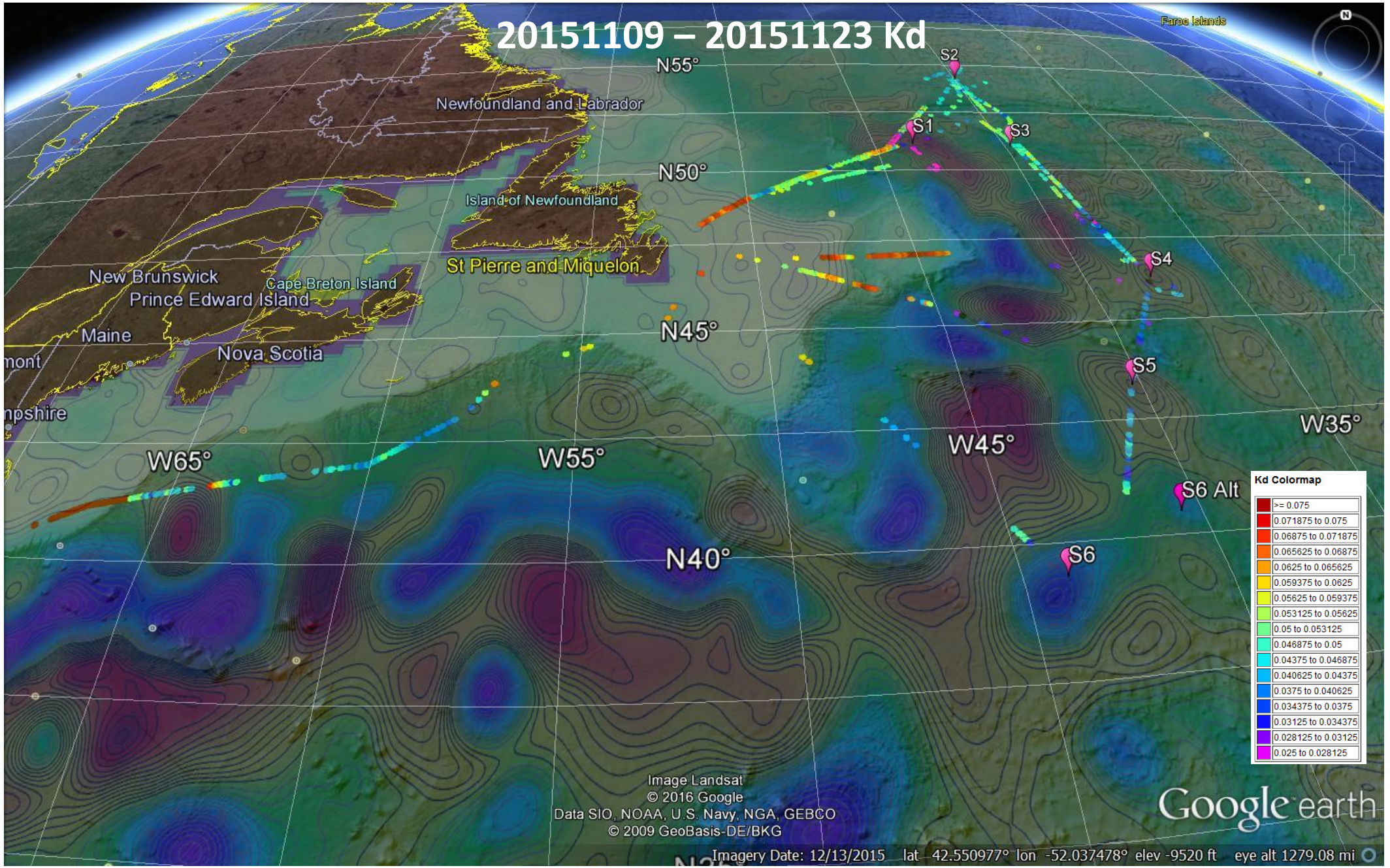
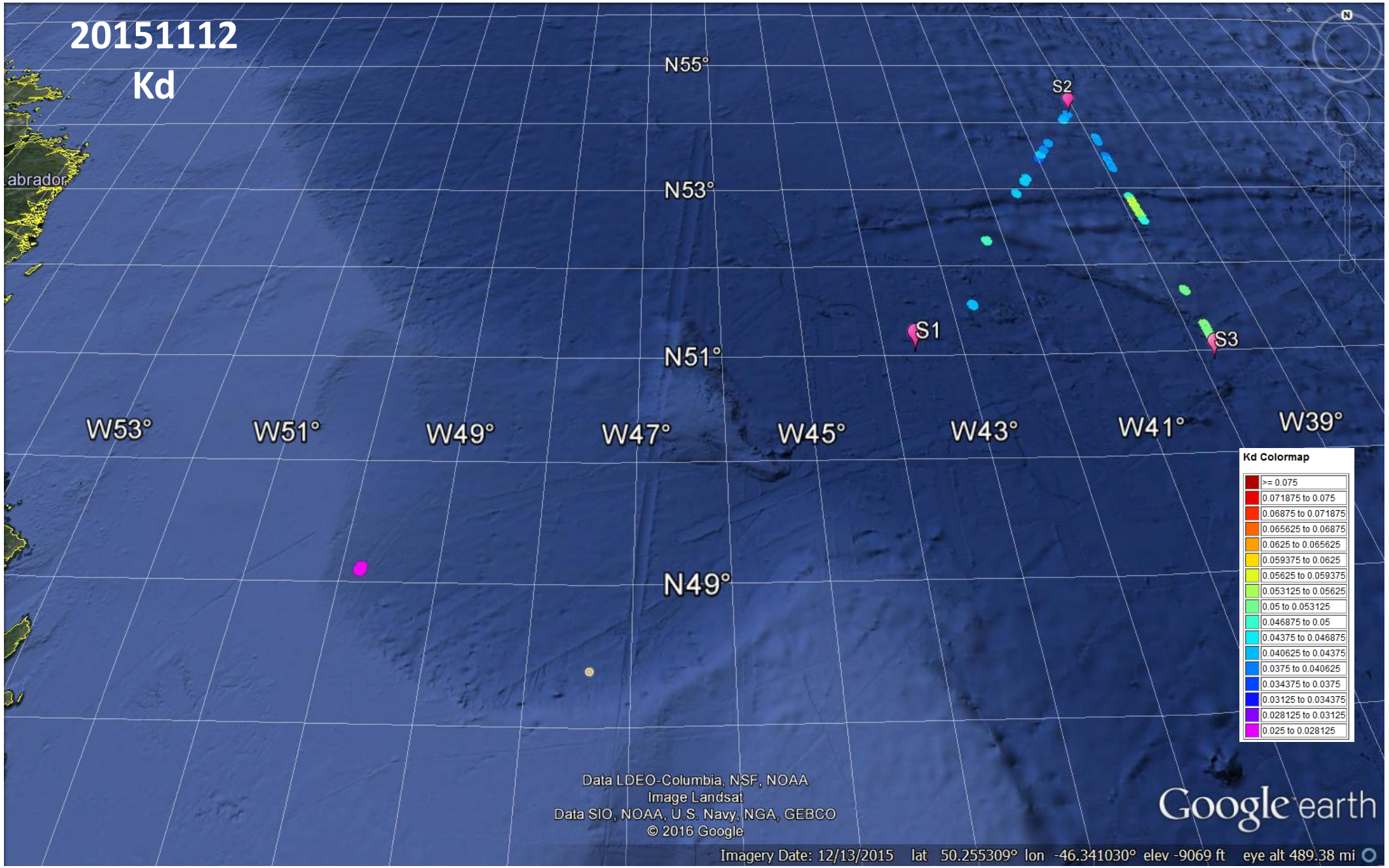
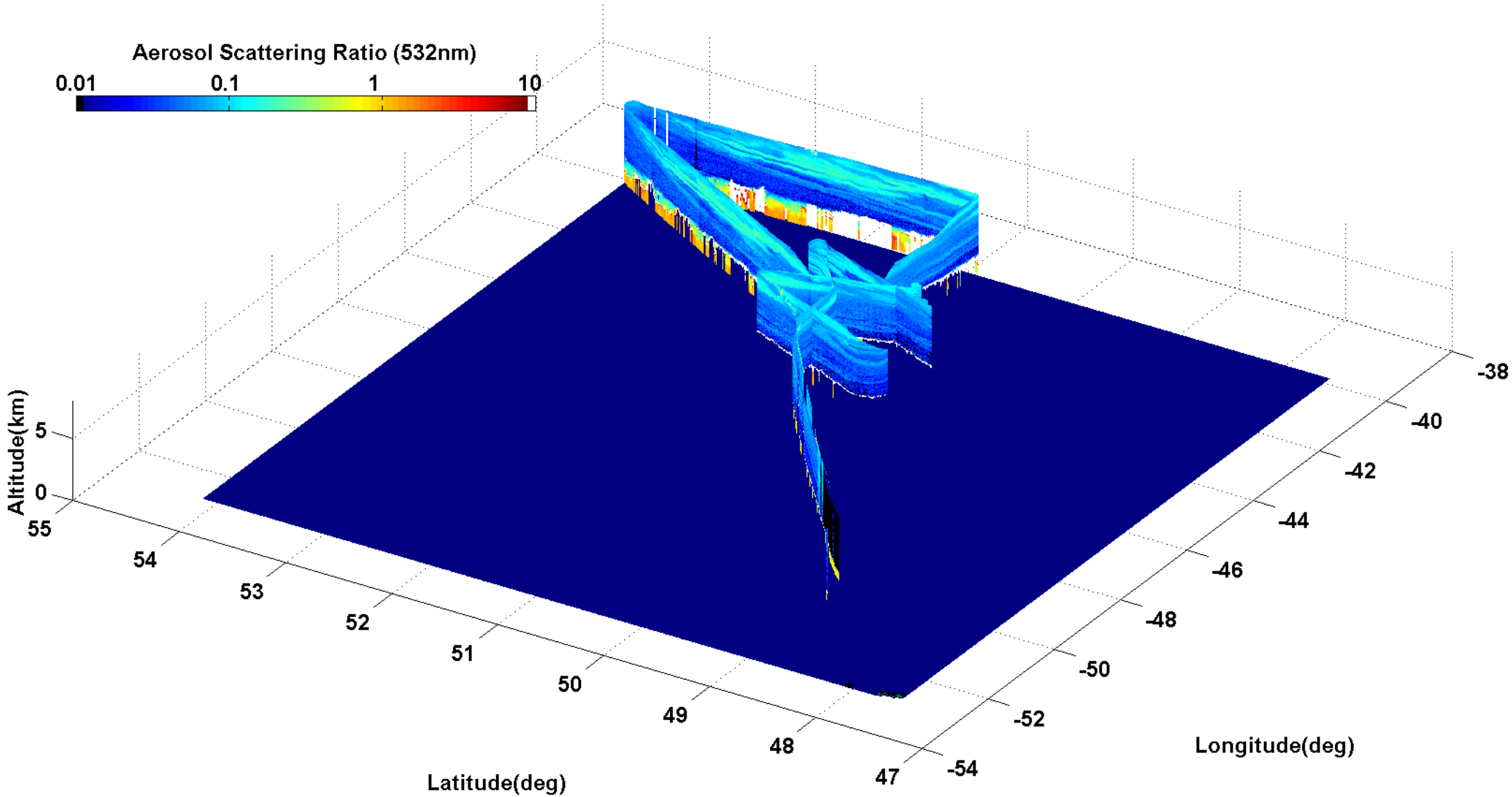
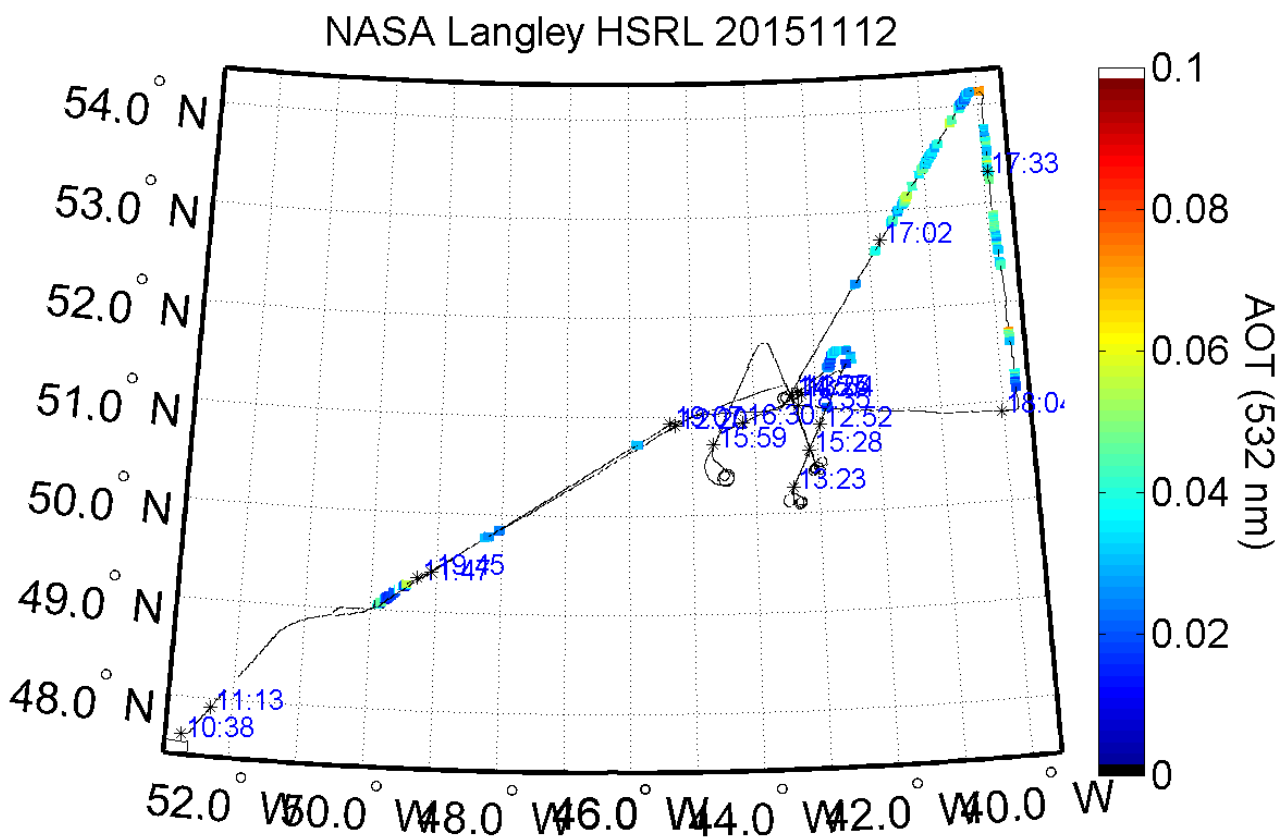
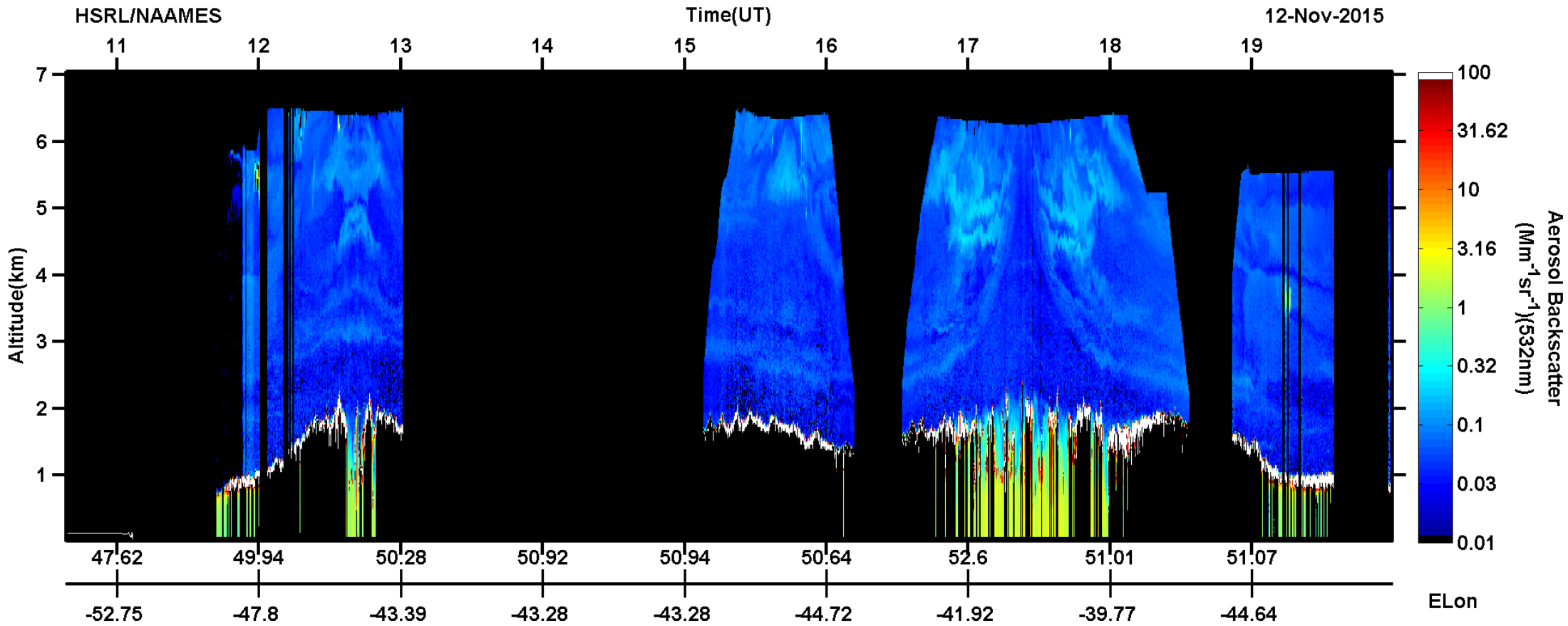
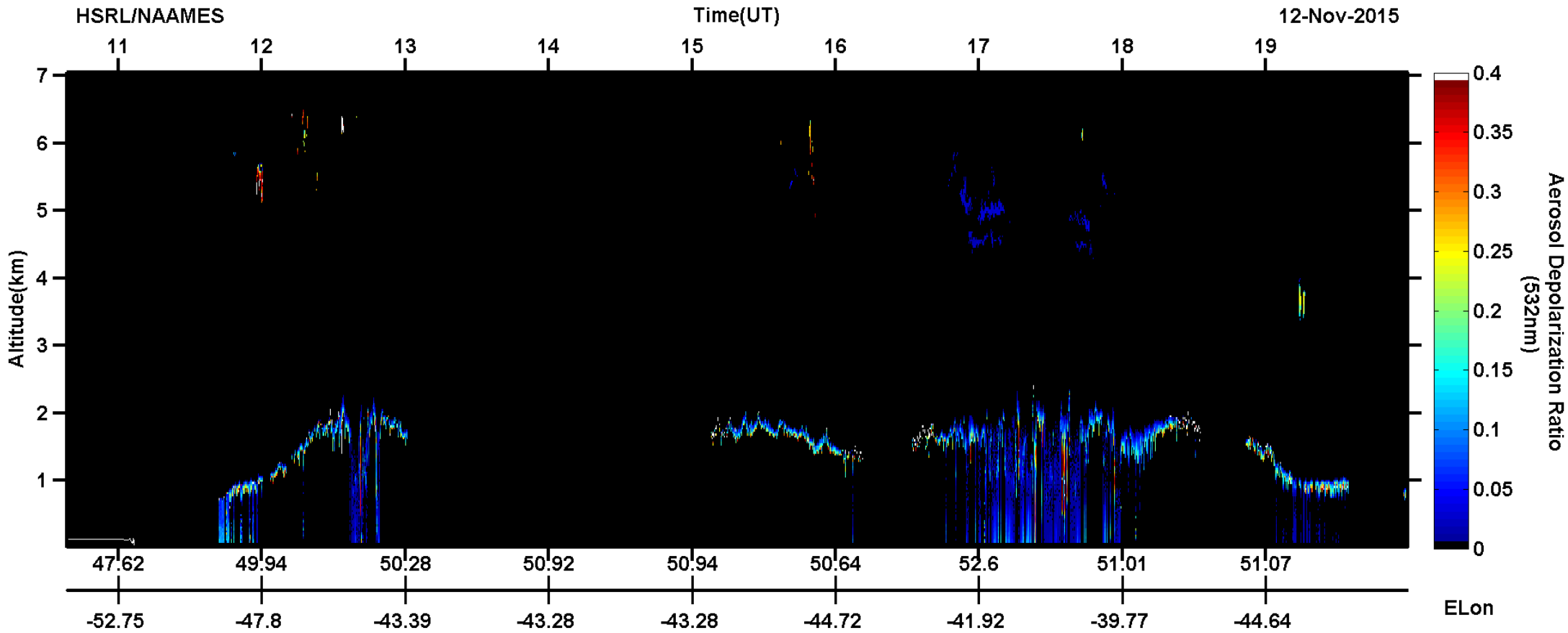

20151109 – 20151123 Kd
Faroe Islands
N55°
Newfoundland and Labrador
S2
S1
S3
N50°
Island of Newfoundland
St Pierre and Miquelon
S4
New Brunswick
Cape Breton Island
Prince Edward Island
Maine
Nova Scotia
N45°
S5
W35°
W65°
W55°
W45°
S6 Alt
N40°
S6
Kd Colormap
>= 0.075
0.071875 to 0.075
0.06875 to 0.071875
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

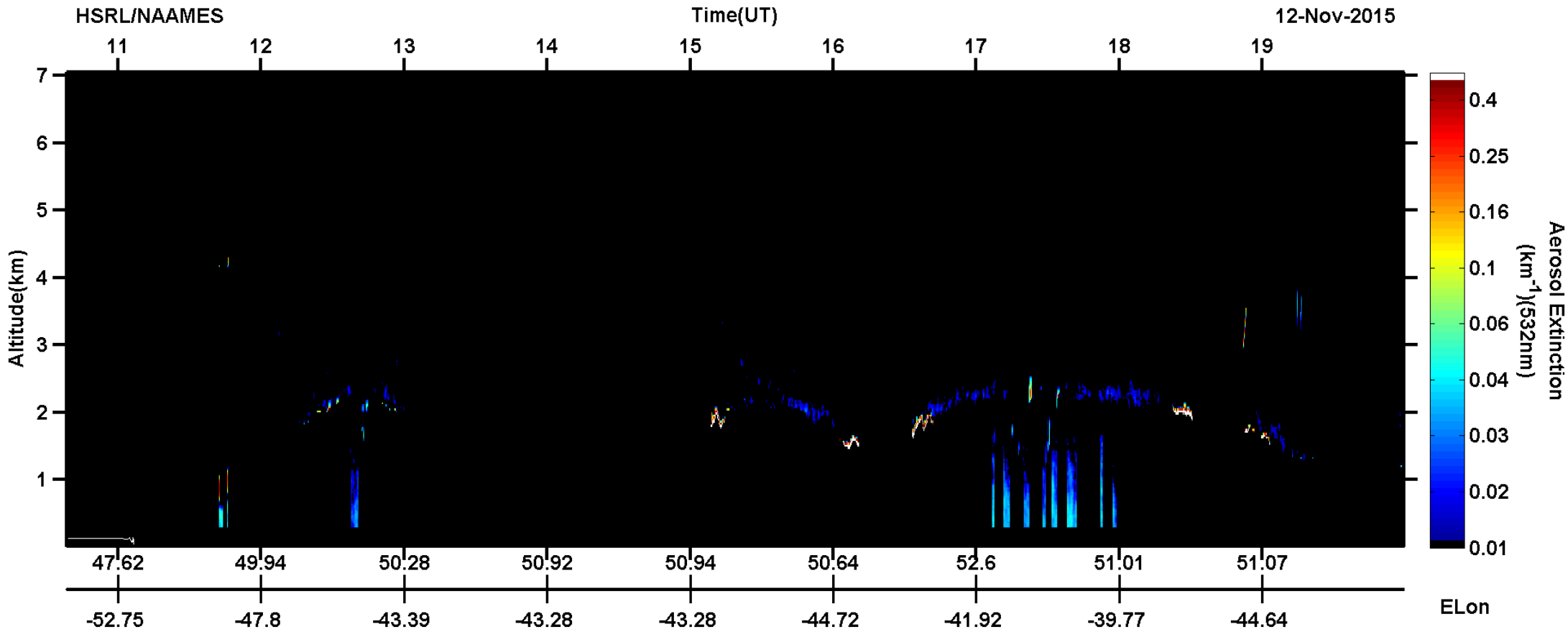

20151112
Kd
N55°
N53°
N51°
N49°
W53°
W51°
W49°
W47°
W45°
W43°
W41°
W39°
S1
S2
S3
Kd Colormap
>= 0.075
0.071875 to 0.075
0.06875 to 0.071875
0.065625 to 0.06875
0.0625 to 0.065625
0.059375 to 0.0625
0.05625 to 0.059375
0.053125 to 0.05625
0.05 to 0.053125
0.046875 to 0.05
0.04375 to 0.046875
0.040625 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
Data LDEO-Columbia, NSF, NOAA
Image Landsat
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2016 Google
Google earth
Imagery Date: 12/13/2015 lat 50.255309° lon -46.341030° elev -9069 ft eye alt 489.38 mi

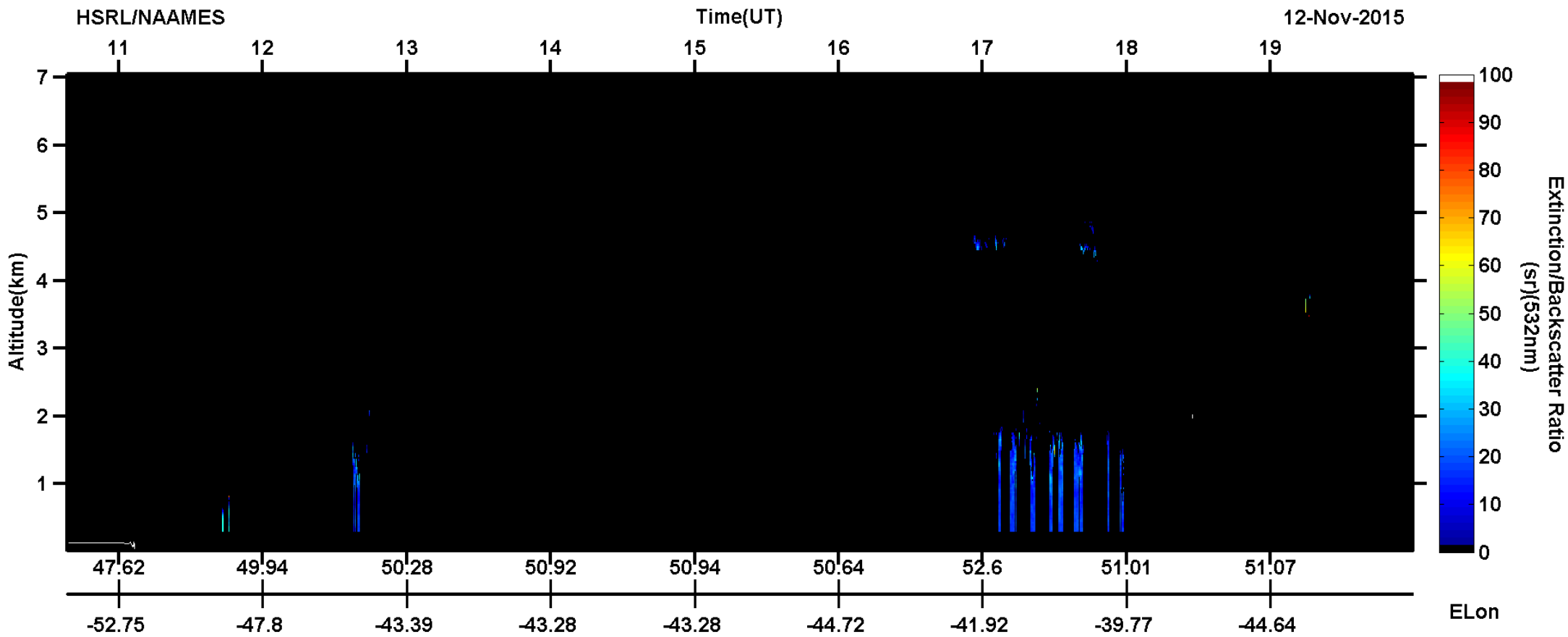

Aerosol Scattering Ratio (532nm)
0.01
0.1
1
10
Altitude(km)
5
0
55
54
53
52
51
50
49
48
47
Latitude(deg)
-54
-52
-50
-48
-46
-44
-42
-40
-38
Longitude(deg)

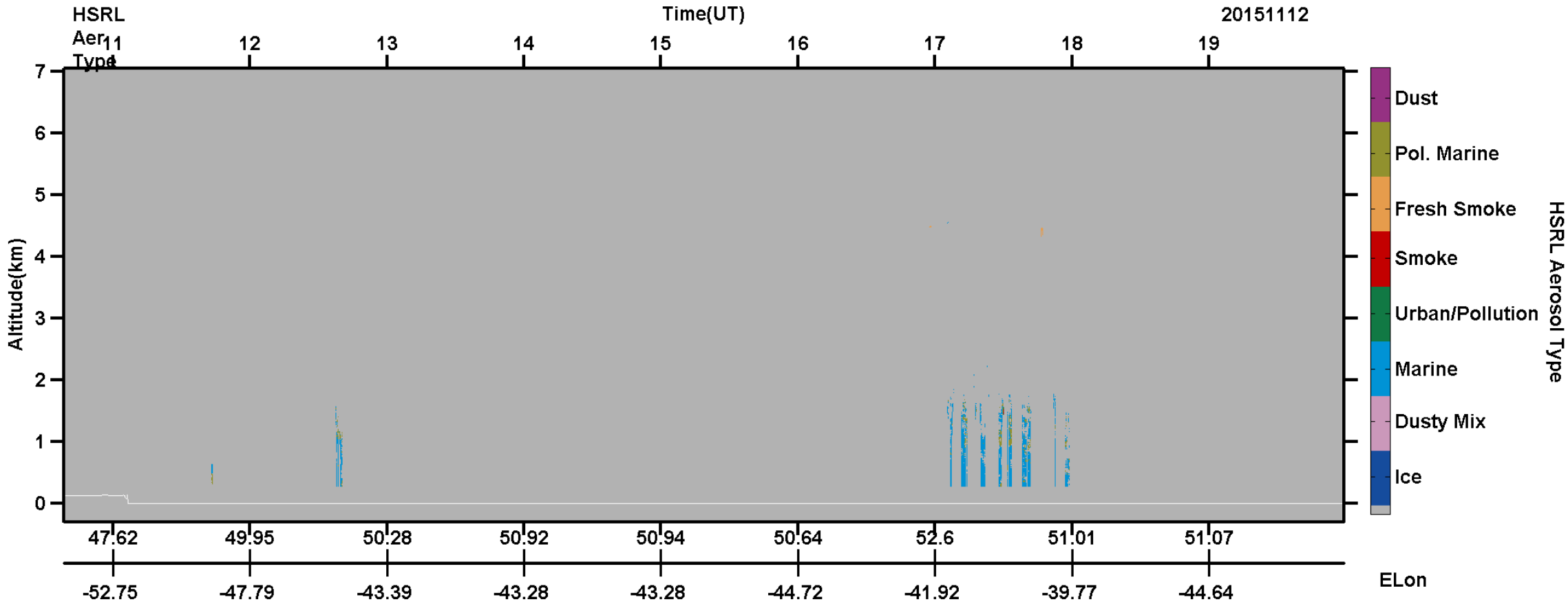

NASA Langley HSRL 20151112
54.0° N
53.0° N
52.0° N
51.0° N
50.0° N
49.0° N
48.0° N
52.0° W
50.0° W
48.0° W
46.0° W
44.0° W
42.0° W
40.0° W
10:38
11:13
17:33
17:02
15:59
15:28
13:23
0.1
0.08
0.06
0.04
0.02
0
AOT (532 nm)

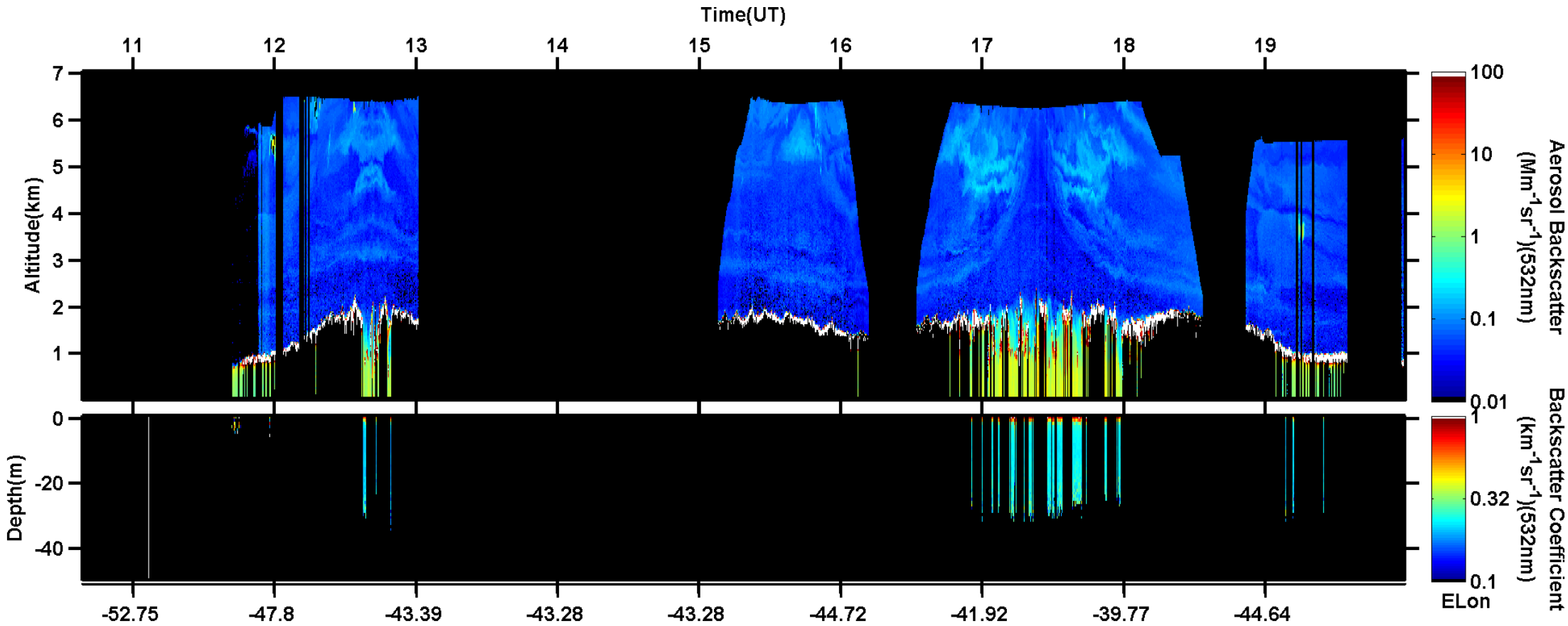

HSRL/NAAMES
Time(UT)
12-Nov-2015
11
12
13
14
15
16
17
18
19
Altitude(km)
7
6
5
4
3
2
1
47.62
49.94
50.28
50.92
50.94
50.64
52.6
51.01
51.07
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon
100
31.62
10
3.16
1
0.32
0.1
0.03
0.01
Aerosol Backscatter
(Mm-1sr-1)(532nm)

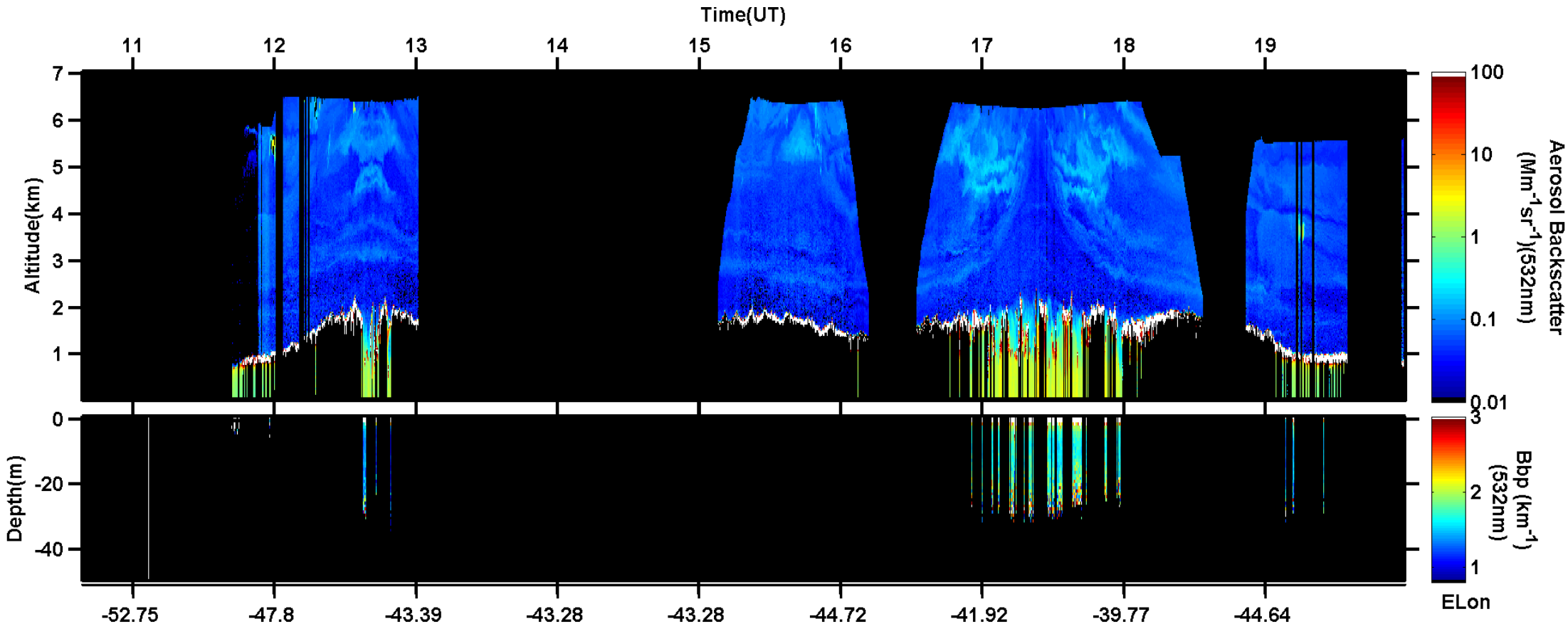

HSRL/NAAMES
Time(UT)
12-Nov-2015
11
12
13
14
15
16
17
18
19
Altitude(km)
7
6
5
4
3
2
1
47.62
49.94
50.28
50.92
50.94
50.64
52.6
51.01
51.07
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Aerosol Depolarization Ratio
(532nm)

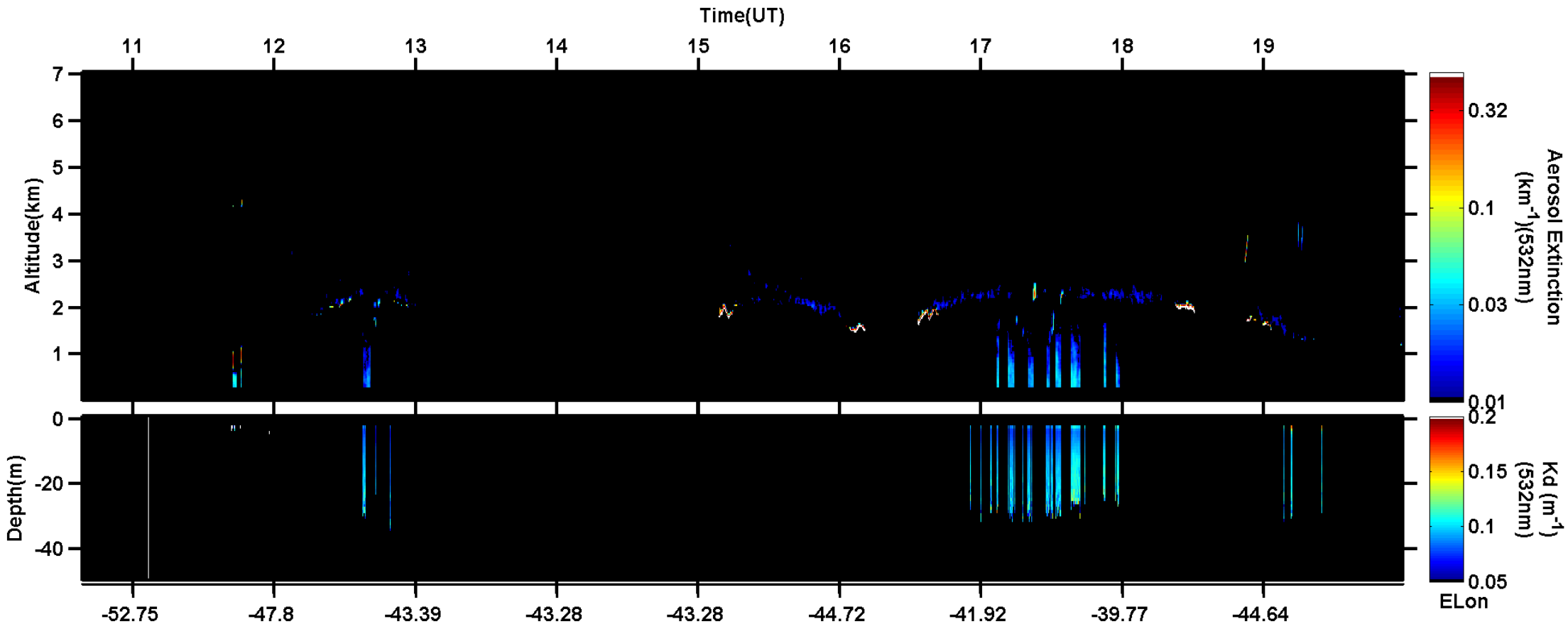

HSRL/NAAMES
Time(UT)
12-Nov-2015
11
12
13
14
15
16
17
18
19
Altitude(km)
7
6
5
4
3
2
1
47.62
49.94
50.28
50.92
50.94
50.64
52.6
51.01
51.07
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon
0.4
0.25
0.16
0.1
0.06
0.04
0.03
0.02
0.01
Aerosol Extinction
(km-1)(532nm)

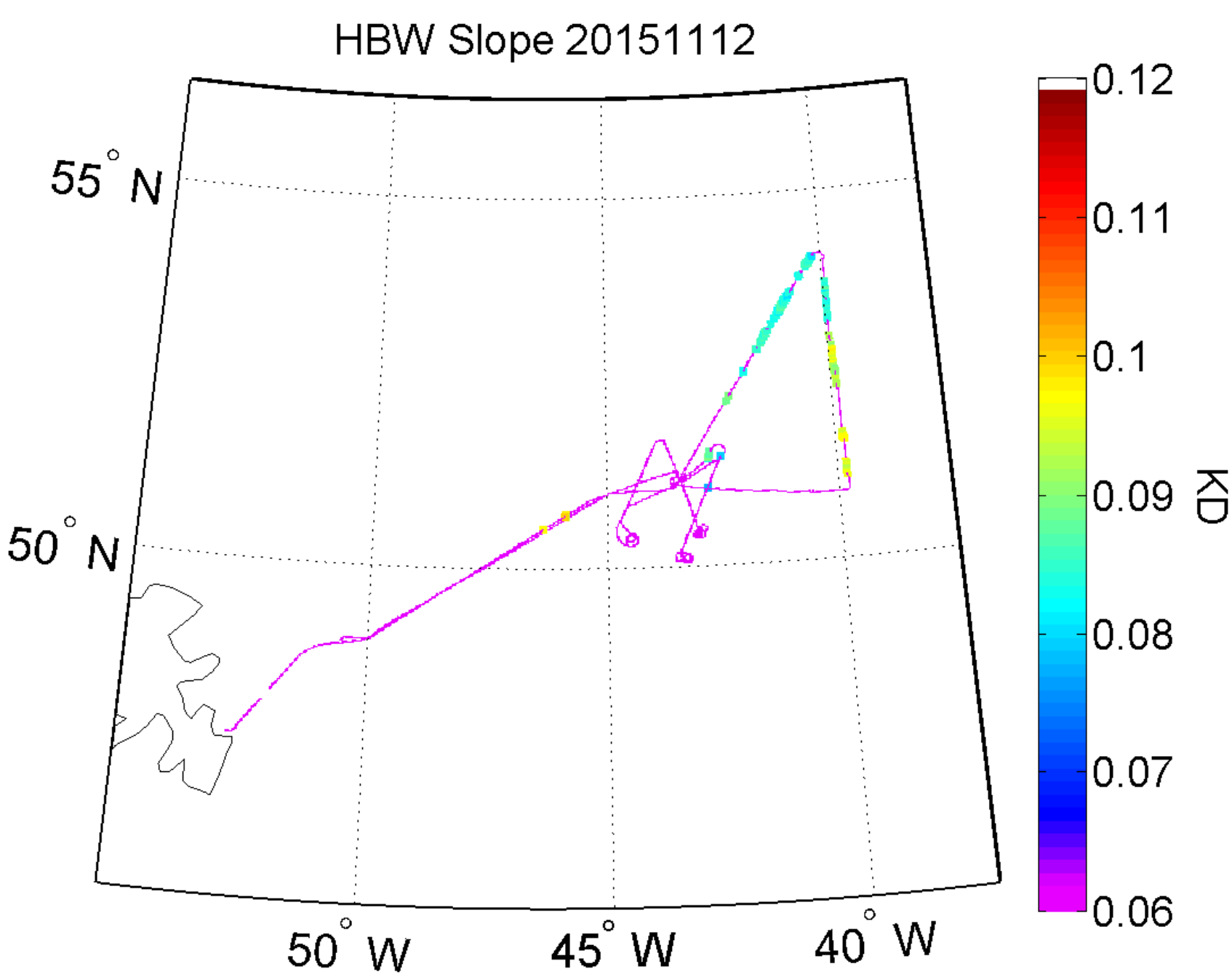

HSRL/NAAMES
Time(UT)
12-Nov-2015
11
12
13
14
15
16
17
18
19
Altitude(km)
7
6
5
4
3
2
1
47.62
49.94
50.28
50.92
50.94
50.64
52.6
51.01
51.07
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon
100
90
80
70
60
50
40
30
20
10
0
Extinction/Backscatter Ratio
(sr)(532nm)

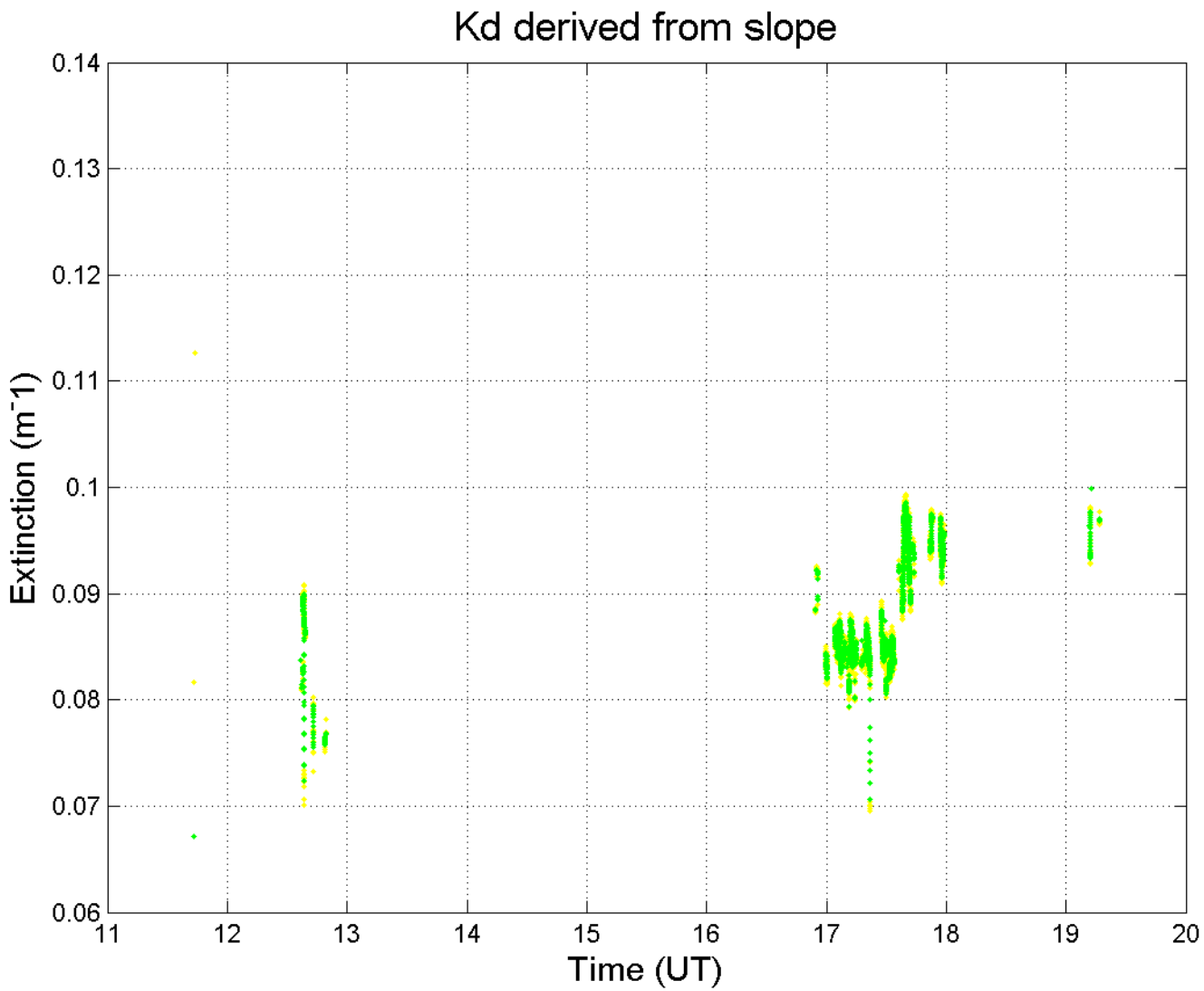

HSRL
Aer
Type
Time(UT)
20151112
11
12
13
14
15
16
17
18
19
Altitude(km)
7
6
5
4
3
2
1
0
47.62
49.95
50.28
50.92
50.94
50.64
52.6
51.01
51.07
-52.75
-47.79
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon
Dust
Pol. Marine
Fresh Smoke
Smoke
Urban/Pollution
Marine
Dusty Mix
Ice
HSRL Aerosol Type

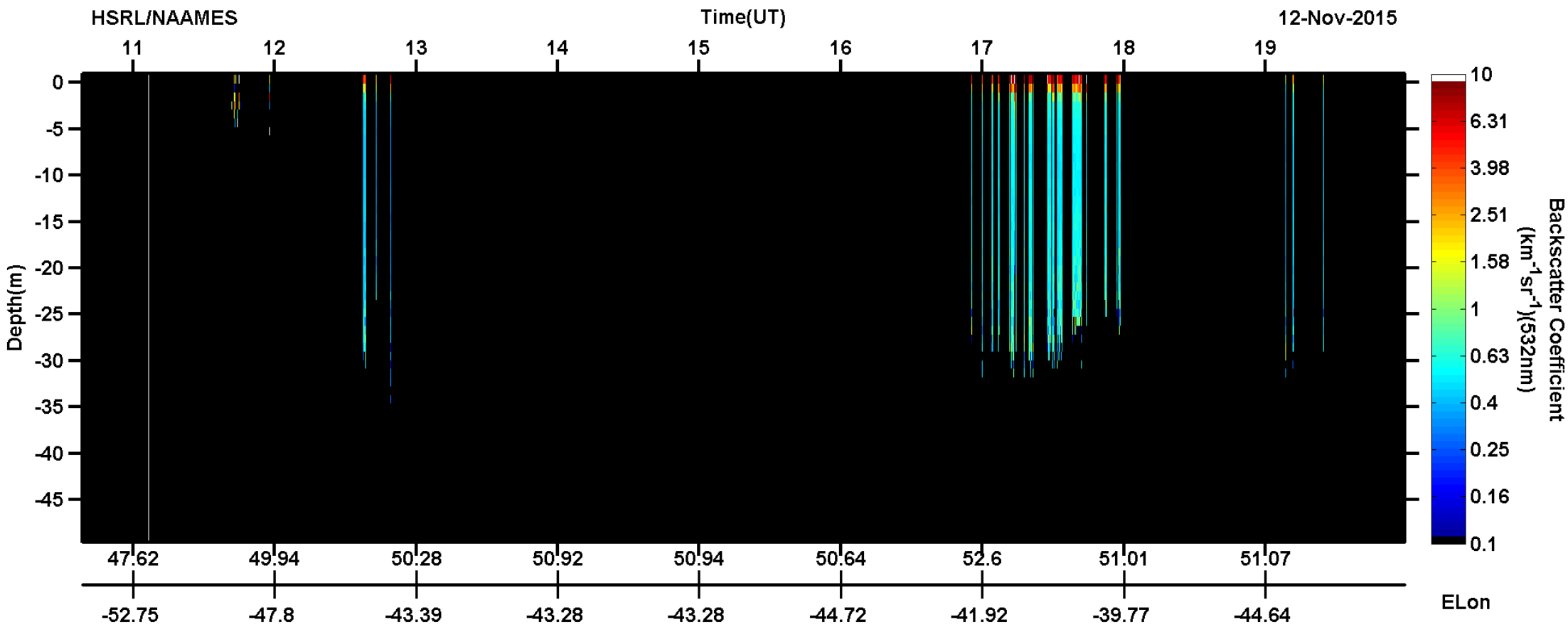

Time(UT)
11
12
13
14
15
16
17
18
19
Altitude(km)
7
6
5
4
3
2
1
Depth(m)
0
-20
-40
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon
100
10
1
0.1
0.01
Aerosol Backscatter
(Mm-1sr-1)(532nm)
1
0.32
0.1
Backscatter Coefficient
(km-1sr-1)(532nm)

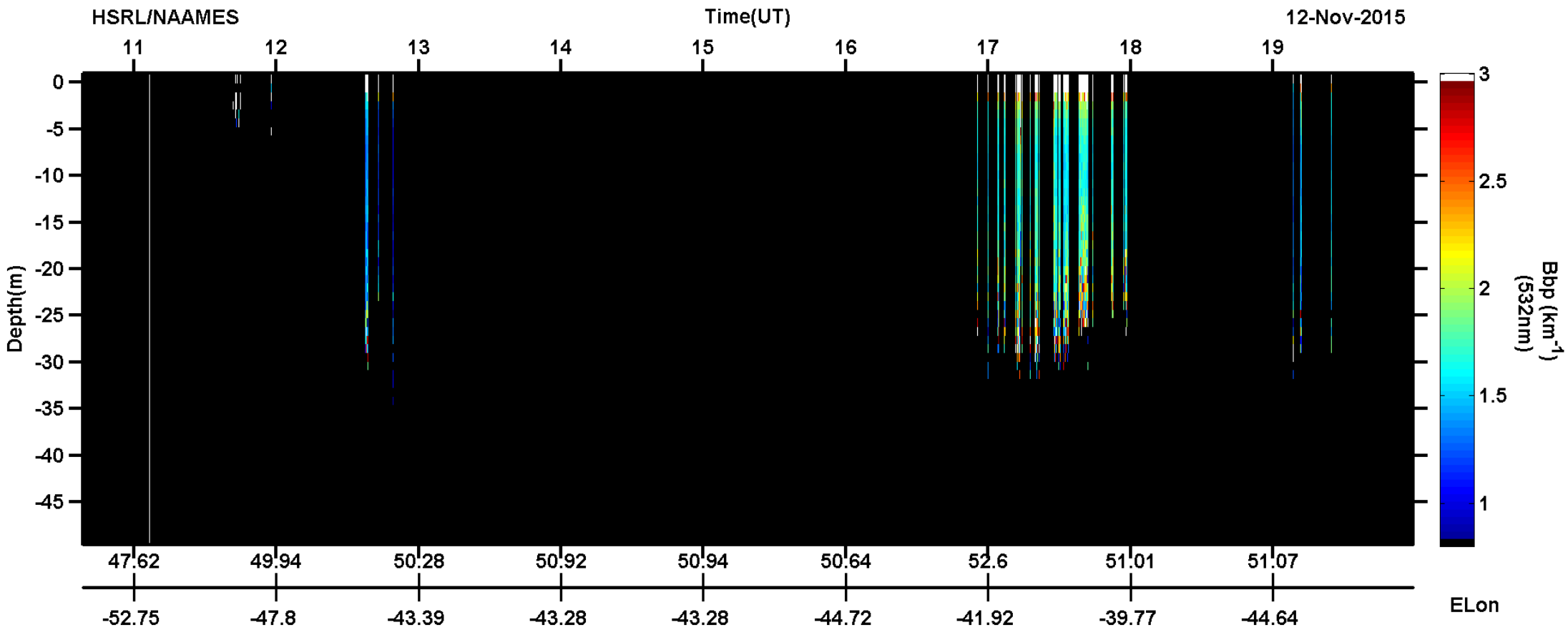

Time(UT)
11
12
13
14
15
16
17
18
19
Altitude(km)
7
6
5
4
3
2
1
Depth(m)
0
-20
-40
Aerosol Backscatter (Mm-1sr-1)(532nm)
100
10
1
0.1
0.01
Bbp (km-1) (532nm)
3
2
1
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon

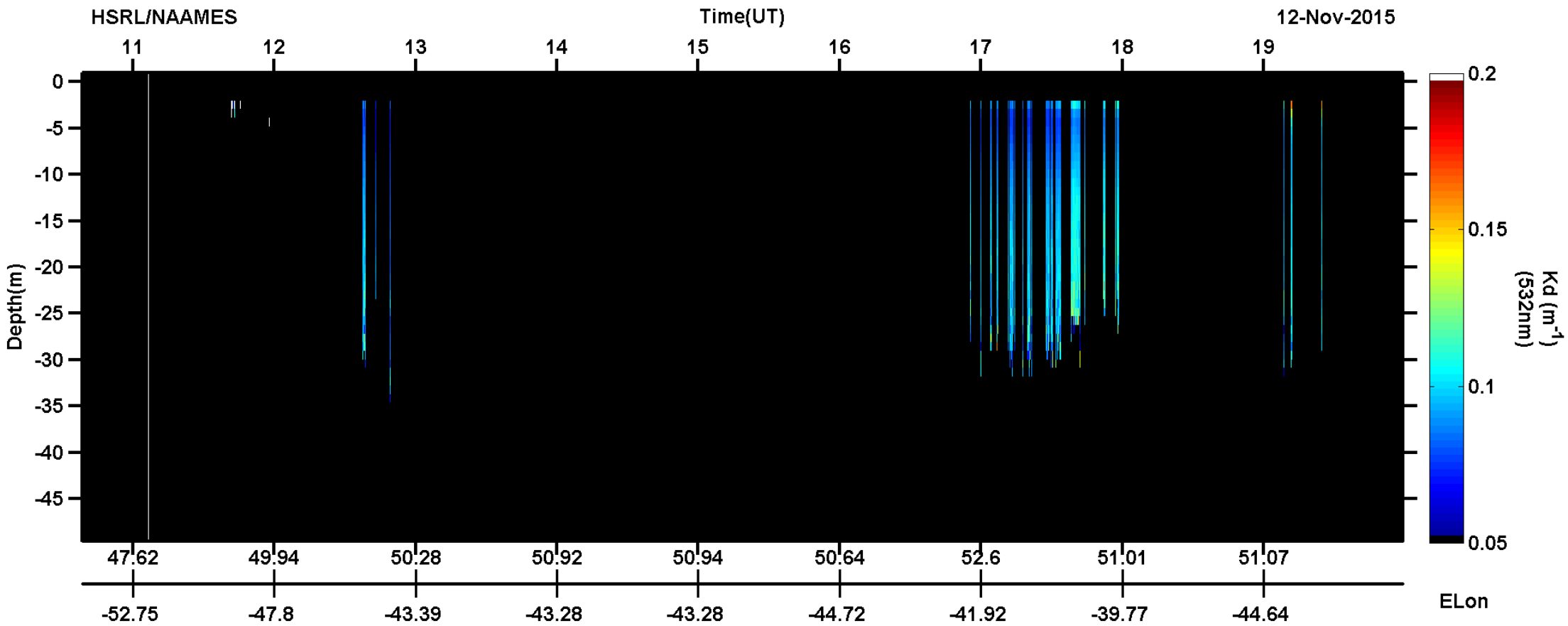

Time(UT)
11
12
13
14
15
16
17
18
19
Altitude(km)
7
6
5
4
3
2
1
Depth(m)
0
-20
-40
0.32
0.1
0.03
0.01
Aerosol Extinction
(km-1)(532nm)
0.2
0.15
0.1
0.05
Kd (m-1)
(532nm)
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon


HBW Slope 20151112
55° N
50° N
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)
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
11
12
13
14
15
16
17
18
19
20
Time (UT)


HSRL/NAAMES
Time(UT)
12-Nov-2015
11
12
13
14
15
16
17
18
19
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Depth(m)
47.62
49.94
50.28
50.92
50.94
50.64
52.6
51.01
51.07
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
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)
12-Nov-2015
11
12
13
14
15
16
17
18
19
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
49.94
50.28
50.92
50.94
50.64
52.6
51.01
51.07
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon


HSRL/NAAMES
Time(UT)
12-Nov-2015
11
12
13
14
15
16
17
18
19
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
49.94
50.28
50.92
50.94
50.64
52.6
51.01
51.07
-52.75
-47.8
-43.39
-43.28
-43.28
-44.72
-41.92
-39.77
-44.64
ELon