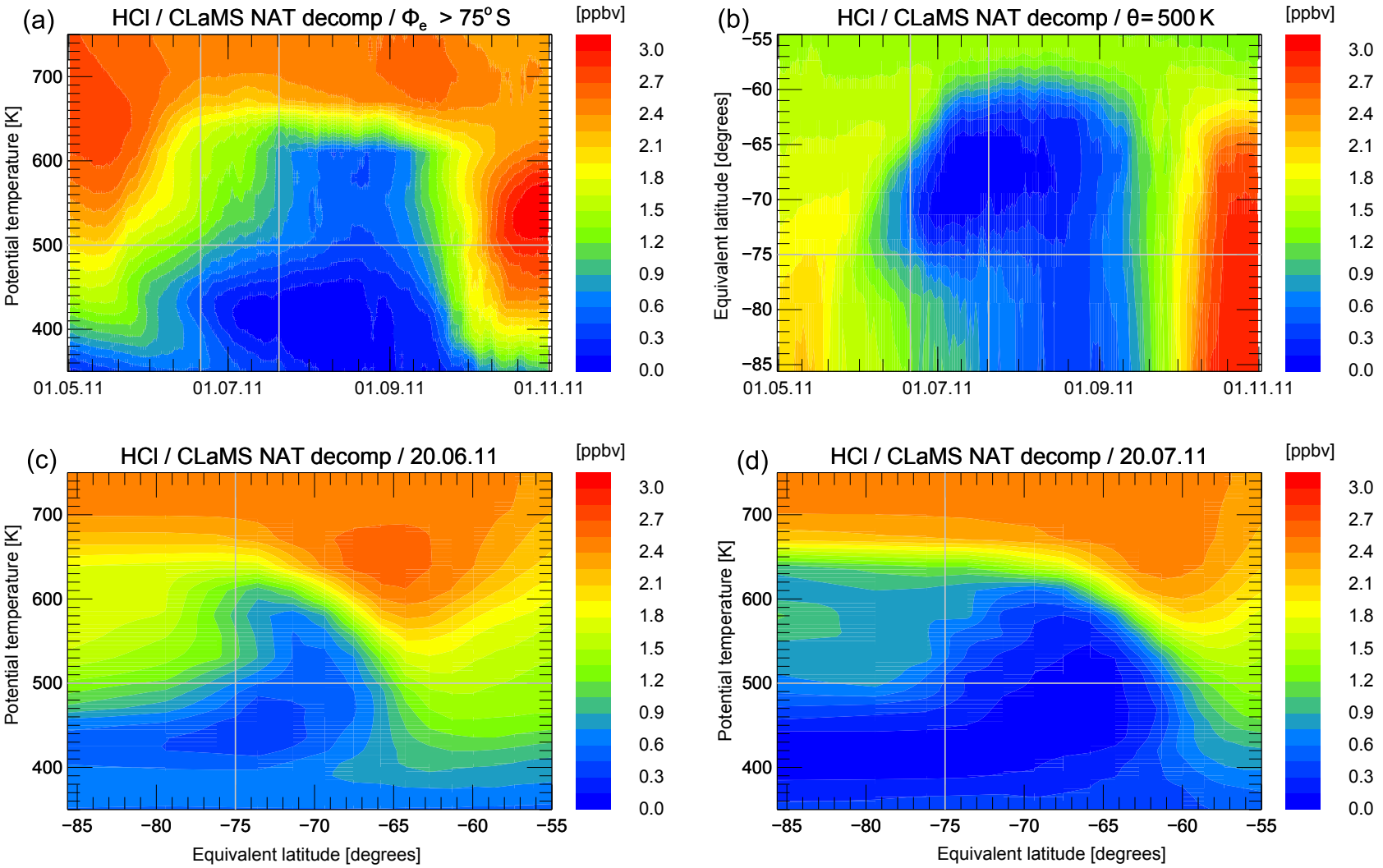
(a)
HCl / CLaMS NAT decomp / Φe > 75° S
[ppbv]
Potential temperature [K]
700
600
500
400
01.05.11
01.07.11
01.09.11
01.11.11
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
(b)
HCl / CLaMS NAT decomp / θ= 500 K
[ppbv]
Equivalent latitude [degrees]
−55
−60
−65
−70
−75
−80
−85
01.05.11
01.07.11
01.09.11
01.11.11
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
(c)
HCl / CLaMS NAT decomp / 20.06.11
[ppbv]
Potential temperature [K]
700
600
500
400
−85
−80
−75
−70
−65
−60
−55
Equivalent latitude [degrees]
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
(d)
HCl / CLaMS NAT decomp / 20.07.11
[ppbv]
Potential temperature [K]
700
600
500
400
−85
−80
−75
−70
−65
−60
−55
Equivalent latitude [degrees]
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0