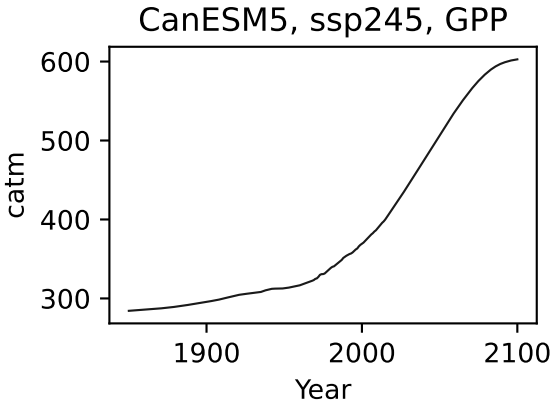
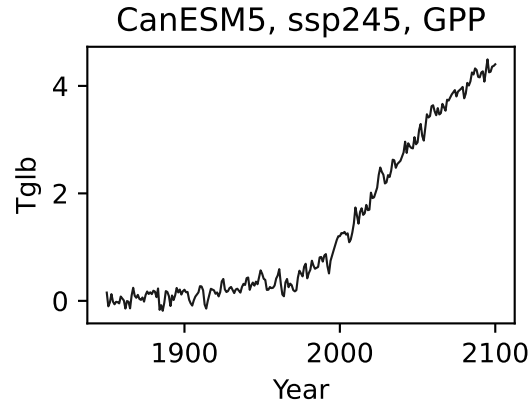
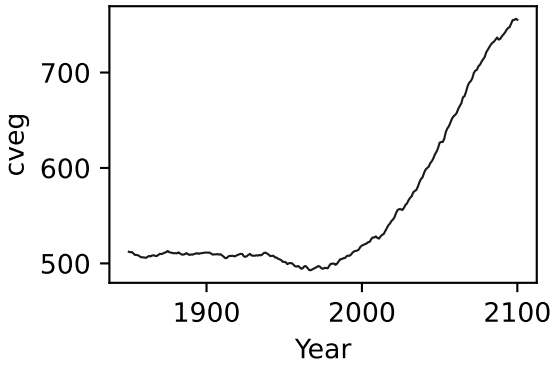
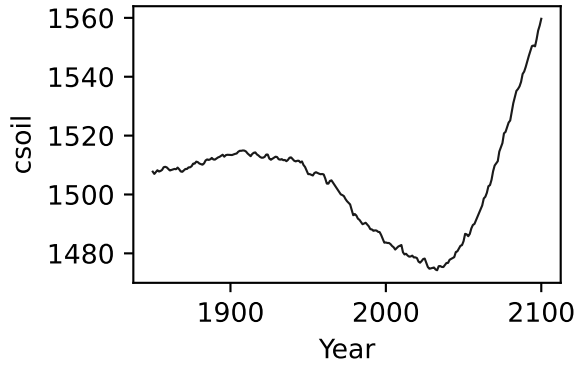
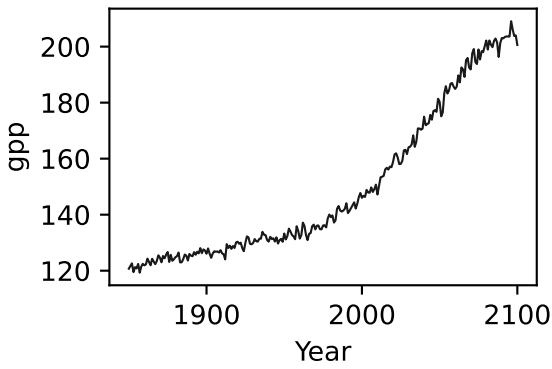
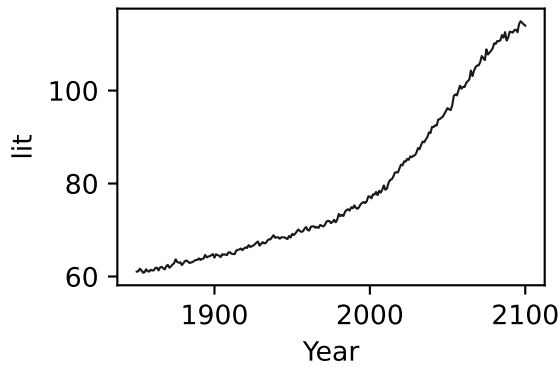

CanESM5, ssp245, GPP
catm
600
500
400
300
1900
2000
2100
Year

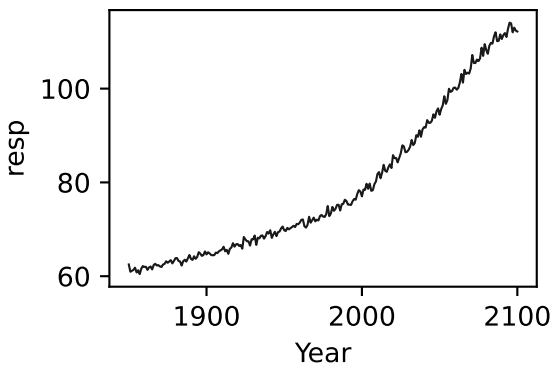

CanESM5, ssp245, GPP
Tglb
4
2
0
1900
2000
2100
Year

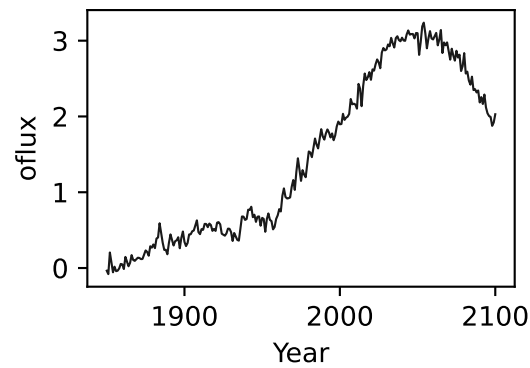

cveg
700
600
500
1900
2000
2100
Year

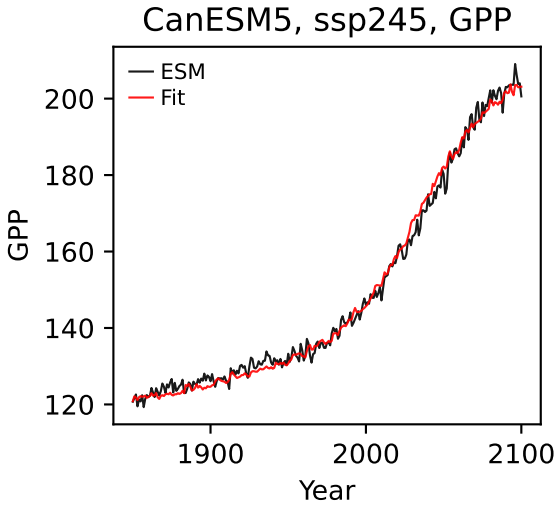

csoil
1560
1540
1520
1500
1480
1900
2000
2100
Year

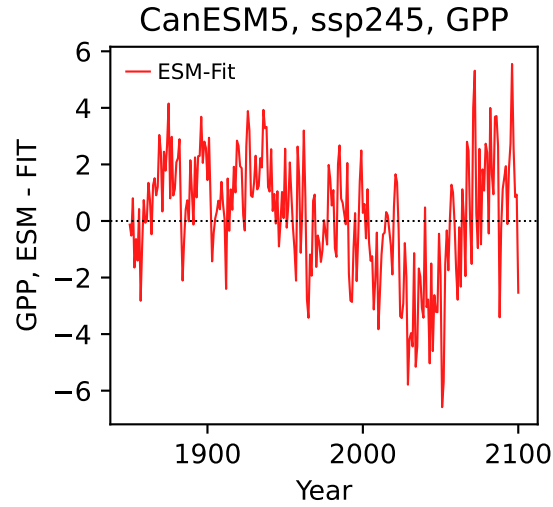

gpp
200
180
160
140
120
1900
2000
2100
Year

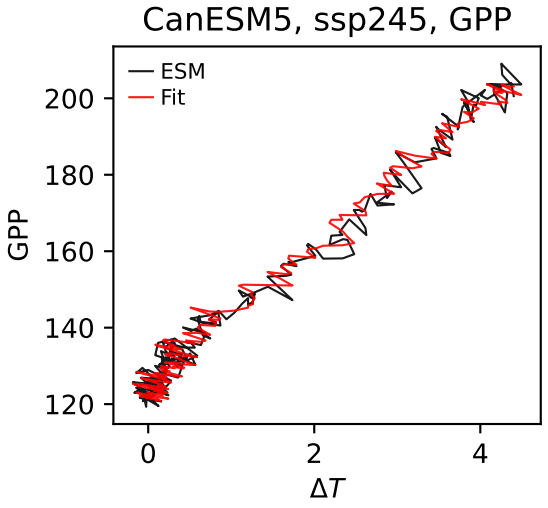

lit
100
80
60
1900
2000
2100
Year

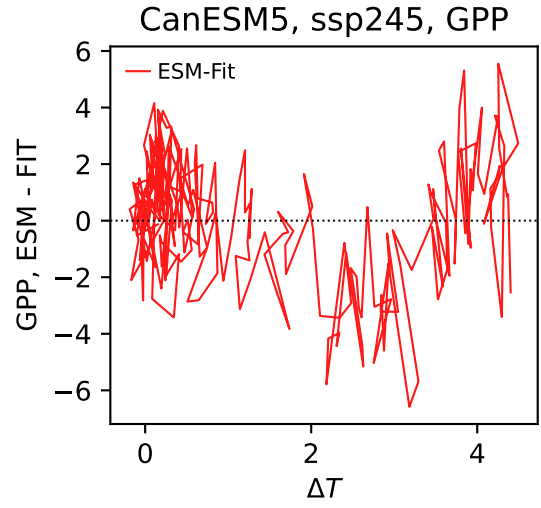

resp
100
80
60
1900
2000
2100
Year

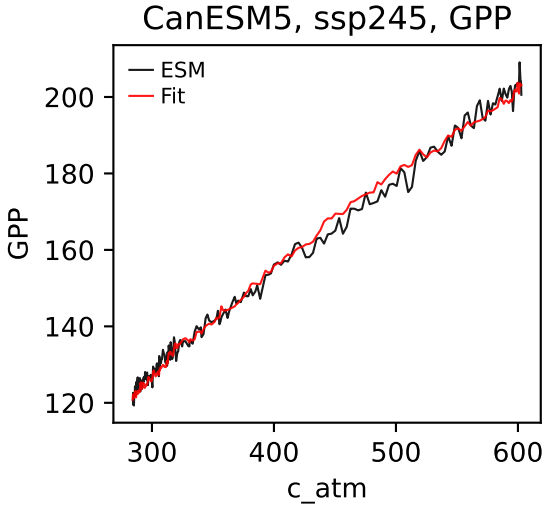

oflux
3
2
1
0
1900
2000
2100
Year

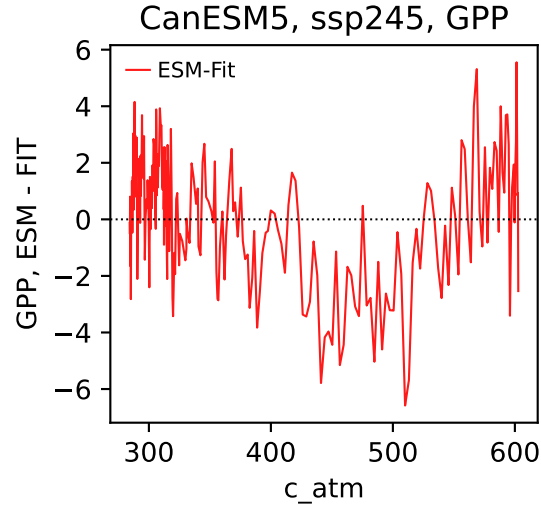

CanESM5, ssp245, GPP
ESM
Fit
GPP
Year

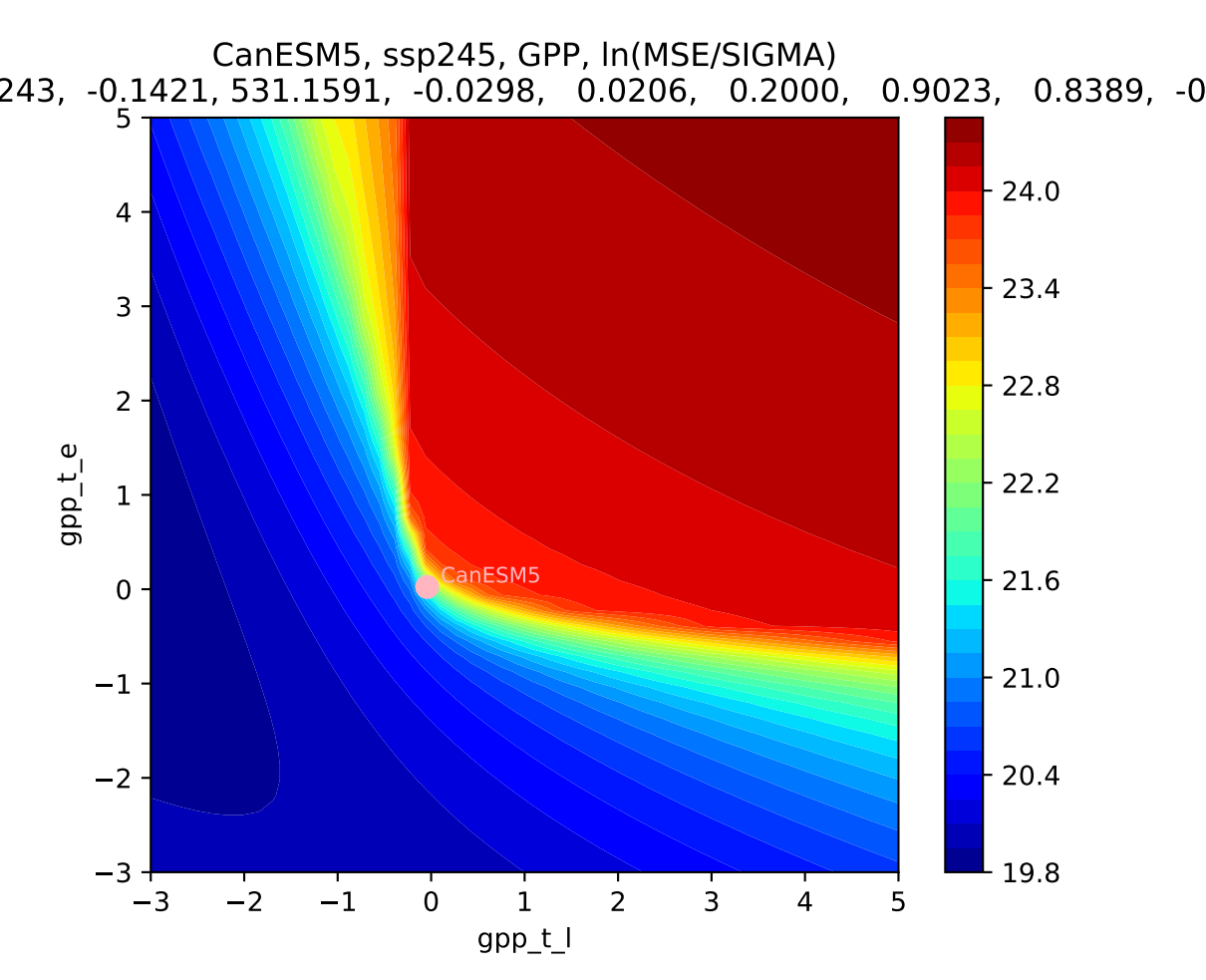

CanESM5, ssp245, GPP
ESM-Fit
GPP, ESM - FIT
Year

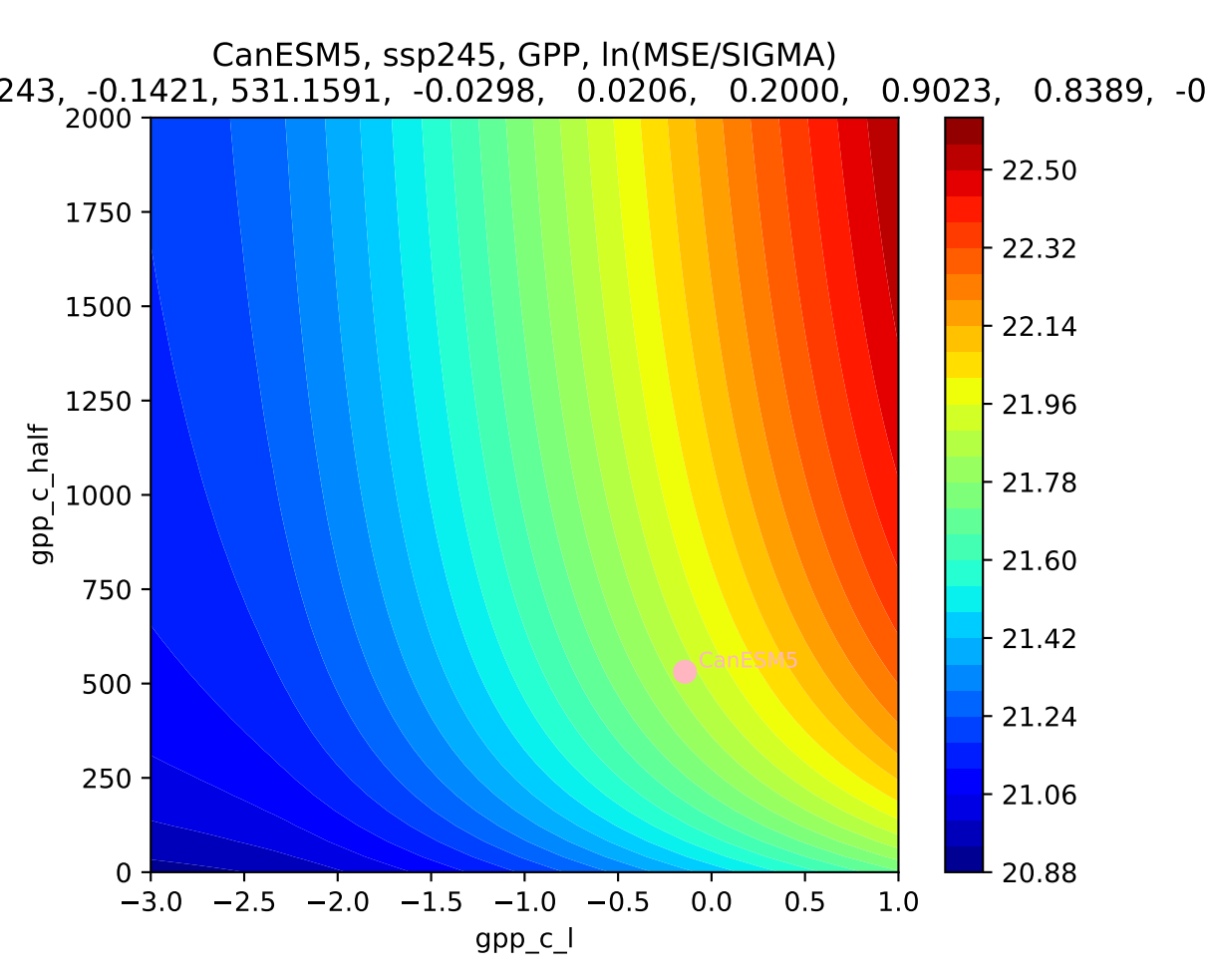

CanESM5, ssp245, GPP
ESM
Fit
GPP
ΔT

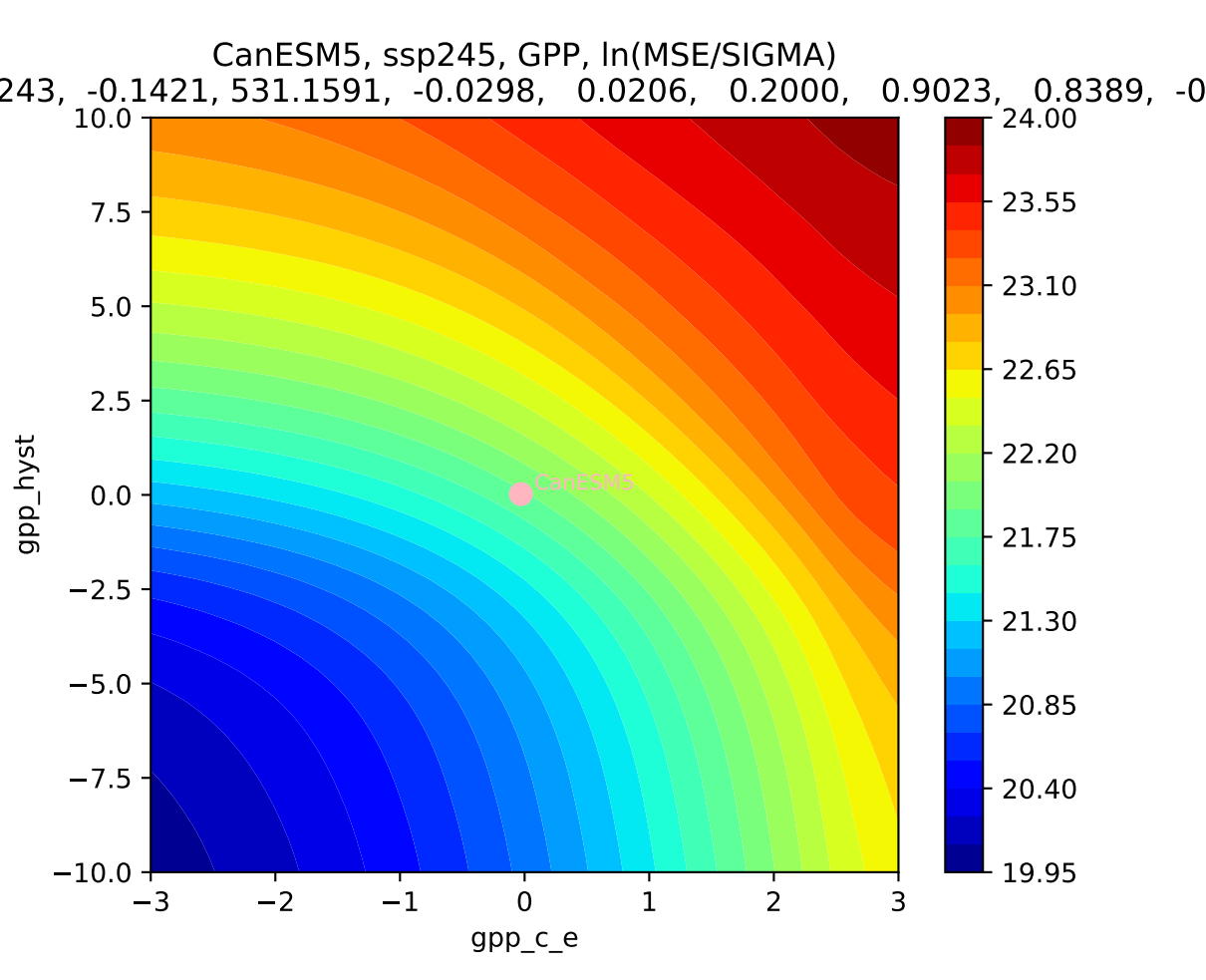

CanESM5, ssp245, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

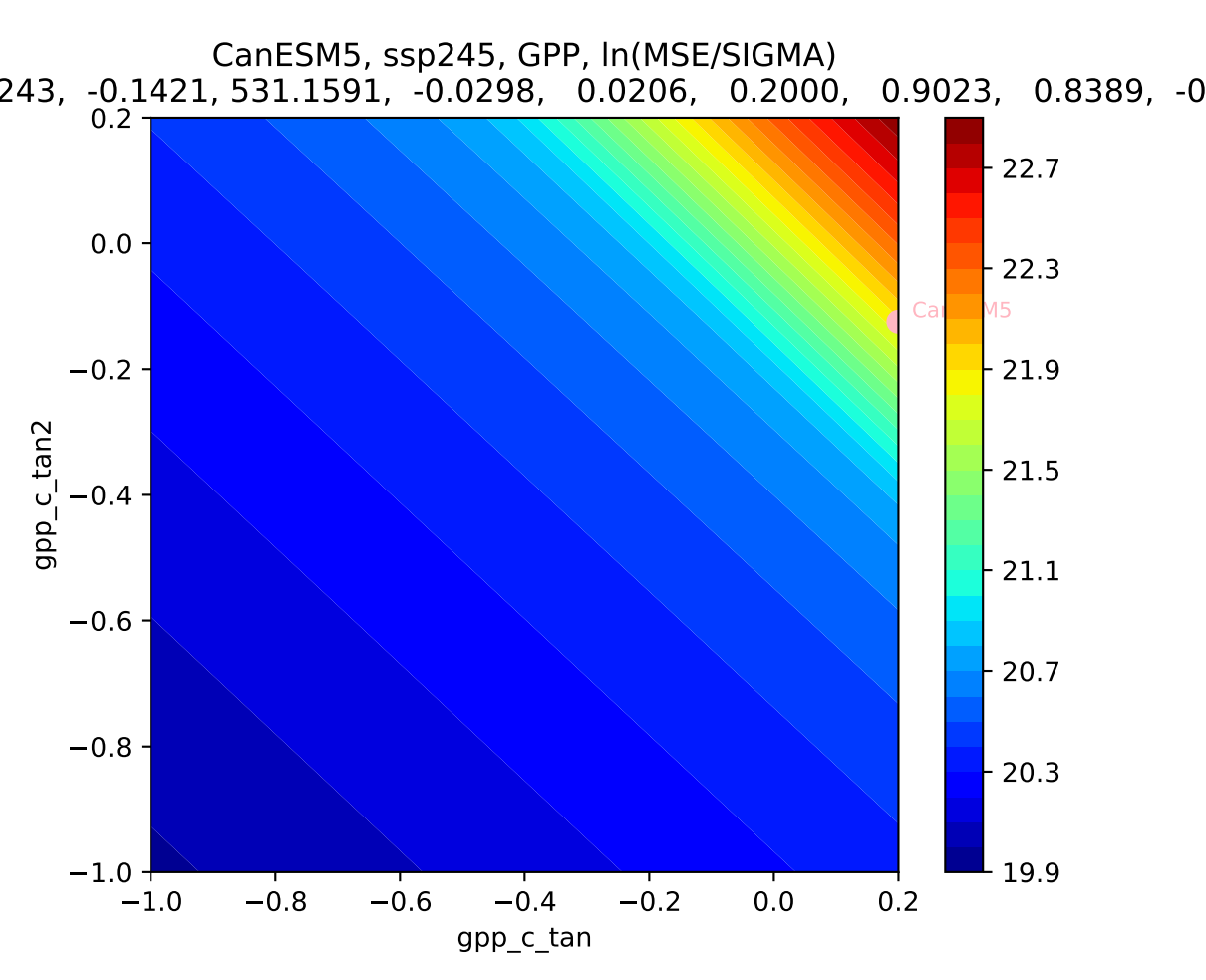

CanESM5, ssp245, GPP
ESM
Fit
GPP
c_atm

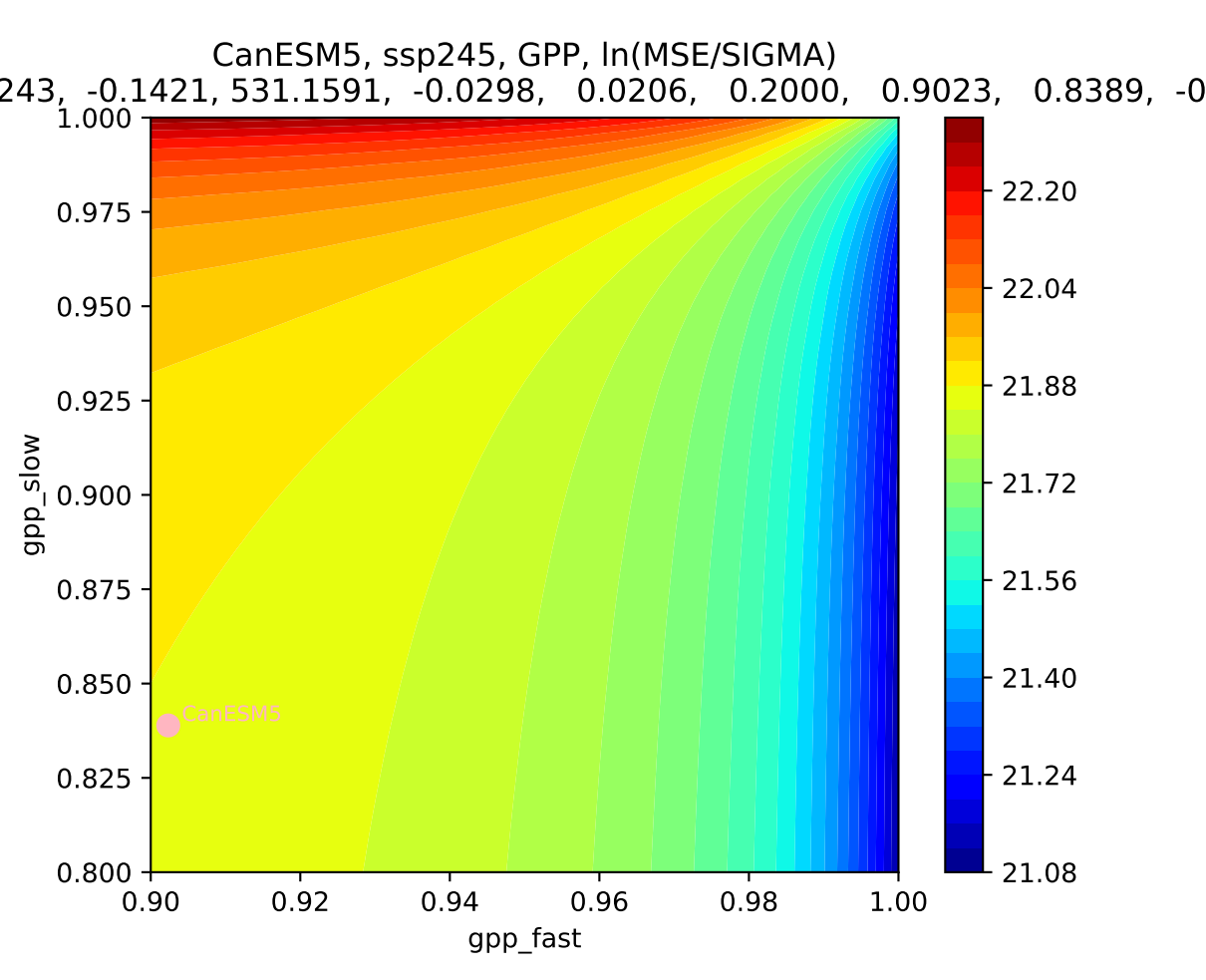

CanESM5, ssp245, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

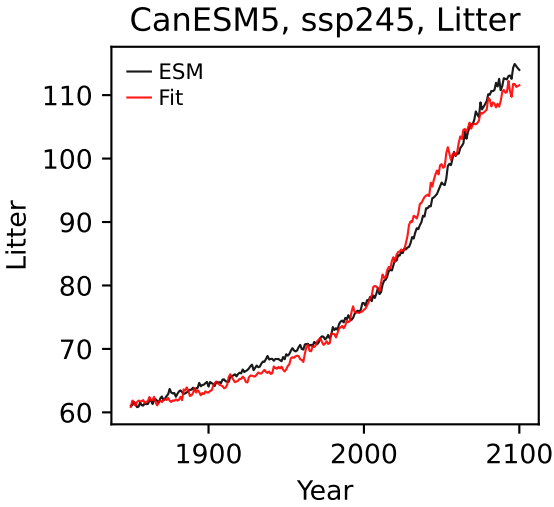

CanESM5, ssp245, GPP, ln(MSE/SIGMA)
243, -0.1421, 531.1591, -0.0298, 0.0206, 0.2000, 0.9023, 0.8389, -0
CanESM5
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
24.0
23.4
22.8
22.2
21.6
21.0
20.4
19.8

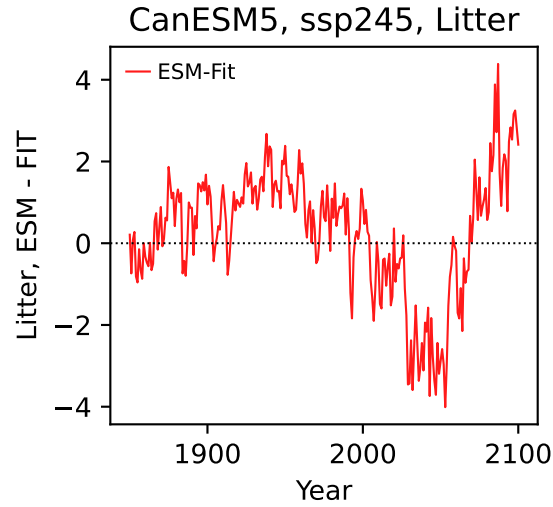

CanESM5, ssp245, GPP, ln(MSE/SIGMA)
243, -0.1421, 531.1591, -0.0298, 0.0206, 0.2000, 0.9023, 0.8389, -0
gpp_c_half
gpp_c_l
CanESM5
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.50
22.32
22.14
21.96
21.78
21.60
21.42
21.24
21.06
20.88

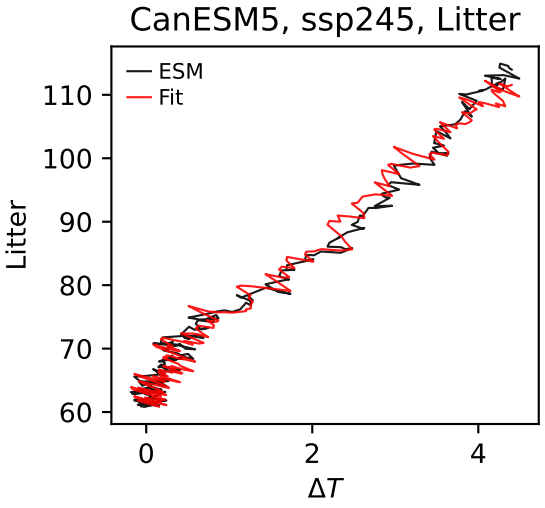

CanESM5, ssp245, GPP, ln(MSE/SIGMA)
243, -0.1421, 531.1591, -0.0298, 0.0206, 0.2000, 0.9023, 0.8389, -0
CanESM5
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
24.00
23.55
23.10
22.65
22.20
21.75
21.30
20.85
20.40
19.95

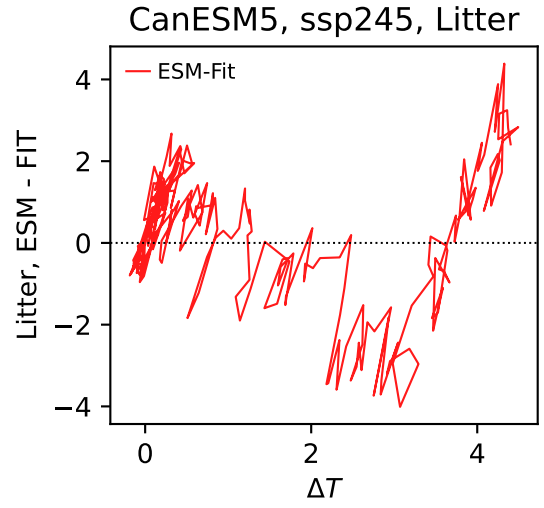

CanESM5, ssp245, GPP, ln(MSE/SIGMA)
243, -0.1421, 531.1591, -0.0298, 0.0206, 0.2000, 0.9023, 0.8389, -0
gpp_c_tan2
gpp_c_tan
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
22.7
22.3
21.9
21.5
21.1
20.7
20.3
19.9

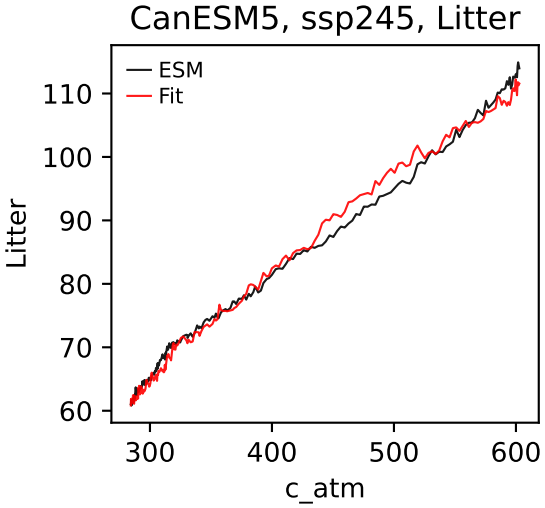

CanESM5, ssp245, GPP, ln(MSE/SIGMA)
243, -0.1421, 531.1591, -0.0298, 0.0206, 0.2000, 0.9023, 0.8389, -0
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
gpp_slow
CanESM5
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast
22.20
22.04
21.88
21.72
21.56
21.40
21.24
21.08

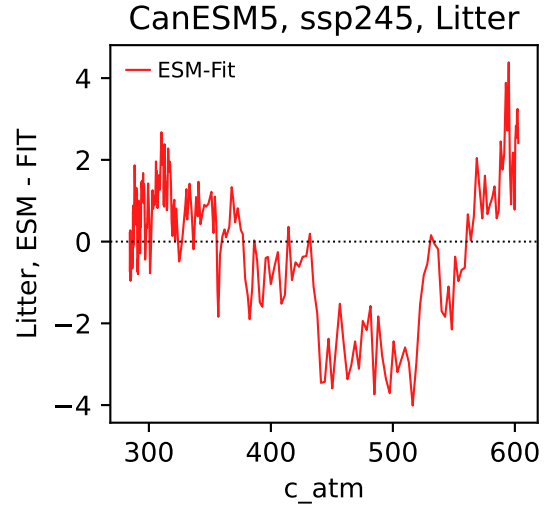

CanESM5, ssp245, Litter
ESM
Fit
Litter
Year

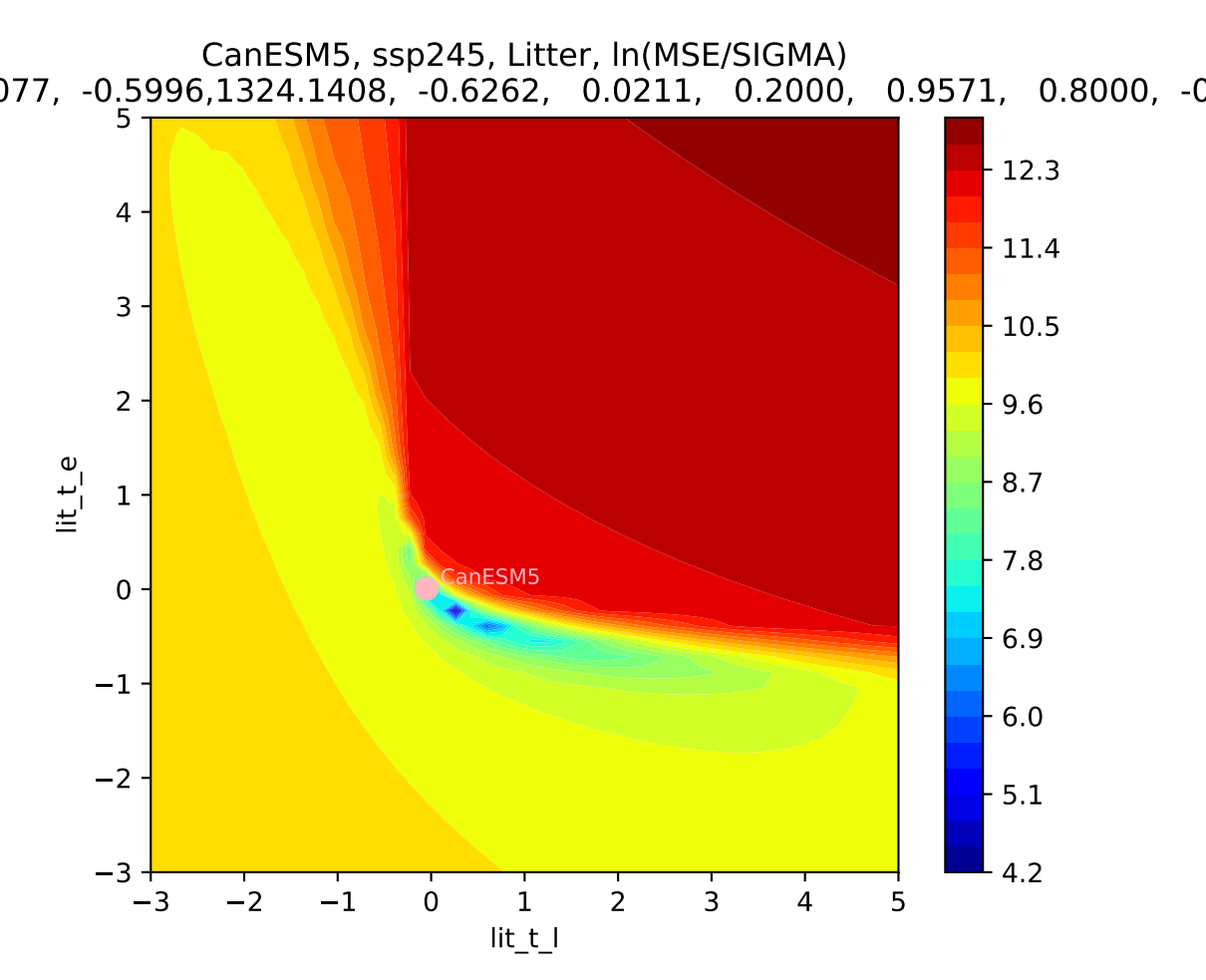

CanESM5, ssp245, Litter
ESM-Fit
Litter, ESM - FIT
Year

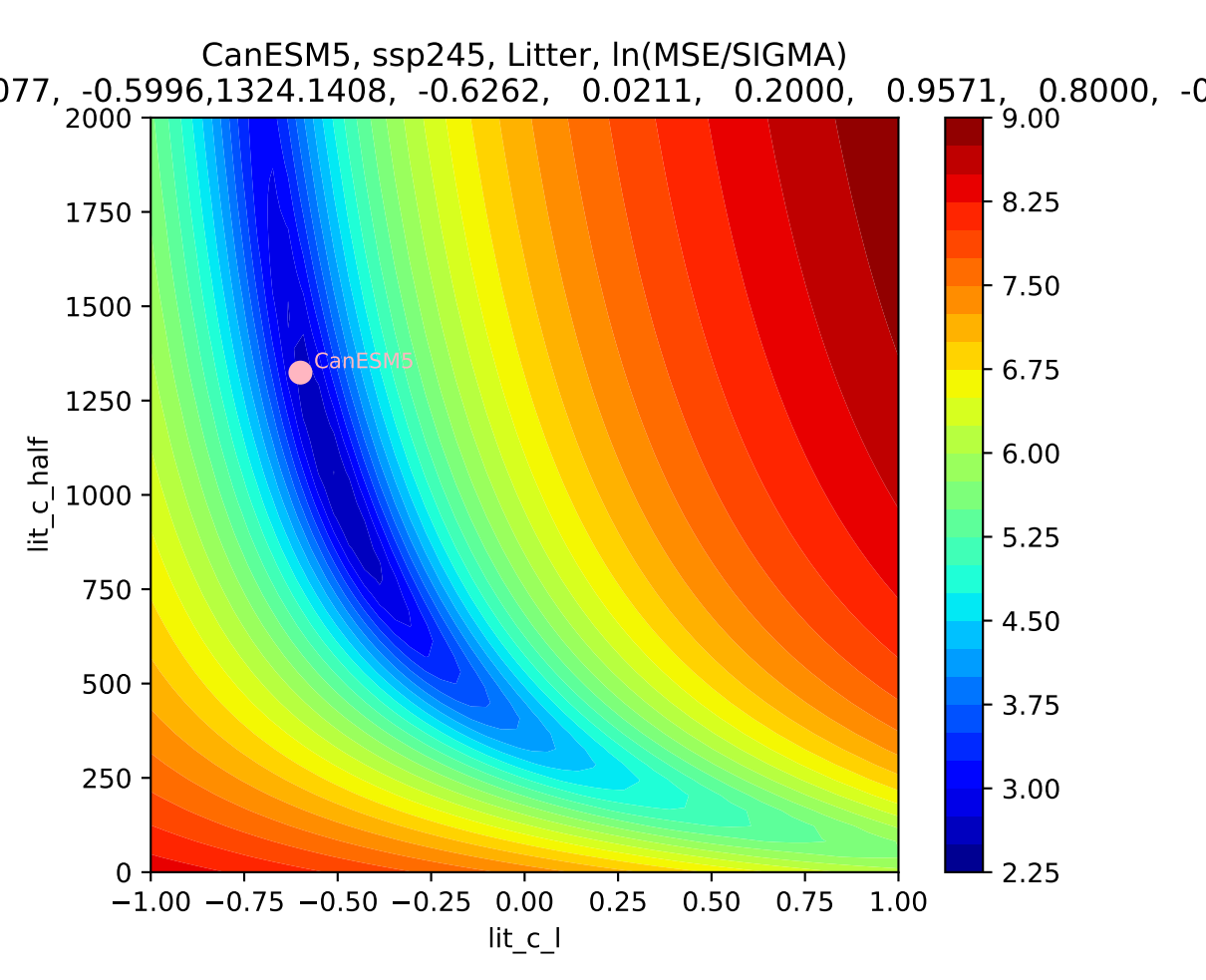

CanESM5, ssp245, Litter
ESM
Fit
Litter
ΔT

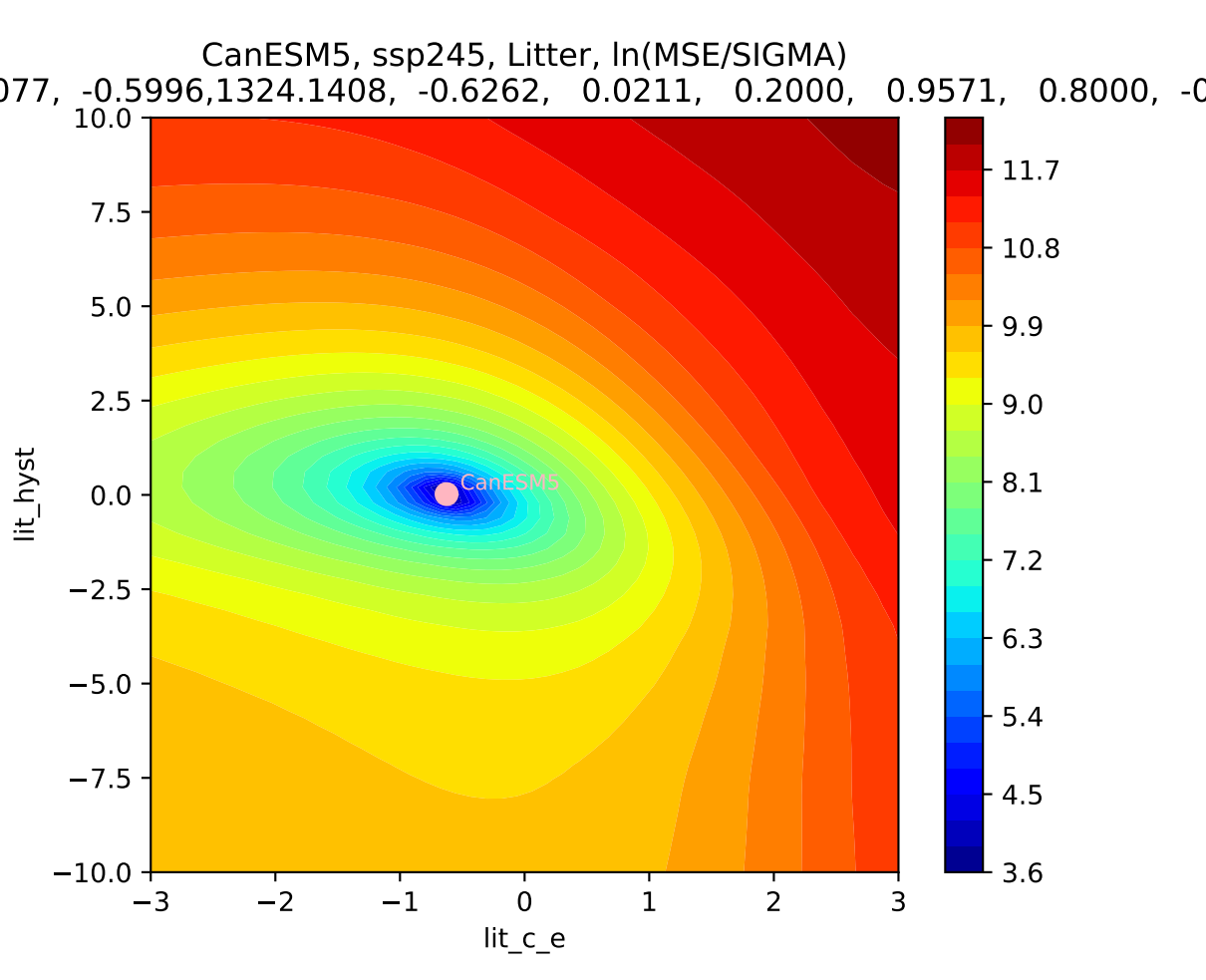

CanESM5, ssp245, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

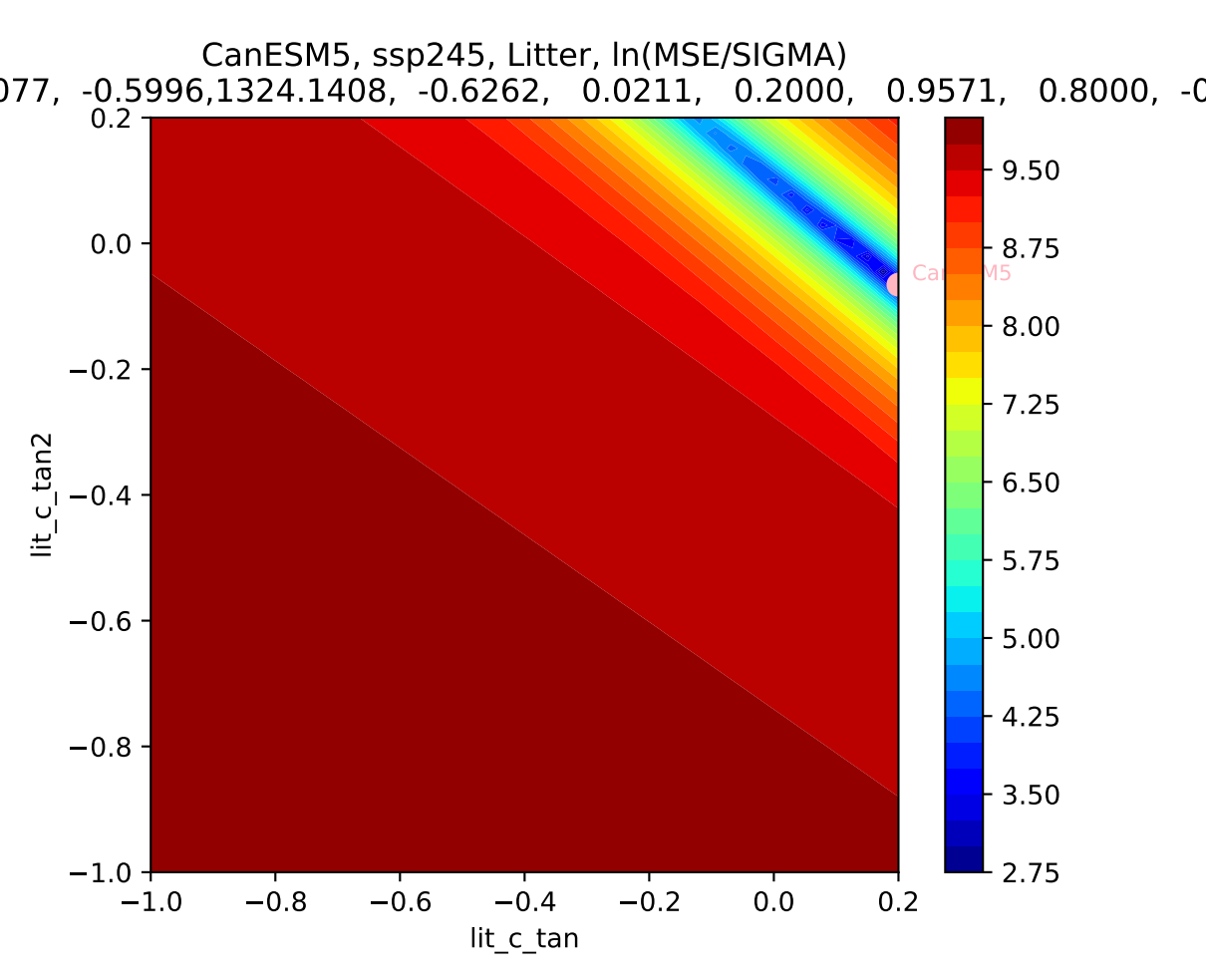

CanESM5, ssp245, Litter
ESM
Fit
Litter
c_atm

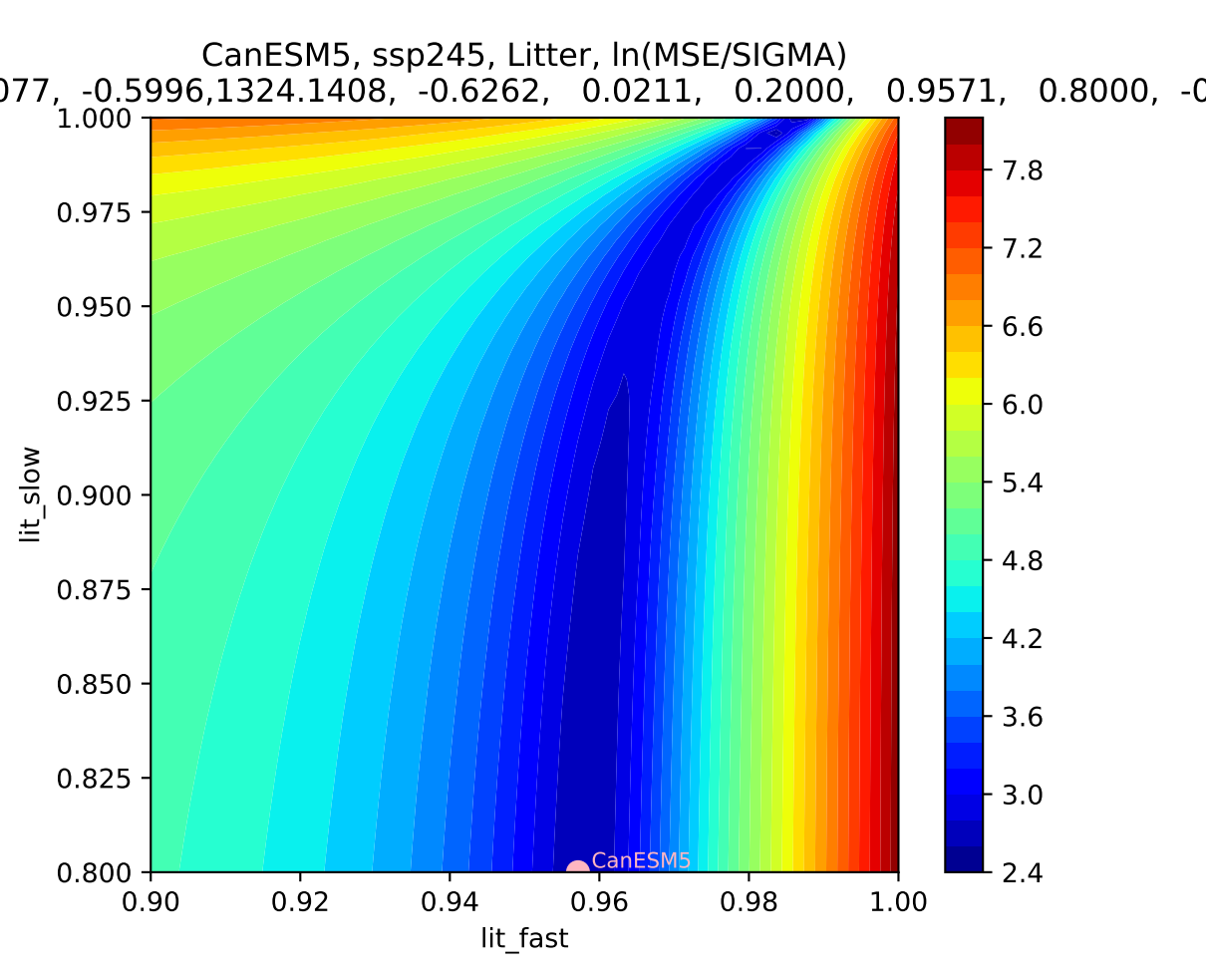

CanESM5, ssp245, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

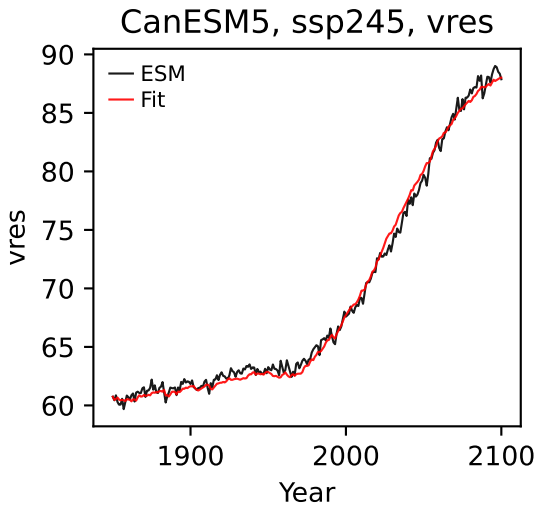

CanESM5, ssp245, Litter, ln(MSE/SIGMA)
077, -0.5996,1324.1408, -0.6262, 0.0211, 0.2000, 0.9571, 0.8000, -0
CanESM5
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
12.3
11.4
10.5
9.6
8.7
7.8
6.9
6.0
5.1
4.2

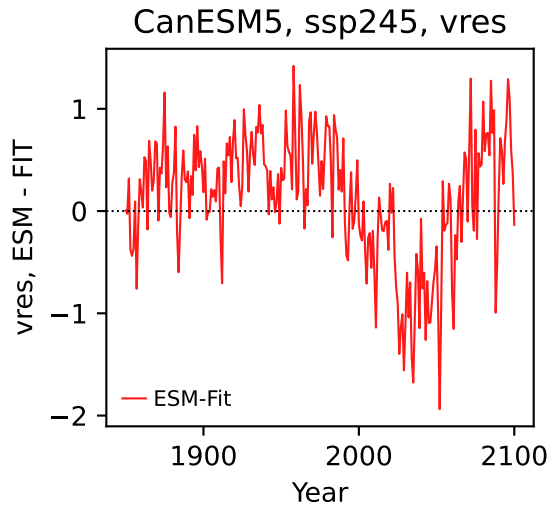

CanESM5, ssp245, Litter, ln(MSE/SIGMA)
077, -0.5996,1324.1408, -0.6262, 0.0211, 0.2000, 0.9571, 0.8000, -0
CanESM5
lit_c_half
lit_c_l
2000
1750
1500
1250
1000
750
500
250
0
−1.00
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00
9.00
8.25
7.50
6.75
6.00
5.25
4.50
3.75
3.00
2.25

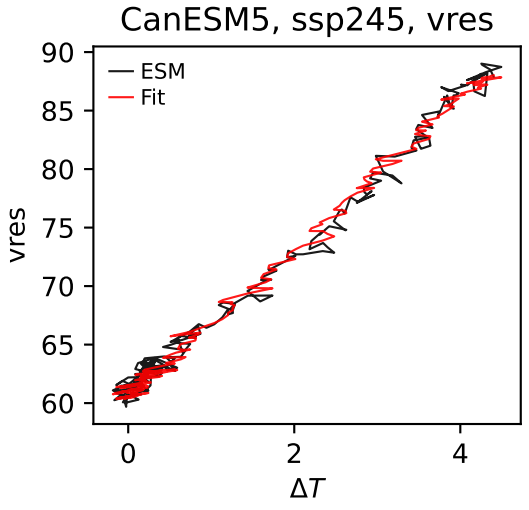

CanESM5, ssp245, Litter, ln(MSE/SIGMA)
077, -0.5996,1324.1408, -0.6262, 0.0211, 0.2000, 0.9571, 0.8000, -0
CanESM5
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
11.7
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6

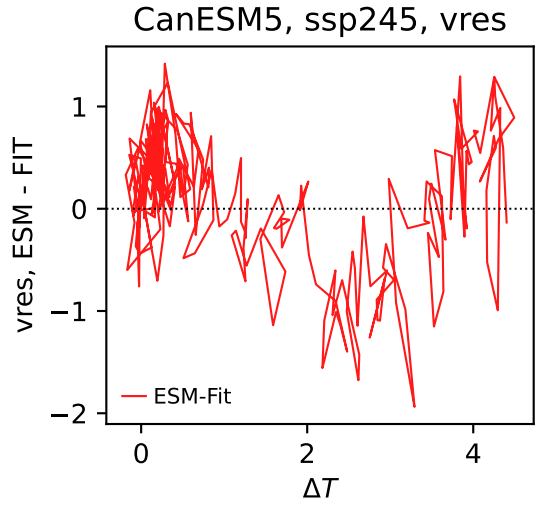

CanESM5, ssp245, Litter, ln(MSE/SIGMA)
077, -0.5996,1324.1408, -0.6262, 0.0211, 0.2000, 0.9571, 0.8000, -0
lit_c_tan2
lit_c_tan
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
9.50
8.75
8.00
7.25
6.50
5.75
5.00
4.25
3.50
2.75

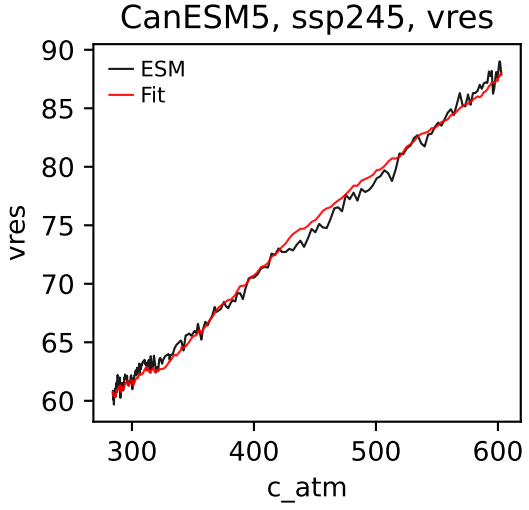

CanESM5, ssp245, Litter, ln(MSE/SIGMA)
077, -0.5996,1324.1408, -0.6262, 0.0211, 0.2000, 0.9571, 0.8000, -0
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
lit_slow
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
CanESM5
7.8
7.2
6.6
6.0
5.4
4.8
4.2
3.6
3.0
2.4

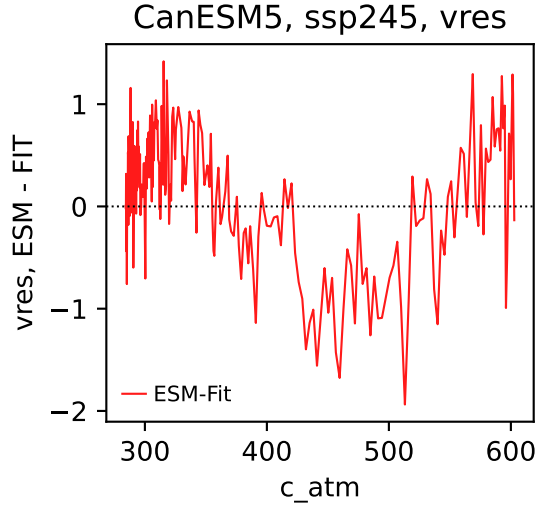

CanESM5, ssp245, vres
ESM
Fit
vres
Year

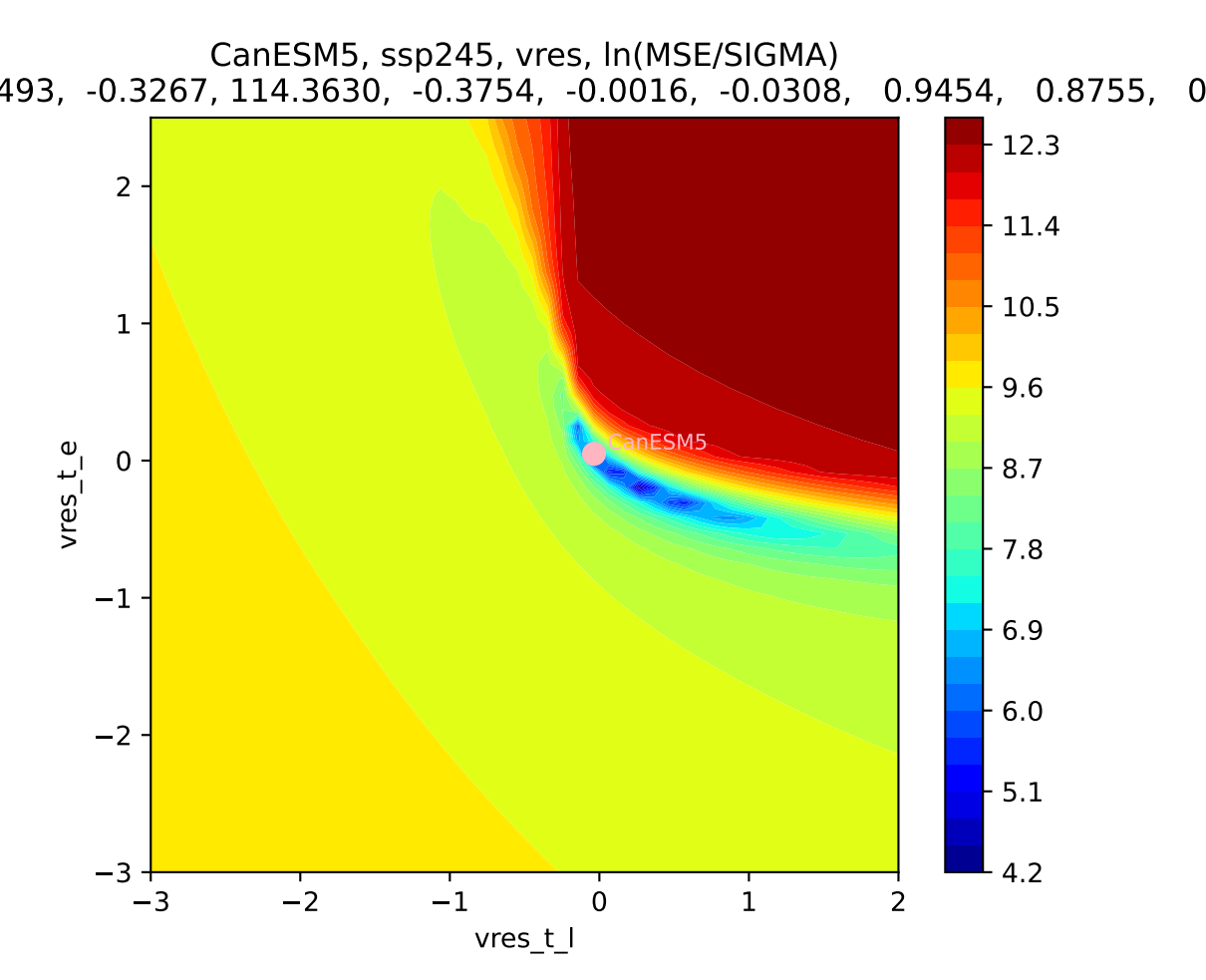

CanESM5, ssp245, vres
vres, ESM - FIT
ESM-Fit
Year

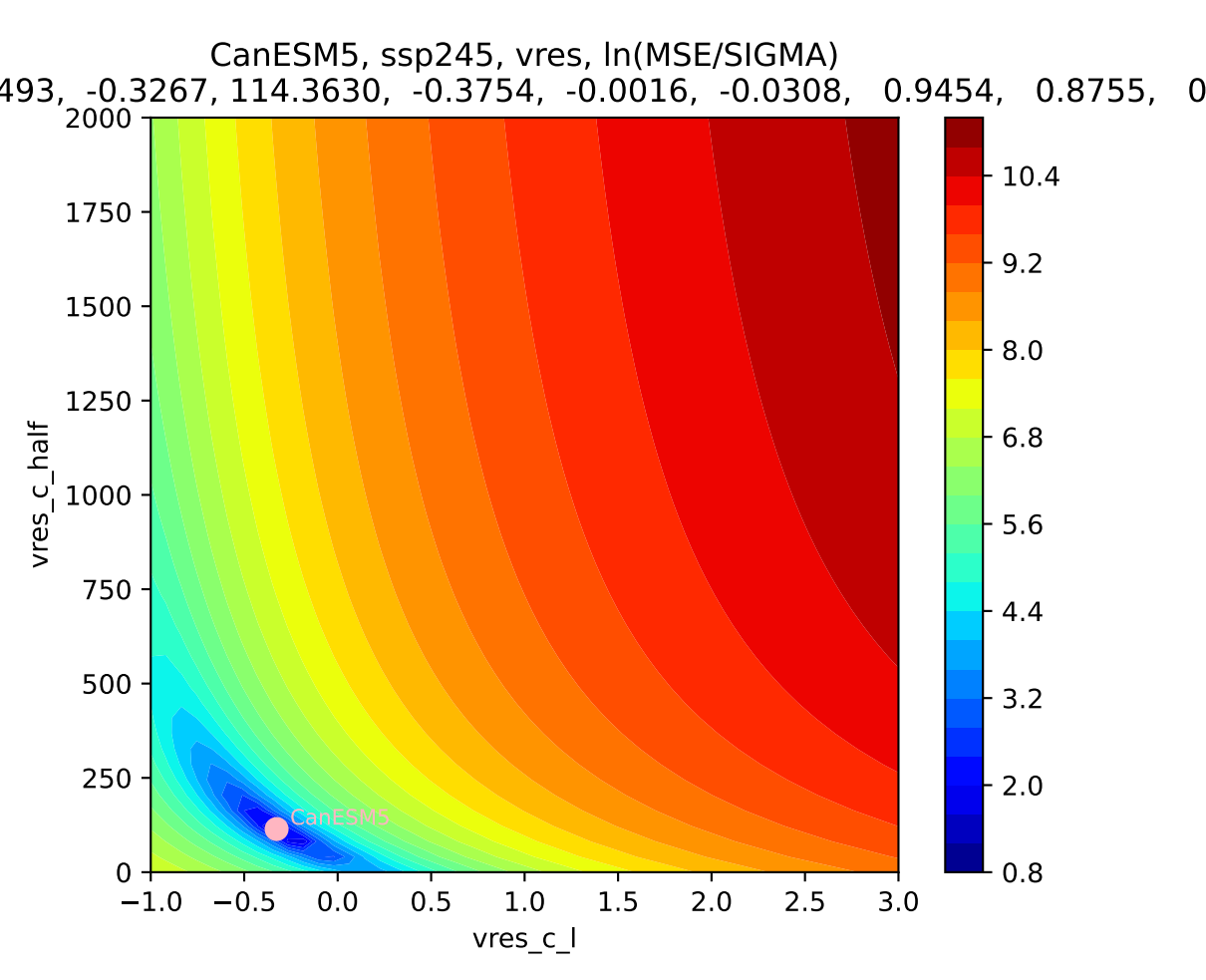

CanESM5, ssp245, vres
ESM
Fit
vres
ΔT

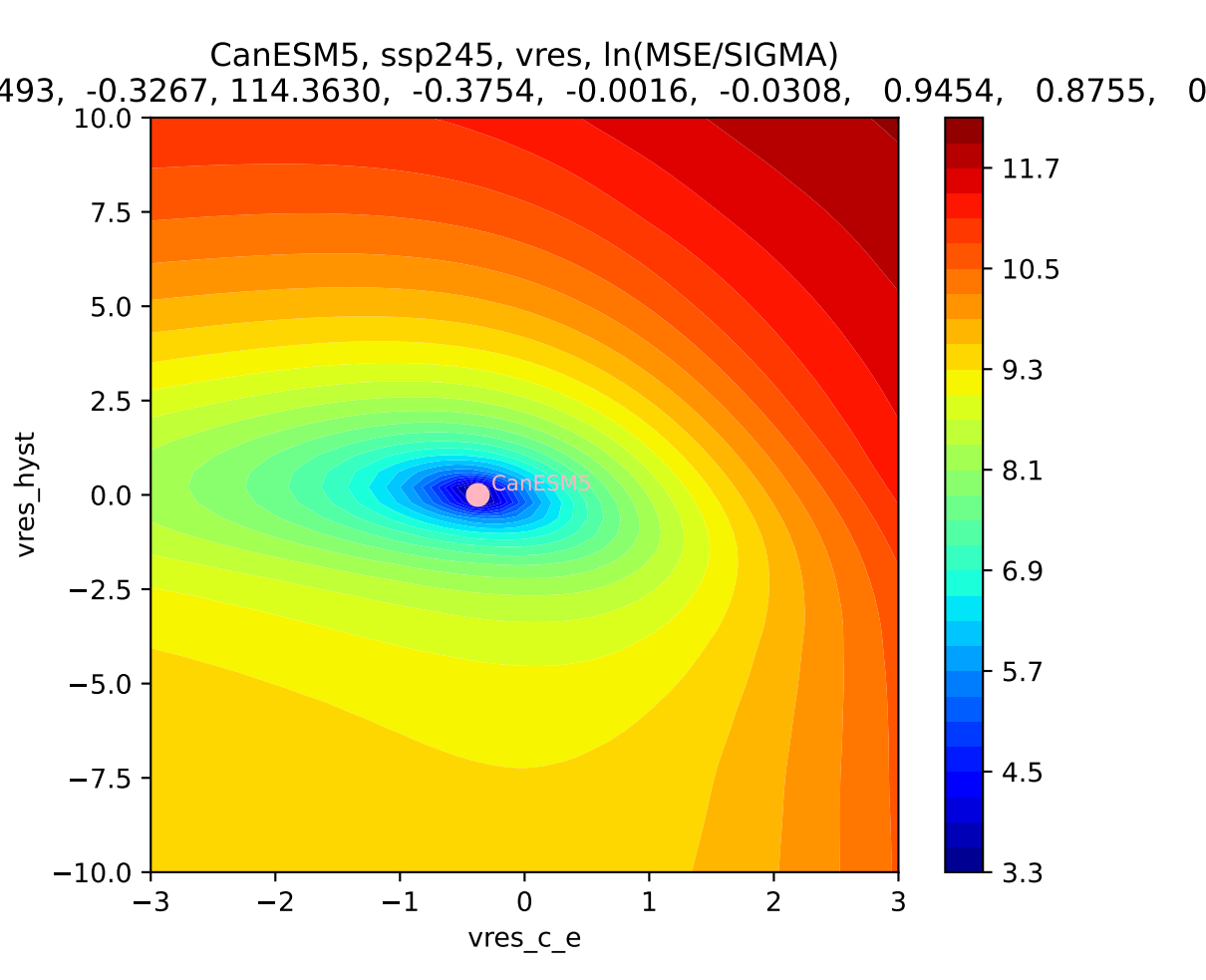

CanESM5, ssp245, vres
vres, ESM - FIT
ESM-Fit
ΔT

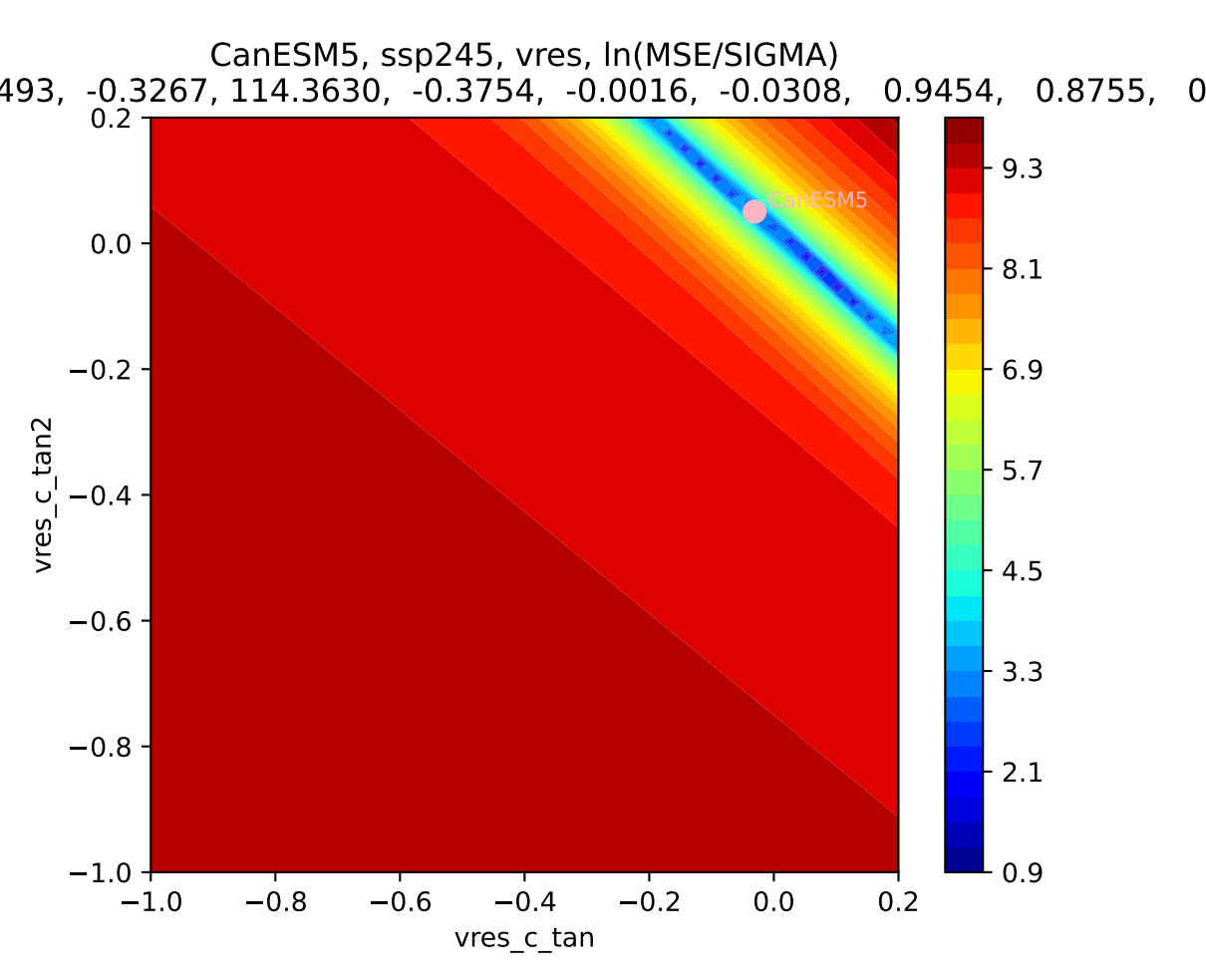

CanESM5, ssp245, vres
ESM
Fit
vres
c_atm

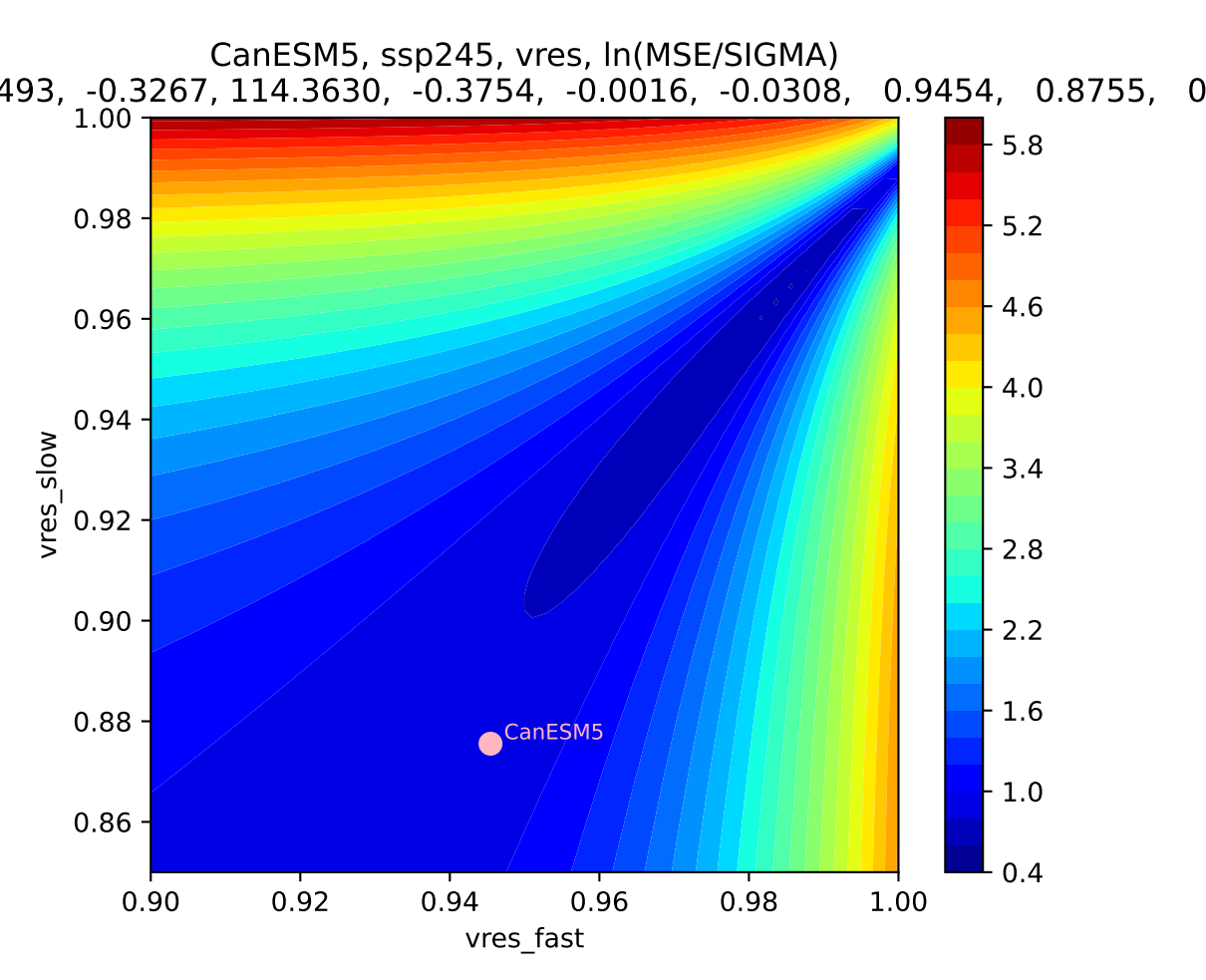

CanESM5, ssp245, vres
vres, ESM - FIT
ESM-Fit
c_atm

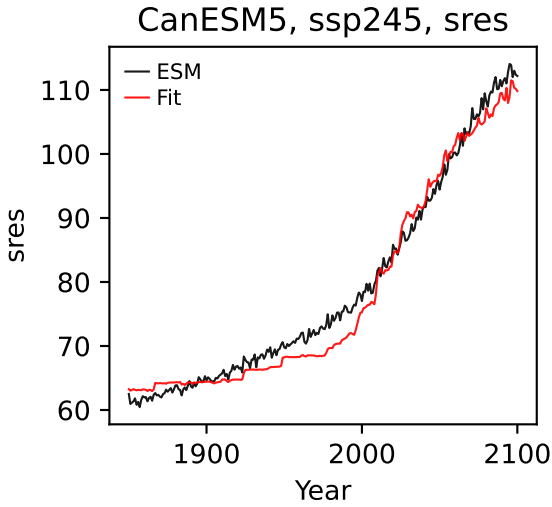

CanESM5, ssp245, vres, ln(MSE/SIGMA)
493, -0.3267, 114.3630, -0.3754, -0.0016, -0.0308, 0.9454, 0.8755, 0
CanESM5
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
12.3
11.4
10.5
9.6
8.7
7.8
6.9
6.0
5.1
4.2

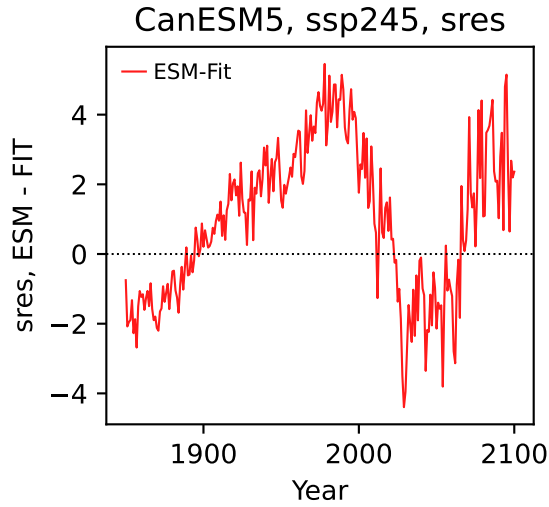

CanESM5, ssp245, vres, ln(MSE/SIGMA)
493, -0.3267, 114.3630, -0.3754, -0.0016, -0.0308, 0.9454, 0.8755, 0
vres_c_half
vres_c_l
CanESM5
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
10.4
9.2
8.0
6.8
5.6
4.4
3.2
2.0
0.8

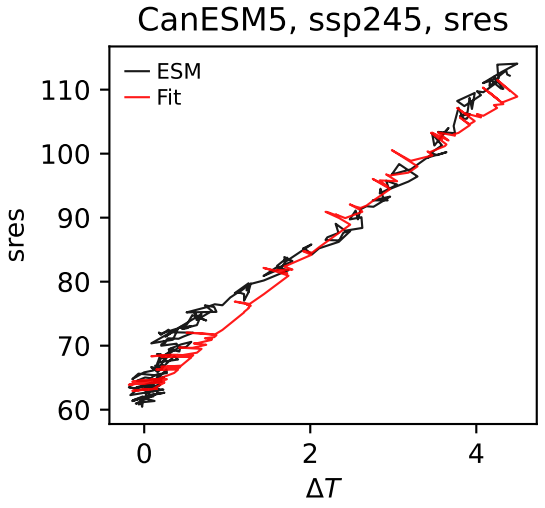

CanESM5, ssp245, vres, ln(MSE/SIGMA)
493, -0.3267, 114.3630, -0.3754, -0.0016, -0.0308, 0.9454, 0.8755, 0
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
vres_hyst
CanESM5
−3
−2
−1
0
1
2
3
vres_c_e
11.7
10.5
9.3
8.1
6.9
5.7
4.5
3.3

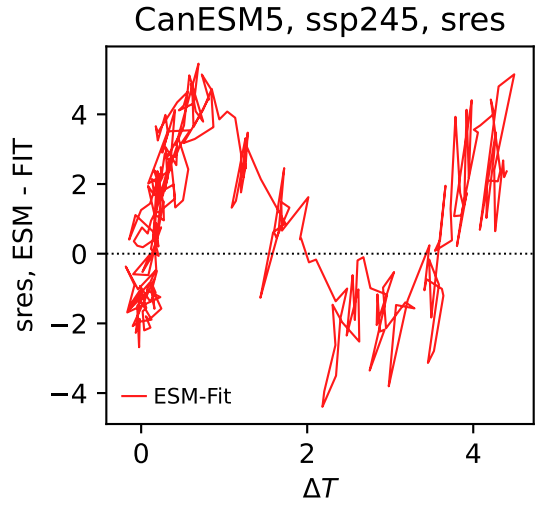

CanESM5, ssp245, vres, ln(MSE/SIGMA)
493, -0.3267, 114.3630, -0.3754, -0.0016, -0.0308, 0.9454, 0.8755, 0
CanESM5
vres_c_tan
vres_c_tan2
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
9.3
8.1
6.9
5.7
4.5
3.3
2.1
0.9

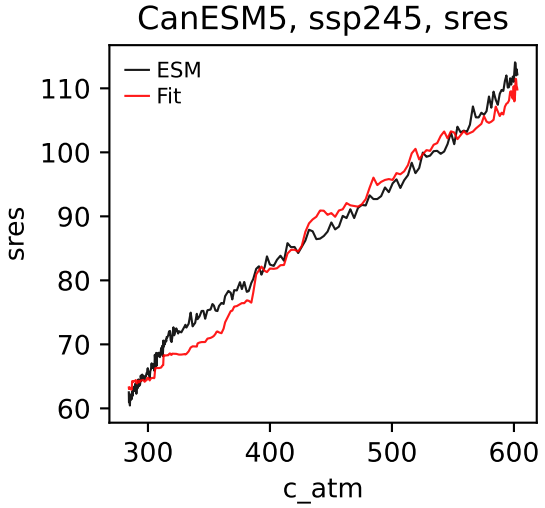

CanESM5, ssp245, vres, ln(MSE/SIGMA)
493, -0.3267, 114.3630, -0.3754, -0.0016, -0.0308, 0.9454, 0.8755, 0
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
vres_slow
CanESM5
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast
5.8
5.2
4.6
4.0
3.4
2.8
2.2
1.6
1.0
0.4

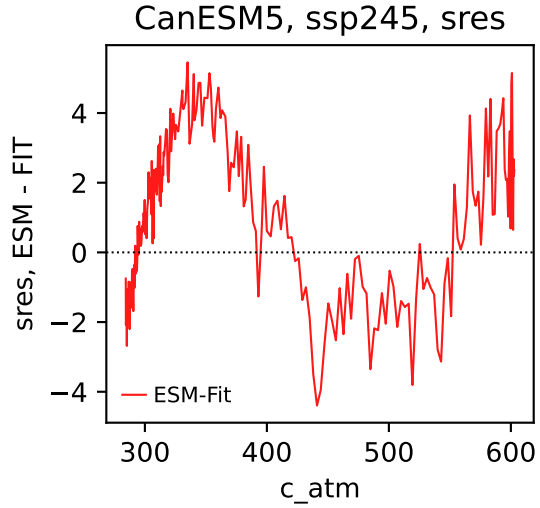

CanESM5, ssp245, sres
ESM
Fit
sres
Year

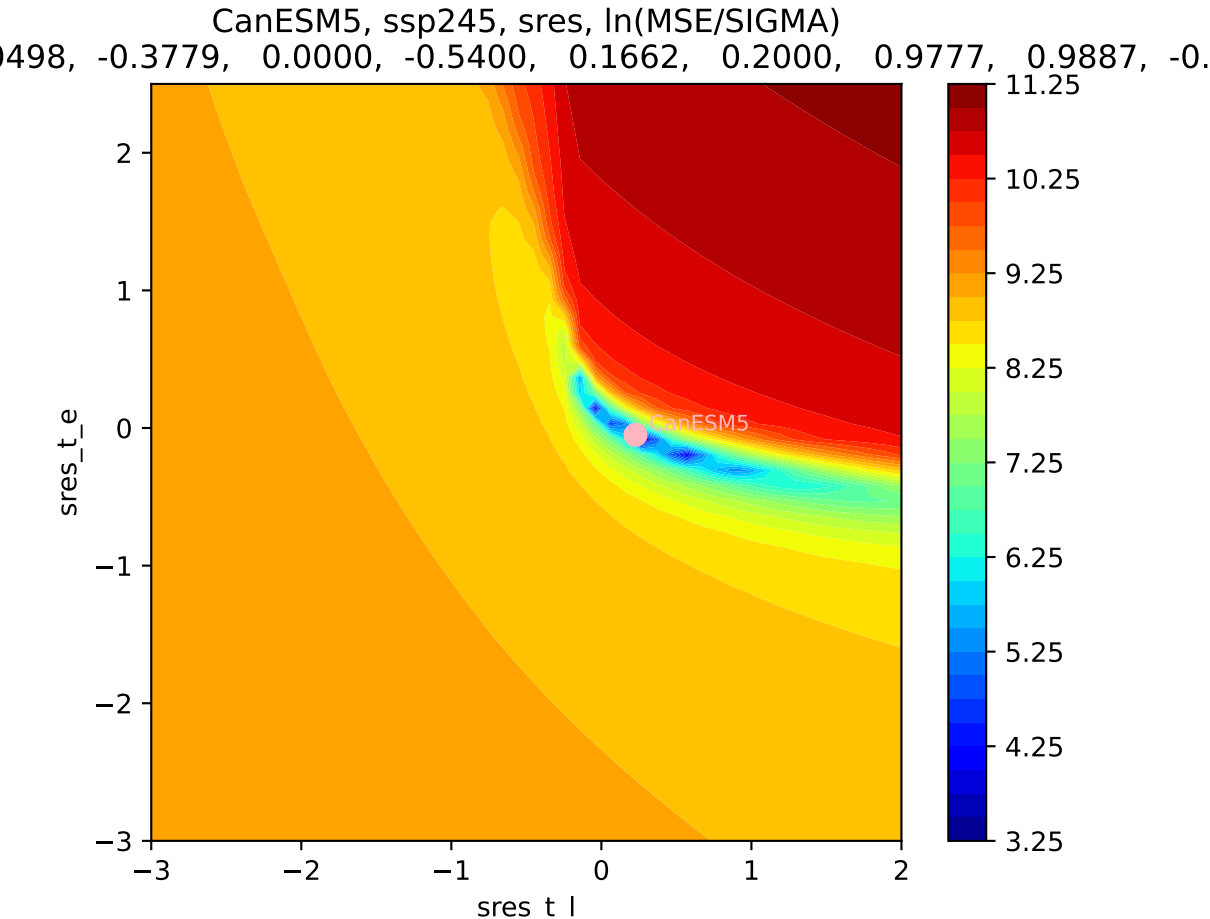

CanESM5, ssp245, sres
ESM-Fit
sres, ESM - FIT
Year

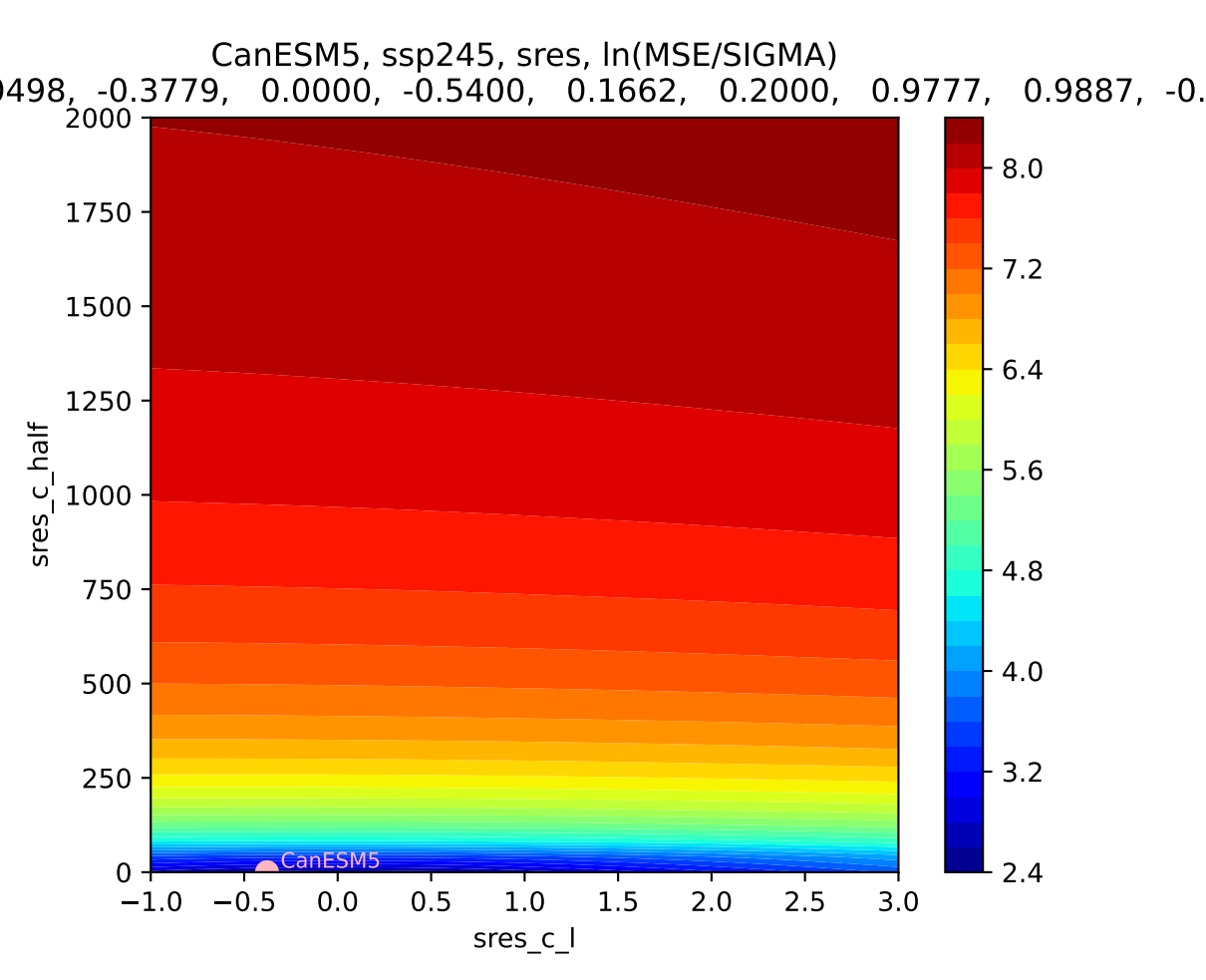

CanESM5, ssp245, sres
ESM
Fit
sres
ΔT

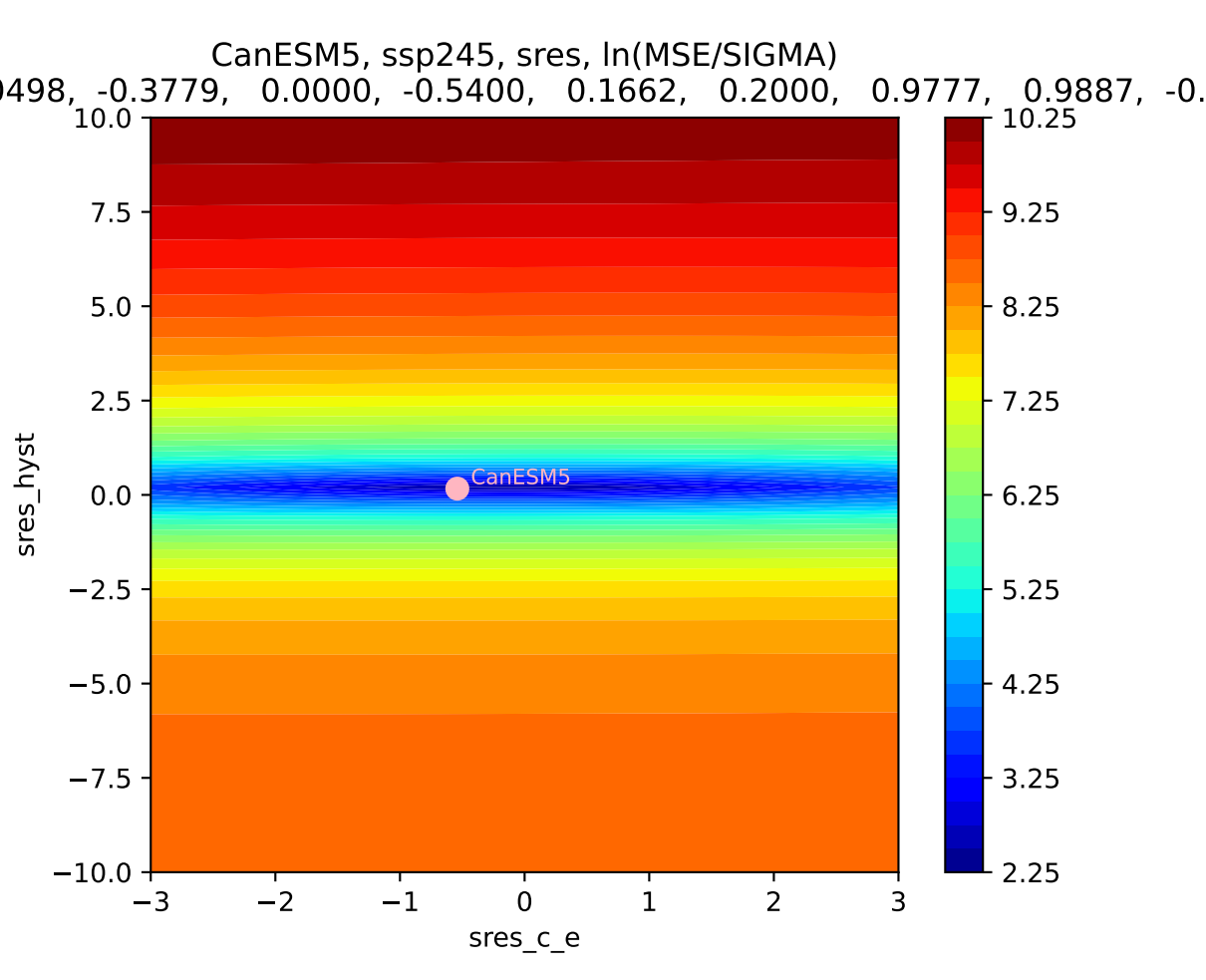

CanESM5, ssp245, sres
ESM-Fit
sres, ESM - FIT
ΔT

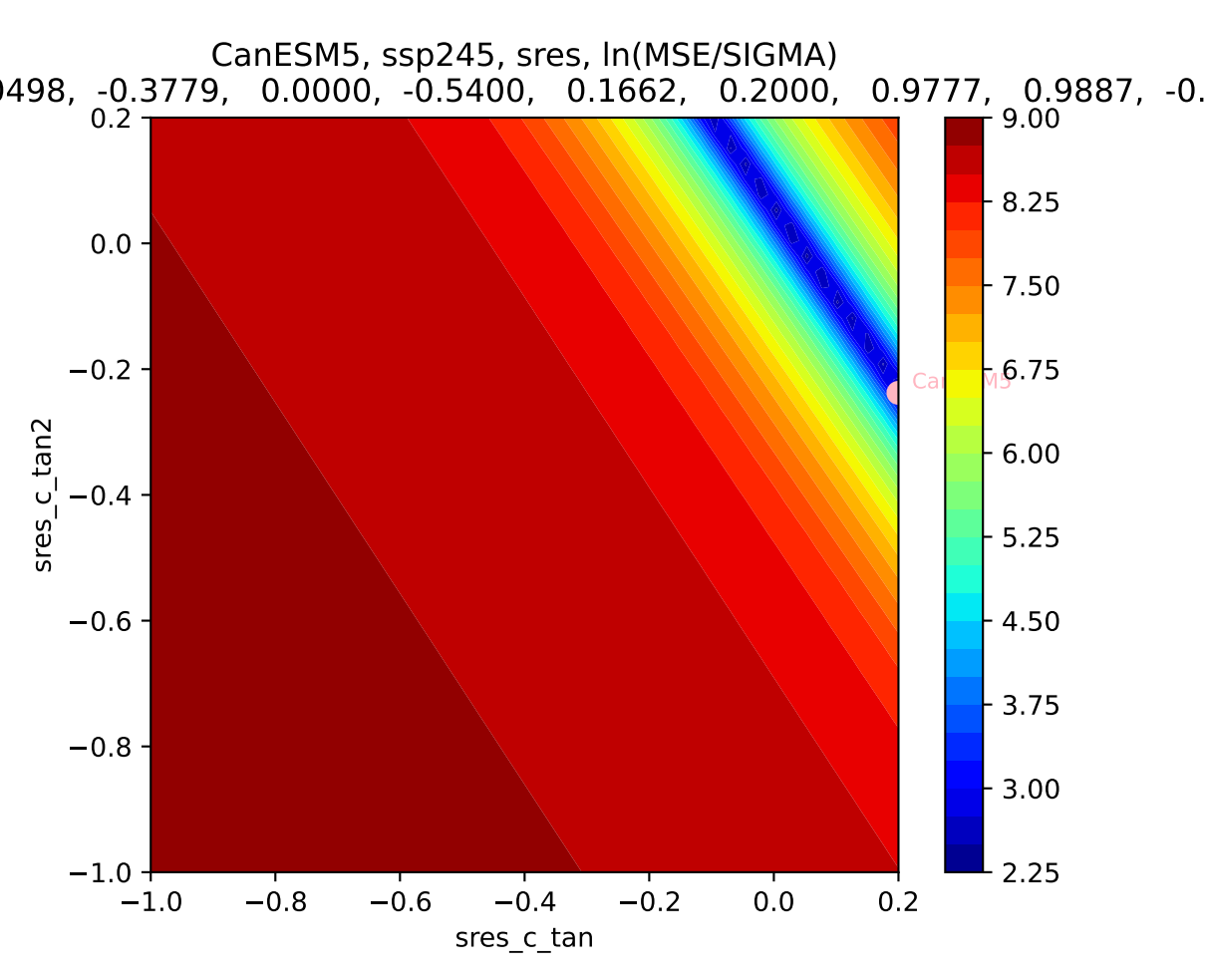

CanESM5, ssp245, sres
ESM
Fit
sres
c_atm

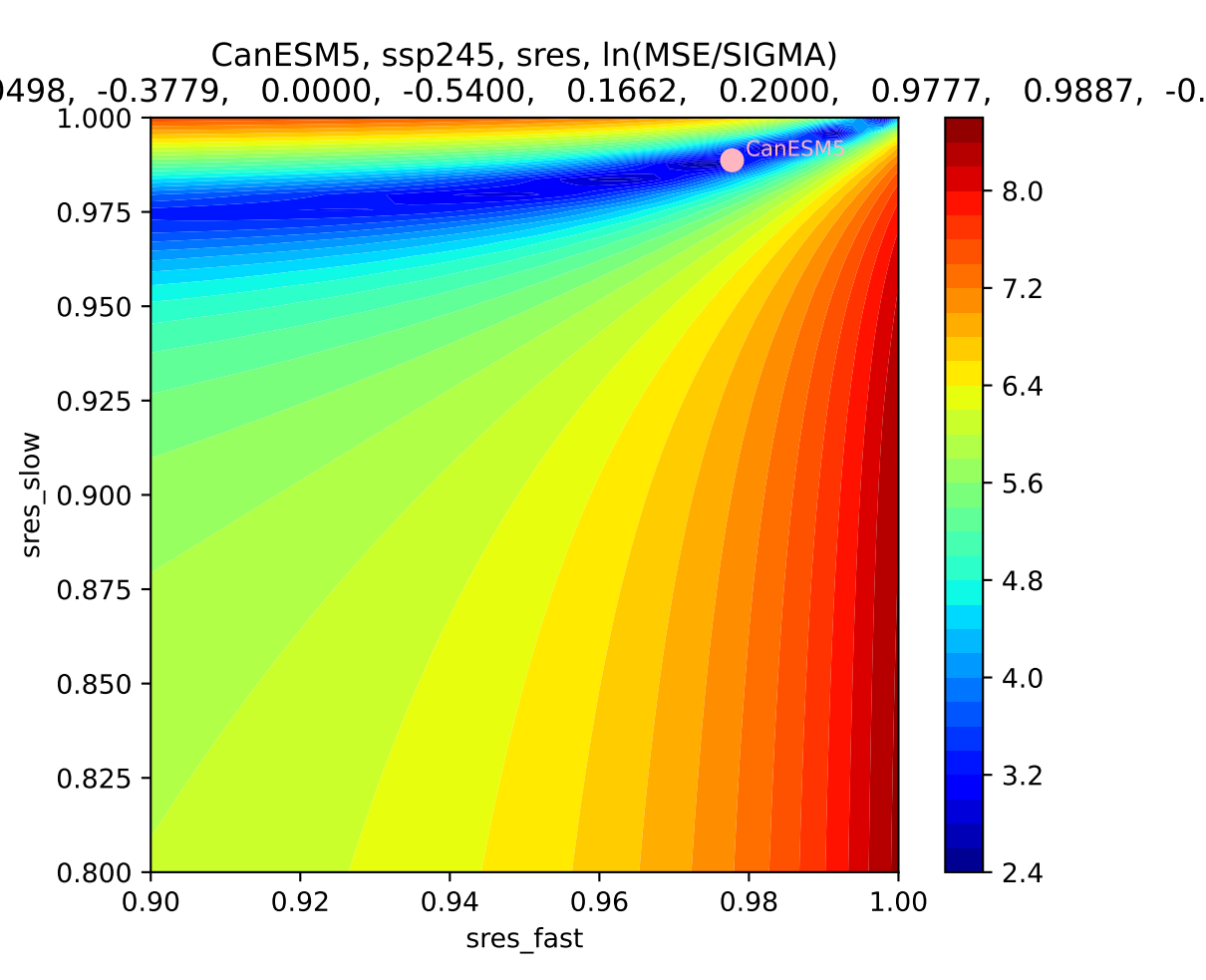

CanESM5, ssp245, sres
ESM-Fit
sres, ESM - FIT
c_atm

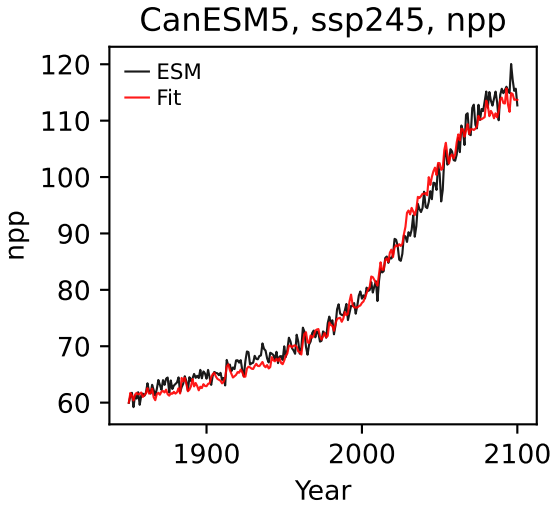

CanESM5, ssp245, sres, ln(MSE/SIGMA)
9498, -0.3779, 0.0000, -0.5400, 0.1662, 0.2000, 0.9777, 0.9887, -0.
CanESM5
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
11.25
10.25
9.25
8.25
7.25
6.25
5.25
4.25
3.25

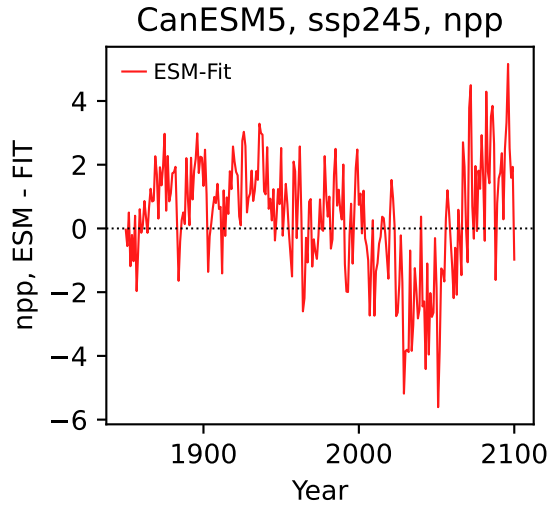

CanESM5, ssp245, sres, ln(MSE/SIGMA)
9498, -0.3779, 0.0000, -0.5400, 0.1662, 0.2000, 0.9777, 0.9887, -0.
sres_c_half
sres_c_l
CanESM5
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.0
7.2
6.4
5.6
4.8
4.0
3.2
2.4

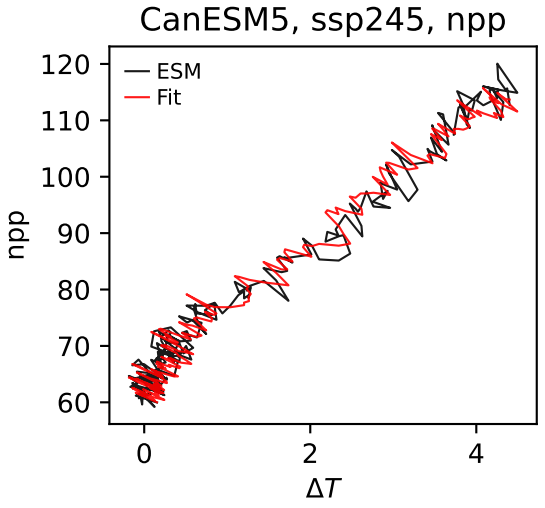

CanESM5, ssp245, sres, ln(MSE/SIGMA)
9498, -0.3779, 0.0000, -0.5400, 0.1662, 0.2000, 0.9777, 0.9887, -0.
CanESM5
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.25
9.25
8.25
7.25
6.25
5.25
4.25
3.25
2.25

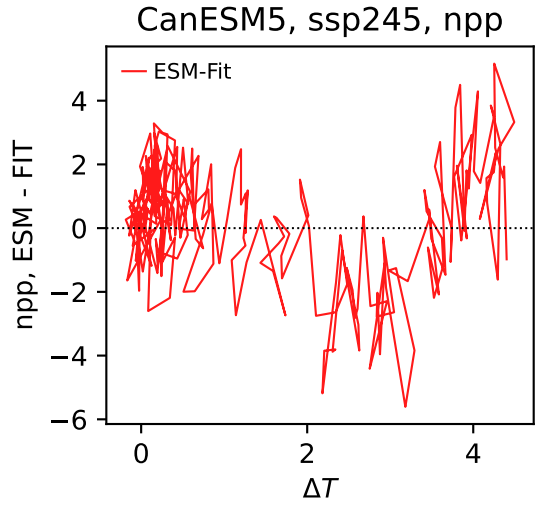

CanESM5, ssp245, sres, ln(MSE/SIGMA)
9498, -0.3779, 0.0000, -0.5400, 0.1662, 0.2000, 0.9777, 0.9887, -0.
sres_c_tan2
sres_c_tan
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
9.00
8.25
7.50
6.75
6.00
5.25
4.50
3.75
3.00
2.25

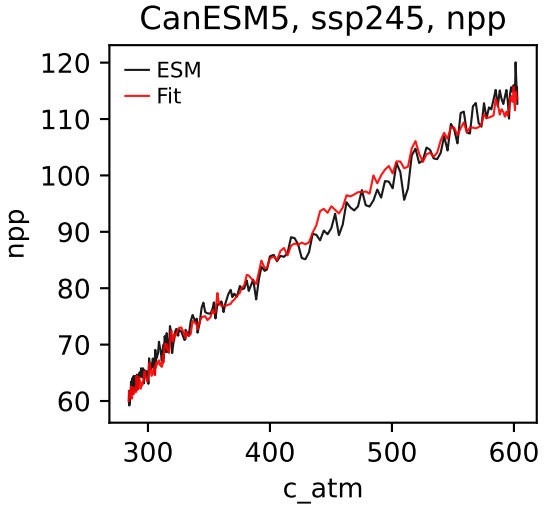

CanESM5, ssp245, sres, ln(MSE/SIGMA)
9498, -0.3779, 0.0000, -0.5400, 0.1662, 0.2000, 0.9777, 0.9887, -0.
CanESM5
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
sres_slow
0.90
0.92
0.94
0.96
0.98
1.00
sres_fast
8.0
7.2
6.4
5.6
4.8
4.0
3.2
2.4

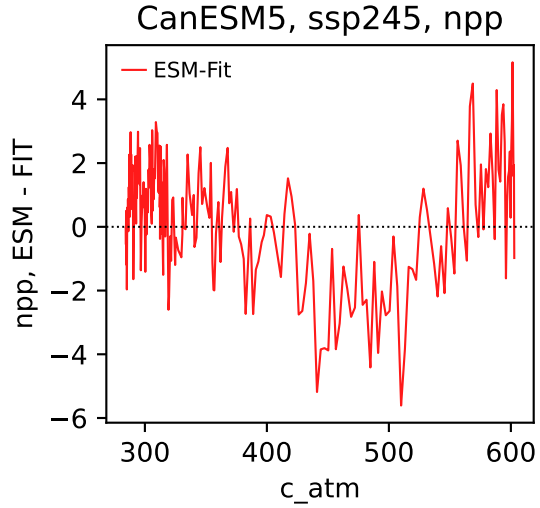

CanESM5, ssp245, npp
ESM
Fit
npp
Year

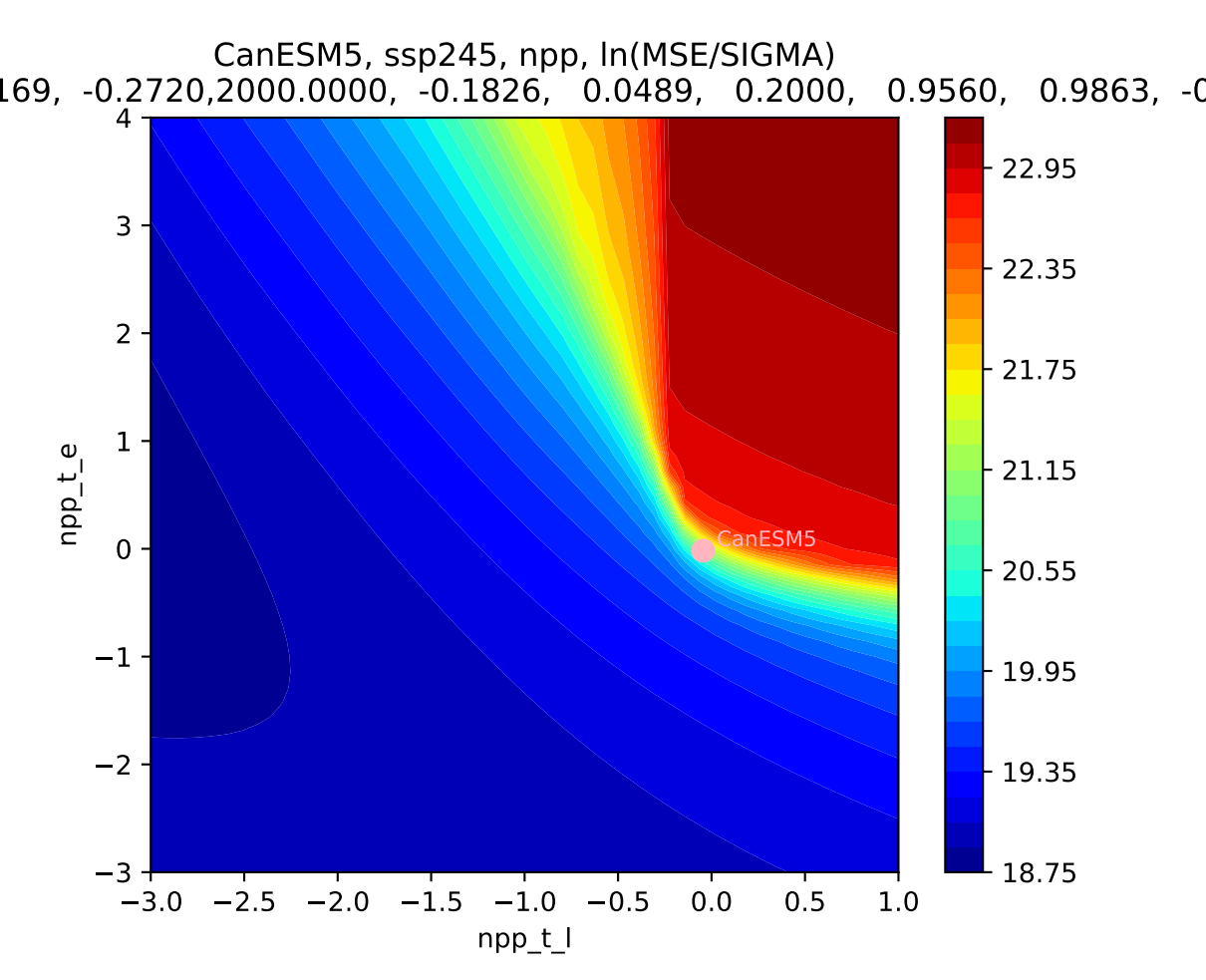

CanESM5, ssp245, npp
ESM-Fit
npp, ESM - FIT
Year

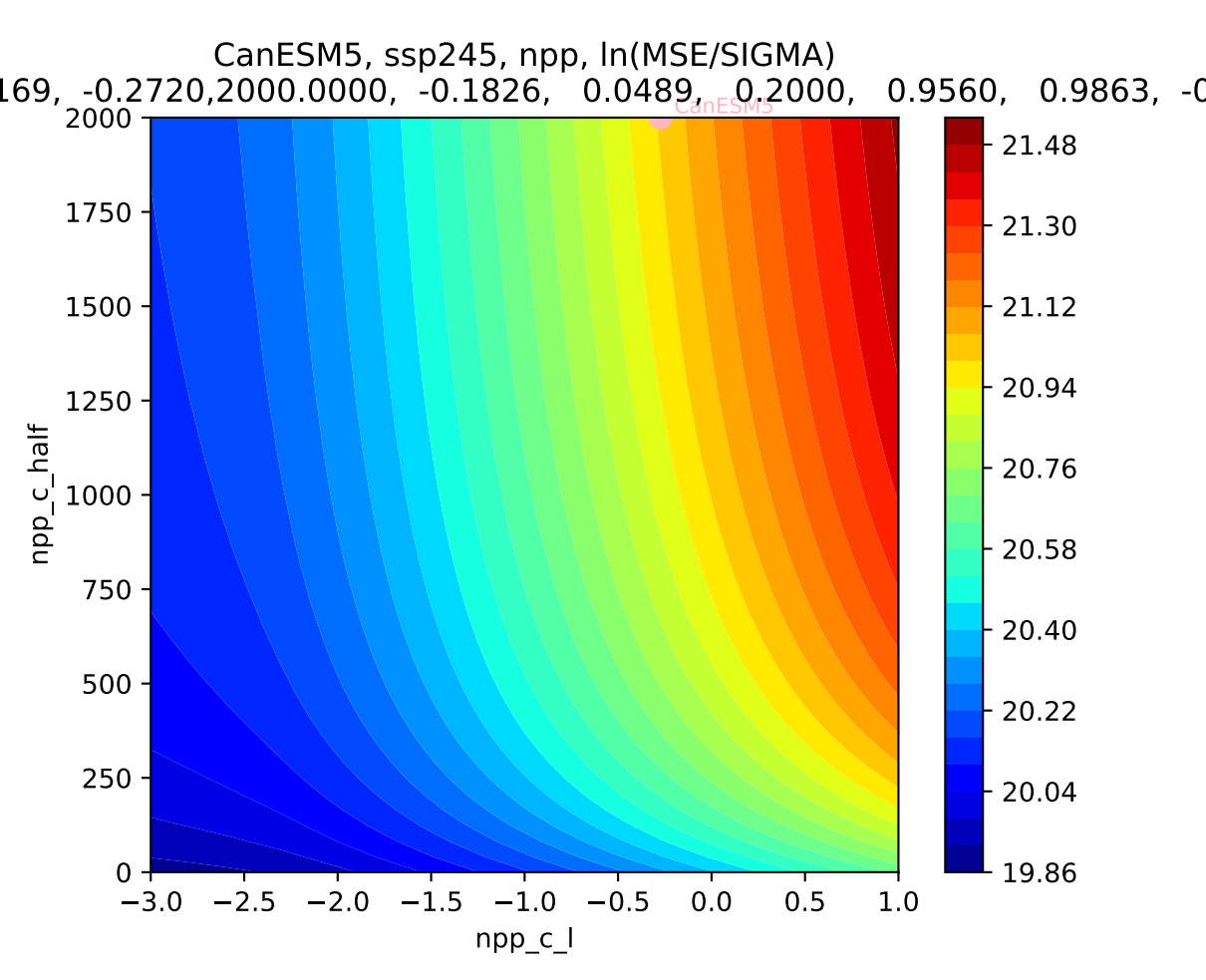

CanESM5, ssp245, npp
ESM
Fit
npp
ΔT

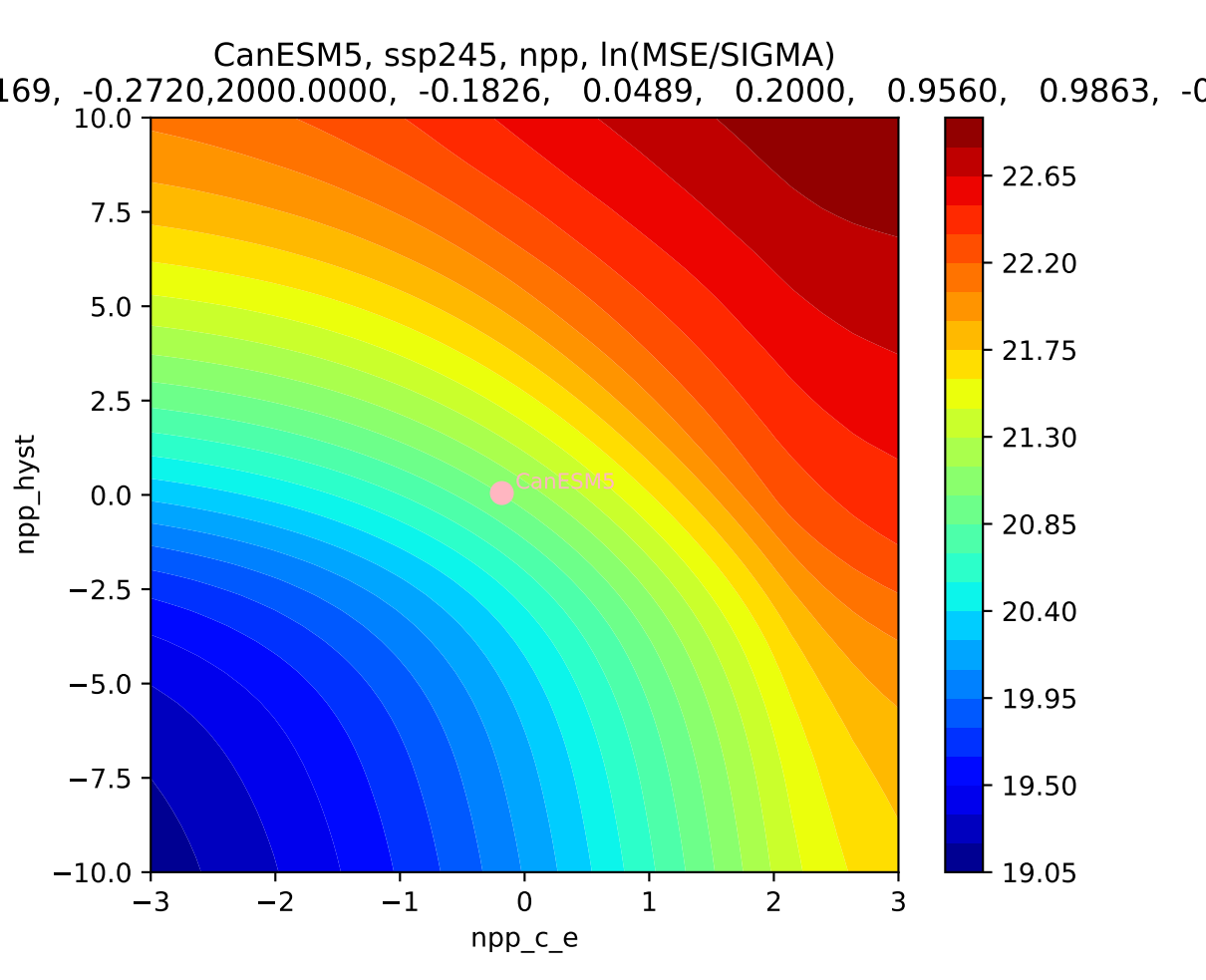

CanESM5, ssp245, npp
ESM-Fit
npp, ESM - FIT
ΔT

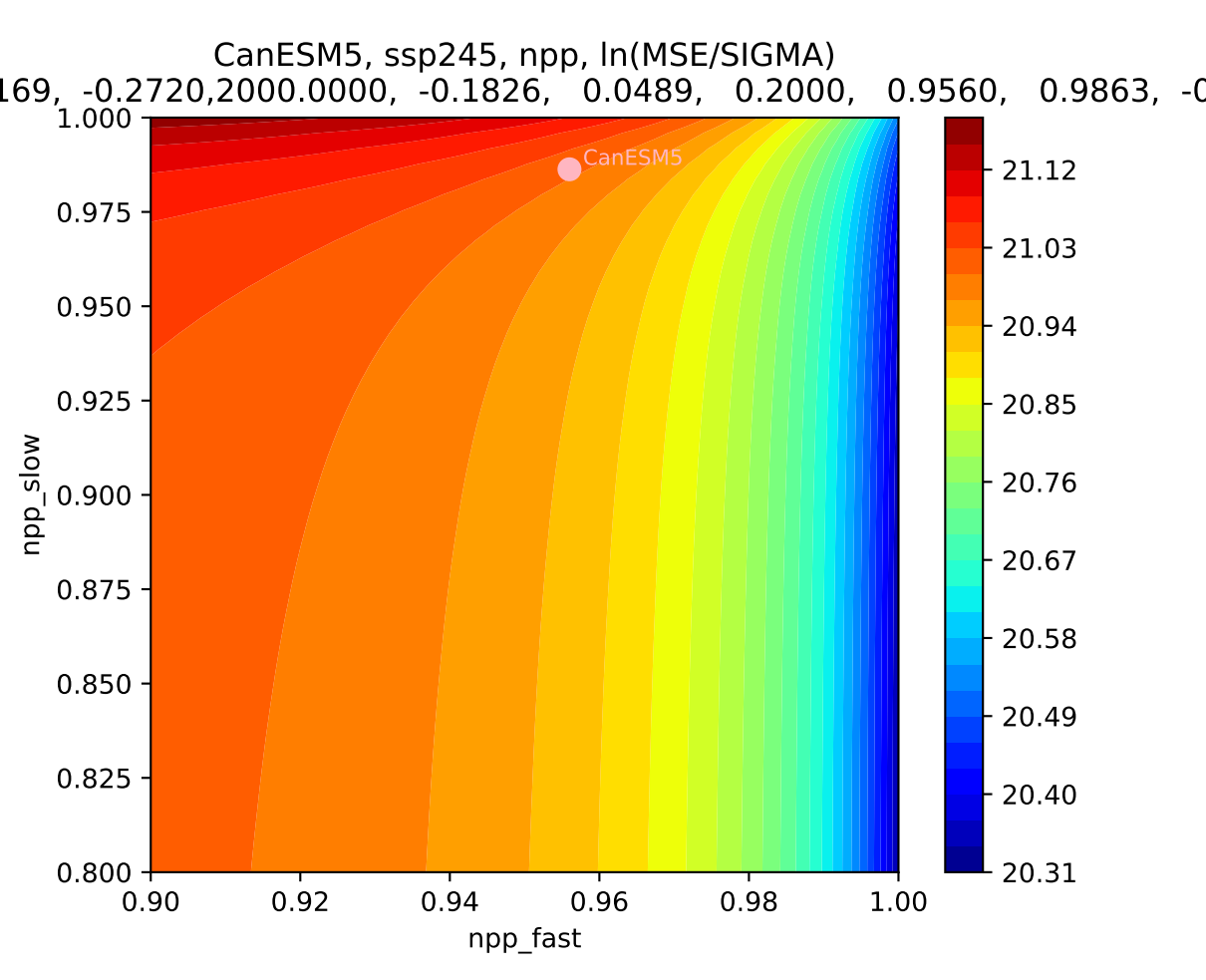

CanESM5, ssp245, npp
ESM
Fit
npp
c_atm


CanESM5, ssp245, npp
ESM-Fit
npp, ESM - FIT
c_atm


CanESM5, ssp245, npp, ln(MSE/SIGMA)
169, -0.2720,2000.0000, -0.1826, 0.0489, 0.2000, 0.9560, 0.9863, -0
CanESM5
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.95
22.35
21.75
21.15
20.55
19.95
19.35
18.75


CanESM5, ssp245, npp, ln(MSE/SIGMA)
169, -0.2720,2000.0000, -0.1826, 0.0489, 0.2000, 0.9560, 0.9863, -0
CanESM5
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
21.48
21.30
21.12
20.94
20.76
20.58
20.40
20.22
20.04
19.86


CanESM5, ssp245, npp, ln(MSE/SIGMA)
169, -0.2720,2000.0000, -0.1826, 0.0489, 0.2000, 0.9560, 0.9863, -0
CanESM5
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.65
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05


CanESM5, ssp245, npp, ln(MSE/SIGMA)
169, -0.2720,2000.0000, -0.1826, 0.0489, 0.2000, 0.9560, 0.9863, -0
CanESM5
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
21.12
21.03
20.94
20.85
20.76
20.67
20.58
20.49
20.40
20.31