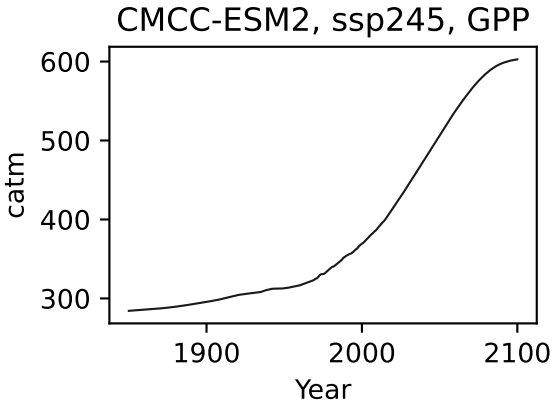
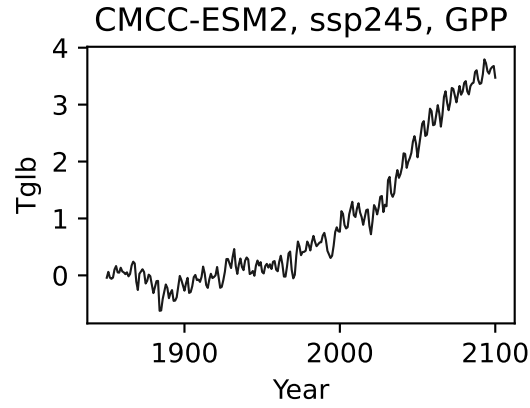
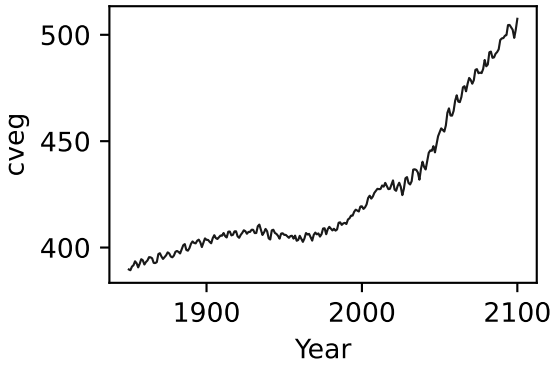
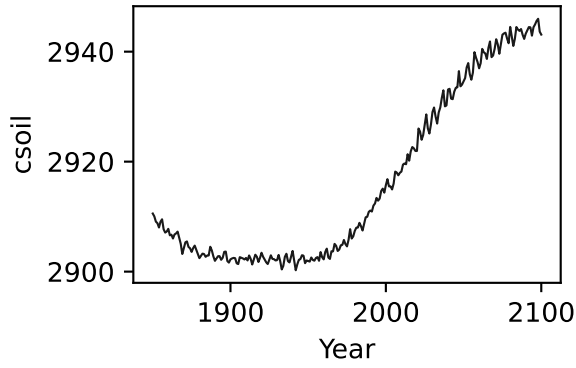
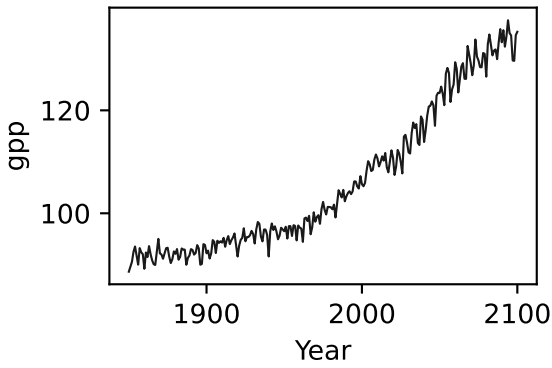
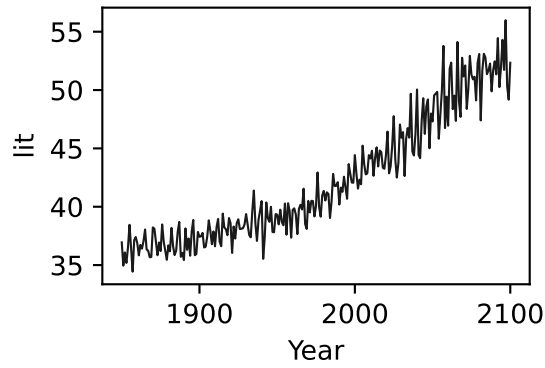

CMCC-ESM2, ssp245, GPP
catm
600
500
400
300
1900
2000
2100
Year

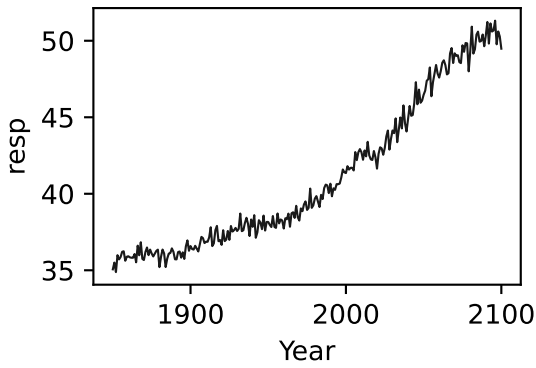

CMCC-ESM2, ssp245, GPP
Tglb
4
3
2
1
0
1900
2000
2100
Year

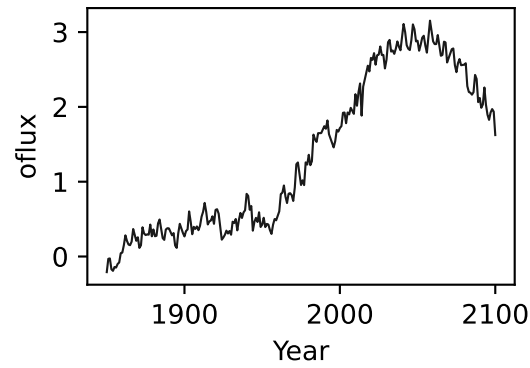

cveg
500
450
400
1900
2000
2100
Year

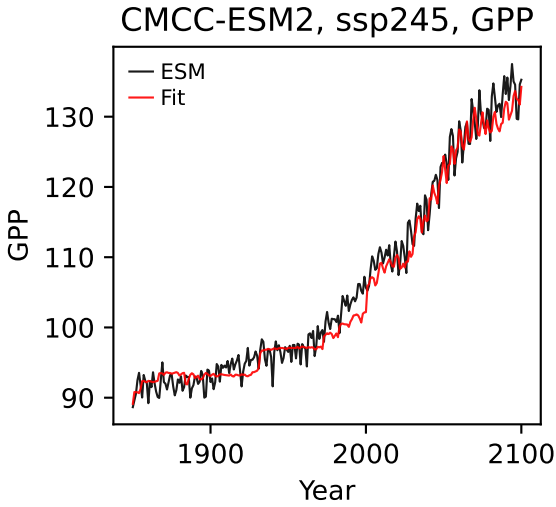

csoil
2940
2920
2900
1900
2000
2100
Year

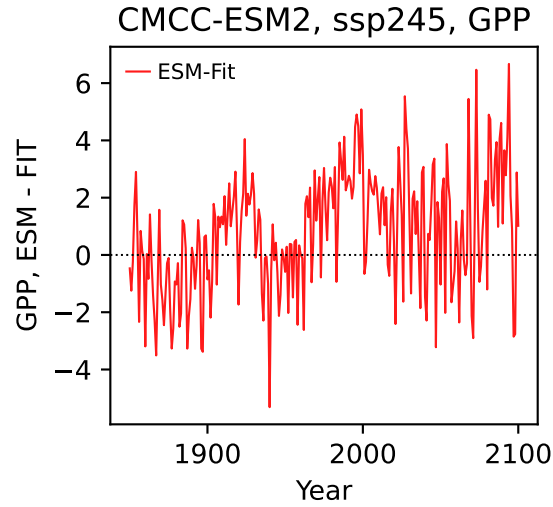

gpp
120
100
1900
2000
2100
Year

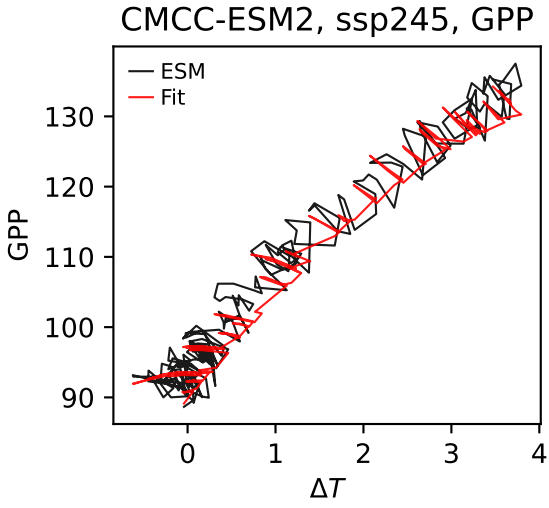

lit
55
50
45
40
35
1900
2000
2100
Year

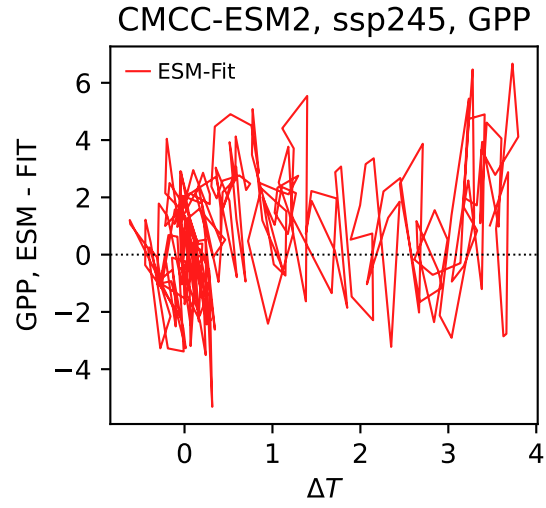

resp
50
45
40
35
1900
2000
2100
Year

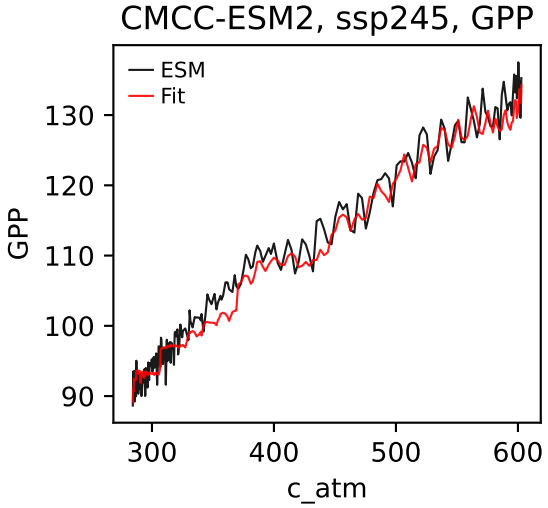

oflux
3
2
1
0
1900
2000
2100
Year

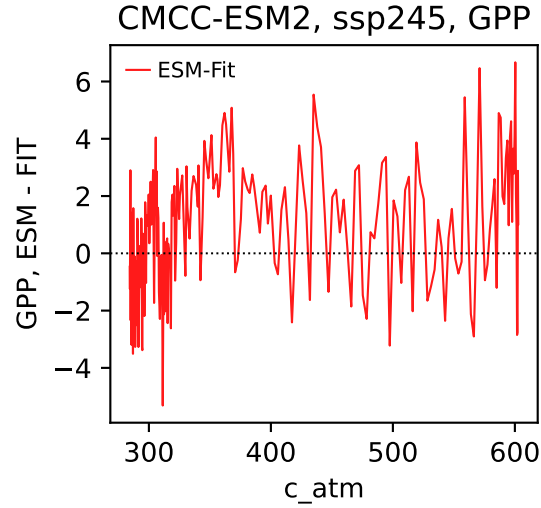

CMCC-ESM2, ssp245, GPP
ESM
Fit
GPP
Year

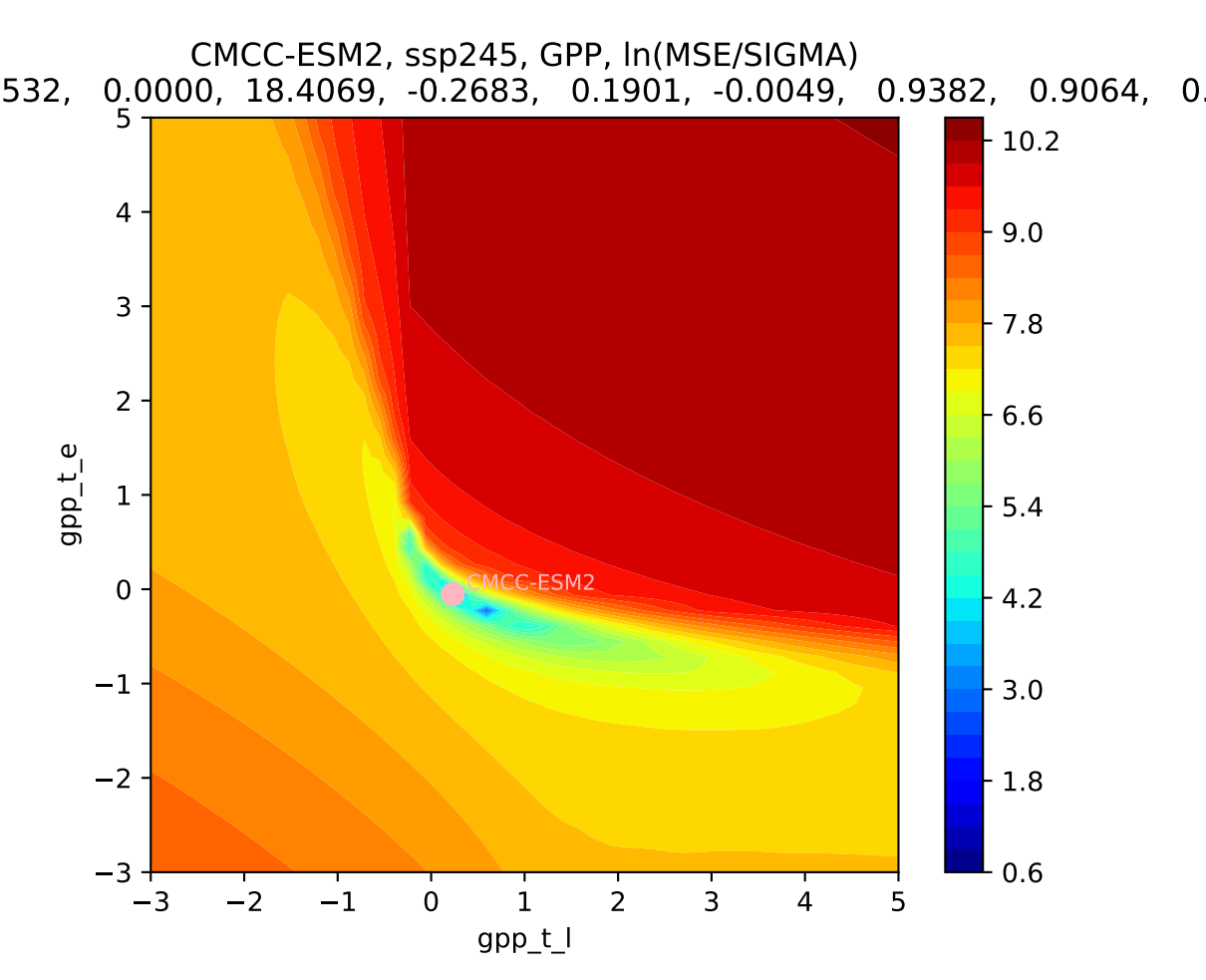

CMCC-ESM2, ssp245, GPP
ESM-Fit
GPP, ESM - FIT
Year

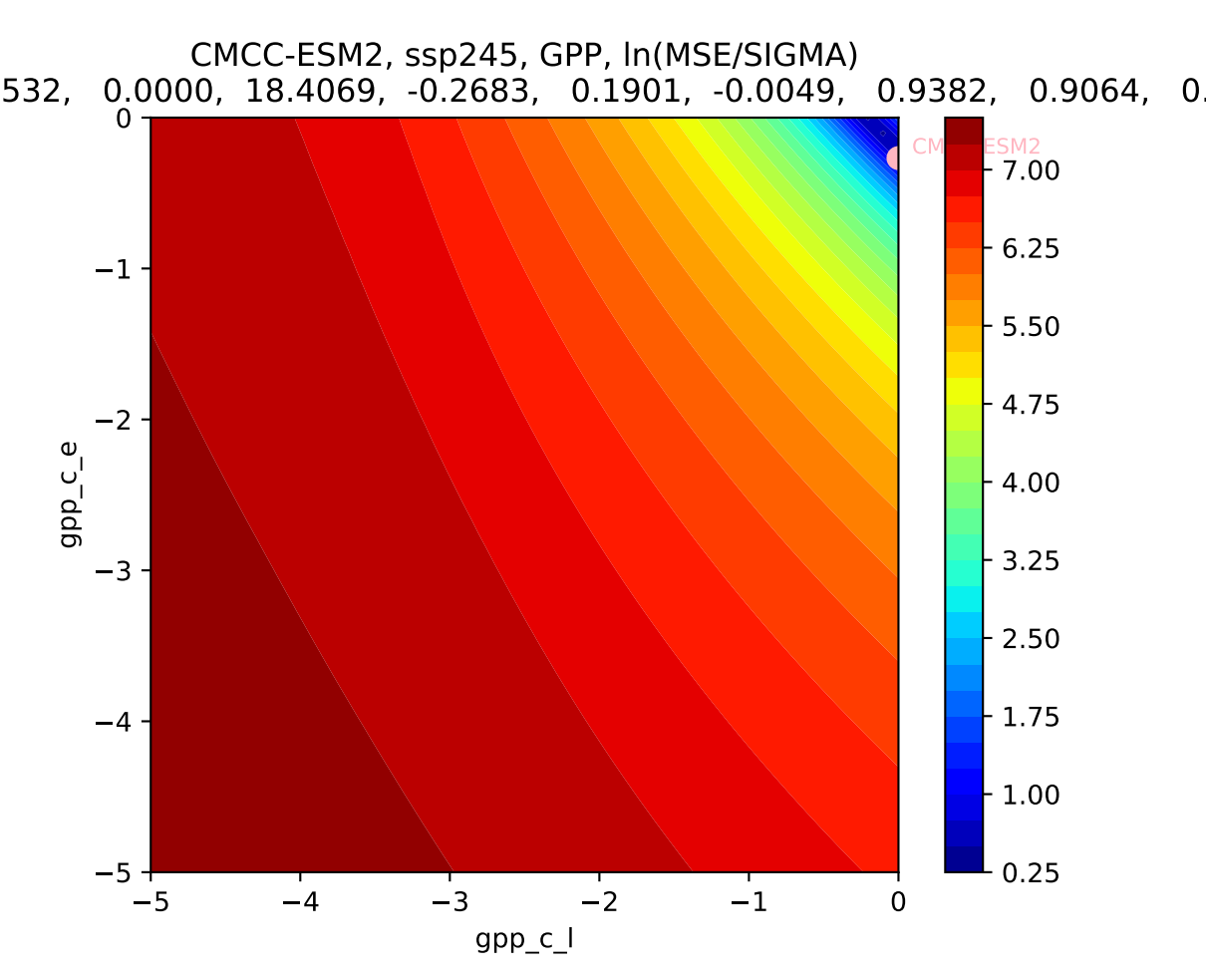

CMCC-ESM2, ssp245, GPP
ESM
Fit
GPP
ΔT

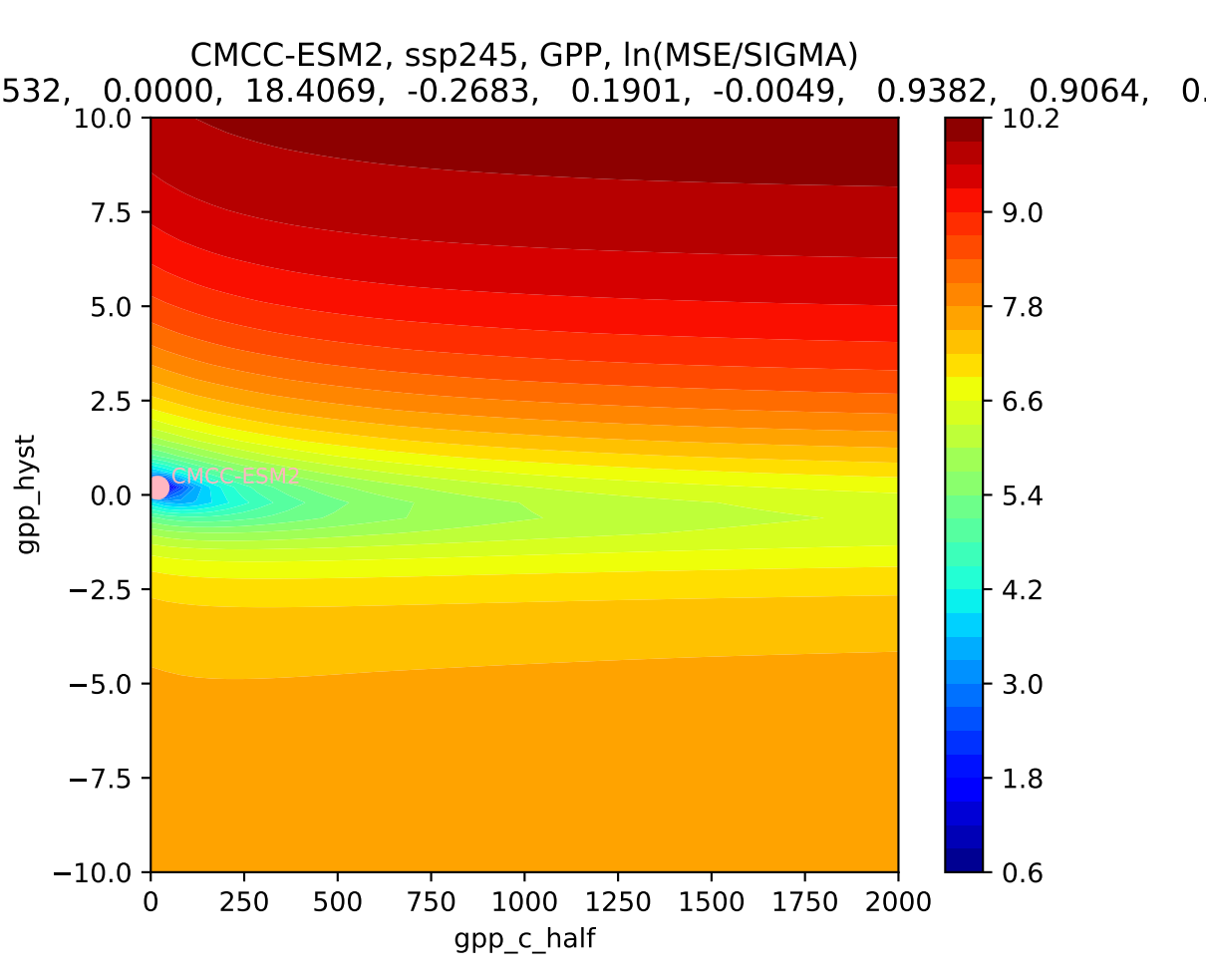

CMCC-ESM2, ssp245, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

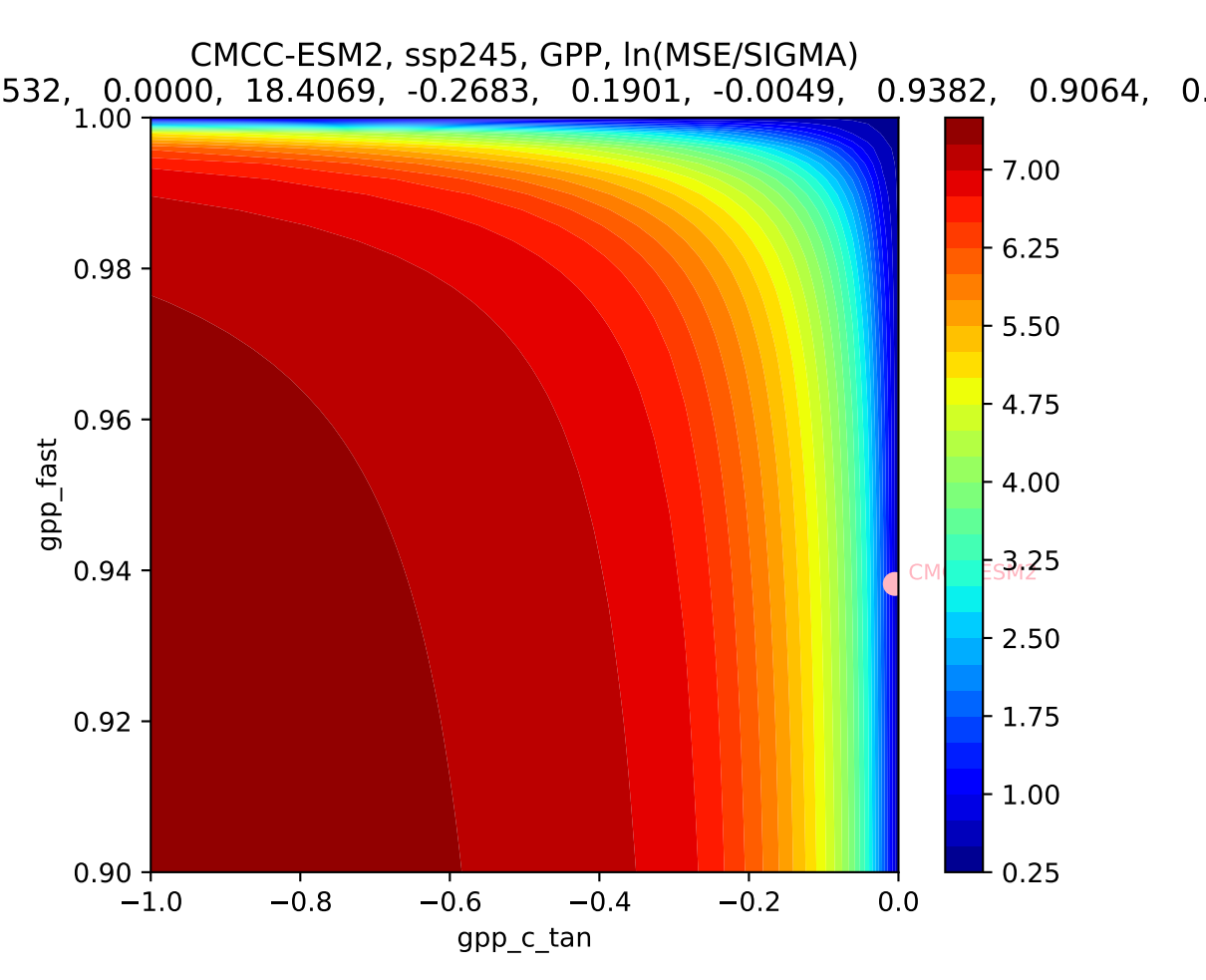

CMCC-ESM2, ssp245, GPP
ESM
Fit
GPP
c_atm

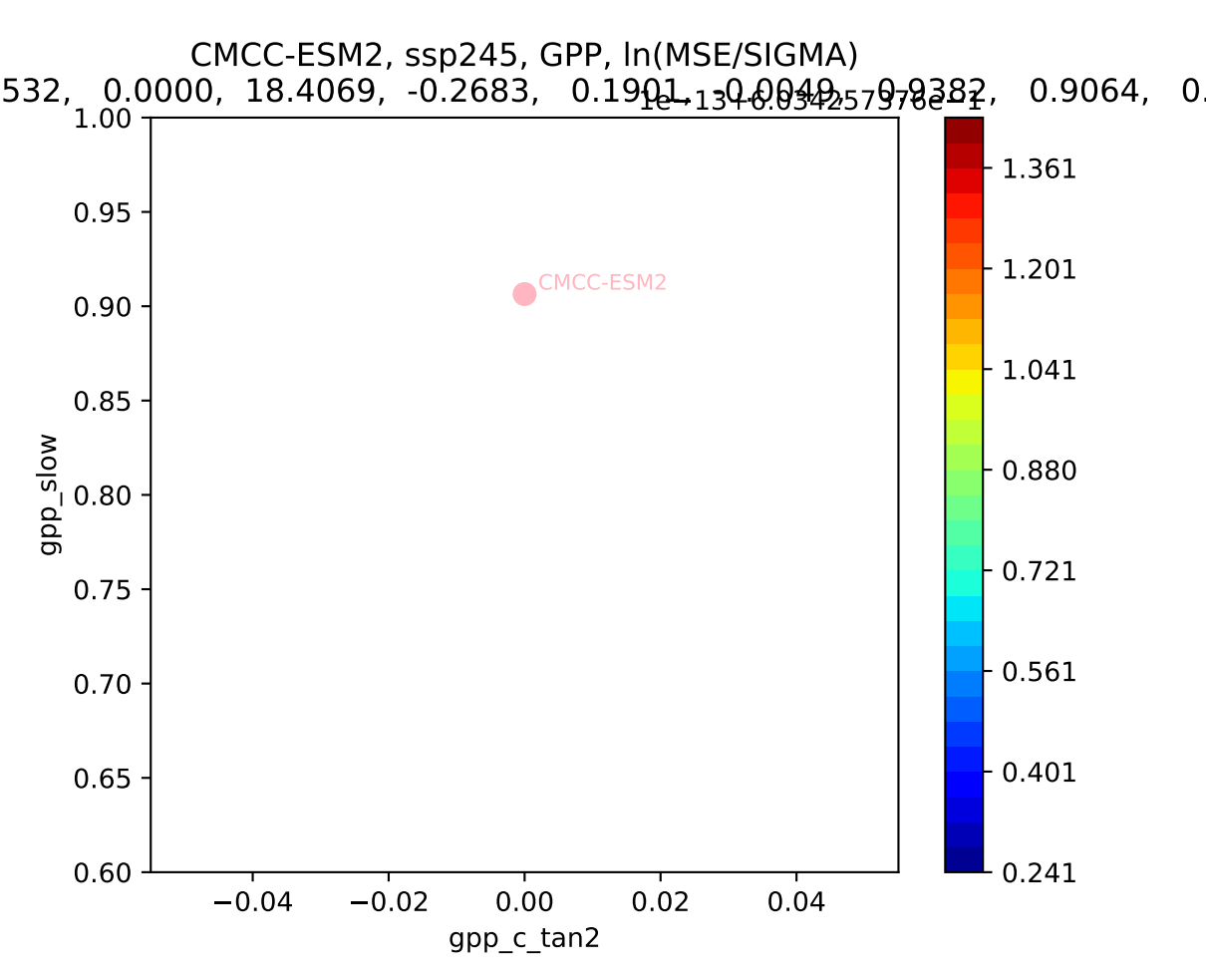

CMCC-ESM2, ssp245, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

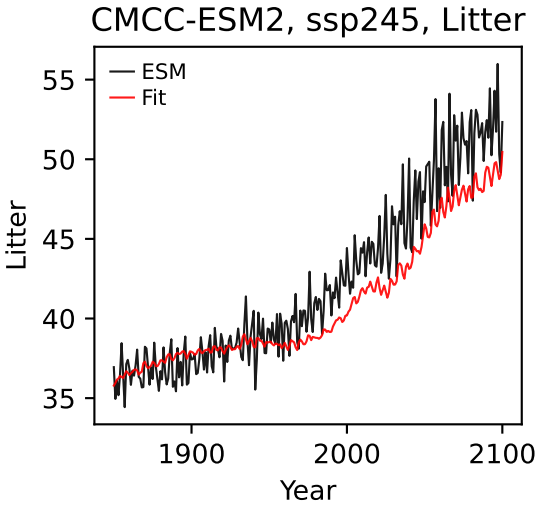

CMCC-ESM2, ssp245, GPP, ln(MSE/SIGMA)
532, 0.0000, 18.4069, -0.2683, 0.1901, -0.0049, 0.9382, 0.9064, 0.
CMCC-ESM2
gpp_t_e
gpp_t_l
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6

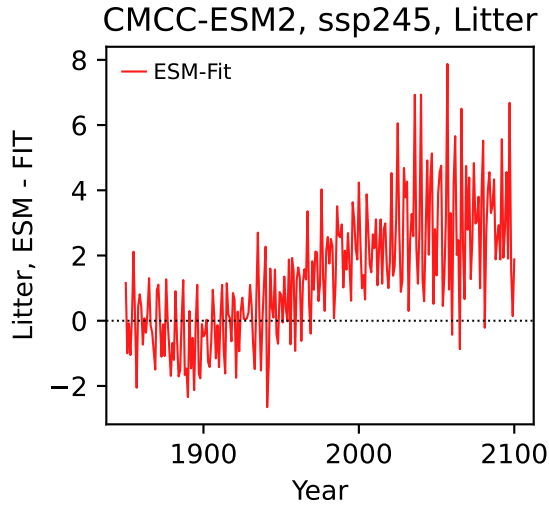

CMCC-ESM2, ssp245, GPP, ln(MSE/SIGMA)
532, 0.0000, 18.4069, -0.2683, 0.1901, -0.0049, 0.9382, 0.9064, 0.
gpp_c_e
gpp_c_l
0
−1
−2
−3
−4
−5
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00
0.25

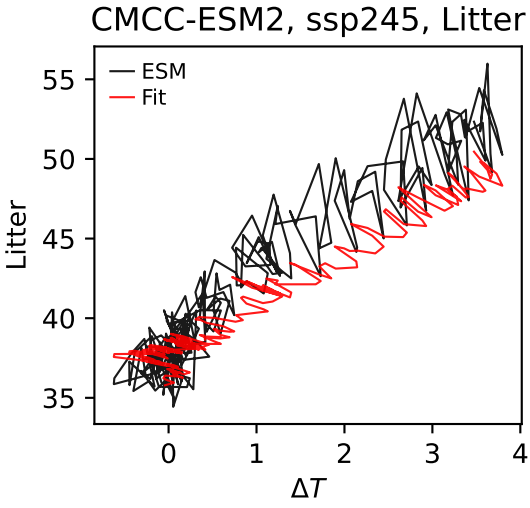

CMCC-ESM2, ssp245, GPP, ln(MSE/SIGMA)
532, 0.0000, 18.4069, -0.2683, 0.1901, -0.0049, 0.9382, 0.9064, 0.
CMCC-ESM2
gpp_hyst
gpp_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6

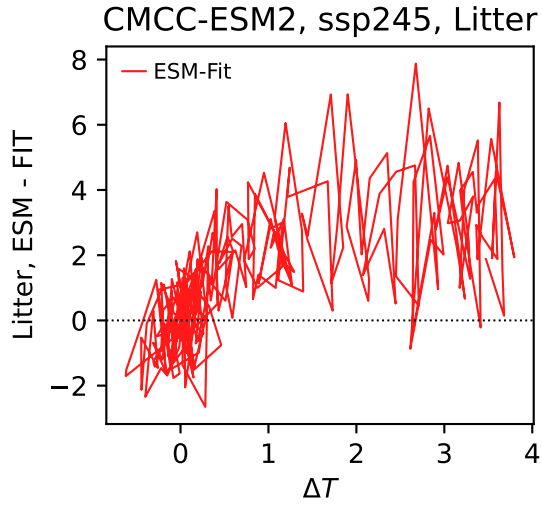

CMCC-ESM2, ssp245, GPP, ln(MSE/SIGMA)
532, 0.0000, 18.4069, -0.2683, 0.1901, -0.0049, 0.9382, 0.9064, 0.
gpp_fast
gpp_c_tan
1.00
0.98
0.96
0.94
0.92
0.90
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00
0.25

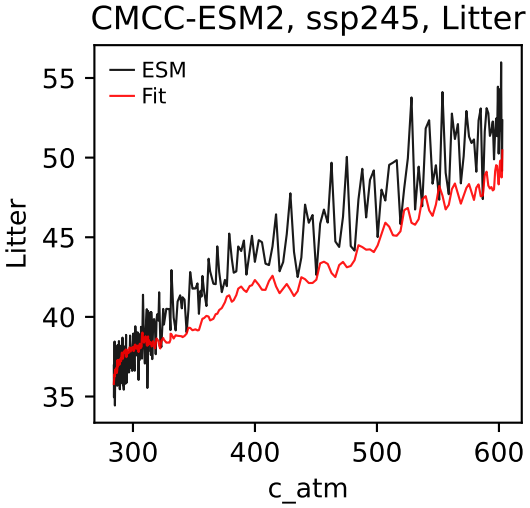

CMCC-ESM2, ssp245, GPP, ln(MSE/SIGMA)
532, 0.0000, 18.4069, -0.2683, 0.1901, -0.0049, -0.9382, 0.9064, 0.
1e−13+6.034257576e−1
CMCC-ESM2
gpp_slow
gpp_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
1.361
1.201
1.041
0.880
0.721
0.561
0.401
0.241

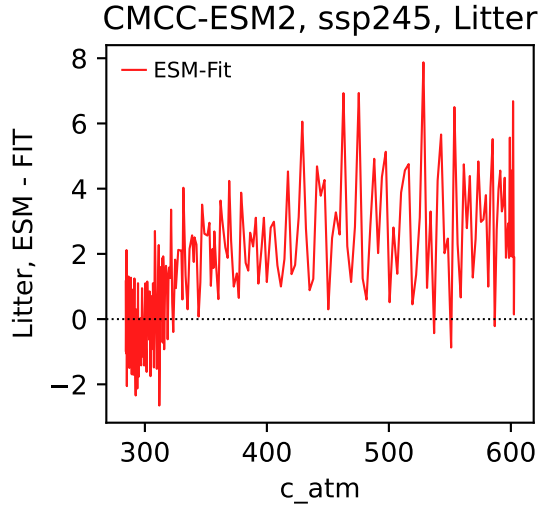

CMCC-ESM2, ssp245, Litter
ESM
Fit
Litter
Year

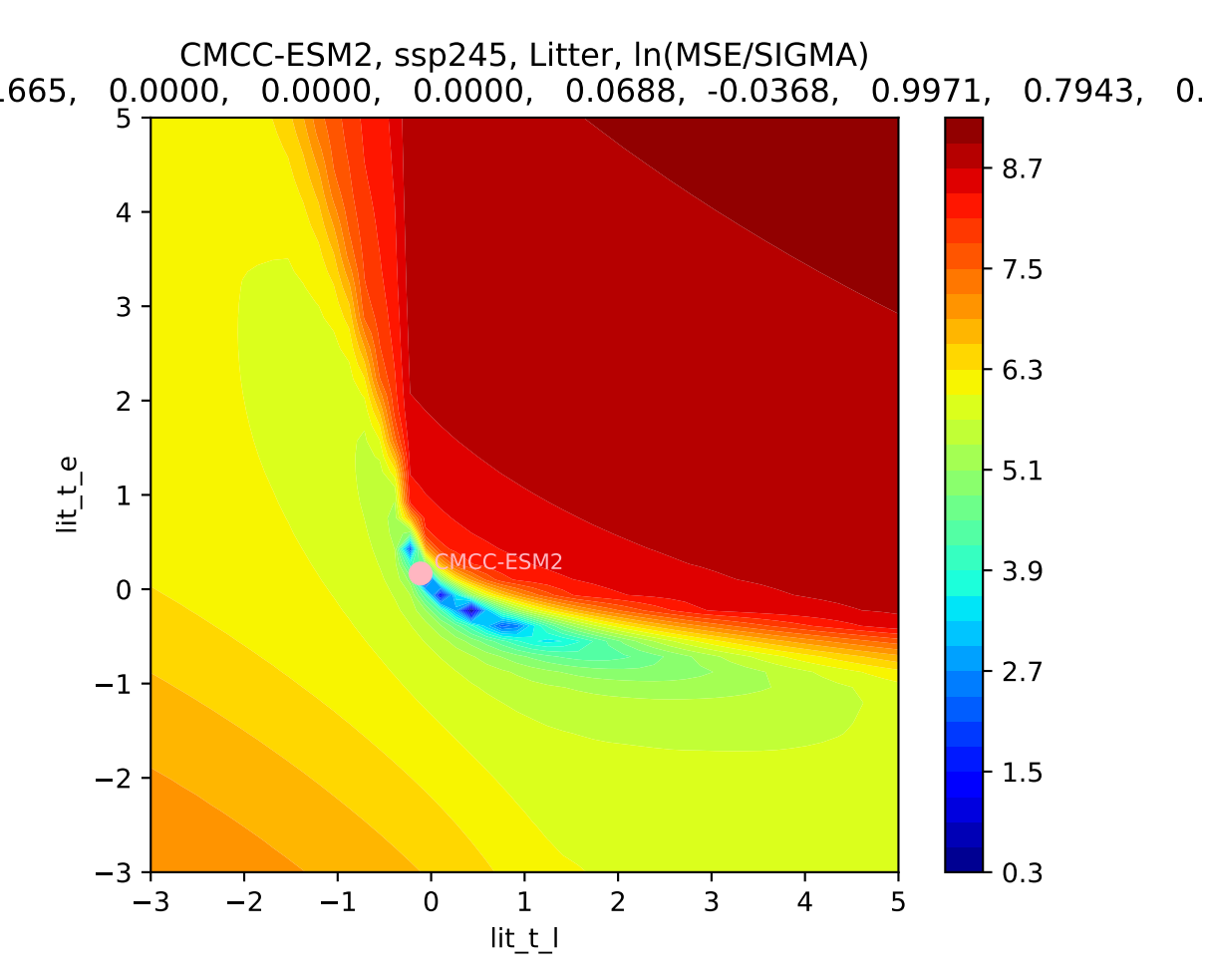

CMCC-ESM2, ssp245, Litter
ESM-Fit
Litter, ESM - FIT
Year

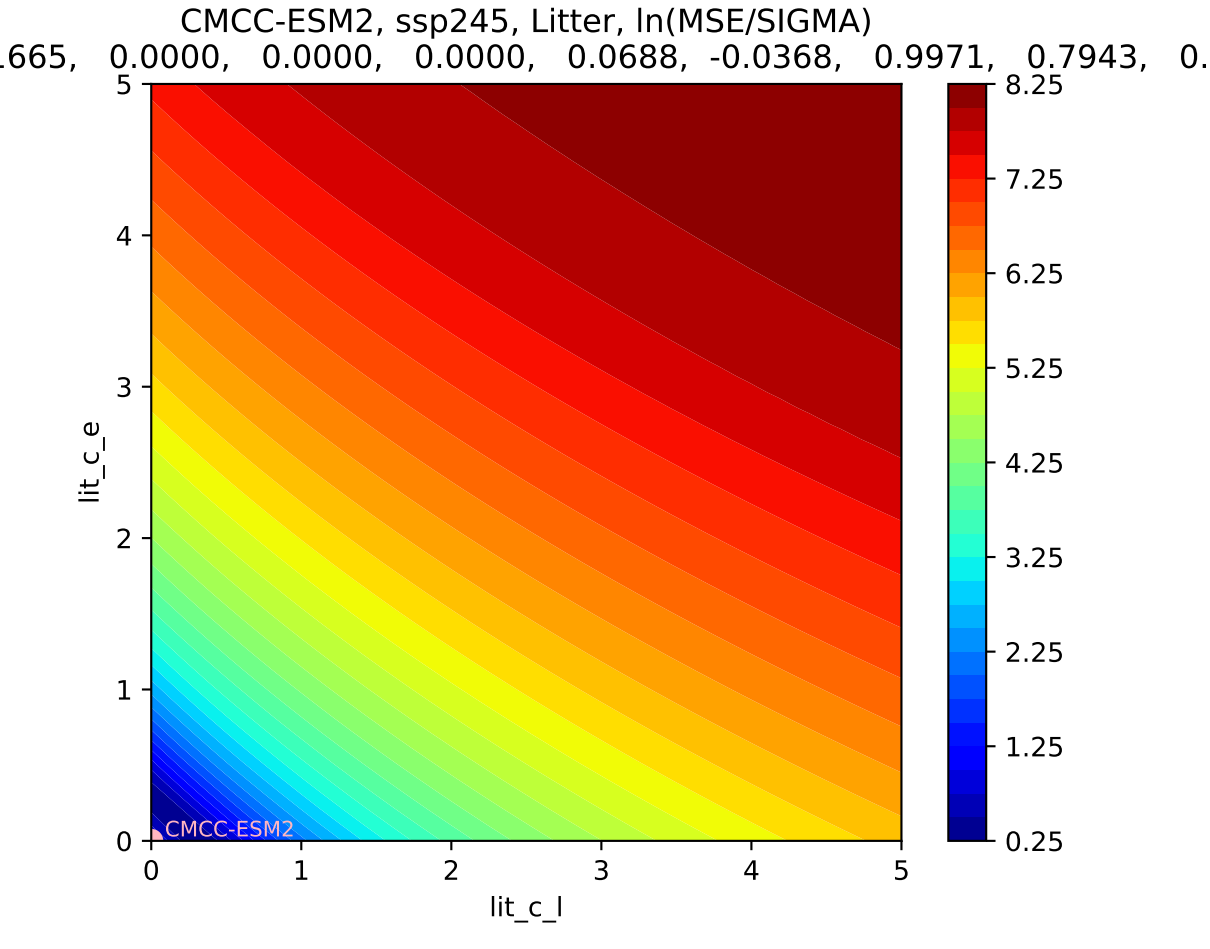

CMCC-ESM2, ssp245, Litter
ESM
Fit
Litter
ΔT

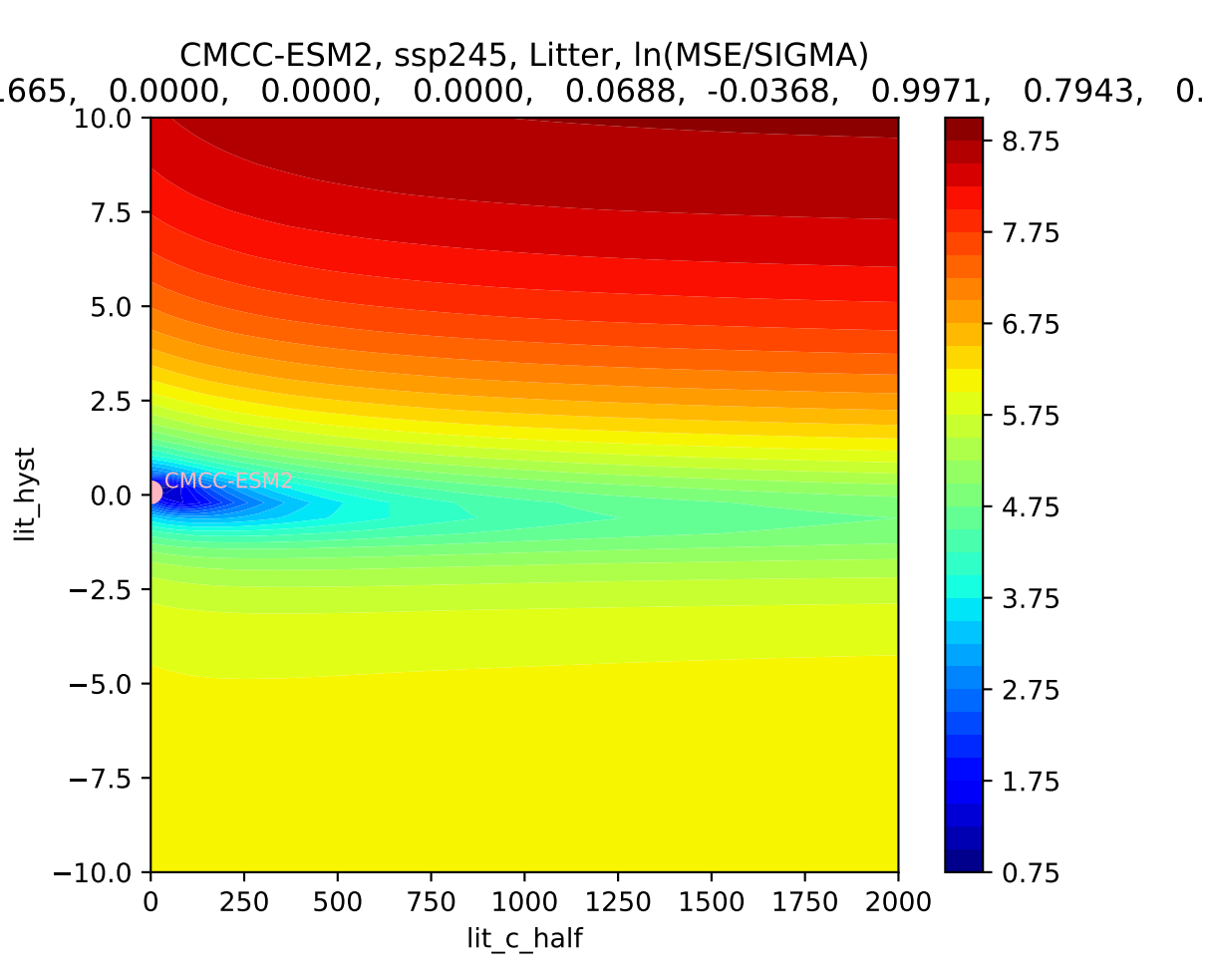

CMCC-ESM2, ssp245, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

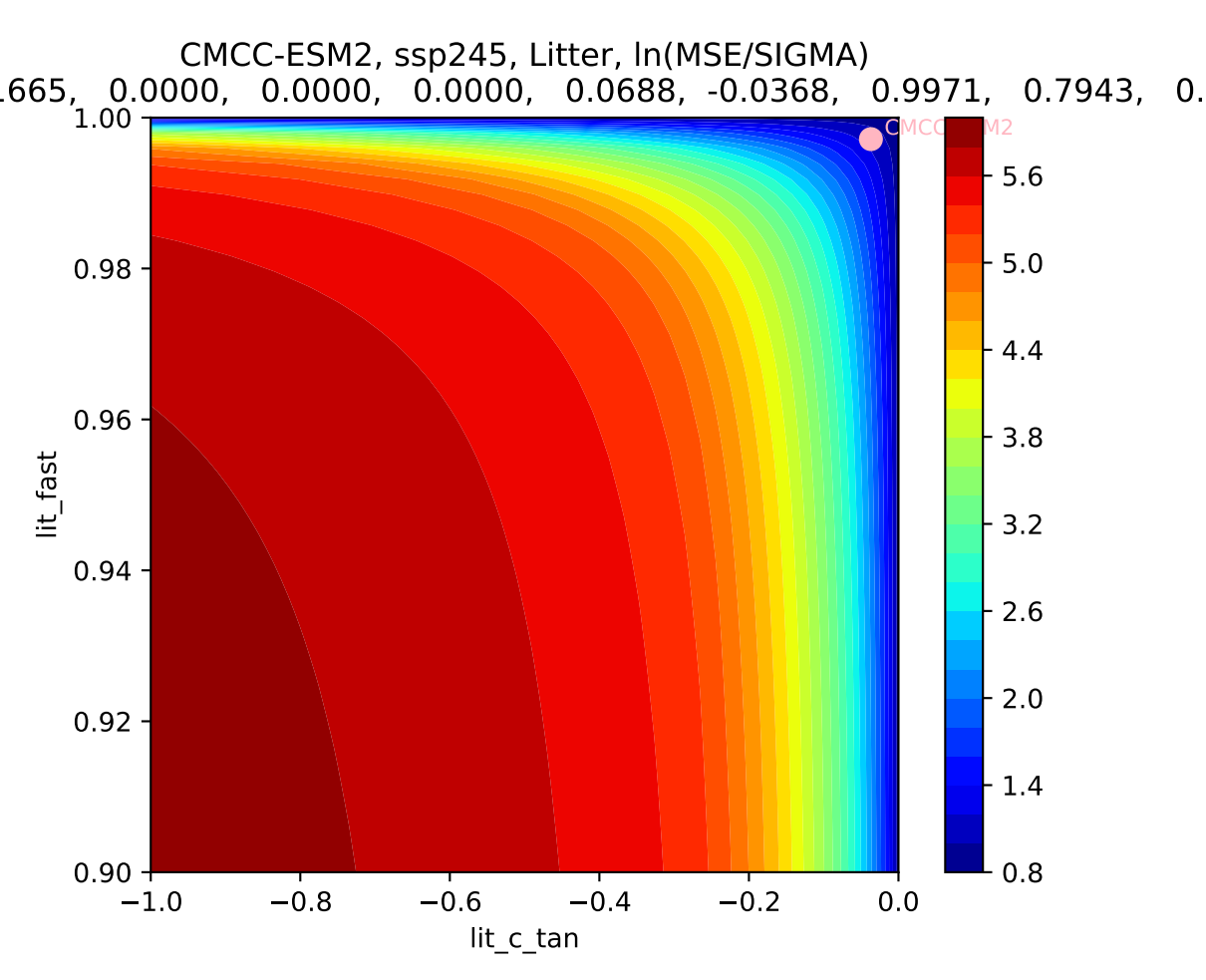

CMCC-ESM2, ssp245, Litter
ESM
Fit
Litter
c_atm

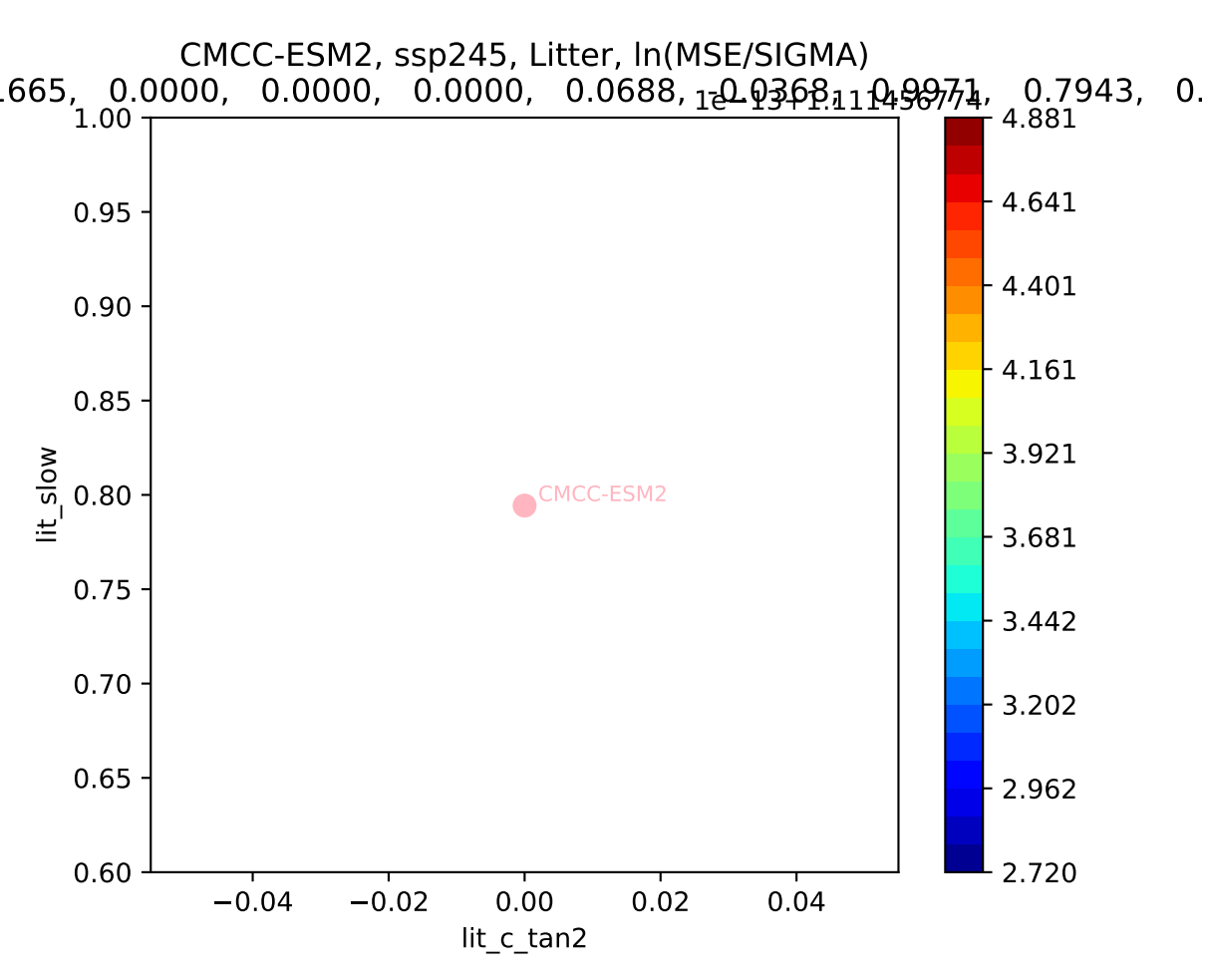

CMCC-ESM2, ssp245, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

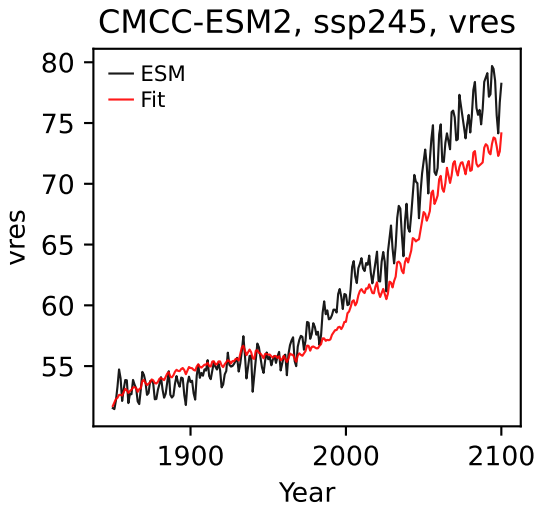

CMCC-ESM2, ssp245, Litter, ln(MSE/SIGMA)
1665, 0.0000, 0.0000, 0.0000, 0.0688, -0.0368, 0.9971, 0.7943, 0.
lit_t_e
lit_t_l
CMCC-ESM2
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

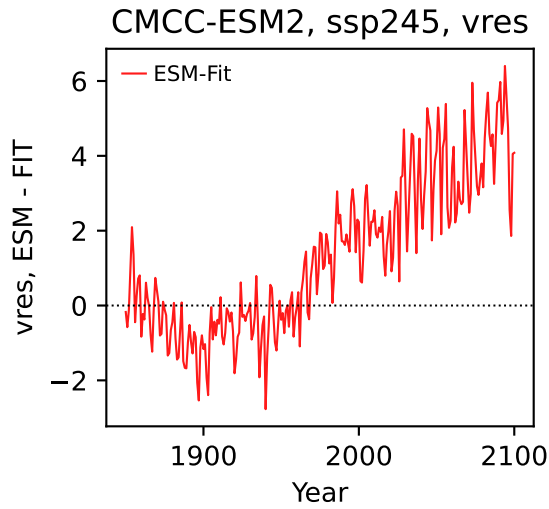

CMCC-ESM2, ssp245, Litter, ln(MSE/SIGMA)
1665, 0.0000, 0.0000, 0.0000, 0.0688, -0.0368, 0.9971, 0.7943, 0.
lit_c_e
lit_c_l
CMCC-ESM2
0
1
2
3
4
5
8.25
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

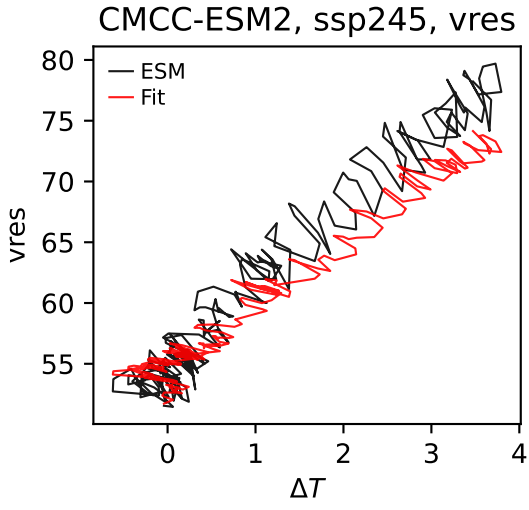

CMCC-ESM2, ssp245, Litter, ln(MSE/SIGMA)
1665, 0.0000, 0.0000, 0.0000, 0.0688, -0.0368, 0.9971, 0.7943, 0.
CMCC-ESM2
lit_hyst
lit_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
8.75
7.75
6.75
5.75
4.75
3.75
2.75
1.75
0.75

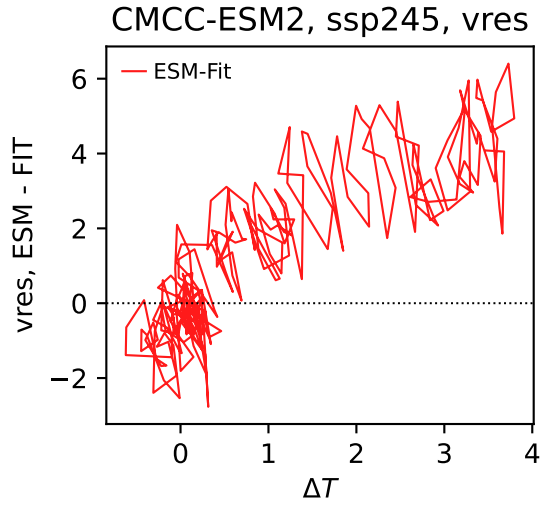

CMCC-ESM2, ssp245, Litter, ln(MSE/SIGMA)
1665, 0.0000, 0.0000, 0.0000, 0.0688, -0.0368, 0.9971, 0.7943, 0.
CMCC-ESM2
lit_fast
lit_c_tan
1.00
0.98
0.96
0.94
0.92
0.90
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
5.6
5.0
4.4
3.8
3.2
2.6
2.0
1.4
0.8

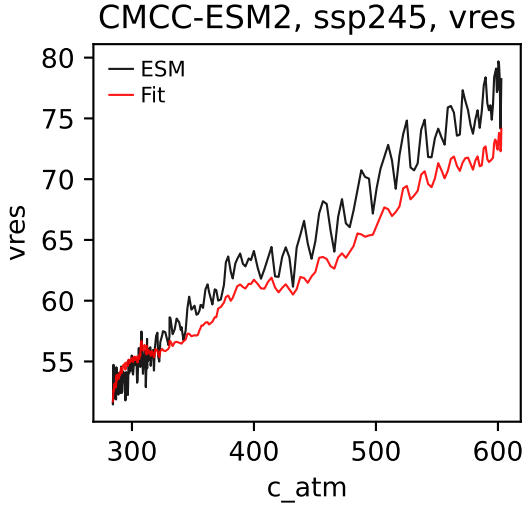

CMCC-ESM2, ssp245, Litter, ln(MSE/SIGMA)
1665, 0.0000, 0.0000, 0.0000, 0.0688, -0.0368, 0.9971, 0.7943, 0.
1e−13+1.11145e774
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
lit_slow
CMCC-ESM2
−0.04
−0.02
0.00
0.02
0.04
lit_c_tan2
4.881
4.641
4.401
4.161
3.921
3.681
3.442
3.202
2.962
2.720

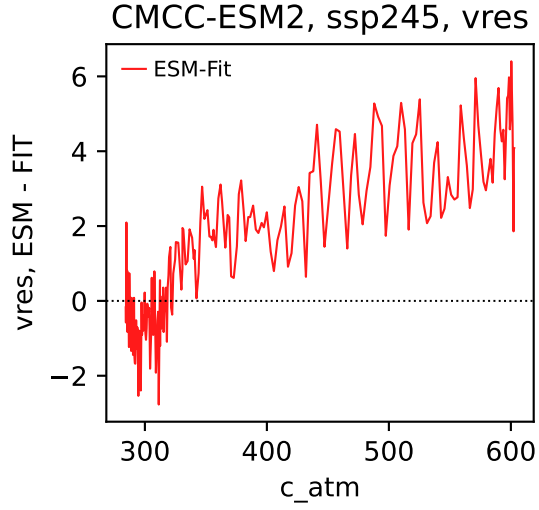

CMCC-ESM2, ssp245, vres
ESM
Fit
vres
Year

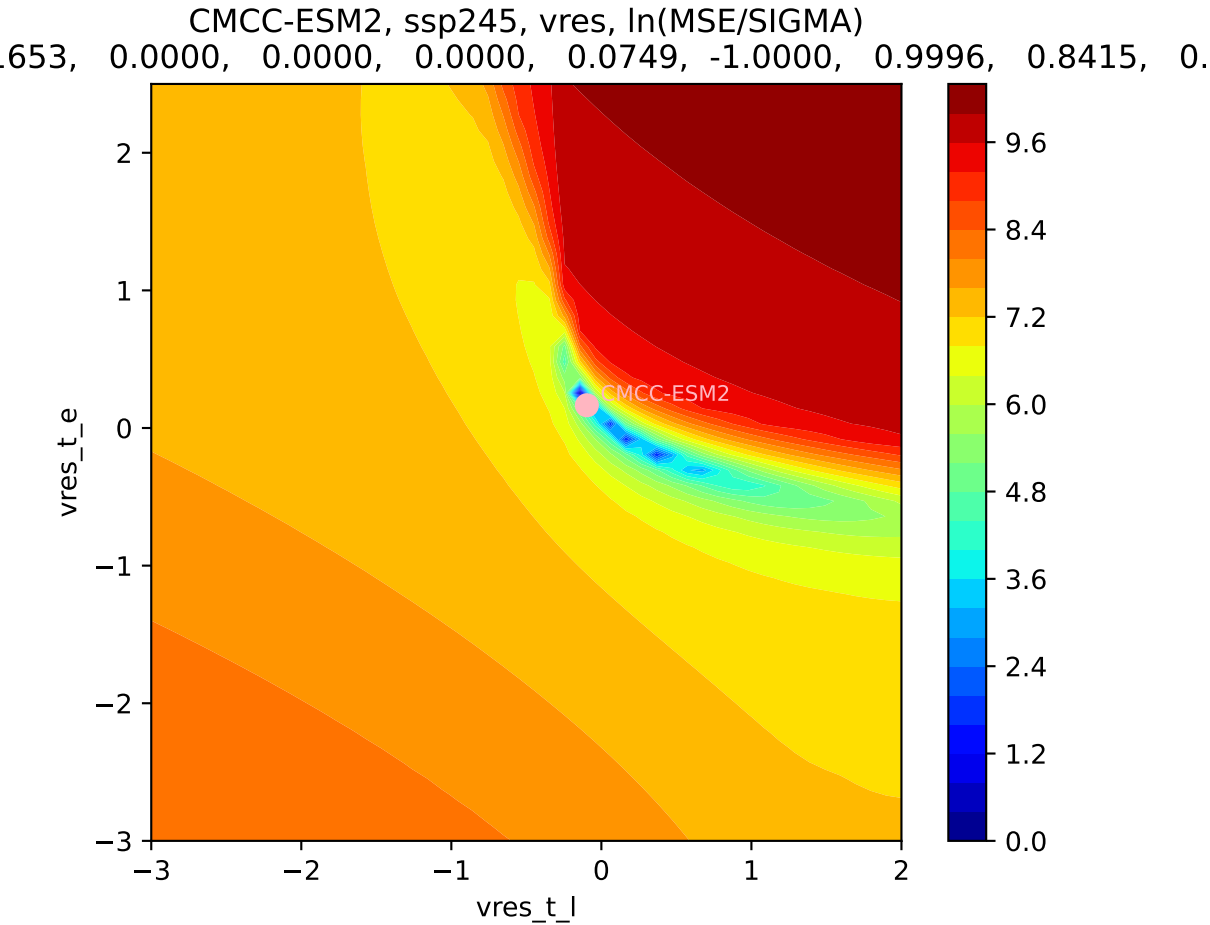

CMCC-ESM2, ssp245, vres
ESM-Fit
vres, ESM - FIT
Year

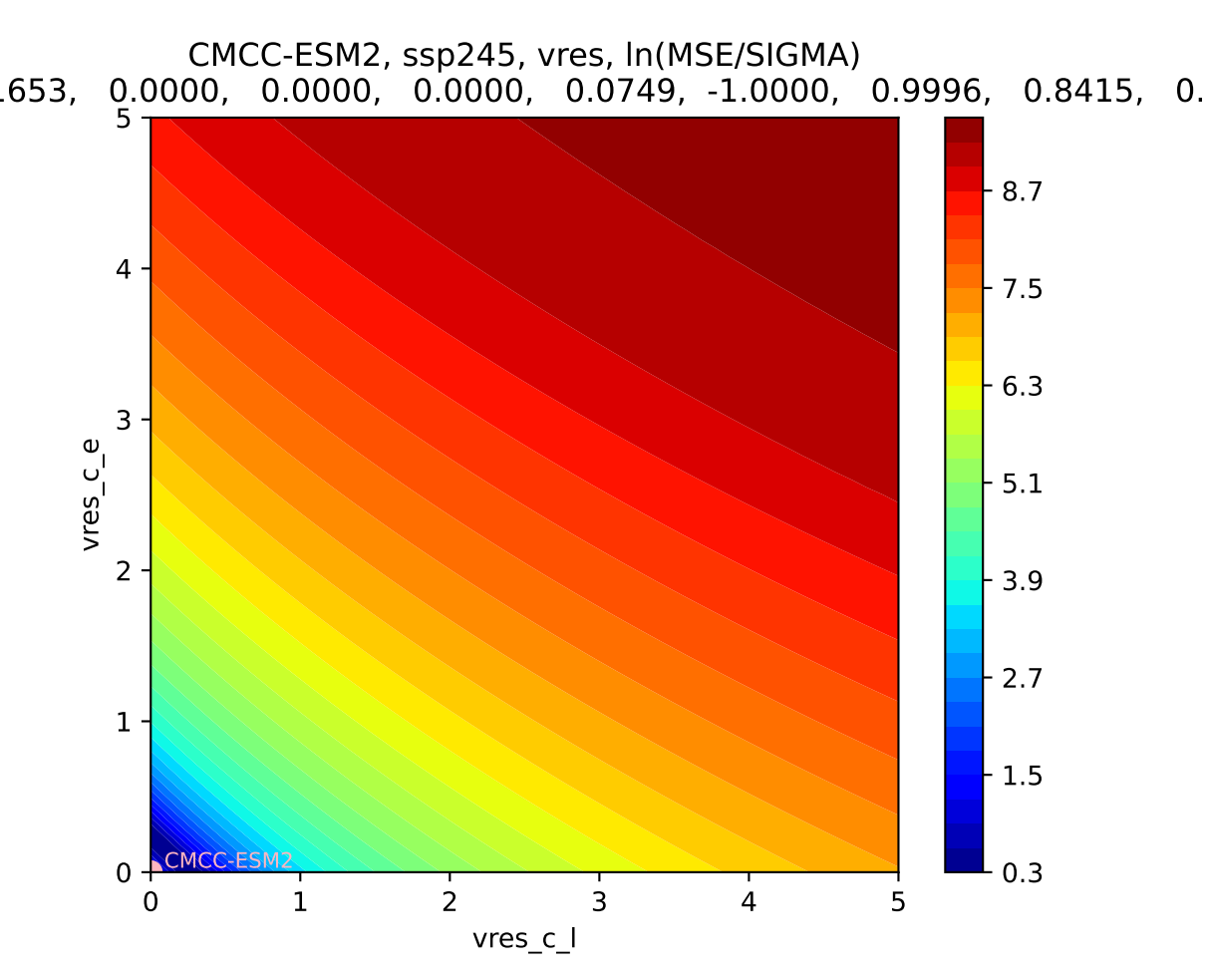

CMCC-ESM2, ssp245, vres
ESM
Fit
vres
ΔT

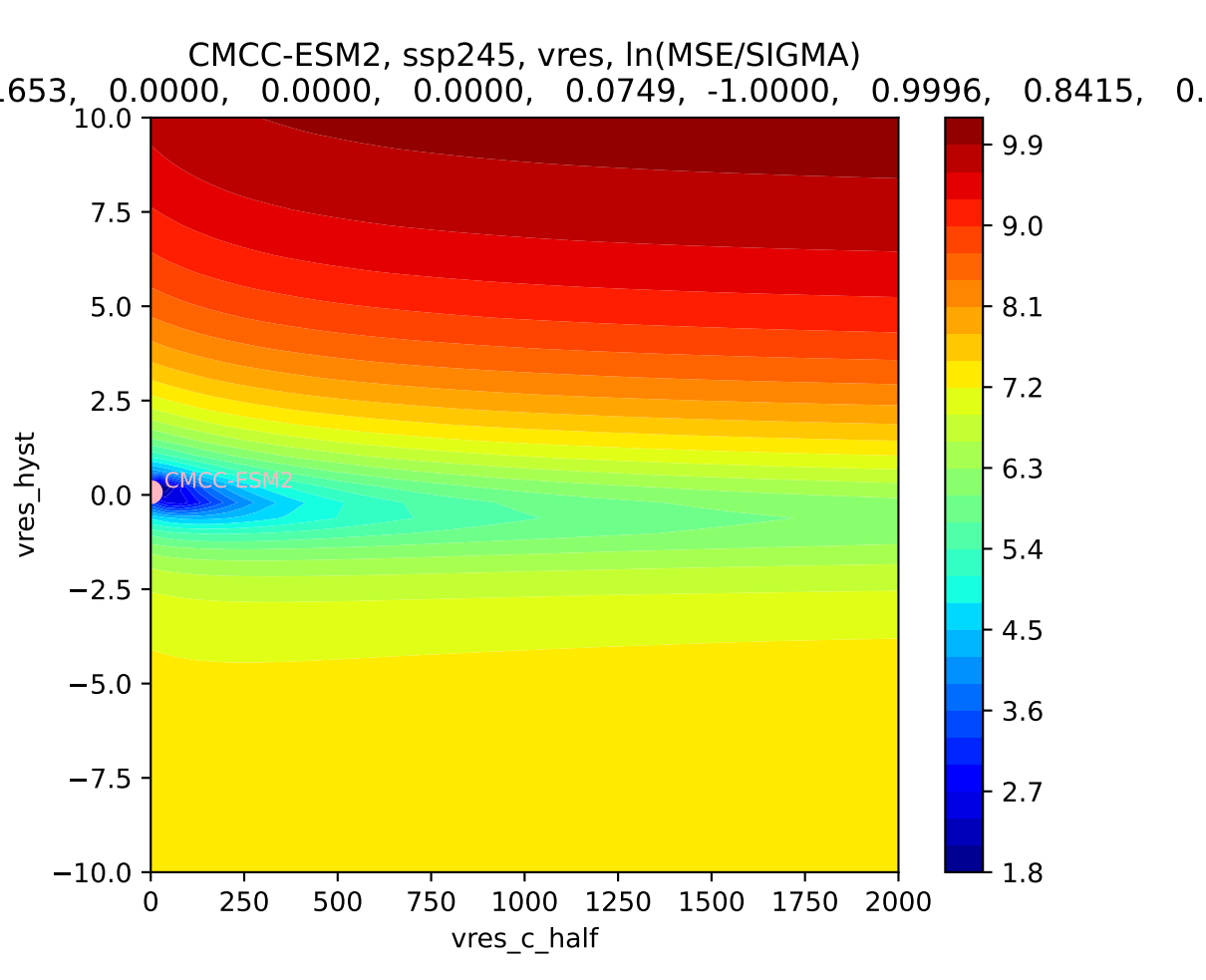

CMCC-ESM2, ssp245, vres
ESM-Fit
vres, ESM - FIT
ΔT

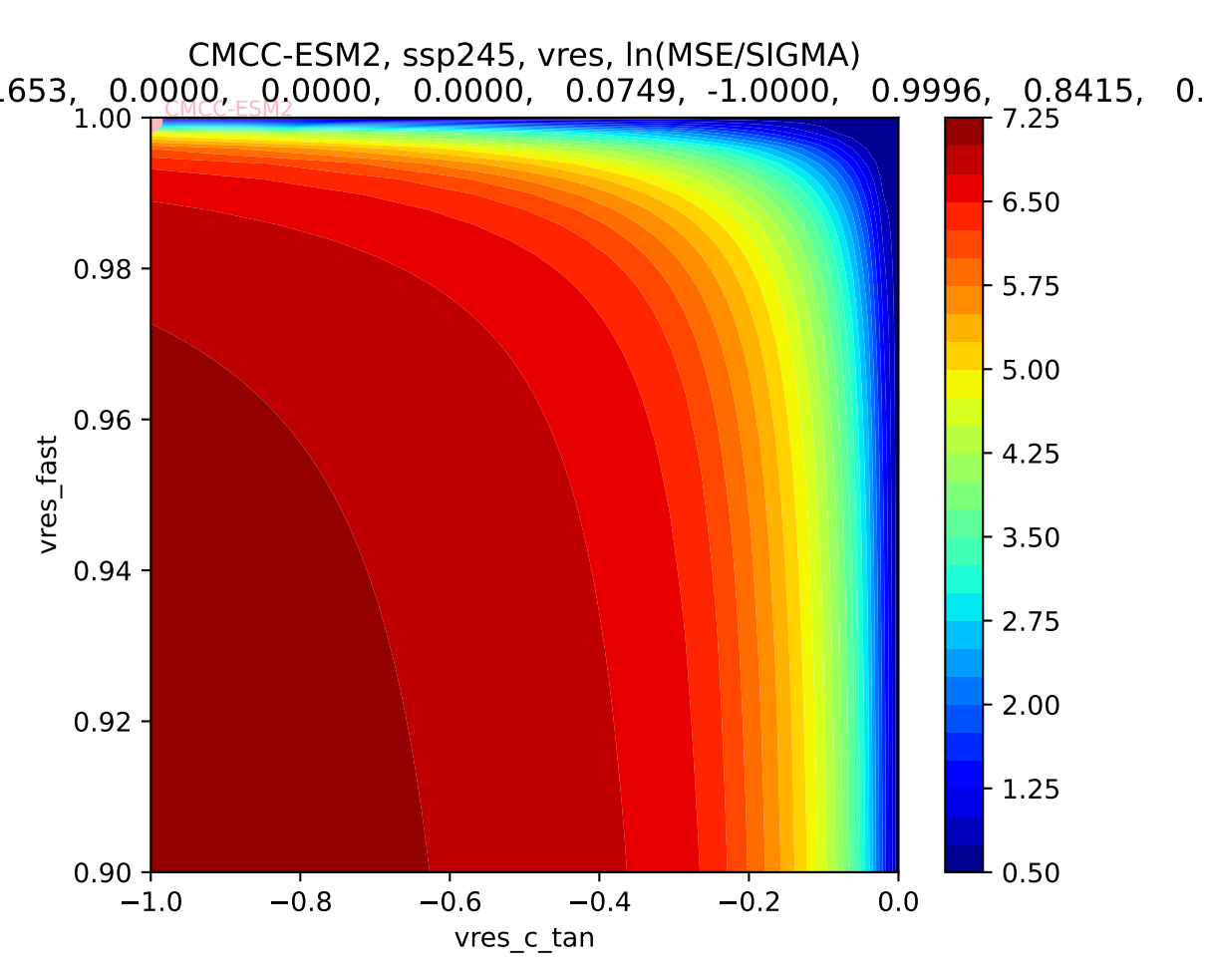

CMCC-ESM2, ssp245, vres
ESM
Fit
vres
c_atm

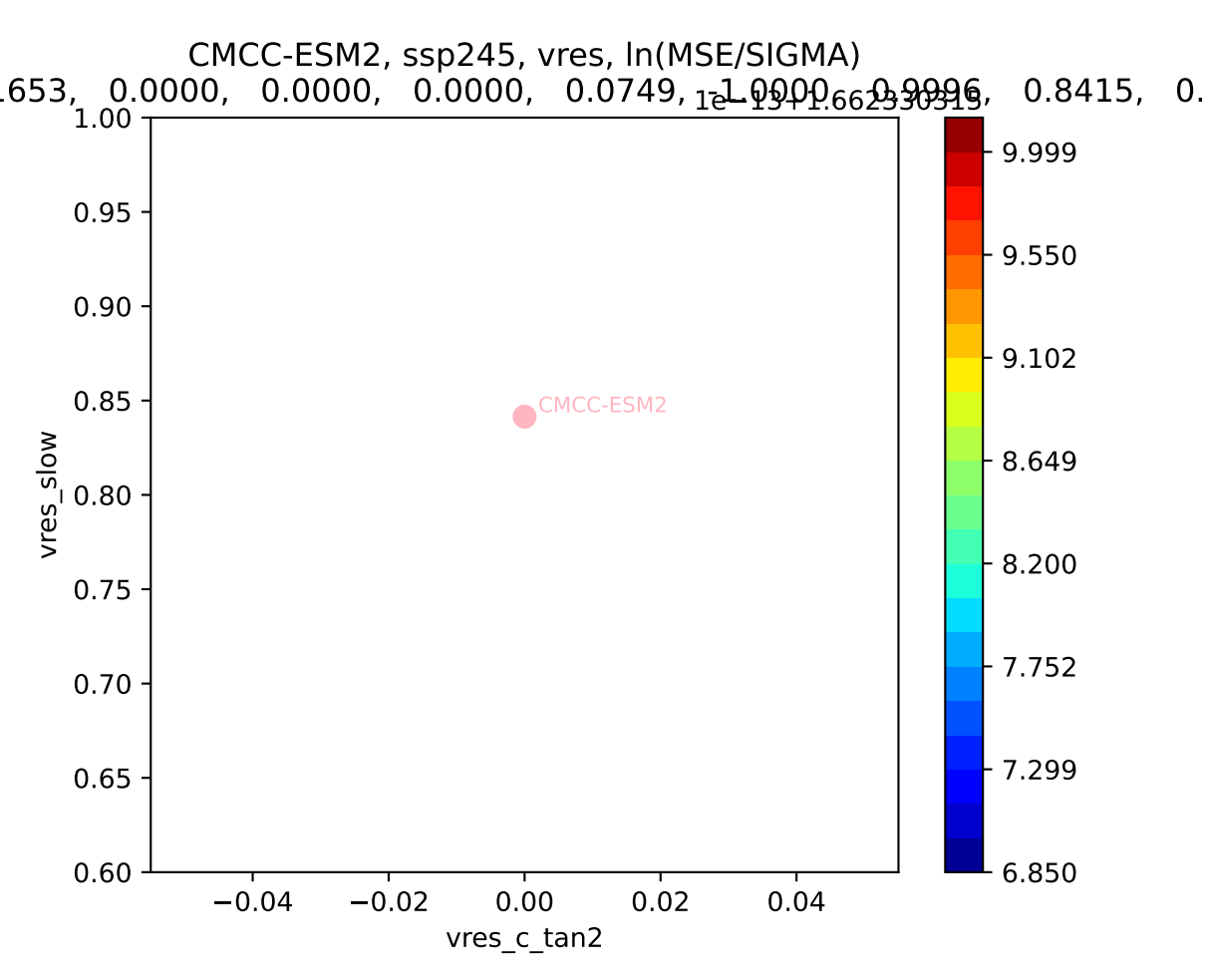

CMCC-ESM2, ssp245, vres
ESM-Fit
vres, ESM - FIT
c_atm

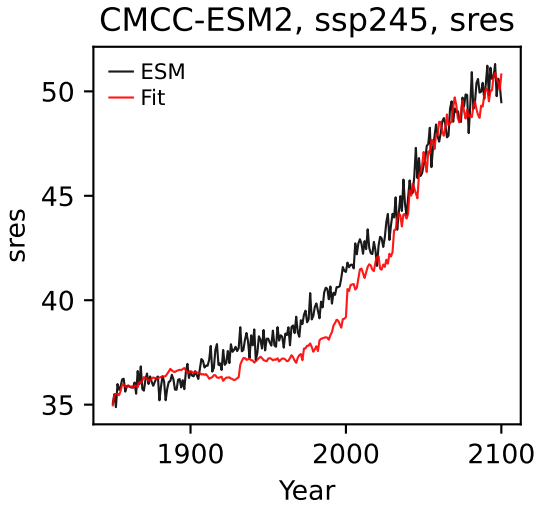

CMCC-ESM2, ssp245, vres, ln(MSE/SIGMA)
1653, 0.0000, 0.0000, 0.0000, 0.0749, -1.0000, 0.9996, 0.8415, 0.
CMCC-ESM2
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

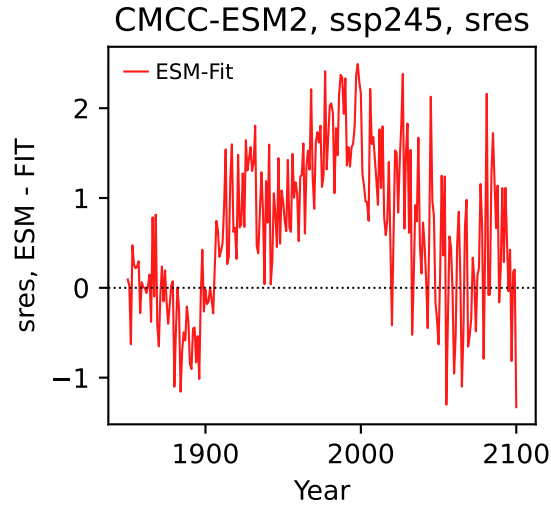

CMCC-ESM2, ssp245, vres, ln(MSE/SIGMA)
1653, 0.0000, 0.0000, 0.0000, 0.0749, -1.0000, 0.9996, 0.8415, 0.
vres_c_e
vres_c_l
CMCC-ESM2
0
1
2
3
4
5
0.3
1.5
2.7
3.9
5.1
6.3
7.5
8.7

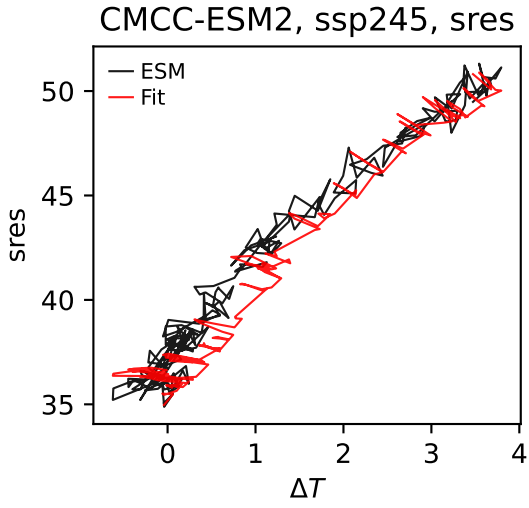

CMCC-ESM2, ssp245, vres, ln(MSE/SIGMA)
1653, 0.0000, 0.0000, 0.0000, 0.0749, -1.0000, 0.9996, 0.8415, 0.
CMCC-ESM2
vres_hyst
vres_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8

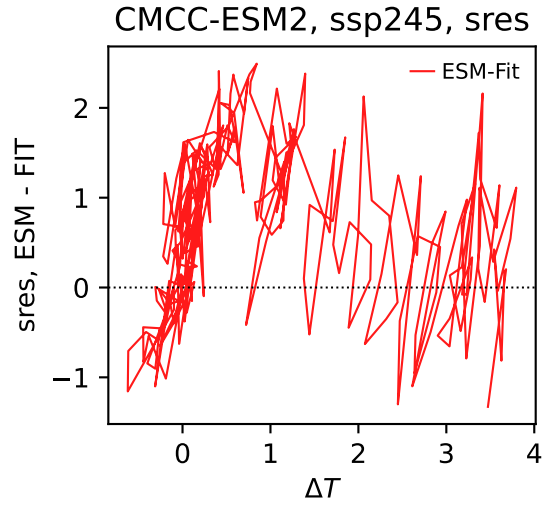

CMCC-ESM2, ssp245, vres, ln(MSE/SIGMA)
1653, 0.0000, 0.0000, 0.0000, 0.0749, -1.0000, 0.9996, 0.8415, 0.
CMCC-ESM2
1.00
0.98
0.96
0.94
0.92
0.90
vres_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
vres_c_tan
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00
1.25
0.50

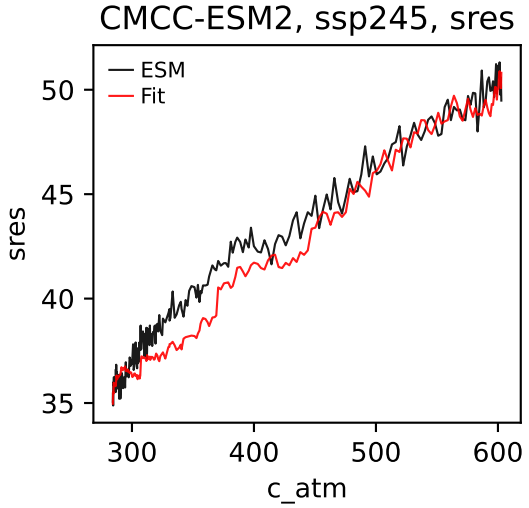

CMCC-ESM2, ssp245, vres, ln(MSE/SIGMA)
1653, 0.0000, 0.0000, 0.0000, 0.0749, 1.0000, 0.9996, 0.8415, 0.
1e−13+1.662330315
CMCC-ESM2
vres_slow
vres_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
9.999
9.550
9.102
8.649
8.200
7.752
7.299
6.850

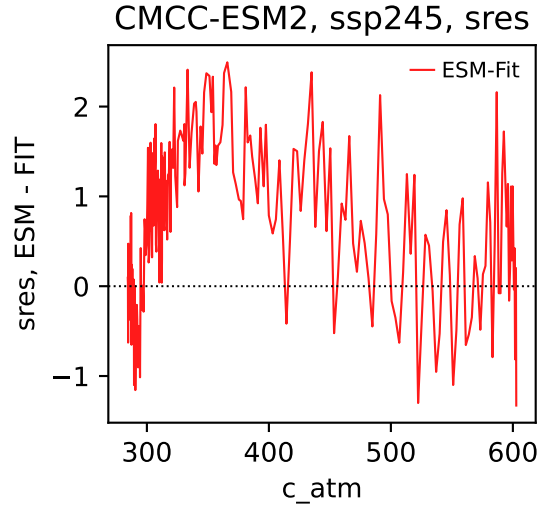

CMCC-ESM2, ssp245, sres
ESM
Fit
sres
Year

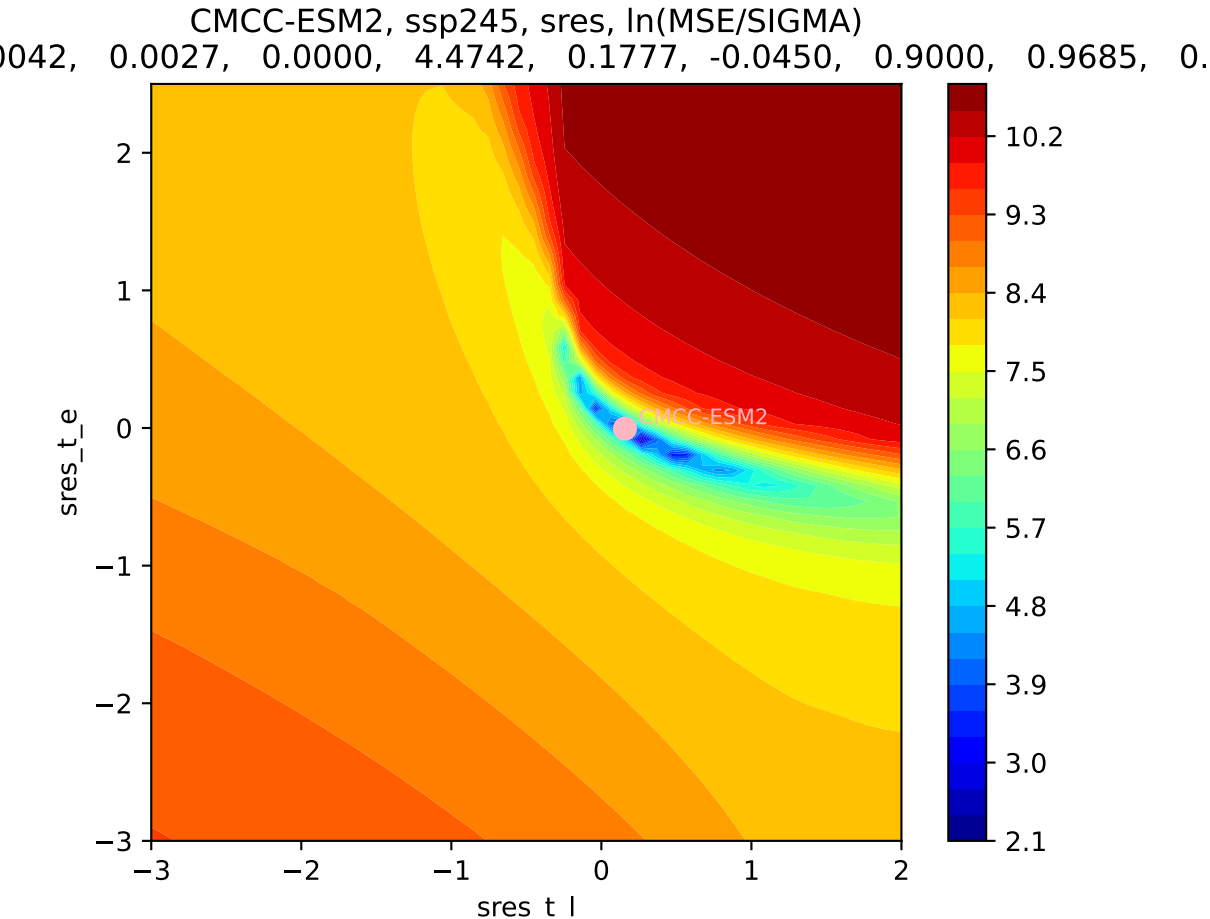

CMCC-ESM2, ssp245, sres
ESM-Fit
sres, ESM - FIT
Year

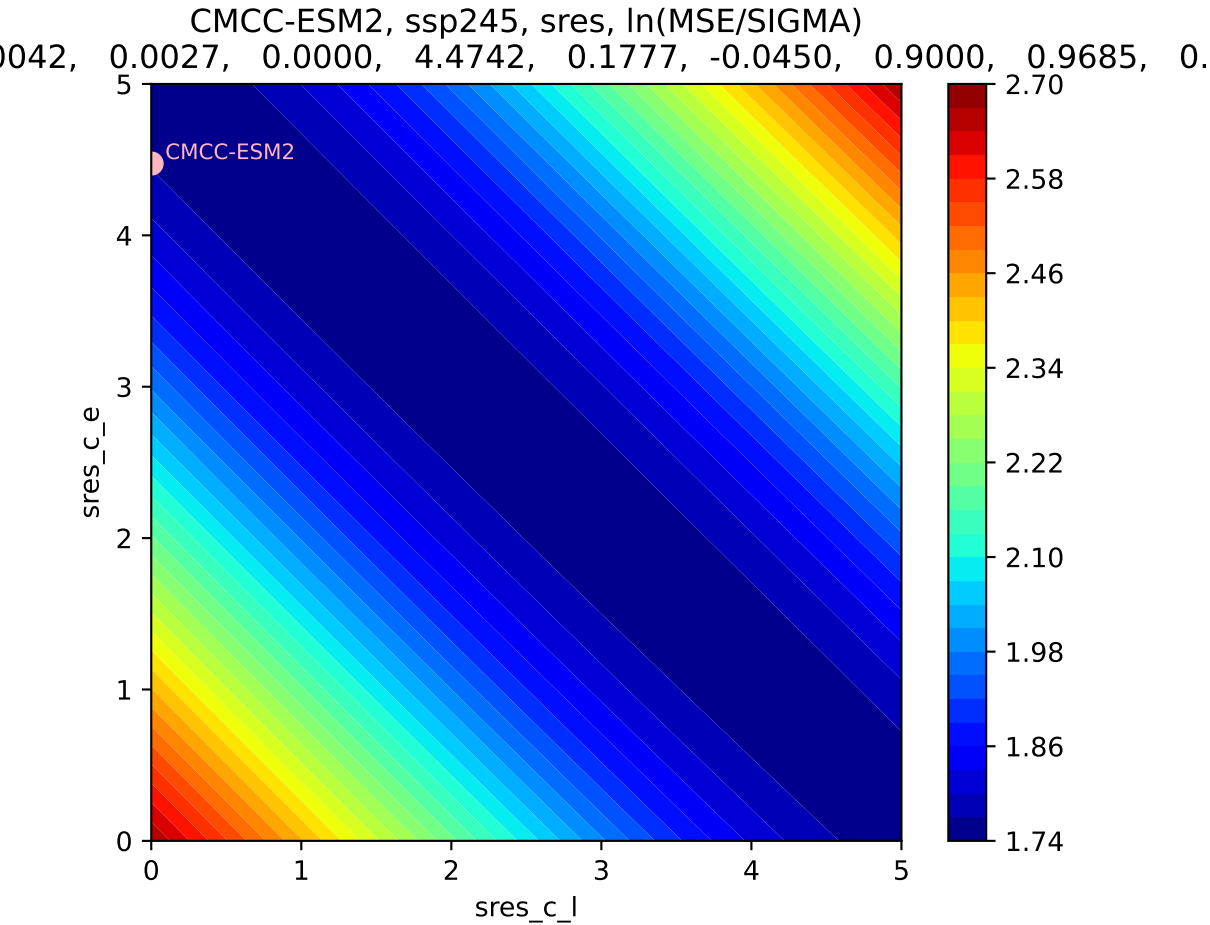

CMCC-ESM2, ssp245, sres
ESM
Fit
sres
ΔT

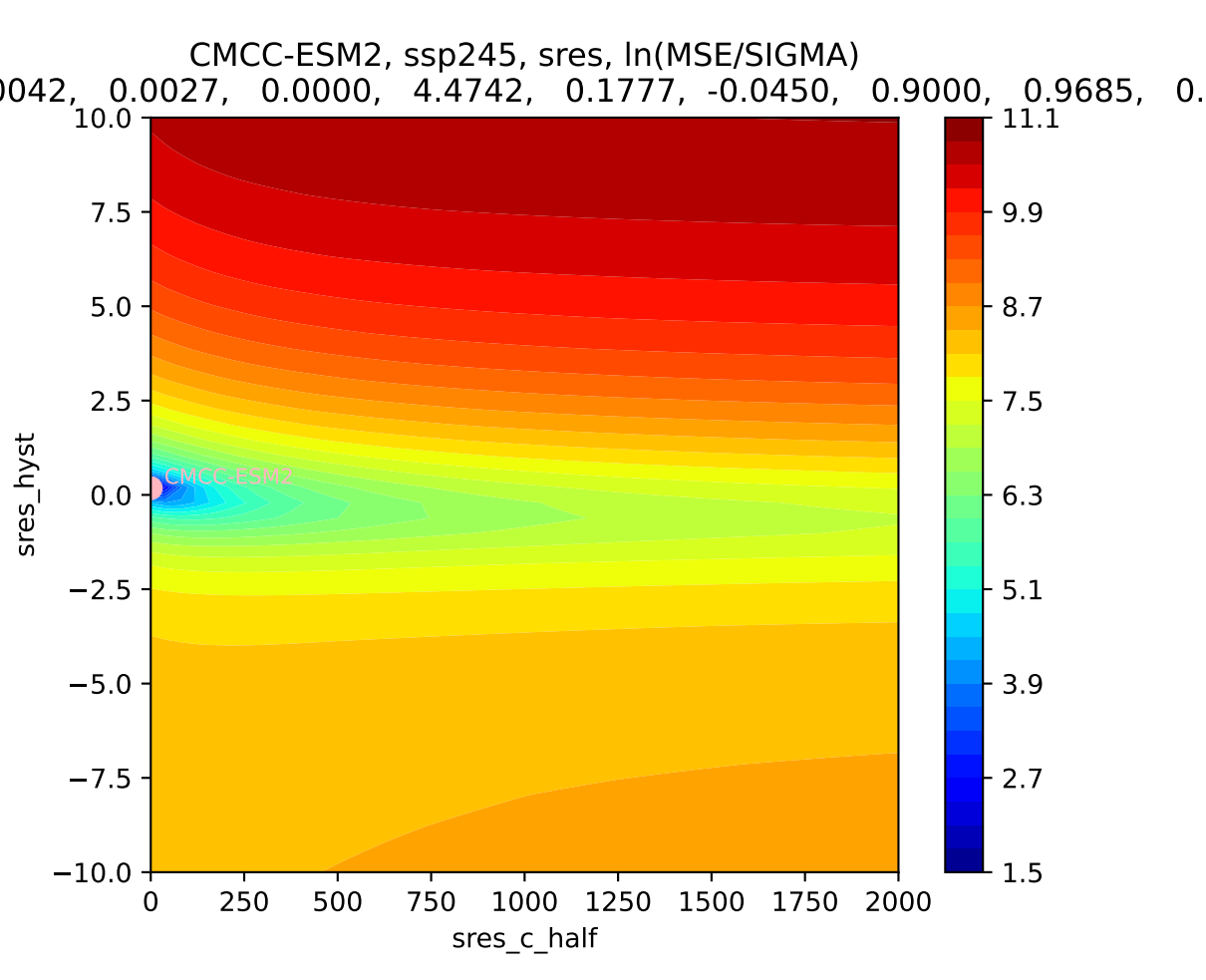

CMCC-ESM2, ssp245, sres
ESM-Fit
sres, ESM - FIT
ΔT

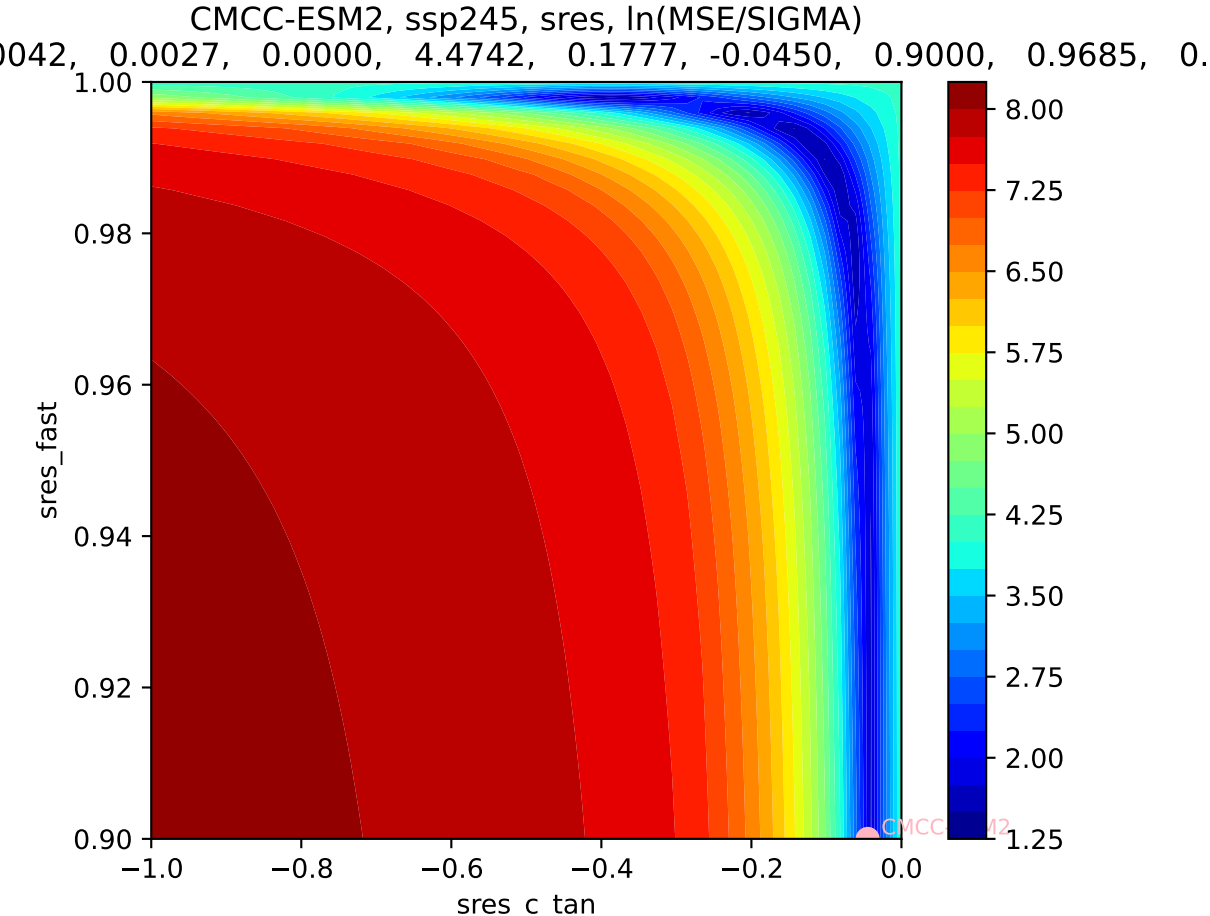

CMCC-ESM2, ssp245, sres
ESM
Fit
sres
c_atm

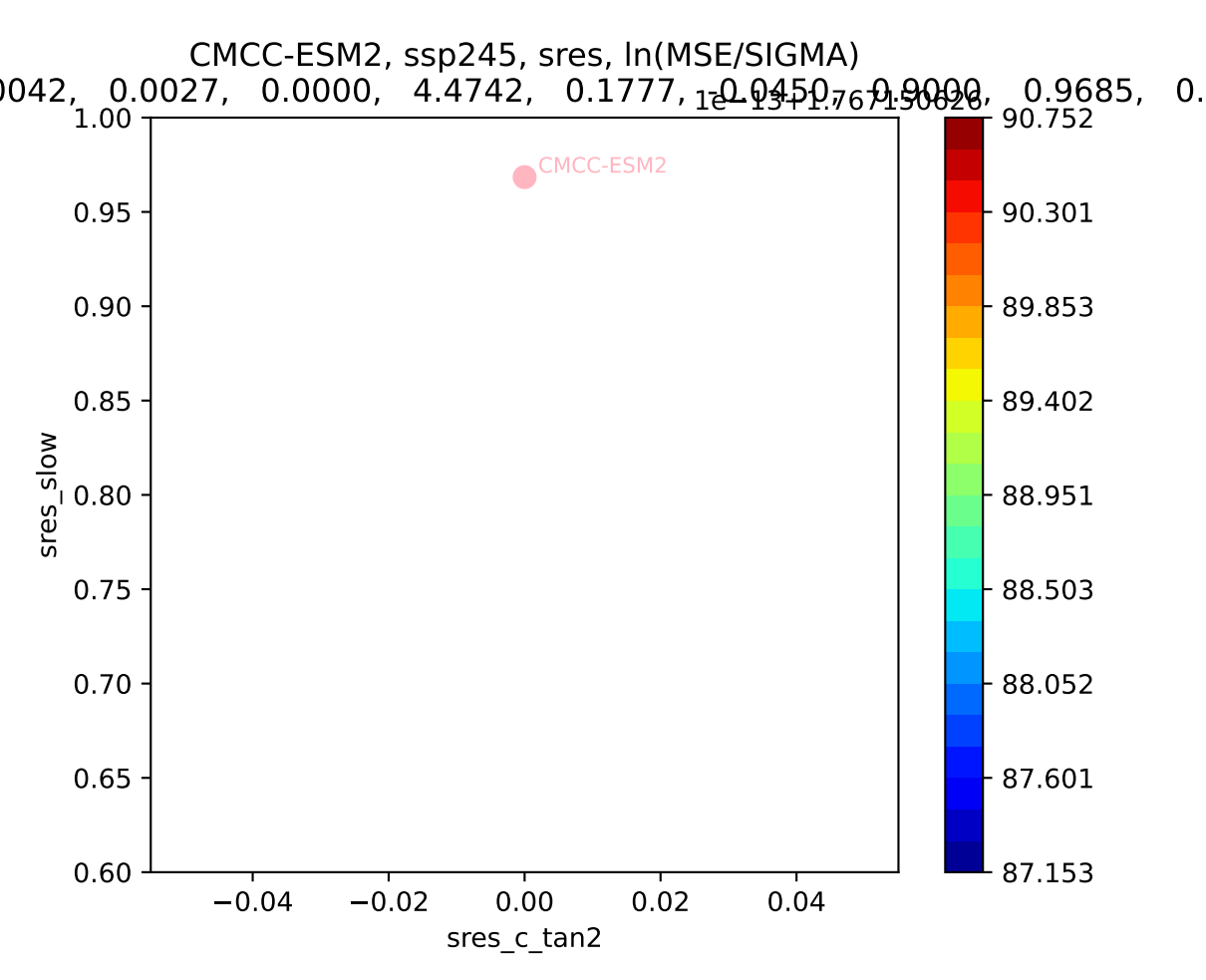

CMCC-ESM2, ssp245, sres
ESM-Fit
sres, ESM - FIT
c_atm

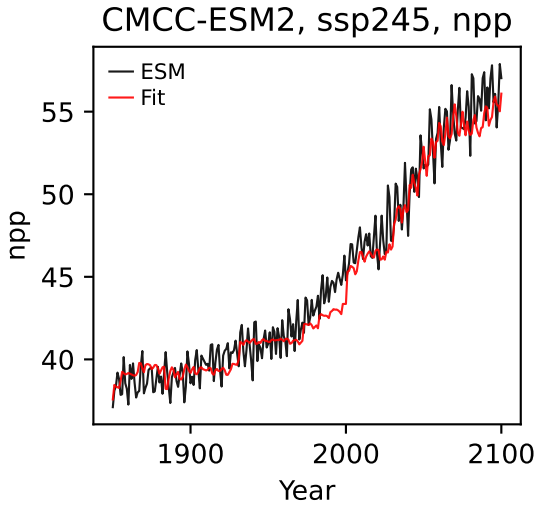

CMCC-ESM2, ssp245, sres, ln(MSE/SIGMA)
0042, 0.0027, 0.0000, 4.4742, 0.1777, -0.0450, 0.9000, 0.9685, 0.
CMCC-ESM2
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
10.2
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1

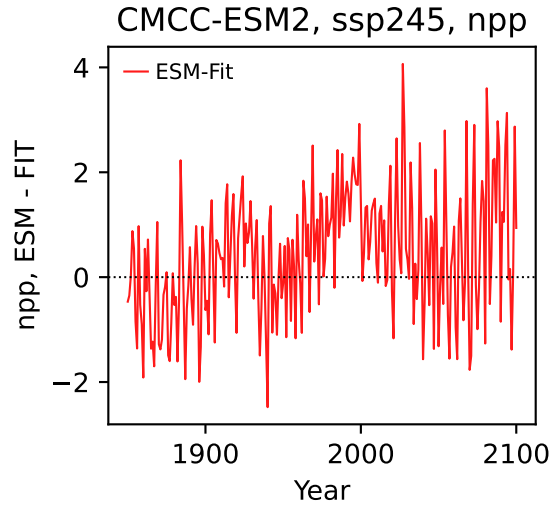

CMCC-ESM2, ssp245, sres, ln(MSE/SIGMA)
0042, 0.0027, 0.0000, 4.4742, 0.1777, -0.0450, 0.9000, 0.9685, 0.
CMCC-ESM2
sres_c_e
sres_c_l
0
1
2
3
4
5
2.70
2.58
2.46
2.34
2.22
2.10
1.98
1.86
1.74

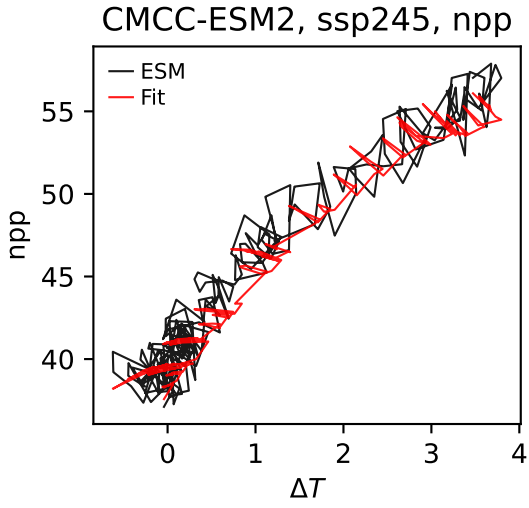

CMCC-ESM2, ssp245, sres, ln(MSE/SIGMA)
0042, 0.0027, 0.0000, 4.4742, 0.1777, -0.0450, 0.9000, 0.9685, 0.
CMCC-ESM2
sres_hyst
sres_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
11.1
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5

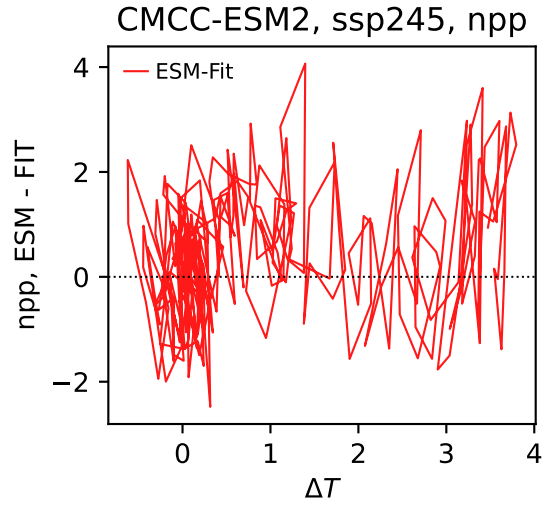

CMCC-ESM2, ssp245, sres, ln(MSE/SIGMA)
0042, 0.0027, 0.0000, 4.4742, 0.1777, -0.0450, 0.9000, 0.9685, 0.
1.00
0.98
0.96
0.94
0.92
0.90
sres_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
sres_c_tan
8.00
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00
1.25

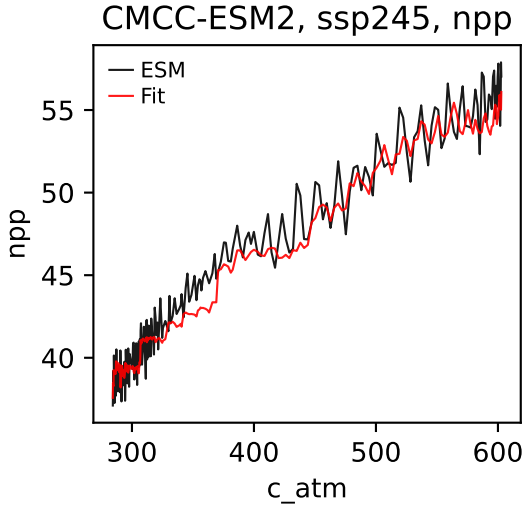

CMCC-ESM2, ssp245, sres, ln(MSE/SIGMA)
0042, 0.0027, 0.0000, 4.4742, 0.1777, -0.0450, 0.9000, 0.9685, 0.
1e−13+1.7671506
CMCC-ESM2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
−0.04
−0.02
0.00
0.02
0.04
sres_c_tan2
90.752
90.301
89.853
89.402
88.951
88.503
88.052
87.601
87.153

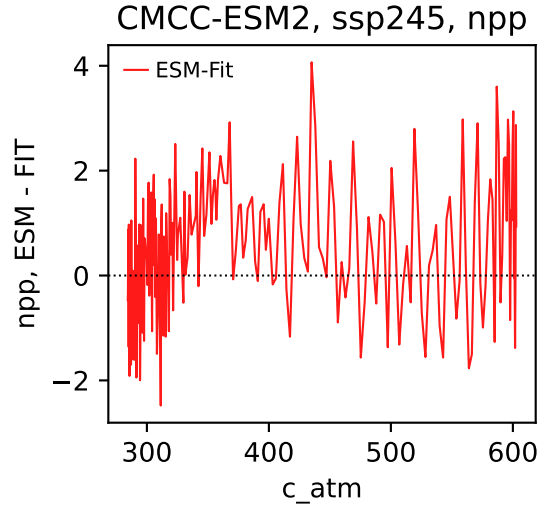

CMCC-ESM2, ssp245, npp
ESM
Fit
npp
Year

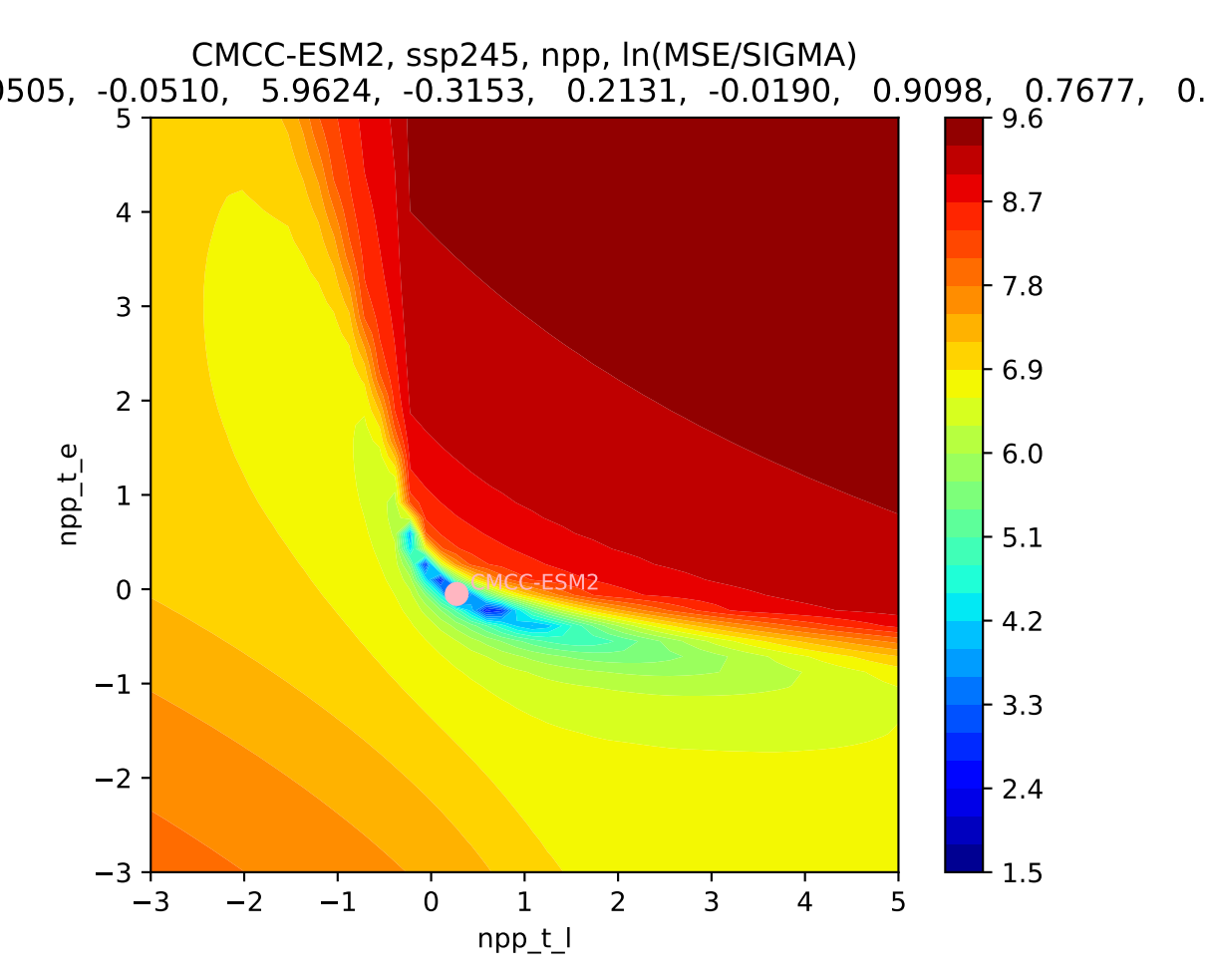

CMCC-ESM2, ssp245, npp
ESM-Fit
npp, ESM - FIT
Year

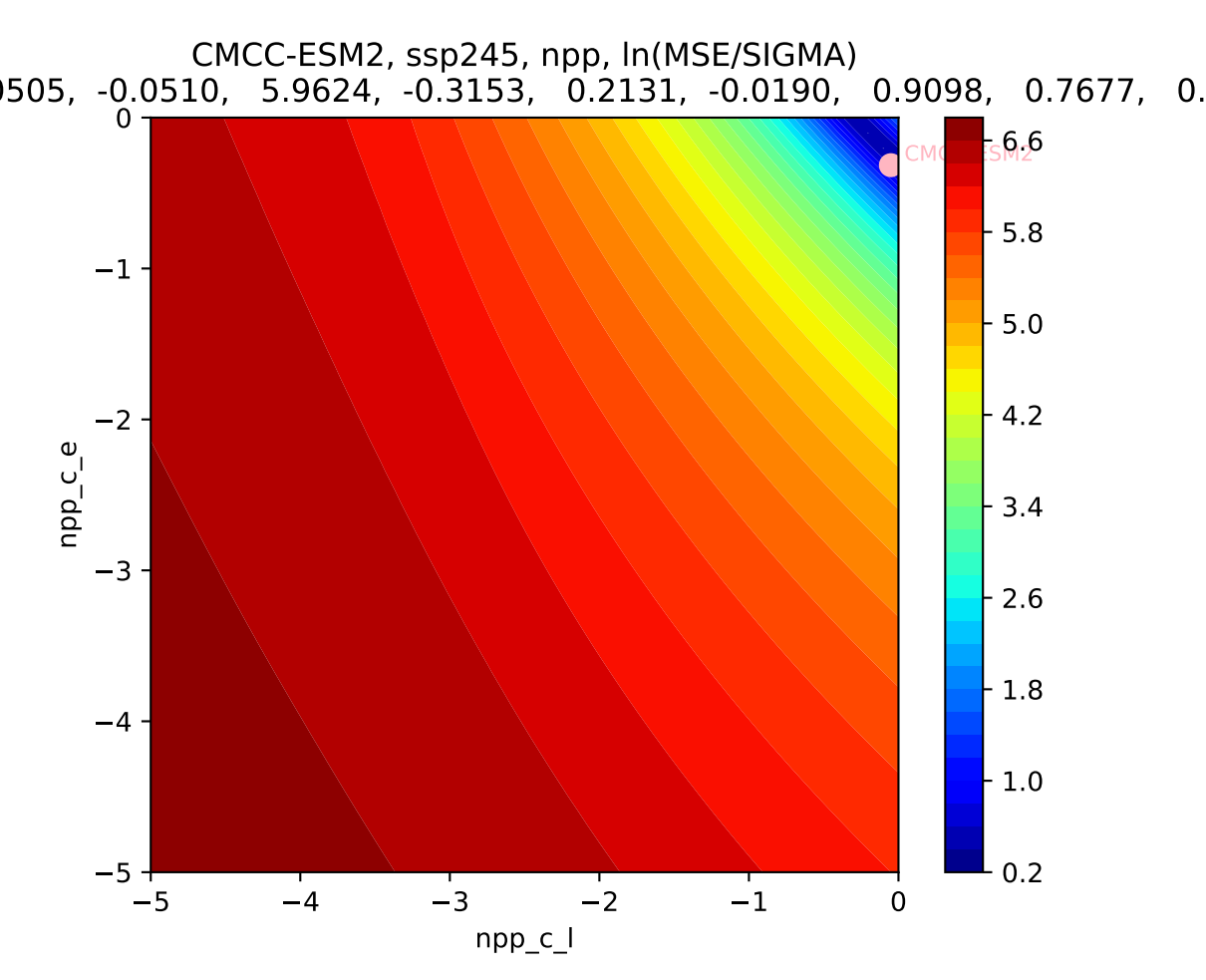

CMCC-ESM2, ssp245, npp
ESM
Fit
npp
ΔT

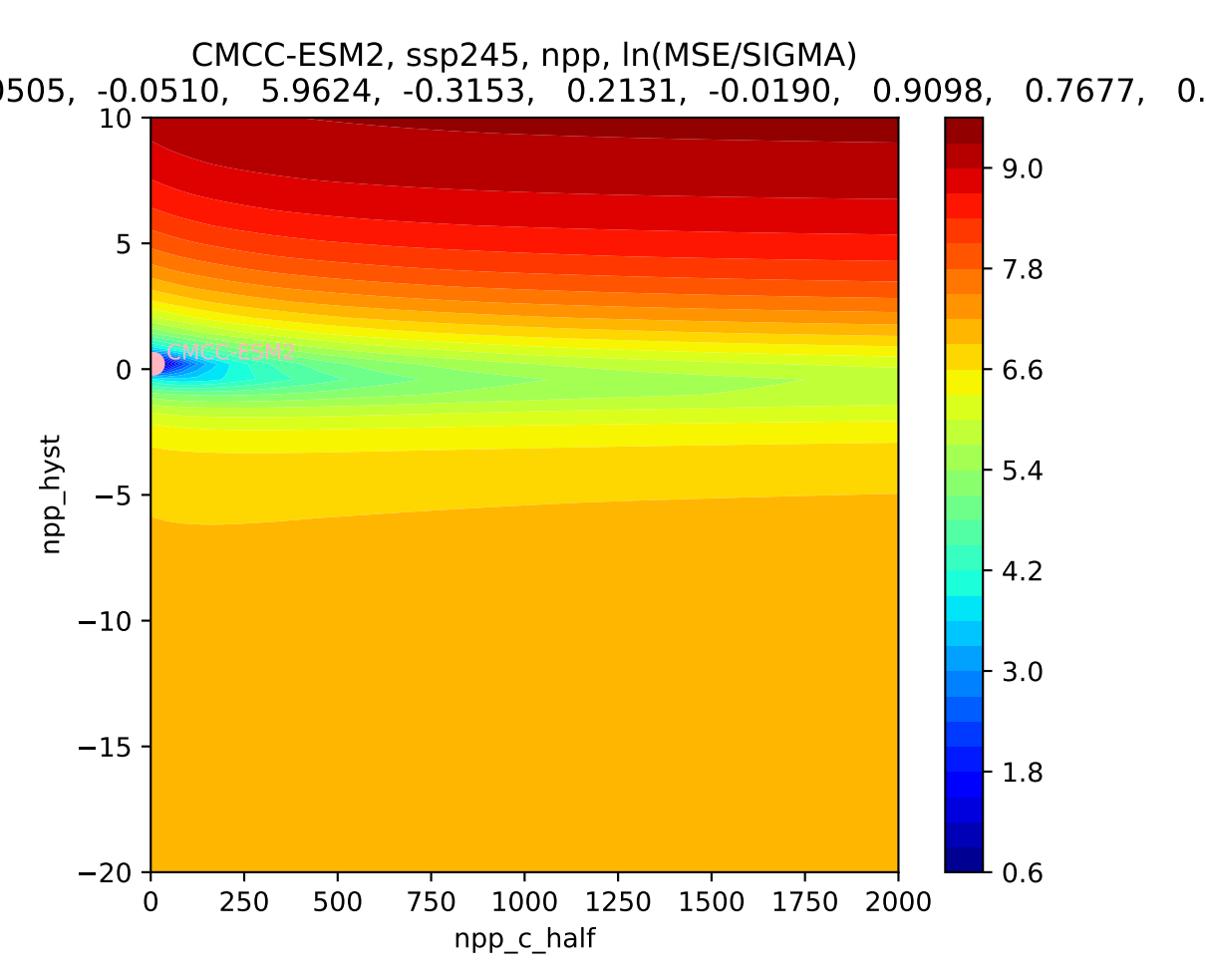

CMCC-ESM2, ssp245, npp
ESM-Fit
npp, ESM - FIT
ΔT

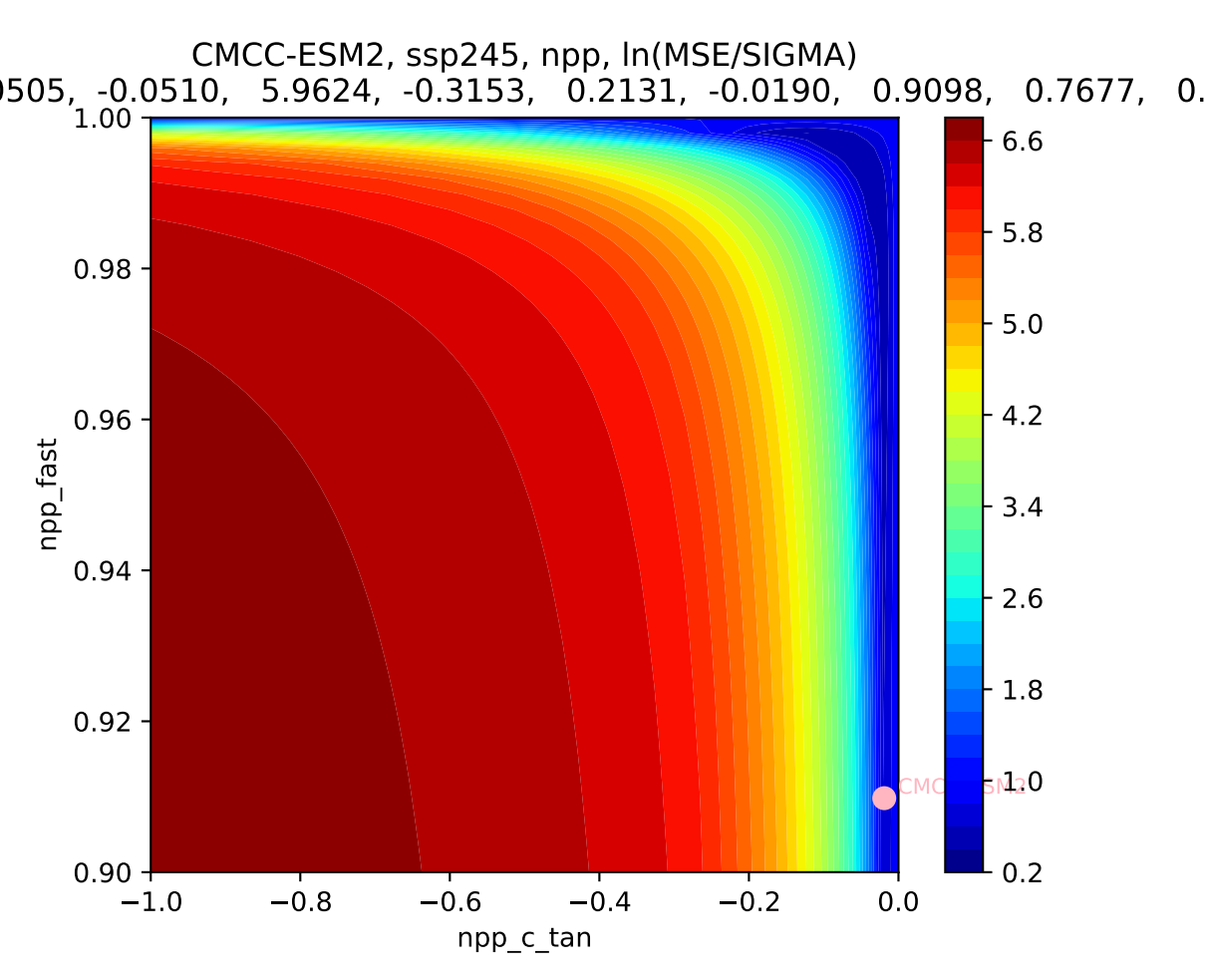

CMCC-ESM2, ssp245, npp
ESM
Fit
npp
c_atm

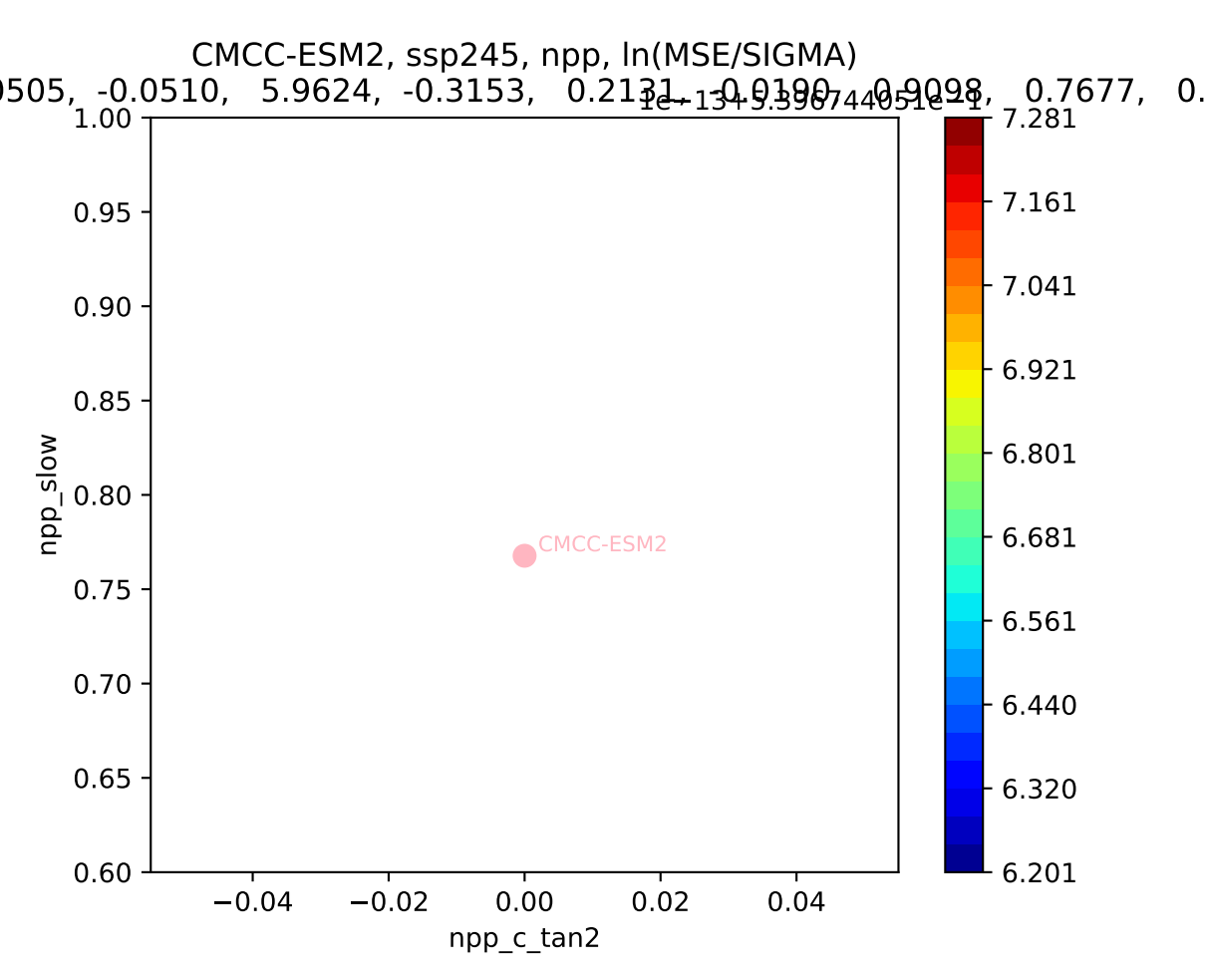

CMCC-ESM2, ssp245, npp
ESM-Fit
npp, ESM - FIT
c_atm

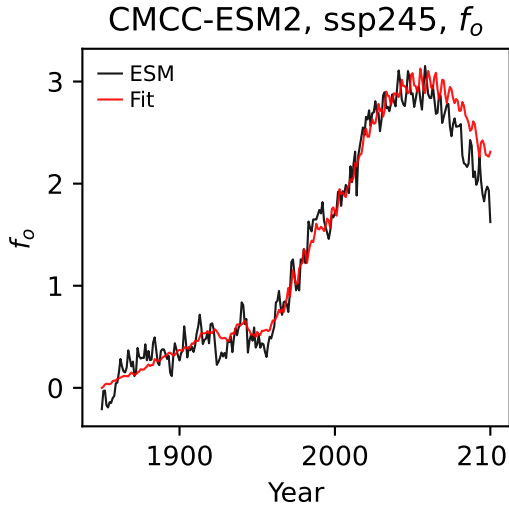

CMCC-ESM2, ssp245, npp, ln(MSE/SIGMA)
0505, -0.0510, 5.9624, -0.3153, 0.2131, -0.0190, 0.9098, 0.7677, 0.
CMCC-ESM2
npp_t_e
npp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5

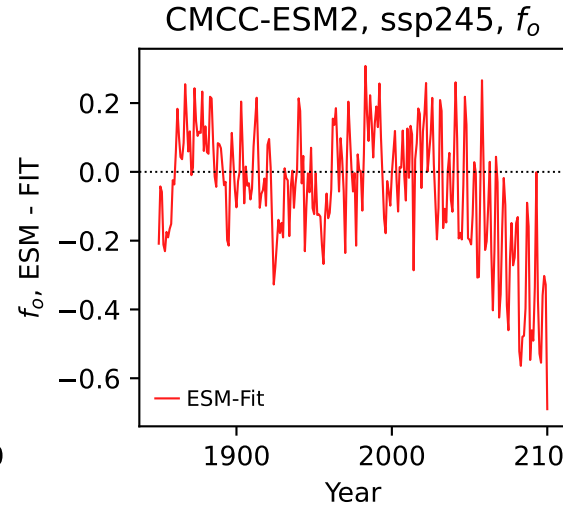

CMCC-ESM2, ssp245, npp, ln(MSE/SIGMA)
0505, -0.0510, 5.9624, -0.3153, 0.2131, -0.0190, 0.9098, 0.7677, 0.
npp_c_e
npp_c_l
0
−1
−2
−3
−4
−5
6.6
5.8
5.0
4.2
3.4
2.6
1.8
1.0
0.2

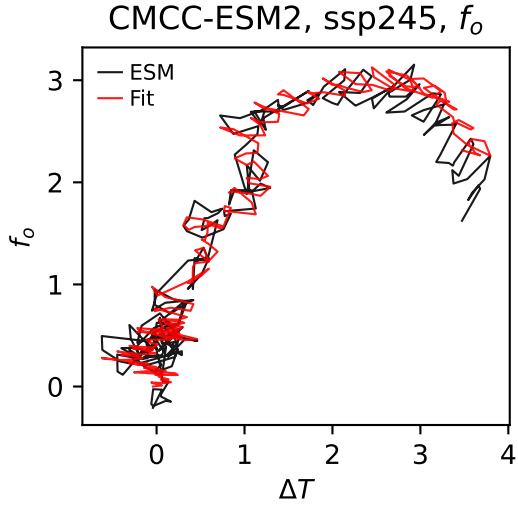

CMCC-ESM2, ssp245, npp, ln(MSE/SIGMA)
0505, -0.0510, 5.9624, -0.3153, 0.2131, -0.0190, 0.9098, 0.7677, 0.
CMCC-ESM2
npp_hyst
npp_c_half
10
5
0
−5
−10
−15
−20
0
250
500
750
1000
1250
1500
1750
2000
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6

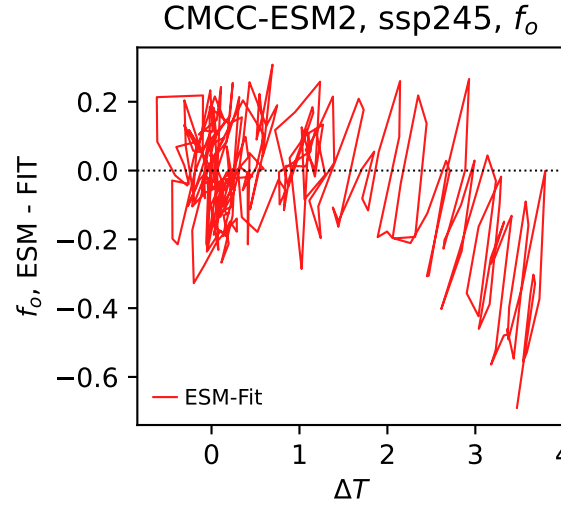

CMCC-ESM2, ssp245, npp, ln(MSE/SIGMA)
0505, -0.0510, 5.9624, -0.3153, 0.2131, -0.0190, 0.9098, 0.7677, 0.
1.00
0.98
0.96
0.94
0.92
0.90
npp_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
npp_c_tan
6.6
5.8
5.0
4.2
3.4
2.6
1.8
1.0
0.2

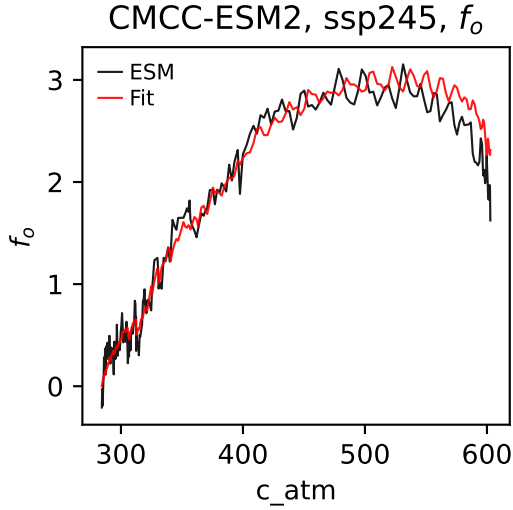

CMCC-ESM2, ssp245, npp, ln(MSE/SIGMA)
0505, -0.0510, 5.9624, -0.3153, 0.2131, -0.0190, 0.9098, 0.7677, 0.
1e−13+5.396744051e−1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
CMCC-ESM2
−0.04
−0.02
0.00
0.02
0.04
npp_c_tan2
7.281
7.161
7.041
6.921
6.801
6.681
6.561
6.440
6.320
6.201

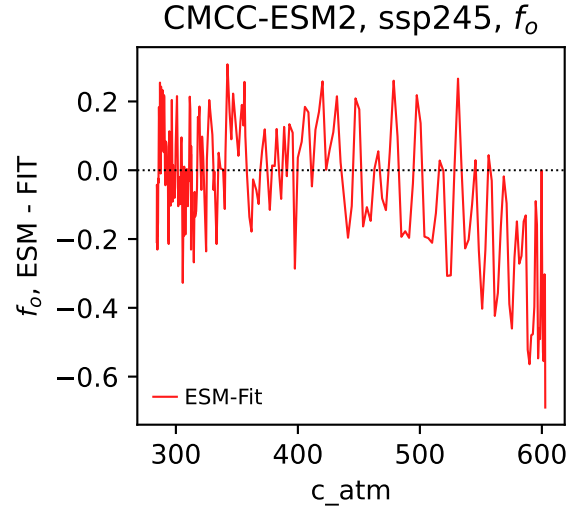

CMCC-ESM2, ssp245, f_o
ESM
Fit
f_o
Year

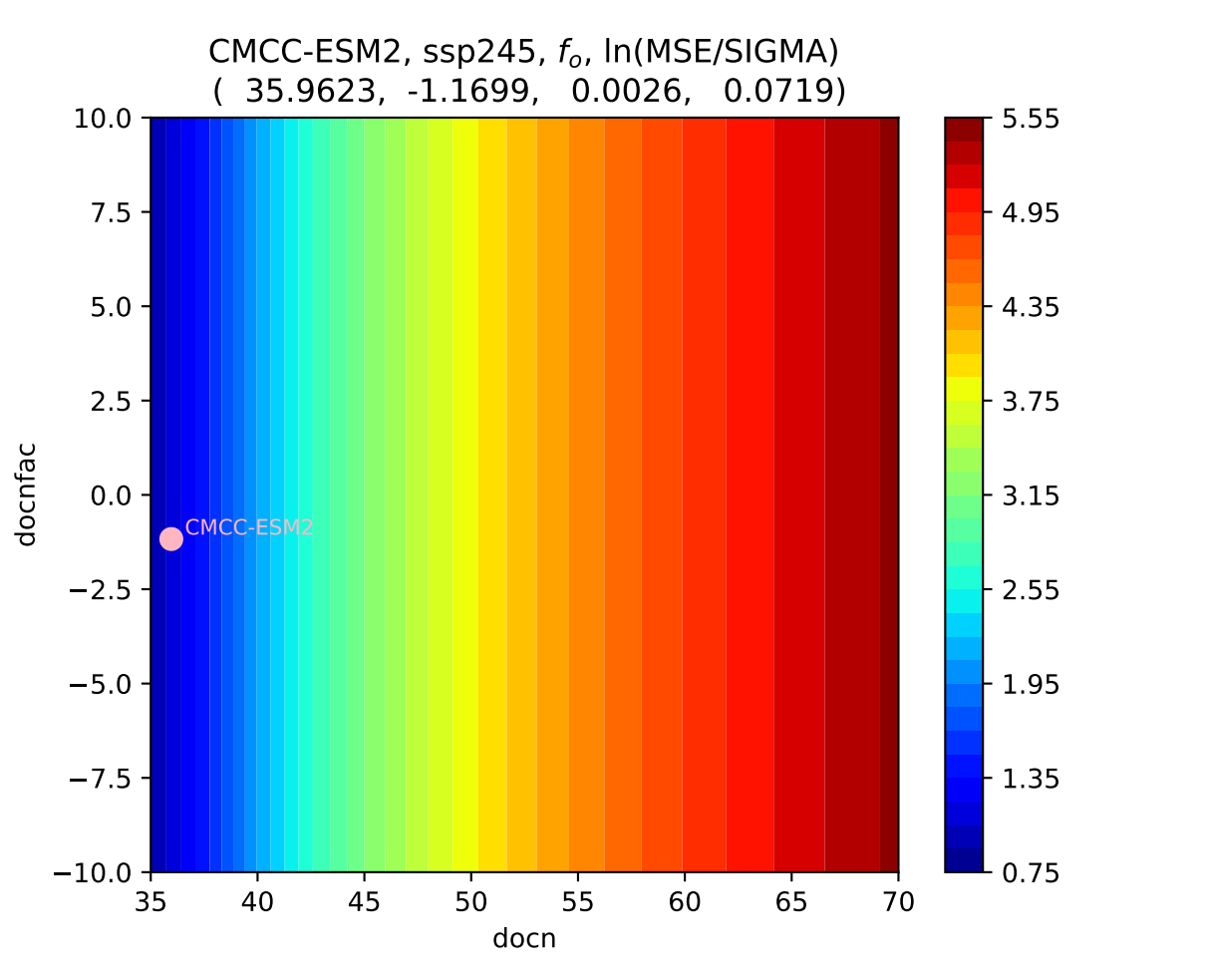

CMCC-ESM2, ssp245, f_o
f_o, ESM - FIT
ESM-Fit
Year

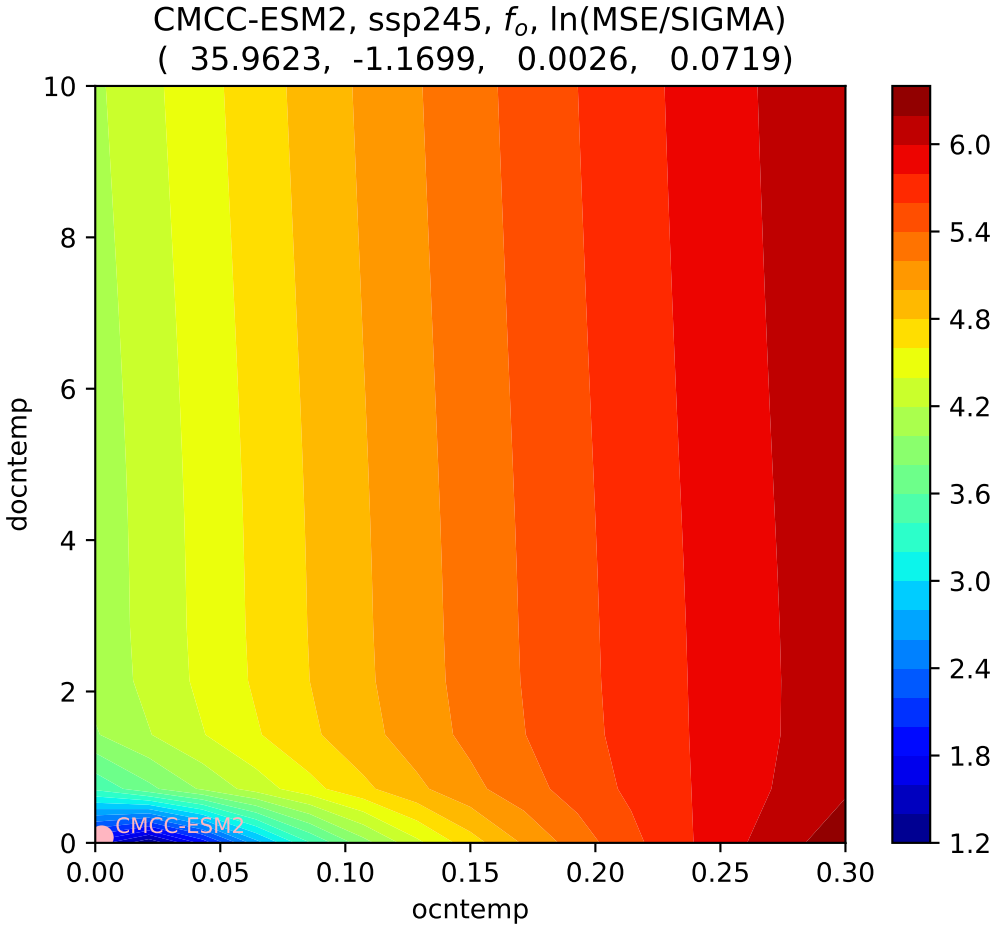

CMCC-ESM2, ssp245, f_o
ESM
Fit
f_o
ΔT


CMCC-ESM2, ssp245, f_o
f_o, ESM - FIT
ESM-Fit
ΔT


CMCC-ESM2, ssp245, f_o
ESM
Fit
f_o
c_atm


CMCC-ESM2, ssp245, f_o
f_o, ESM - FIT
ESM-Fit
c_atm


CMCC-ESM2, ssp245, f_o, ln(MSE/SIGMA)
(35.9623, -1.1699, 0.0026, 0.0719)
CMCC-ESM2
docnfac
docn
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
35
40
45
50
55
60
65
70
5.55
4.95
4.35
3.75
3.15
2.55
1.95
1.35
0.75


CMCC-ESM2, ssp245, f_o, ln(MSE/SIGMA)
(35.9623, -1.1699, 0.0026, 0.0719)
docntemp
ocntemp
CMCC-ESM2
0
2
4
6
8
10
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1.2
1.8
2.4
3.0
3.6
4.2
4.8
5.4
6.0