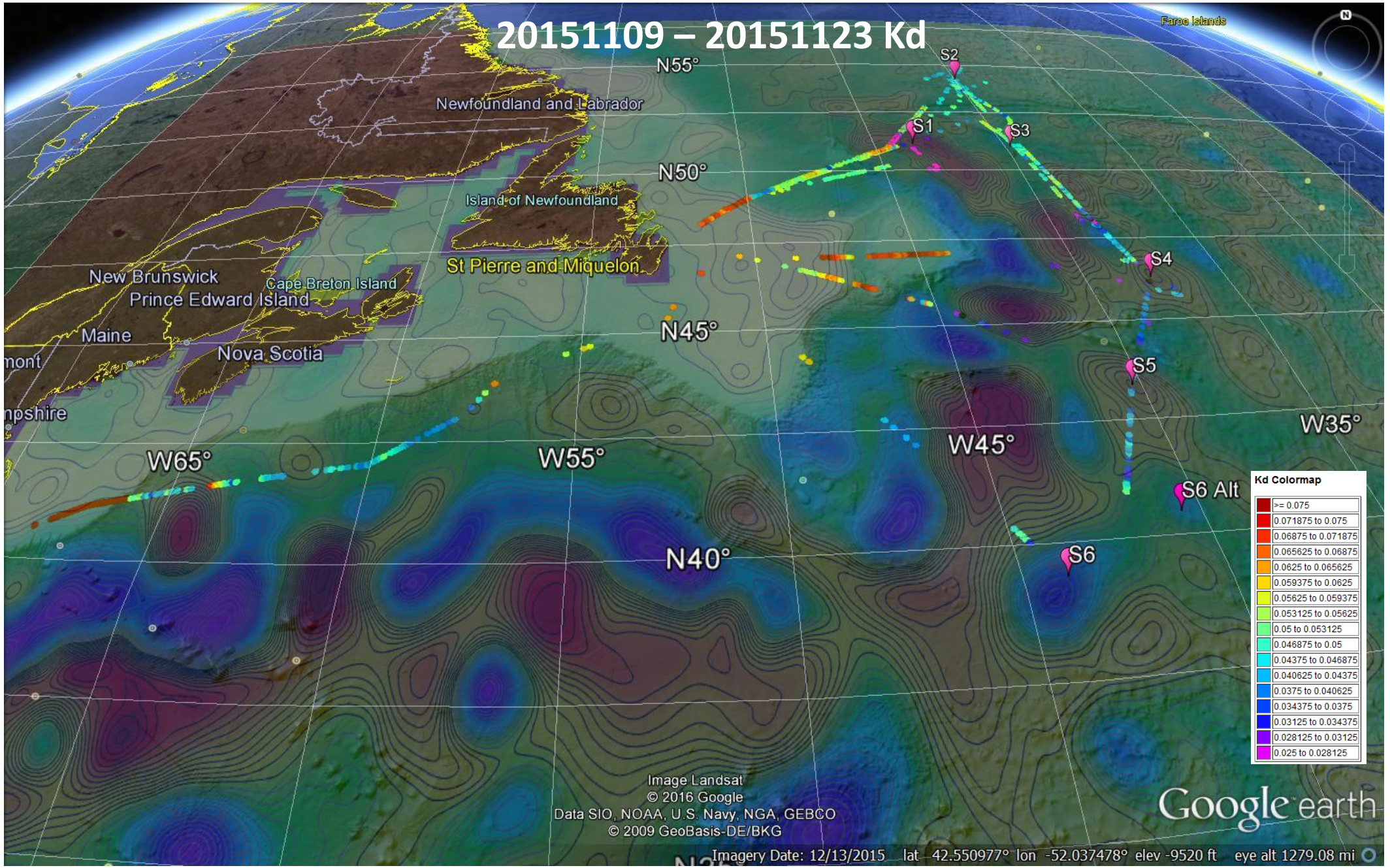
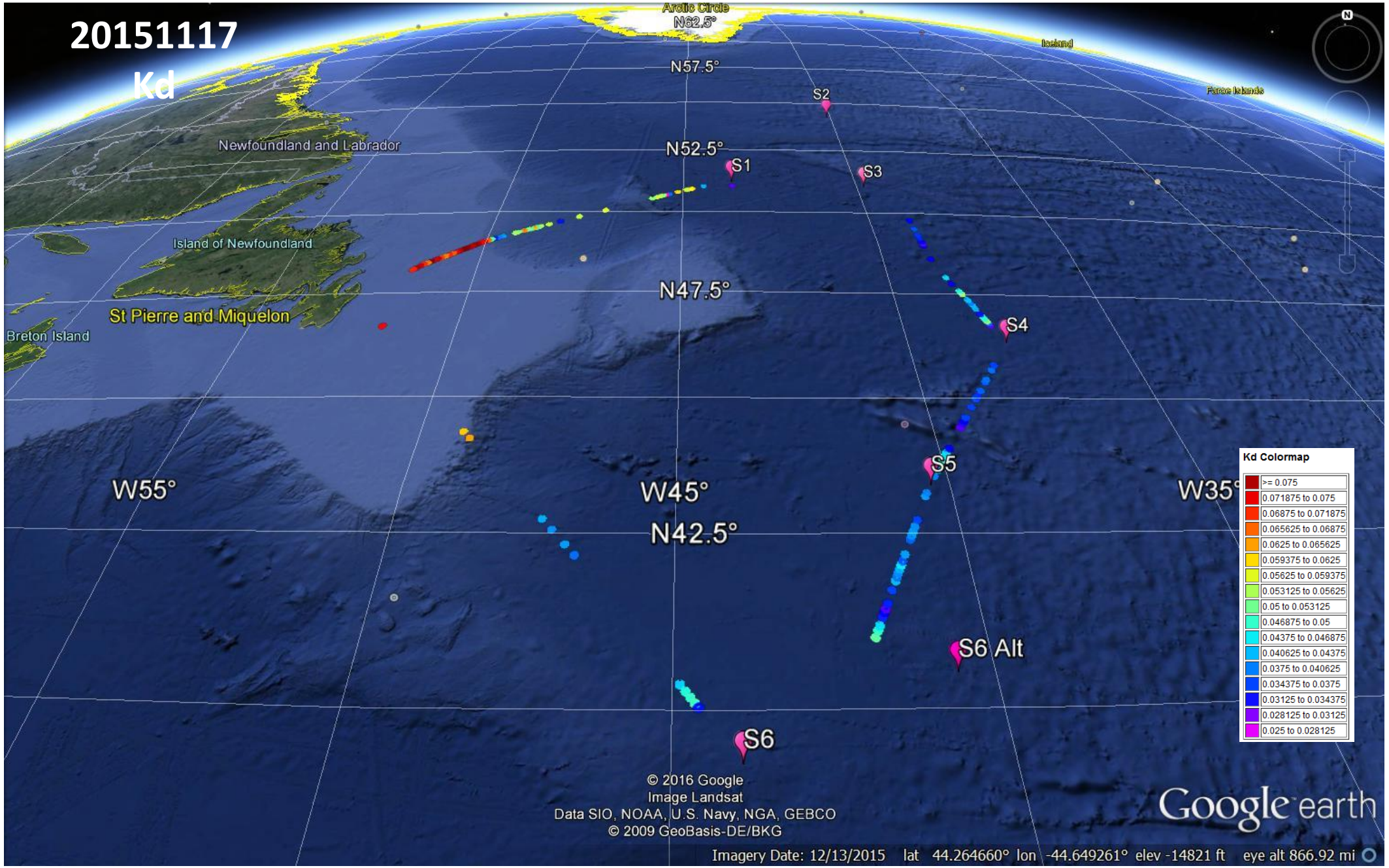
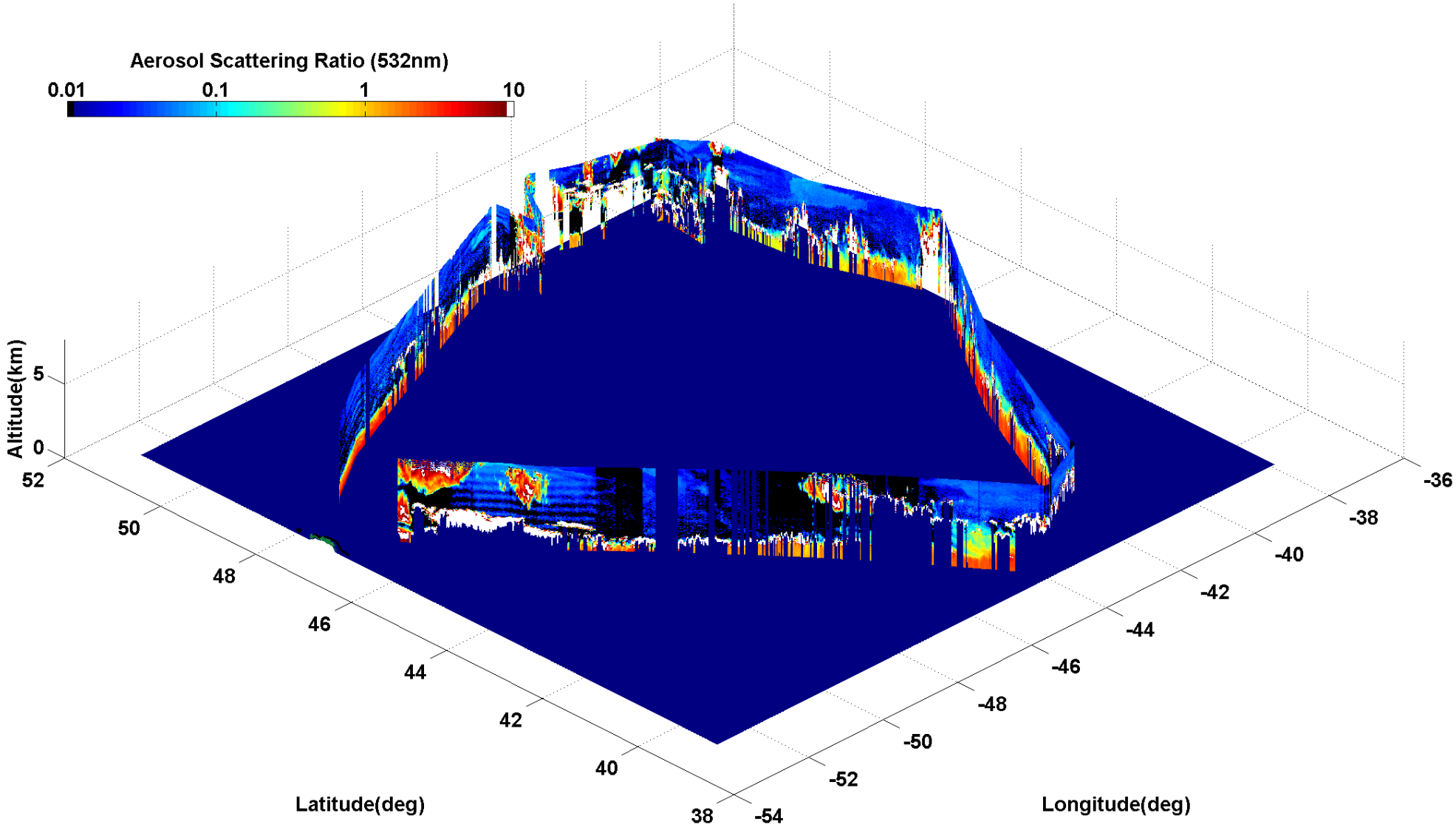
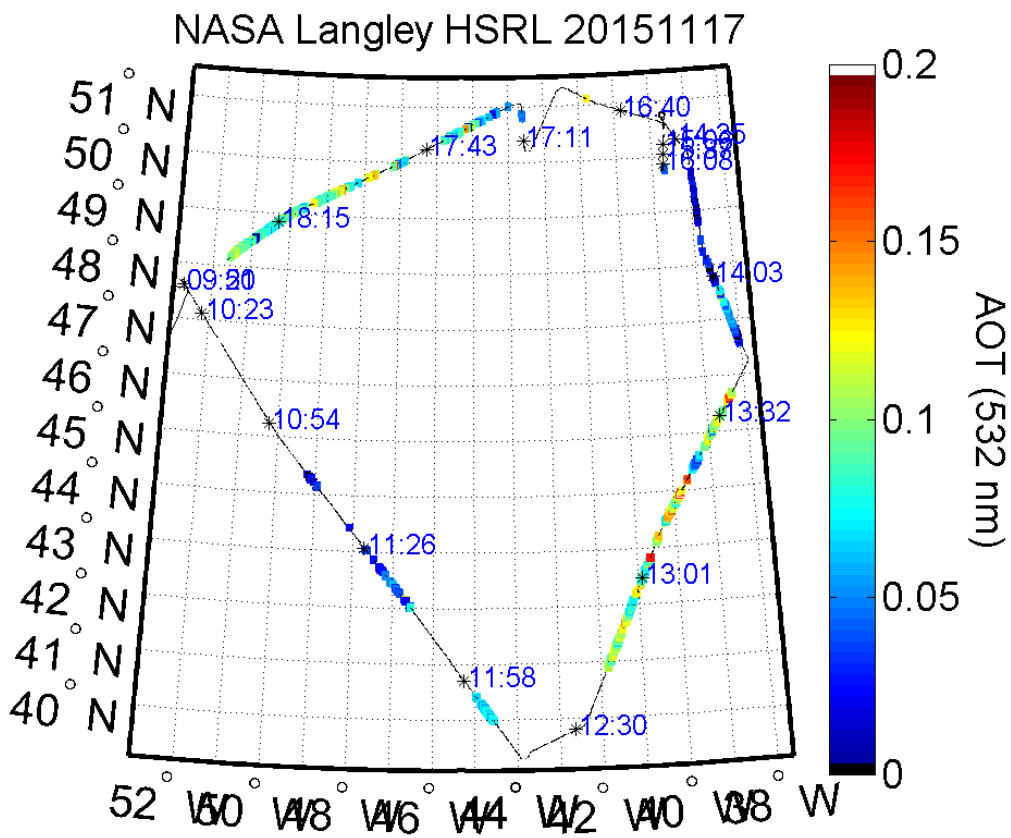
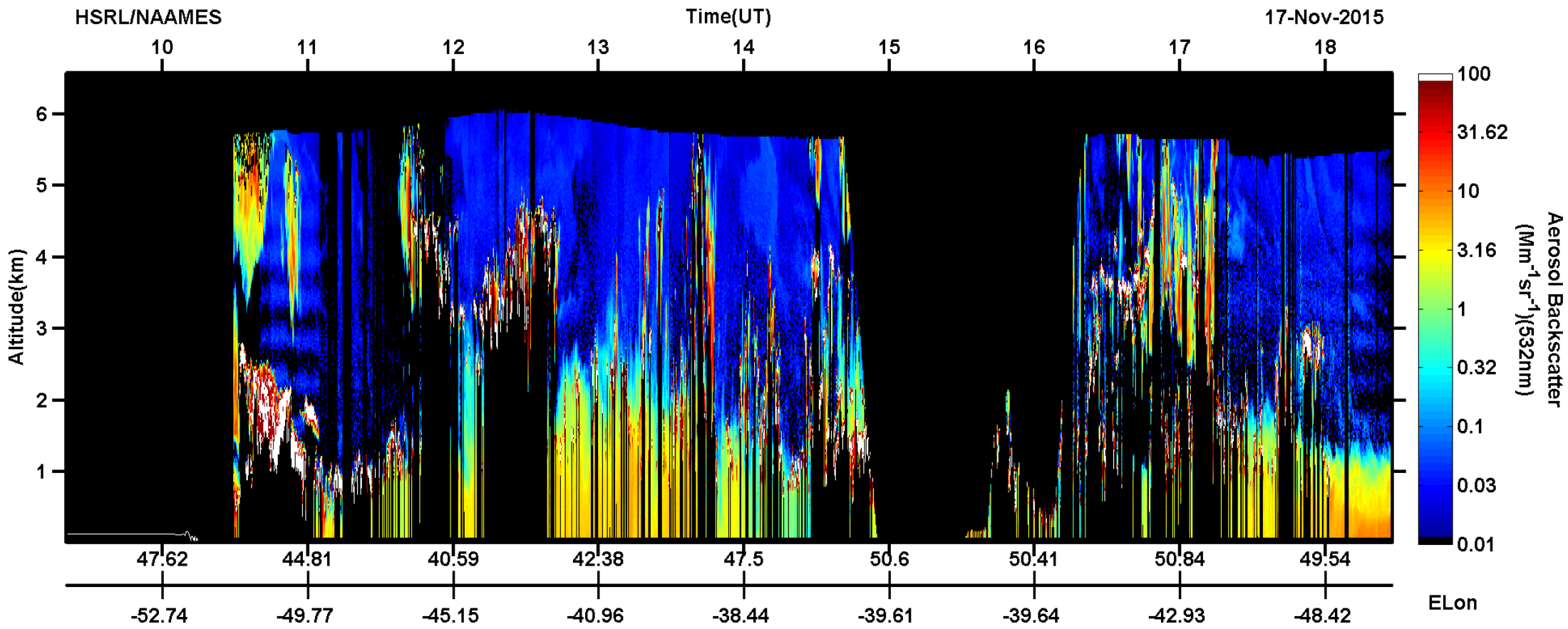
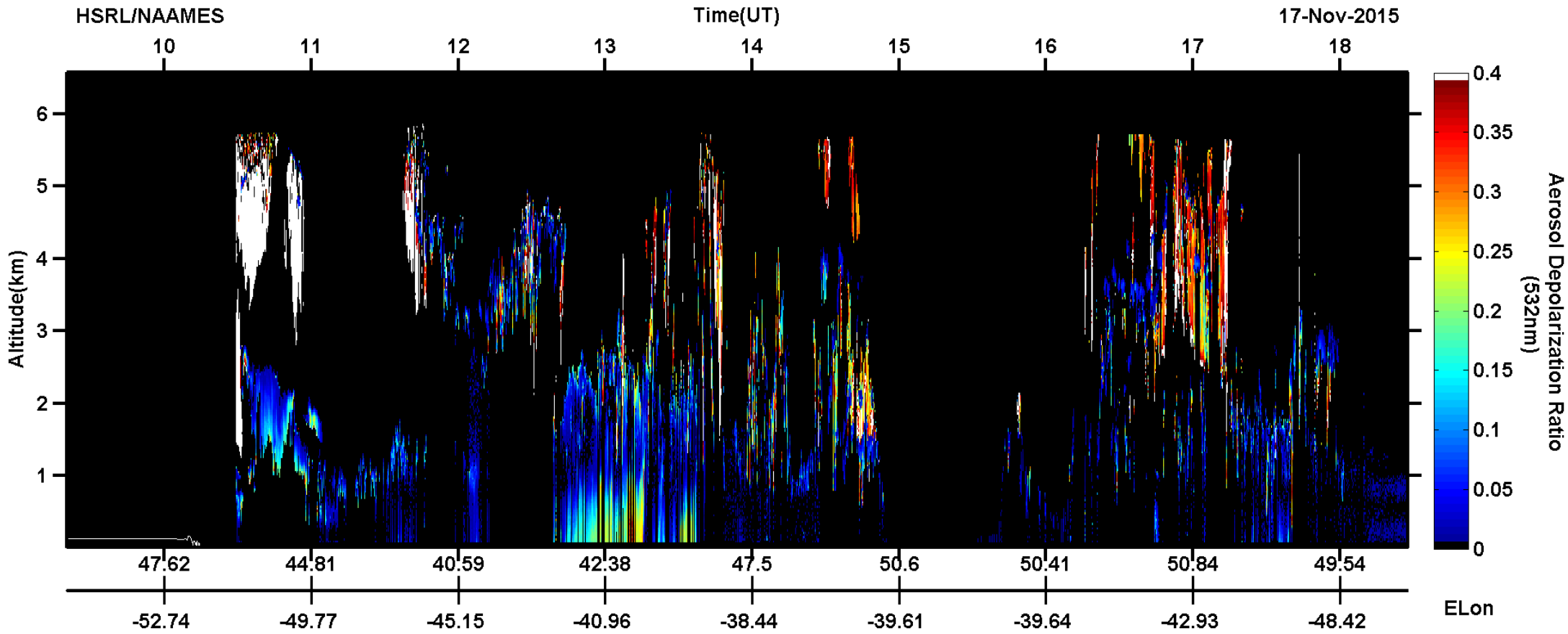

20151109 – 20151123 Kd
Faroe Islands
N55°
Newfoundland and Labrador
S2
S1
S3
N50°
Island of Newfoundland
St Pierre and Miquelon
S4
New Brunswick
Cape Breton Island
Prince Edward Island
Maine
Nova Scotia
N45°
S5
W35°
W65°
W55°
W45°
S6 Alt
N40°
S6
Kd Colormap
>= 0.075
0.071875 to 0.075
0.06875 to 0.071875
0.065625 to 0.06875
0.0625 to 0.065625
0.059375 to 0.0625
0.05625 to 0.059375
0.053125 to 0.05625
0.05 to 0.053125
0.046875 to 0.05
0.04375 to 0.046875
0.040625 to 0.04375
0.0375 to 0.040625
0.034375 to 0.0375
0.03125 to 0.034375
0.028125 to 0.03125
0.025 to 0.028125
Image Landsat
© 2016 Google
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2009 GeoBasis-DE/BKG
Google earth
Imagery Date: 12/13/2015 lat 42.550977° lon -52.037478° elev -9520 ft eye alt 1279.08 mi

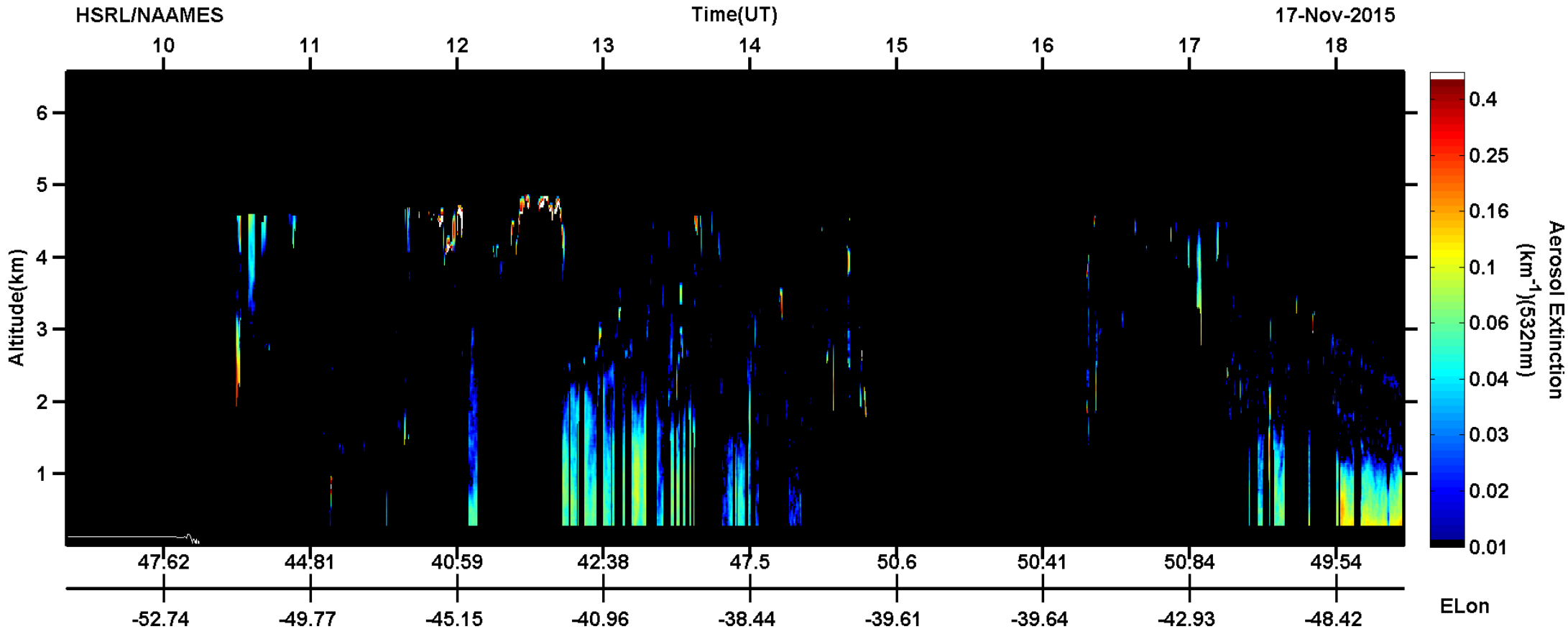

20151117
Kd
Arctic Circle
N62.5°
N57.5°
N52.5°
N47.5°
N42.5°
W55°
W45°
W35°
Iceland
Faroe Islands
Newfoundland and Labrador
Island of Newfoundland
St Pierre and Miquelon
Breton Island
S1
S2
S3
S4
S5
S6 Alt
S6
Kd Colormap
>= 0.075
0.071875 to 0.075
0.06875 to 0.071875
0.065625 to 0.06875
0.0625 to 0.065625
0.059375 to 0.0625
0.05625 to 0.059375
0.053125 to 0.05625
0.05 to 0.053125
0.046875 to 0.05
0.04375 to 0.046875
0.040625 to 0.04375
0.0375 to 0.040625
0.034375 to 0.0375
0.03125 to 0.034375
0.028125 to 0.03125
0.025 to 0.028125
© 2016 Google
Image Landsat
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2009 GeoBasis-DE/BKG
Google earth
Imagery Date: 12/13/2015 lat 44.264660° lon -44.649261° elev -14821 ft eye alt 866.92 mi

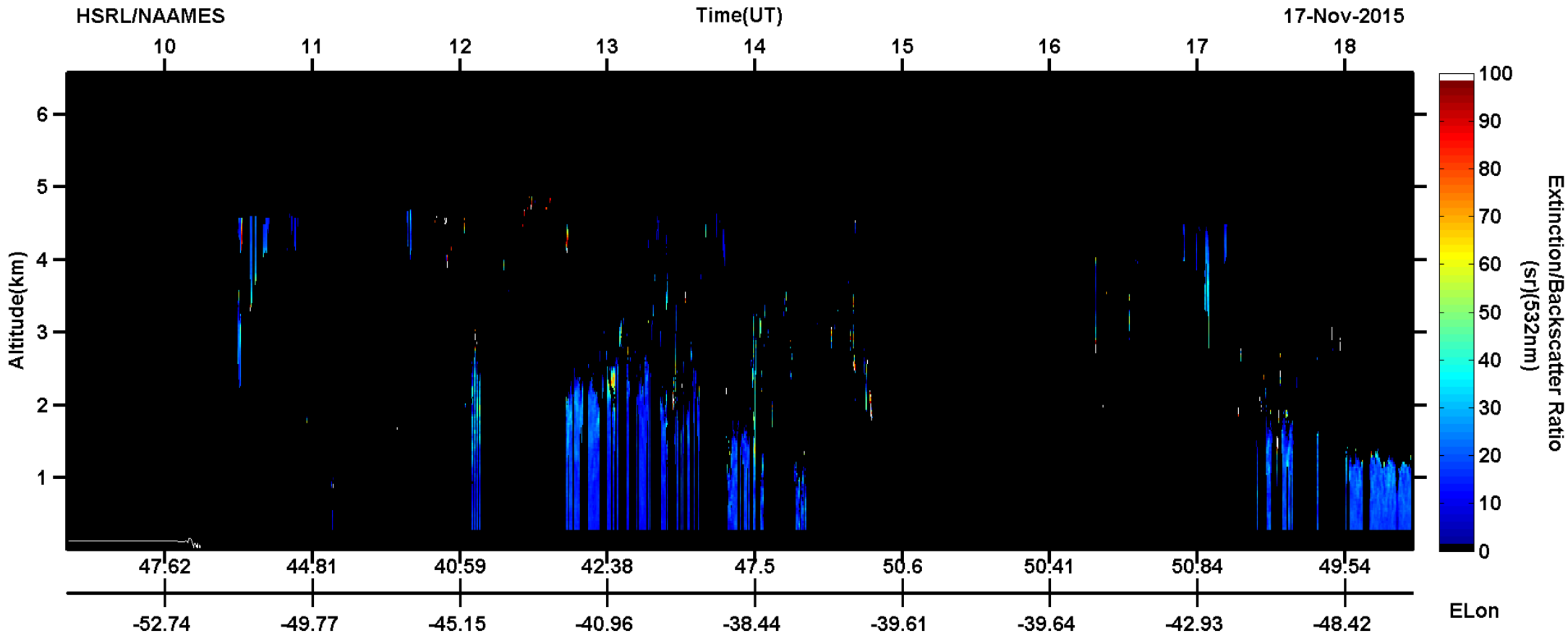

Aerosol Scattering Ratio (532nm)
0.01
0.1
1
10
Altitude(km)
5
0
52
50
48
46
44
42
40
38
Latitude(deg)
-54
-52
-50
-48
-46
-44
-42
-40
-38
-36
Longitude(deg)

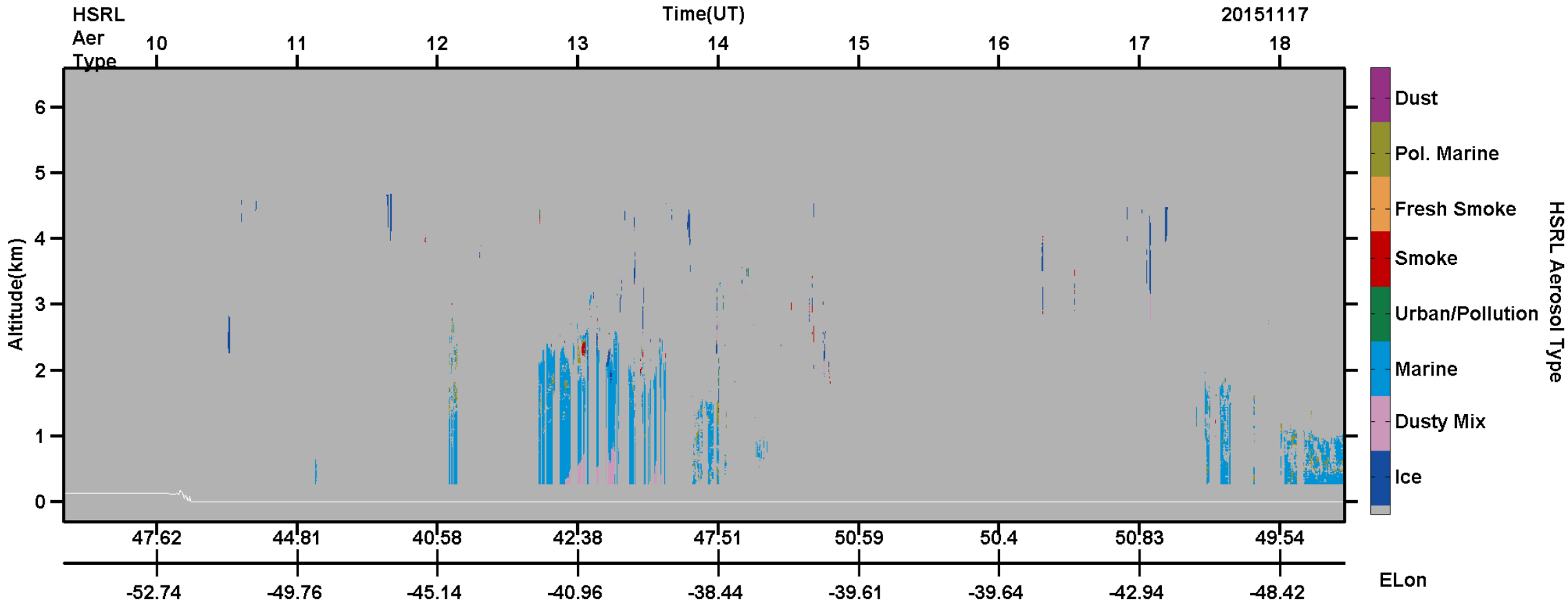

NASA Langley HSRL 20151117
51° N
50° N
49° N
48° N
47° N
46° N
45° N
44° N
43° N
42° N
41° N
40° N
52° W
50° W
48° W
46° W
44° W
42° W
40° W
38° W
09:20
10:23
10:54
11:26
11:58
12:30
13:01
13:32
14:03
16:40
17:11
17:43
18:15
0.2
0.15
0.1
0.05
0
AOT (532 nm)

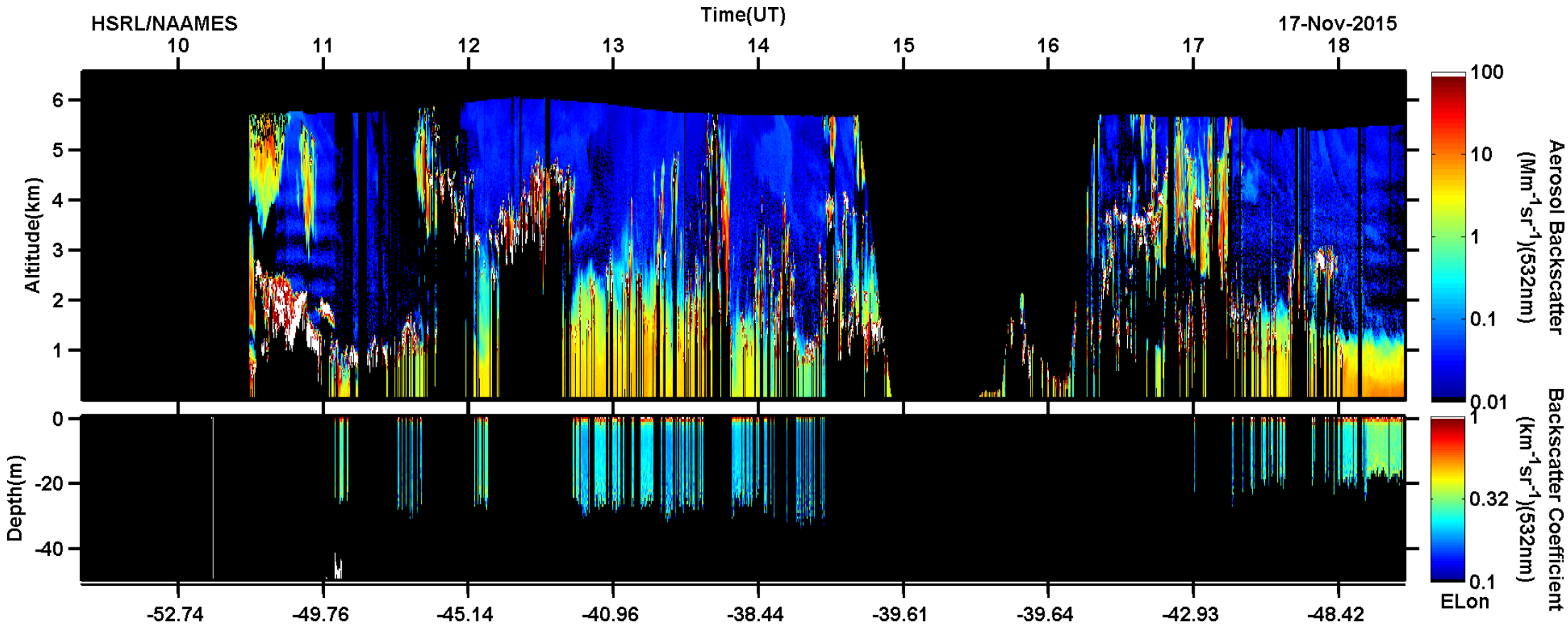

HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
Altitude(km)
6
5
4
3
2
1
47.62
44.81
40.59
42.38
47.5
50.6
50.41
50.84
49.54
-52.74
-49.77
-45.15
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon
100
31.62
10
3.16
1
0.32
0.1
0.03
0.01
Aerosol Backscatter
(Mm-1sr-1)(532nm)

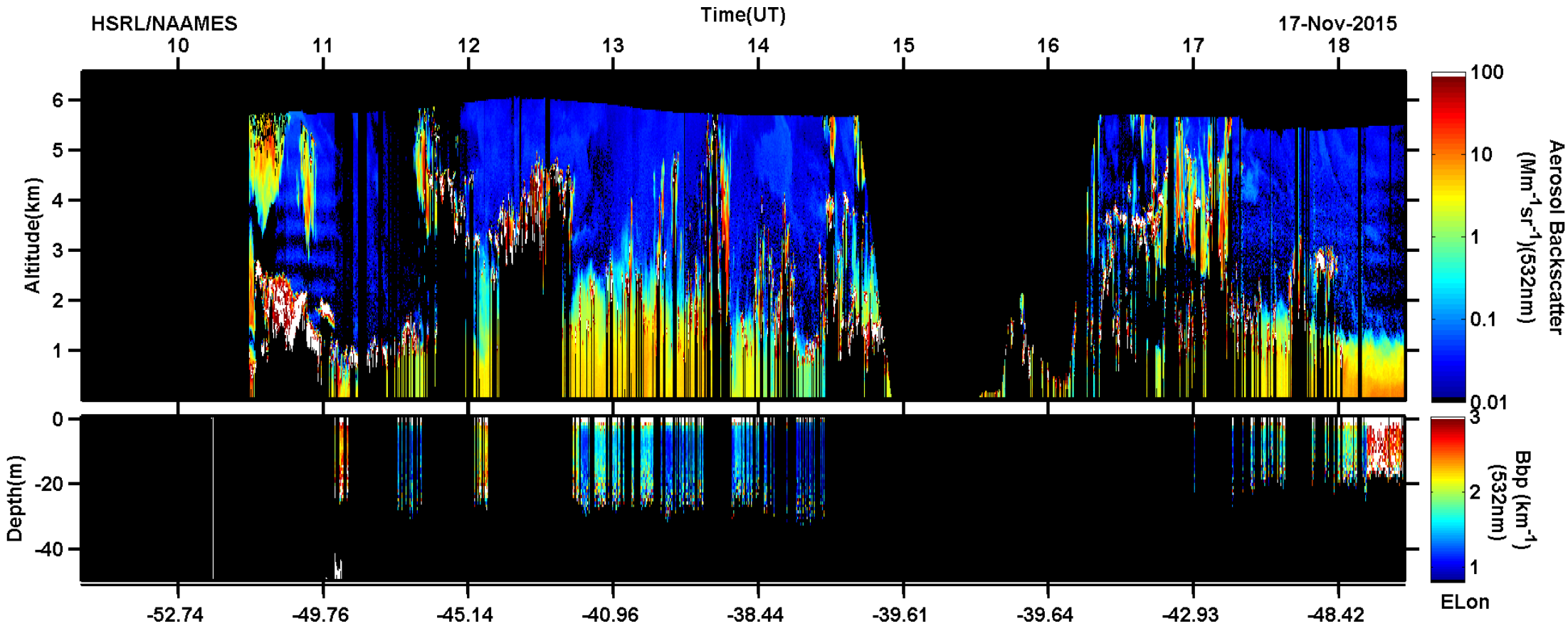

HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
Altitude(km)
6
5
4
3
2
1
47.62
44.81
40.59
42.38
47.5
50.6
50.41
50.84
49.54
-52.74
-49.77
-45.15
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Aerosol Depolarization Ratio
(532nm)

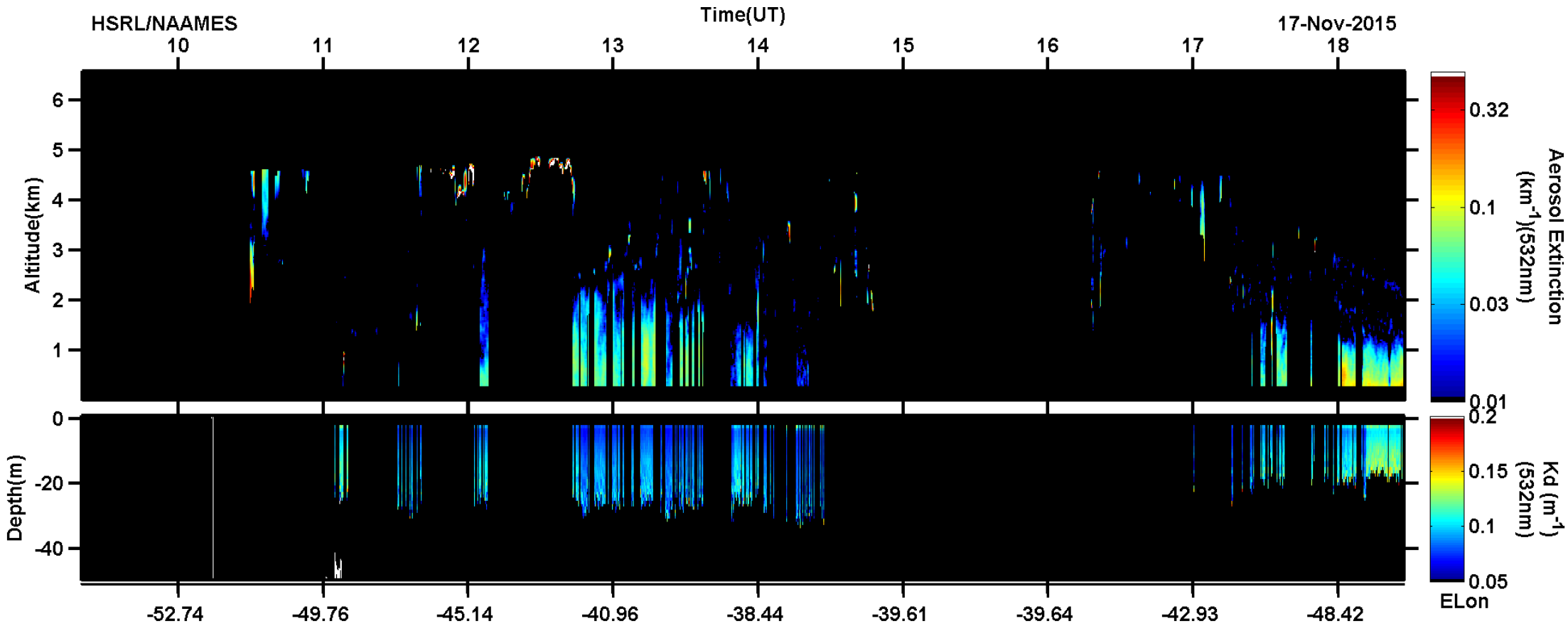

HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
Altitude(km)
6
5
4
3
2
1
47.62
44.81
40.59
42.38
47.5
50.6
50.41
50.84
49.54
-52.74
-49.77
-45.15
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon
0.4
0.25
0.16
0.1
0.06
0.04
0.03
0.02
0.01
Aerosol Extinction
(km-1)(532nm)

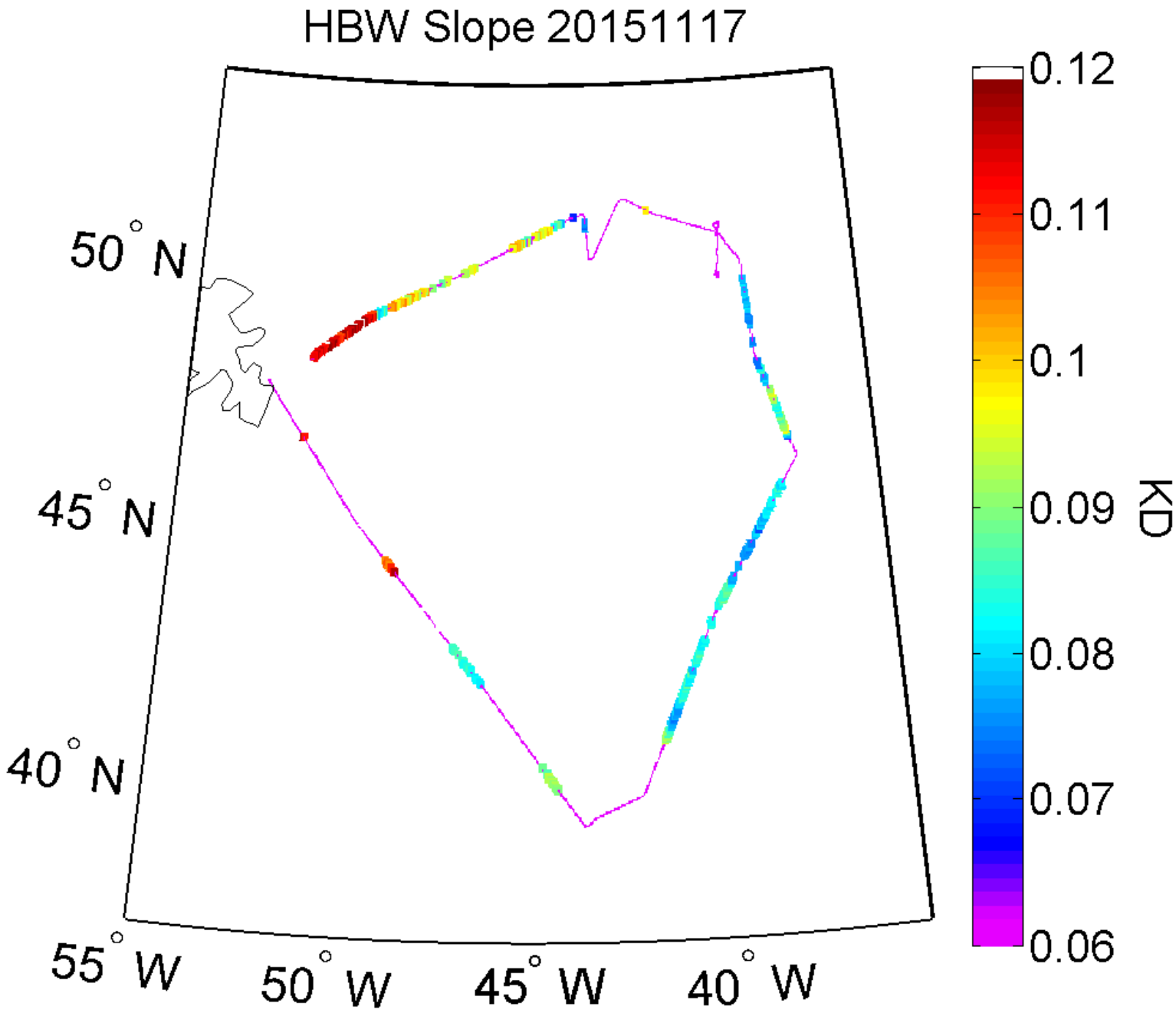

HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
Altitude(km)
6
5
4
3
2
1
47.62
44.81
40.59
42.38
47.5
50.6
50.41
50.84
49.54
-52.74
-49.77
-45.15
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon
100
90
80
70
60
50
40
30
20
10
0
Extinction/Backscatter Ratio
(sr)(532nm)

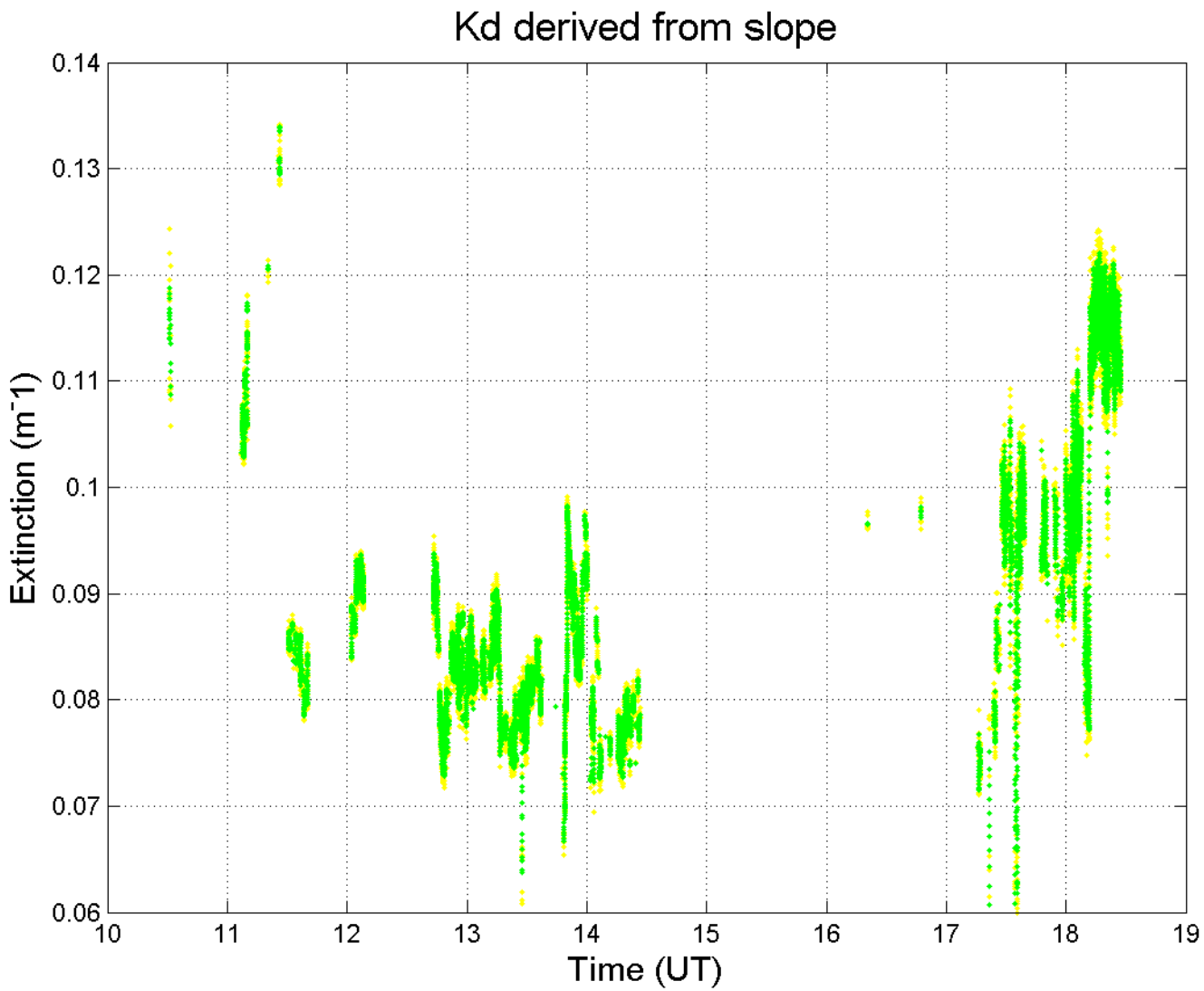

HSRL
Aer
Type
Time(UT)
20151117
10
11
12
13
14
15
16
17
18
Altitude(km)
0
1
2
3
4
5
6
47.62
44.81
40.58
42.38
47.51
50.59
50.4
50.83
49.54
-52.74
-49.76
-45.14
-40.96
-38.44
-39.61
-39.64
-42.94
-48.42
ELon
Dust
Pol. Marine
Fresh Smoke
Smoke
Urban/Pollution
Marine
Dusty Mix
Ice
HSRL Aerosol Type

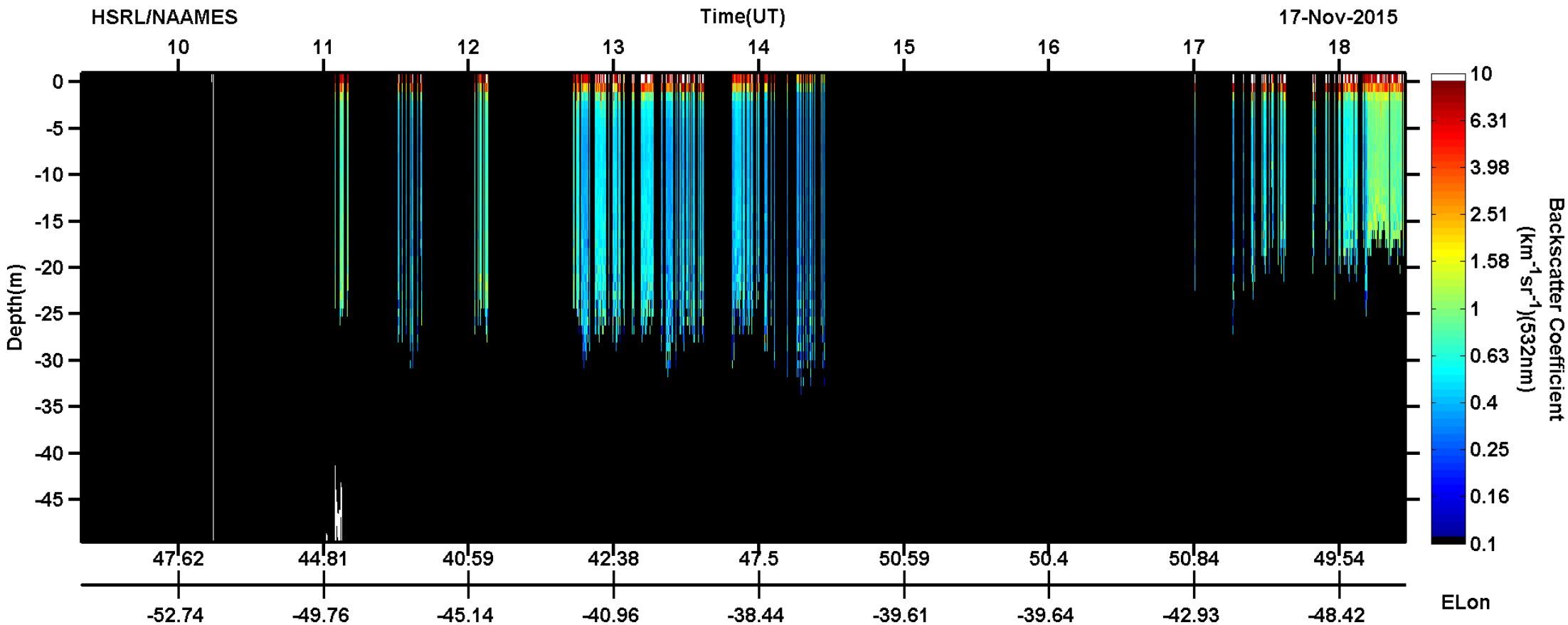

HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
Altitude(km)
6
5
4
3
2
1
Depth(m)
0
-20
-40
100
10
1
0.1
0.01
Aerosol Backscatter
(Mm-1sr-1)(532nm)
1
0.32
0.1
Backscatter Coefficient
(km-1sr-1)(532nm)
-52.74
-49.76
-45.14
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon

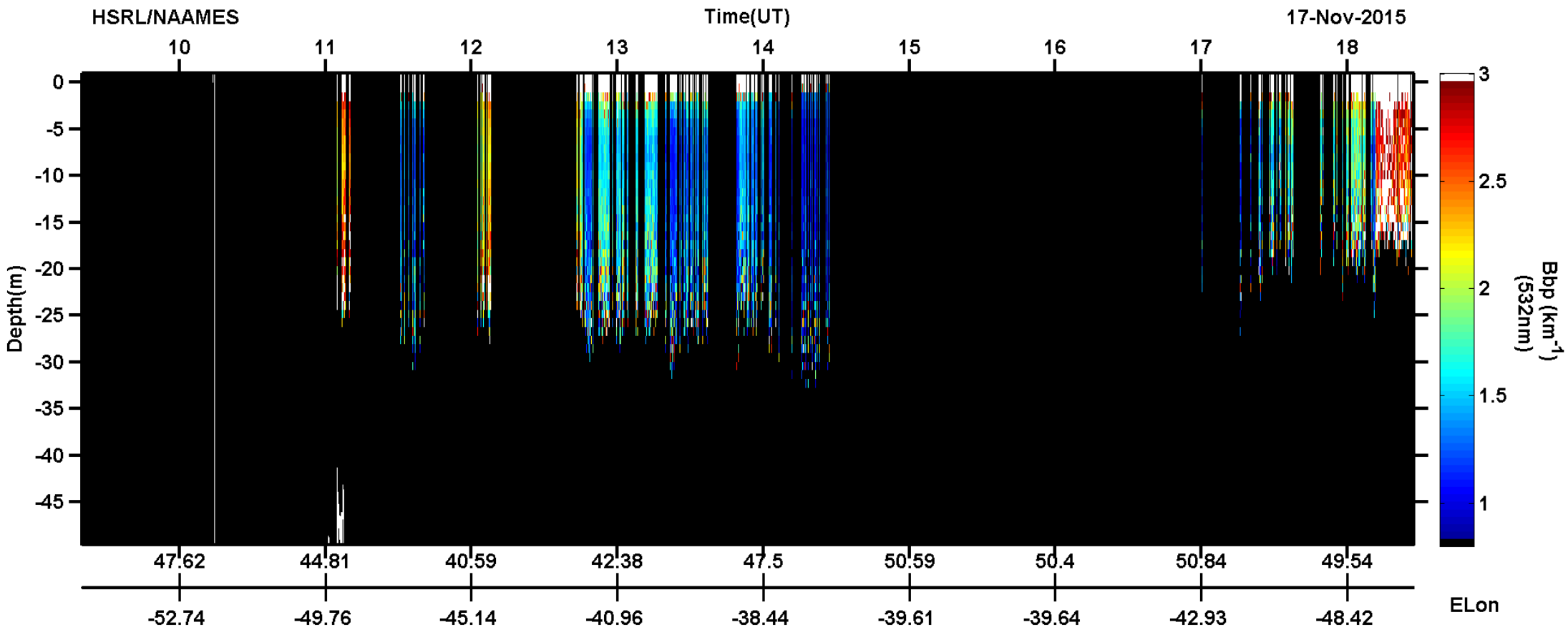

HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
Altitude(km)
6
5
4
3
2
1
Depth(m)
0
-20
-40
100
10
1
0.1
0.01
Aerosol Backscatter
(Mm-1sr-1)(532nm)
3
2
1
Bbp (km-1)
(532nm)
-52.74
-49.76
-45.14
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon

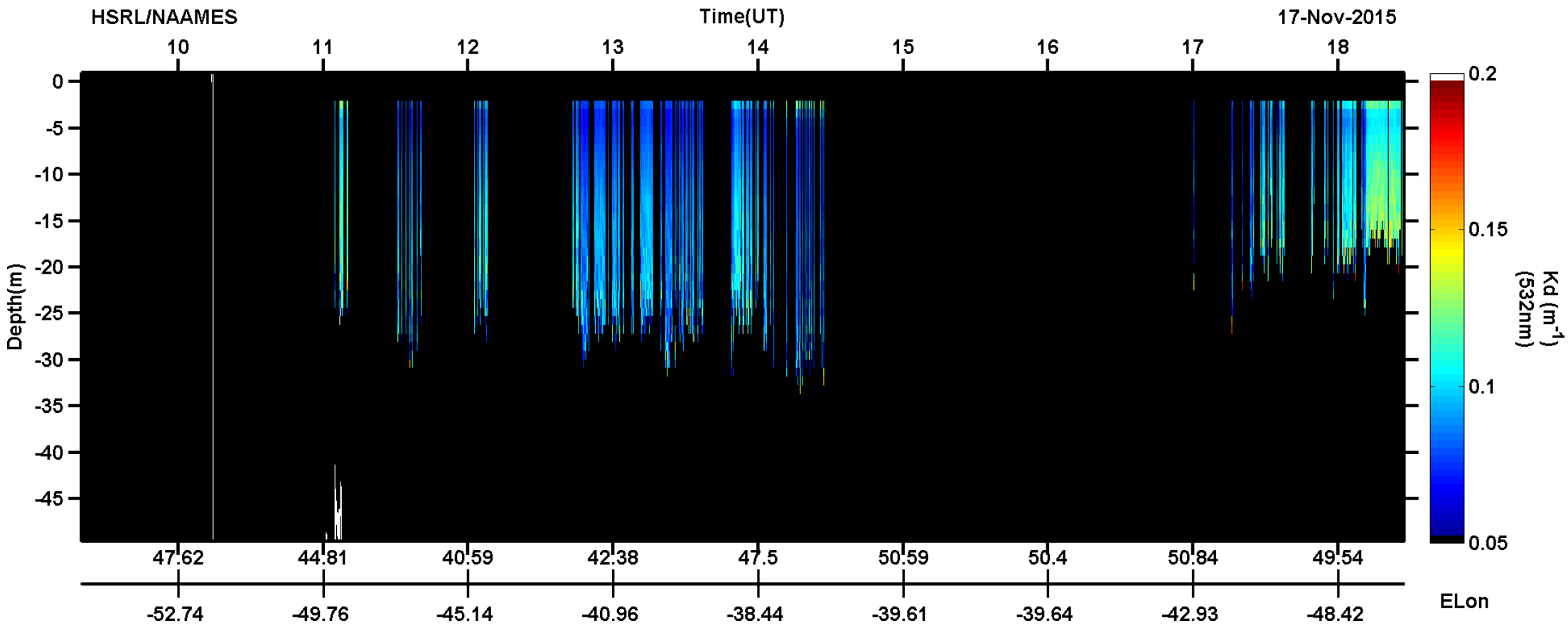

HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
Altitude(km)
6
5
4
3
2
1
Depth(m)
0
-20
-40
0.32
0.1
0.03
0.01
Aerosol Extinction
(km-1)(532nm)
0.2
0.15
0.1
0.05
Kd (m-1)
(532nm)
-52.74
-49.76
-45.14
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon


HBW Slope 20151117
50° N
45° N
40° N
55° W
50° W
45° W
40° W
0.12
0.11
0.1
0.09
0.08
0.07
0.06
KD


Kd derived from slope
Extinction (m-1)
Time (UT)
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
10
11
12
13
14
15
16
17
18
19


HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Depth(m)
47.62
44.81
40.59
42.38
47.5
50.59
50.4
50.84
49.54
-52.74
-49.76
-45.14
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon
10
6.31
3.98
2.51
1.58
1
0.63
0.4
0.25
0.16
0.1
Backscatter Coefficient
(km-1sr-1)(532nm)


HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Depth(m)
3
2.5
2
1.5
1
Bbp (km-1)
(532nm)
47.62
44.81
40.59
42.38
47.5
50.59
50.4
50.84
49.54
-52.74
-49.76
-45.14
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon


HSRL/NAAMES
Time(UT)
17-Nov-2015
10
11
12
13
14
15
16
17
18
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Depth(m)
0.2
0.15
0.1
0.05
Kd (m-1) (532nm)
47.62
44.81
40.59
42.38
47.5
50.59
50.4
50.84
49.54
-52.74
-49.76
-45.14
-40.96
-38.44
-39.61
-39.64
-42.93
-48.42
ELon