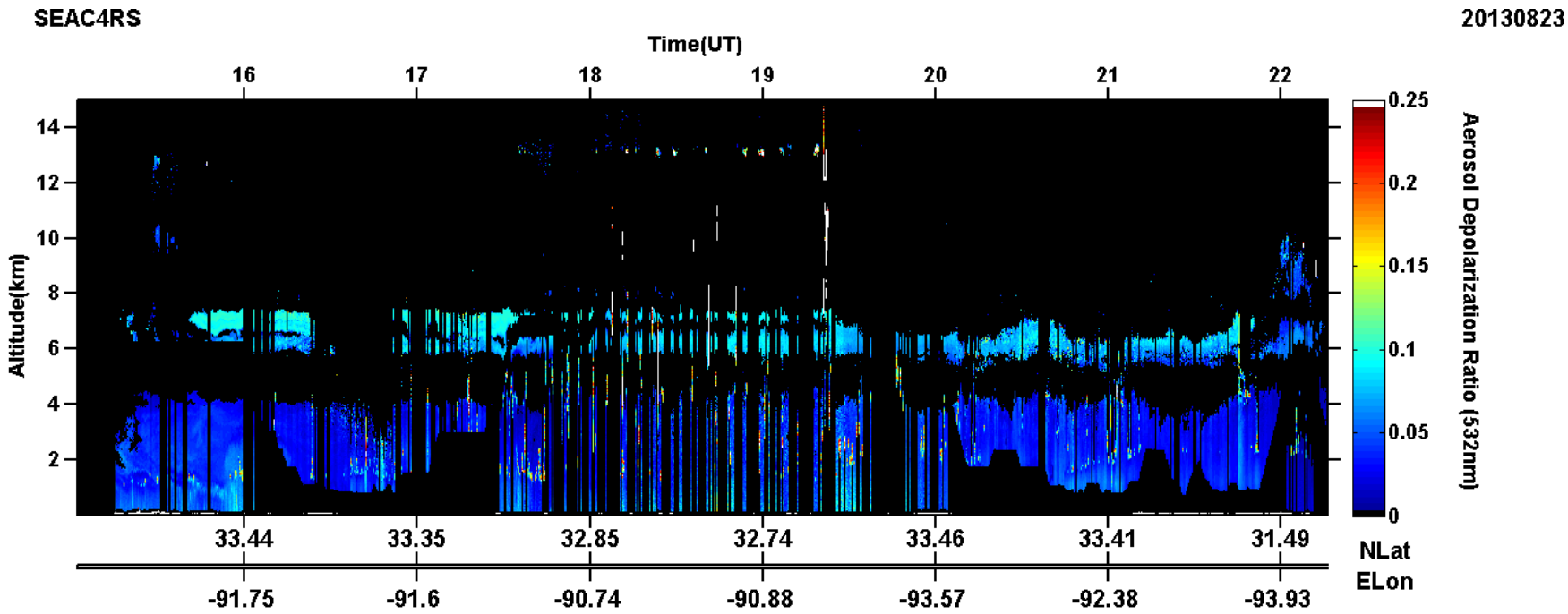
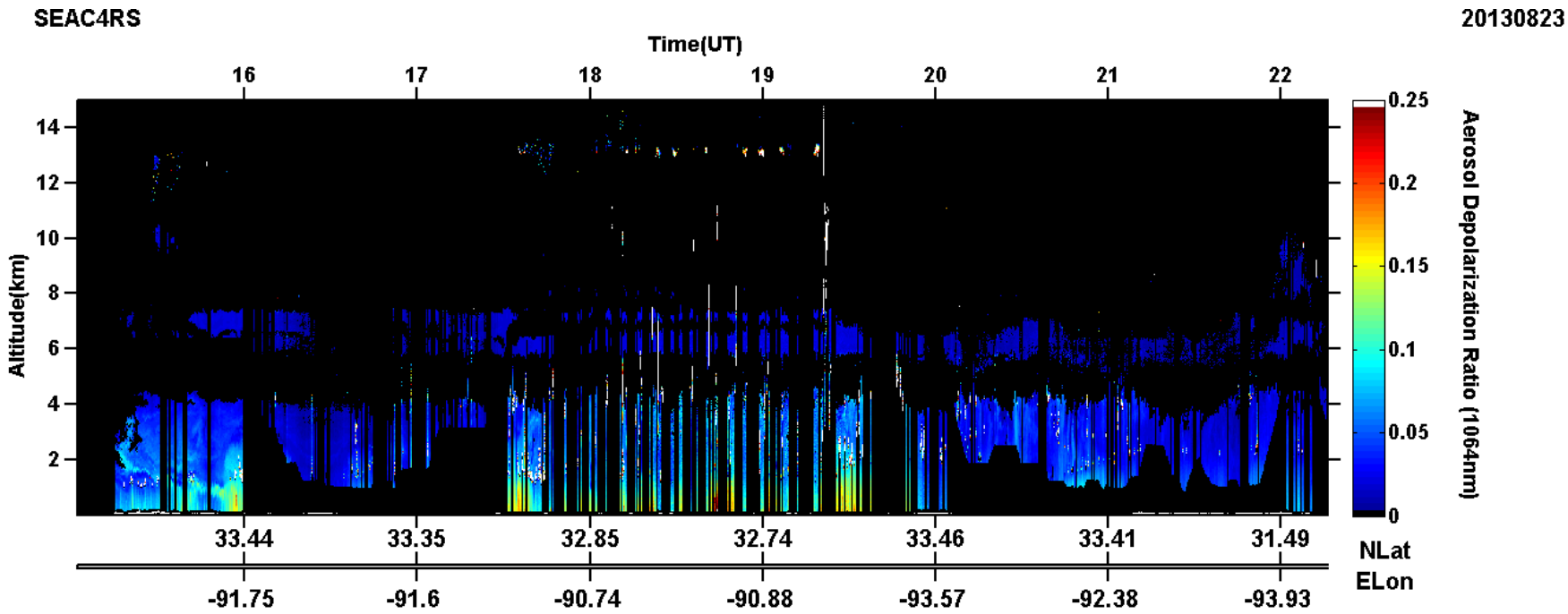
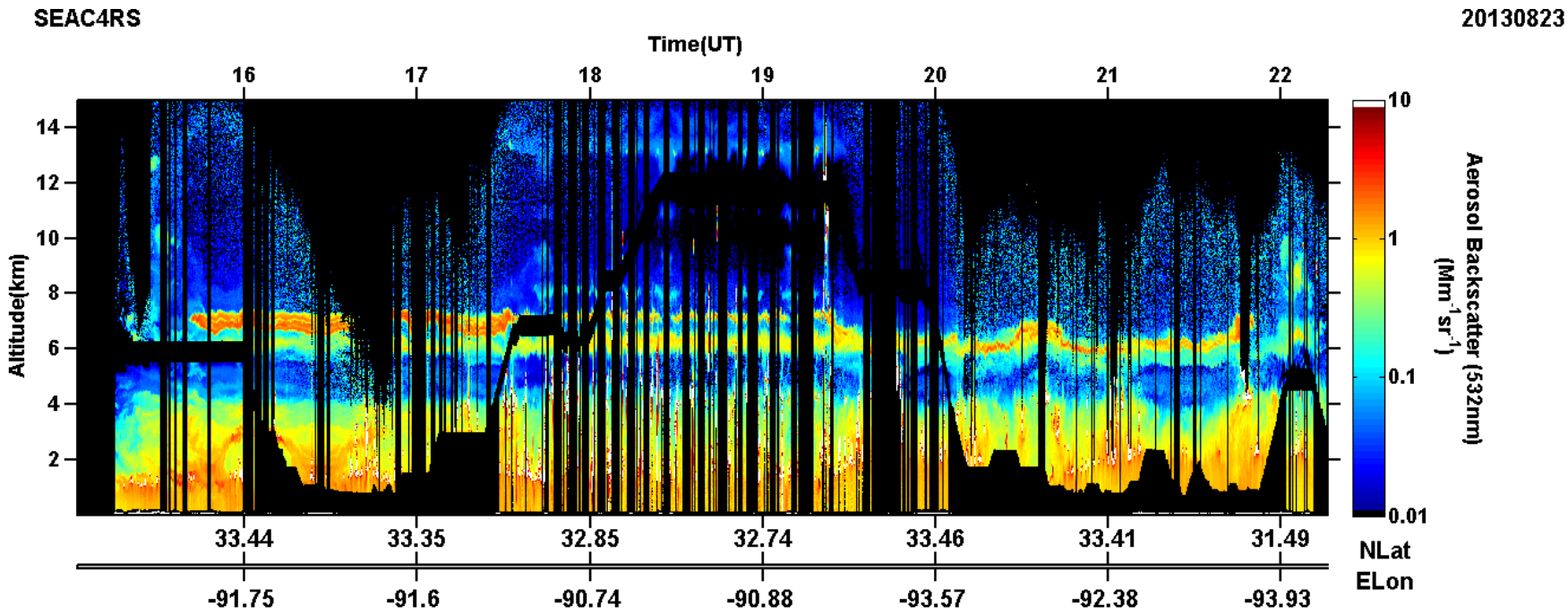
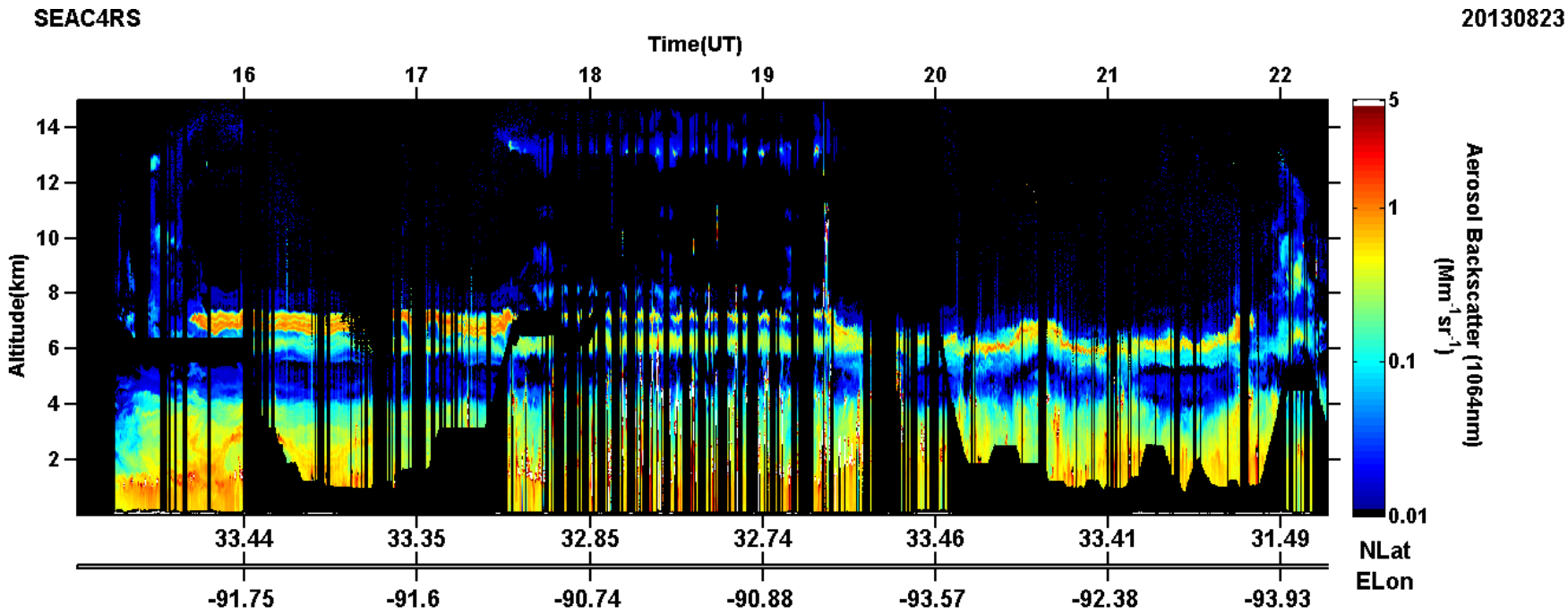
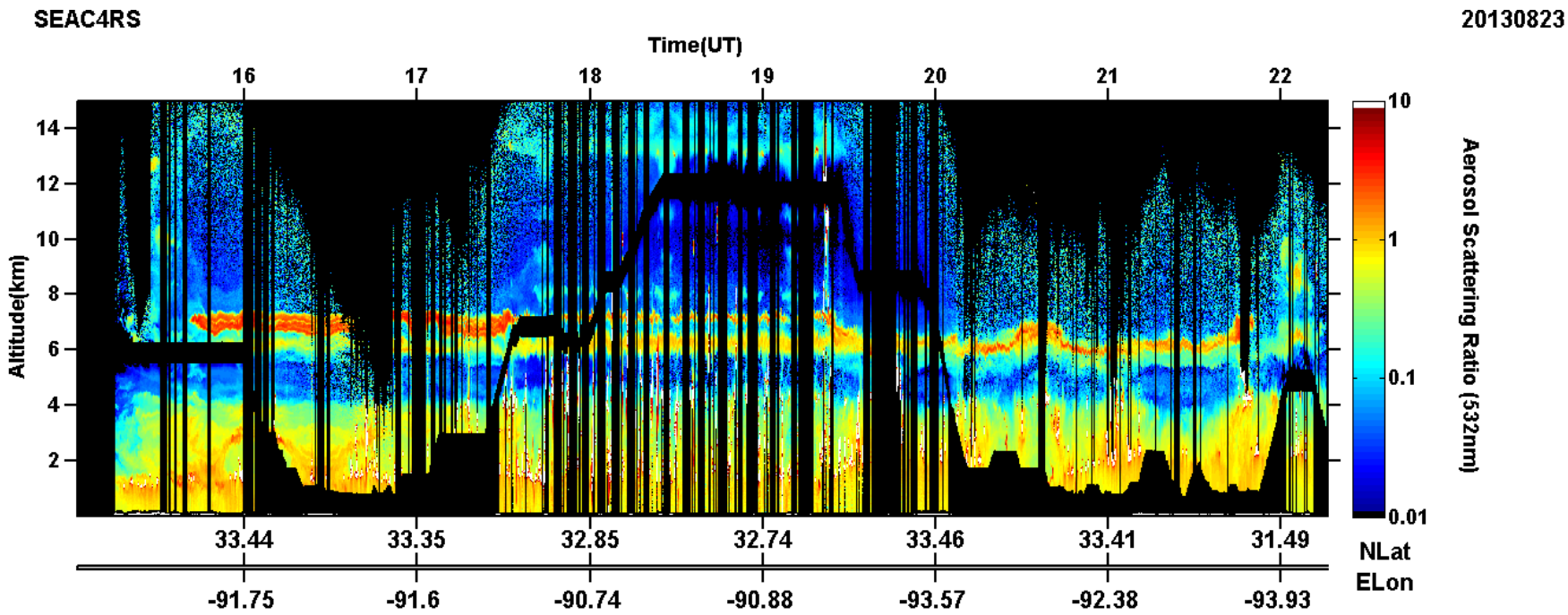
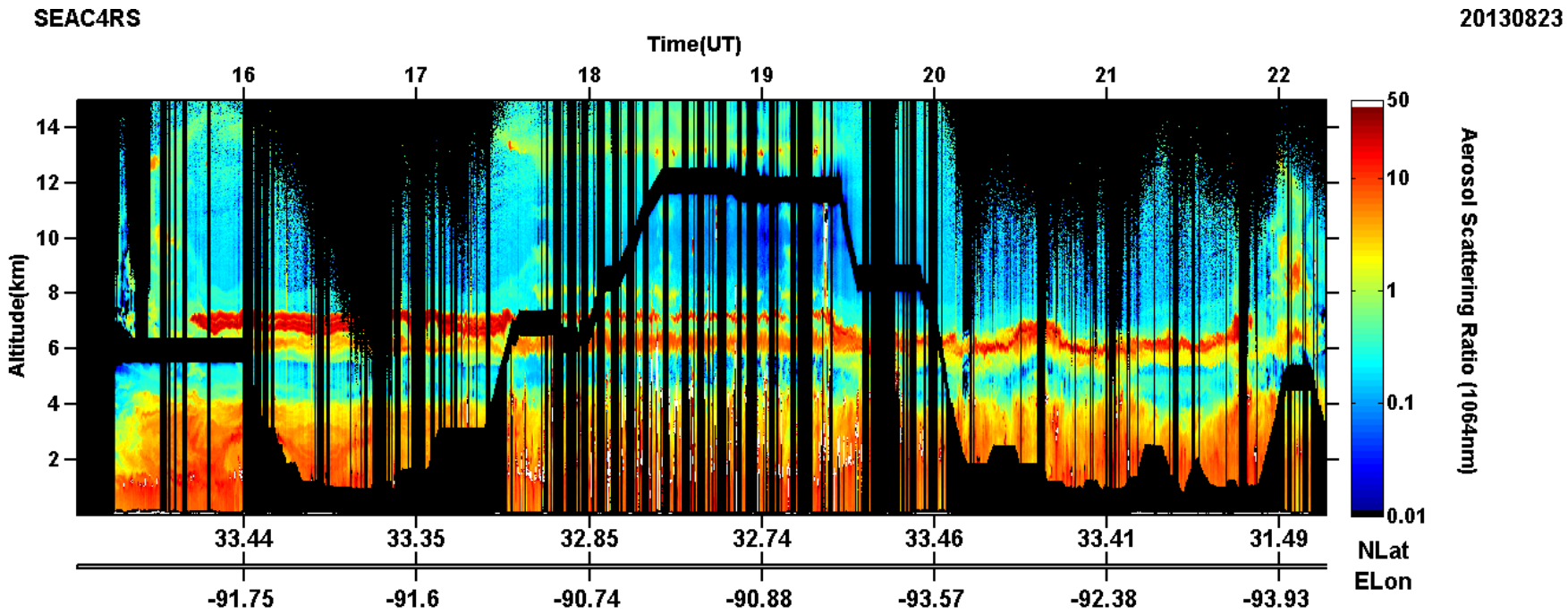

SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
NLat
ELon
0.25
0.2
0.15
0.1
0.05
0
Aerosol Depolarization Ratio (532nm)

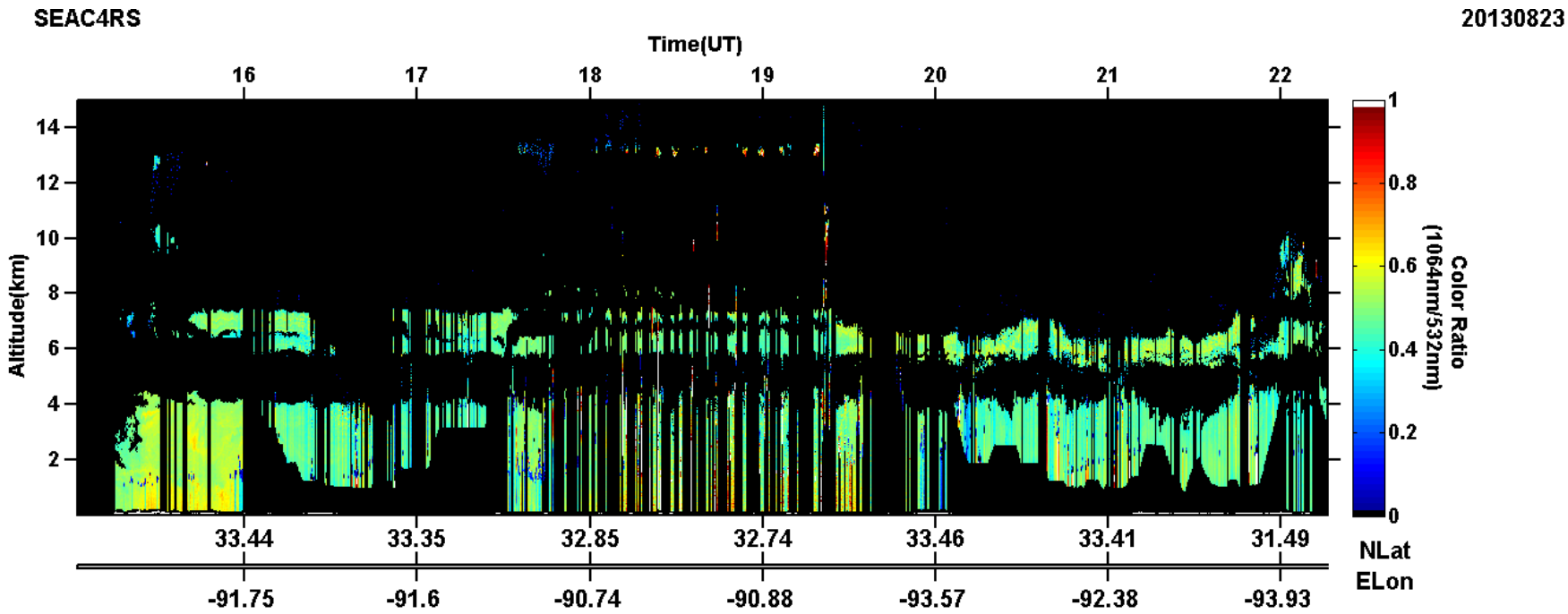

SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
NLat
ELon
0.25
0.2
0.15
0.1
0.05
0
Aerosol Depolarization Ratio (1064nm)

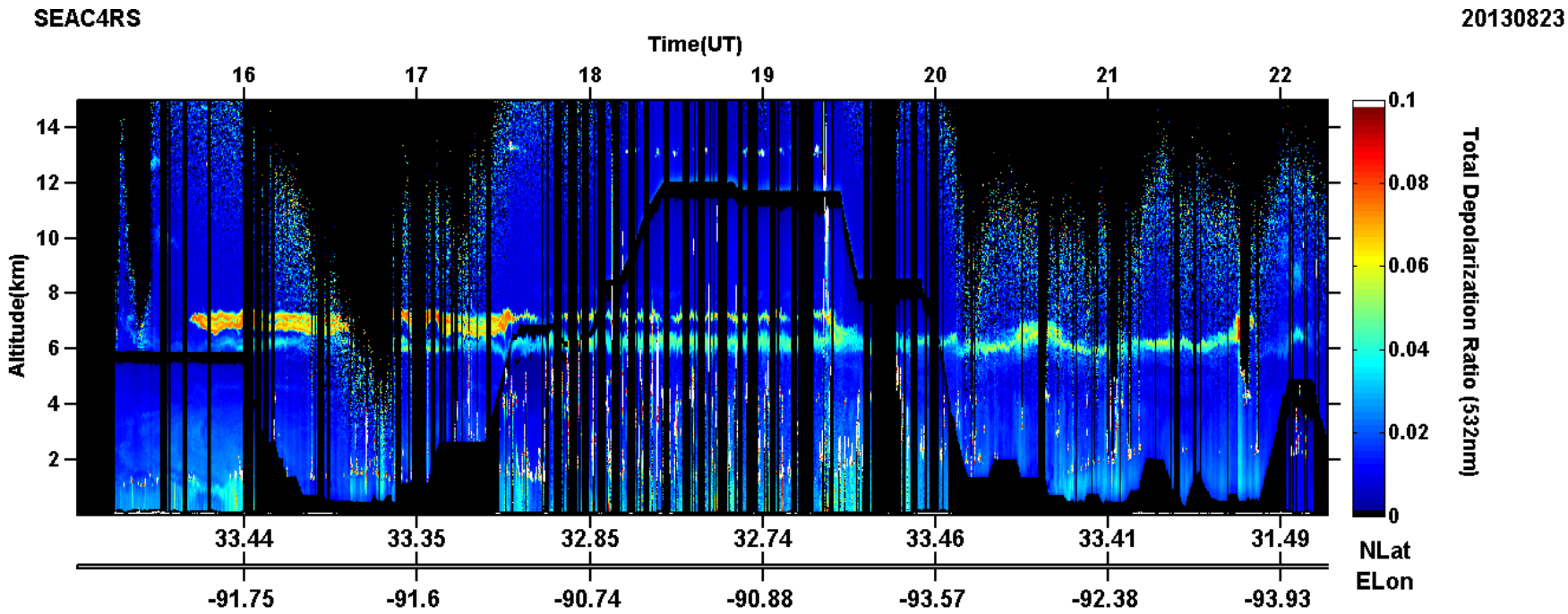

SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
NLat
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
ELon
10
1
0.1
0.01
Aerosol Backscatter (532nm)
(Mm-1 sr-1)

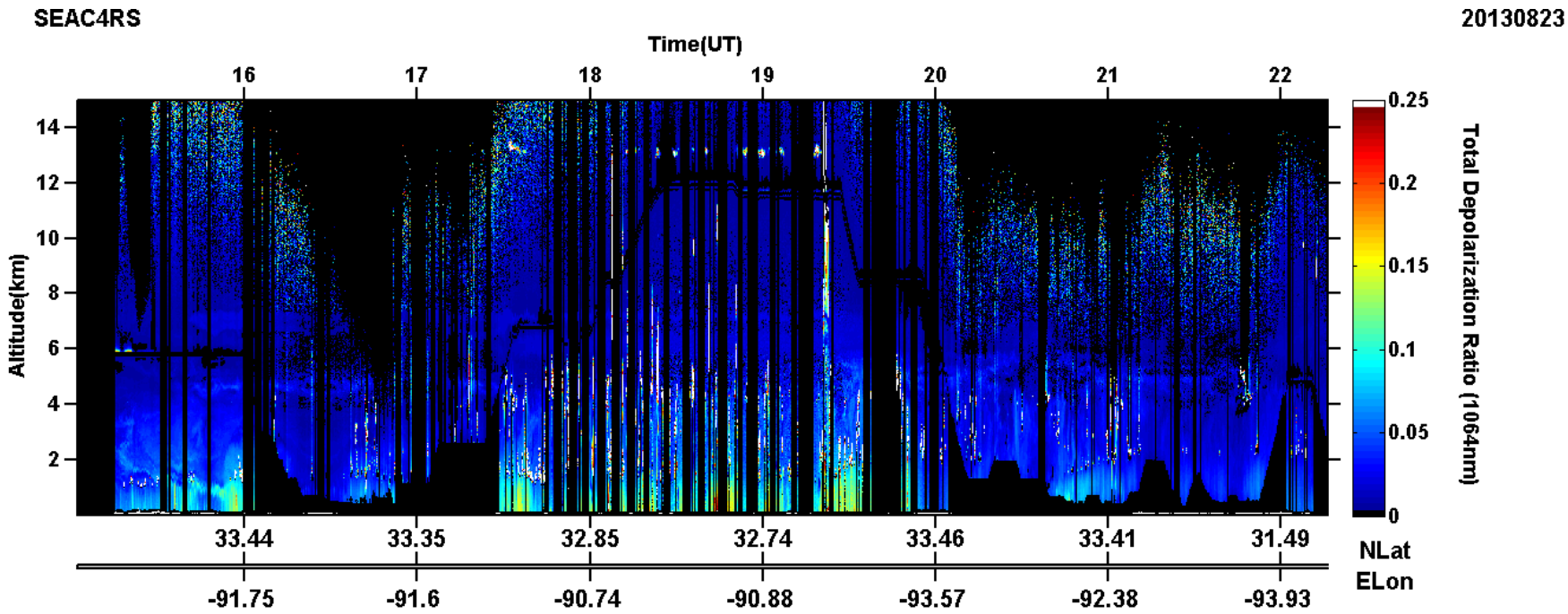

SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
NLat
ELon
5
1
0.1
0.01
Aerosol Backscatter (1064nm)
(Mm-1sr-1)

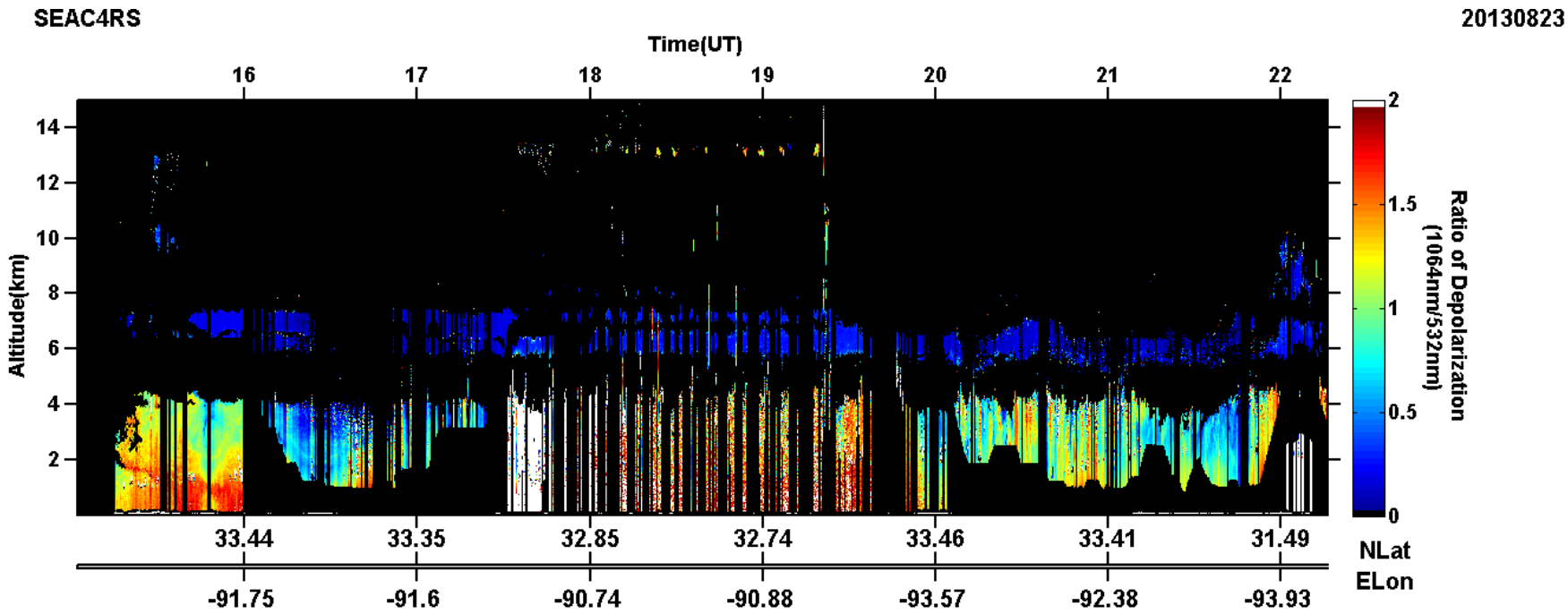

SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
NLat
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
ELon
10
1
0.1
0.01
Aerosol Scattering Ratio (532nm)

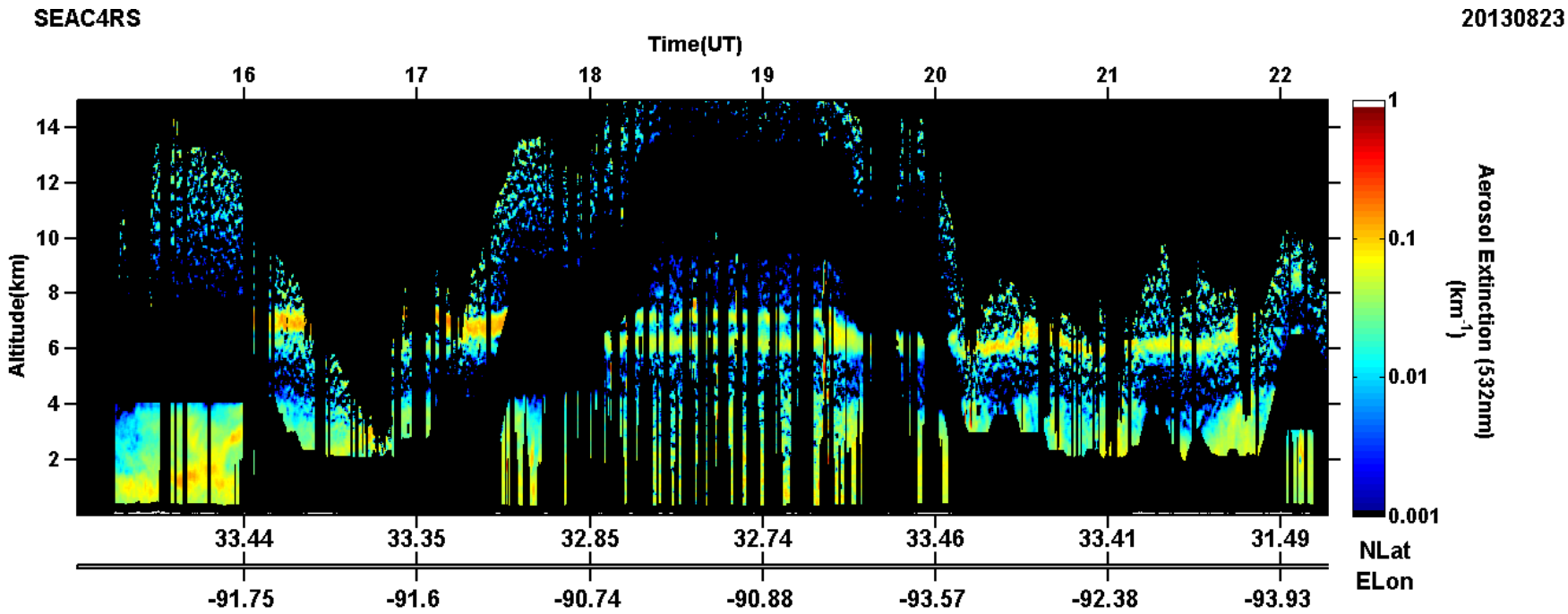

SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
NLat
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
ELon
50
10
1
0.1
0.01
Aerosol Scattering Ratio (1064nm)

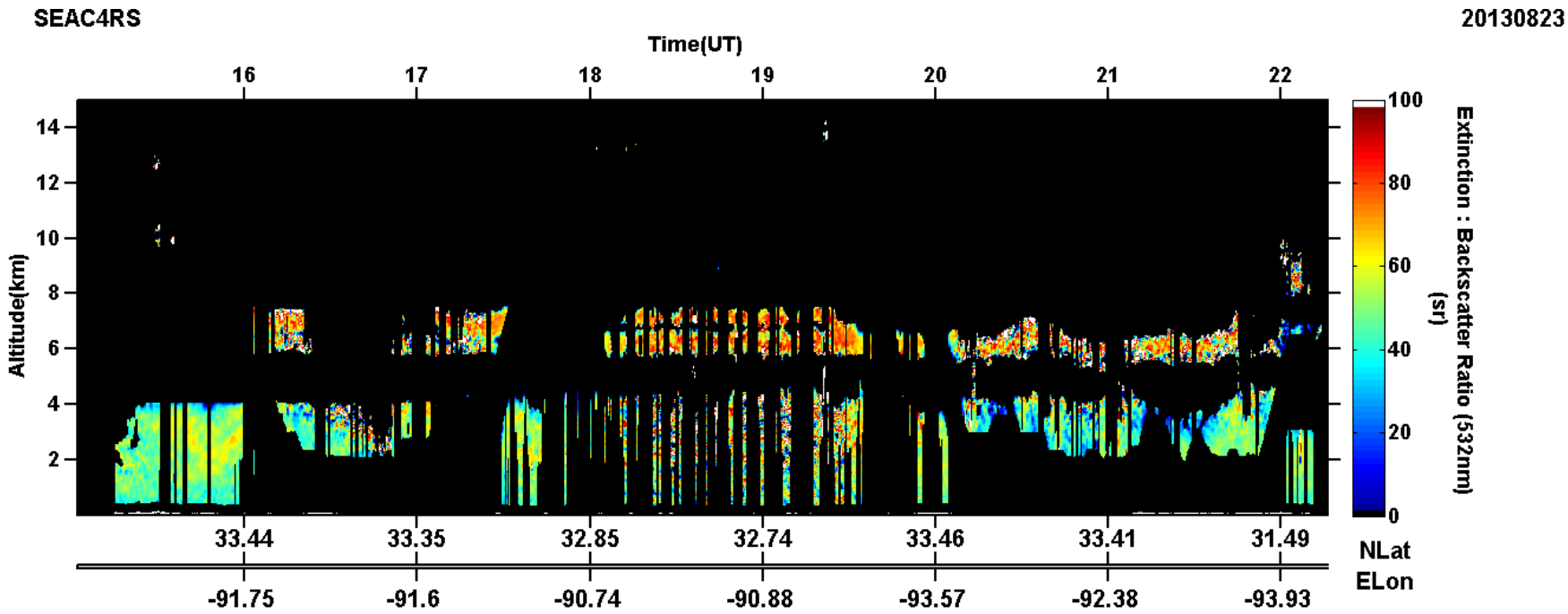

SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
NLat
ELon
Color Ratio
(1064nm/532nm)
1
0.8
0.6
0.4
0.2
0

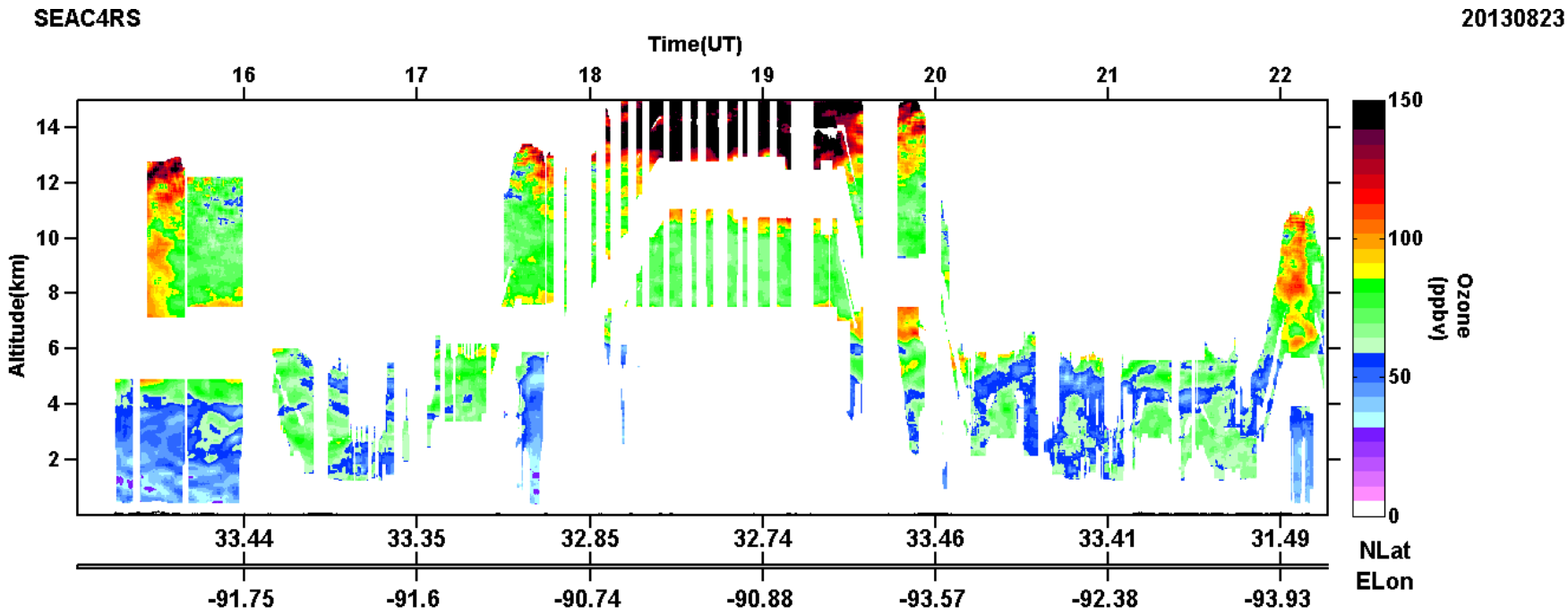

SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
NLat
ELon
0.1
0.08
0.06
0.04
0.02
0
Total Depolarization Ratio (532nm)

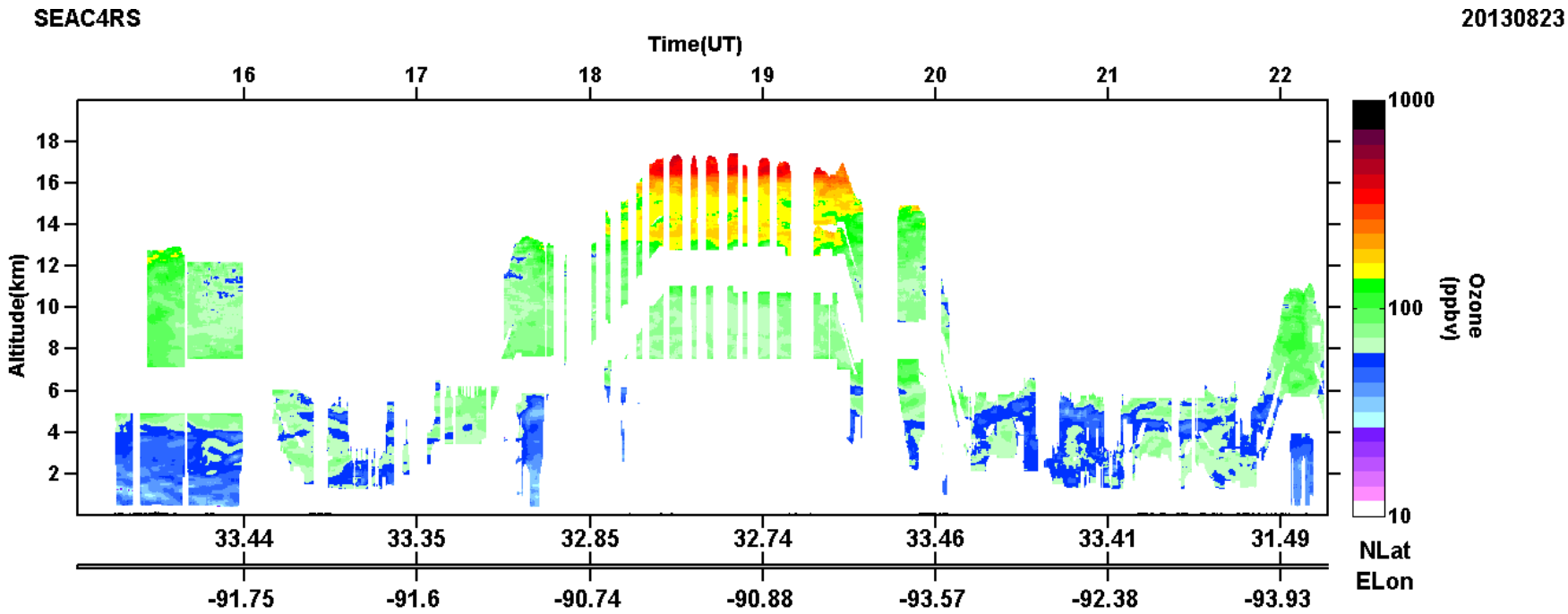

SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
NLat
ELon
0.25
0.2
0.15
0.1
0.05
0
Total Depolarization Ratio (1064nm)


SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
NLat
ELon
Ratio of Depolarization
(1064nm/532nm)
2
1.5
1
0.5
0


SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
NLat
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
ELon
1
0.1
0.01
0.001
Aerosol Extinction (532nm)
(km^{-1})


SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
NLat
ELon
100
80
60
40
20
0
Extinction : Backscatter Ratio (532nm)
(sr)


SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
NLat
ELon
Ozone (ppbv)
150
100
50
0


SEAC4RS
20130823
Time(UT)
16
17
18
19
20
21
22
Altitude(km)
18
16
14
12
10
8
6
4
2
33.44
33.35
32.85
32.74
33.46
33.41
31.49
NLat
-91.75
-91.6
-90.74
-90.88
-93.57
-92.38
-93.93
ELon
1000
100
10
Ozone
(ppbv)