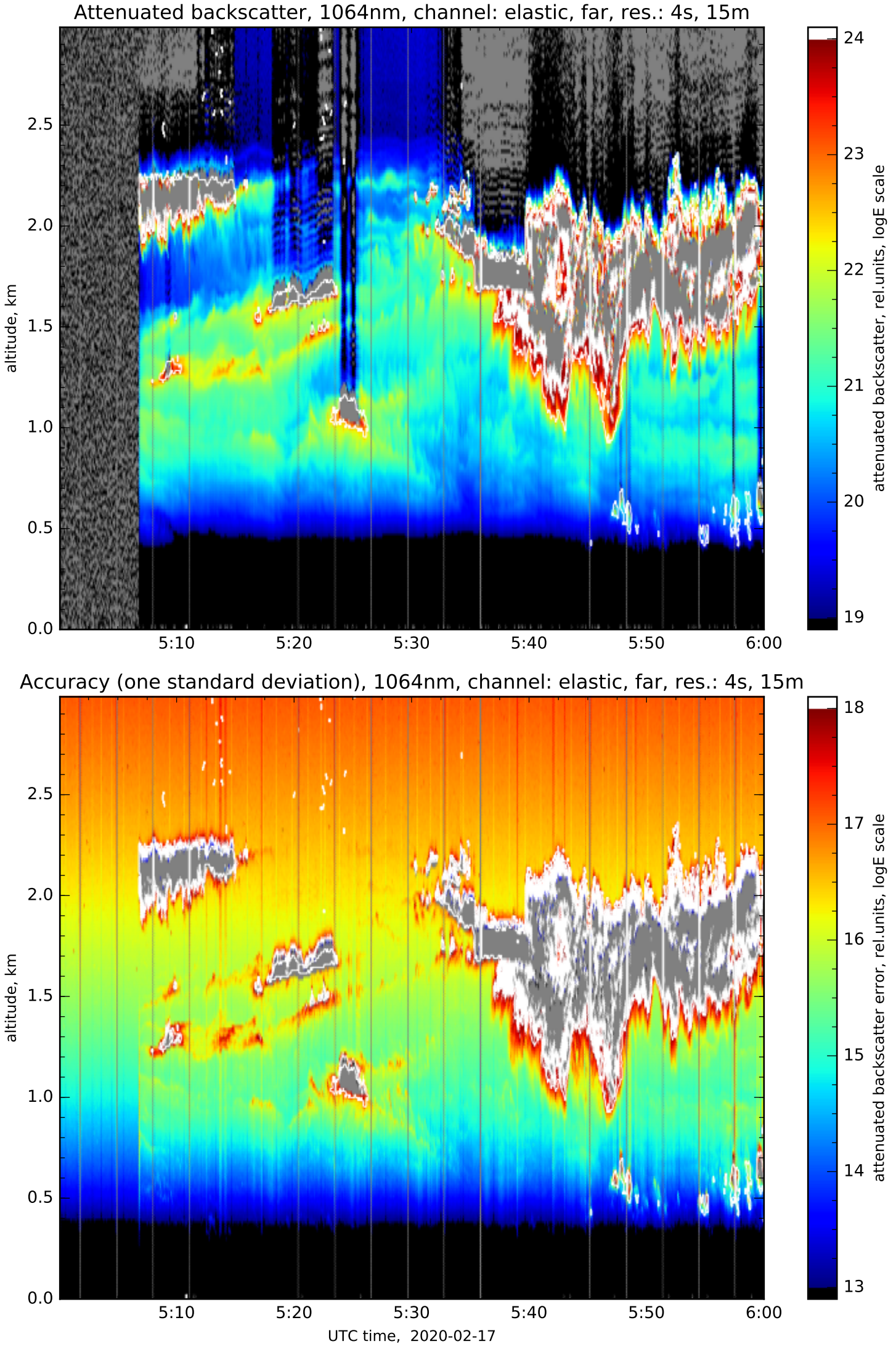
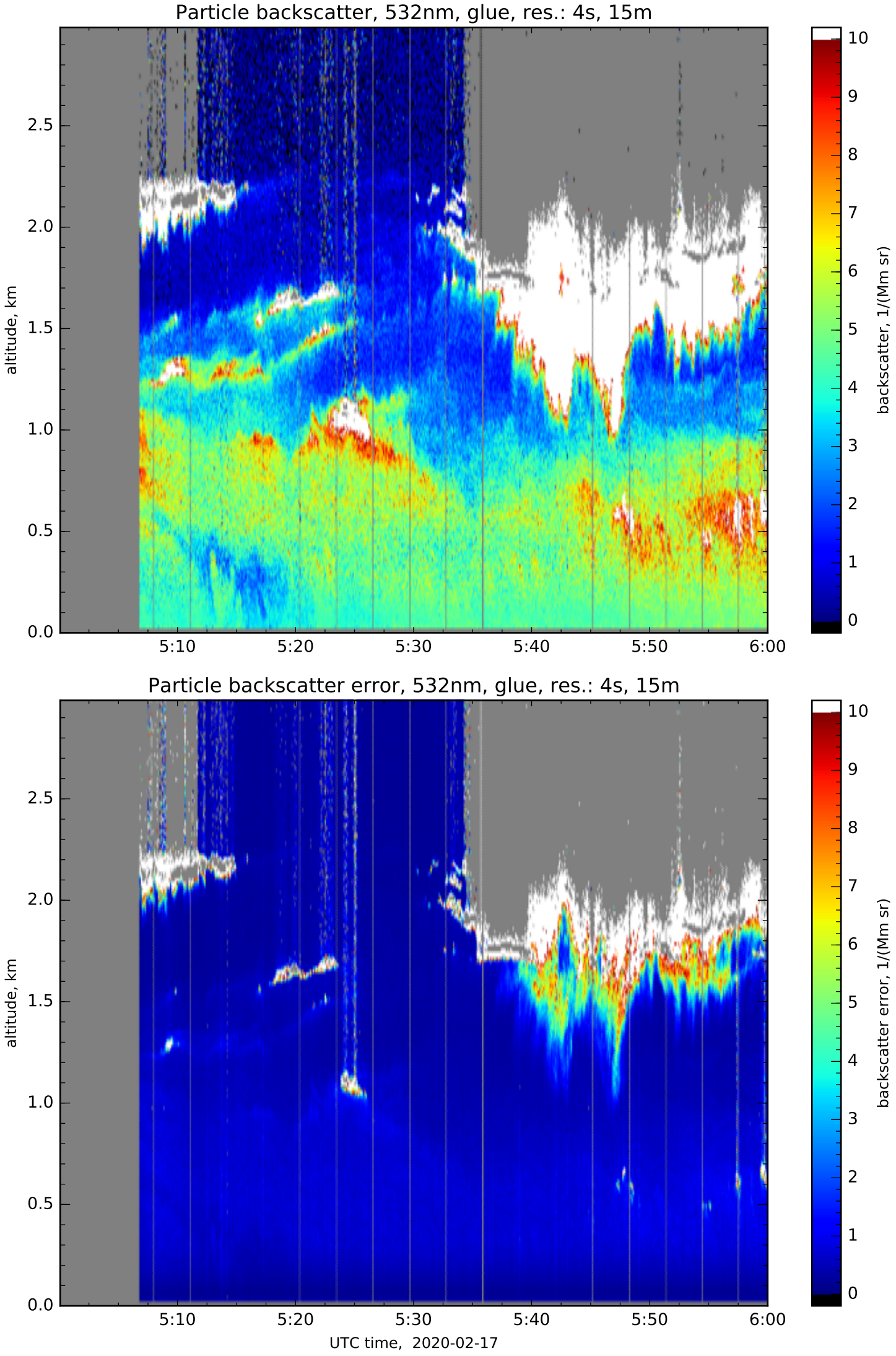
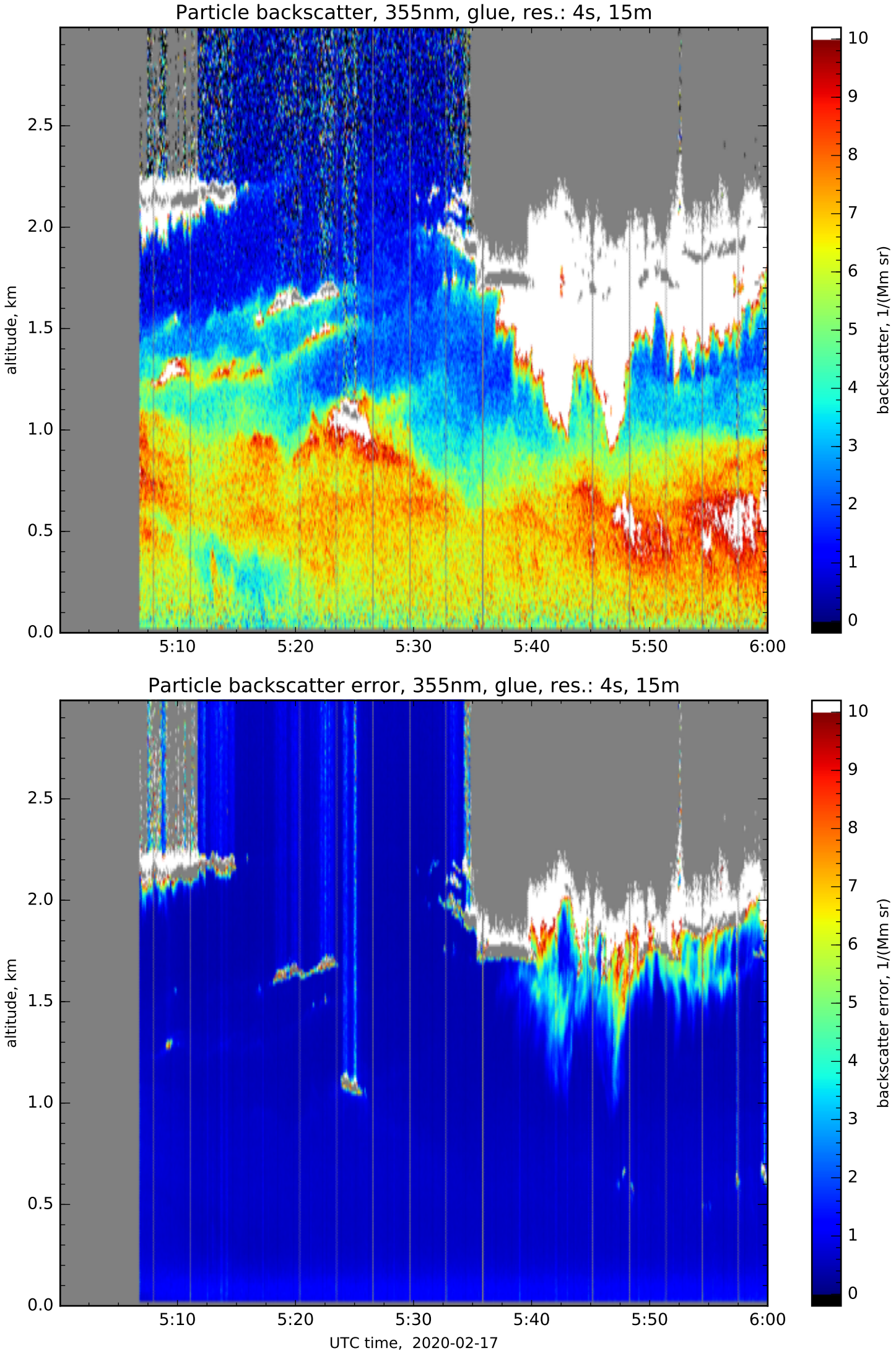
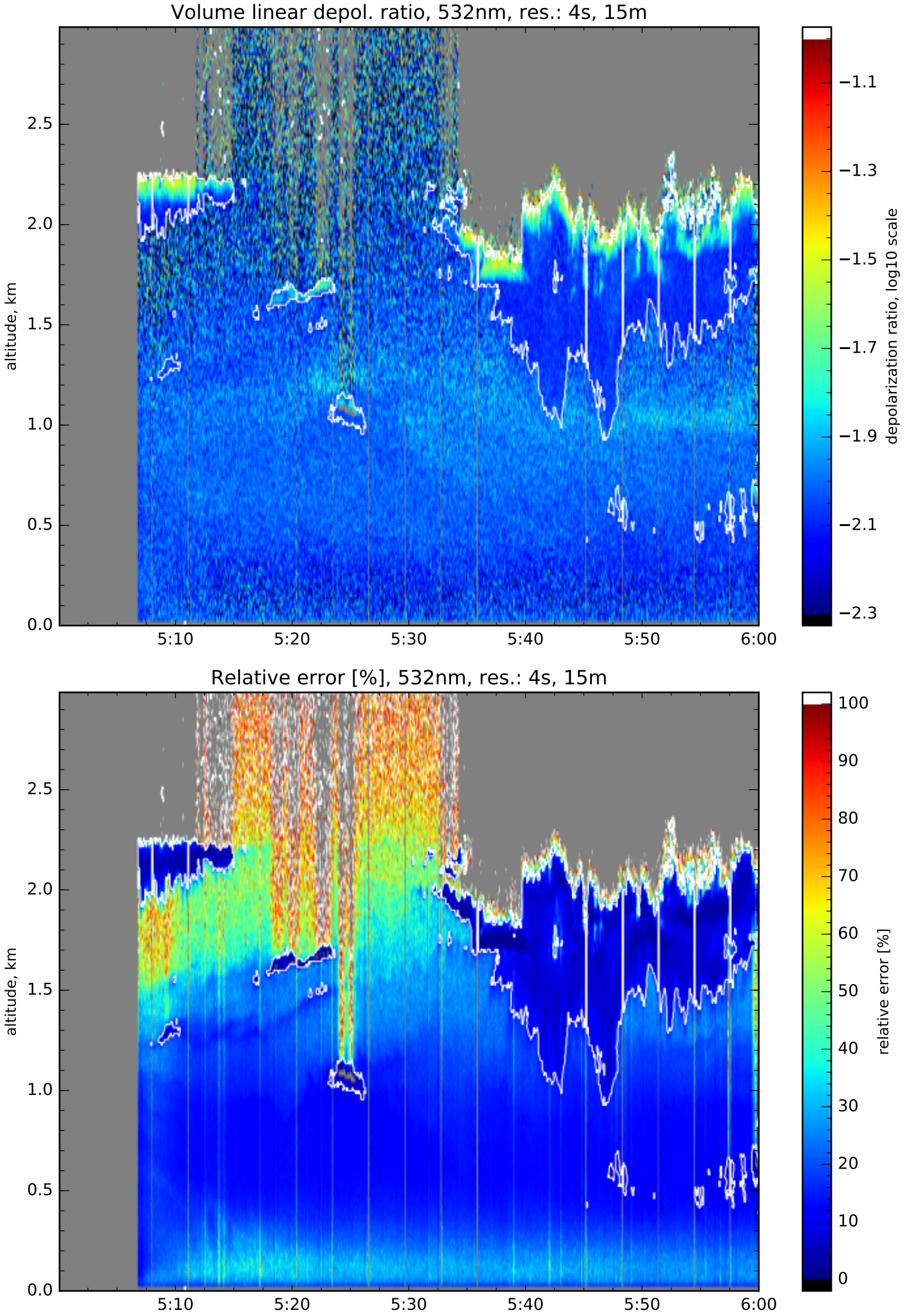
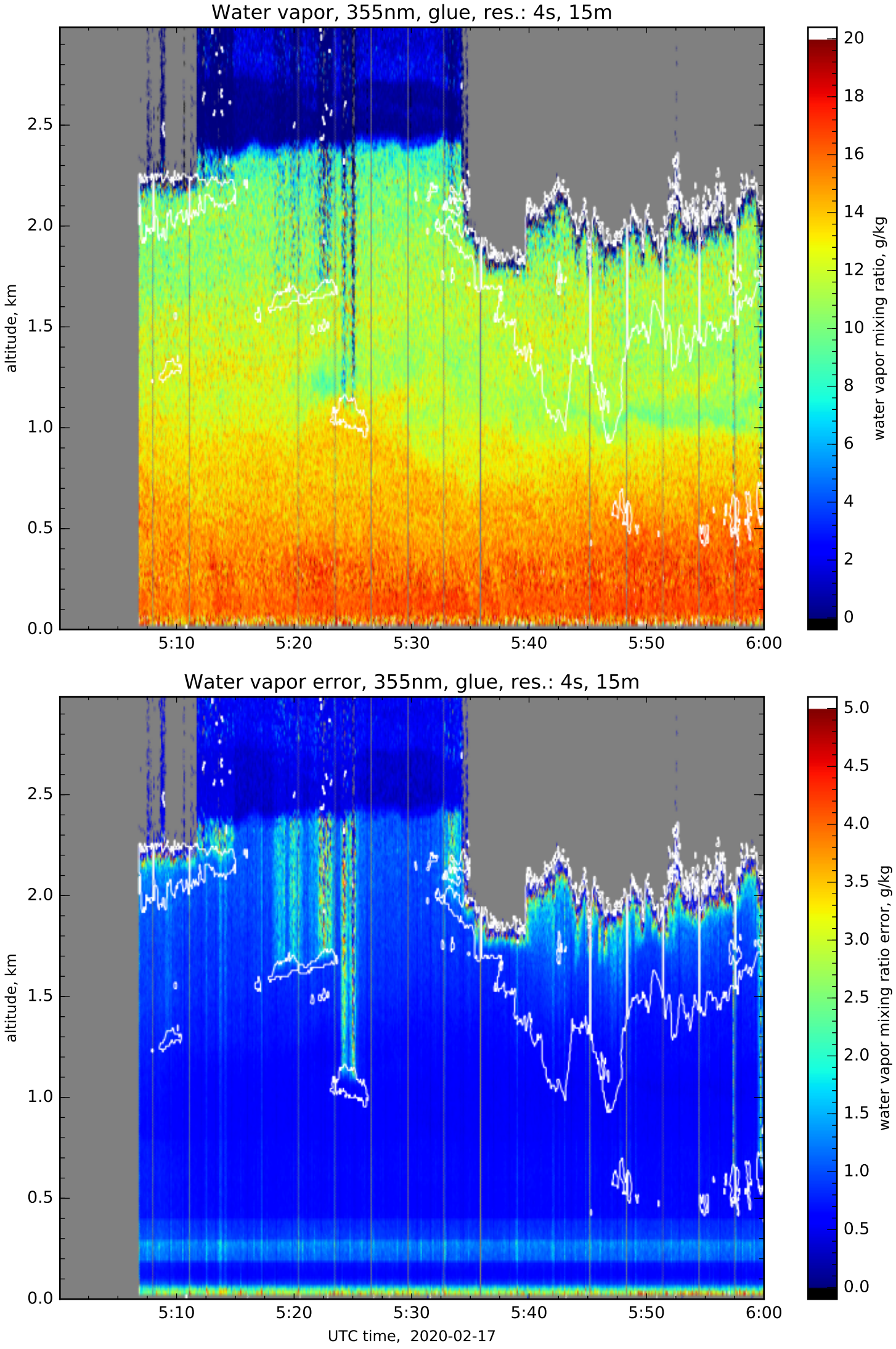
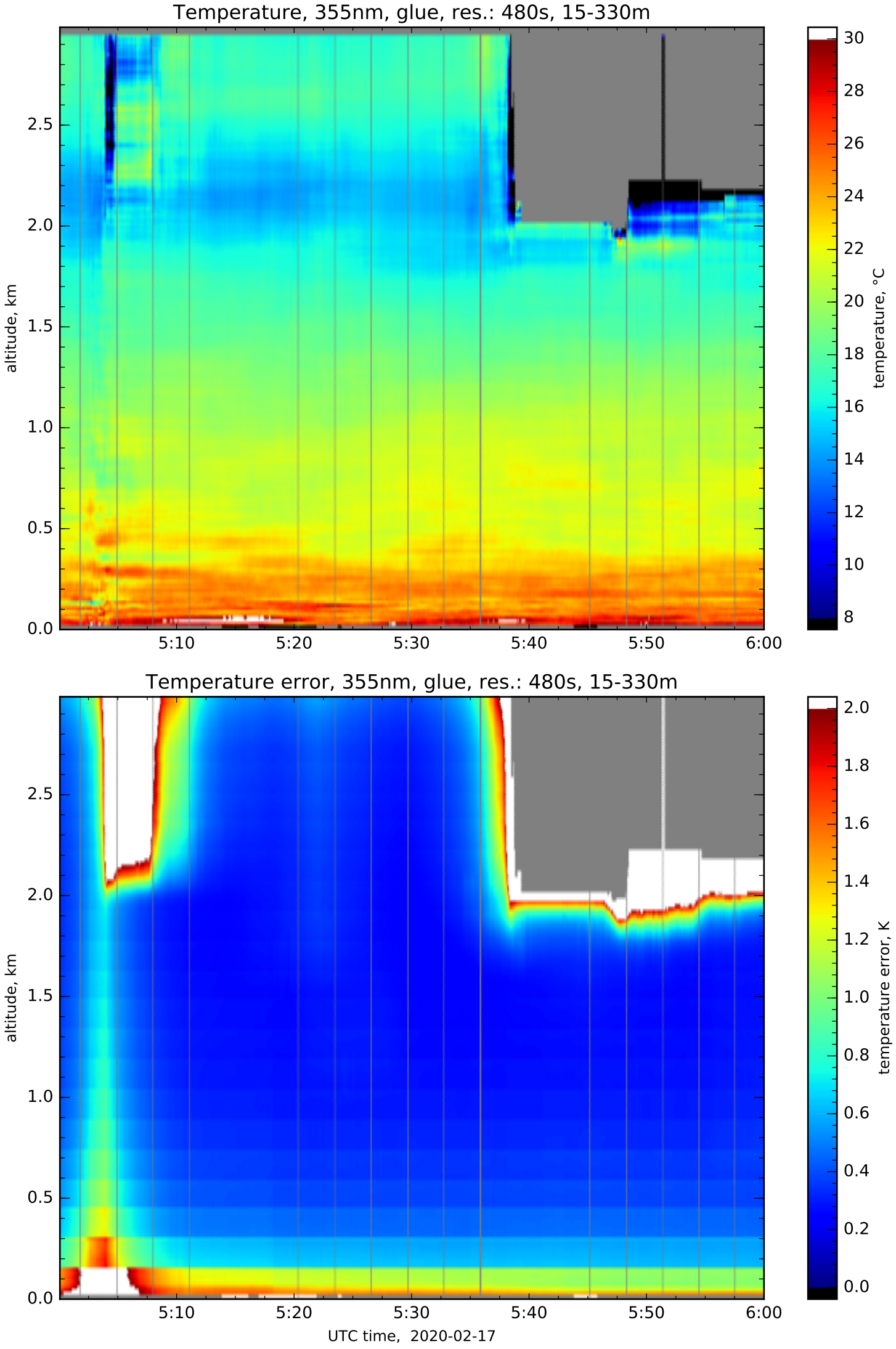

Attenuated backscatter, 1064nm, channel: elastic, far, res.: 4s, 15m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
attenuated backscatter, rel.units, logE scale
19
20
21
22
23
24
Accuracy (one standard deviation), 1064nm, channel: elastic, far, res.: 4s, 15m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
UTC time, 2020-02-17
attenuated backscatter error, rel.units, logE scale
13
14
15
16
17
18

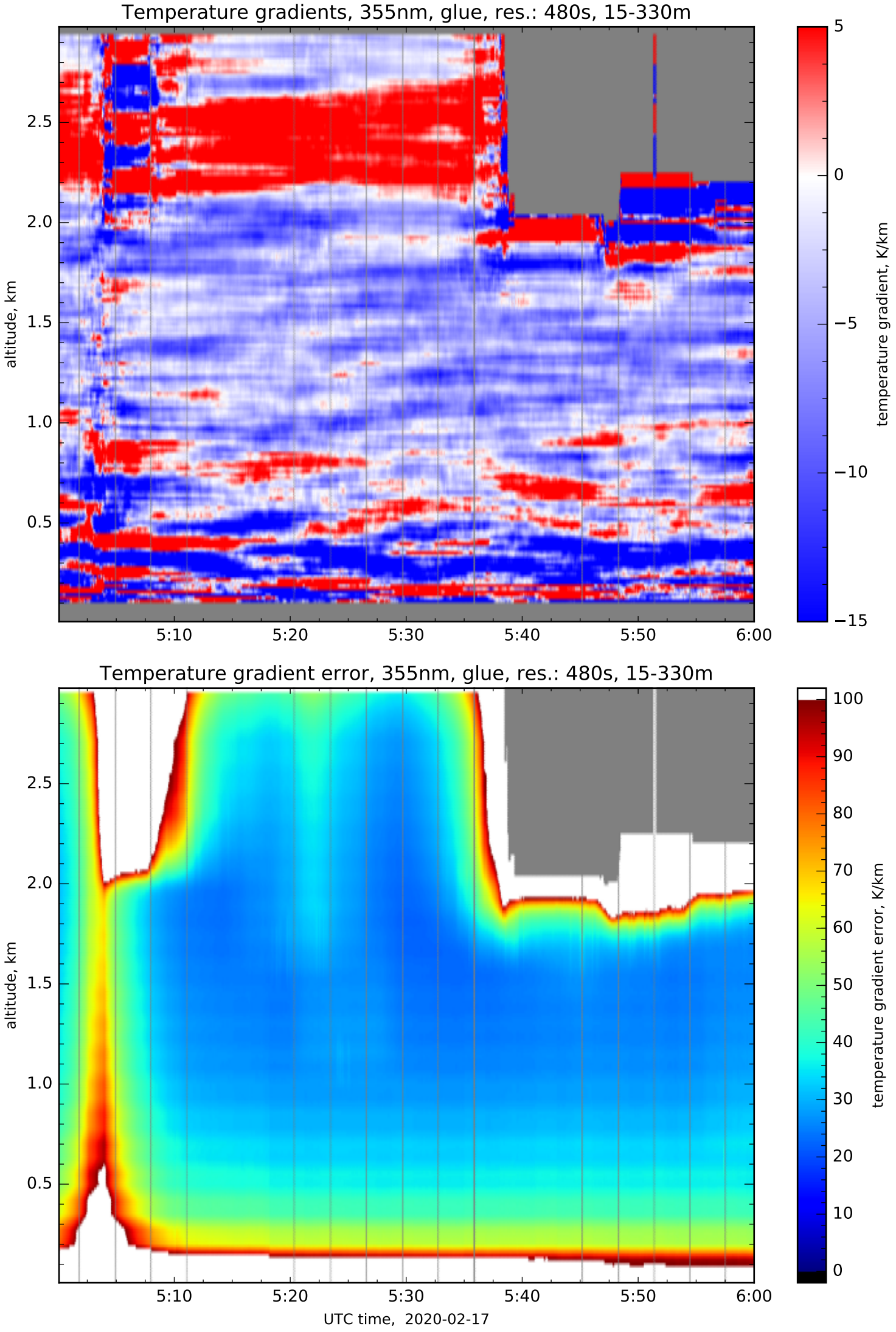

Particle backscatter, 532nm, glue, res.: 4s, 15m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
backscatter, 1/(Mm sr)
0
1
2
3
4
5
6
7
8
9
10
Particle backscatter error, 532nm, glue, res.: 4s, 15m
altitude, km
UTC time, 2020-02-17
backscatter error, 1/(Mm sr)

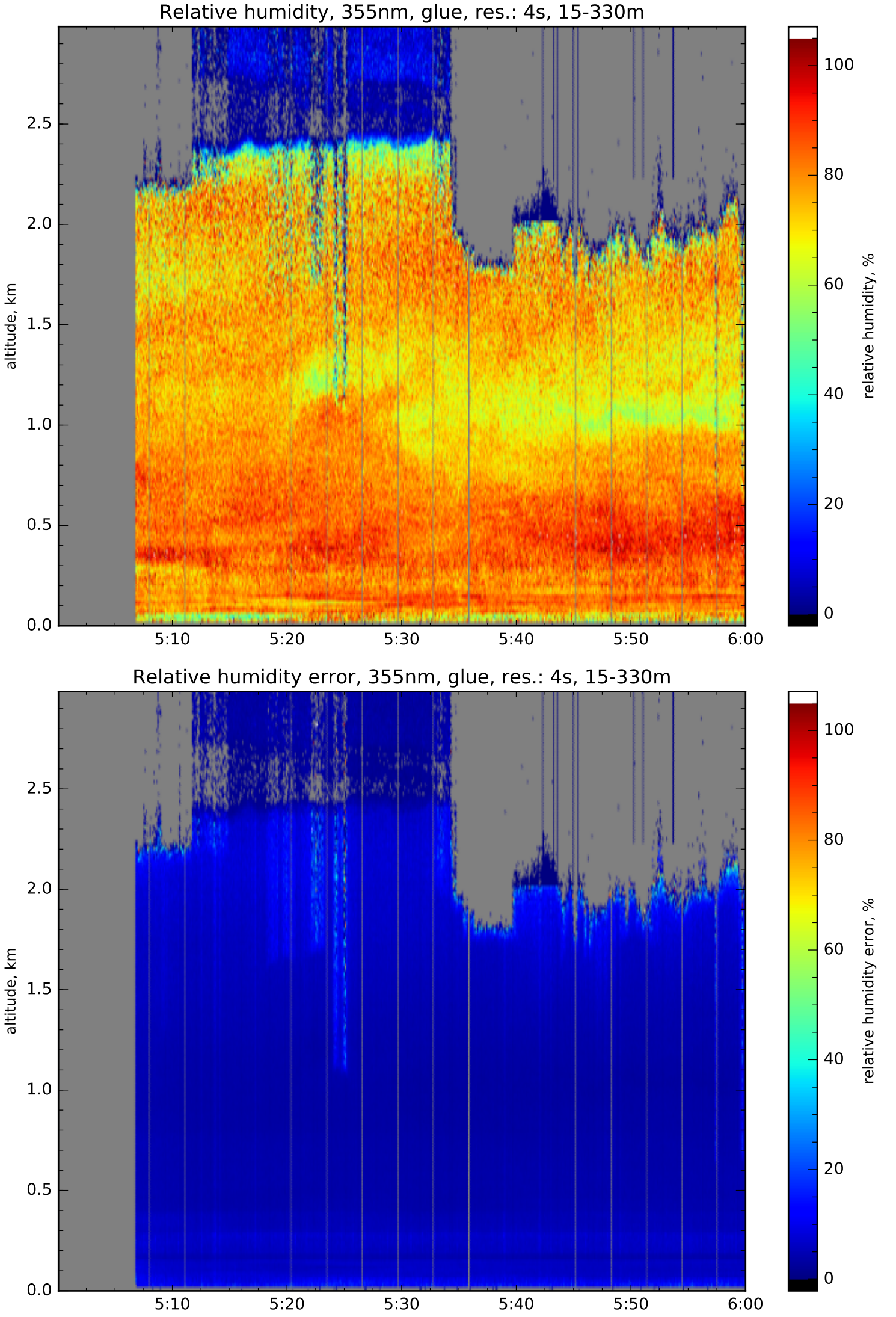

Particle backscatter, 355nm, glue, res.: 4s, 15m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
backscatter, 1/(Mm sr)
0
1
2
3
4
5
6
7
8
9
10
Particle backscatter error, 355nm, glue, res.: 4s, 15m
altitude, km
UTC time, 2020-02-17
backscatter error, 1/(Mm sr)

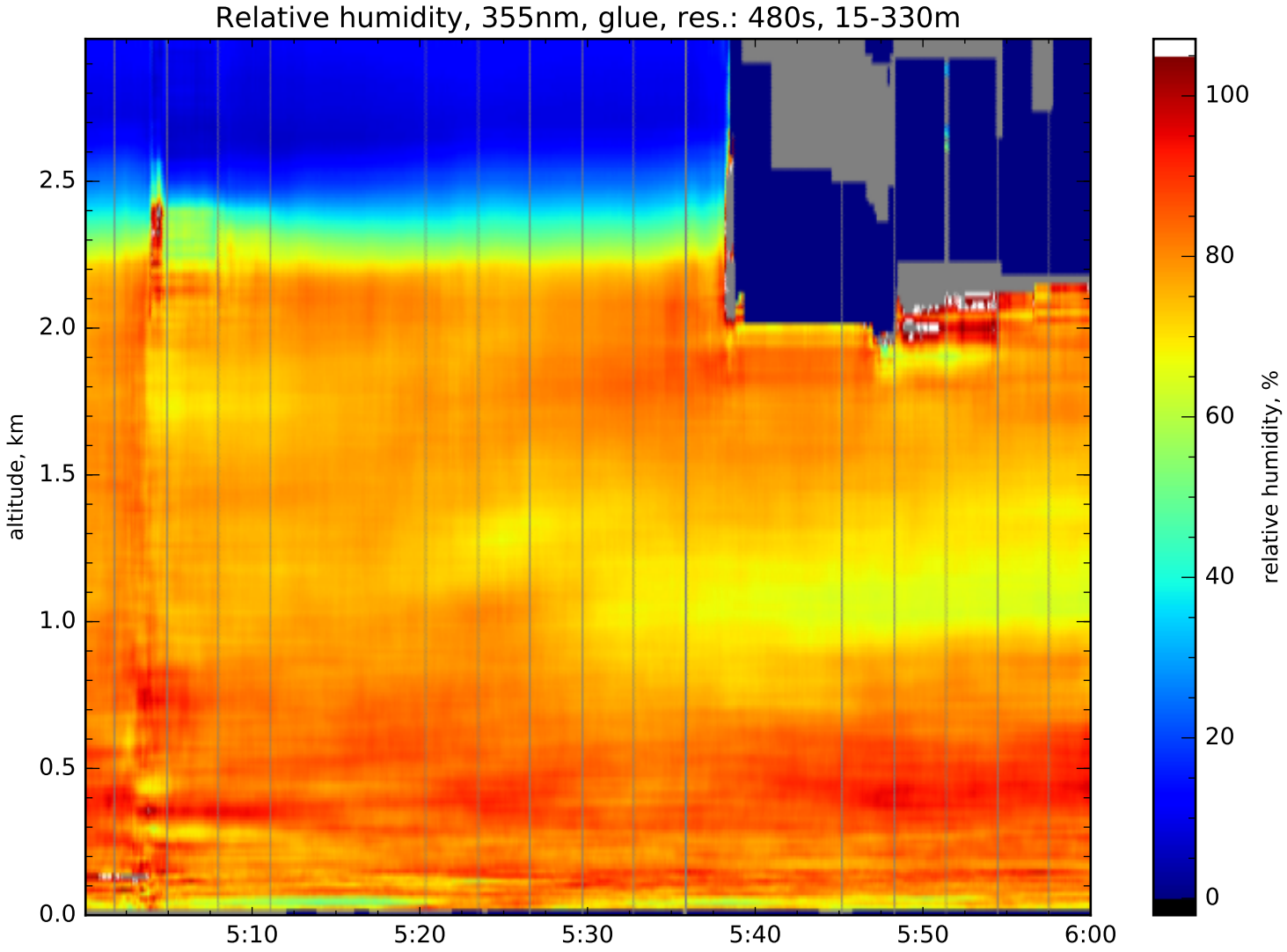

Volume linear depol. ratio, 532nm, res.: 4s, 15m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
depolarization ratio, log10 scale
−1.1
−1.3
−1.5
−1.7
−1.9
−2.1
−2.3
Relative error [%], 532nm, res.: 4s, 15m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
UTC time, 2020-02-17
relative error [%]
100
90
80
70
60
50
40
30
20
10
0

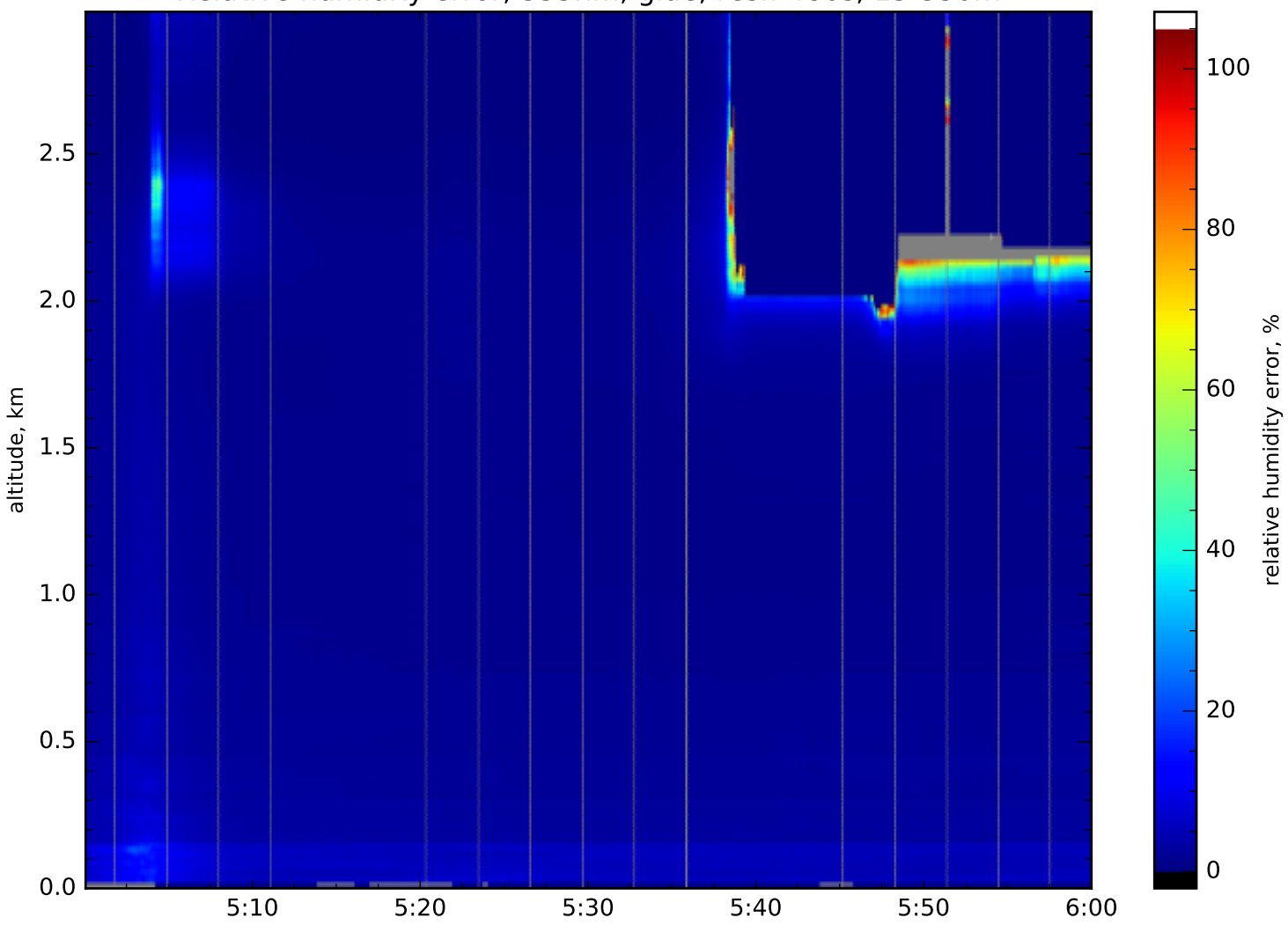

Water vapor, 355nm, glue, res.: 4s, 15m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
water vapor mixing ratio, g/kg
0
2
4
6
8
10
12
14
16
18
20
Water vapor error, 355nm, glue, res.: 4s, 15m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
UTC time, 2020-02-17
water vapor mixing ratio error, g/kg
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0


Temperature, 355nm, glue, res.: 480s, 15-330m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
temperature, °C
8
10
12
14
16
18
20
22
24
26
28
30
Temperature error, 355nm, glue, res.: 480s, 15-330m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
UTC time, 2020-02-17
temperature error, K
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0


Temperature gradients, 355nm, glue, res.: 480s, 15-330m
altitude, km
2.5
2.0
1.5
1.0
0.5
5:10
5:20
5:30
5:40
5:50
6:00
5
0
−5
−10
−15
temperature gradient, K/km
Temperature gradient error, 355nm, glue, res.: 480s, 15-330m
altitude, km
2.5
2.0
1.5
1.0
0.5
5:10
5:20
5:30
5:40
5:50
6:00
UTC time, 2020-02-17
100
90
80
70
60
50
40
30
20
10
0
temperature gradient error, K/km


Relative humidity, 355nm, glue, res.: 4s, 15-330m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
relative humidity, %
0
20
40
60
80
100
Relative humidity error, 355nm, glue, res.: 4s, 15-330m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
relative humidity error, %
0
20
40
60
80
100


Relative humidity, 355nm, glue, res.: 480s, 15-330m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
relative humidity, %
0
20
40
60
80
100


Relative humidity error, 355nm, glue, res.: 480s, 15-330m
altitude, km
0.0
0.5
1.0
1.5
2.0
2.5
5:10
5:20
5:30
5:40
5:50
6:00
relative humidity error, %
0
20
40
60
80
100