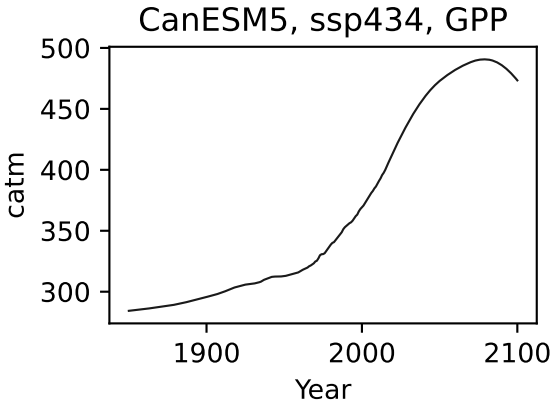
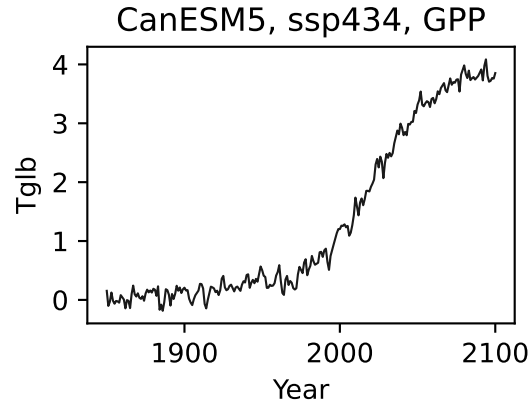
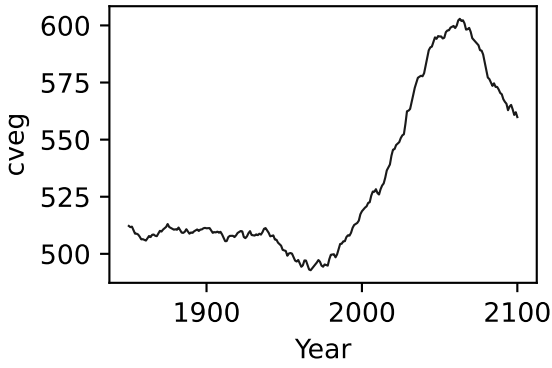
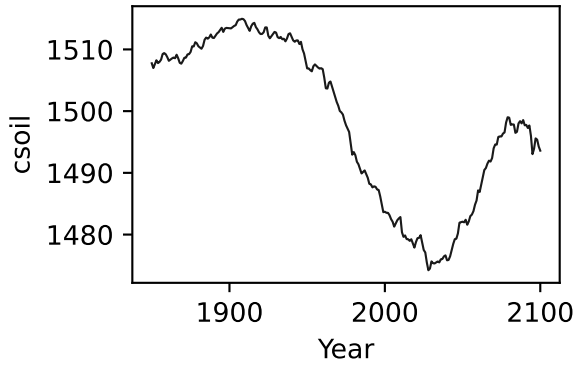
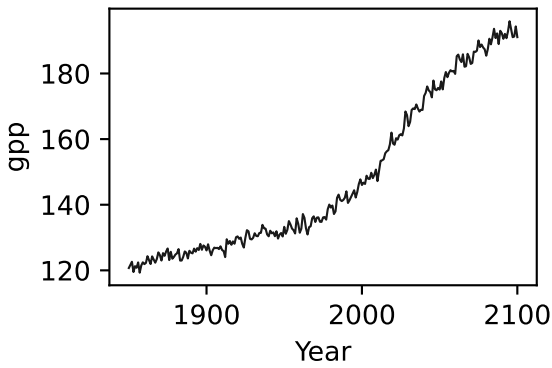
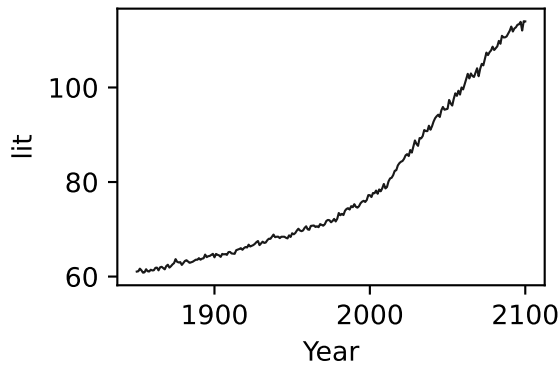

CanESM5, ssp434, GPP
catm
500
450
400
350
300
1900
2000
2100
Year

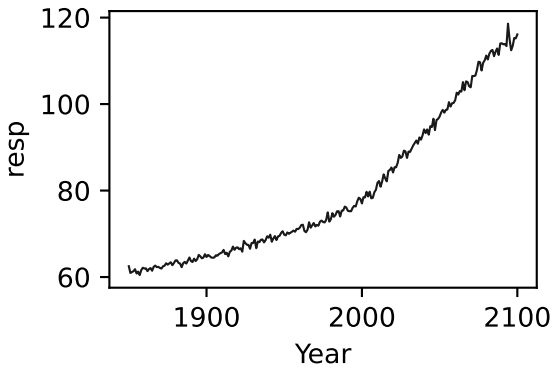

CanESM5, ssp434, GPP
Tglb
4
3
2
1
0
1900
2000
2100
Year

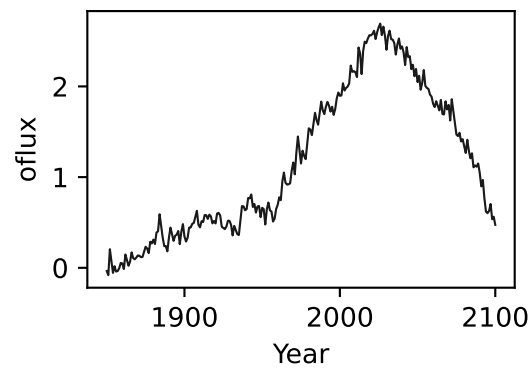

cveg
600
575
550
525
500
1900
2000
2100
Year

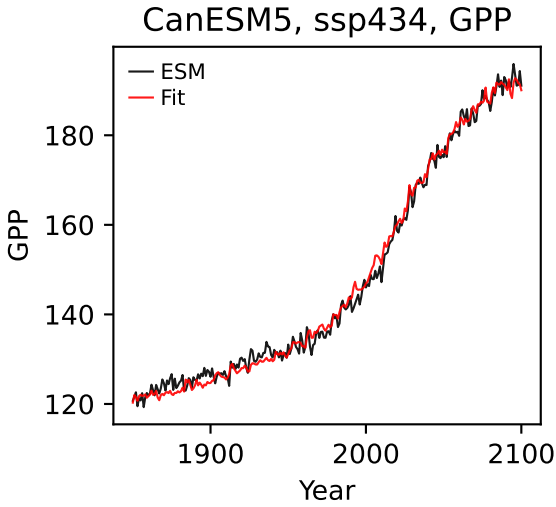

csoil
1510
1500
1490
1480
1900
2000
2100
Year

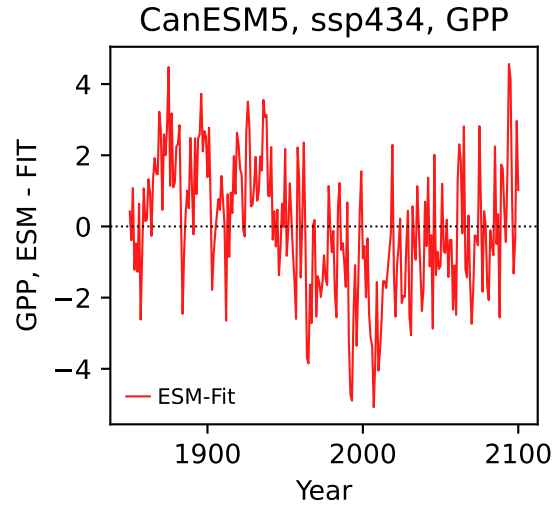

gpp
180
160
140
120
1900
2000
2100
Year

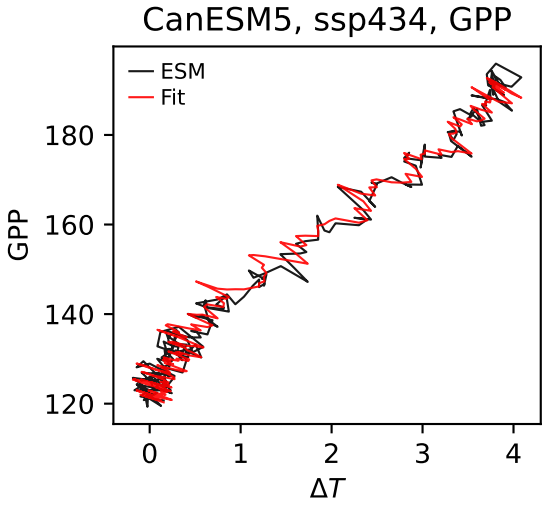

lit
100
80
60
1900
2000
2100
Year

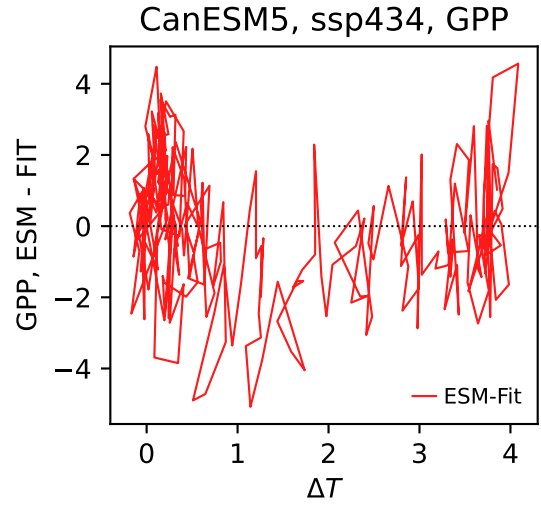

resp
120
100
80
60
1900
2000
2100
Year

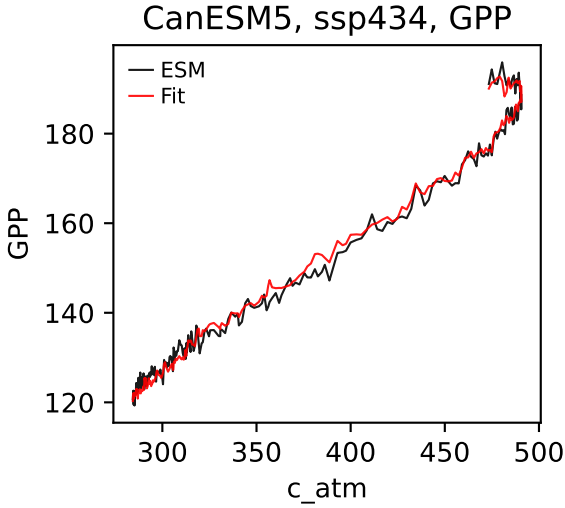

oflux
2
1
0
1900
2000
2100
Year

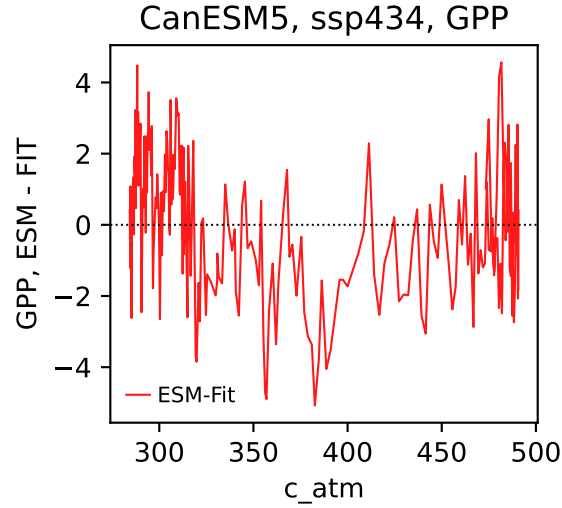

CanESM5, ssp434, GPP
ESM
Fit
GPP
Year

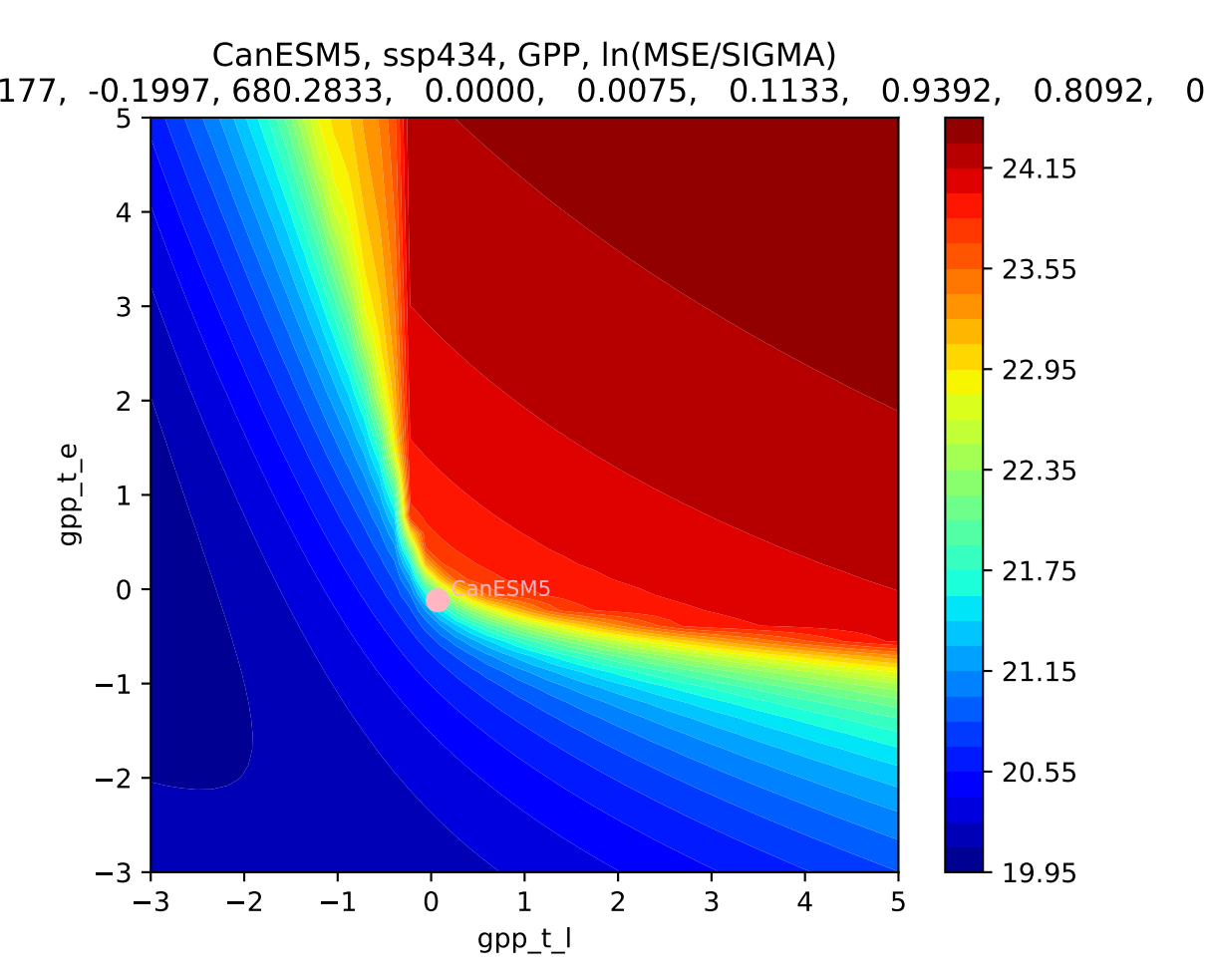

CanESM5, ssp434, GPP
GPP, ESM - FIT
ESM-Fit
Year

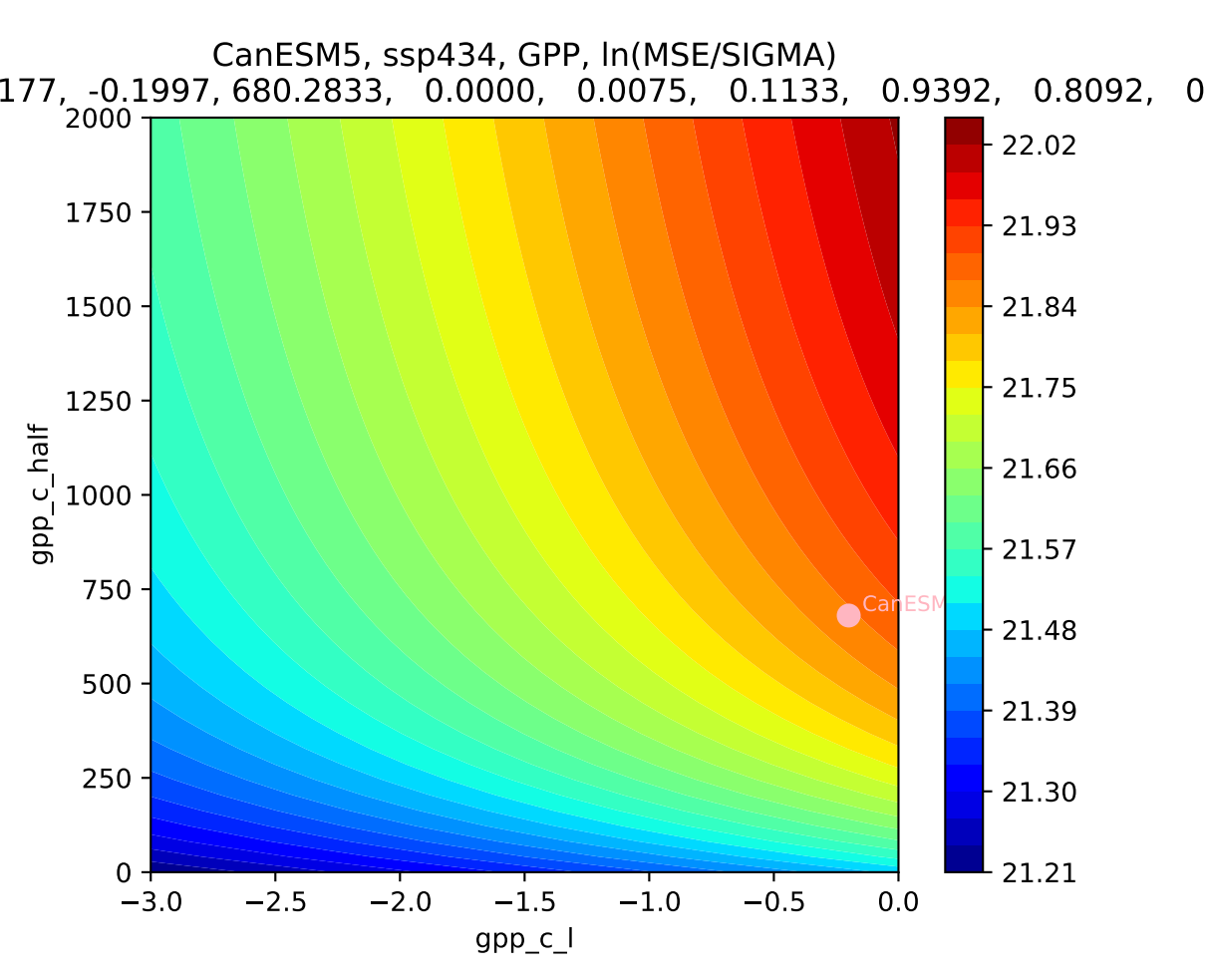

CanESM5, ssp434, GPP
ESM
Fit
GPP
ΔT

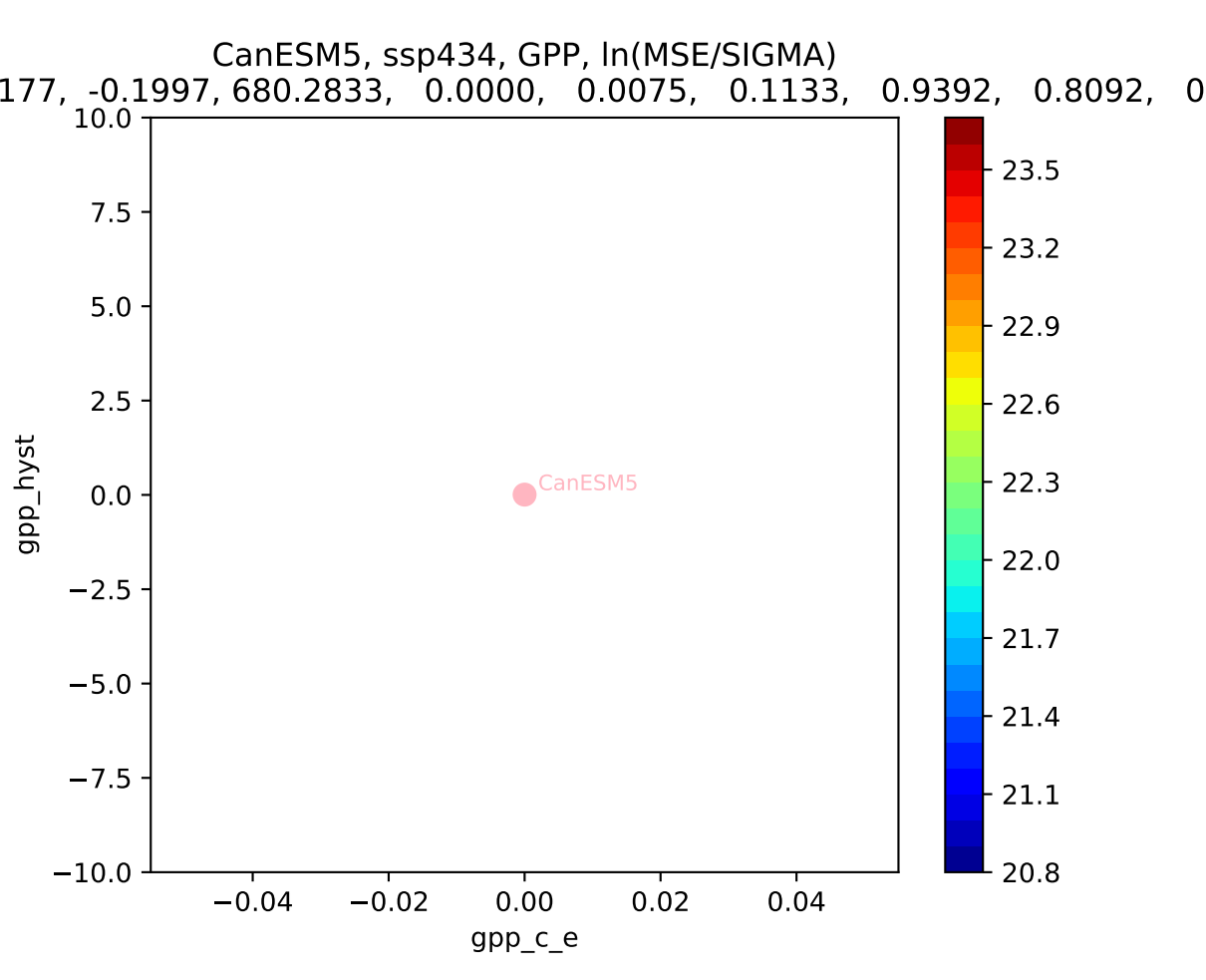

CanESM5, ssp434, GPP
GPP, ESM - FIT
ESM-Fit
ΔT

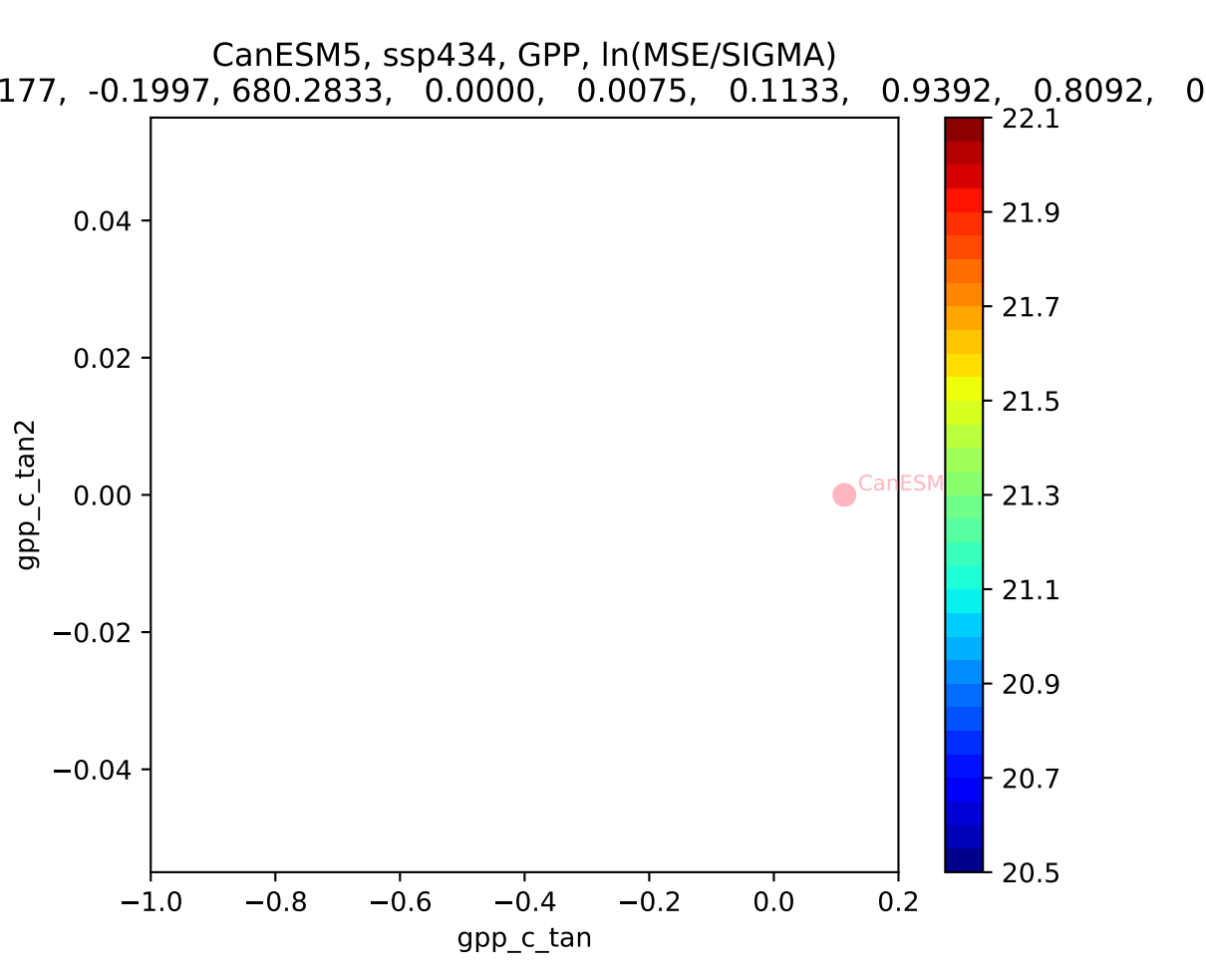

CanESM5, ssp434, GPP
ESM
Fit
GPP
c_atm

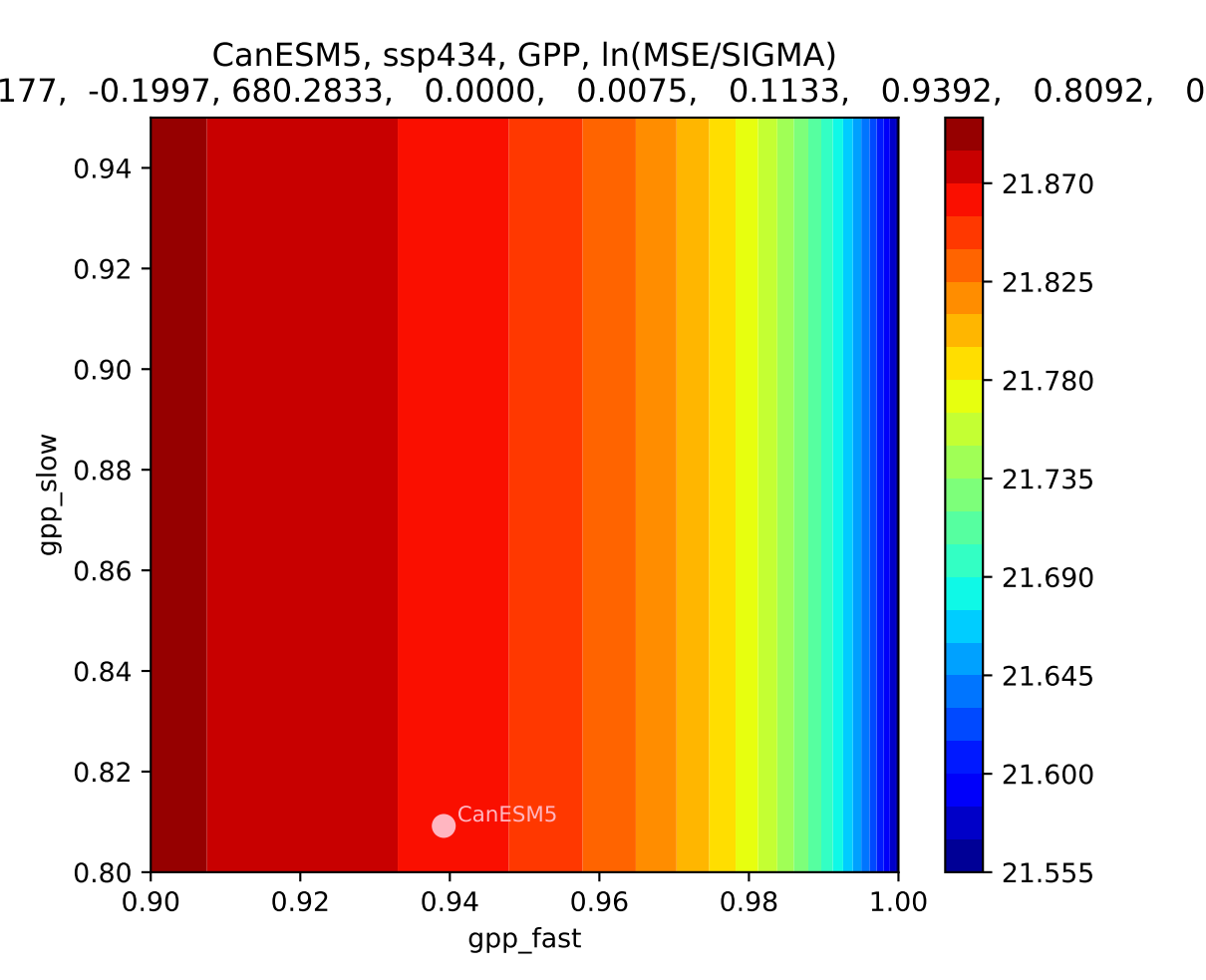

CanESM5, ssp434, GPP
GPP, ESM - FIT
ESM-Fit
c_atm

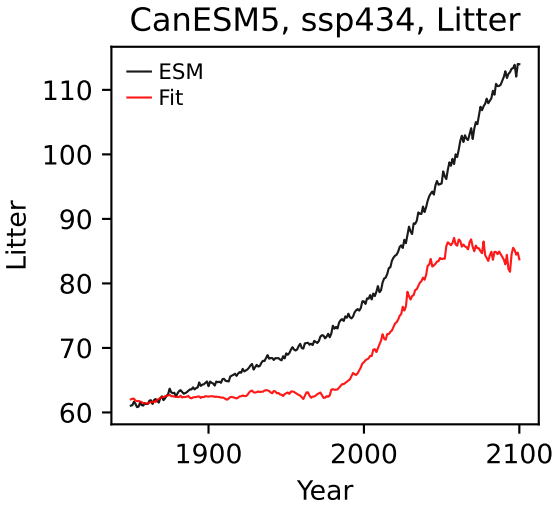

CanESM5, ssp434, GPP, ln(MSE/SIGMA)
177, -0.1997, 680.2833, 0.0000, 0.0075, 0.1133, 0.9392, 0.8092, 0
CanESM5
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
24.15
23.55
22.95
22.35
21.75
21.15
20.55
19.95

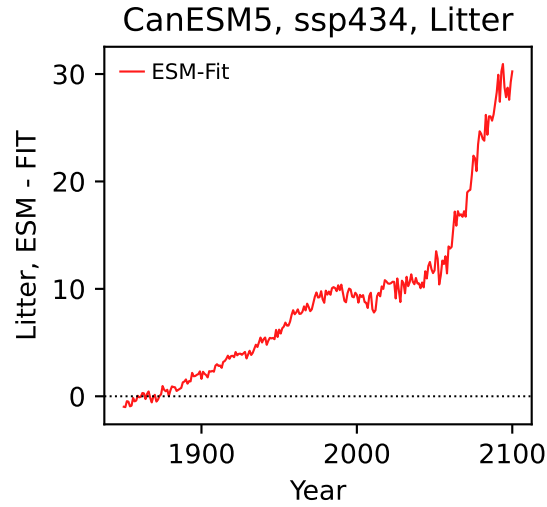

CanESM5, ssp434, GPP, ln(MSE/SIGMA)
177, -0.1997, 680.2833, 0.0000, 0.0075, 0.1133, 0.9392, 0.8092, 0
gpp_c_half
gpp_c_l
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
22.02
21.93
21.84
21.75
21.66
21.57
21.48
21.39
21.30
21.21
CanESM

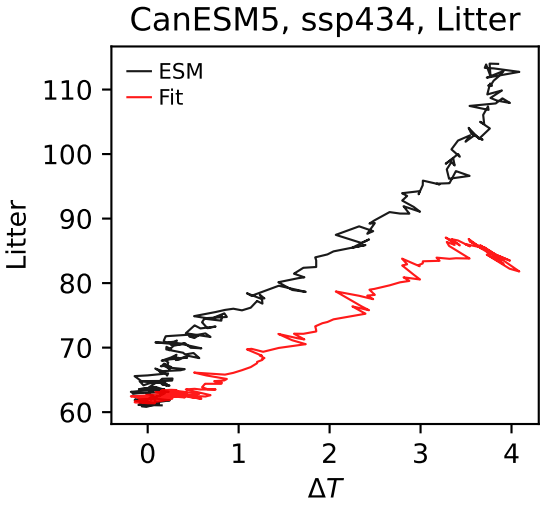

CanESM5, ssp434, GPP, ln(MSE/SIGMA)
177, -0.1997, 680.2833, 0.0000, 0.0075, 0.1133, 0.9392, 0.8092, 0
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
gpp_hyst
CanESM5
−0.04
−0.02
0.00
0.02
0.04
gpp_c_e
23.5
23.2
22.9
22.6
22.3
22.0
21.7
21.4
21.1
20.8

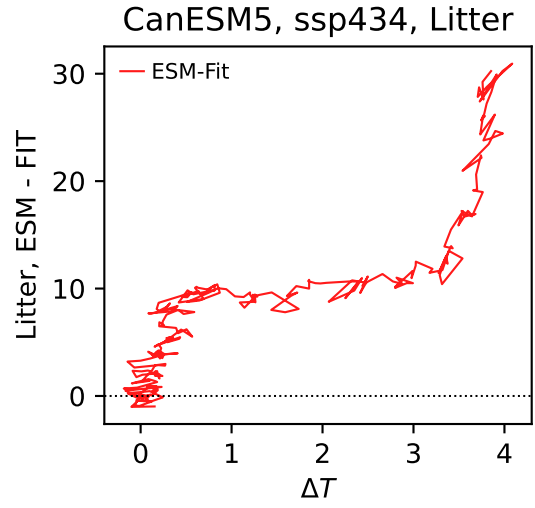

CanESM5, ssp434, GPP, ln(MSE/SIGMA)
177, -0.1997, 680.2833, 0.0000, 0.0075, 0.1133, 0.9392, 0.8092, 0
gpp_c_tan2
gpp_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
22.1
21.9
21.7
21.5
21.3
21.1
20.9
20.7
20.5
CanESM

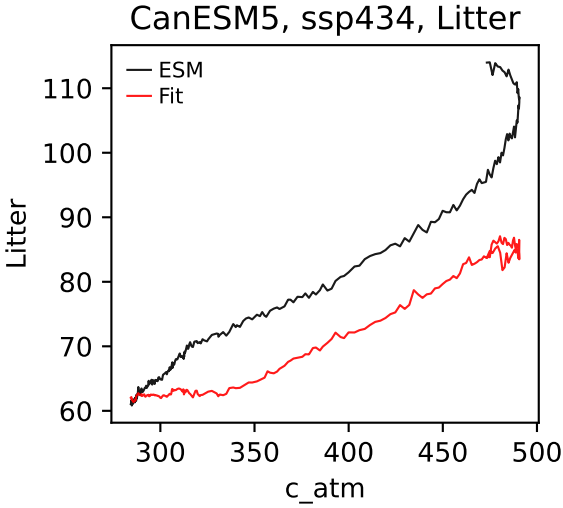

CanESM5, ssp434, GPP, ln(MSE/SIGMA)
177, -0.1997, 680.2833, 0.0000, 0.0075, 0.1133, 0.9392, 0.8092, 0
gpp_slow
gpp_fast
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
0.90
0.92
0.94
0.96
0.98
1.00
CanESM5
21.870
21.825
21.780
21.735
21.690
21.645
21.600
21.555

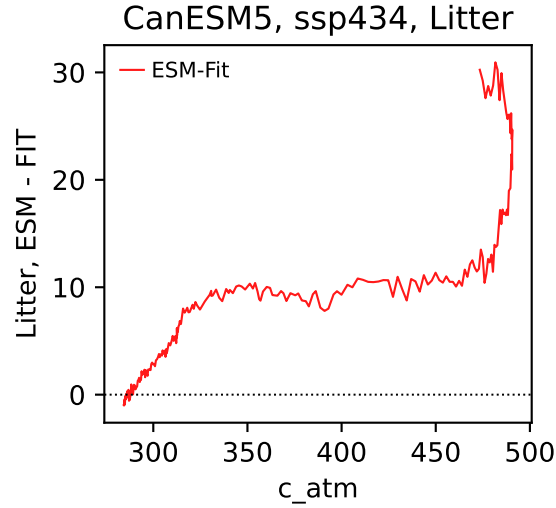

CanESM5, ssp434, Litter
ESM
Fit
Litter
Year

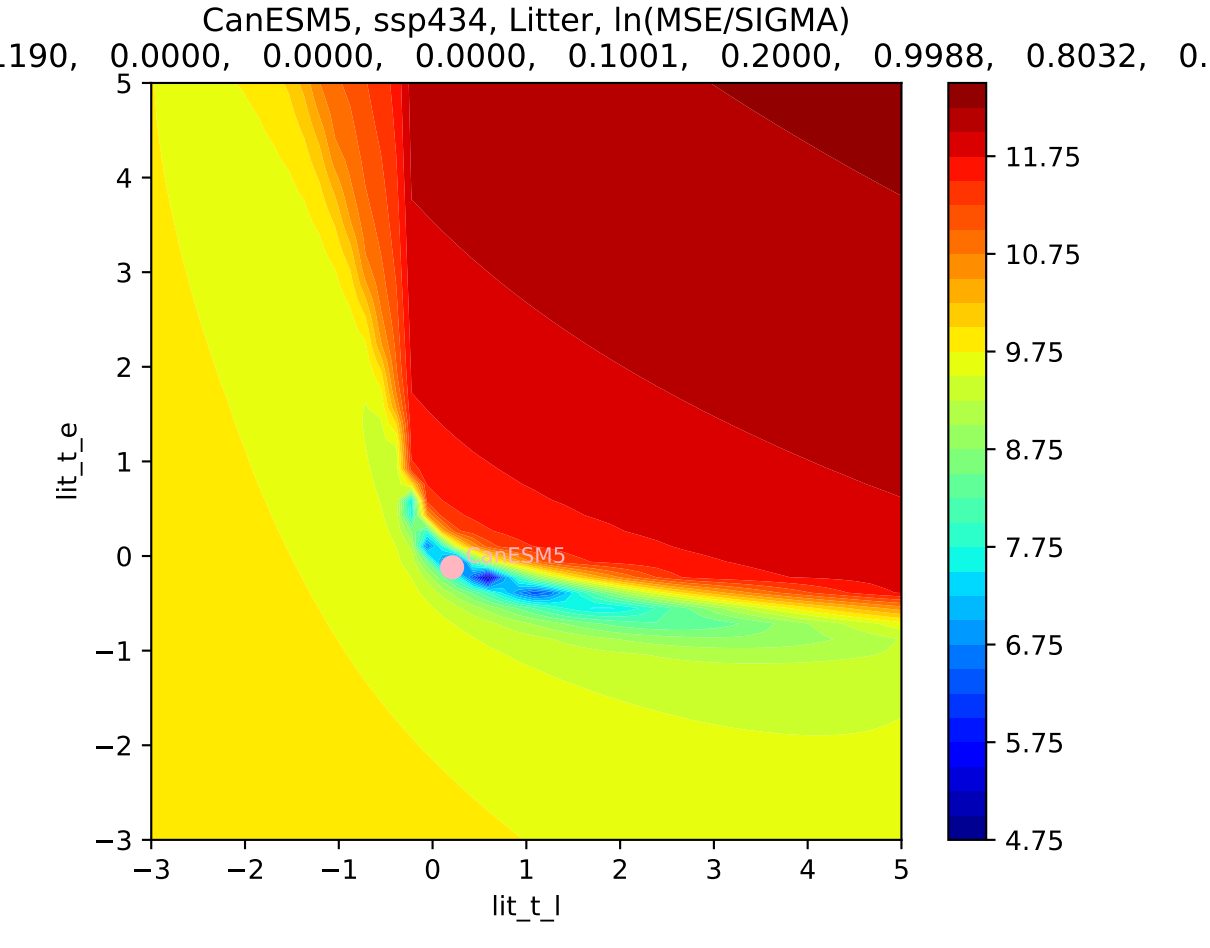

CanESM5, ssp434, Litter
ESM-Fit
Litter, ESM - FIT
Year


CanESM5, ssp434, Litter
ESM
Fit
Litter
ΔT


CanESM5, ssp434, Litter
ESM-Fit
Litter, ESM - FIT
ΔT


CanESM5, ssp434, Litter
ESM
Fit
Litter
c_atm


CanESM5, ssp434, Litter
ESM-Fit
Litter, ESM - FIT
c_atm


CanESM5, ssp434, Litter, ln(MSE/SIGMA)
.190, 0.0000, 0.0000, 0.0000, 0.1001, 0.2000, 0.9988, 0.8032, 0.
lit_t_e
lit_t_l
CanESM5
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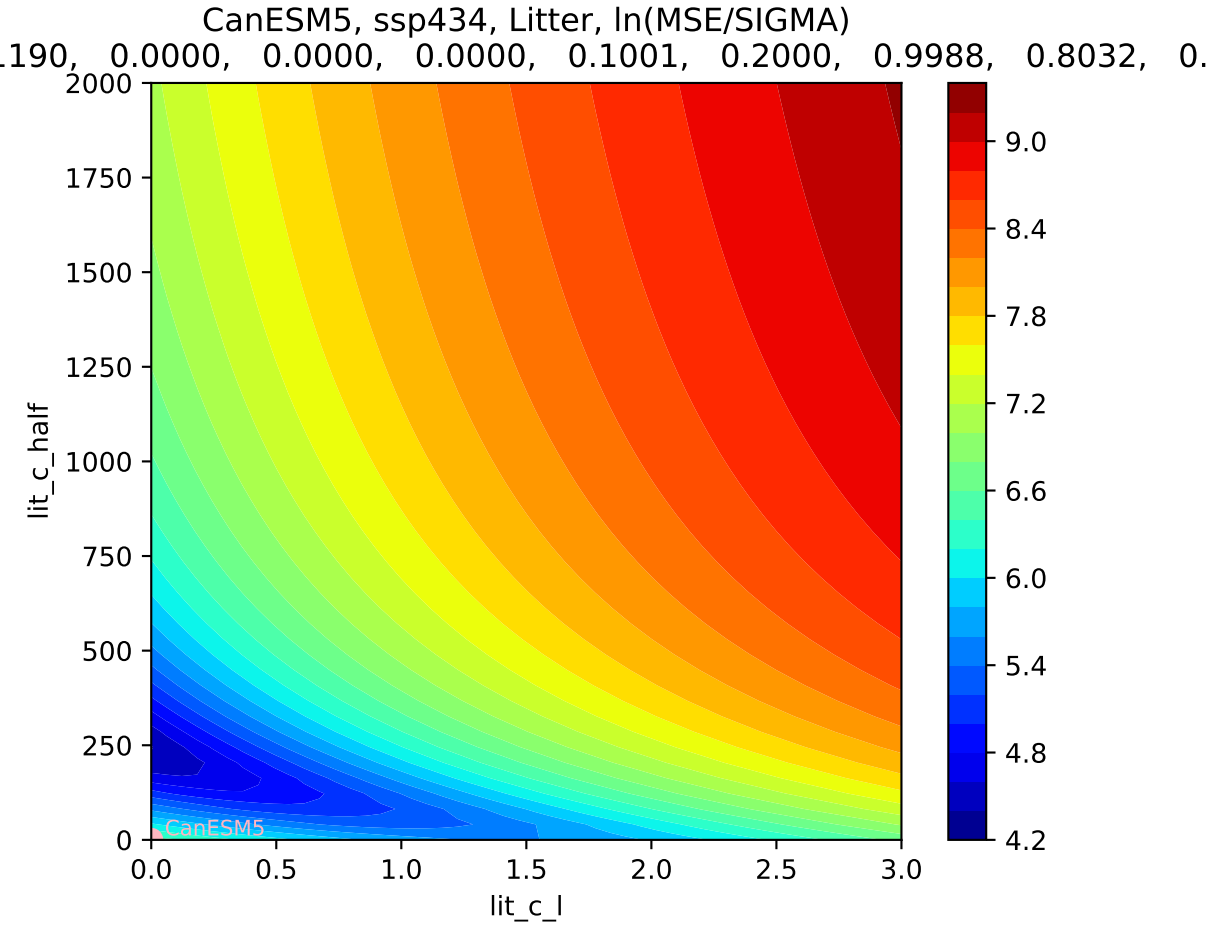
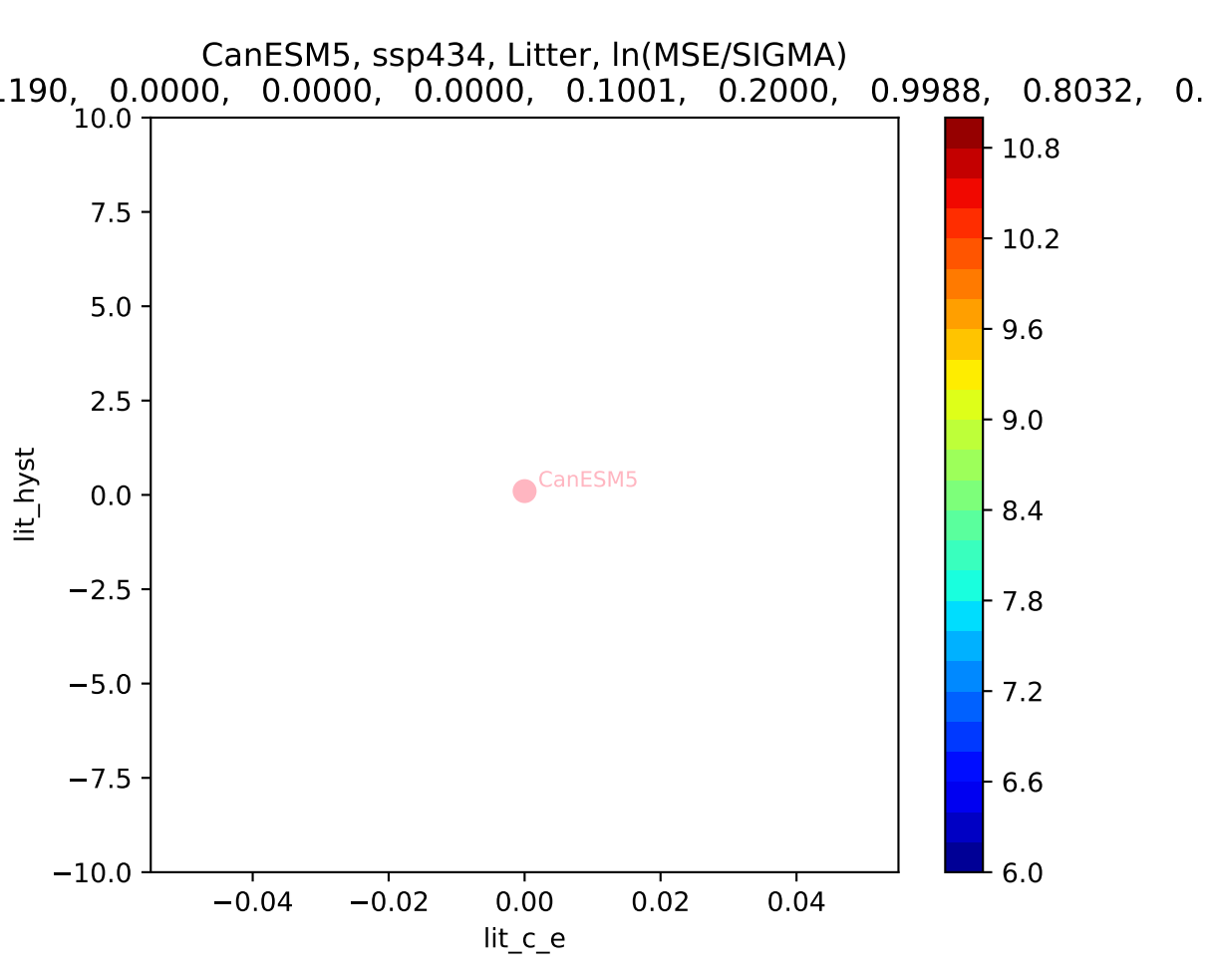
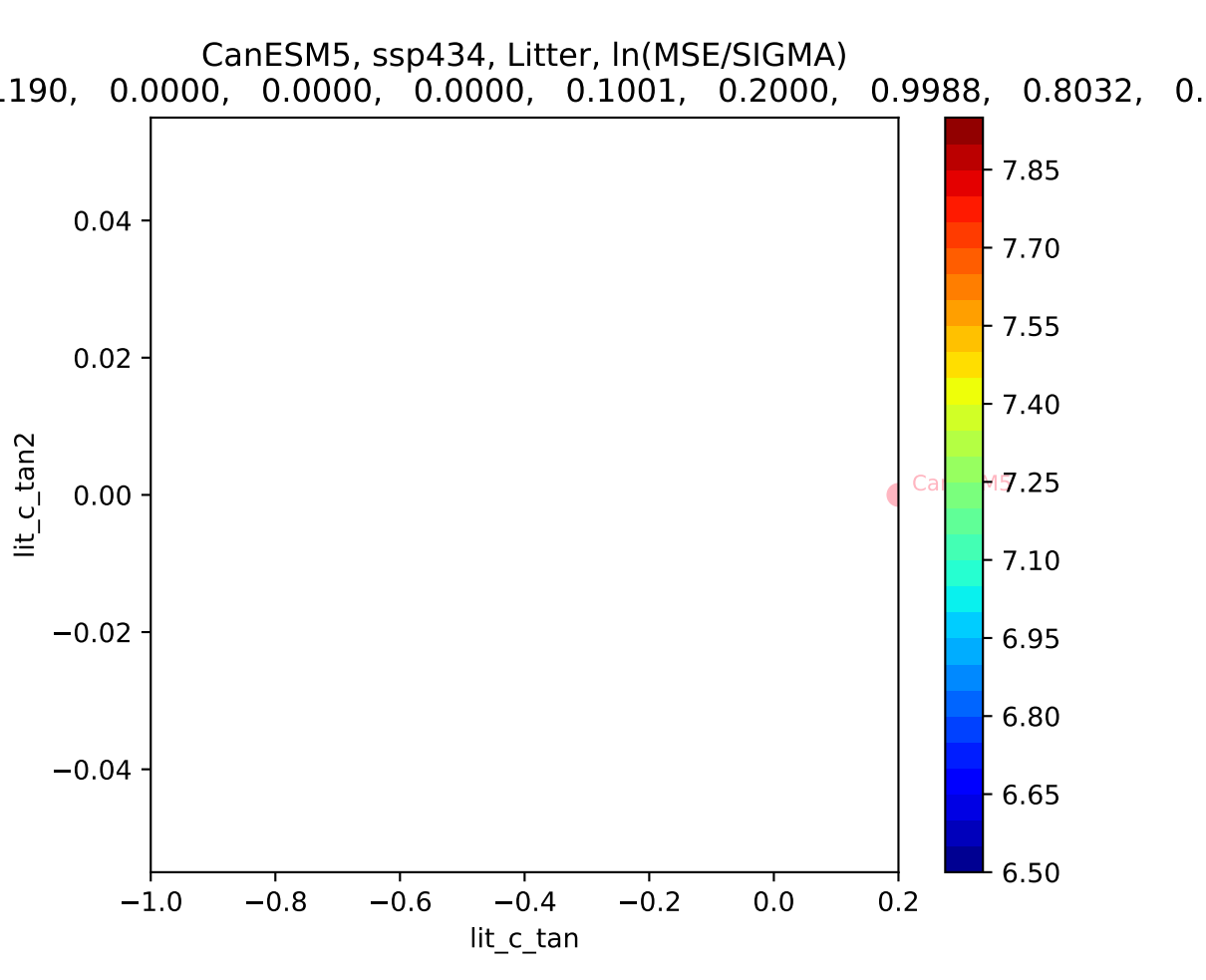
10.75
9.75
8.75
7.75
6.75
5.75
4.75


CanESM5, ssp434, Litter, ln(MSE/SIGMA)
.190, 0.0000, 0.0000, 0.0000, 0.1001, 0.2000, 0.9988, 0.8032, 0.
lit_c_half
lit_c_l
CanESM5
2000
1750
1500
1250
1000
750
500
250
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
9.0
8.4
7.8
7.2
6.6
6.0
5.4
4.8
4.2


CanESM5, ssp434, Litter, ln(MSE/SIGMA)
.190, 0.0000, 0.0000, 0.0000, 0.1001, 0.2000, 0.9988, 0.8032, 0.
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
lit_hyst
CanESM5
−0.04
−0.02
0.00
0.02
0.04
lit_c_e
10.8
10.2
9.6
9.0
8.4
7.8
7.2
6.6
6.0


CanESM5, ssp434, Litter, ln(MSE/SIGMA)
.190, 0.0000, 0.0000, 0.0000, 0.1001, 0.2000, 0.9988, 0.8032, 0.
0.04
0.02
0.00
−0.02
−0.04
lit_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
lit_c_tan
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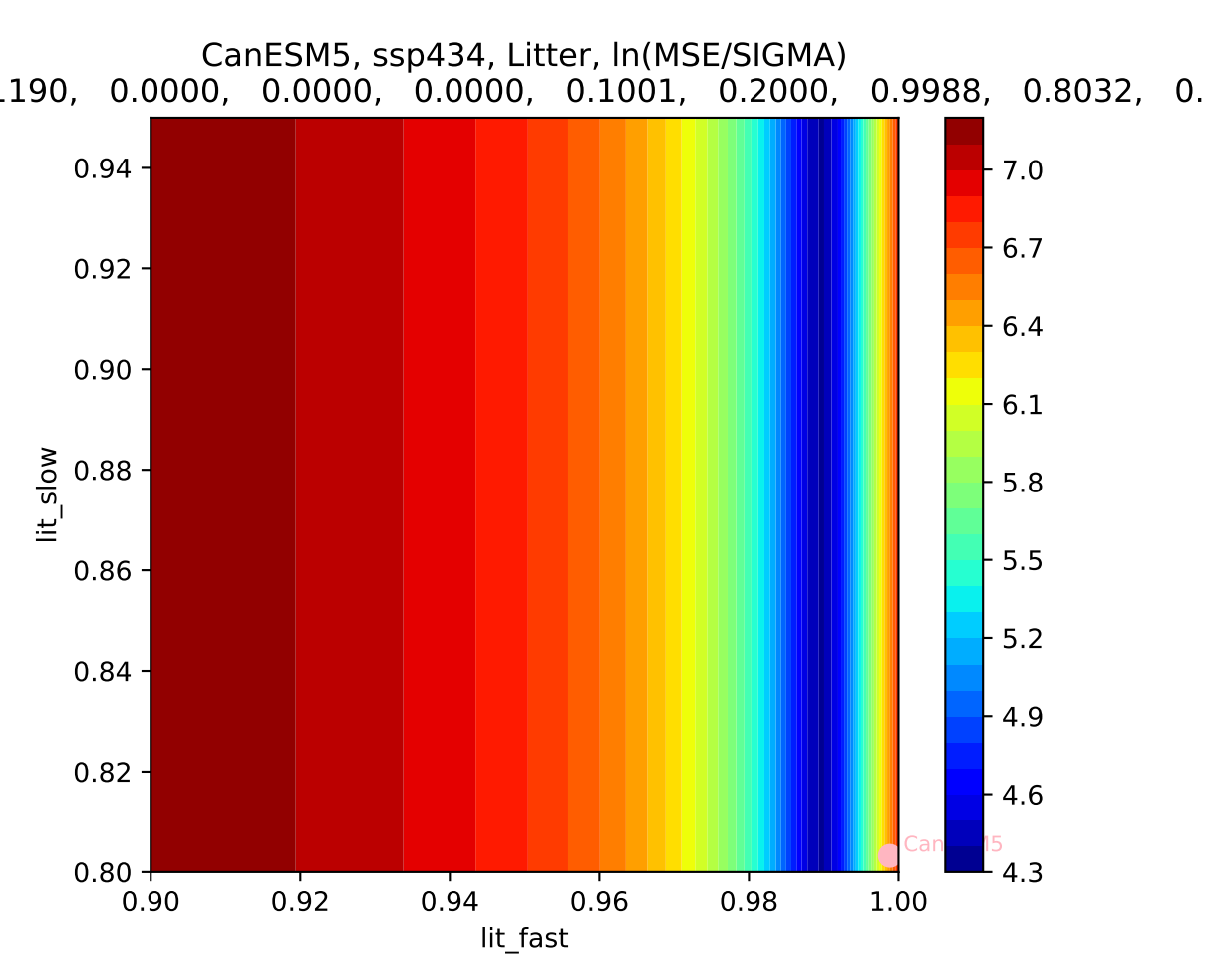
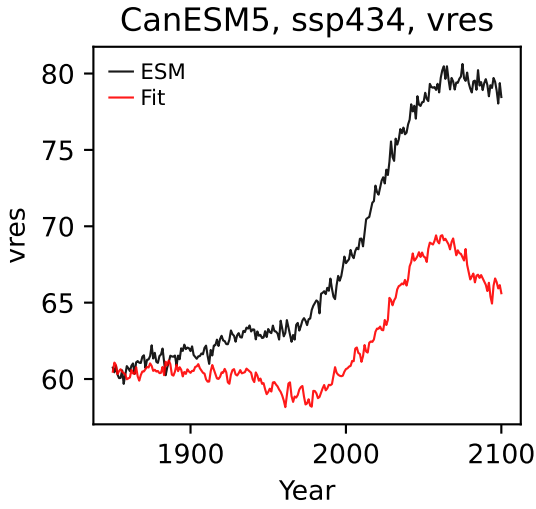
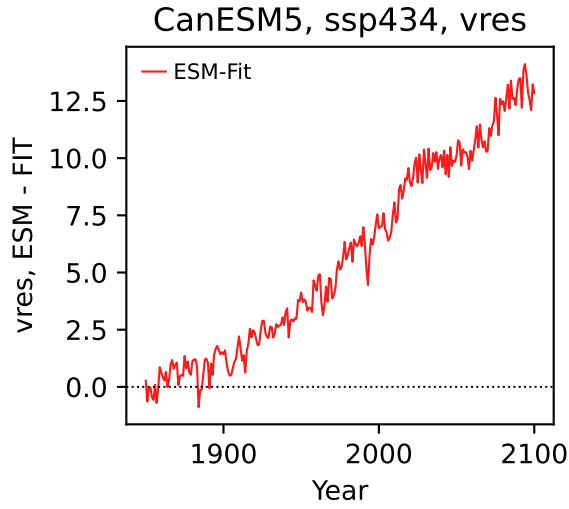
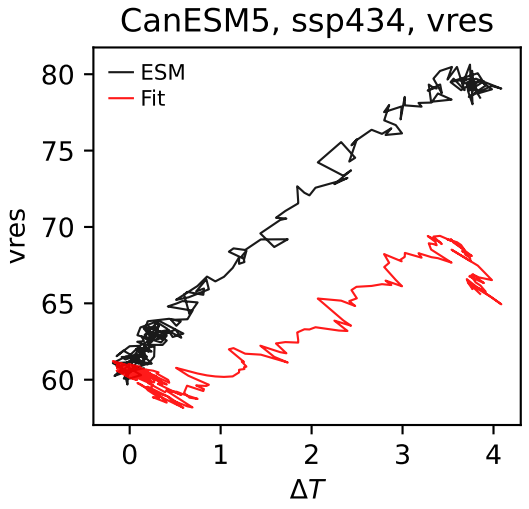
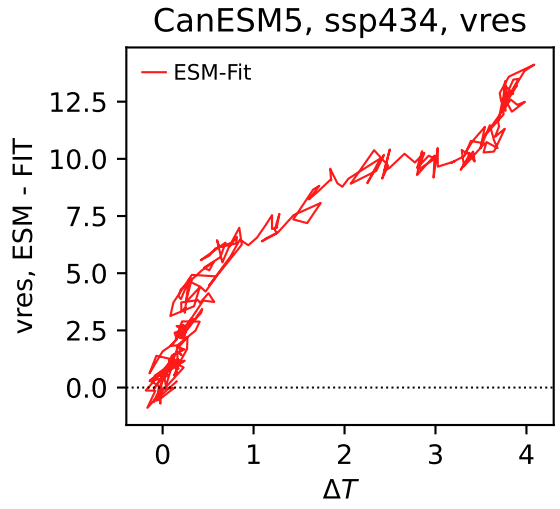
7.70
7.55
7.40
7.25
7.10
6.95
6.80
6.65
6.50

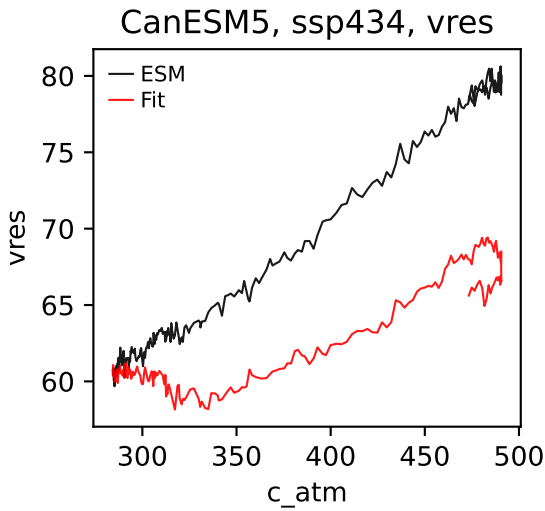

CanESM5, ssp434, Litter, ln(MSE/SIGMA)
.190, 0.0000, 0.0000, 0.0000, 0.1001, 0.2000, 0.9988, 0.8032, 0.
lit_slow
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
7.0
6.7
6.4
6.1
5.8
5.5
5.2
4.9
4.6
4.3

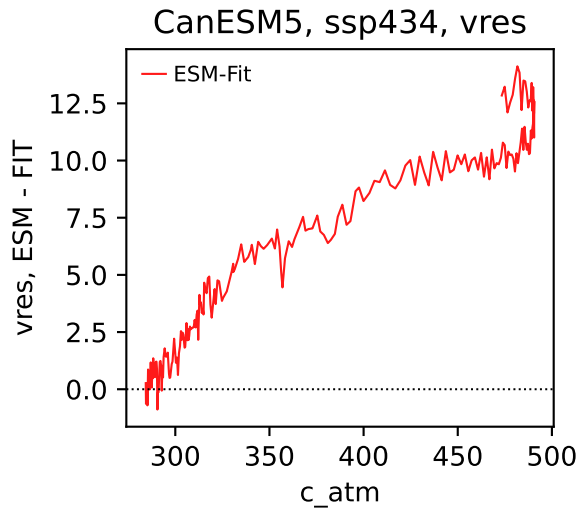

CanESM5, ssp434, vres
ESM
Fit
vres
Year

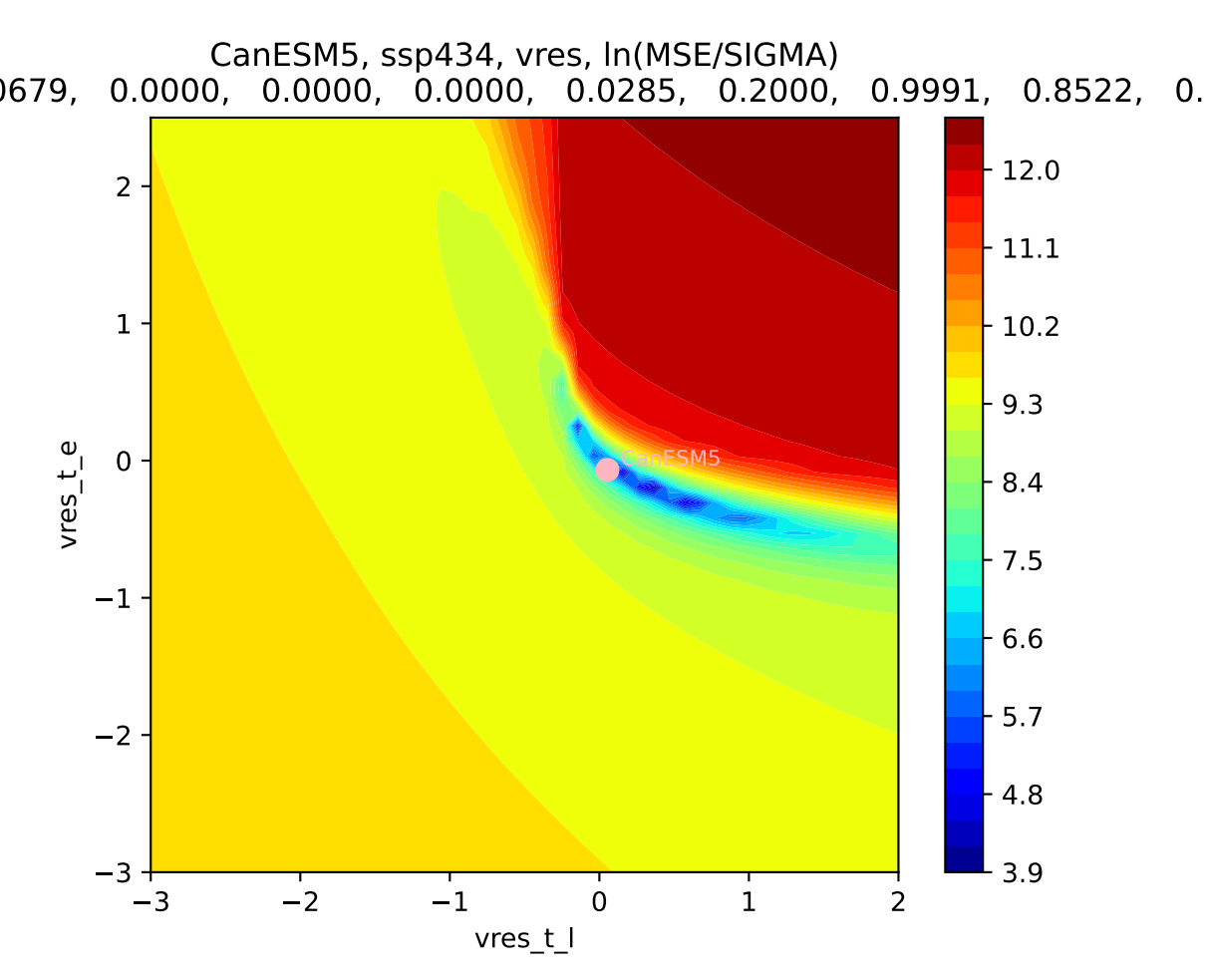

CanESM5, ssp434, vres
ESM-Fit
vres, ESM - FIT
Year

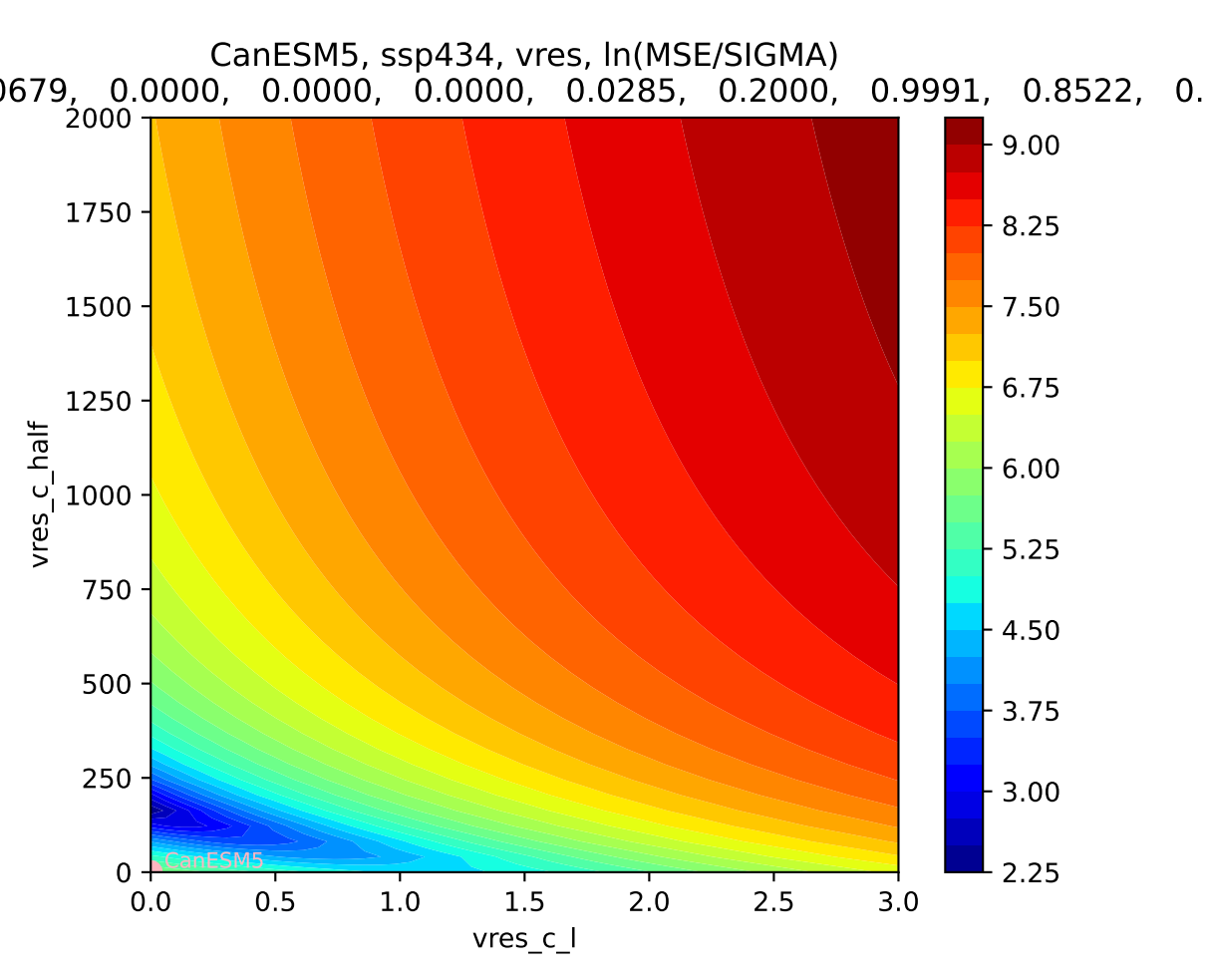

CanESM5, ssp434, vres
ESM
Fit
vres
ΔT

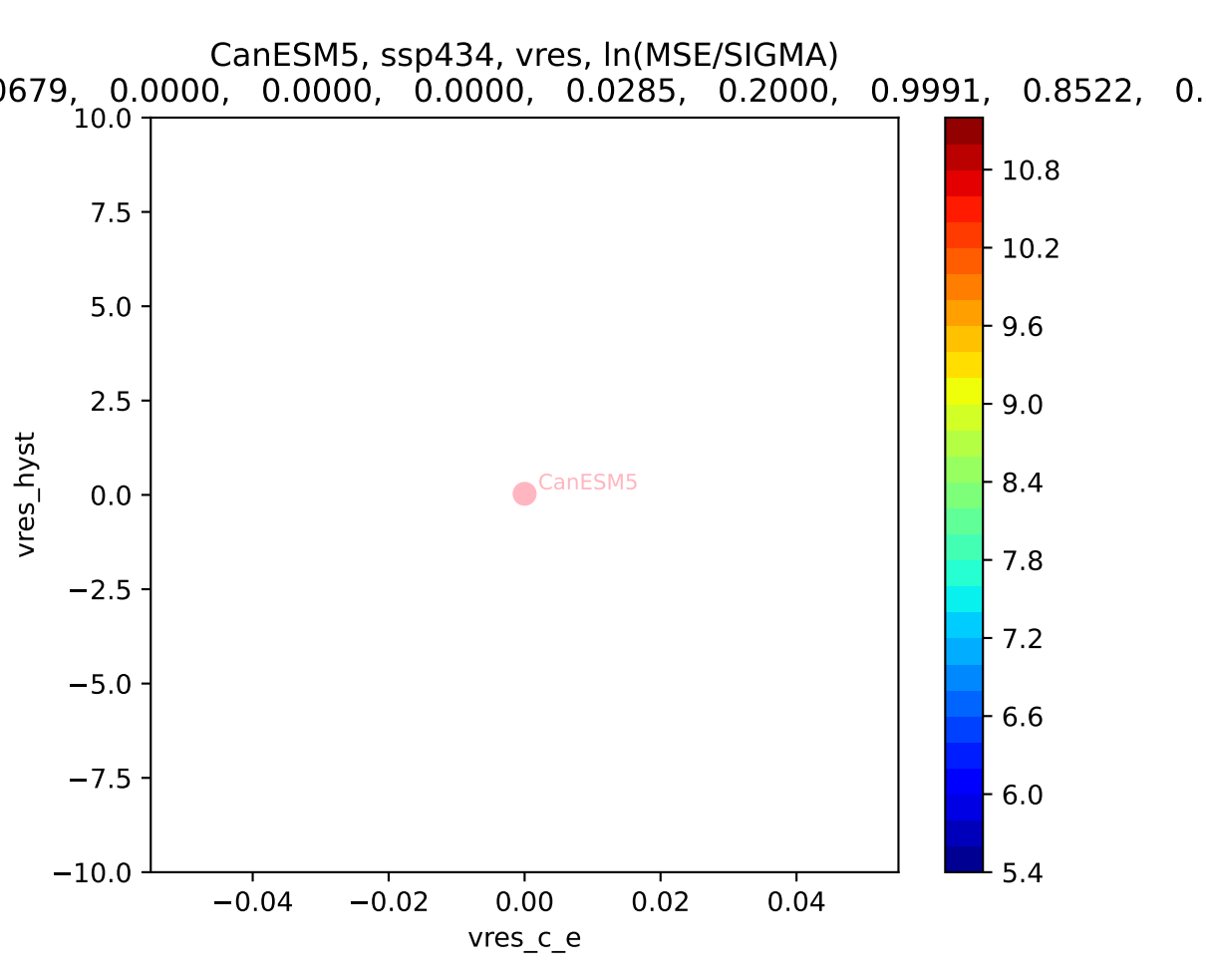

CanESM5, ssp434, vres
ESM-Fit
vres, ESM - FIT
ΔT

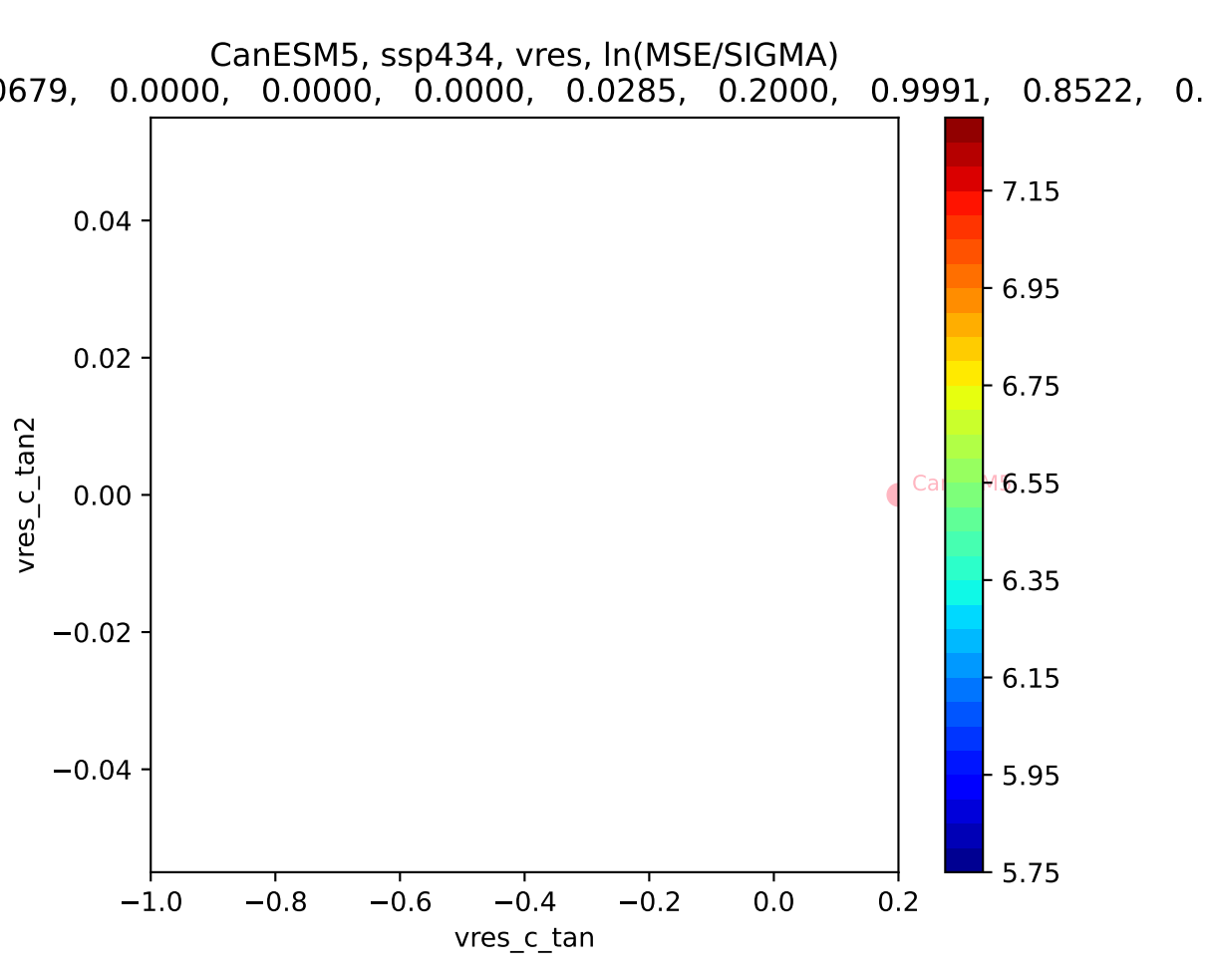

CanESM5, ssp434, vres
ESM
Fit
vres
c_atm

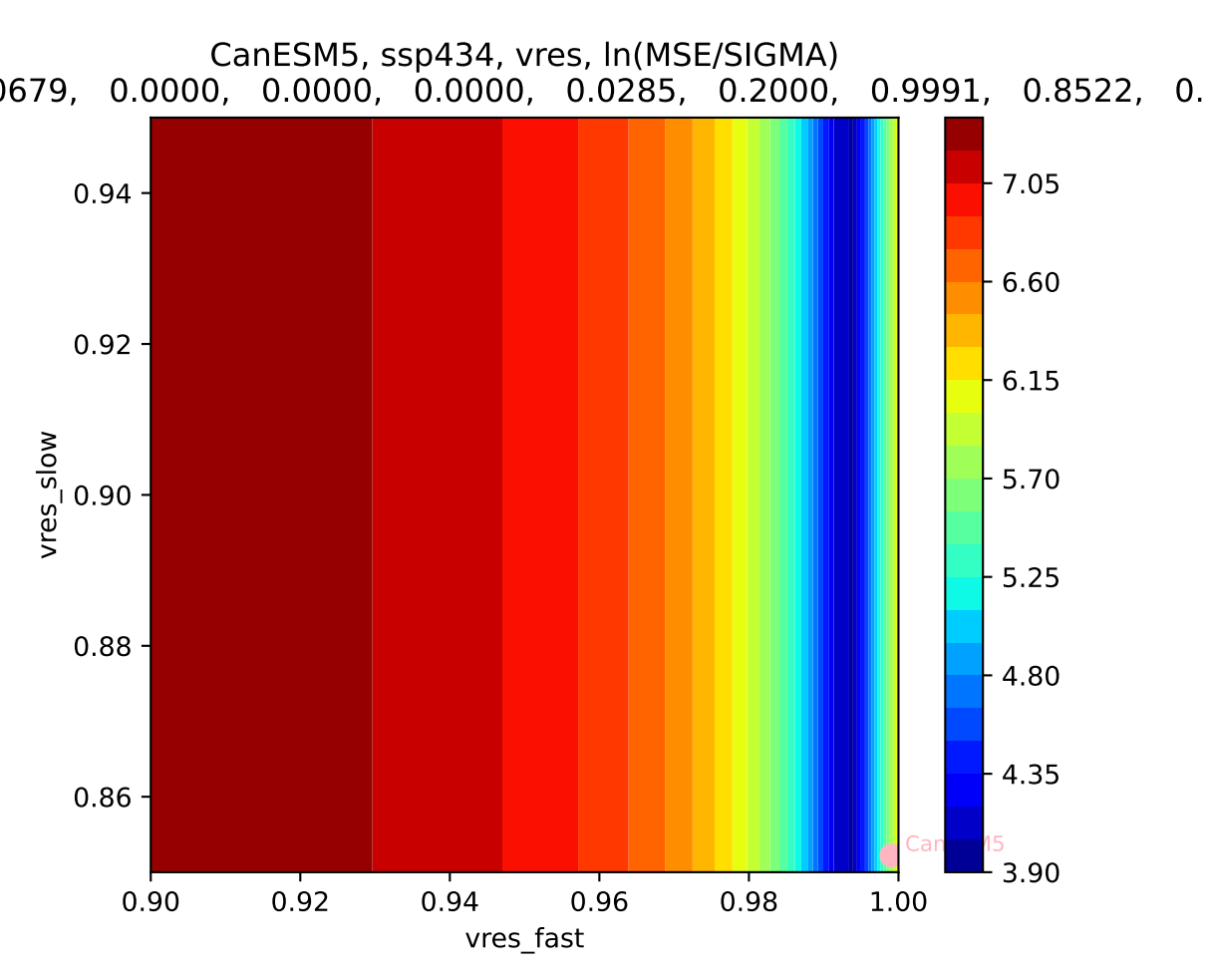

CanESM5, ssp434, vres
ESM-Fit
vres, ESM - FIT
c_atm

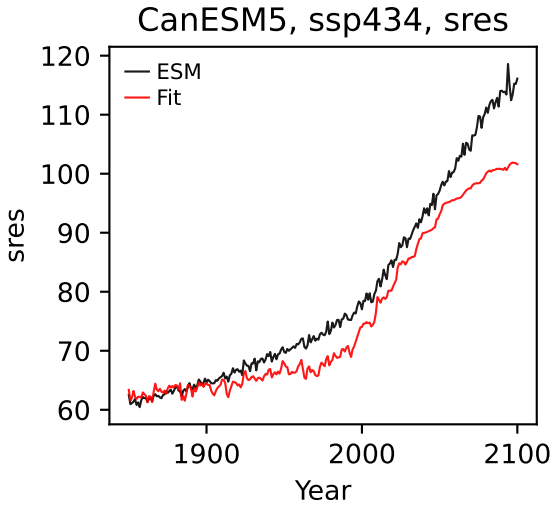

CanESM5, ssp434, vres, ln(MSE/SIGMA)
0679, 0.0000, 0.0000, 0.0000, 0.0285, 0.2000, 0.9991, 0.8522, 0.
CanESM5
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
12.0
11.1
10.2
9.3
8.4
7.5
6.6
5.7
4.8
3.9

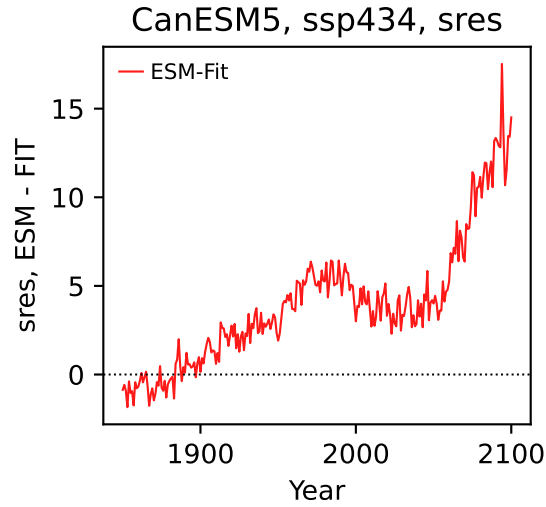

CanESM5, ssp434, vres, ln(MSE/SIGMA)
0679, 0.0000, 0.0000, 0.0000, 0.0285, 0.2000, 0.9991, 0.8522, 0.
vres_c_half
vres_c_l
CanESM5
2000
1750
1500
1250
1000
750
500
250
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
9.00
8.25
7.50
6.75
6.00
5.25
4.50
3.75
3.00
2.25

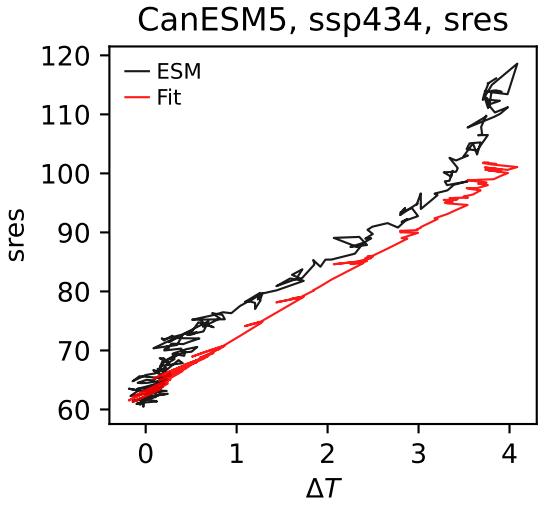

CanESM5, ssp434, vres, ln(MSE/SIGMA)
0679, 0.0000, 0.0000, 0.0000, 0.0285, 0.2000, 0.9991, 0.8522, 0.
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
vres_hyst
CanESM5
−0.04
−0.02
0.00
0.02
0.04
vres_c_e
10.8
10.2
9.6
9.0
8.4
7.8
7.2
6.6
6.0
5.4

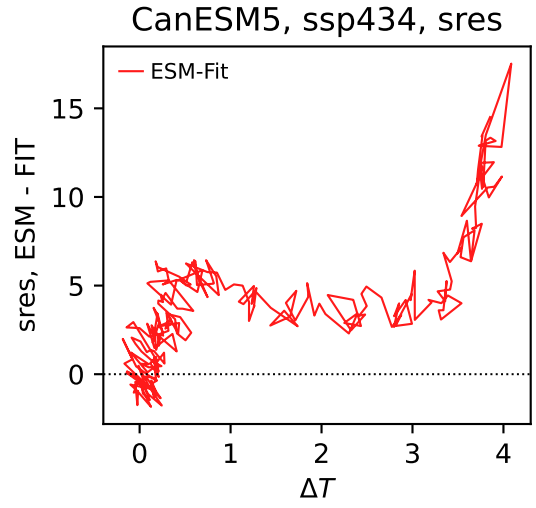

CanESM5, ssp434, vres, ln(MSE/SIGMA)
0679, 0.0000, 0.0000, 0.0000, 0.0285, 0.2000, 0.9991, 0.8522, 0.
0.04
0.02
0.00
−0.02
−0.04
vres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
vres_c_tan
7.15
6.95
6.75
6.55
6.35
6.15
5.95
5.75

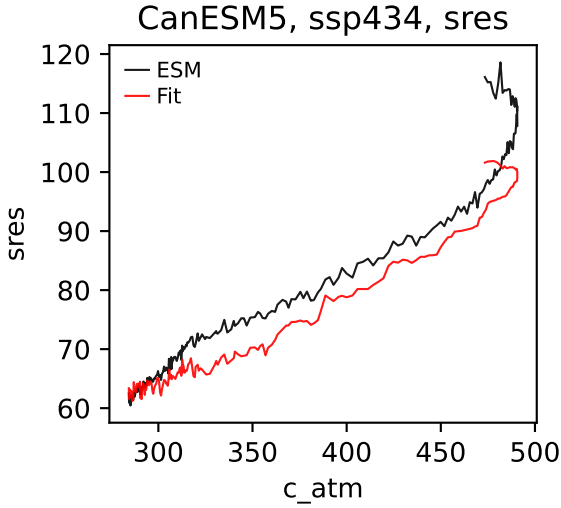

CanESM5, ssp434, vres, ln(MSE/SIGMA)
0679, 0.0000, 0.0000, 0.0000, 0.0285, 0.2000, 0.9991, 0.8522, 0.
0.94
0.92
0.90
0.88
0.86
vres_slow
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast
7.05
6.60
6.15
5.70
5.25
4.80
4.35
3.90

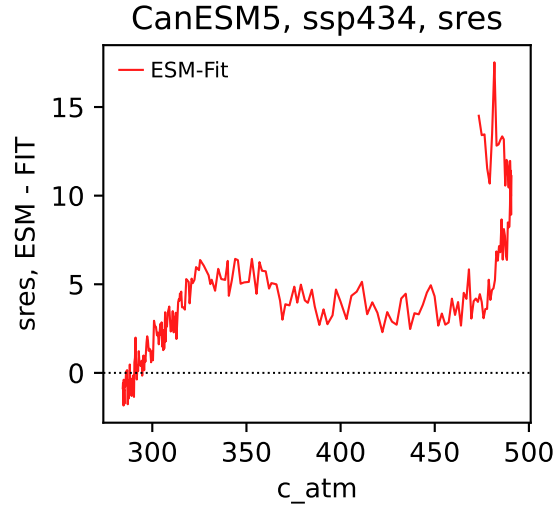

CanESM5, ssp434, sres
ESM
Fit
sres
Year

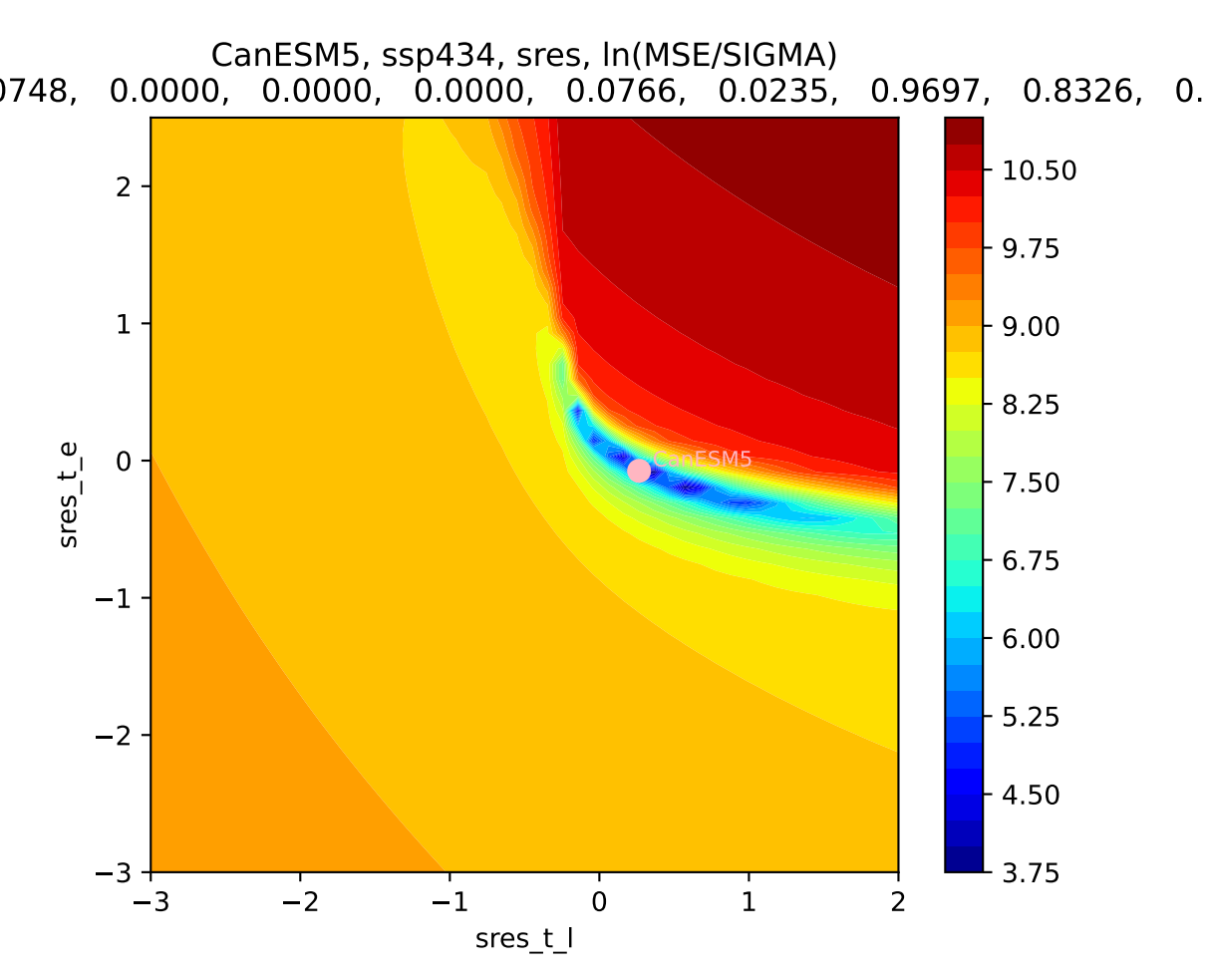

CanESM5, ssp434, sres
ESM-Fit
sres, ESM - FIT
Year

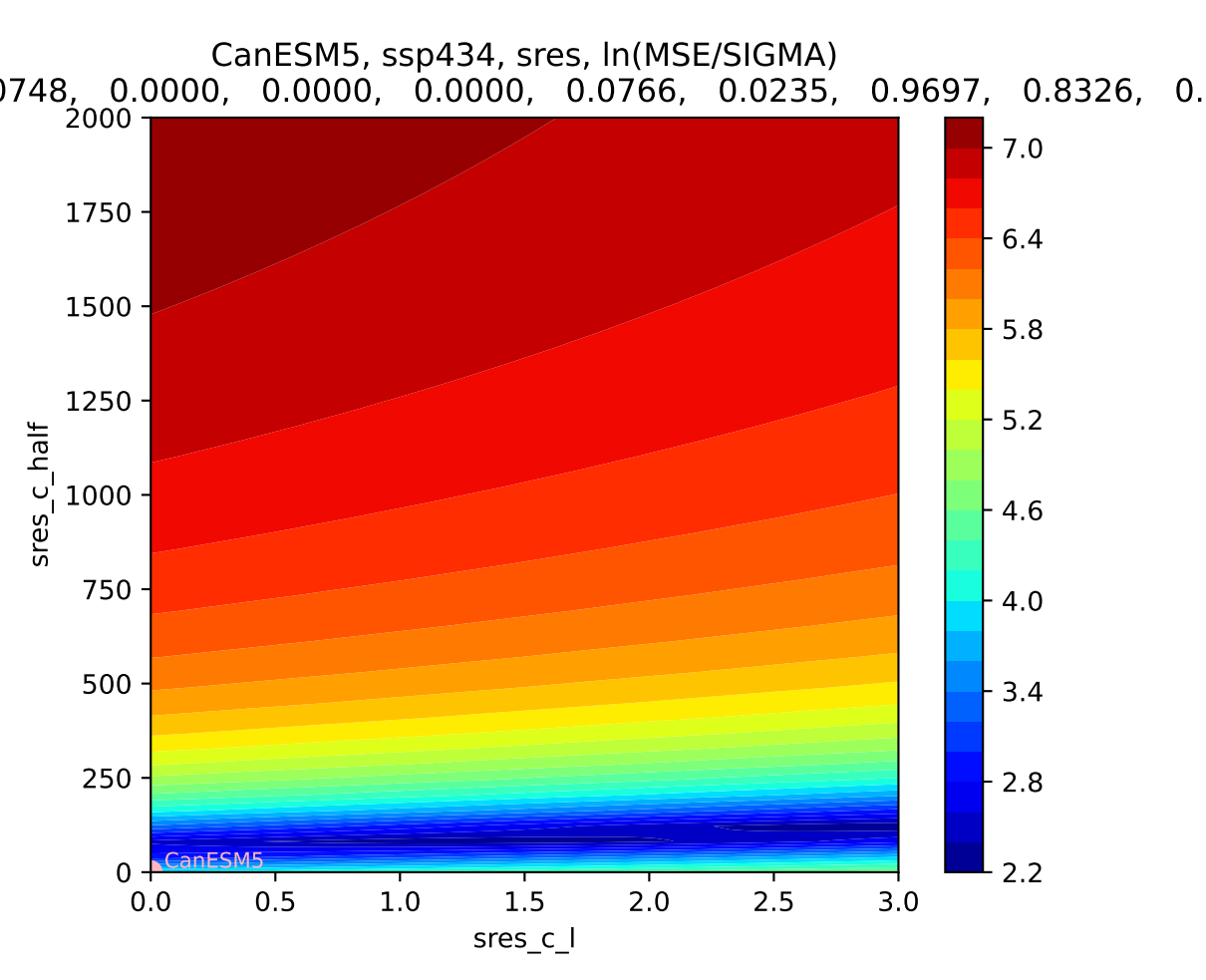

CanESM5, ssp434, sres
ESM
Fit
sres
ΔT

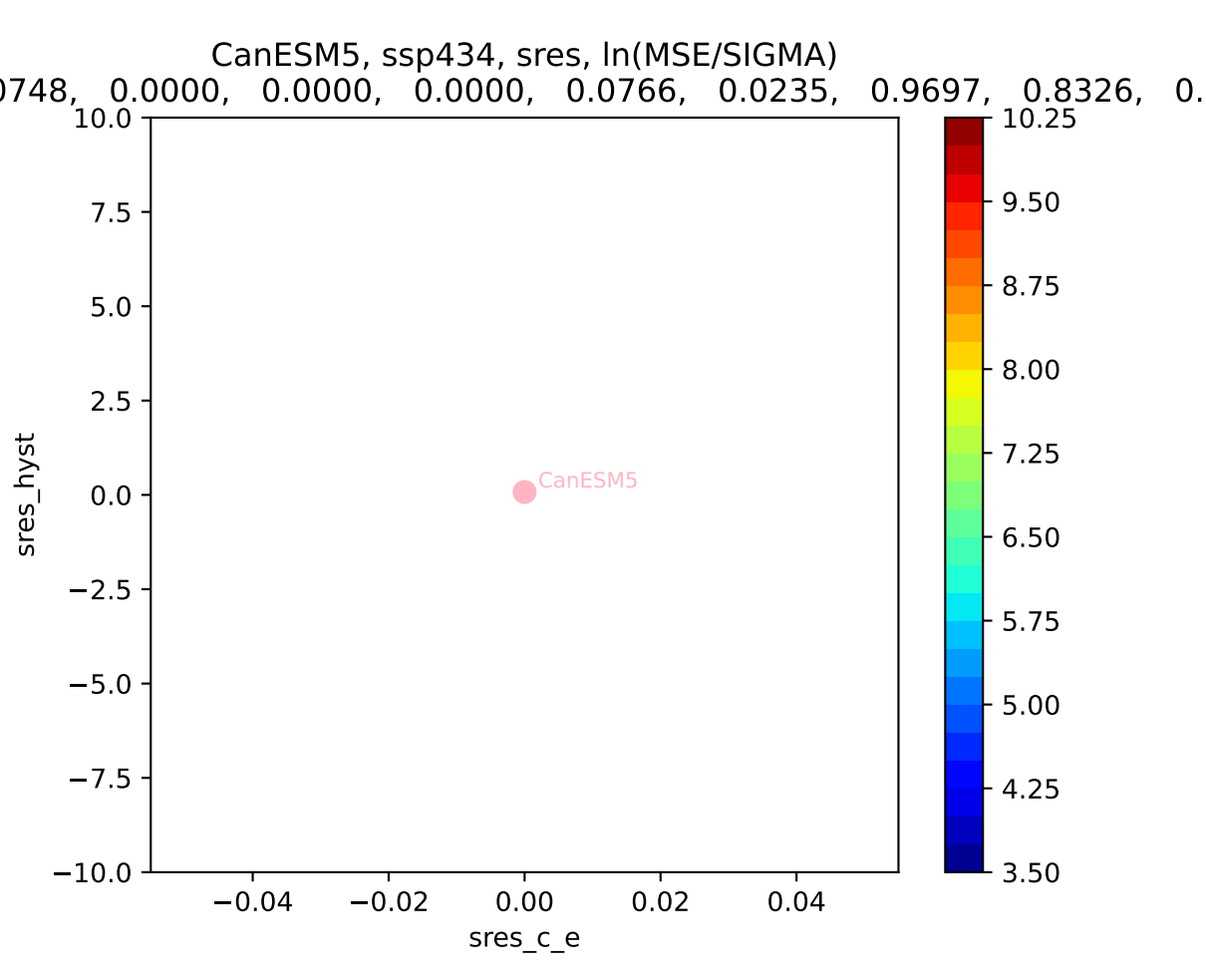

CanESM5, ssp434, sres
ESM-Fit
sres, ESM - FIT
ΔT

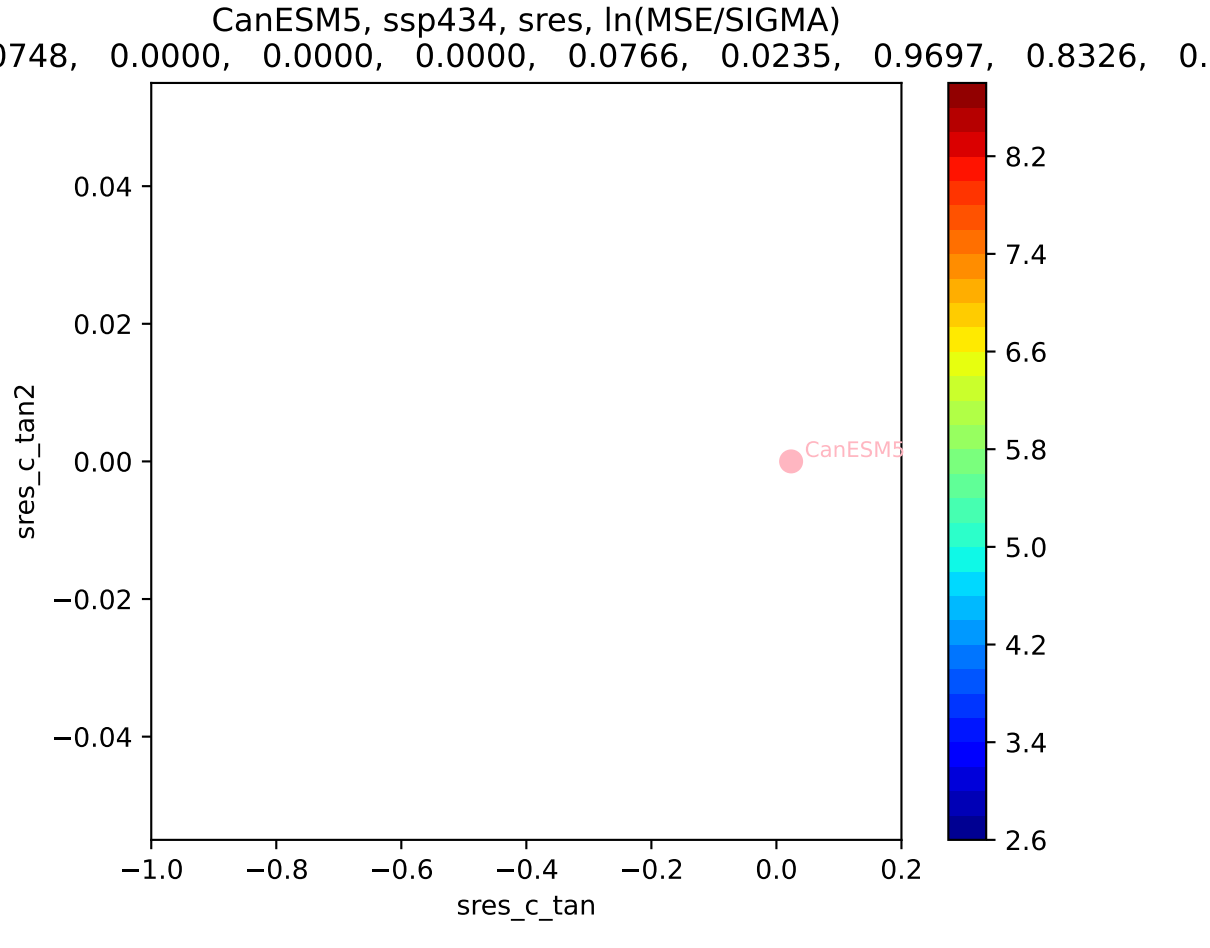

CanESM5, ssp434, sres
ESM
Fit
sres
c_atm

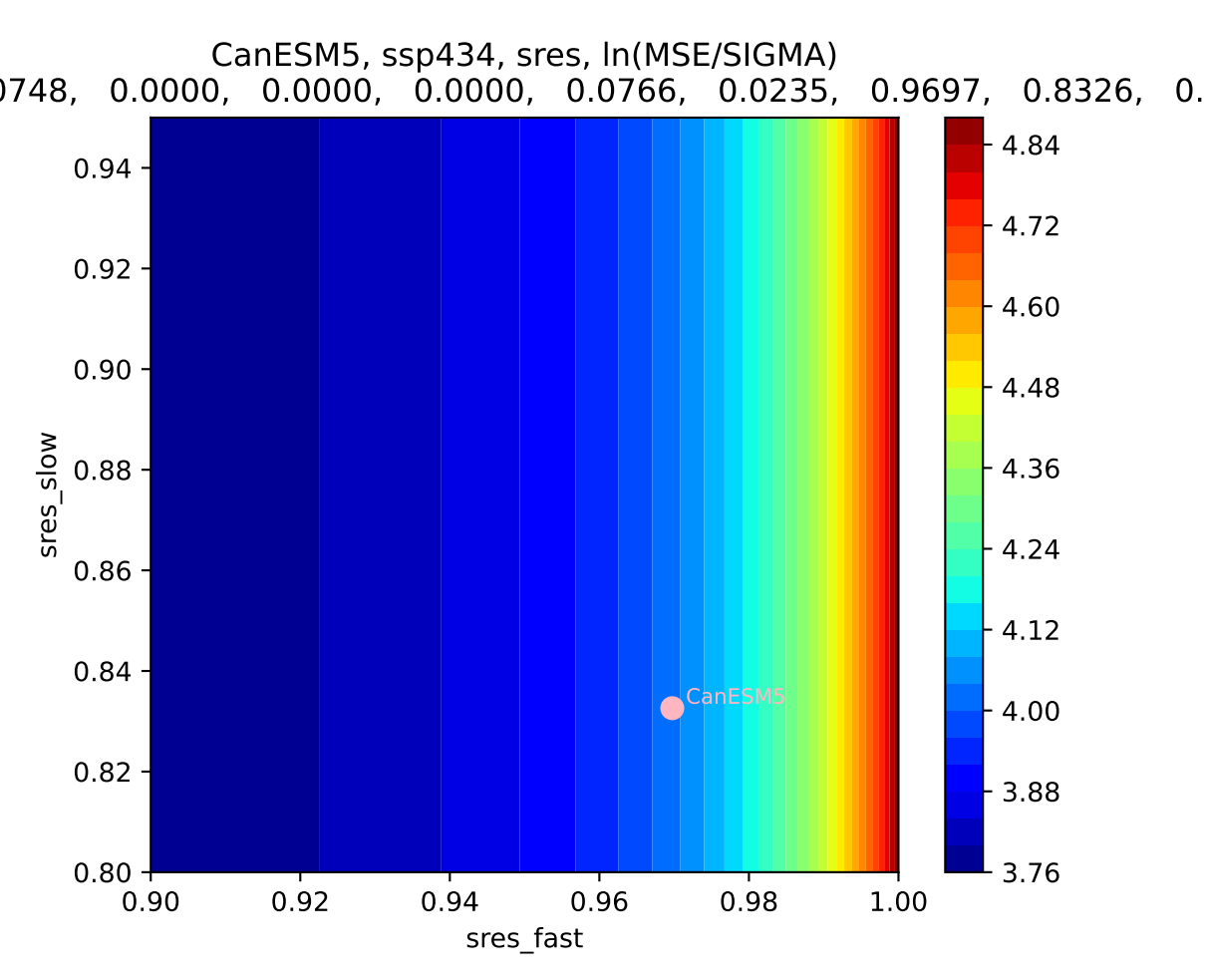

CanESM5, ssp434, sres
ESM-Fit
sres, ESM - FIT
c_atm

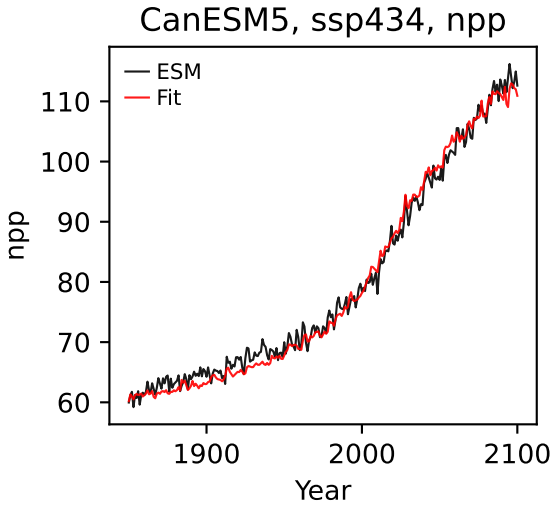

CanESM5, ssp434, sres, ln(MSE/SIGMA)
0748, 0.0000, 0.0000, 0.0000, 0.0766, 0.0235, 0.9697, 0.8326, 0.
CanESM5
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
10.50
9.75
9.00
8.25
7.50
6.75
6.00
5.25
4.50
3.75

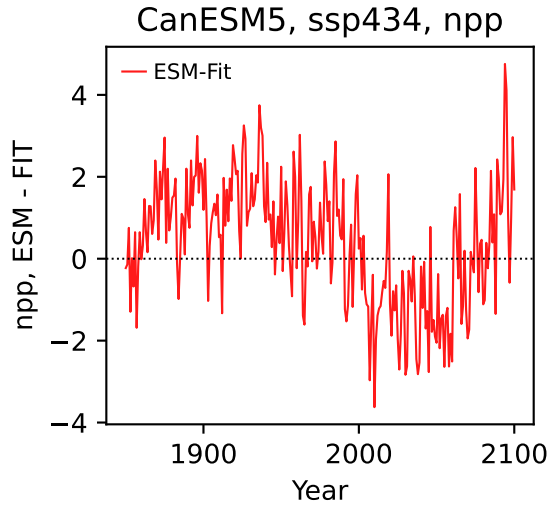

CanESM5, ssp434, sres, ln(MSE/SIGMA)
0748, 0.0000, 0.0000, 0.0000, 0.0766, 0.0235, 0.9697, 0.8326, 0.
sres_c_half
sres_c_l
CanESM5
2000
1750
1500
1250
1000
750
500
250
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.0
6.4
5.8
5.2
4.6
4.0
3.4
2.8
2.2

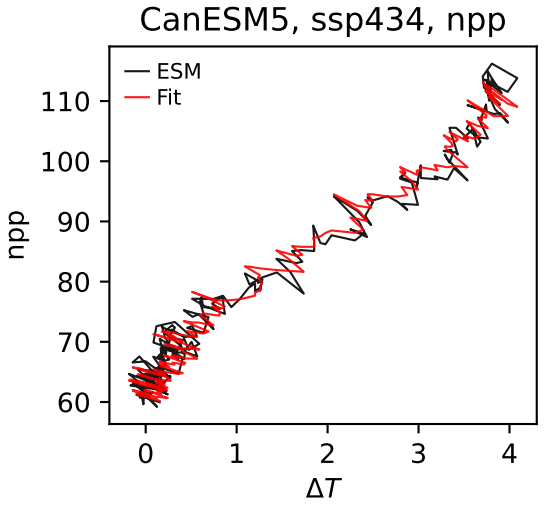

CanESM5, ssp434, sres, ln(MSE/SIGMA)
0748, 0.0000, 0.0000, 0.0000, 0.0766, 0.0235, 0.9697, 0.8326, 0.
CanESM5
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−0.04
−0.02
0.00
0.02
0.04
10.25
9.50
8.75
8.00
7.25
6.50
5.75
5.00
4.25
3.50

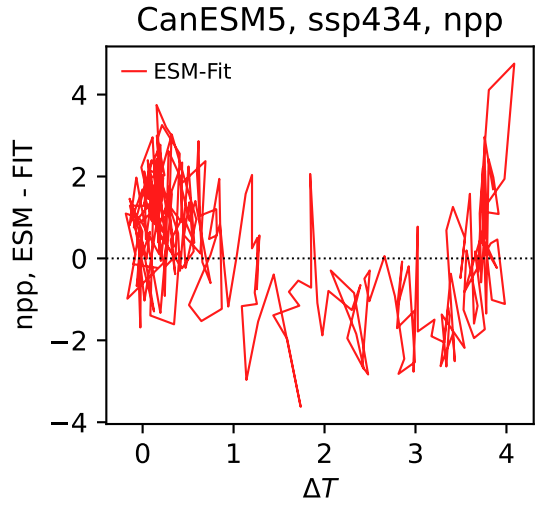

CanESM5, ssp434, sres, ln(MSE/SIGMA)
0748, 0.0000, 0.0000, 0.0000, 0.0766, 0.0235, 0.9697, 0.8326, 0.
CanESM5
0.04
0.02
0.00
−0.02
−0.04
sres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
sres_c_tan
8.2
7.4
6.6
5.8
5.0
4.2
3.4
2.6

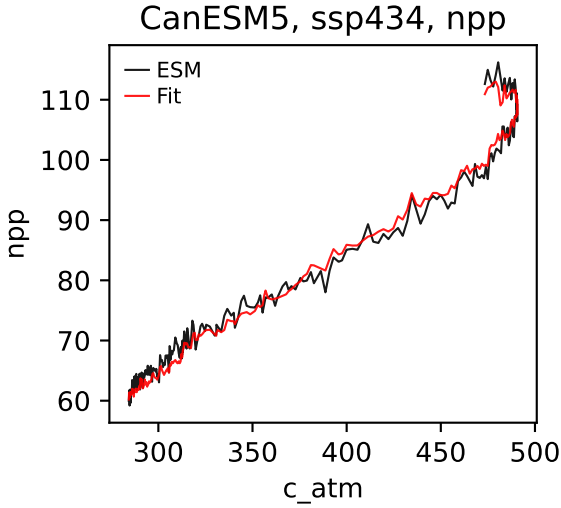

CanESM5, ssp434, sres, ln(MSE/SIGMA)
0748, 0.0000, 0.0000, 0.0000, 0.0766, 0.0235, 0.9697, 0.8326, 0.
sres_slow
sres_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
CanESM5
4.84
4.72
4.60
4.48
4.36
4.24
4.12
4.00
3.88
3.76

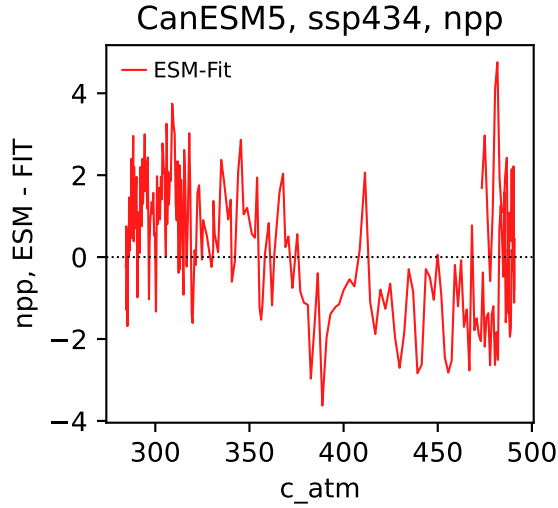

CanESM5, ssp434, npp
ESM
Fit
npp
Year

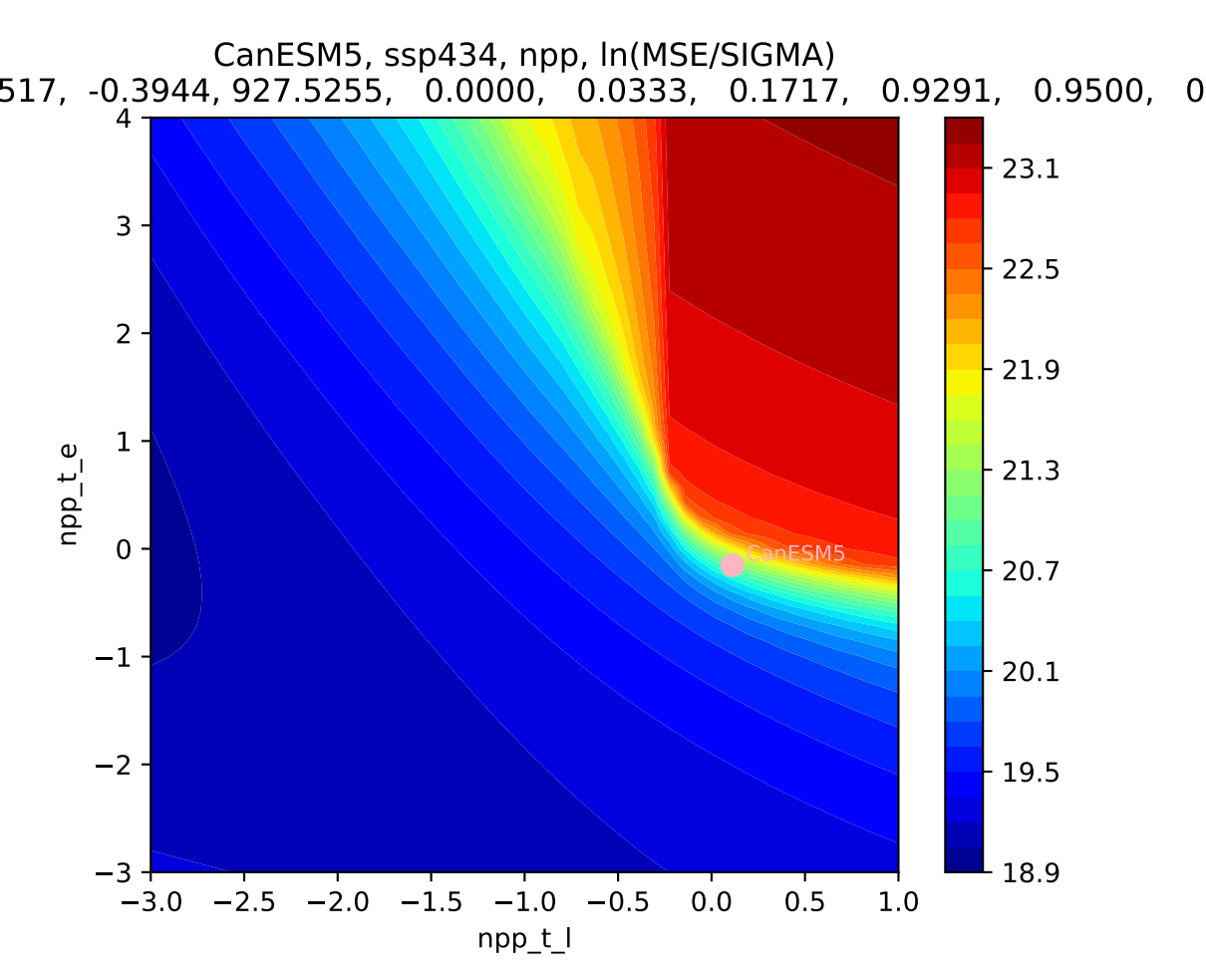

CanESM5, ssp434, npp
ESM-Fit
npp, ESM - FIT
Year

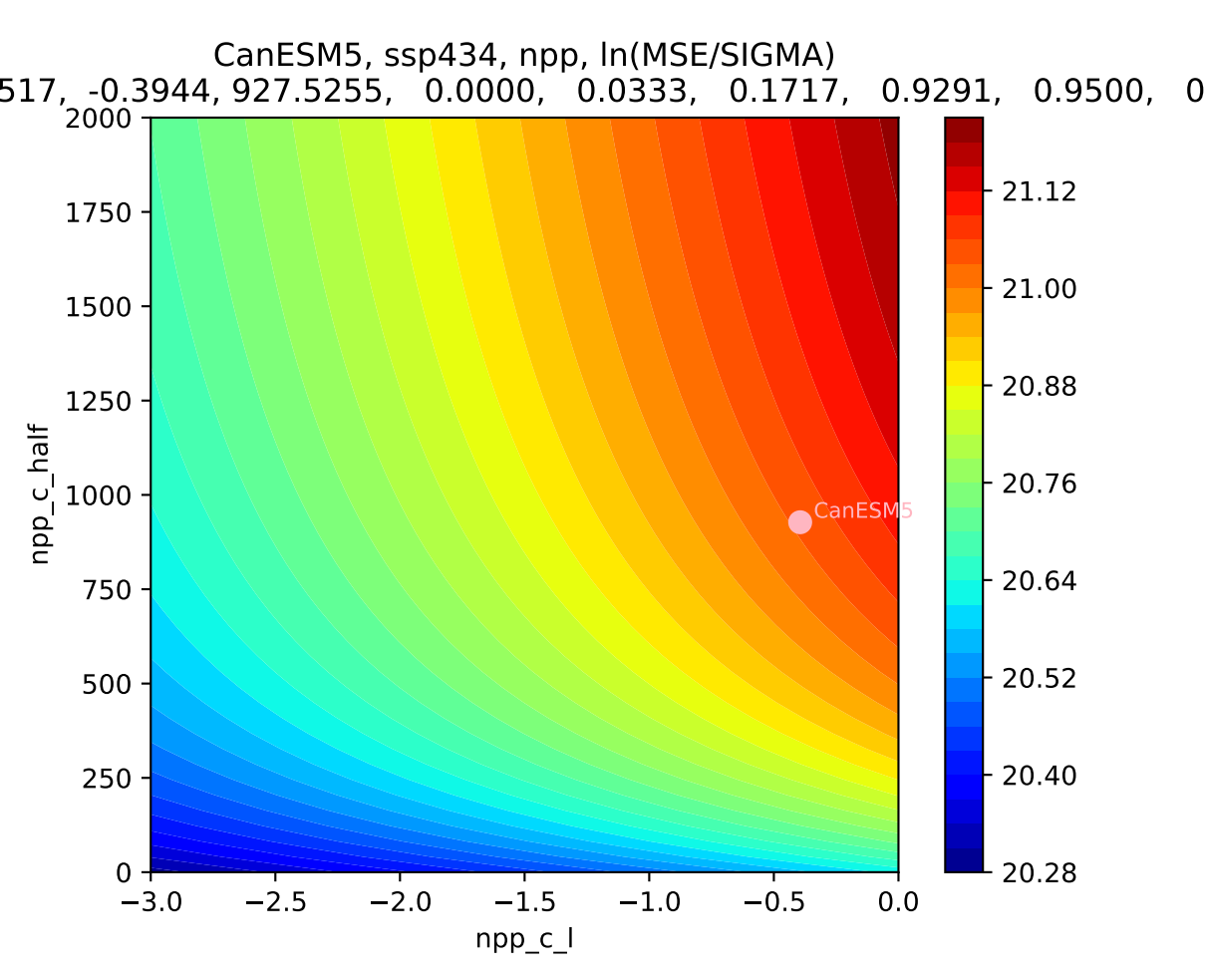

CanESM5, ssp434, npp
ESM
Fit
npp
ΔT

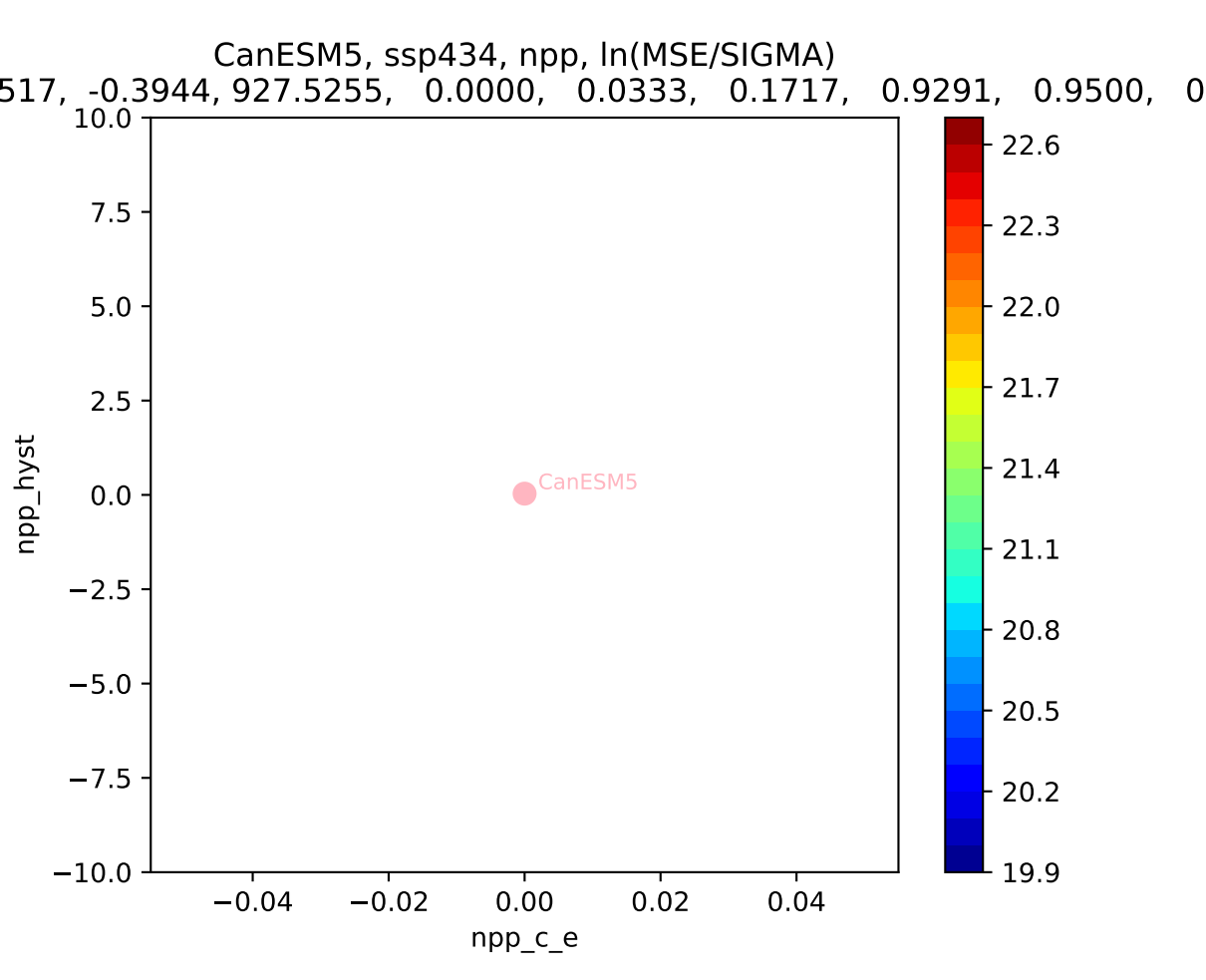

CanESM5, ssp434, npp
ESM-Fit
npp, ESM - FIT
ΔT

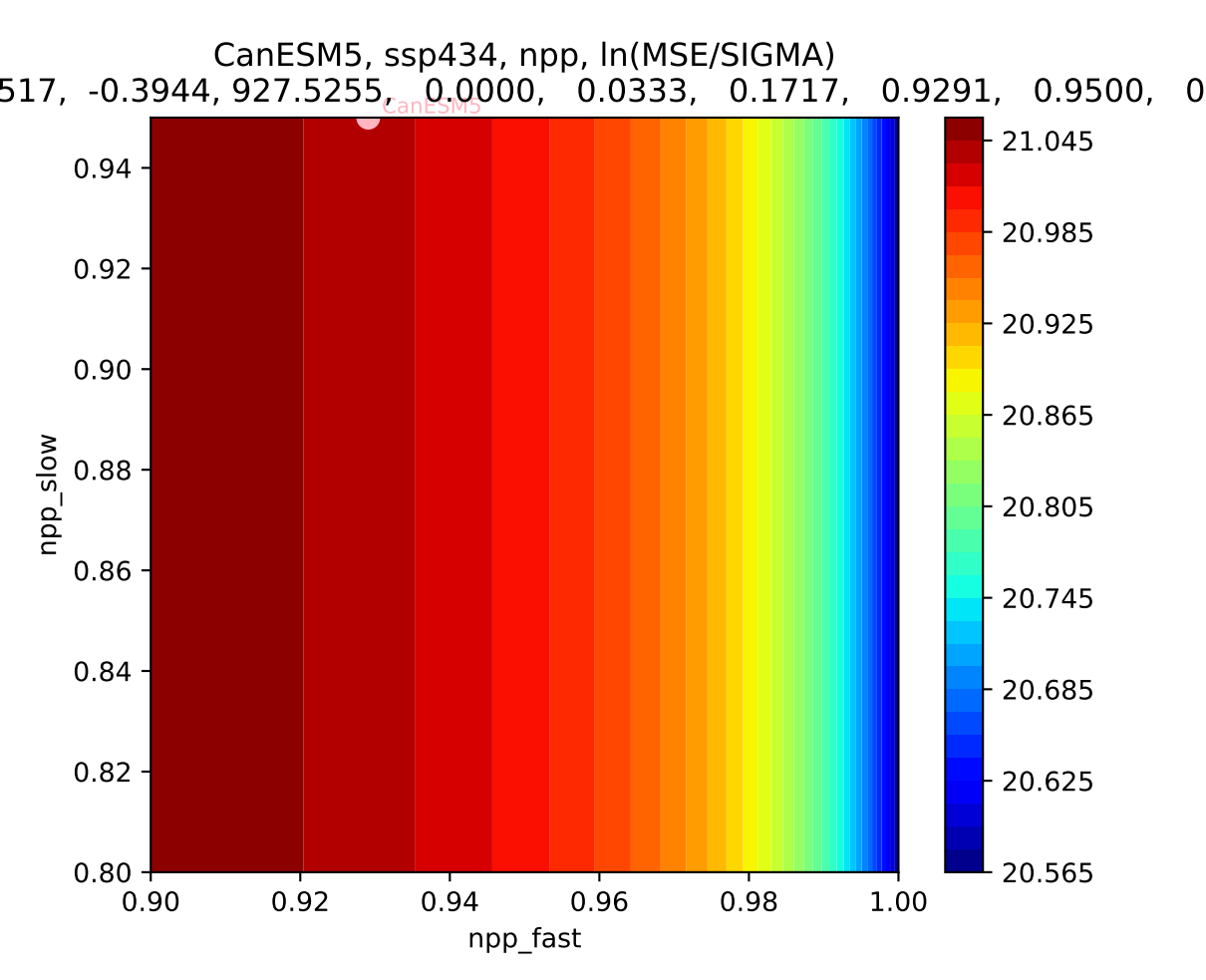

CanESM5, ssp434, npp
ESM
Fit
npp
c_atm


CanESM5, ssp434, npp
ESM-Fit
npp, ESM - FIT
c_atm


CanESM5, ssp434, npp, ln(MSE/SIGMA)
517, -0.3944, 927.5255, 0.0000, 0.0333, 0.1717, 0.9291, 0.9500, 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
23.1
22.5
21.9
21.3
20.7
20.1
19.5
18.9


CanESM5, ssp434, npp, ln(MSE/SIGMA)
517, -0.3944, 927.5255, 0.0000, 0.0333, 0.1717, 0.9291, 0.9500, 0
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
CanESM5
21.12
21.00
20.88
20.76
20.64
20.52
20.40
20.28
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
npp_c_l


CanESM5, ssp434, npp, ln(MSE/SIGMA)
517, -0.3944, 927.5255, 0.0000, 0.0333, 0.1717, 0.9291, 0.9500, 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
−0.04
−0.02
0.00
0.02
0.04
22.6
22.3
22.0
21.7
21.4
21.1
20.8
20.5
20.2
19.9


CanESM5, ssp434, npp, ln(MSE/SIGMA)
517, -0.3944, 927.5255, 0.0000, 0.0333, 0.1717, 0.9291, 0.9500, 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
21.045
20.985
20.925
20.865
20.805
20.745
20.685
20.625
20.565