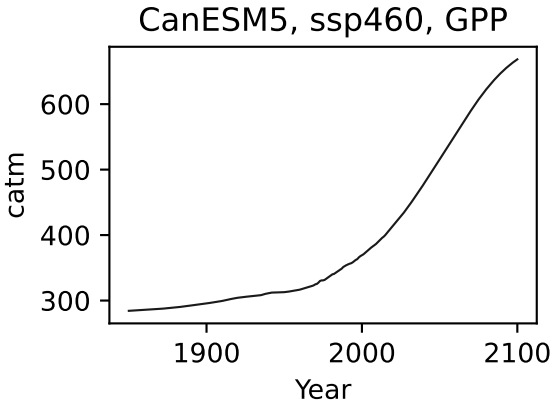
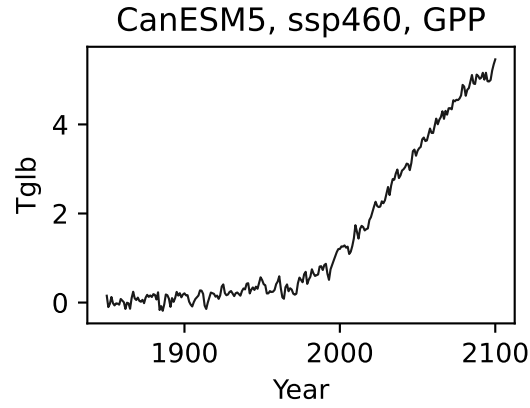
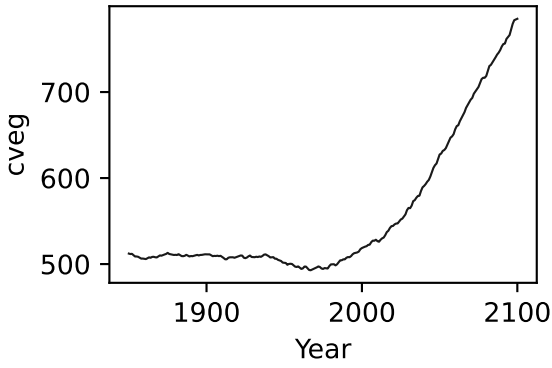
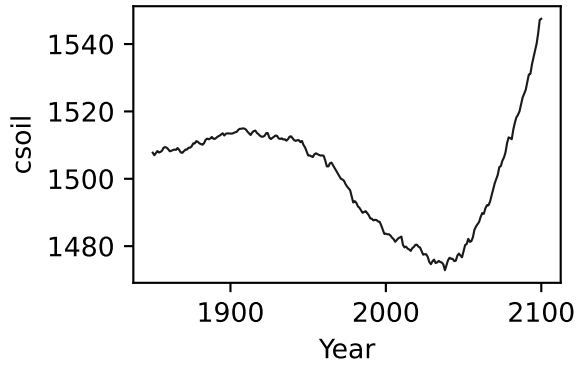
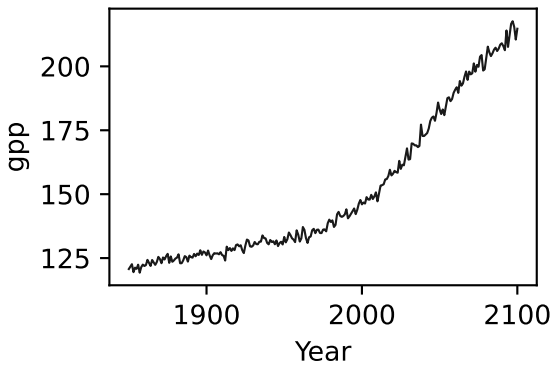
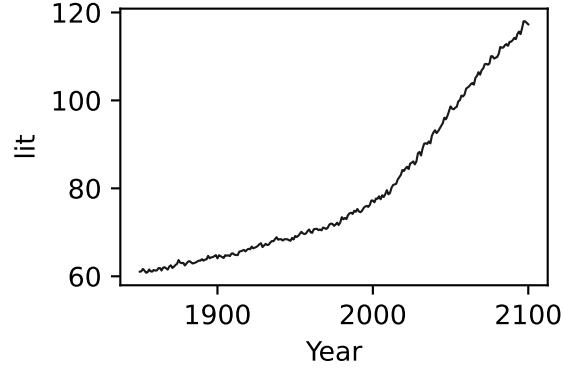

CanESM5, ssp460, GPP
catm
600
500
400
300
1900
2000
2100
Year

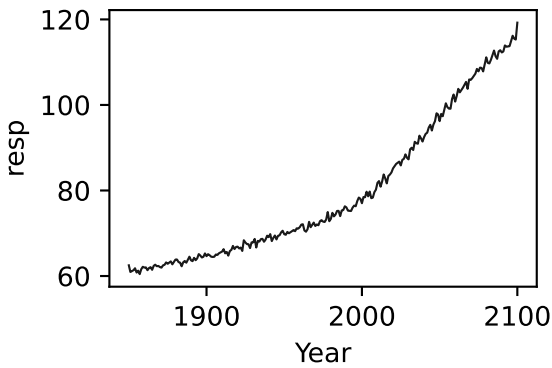

CanESM5, ssp460, GPP
Tglb
4
2
0
1900
2000
2100
Year

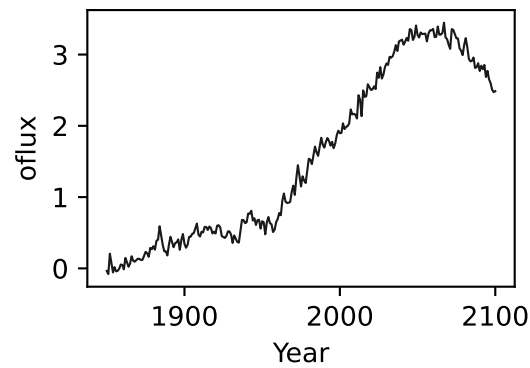

cveg
700
600
500
1900
2000
2100
Year

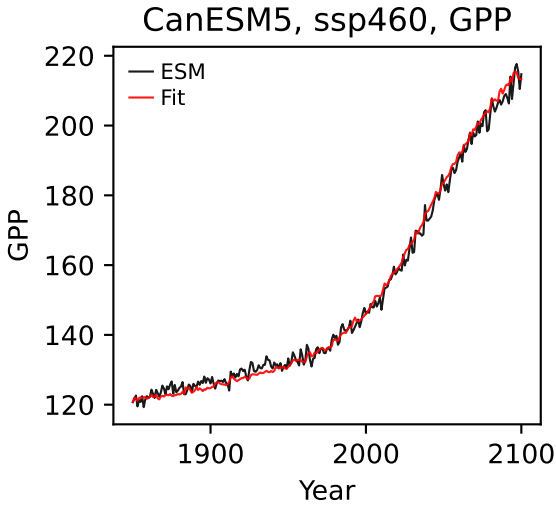

csoil
1540
1520
1500
1480
1900
2000
2100
Year

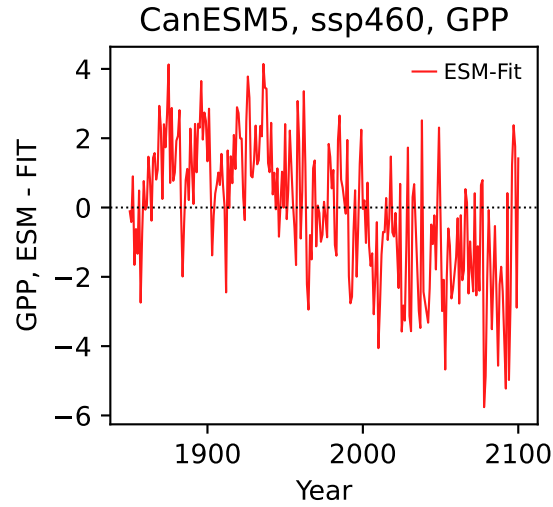

gpp
200
175
150
125
1900
2000
2100
Year

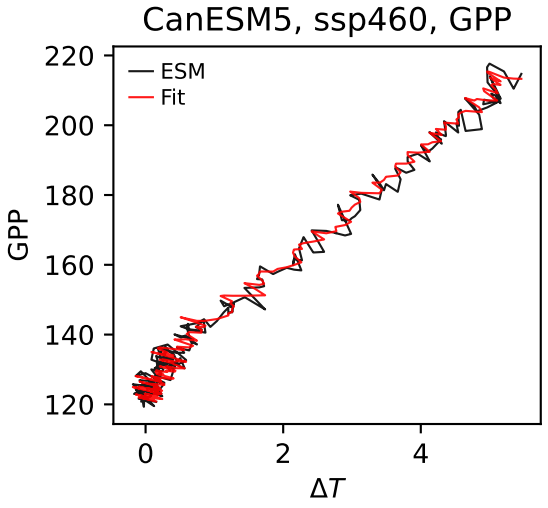

lit
120
100
80
60
1900
2000
2100
Year

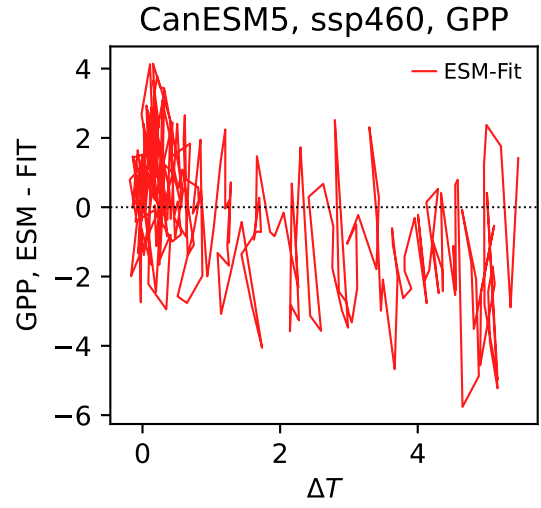

resp
120
100
80
60
1900
2000
2100
Year

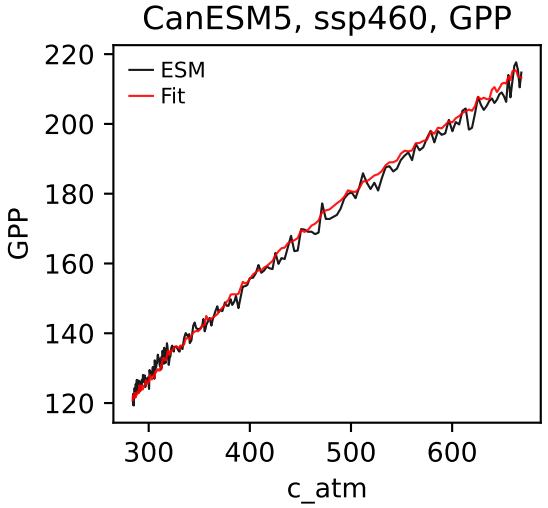

oflux
3
2
1
0
1900
2000
2100
Year

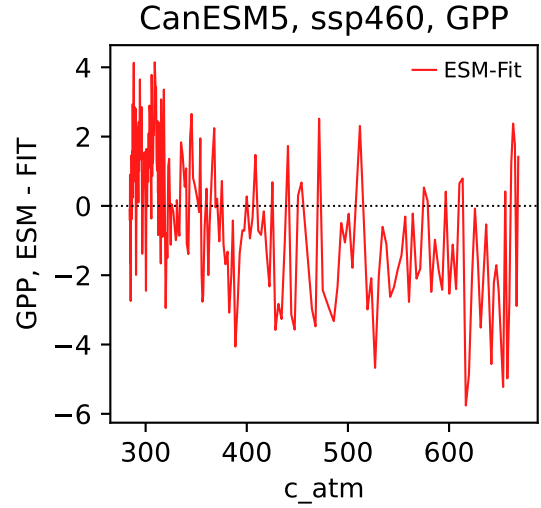

CanESM5, ssp460, GPP
ESM
Fit
GPP
Year

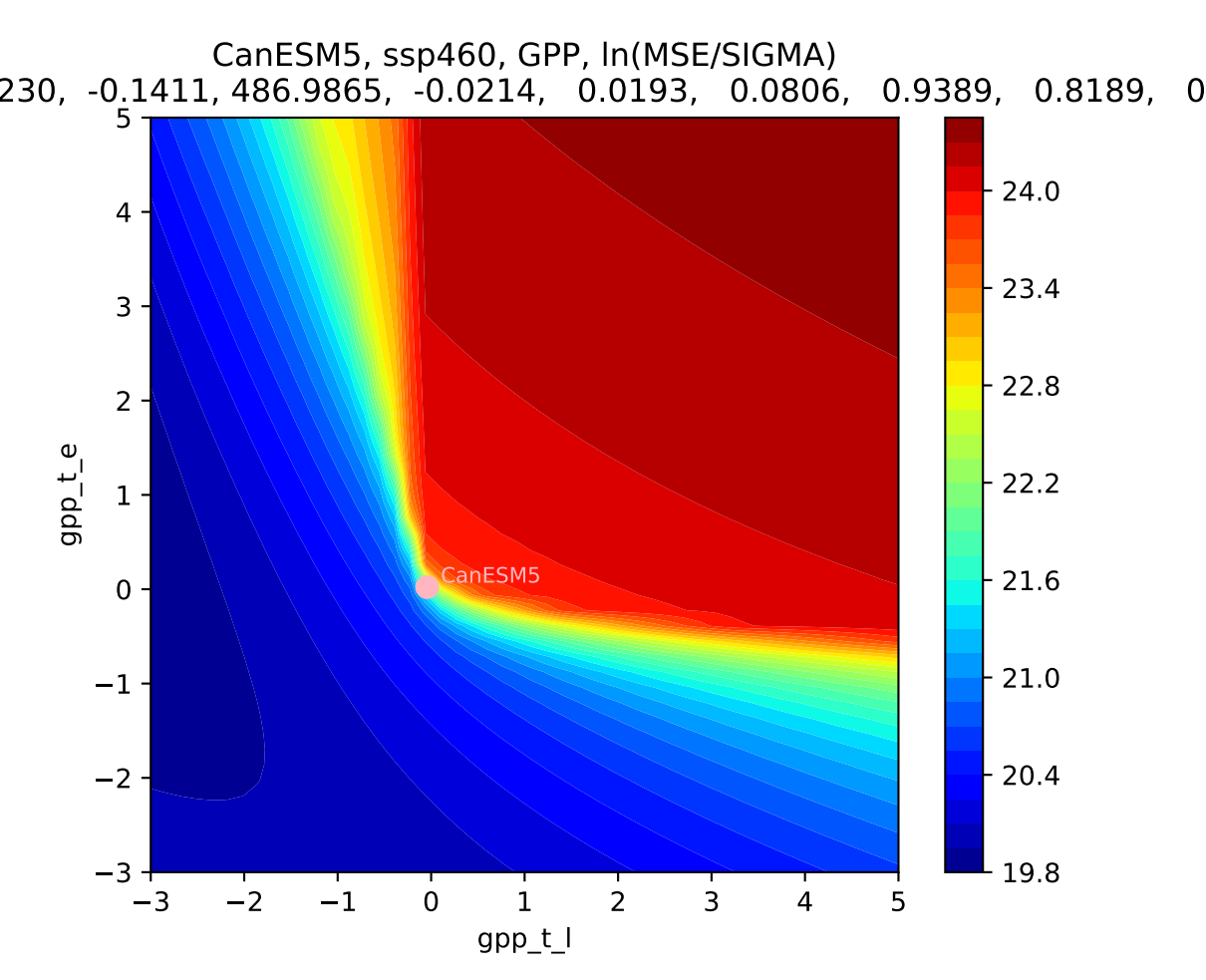

CanESM5, ssp460, GPP
ESM-Fit
GPP, ESM - FIT
Year

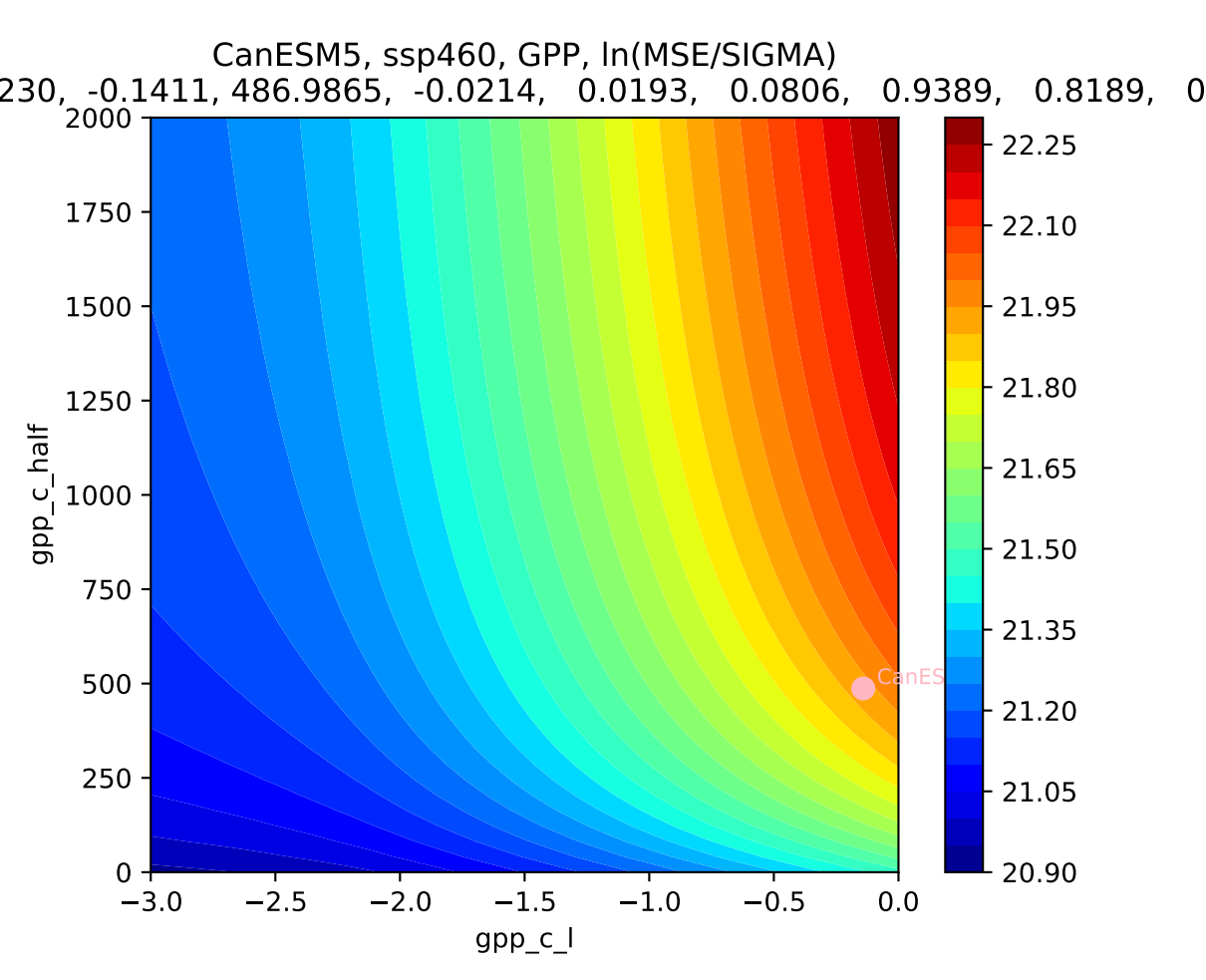

CanESM5, ssp460, GPP
ESM
Fit
GPP
ΔT

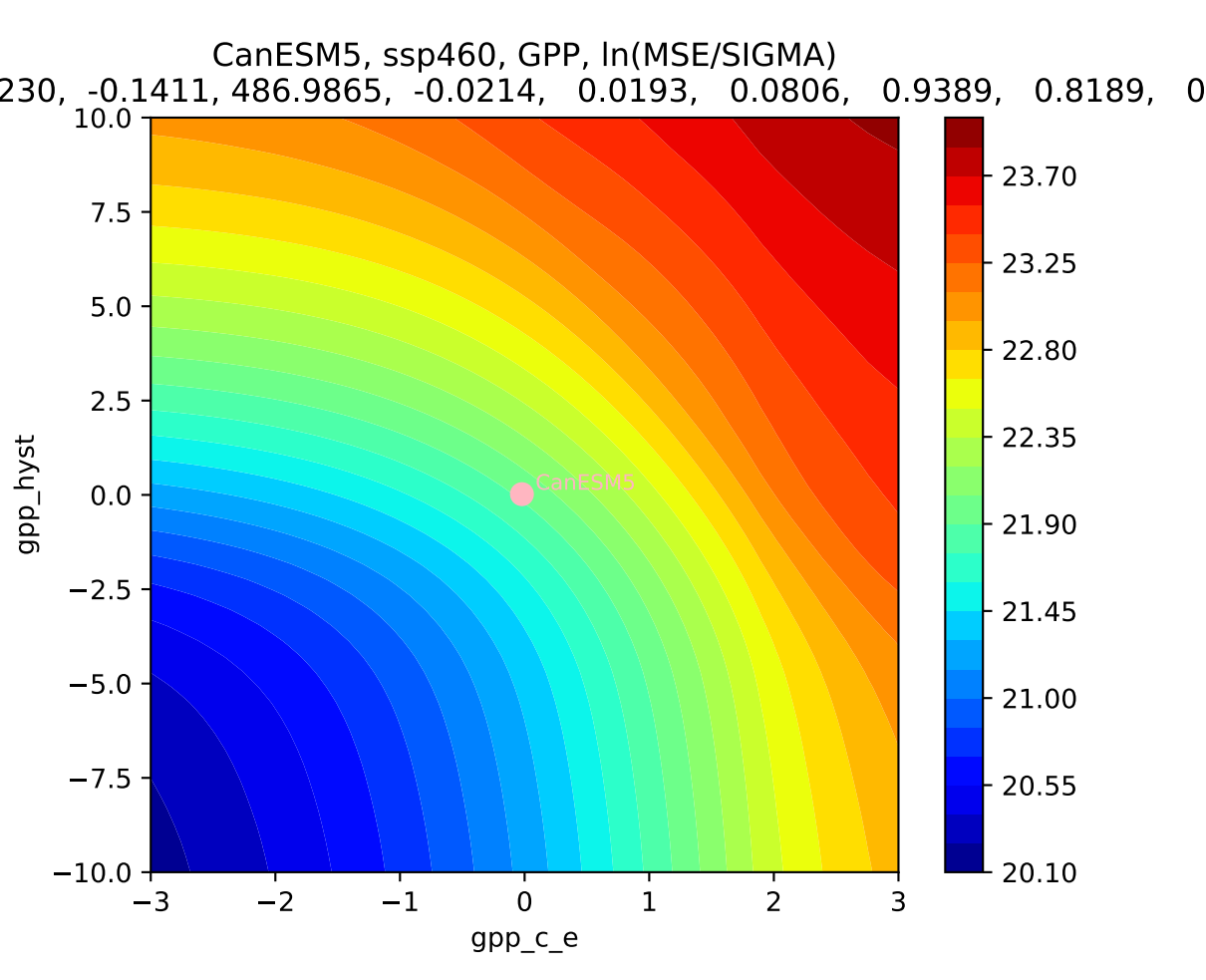

CanESM5, ssp460, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

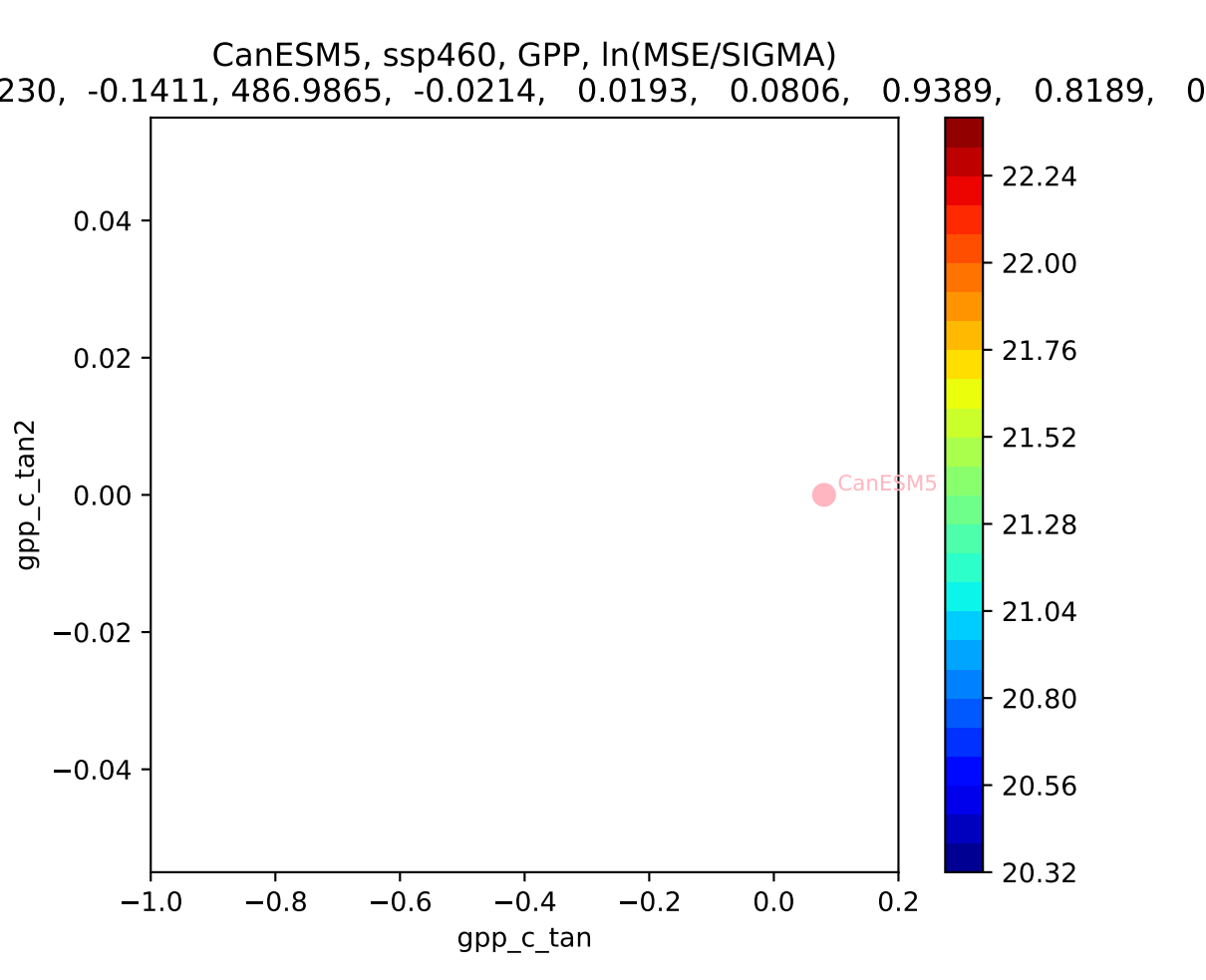

CanESM5, ssp460, GPP
ESM
Fit
GPP
c_atm

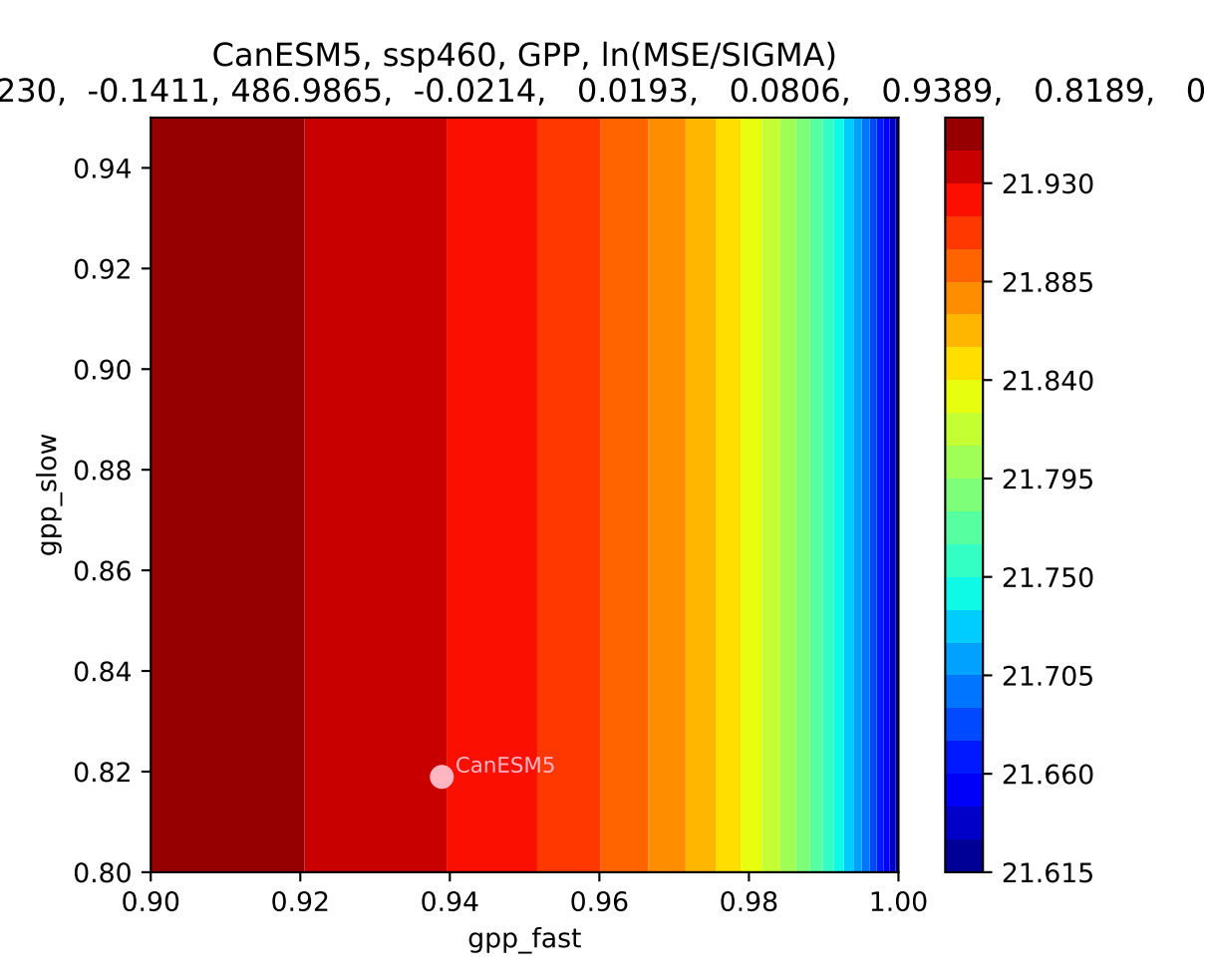

CanESM5, ssp460, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

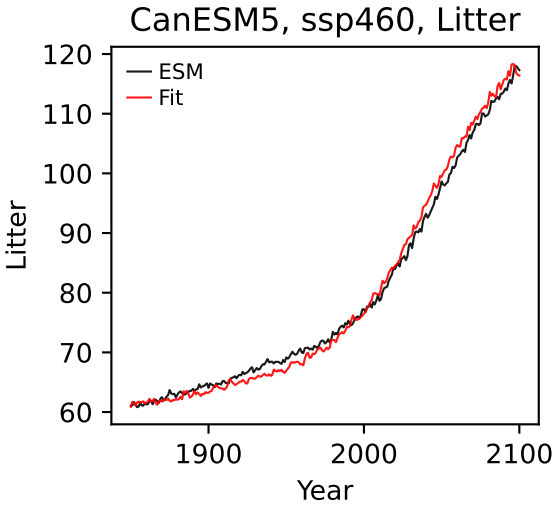

CanESM5, ssp460, GPP, ln(MSE/SIGMA)
230, -0.1411, 486.9865, -0.0214, 0.0193, 0.0806, 0.9389, 0.8189, 0
CanESM5
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
24.0
23.4
22.8
22.2
21.6
21.0
20.4
19.8

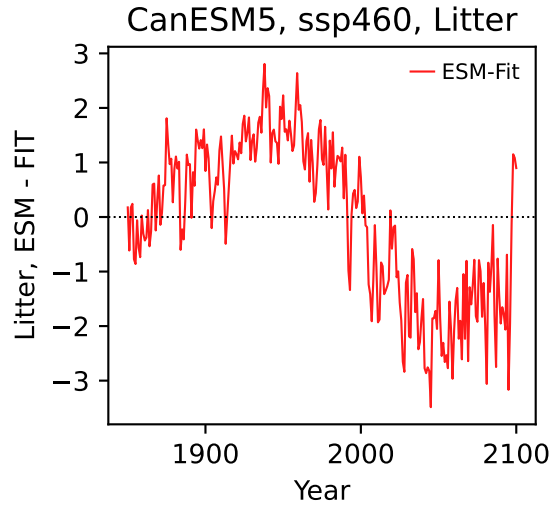

CanESM5, ssp460, GPP, ln(MSE/SIGMA)
230, -0.1411, 486.9865, -0.0214, 0.0193, 0.0806, 0.9389, 0.8189, 0
gpp_c_half
gpp_c_l
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
22.25
22.10
21.95
21.80
21.65
21.50
21.35
21.20
21.05
20.90
CanES

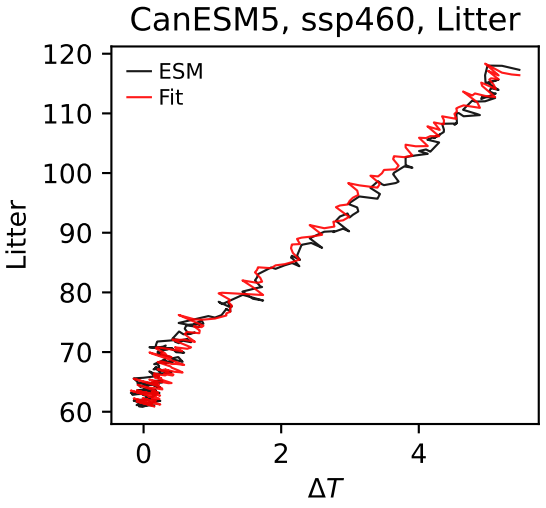

CanESM5, ssp460, GPP, ln(MSE/SIGMA)
230, -0.1411, 486.9865, -0.0214, 0.0193, 0.0806, 0.9389, 0.8189, 0
gpp_hyst
gpp_c_e
CanESM5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
23.70
23.25
22.80
22.35
21.90
21.45
21.00
20.55
20.10

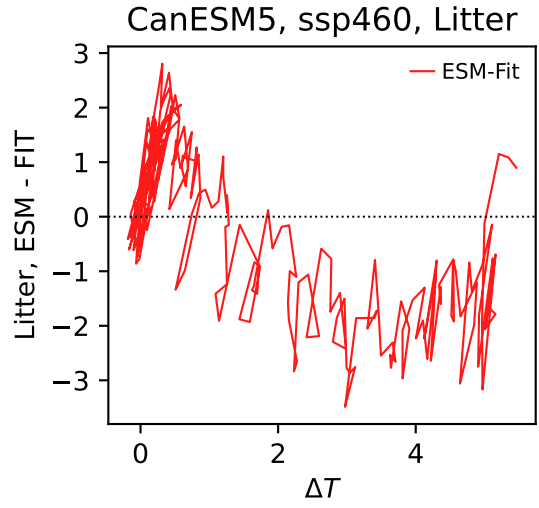

CanESM5, ssp460, GPP, ln(MSE/SIGMA)
230, -0.1411, 486.9865, -0.0214, 0.0193, 0.0806, 0.9389, 0.8189, 0
0.04
0.02
0.00
−0.02
−0.04
gpp_c_tan2
CanESM5
22.24
22.00
21.76
21.52
21.28
21.04
20.80
20.56
20.32
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
gpp_c_tan

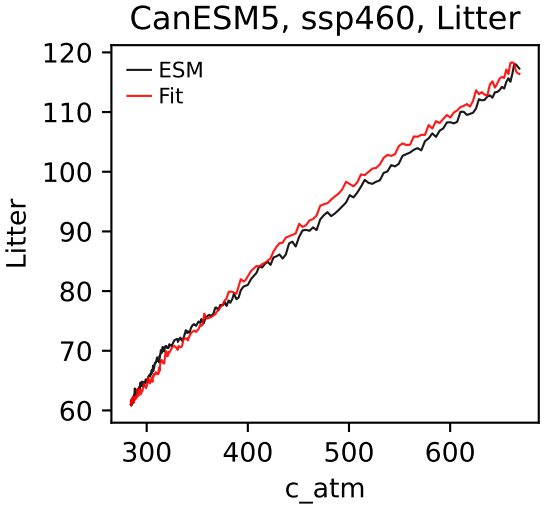

CanESM5, ssp460, GPP, ln(MSE/SIGMA)
230, -0.1411, 486.9865, -0.0214, 0.0193, 0.0806, 0.9389, 0.8189, 0
gpp_slow
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
CanESM5
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast
21.930
21.885
21.840
21.795
21.750
21.705
21.660
21.615

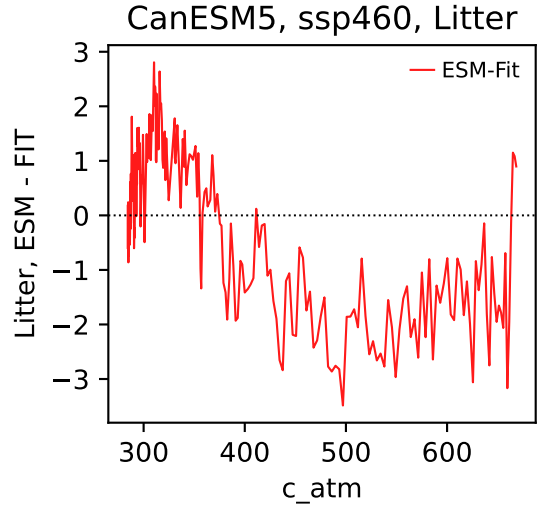

CanESM5, ssp460, Litter
ESM
Fit
Litter
Year

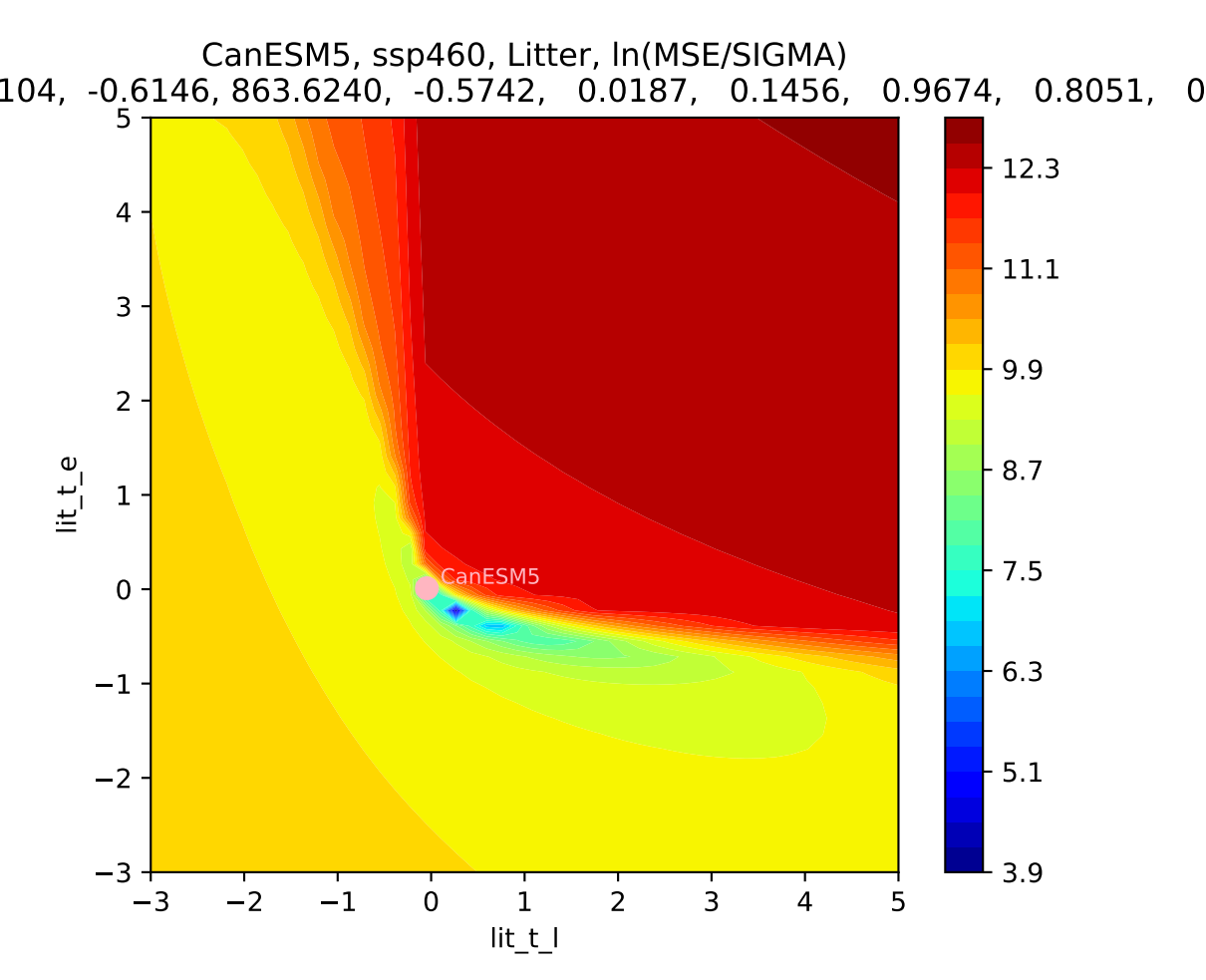

CanESM5, ssp460, Litter
ESM-Fit
Litter, ESM - FIT
Year

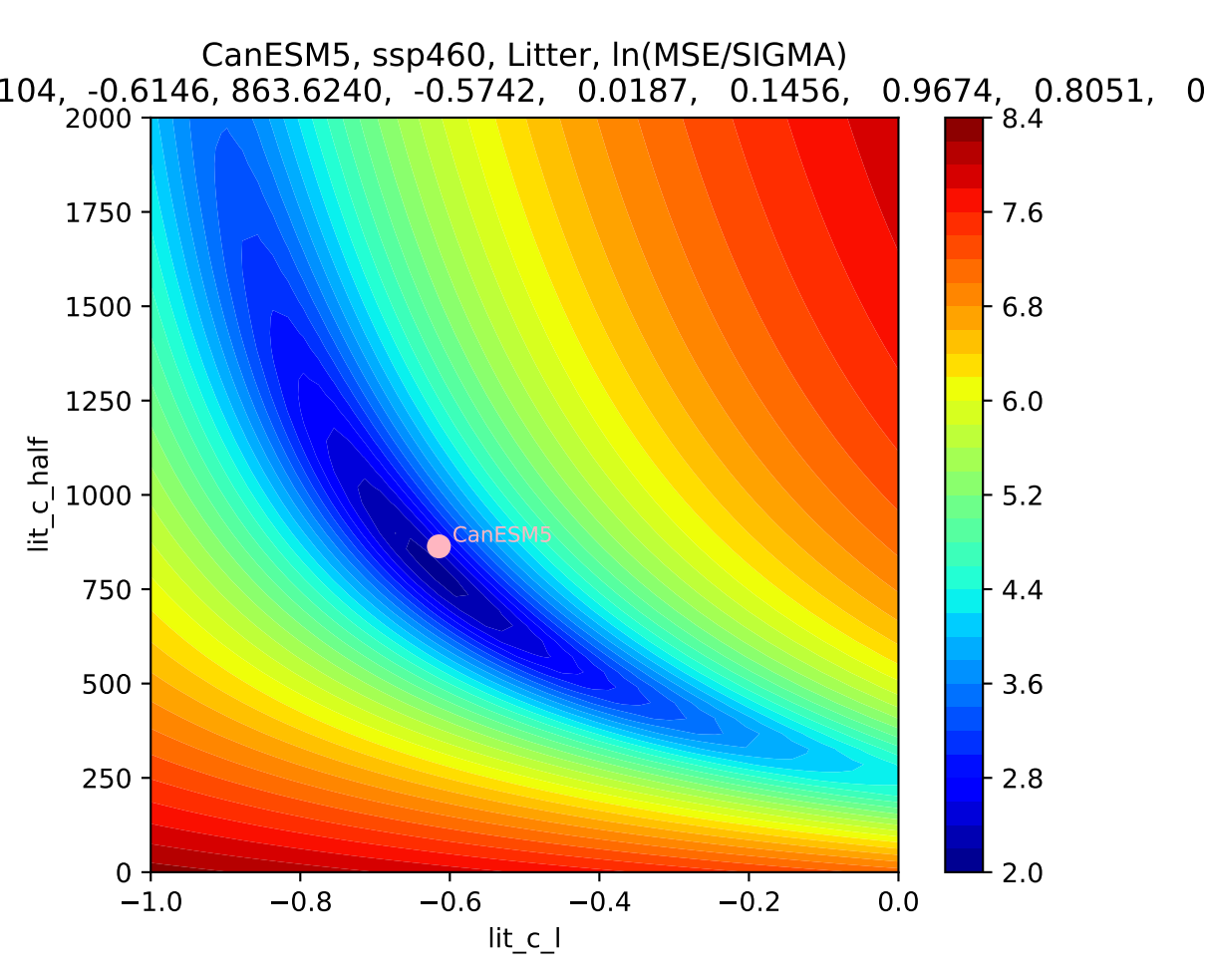

CanESM5, ssp460, Litter
ESM
Fit
Litter
ΔT

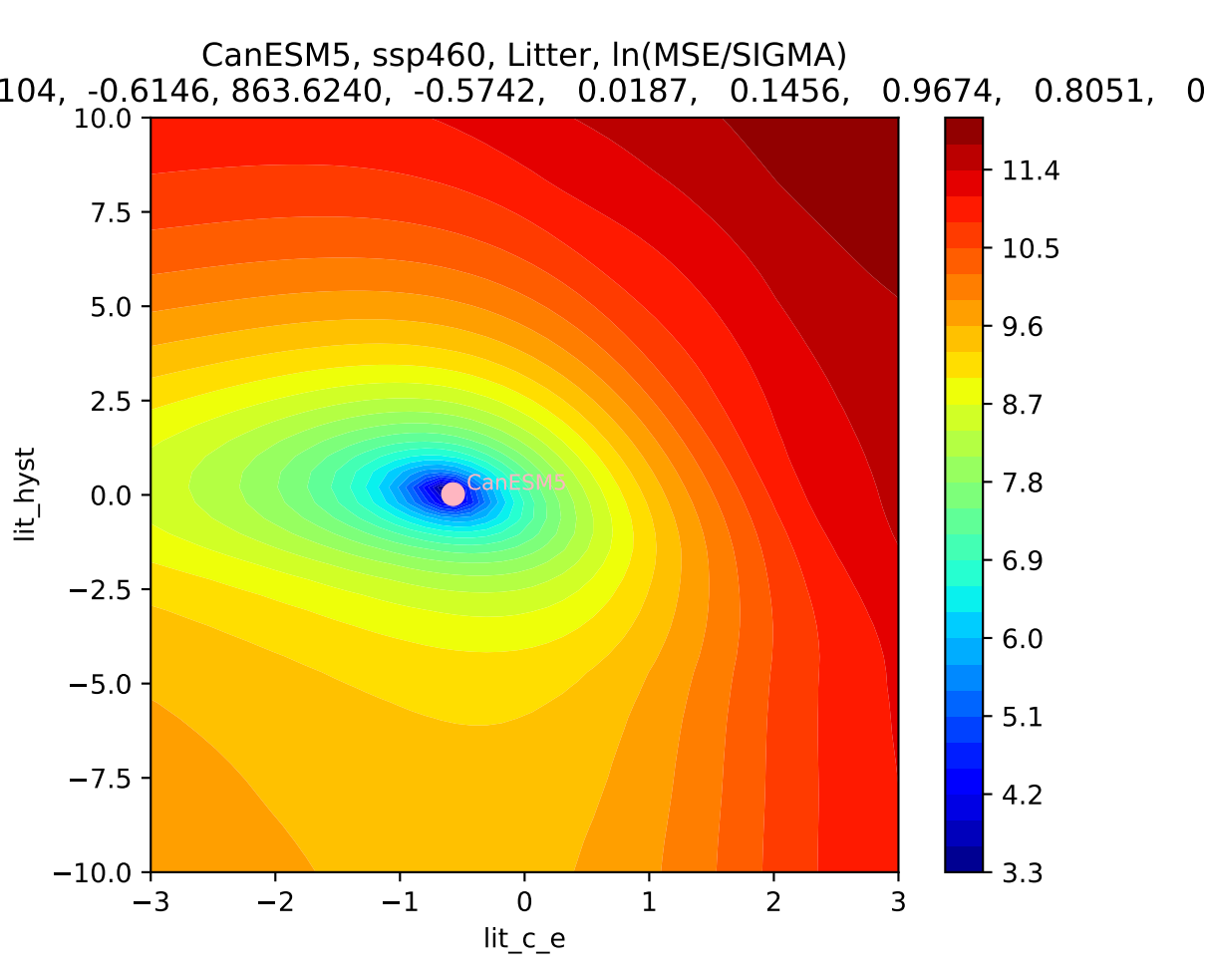

CanESM5, ssp460, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

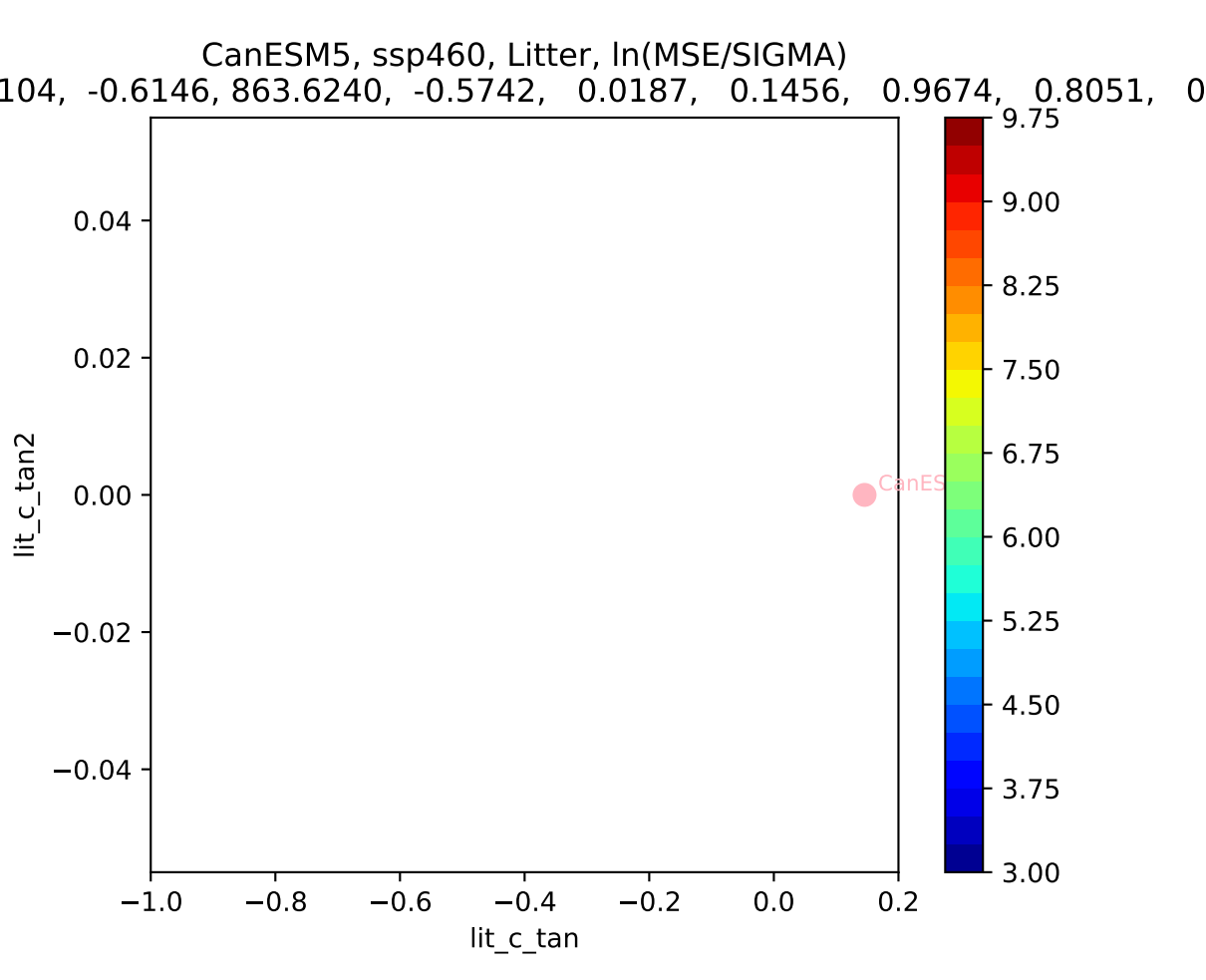

CanESM5, ssp460, Litter
ESM
Fit
Litter
c_atm

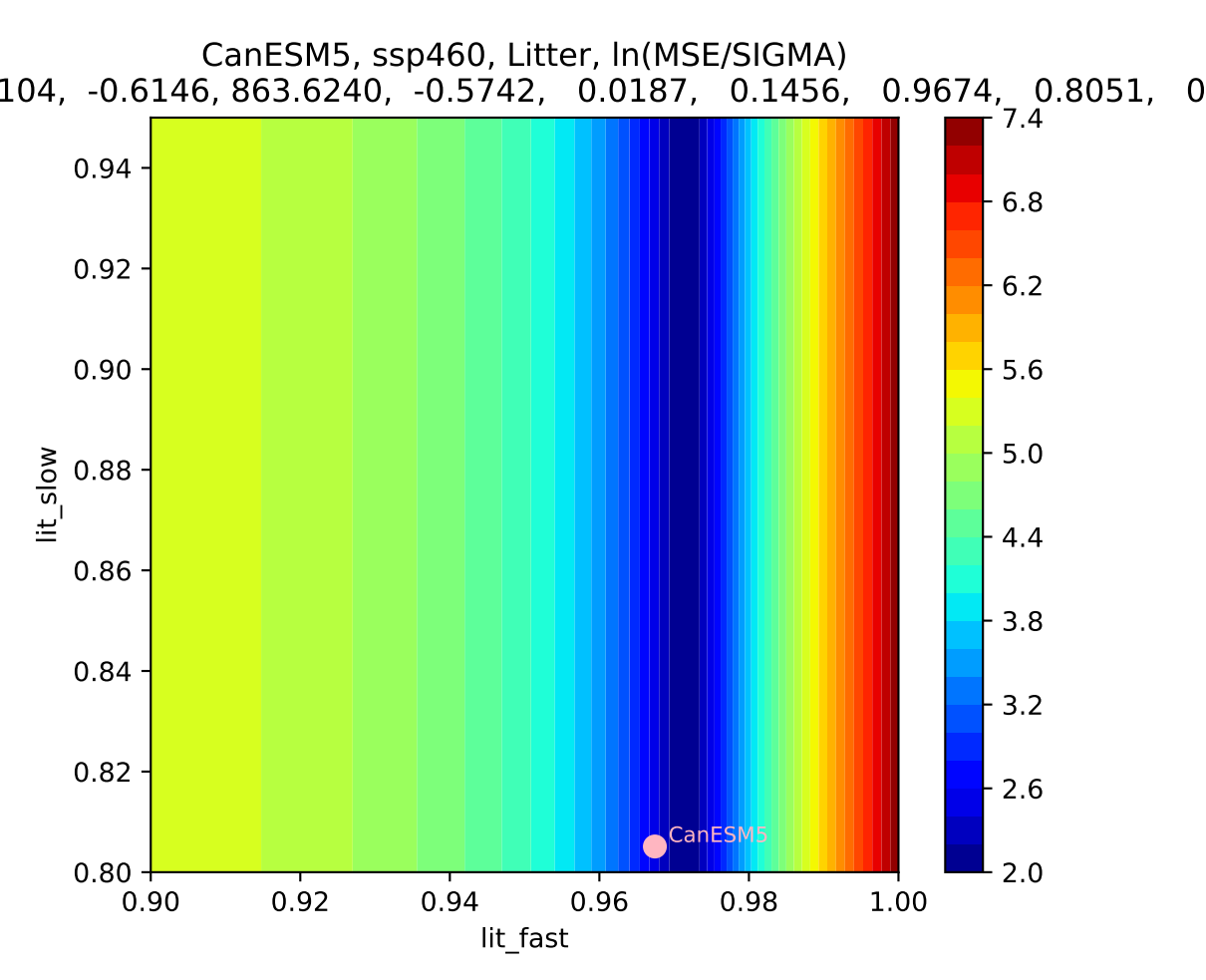

CanESM5, ssp460, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

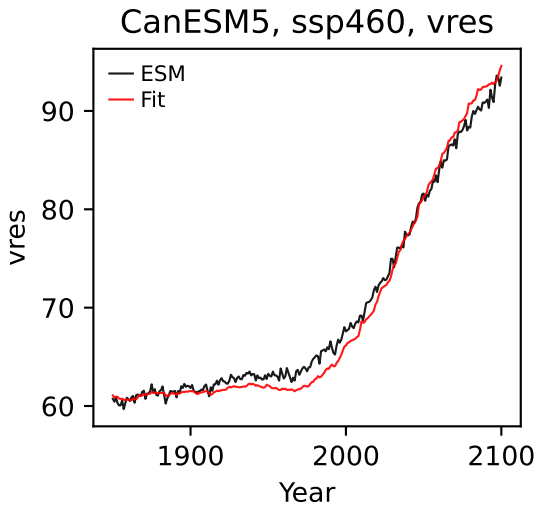

CanESM5, ssp460, Litter, ln(MSE/SIGMA)
104, -0.6146, 863.6240, -0.5742, 0.0187, 0.1456, 0.9674, 0.8051, 0
CanESM5
lit_t_e
lit_t_l
12.3
11.1
9.9
8.7
7.5
6.3
5.1
3.9

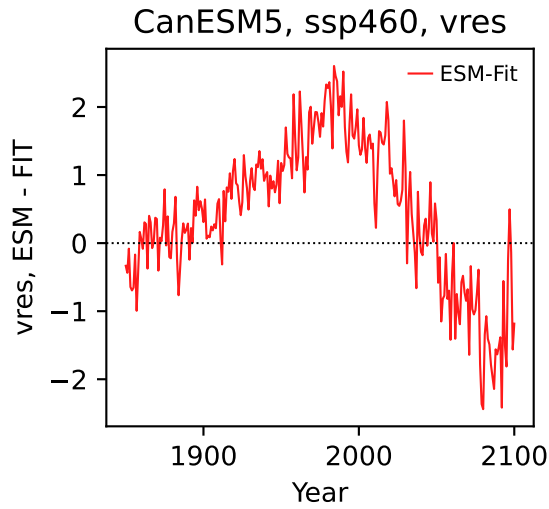

CanESM5, ssp460, Litter, ln(MSE/SIGMA)
104, -0.6146, 863.6240, -0.5742, 0.0187, 0.1456, 0.9674, 0.8051, 0
lit_c_half
lit_c_l
CanESM5
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
8.4
7.6
6.8
6.0
5.2
4.4
3.6
2.8
2.0

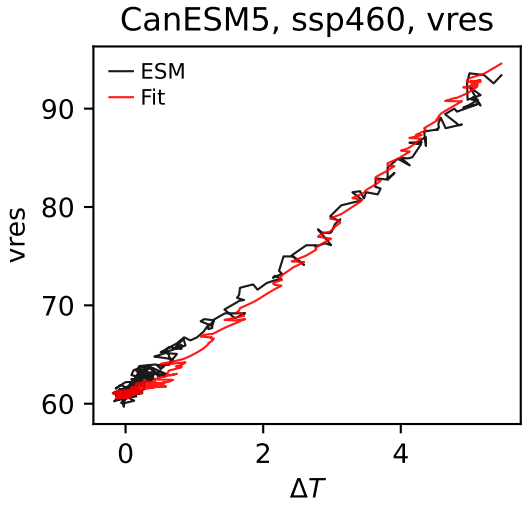

CanESM5, ssp460, Litter, ln(MSE/SIGMA)
104, -0.6146, 863.6240, -0.5742, 0.0187, 0.1456, 0.9674, 0.8051, 0
CanESM5
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
11.4
10.5
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3

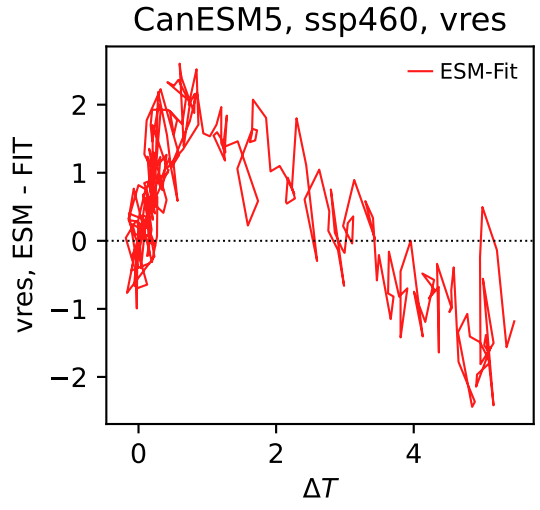

CanESM5, ssp460, Litter, ln(MSE/SIGMA)
104, -0.6146, 863.6240, -0.5742, 0.0187, 0.1456, 0.9674, 0.8051, 0
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
9.75
9.00
8.25
7.50
6.75
6.00
5.25
4.50
3.75
3.00

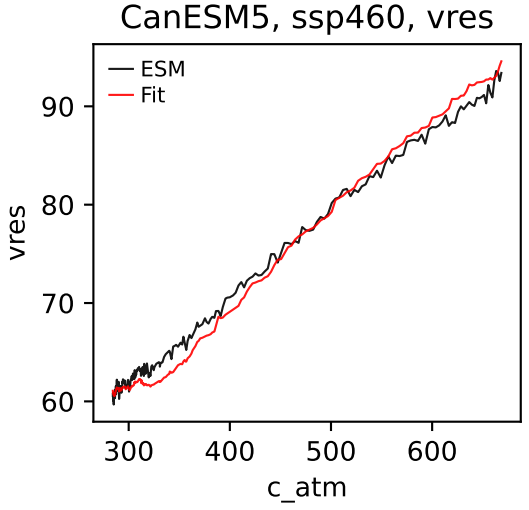

CanESM5, ssp460, Litter, ln(MSE/SIGMA)
104, -0.6146, 863.6240, -0.5742, 0.0187, 0.1456, 0.9674, 0.8051, 0
lit_slow
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
CanESM5
7.4
6.8
6.2
5.6
5.0
4.4
3.8
3.2
2.6
2.0

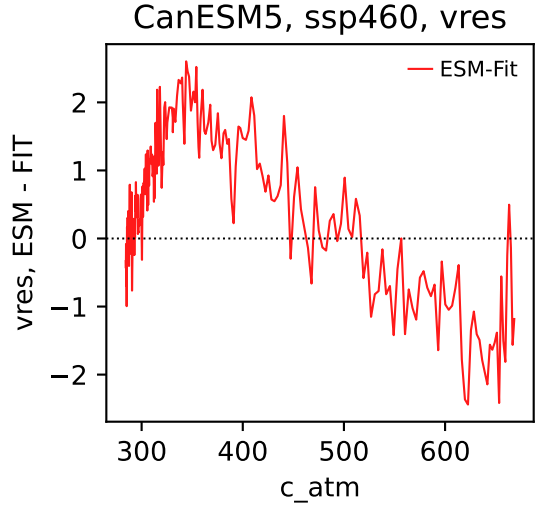

CanESM5, ssp460, vres
ESM
Fit
vres
Year

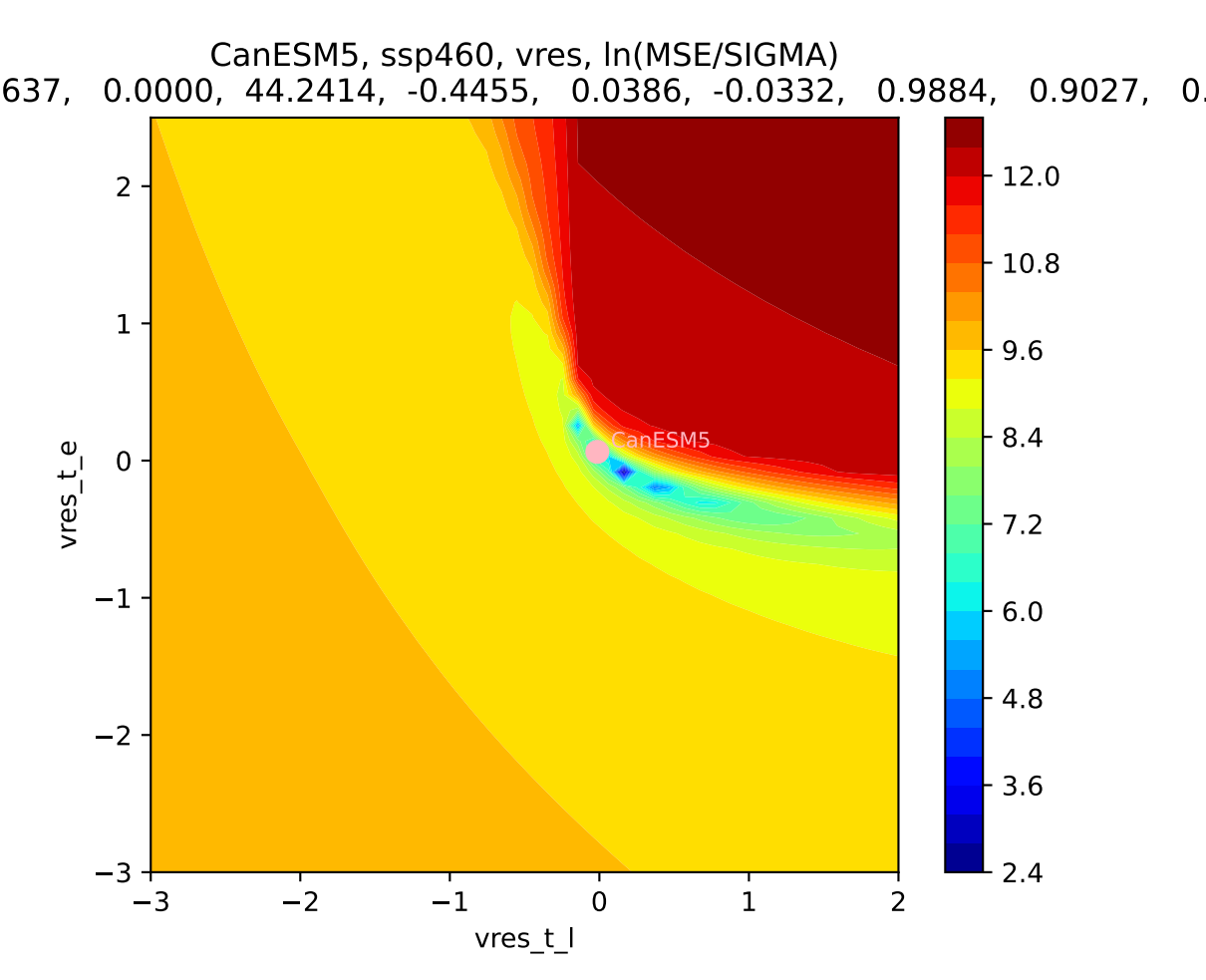

CanESM5, ssp460, vres
ESM-Fit
vres, ESM - FIT
Year

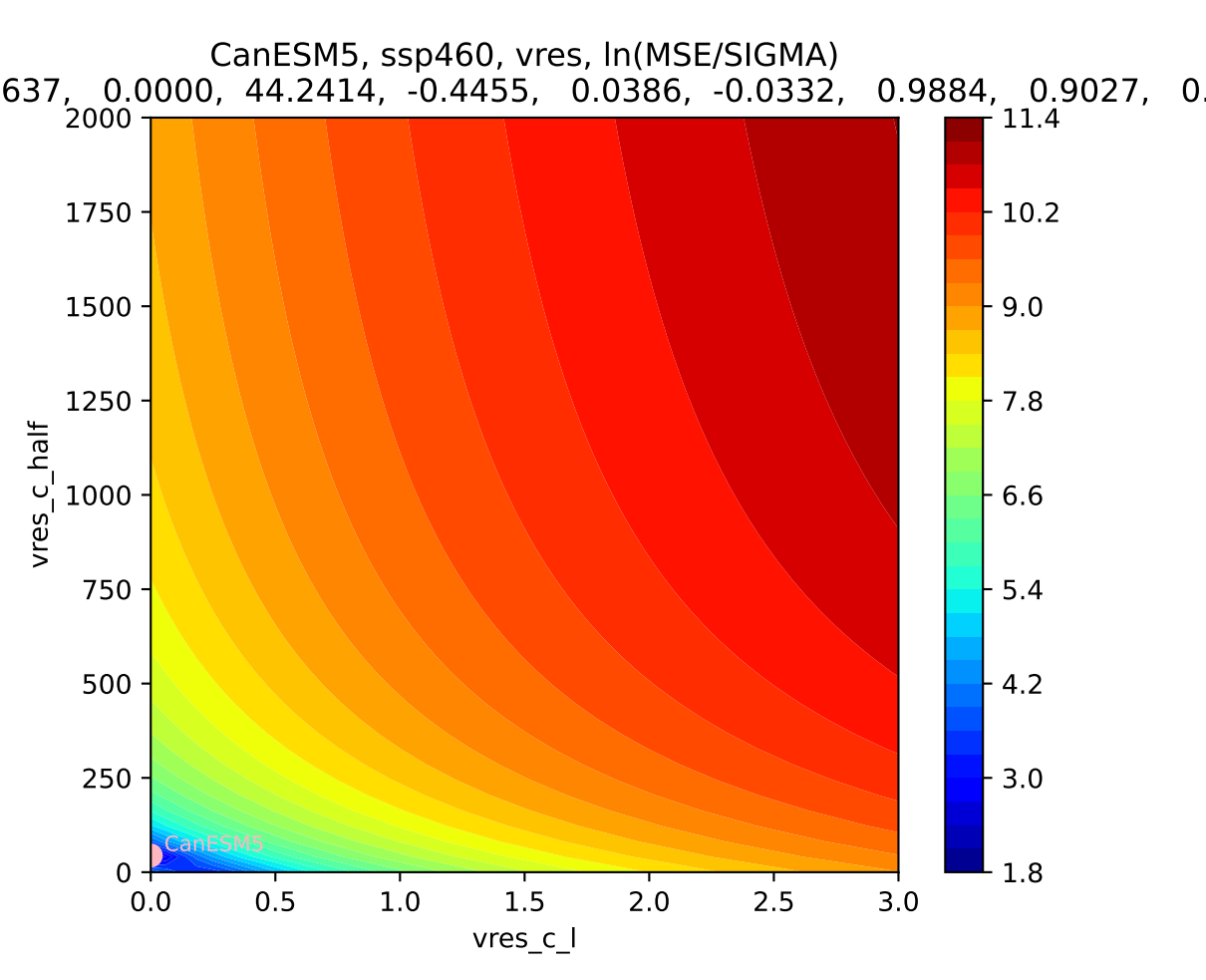

CanESM5, ssp460, vres
ESM
Fit
vres
ΔT

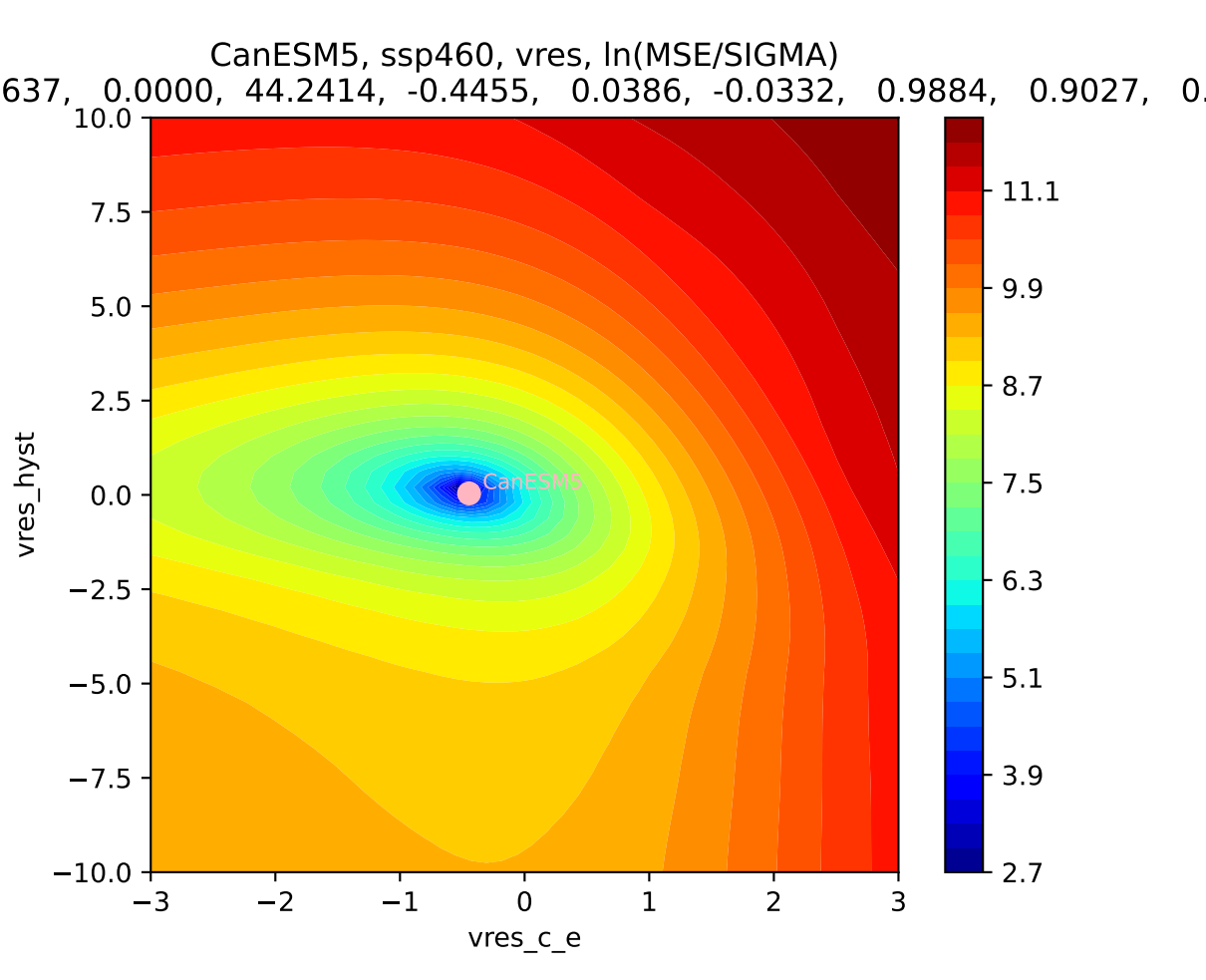

CanESM5, ssp460, vres
ESM-Fit
vres, ESM - FIT
ΔT

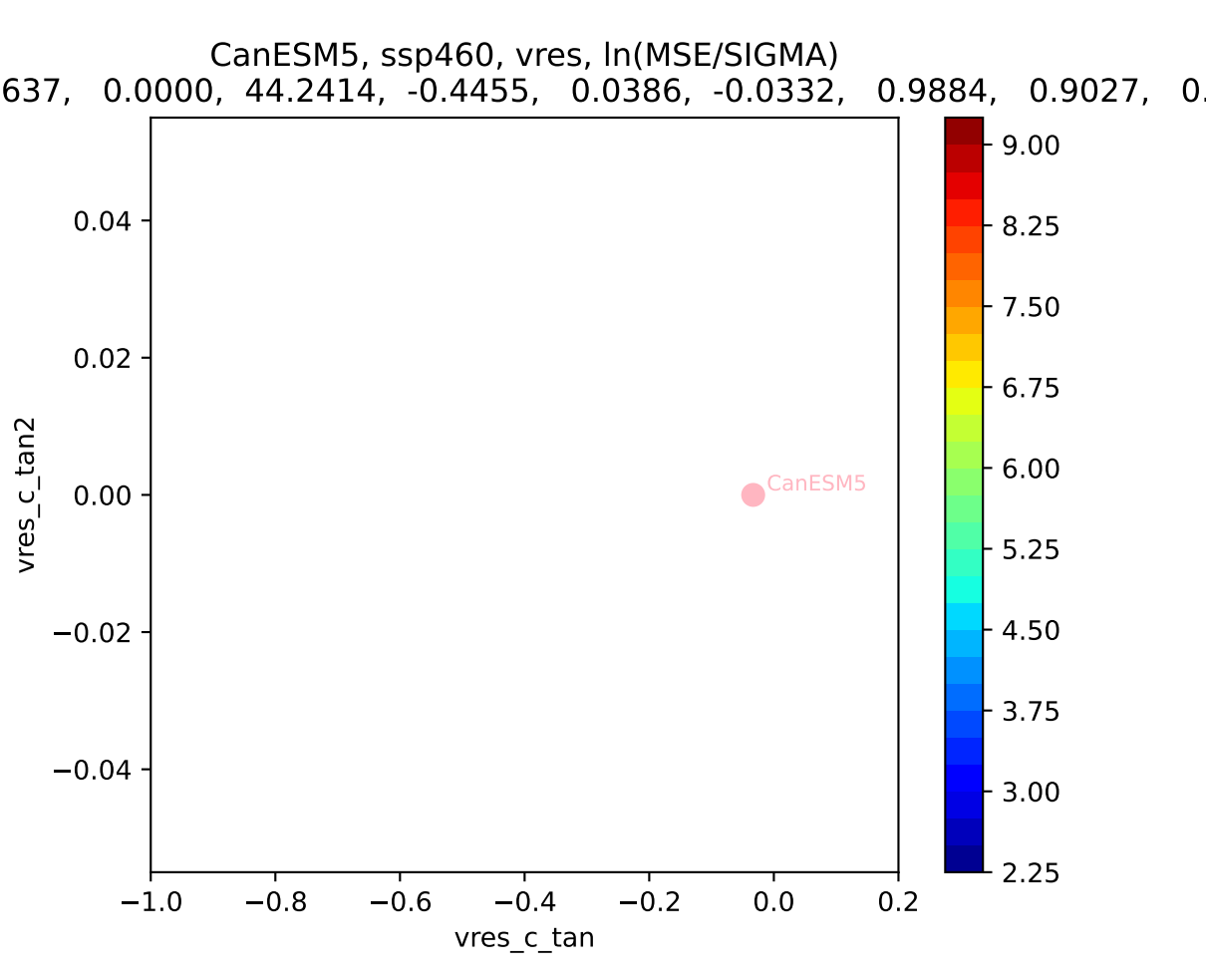

CanESM5, ssp460, vres
ESM
Fit
vres
c_atm

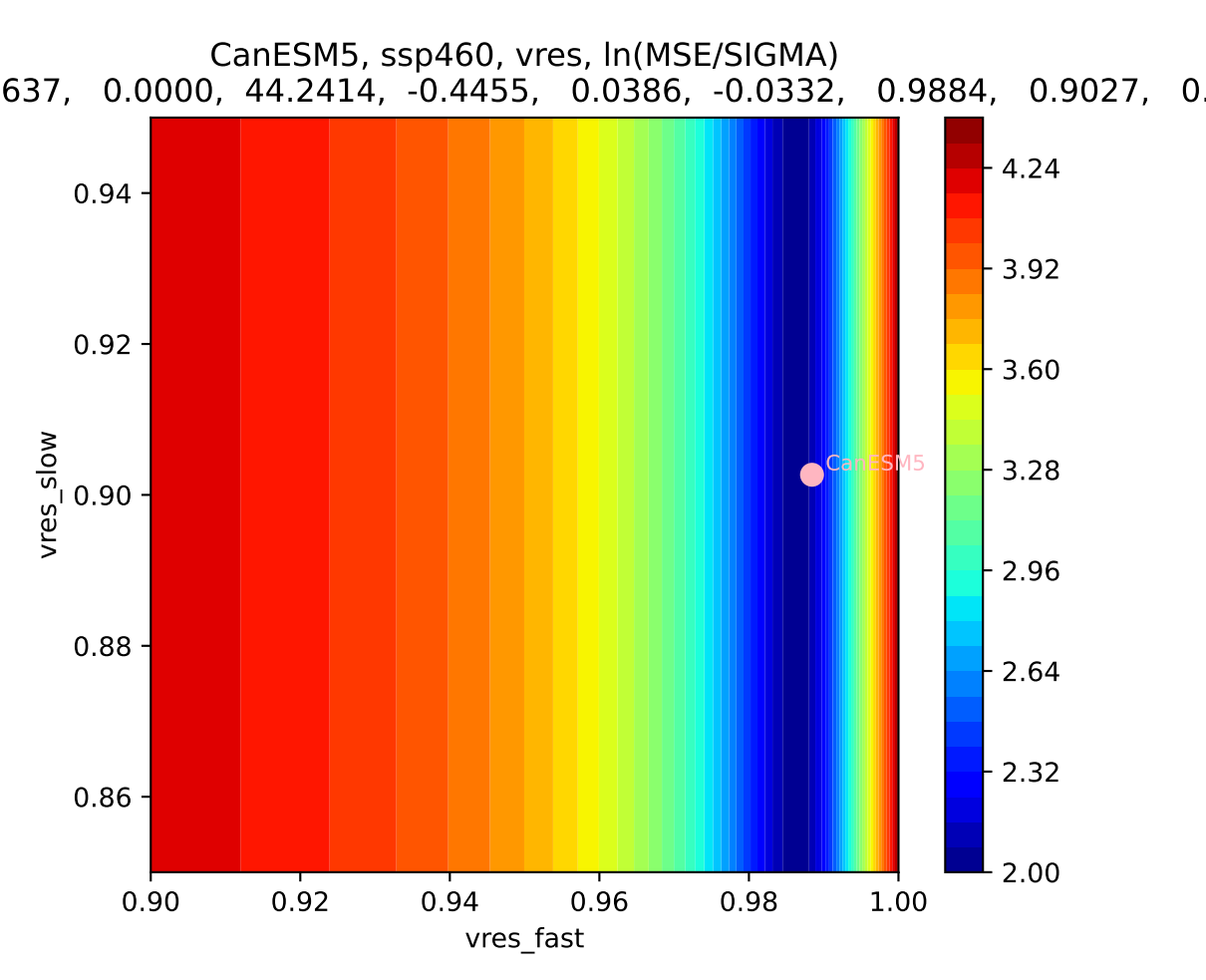

CanESM5, ssp460, vres
ESM-Fit
vres, ESM - FIT
c_atm

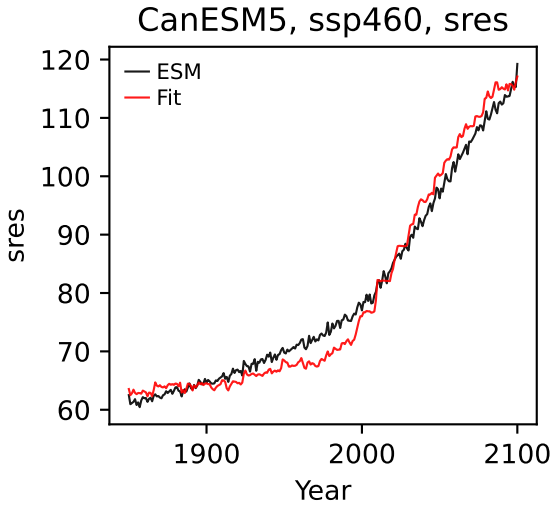

CanESM5, ssp460, vres, ln(MSE/SIGMA)
637, 0.0000, 44.2414, -0.4455, 0.0386, -0.0332, 0.9884, 0.9027, 0.
CanESM5
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
12.0
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4

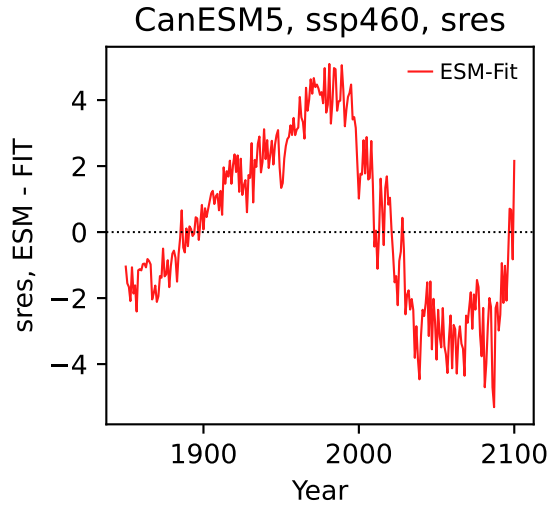

CanESM5, ssp460, vres, ln(MSE/SIGMA)
637, 0.0000, 44.2414, -0.4455, 0.0386, -0.0332, 0.9884, 0.9027, 0.
2000
1750
1500
1250
1000
750
500
250
0
vres_c_half
CanESM5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
vres_c_l
11.4
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8

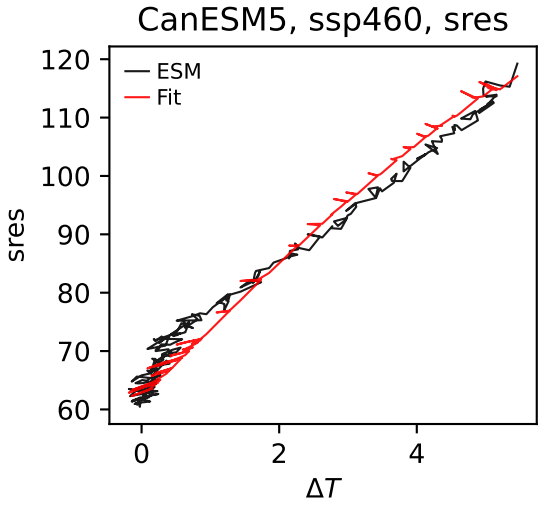

CanESM5, ssp460, vres, ln(MSE/SIGMA)
637, 0.0000, 44.2414, -0.4455, 0.0386, -0.0332, 0.9884, 0.9027, 0.
CanESM5
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
11.1
9.9
8.7
7.5
6.3
5.1
3.9
2.7

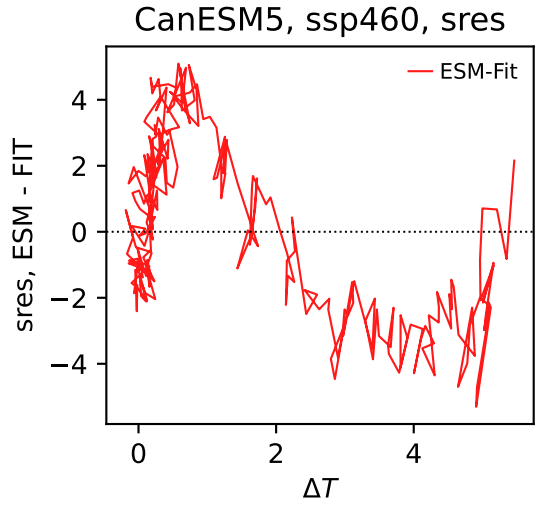

CanESM5, ssp460, vres, ln(MSE/SIGMA)
637, 0.0000, 44.2414, -0.4455, 0.0386, -0.0332, 0.9884, 0.9027, 0.
CanESM5
vres_c_tan2
vres_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
9.00
8.25
7.50
6.75
6.00
5.25
4.50
3.75
3.00
2.25

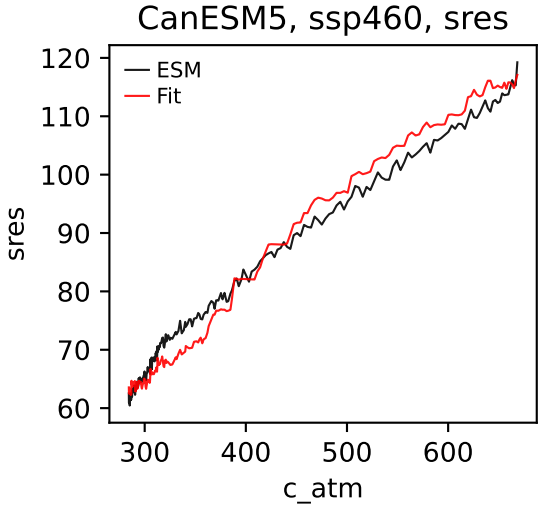

CanESM5, ssp460, vres, ln(MSE/SIGMA)
637, 0.0000, 44.2414, -0.4455, 0.0386, -0.0332, 0.9884, 0.9027, 0.
CanESM5
0.94
0.92
0.90
0.88
0.86
vres_slow
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast
4.24
3.92
3.60
3.28
2.96
2.64
2.32
2.00

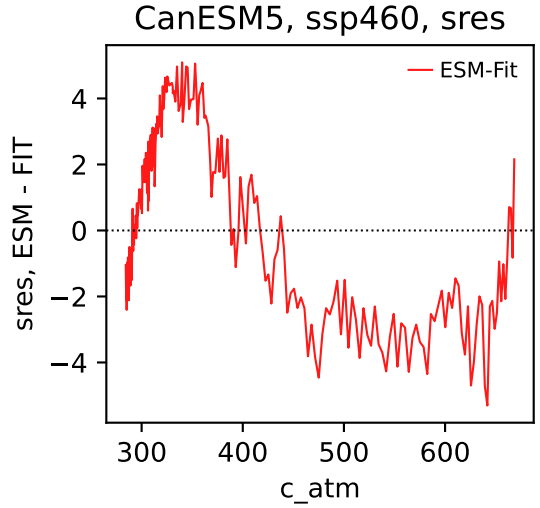

CanESM5, ssp460, sres
ESM
Fit
sres
Year

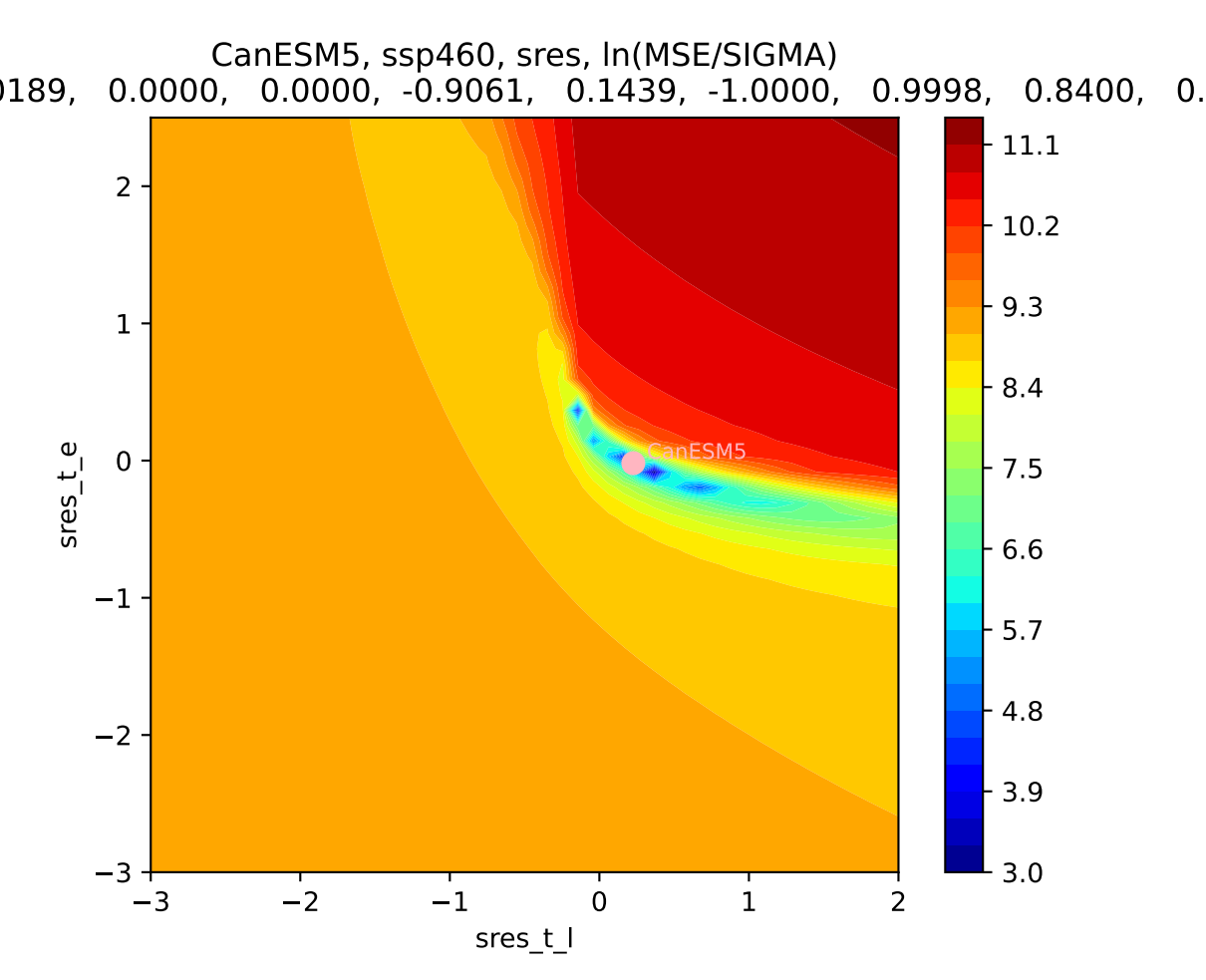

CanESM5, ssp460, sres
ESM-Fit
sres, ESM - FIT
Year

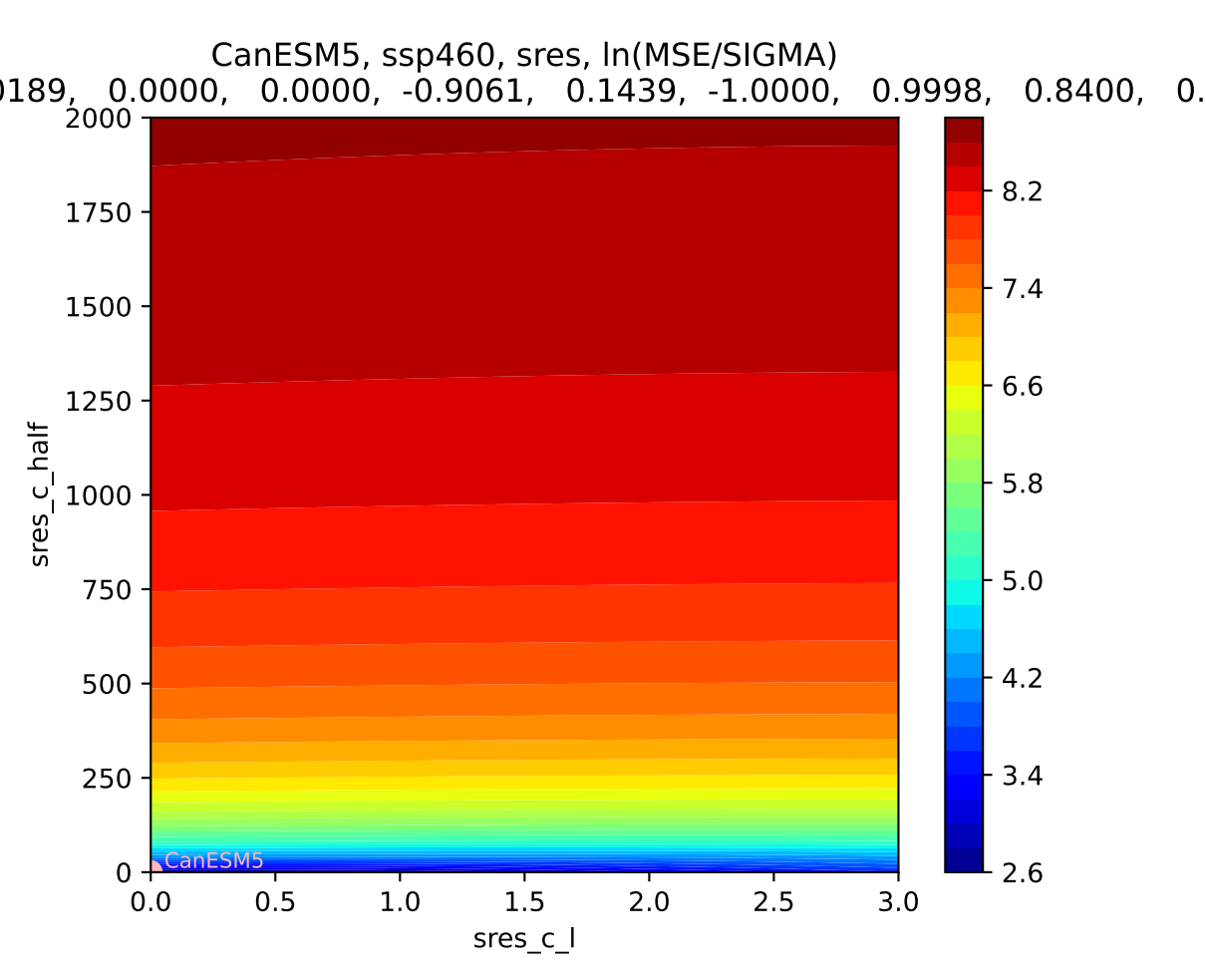

CanESM5, ssp460, sres
ESM
Fit
sres
ΔT

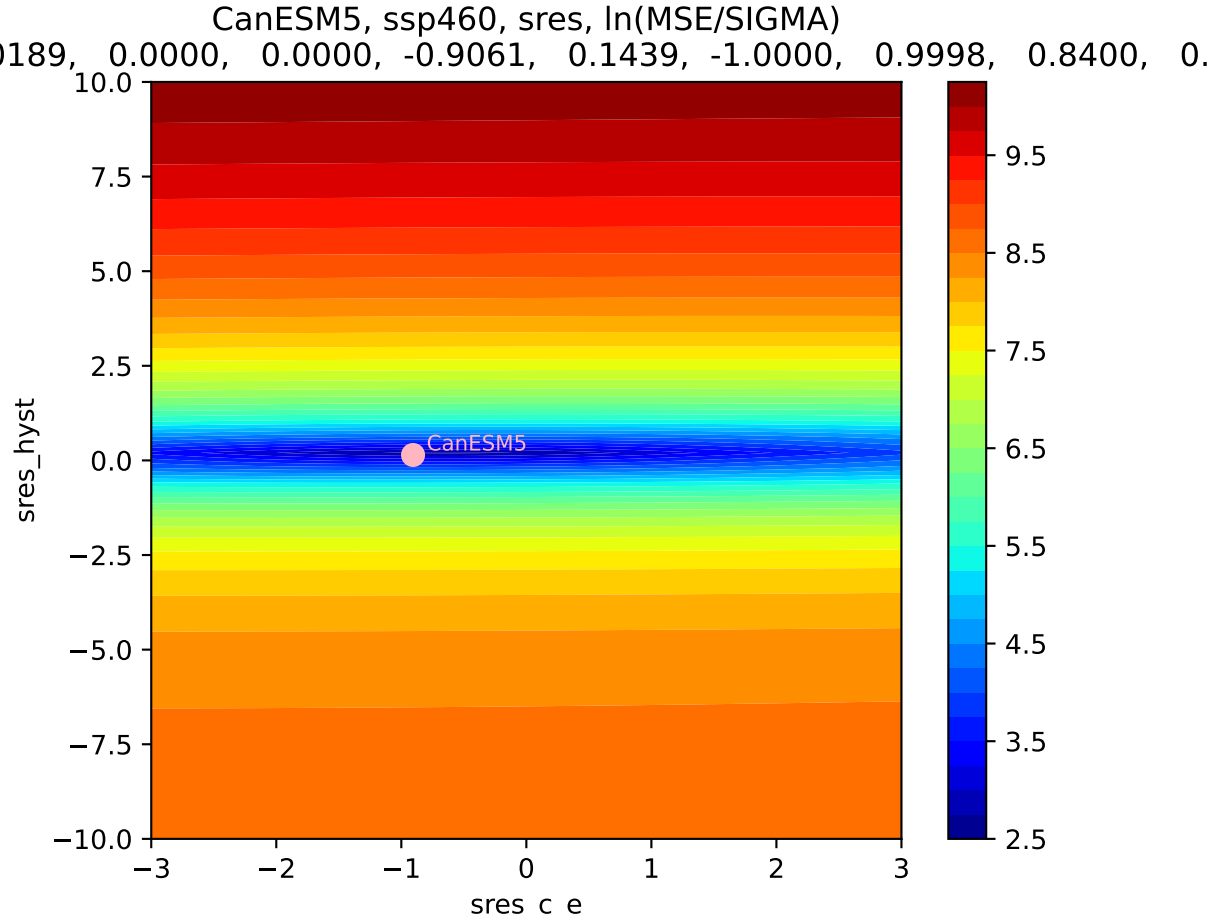

CanESM5, ssp460, sres
ESM-Fit
sres, ESM - FIT
ΔT

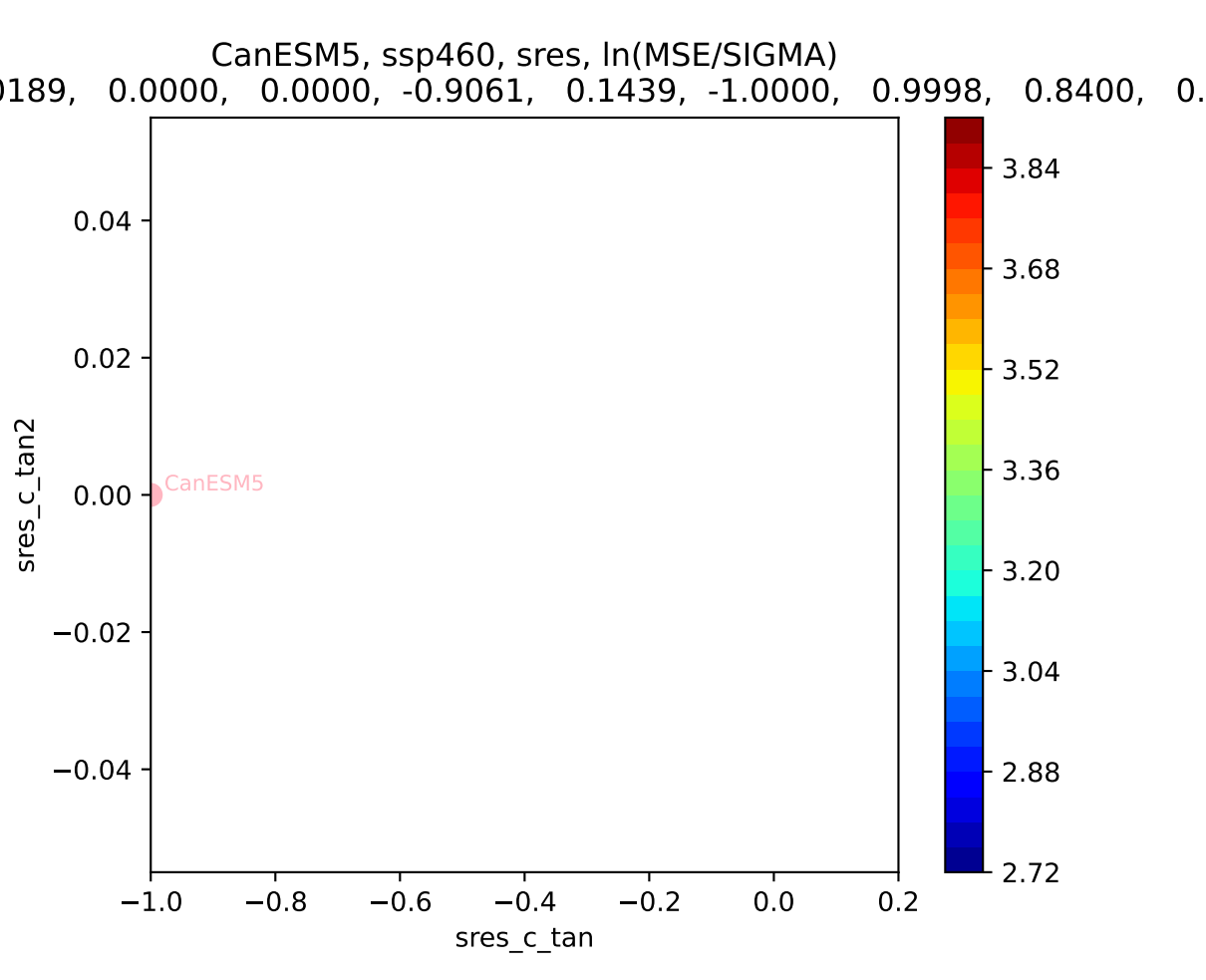

CanESM5, ssp460, sres
ESM
Fit
sres
c_atm

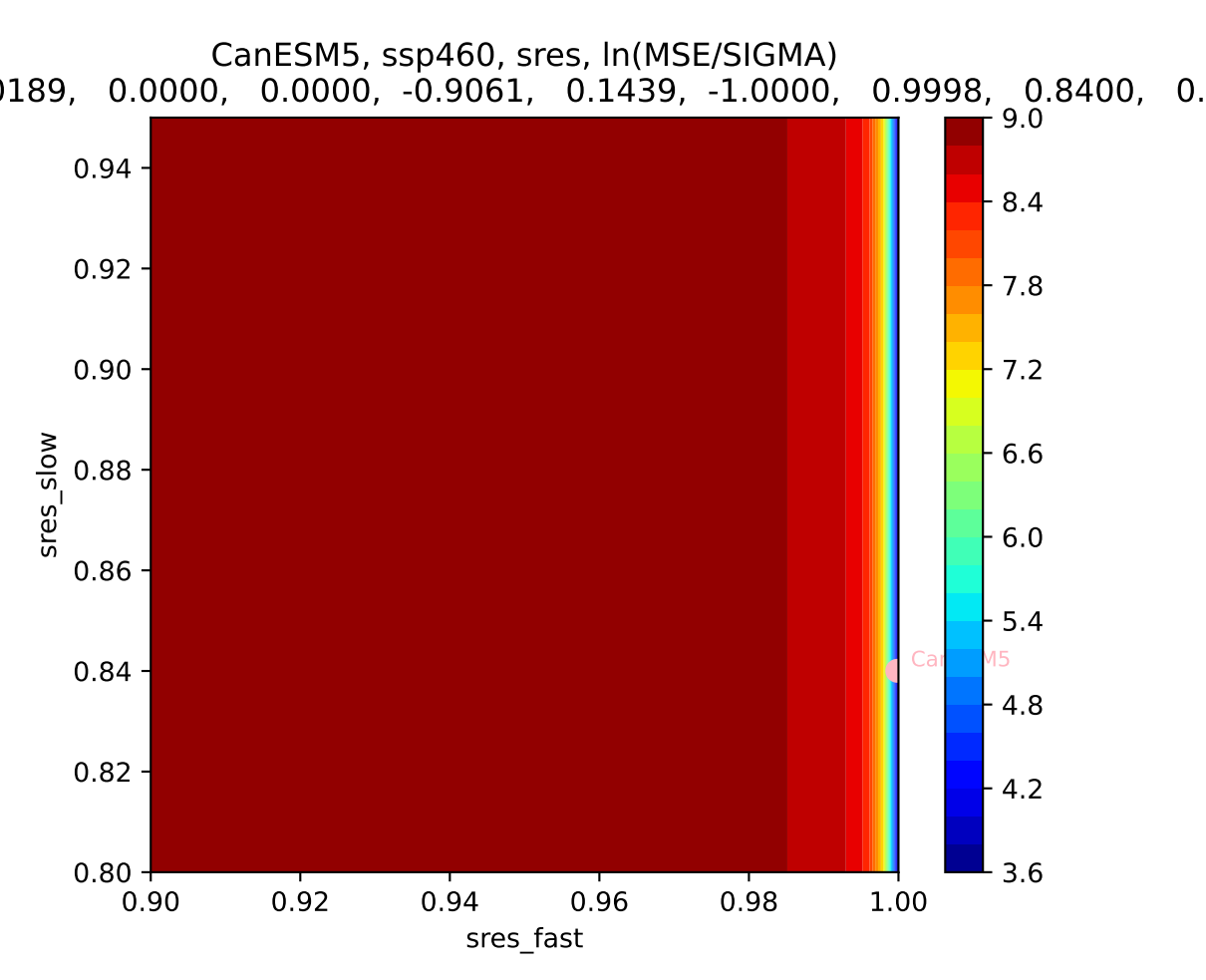

CanESM5, ssp460, sres
ESM-Fit
sres, ESM - FIT
c_atm

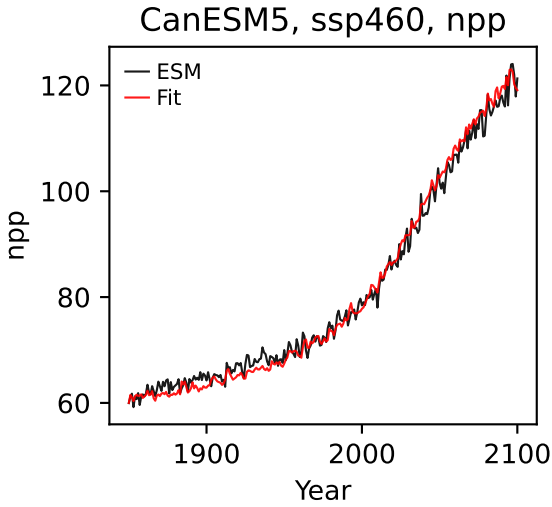

CanESM5, ssp460, sres, ln(MSE/SIGMA)
0189, 0.0000, 0.0000, -0.9061, 0.1439, -1.0000, 0.9998, 0.8400, 0.
CanESM5
sres_t_e
sres_t_l
−3
−2
−1
0
1
2
11.1
10.2
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0

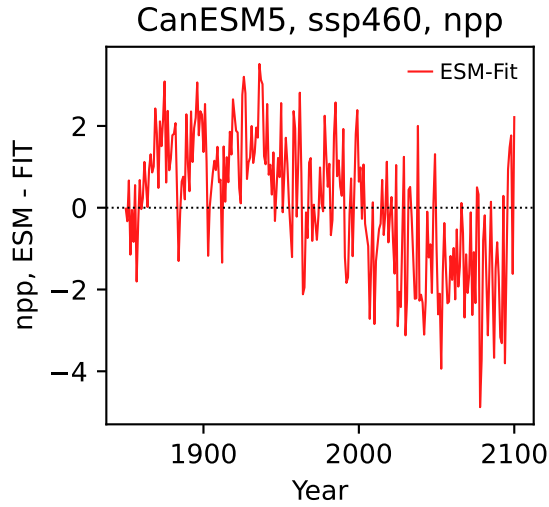

CanESM5, ssp460, sres, ln(MSE/SIGMA)
0189, 0.0000, 0.0000, -0.9061, 0.1439, -1.0000, 0.9998, 0.8400, 0.
2000
1750
1500
1250
1000
750
500
250
0
sres_c_half
CanESM5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
sres_c_l
8.2
7.4
6.6
5.8
5.0
4.2
3.4
2.6

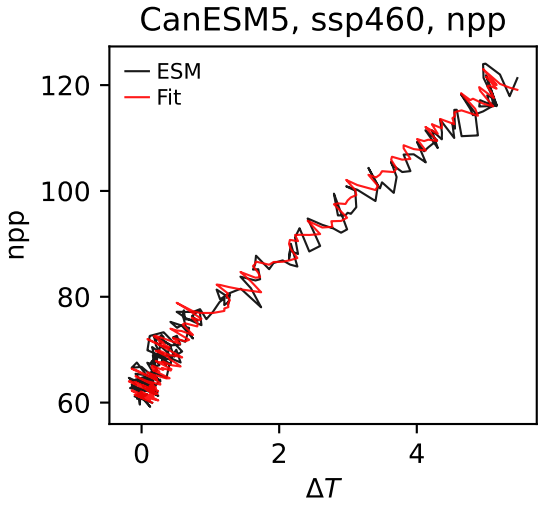

CanESM5, ssp460, sres, ln(MSE/SIGMA)
0189, 0.0000, 0.0000, -0.9061, 0.1439, -1.0000, 0.9998, 0.8400, 0.
CanESM5
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.5
8.5
7.5
6.5
5.5
4.5
3.5
2.5

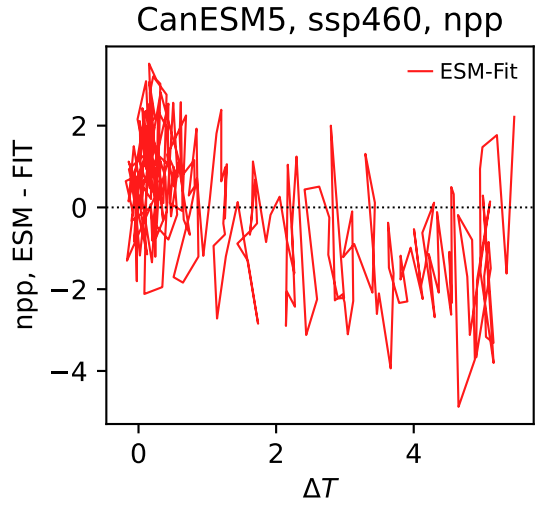

CanESM5, ssp460, sres, ln(MSE/SIGMA)
0189, 0.0000, 0.0000, -0.9061, 0.1439, -1.0000, 0.9998, 0.8400, 0.
0.04
0.02
0.00
−0.02
−0.04
sres_c_tan2
CanESM5
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
sres_c_tan
3.84
3.68
3.52
3.36
3.20
3.04
2.88
2.72

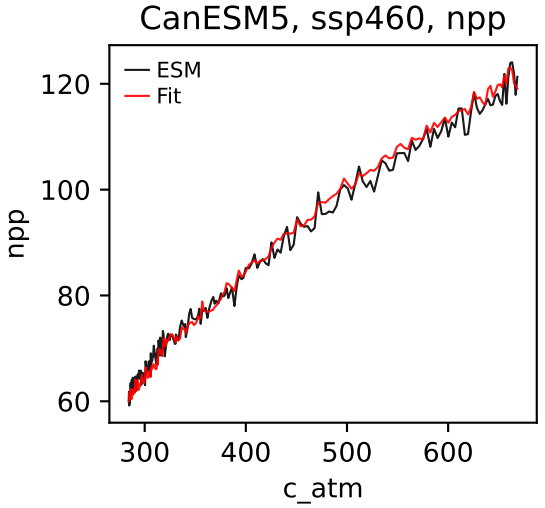

CanESM5, ssp460, sres, ln(MSE/SIGMA)
0189, 0.0000, 0.0000, -0.9061, 0.1439, -1.0000, 0.9998, 0.8400, 0.
sres_slow
sres_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
9.0
8.4
7.8
7.2
6.6
6.0
5.4
4.8
4.2
3.6

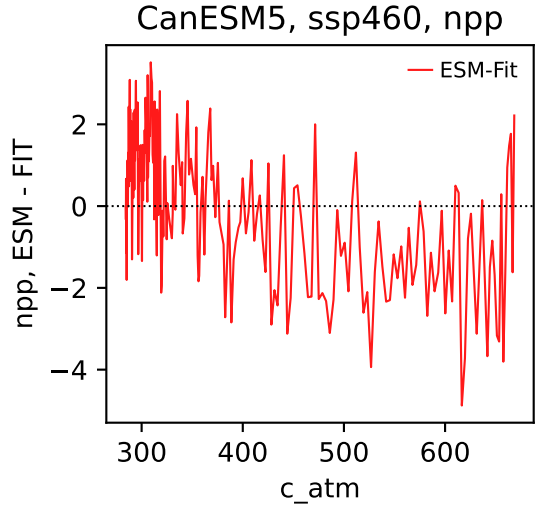

CanESM5, ssp460, npp
ESM
Fit
npp
Year
120
100
80
60
1900
2000
2100

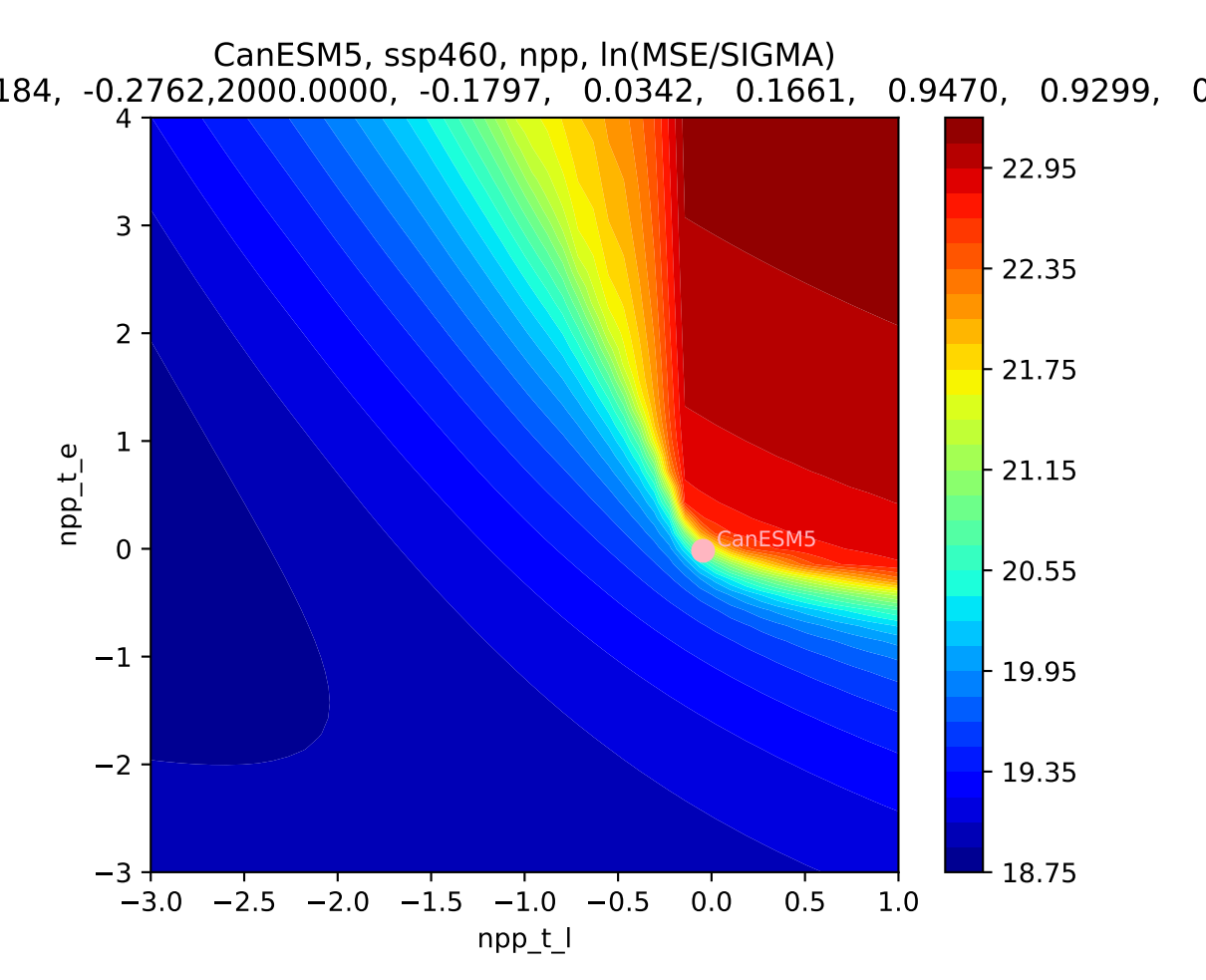

CanESM5, ssp460, npp
ESM-Fit
npp, ESM - FIT
Year
2
0
−2
−4
1900
2000
2100

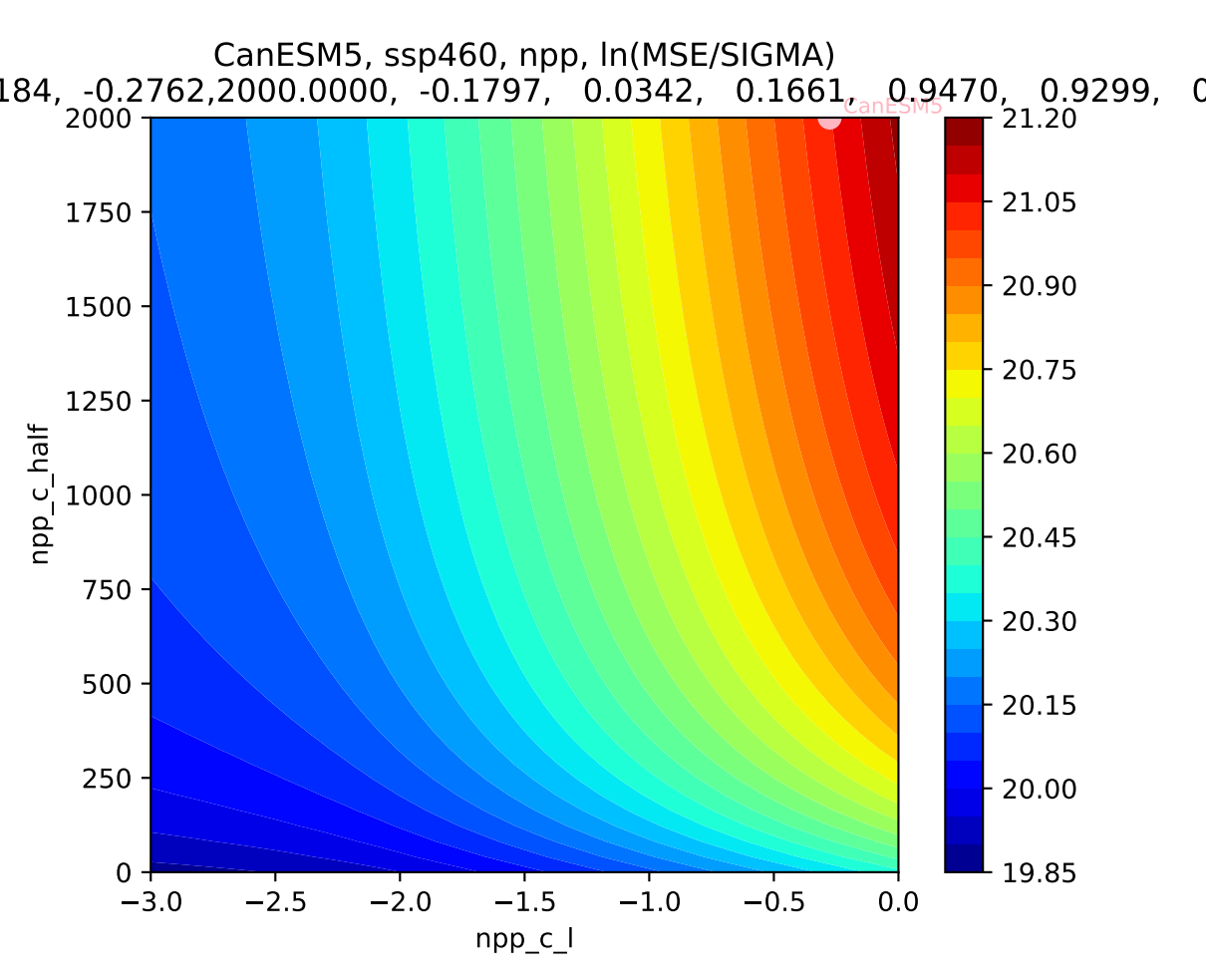

CanESM5, ssp460, npp
ESM
Fit
npp
ΔT
120
100
80
60
0
2
4

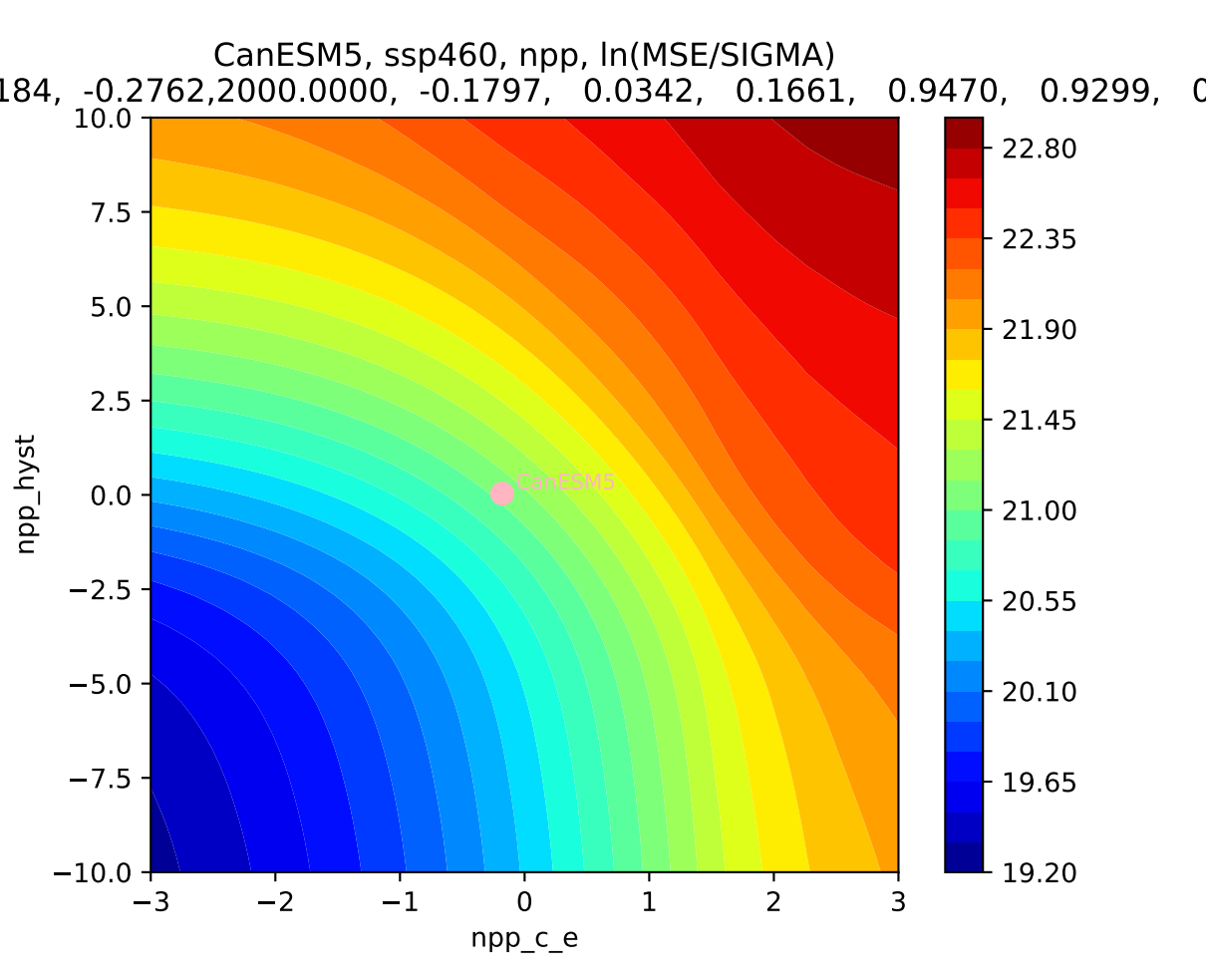

CanESM5, ssp460, npp
ESM-Fit
npp, ESM - FIT
ΔT
2
0
−2
−4
0
2
4

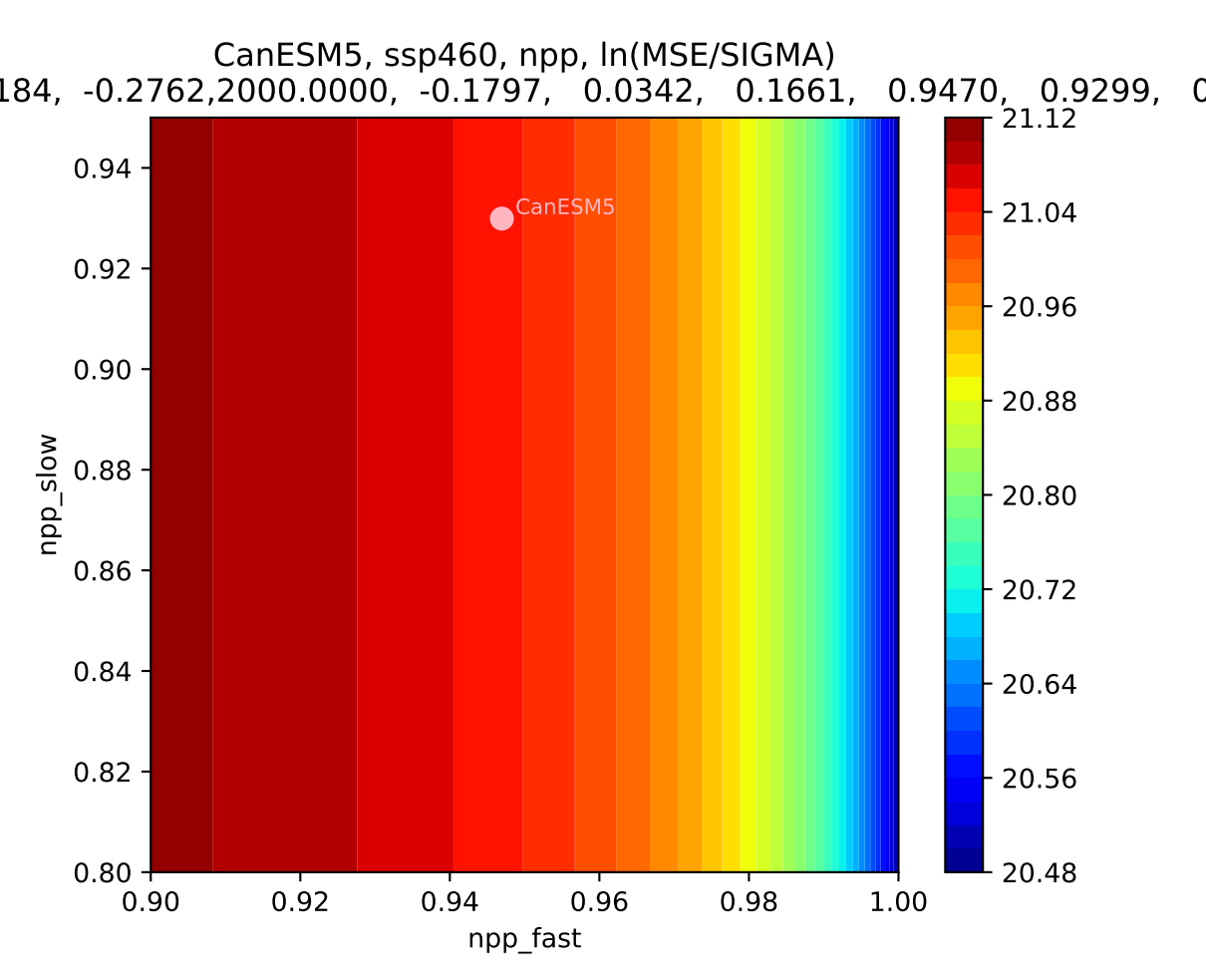

CanESM5, ssp460, npp
ESM
Fit
npp
c_atm
120
100
80
60
300
400
500
600


CanESM5, ssp460, npp
ESM-Fit
npp, ESM - FIT
c_atm
2
0
−2
−4
300
400
500
600


CanESM5, ssp460, npp, ln(MSE/SIGMA)
184, -0.2762,2000.0000, -0.1797, 0.0342, 0.1661, 0.9470, 0.9299, 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, ssp460, npp, ln(MSE/SIGMA)
184, -0.2762,2000.0000, -0.1797, 0.0342, 0.1661, 0.9470, 0.9299, 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
npp_c_l
21.20
21.05
20.90
20.75
20.60
20.45
20.30
20.15
20.00
19.85


CanESM5, ssp460, npp, ln(MSE/SIGMA)
184, -0.2762,2000.0000, -0.1797, 0.0342, 0.1661, 0.9470, 0.9299, 0
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
npp_hyst
−3
−2
−1
0
1
2
3
npp_c_e
CanESM5
22.80
22.35
21.90
21.45
21.00
20.55
20.10
19.65
19.20


CanESM5, ssp460, npp, ln(MSE/SIGMA)
184, -0.2762,2000.0000, -0.1797, 0.0342, 0.1661, 0.9470, 0.9299, 0
CanESM5
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
21.12
21.04
20.96
20.88
20.80
20.72
20.64
20.56
20.48