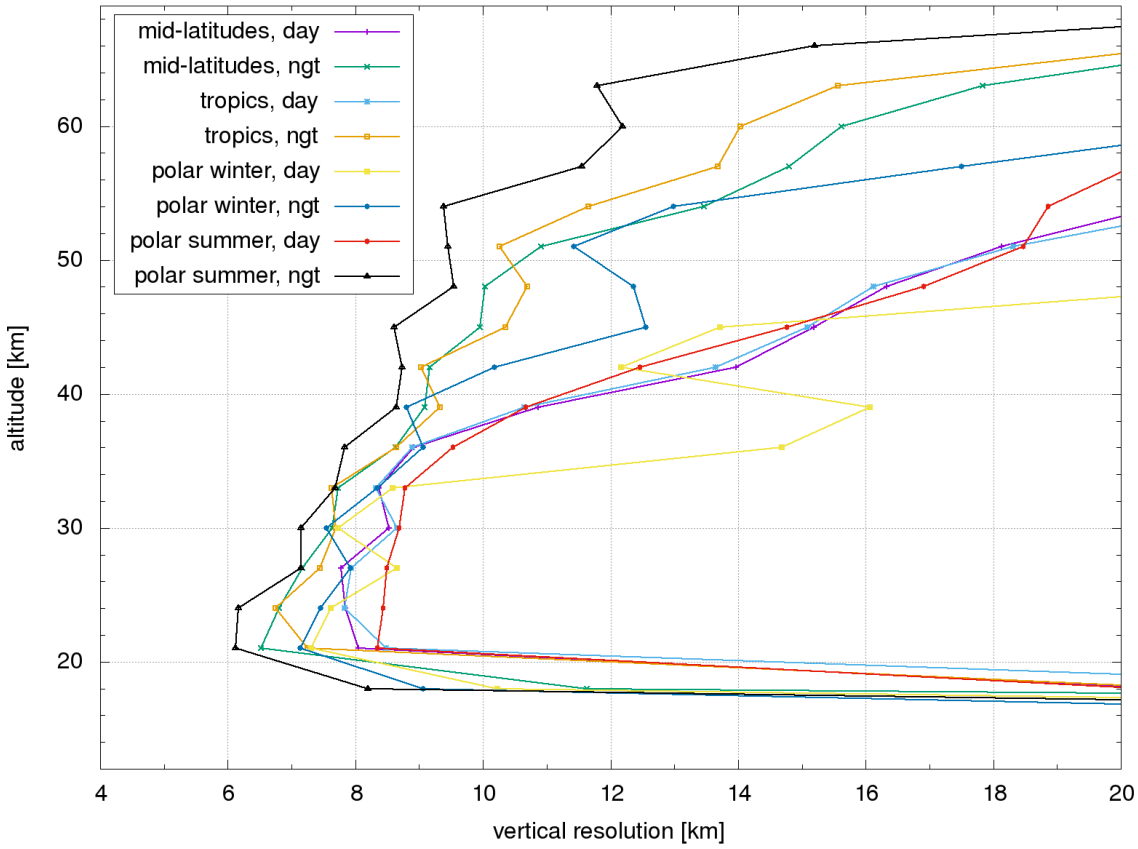
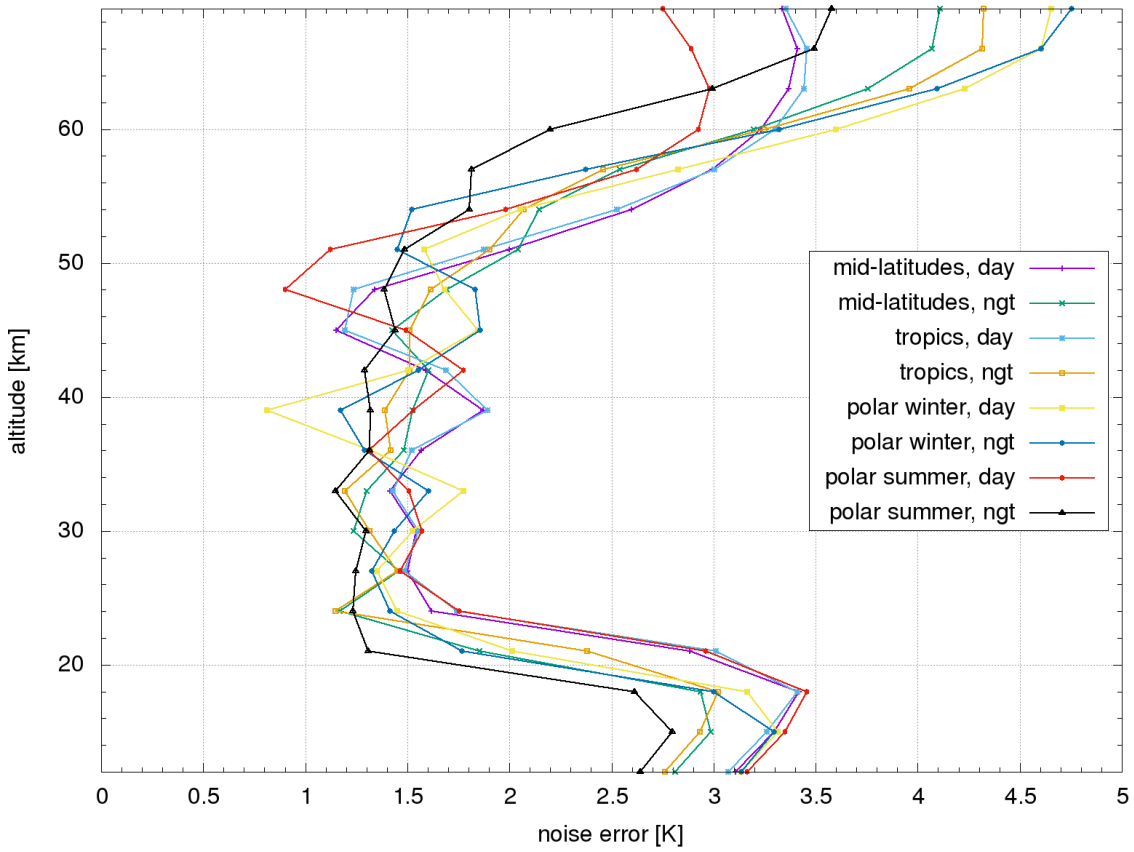
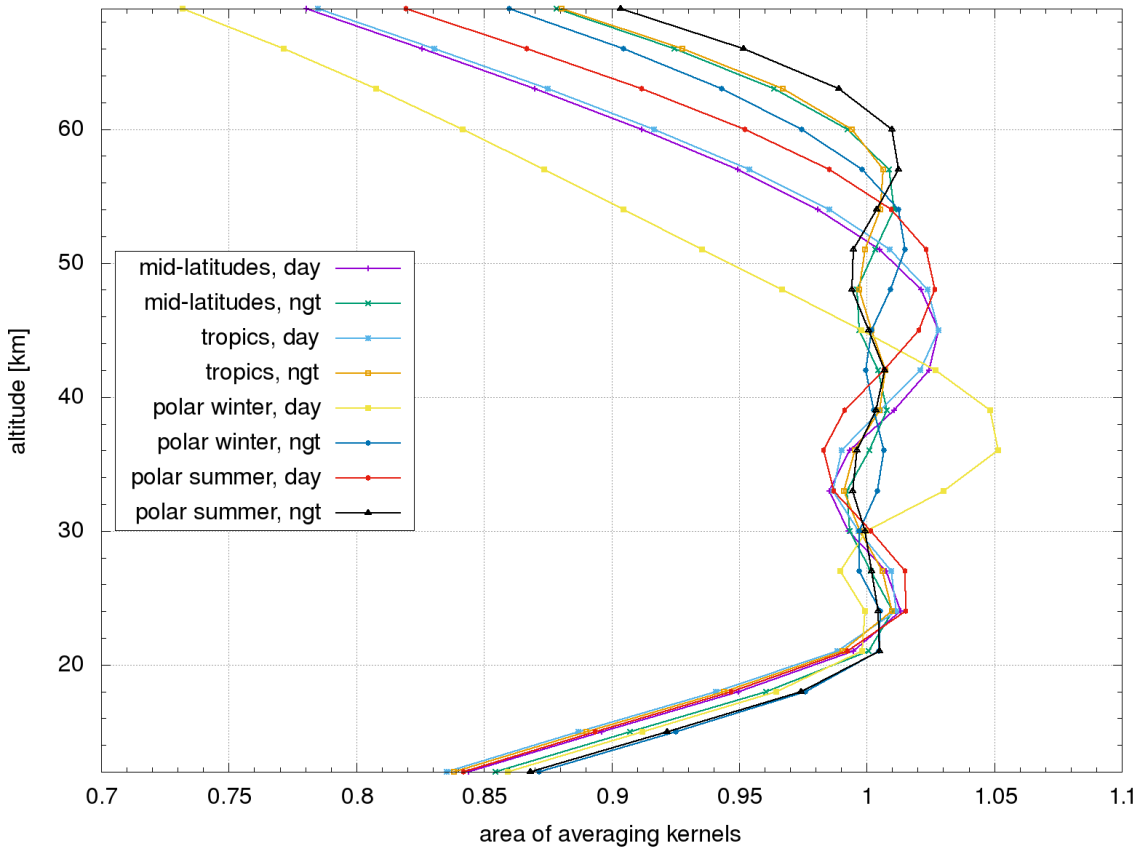
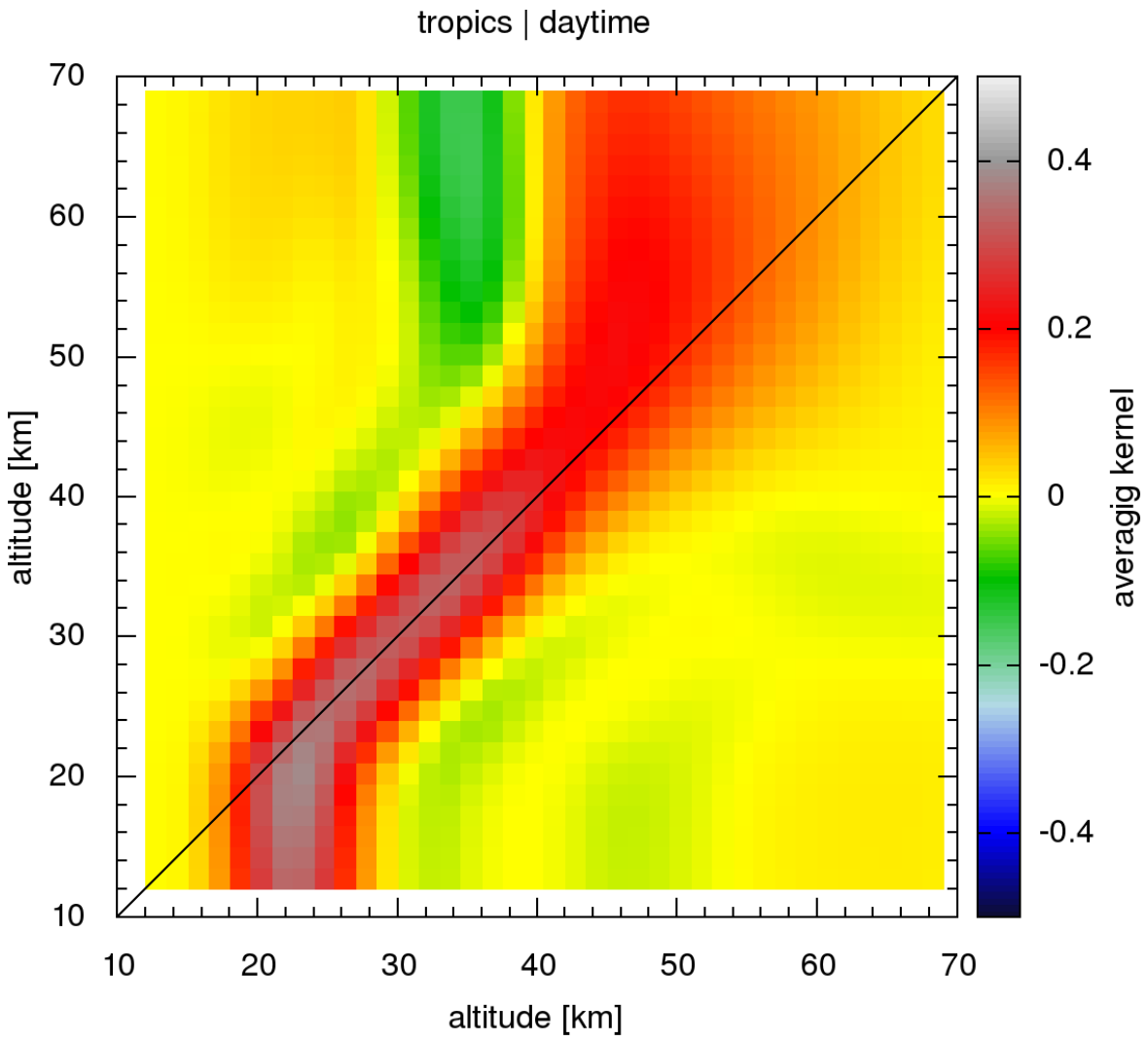
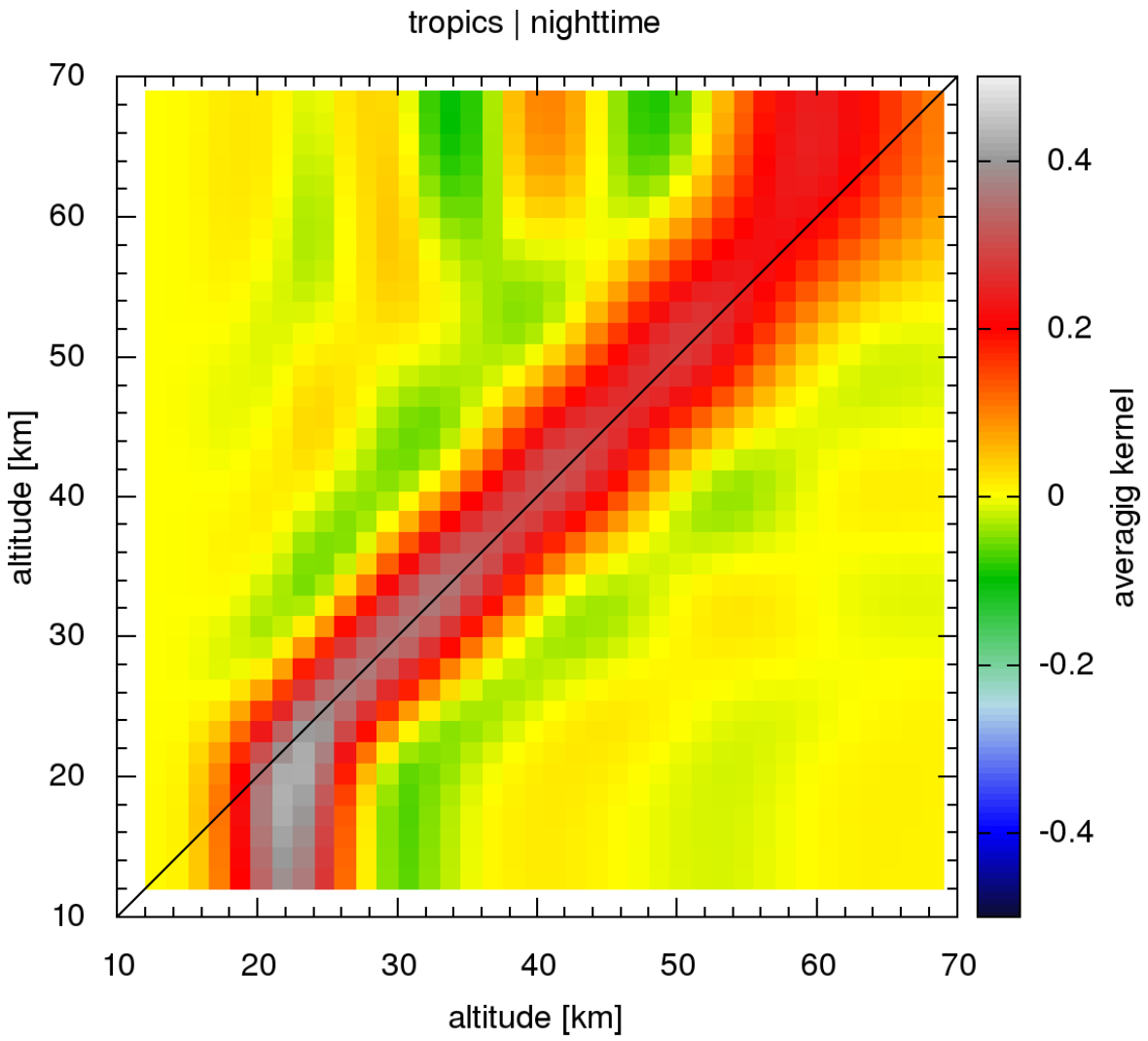

mid-latitudes, day
mid-latitudes, ngt
tropics, day
tropics, ngt
polar winter, day
polar winter, ngt
polar summer, day
polar summer, ngt
altitude [km]
20
30
40
50
60
4
6
8
10
12
14
16
18
20
vertical resolution [km]


altitude [km]
noise error [K]
mid-latitudes, day
mid-latitudes, ngt
tropics, day
tropics, ngt
polar winter, day
polar winter, ngt
polar summer, day
polar summer, ngt
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
20
30
40
50
60


mid-latitudes, day
mid-latitudes, ngt
tropics, day
tropics, ngt
polar winter, day
polar winter, ngt
polar summer, day
polar summer, ngt
altitude [km]
60
50
40
30
20
0.7
0.75
0.8
0.85
0.9
0.95
1
1.05
1.1
area of averaging kernels


tropics | daytime
altitude [km]
altitude [km]
averagig kernel
70
60
50
40
30
20
10
10
20
30
40
50
60
70
0.4
0.2
0
-0.2
-0.4


tropics | nighttime
altitude [km]
altitude [km]
averagig kernel
70
60
50
40
30
20
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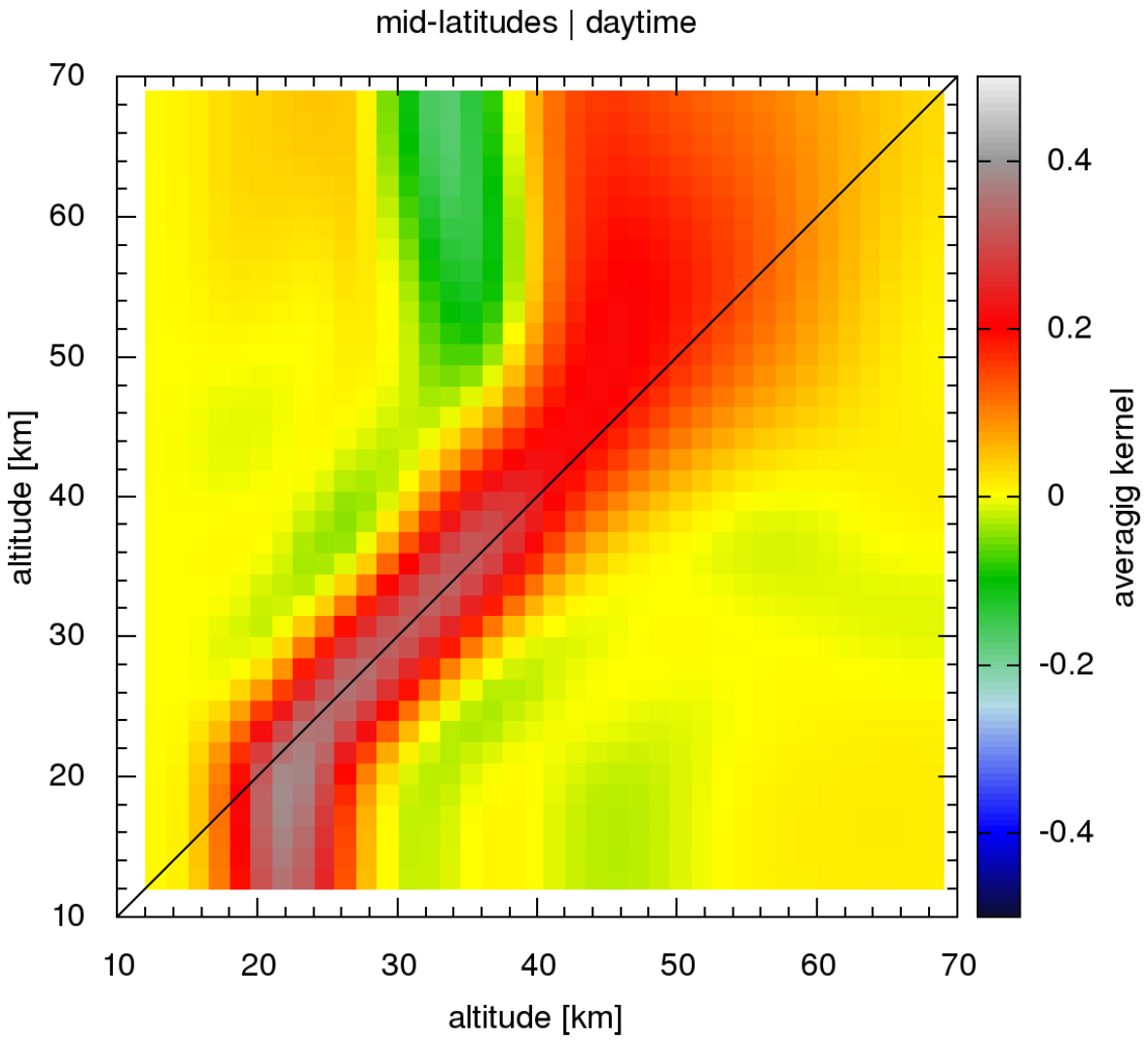
10
20
30
40
50
60
70
0.4
0.2
0
-0.2
-0.4


mid-latitudes | daytime
altitude [km]
altitude [km]
averagig kernel
70
60
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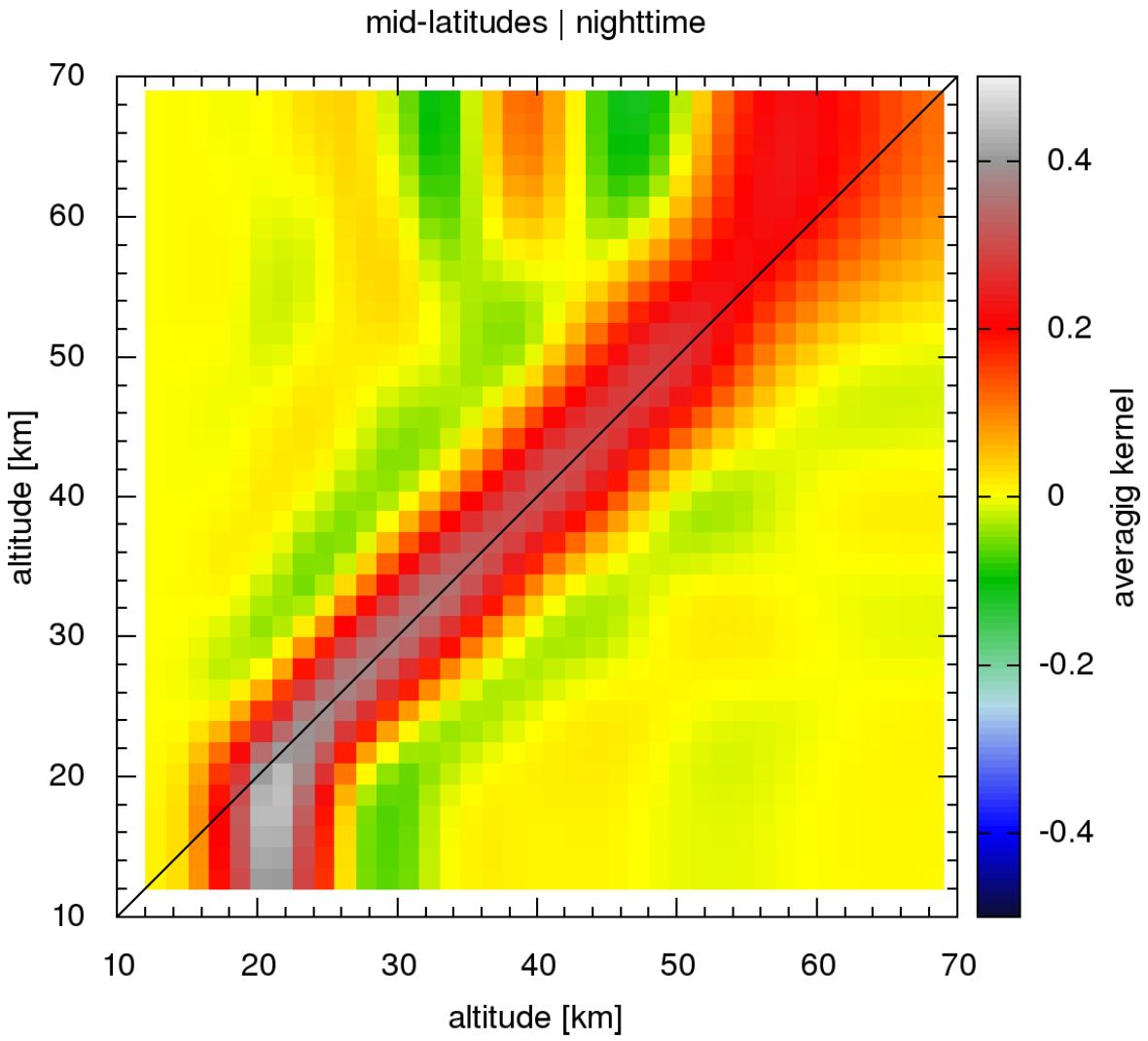
40
50
60
70
0.4
0.2
0
-0.2
-0.4


mid-latitudes | nighttime
altitude [km]
altitude [km]
averagig kernel
70
60
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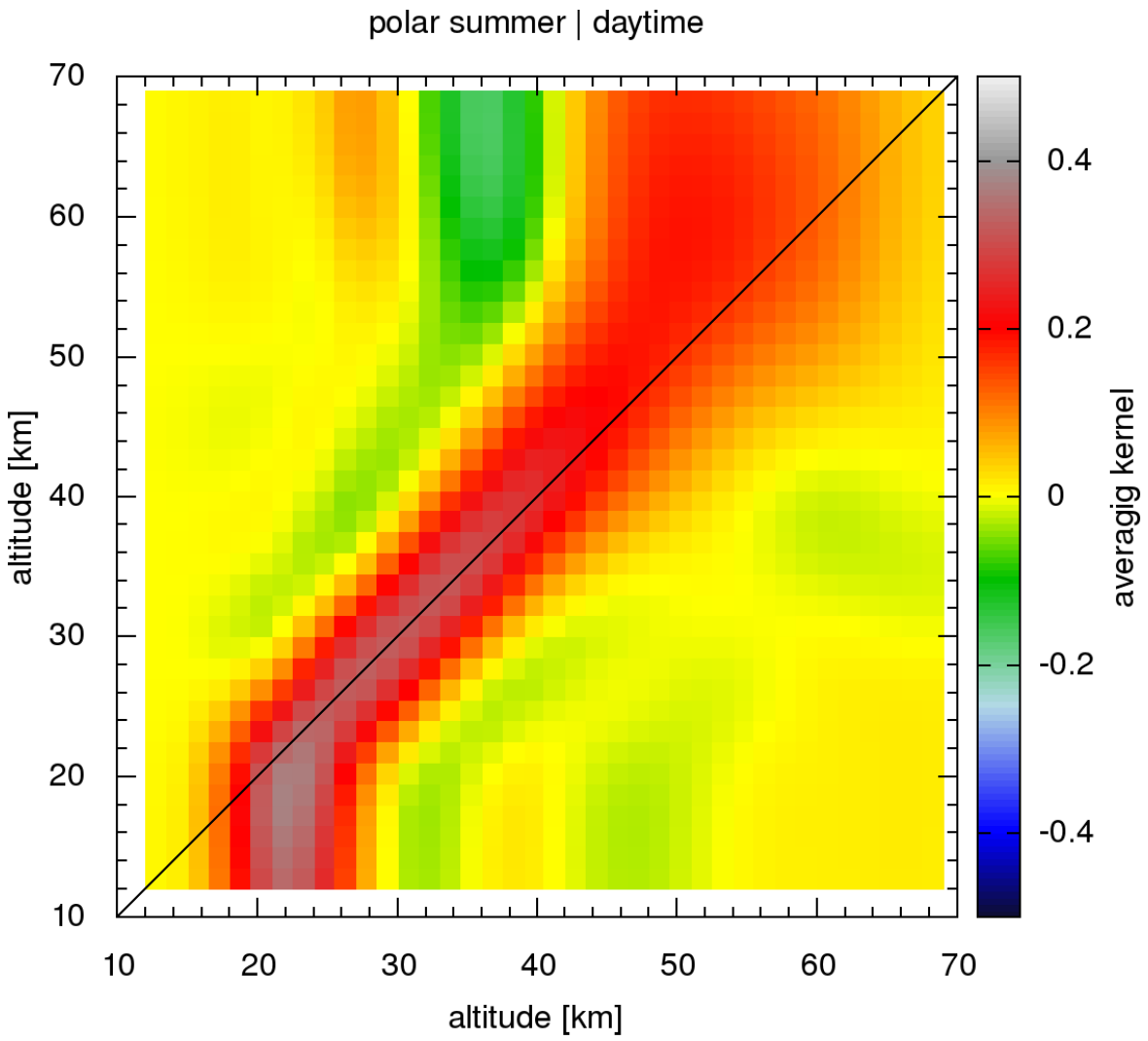
60
70
0.4
0.2
0
-0.2
-0.4


polar summer | daytime
altitude [km]
altitude [km]
averagig kernel
70
60
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20
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60
70
0.4
0.2
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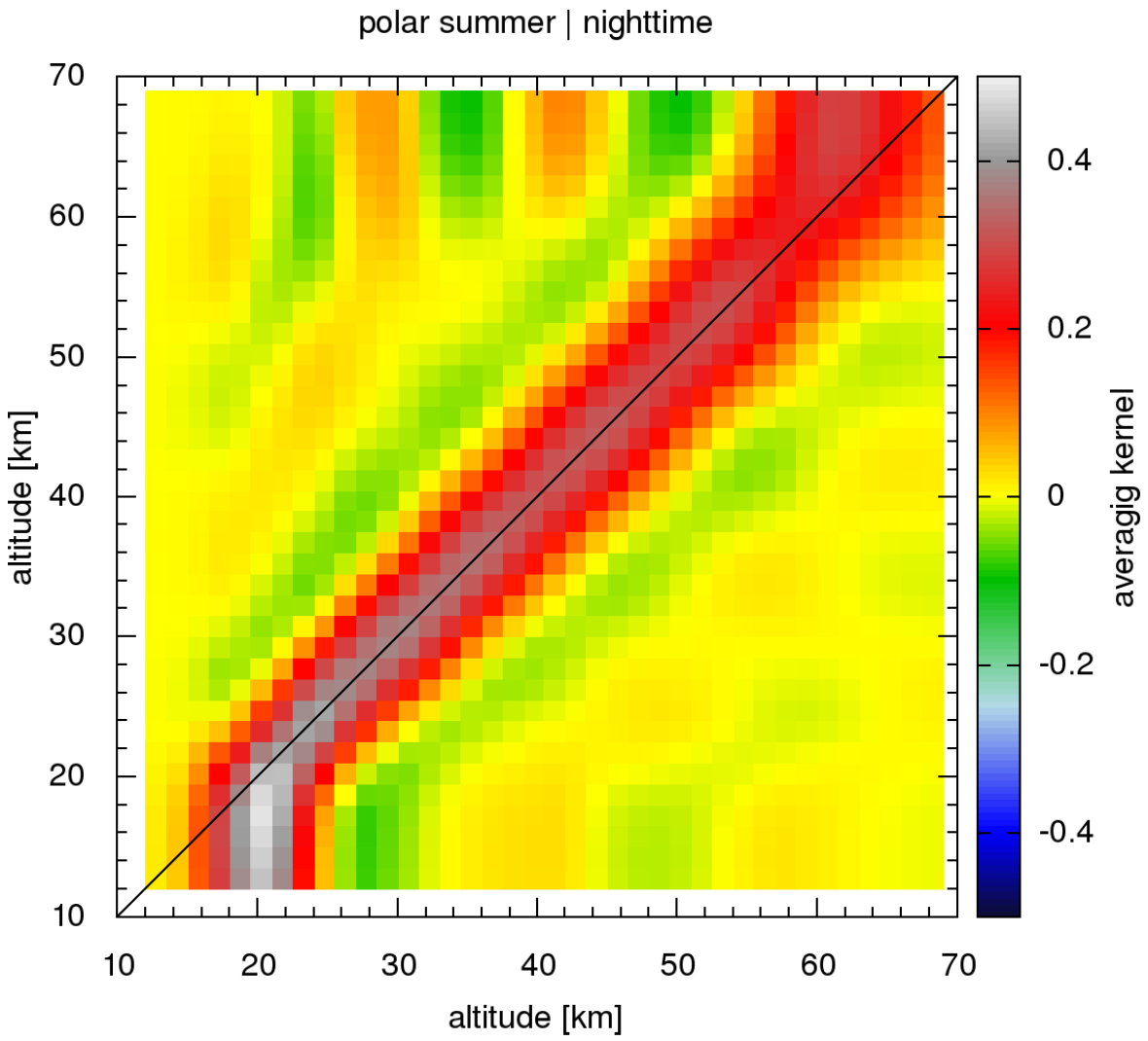
-0.2
-0.4


polar summer | nighttime
altitude [km]
altitude [km]
averagig kernel
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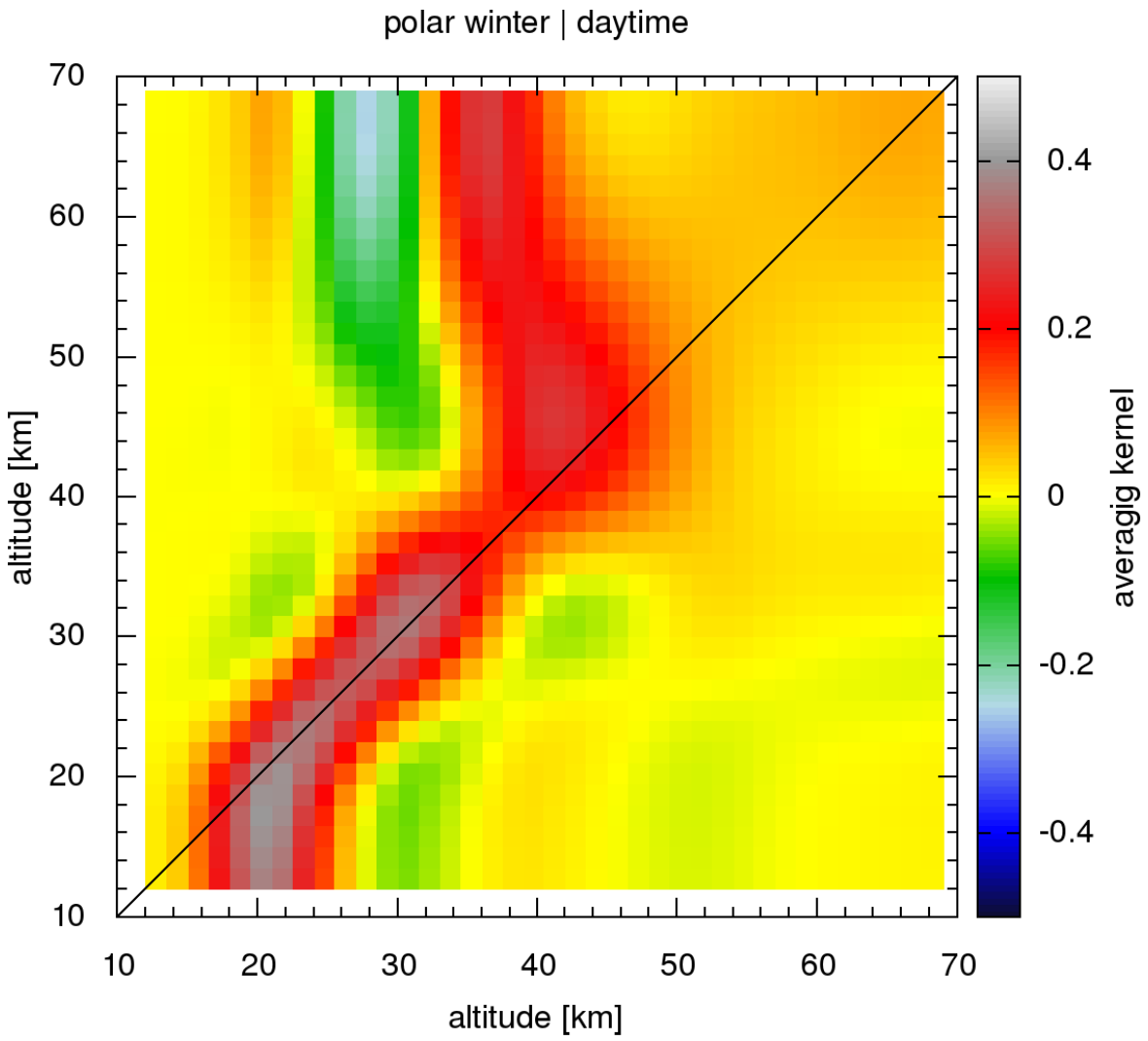
polar winter | daytime
altitude [km]
altitude [km]
averagig kernel
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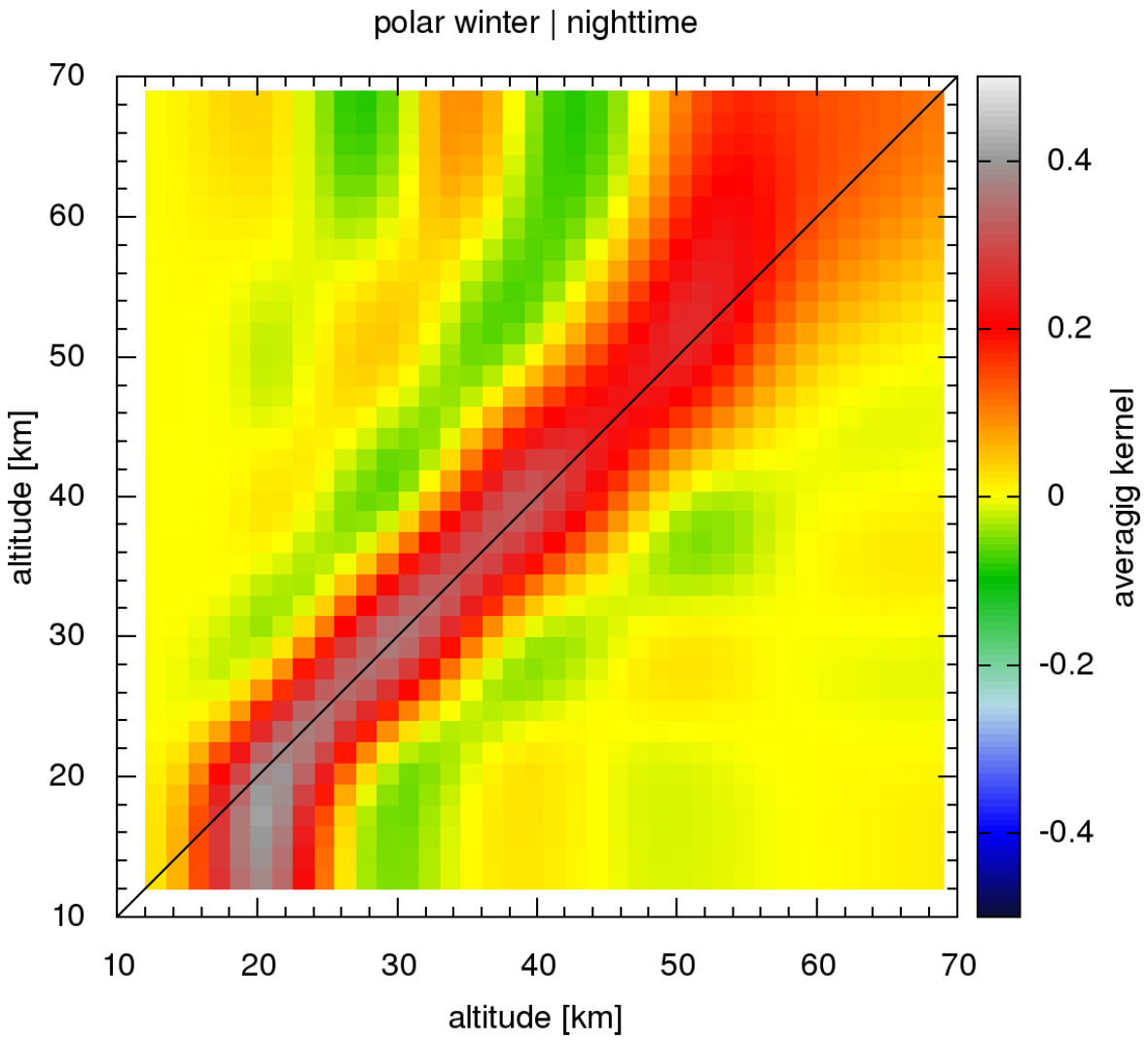
polar winter | nighttime
altitude [km]
altitude [km]
averagig kernel
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-0.2
-0.4