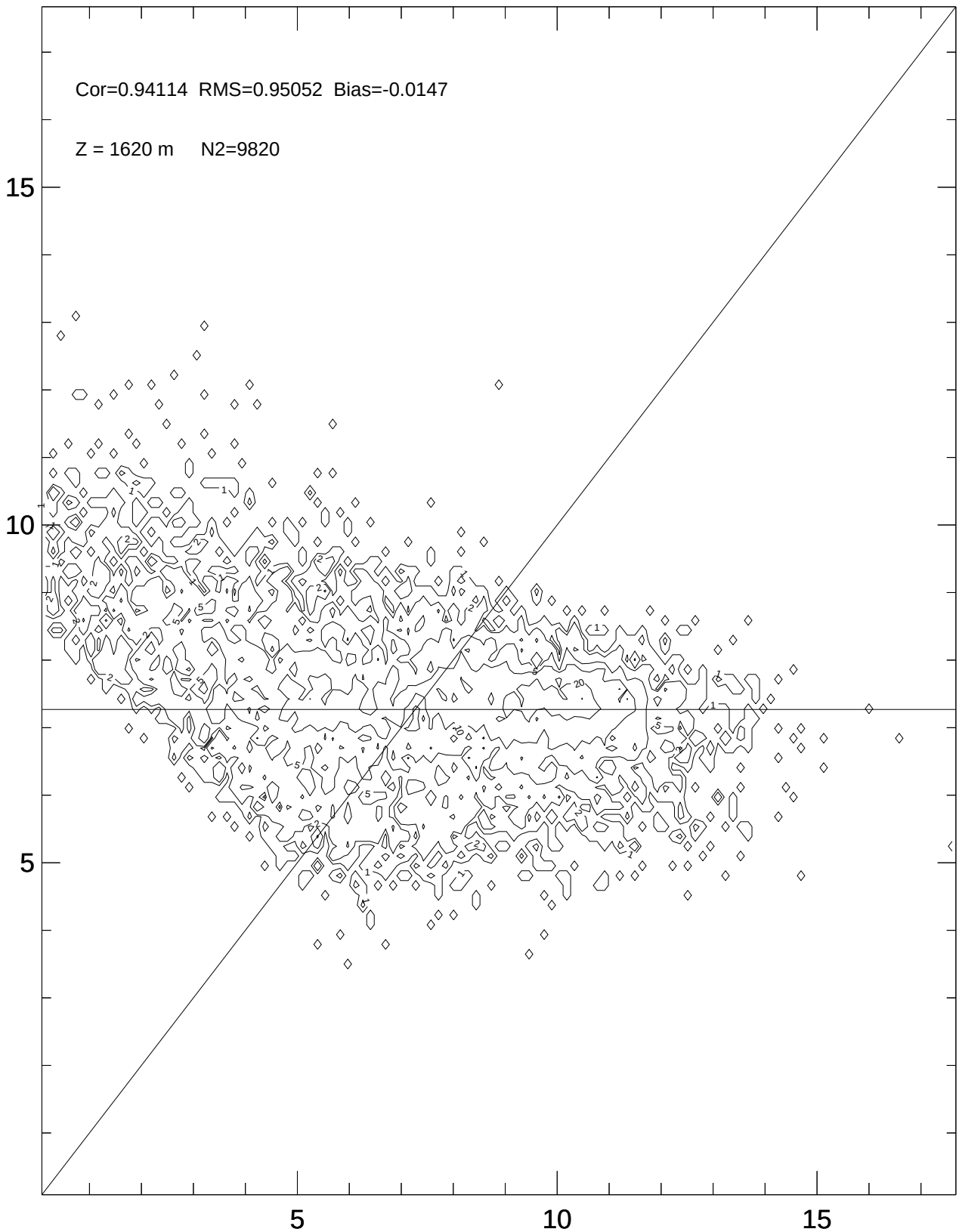

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

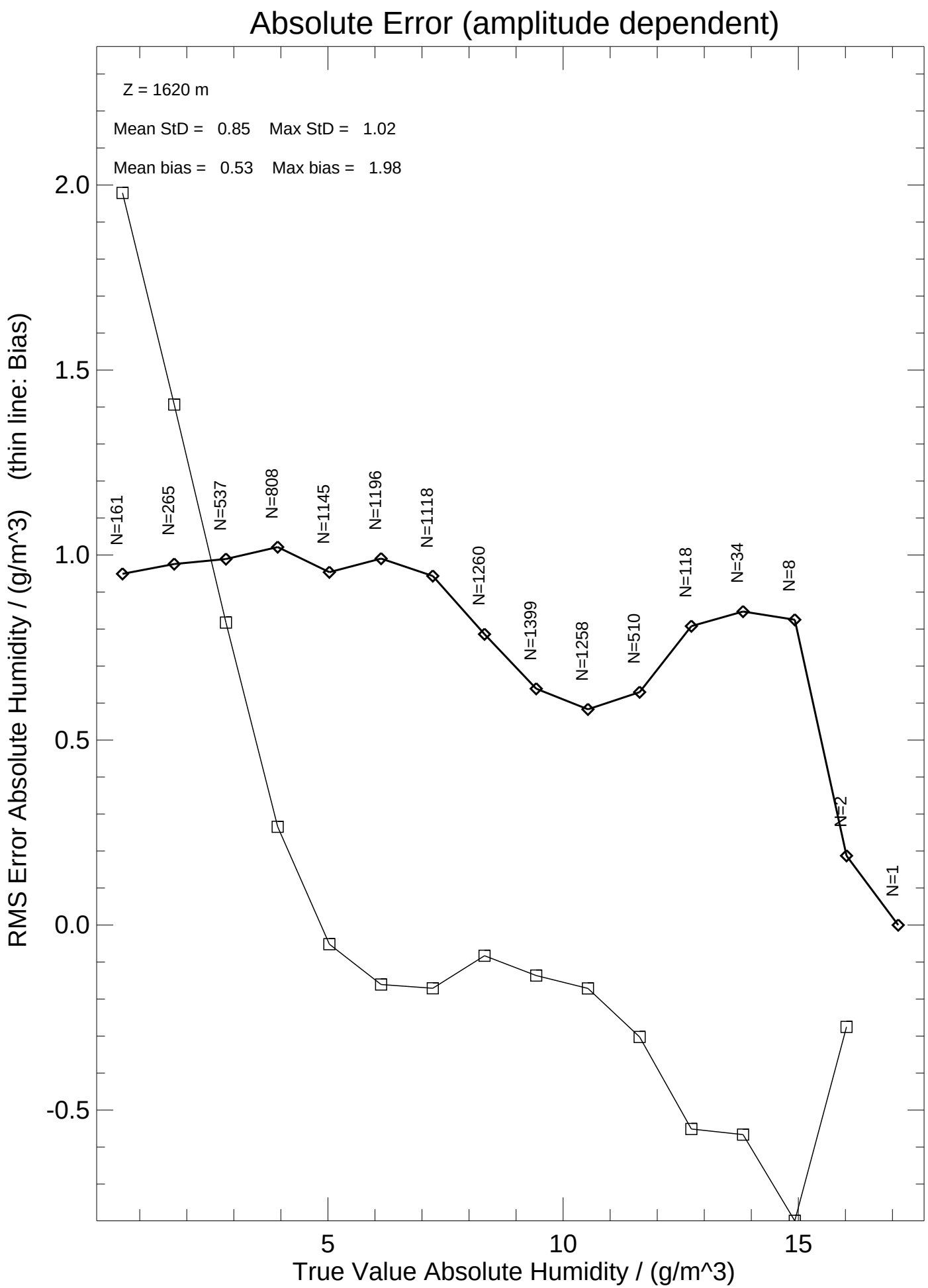

Cor=0.94359 RMS=0.93888 Bias=-0.0137
Z = 1560 m N2=9820
15
10
5
5
10
15

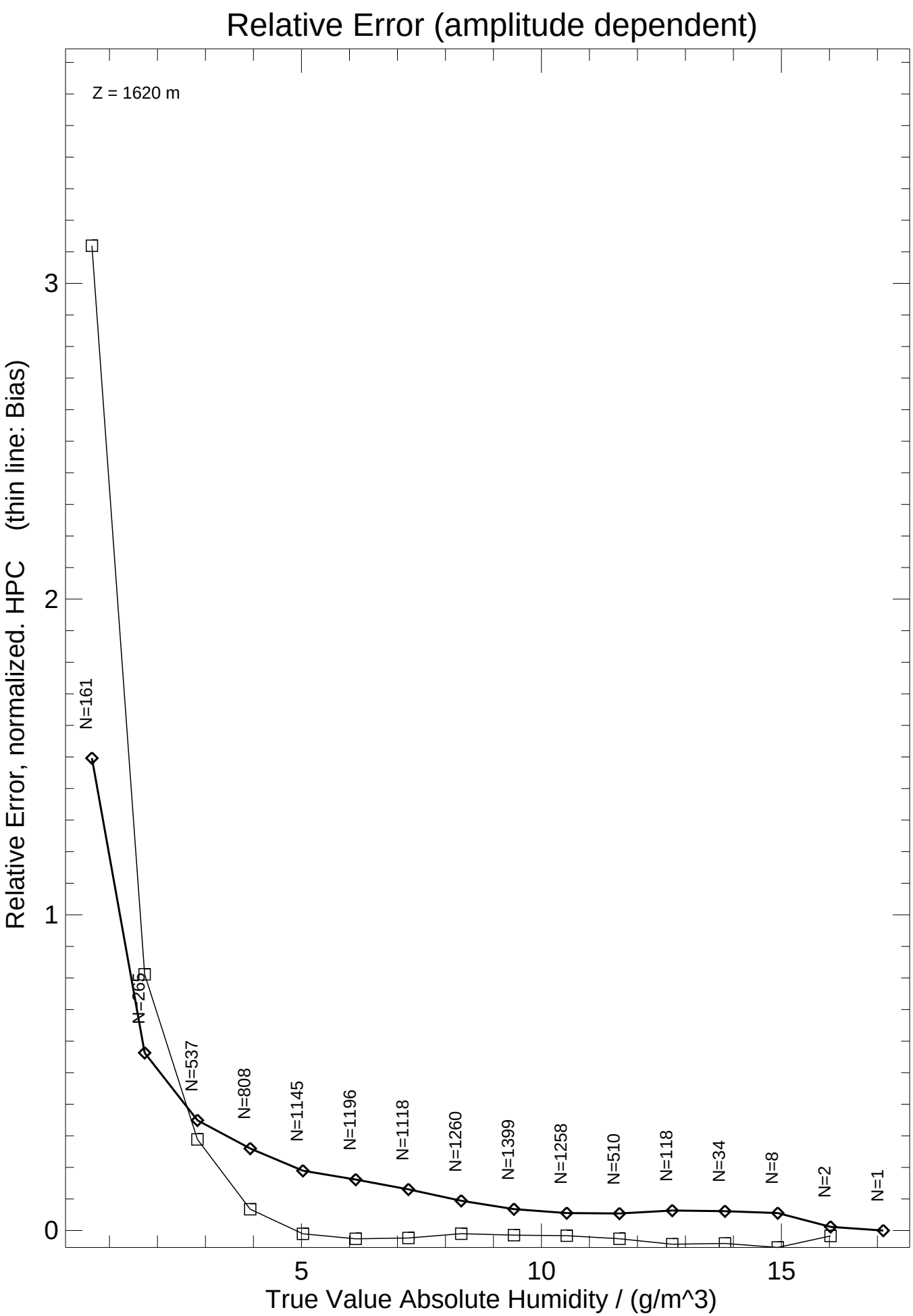

Absolute Error (amplitude dependent)
Z = 1560 m
Mean StD = 0.85 Max StD = 1.05
Mean bias = 0.55 Max bias = 2.15
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2
1
0
5
10
15
N=133
N=242
N=517
N=814
N=1129
N=1208
N=1125
N=1277
N=1370
N=1298
N=534
N=126
N=35
N=9
N=2
N=1

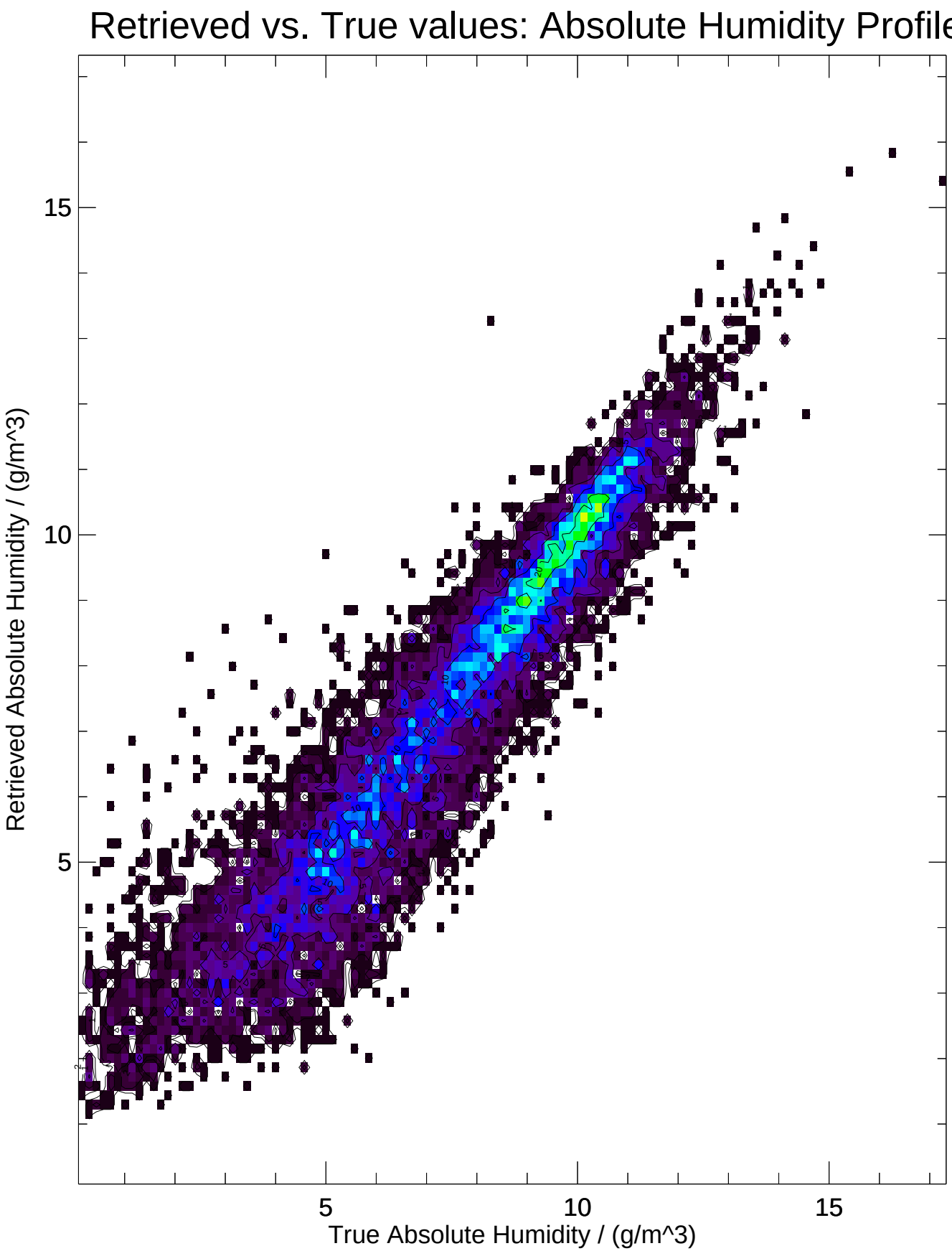

Relative Error (amplitude dependent)
Z = 1560 m
Relative Error, normalized. HPC (thin line: Bias)
0
1
2
3
N=133
N=242
N=517
N=814
N=1129
N=1208
N=1125
N=1277
N=1370
N=1298
N=534
N=126
N=35
N=9
N=2
N=1
5
10
15
True Value Absolute Humidity / (g/m^3)

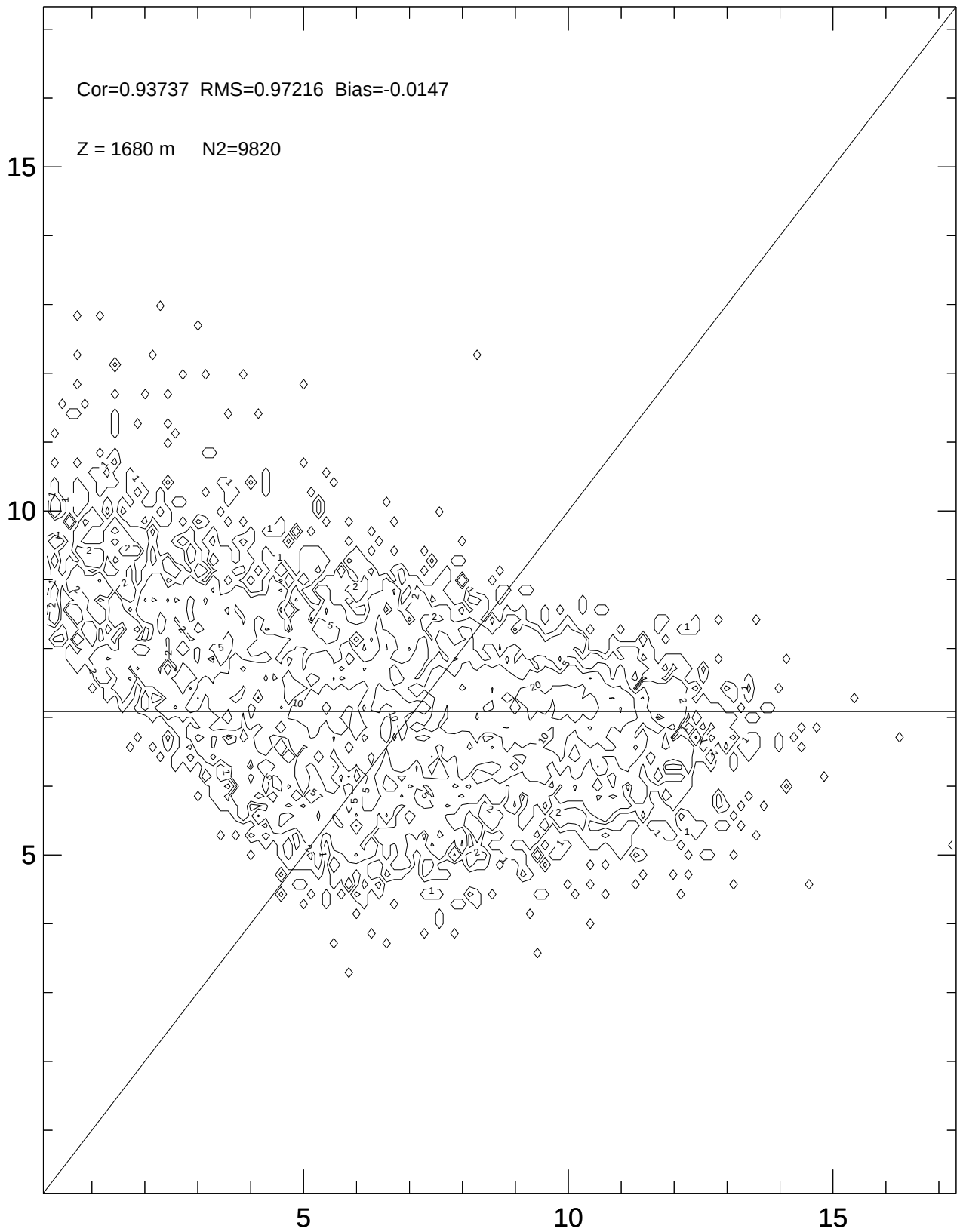

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

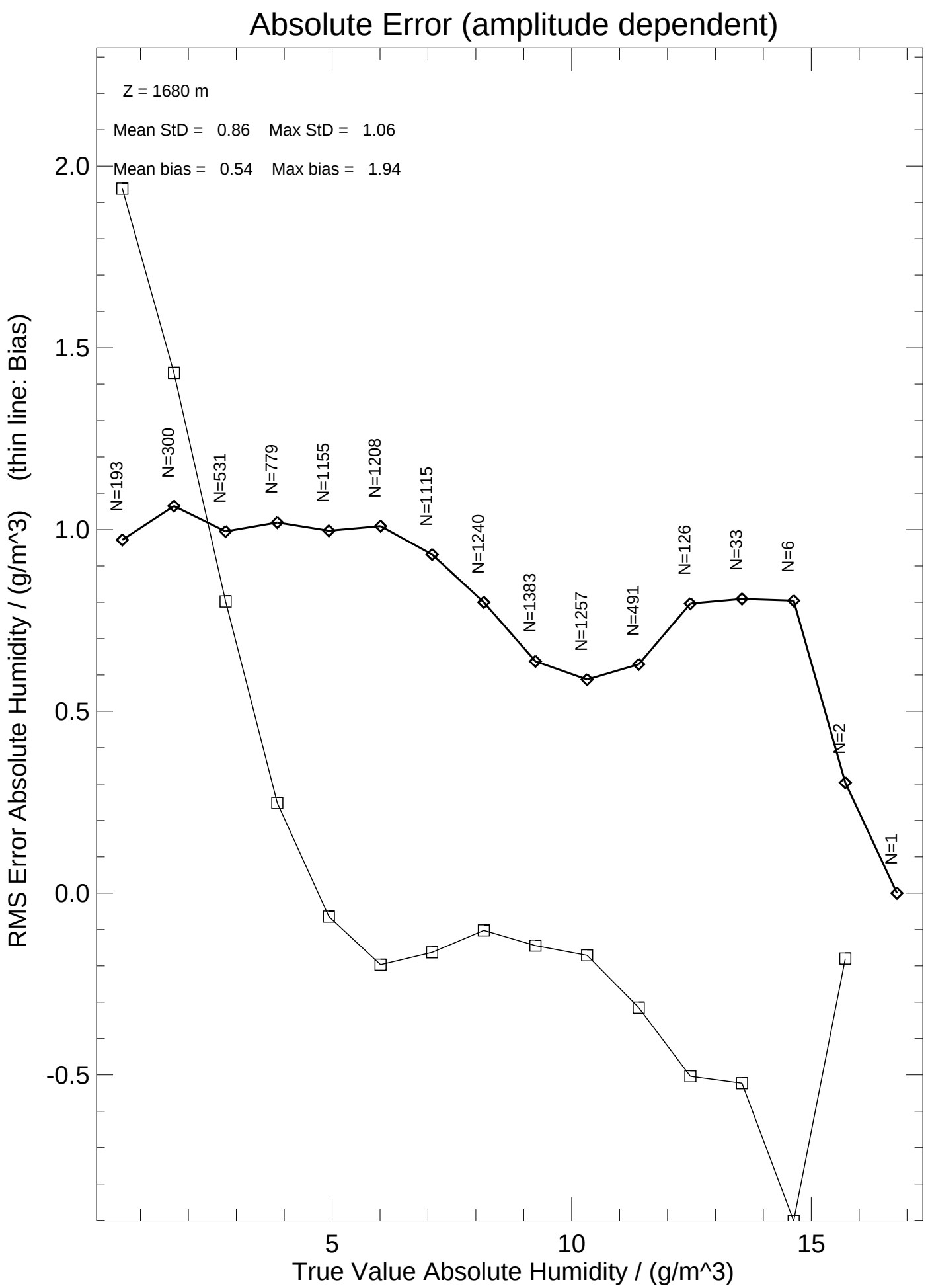

Cor=0.94114 RMS=0.95052 Bias=-0.0147
Z = 1620 m N2=9820
15
10
5
5
10
15

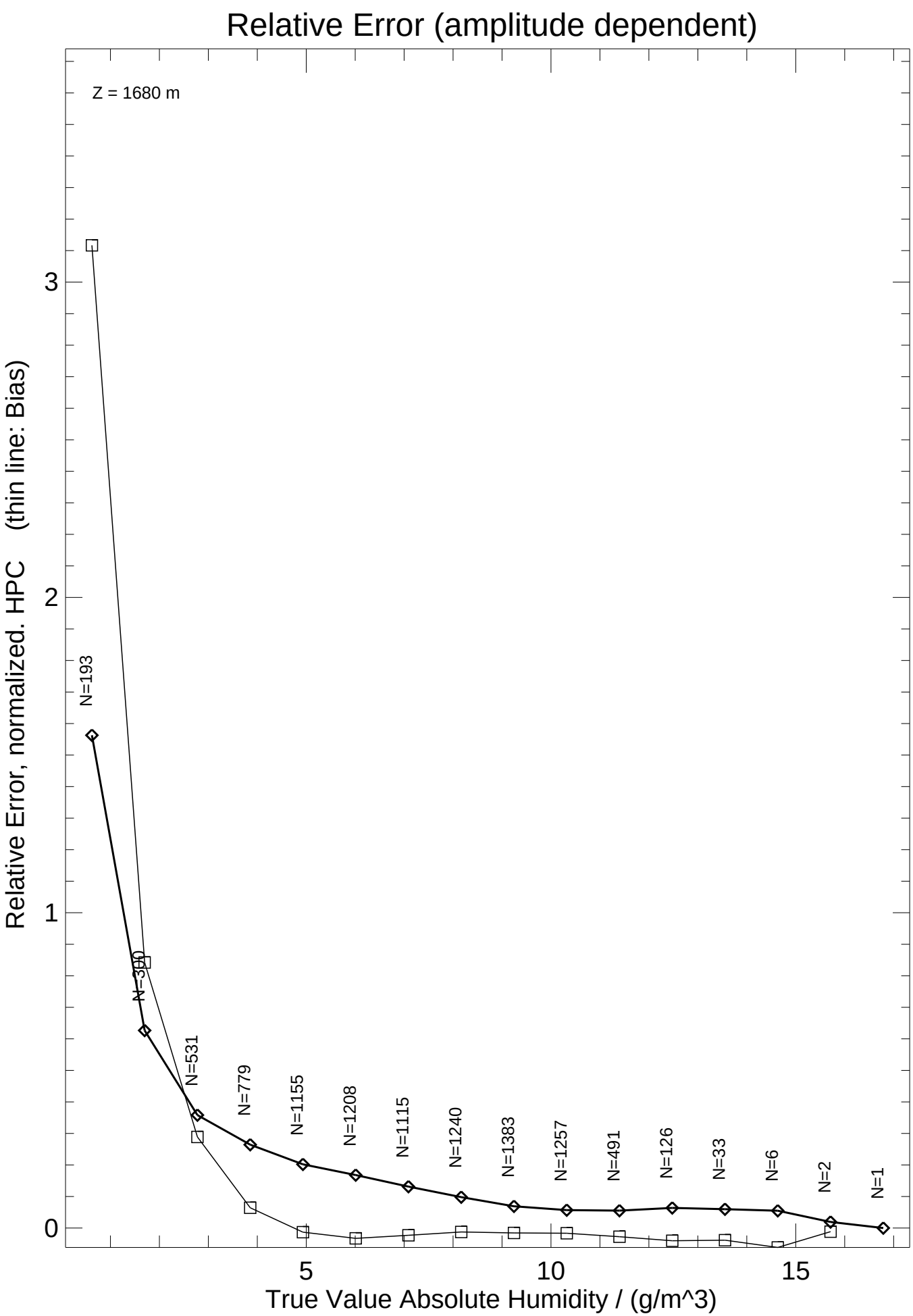

Absolute Error (amplitude dependent)
Z = 1620 m
Mean StD = 0.85 Max StD = 1.02
Mean bias = 0.53 Max bias = 1.98
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2.0
1.5
1.0
0.5
0.0
-0.5
5
10
15
N=161
N=265
N=537
N=808
N=1145
N=1196
N=1118
N=1260
N=1399
N=1258
N=510
N=118
N=34
N=8
N=2
N=1

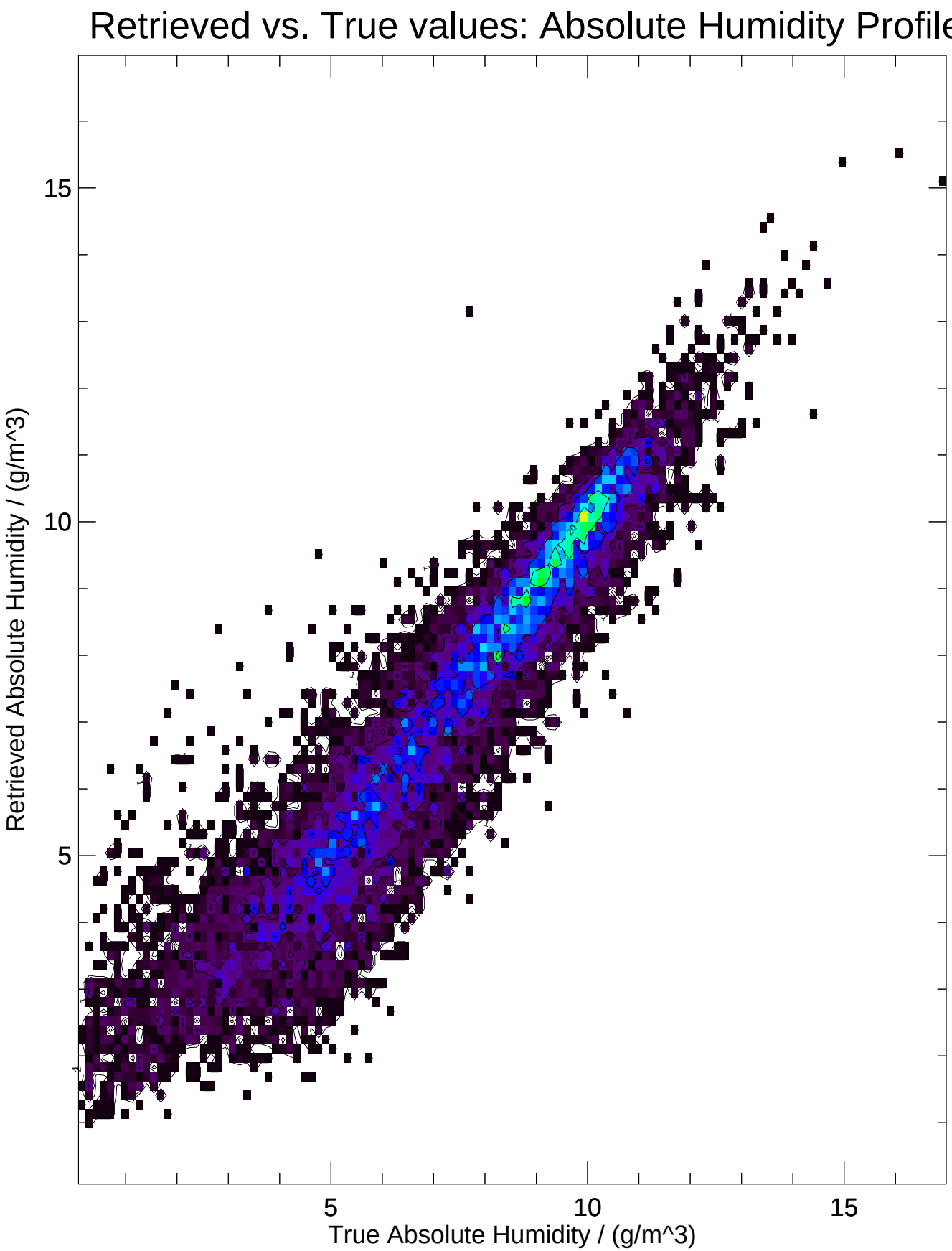

Relative Error (amplitude dependent)
Z = 1620 m
Relative Error, normalized. HPC (thin line: Bias)
0
1
2
3
5
10
15
True Value Absolute Humidity / (g/m^3)
N=161
N=265
N=537
N=808
N=1145
N=1196
N=1118
N=1260
N=1399
N=1258
N=510
N=118
N=34
N=8
N=2
N=1

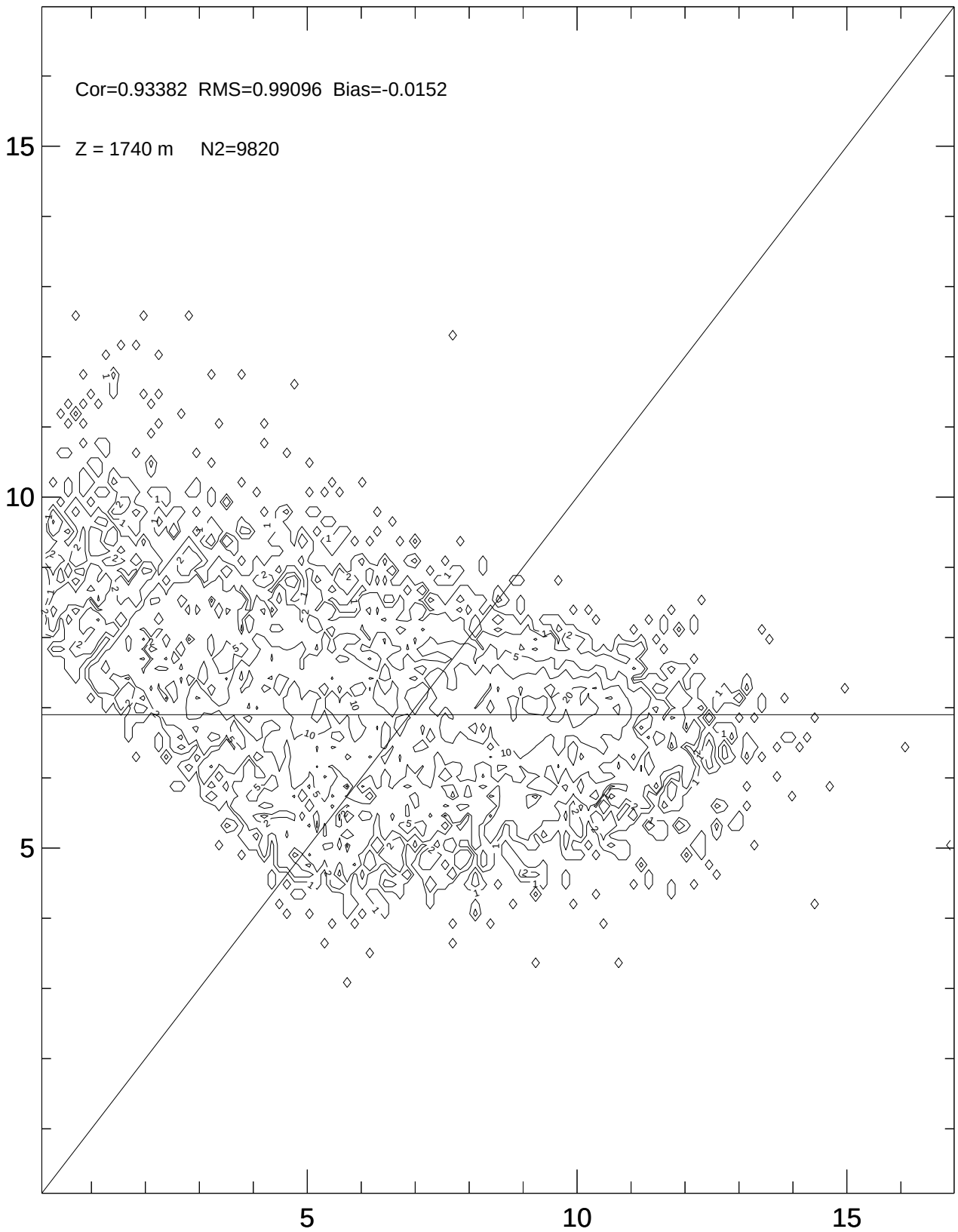

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

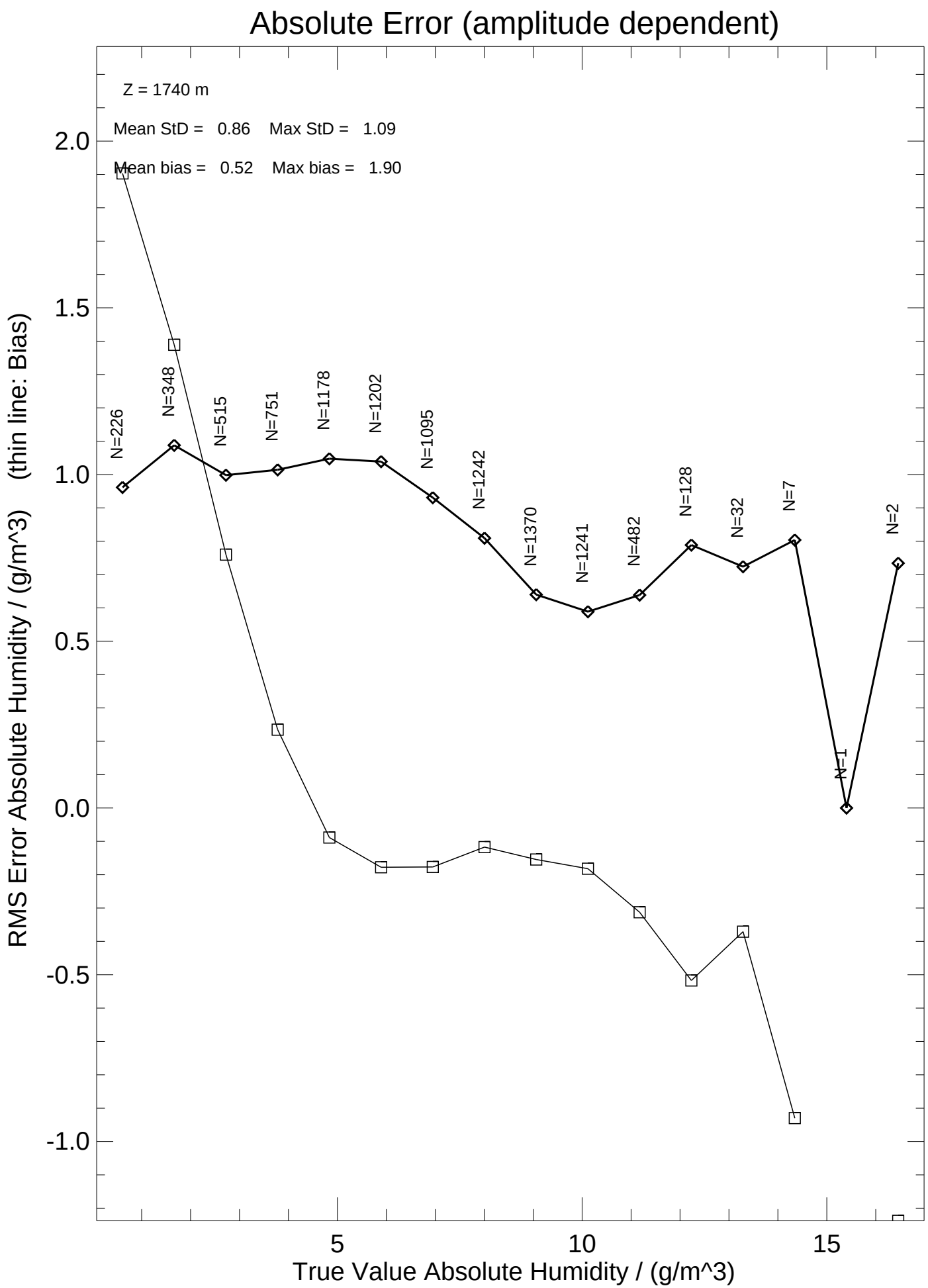

Cor=0.93737 RMS=0.97216 Bias=-0.0147
Z = 1680 m N2=9820
15
10
5
5
10
15

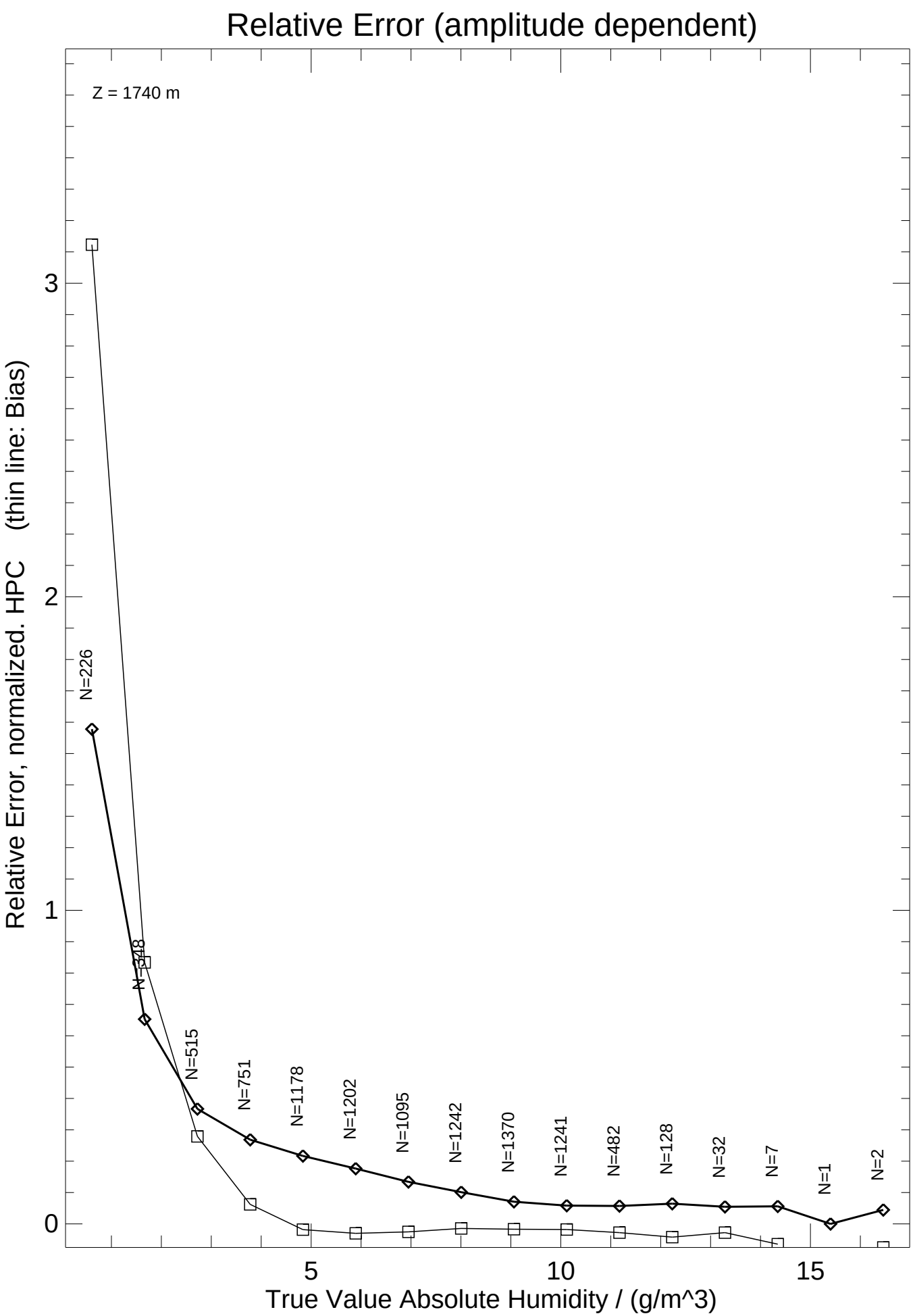

Absolute Error (amplitude dependent)
Z = 1680 m
Mean StD = 0.86 Max StD = 1.06
Mean bias = 0.54 Max bias = 1.94
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2.0
1.5
1.0
0.5
0.0
-0.5
5
10
15
N=193
N=300
N=531
N=779
N=1155
N=1208
N=1115
N=1240
N=1383
N=1257
N=491
N=126
N=33
N=6
N=2
N=1

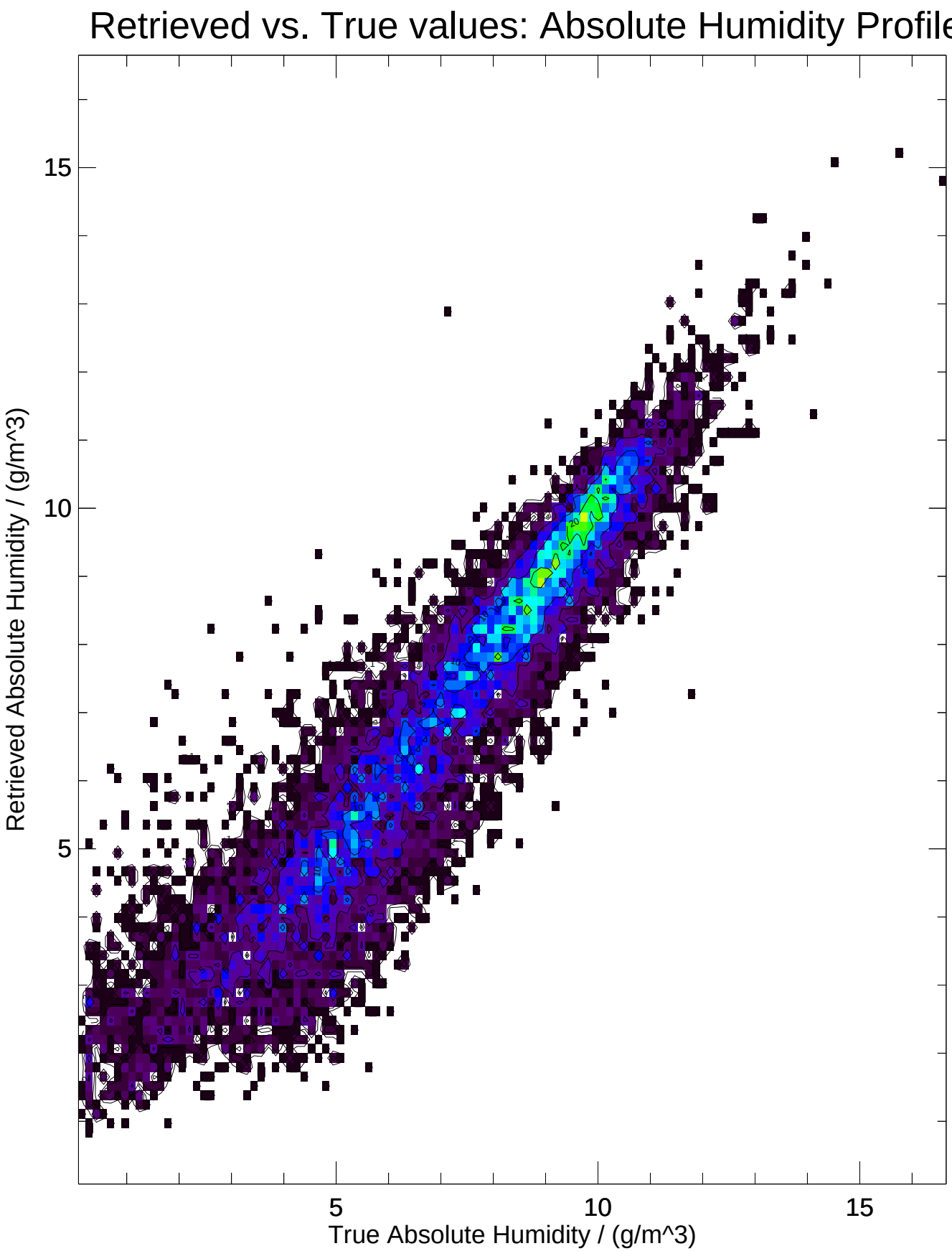

Relative Error (amplitude dependent)
Z = 1680 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
5
10
15
N=193
N=390
N=531
N=779
N=1155
N=1208
N=1115
N=1240
N=1383
N=1257
N=491
N=126
N=33
N=6
N=2
N=1

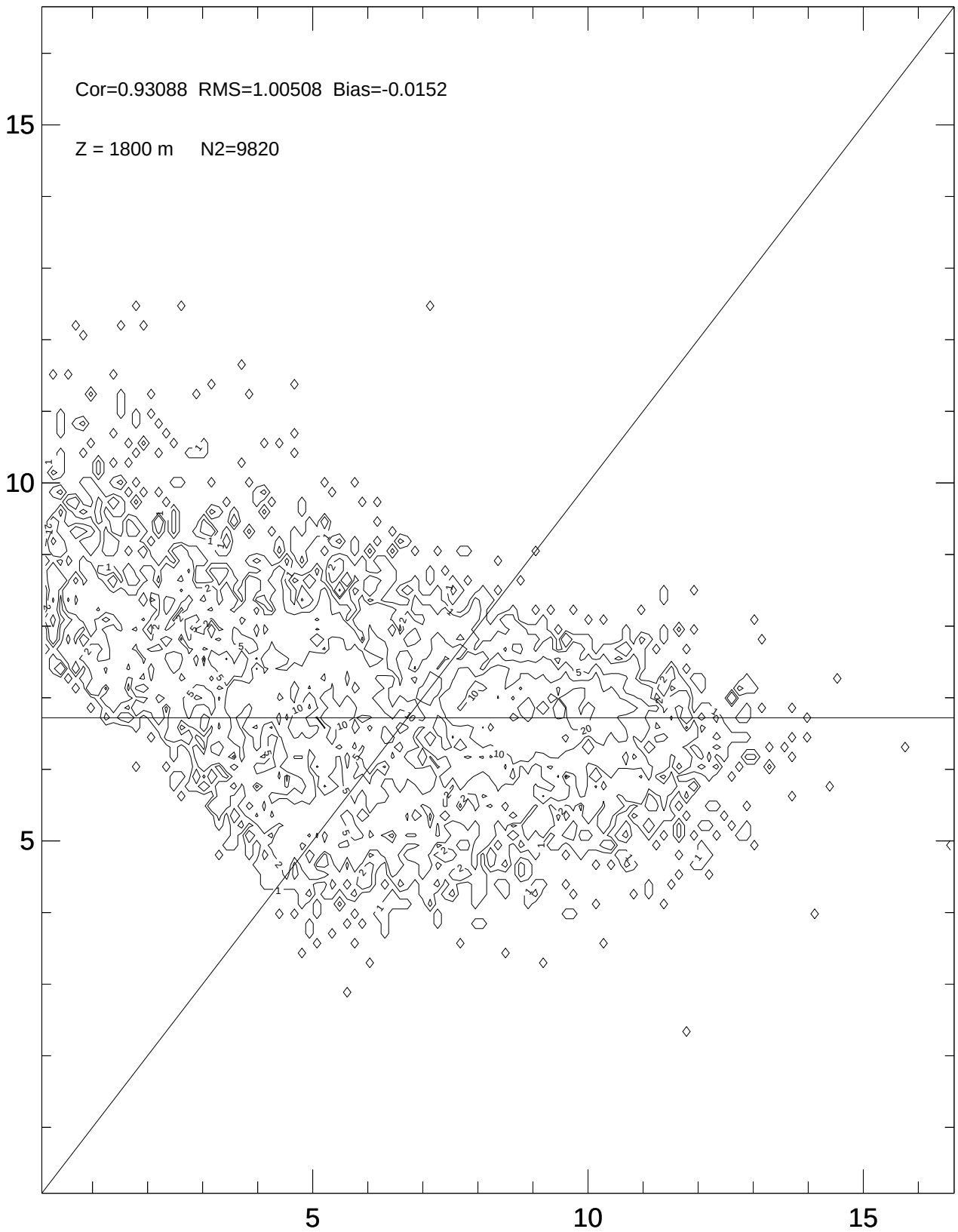

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

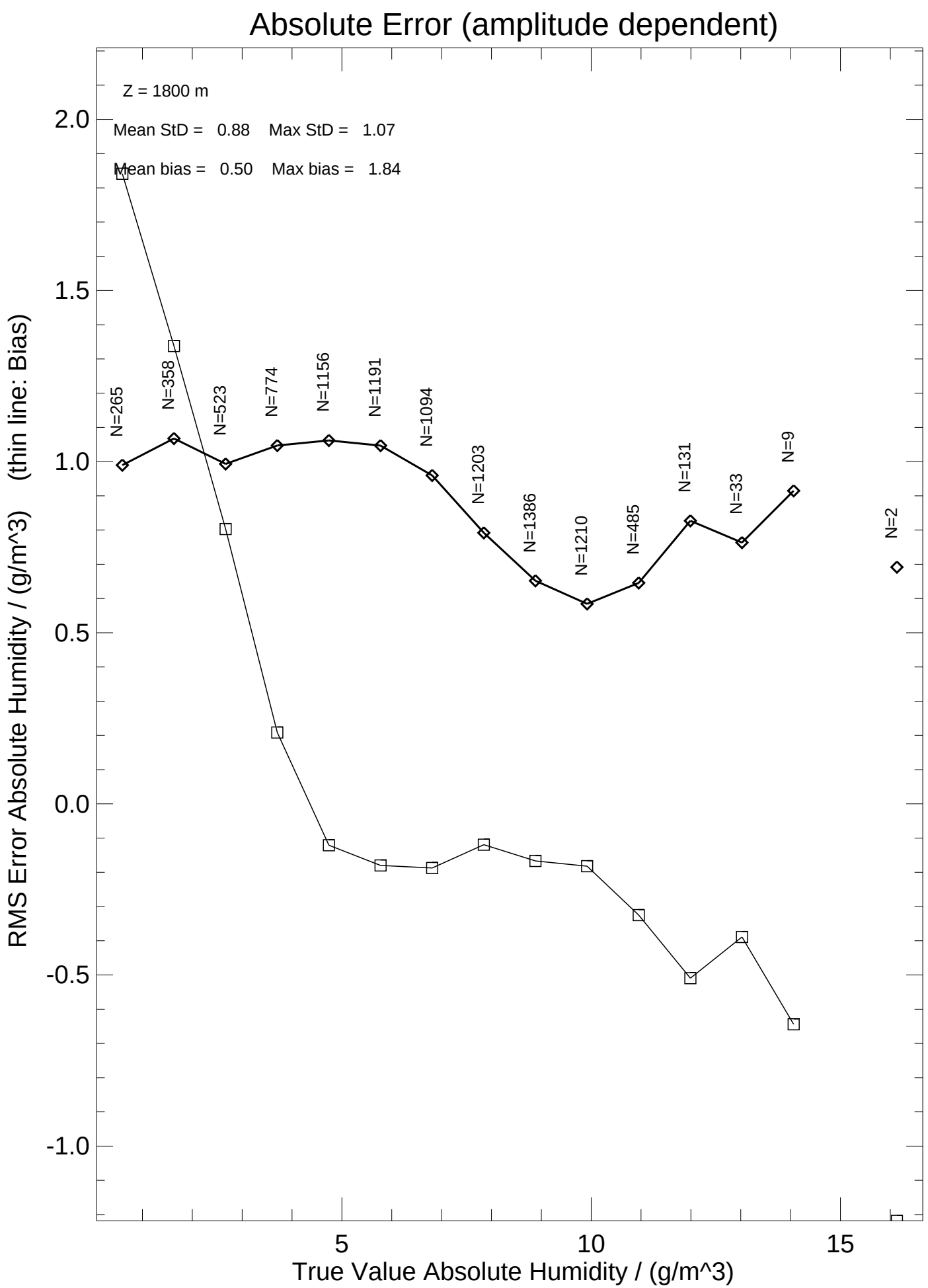

Cor=0.93382 RMS=0.99096 Bias=-0.0152
Z = 1740 m N2=9820
15
10
5
5
10
15

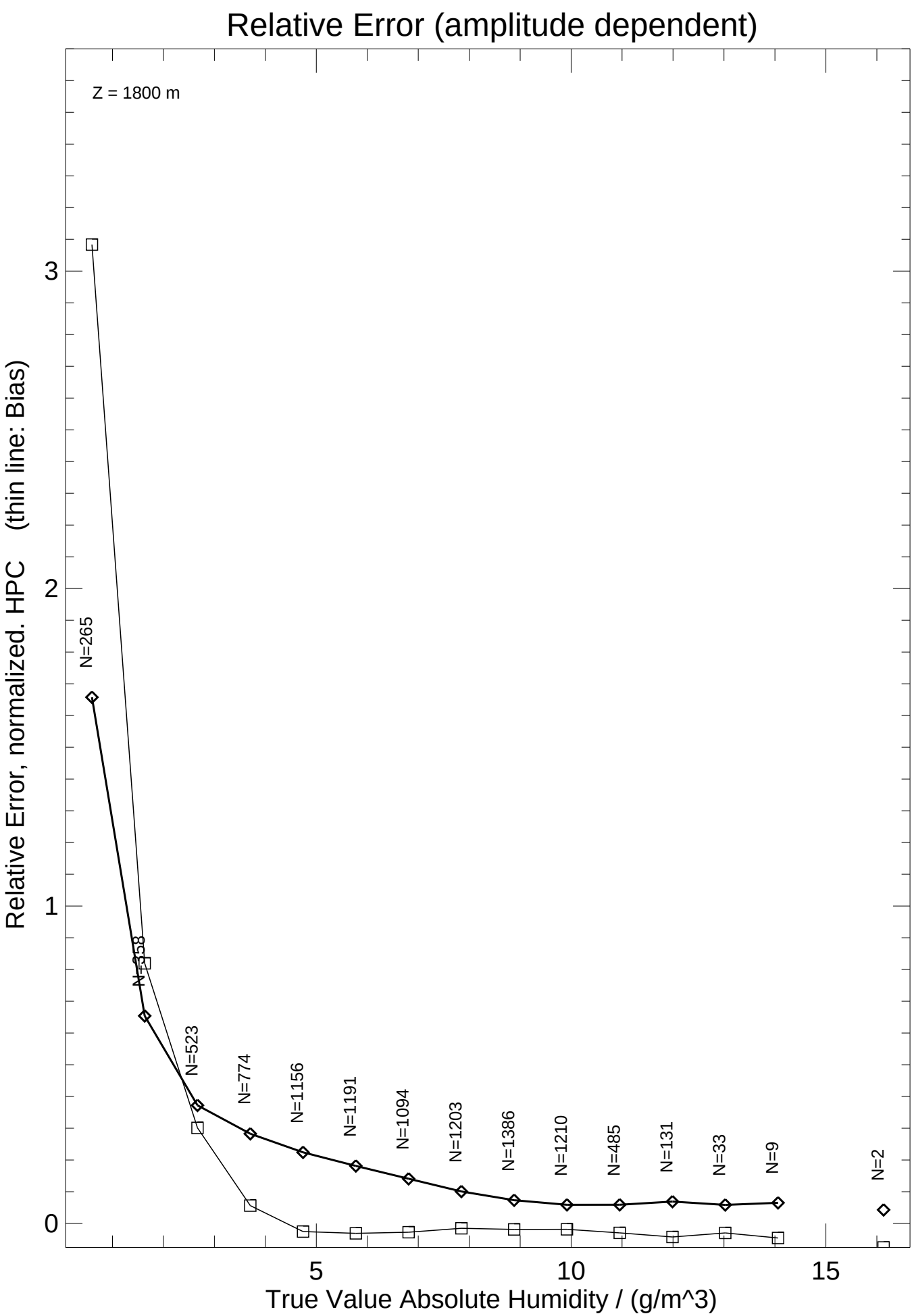

Absolute Error (amplitude dependent)
Z = 1740 m
Mean StD = 0.86 Max StD = 1.09
Mean bias = 0.52 Max bias = 1.90
N=226
N=348
N=515
N=751
N=1178
N=1202
N=1095
N=1242
N=1370
N=1241
N=482
N=128
N=32
N=7
N=1
N=2
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
5
10
15
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

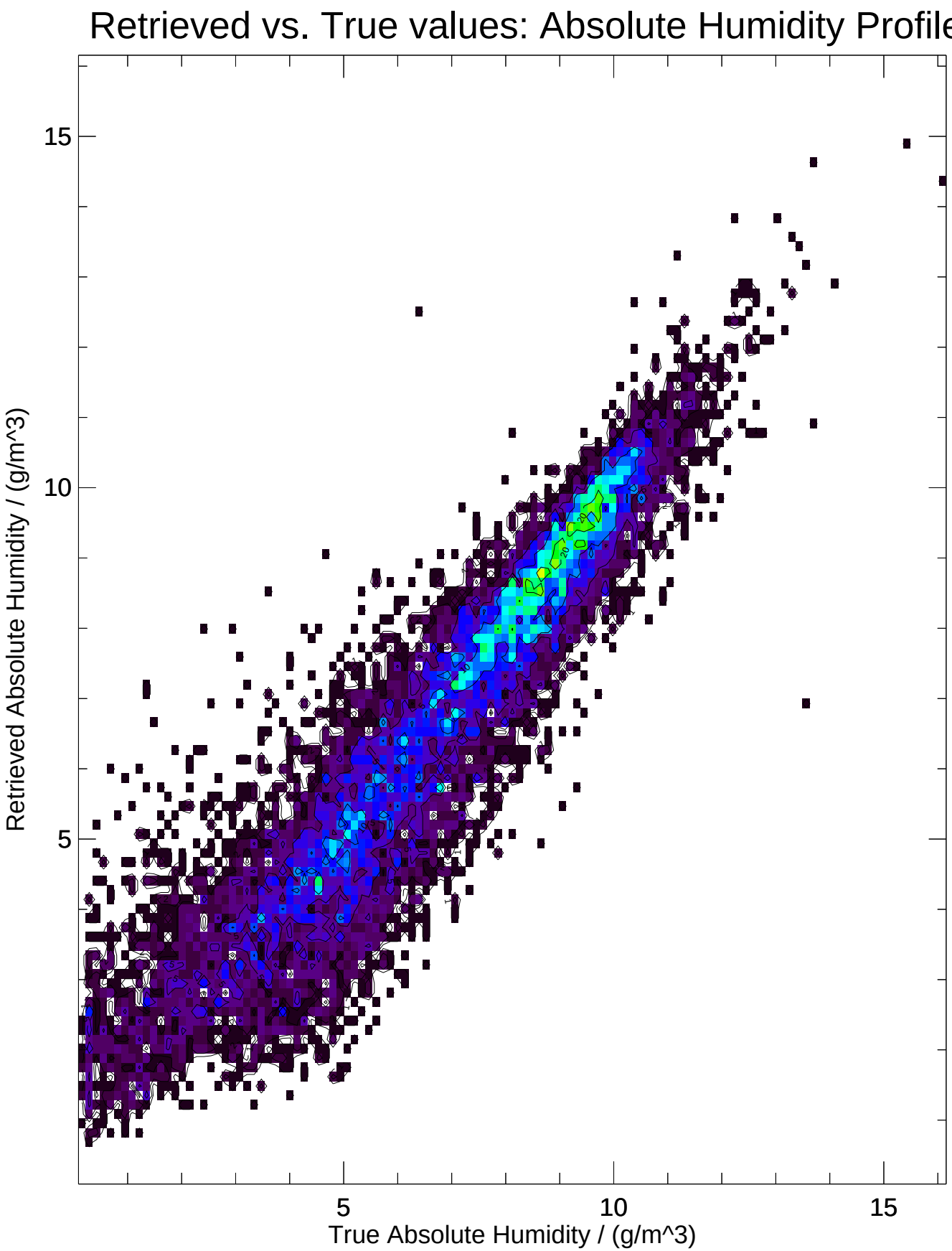

Relative Error (amplitude dependent)
Z = 1740 m
Relative Error, normalized. HPC (thin line: Bias)
0
1
2
3
5
10
15
True Value Absolute Humidity / (g/m^3)
N=226
N=348
N=515
N=751
N=1178
N=1202
N=1095
N=1242
N=1370
N=1241
N=482
N=128
N=32
N=7
N=1
N=2

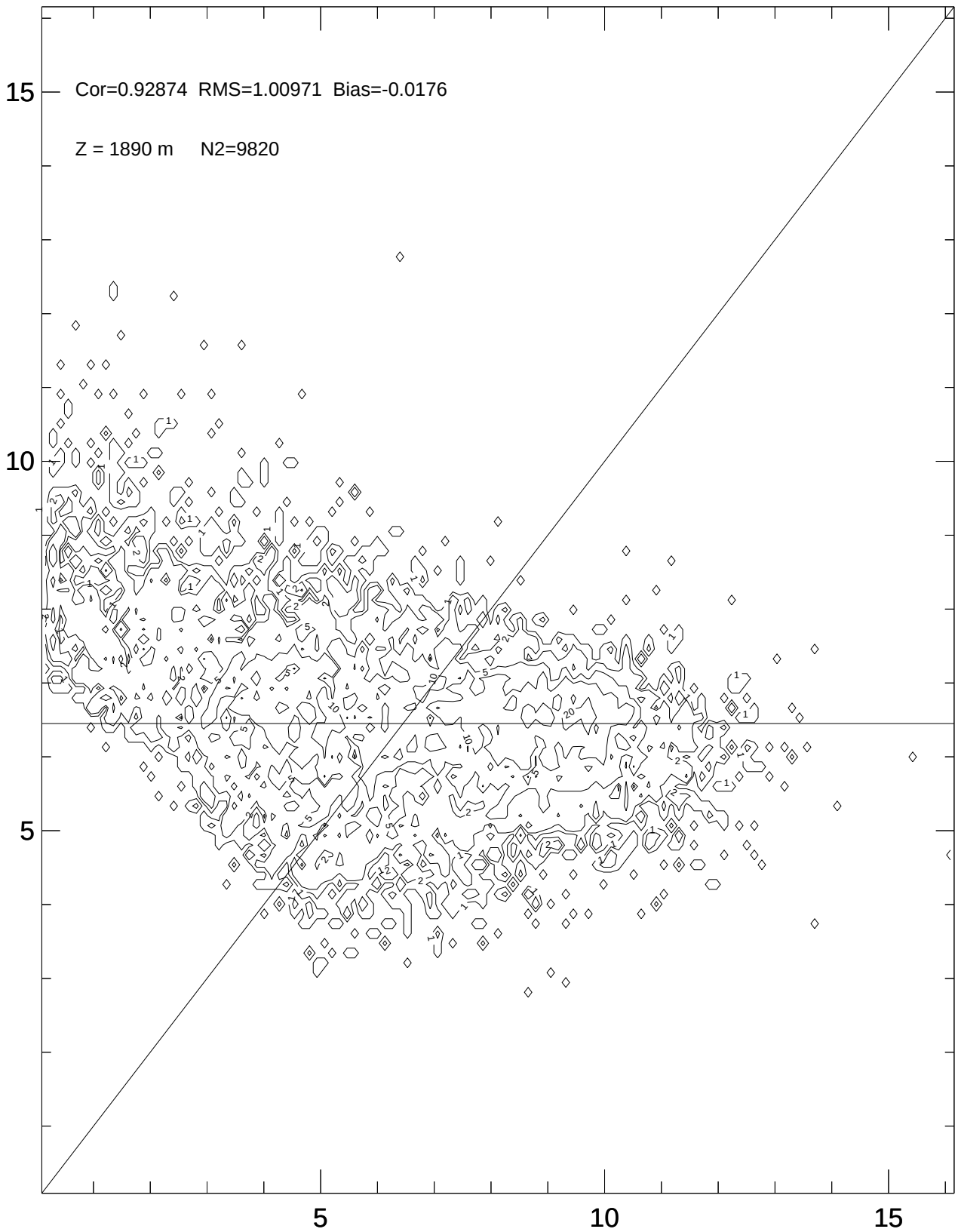

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

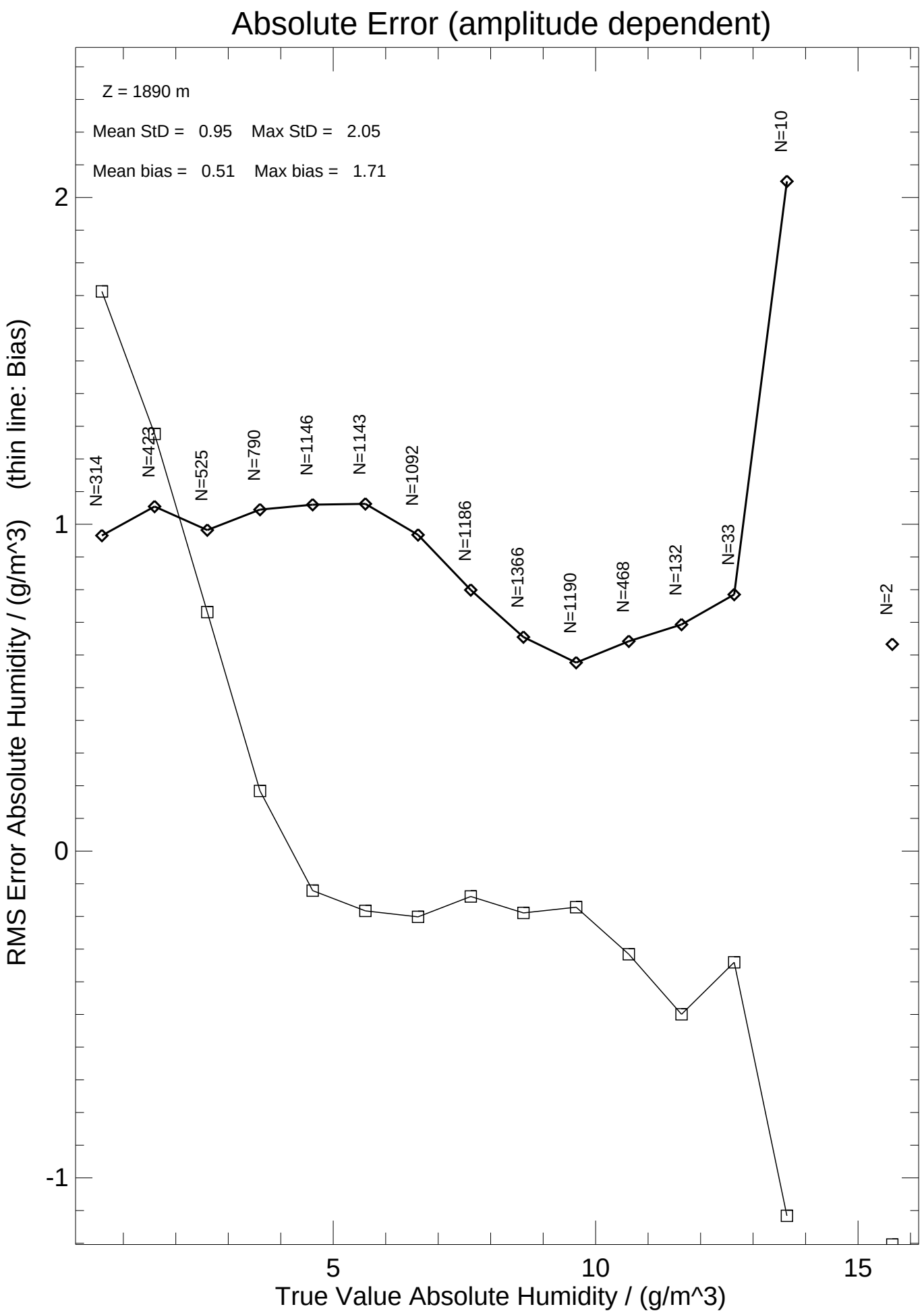

Cor=0.93088 RMS=1.00508 Bias=-0.0152
Z = 1800 m N2=9820
15
10
5
5
10
15

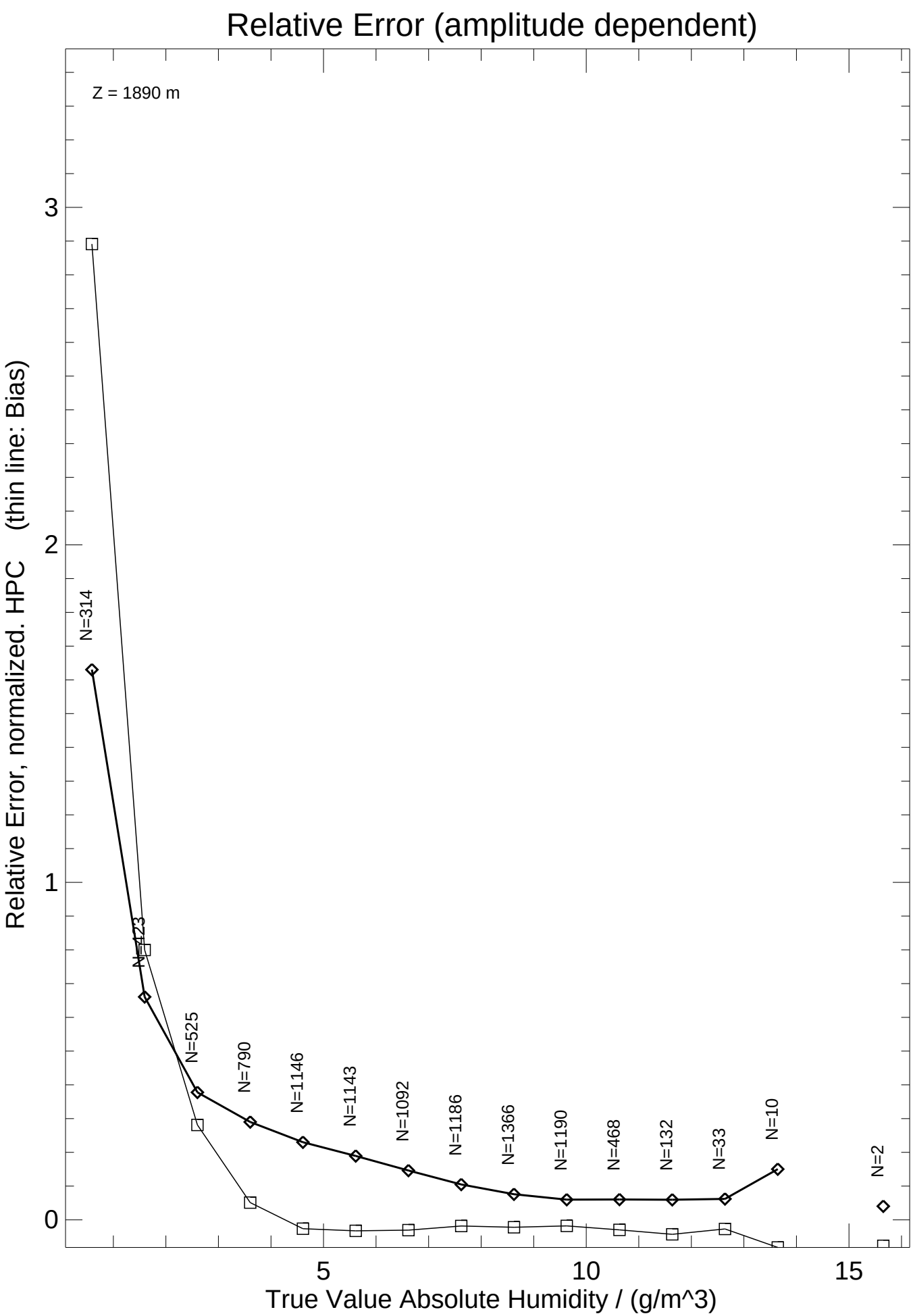

Absolute Error (amplitude dependent)
Z = 1800 m
Mean StD = 0.88 Max StD = 1.07
Mean bias = 0.50 Max bias = 1.84
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
5
10
15
N=265
N=358
N=523
N=774
N=1156
N=1191
N=1094
N=1203
N=1386
N=1210
N=485
N=131
N=33
N=9
N=2

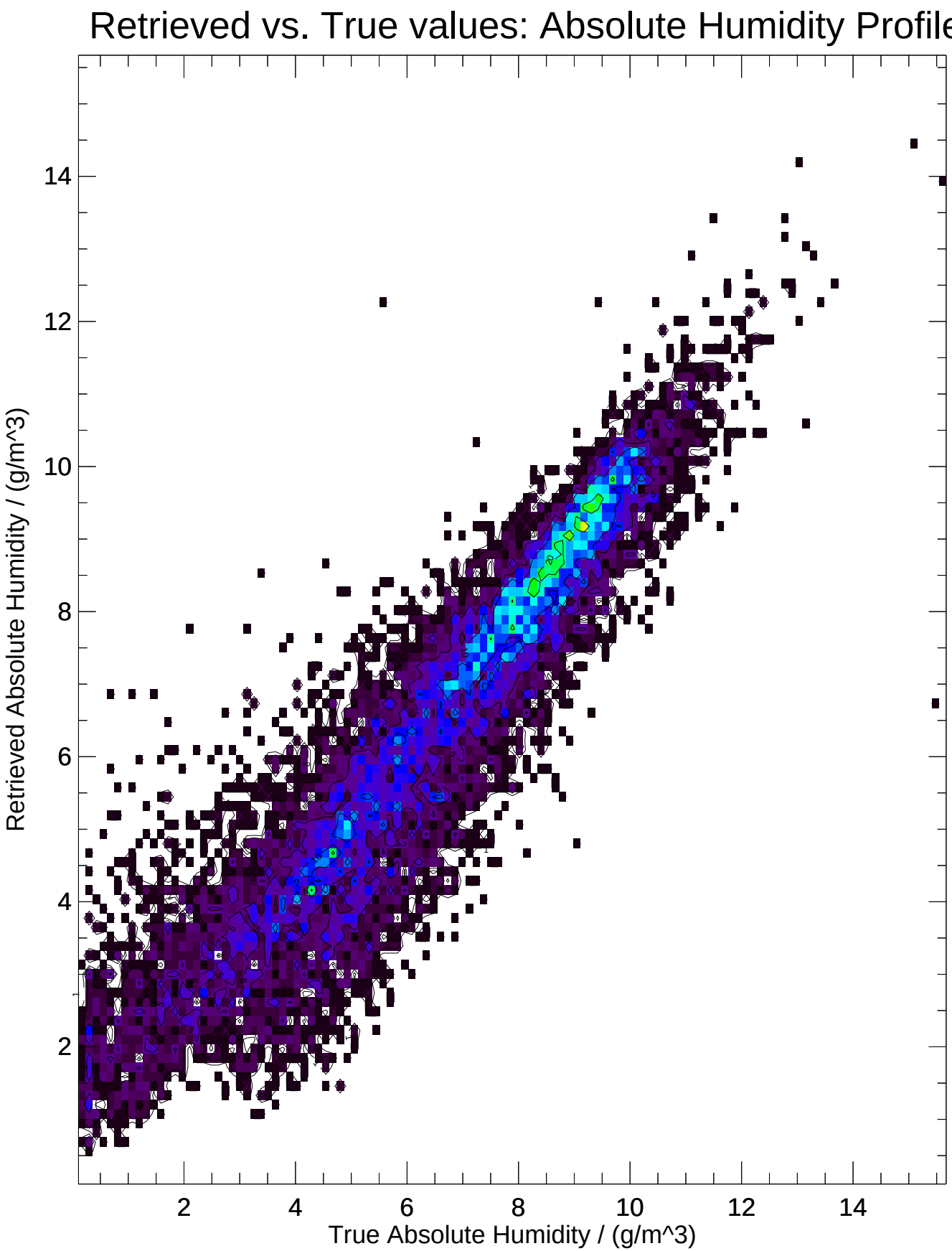

Relative Error (amplitude dependent)
Z = 1800 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
5
10
15
N=265
N=358
N=523
N=774
N=1156
N=1191
N=1094
N=1203
N=1386
N=1210
N=485
N=131
N=33
N=9
N=2

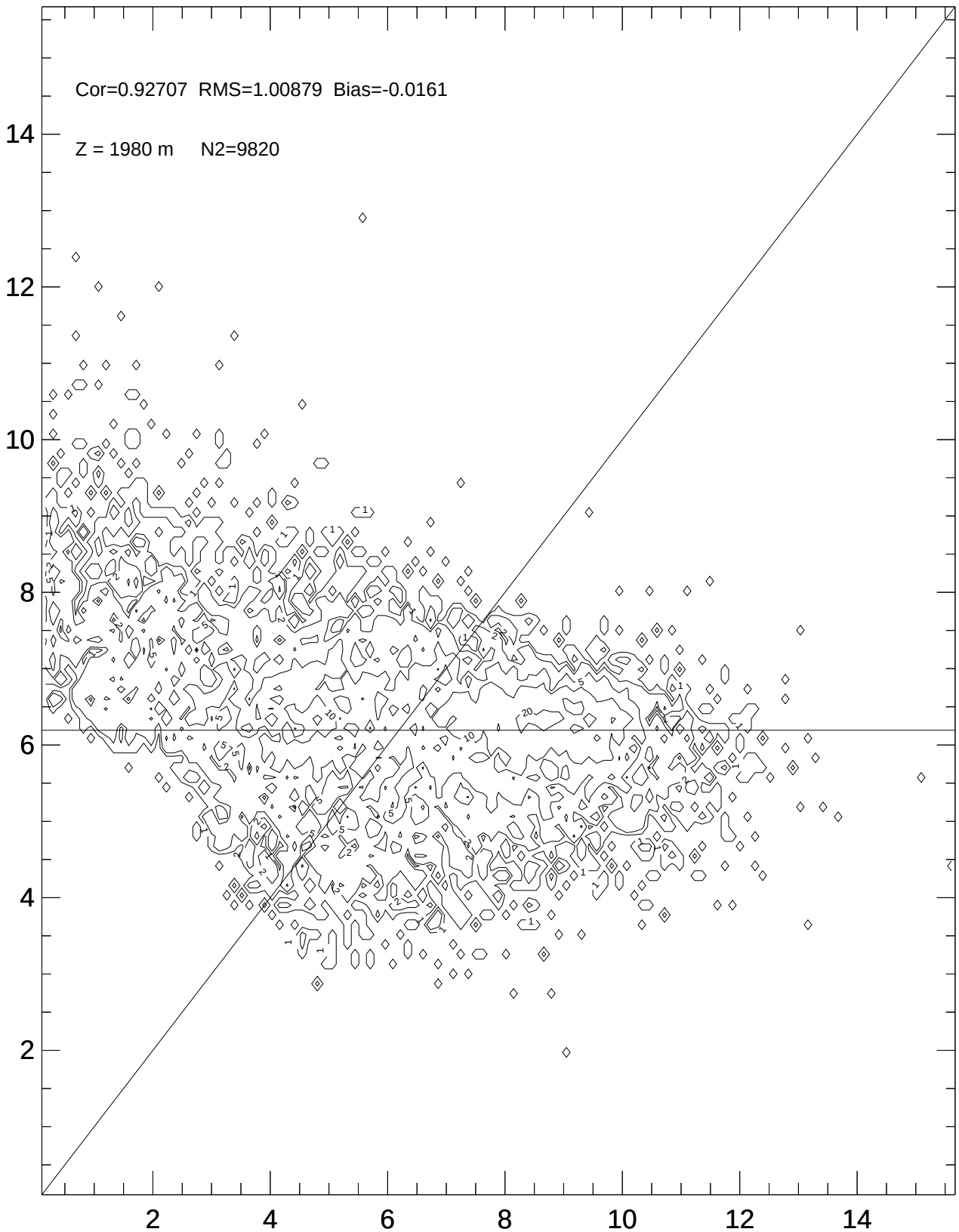

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
5
10
15
5
10
15

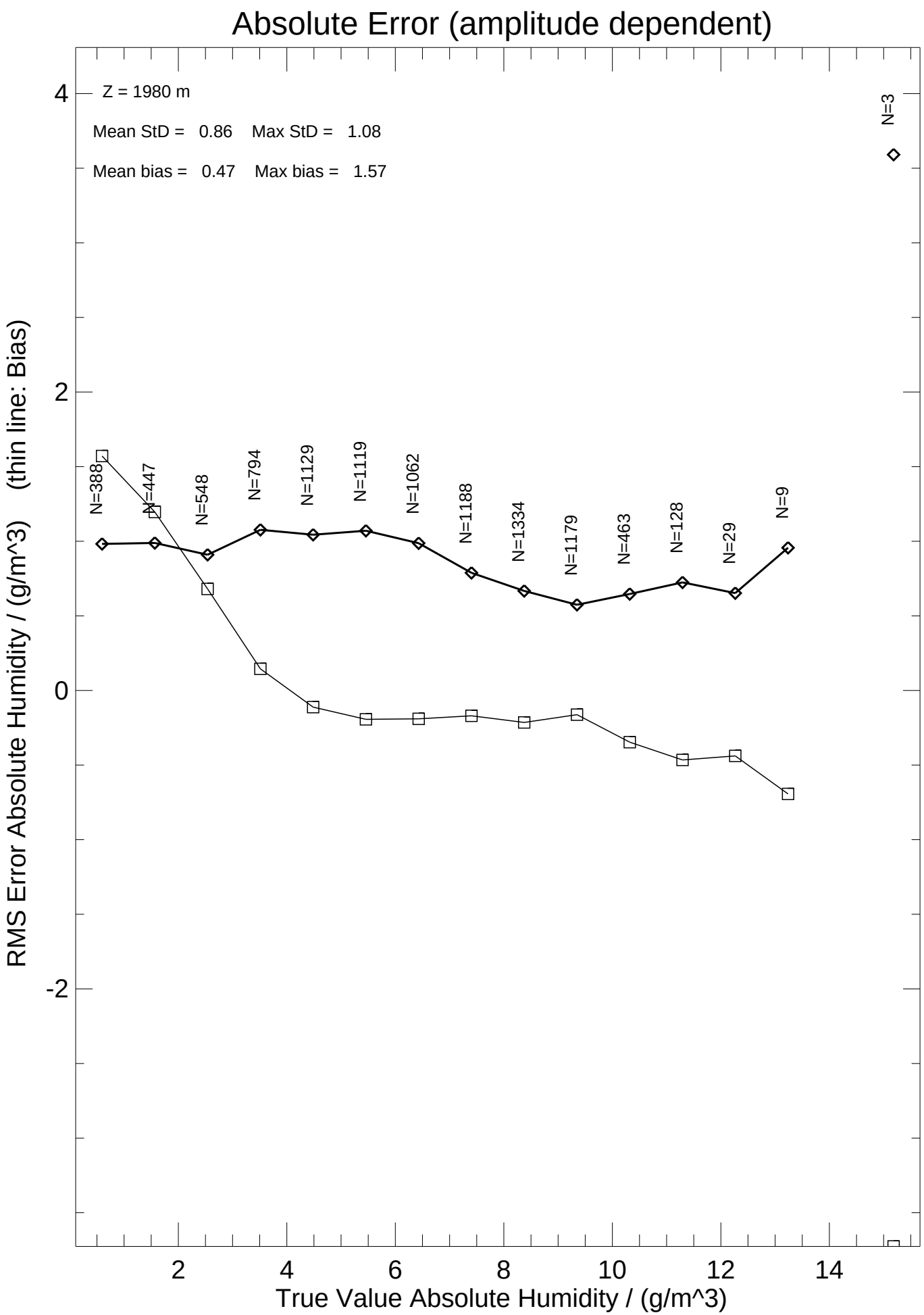

Cor=0.92874 RMS=1.00971 Bias=-0.0176
Z = 1890 m N2=9820
15
10
5
5
10
15

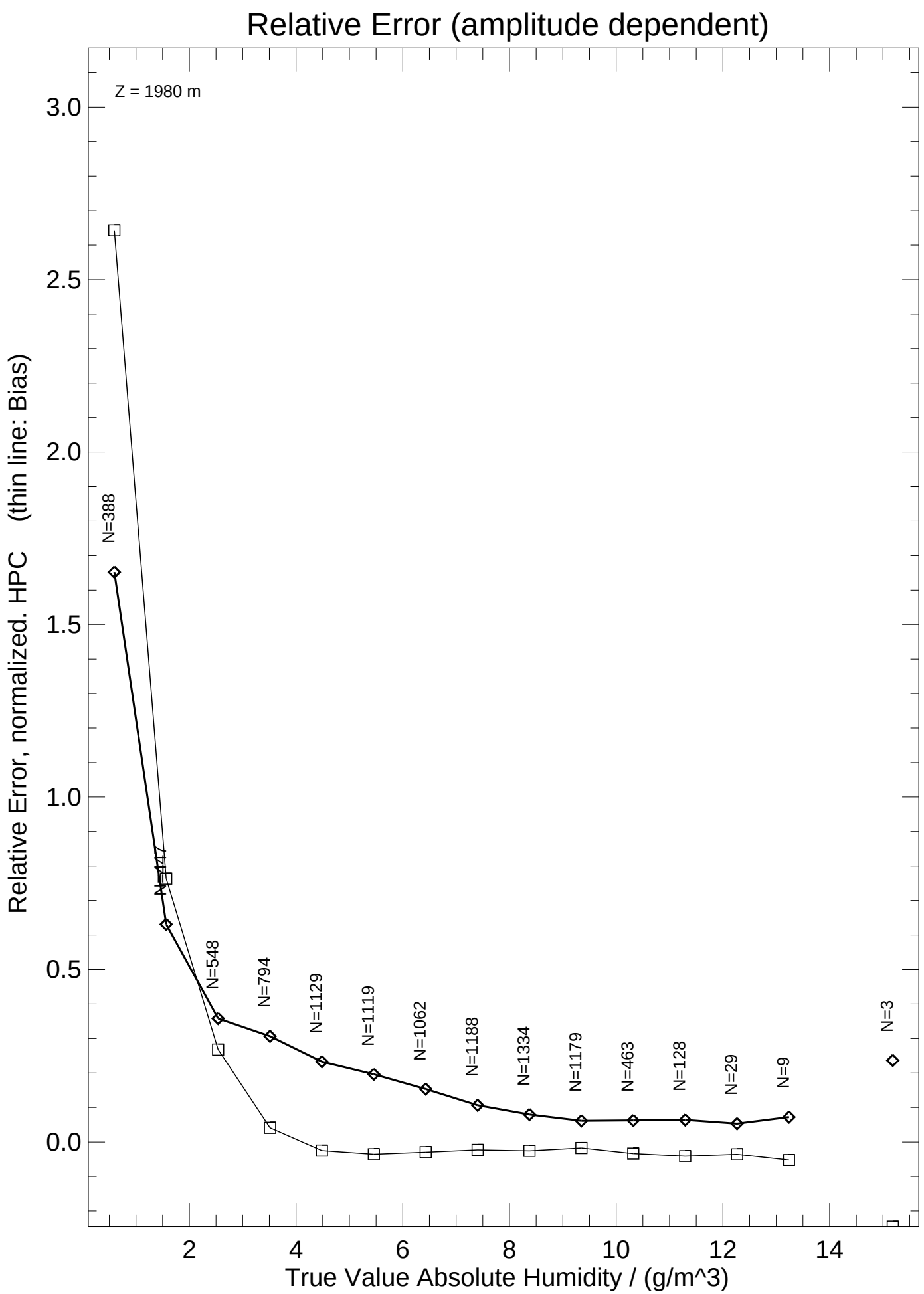

Absolute Error (amplitude dependent)
Z = 1890 m
Mean StD = 0.95 Max StD = 2.05
Mean bias = 0.51 Max bias = 1.71
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
N=314
N=423
N=525
N=790
N=1146
N=1143
N=1092
N=1186
N=1366
N=1190
N=468
N=132
N=33
N=10
N=2

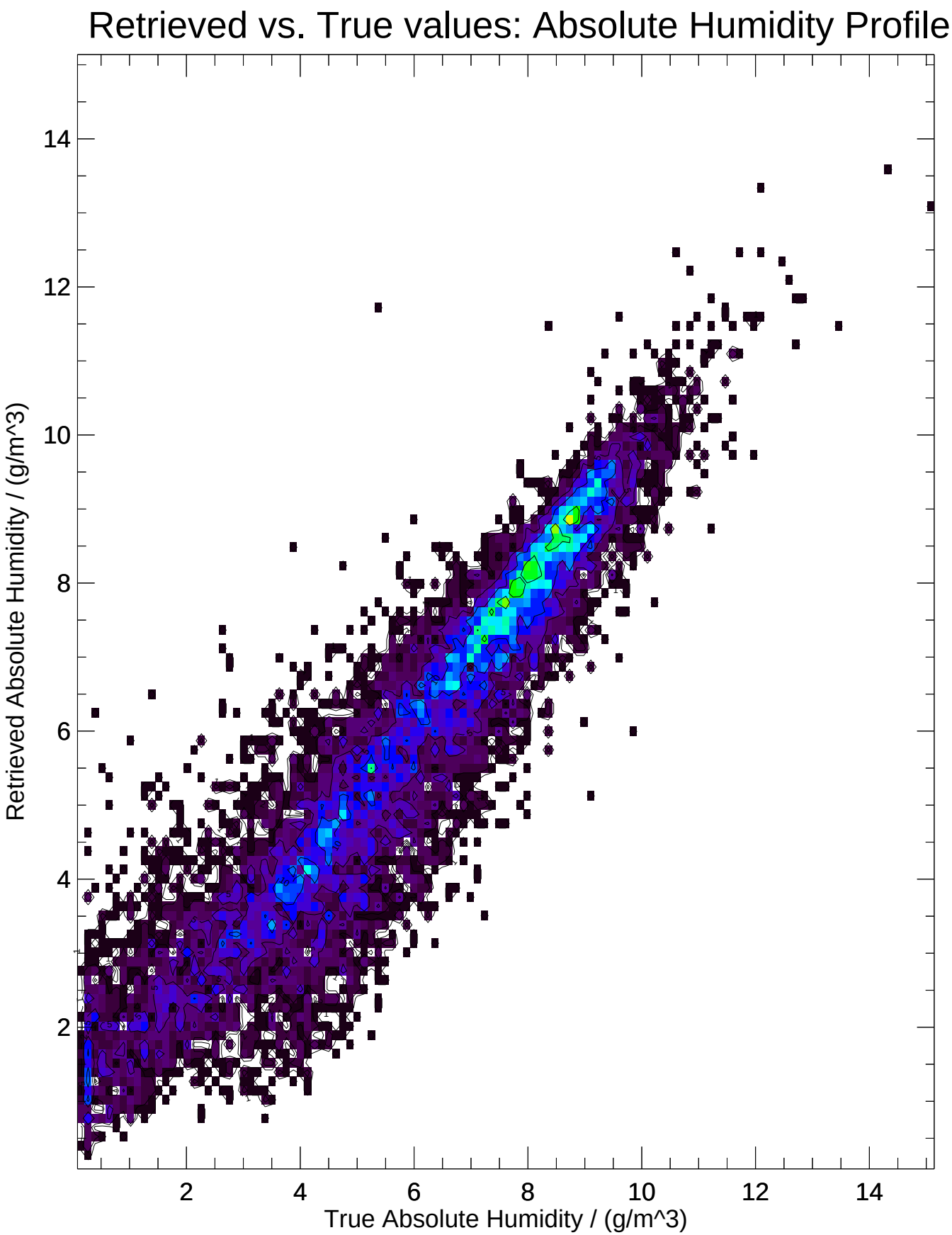

Relative Error (amplitude dependent)
Z = 1890 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0
1
2
3
5
10
15
N=314
N=123
N=525
N=790
N=1146
N=1143
N=1092
N=1186
N=1366
N=1190
N=468
N=132
N=33
N=10
N=2

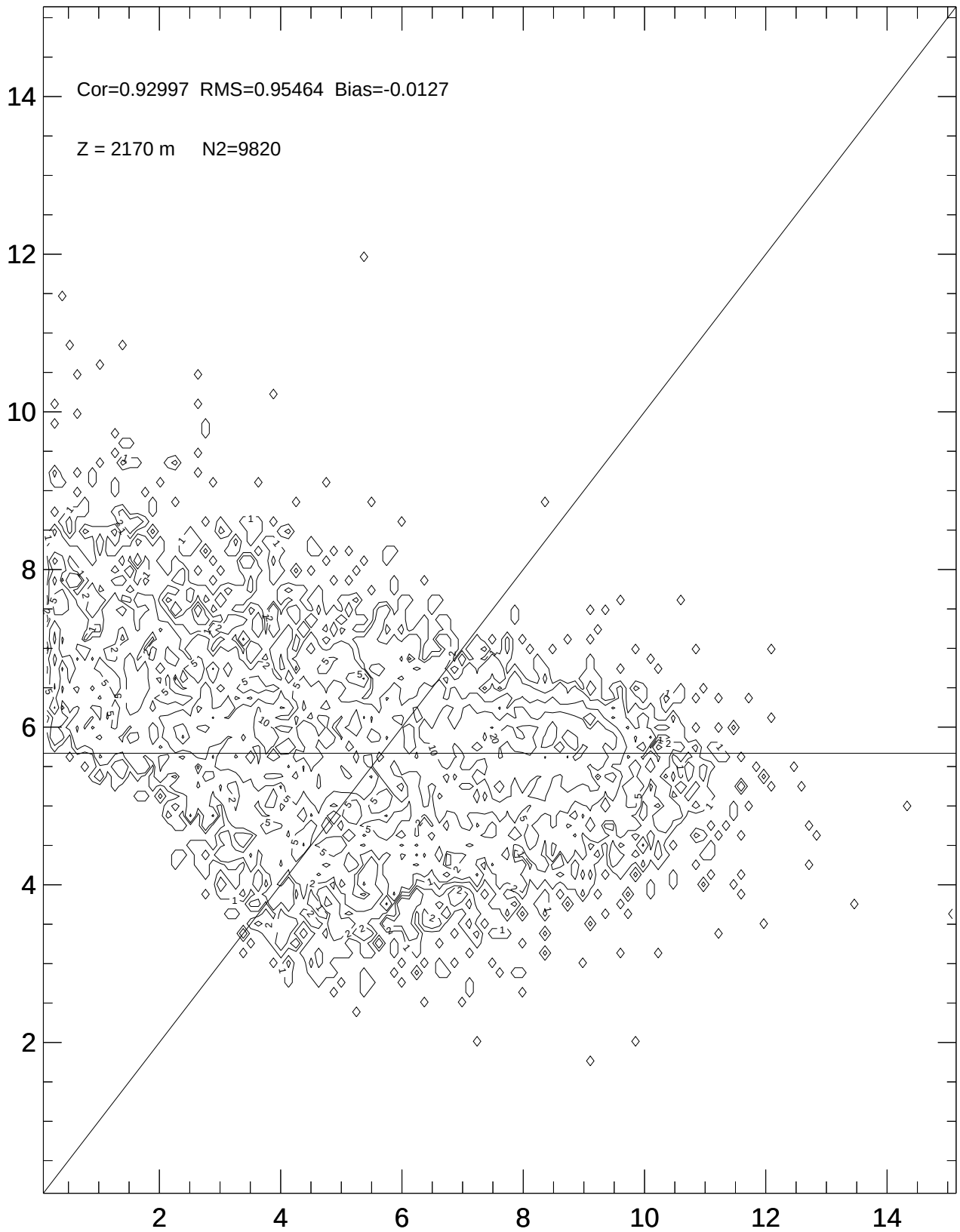

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
2
4
6
8
10
12
14

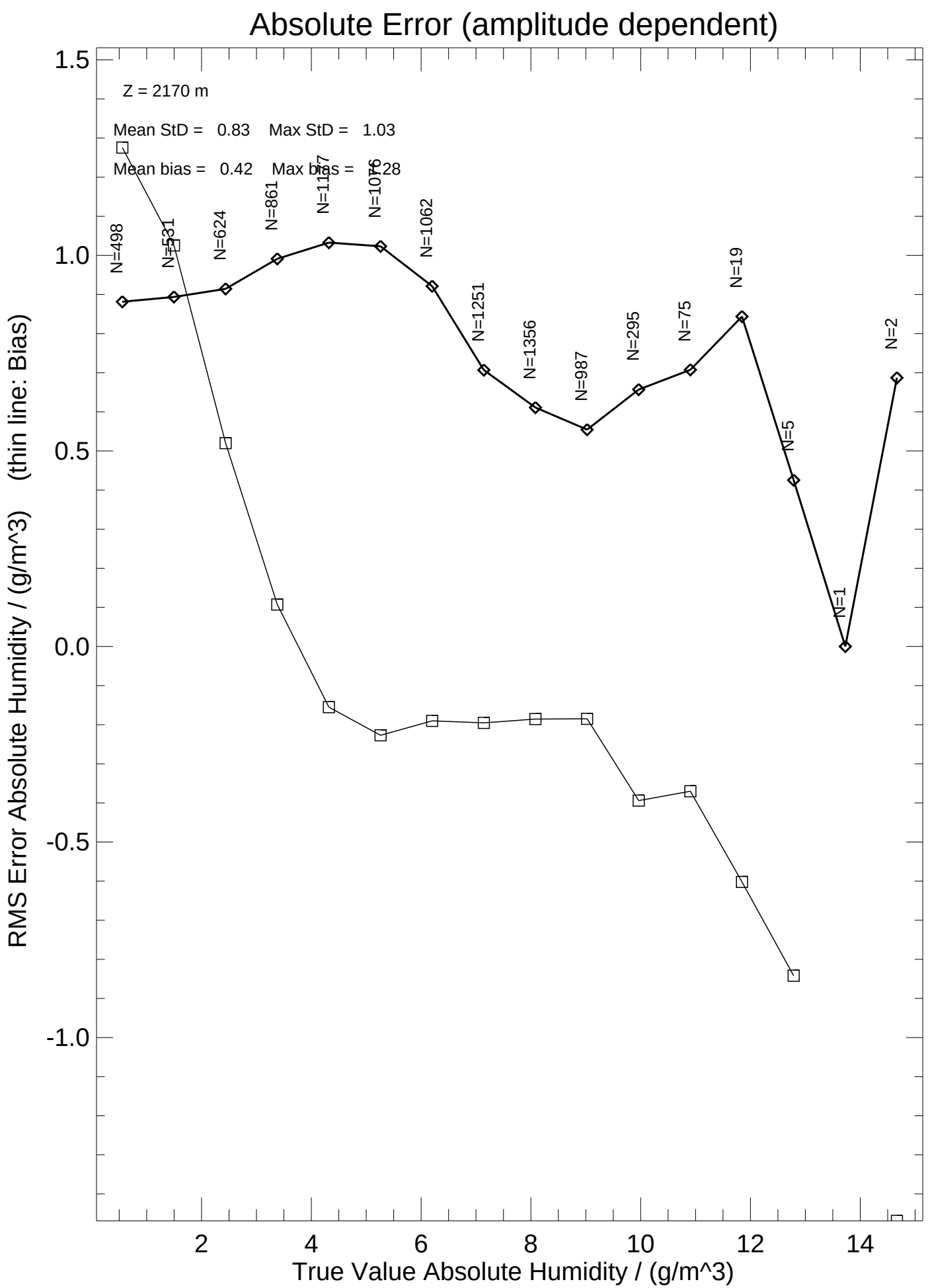

Cor=0.92707 RMS=1.00879 Bias=-0.0161
Z = 1980 m N2=9820
2
4
6
8
10
12
14

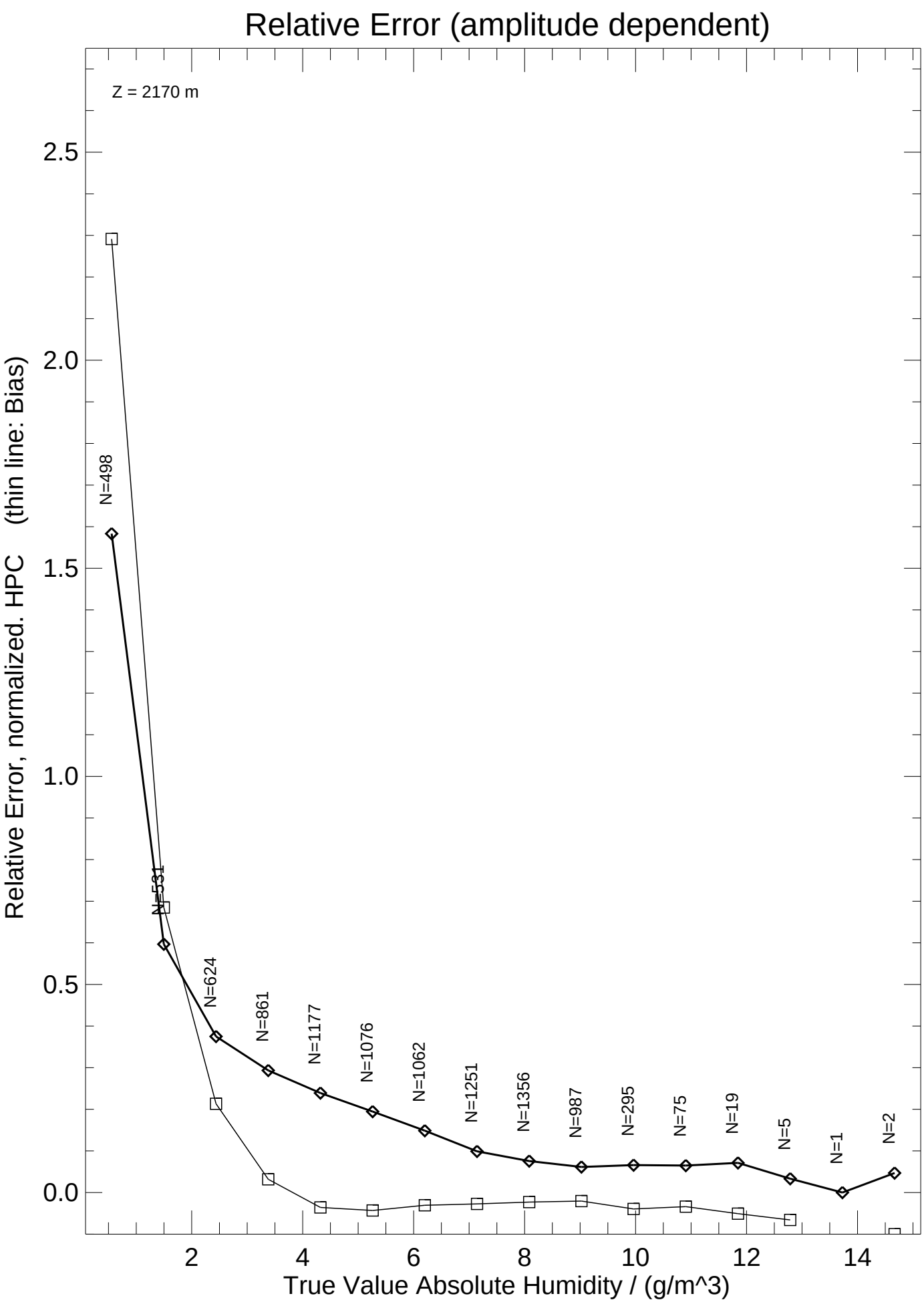

Absolute Error (amplitude dependent)
Z = 1980 m
Mean StD = 0.86 Max StD = 1.08
Mean bias = 0.47 Max bias = 1.57
N=3
N=388
N=447
N=548
N=794
N=1129
N=1119
N=1062
N=1188
N=1334
N=1179
N=463
N=128
N=29
N=9
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
4
2
0
-2
2
4
6
8
10
12
14

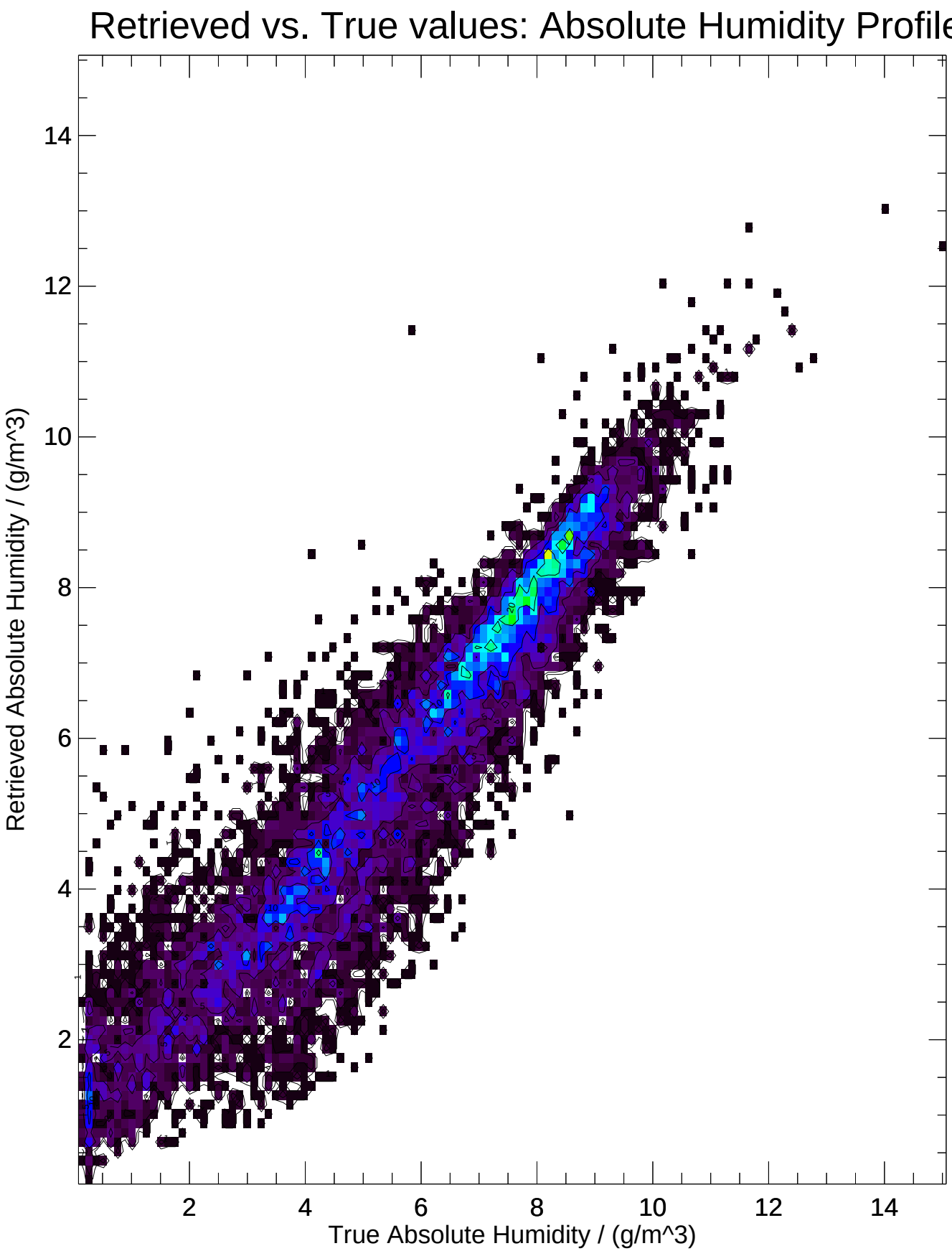

Relative Error (amplitude dependent)
Z = 1980 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
8
10
12
14
N=388
N=548
N=794
N=1129
N=1119
N=1062
N=1188
N=1334
N=1179
N=463
N=128
N=29
N=9
N=3

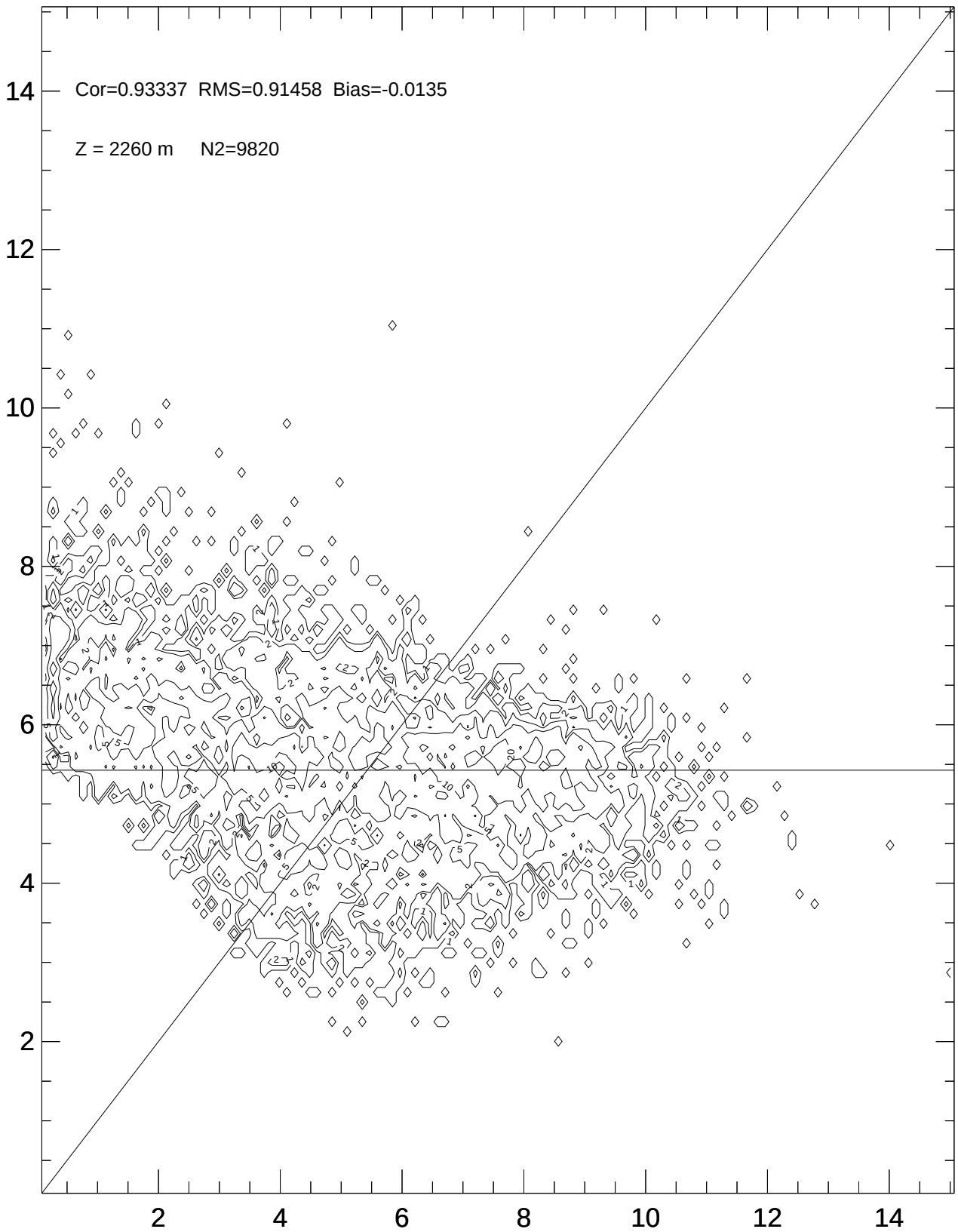

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
2
4
6
8
10
12
14

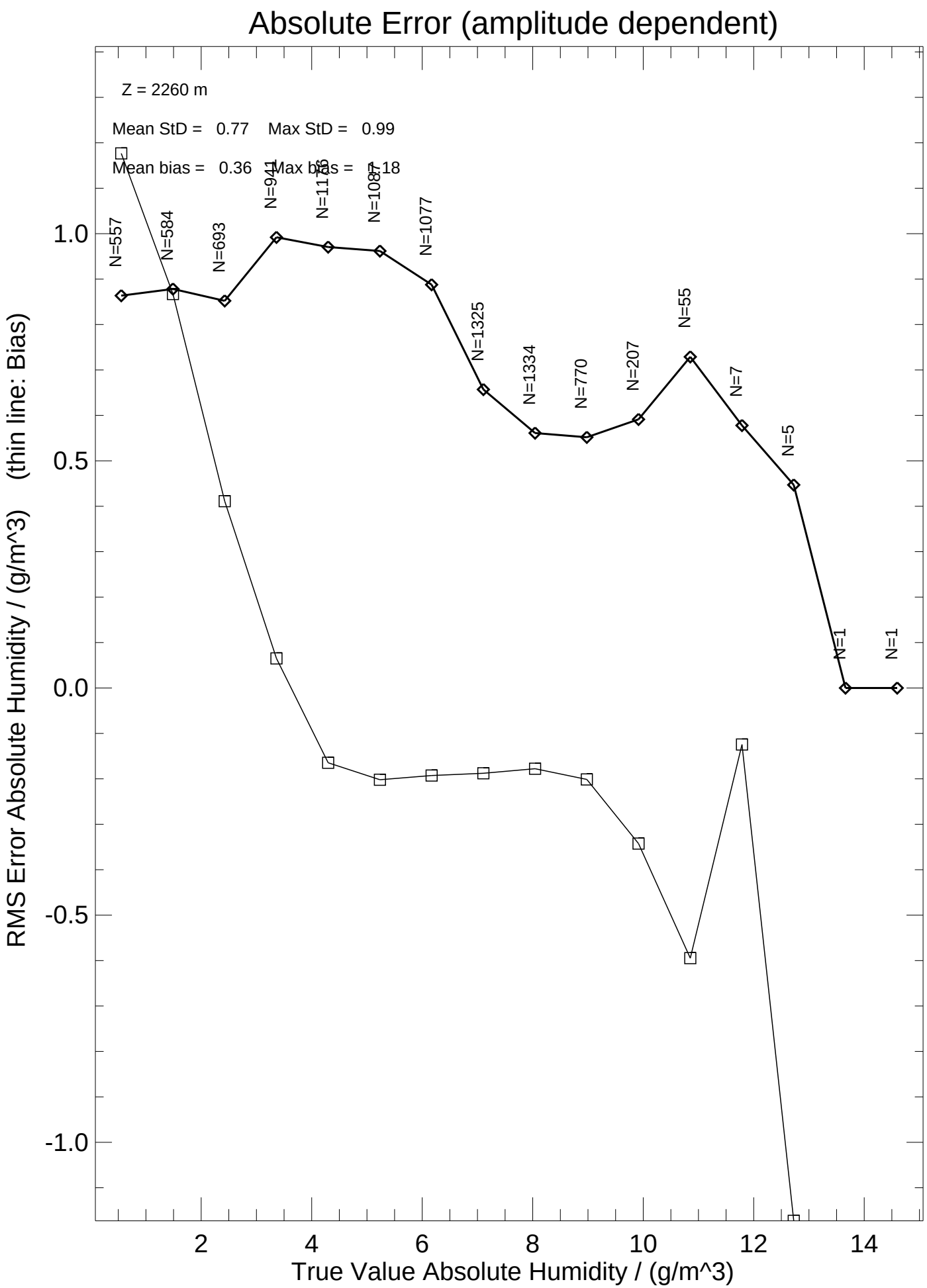

Cor=0.92997 RMS=0.95464 Bias=-0.0127
Z = 2170 m N2=9820
14
12
10
8
6
4
2
2
4
6
8
10
12
14

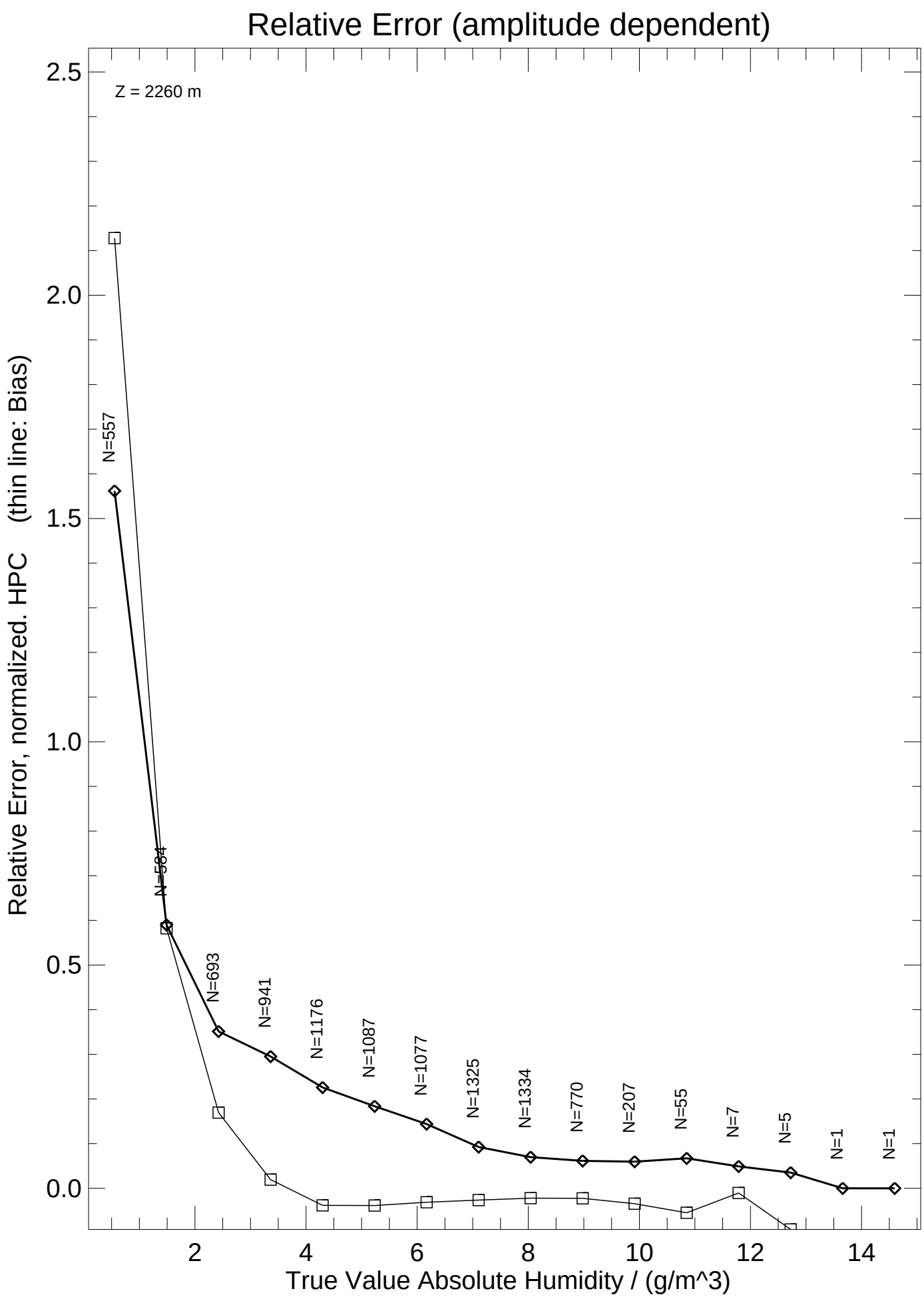

Absolute Error (amplitude dependent)
Z = 2170 m
Mean StD = 0.83 Max StD = 1.03
Mean bias = 0.42 Max bias = 1.28
N=498
N=531
N=624
N=861
N=1177
N=1076
N=1062
N=1251
N=1356
N=987
N=295
N=75
N=19
N=5
N=1
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
1.5
1.0
0.5
0.0
-0.5
-1.0
2
4
6
8
10
12
14

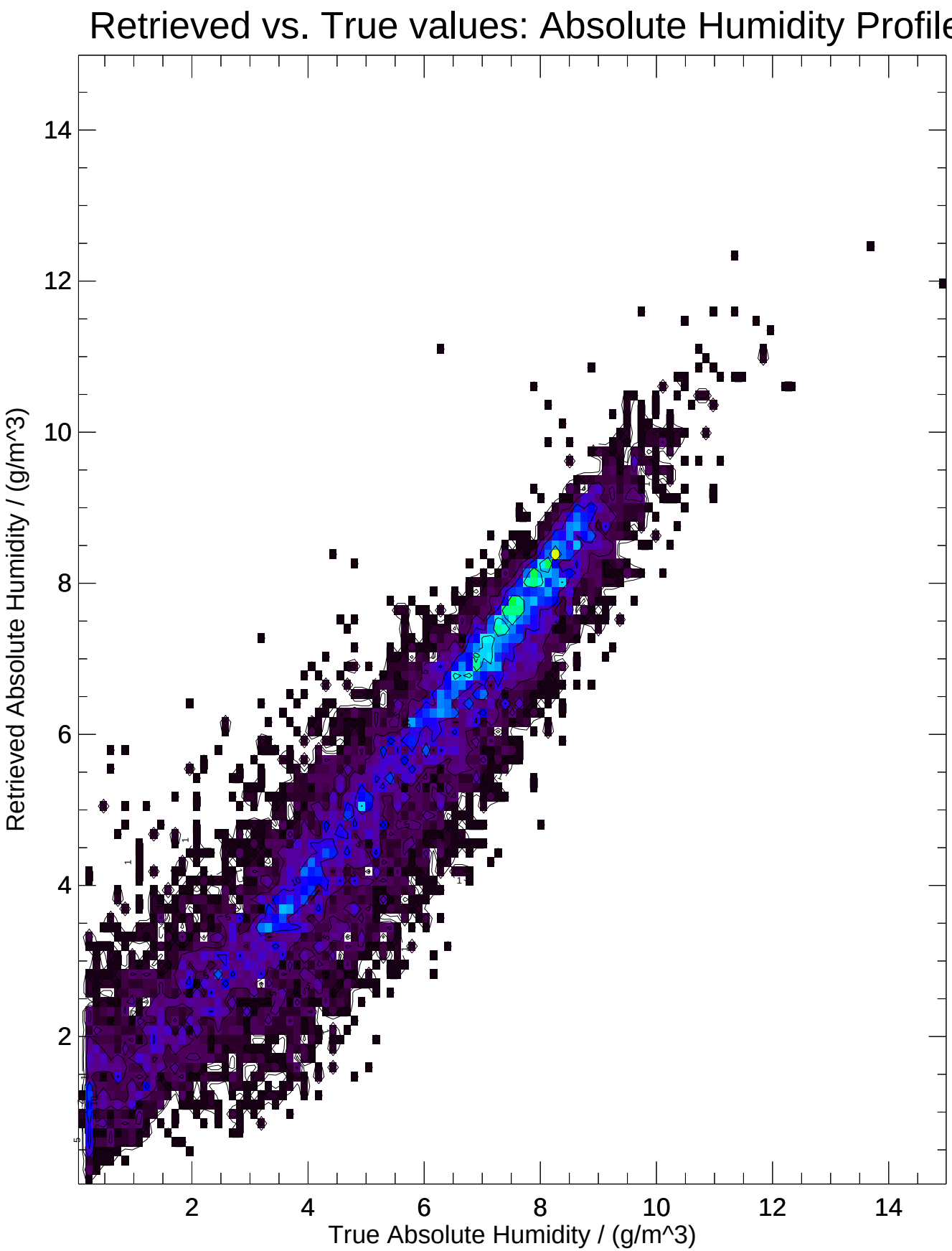

Relative Error (amplitude dependent)
Z = 2170 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2.0
2.5
2
4
6
8
10
12
14
N=498
N=531
N=624
N=861
N=1177
N=1076
N=1062
N=1251
N=1356
N=987
N=295
N=75
N=19
N=5
N=1
N=2

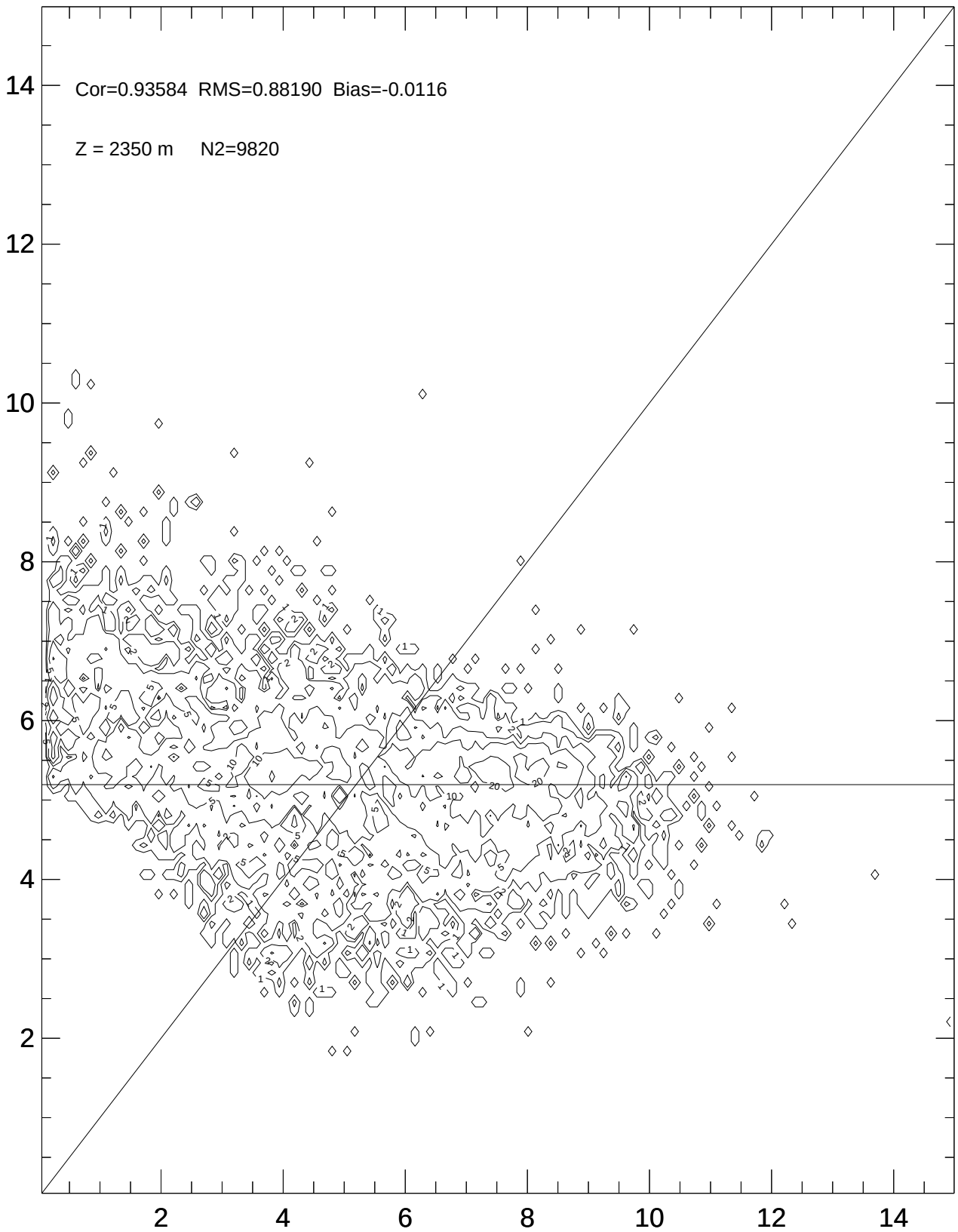

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
2
4
6
8
10
12
14

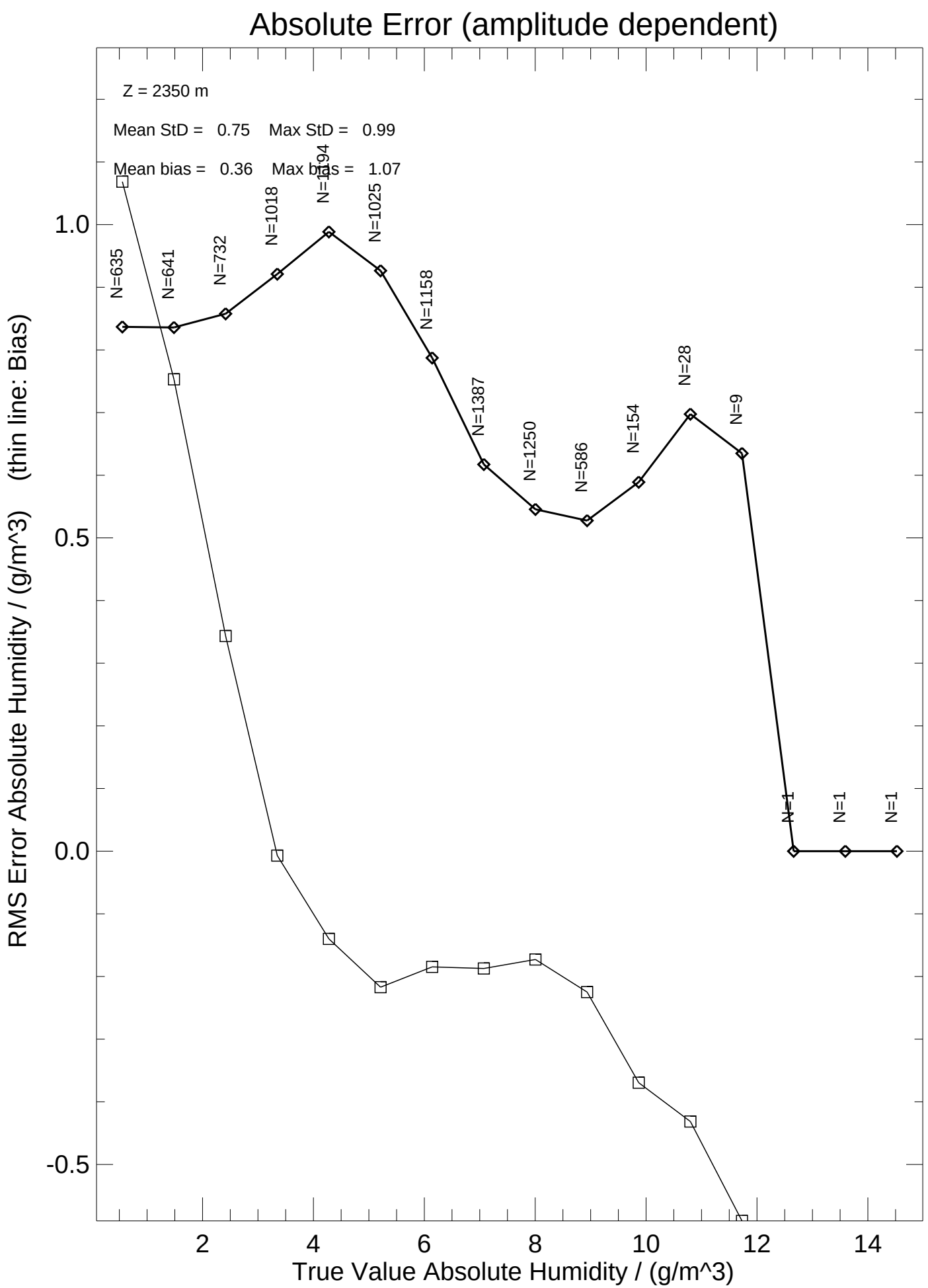

Cor=0.93337 RMS=0.91458 Bias=-0.0135
Z = 2260 m N2=9820
14
12
10
8
6
4
2
2
4
6
8
10
12
14

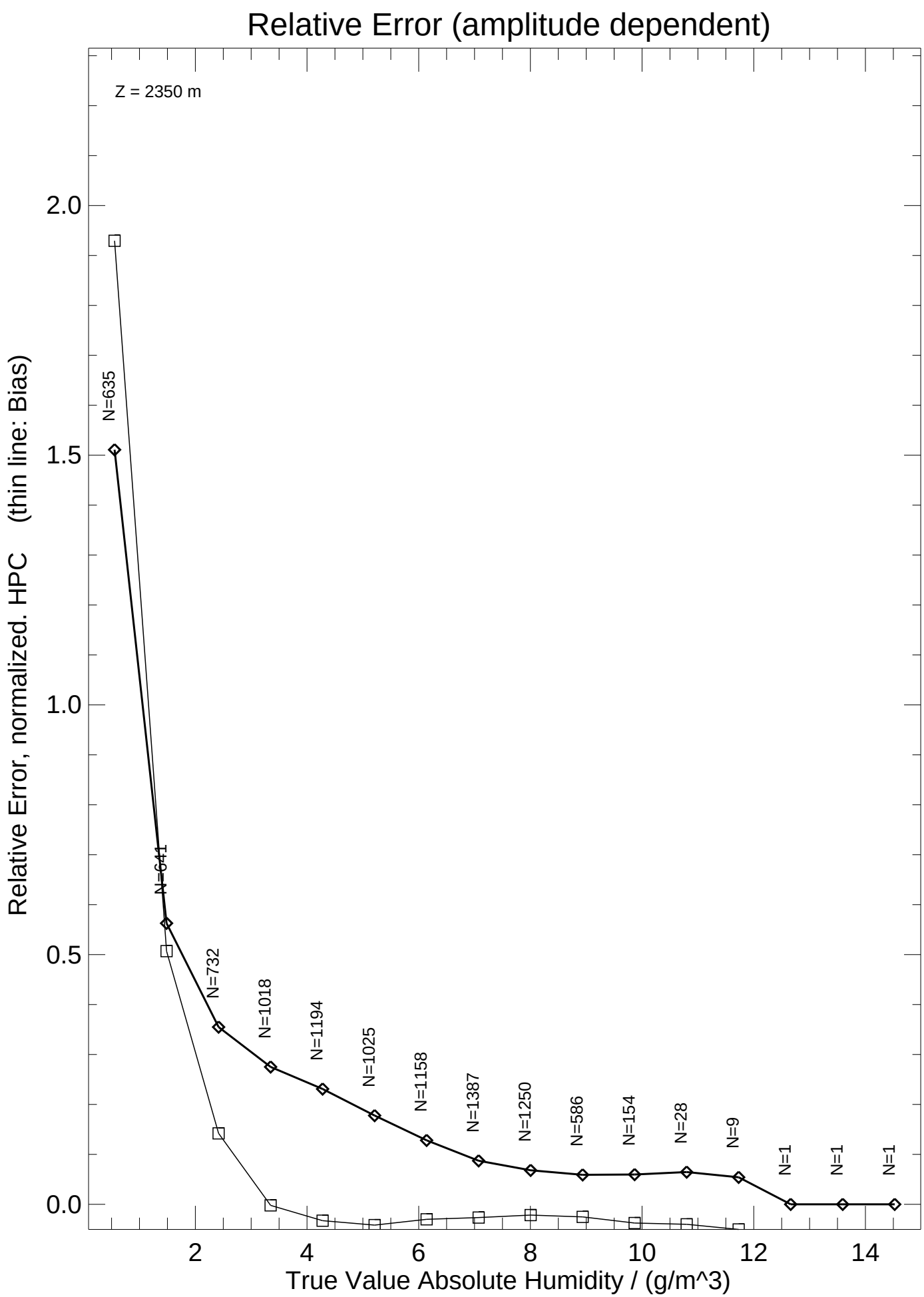

Absolute Error (amplitude dependent)
Z = 2260 m
Mean StD = 0.77 Max StD = 0.99
Mean bias = 0.36 Max bias = 1.18
N=557
N=584
N=693
N=941
N=1178
N=1087
N=1077
N=1325
N=1334
N=770
N=207
N=55
N=7
N=5
N=1
N=1
1.0
0.5
0.0
-0.5
-1.0
2
4
6
8
10
12
14
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

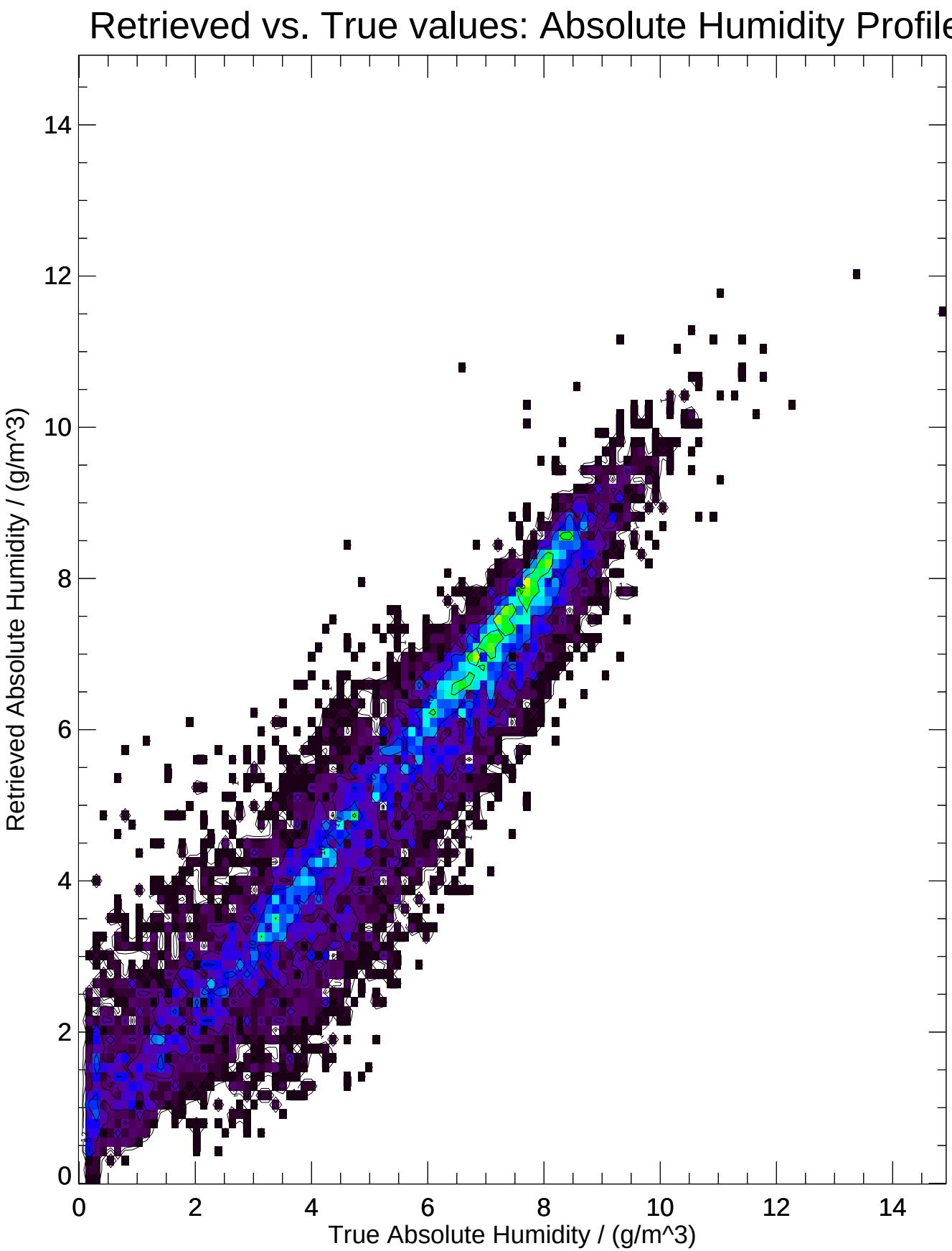

Relative Error (amplitude dependent)
Z = 2260 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
8
10
12
14
N=557
N=584
N=693
N=941
N=1176
N=1087
N=1077
N=1325
N=1334
N=770
N=207
N=55
N=7
N=5
N=1
N=1

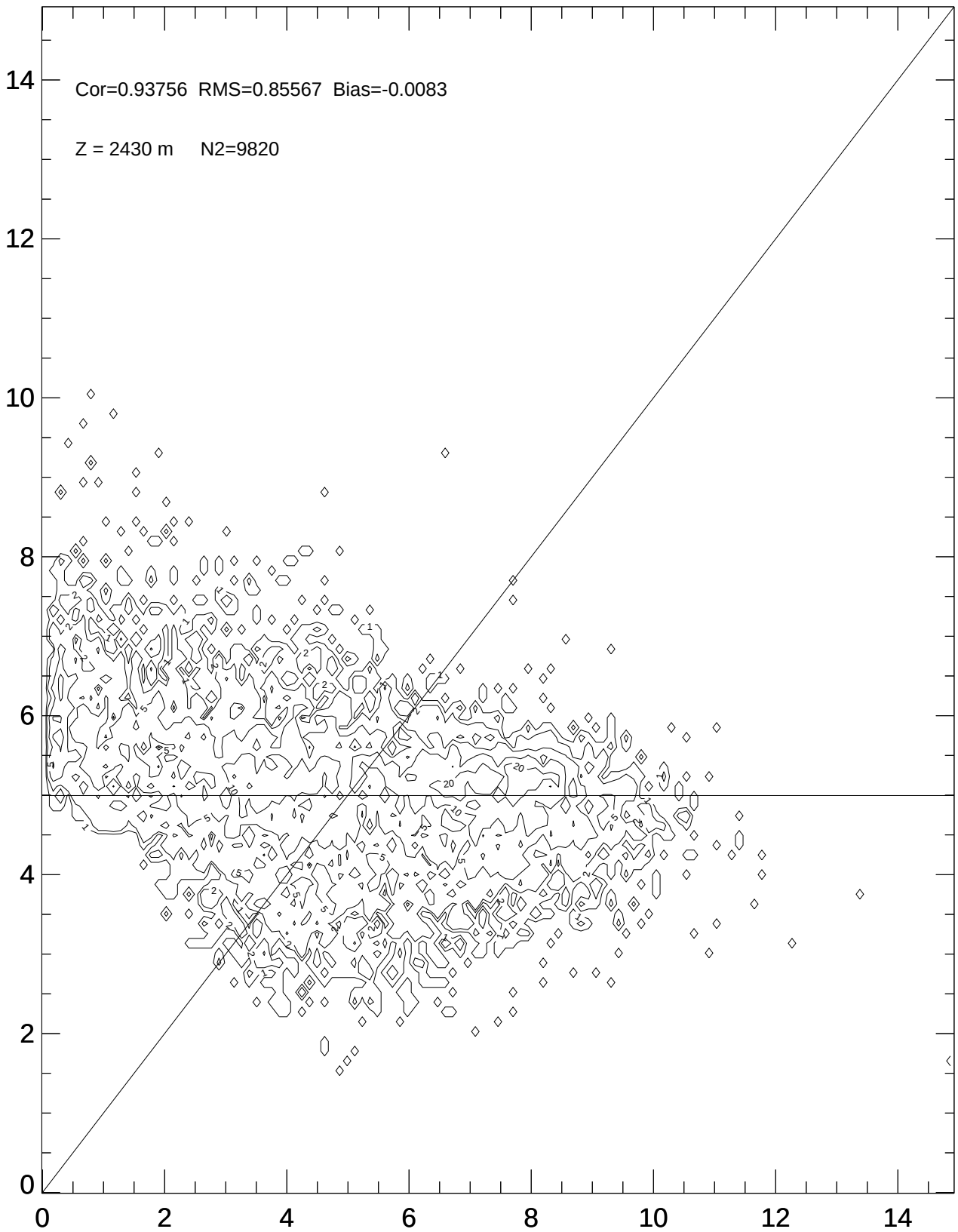

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
2
4
6
8
10
12
14

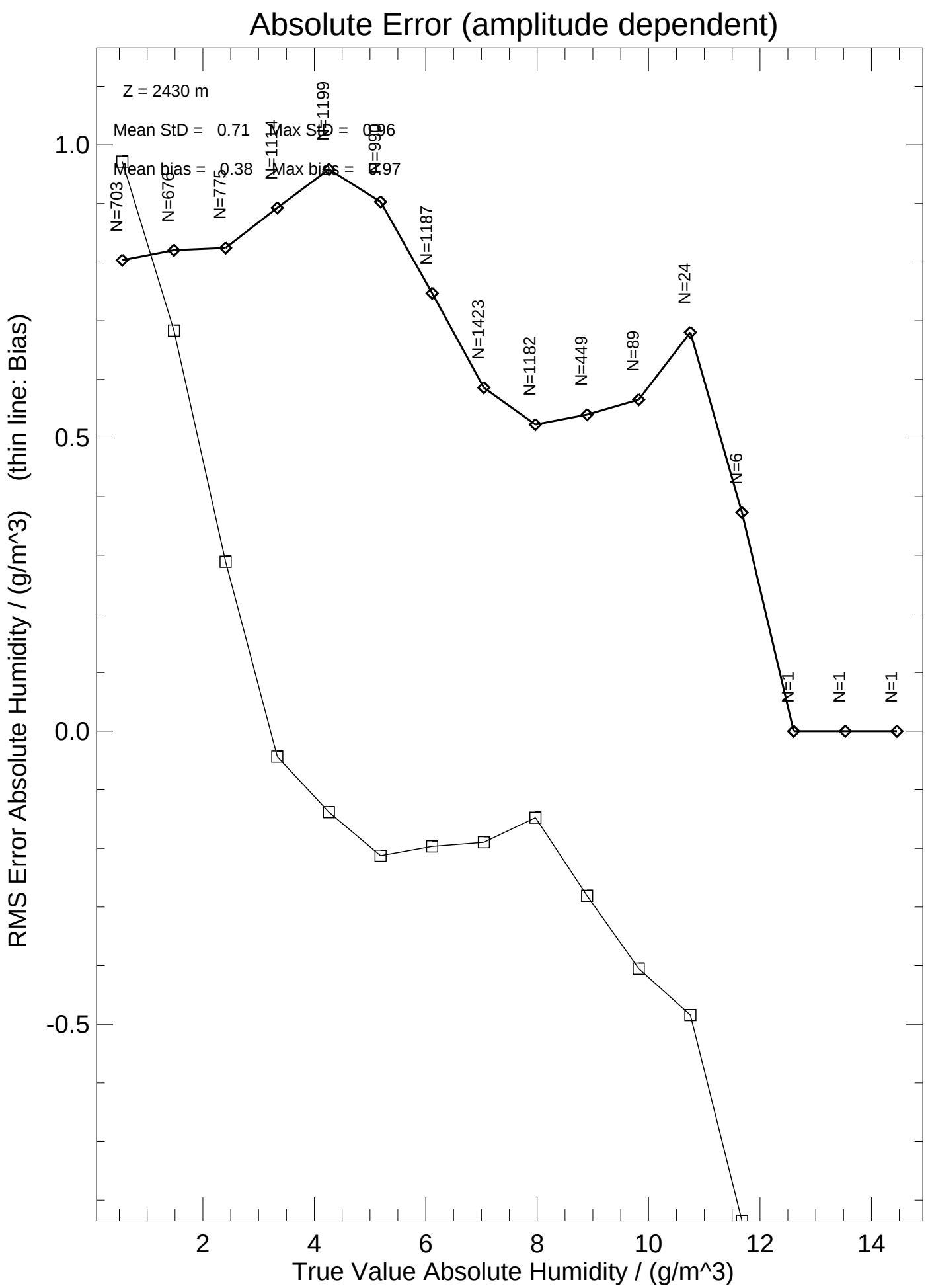

Cor=0.93584 RMS=0.88190 Bias=-0.0116
Z = 2350 m N2=9820
14
12
10
8
6
4
2
2
4
6
8
10
12
14

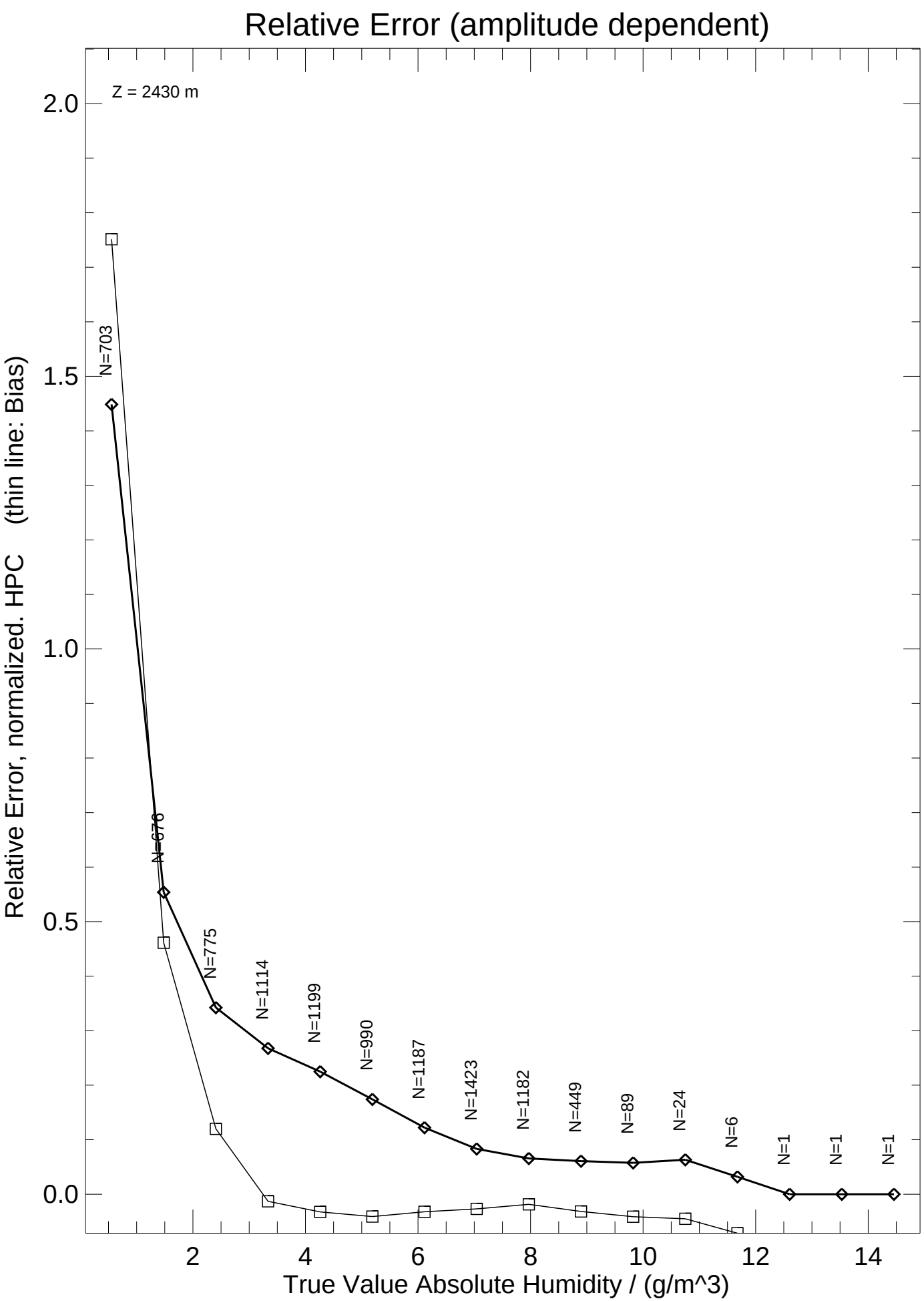

Absolute Error (amplitude dependent)
Z = 2350 m
Mean StD = 0.75 Max StD = 0.99
Mean bias = 0.36 Max bias = 1.07
N=635
N=641
N=732
N=1018
N=1194
N=1025
N=1158
N=1387
N=1250
N=586
N=154
N=28
N=9
N=1
N=1
N=1
1.0
0.5
0.0
-0.5
2
4
6
8
10
12
14
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

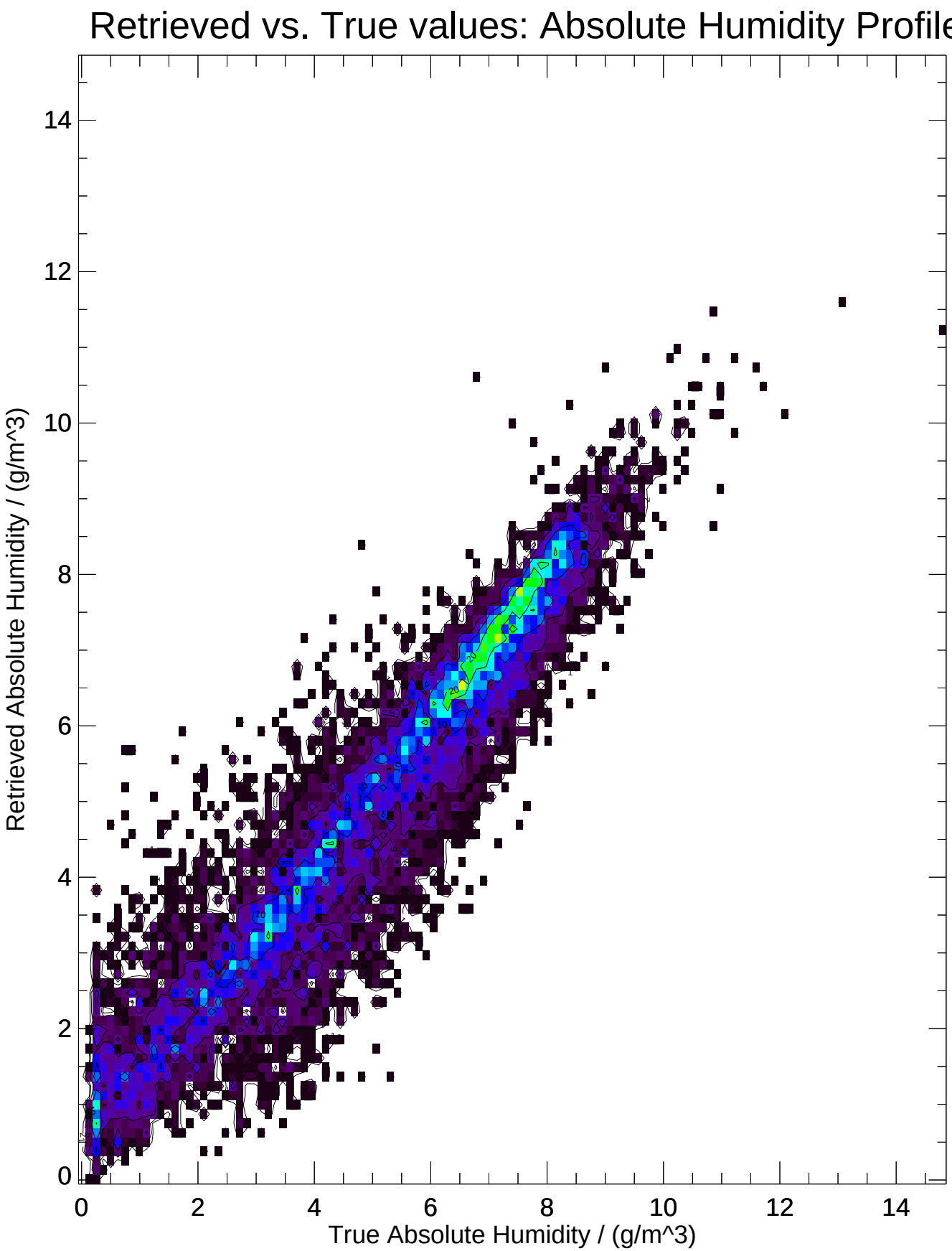

Relative Error (amplitude dependent)
Z = 2350 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2.0
2
4
6
8
10
12
14
N=635
N=641
N=732
N=1018
N=1194
N=1025
N=1158
N=1387
N=1250
N=586
N=154
N=28
N=9
N=1
N=1
N=1

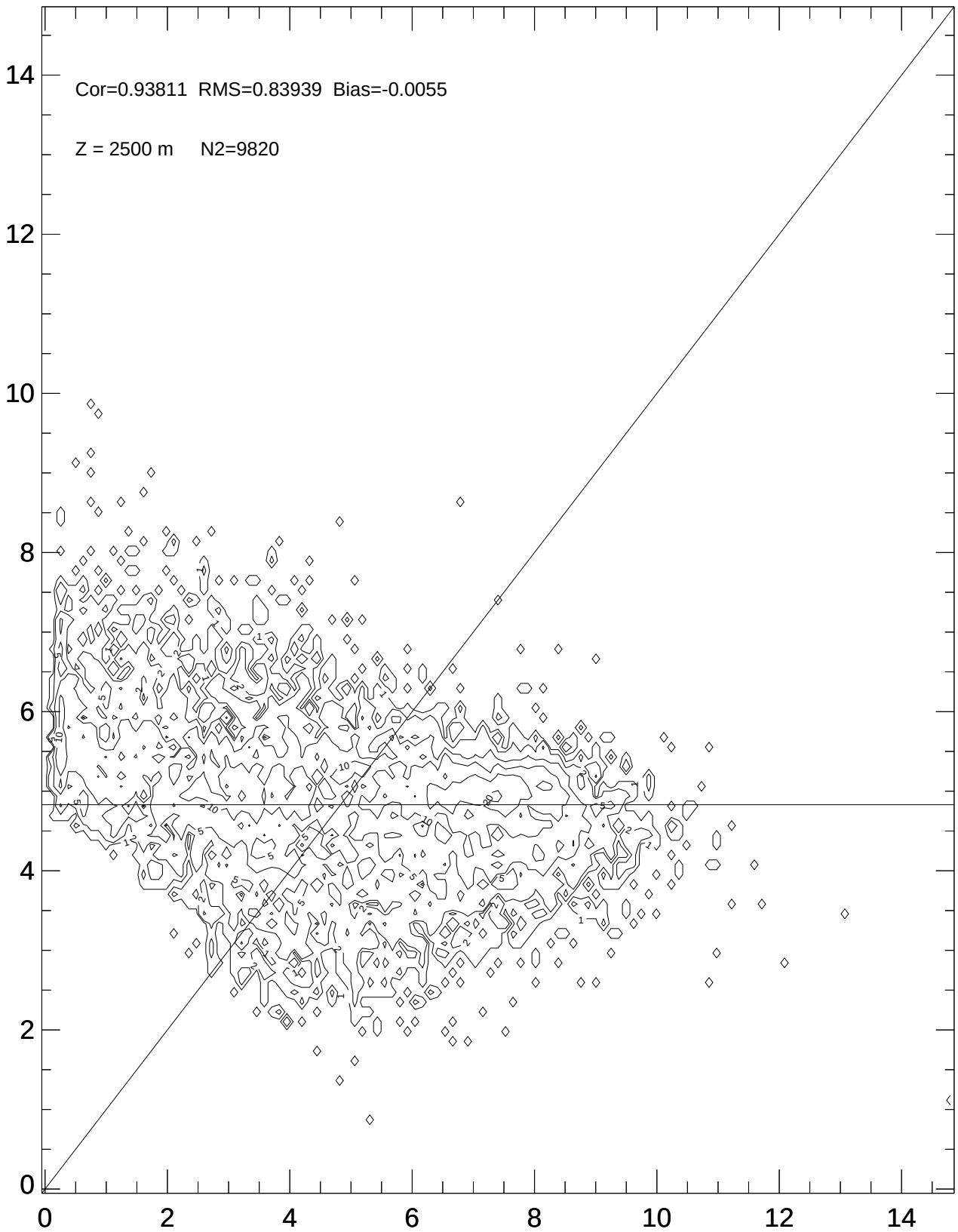

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12
14

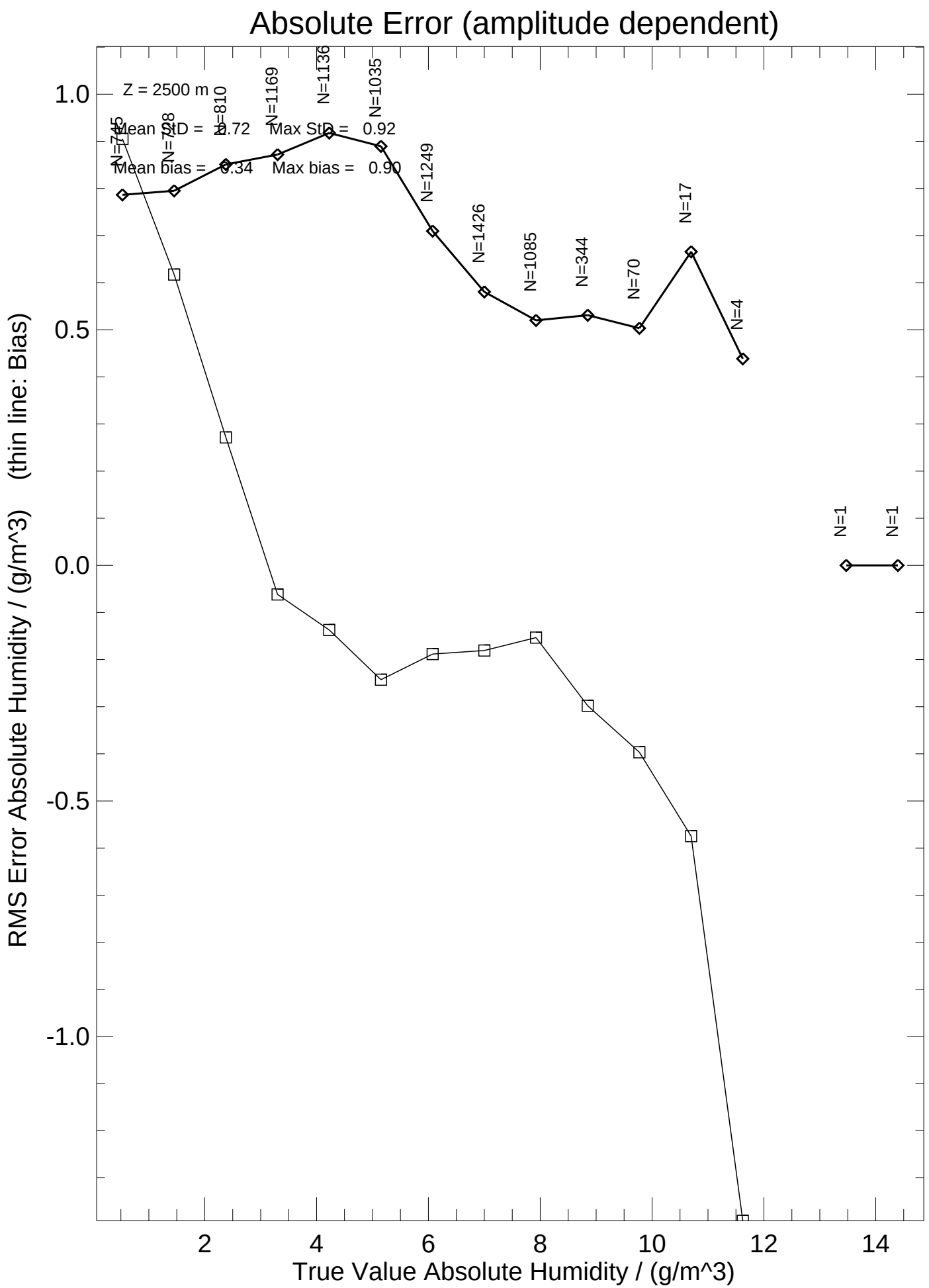

Cor=0.93756 RMS=0.85567 Bias=-0.0083
Z = 2430 m N2=9820
0
2
4
6
8
10
12
14

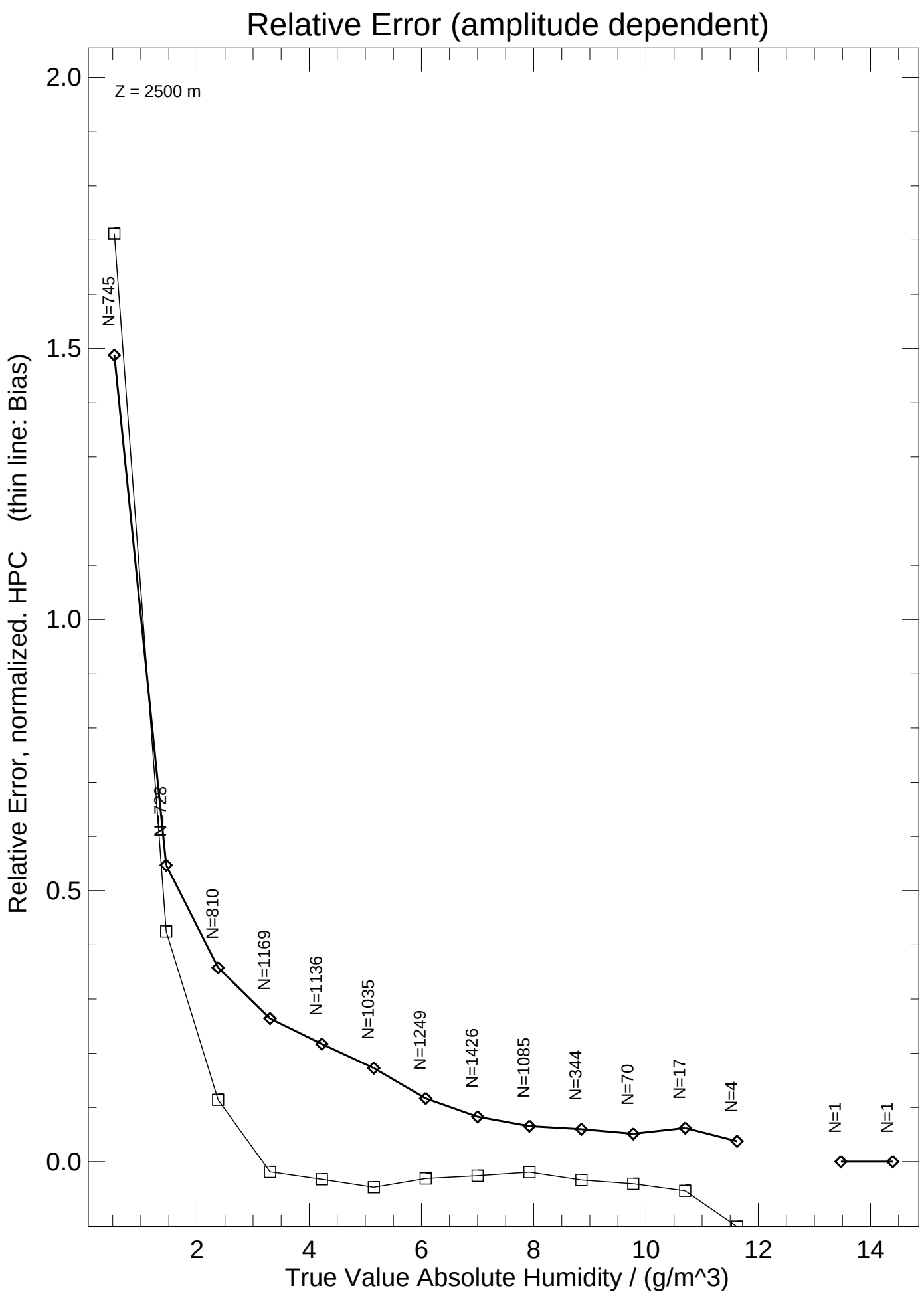

Absolute Error (amplitude dependent)
Z = 2430 m
Mean StD = 0.71 Max StD = 0.96
Mean bias = 0.38 Max bias = 0.97
N=703
N=676
N=775
N=1114
N=1199
N=993
N=1187
N=1423
N=1182
N=449
N=89
N=24
N=6
N=1
N=1
N=1
1.0
0.5
0.0
-0.5
2
4
6
8
10
12
14
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

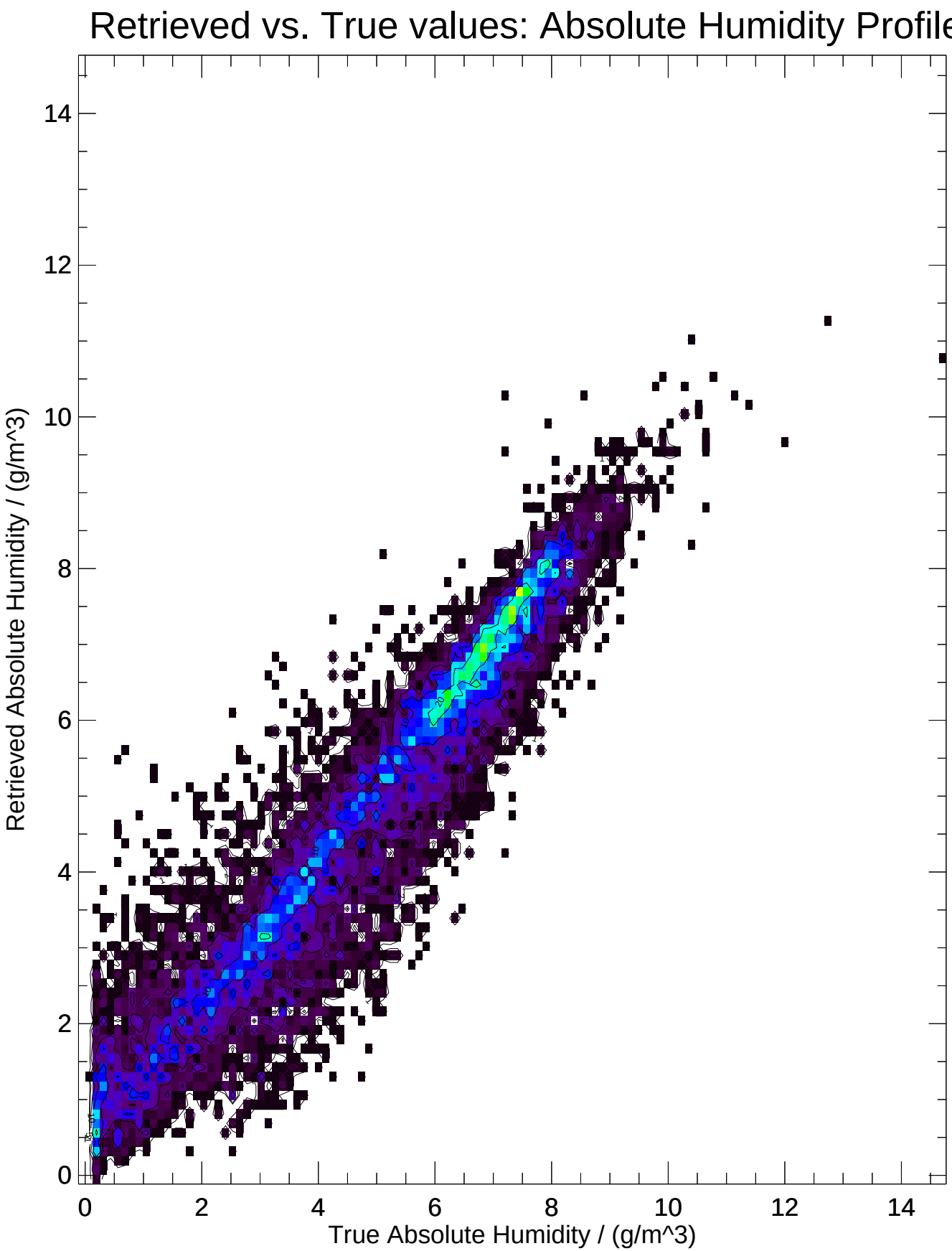

Relative Error (amplitude dependent)
Z = 2430 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2.0
2
4
6
8
10
12
14
N=703
N=676
N=775
N=1114
N=1199
N=990
N=1187
N=1423
N=1182
N=449
N=89
N=24
N=6
N=1
N=1
N=1

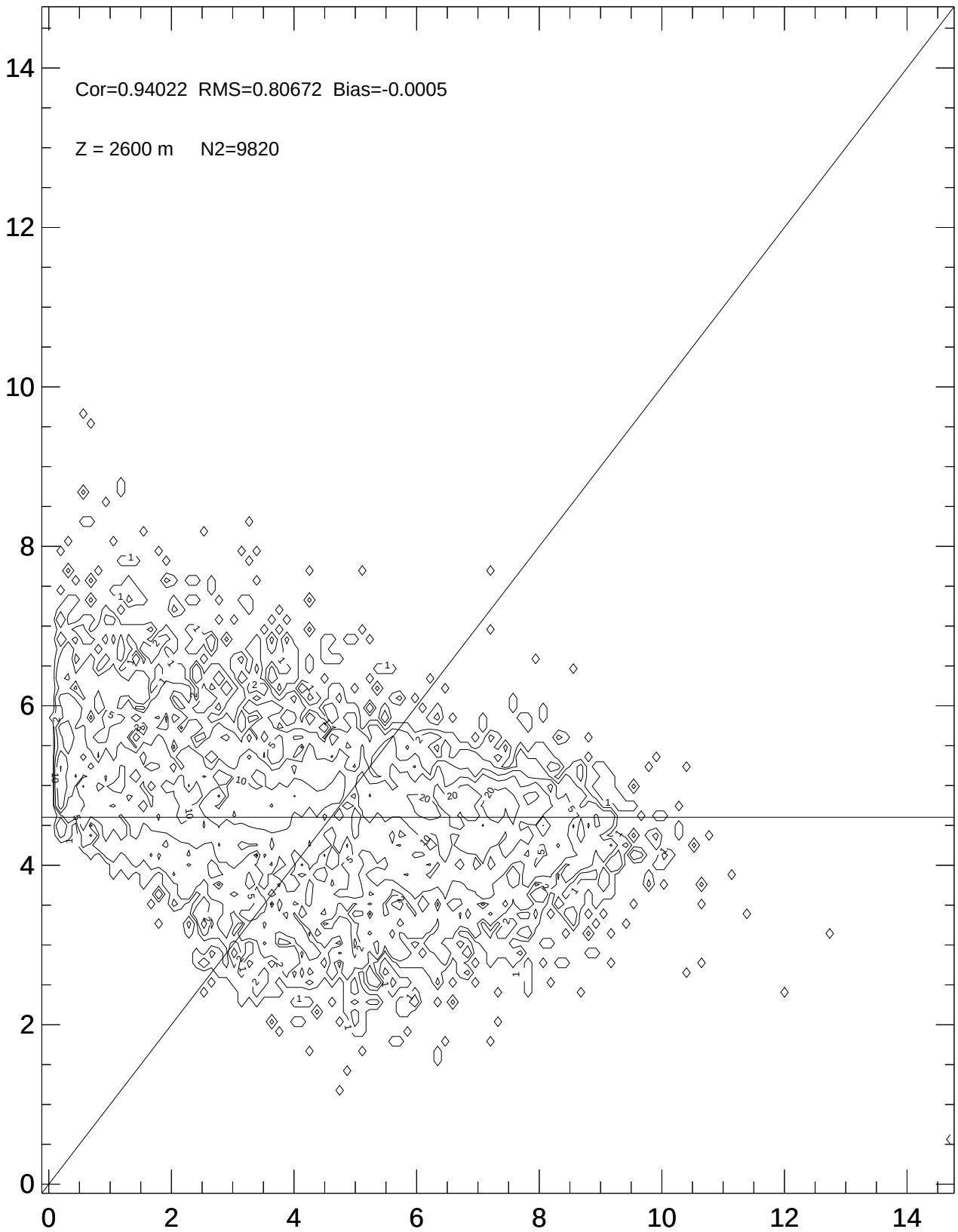

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12
14

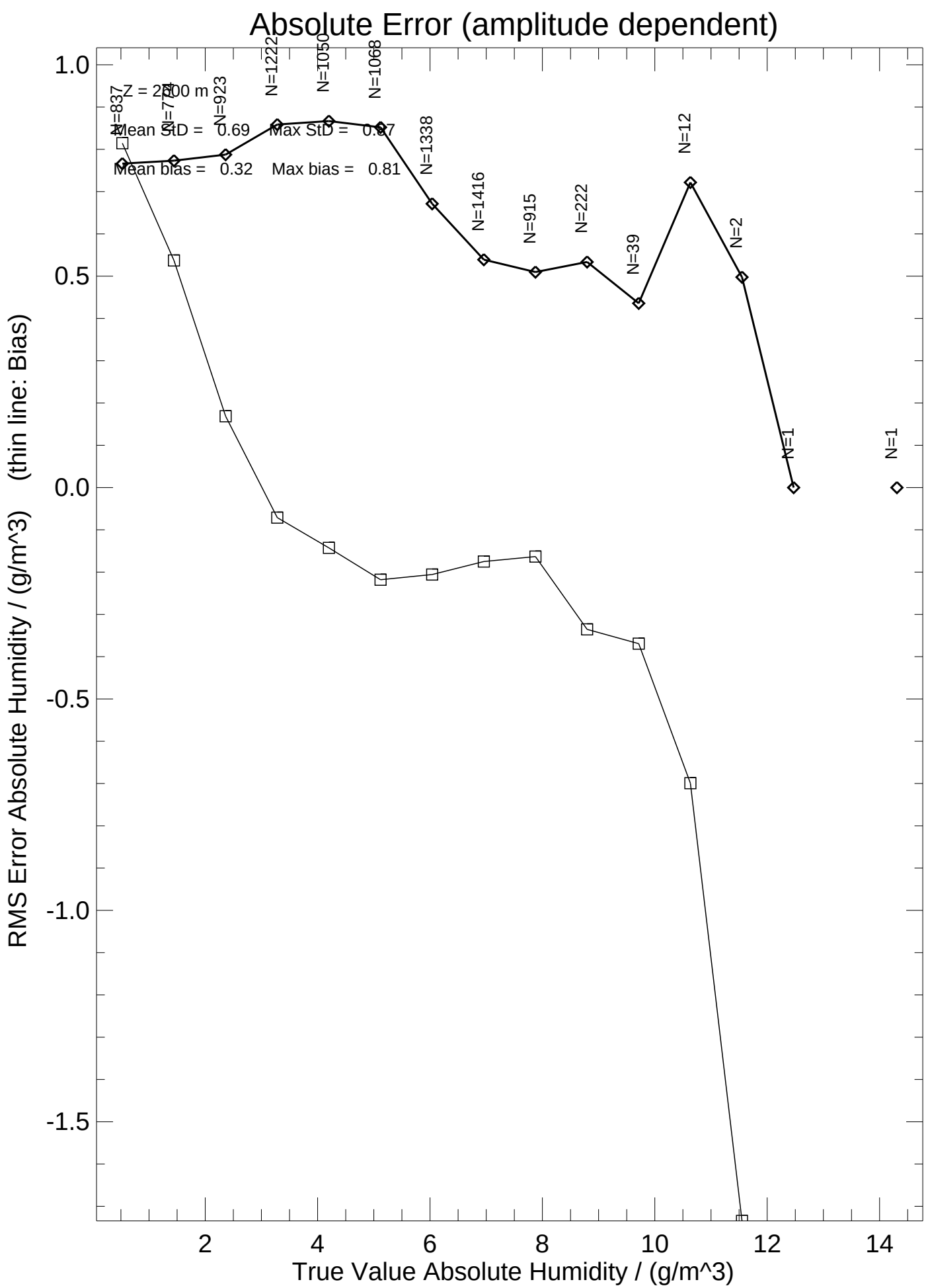

Cor=0.93811 RMS=0.83939 Bias=-0.0055
Z = 2500 m N2=9820
0
2
4
6
8
10
12
14

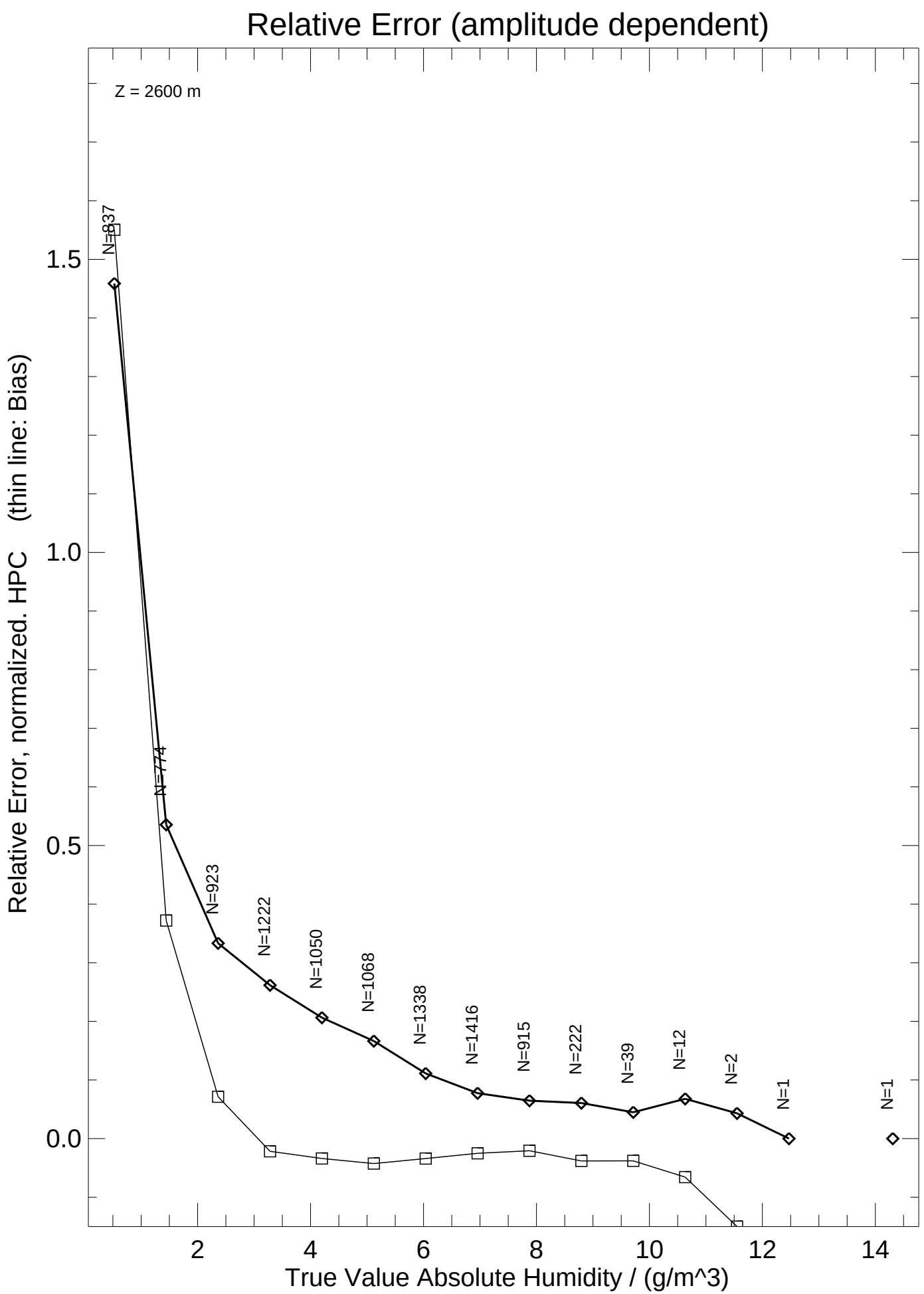

Absolute Error (amplitude dependent)
Z = 2500 m
Mean StD = 0.72 Max StD = 0.92
Mean bias = 0.34 Max bias = 0.90
N=745
N=728
N=810
N=1169
N=1136
N=1035
N=1249
N=1426
N=1085
N=344
N=70
N=17
N=4
N=1
N=1
1.0
0.5
0.0
-0.5
-1.0
2
4
6
8
10
12
14
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

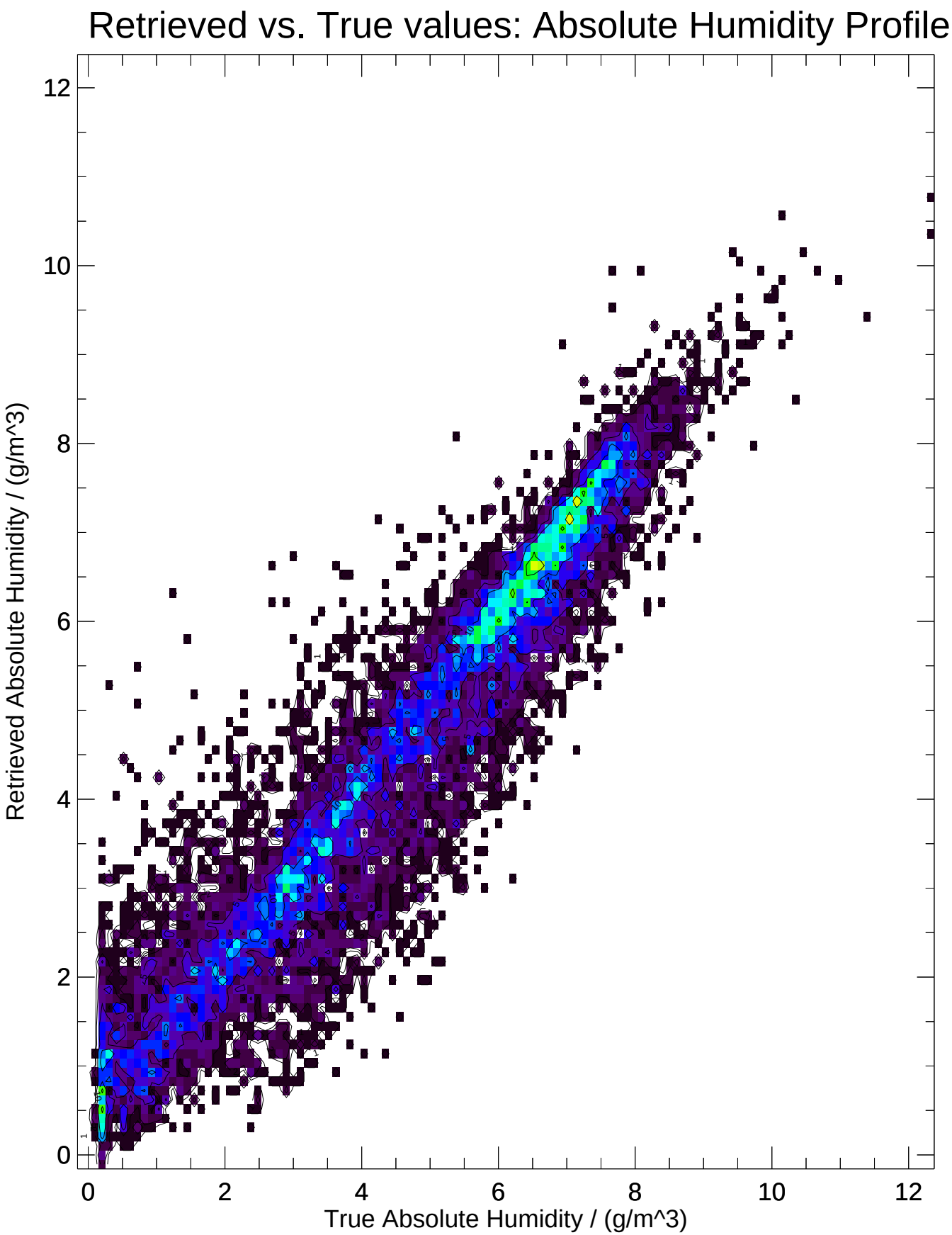

Relative Error (amplitude dependent)
Z = 2500 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2.0
1.5
1.0
0.5
0.0
2
4
6
8
10
12
14
N=745
N=728
N=810
N=1169
N=1136
N=1035
N=1249
N=1426
N=1085
N=344
N=70
N=17
N=4
N=1
N=1

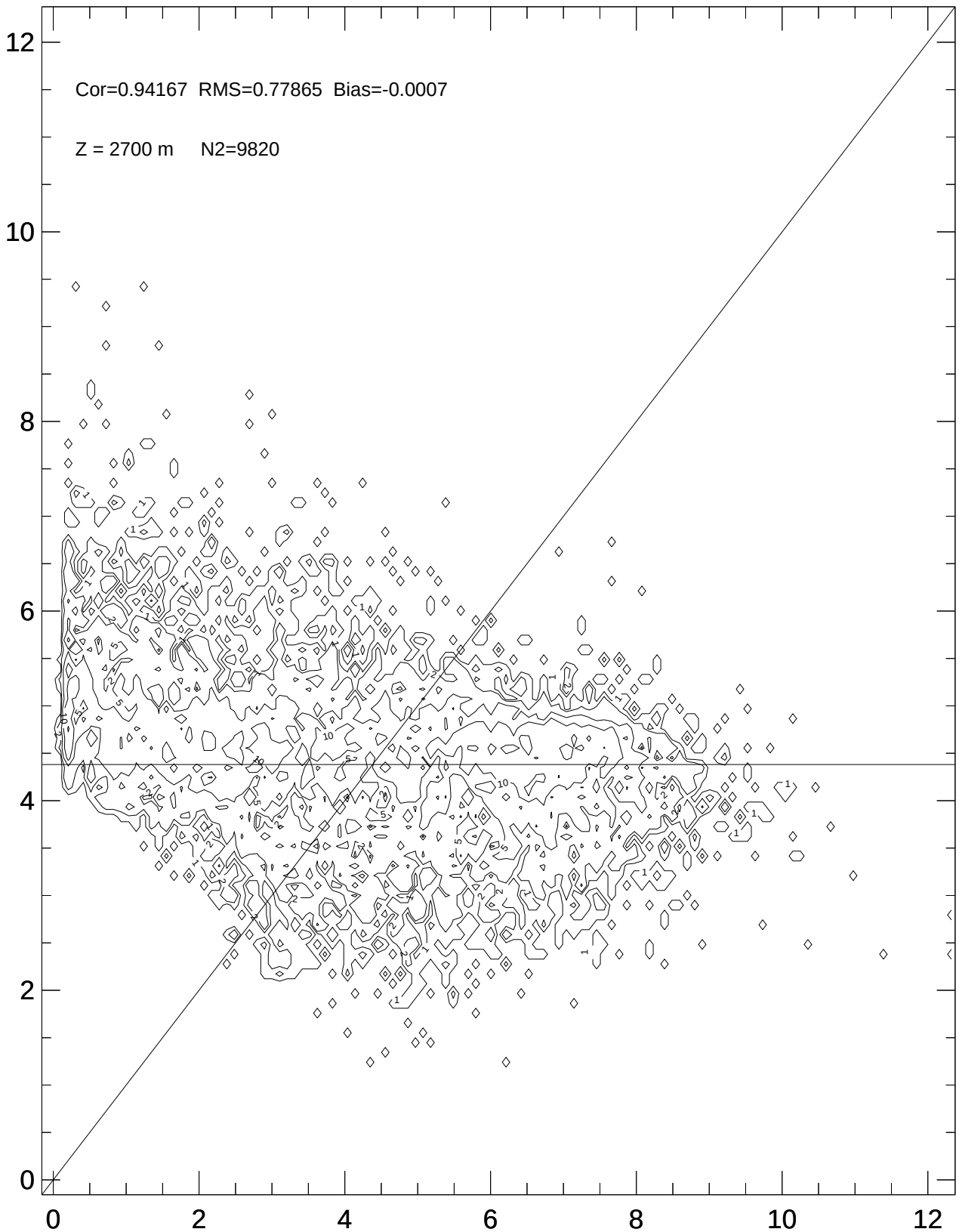

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12
14

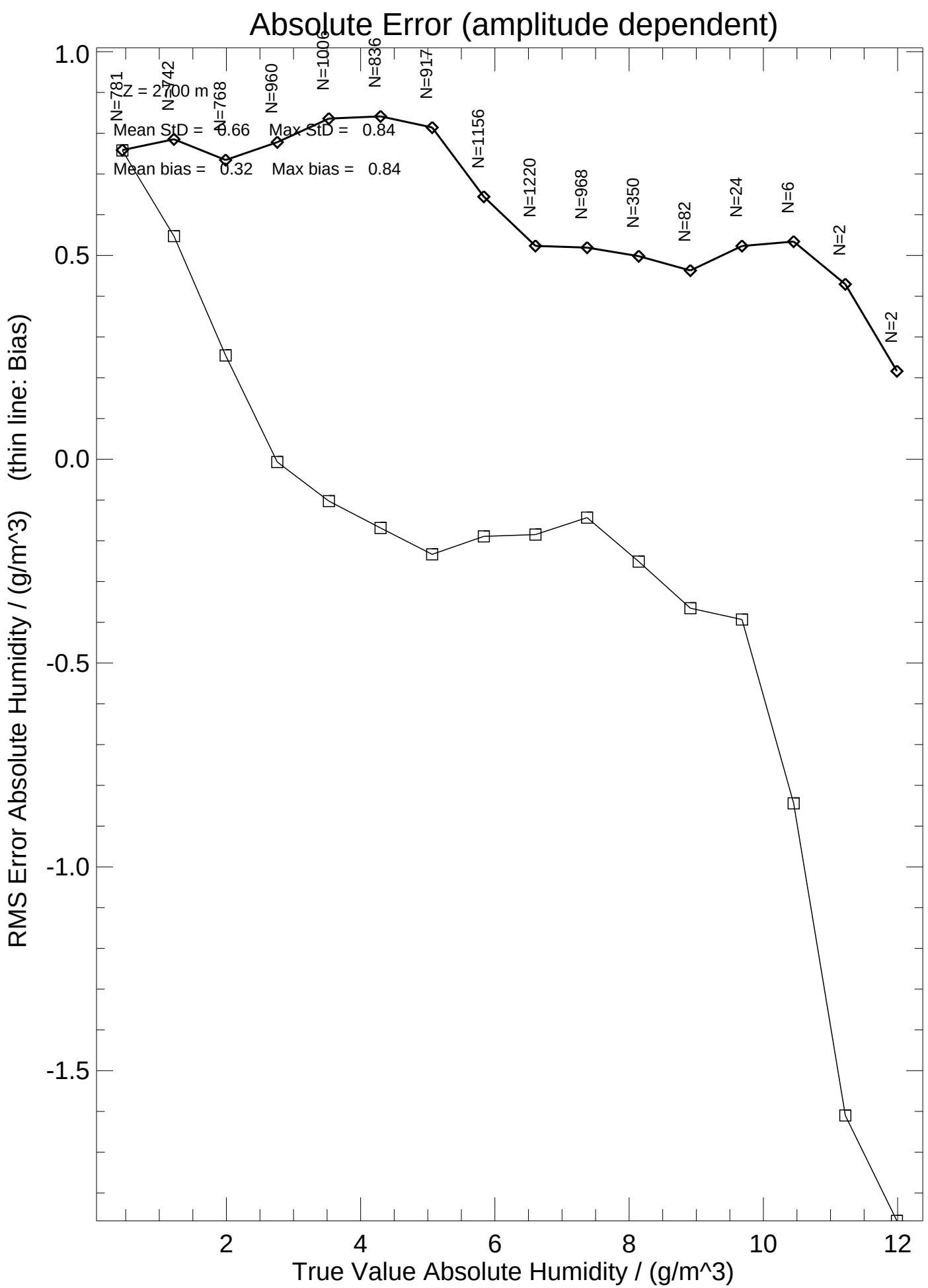

Cor=0.94022 RMS=0.80672 Bias=-0.0005
Z = 2600 m N2=9820
0
2
4
6
8
10
12
14

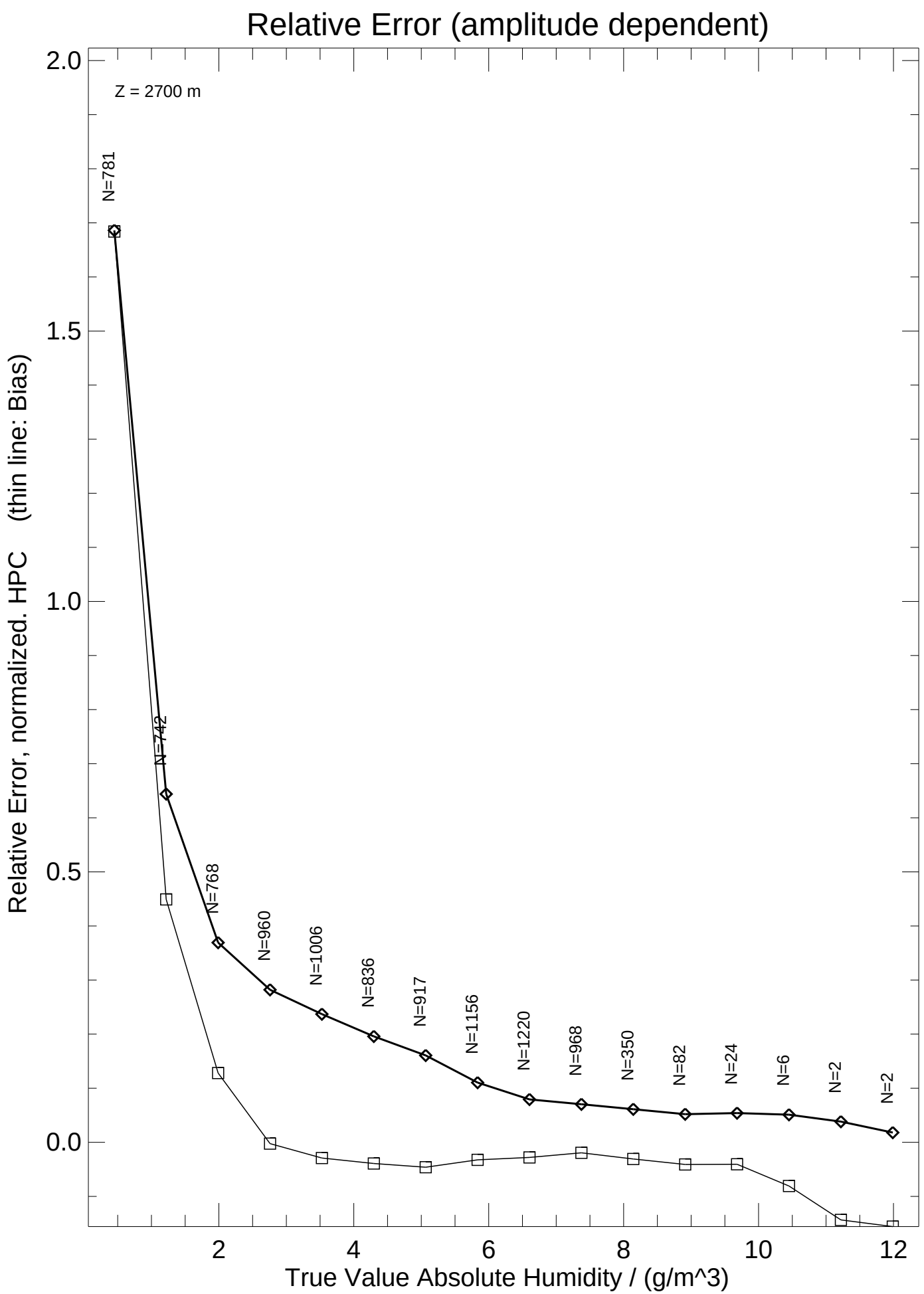

Absolute Error (amplitude dependent)
Z = 2200 m
Mean StD = 0.69 Max StD = 0.87
Mean bias = 0.32 Max bias = 0.81
N=837
N=923
N=1222
N=1050
N=1068
N=1338
N=1416
N=915
N=222
N=39
N=12
N=2
N=1
N=1
1.0
0.5
0.0
-0.5
-1.0
-1.5
2
4
6
8
10
12
14
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

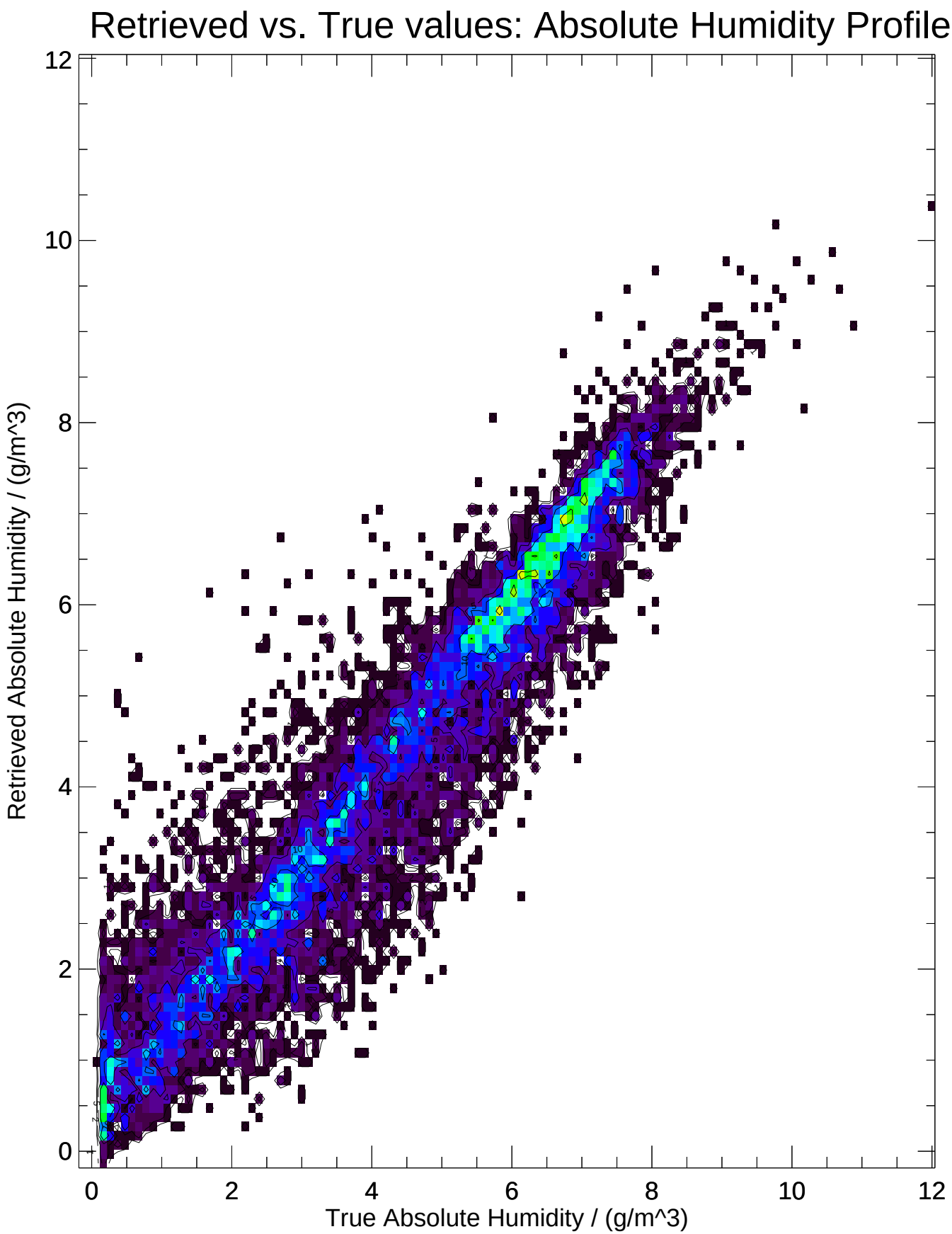

Relative Error (amplitude dependent)
Z = 2600 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
2
4
6
8
10
12
14
N=837
N=774
N=923
N=1222
N=1050
N=1068
N=1338
N=1416
N=915
N=222
N=39
N=12
N=2
N=1
N=1

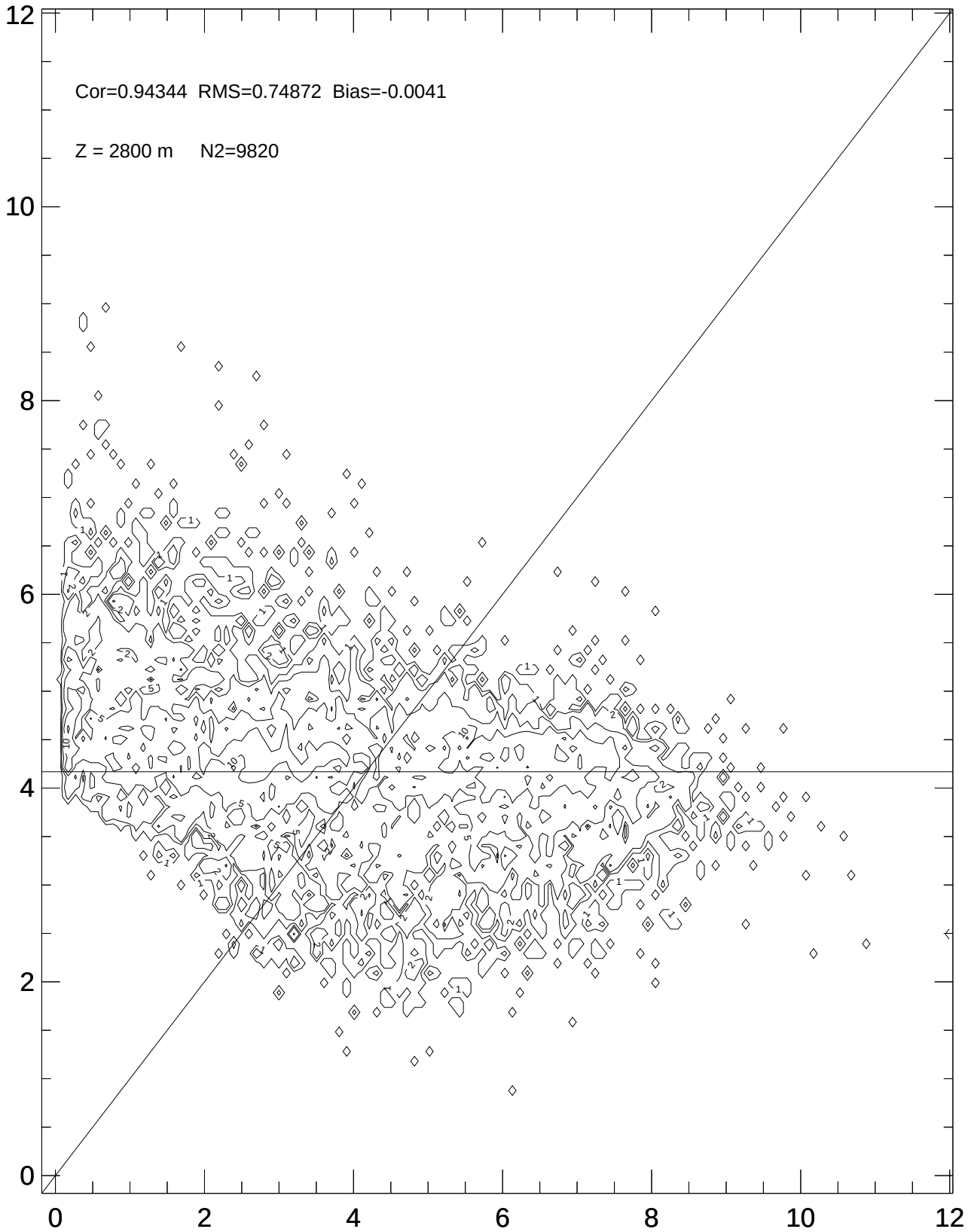

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12

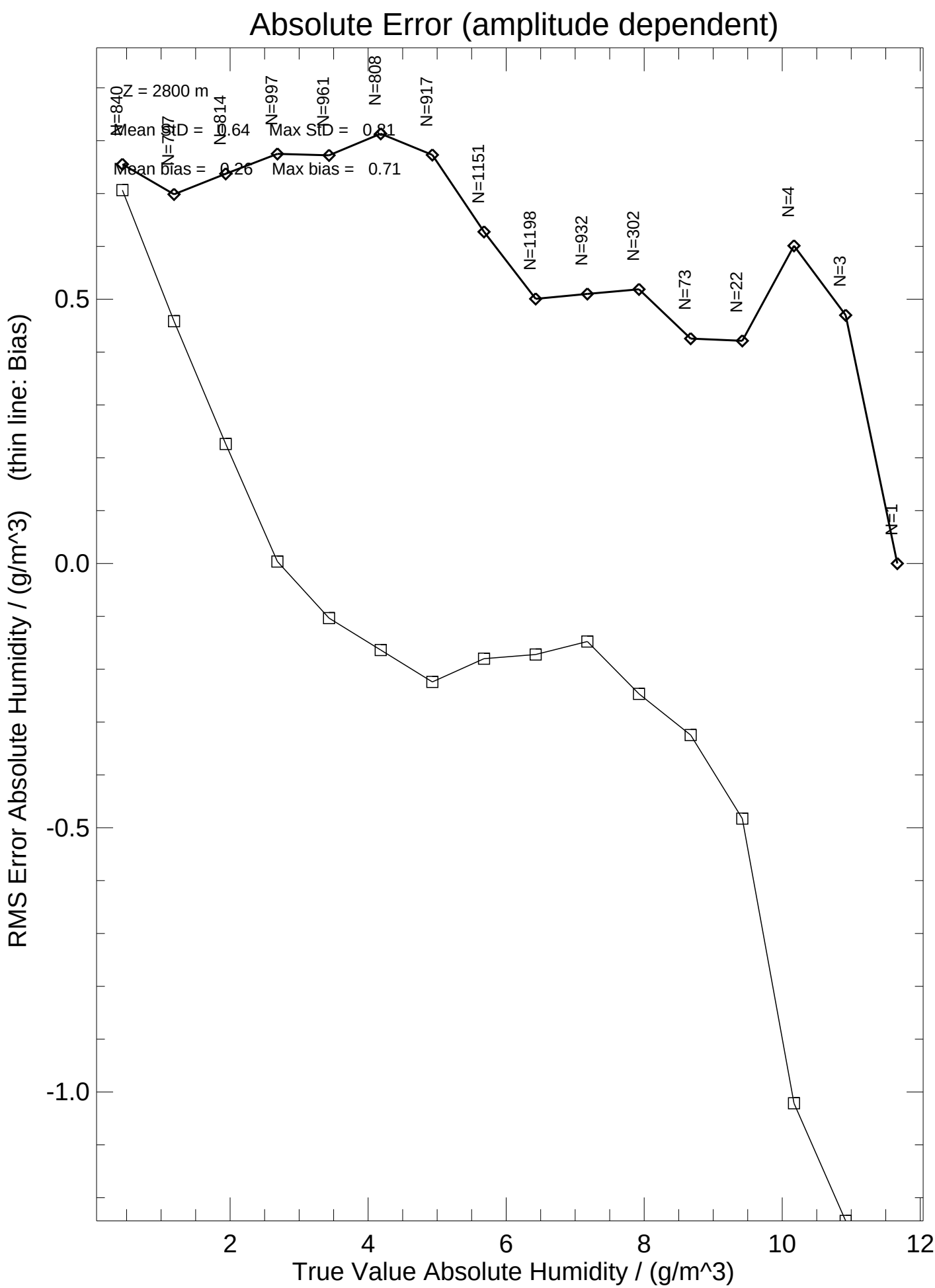

Cor=0.94167 RMS=0.77865 Bias=-0.0007
Z = 2700 m N2=9820
0
2
4
6
8
10
12

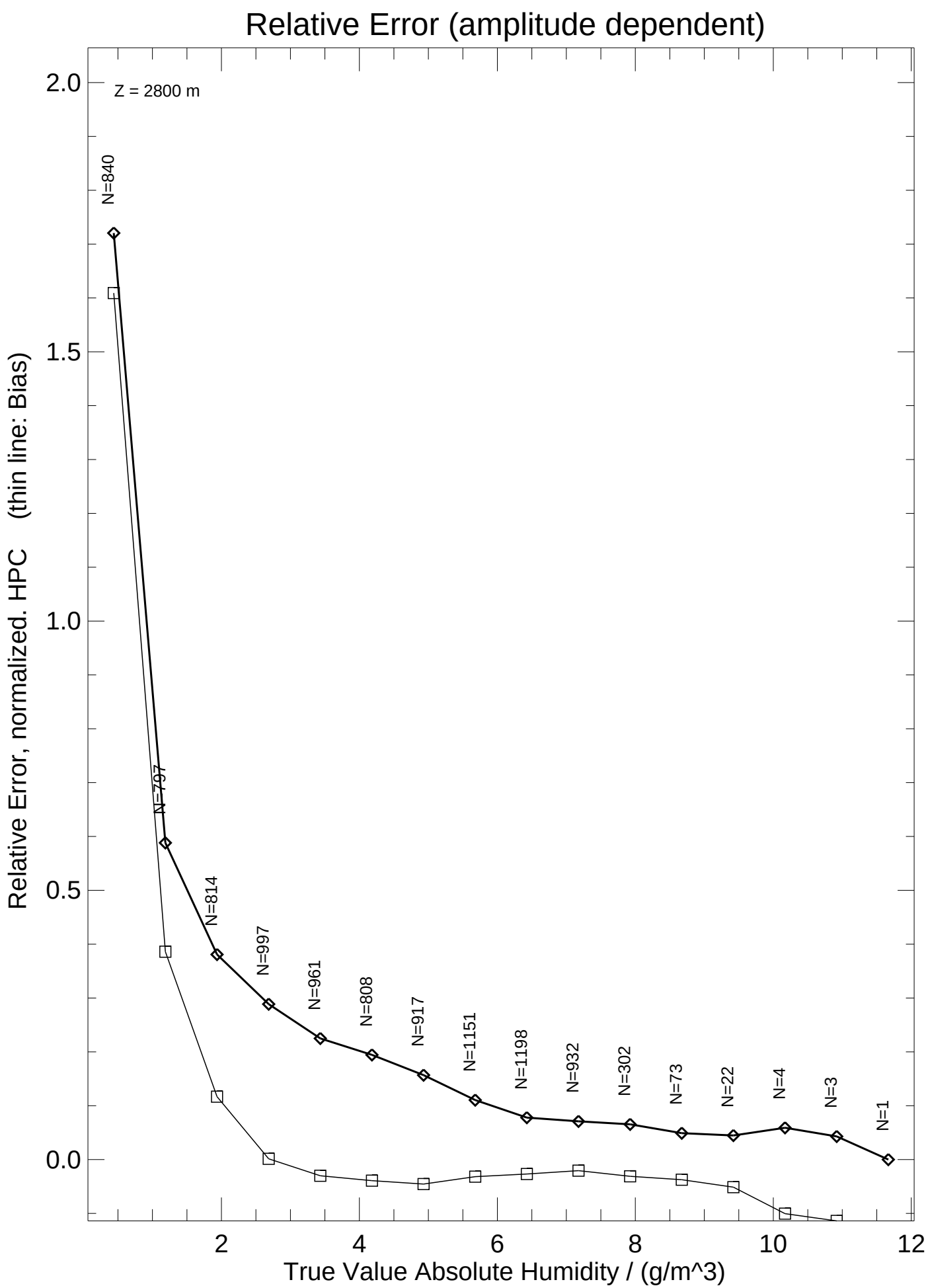

Absolute Error (amplitude dependent)
Z = 2700 m
Mean StD = 0.66 Max StD = 0.84
Mean bias = 0.32 Max bias = 0.84
N=781
N=742
N=768
N=960
N=1006
N=836
N=917
N=1156
N=1220
N=968
N=350
N=82
N=24
N=6
N=2
N=2
1.0
0.5
0.0
-0.5
-1.0
-1.5
2
4
6
8
10
12
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

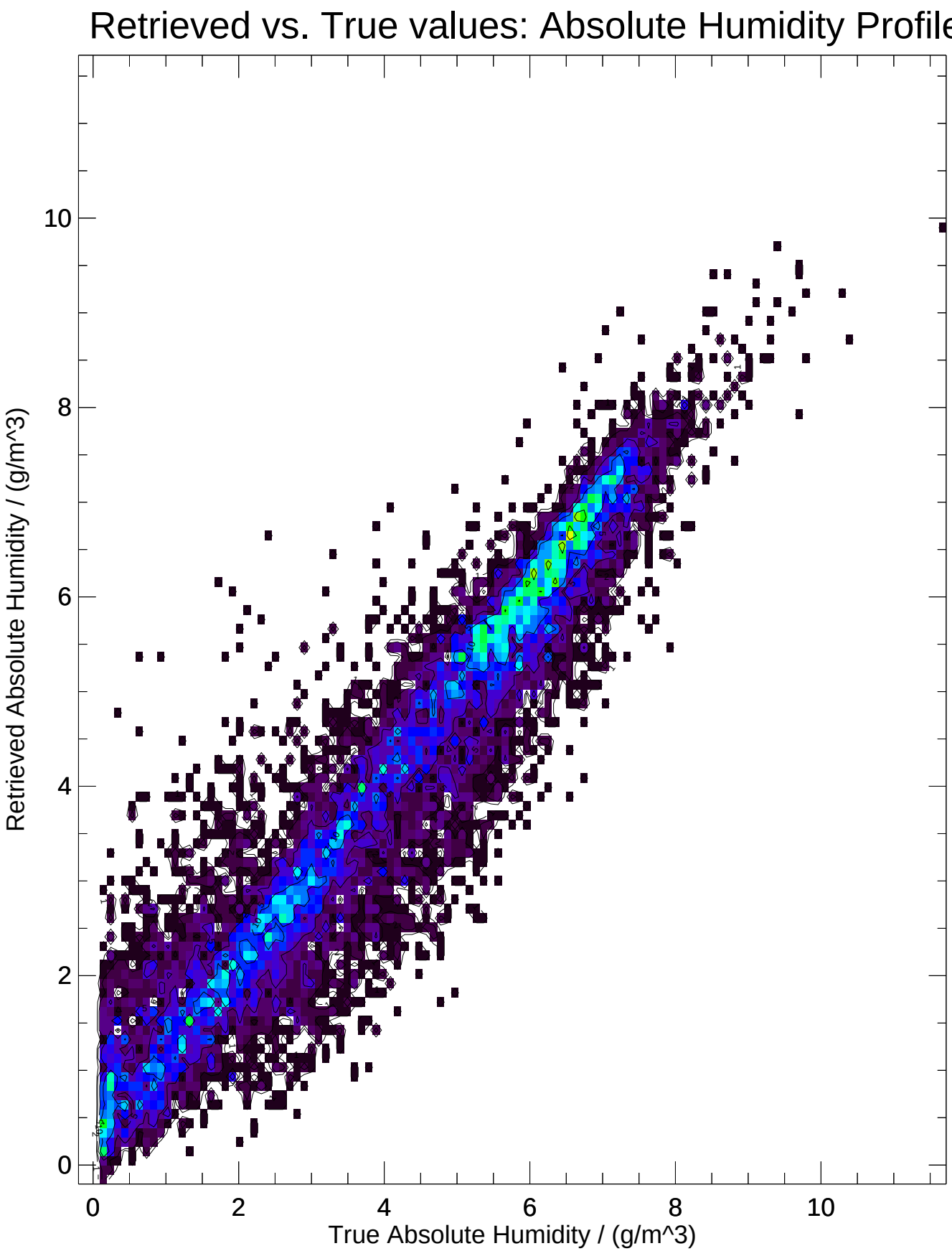

Relative Error (amplitude dependent)
Z = 2700 m
N=781
N=742
N=768
N=960
N=1006
N=836
N=917
N=1156
N=1220
N=968
N=350
N=82
N=24
N=6
N=2
N=2
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2.0
1.5
1.0
0.5
0.0
2
4
6
8
10
12

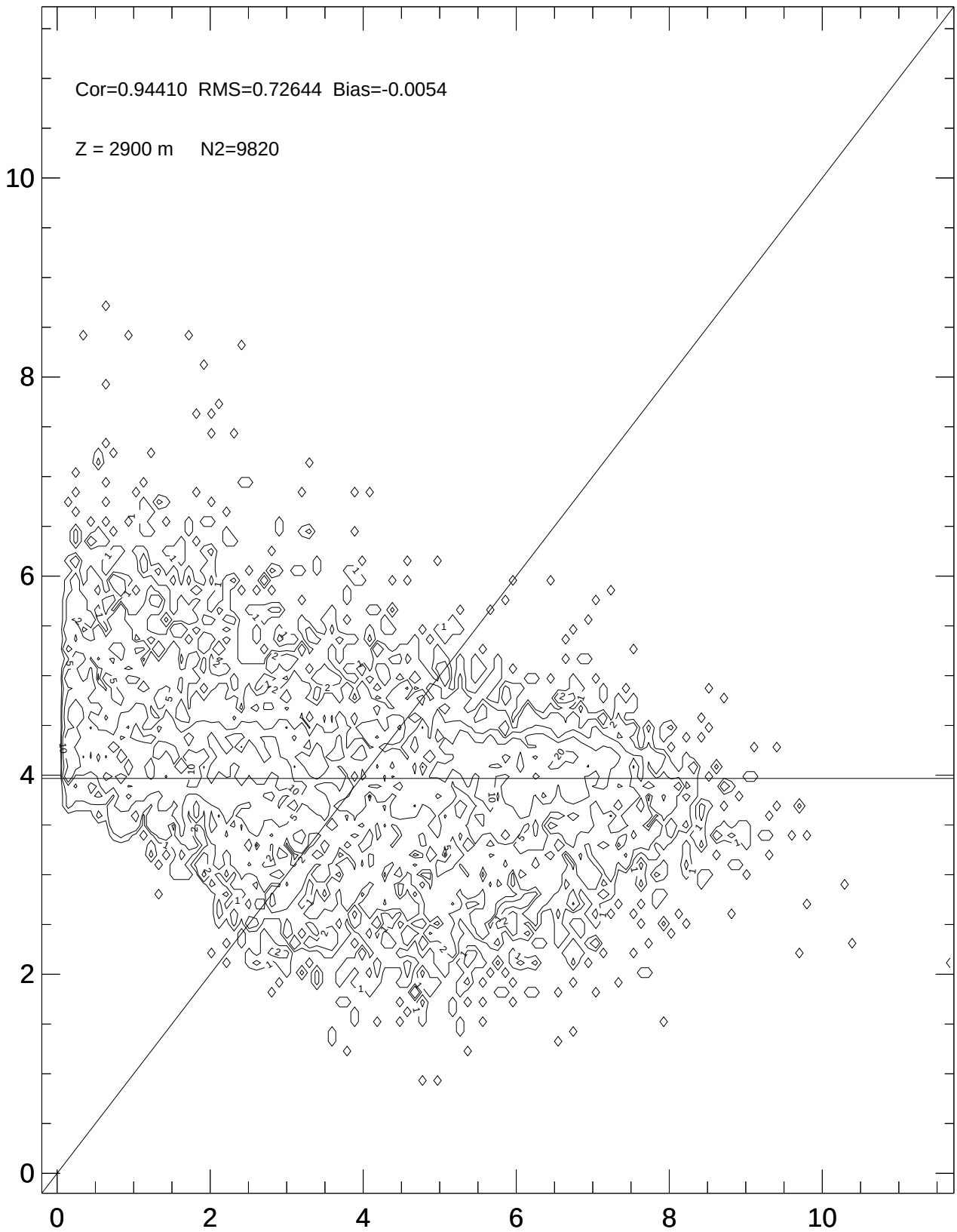

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12

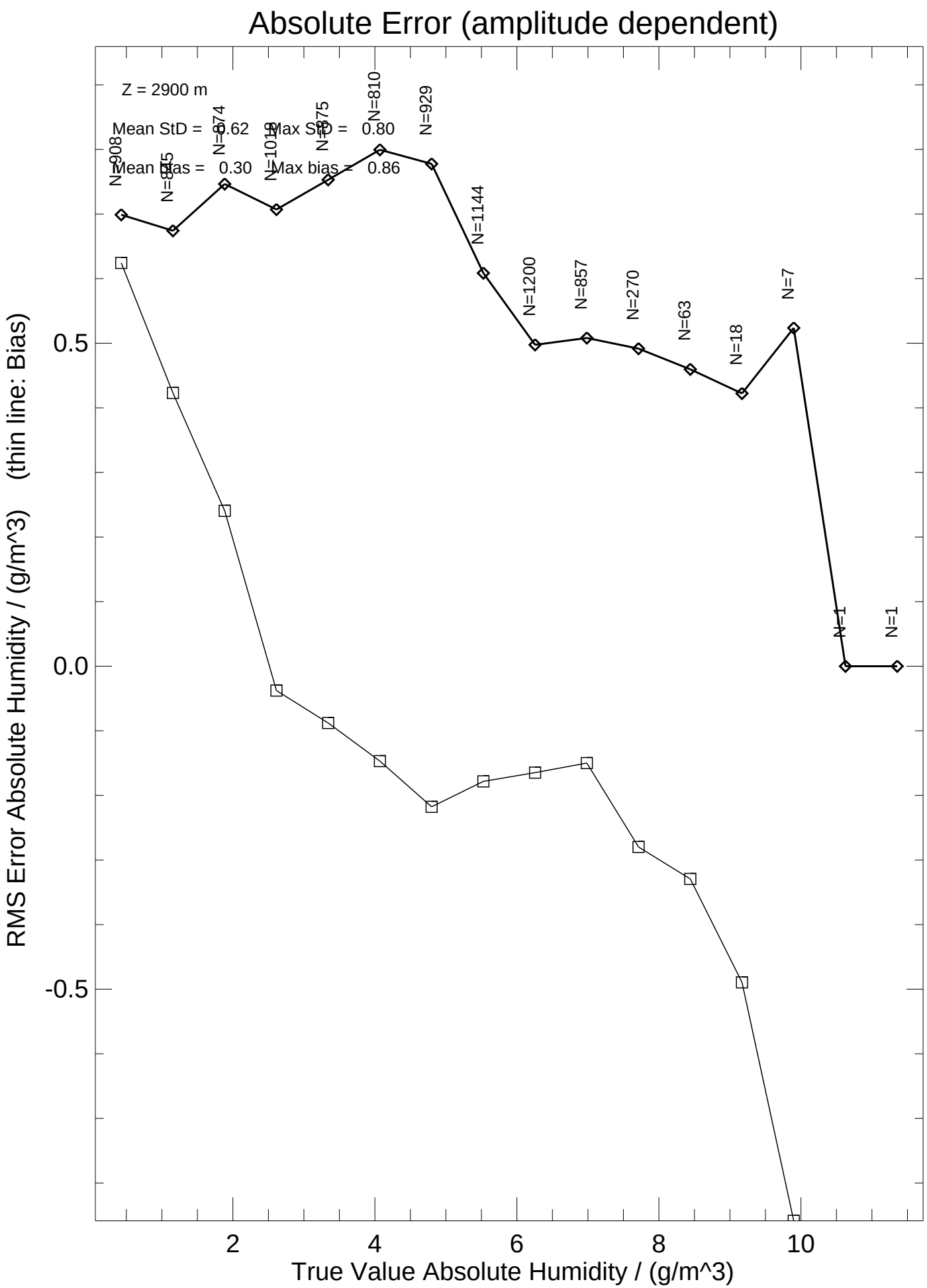

Cor=0.94344 RMS=0.74872 Bias=-0.0041
Z = 2800 m N2=9820
0
2
4
6
8
10
12

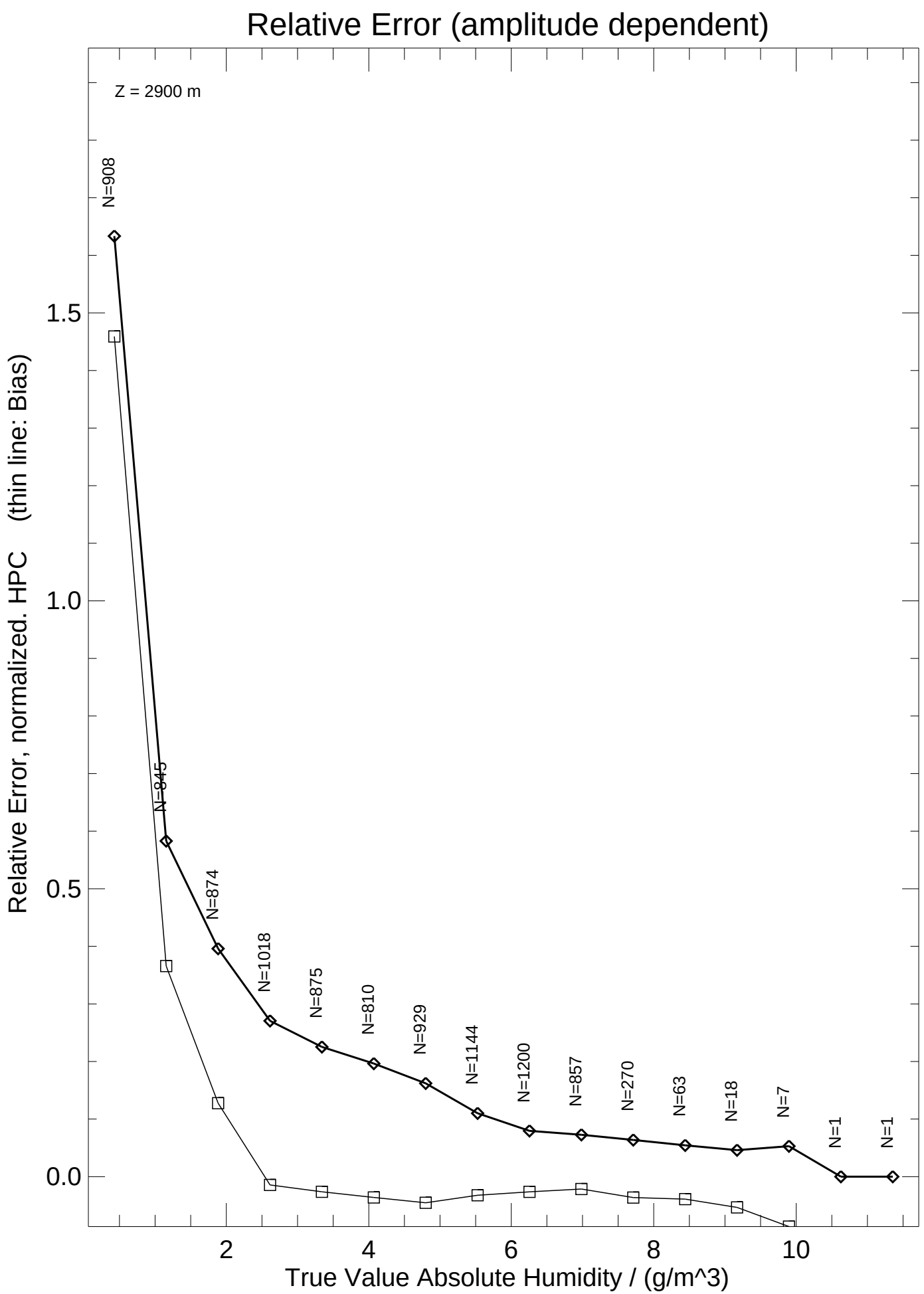

Absolute Error (amplitude dependent)
Z = 2800 m
Mean StD = 0.64 Max StD = 0.81
Mean bias = 0.26 Max bias = 0.71
N=840
N=797
N=814
N=997
N=961
N=808
N=917
N=1151
N=1198
N=932
N=302
N=73
N=22
N=4
N=3
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
0.5
0.0
-0.5
-1.0
2
4
6
8
10
12
True Value Absolute Humidity / (g/m^3)

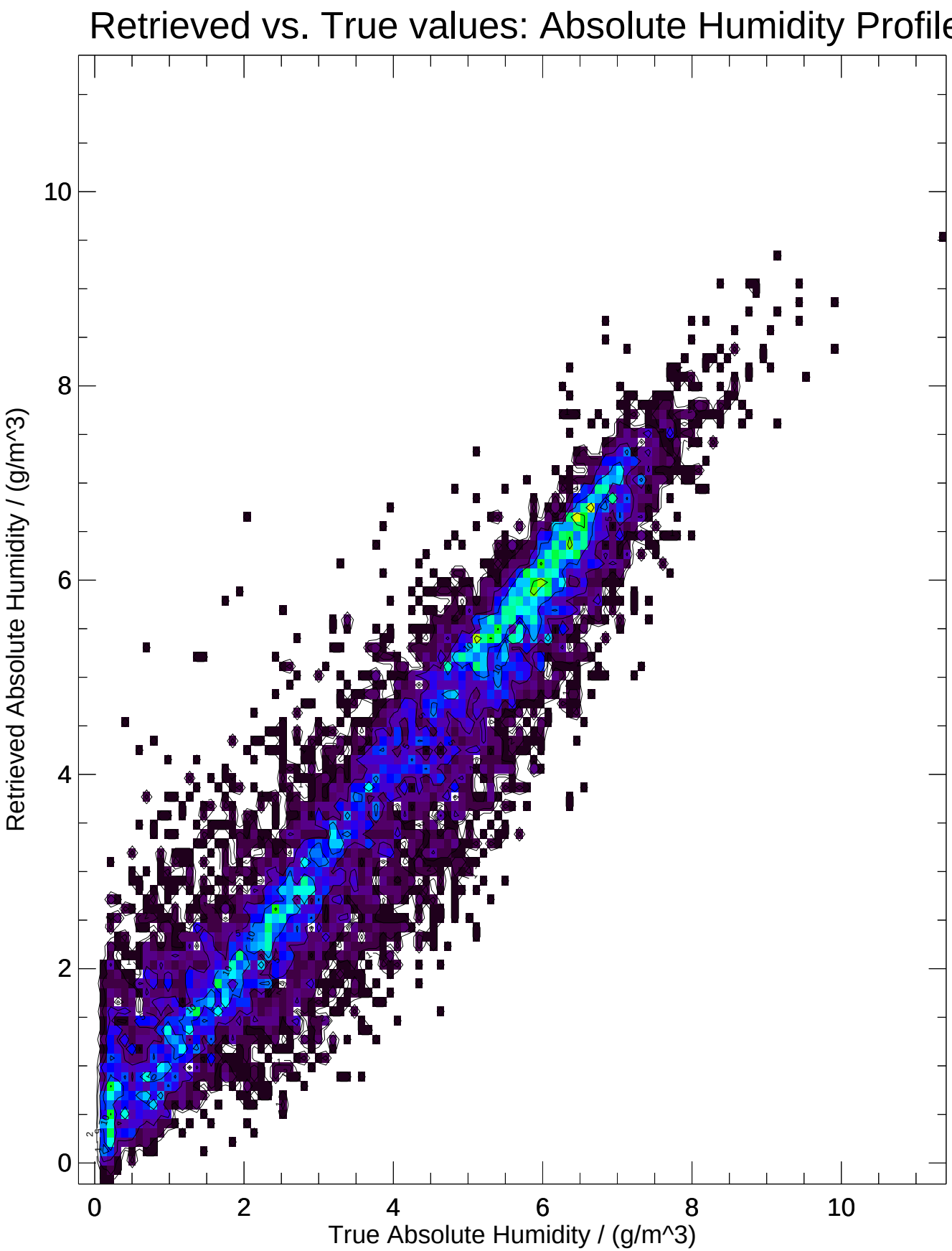

Relative Error (amplitude dependent)
Z = 2800 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
2.0
1.5
1.0
0.5
0.0
2
4
6
8
10
12
N=840
N=797
N=814
N=997
N=961
N=808
N=917
N=1151
N=1198
N=932
N=302
N=73
N=22
N=4
N=3
N=1

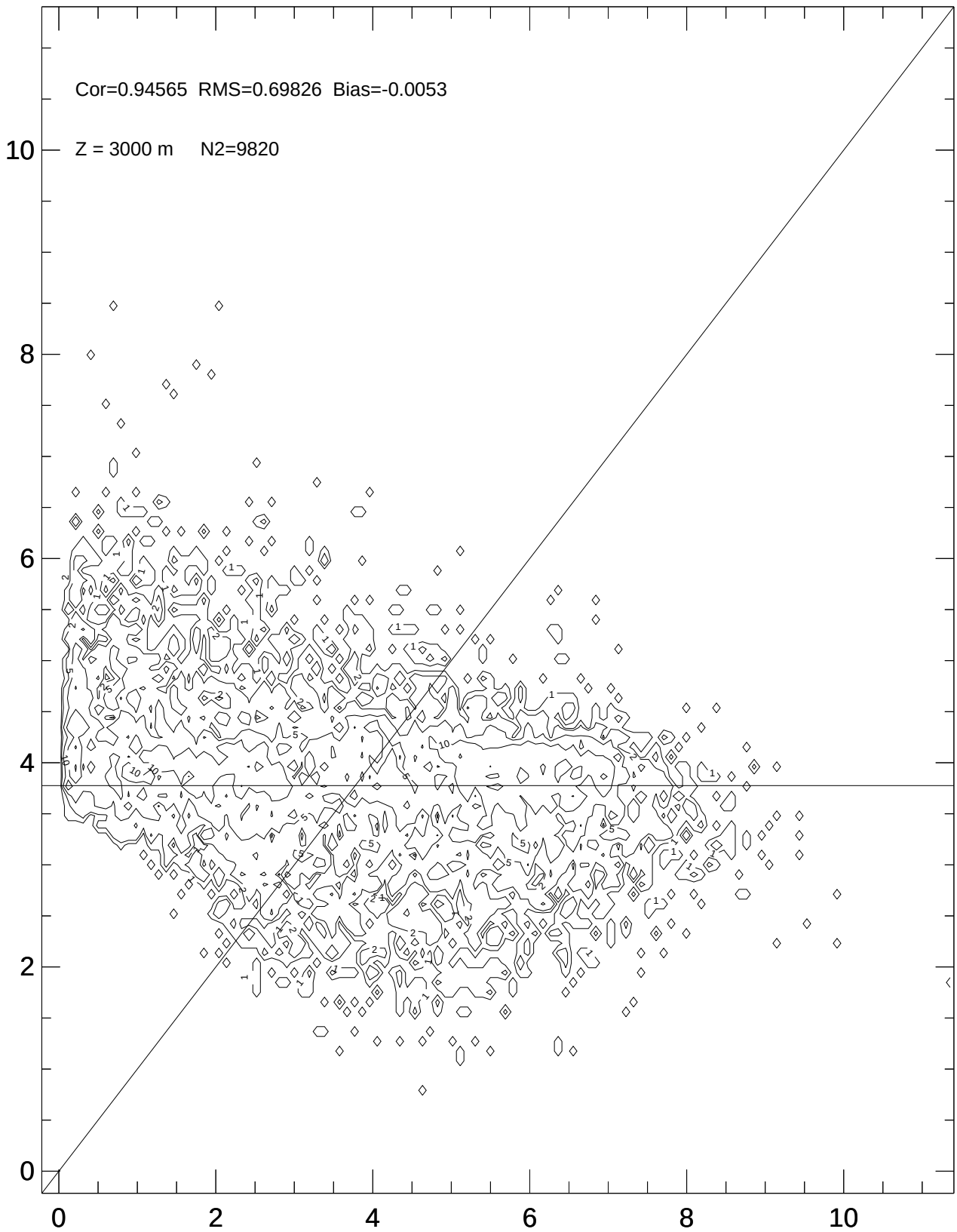

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

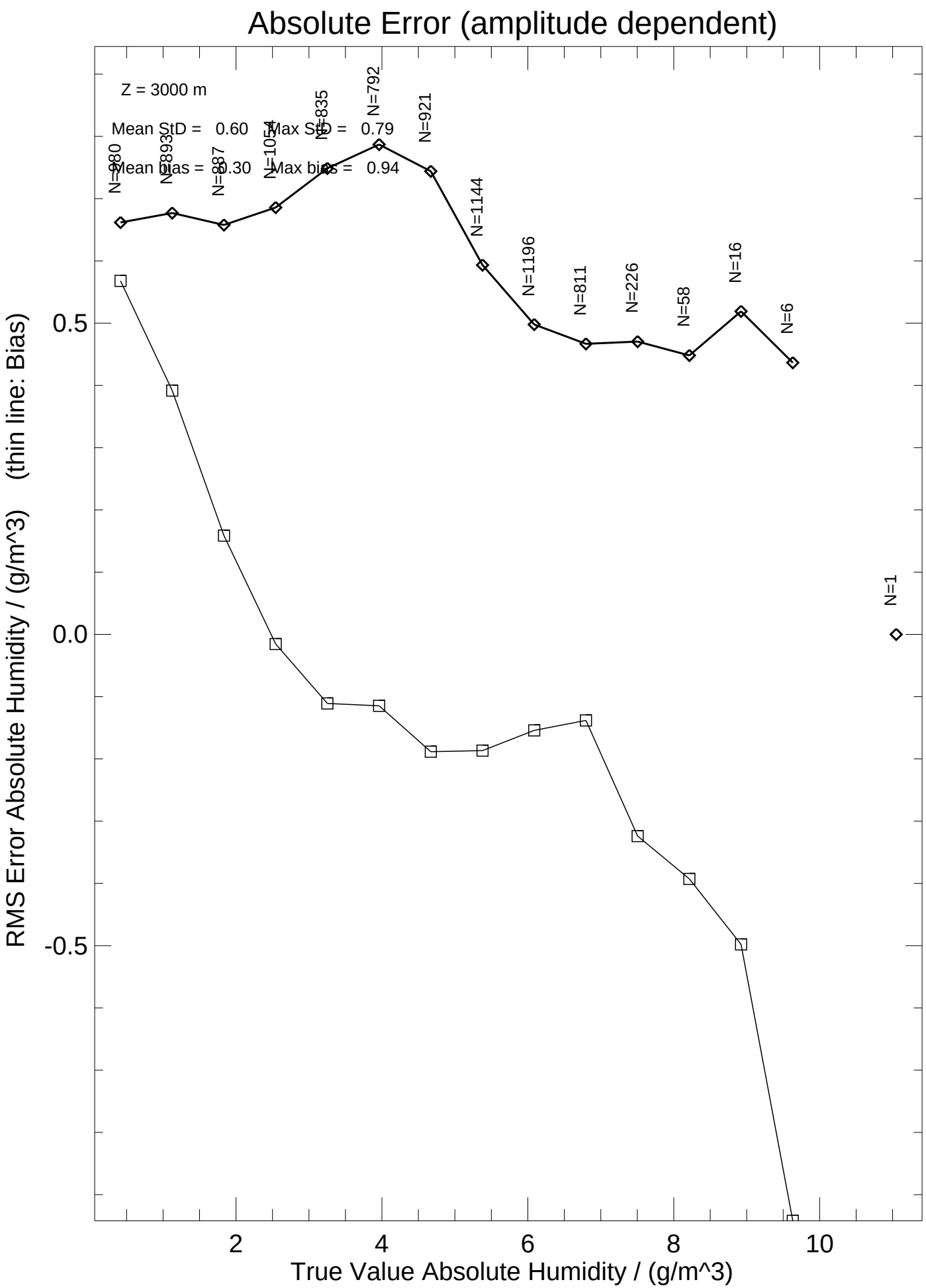

Cor=0.94410 RMS=0.72644 Bias=-0.0054
Z = 2900 m N2=9820
0
2
4
6
8
10
0
2
4
6
8
10

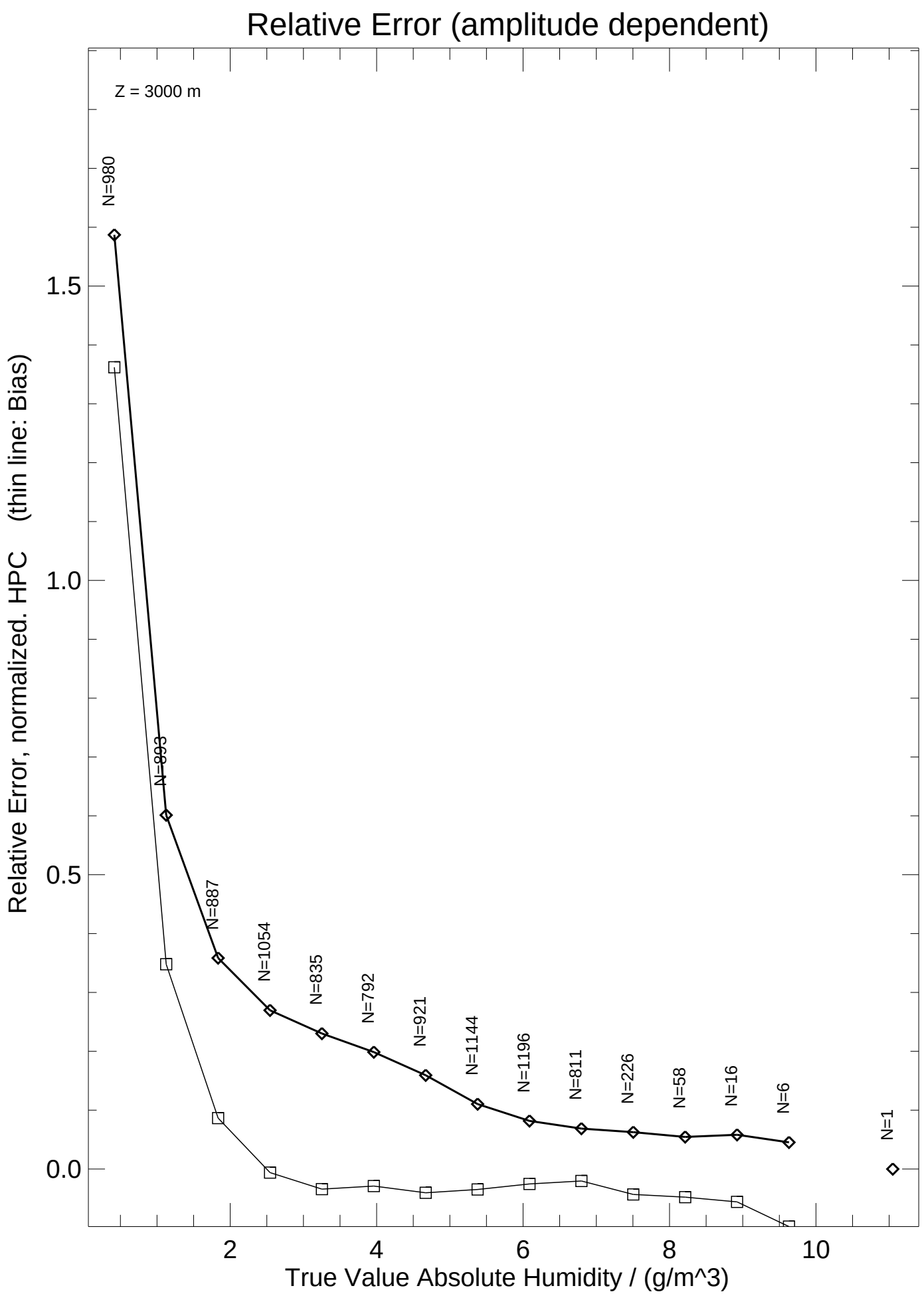

Absolute Error (amplitude dependent)
Z = 2900 m
Mean StD = 0.62 Max StD = 0.80
Mean bias = 0.30 Max bias = 0.86
N=908
N=865
N=874
N=1018
N=875
N=810
N=929
N=1144
N=1200
N=857
N=270
N=63
N=18
N=7
N=1
N=1
0.5
0.0
-0.5
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
2
4
6
8
10
True Value Absolute Humidity / (g/m^3)

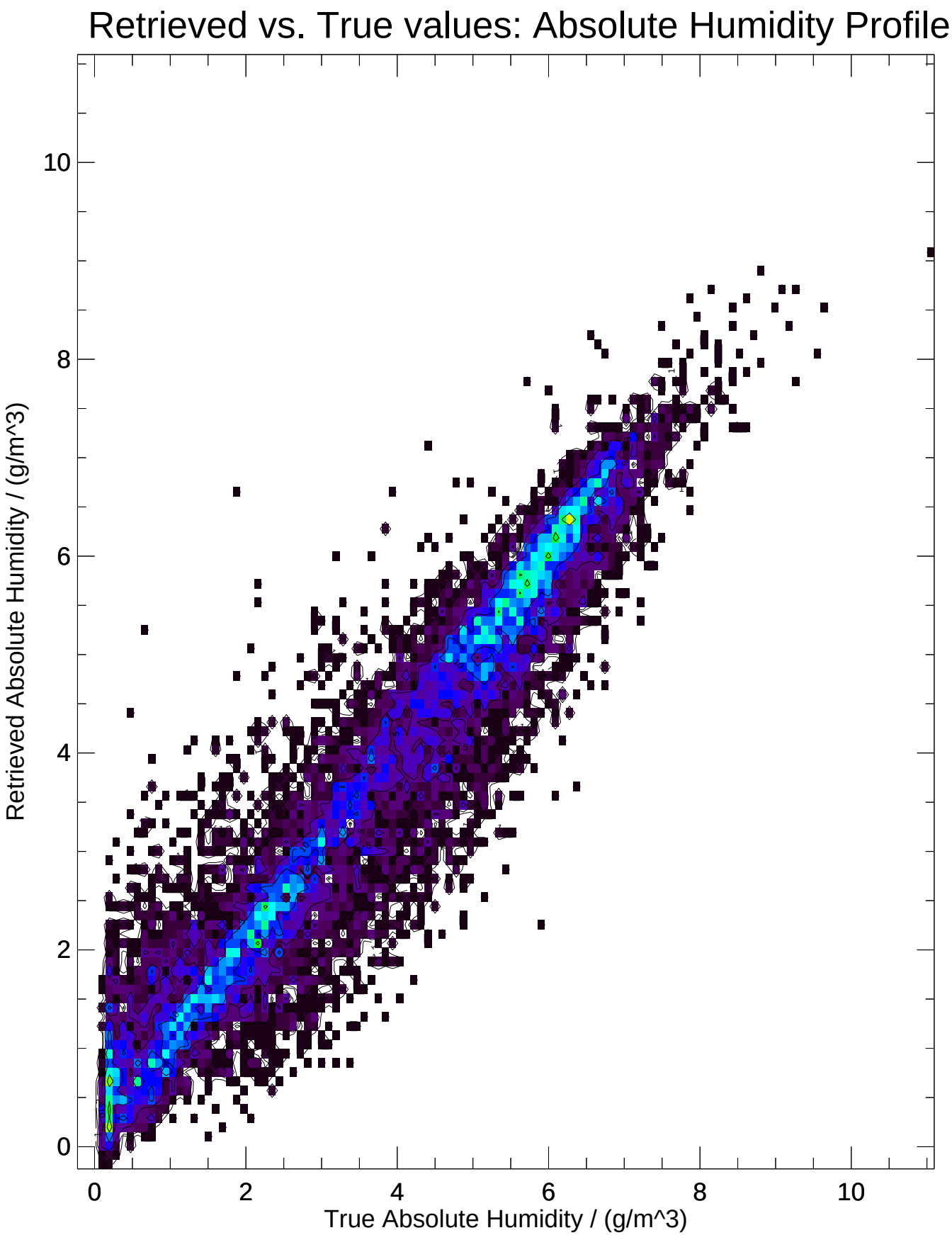

Relative Error (amplitude dependent)
Z = 2900 m
N=908
N=845
N=874
N=1018
N=875
N=810
N=929
N=1144
N=1200
N=857
N=270
N=63
N=18
N=7
N=1
N=1
1.5
1.0
0.5
0.0
2
4
6
8
10
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

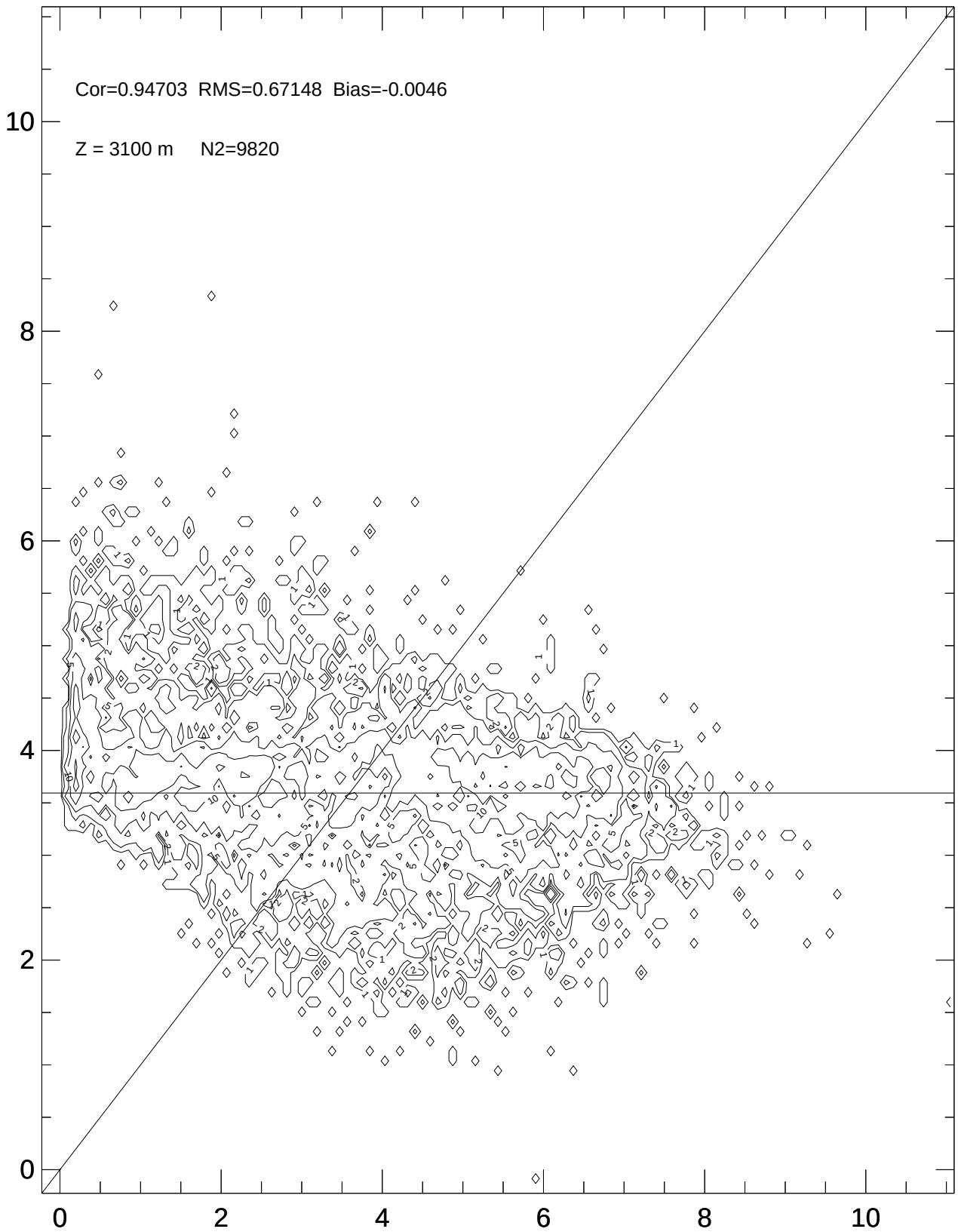

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

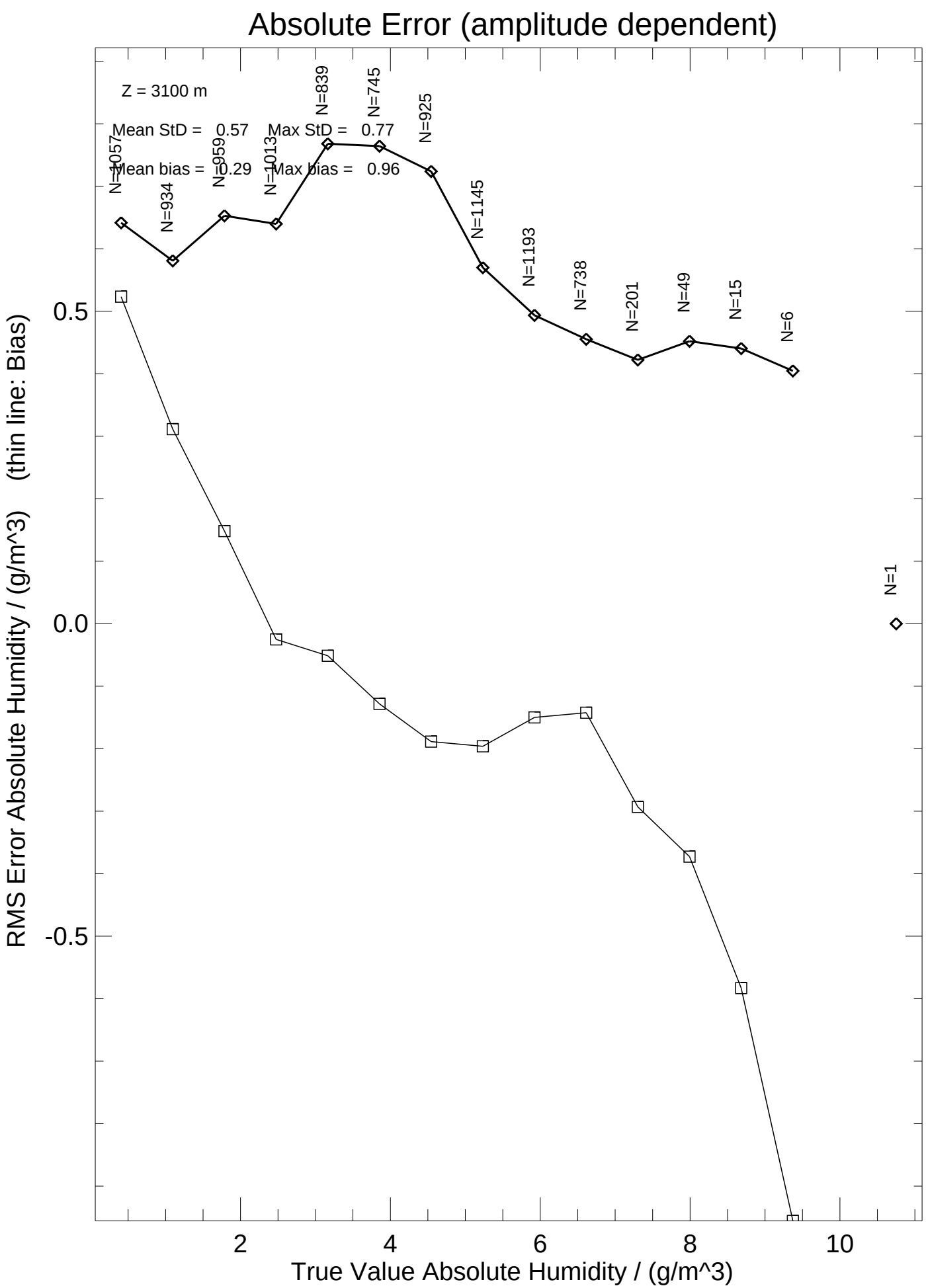

Cor=0.94565 RMS=0.69826 Bias=-0.0053
Z = 3000 m N2=9820
0
2
4
6
8
10
0
2
4
6
8
10

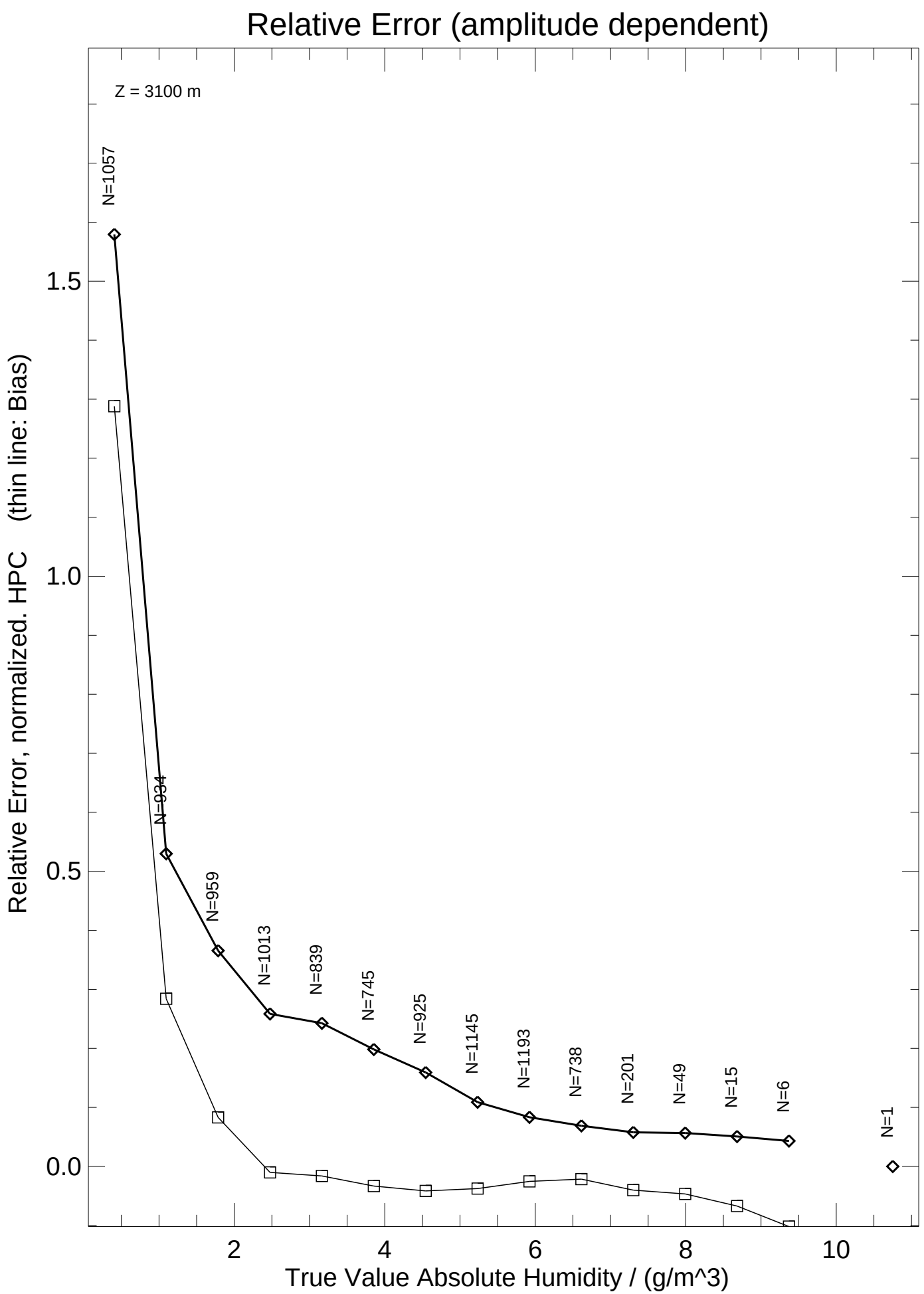

Absolute Error (amplitude dependent)
Z = 3000 m
Mean StD = 0.60 Max StD = 0.79
Mean bias = 0.30 Max bias = 0.94
N=880
N=893
N=887
N=1054
N=835
N=792
N=921
N=1144
N=1196
N=811
N=226
N=58
N=16
N=6
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
0.5
0.0
-0.5
2
4
6
8
10
True Value Absolute Humidity / (g/m^3)

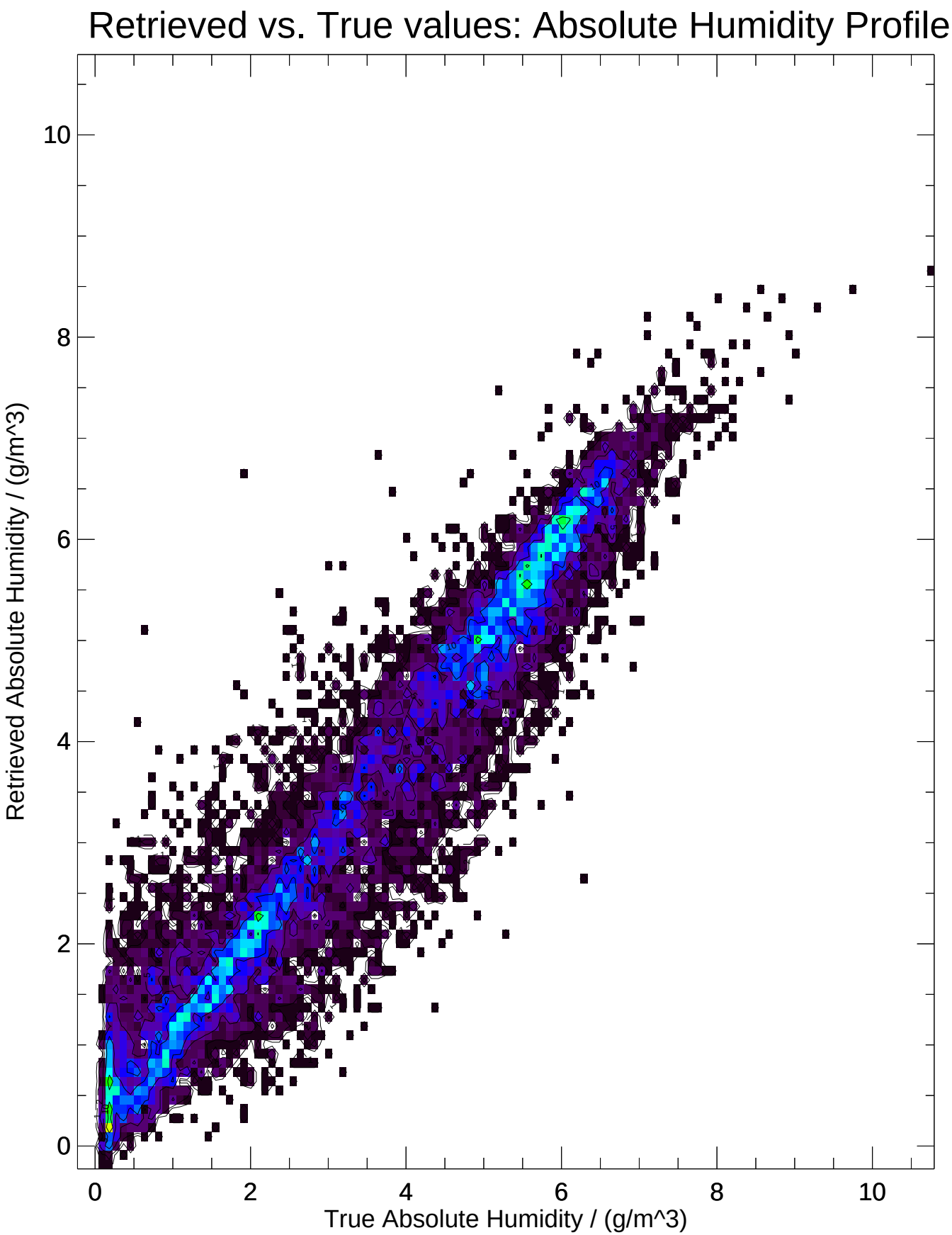

Relative Error (amplitude dependent)
Z = 3000 m
N=980
N=893
N=887
N=1054
N=835
N=792
N=921
N=1144
N=1196
N=811
N=226
N=58
N=16
N=6
N=1
1.5
1.0
0.5
0.0
2
4
6
8
10
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

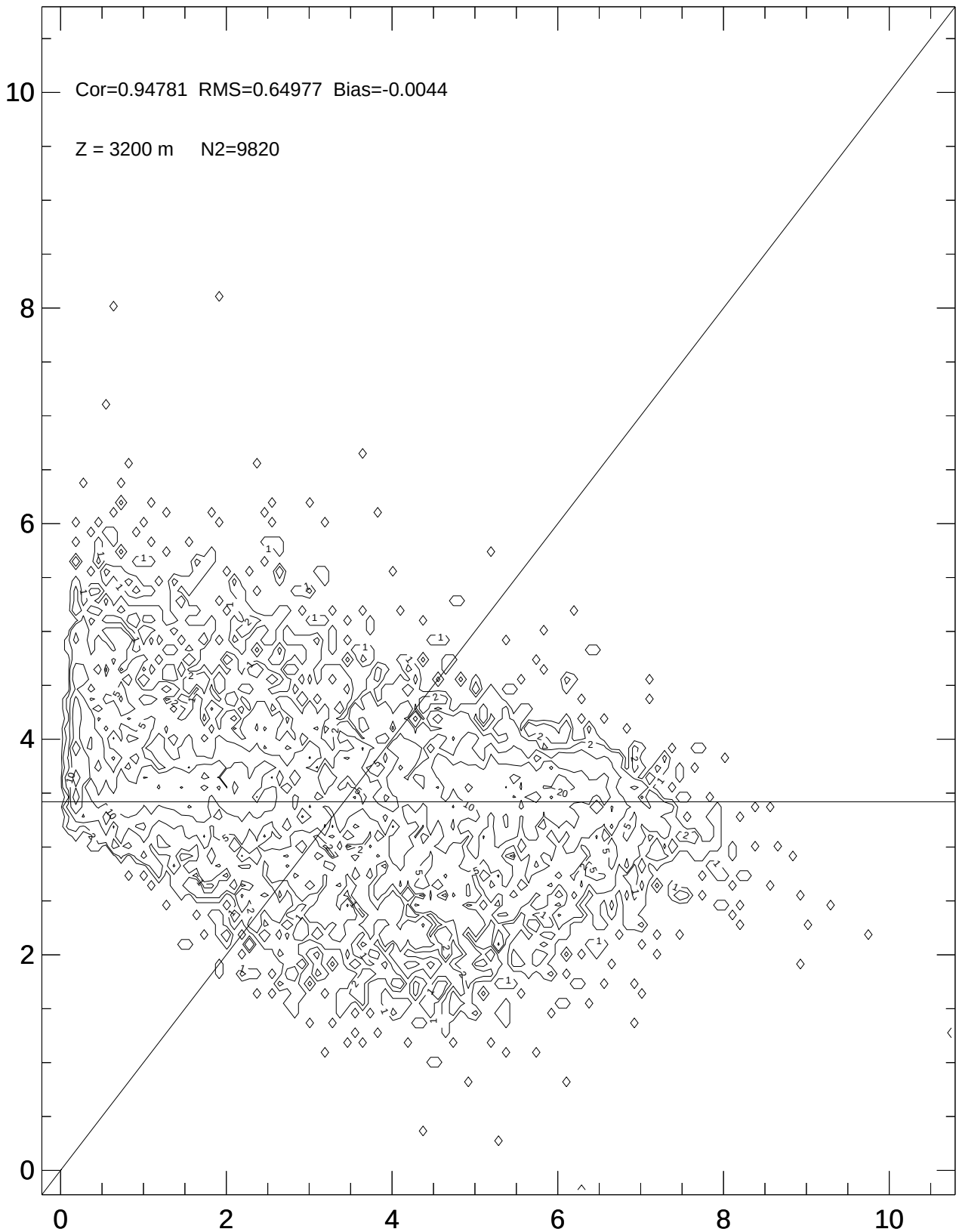

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

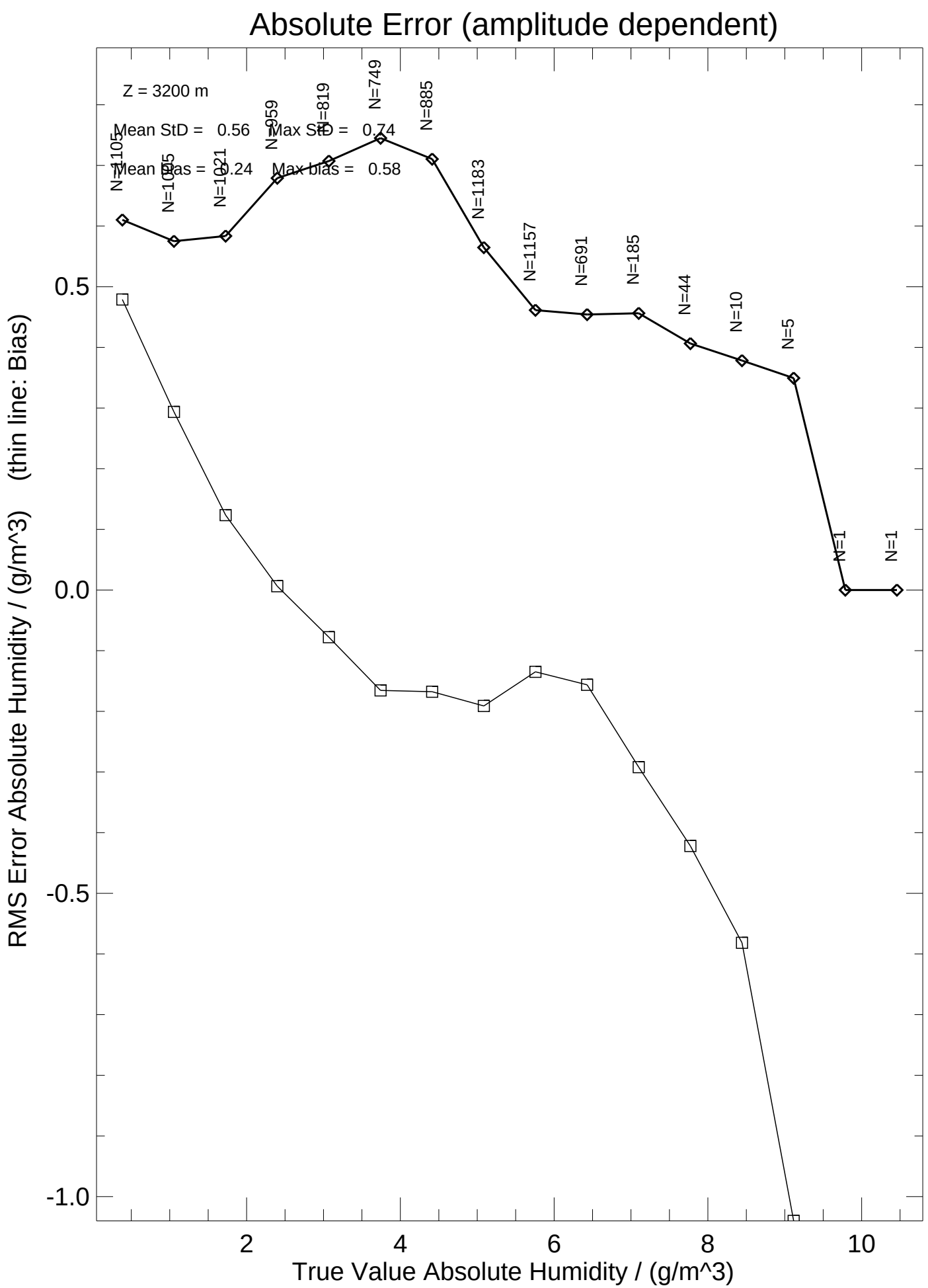

Cor=0.94703 RMS=0.67148 Bias=-0.0046
Z = 3100 m N2=9820
0
2
4
6
8
10

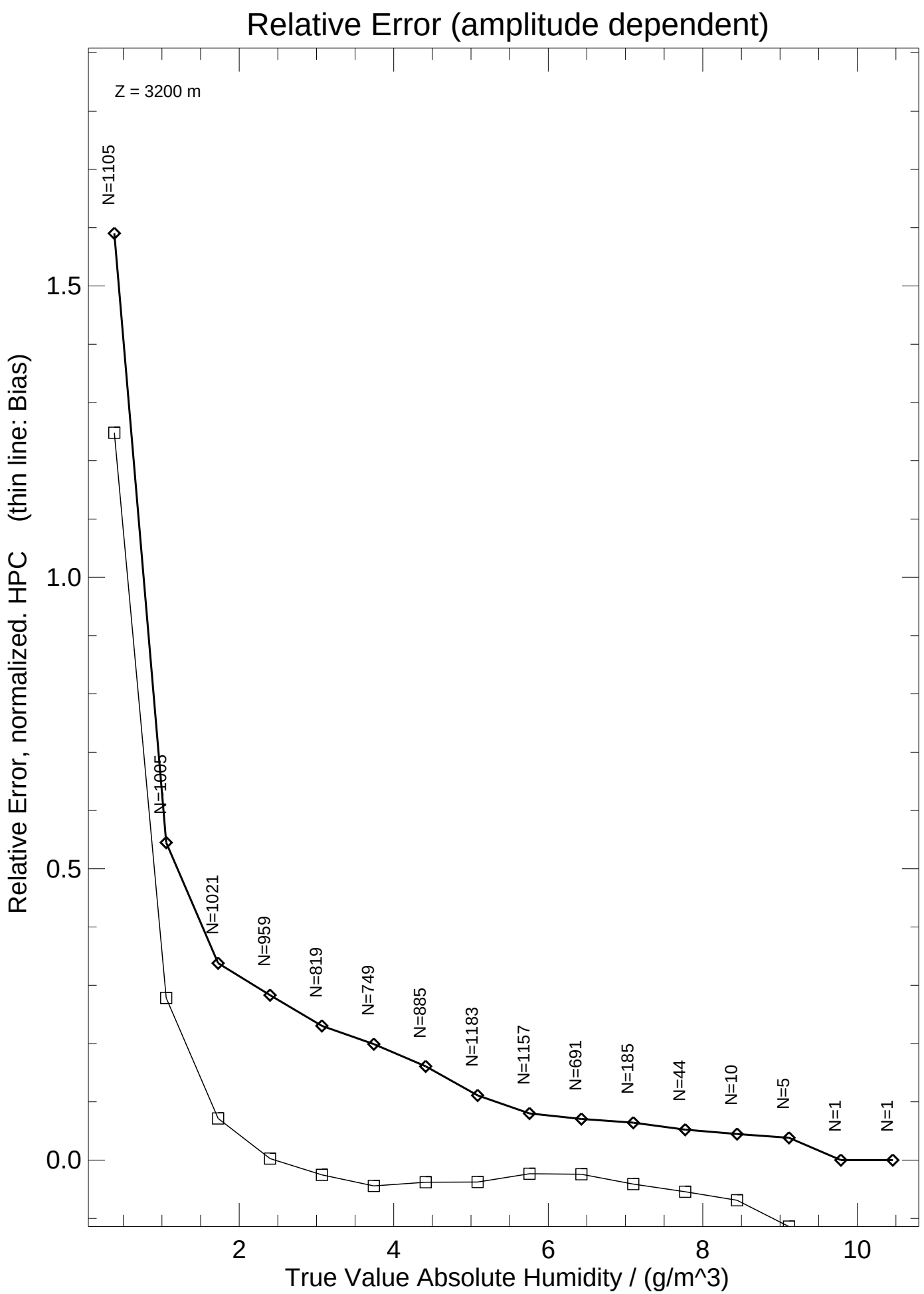

Absolute Error (amplitude dependent)
Z = 3100 m
Mean StD = 0.57 Max StD = 0.77
Mean bias = -0.29 Max bias = 0.96
N=1057
N=934
N=959
N=1013
N=839
N=745
N=925
N=1145
N=1193
N=738
N=201
N=49
N=15
N=6
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.5
0.0
-0.5
2
4
6
8
10

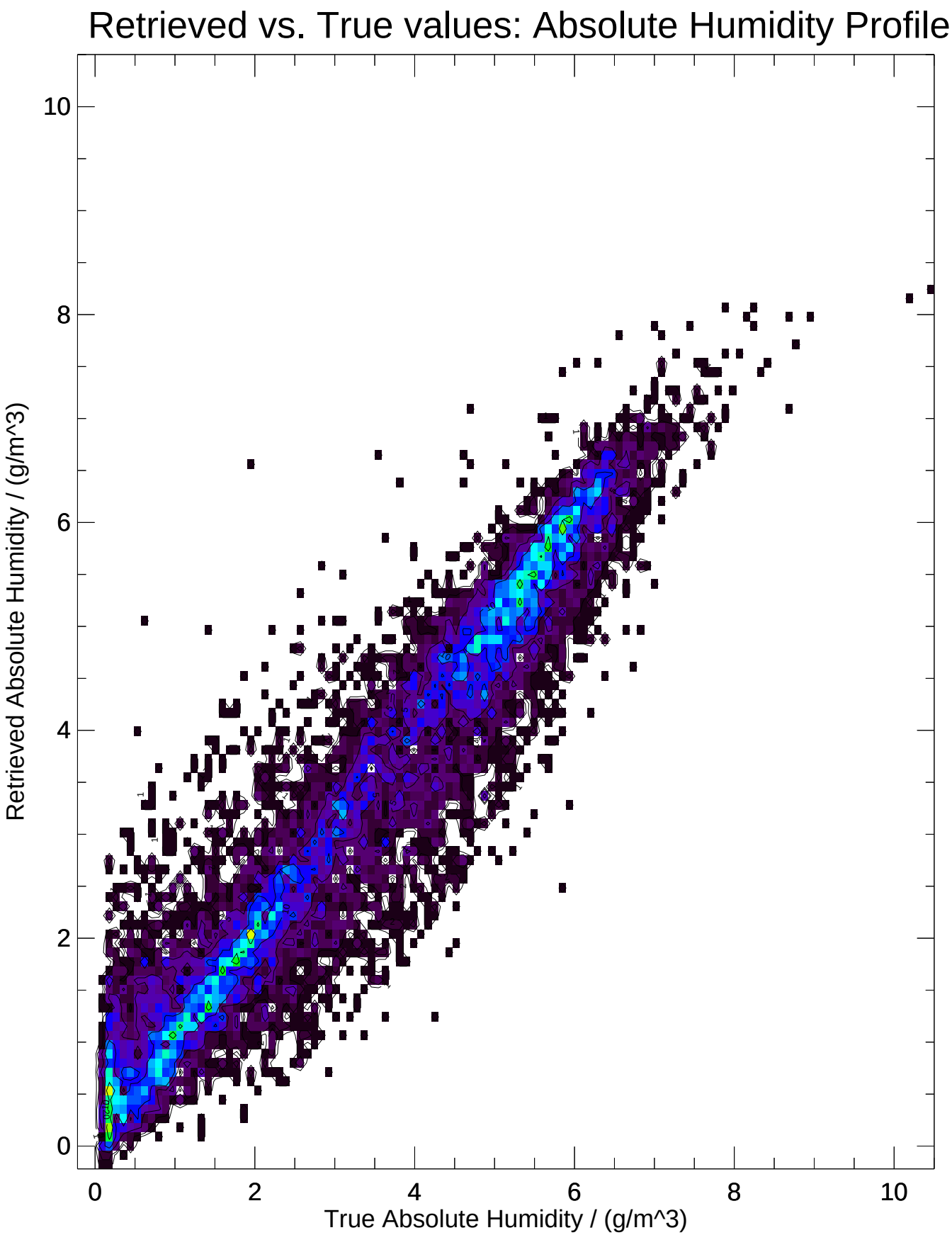

Relative Error (amplitude dependent)
Z = 3100 m
N=1057
N=934
N=959
N=1013
N=839
N=745
N=925
N=1145
N=1193
N=738
N=201
N=49
N=15
N=6
N=1
Relative Error, normalized. HPC (thin line: Bias)
1.5
1.0
0.5
0.0
2
4
6
8
10
True Value Absolute Humidity / (g/m^3)

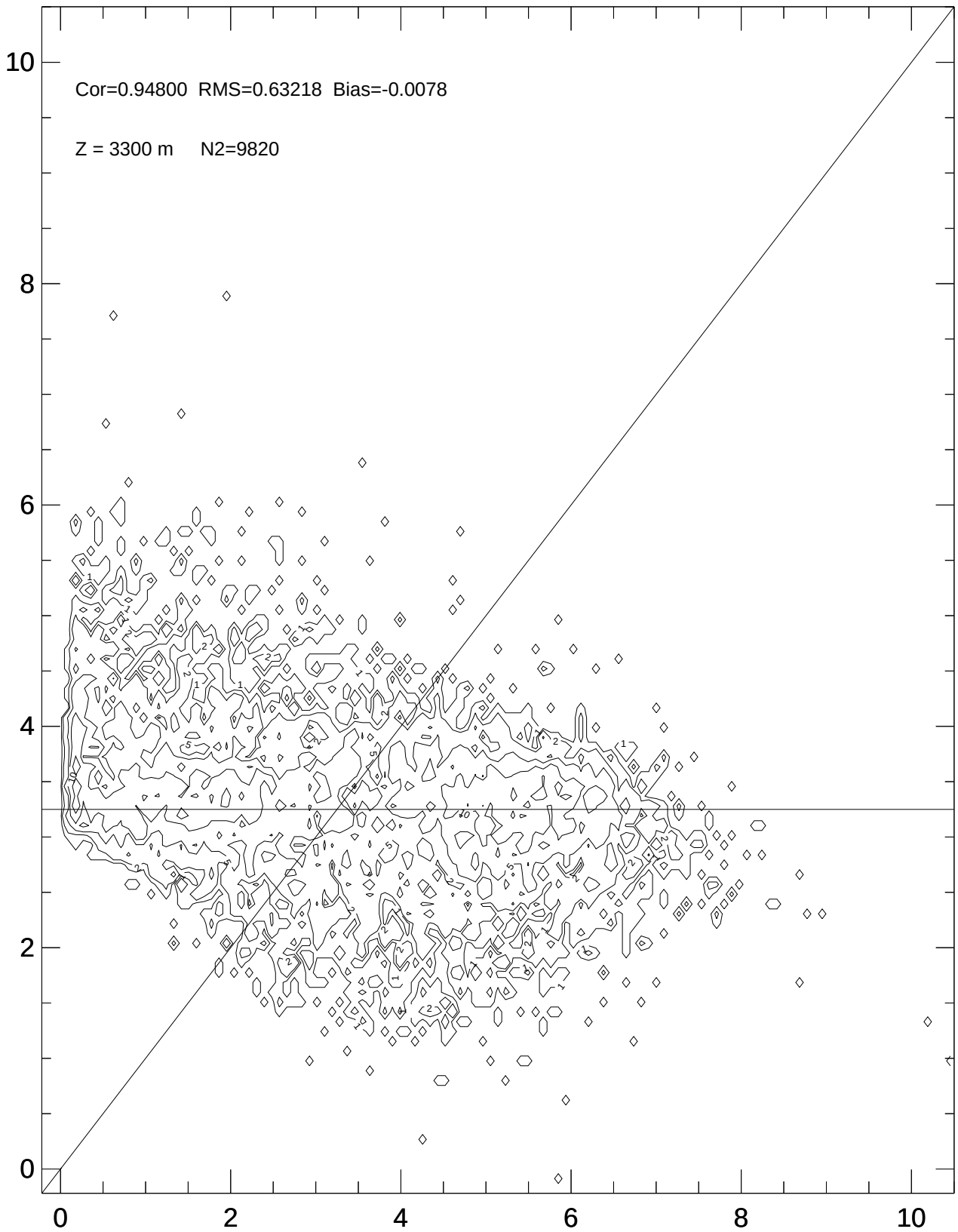

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

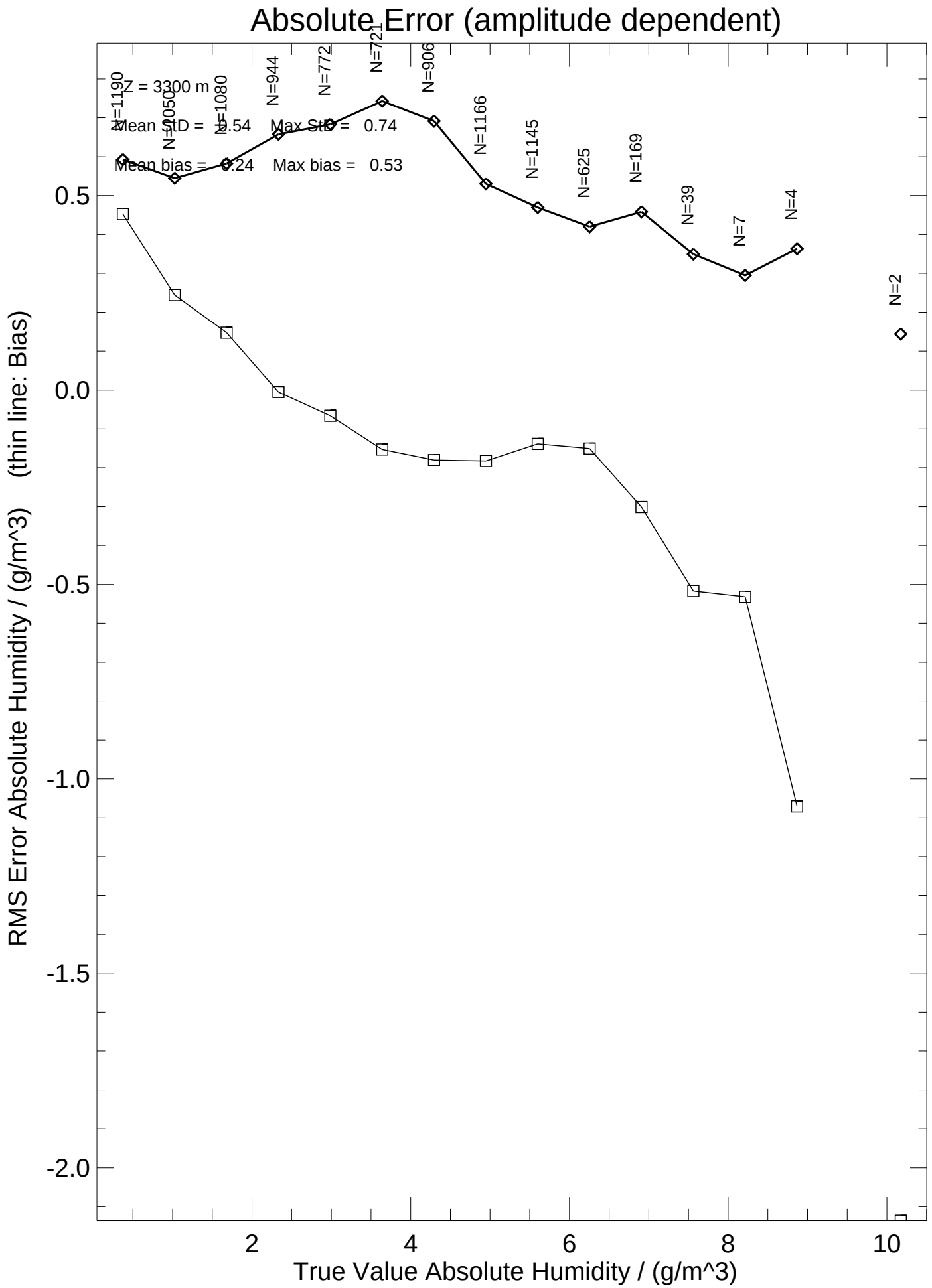

Cor=0.94781 RMS=0.64977 Bias=-0.0044
Z = 3200 m N2=9820
0
2
4
6
8
10

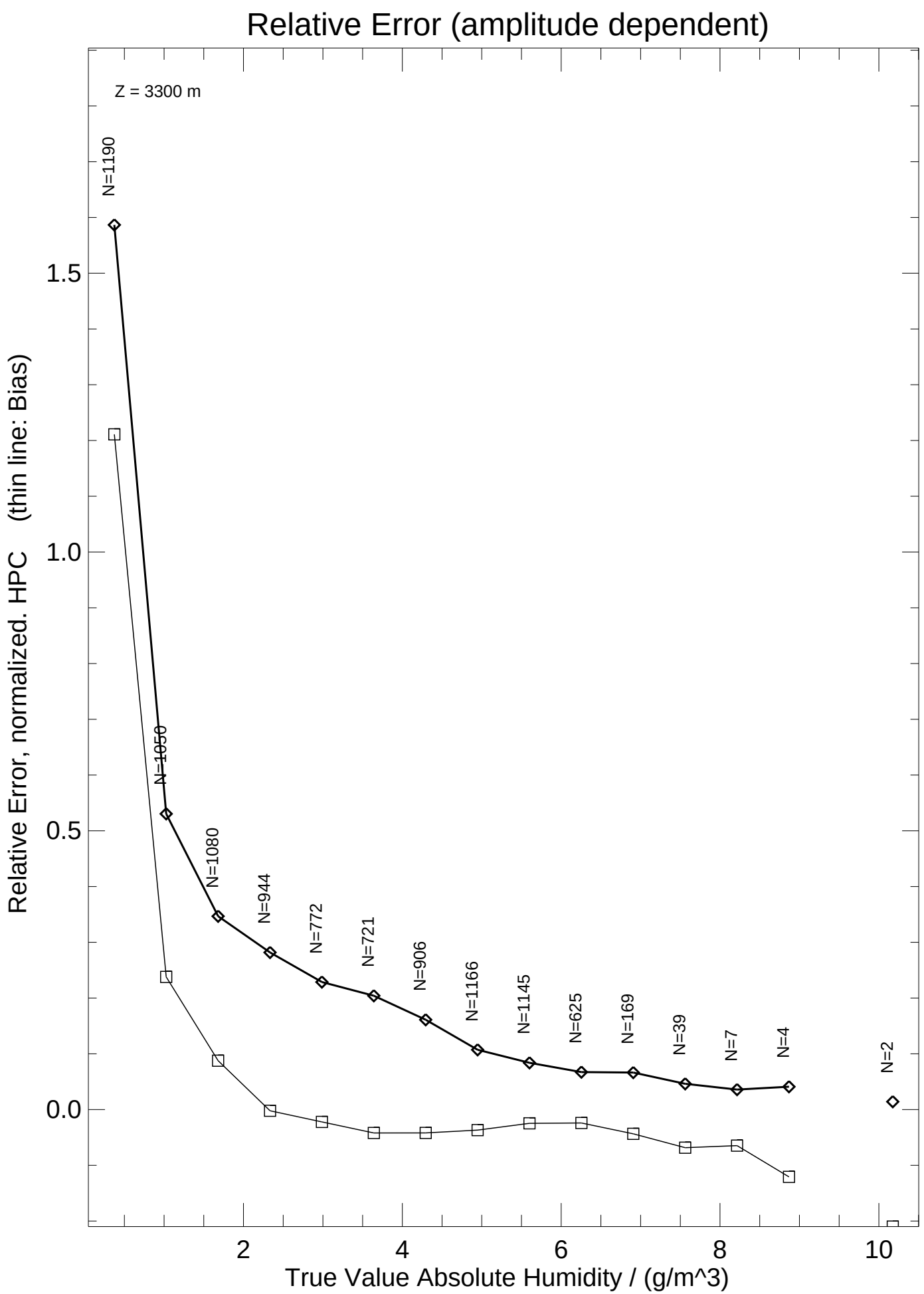

Absolute Error (amplitude dependent)
Z = 3200 m
Mean StD = 0.56 Max StD = 0.74
Mean bias = 0.24 Max bias = 0.58
N=1105
N=1055
N=1021
N=959
N=819
N=749
N=885
N=1183
N=1157
N=691
N=185
N=44
N=10
N=5
N=1
N=1
0.5
0.0
-0.5
-1.0
2
4
6
8
10
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

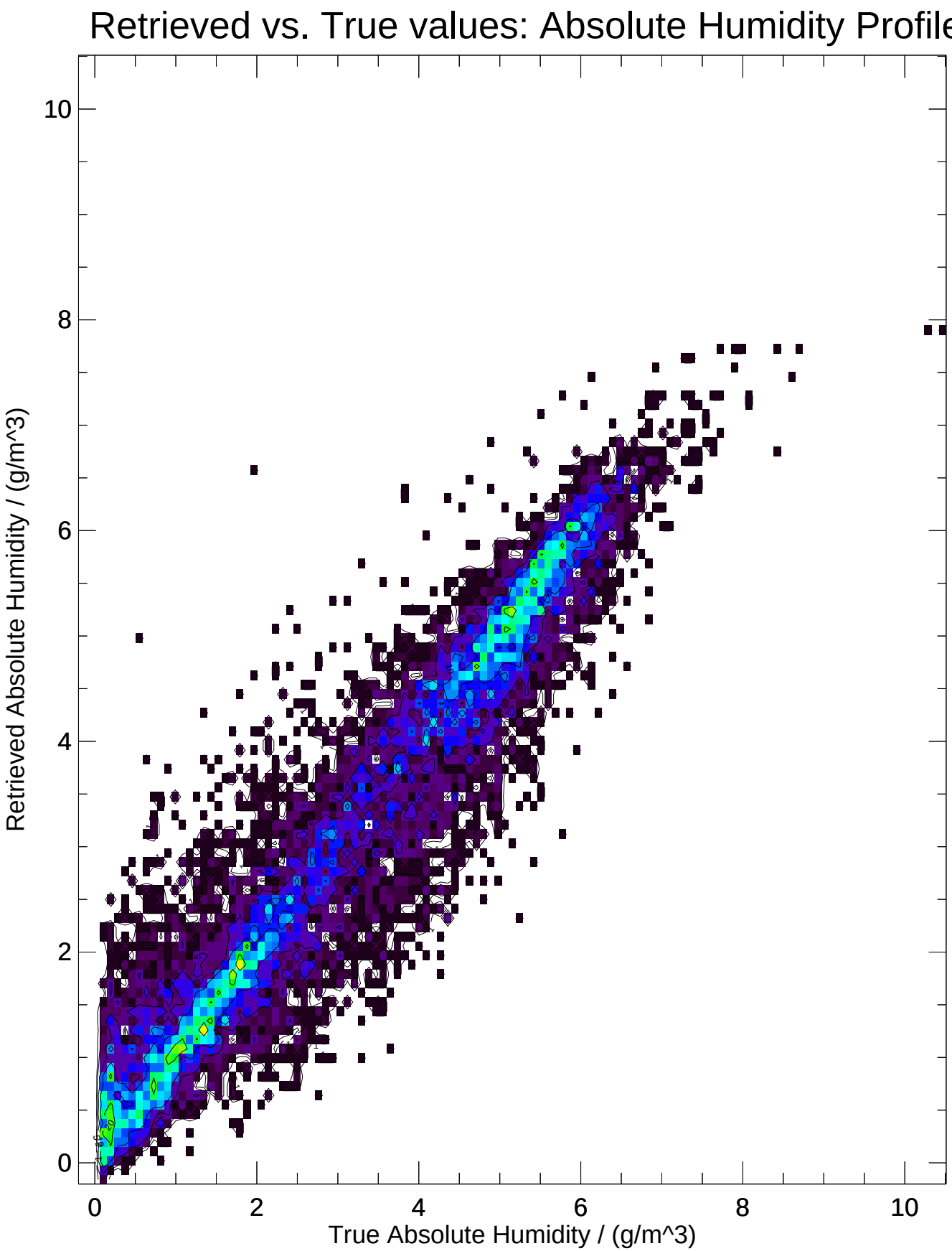

Relative Error (amplitude dependent)
Z = 3200 m
N=1105
N=1005
N=1021
N=959
N=819
N=749
N=885
N=1183
N=1157
N=691
N=185
N=44
N=10
N=5
N=1
N=1
1.5
1.0
0.5
0.0
2
4
6
8
10
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

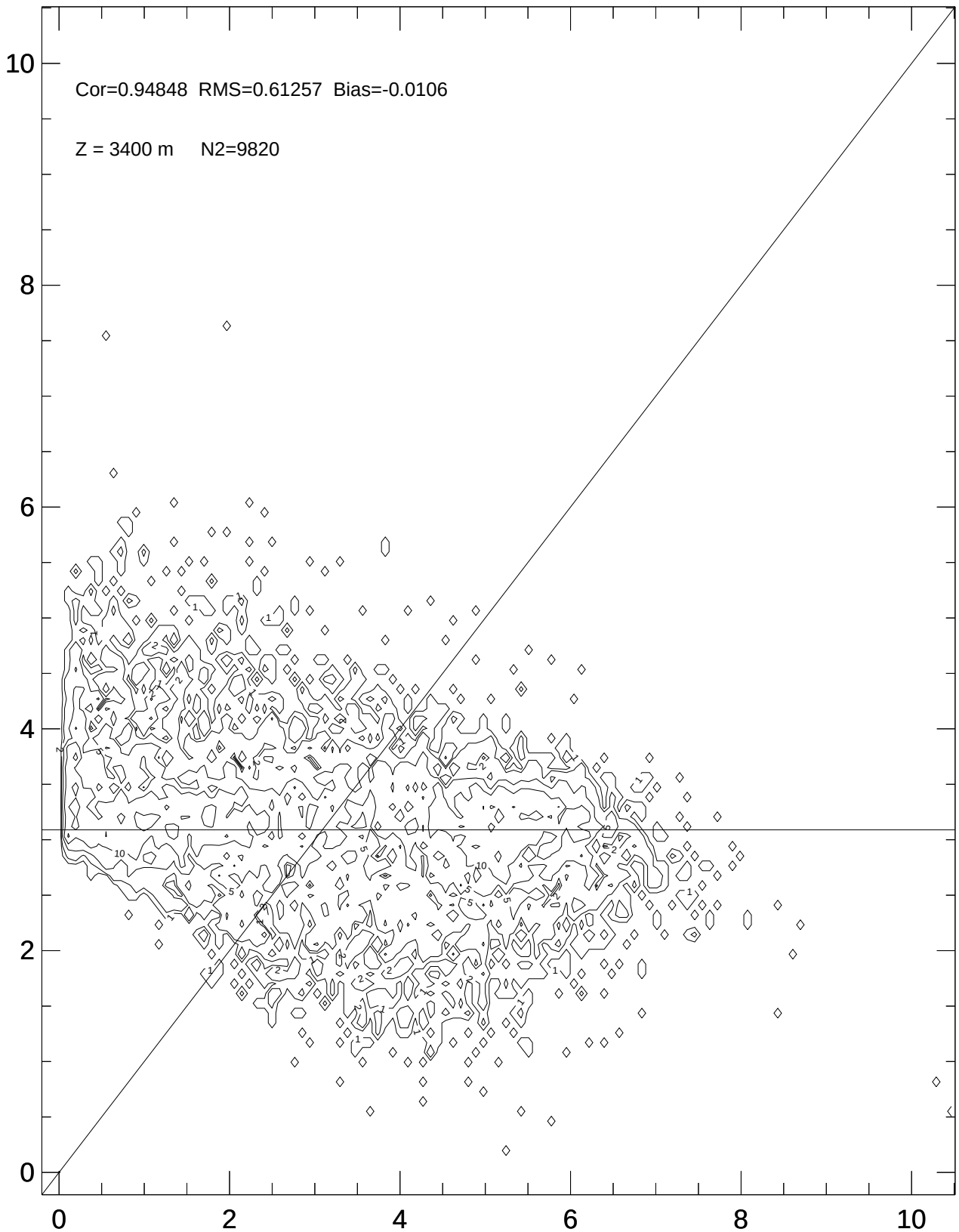

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

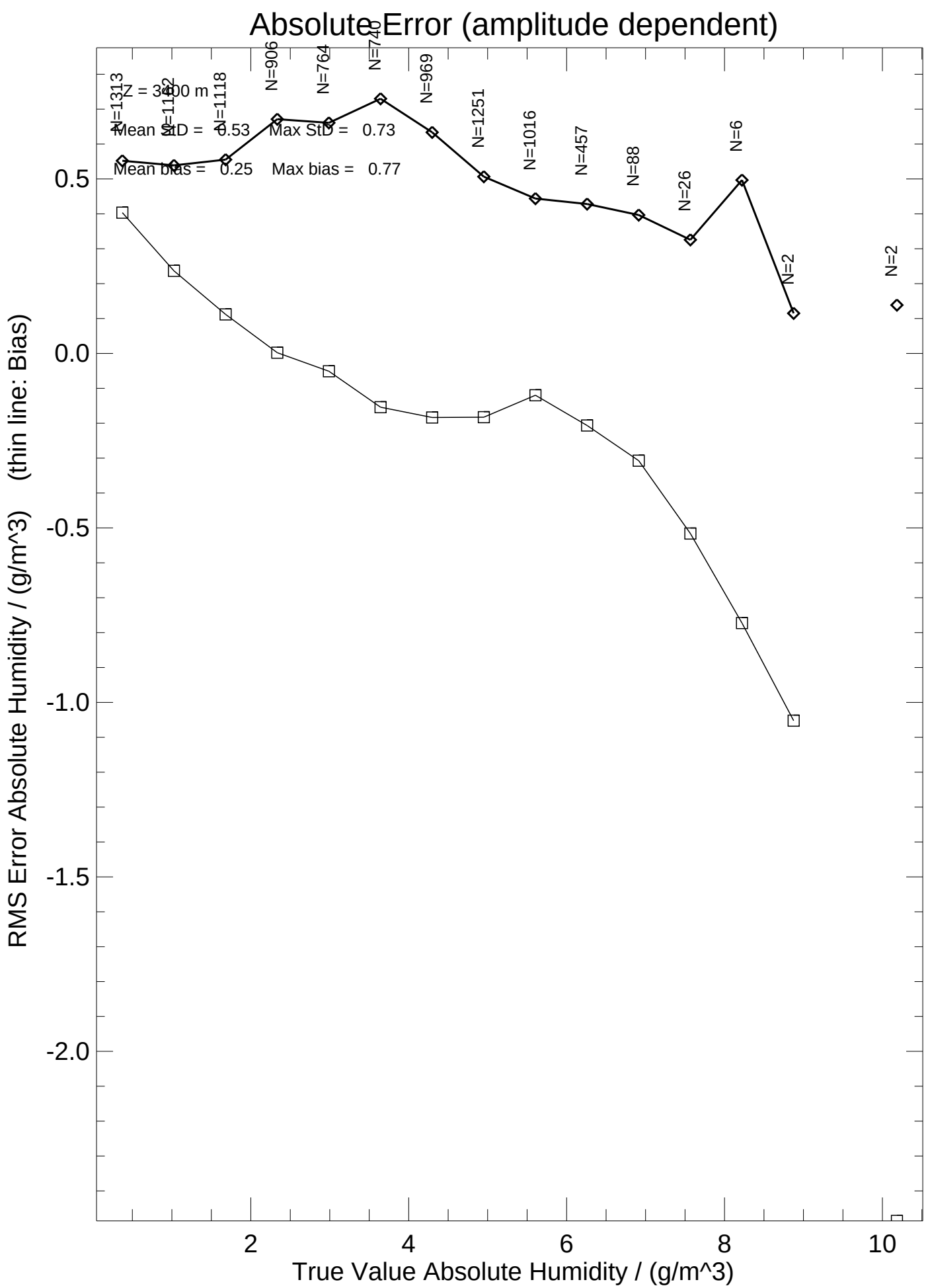

Cor=0.94800 RMS=0.63218 Bias=-0.0078
Z = 3300 m N2=9820
0
2
4
6
8
10

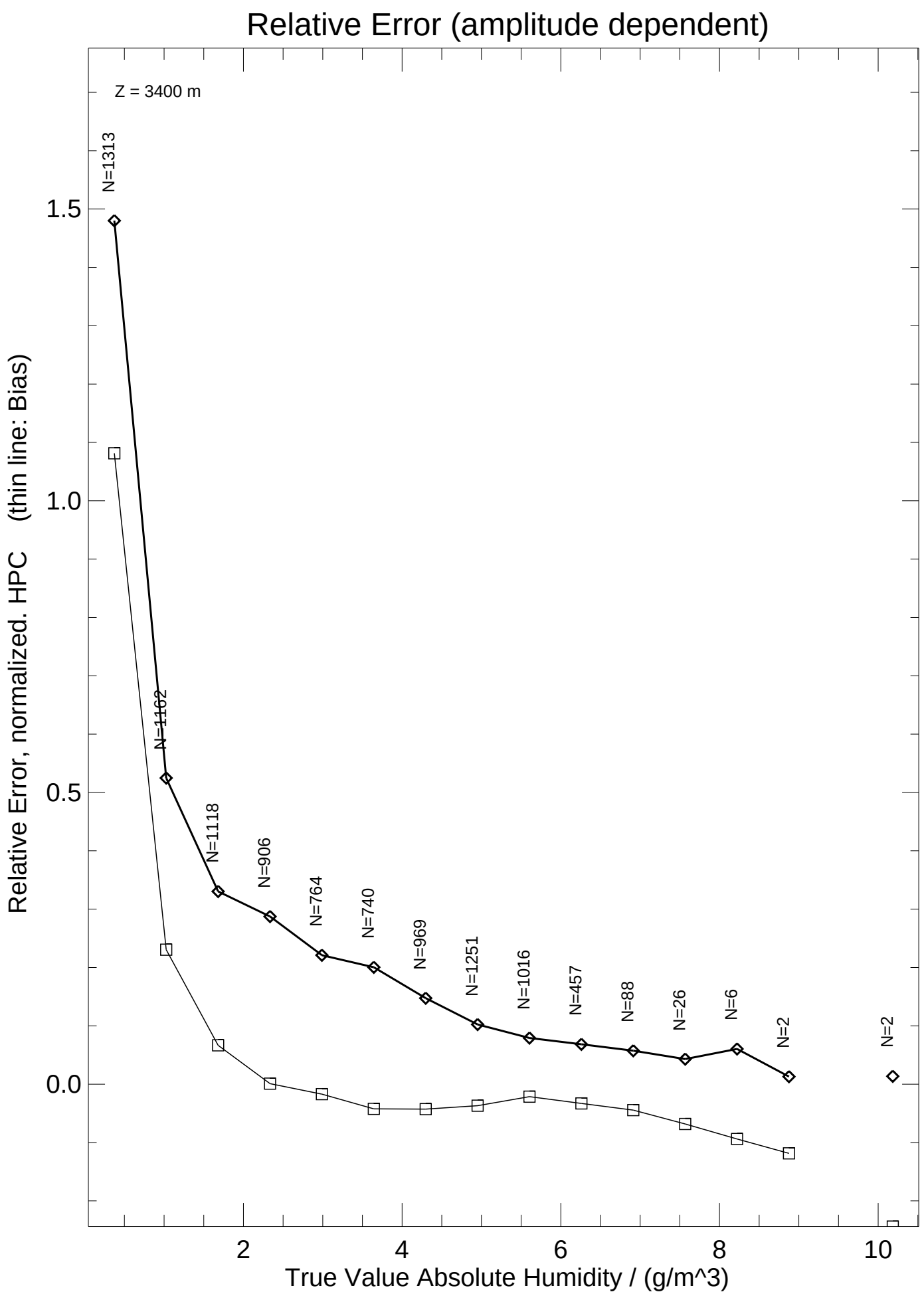

Absolute Error (amplitude dependent)
Z = 3300 m
Mean StD = 0.54 Max StD = 0.74
Mean bias = 0.24 Max bias = 0.53
N=1190
N=1050
N=1080
N=944
N=772
N=721
N=906
N=1166
N=1145
N=625
N=169
N=39
N=7
N=4
N=2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.5
0.0
-0.5
-1.0
-1.5
-2.0
2
4
6
8
10

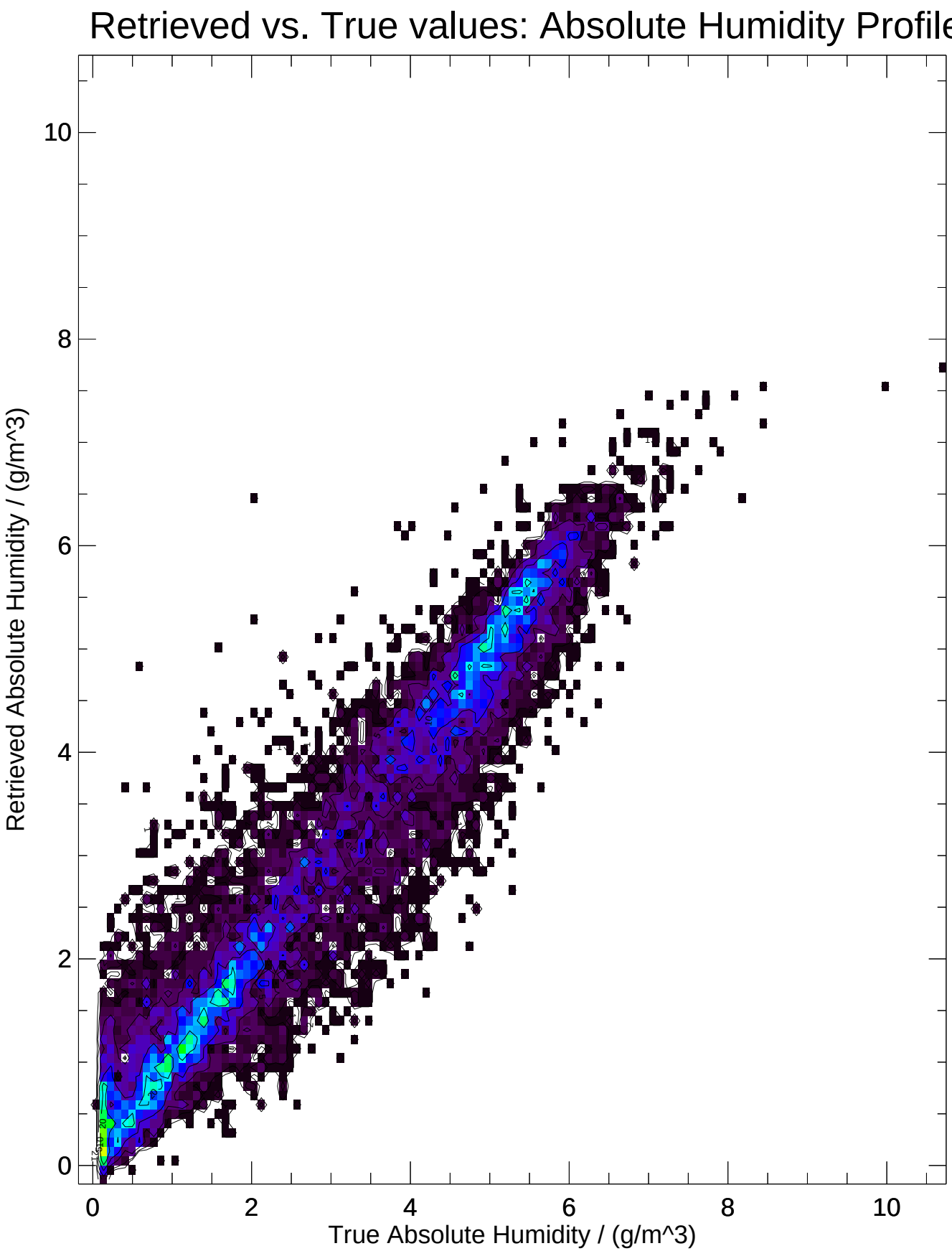

Relative Error (amplitude dependent)
Z = 3300 m
N=1190
N=1050
N=1080
N=944
N=772
N=721
N=906
N=1166
N=1145
N=625
N=169
N=39
N=7
N=4
N=2
1.5
1.0
0.5
0.0
2
4
6
8
10
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

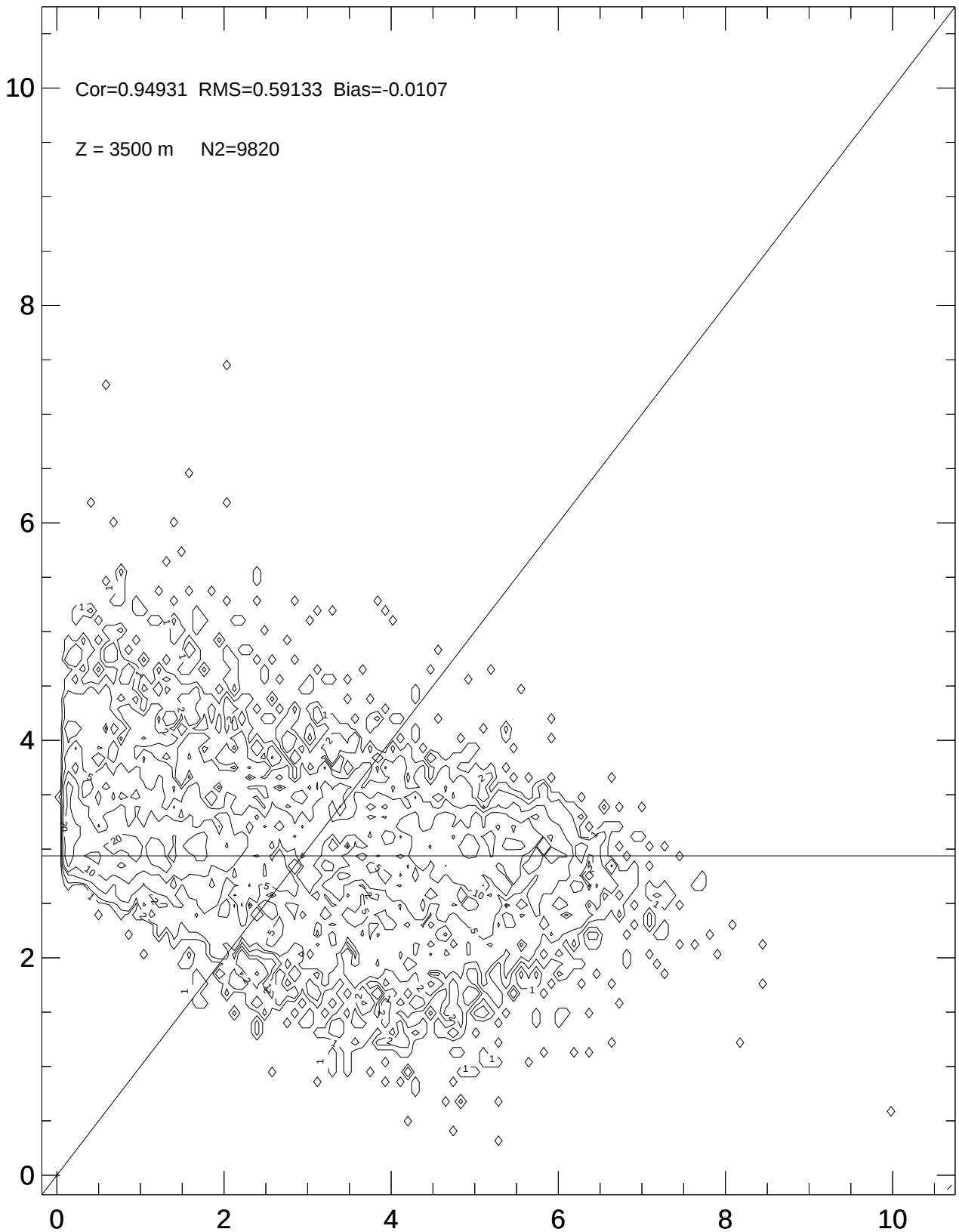

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

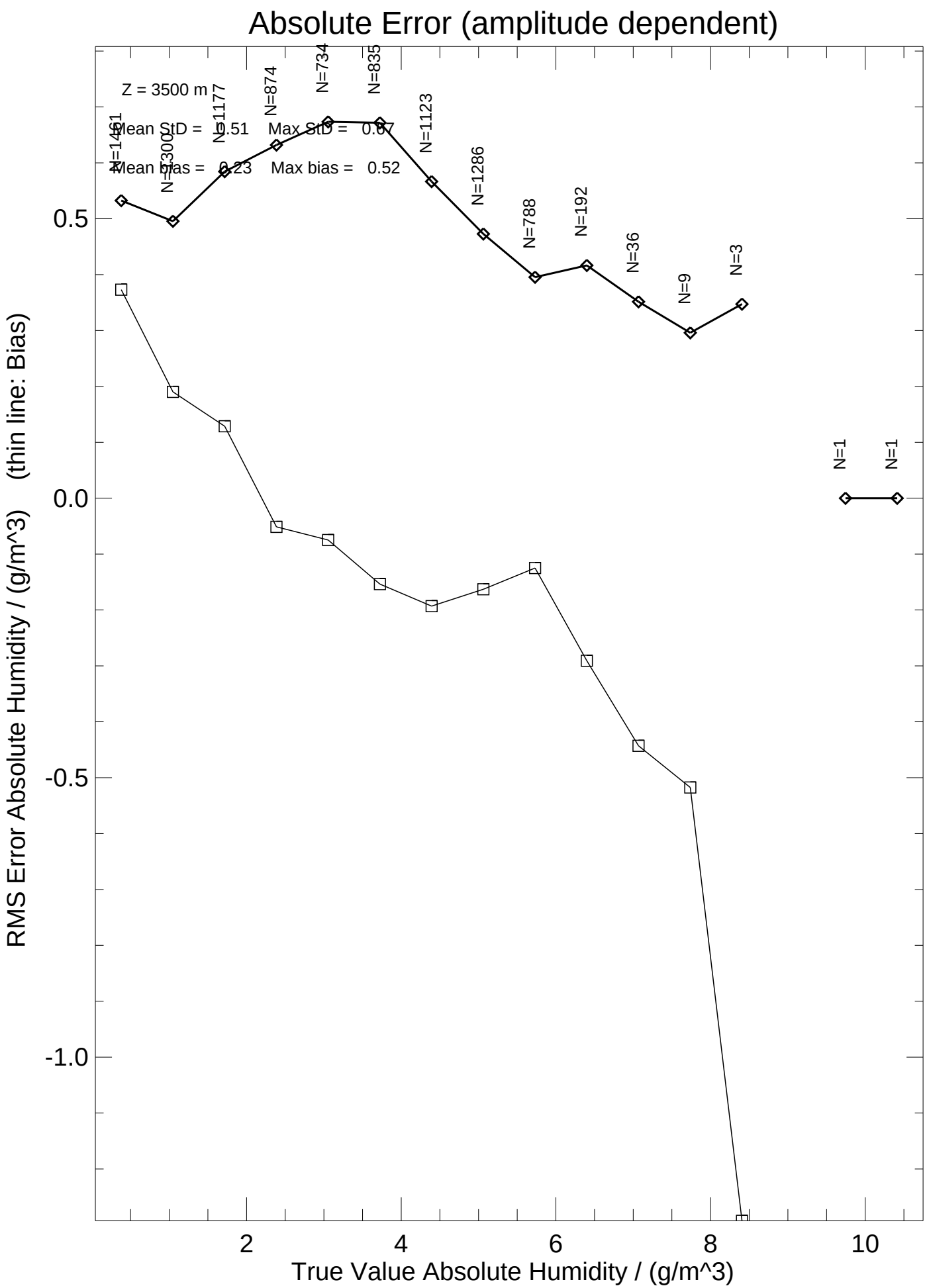

Cor=0.94848 RMS=0.61257 Bias=-0.0106
Z = 3400 m N2=9820
0
2
4
6
8
10

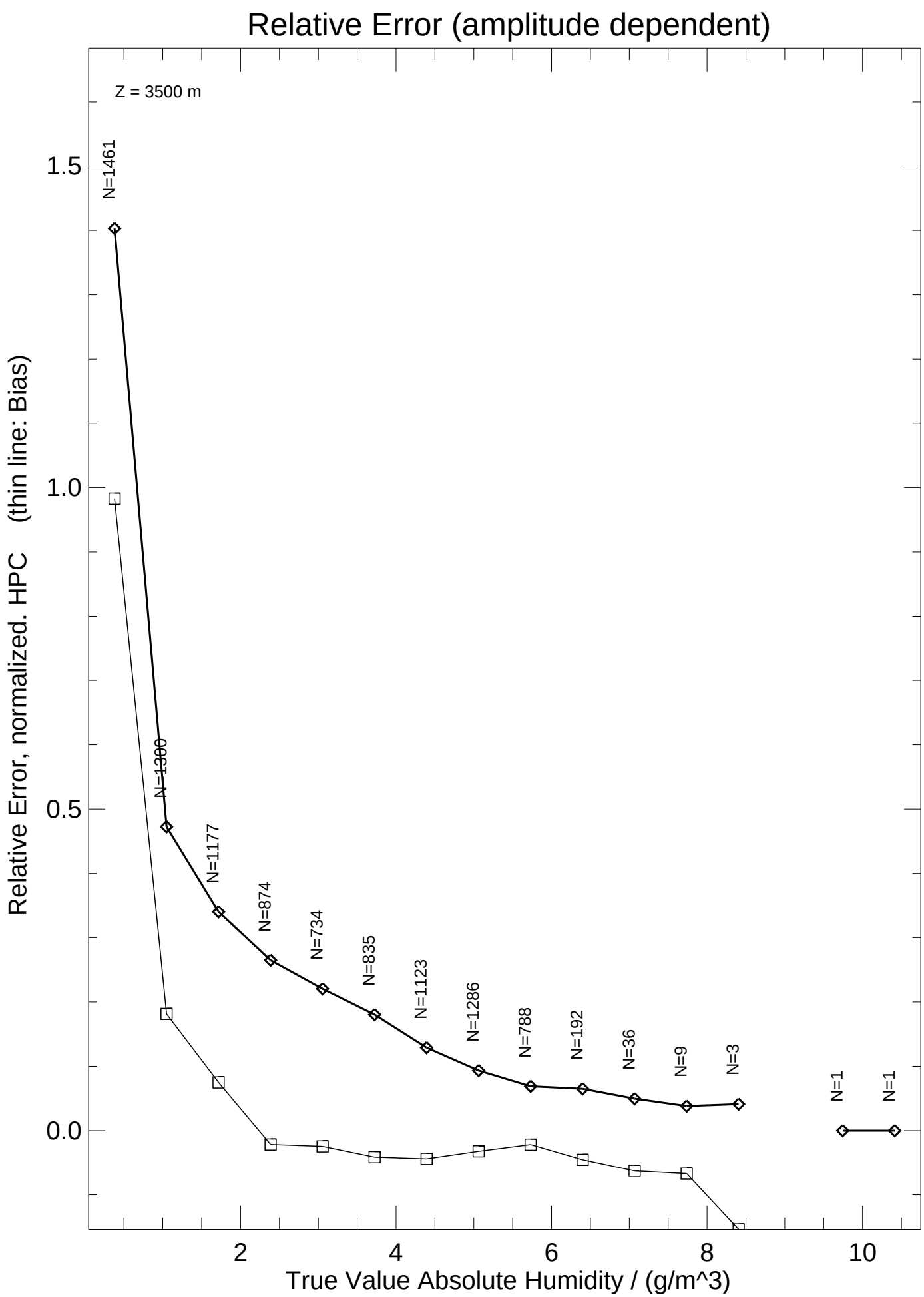

Absolute Error (amplitude dependent)
N=1313
N=1162
N=1118
N=906
N=764
N=740
N=969
N=1251
N=1016
N=457
N=88
N=26
N=6
N=2
N=2
Z = 3400 m
Mean StD = 0.53 Max StD = 0.73
Mean bias = 0.25 Max bias = 0.77
0.5
0.0
-0.5
-1.0
-1.5
-2.0
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
2
4
6
8
10
True Value Absolute Humidity / (g/m^3)

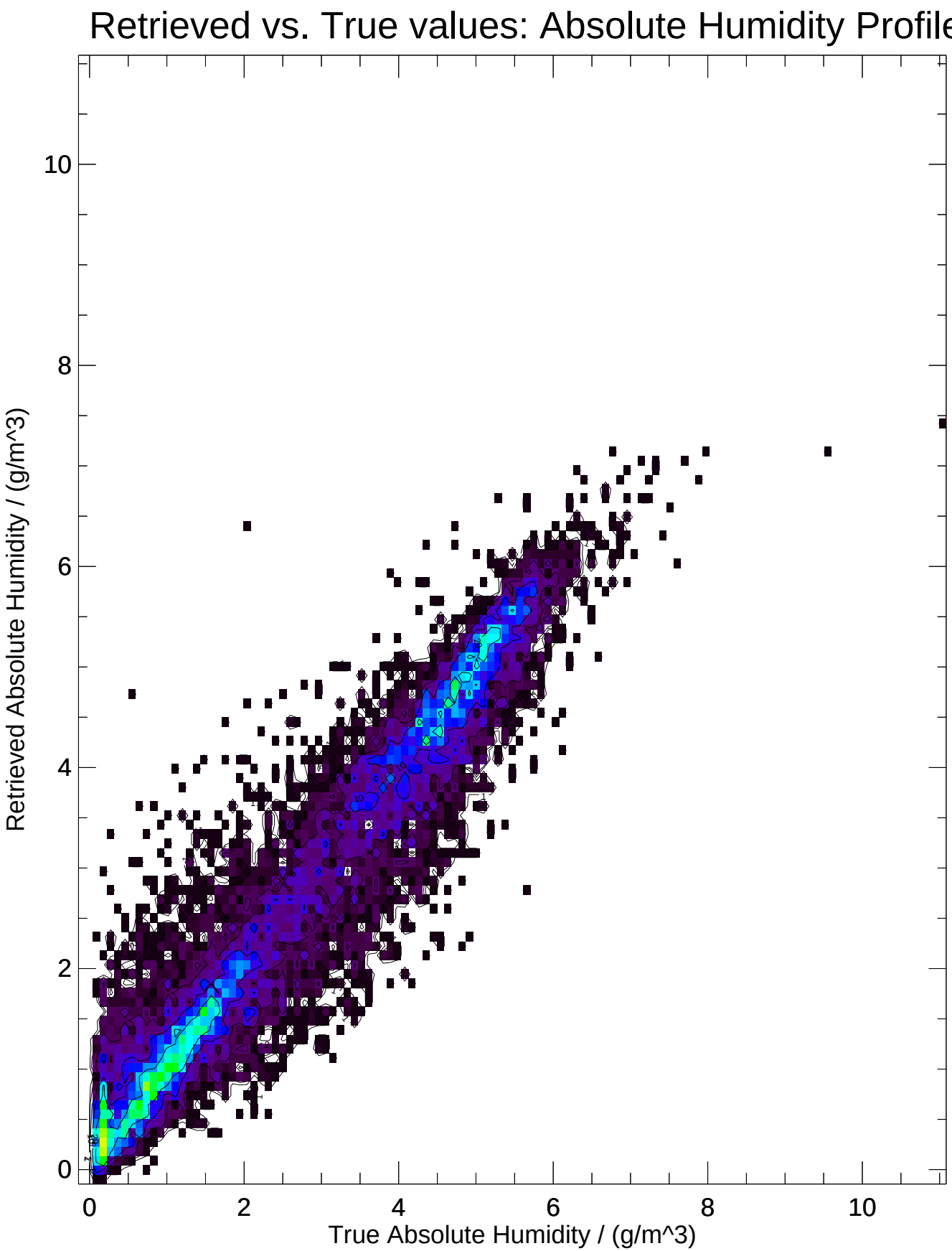

Relative Error (amplitude dependent)
Z = 3400 m
N=1313
N=1162
N=1118
N=906
N=764
N=740
N=969
N=1251
N=1016
N=457
N=88
N=26
N=6
N=2
N=2
1.5
1.0
0.5
0.0
2
4
6
8
10
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

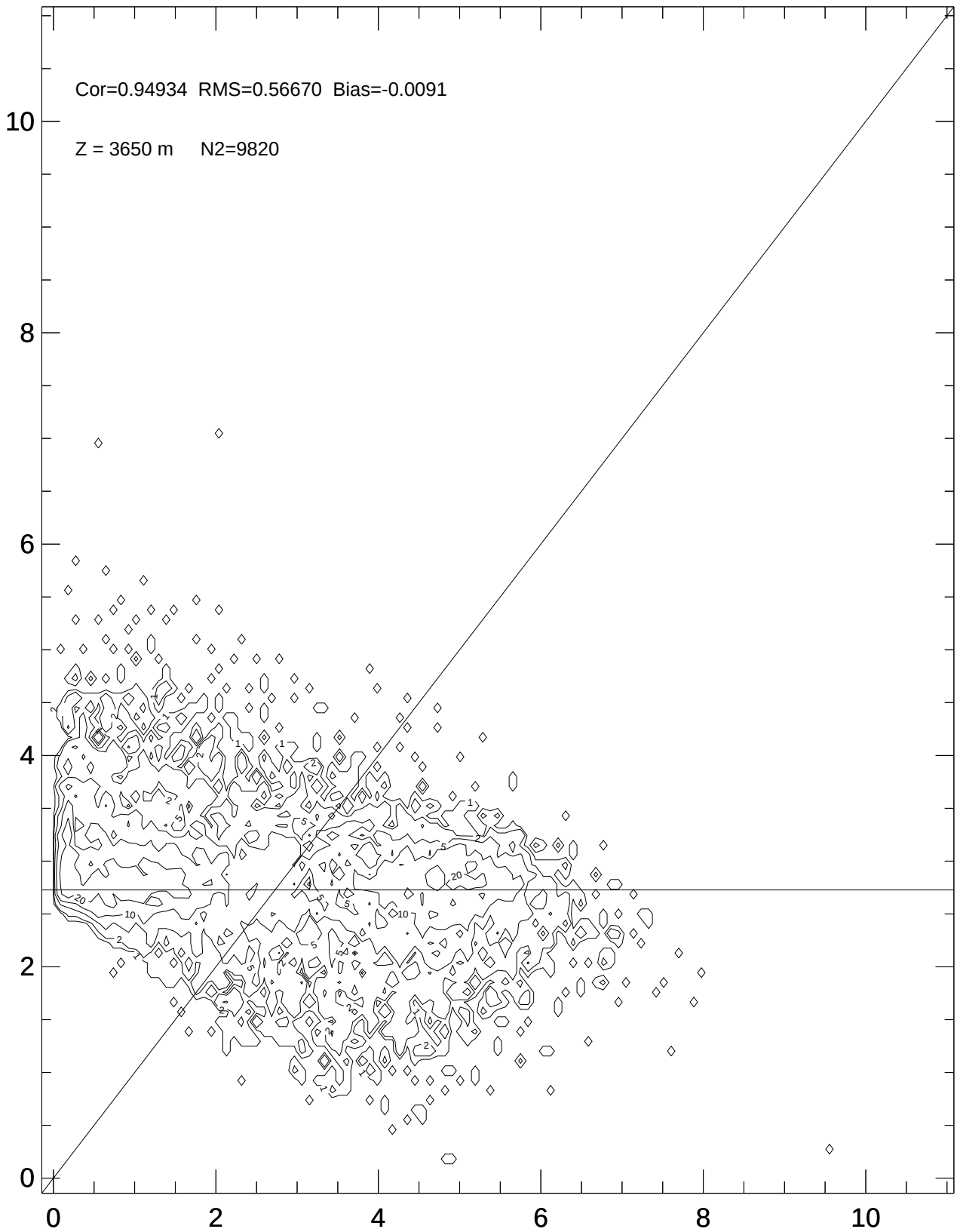

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

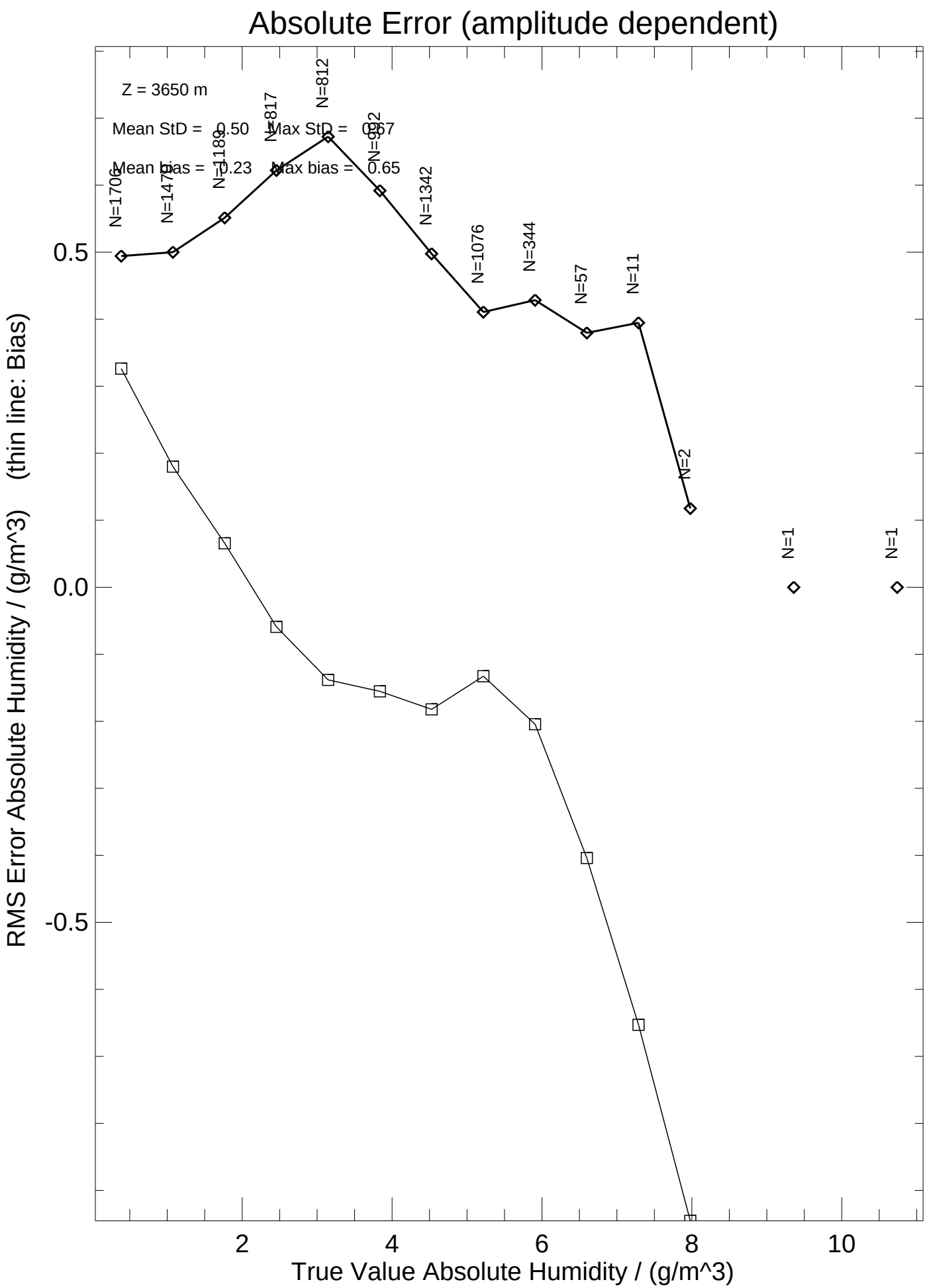

Cor=0.94931 RMS=0.59133 Bias=-0.0107
Z = 3500 m N2=9820
0
2
4
6
8
10
0
2
4
6
8
10

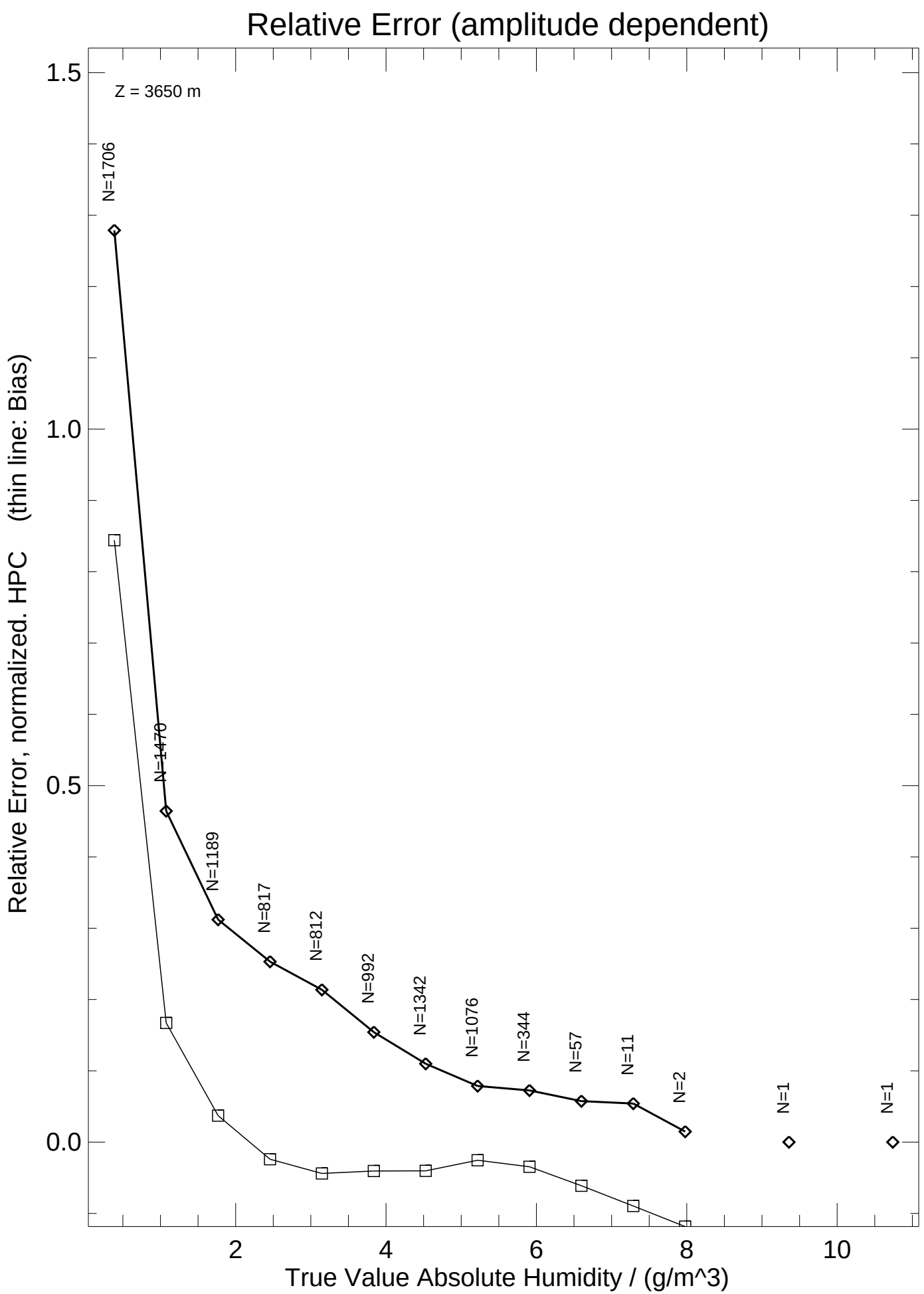

Absolute Error (amplitude dependent)
Z = 3500 m
Mean StD = 0.51 Max StD = 0.67
Mean bias = 0.23 Max bias = 0.52
N=1461
N=1300
N=1177
N=874
N=734
N=835
N=1123
N=1286
N=788
N=192
N=36
N=9
N=3
N=1
N=1
0.5
0.0
-0.5
-1.0
2
4
6
8
10
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

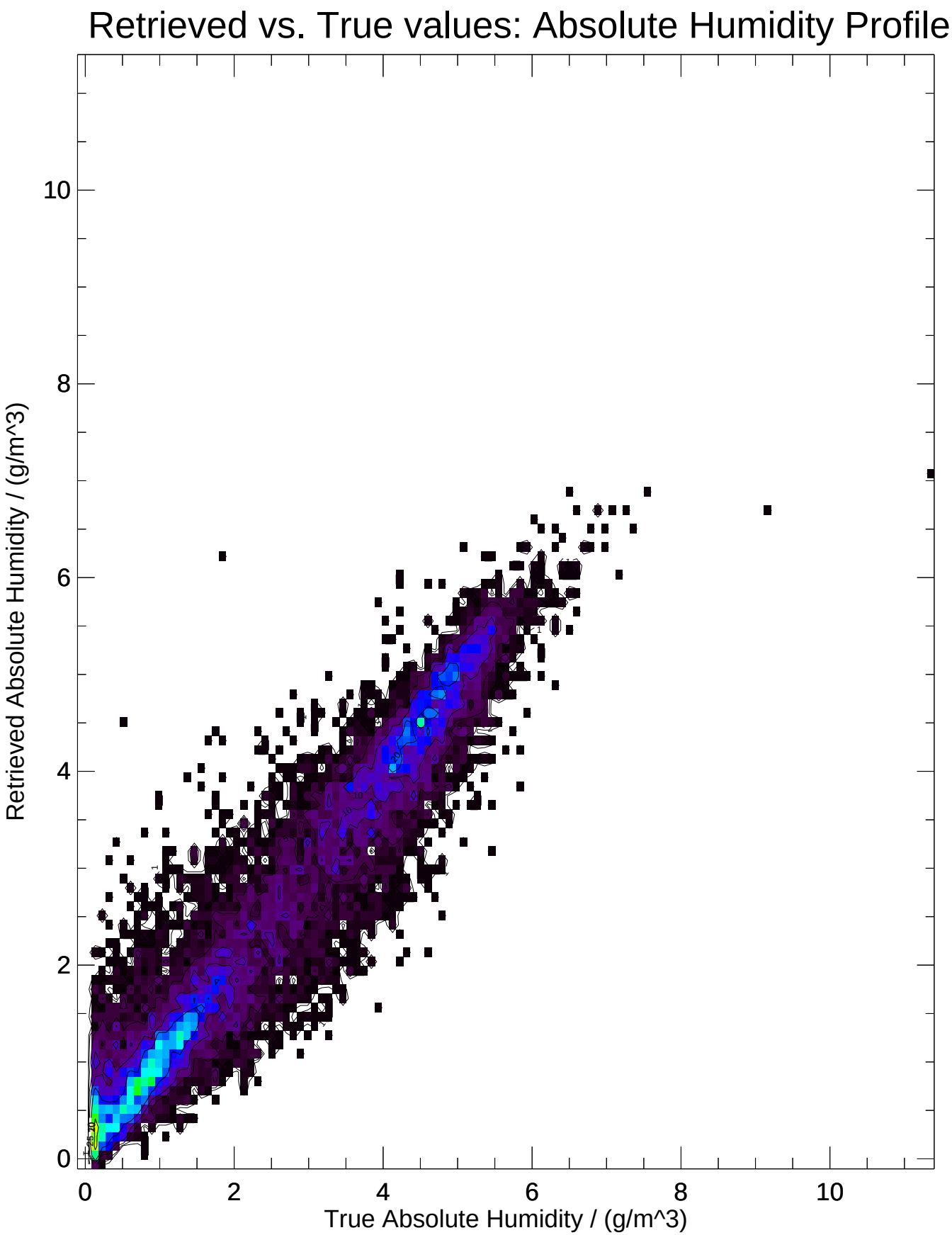

Relative Error (amplitude dependent)
Z = 3500 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
1.5
1.0
0.5
0.0
2
4
6
8
10
N=1461
N=1300
N=1177
N=874
N=734
N=835
N=1123
N=1286
N=788
N=192
N=36
N=9
N=3
N=1
N=1

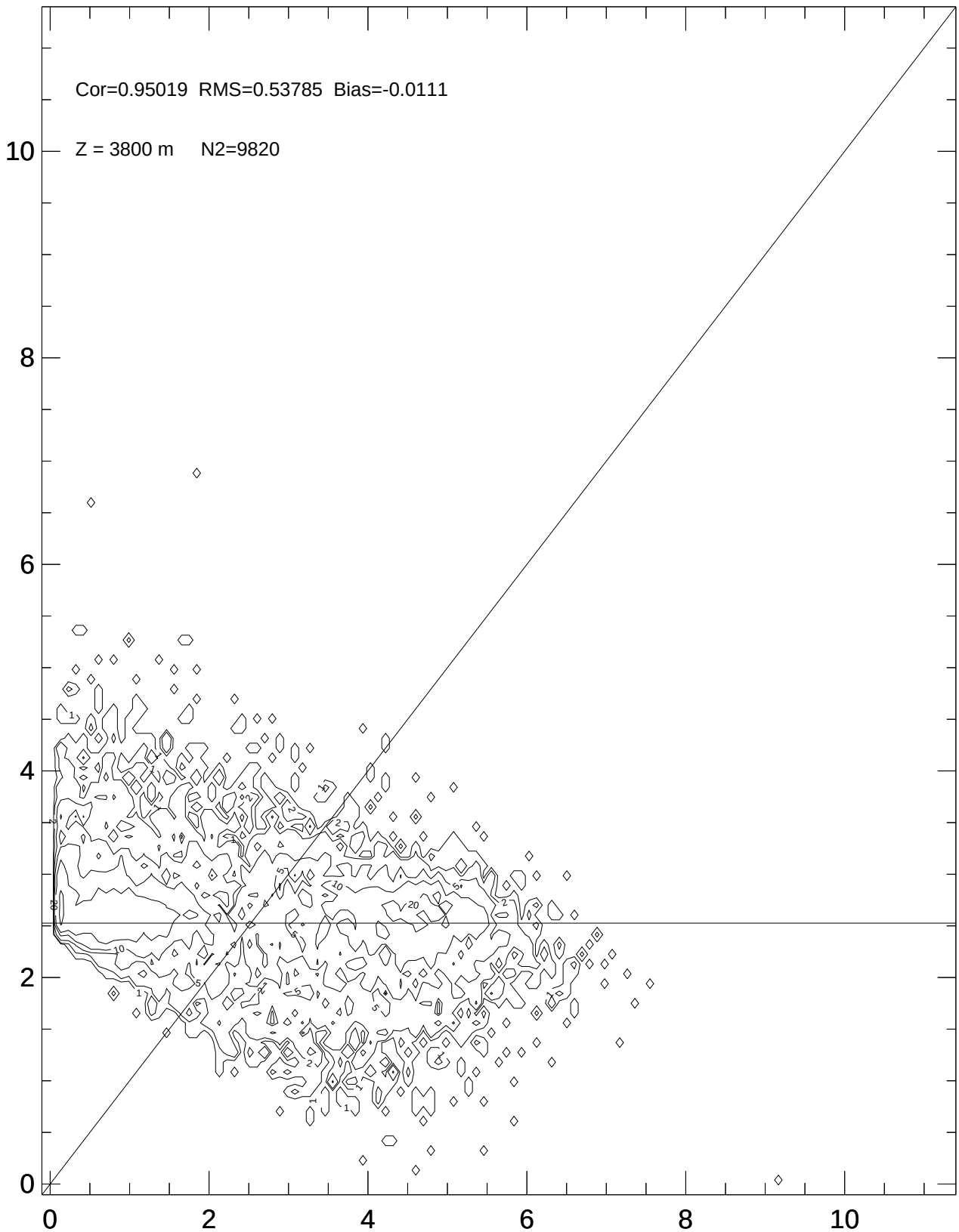

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

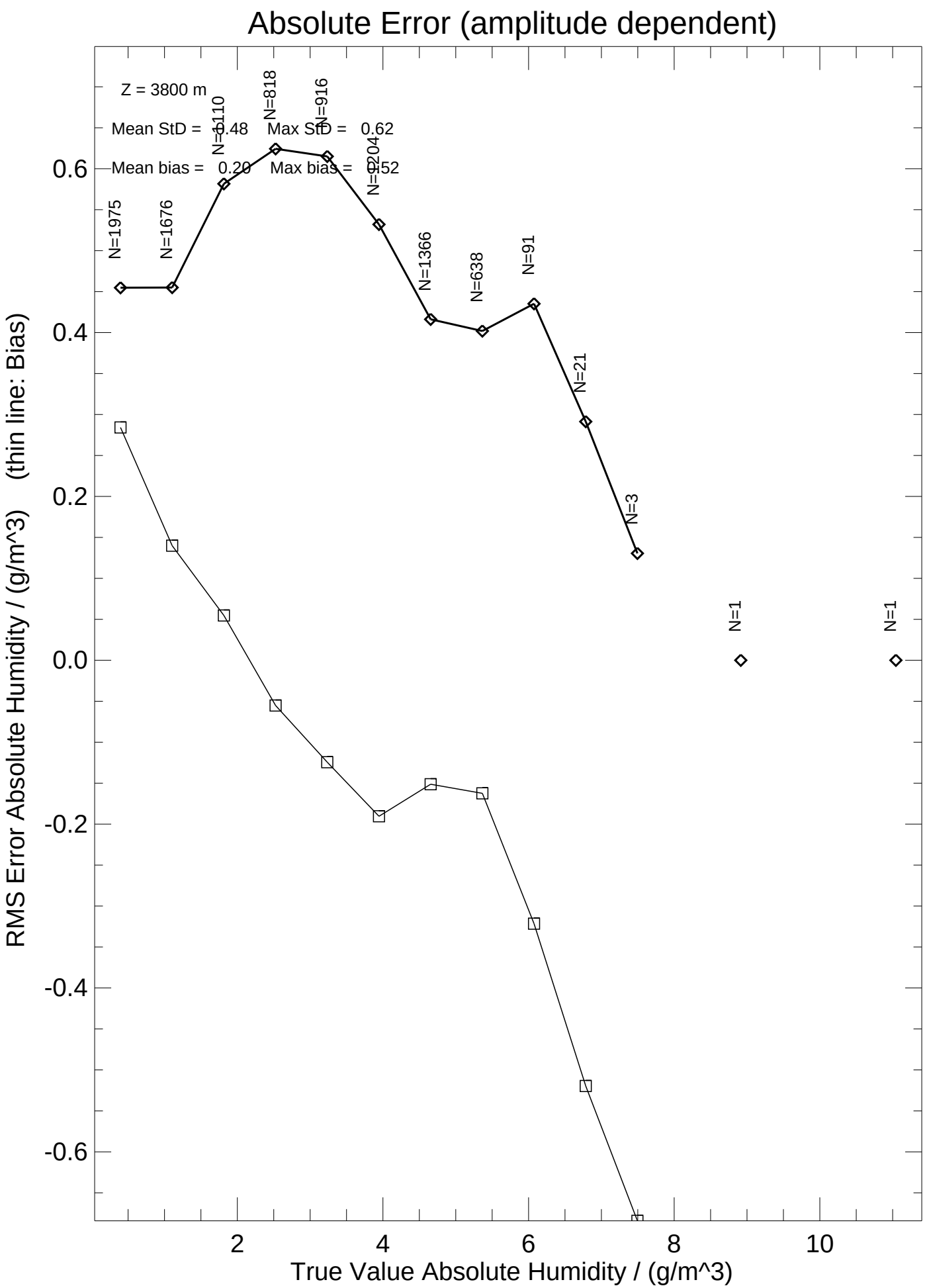

Cor=0.94934 RMS=0.56670 Bias=-0.0091
Z = 3650 m N2=9820
0
2
4
6
8
10
0
2
4
6
8
10

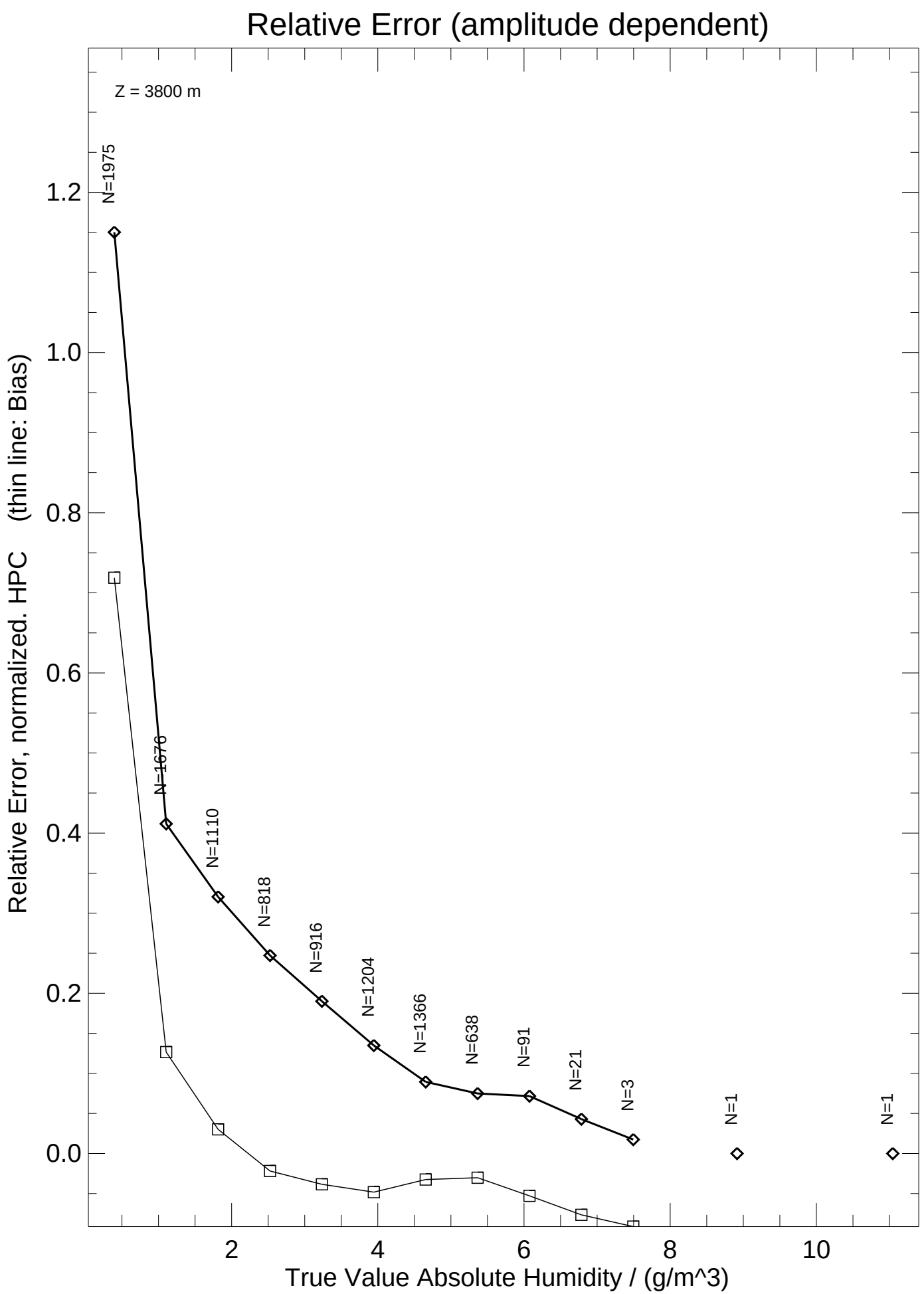

Absolute Error (amplitude dependent)
Z = 3650 m
Mean StD = 0.50 Max StD = 0.67
Mean bias = 0.23 Max bias = 0.65
N=1706
N=1470
N=1189
N=817
N=812
N=932
N=1342
N=1076
N=344
N=57
N=11
N=2
N=1
N=1
0.5
0.0
-0.5
2
4
6
8
10
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

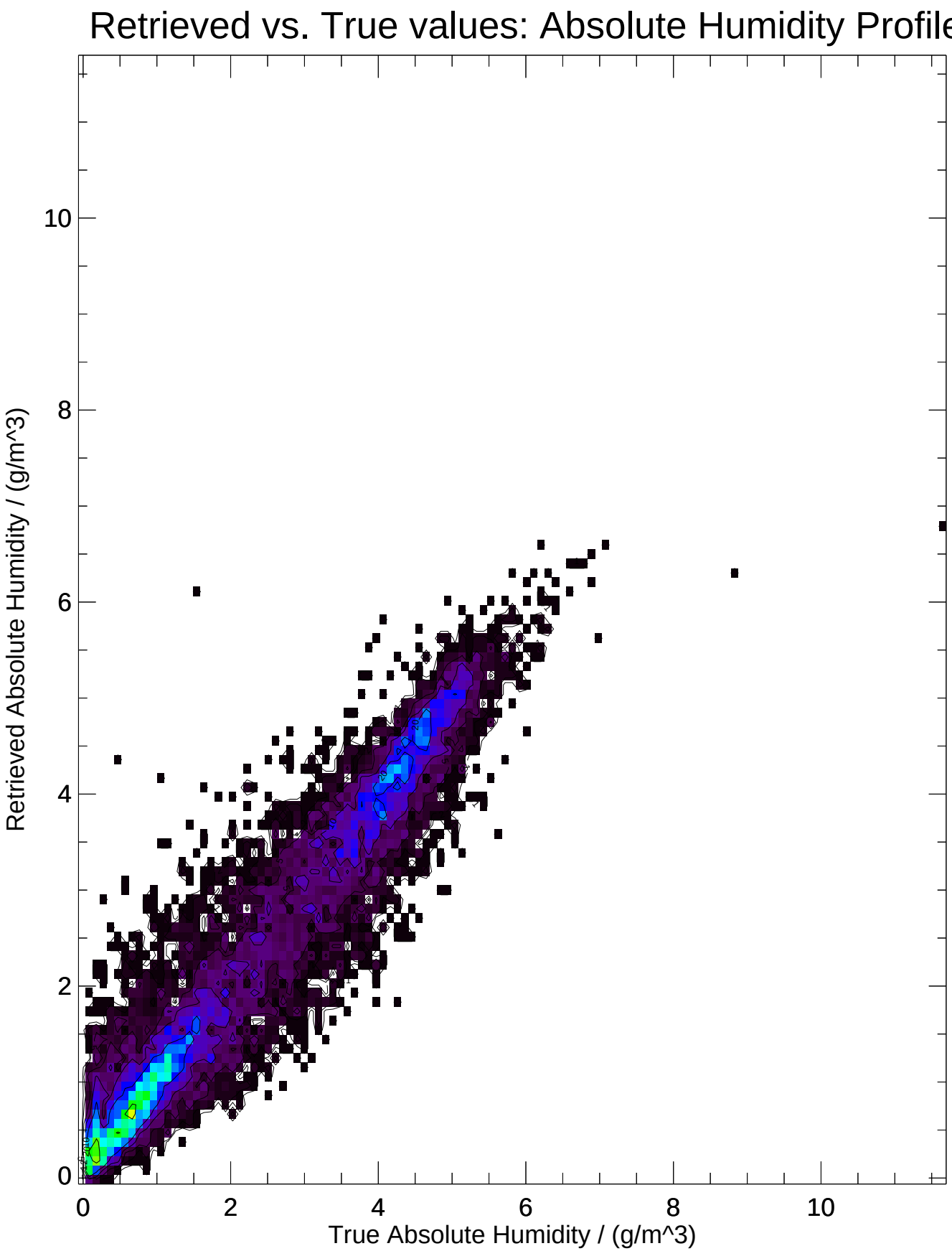

Relative Error (amplitude dependent)
Z = 3650 m
N=1706
N=1470
N=1189
N=817
N=812
N=992
N=1342
N=1076
N=344
N=57
N=11
N=2
N=1
N=1
1.5
1.0
0.5
0.0
2
4
6
8
10
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

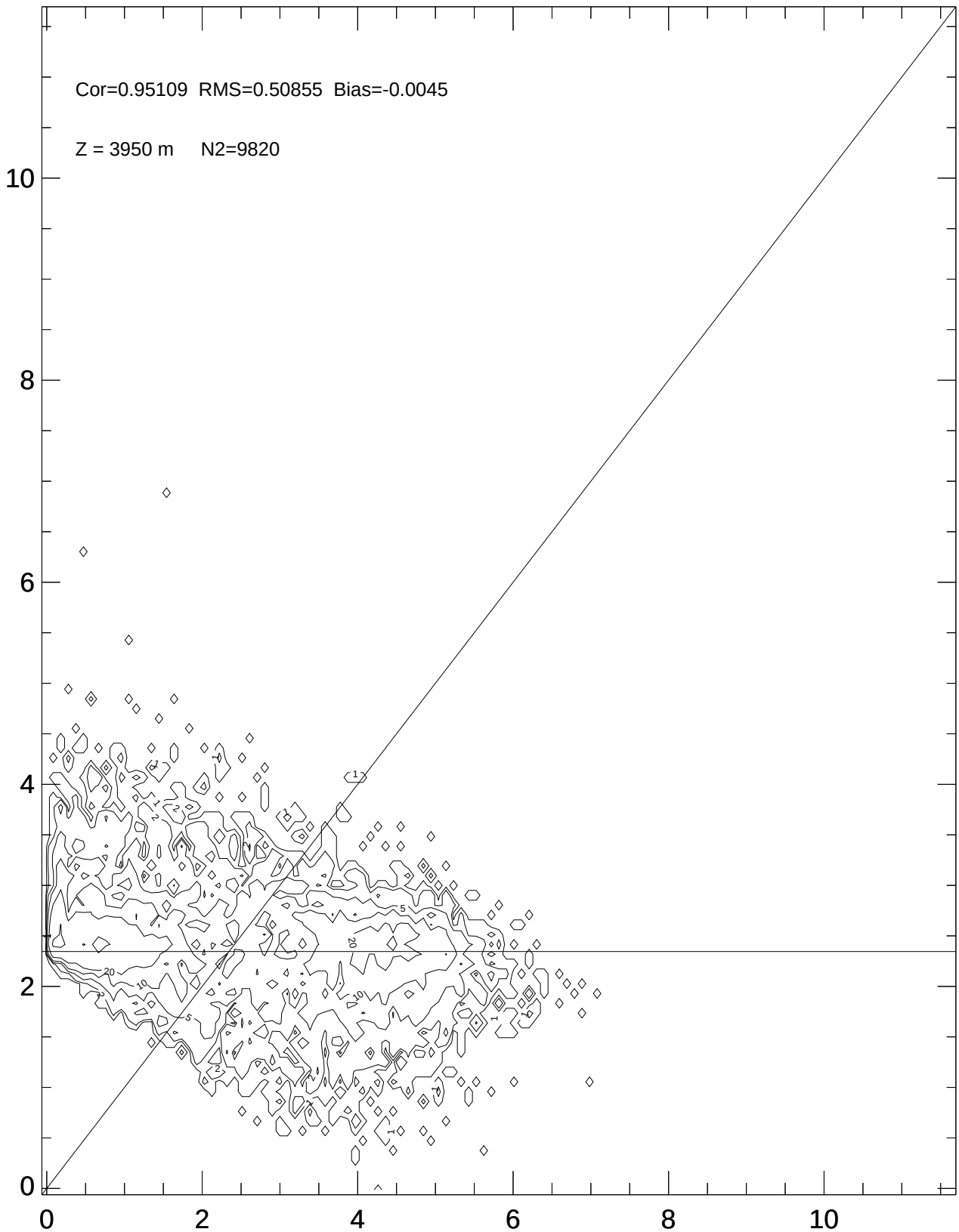

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

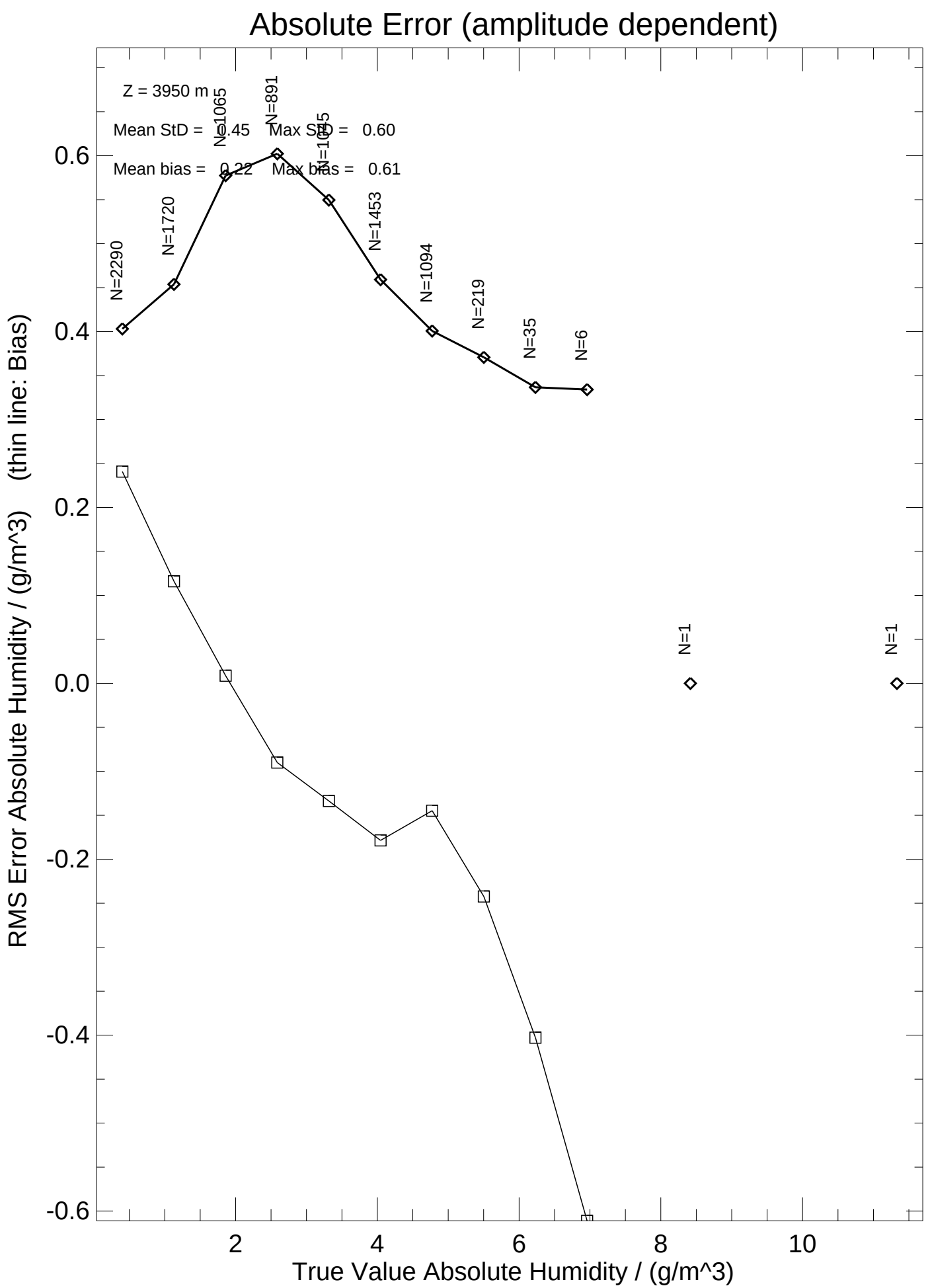

Cor=0.95019 RMS=0.53785 Bias=-0.0111
Z = 3800 m N2=9820
0
2
4
6
8
10
0
2
4
6
8
10

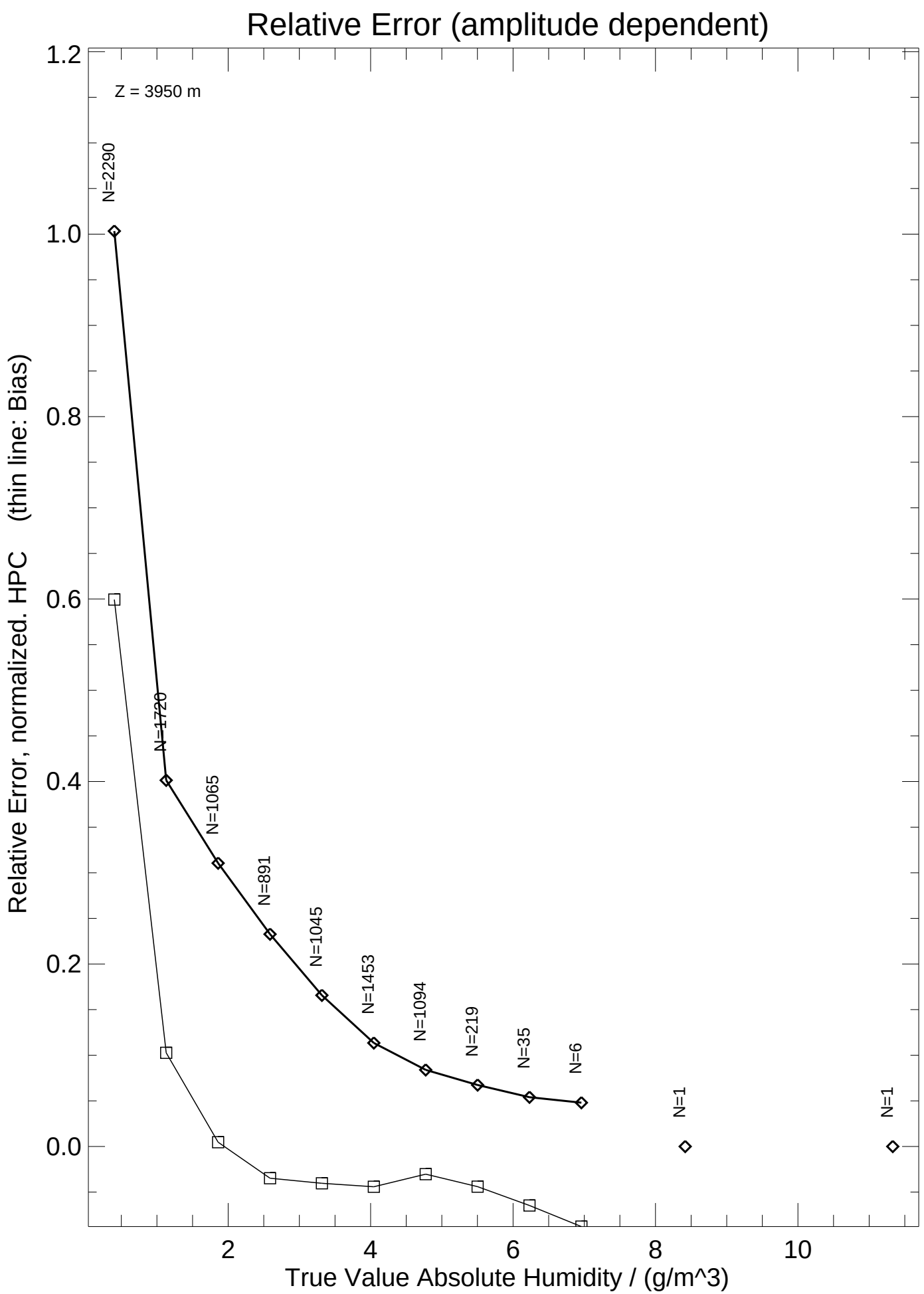

Absolute Error (amplitude dependent)
Z = 3800 m
Mean StD = 0.48 Max StD = 0.62
Mean bias = 0.20 Max bias = 0.52
N=1975
N=1676
N=1110
N=818
N=916
N=1204
N=1366
N=638
N=91
N=21
N=3
N=1
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
2
4
6
8
10

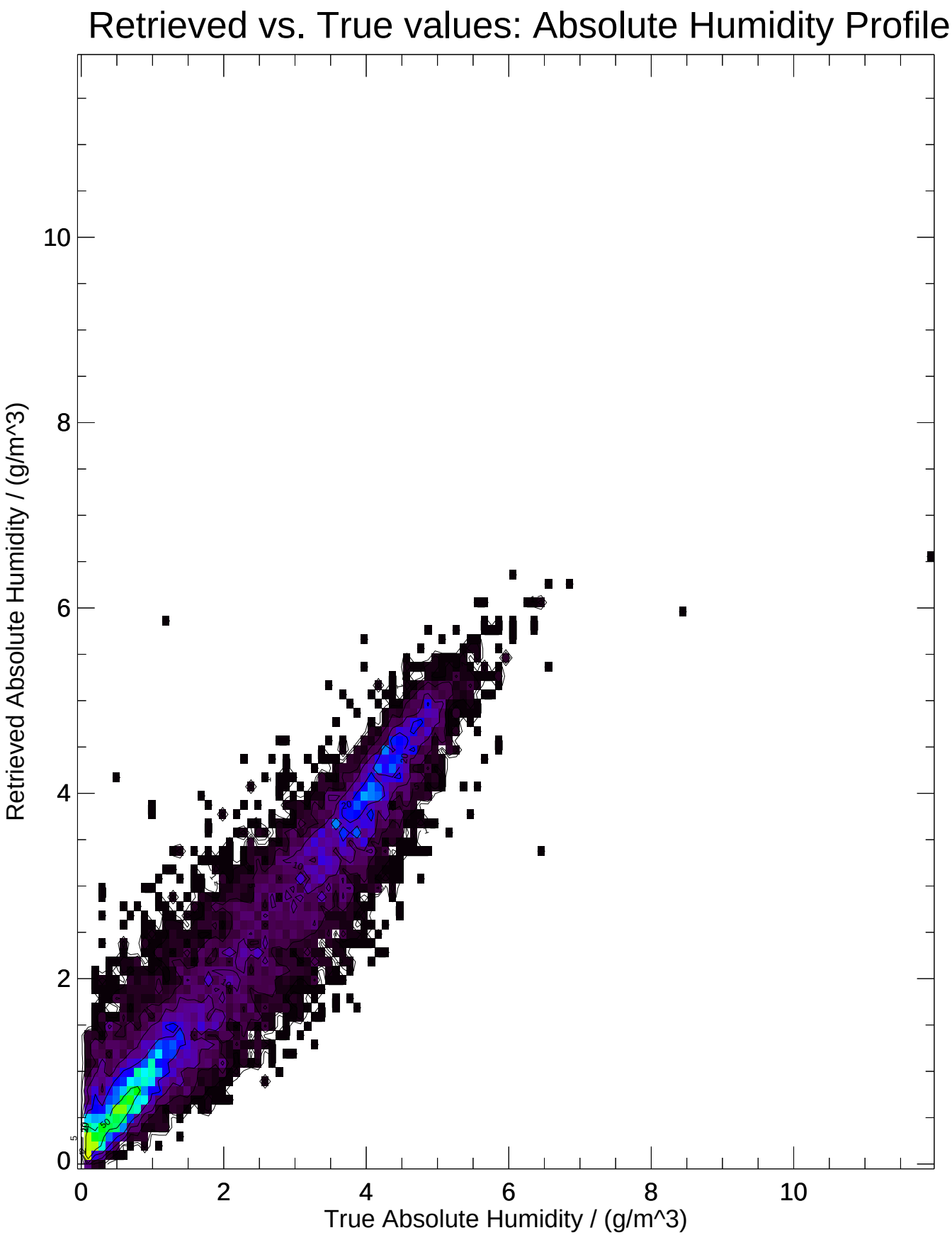

Relative Error (amplitude dependent)
Z = 3800 m
N=1975
N=1676
N=1110
N=818
N=916
N=1204
N=1366
N=638
N=91
N=21
N=3
N=1
N=1
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
2
4
6
8
10

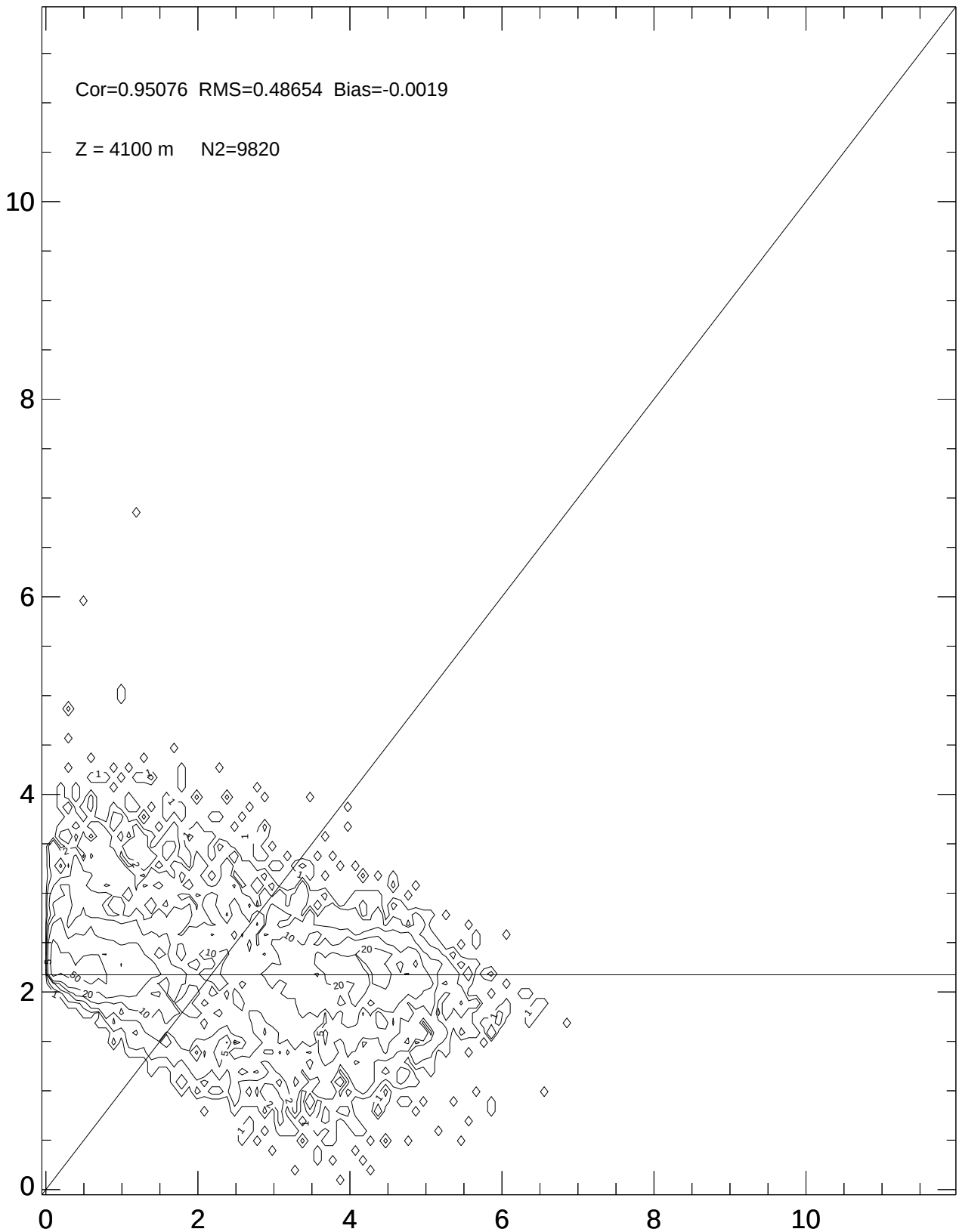

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

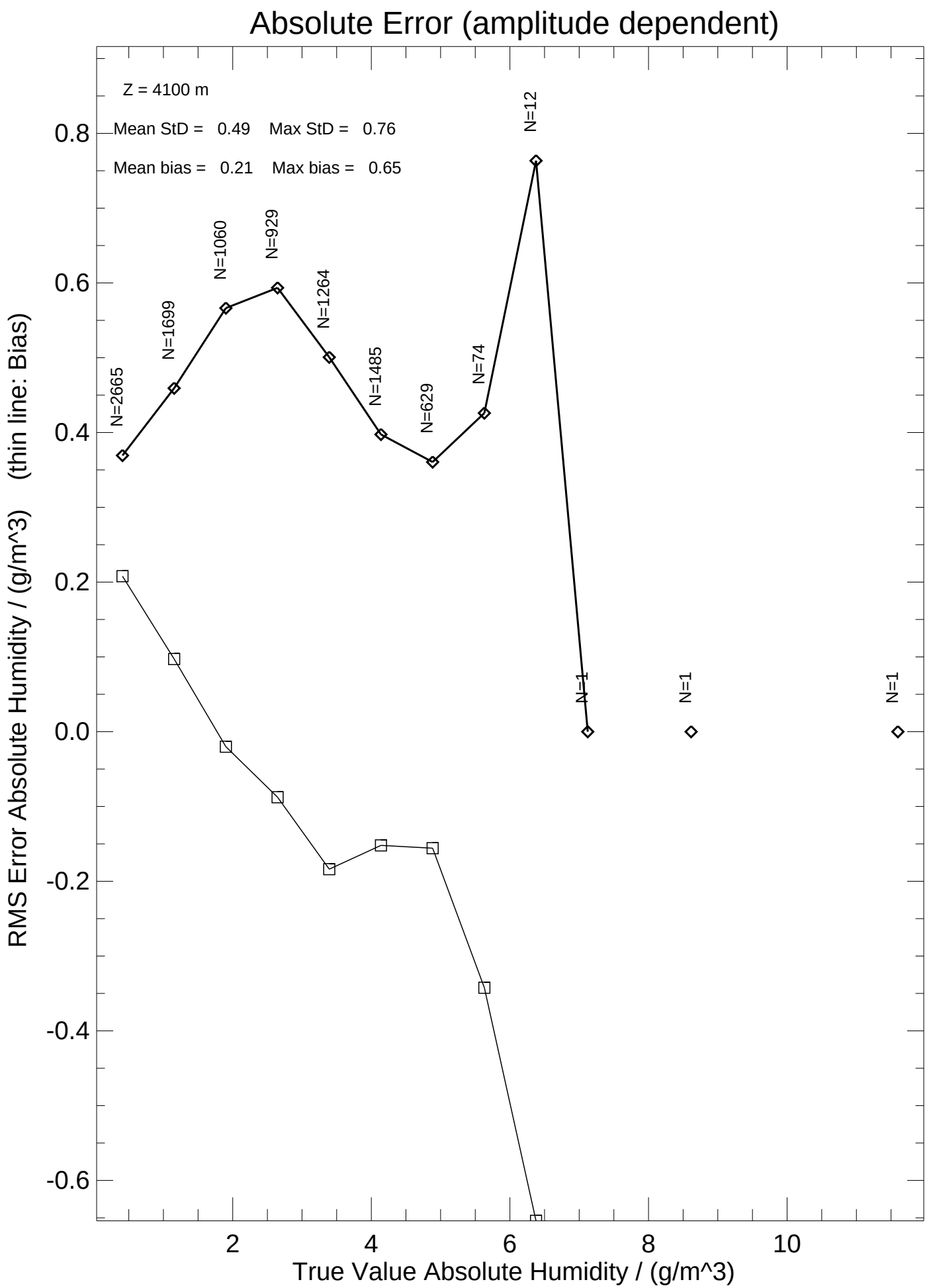

Cor=0.95109 RMS=0.50855 Bias=-0.0045
Z = 3950 m N2=9820
0
2
4
6
8
10

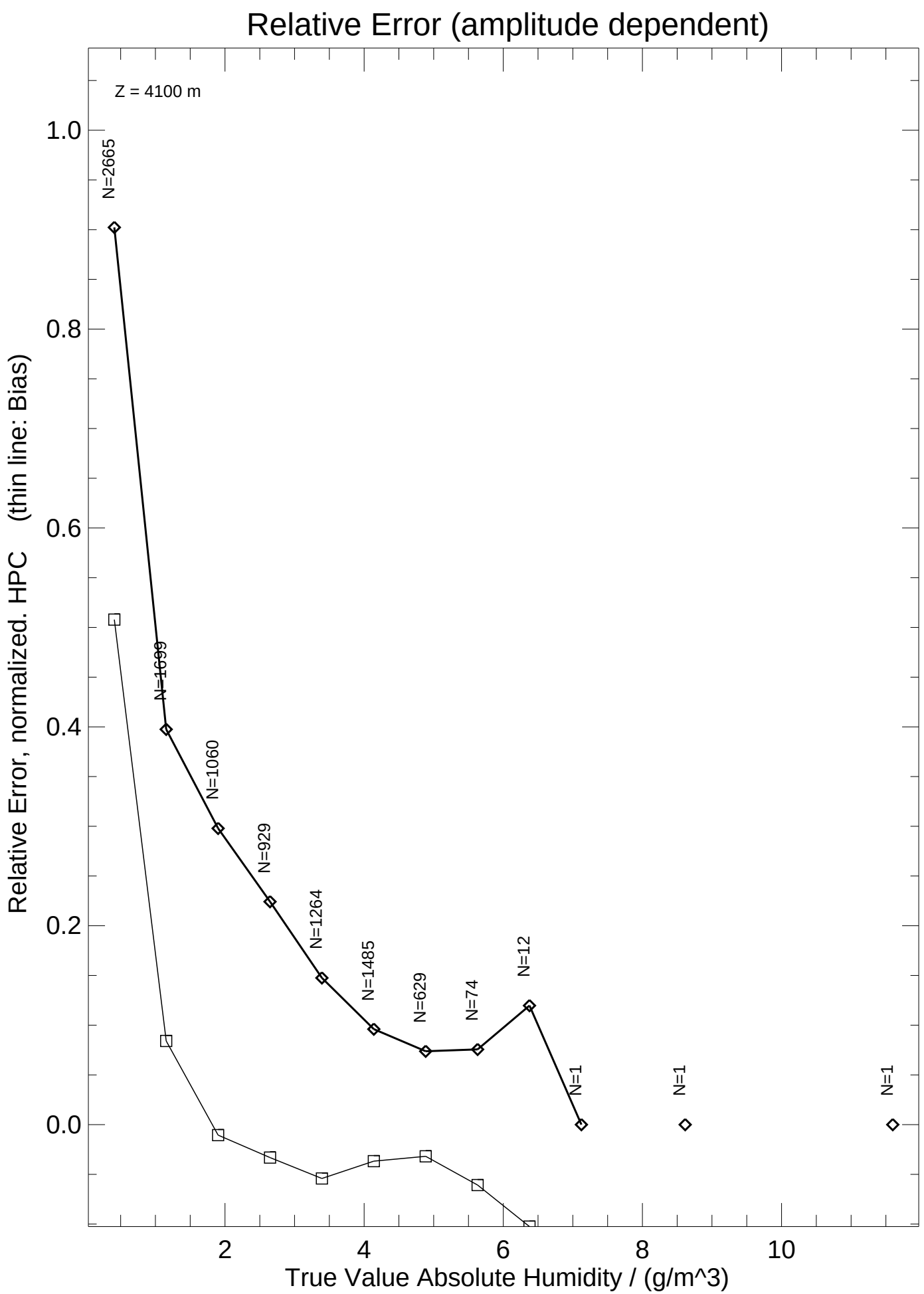

Absolute Error (amplitude dependent)
Z = 3950 m
Mean StD = 0.45 Max StD = 0.60
Mean bias = 0.22 Max bias = 0.61
N=2290
N=1720
N=1065
N=891
N=1015
N=1453
N=1094
N=219
N=35
N=6
N=1
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
2
4
6
8
10

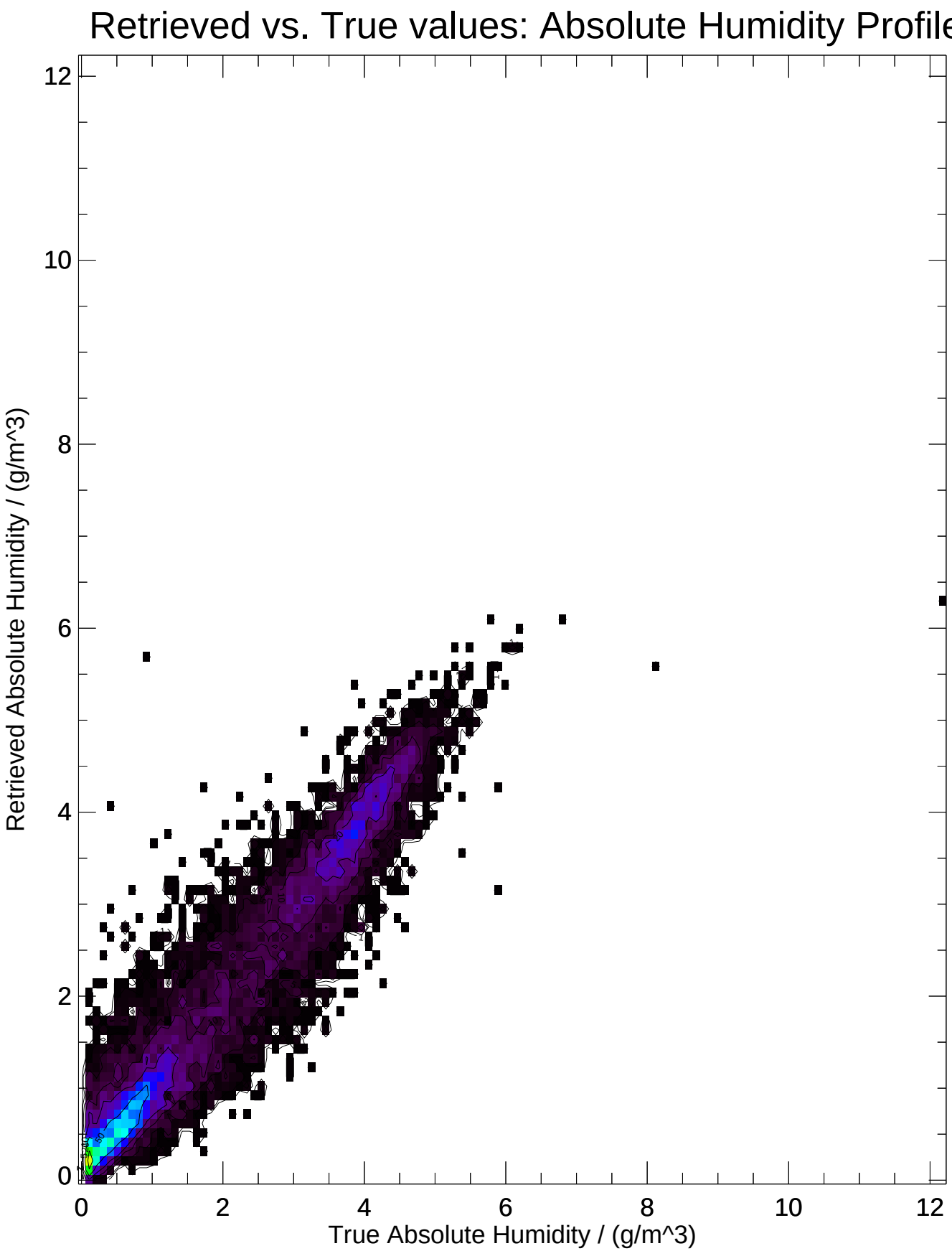

Relative Error (amplitude dependent)
Z = 3950 m
N=2290
N=1720
N=1065
N=891
N=1045
N=1453
N=1094
N=219
N=35
N=6
N=1
N=1
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2
4
6
8
10

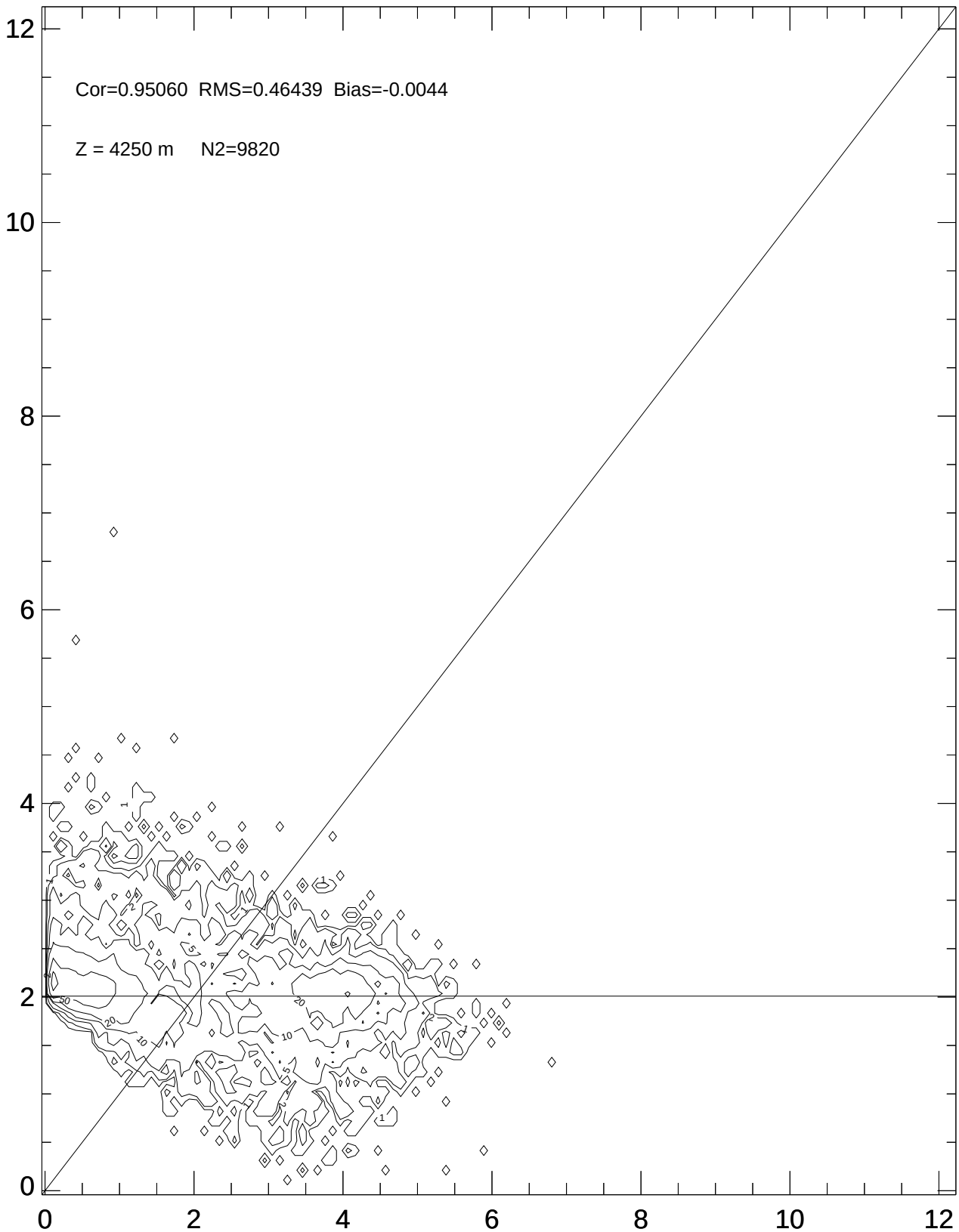

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

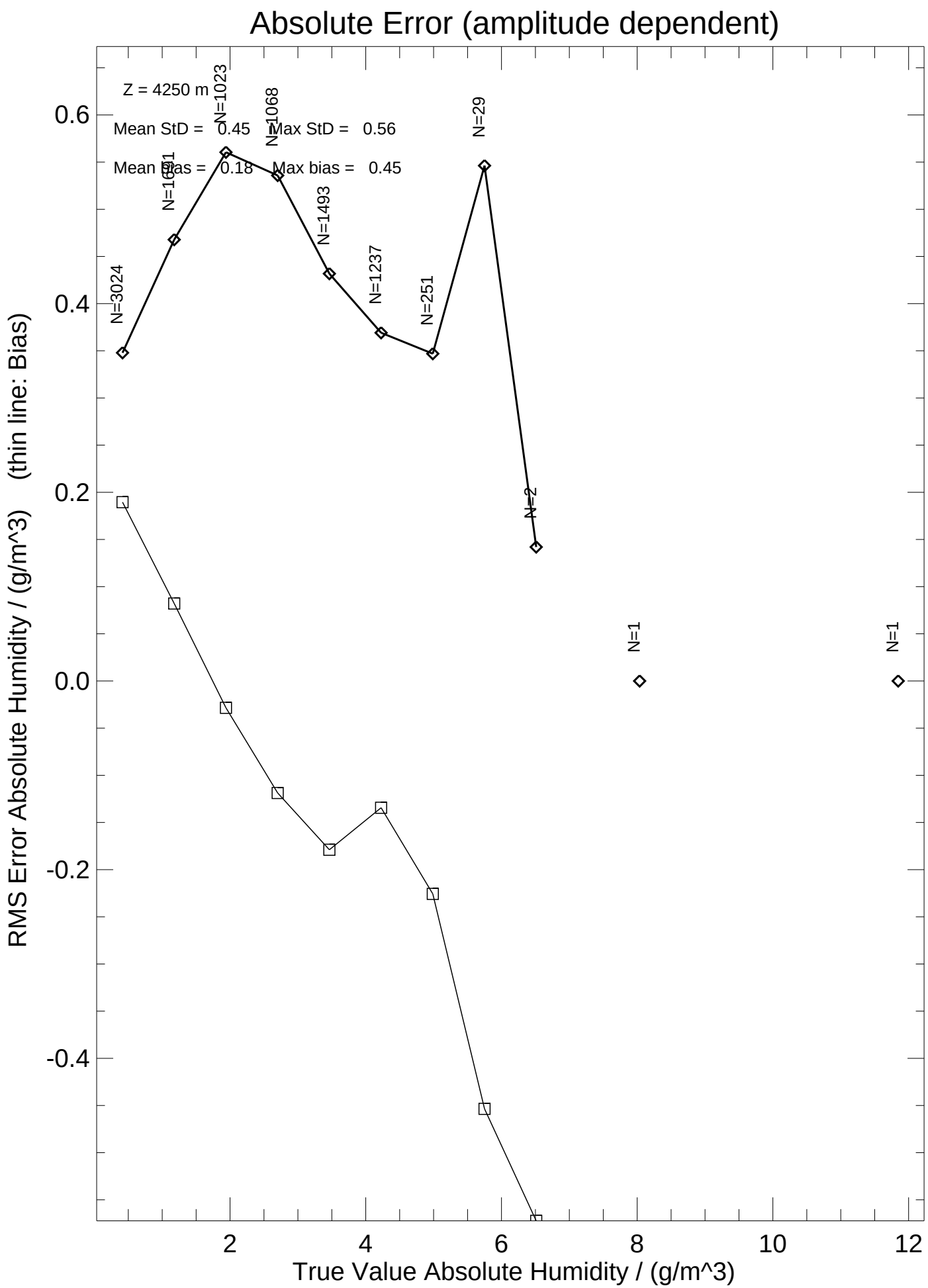

Cor=0.95076 RMS=0.48654 Bias=-0.0019
Z = 4100 m N2=9820
0
2
4
6
8
10

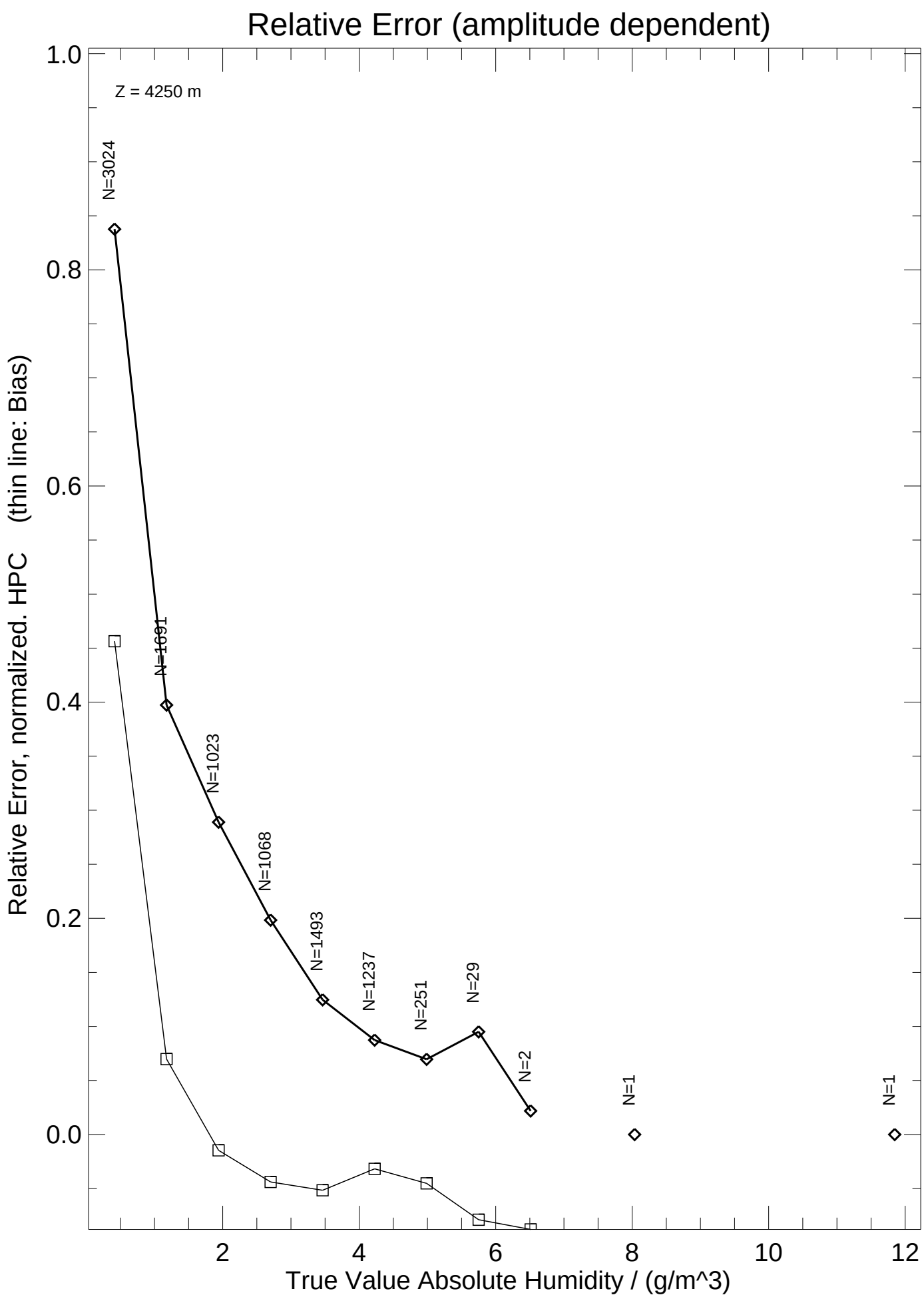

Absolute Error (amplitude dependent)
Z = 4100 m
Mean StD = 0.49 Max StD = 0.76
Mean bias = 0.21 Max bias = 0.65
N=2665
N=1699
N=1060
N=929
N=1264
N=1485
N=629
N=74
N=12
N=1
N=1
N=1
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
2
4
6
8
10
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

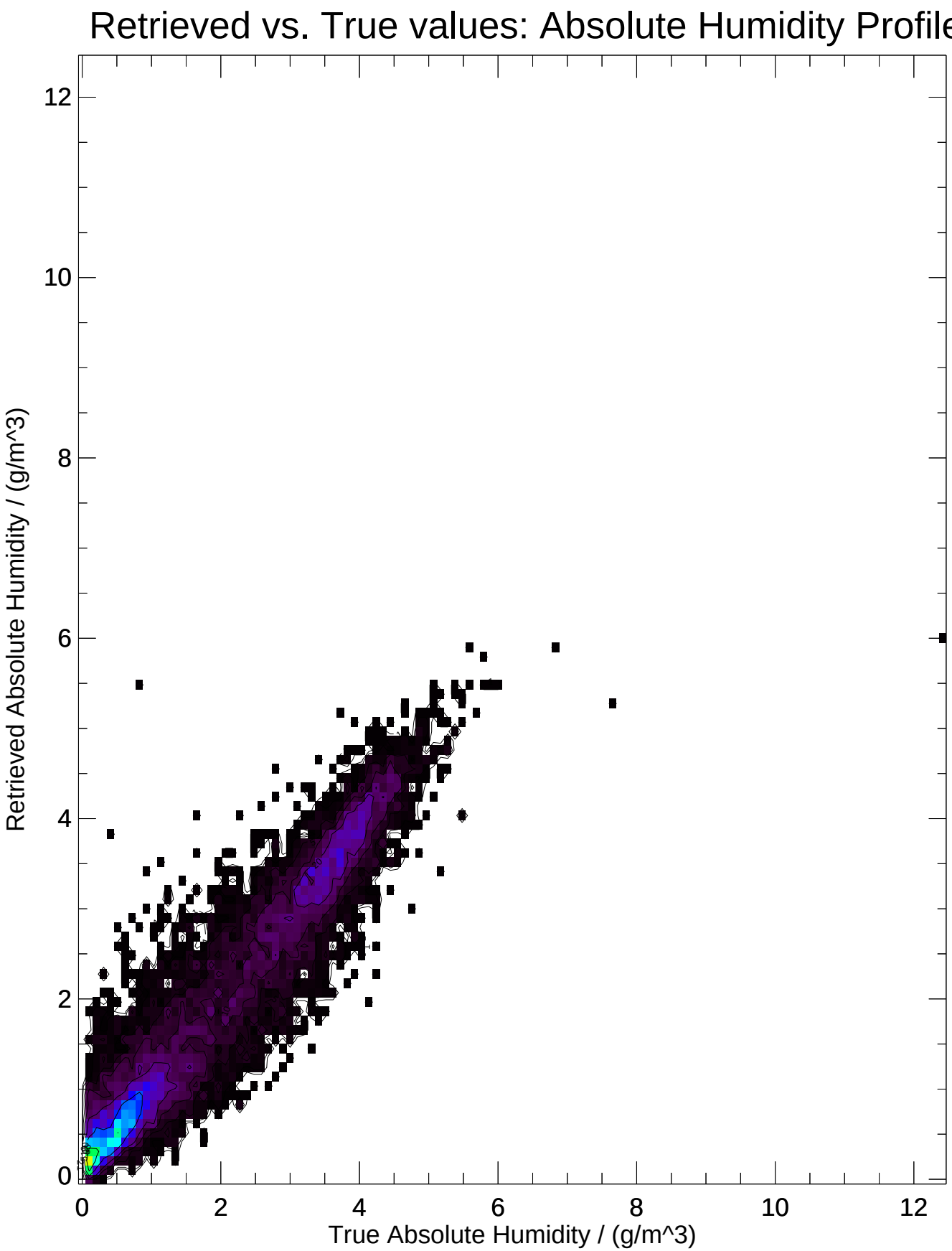

Relative Error (amplitude dependent)
Z = 4100 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
1.0
0.8
0.6
0.4
0.2
0.0
2
4
6
8
10
N=2665
N=1699
N=1060
N=929
N=1264
N=1485
N=629
N=74
N=12
N=1
N=1
N=1

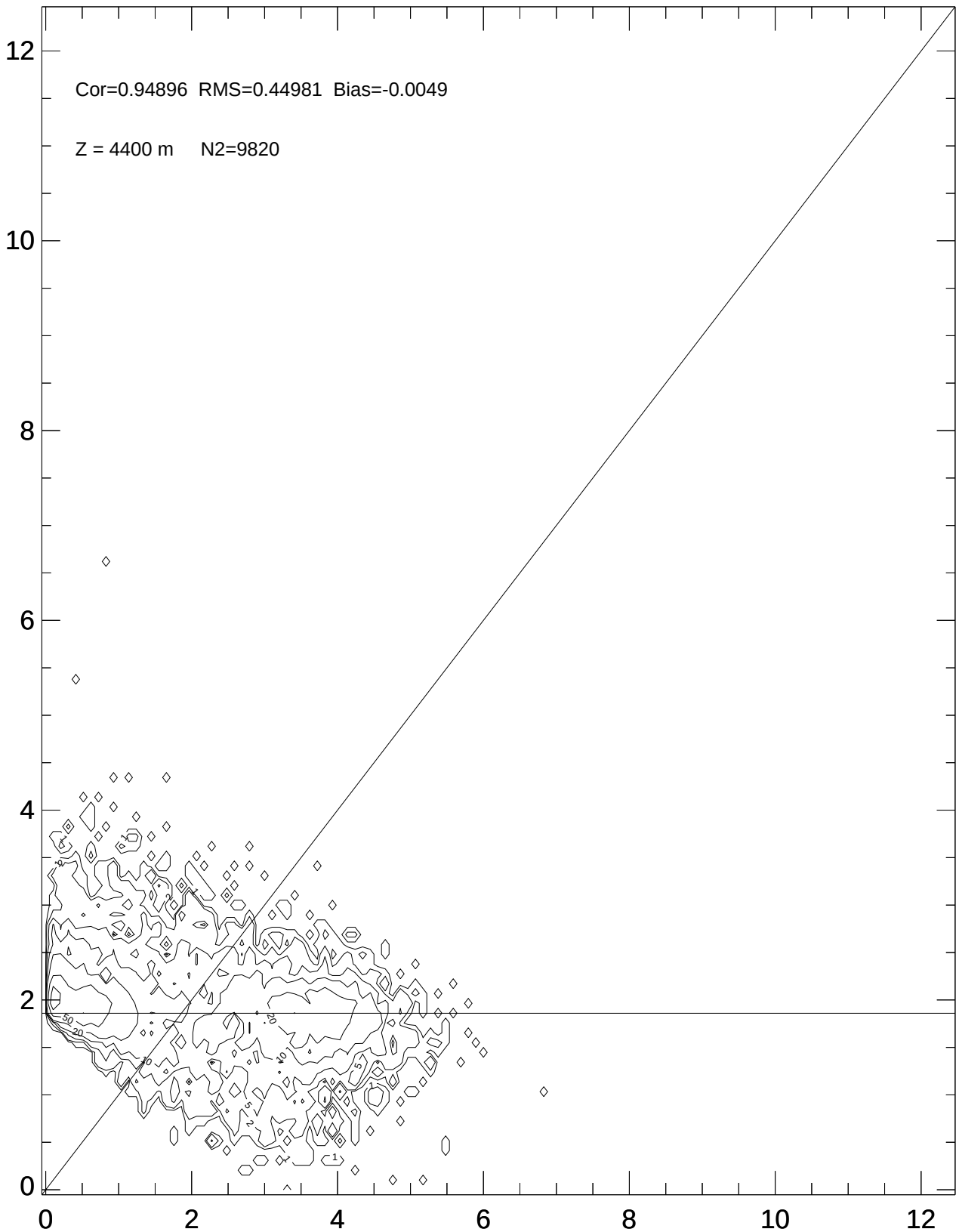

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12

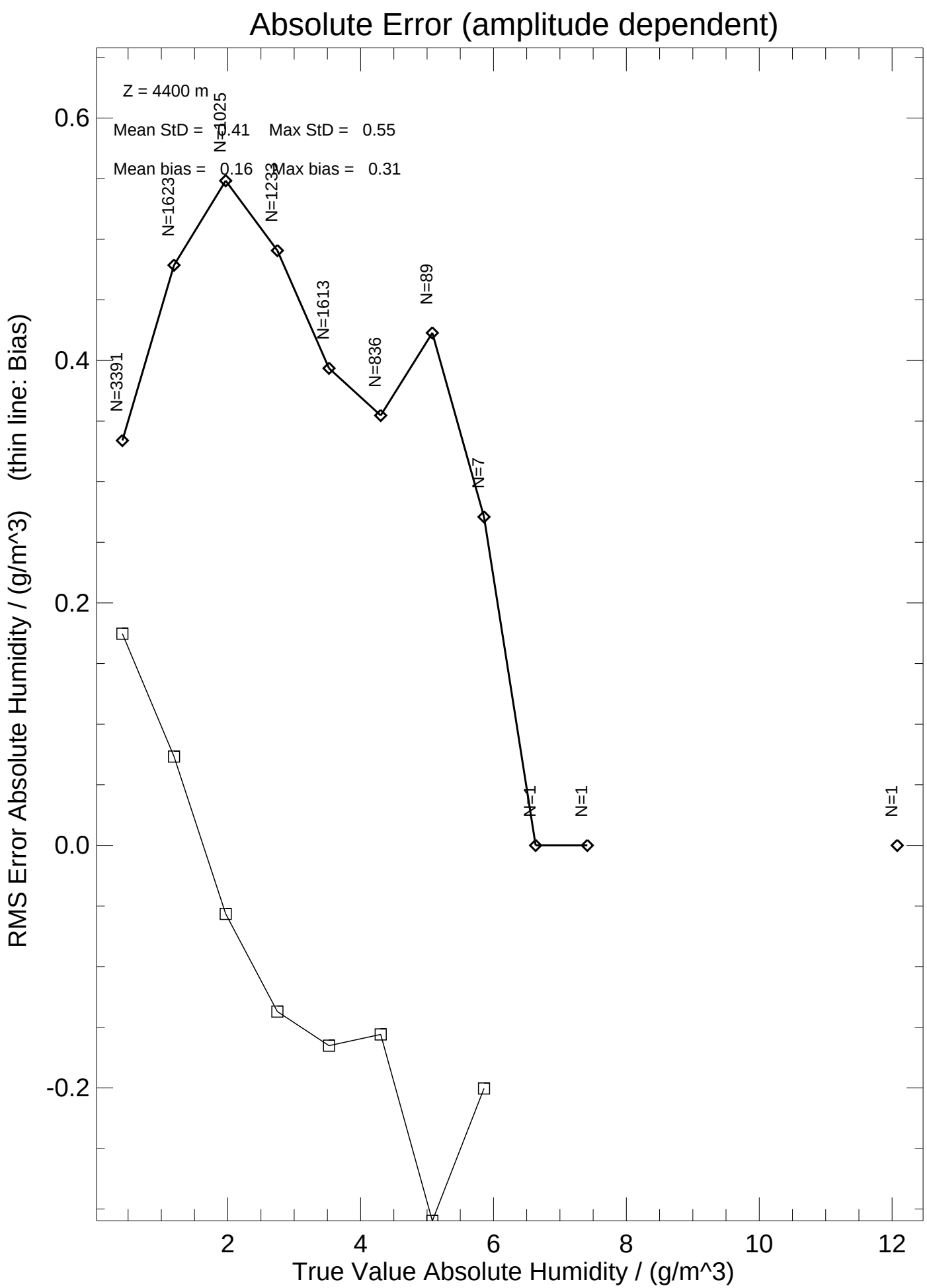

Cor=0.95060 RMS=0.46439 Bias=-0.0044
Z = 4250 m N2=9820
0
2
4
6
8
10
12

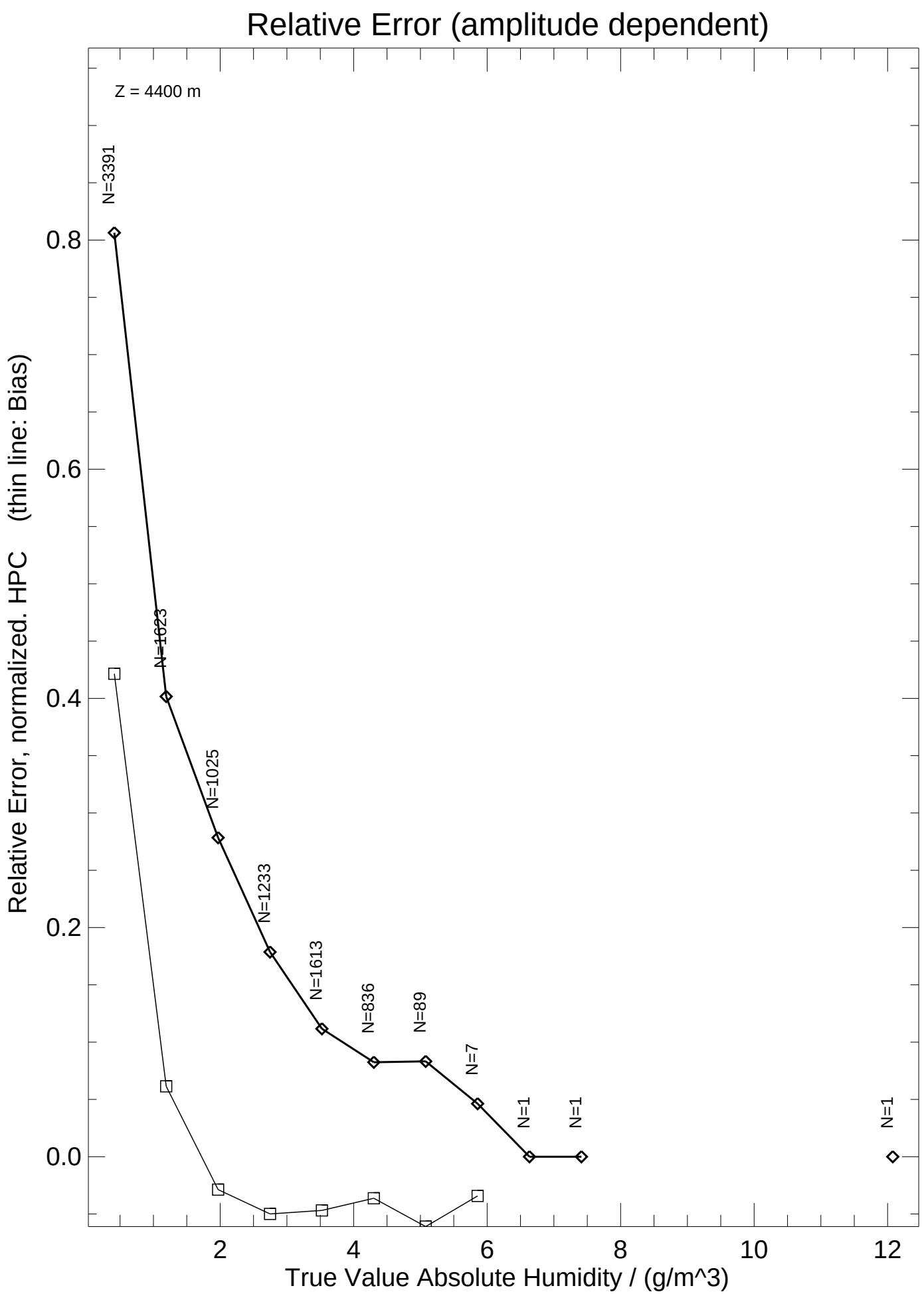

Absolute Error (amplitude dependent)
Z = 4250 m
Mean StD = 0.45 Max StD = 0.56
Mean bias = 0.18 Max bias = 0.45
N=3024
N=1611
N=1023
N=1068
N=1493
N=1237
N=251
N=29
N=2
N=1
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.6
0.4
0.2
0.0
-0.2
-0.4
2
4
6
8
10
12

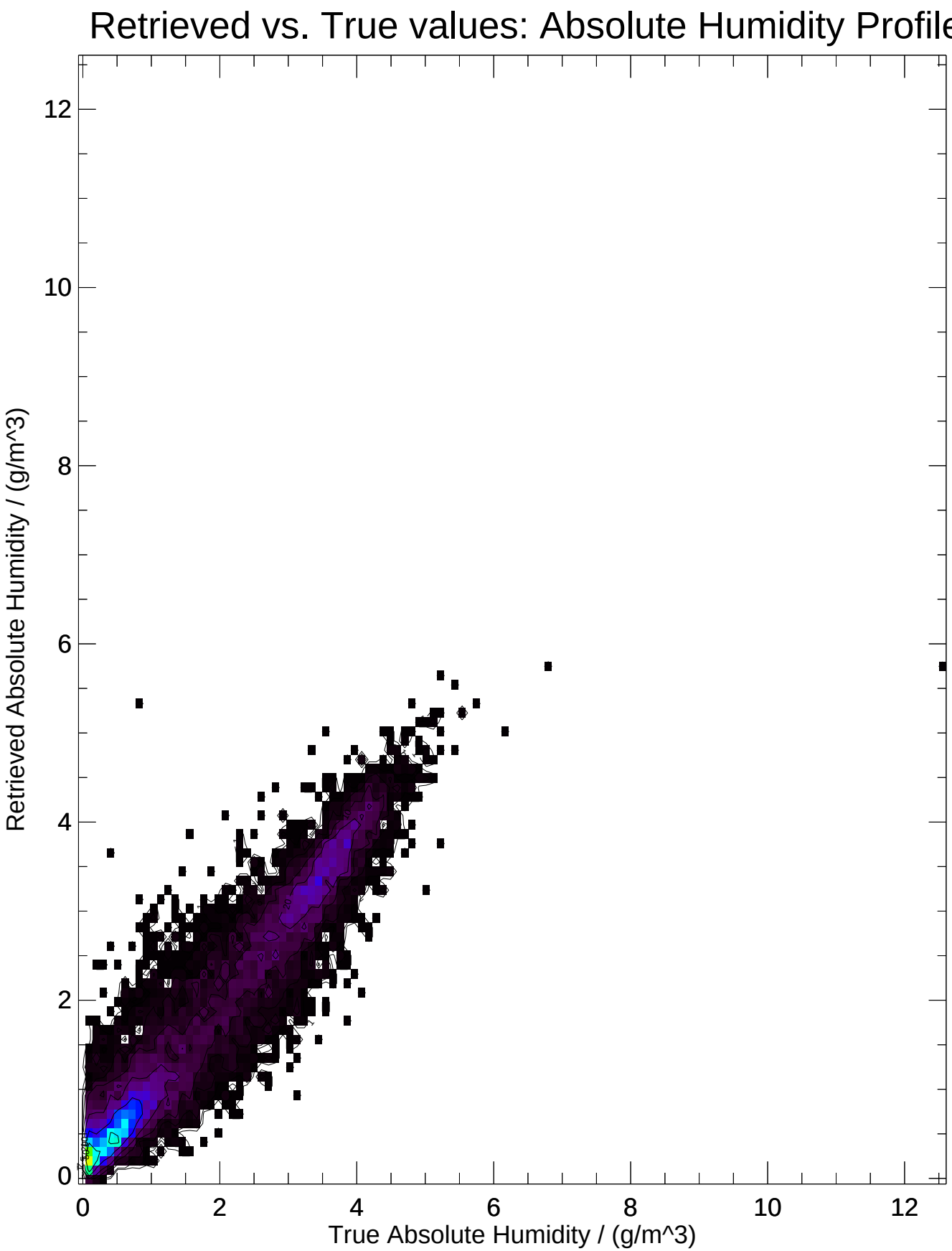

Relative Error (amplitude dependent)
Z = 4250 m
N=3024
N=1691
N=1023
N=1068
N=1493
N=1237
N=251
N=29
N=2
N=1
N=1
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
1.0
0.8
0.6
0.4
0.2
0.0
2
4
6
8
10
12

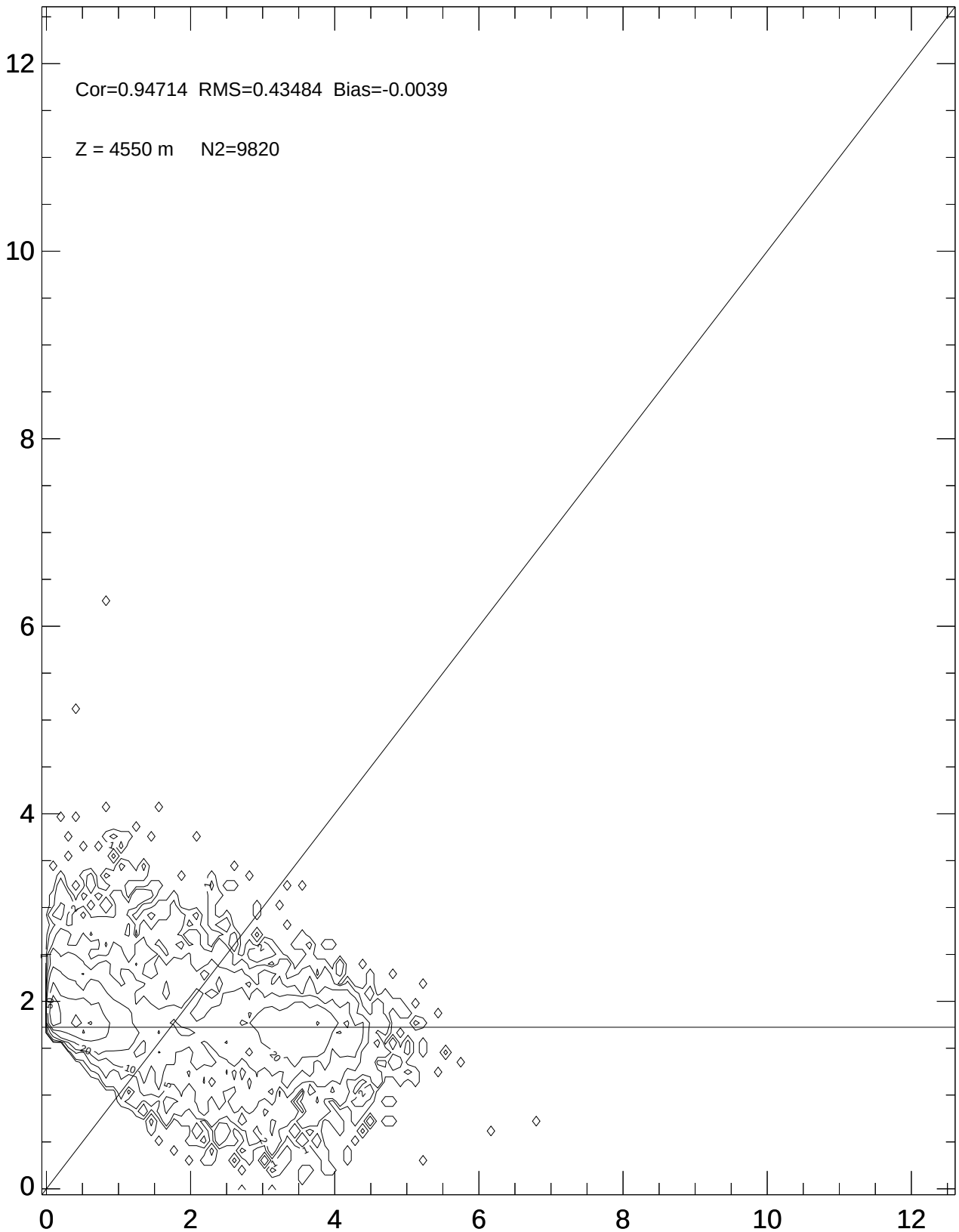

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12

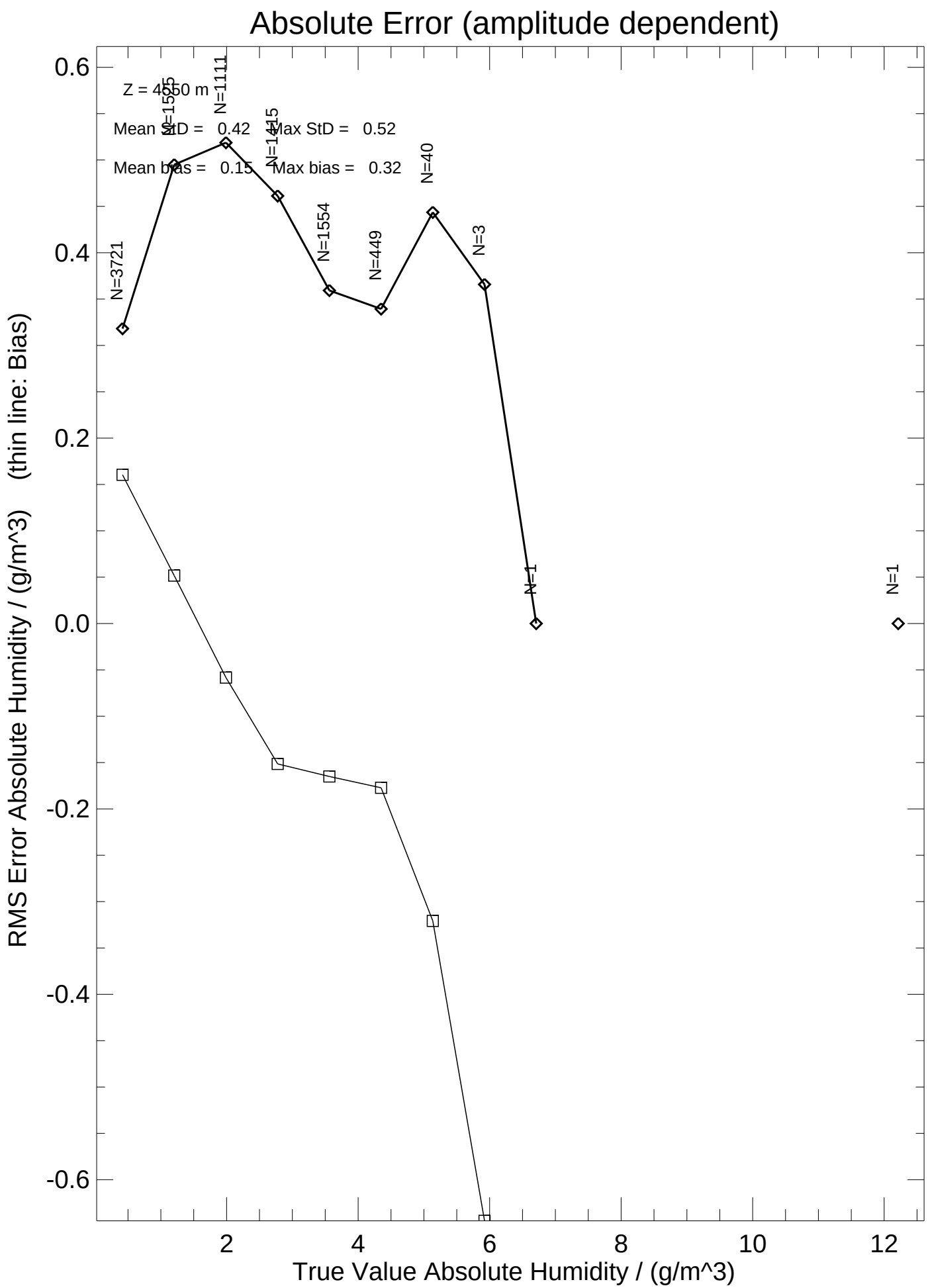

Cor=0.94896 RMS=0.44981 Bias=-0.0049
Z = 4400 m N2=9820
0
2
4
6
8
10
12

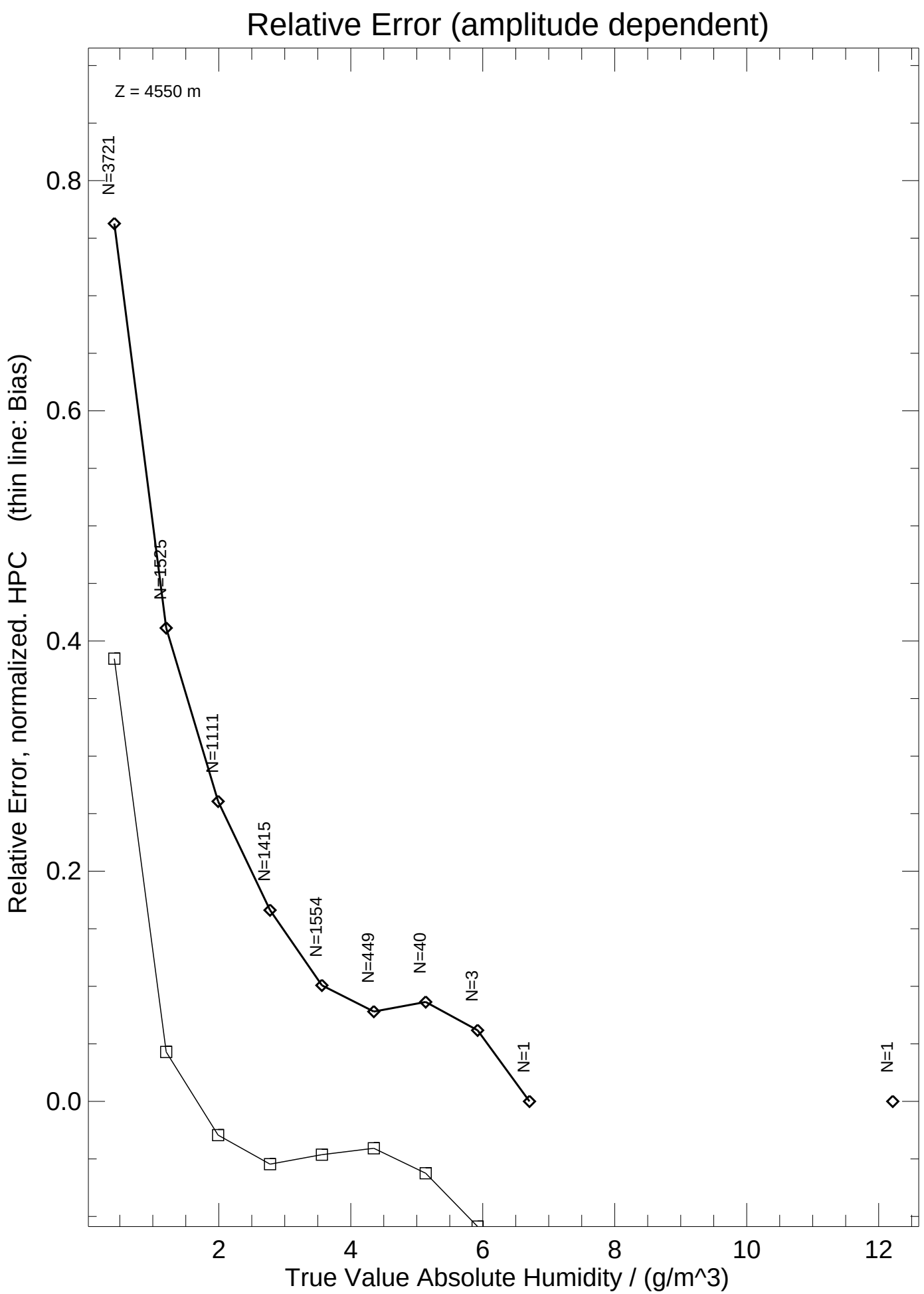

Absolute Error (amplitude dependent)
Z = 4400 m
Mean StD = 0.41 Max StD = 0.55
Mean bias = 0.16 Max bias = 0.31
N=3391
N=1623
N=1025
N=1233
N=1613
N=836
N=89
N=7
N=1
N=1
N=1
0.6
0.4
0.2
0.0
-0.2
2
4
6
8
10
12
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

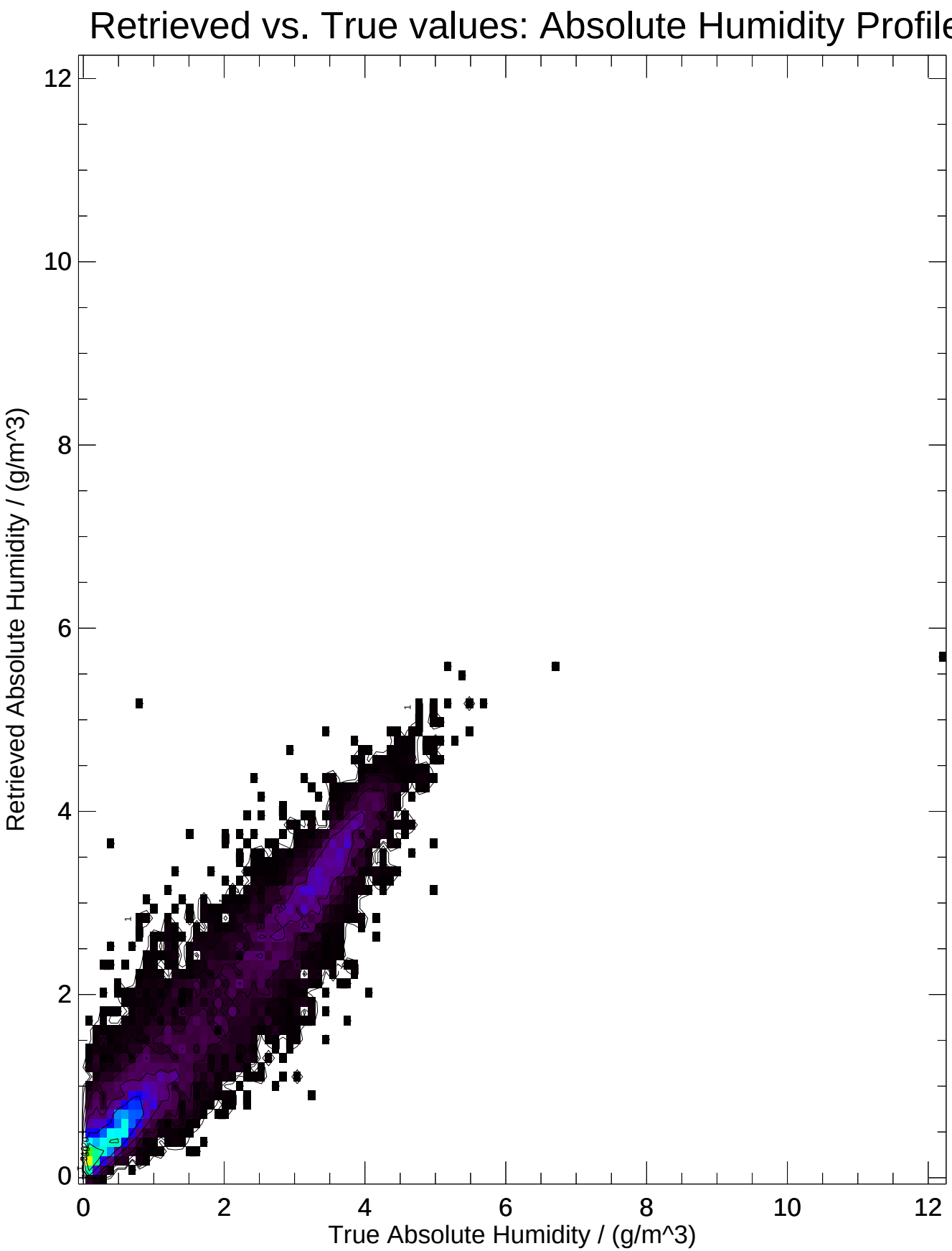

Relative Error (amplitude dependent)
Z = 4400 m
N=3391
N=1623
N=1025
N=1233
N=1613
N=836
N=89
N=7
N=1
N=1
N=1
0.8
0.6
0.4
0.2
0.0
2
4
6
8
10
12
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

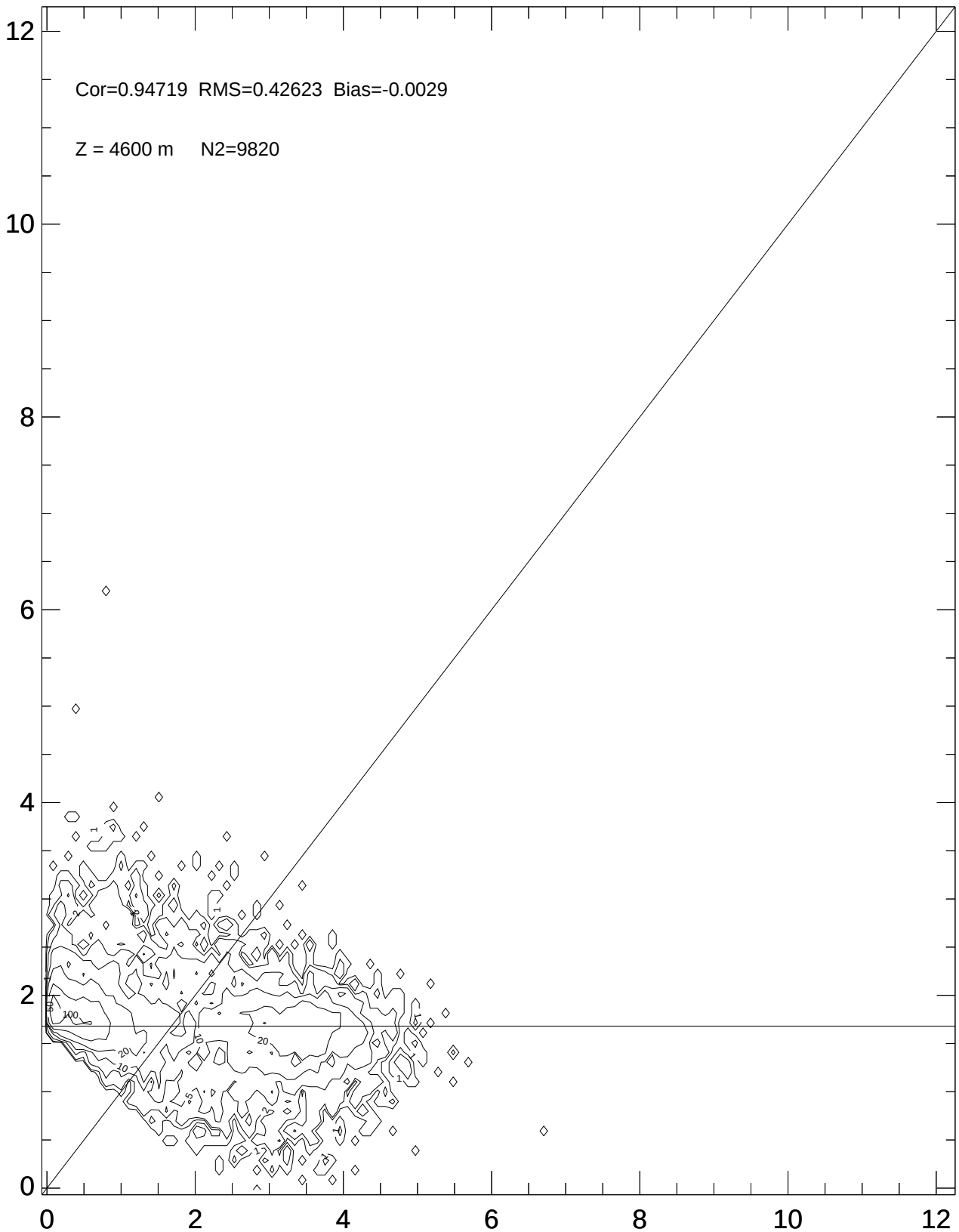

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12

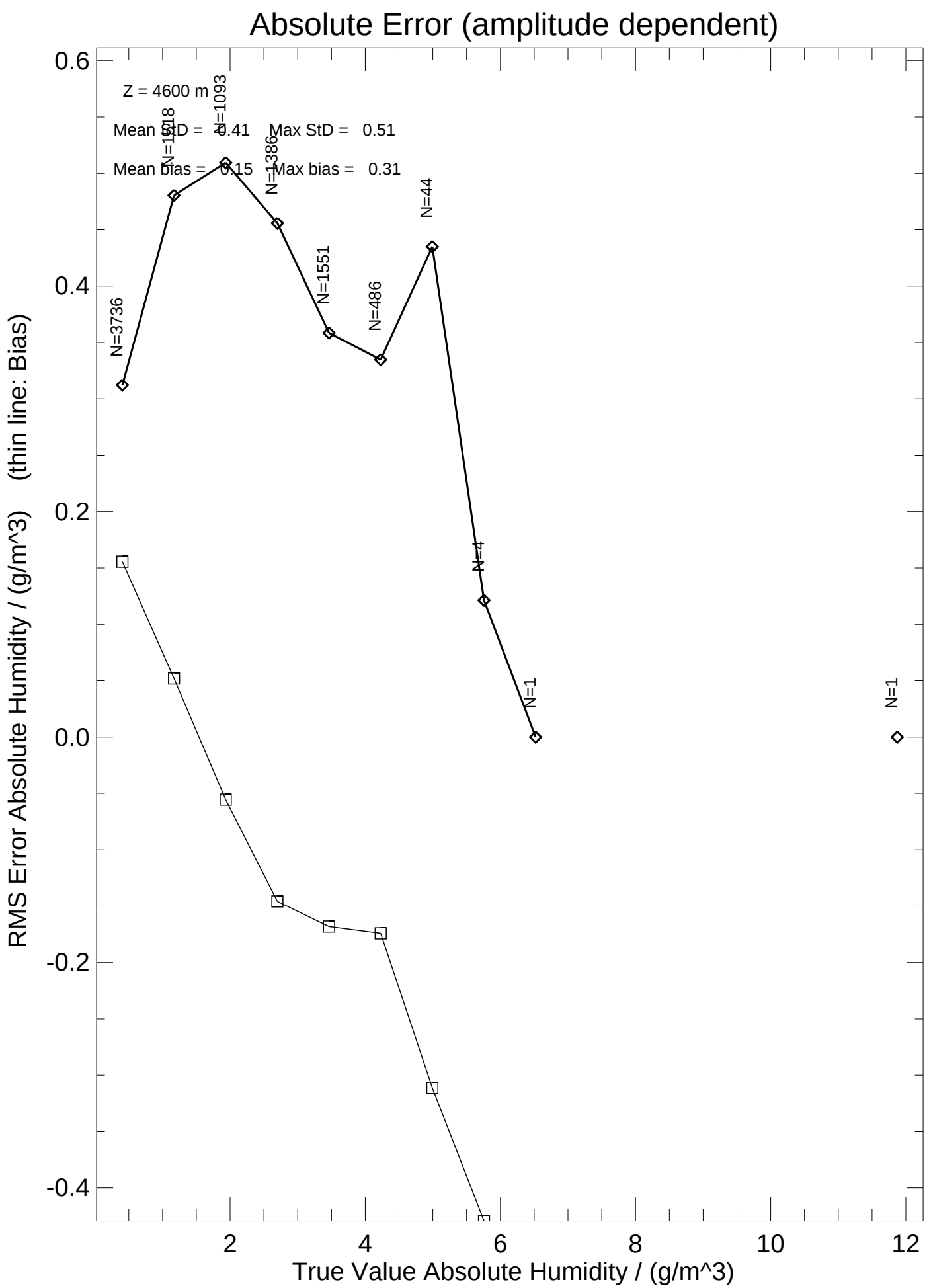

Cor=0.94714 RMS=0.43484 Bias=-0.0039
Z = 4550 m N2=9820
0
2
4
6
8
10
12

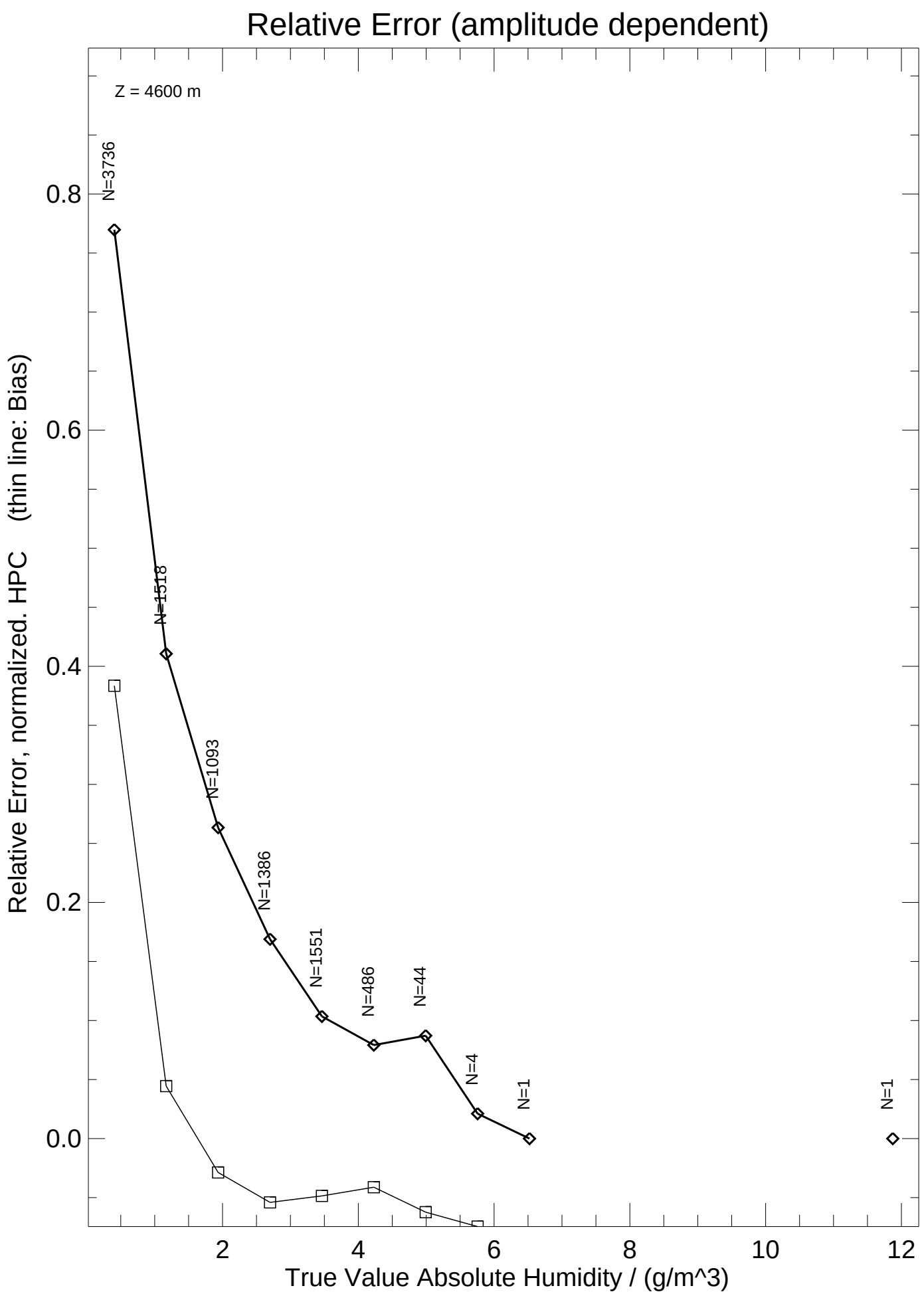

Absolute Error (amplitude dependent)
Z = 4550 m
Mean StD = 0.42 Max StD = 0.52
Mean bias = 0.15 Max bias = 0.32
N=3721
N=1555
N=1111
N=1415
N=1554
N=449
N=40
N=3
N=1
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
2
4
6
8
10
12

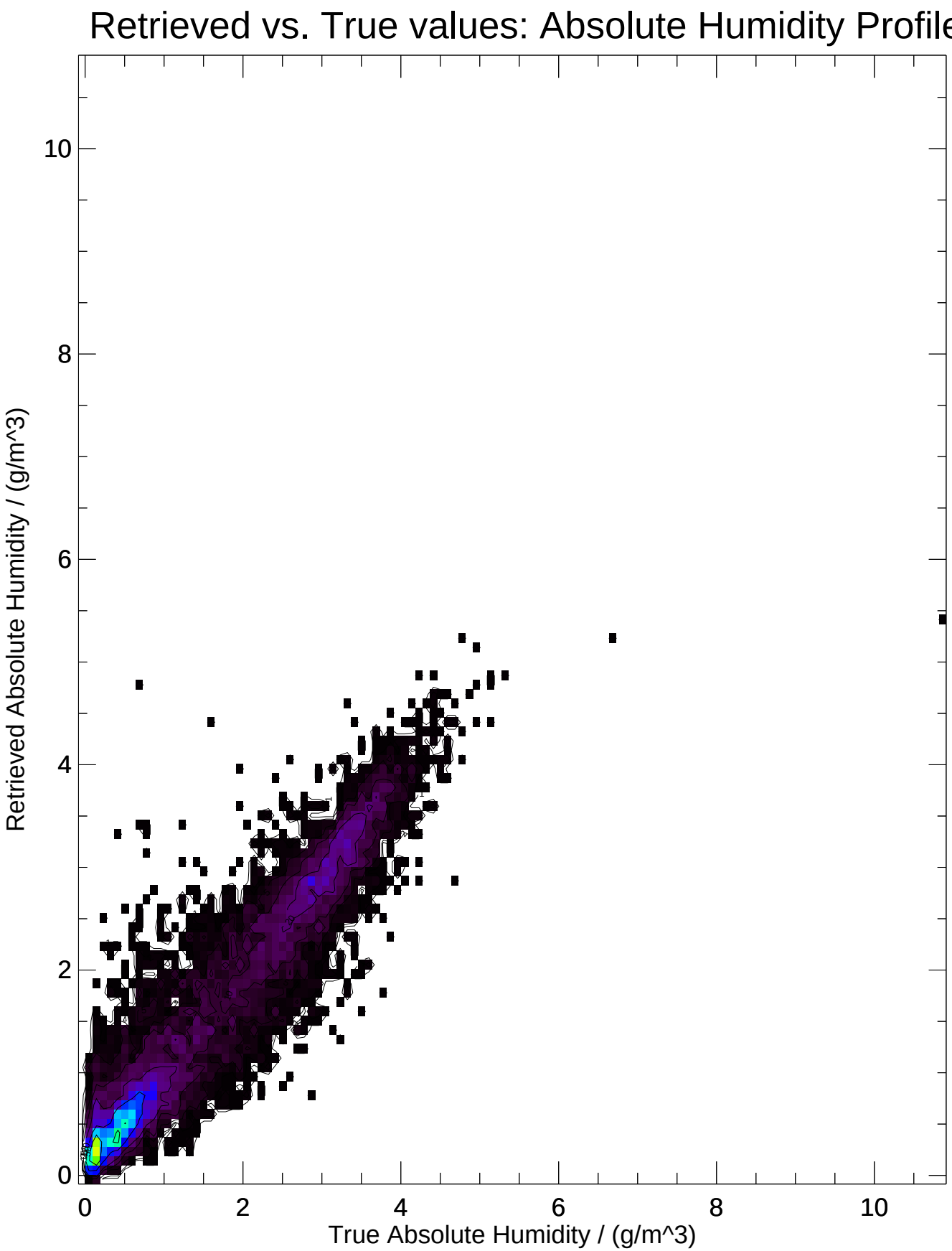

Relative Error (amplitude dependent)
Z = 4550 m
N=3721
N=1525
N=1111
N=1415
N=1554
N=449
N=40
N=3
N=1
N=1
Relative Error, normalized. HPC (thin line: Bias)
0.0
0.2
0.4
0.6
0.8
2
4
6
8
10
12
True Value Absolute Humidity / (g/m^3)

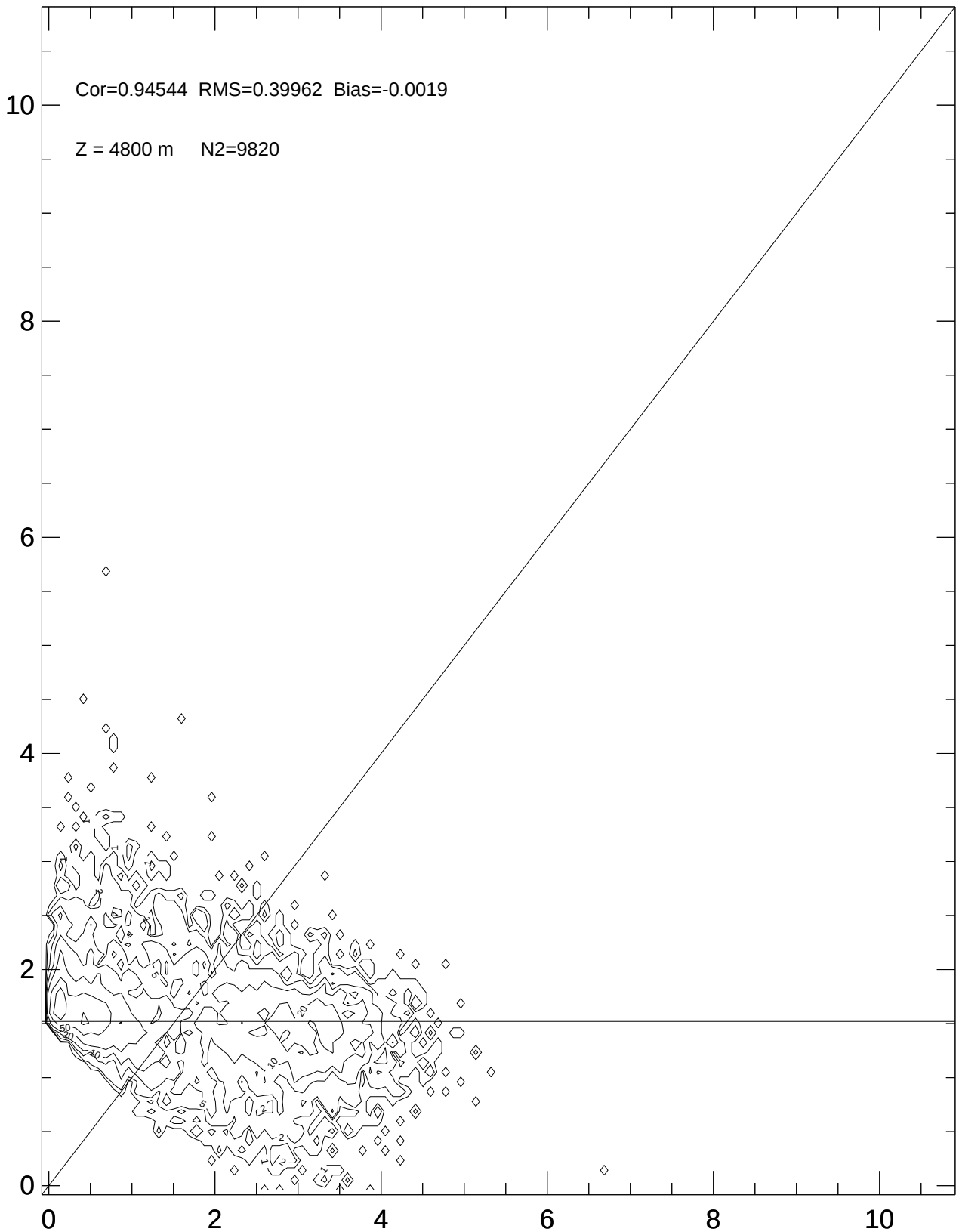

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12

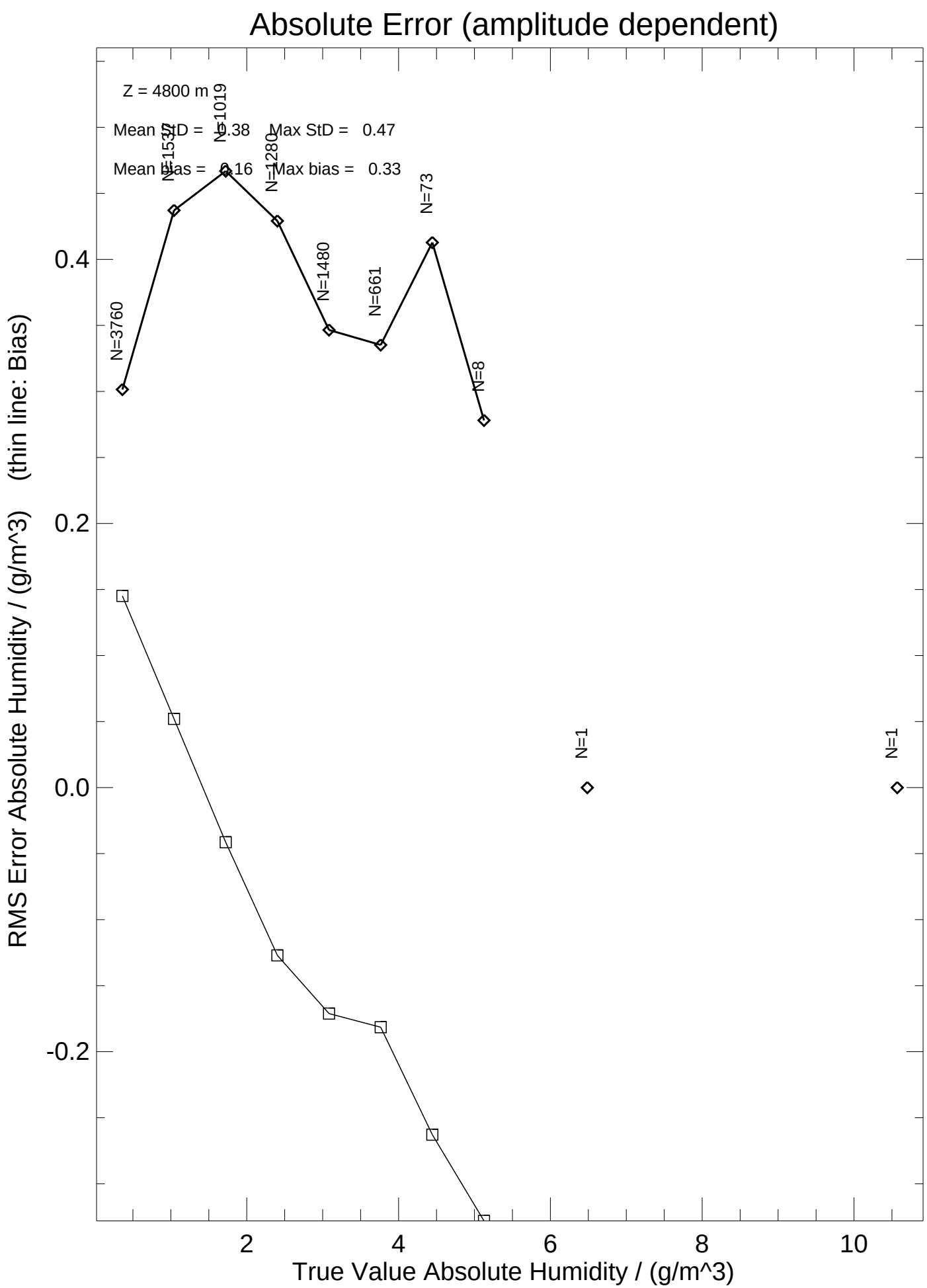

Cor=0.94719 RMS=0.42623 Bias=-0.0029
Z = 4600 m N2=9820
0
2
4
6
8
10
12

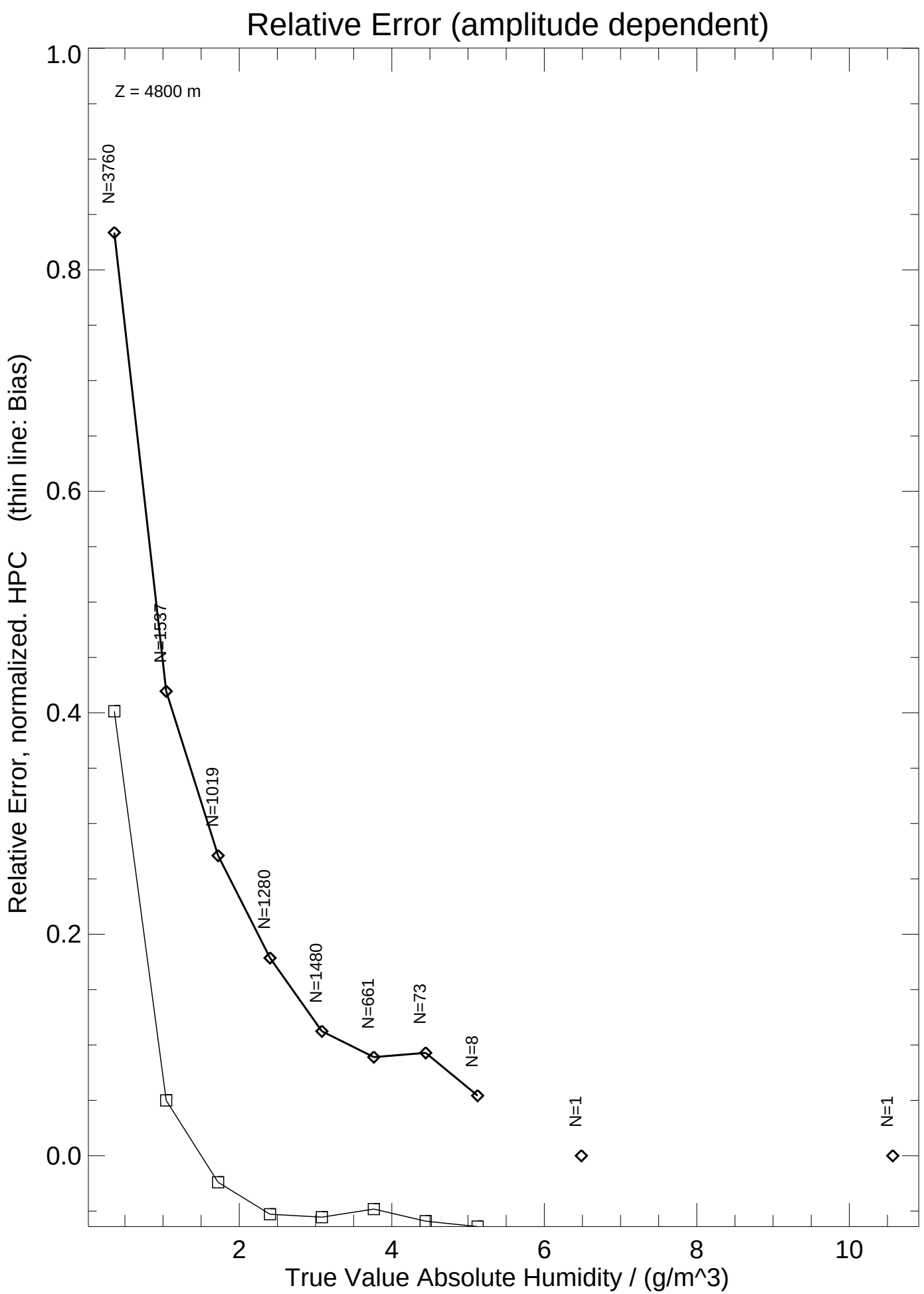

Absolute Error (amplitude dependent)
Z = 4600 m
Mean StD = 0.41 Max StD = 0.51
Mean bias = 0.15 Max bias = 0.31
N=3736
N=1518
N=1093
N=1386
N=1551
N=486
N=44
N=4
N=1
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.6
0.4
0.2
0.0
-0.2
-0.4
2
4
6
8
10
12

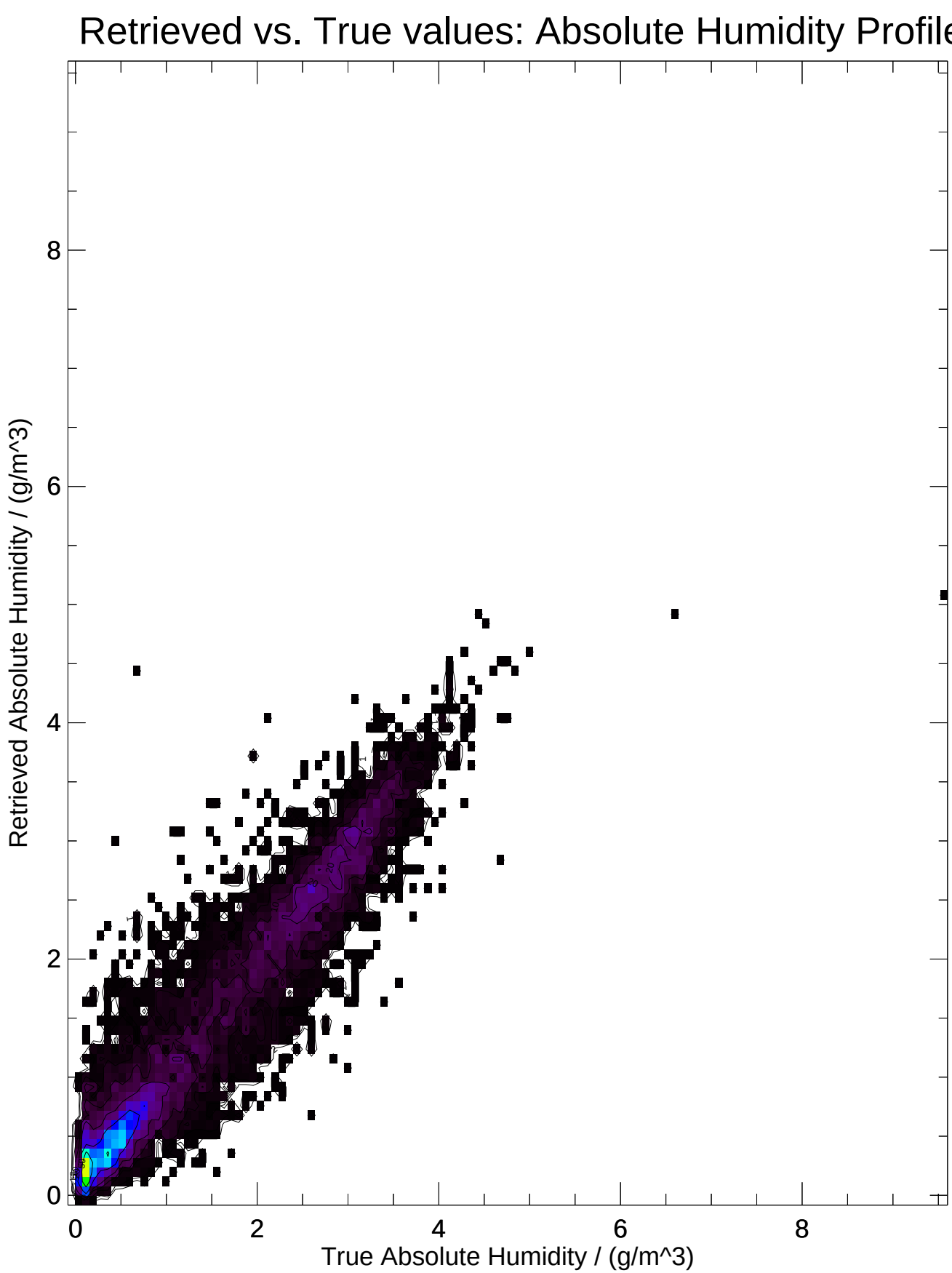

Relative Error (amplitude dependent)
Z = 4600 m
N=3736
N=1518
N=1093
N=1386
N=1551
N=486
N=44
N=4
N=1
N=1
Relative Error, normalized. HPC (thin line: Bias)
0.0
0.2
0.4
0.6
0.8
2
4
6
8
10
12
True Value Absolute Humidity / (g/m^3)

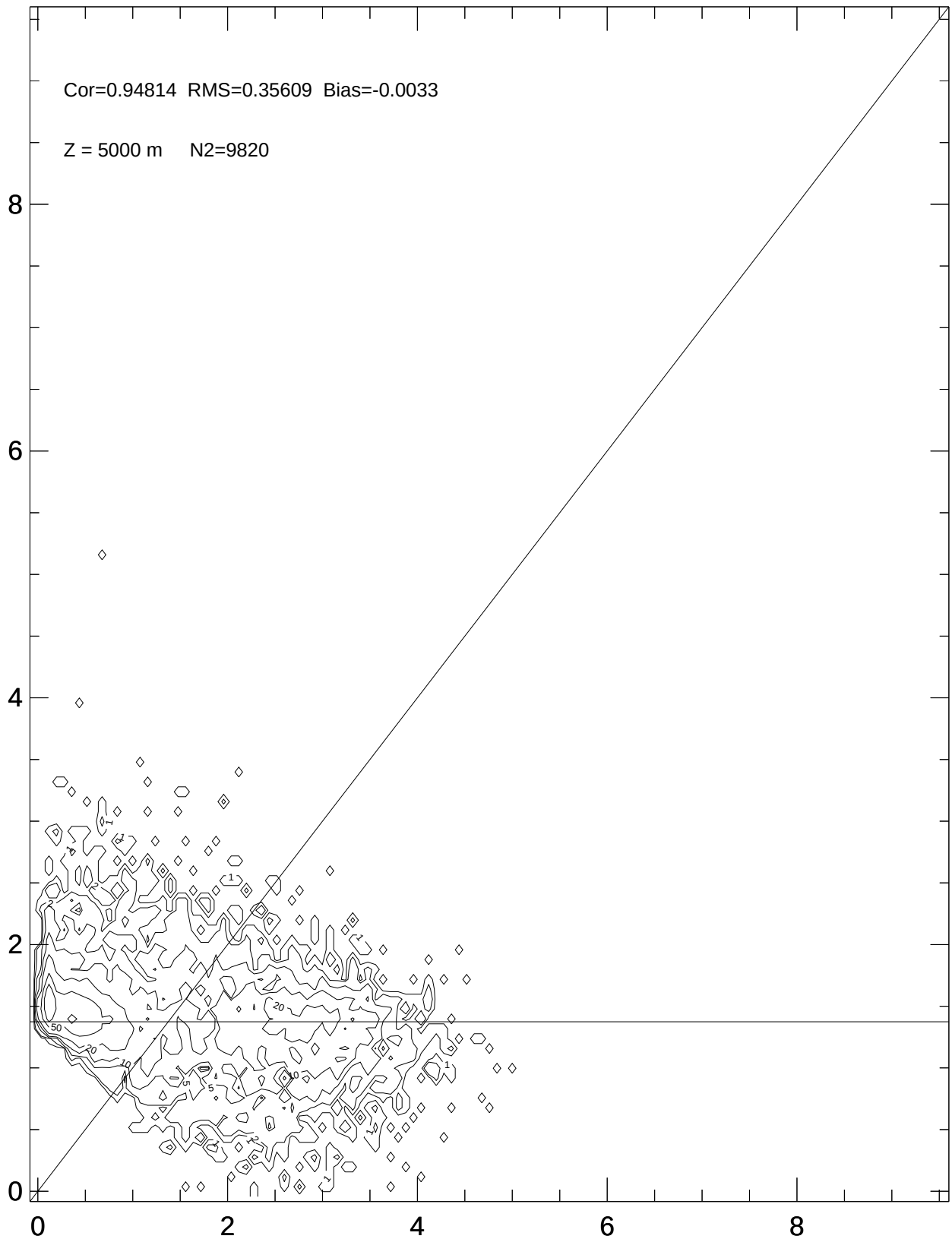

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10

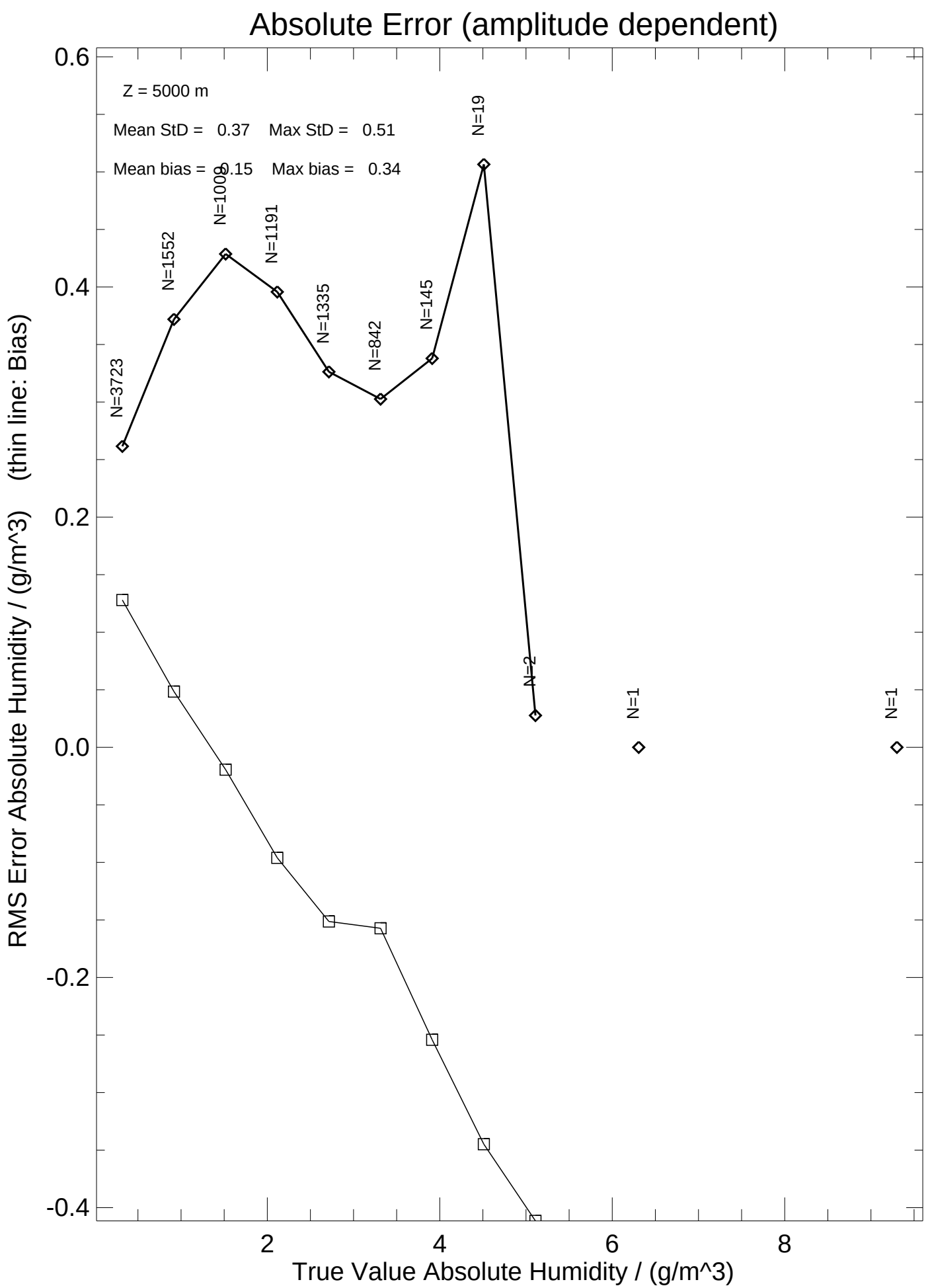

Cor=0.94544 RMS=0.39962 Bias=-0.0019
Z = 4800 m N2=9820
0
2
4
6
8
10
0
2
4
6
8
10

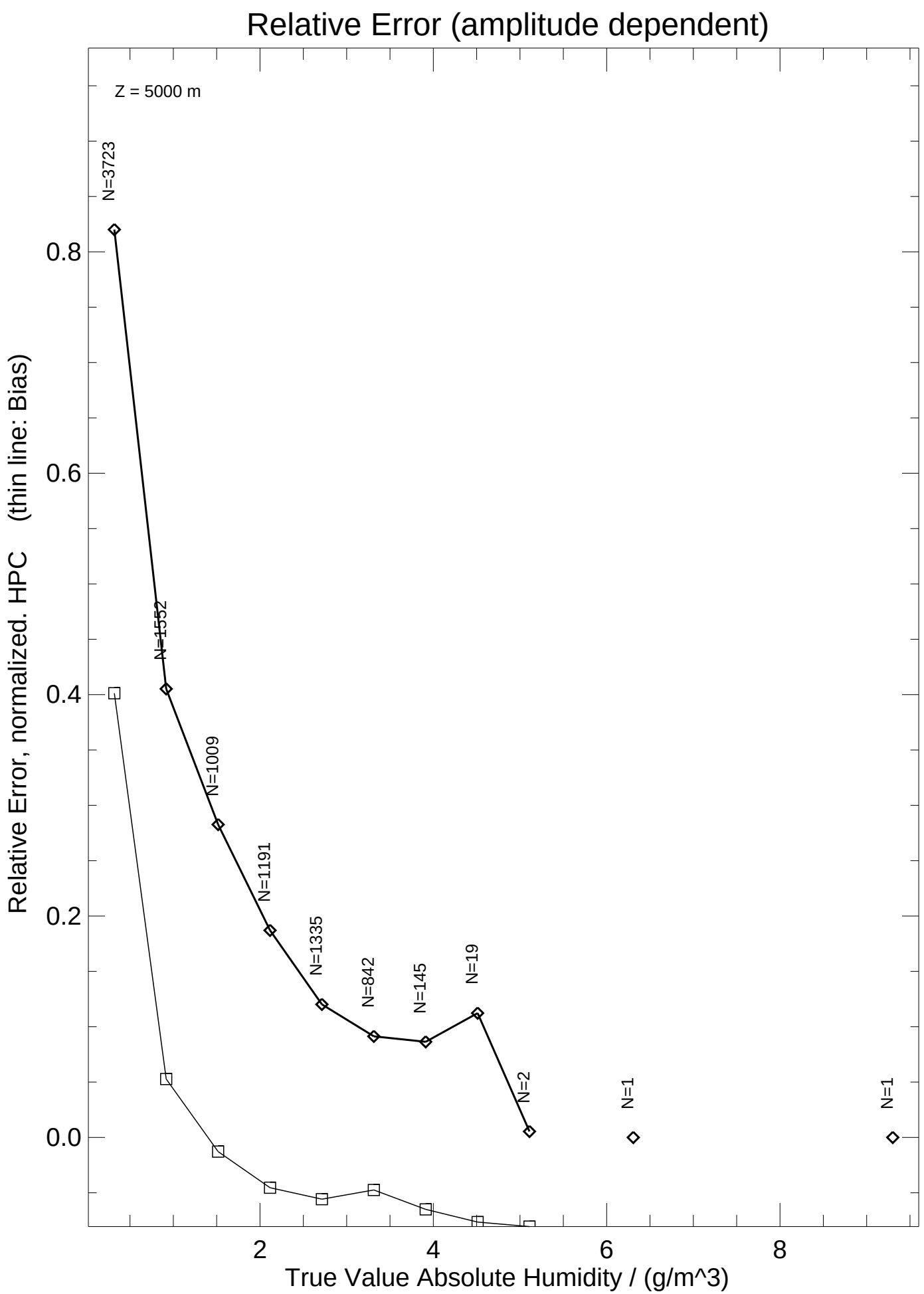

Absolute Error (amplitude dependent)
Z = 4800 m
Mean StD = 0.38 Max StD = 0.47
Mean bias = 0.16 Max bias = 0.33
N=3760
N=1537
N=1019
N=1280
N=1480
N=661
N=73
N=8
N=1
N=1
0.4
0.2
0.0
-0.2
2
4
6
8
10
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

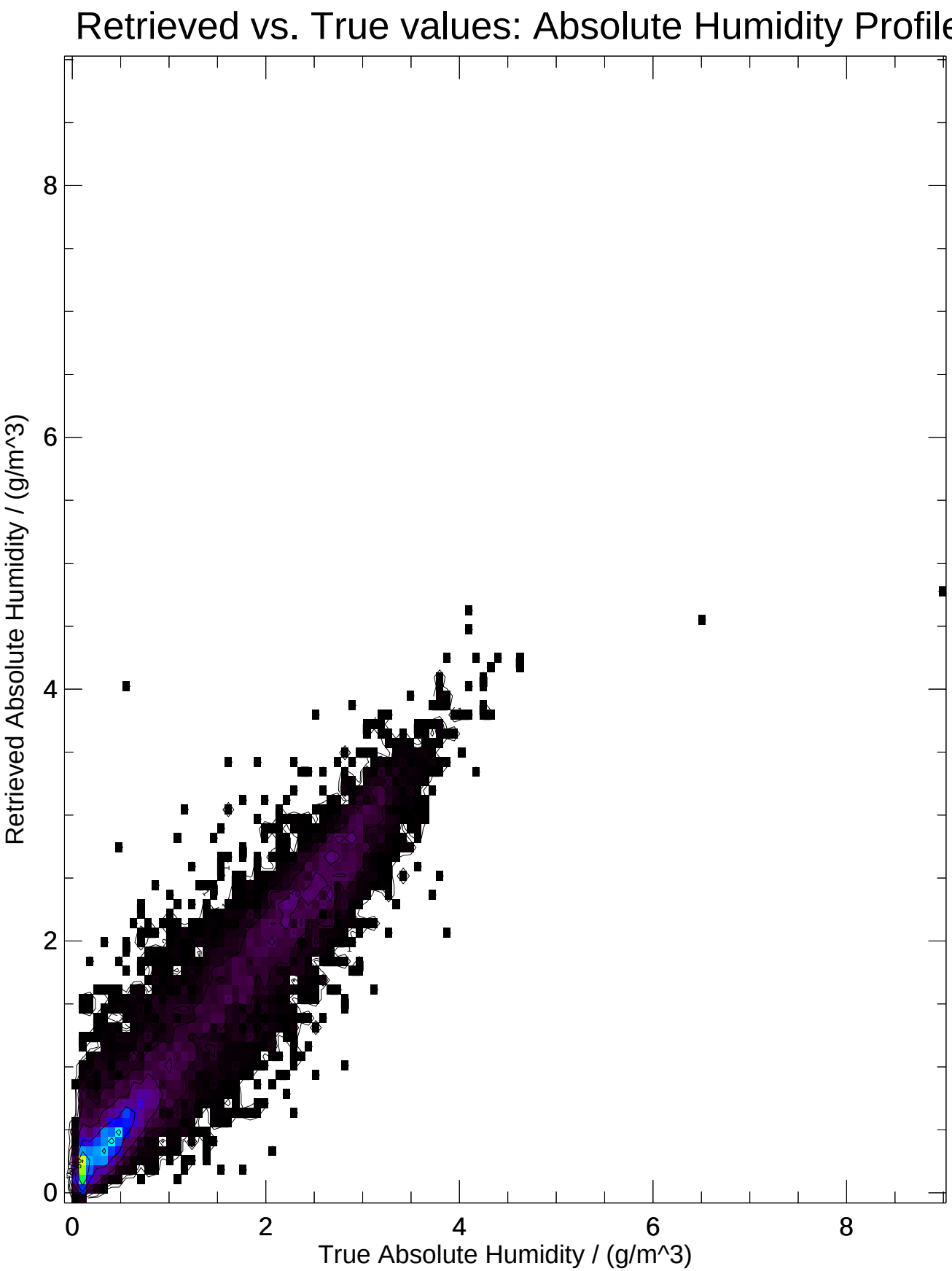

Relative Error (amplitude dependent)
Z = 4800 m
N=3760
N=1537
N=1019
N=1280
N=1480
N=661
N=73
N=8
N=1
N=1
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
1.0
0.8
0.6
0.4
0.2
0.0
2
4
6
8
10

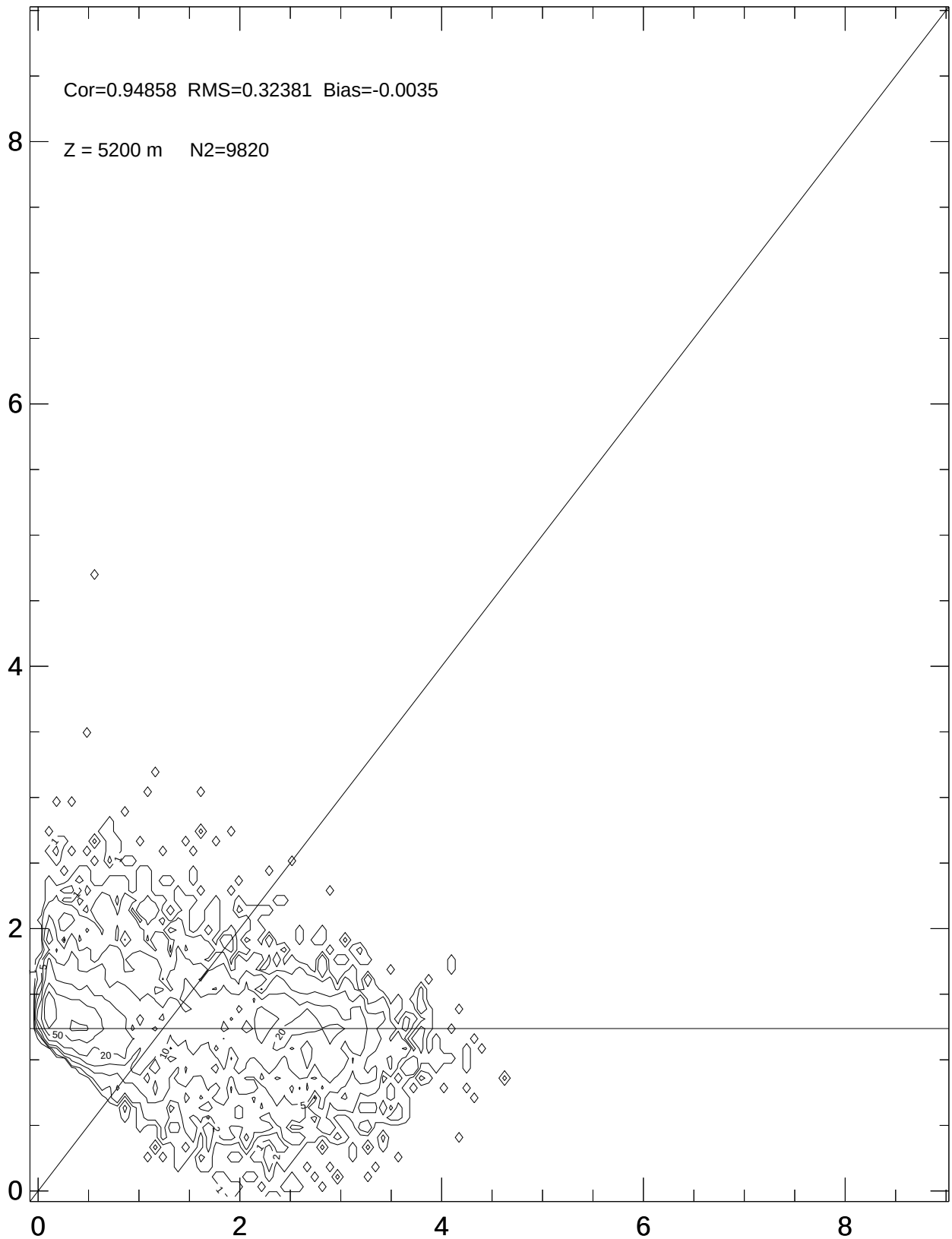

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8

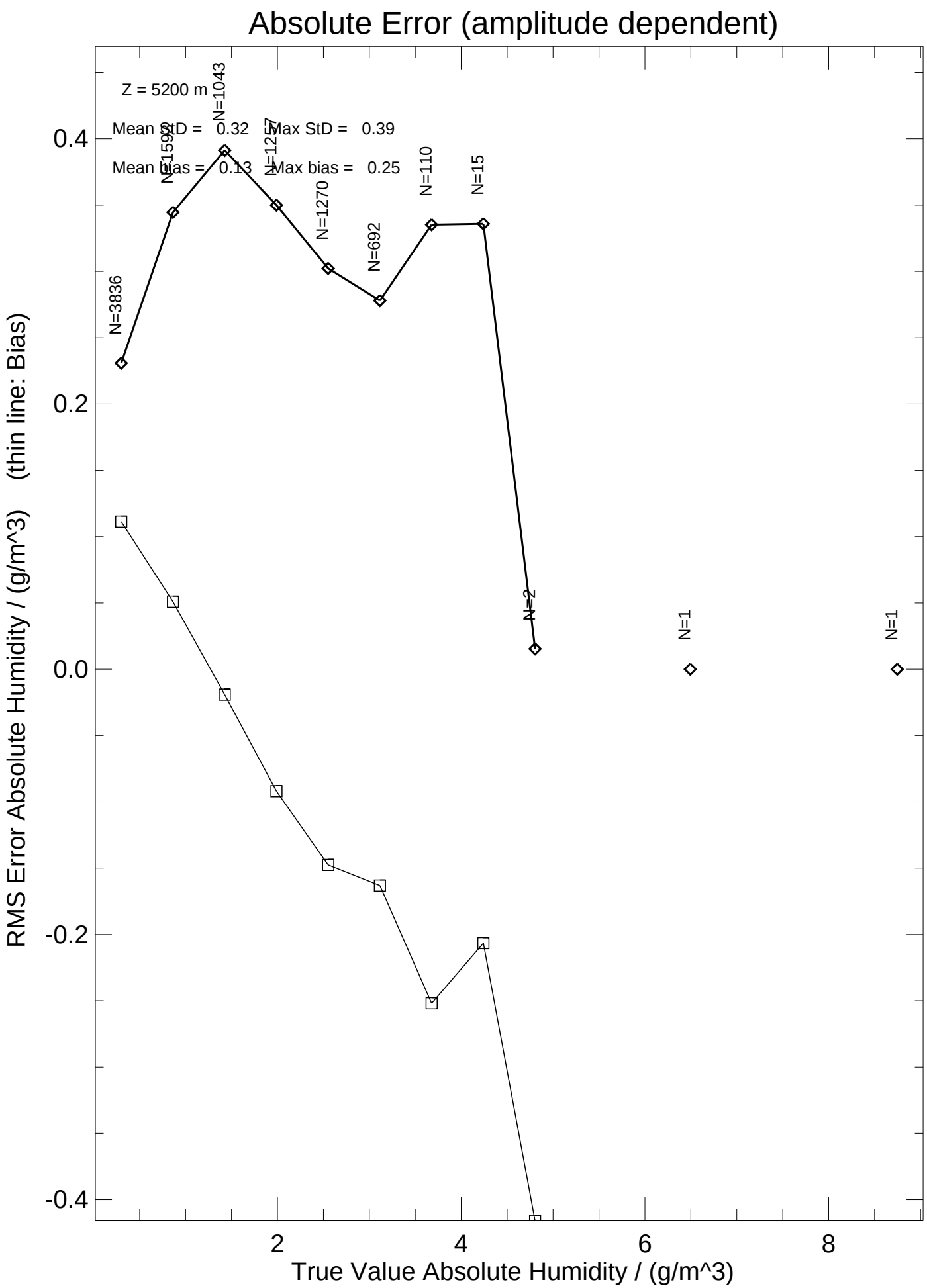

Cor=0.94814 RMS=0.35609 Bias=-0.0033
Z = 5000 m N2=9820
0
2
4
6
8
0
2
4
6
8

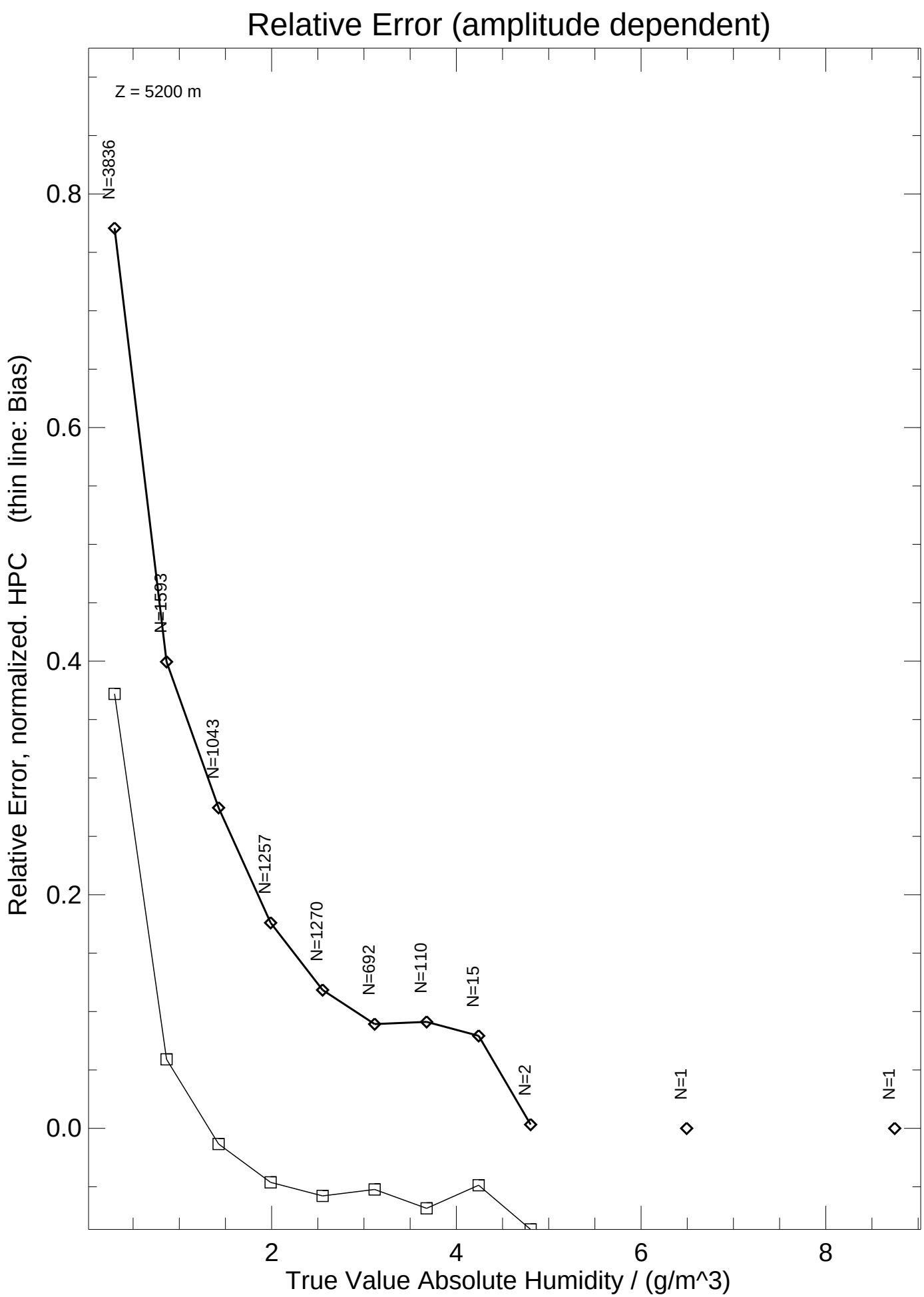

Absolute Error (amplitude dependent)
Z = 5000 m
Mean StD = 0.37 Max StD = 0.51
Mean bias = 0.15 Max bias = 0.34
N=3723
N=1552
N=1009
N=1191
N=1335
N=842
N=145
N=19
N=2
N=1
N=1
0.6
0.4
0.2
0.0
-0.2
-0.4
2
4
6
8
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

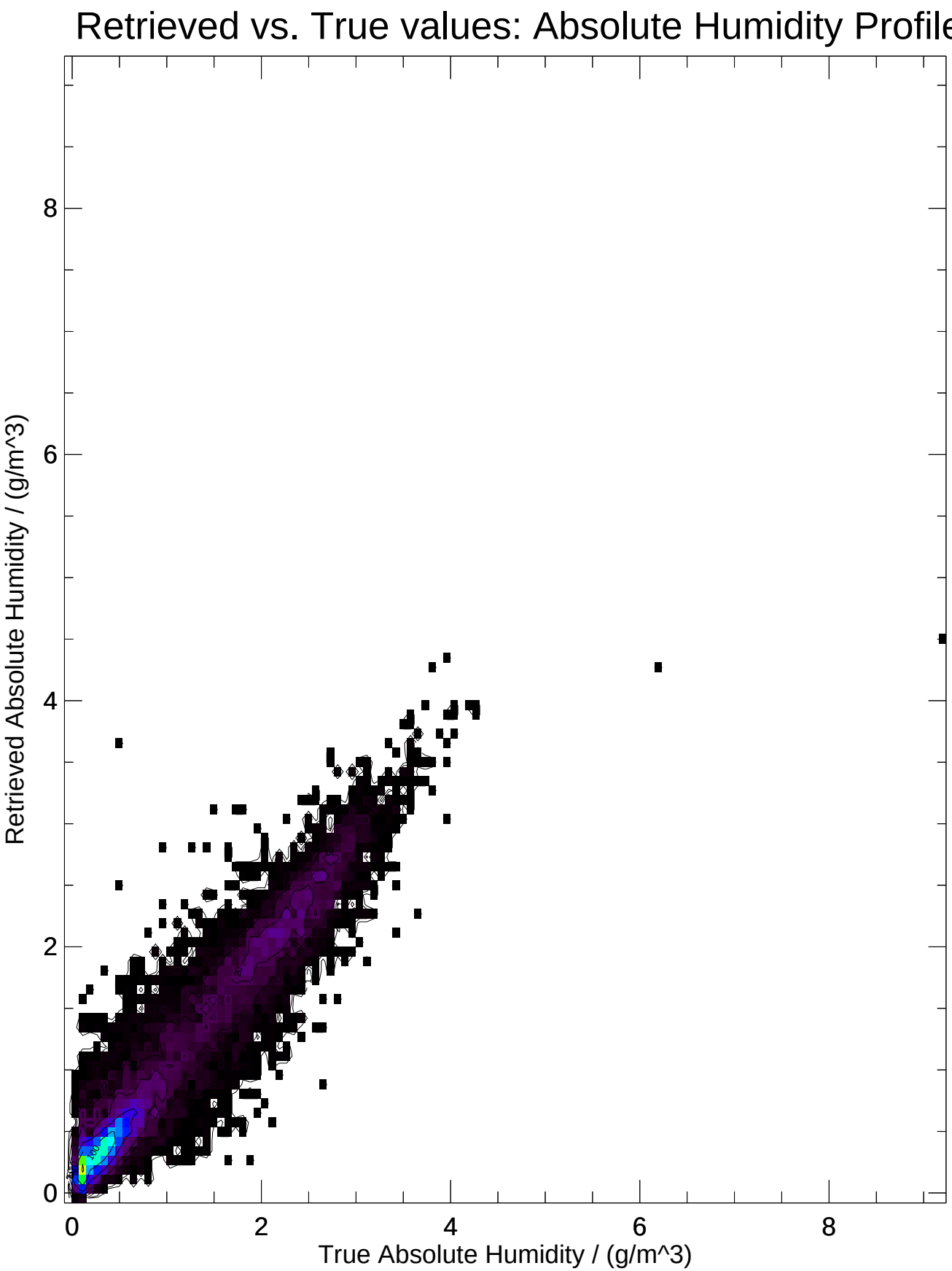

Relative Error (amplitude dependent)
Z = 5000 m
N=3723
N=1552
N=1009
N=1191
N=1335
N=842
N=145
N=19
N=2
N=1
N=1
0.8
0.6
0.4
0.2
0.0
2
4
6
8
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

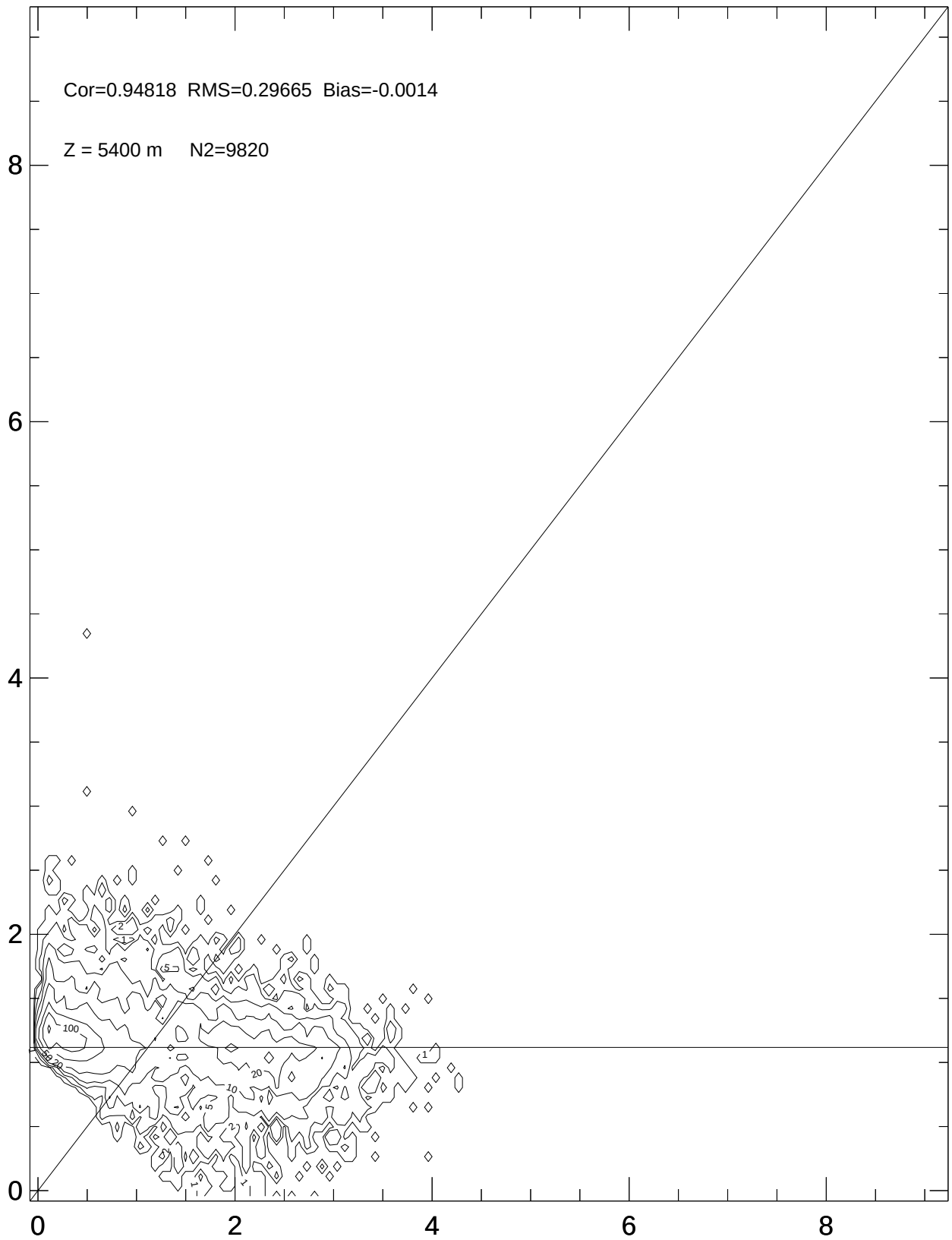

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8

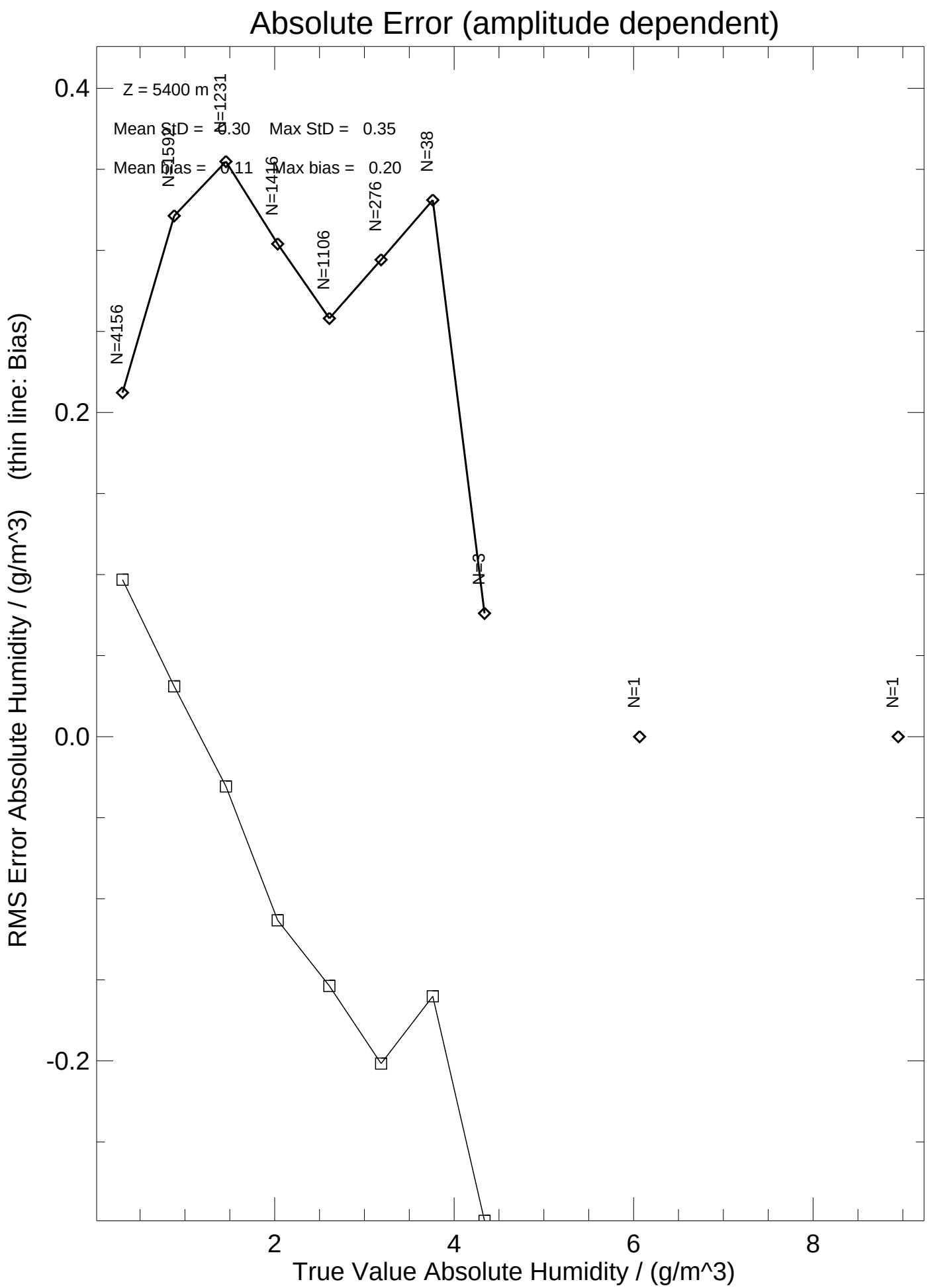

Cor=0.94858 RMS=0.32381 Bias=-0.0035
Z = 5200 m N2=9820
0
2
4
6
8
50
20
10
5
1

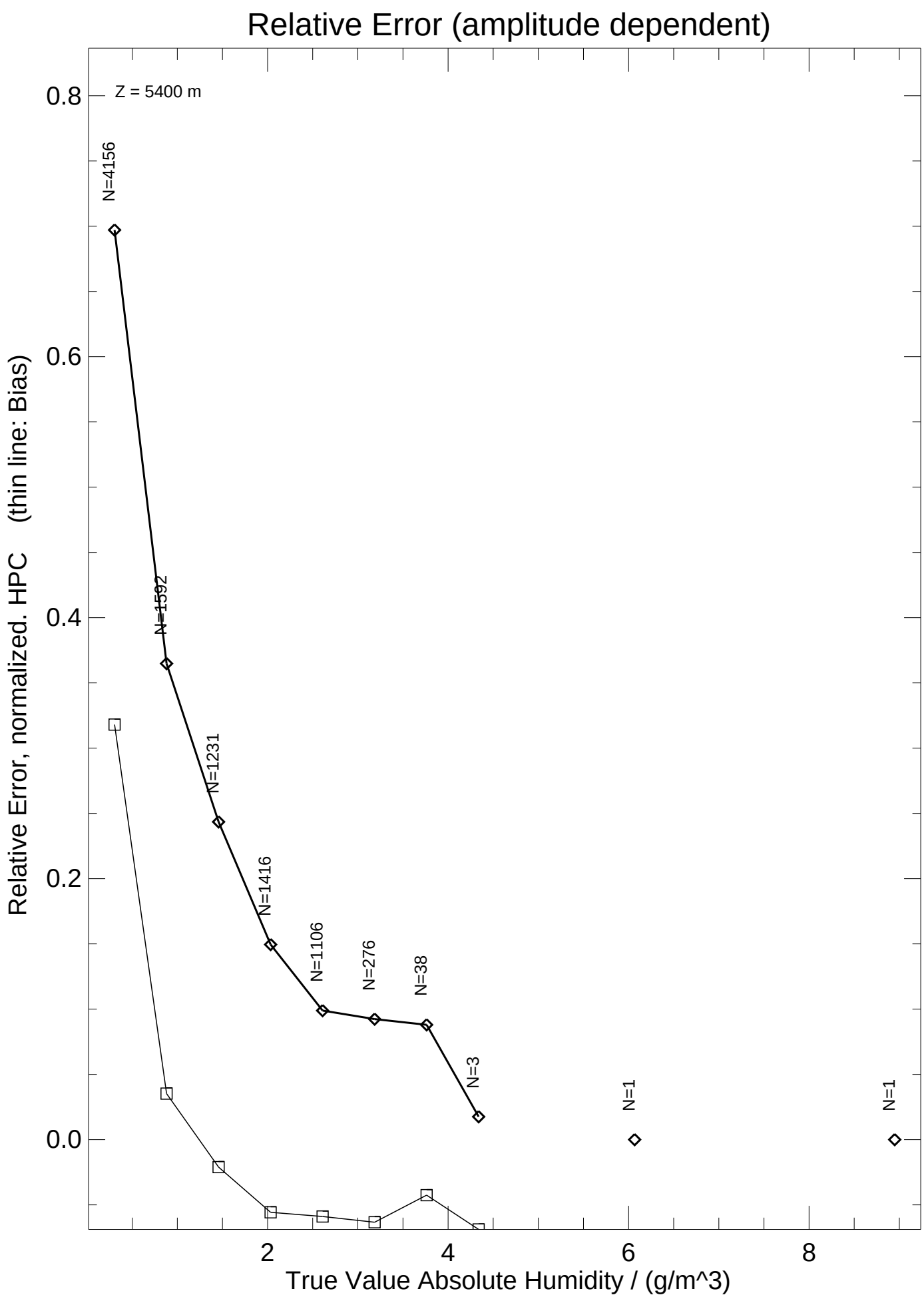

Absolute Error (amplitude dependent)
Z = 5200 m
Mean StD = 0.32 Max StD = 0.39
Mean bias = 0.13 Max bias = 0.25
N=3836
N=1599
N=1043
N=1257
N=1270
N=692
N=110
N=15
N=2
N=1
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.4
0.2
0.0
-0.2
-0.4
2
4
6
8

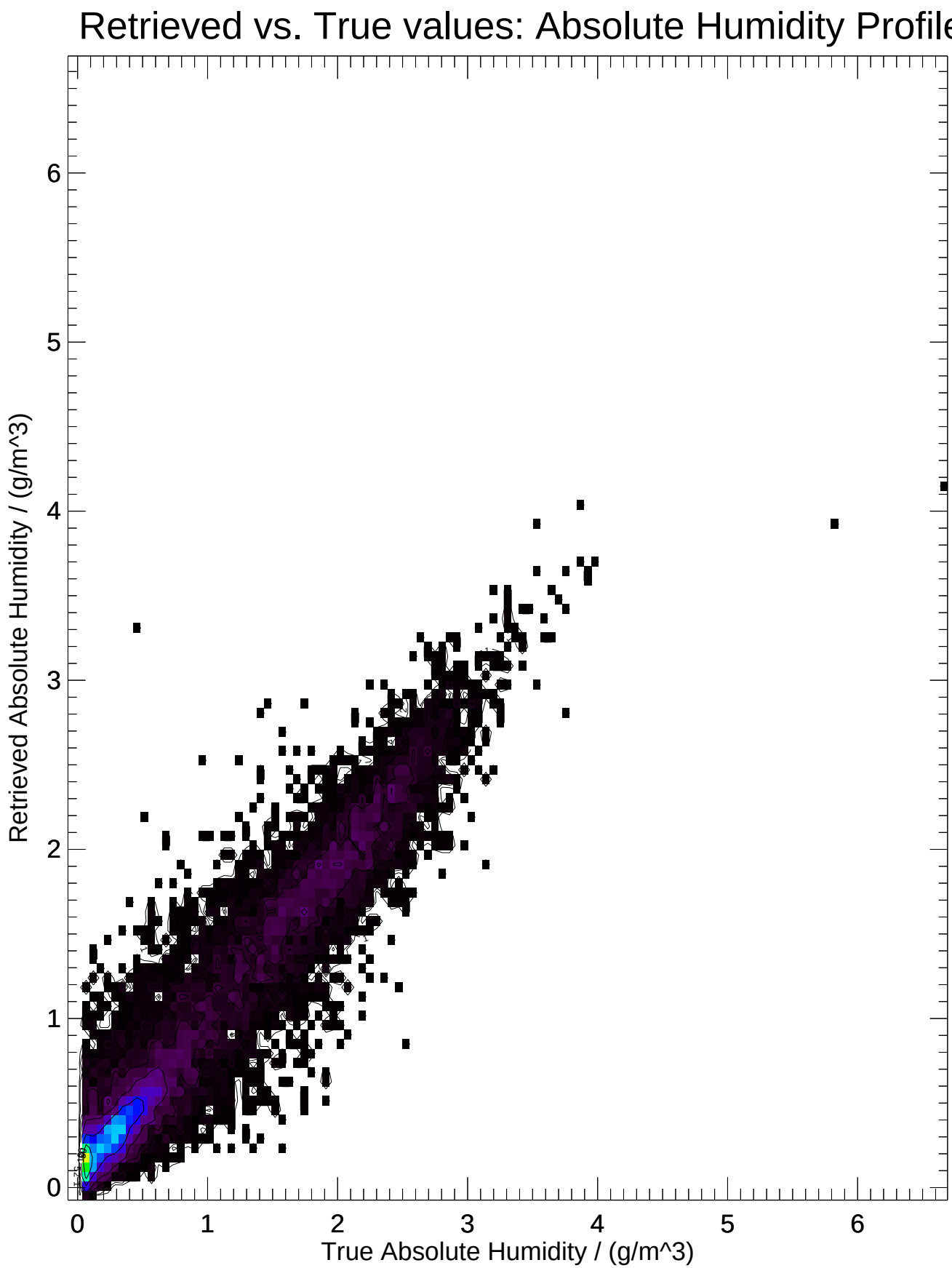

Relative Error (amplitude dependent)
Z = 5200 m
N=3836
N=1593
N=1043
N=1257
N=1270
N=692
N=110
N=15
N=2
N=1
N=1
0.8
0.6
0.4
0.2
0.0
2
4
6
8
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

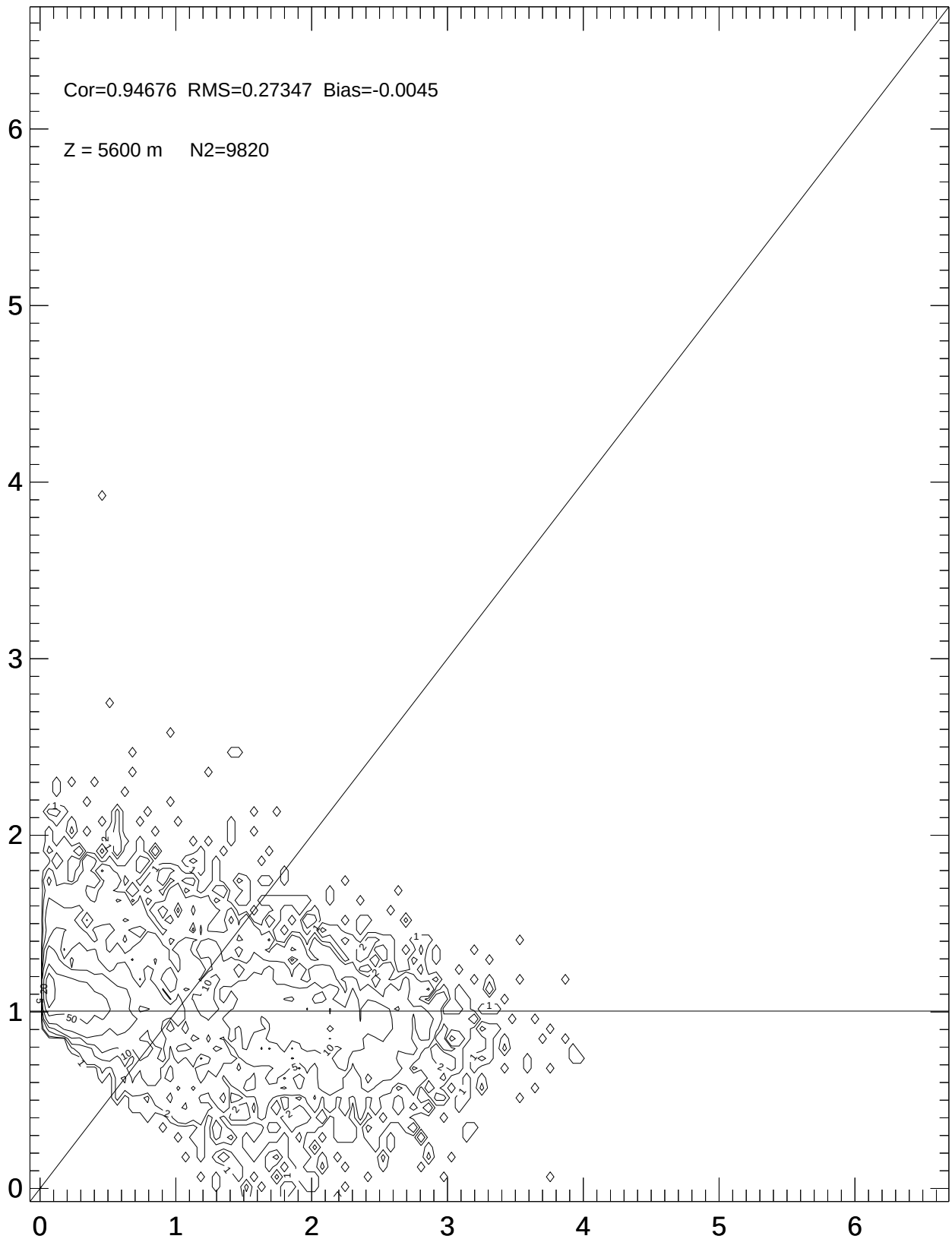

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8

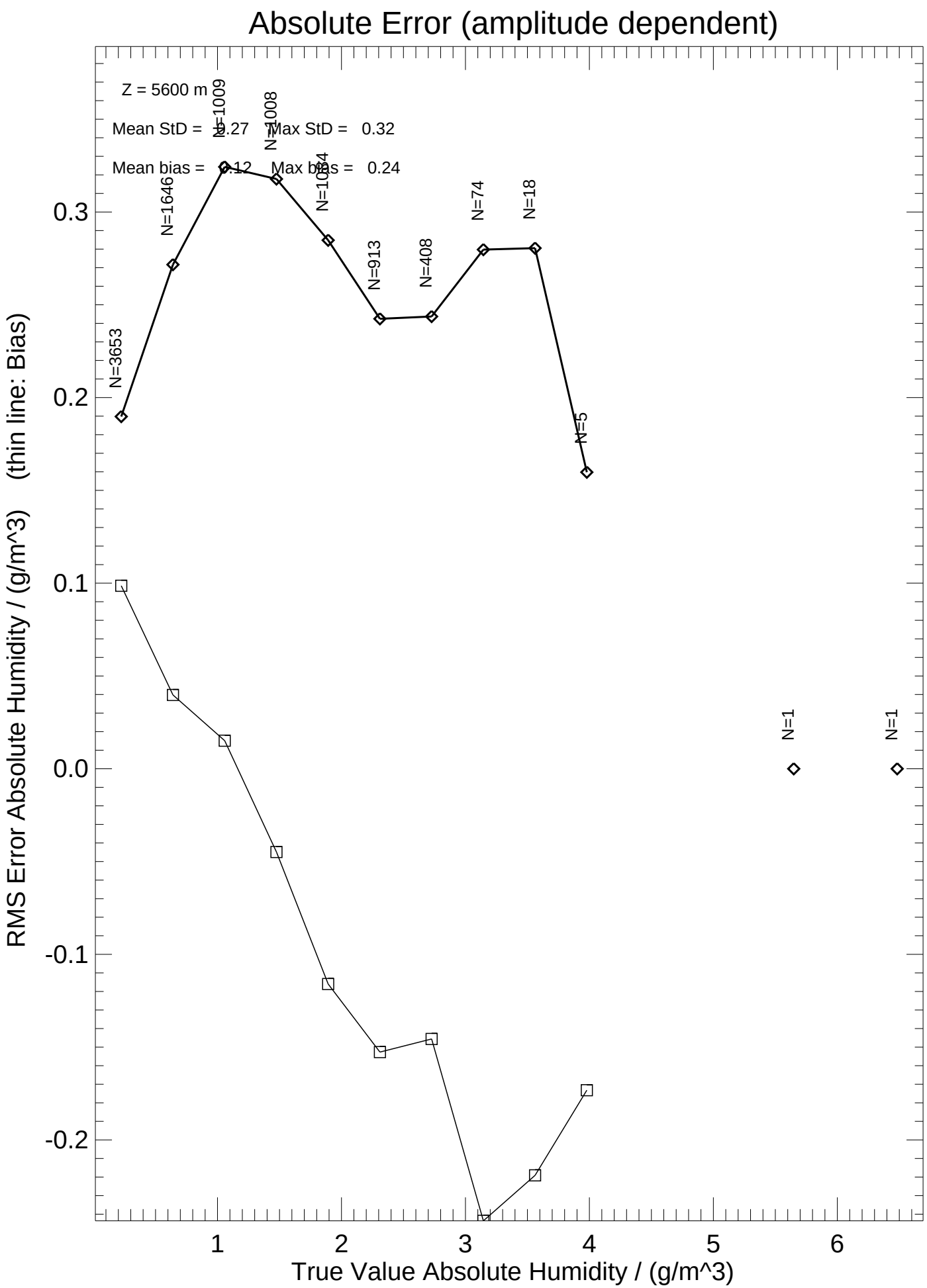

Cor=0.94818 RMS=0.29665 Bias=-0.0014
Z = 5400 m N2=9820
0
2
4
6
8
0
2
4
6
8

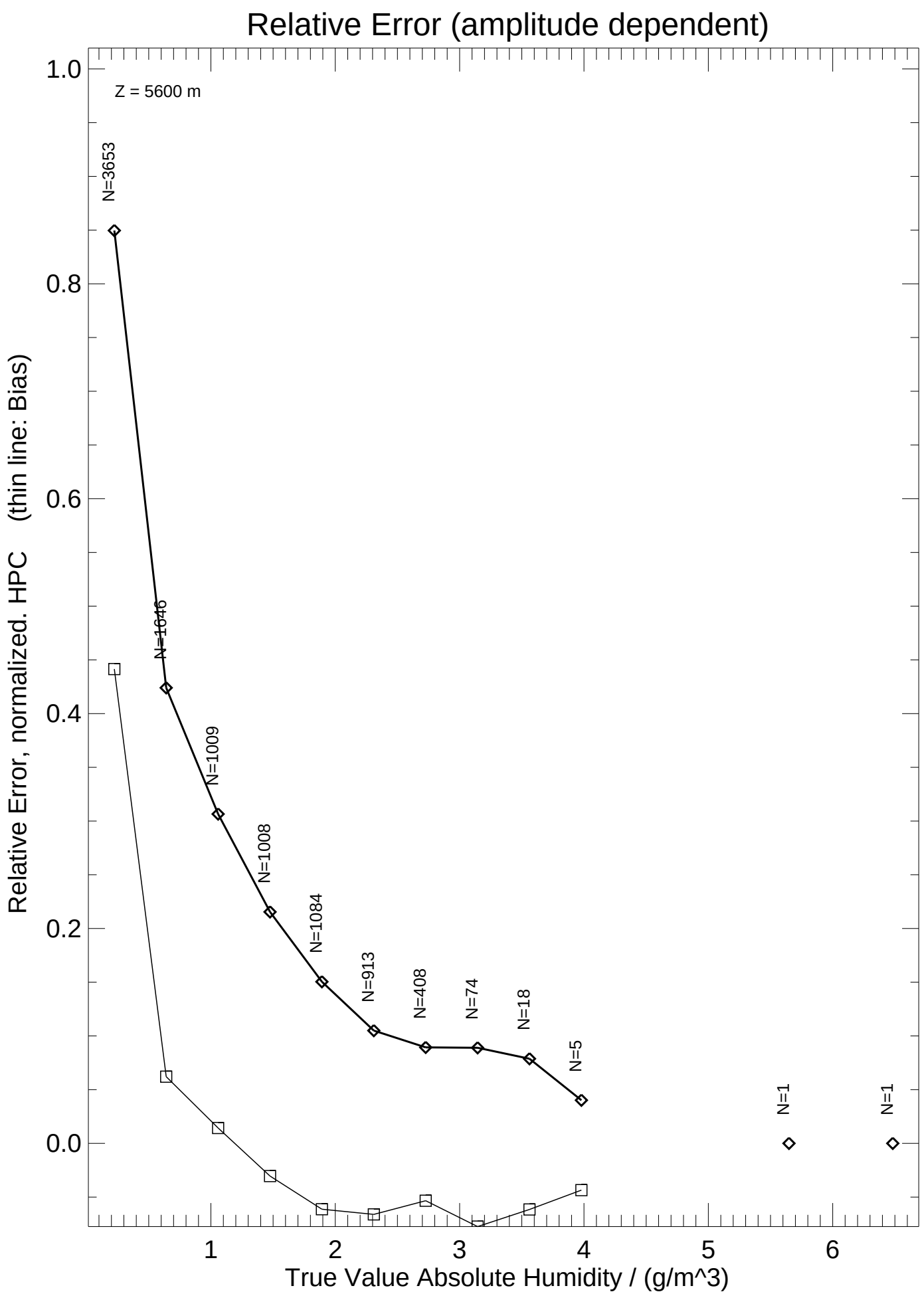

Absolute Error (amplitude dependent)
Z = 5400 m
Mean StD = 0.30 Max StD = 0.35
Mean bias = 0.11 Max bias = 0.20
N=4156
N=1592
N=1231
N=1416
N=1106
N=276
N=38
N=3
N=1
N=1
0.4
0.2
0.0
-0.2
2
4
6
8
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

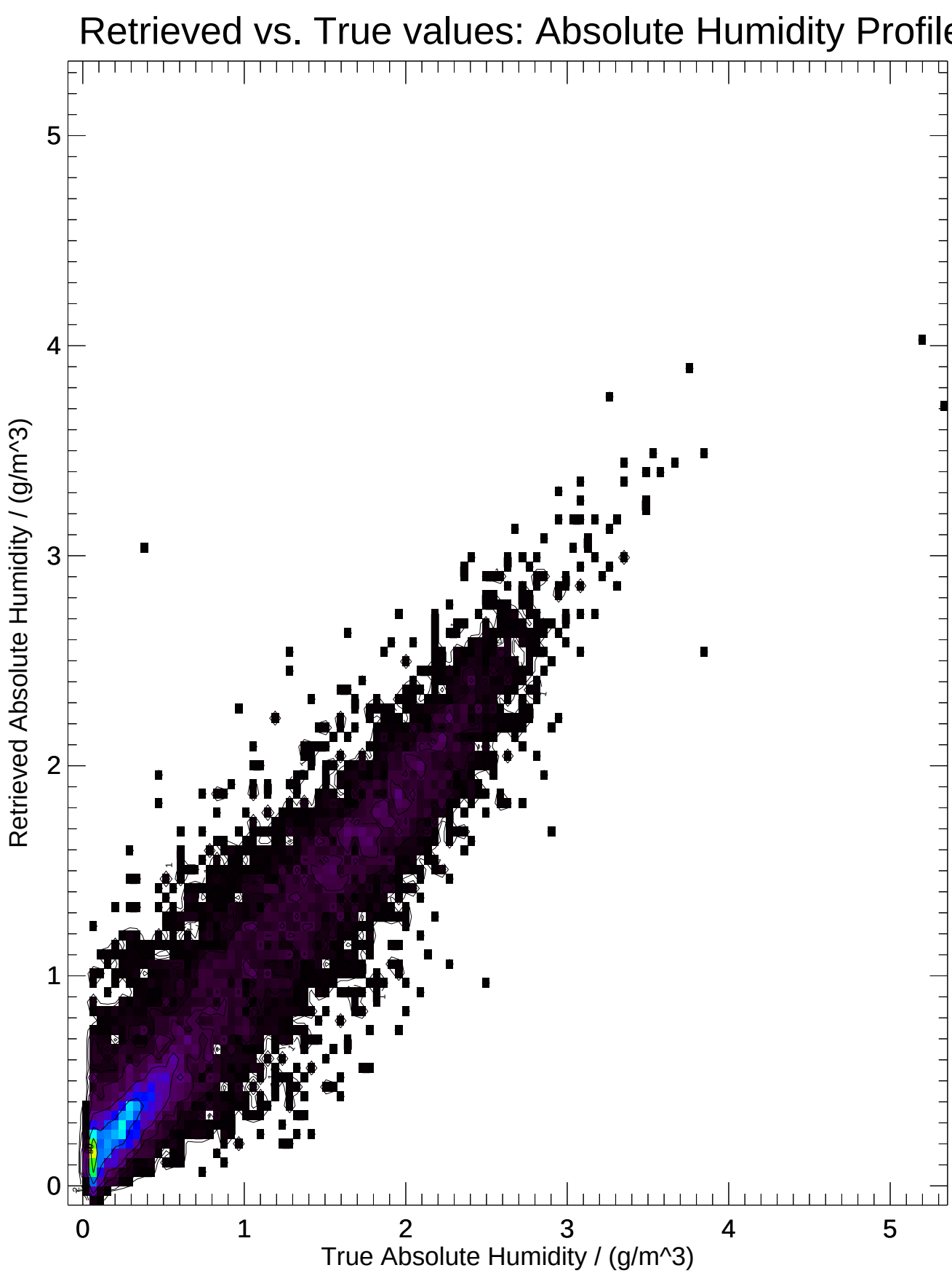

Relative Error (amplitude dependent)
Z = 5400 m
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.0
0.2
0.4
0.6
0.8
2
4
6
8
N=4156
N=1592
N=1231
N=1416
N=1106
N=276
N=38
N=3
N=1
N=1

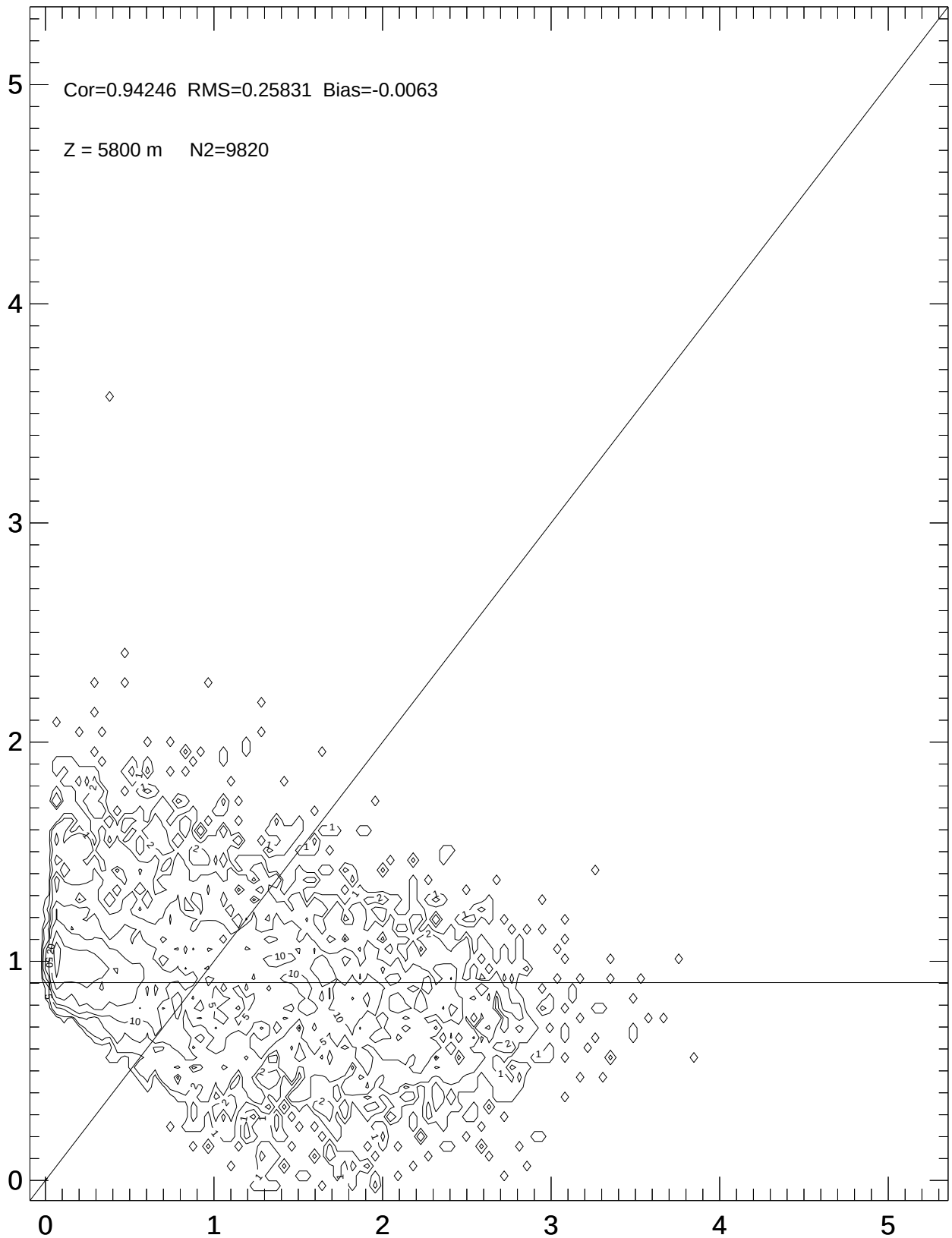

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
1
2
3
4
5
6

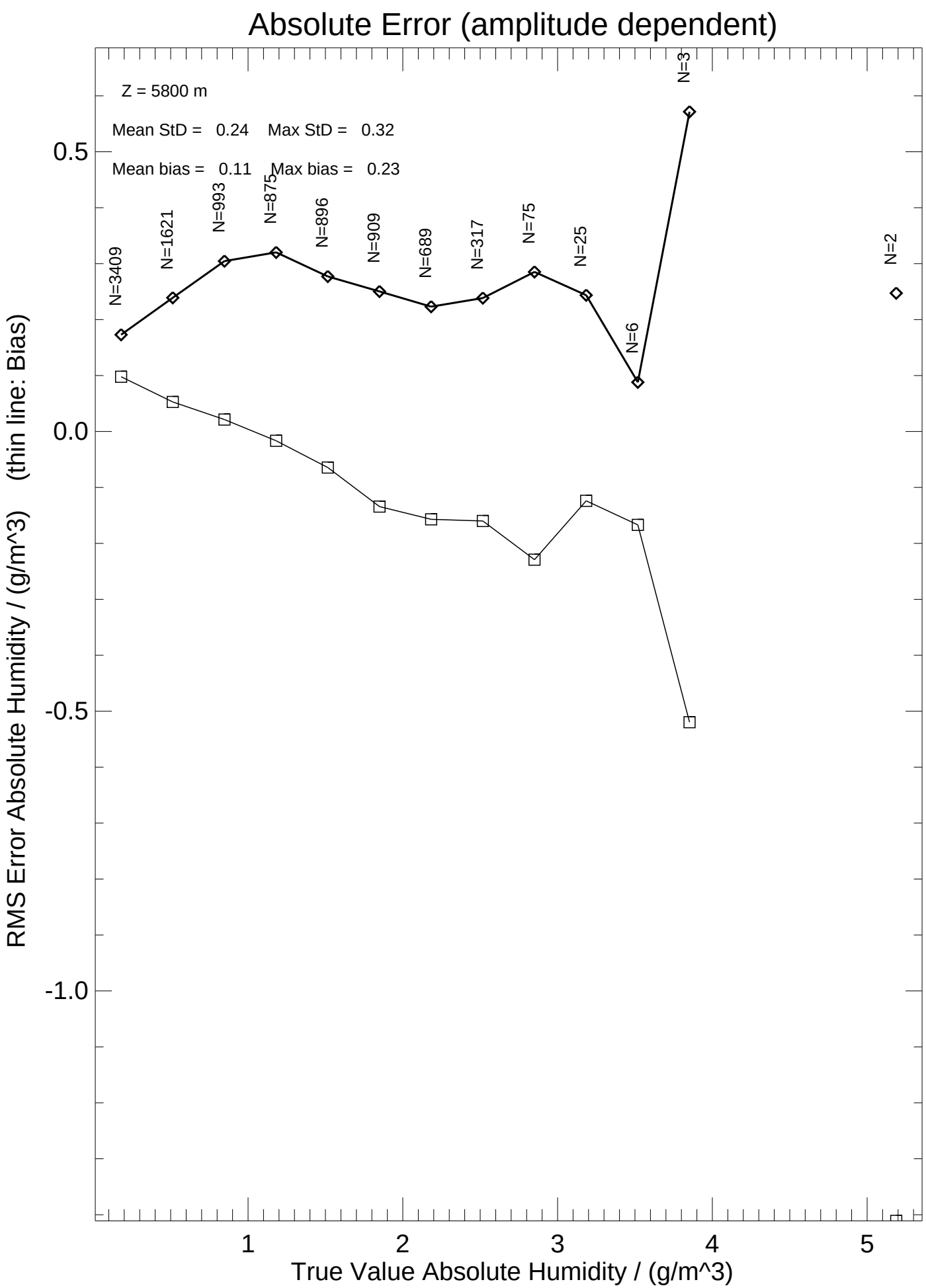

Cor=0.94676 RMS=0.27347 Bias=-0.0045
Z = 5600 m N2=9820
0
1
2
3
4
5
6

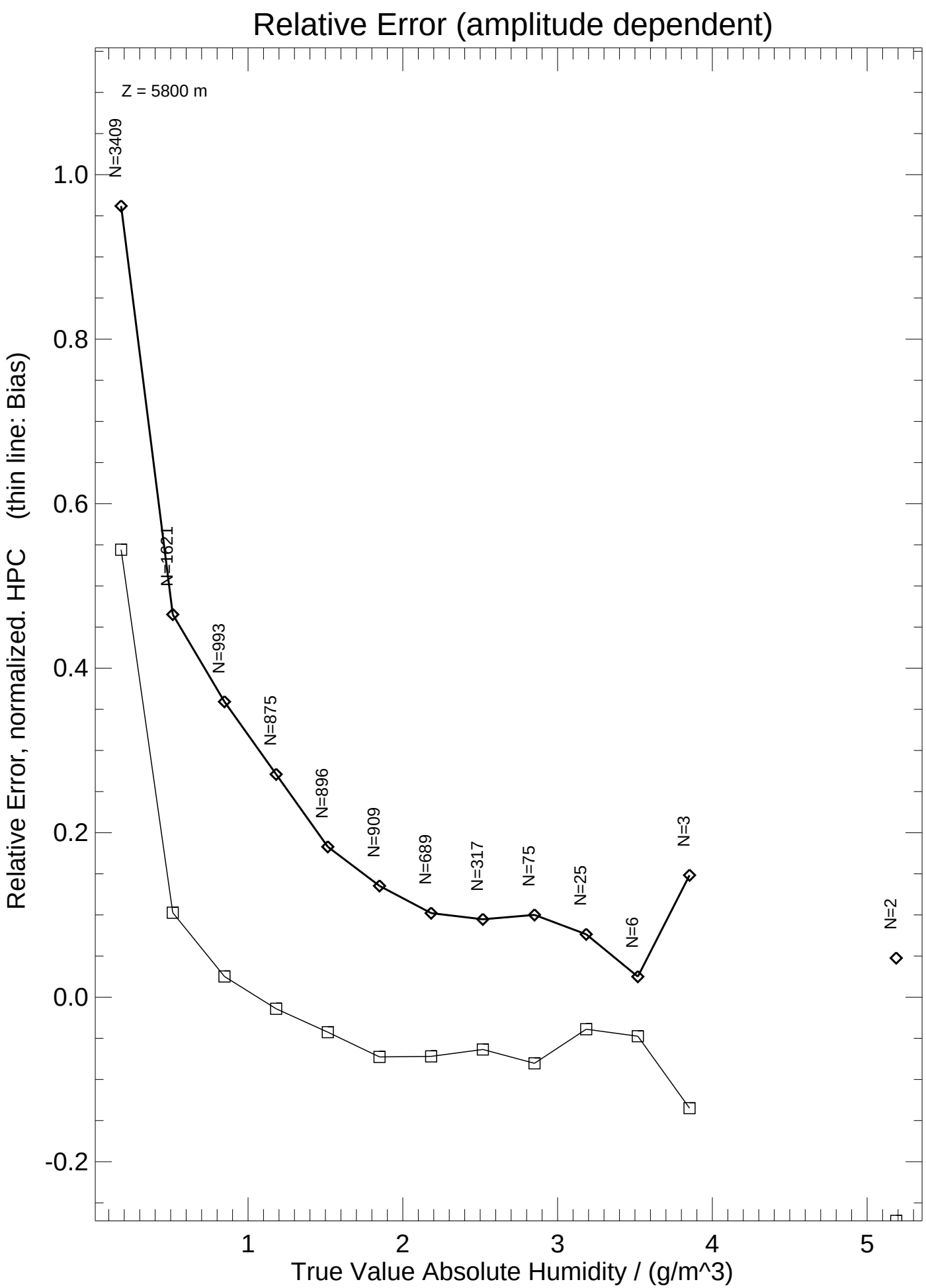

Absolute Error (amplitude dependent)
Z = 5600 m
Mean StD = 0.27 Max StD = 0.32
Mean bias = 0.12 Max bias = 0.24
N=3653
N=1646
N=1009
N=1008
N=1064
N=913
N=408
N=74
N=18
N=5
N=1
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.3
0.2
0.1
0.0
-0.1
-0.2
1
2
3
4
5
6

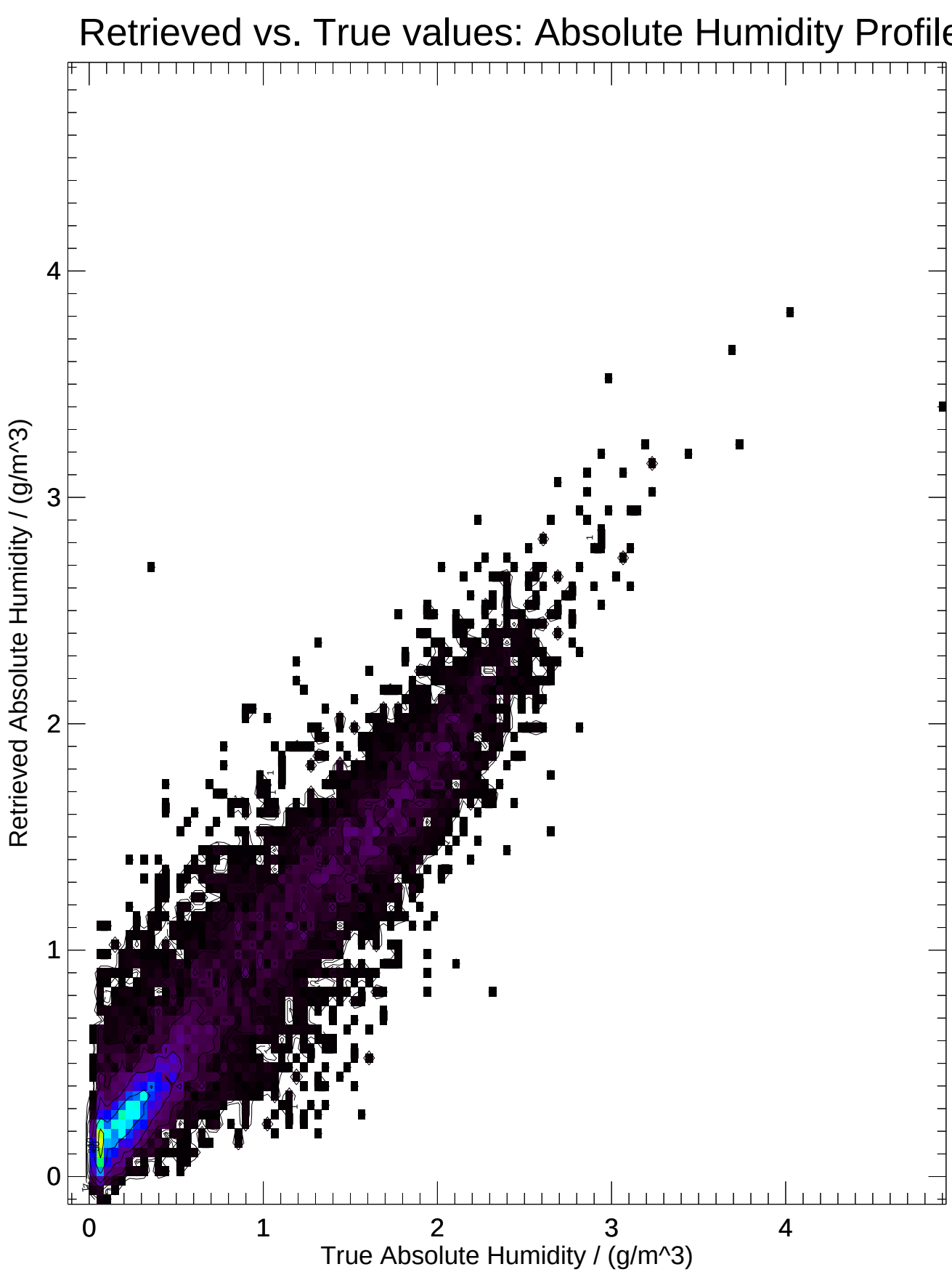

Relative Error (amplitude dependent)
Z = 5600 m
N=3653
N=1046
N=1009
N=1008
N=1084
N=913
N=408
N=74
N=18
N=5
N=1
N=1
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
6

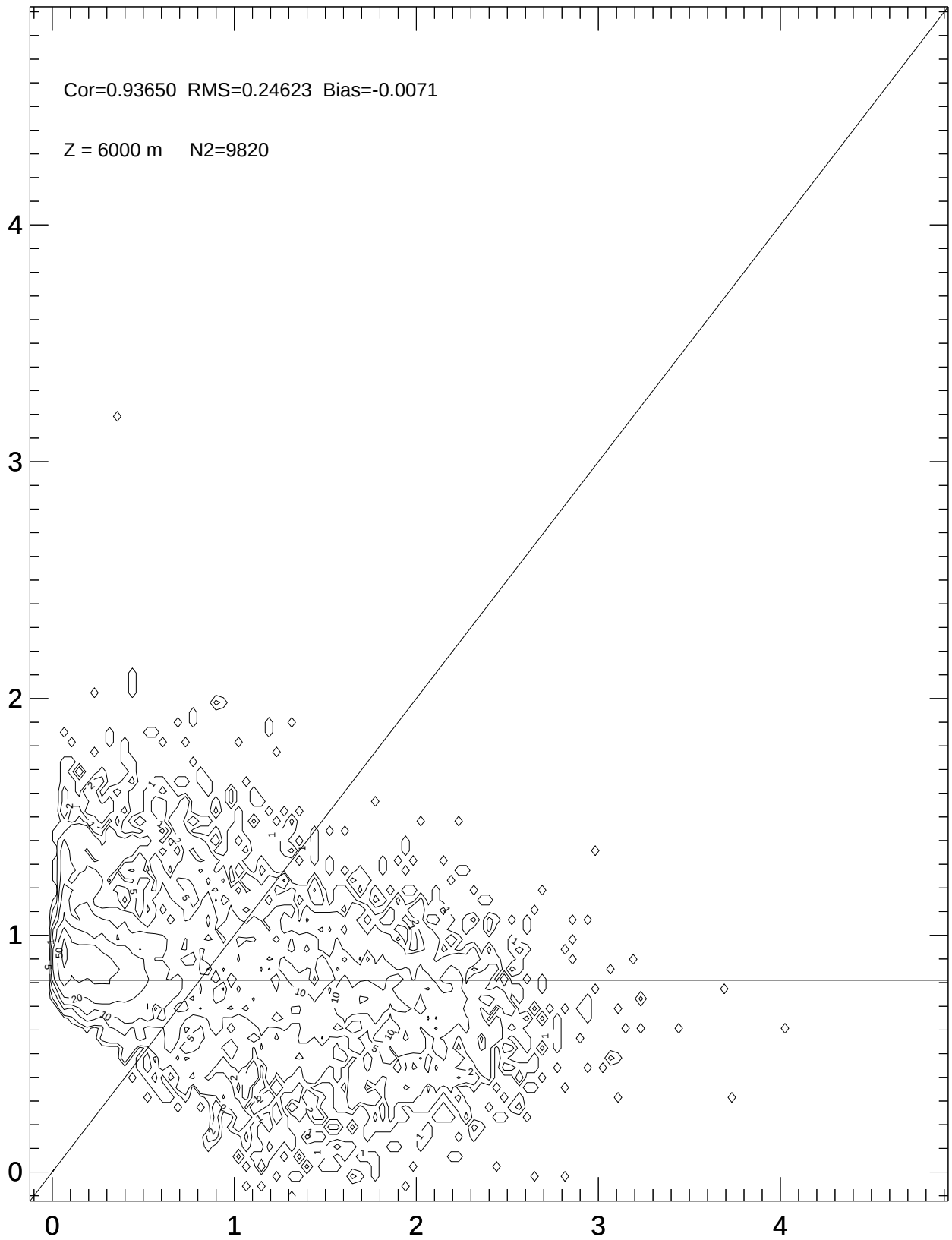

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
1
2
3
4
5

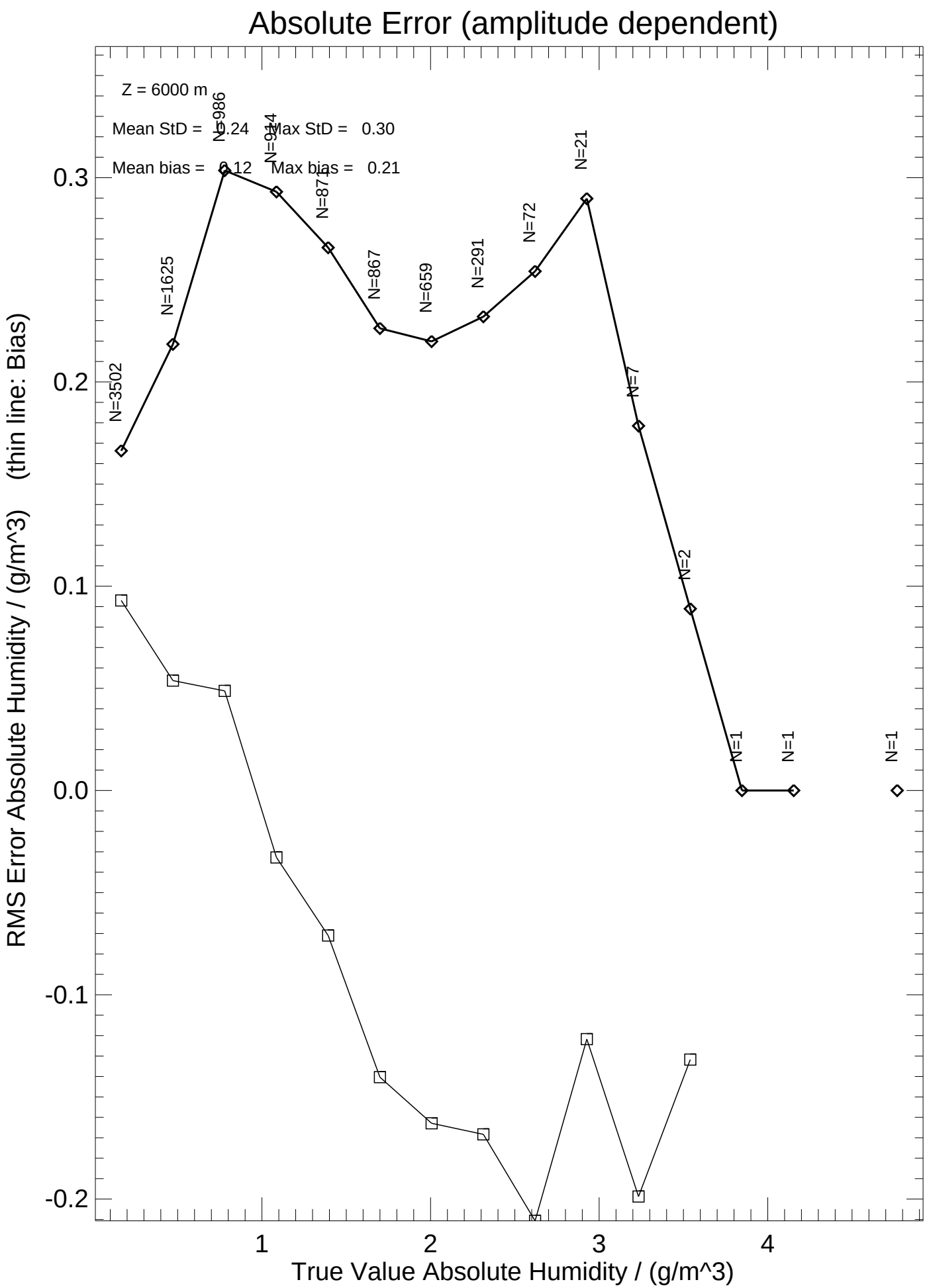

Cor=0.94246 RMS=0.25831 Bias=-0.0063
Z = 5800 m N2=9820
0
1
2
3
4
5

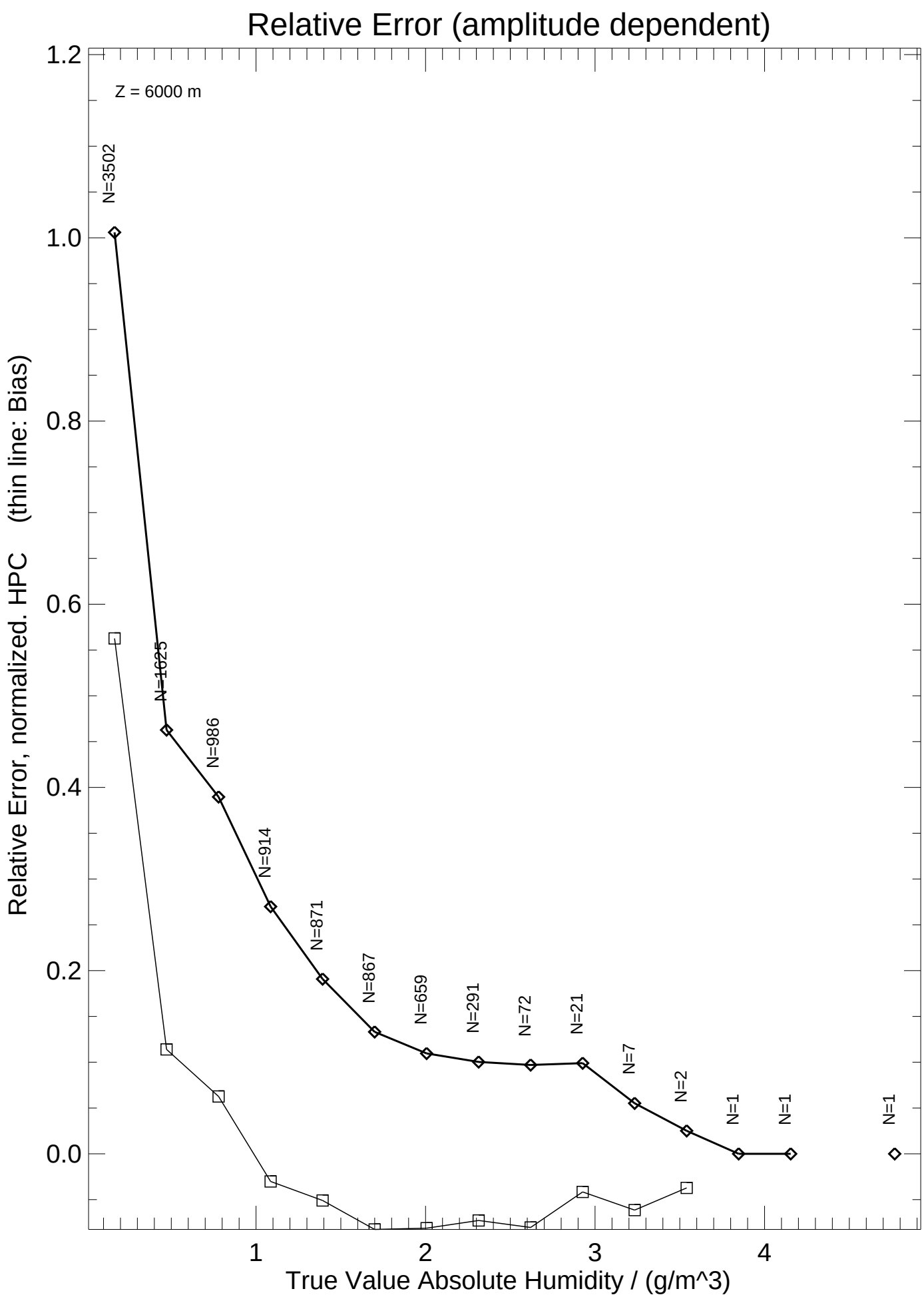

Absolute Error (amplitude dependent)
Z = 5800 m
Mean StD = 0.24 Max StD = 0.32
Mean bias = 0.11 Max bias = 0.23
N=3409
N=1621
N=993
N=875
N=896
N=909
N=689
N=317
N=75
N=25
N=6
N=3
N=2
0.5
0.0
-0.5
-1.0
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
1
2
3
4
5
True Value Absolute Humidity / (g/m^3)

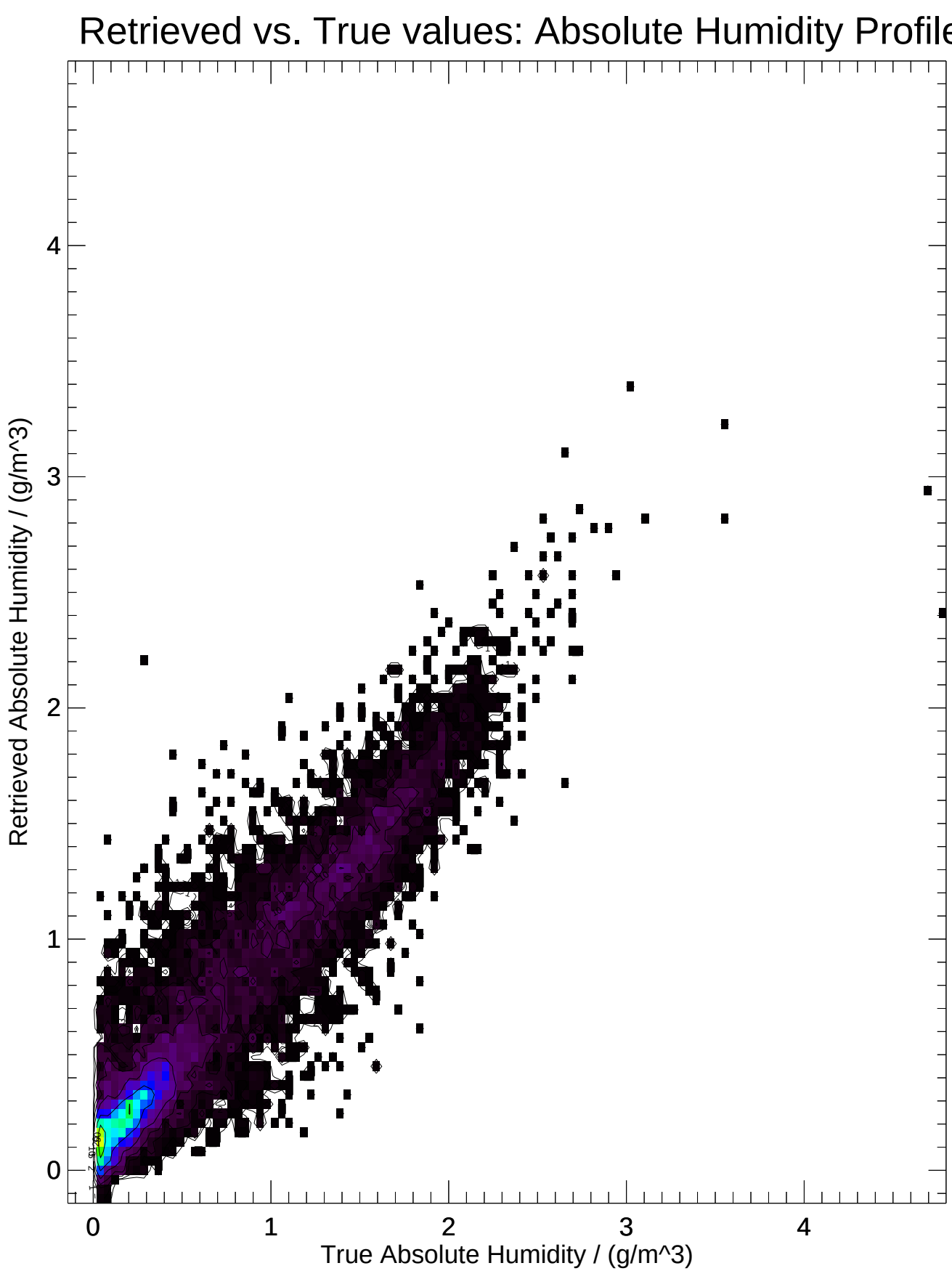

Relative Error (amplitude dependent)
Z = 5800 m
N=3409
N=1621
N=993
N=875
N=896
N=909
N=689
N=317
N=75
N=25
N=6
N=3
N=2
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
Relative Error, normalized. HPC (thin line: Bias)
1
2
3
4
5
True Value Absolute Humidity / (g/m^3)

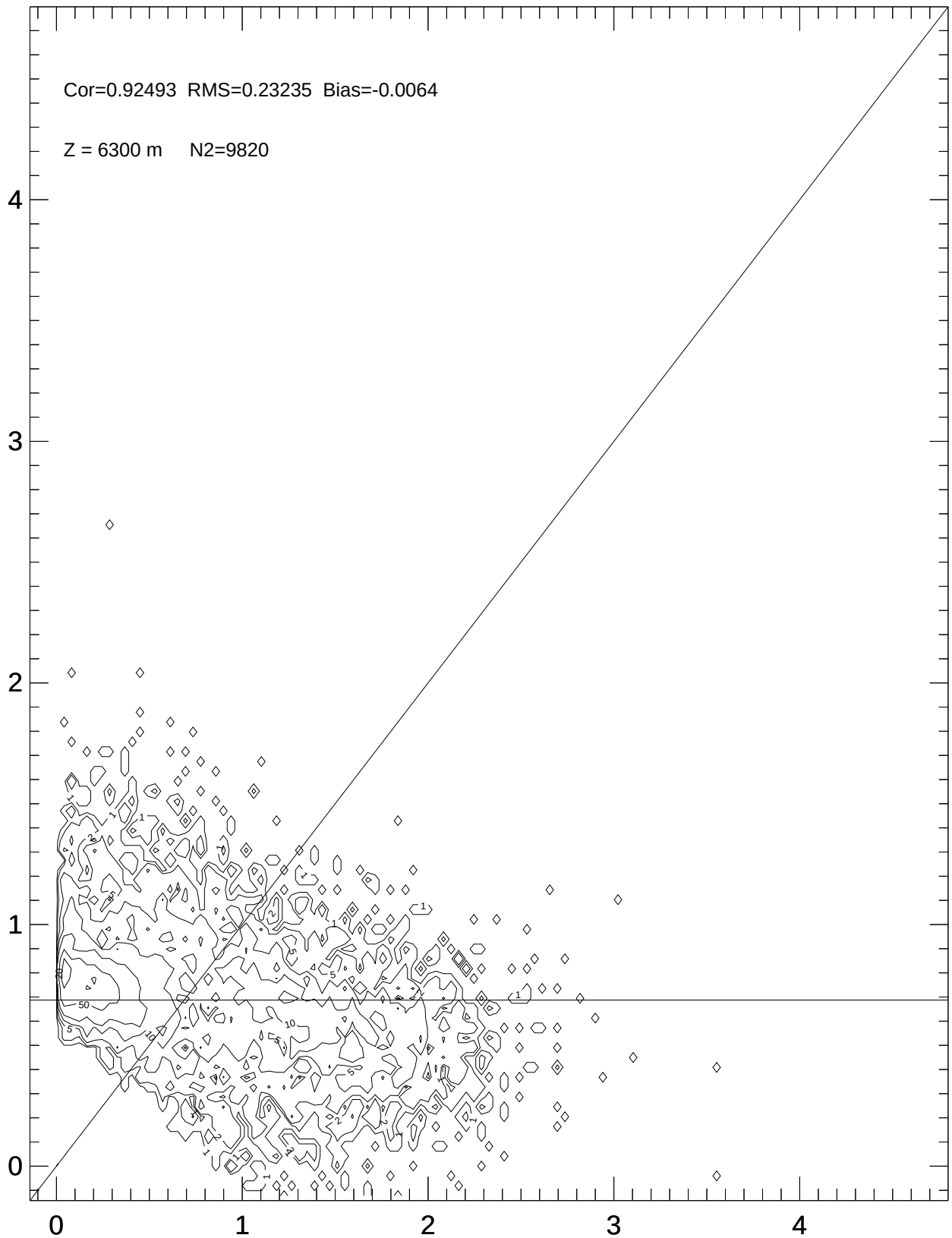

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
1
2
3
4

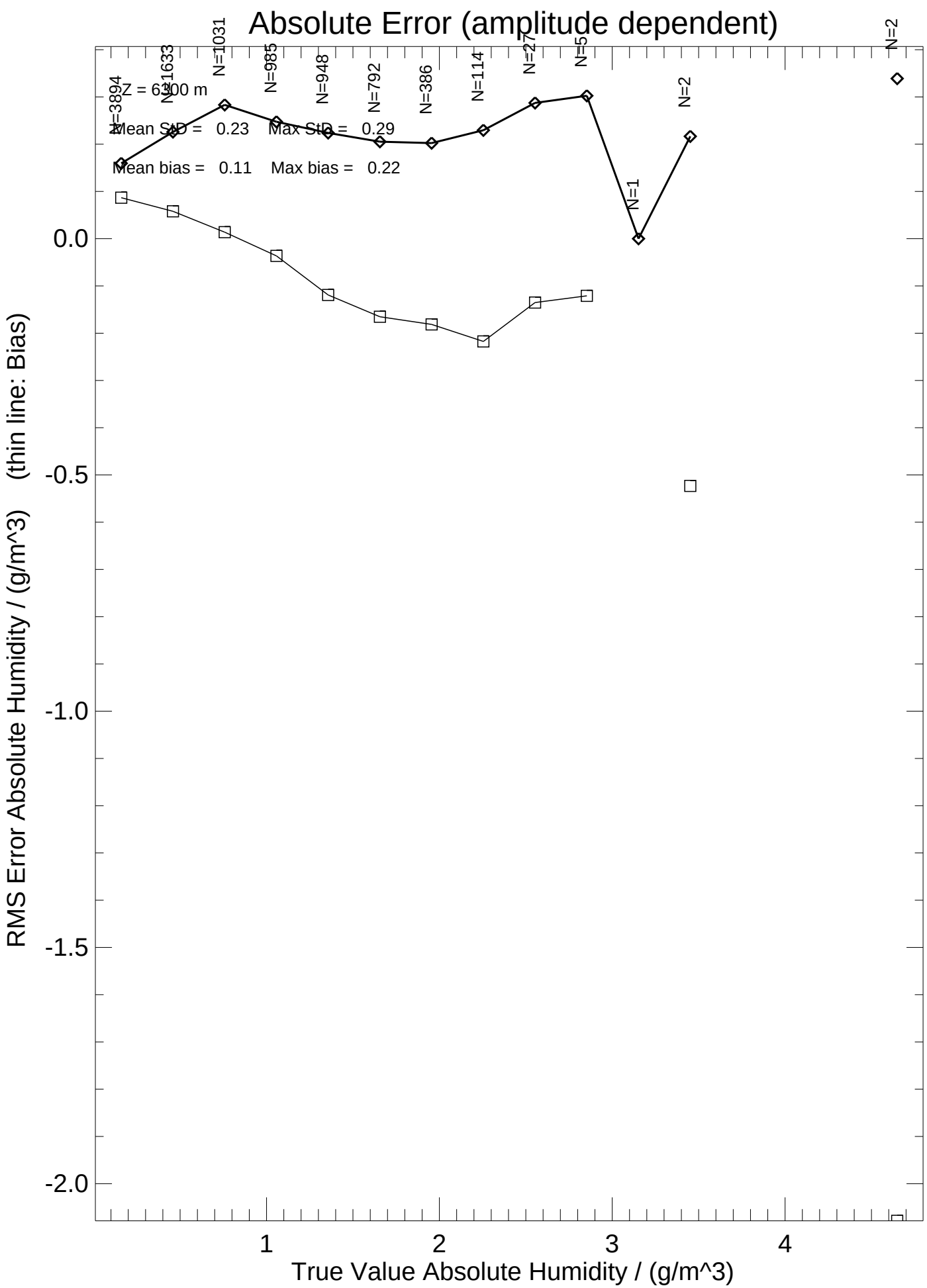

Cor=0.93650 RMS=0.24623 Bias=-0.0071
Z = 6000 m N2=9820
0
1
2
3
4
0
1
2
3
4

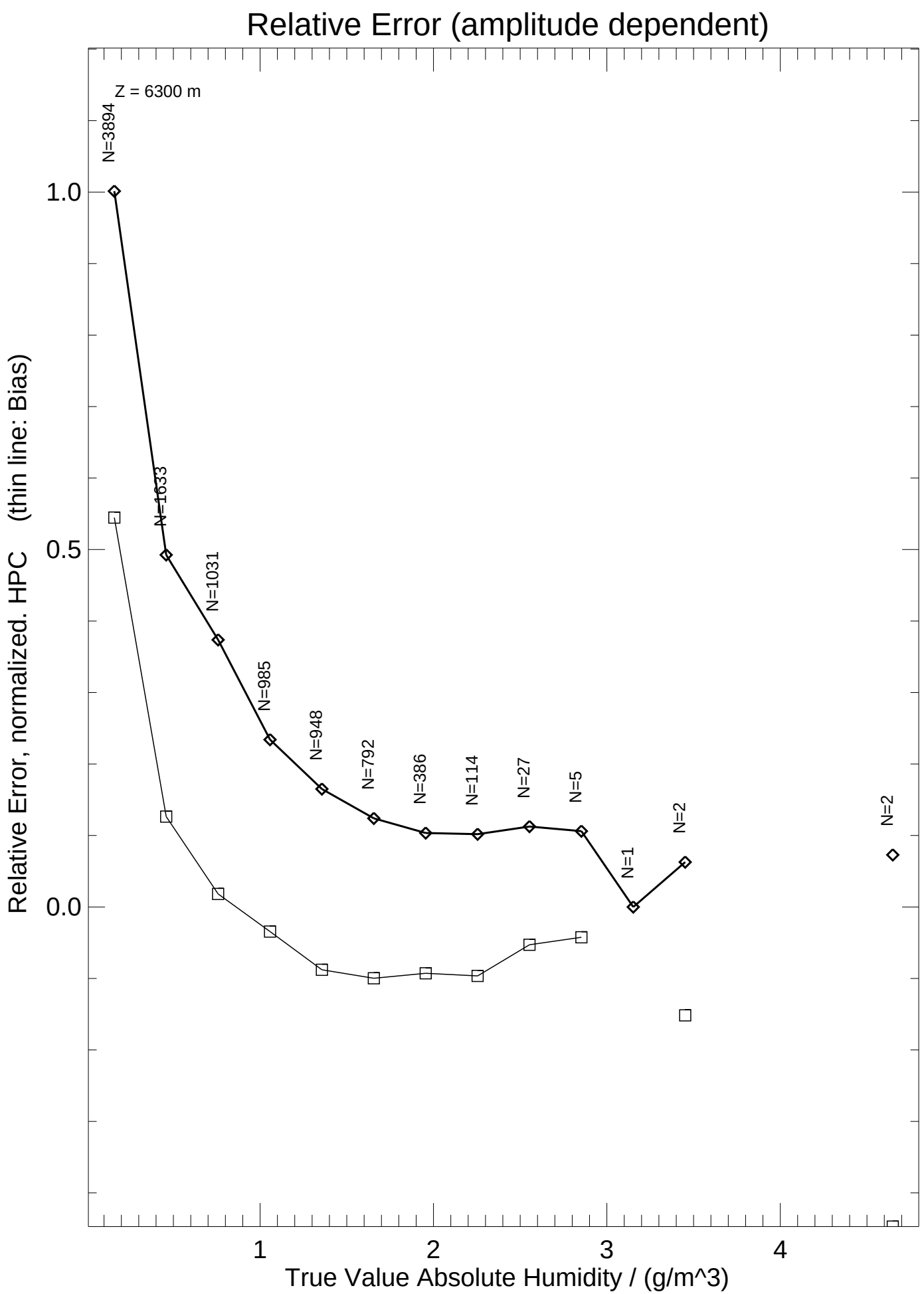

Absolute Error (amplitude dependent)
Z = 6000 m
Mean StD = 0.24 Max StD = 0.30
Mean bias = 0.12 Max bias = 0.21
N=3502
N=1625
N=986
N=914
N=871
N=867
N=659
N=291
N=72
N=21
N=7
N=2
N=1
N=1
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.3
0.2
0.1
0.0
-0.1
-0.2
1
2
3
4

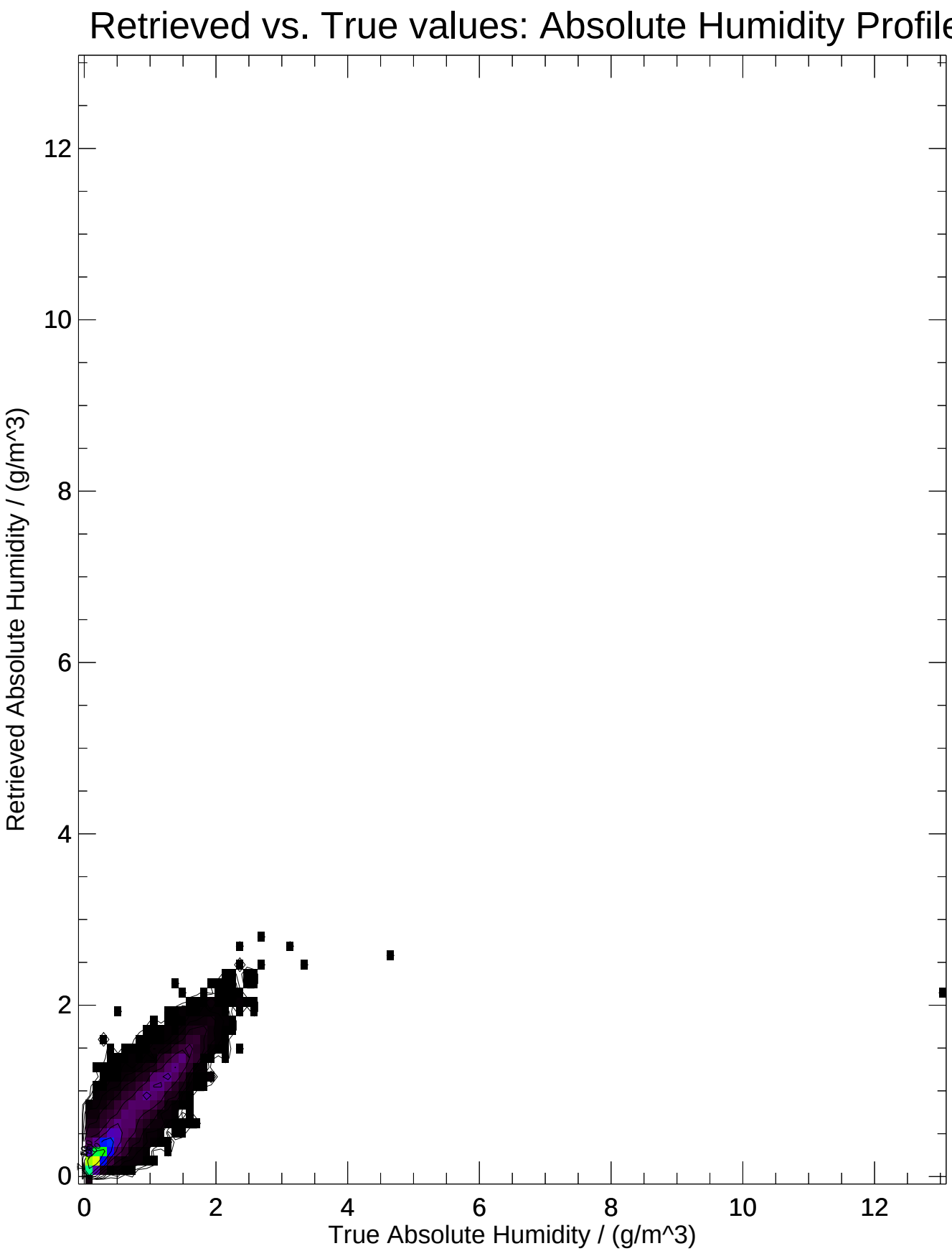

Relative Error (amplitude dependent)
Z = 6000 m
N=3502
N=1625
N=986
N=914
N=871
N=867
N=659
N=291
N=72
N=21
N=7
N=2
N=1
N=1
N=1
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

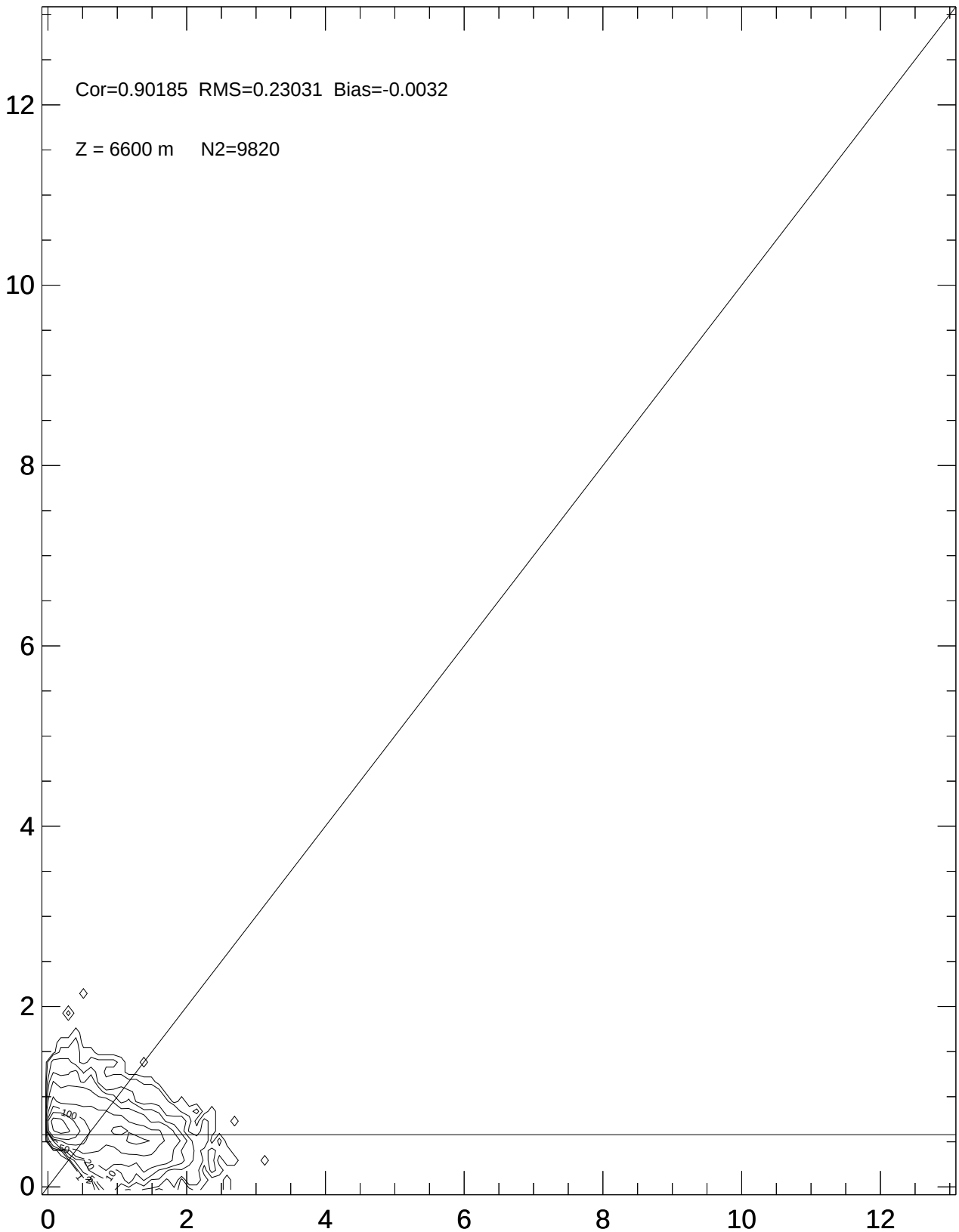

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
1
2
3
4

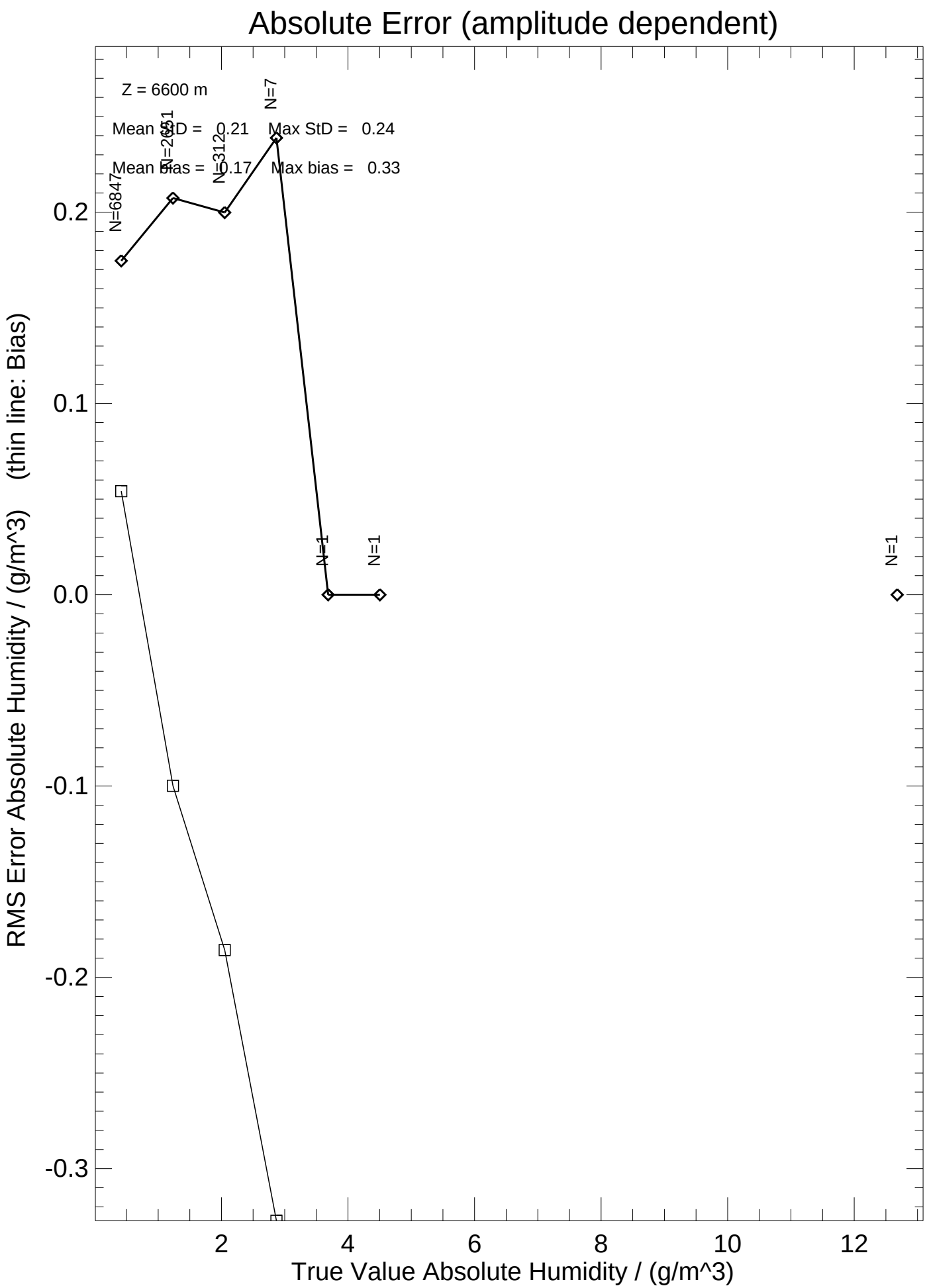

Cor=0.92493 RMS=0.23235 Bias=-0.0064
Z = 6300 m N2=9820
0
1
2
3
4
50

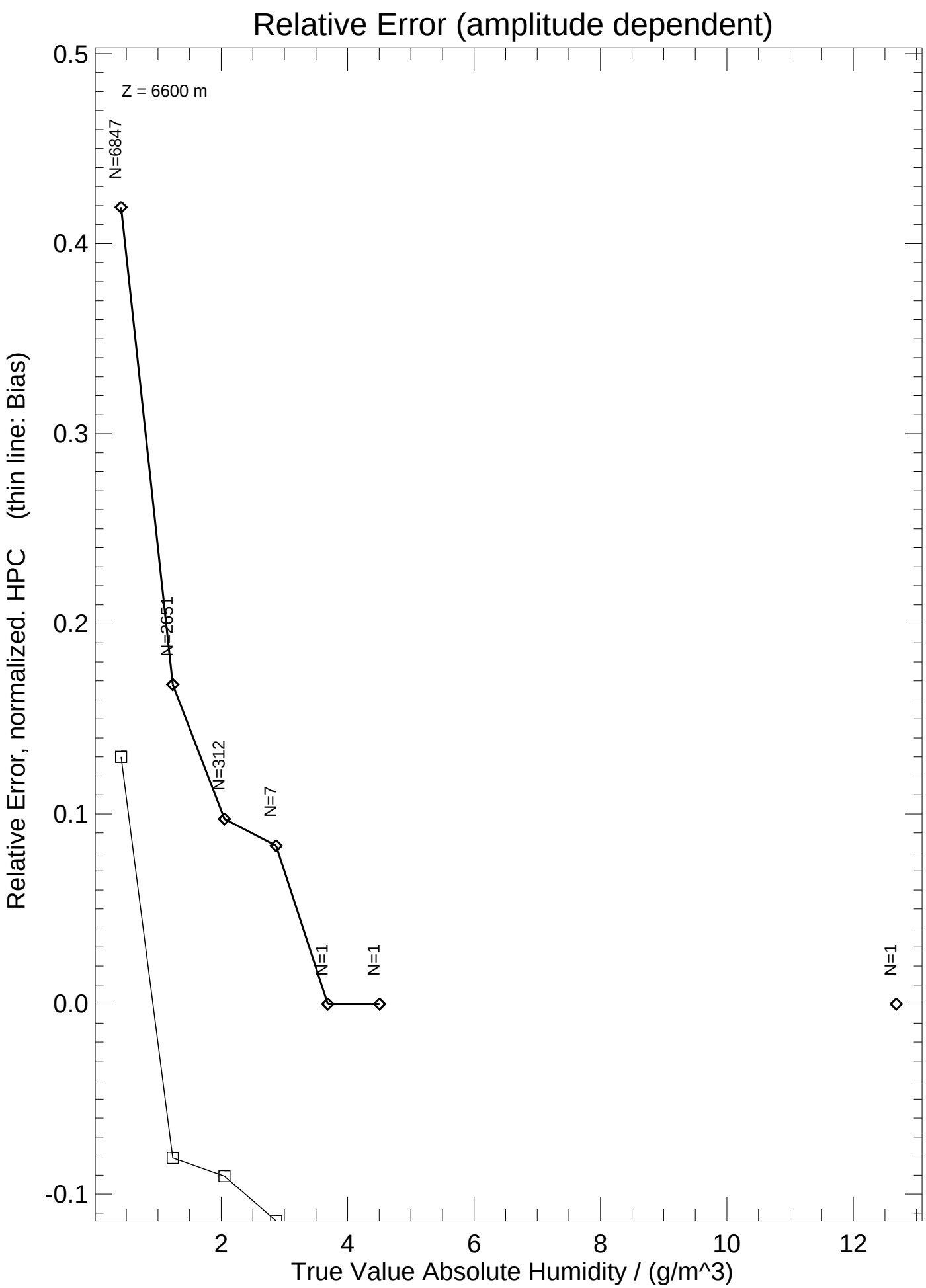

Absolute Error (amplitude dependent)
N=3894
N=1633
N=1031
N=985
N=948
N=792
N=386
N=114
N=27
N=5
N=1
N=2
N=2
Z = 6200 m
Mean StD = 0.23 Max StD = 0.29
Mean bias = 0.11 Max bias = 0.22
0.0
-0.5
-1.0
-1.5
-2.0
1
2
3
4
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

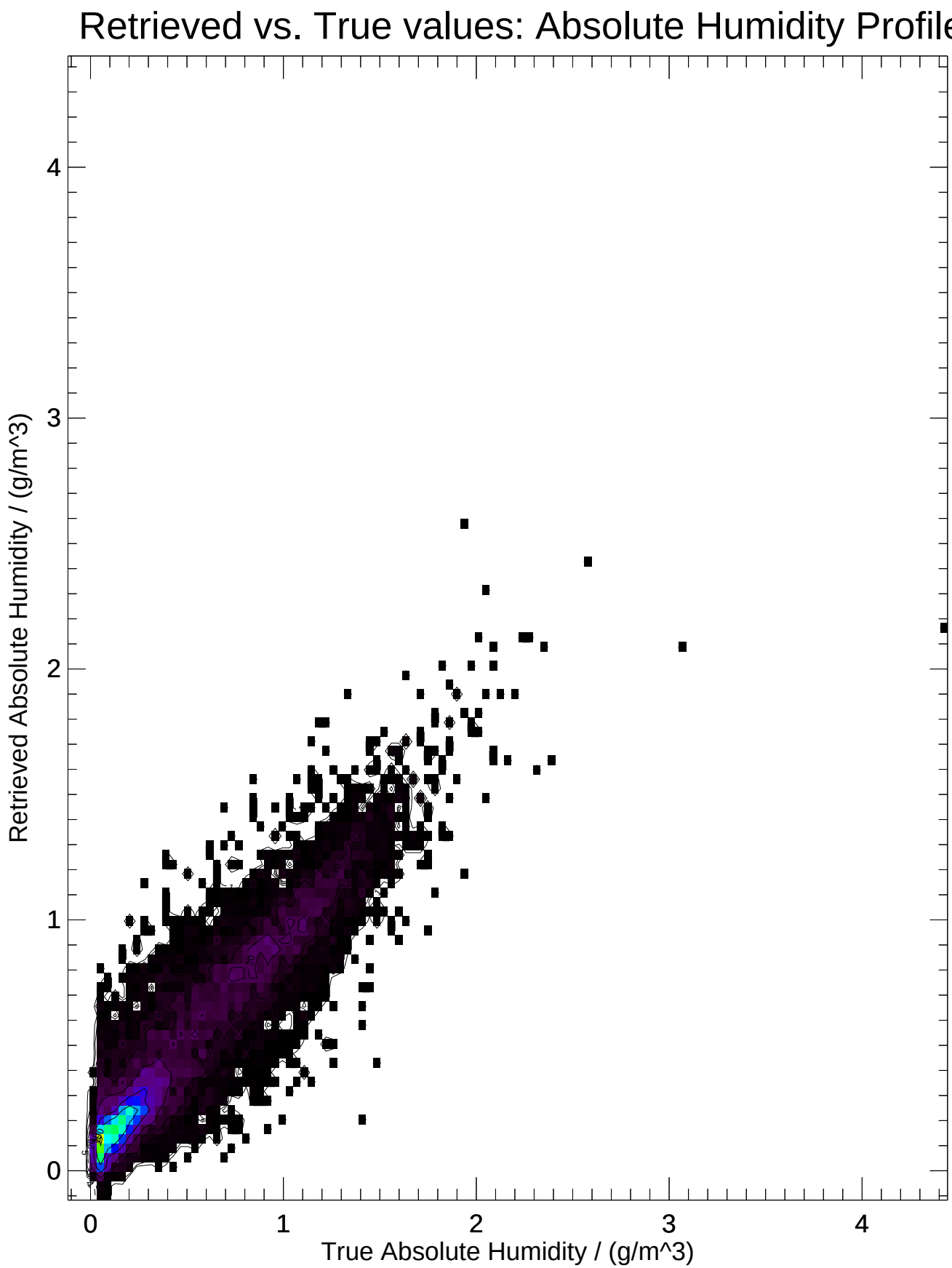

Relative Error (amplitude dependent)
Z = 6300 m
N=3894
N=1633
N=1031
N=985
N=948
N=792
N=386
N=114
N=27
N=5
N=1
N=2
N=2
1.0
0.5
0.0
Relative Error, normalized. HPC (thin line: Bias)
1
2
3
4
True Value Absolute Humidity / (g/m^3)

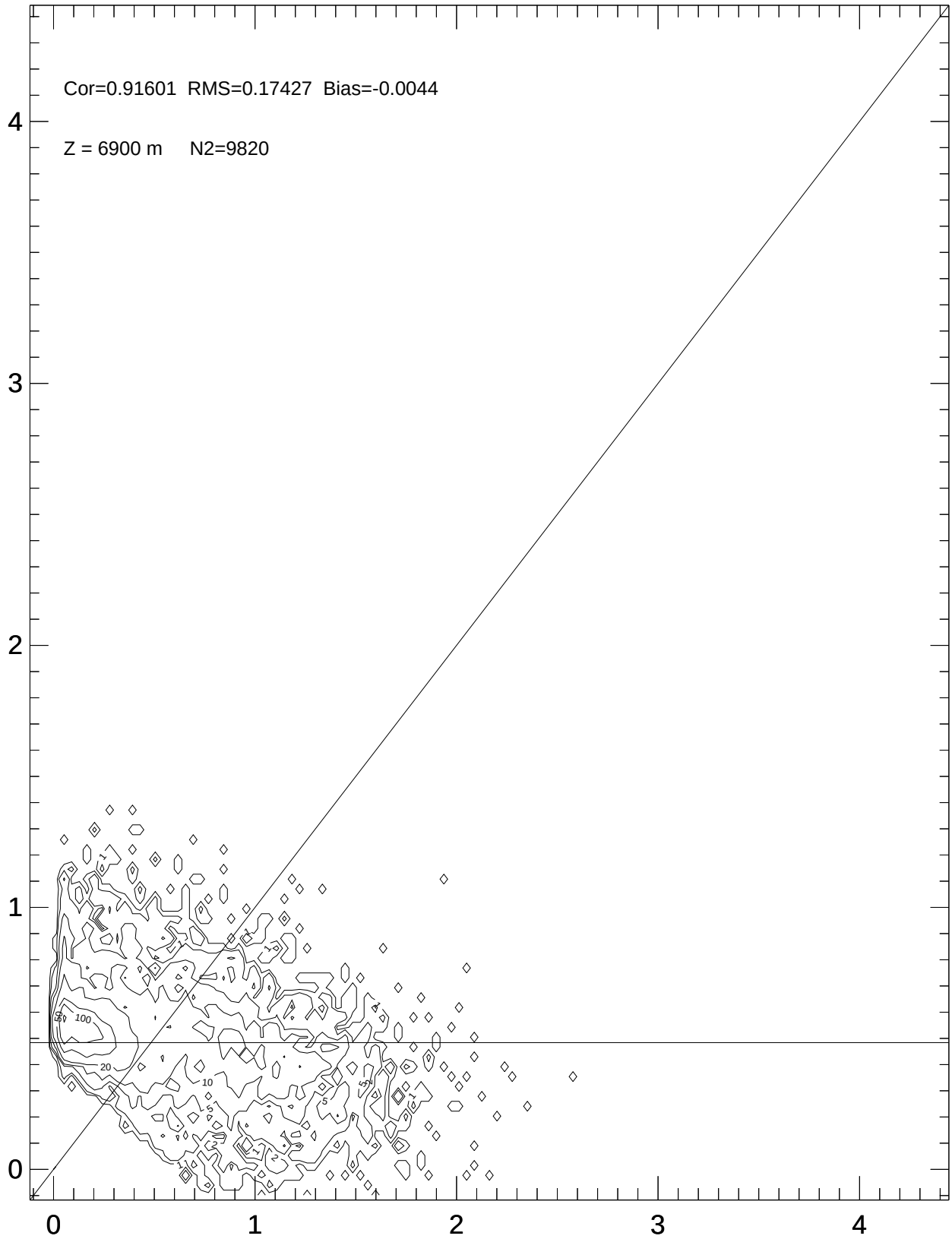

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8
10
12

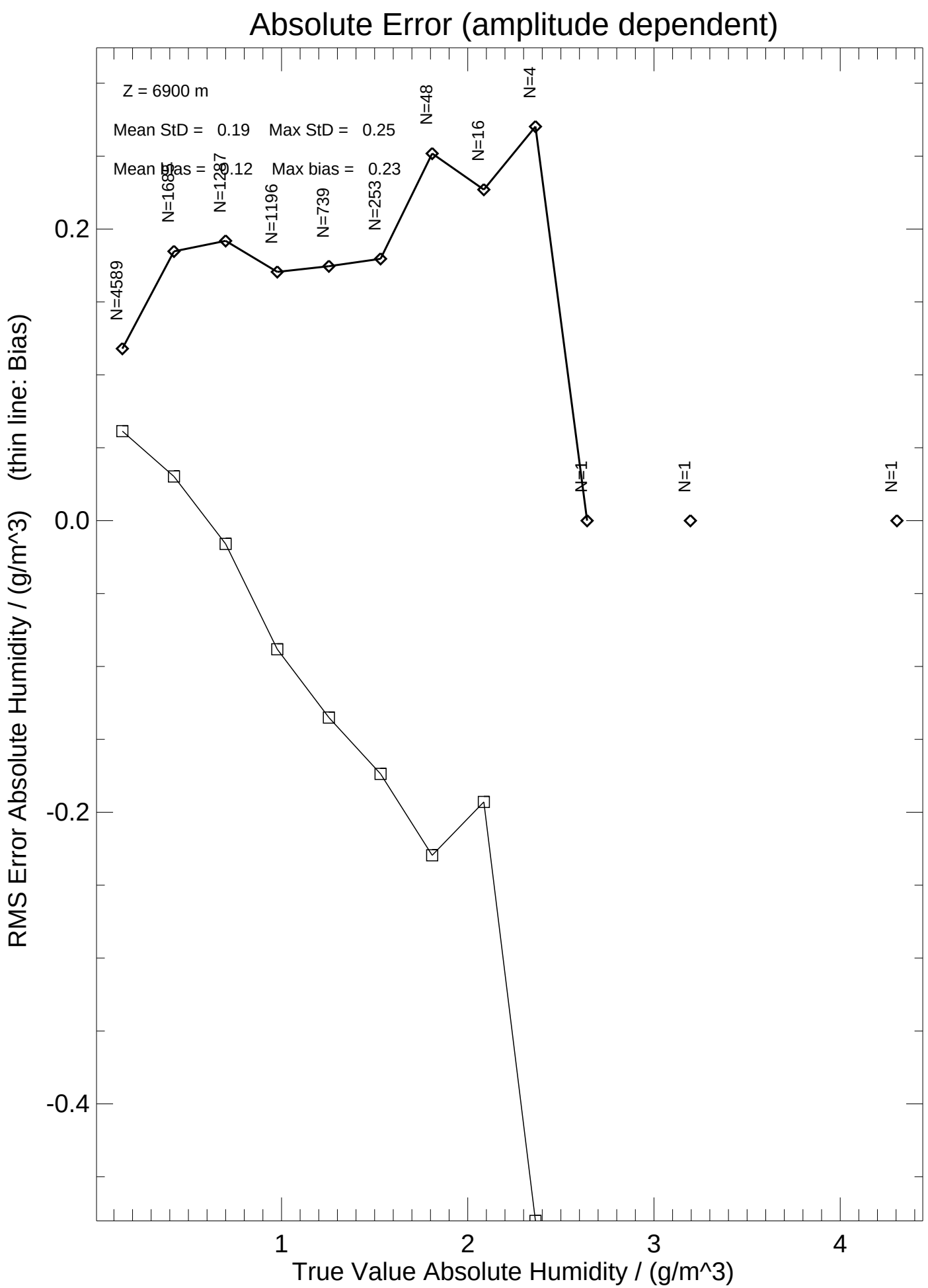

Cor=0.90185 RMS=0.23031 Bias=-0.0032
Z = 6600 m N2=9820
0
2
4
6
8
10
12
100
50
20
10
1

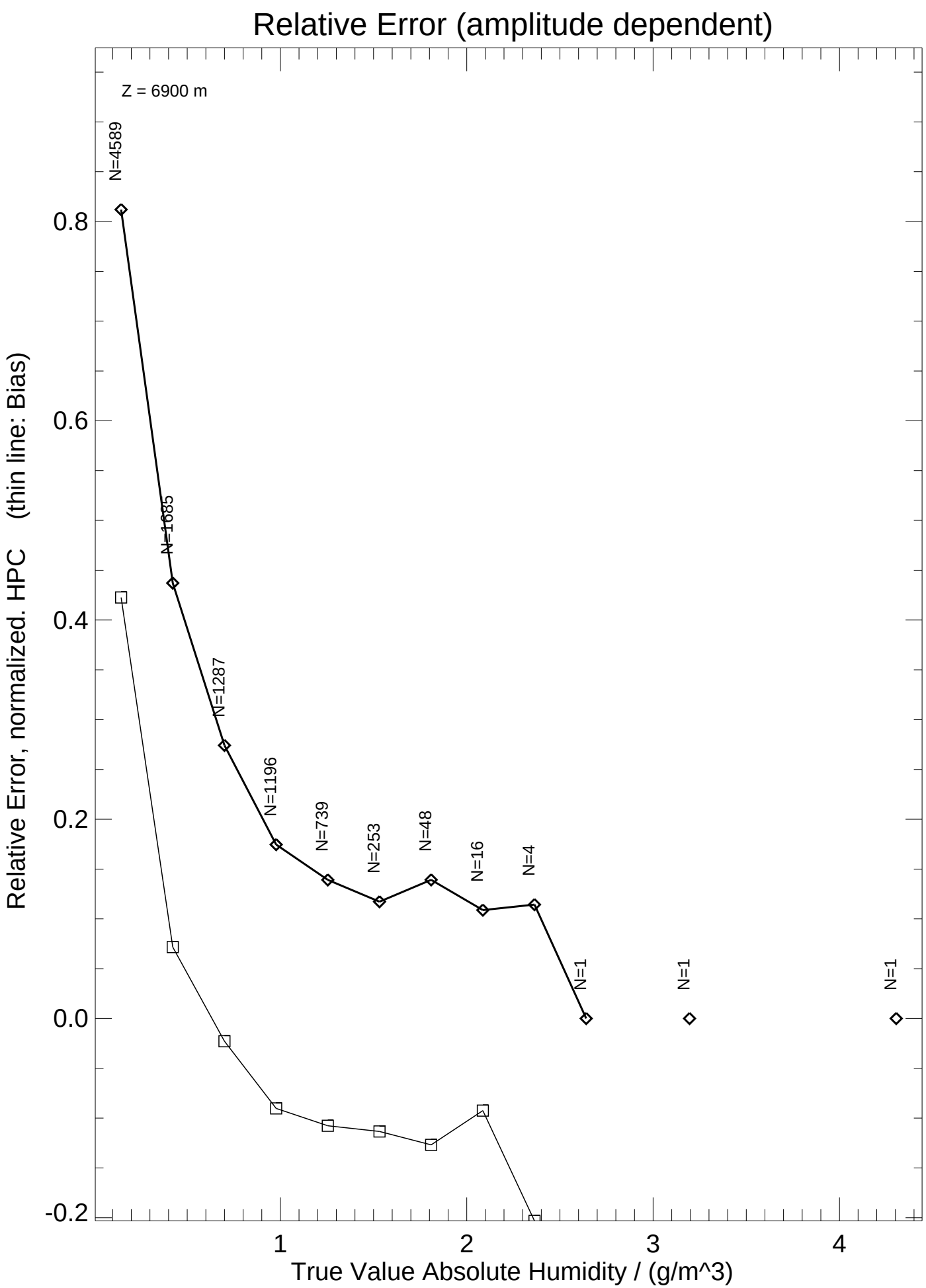

Absolute Error (amplitude dependent)
Z = 6600 m
Mean StD = 0.21 Max StD = 0.24
Mean bias = 0.17 Max bias = 0.33
N=6847
N=2651
N=3122
N=7
N=1
N=1
N=1
0.2
0.1
0.0
-0.1
-0.2
-0.3
2
4
6
8
10
12
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

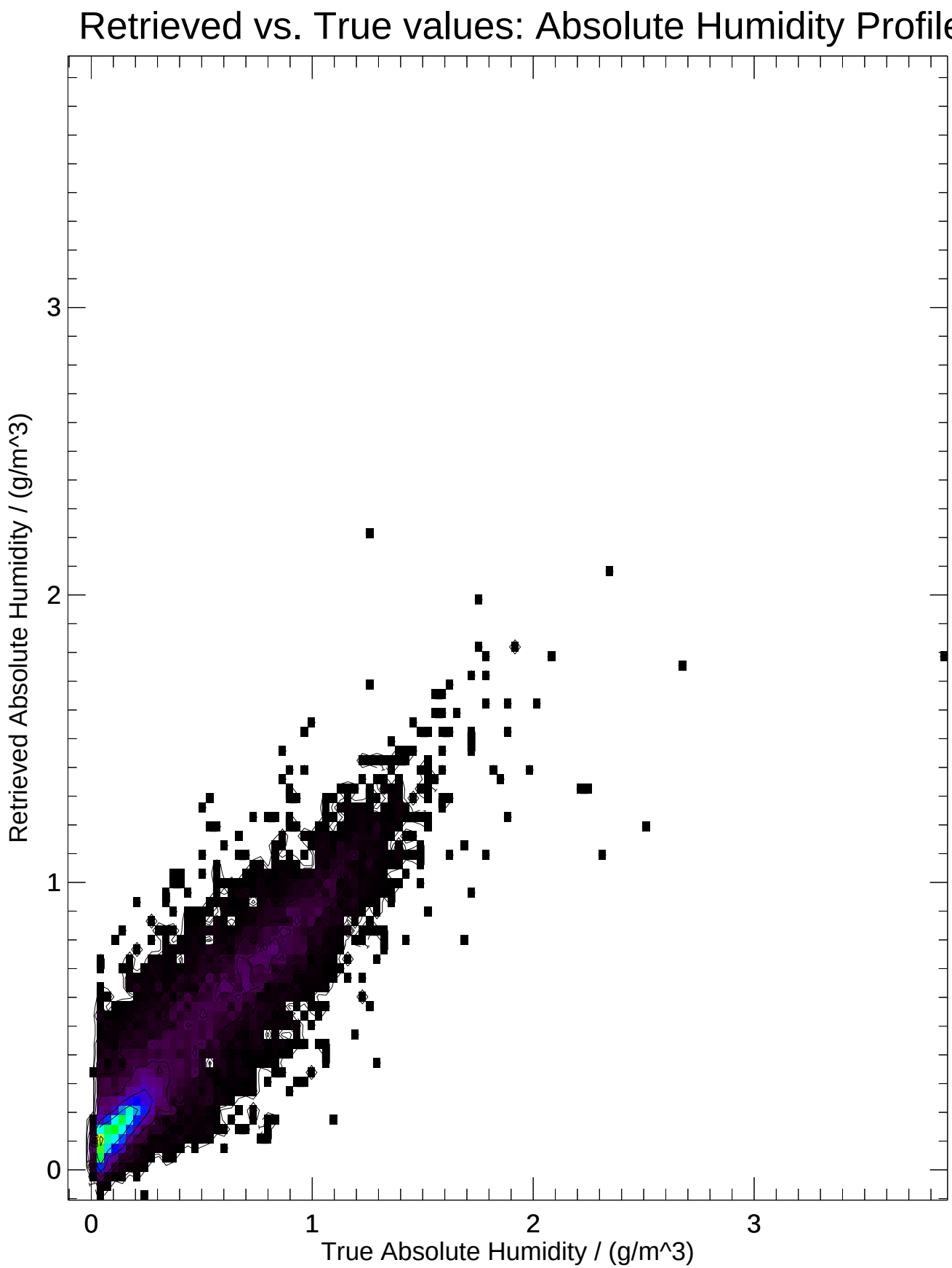

Relative Error (amplitude dependent)
Z = 6600 m
N=6847
N=2051
N=312
N=7
N=1
N=1
N=1
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
2
4
6
8
10
12

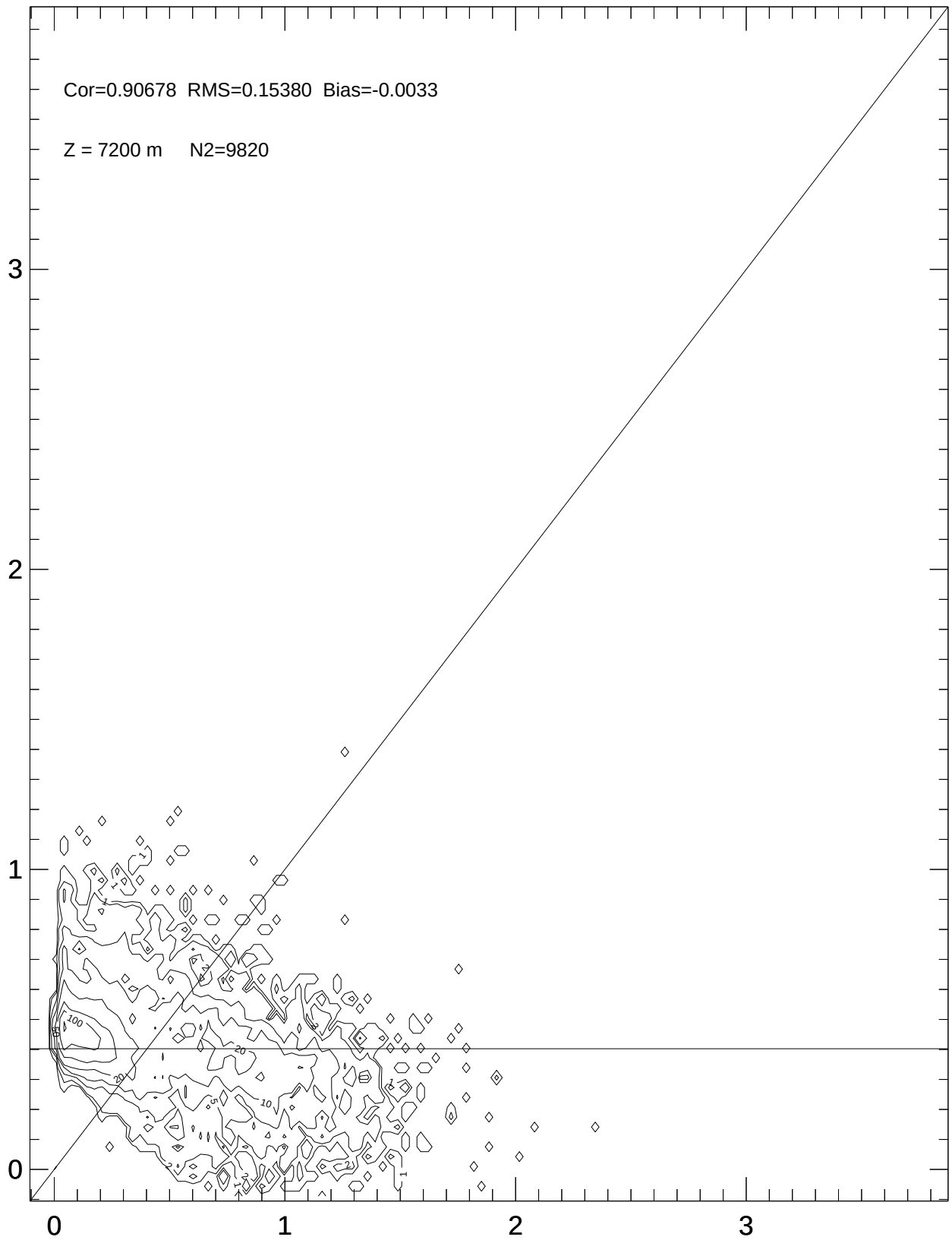

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
1
2
3
4

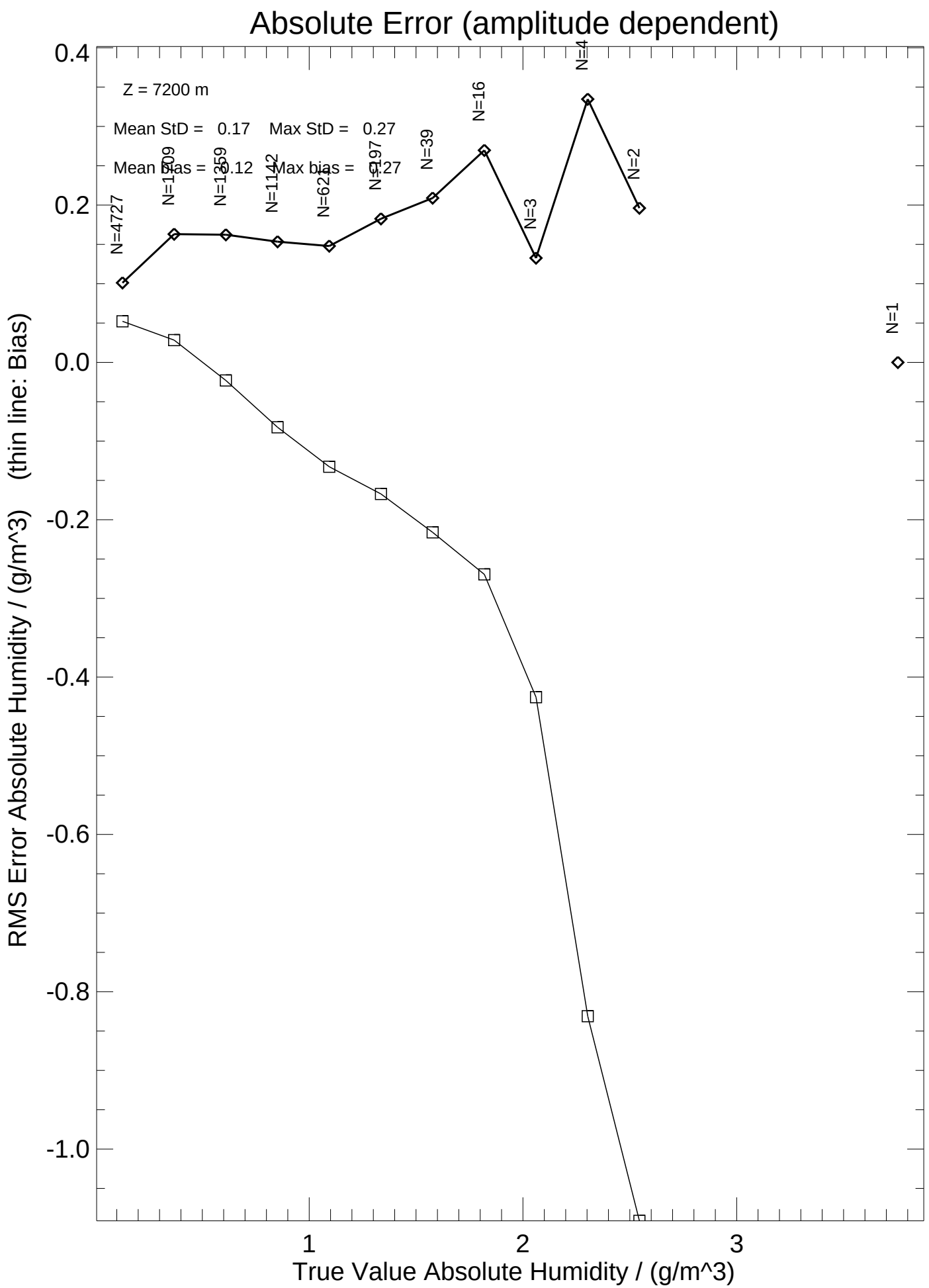

Cor=0.91601 RMS=0.17427 Bias=-0.0044
Z = 6900 m N2=9820
0
1
2
3
4
0
1
2
3
4

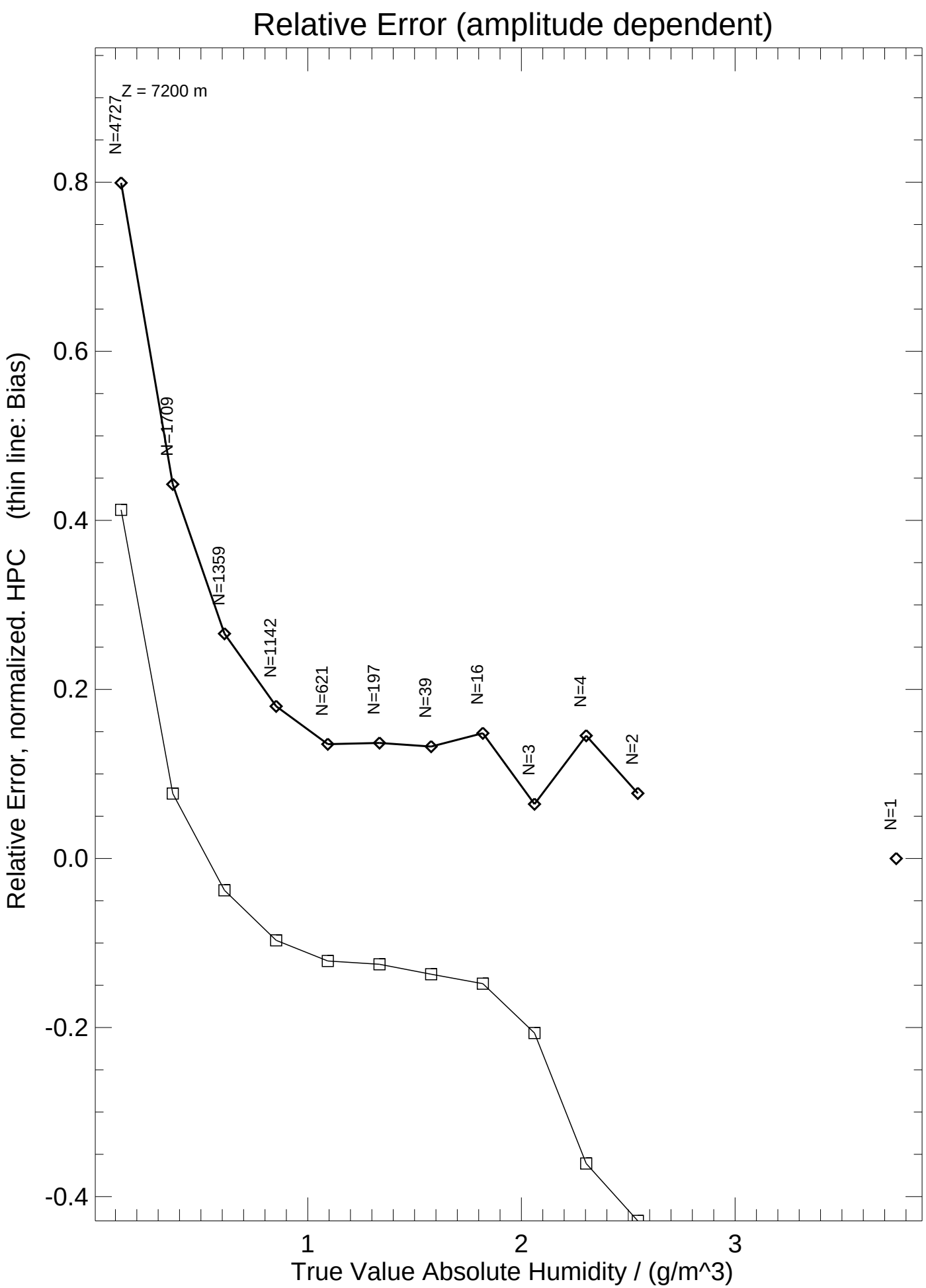

Absolute Error (amplitude dependent)
Z = 6900 m
Mean StD = 0.19 Max StD = 0.25
Mean bias = 0.12 Max bias = 0.23
N=4589
N=1688
N=1287
N=1196
N=739
N=253
N=48
N=16
N=4
N=1
N=1
N=1
0.2
0.0
-0.2
-0.4
1
2
3
4
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

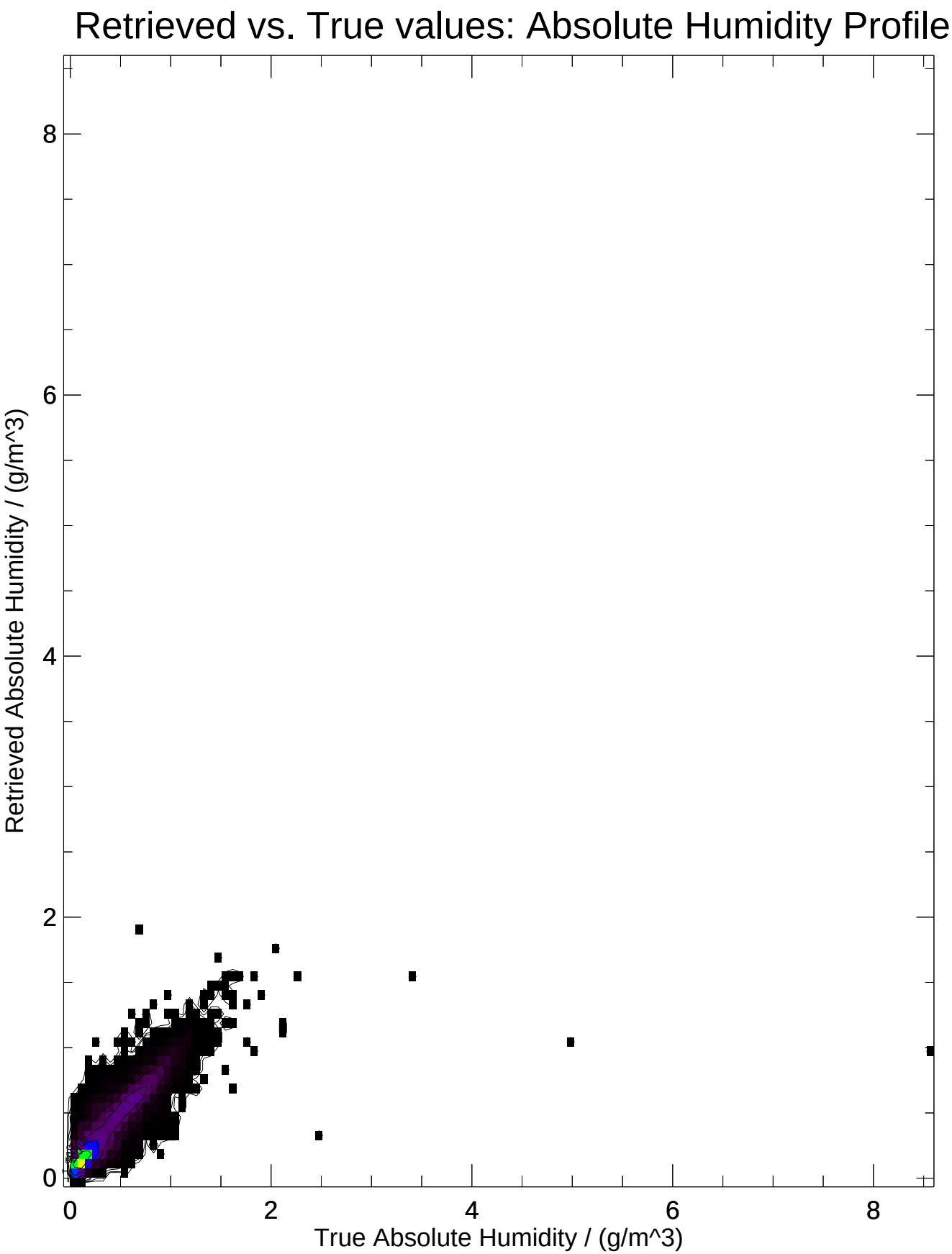

Relative Error (amplitude dependent)
Z = 6900 m
N=4589
N=1685
N=1287
N=1196
N=739
N=253
N=48
N=16
N=4
N=1
N=1
N=1
Relative Error, normalized. HPC (thin line: Bias)
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
True Value Absolute Humidity / (g/m^3)

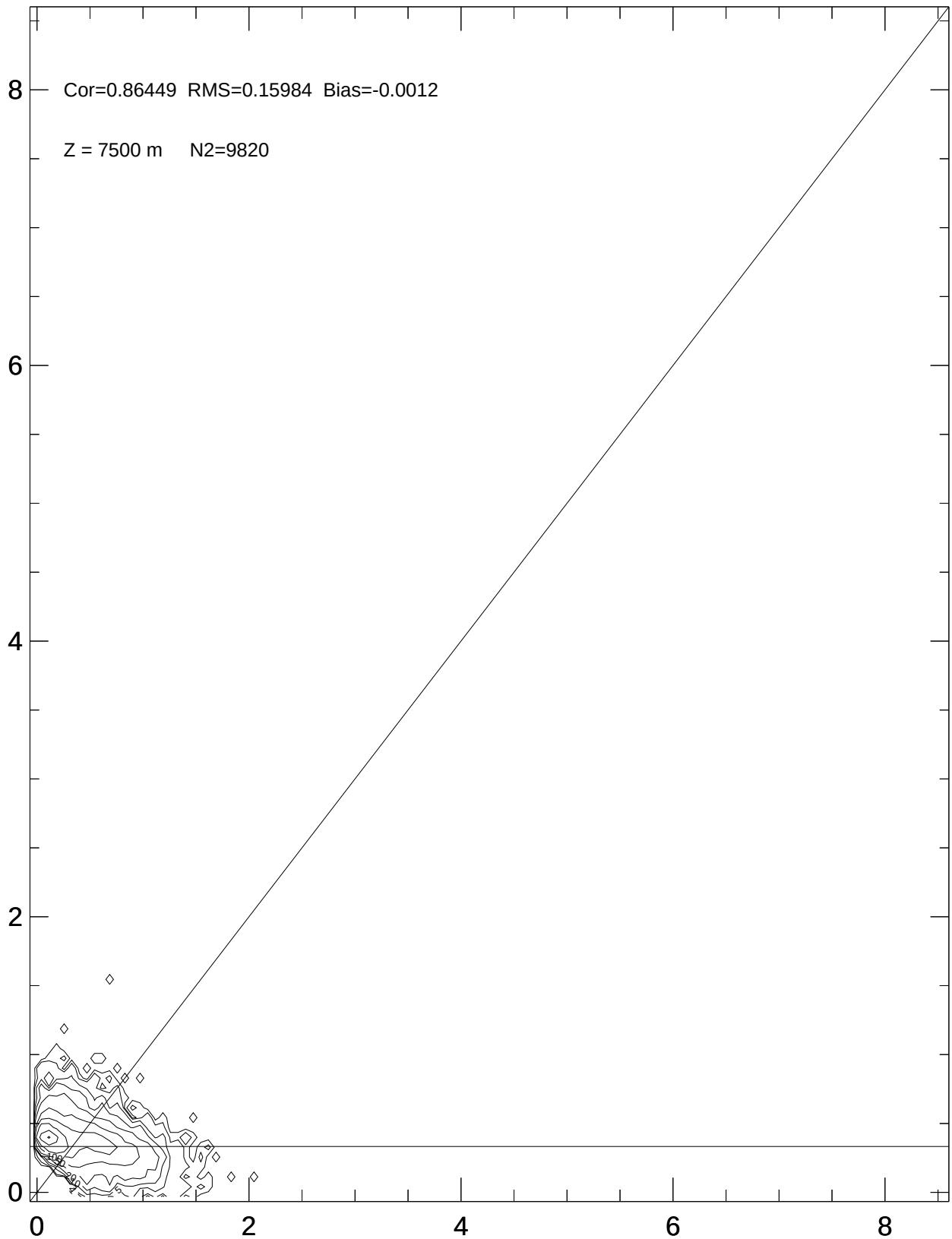

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
1
2
3
0
1
2
3

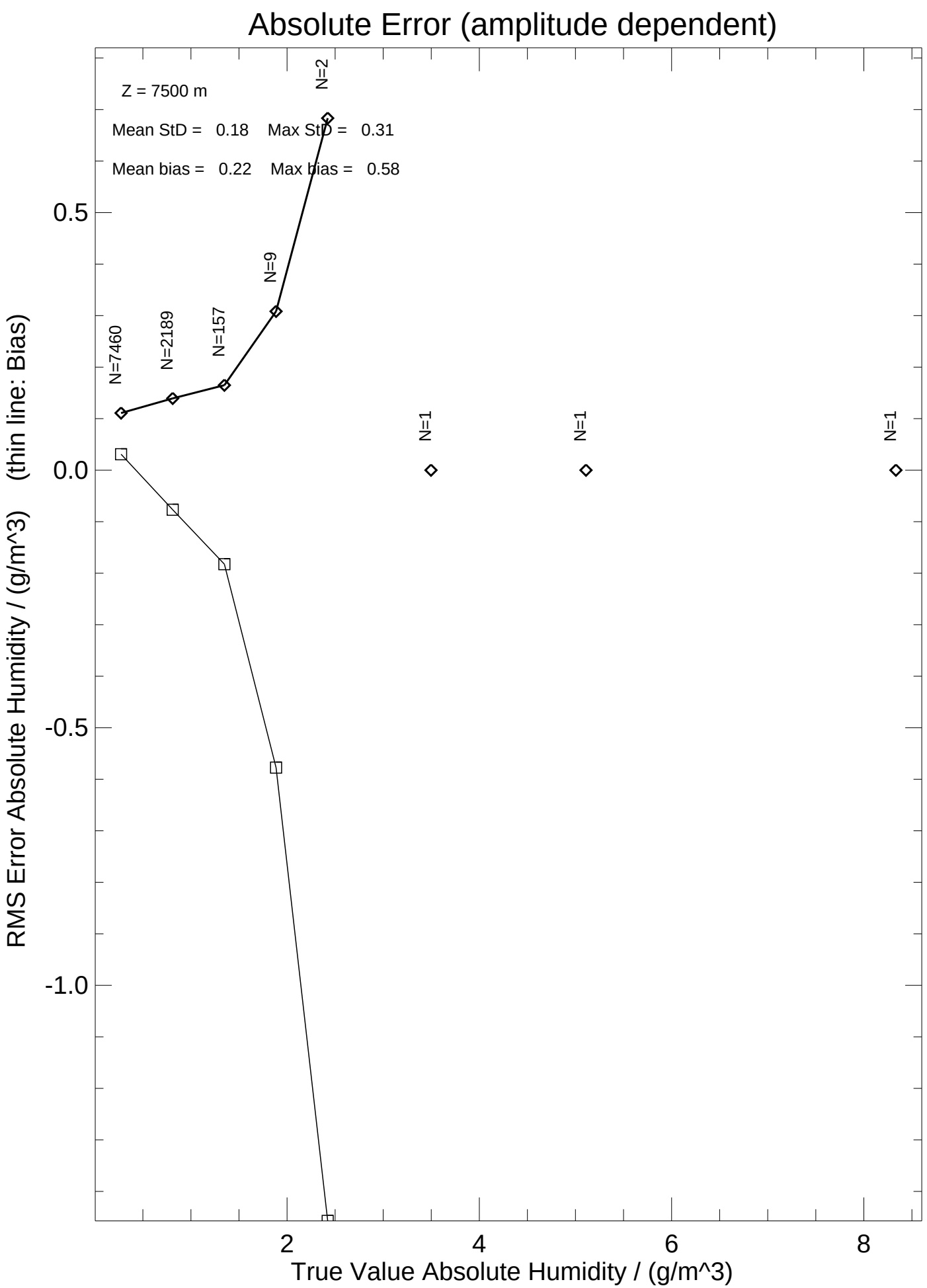

Cor=0.90678 RMS=0.15380 Bias=-0.0033
Z = 7200 m N2=9820
0
1
2
3
0
1
2
3

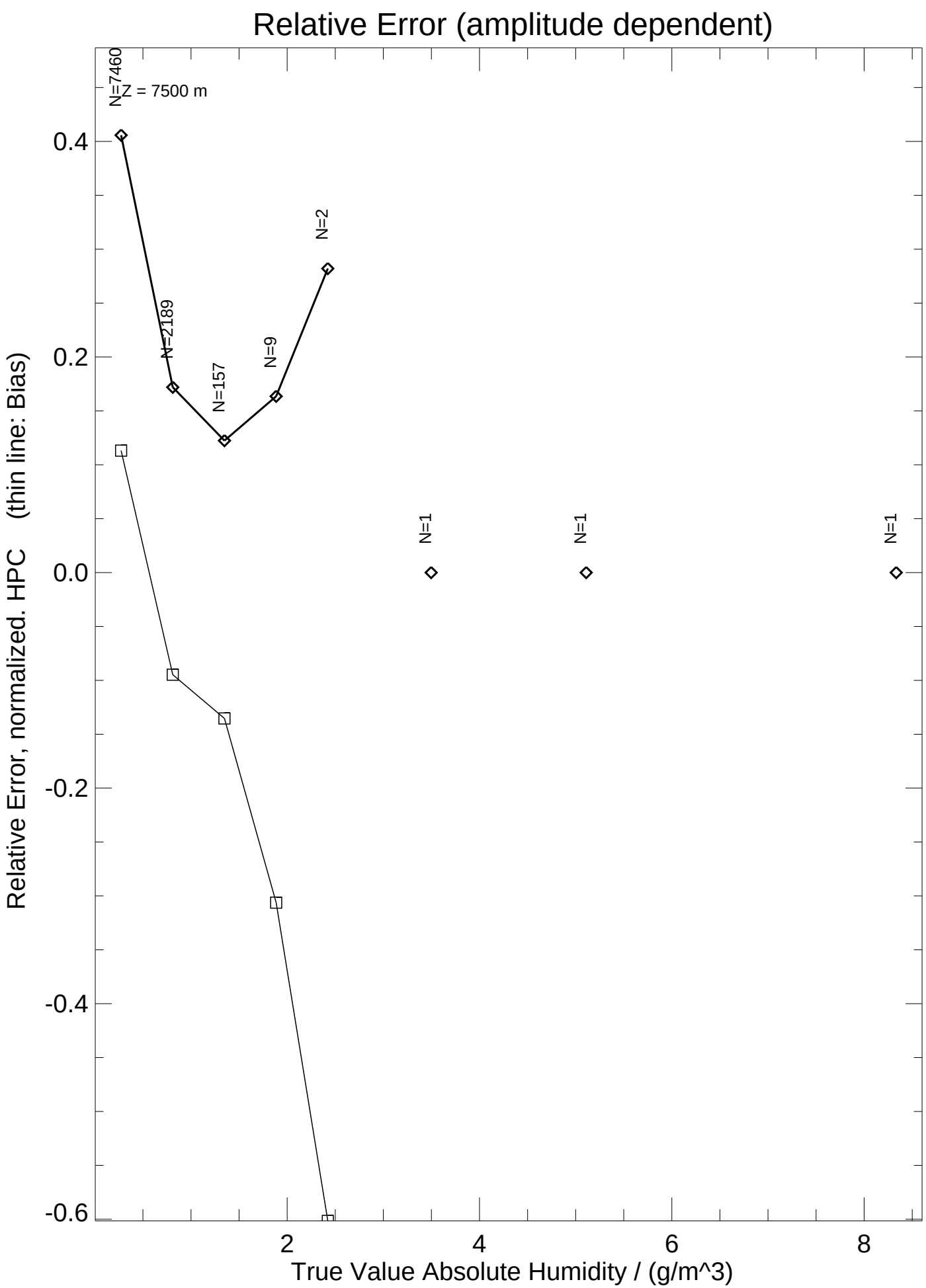

Absolute Error (amplitude dependent)
Z = 7200 m
Mean StD = 0.17 Max StD = 0.27
Mean bias = 0.12 Max bias = 0.27
N=4727
N=1709
N=1359
N=1142
N=624
N=197
N=39
N=16
N=3
N=4
N=2
N=1
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
1
2
3

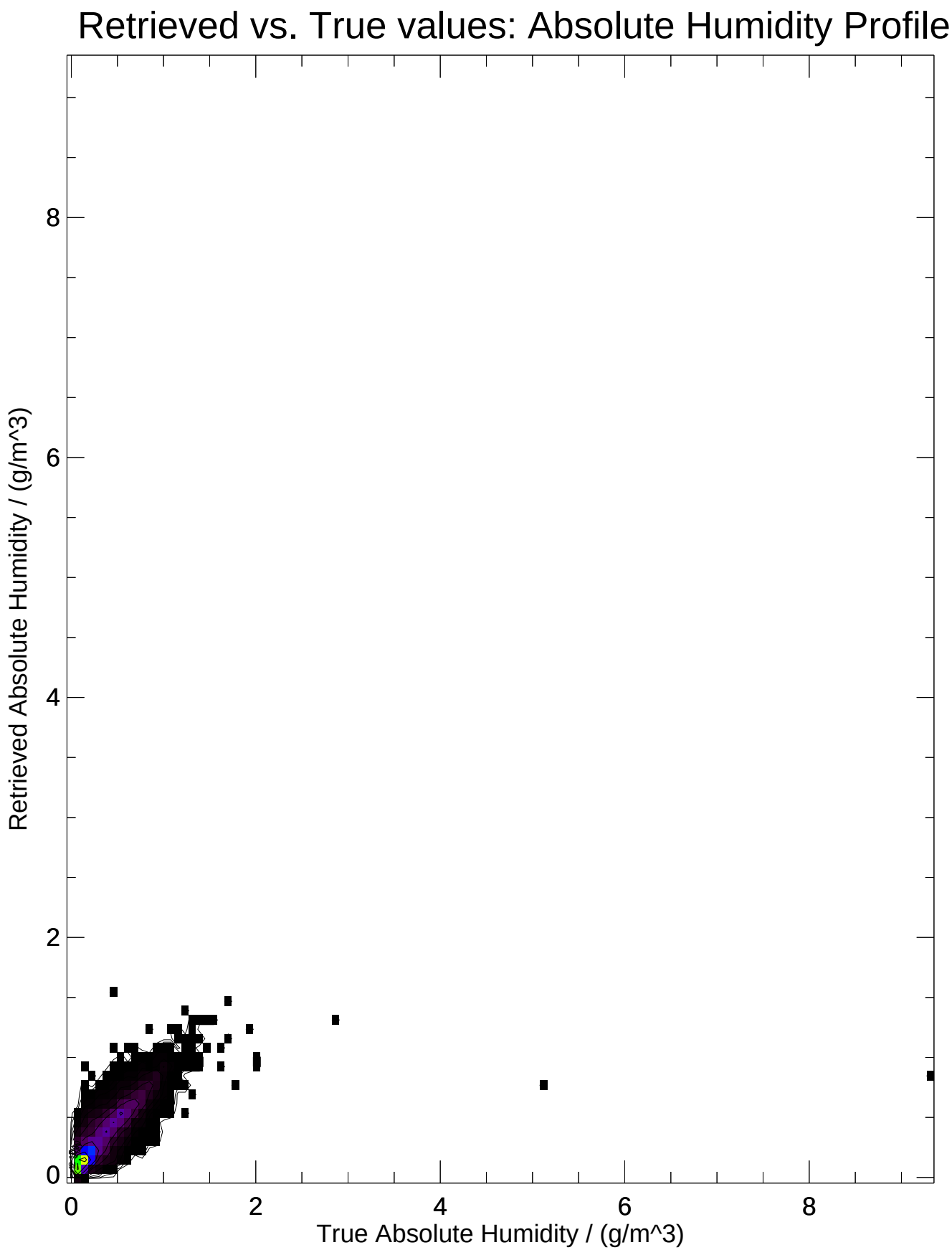

Relative Error (amplitude dependent)
Z = 7200 m
N=4727
N=1709
N=1359
N=1142
N=621
N=197
N=39
N=16
N=3
N=4
N=2
N=1
Relative Error, normalized. HPC (thin line: Bias)
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
1
2
3
True Value Absolute Humidity / (g/m^3)

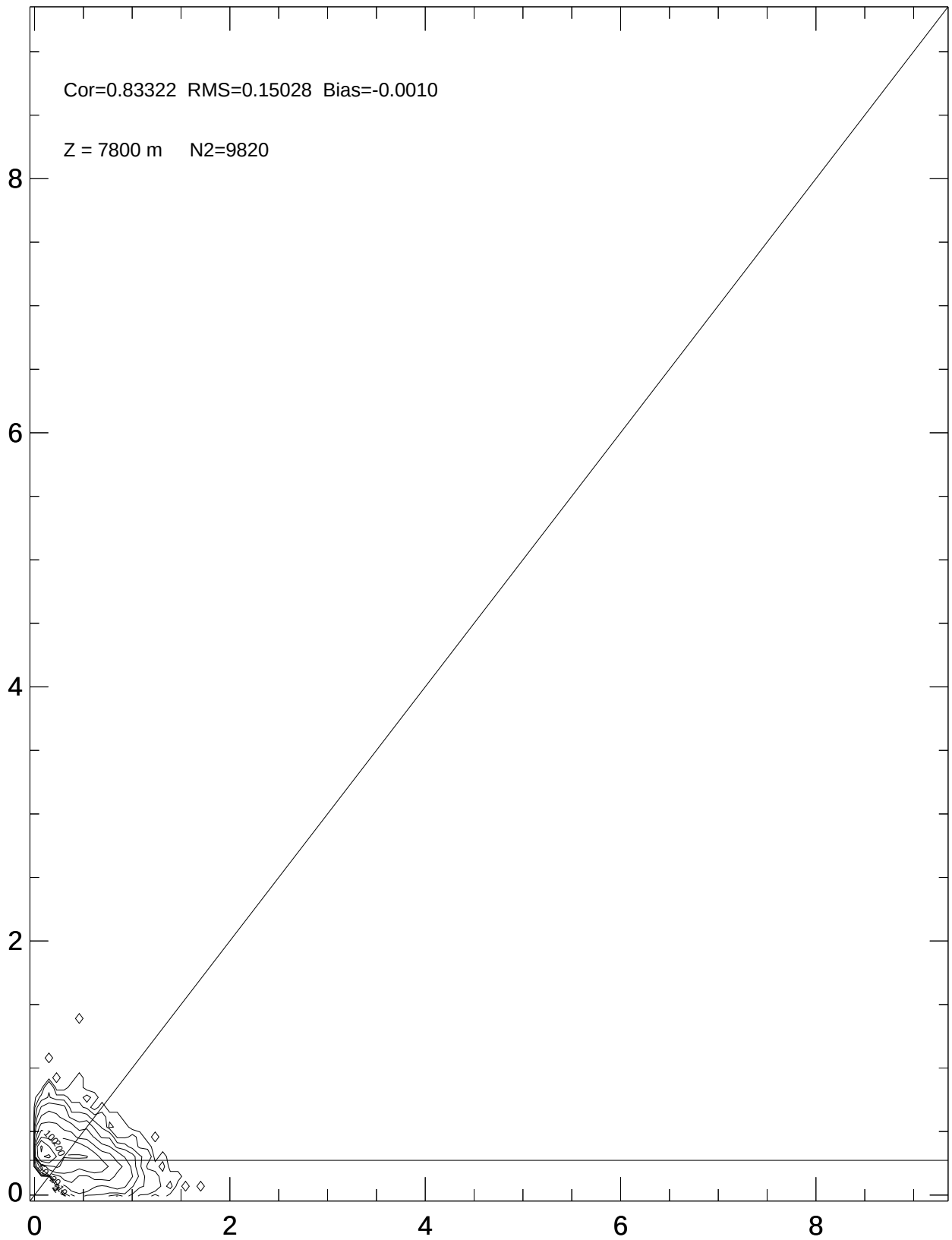

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8

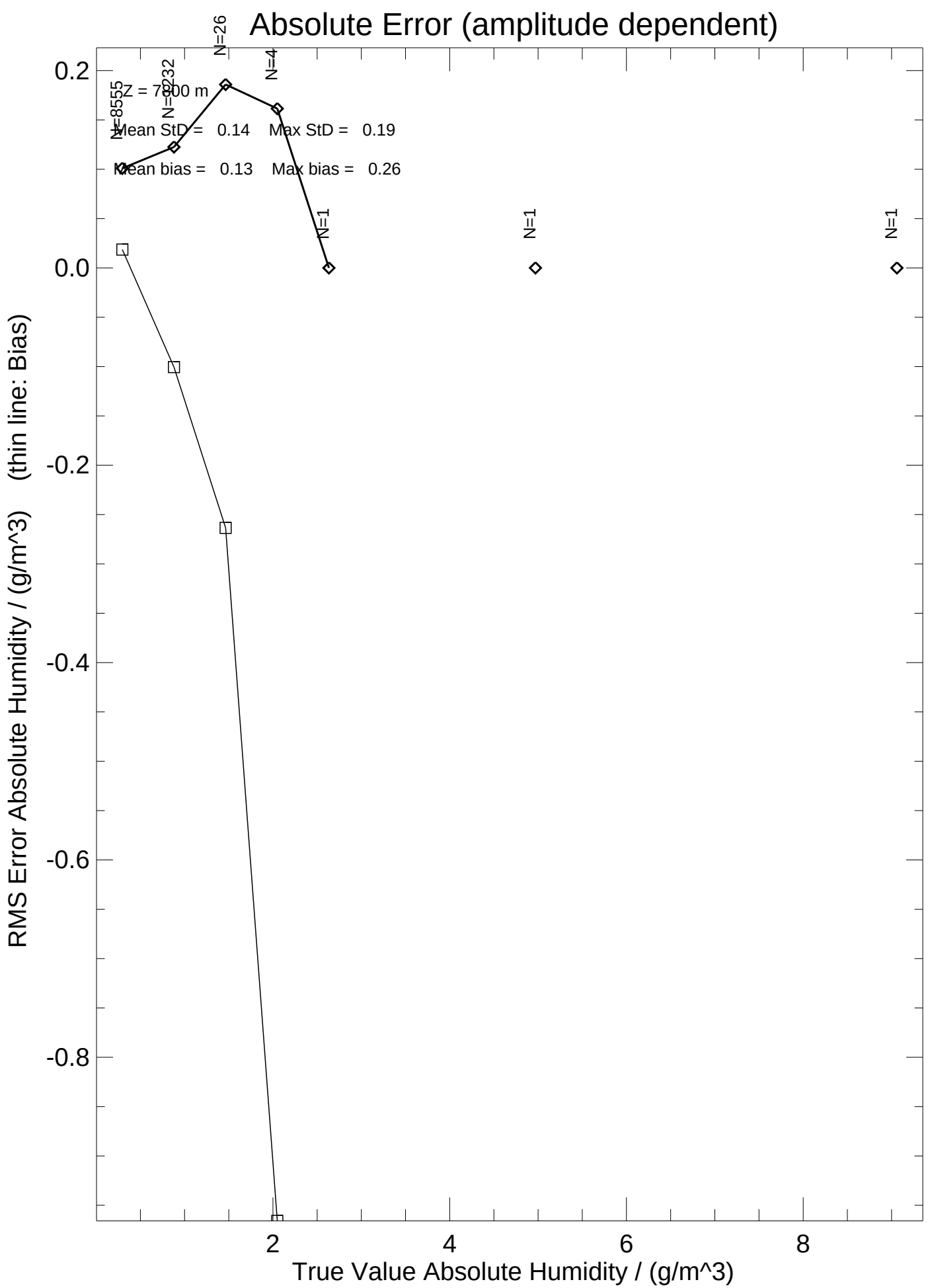

Cor=0.86449 RMS=0.15984 Bias=-0.0012
Z = 7500 m N2=9820
0
2
4
6
8
0
2
4
6
8

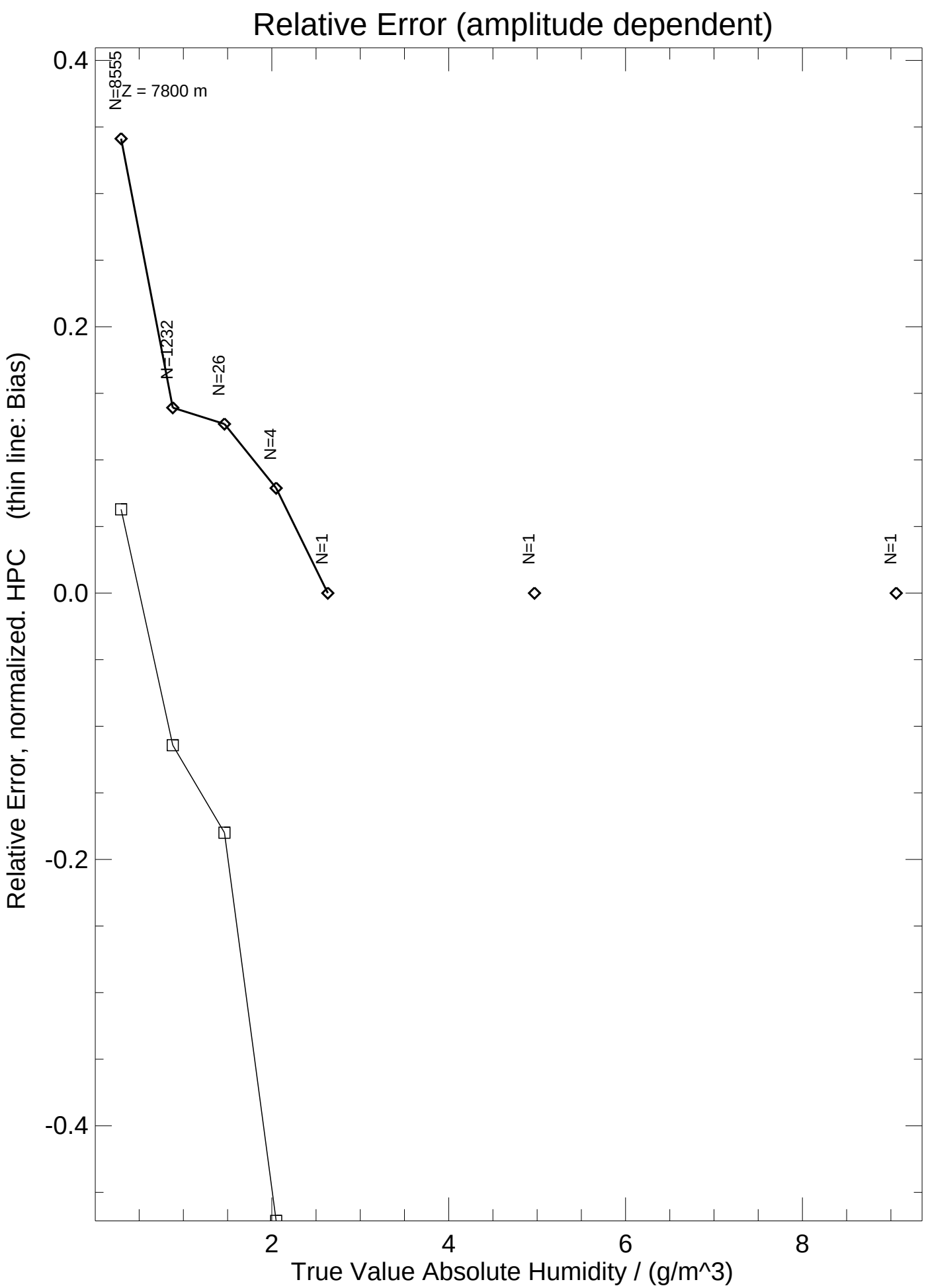

Absolute Error (amplitude dependent)
Z = 7500 m
Mean StD = 0.18 Max StD = 0.31
Mean bias = 0.22 Max bias = 0.58
N=2
N=9
N=157
N=2189
N=7460
N=1
N=1
N=1
0.5
0.0
-0.5
-1.0
2
4
6
8
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

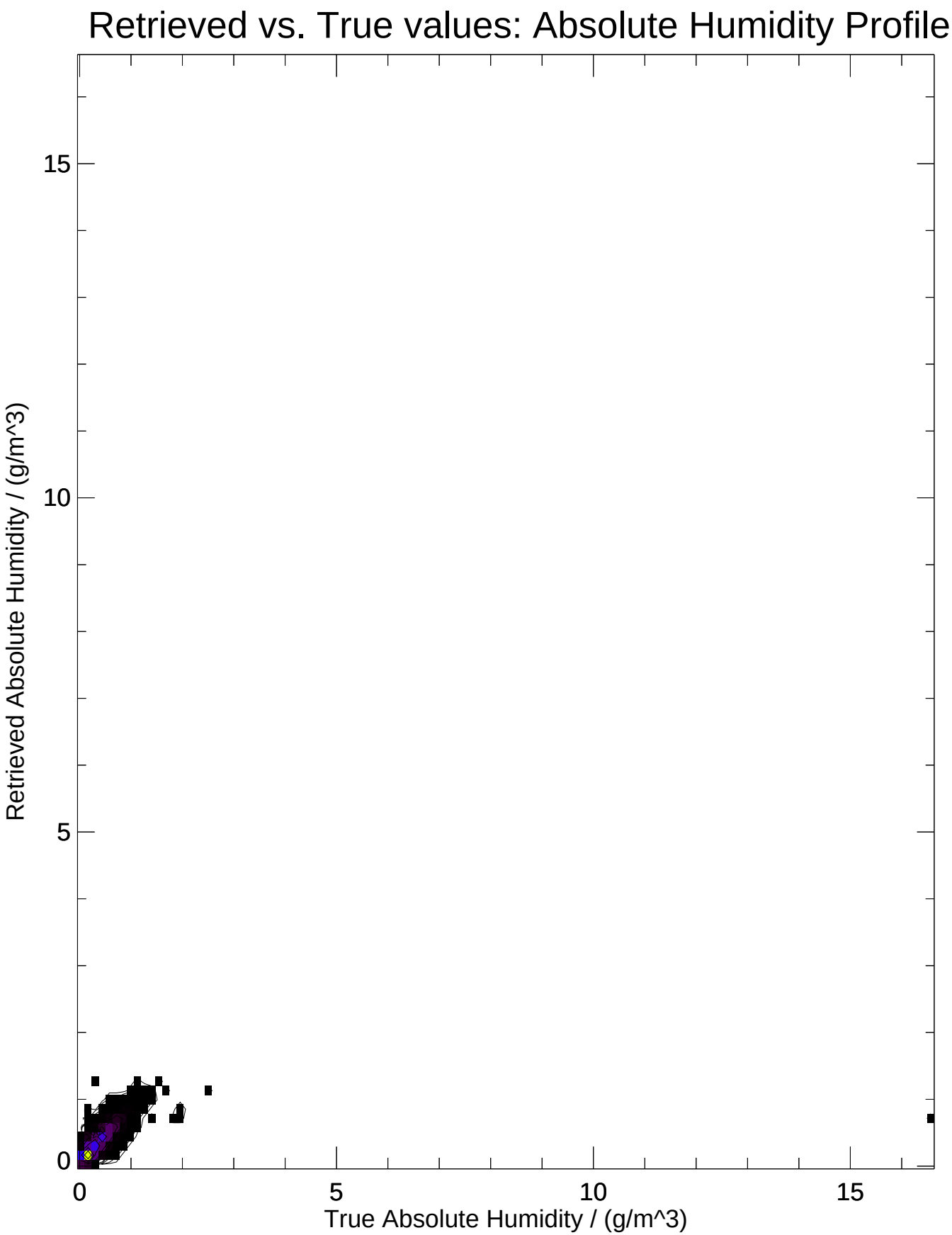

Relative Error (amplitude dependent)
Z = 7500 m
N=7460
N=2189
N=157
N=9
N=2
N=1
N=1
N=1
0.4
0.2
0.0
-0.2
-0.4
-0.6
2
4
6
8
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

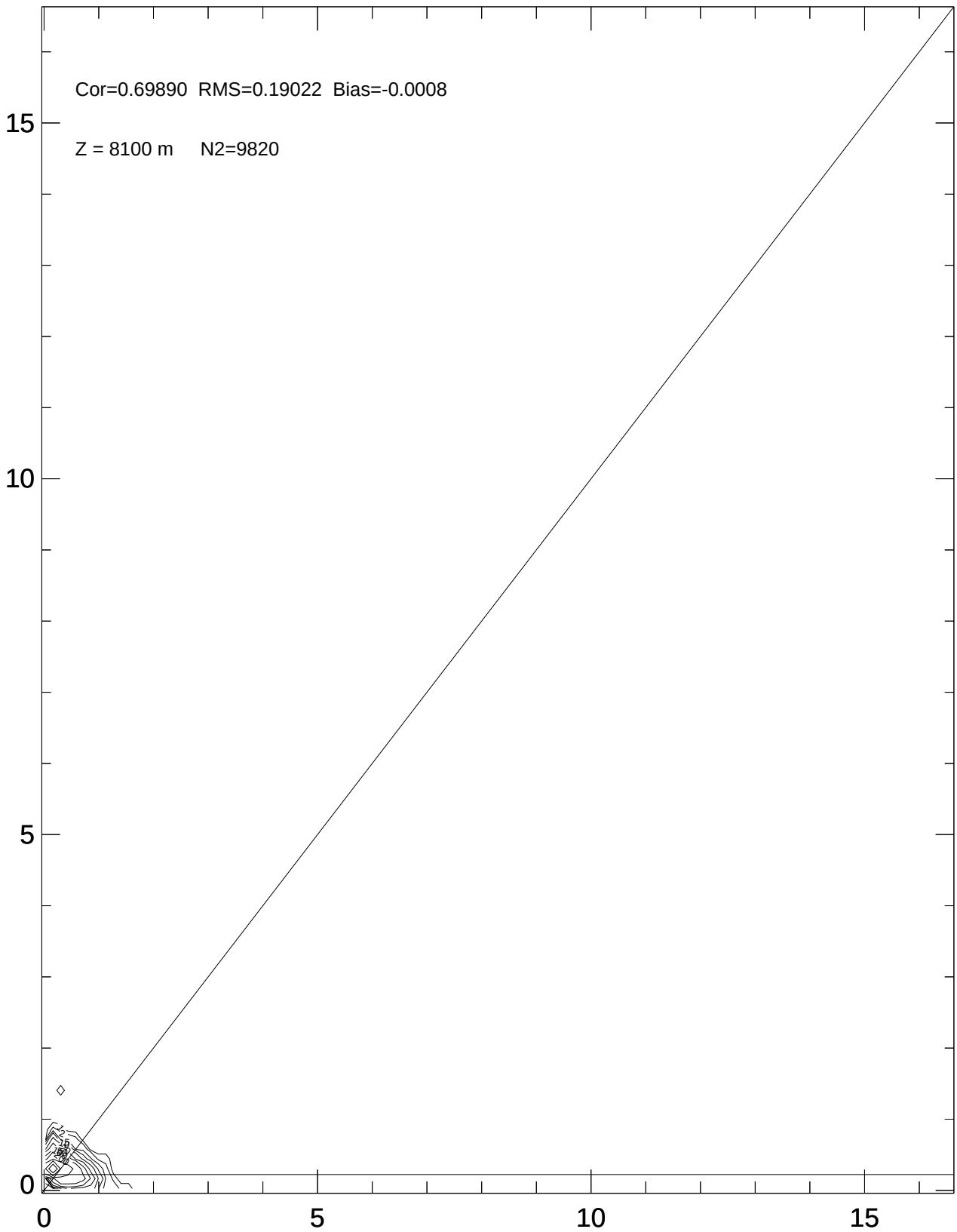

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
2
4
6
8

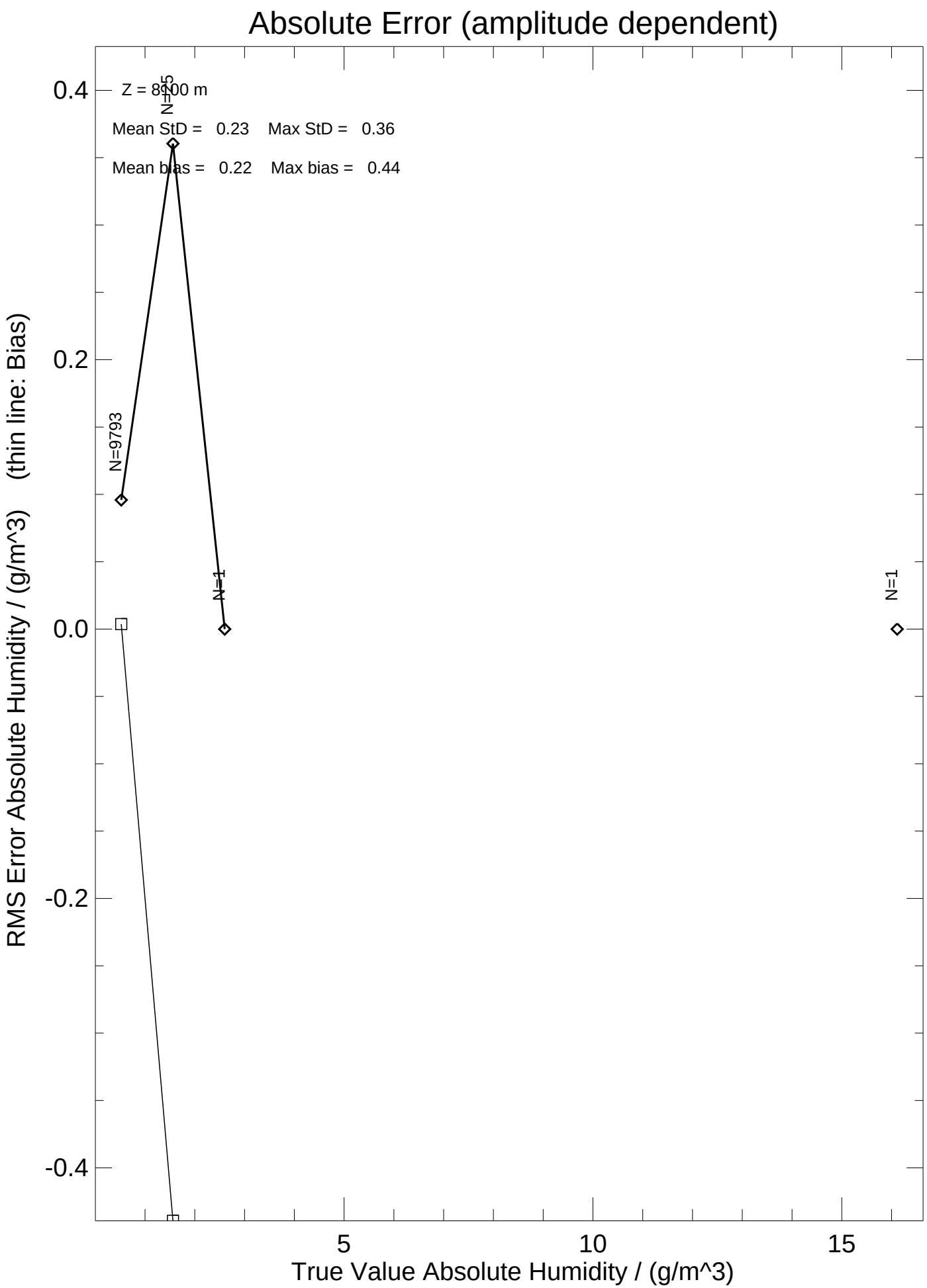

Cor=0.83322 RMS=0.15028 Bias=-0.0010
Z = 7800 m N2=9820
0
2
4
6
8
0
2
4
6
8

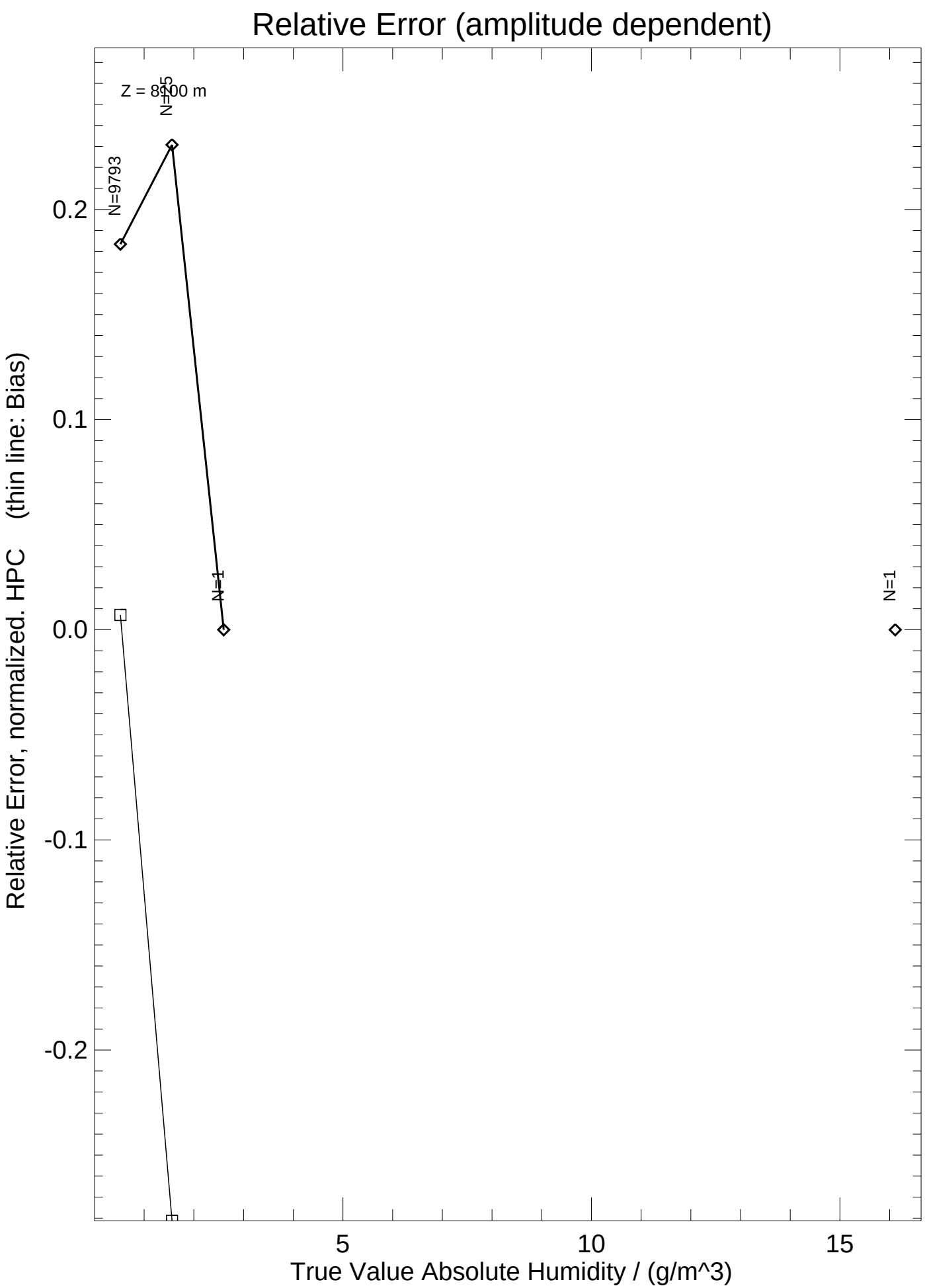

Absolute Error (amplitude dependent)
N=26
N=4
N=232
N=8555
Z = 7900 m
Mean StD = 0.14 Max StD = 0.19
Mean bias = 0.13 Max bias = 0.26
N=1
N=1
N=1
0.2
0.0
-0.2
-0.4
-0.6
-0.8
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
2
4
6
8
True Value Absolute Humidity / (g/m^3)

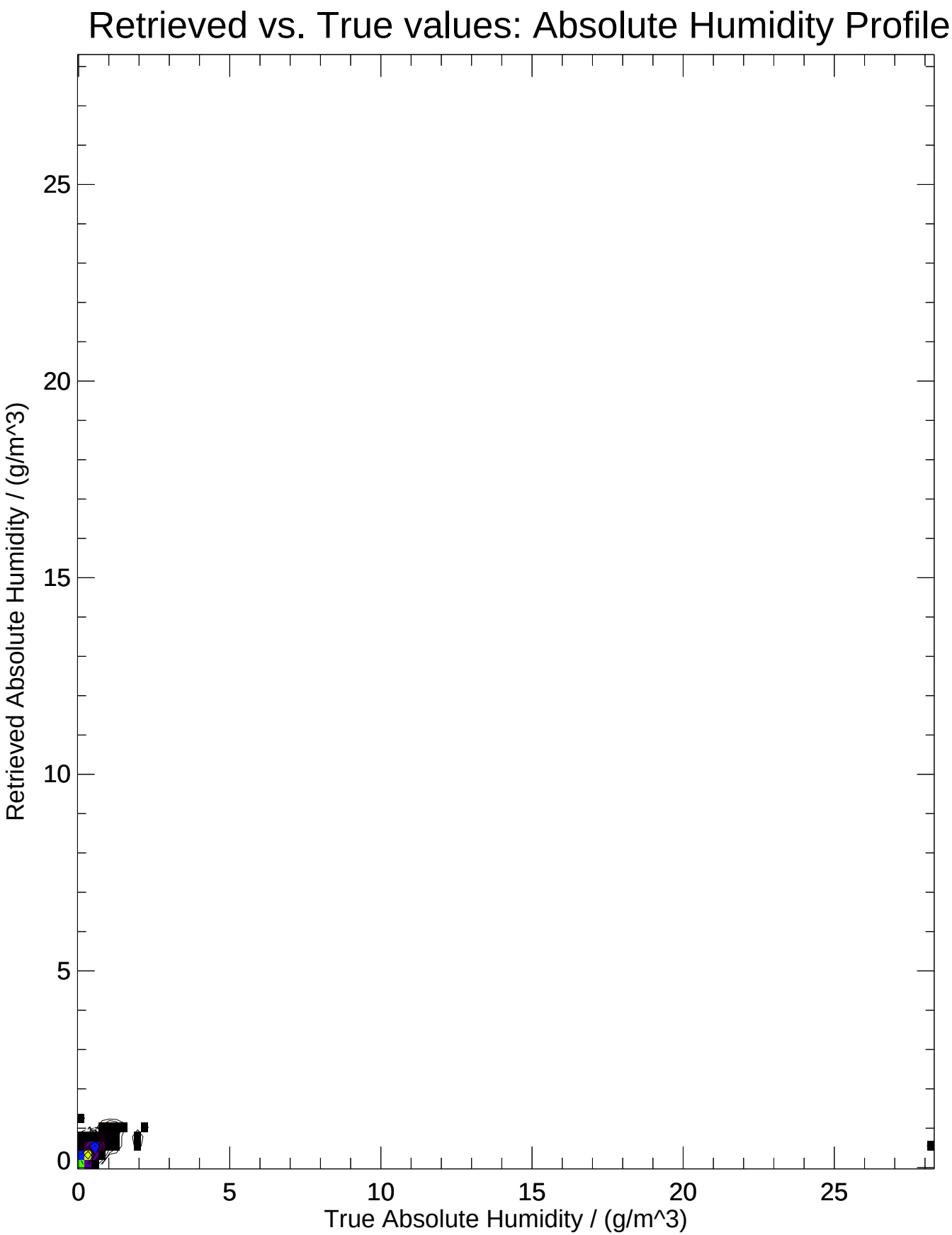

Relative Error (amplitude dependent)
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
0.4
0.2
0.0
-0.2
-0.4
2
4
6
8
N=8555
Z = 7800 m
N=1232
N=26
N=4
N=1
N=1
N=1

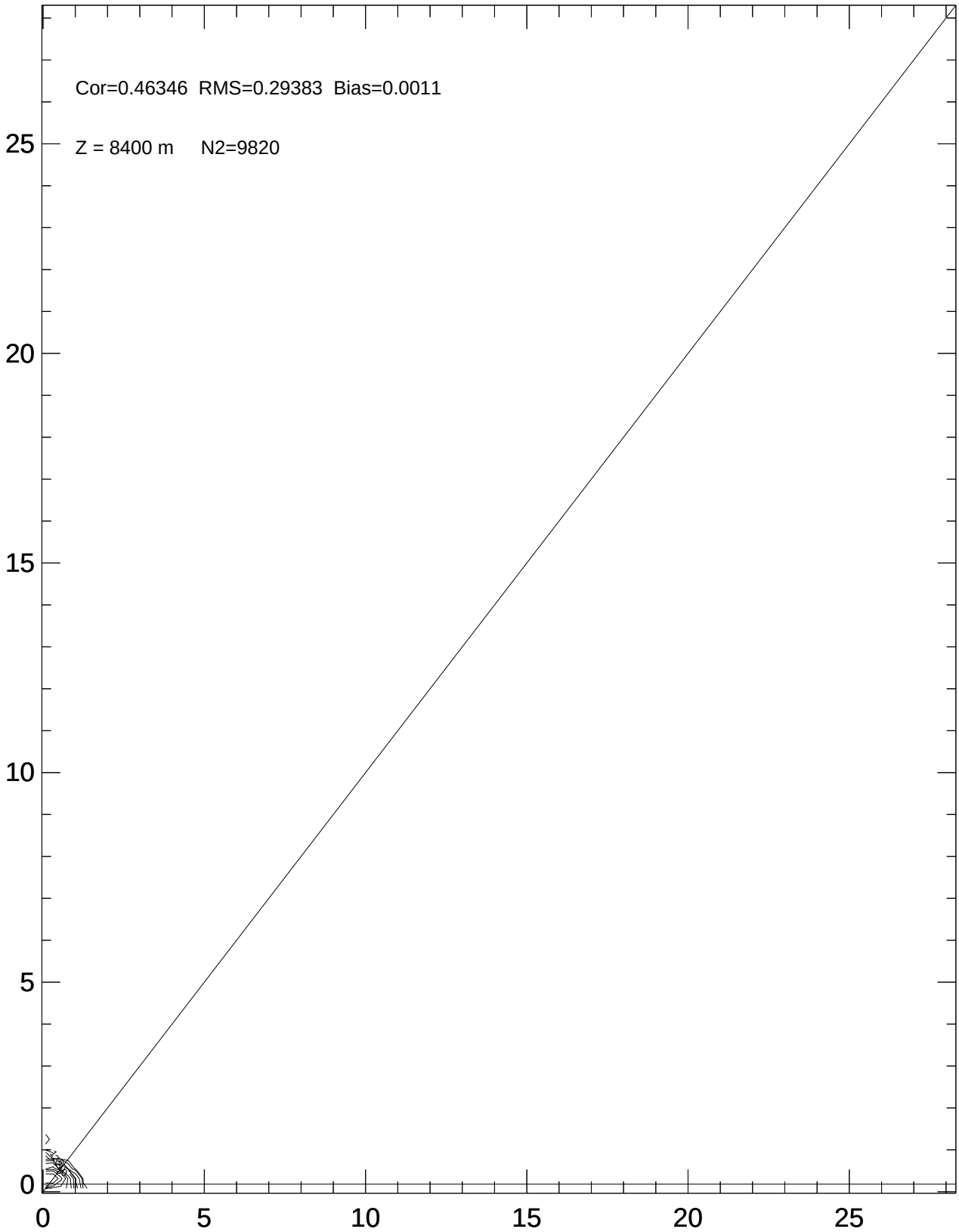

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
5
10
15
0
5
10
15

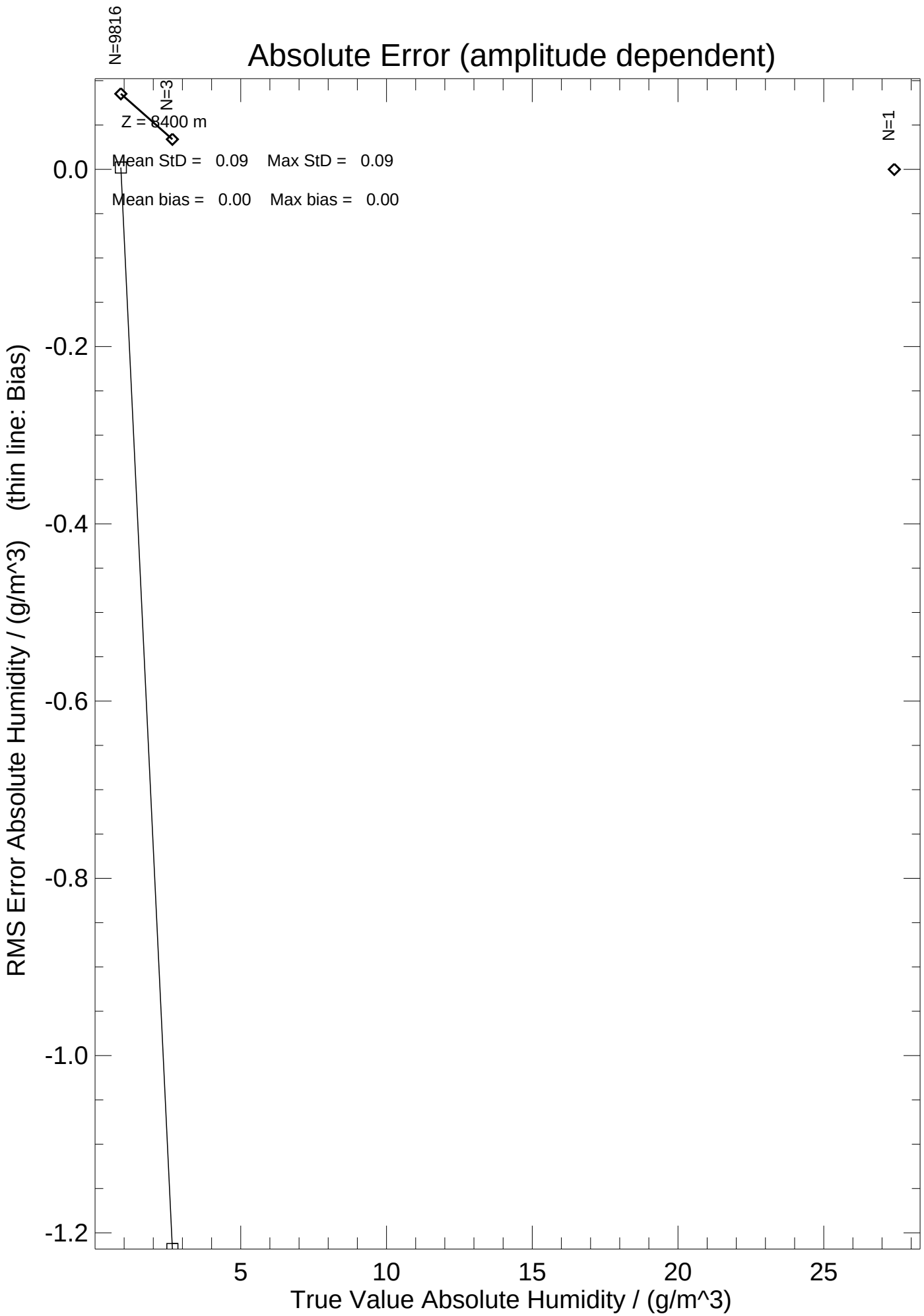

Cor=0.69890 RMS=0.19022 Bias=-0.0008
Z = 8100 m N2=9820
15
10
5
0
0
5
10
15

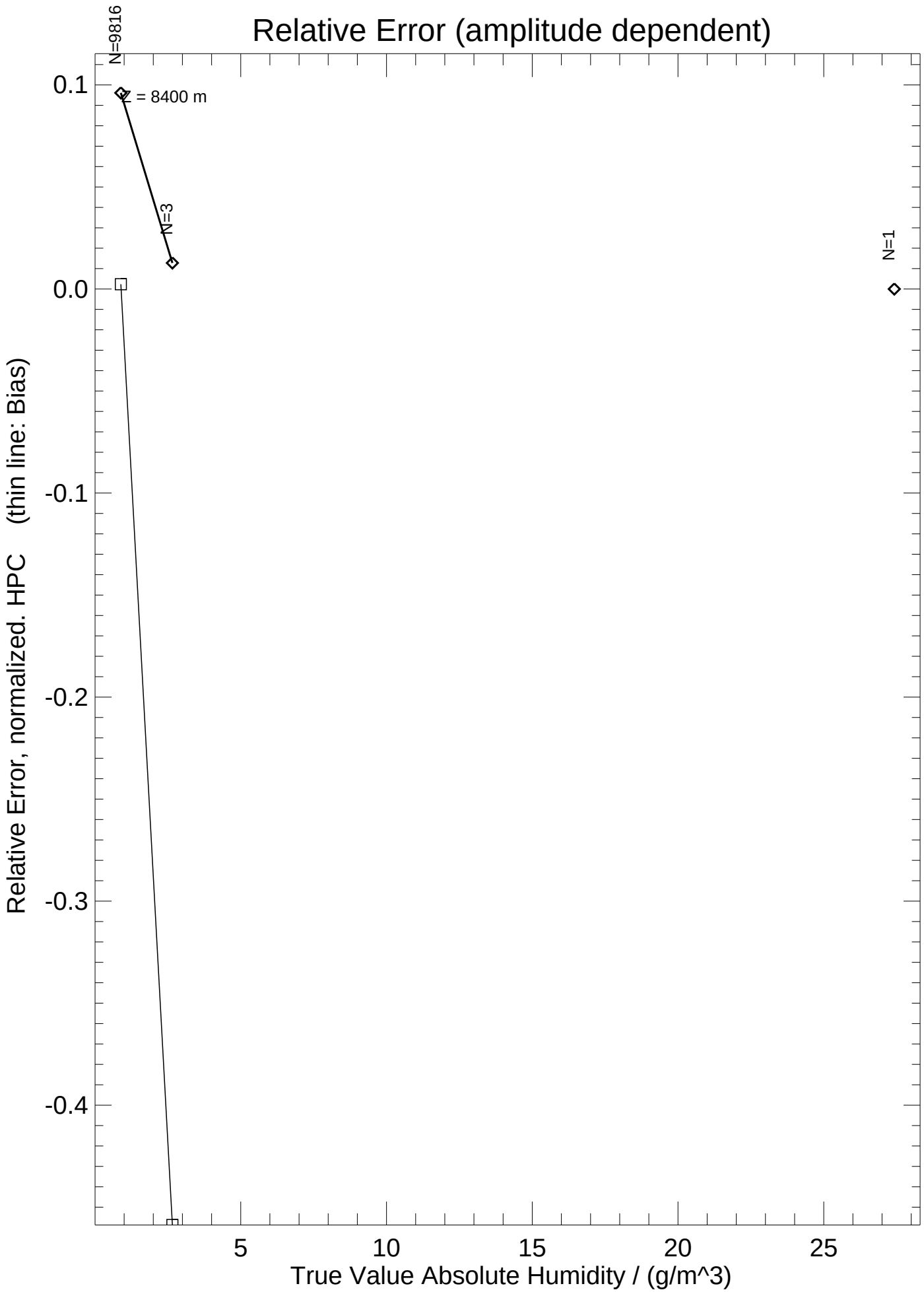

Absolute Error (amplitude dependent)
Z = 8500 m
N=5
Mean StD = 0.23 Max StD = 0.36
Mean bias = 0.22 Max bias = 0.44
N=9793
N=1
N=1
0.4
0.2
0.0
-0.2
-0.4
5
10
15
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

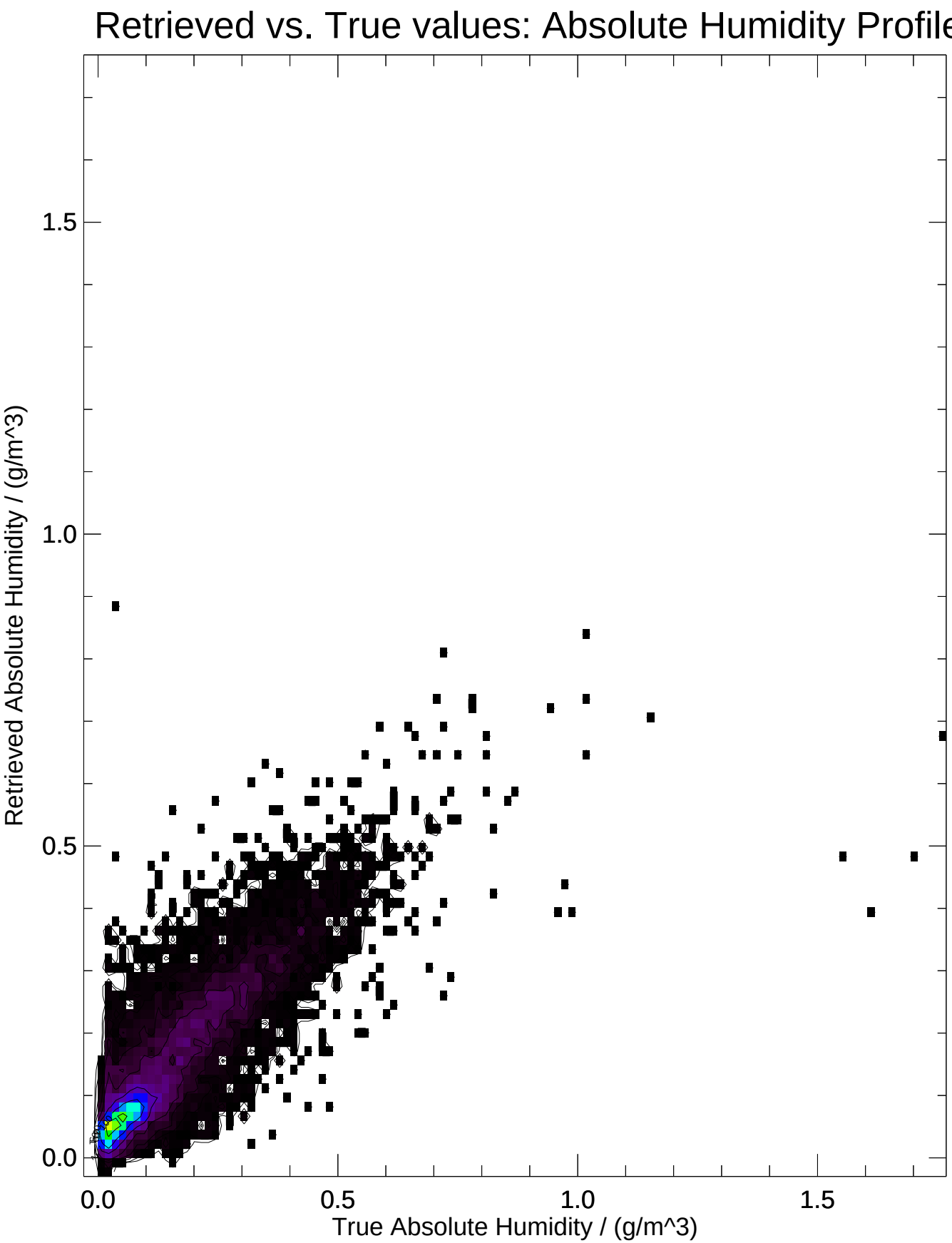

Relative Error (amplitude dependent)
Z = 8200 m
N=25
N=9793
N=1
N=1
0.2
0.1
0.0
-0.1
-0.2
Relative Error, normalized. HPC (thin line: Bias)
5
10
15
True Value Absolute Humidity / (g/m^3)

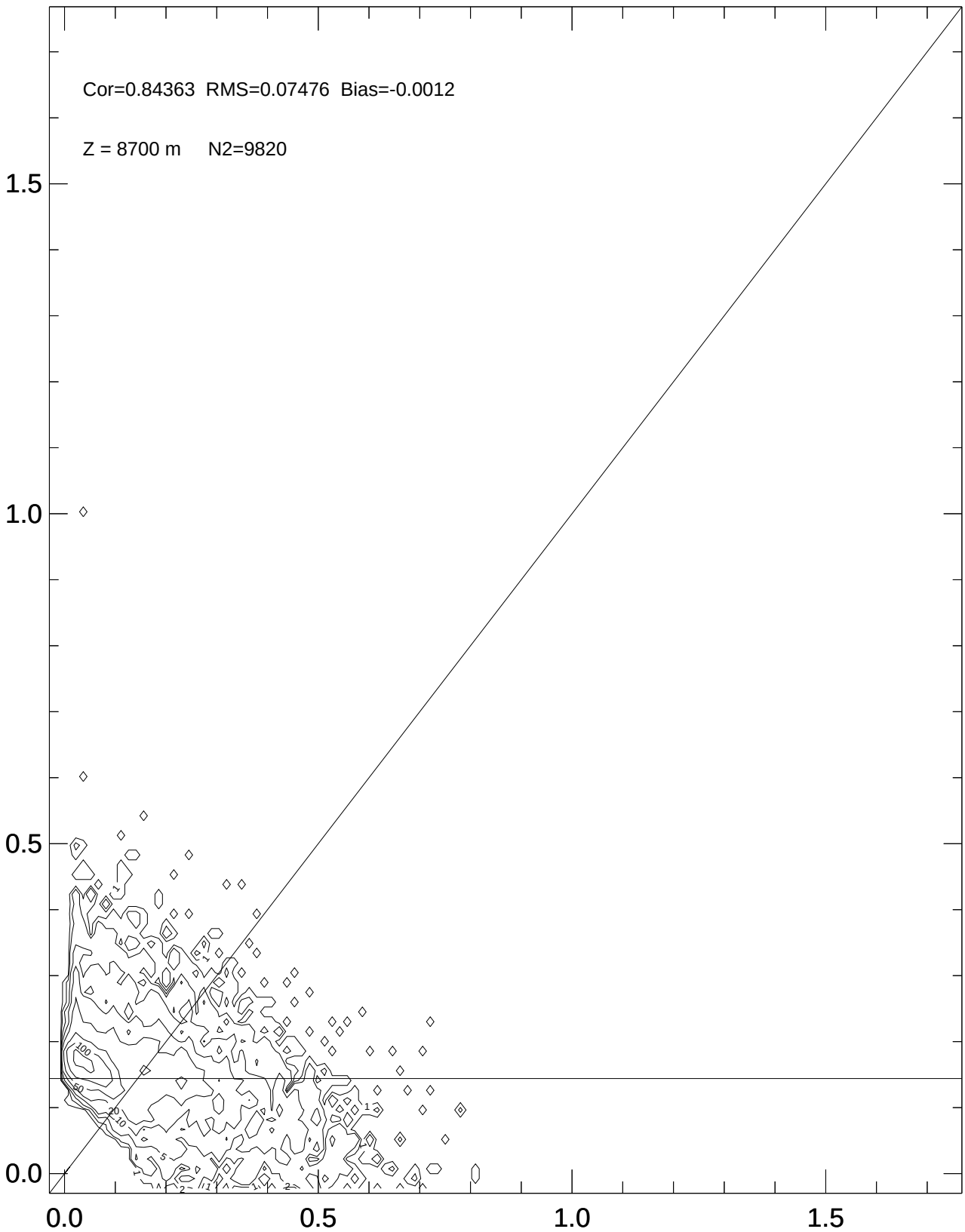

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
5
10
15
20
25

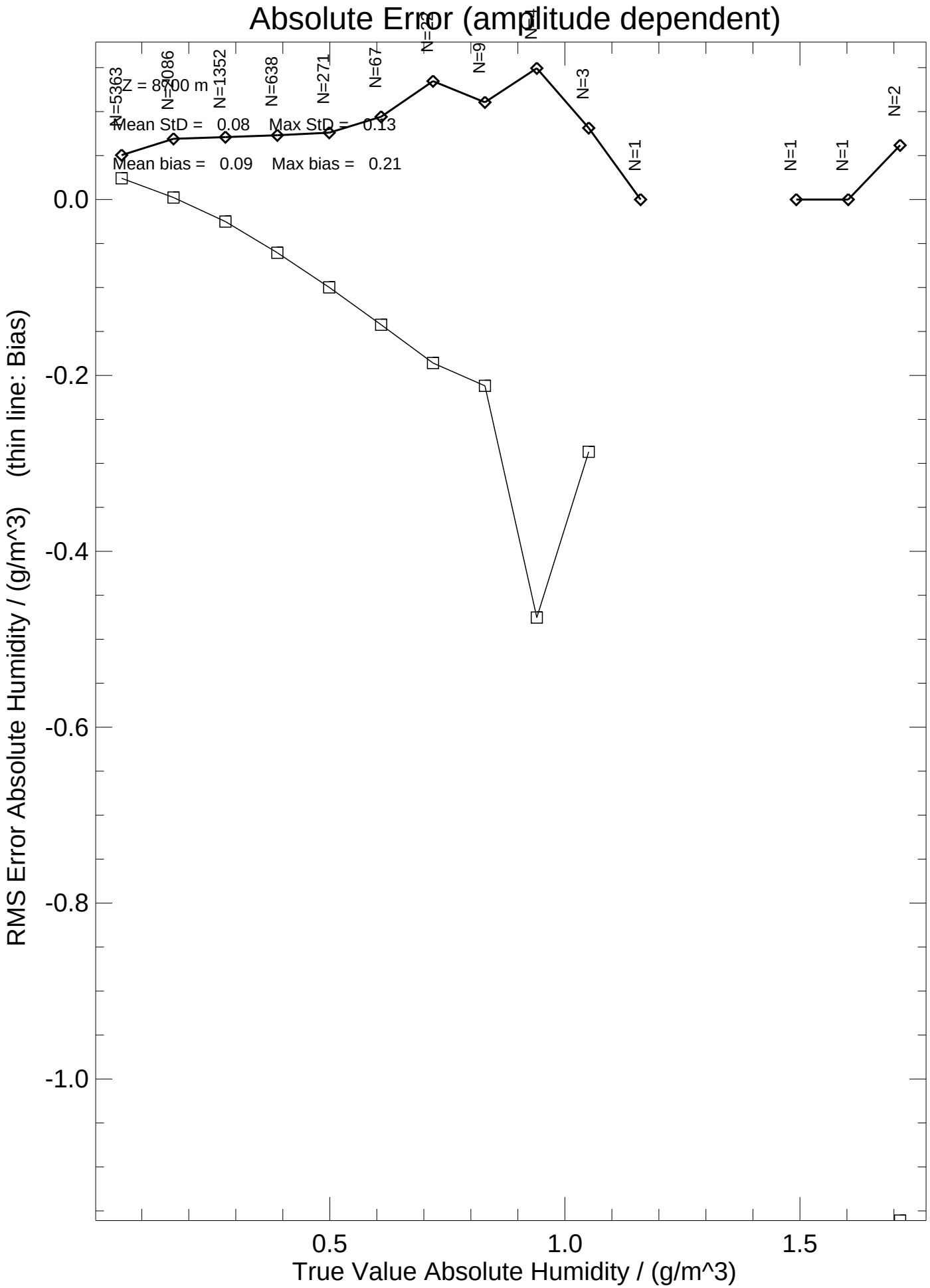

Cor=0.46346 RMS=0.29383 Bias=0.0011
Z = 8400 m N2=9820
0
5
10
15
20
25
0
5
10
15
20
25

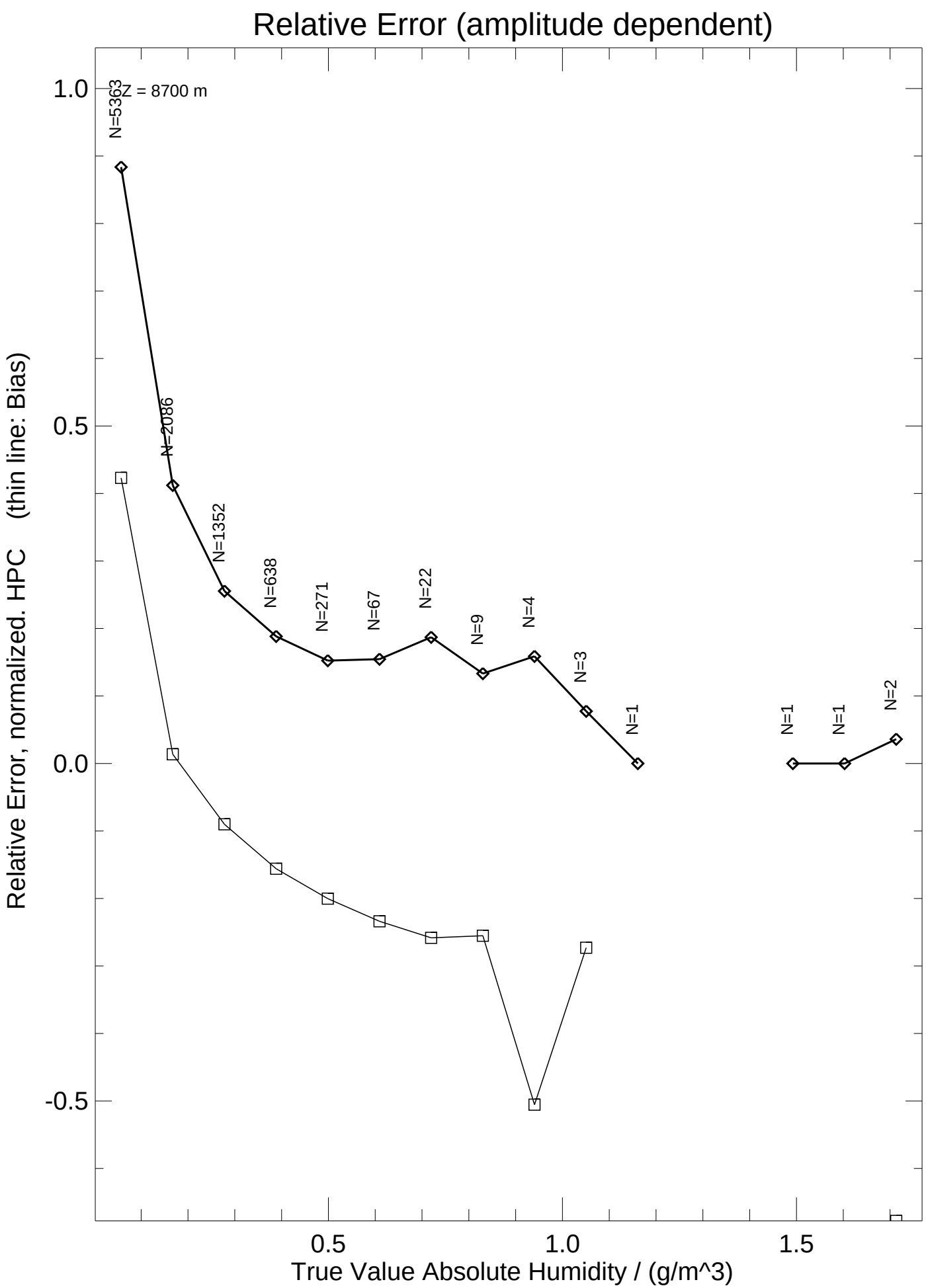

Absolute Error (amplitude dependent)
N=9816
N=3
N=1
Z = 8400 m
Mean StD = 0.09 Max StD = 0.09
Mean bias = 0.00 Max bias = 0.00
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)

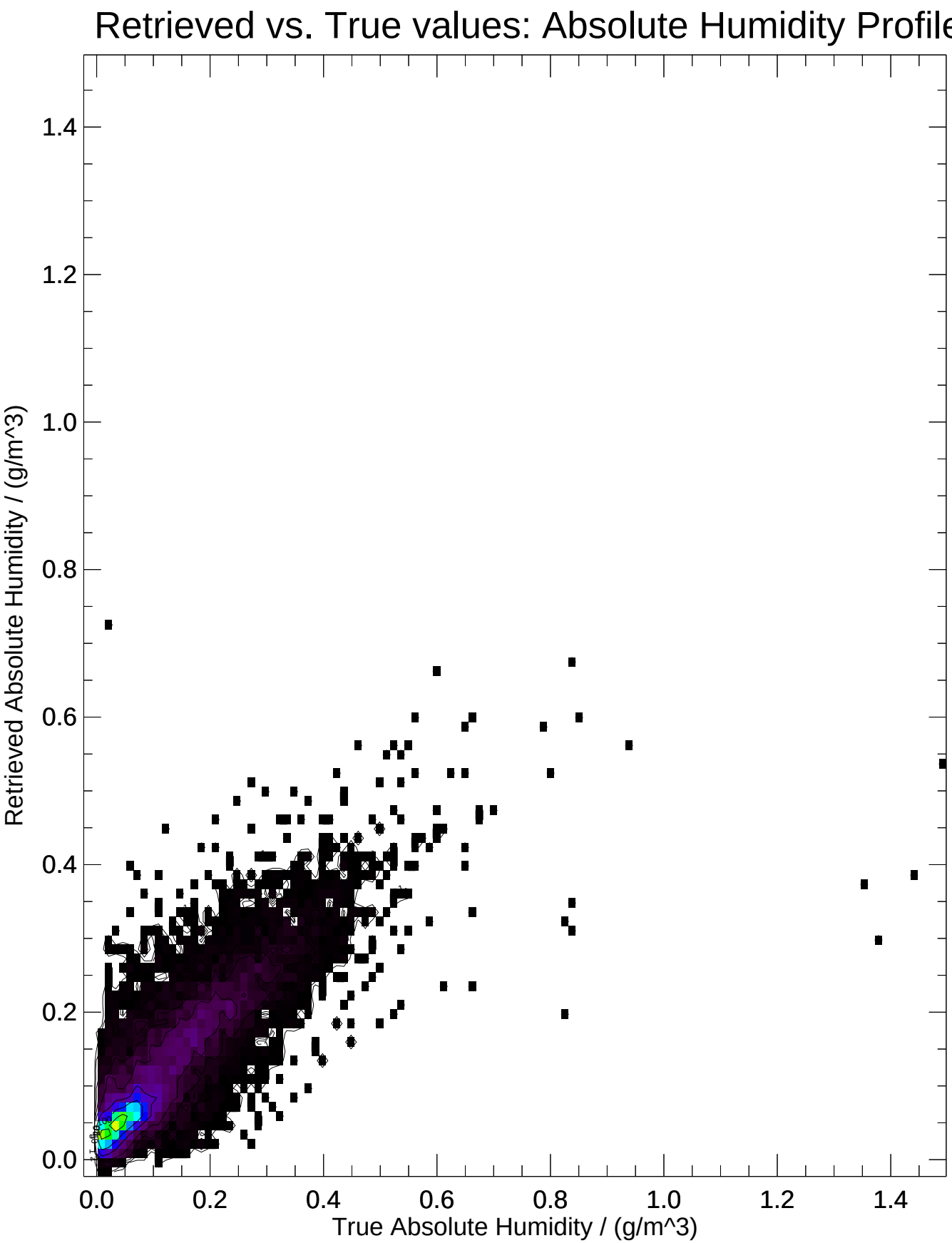

Relative Error (amplitude dependent)
N=9816
Z = 8400 m
N=3
N=1
0.1
0.0
-0.1
-0.2
-0.3
-0.4
Relative Error, normalized. HPC (thin line: Bias)
5
10
15
20
25
True Value Absolute Humidity / (g/m^3)

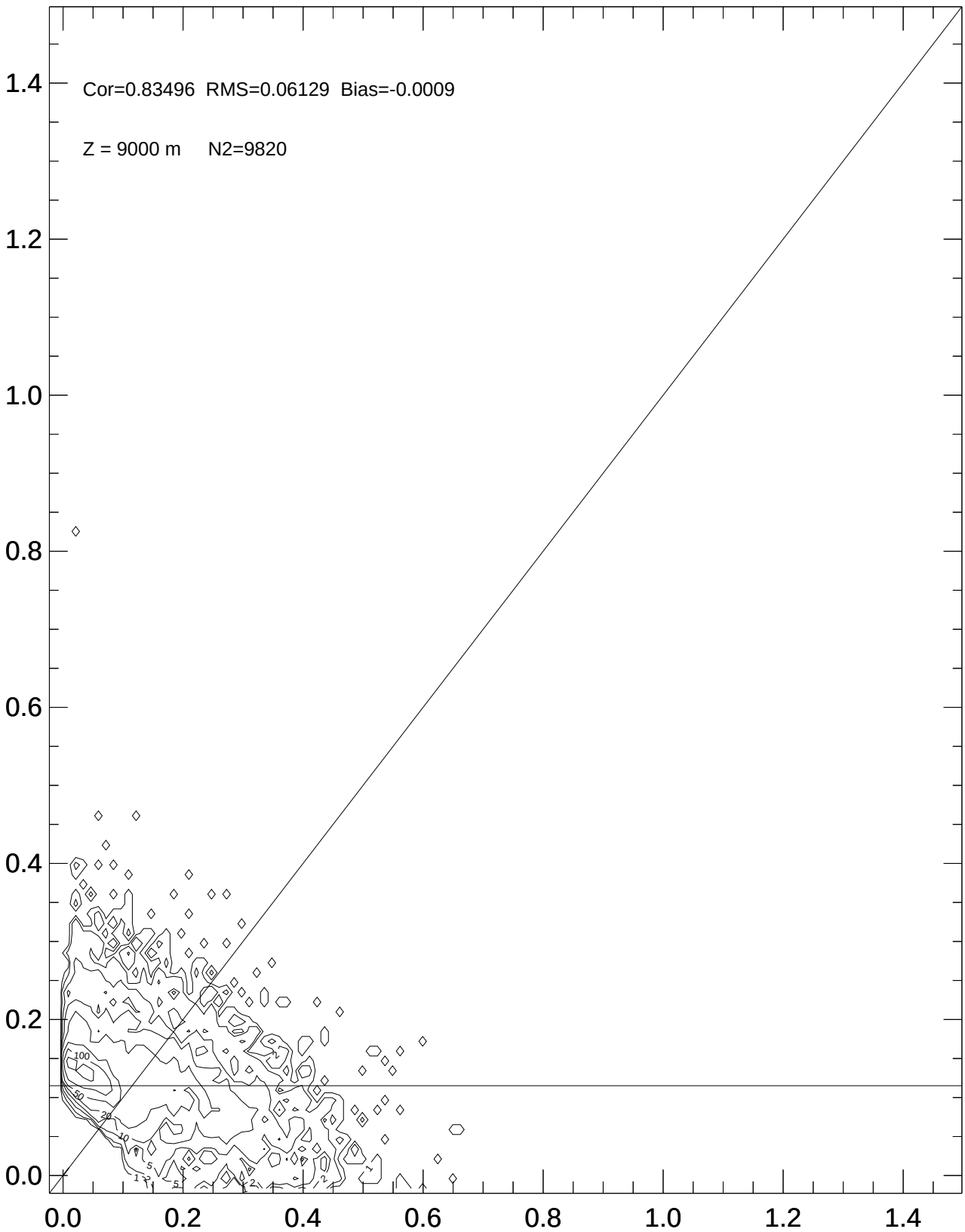

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0.0
0.5
1.0
1.5
0.0
0.5
1.0
1.5

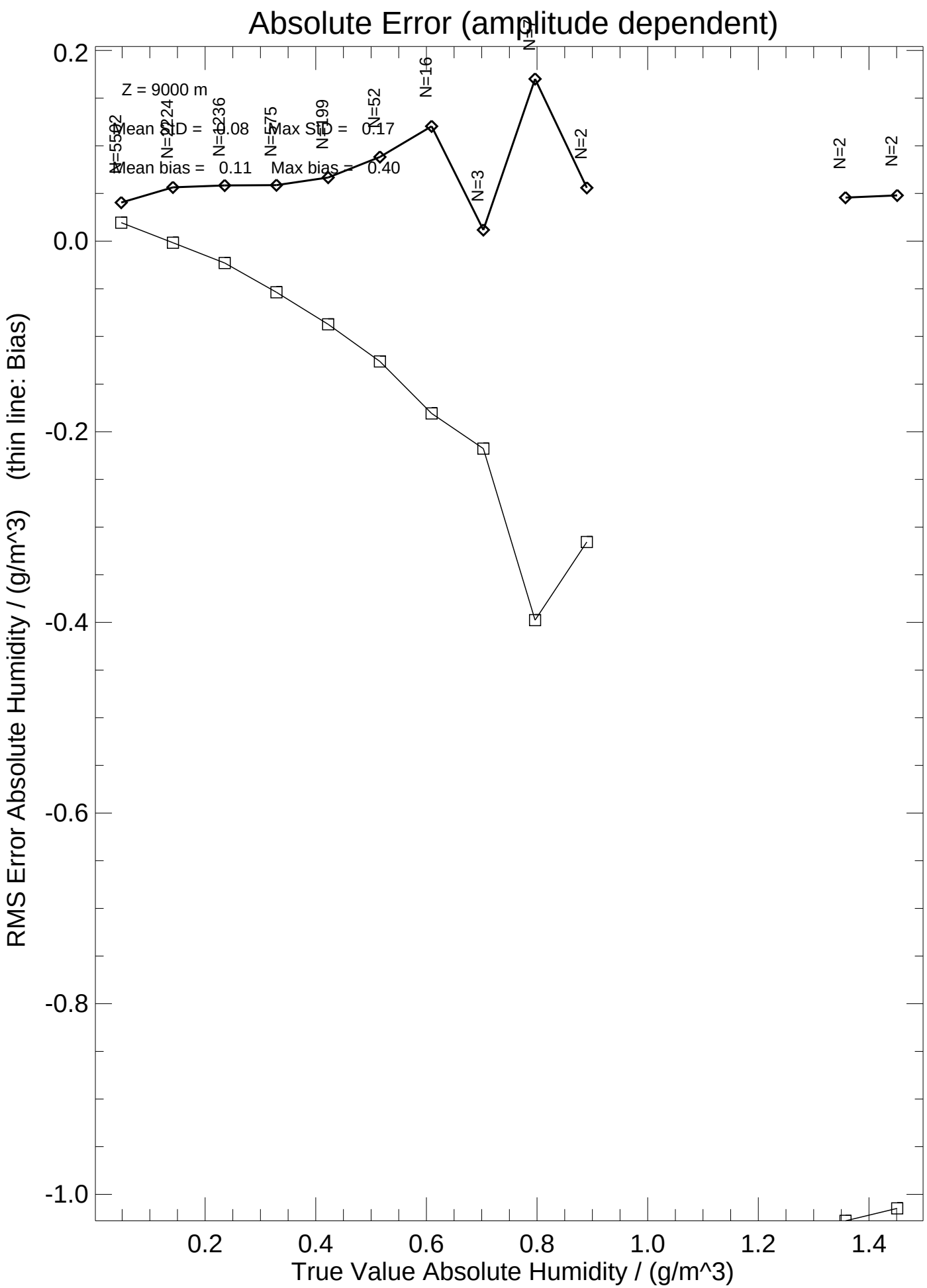

Cor=0.84363 RMS=0.07476 Bias=-0.0012
Z = 8700 m N2=9820
1.5
1.0
0.5
0.0
0.0
0.5
1.0
1.5

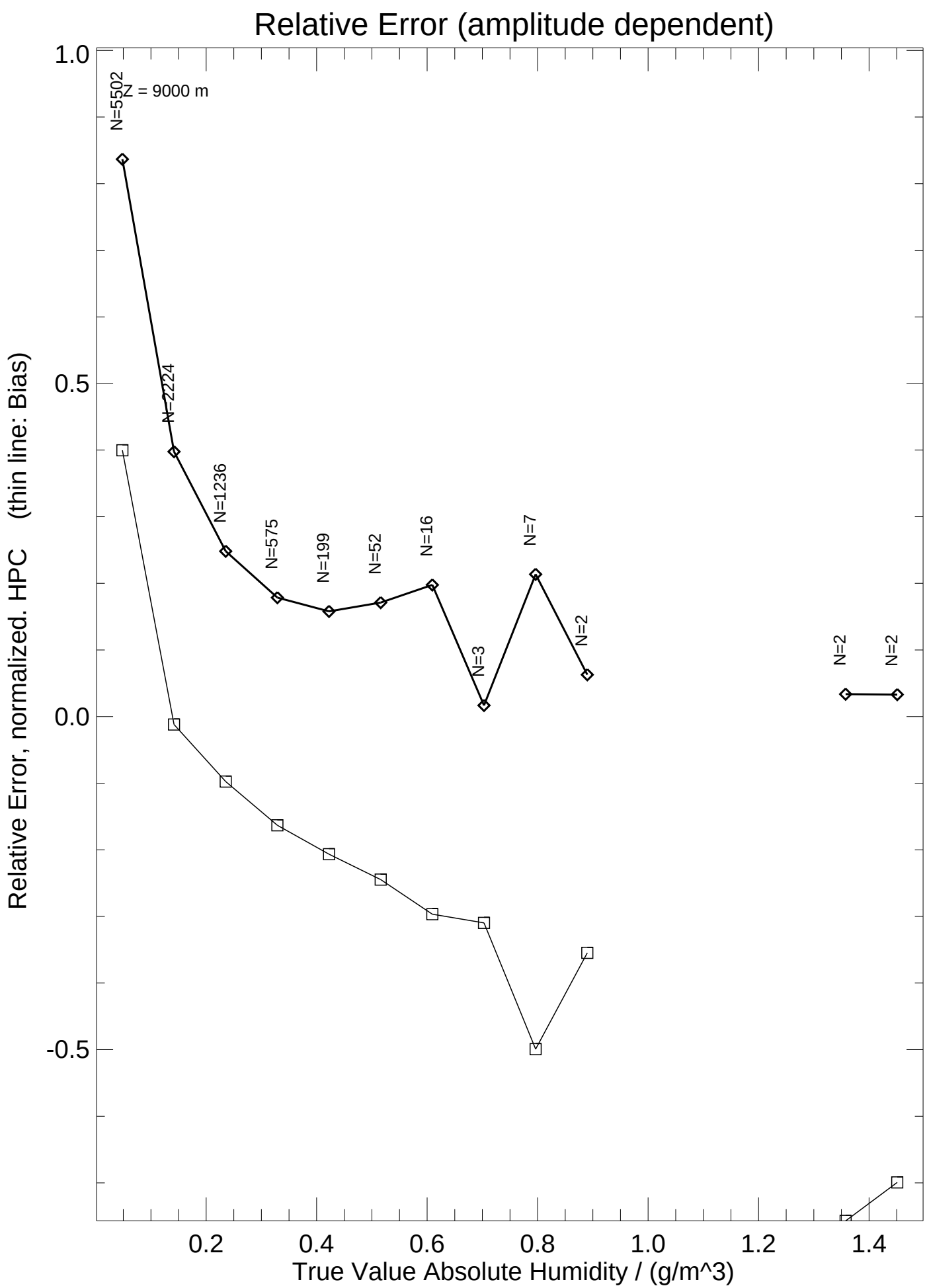

Absolute Error (amplitude dependent)
Z = 8200 m
Mean StD = 0.08 Max StD = 0.13
Mean bias = 0.09 Max bias = 0.21
N=5363
N=2086
N=1352
N=638
N=271
N=67
N=9
N=3
N=1
N=1
N=1
N=2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
0.5
1.0
1.5
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

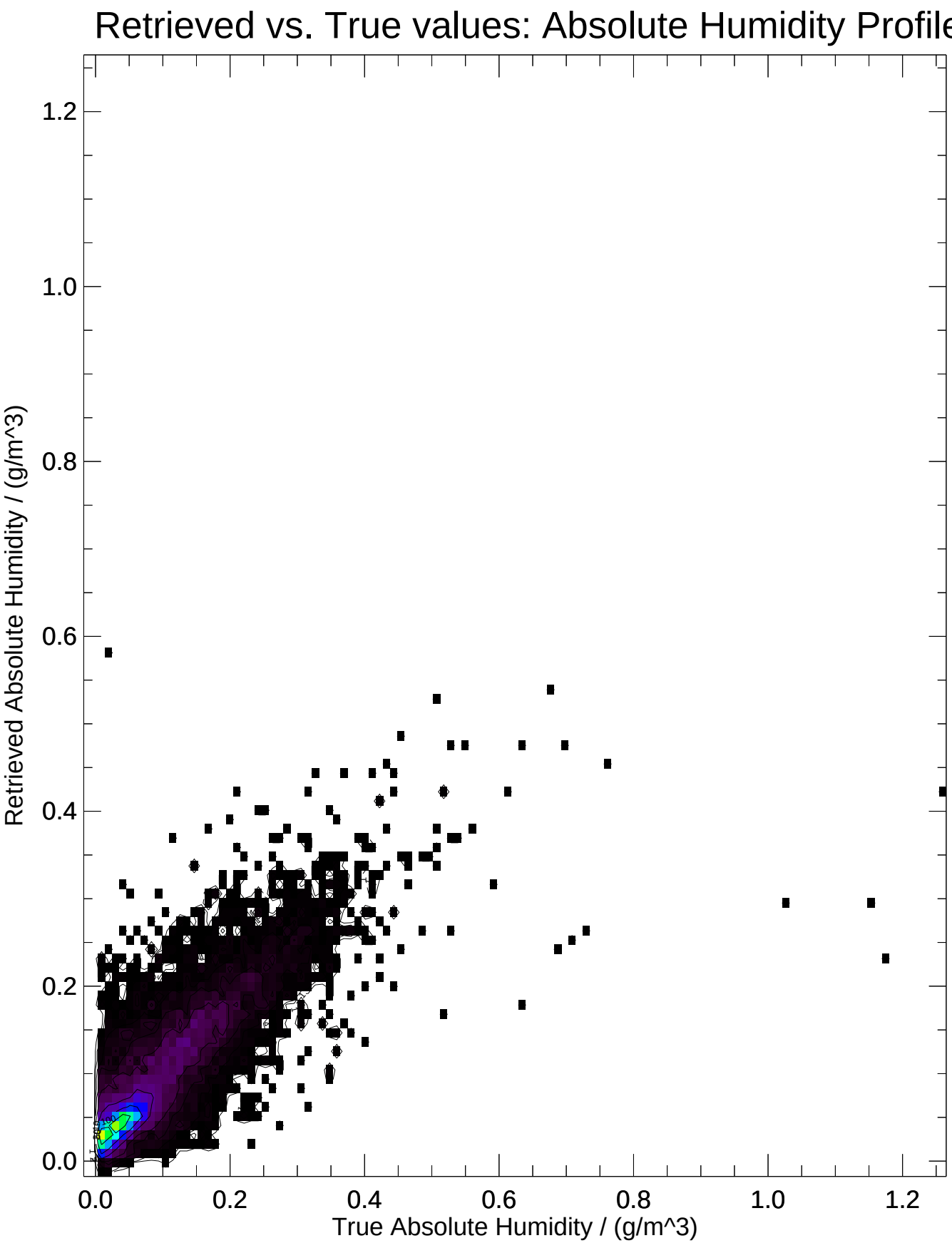

Relative Error (amplitude dependent)
Z = 8700 m
N=5363
N=2086
N=1352
N=638
N=271
N=67
N=22
N=9
N=4
N=3
N=1
N=1
N=1
N=2
1.0
0.5
0.0
-0.5
0.5
1.0
1.5
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

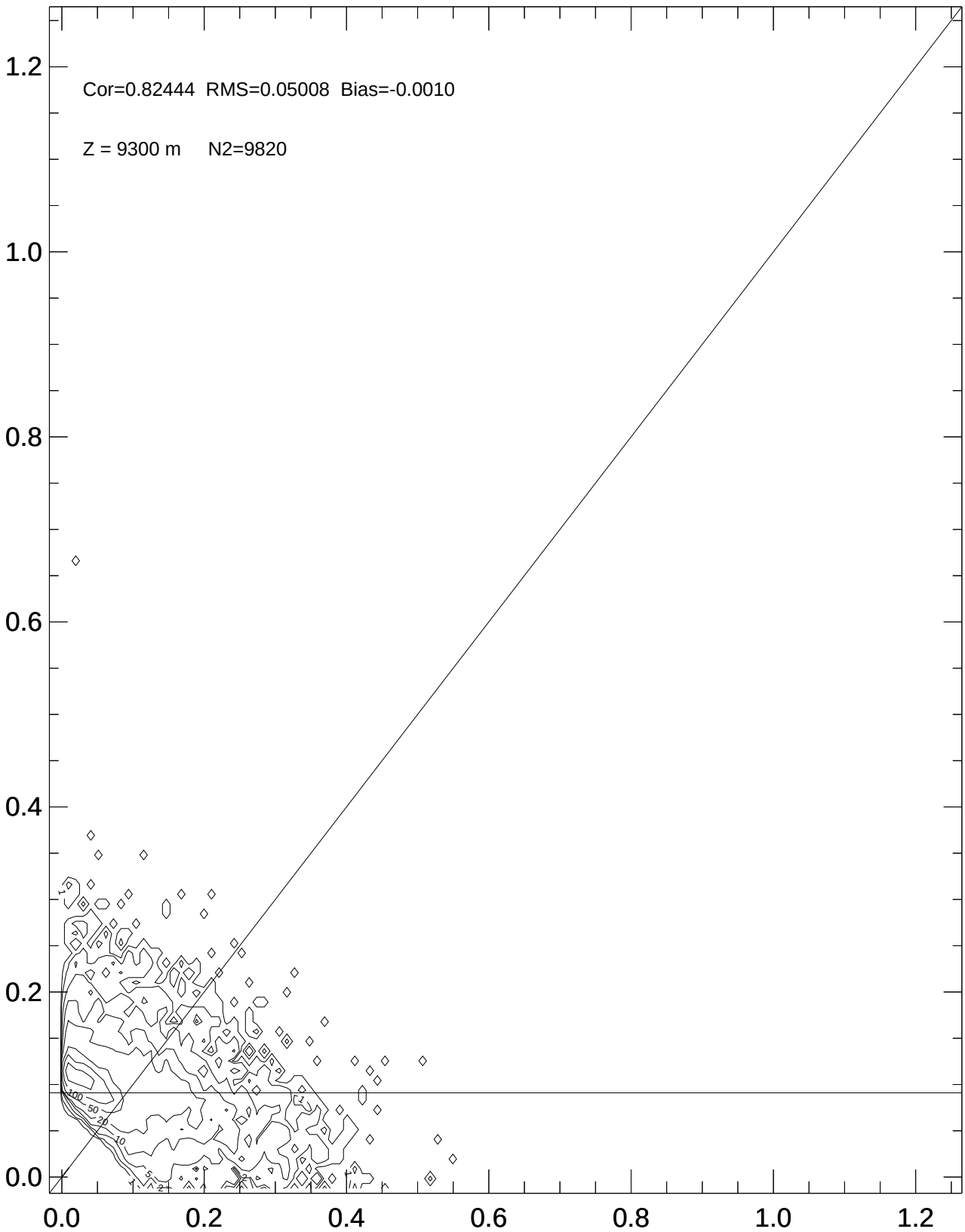

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

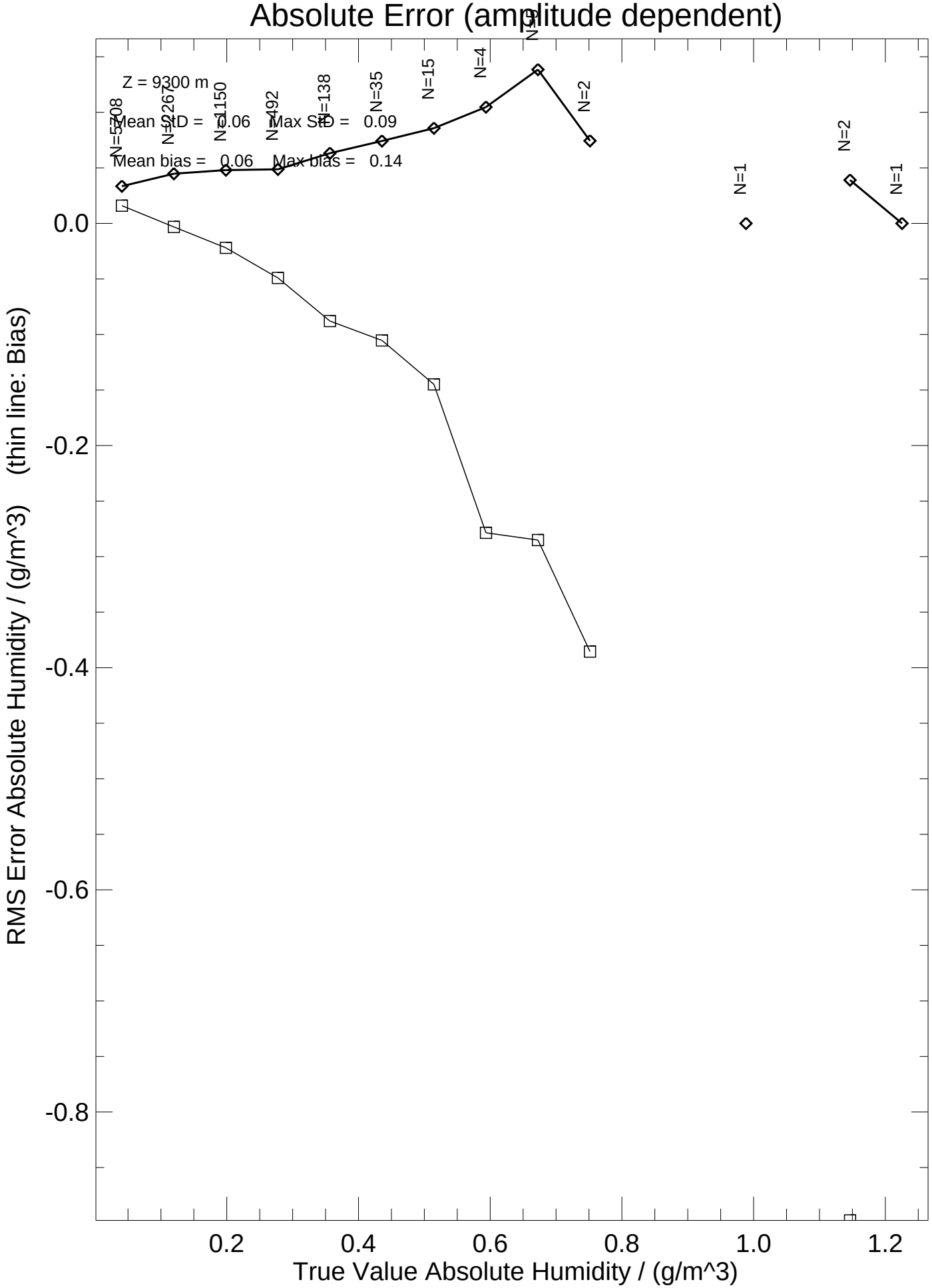

Cor=0.83496 RMS=0.06129 Bias=-0.0009
Z = 9000 m N2=9820
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
100
50
20
10
5
2
1

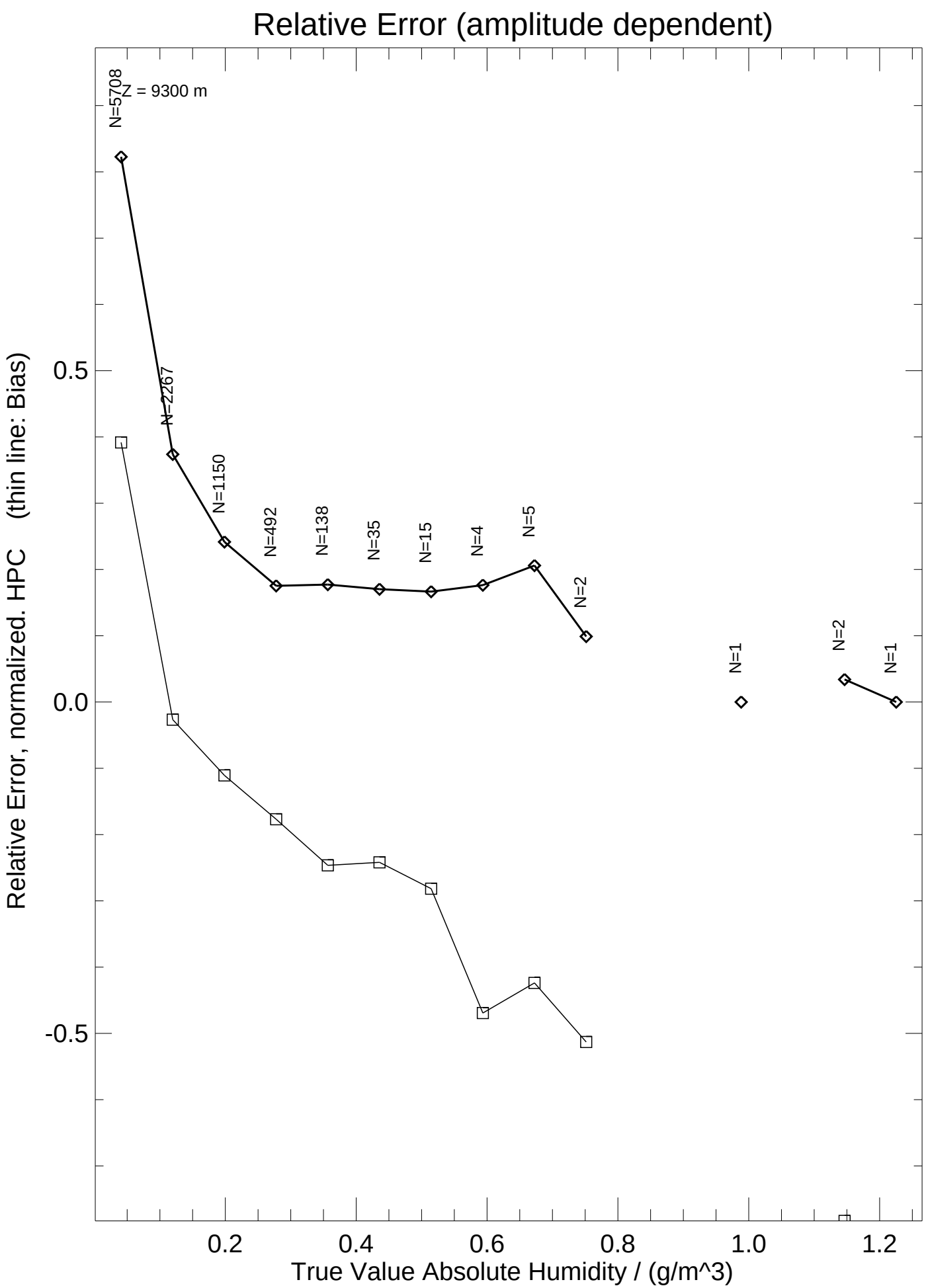

Absolute Error (amplitude dependent)
Z = 9000 m
Mean STD = 0.08 Max STD = 0.17
Mean bias = 0.11 Max bias = 0.40
N=552
N=224
N=236
N=175
N=199
N=52
N=16
N=9
N=3
N=2
N=2
N=2
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

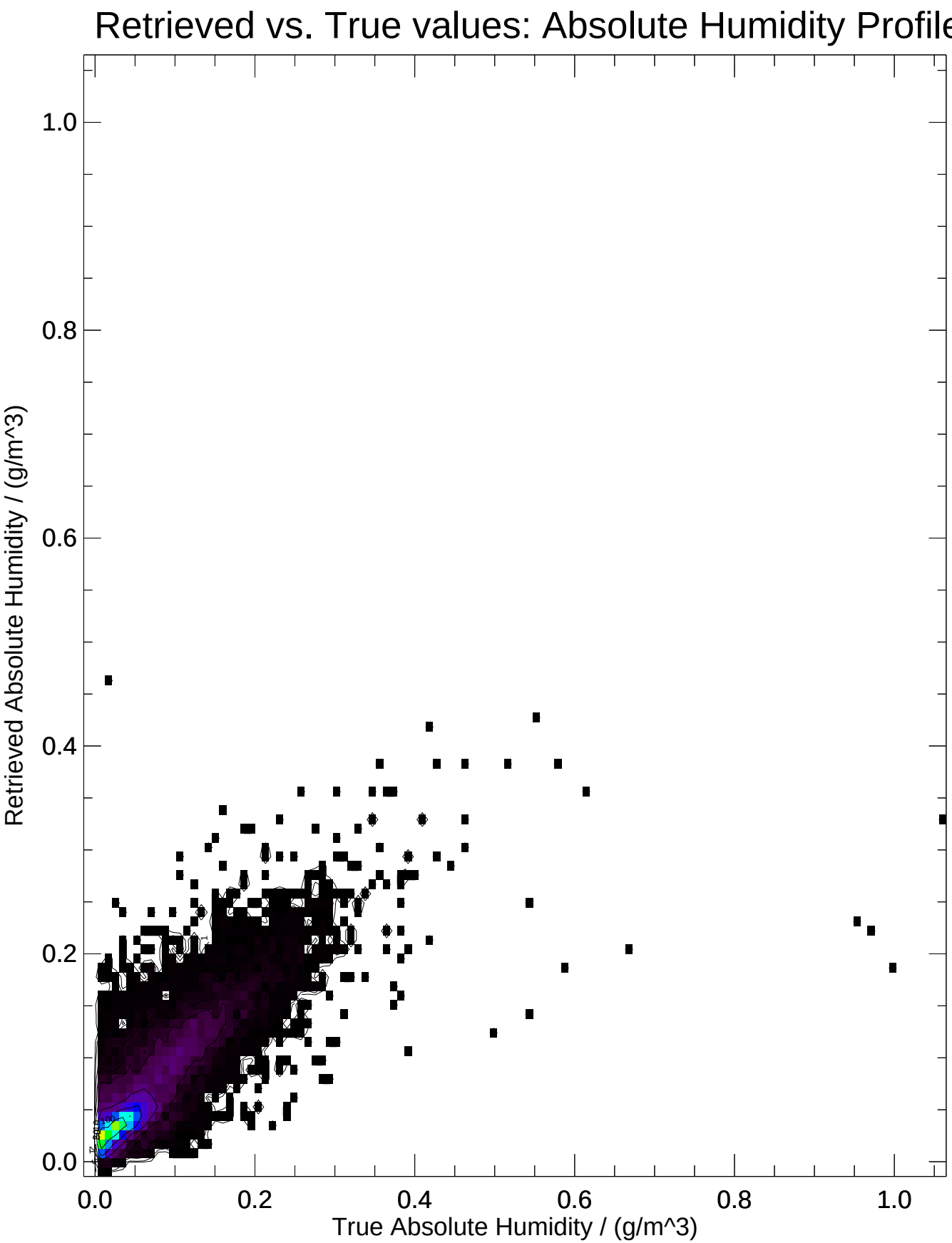

Relative Error (amplitude dependent)
Z = 9000 m
N=5502
N=2224
N=1236
N=575
N=199
N=52
N=16
N=7
N=3
N=2
N=2
N=2
1.0
0.5
0.0
-0.5
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)

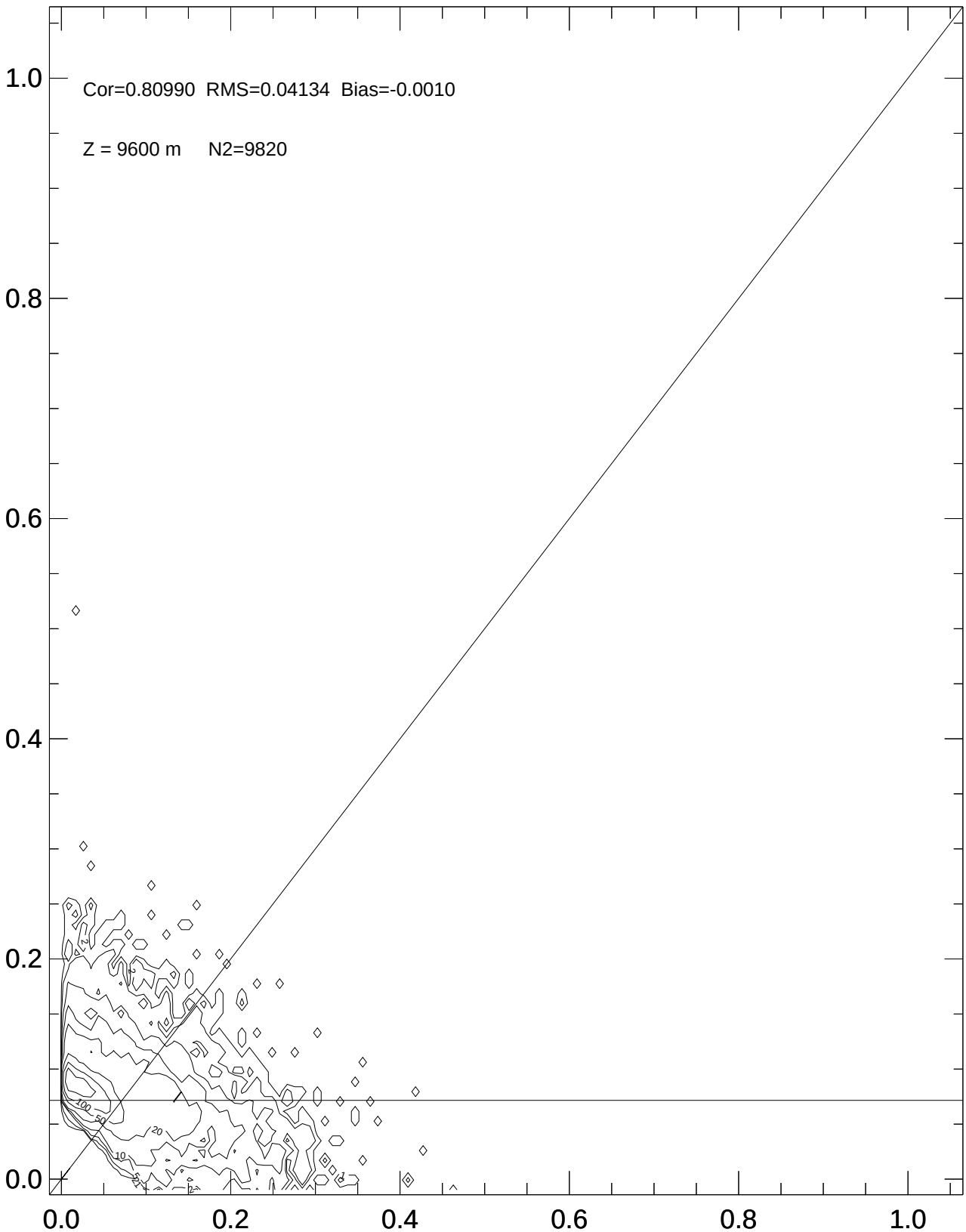

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0.0
0.2
0.4
0.6
0.8
1.0
1.2

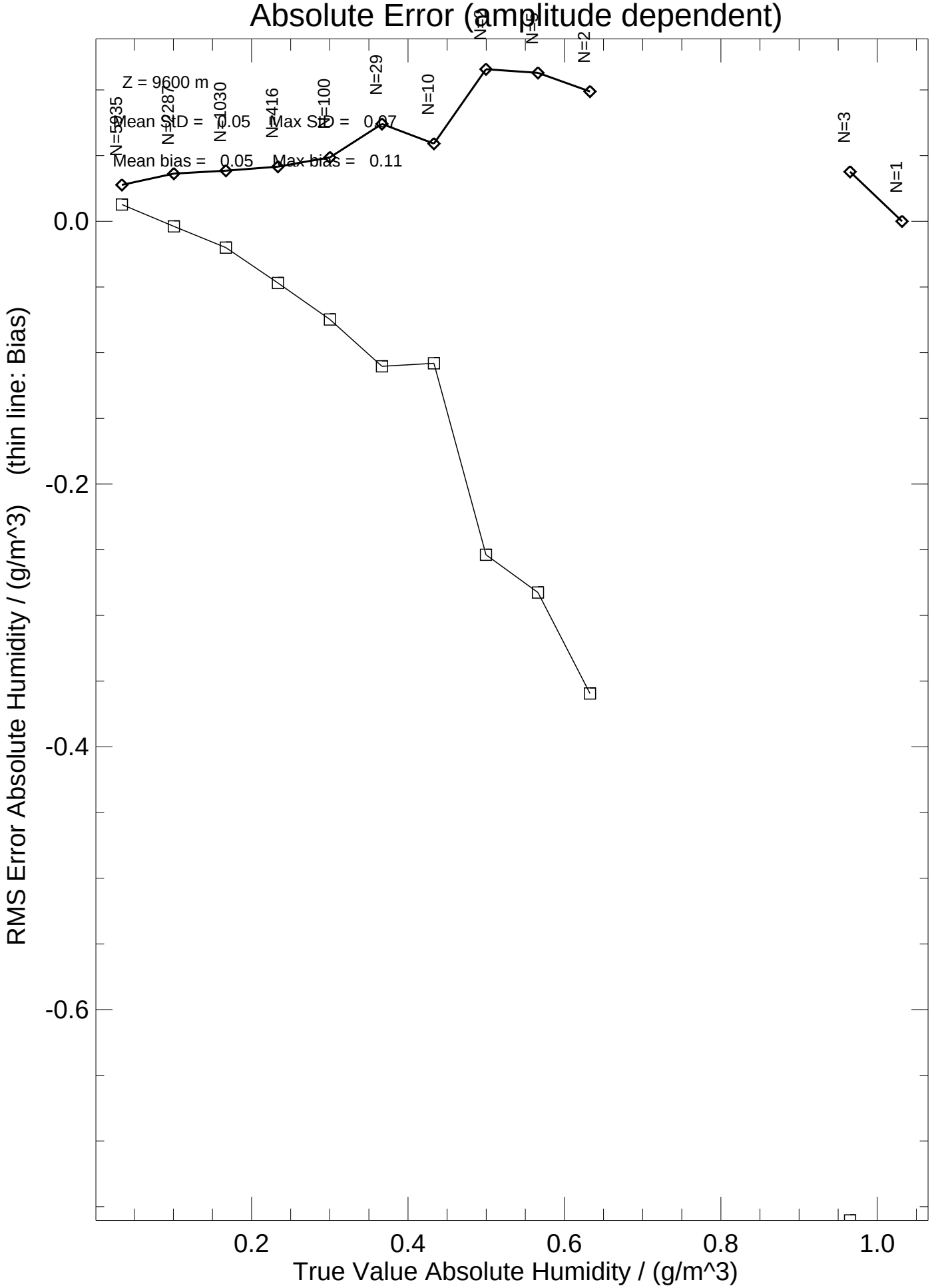

Cor=0.82444 RMS=0.05008 Bias=-0.0010
Z = 9300 m N2=9820
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
100
50
20
10
5
2
1

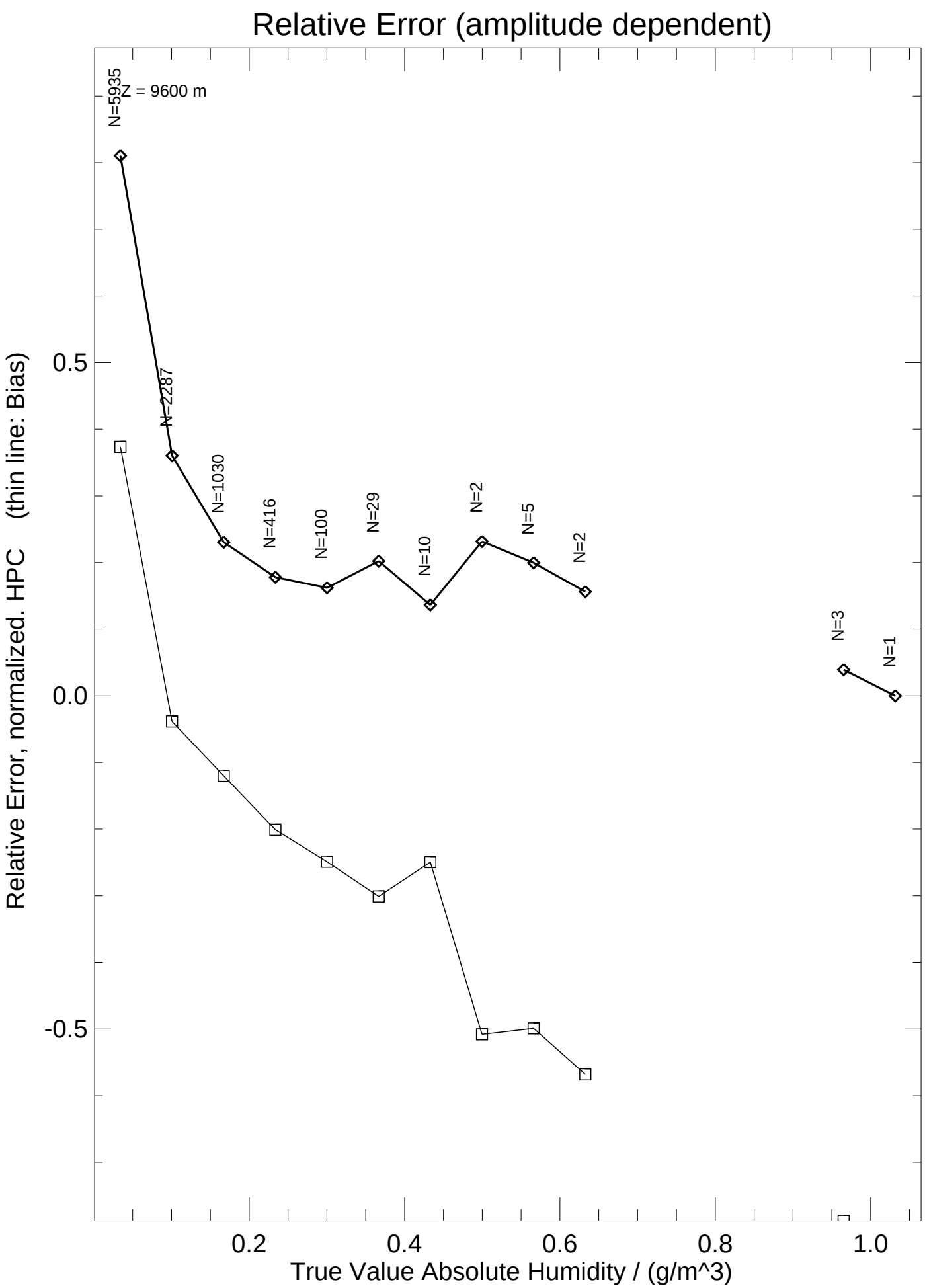

Absolute Error (amplitude dependent)
Z = 9300 m
Mean STD = 0.06 Max STD = 0.09
Mean bias = 0.06 Max bias = 0.14
N=5208
N=2267
N=1150
N=492
N=138
N=35
N=15
N=4
N=2
N=1
N=2
N=1
0.0
-0.2
-0.4
-0.6
-0.8
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
0.2
0.4
0.6
0.8
1.0
1.2
True Value Absolute Humidity / (g/m^3)

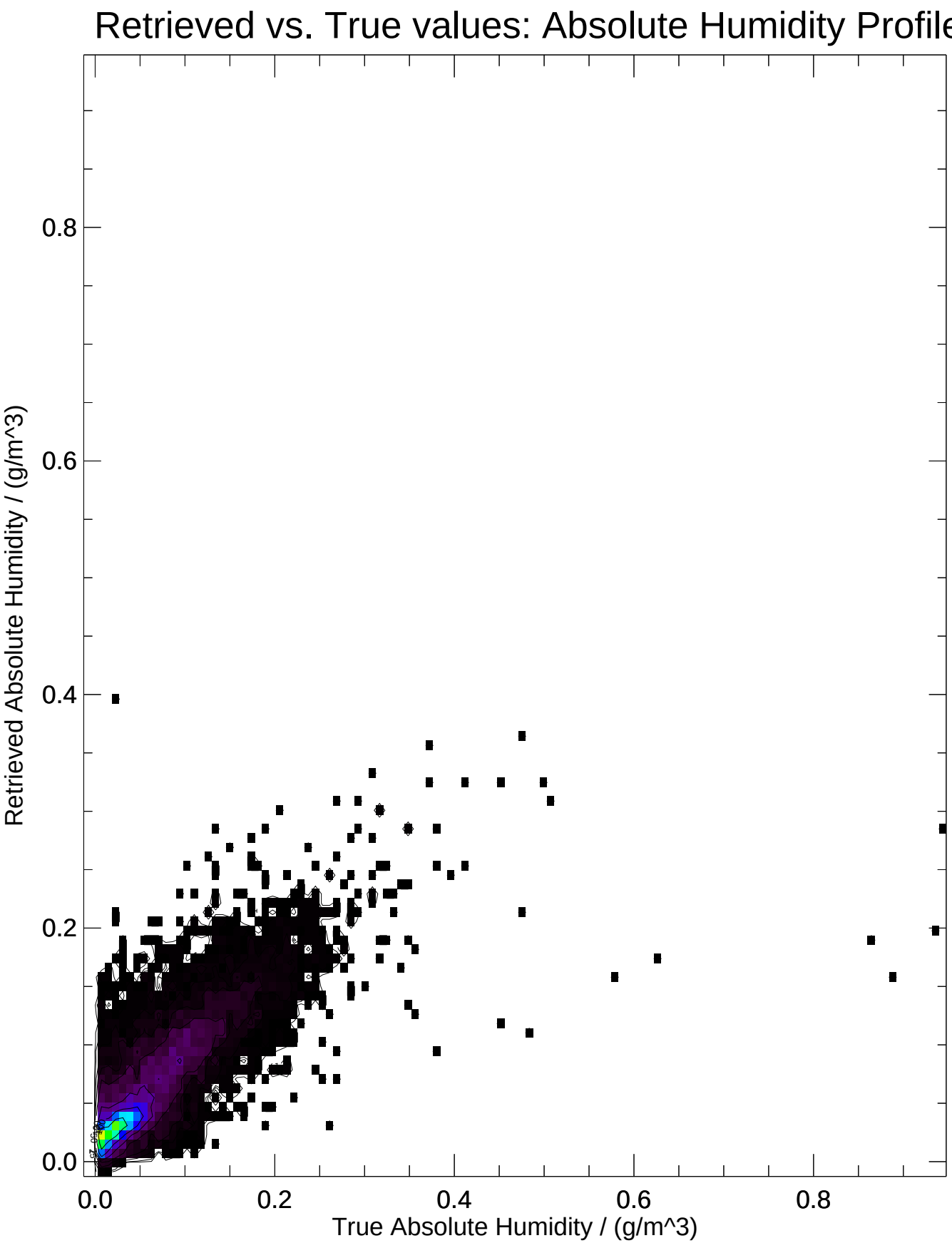

Relative Error (amplitude dependent)
Z = 9300 m
N=5708
N=2267
N=1150
N=492
N=138
N=35
N=15
N=4
N=5
N=2
N=1
N=2
N=1
Relative Error, normalized. HPC (thin line: Bias)
0.5
0.0
-0.5
0.2
0.4
0.6
0.8
1.0
1.2
True Value Absolute Humidity / (g/m^3)

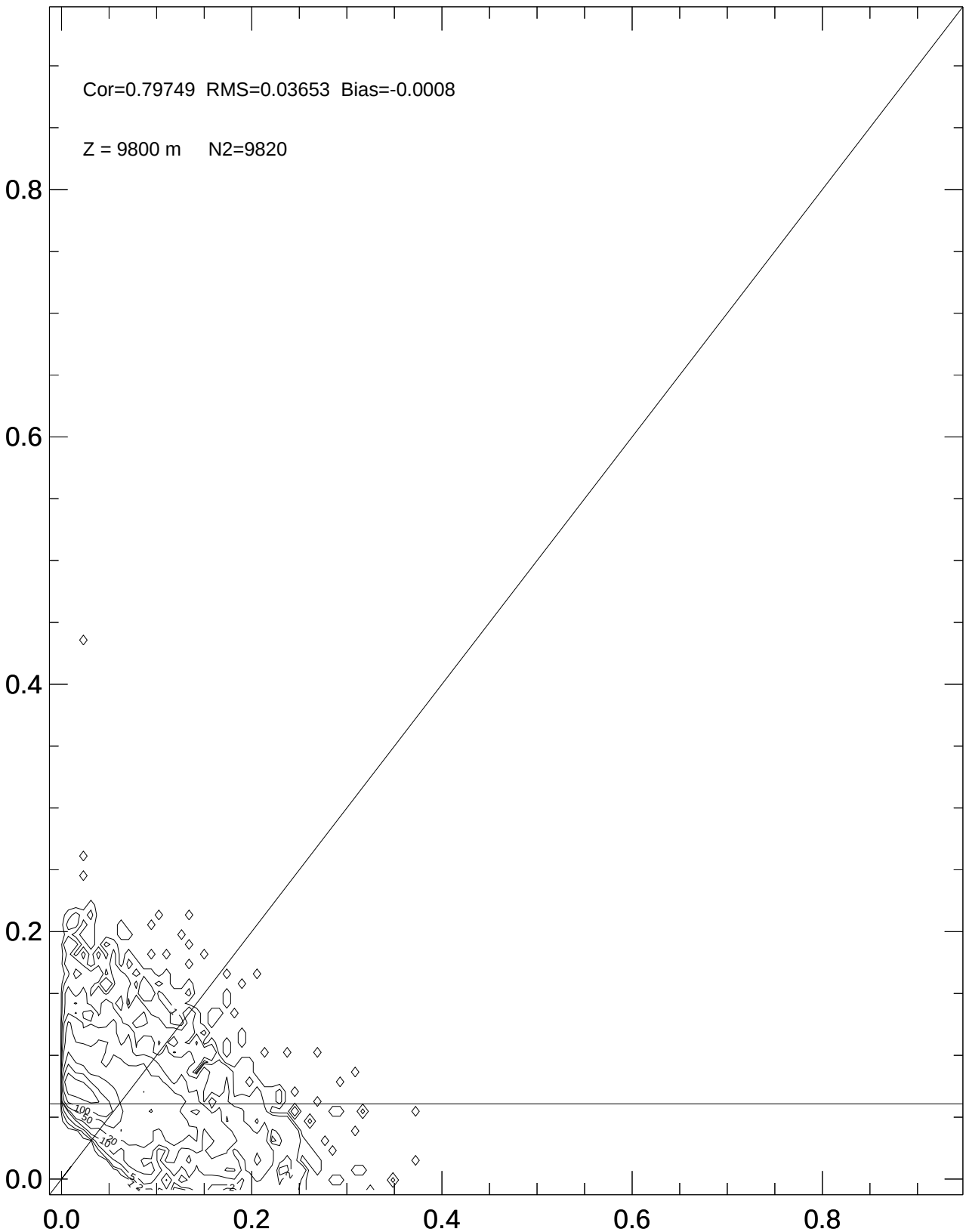

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0.0
0.2
0.4
0.6
0.8
1.0

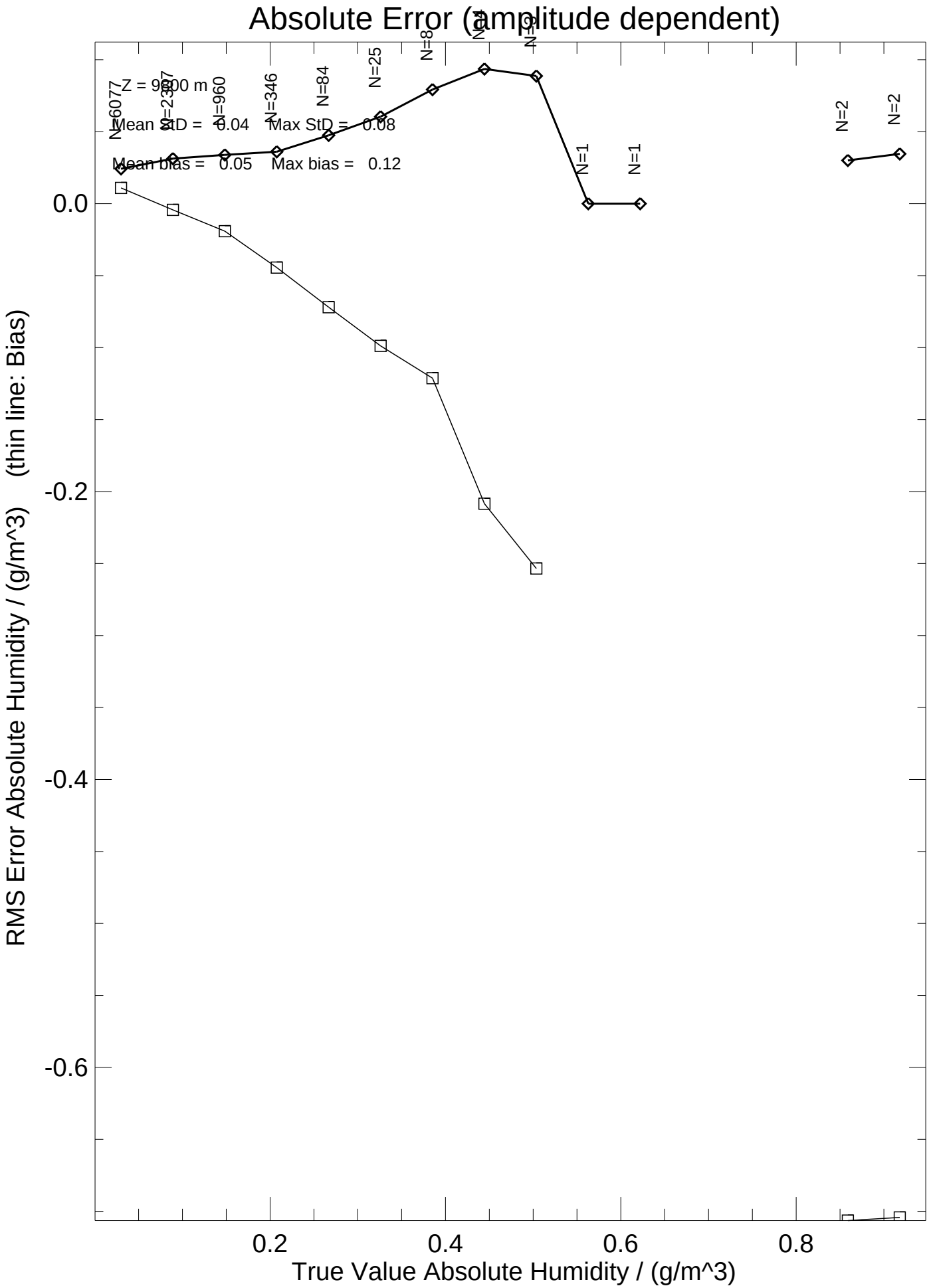

Cor=0.80990 RMS=0.04134 Bias=-0.0010
Z = 9600 m N2=9820
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
100
50
20
10
5
2
1

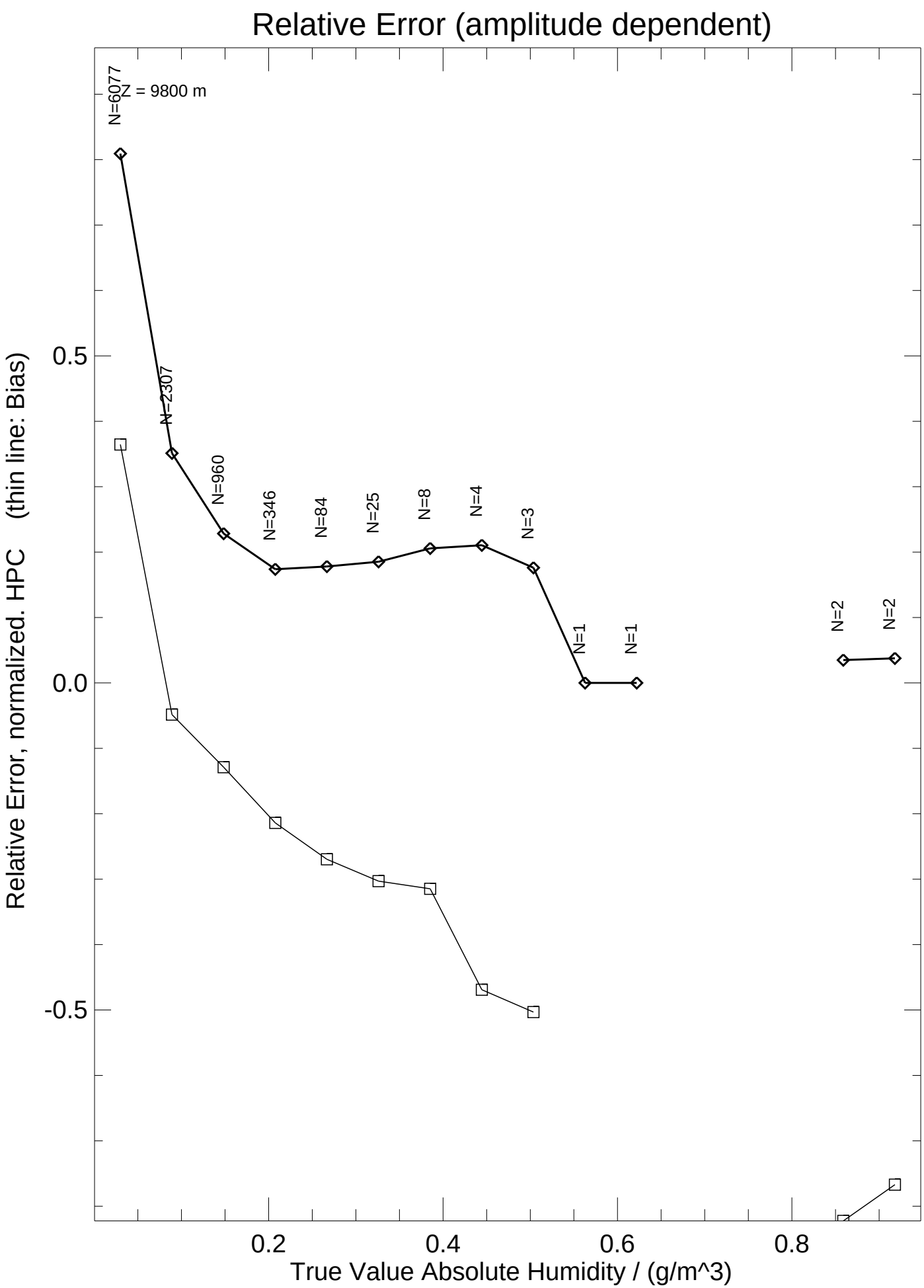

Absolute Error (amplitude dependent)
Z = 9600 m
Mean STD = 0.05 Max STD = 0.07
Mean bias = 0.05 Max bias = 0.11
N=5935
N=2872
N=1030
N=416
N=100
N=29
N=10
N=4
N=3
N=2
N=3
N=1
0.0
-0.2
-0.4
-0.6
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
0.2
0.4
0.6
0.8
1.0
True Value Absolute Humidity / (g/m^3)

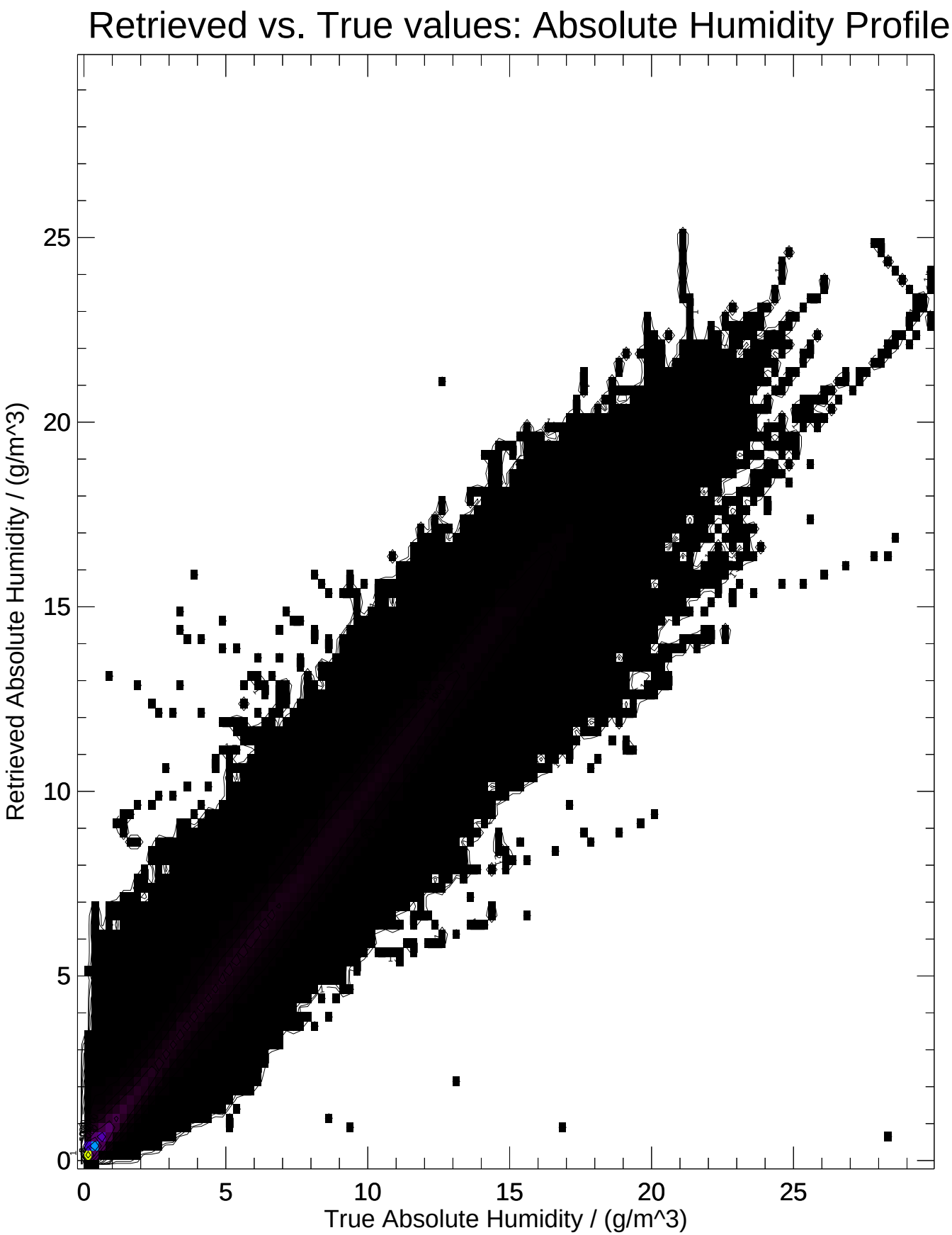

Relative Error (amplitude dependent)
Z = 9600 m
N=5935
N=2287
N=1030
N=416
N=100
N=29
N=10
N=2
N=5
N=2
N=3
N=1
Relative Error, normalized. HPC (thin line: Bias)
0.5
0.0
-0.5
0.2
0.4
0.6
0.8
1.0
True Value Absolute Humidity / (g/m^3)

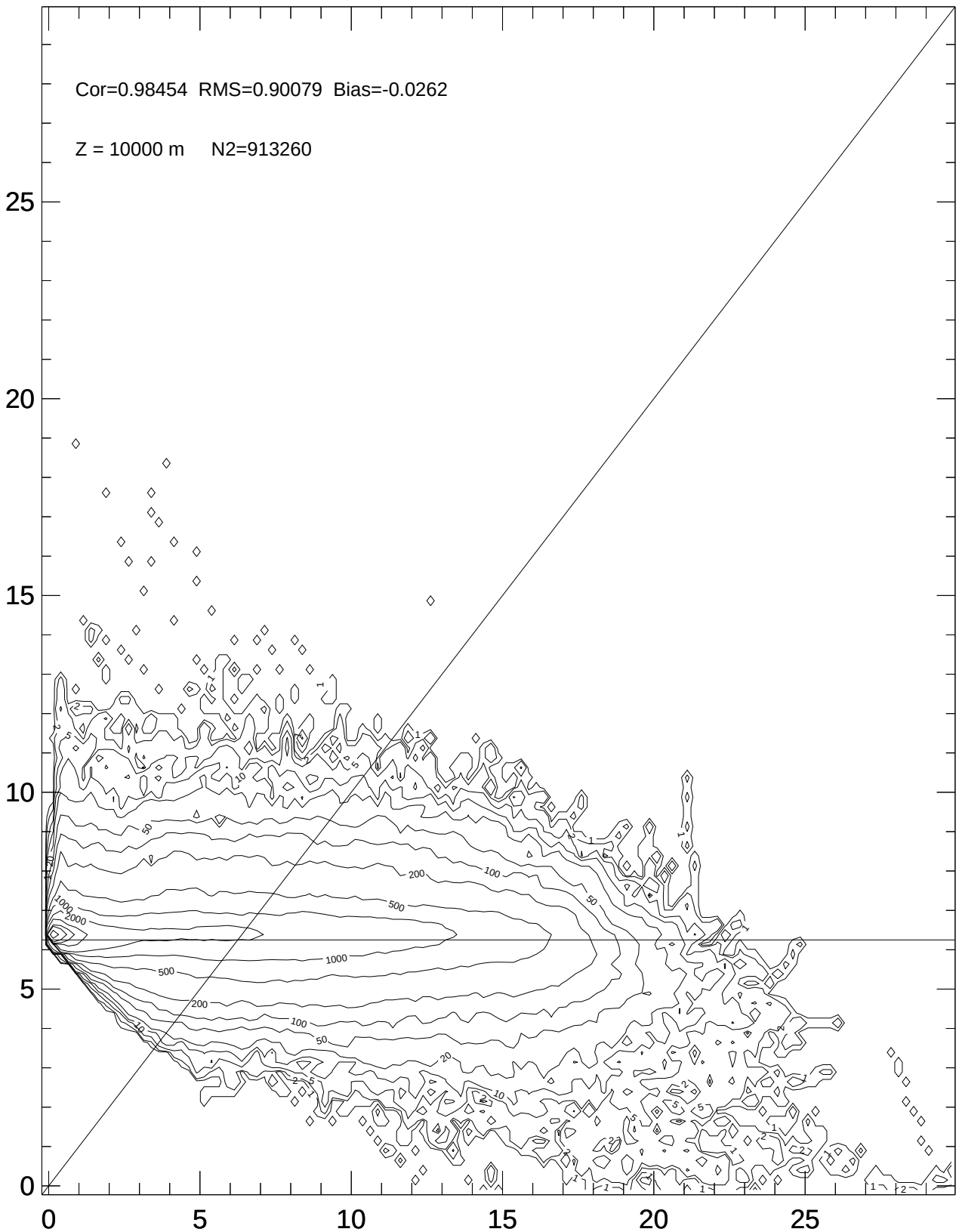

Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0.0
0.2
0.4
0.6
0.8

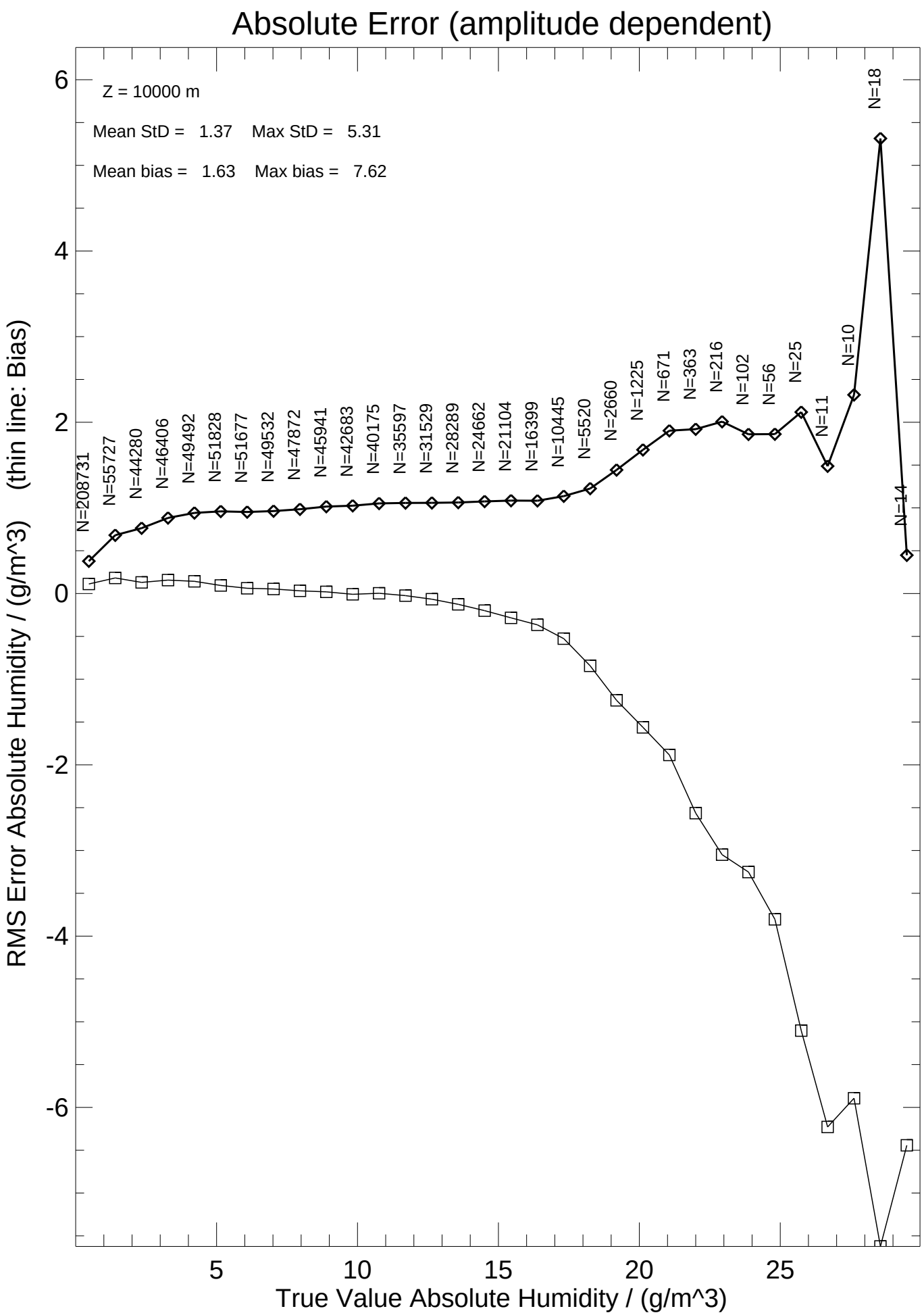

Cor=0.79749 RMS=0.03653 Bias=-0.0008
Z = 9800 m N2=9820
0.0
0.2
0.4
0.6
0.8
0.0
0.2
0.4
0.6
0.8

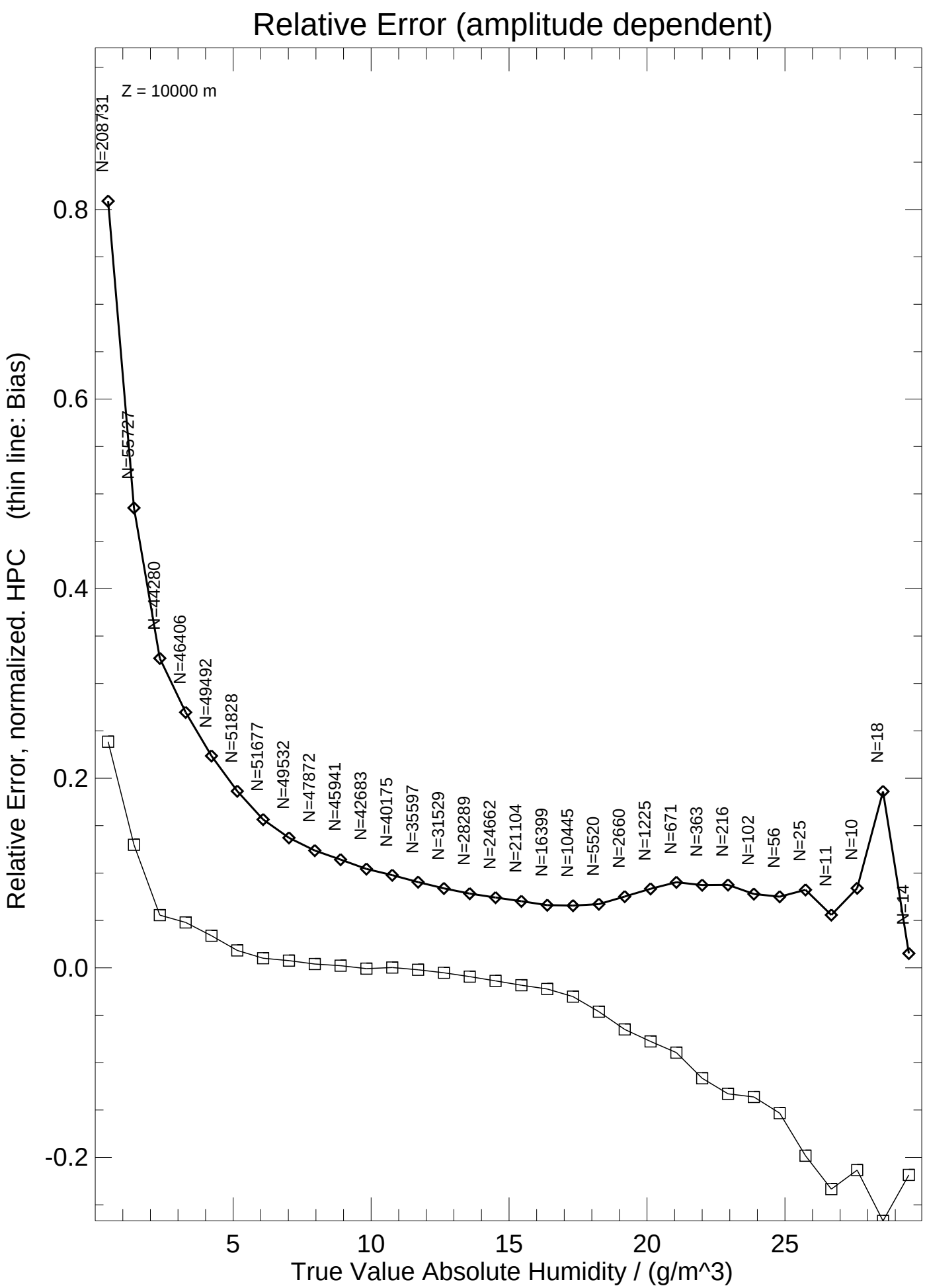

Absolute Error (amplitude dependent)
Z = 9800 m
Mean StD = 0.04 Max StD = 0.08
Mean bias = 0.05 Max bias = 0.12
N=6077
N=2387
N=960
N=346
N=84
N=25
N=8
N=3
N=1
N=1
N=2
N=2
0.0
-0.2
-0.4
-0.6
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
0.2
0.4
0.6
0.8
True Value Absolute Humidity / (g/m^3)


Relative Error (amplitude dependent)
Z = 9800 m
N=6077
N=2307
N=960
N=346
N=84
N=25
N=8
N=4
N=3
N=1
N=1
N=2
N=2
Relative Error, normalized. HPC (thin line: Bias)
0.5
0.0
-0.5
0.2
0.4
0.6
0.8
True Value Absolute Humidity / (g/m^3)


Retrieved vs. True values: Absolute Humidity Profile
Retrieved Absolute Humidity / (g/m^3)
True Absolute Humidity / (g/m^3)
0
5
10
15
20
25


Cor=0.98454 RMS=0.90079 Bias=-0.0262
Z = 10000 m N2=913260
0
5
10
15
20
25


Absolute Error (amplitude dependent)
Z = 10000 m
Mean StD = 1.37 Max StD = 5.31
Mean bias = 1.63 Max bias = 7.62
N=208731
N=55727
N=44280
N=46406
N=49492
N=51828
N=51677
N=49532
N=47872
N=45941
N=42683
N=40175
N=35597
N=31529
N=28289
N=24662
N=21104
N=16399
N=10445
N=5520
N=2660
N=1225
N=671
N=363
N=216
N=102
N=56
N=25
N=11
N=10
N=18
N=14
RMS Error Absolute Humidity / (g/m^3) (thin line: Bias)
True Value Absolute Humidity / (g/m^3)
6
4
2
0
-2
-4
-6
5
10
15
20
25


Relative Error (amplitude dependent)
Z = 10000 m
N=208731
N=55727
N=44280
N=46406
N=49492
N=51828
N=51677
N=49532
N=47872
N=45941
N=42683
N=40175
N=35597
N=31529
N=28289
N=24662
N=21104
N=16399
N=10445
N=5520
N=2660
N=1225
N=671
N=363
N=216
N=102
N=56
N=25
N=11
N=10
N=18
N=14
0.8
0.6
0.4
0.2
0.0
-0.2
5
10
15
20
25
Relative Error, normalized. HPC (thin line: Bias)
True Value Absolute Humidity / (g/m^3)