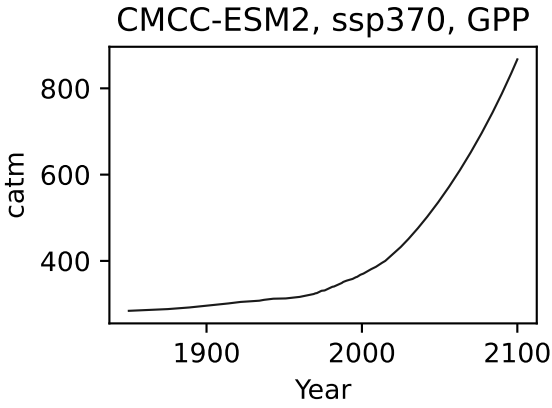
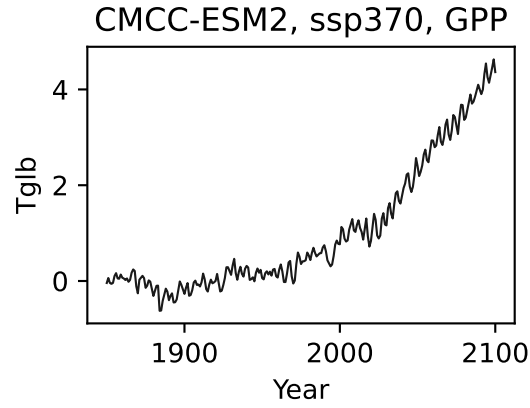
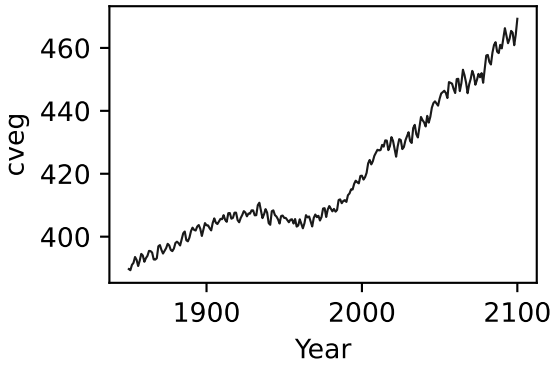
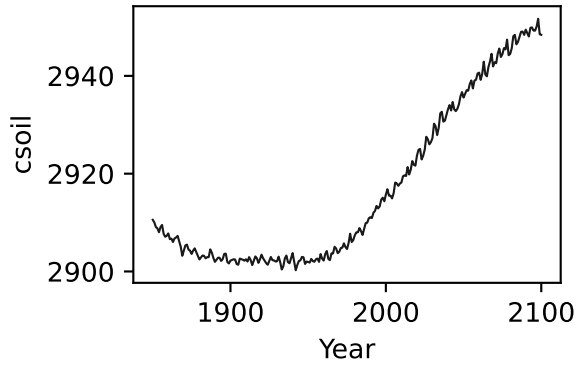
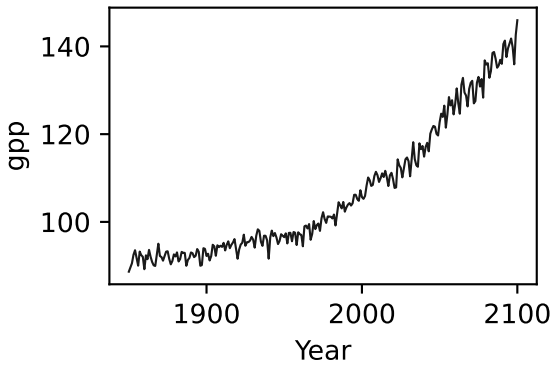
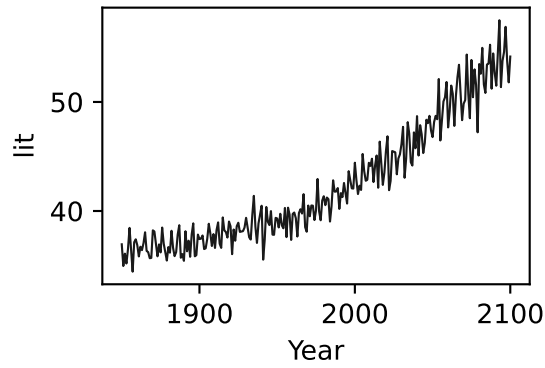

CMCC-ESM2, ssp370, GPP
catm
800
600
400
1900
2000
2100
Year

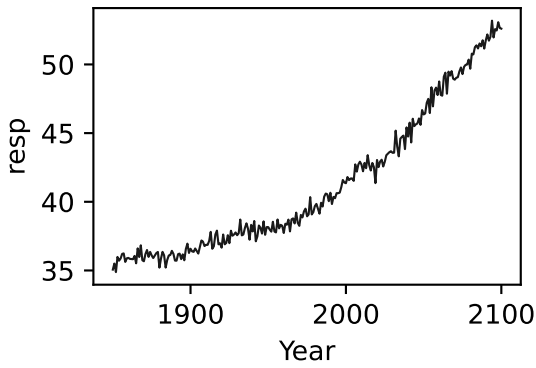

CMCC-ESM2, ssp370, GPP
Tglb
4
2
0
1900
2000
2100
Year

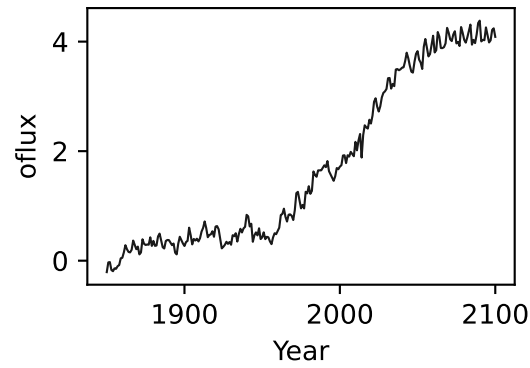

cveg
460
440
420
400
1900
2000
2100
Year

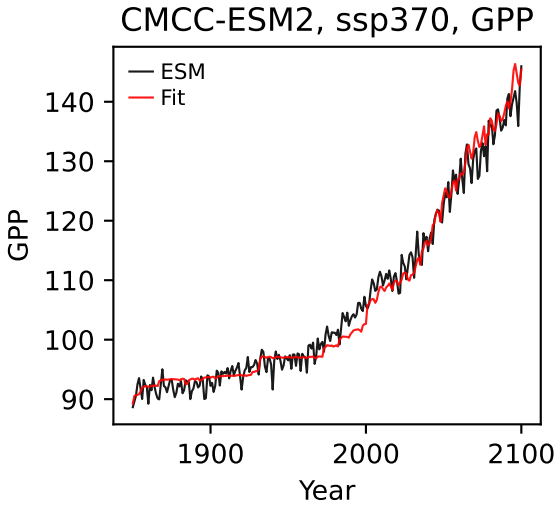

csoil
2940
2920
2900
1900
2000
2100
Year

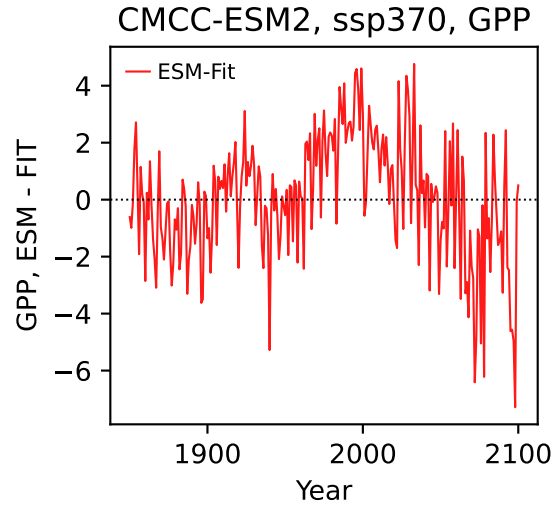

gpp
140
120
100
1900
2000
2100
Year

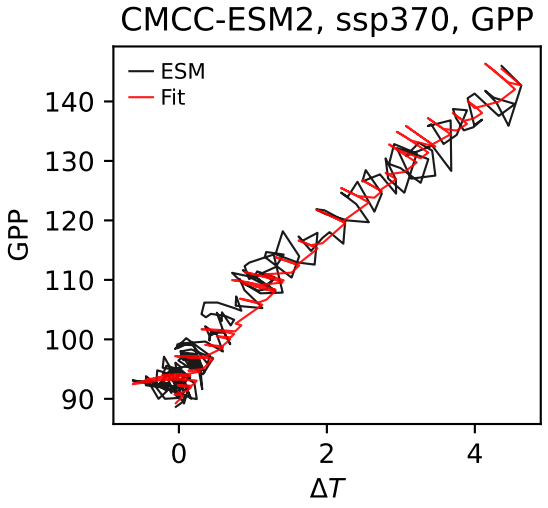

lit
50
40
1900
2000
2100
Year

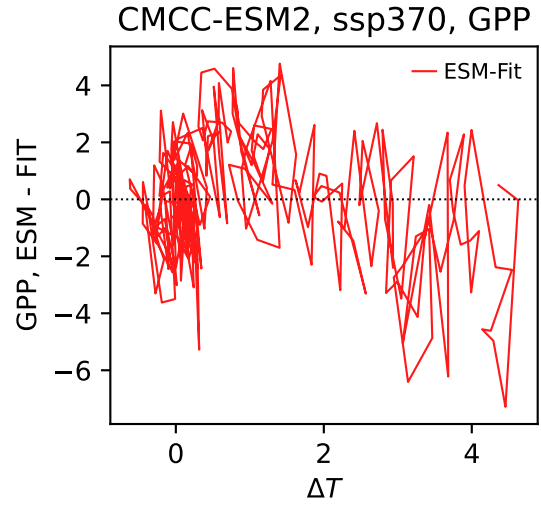

resp
50
45
40
35
1900
2000
2100
Year

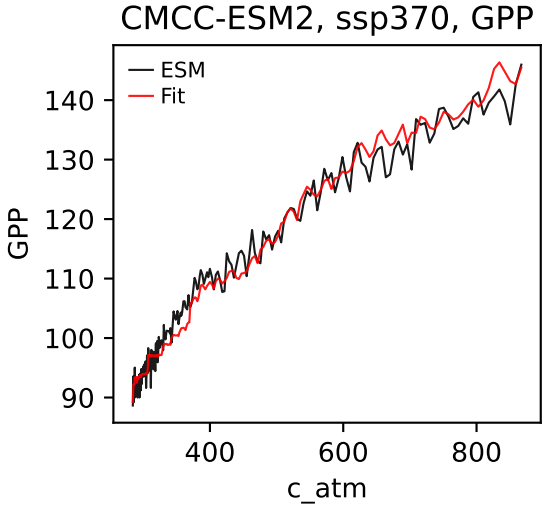

oflux
4
2
0
1900
2000
2100
Year

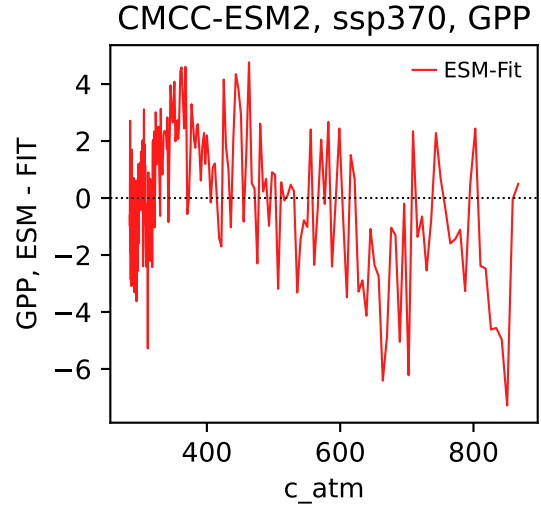

CMCC-ESM2, ssp370, GPP
ESM
Fit
GPP
Year

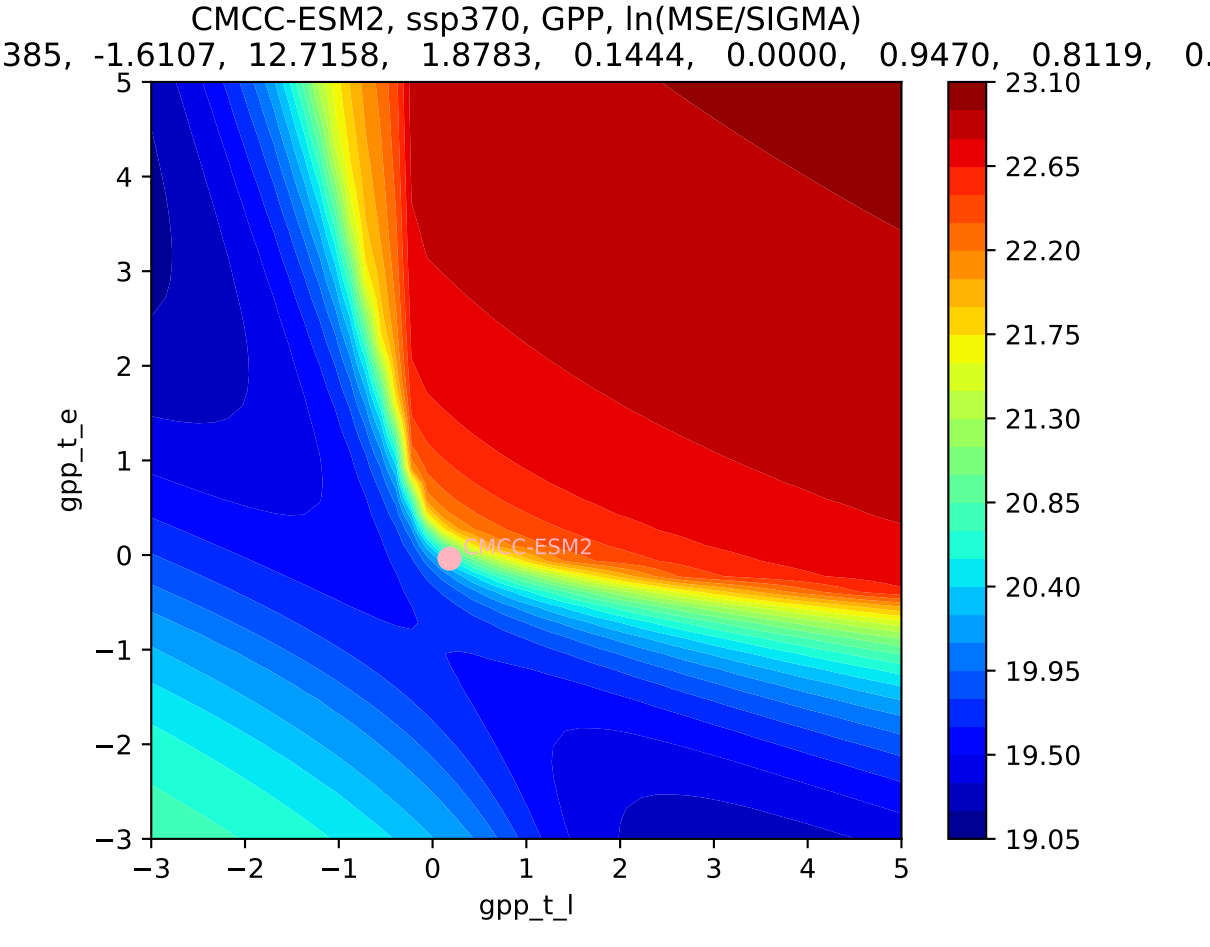

CMCC-ESM2, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
Year

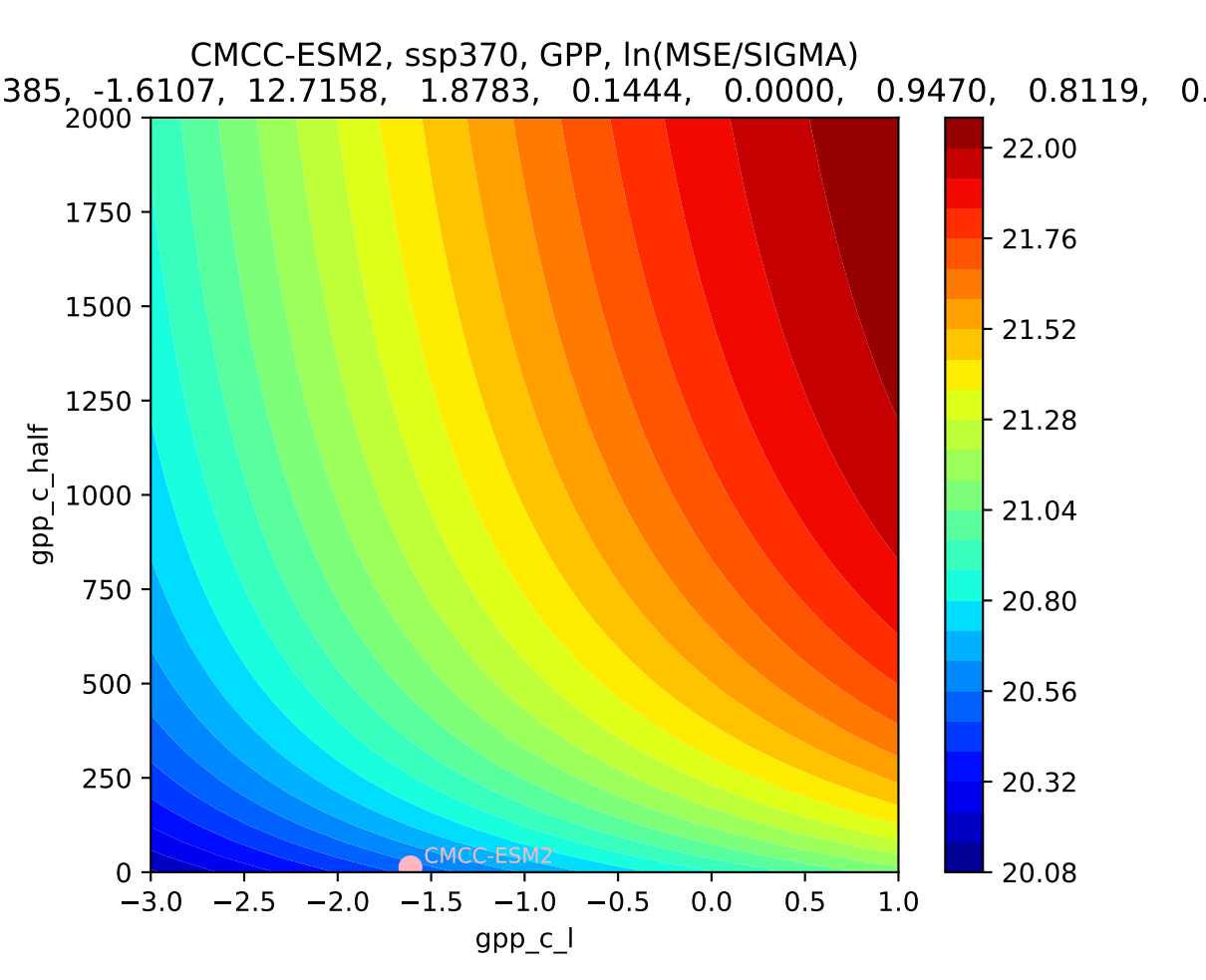

CMCC-ESM2, ssp370, GPP
ESM
Fit
GPP
ΔT

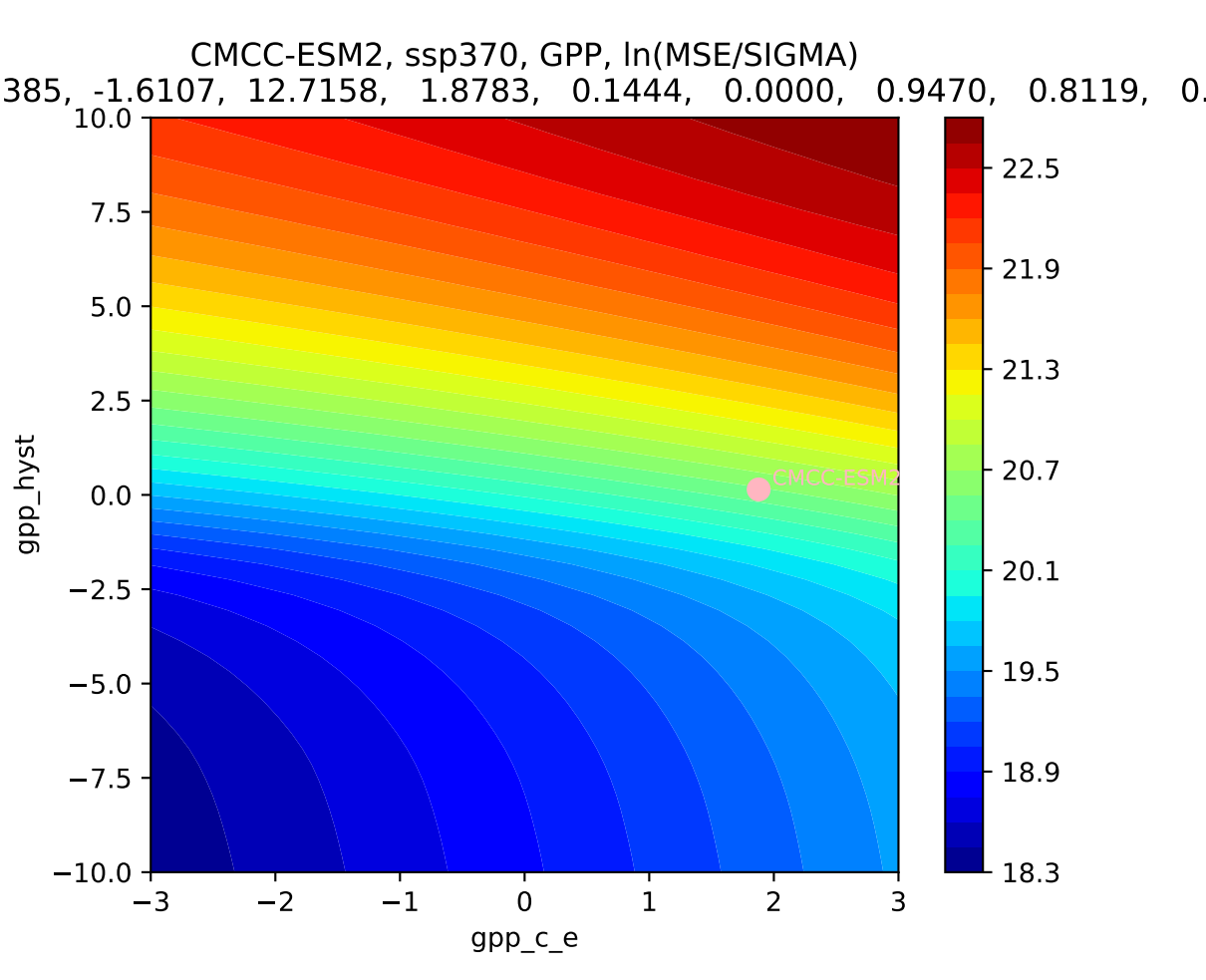

CMCC-ESM2, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

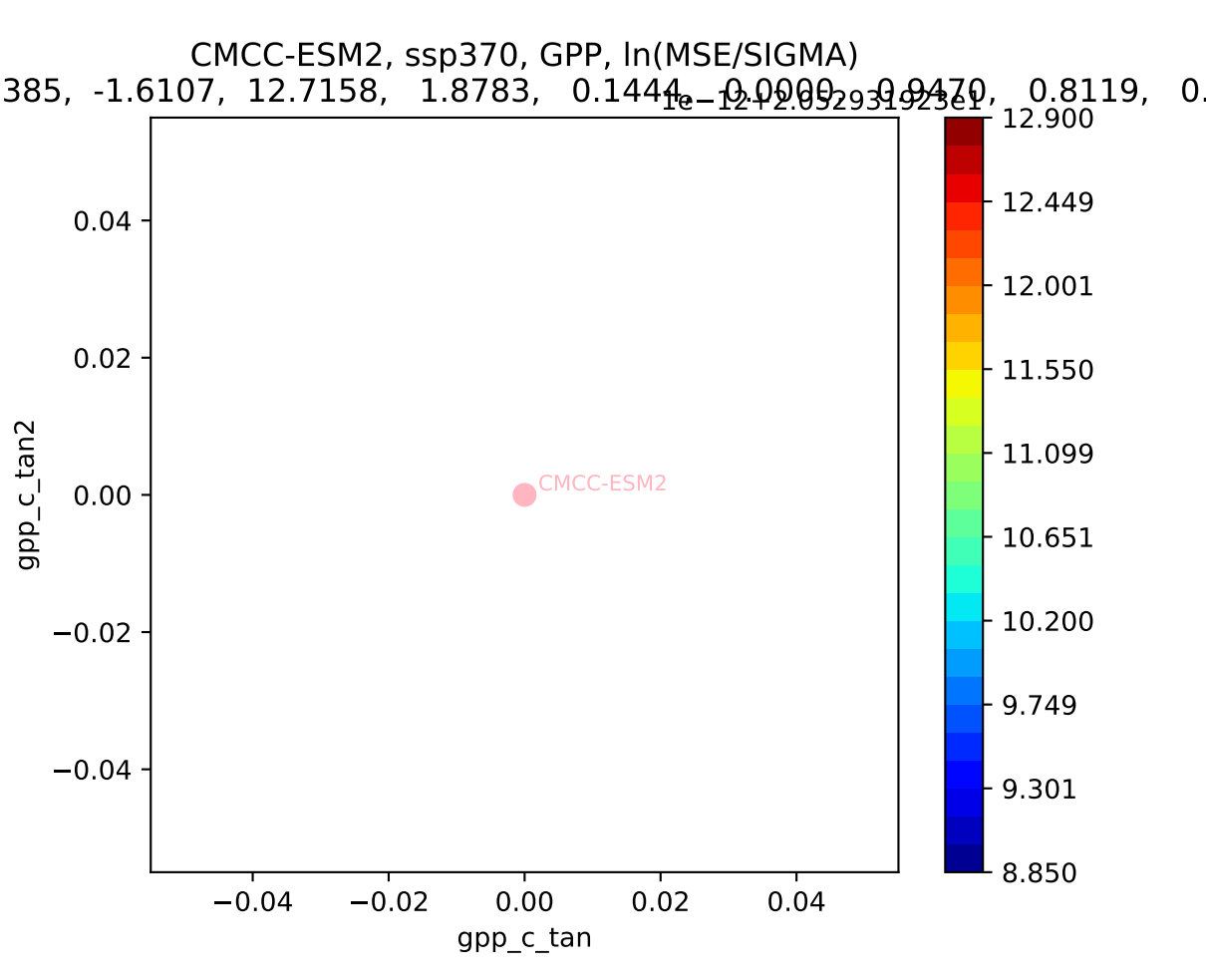

CMCC-ESM2, ssp370, GPP
ESM
Fit
GPP
c_atm

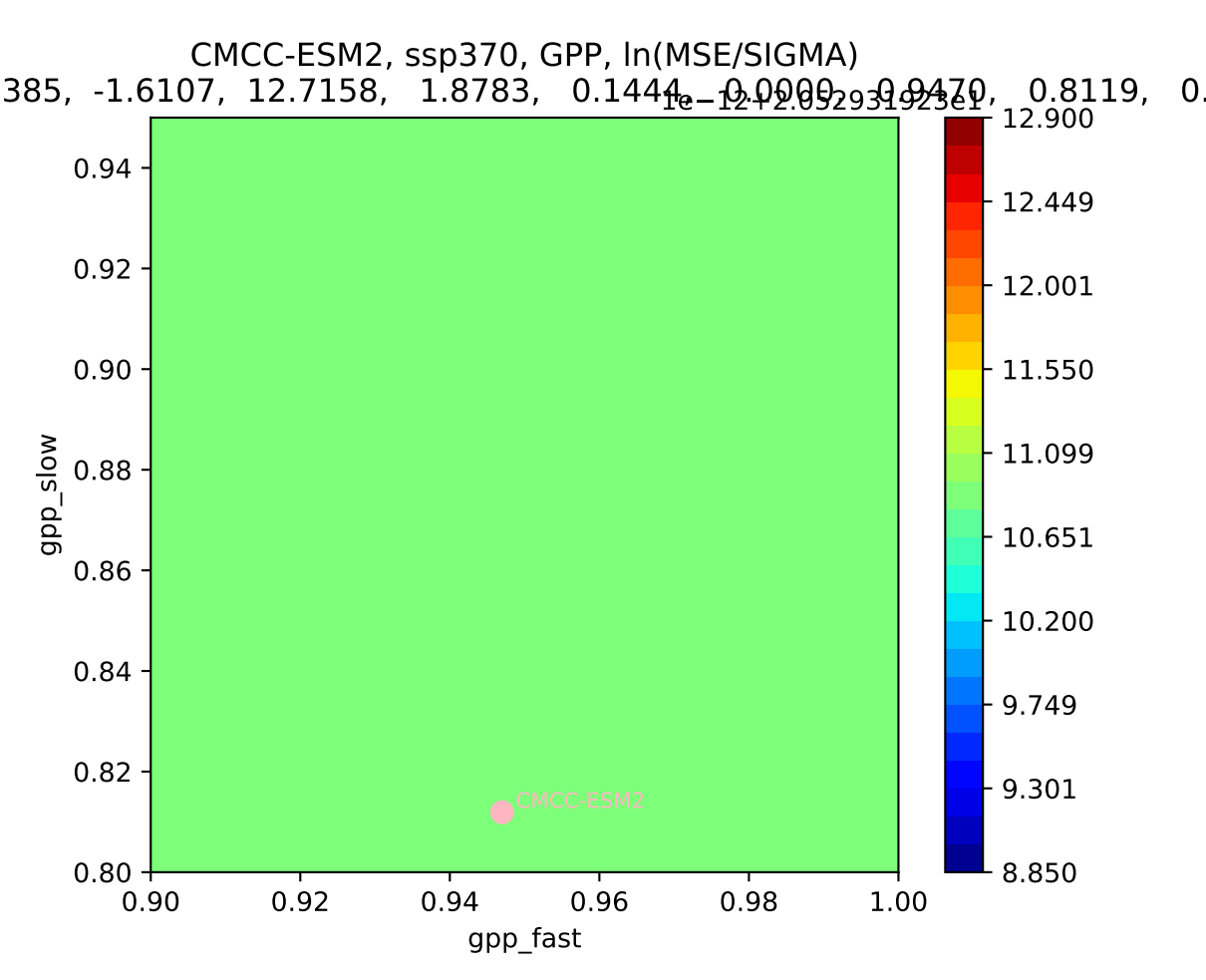

CMCC-ESM2, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

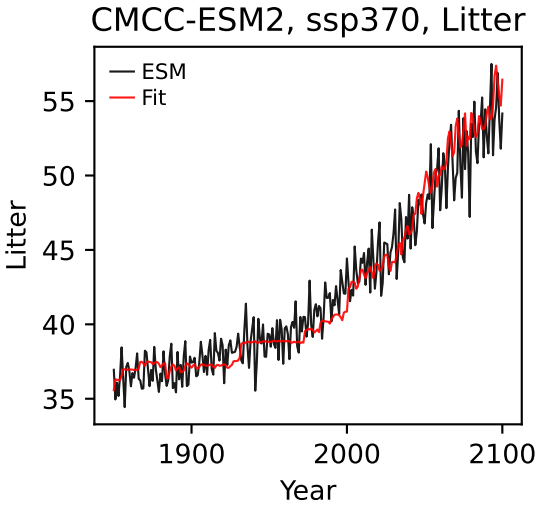

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
CMCC-ESM2
gpp_t_e
gpp_t_l
23.10
22.65
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05

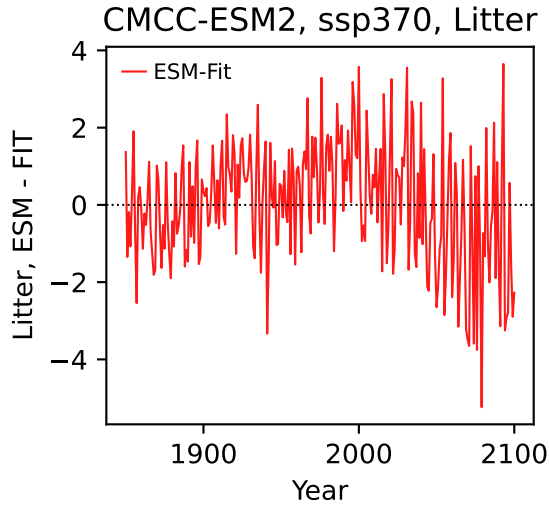

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
gpp_c_half
gpp_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.00
21.76
21.52
21.28
21.04
20.80
20.56
20.32
20.08

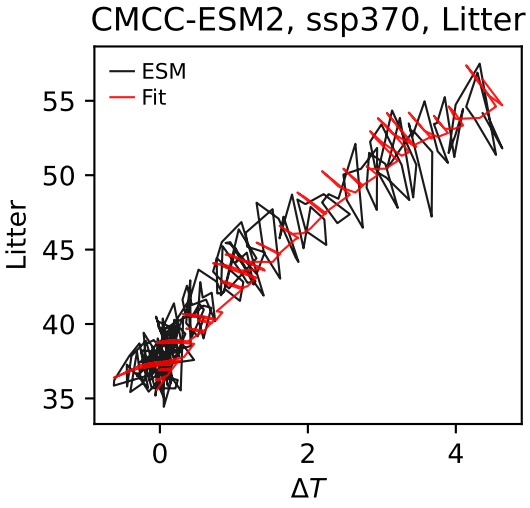

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
gpp_hyst
gpp_c_e
CMCC-ESM2
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.5
21.9
21.3
20.7
20.1
19.5
18.9
18.3

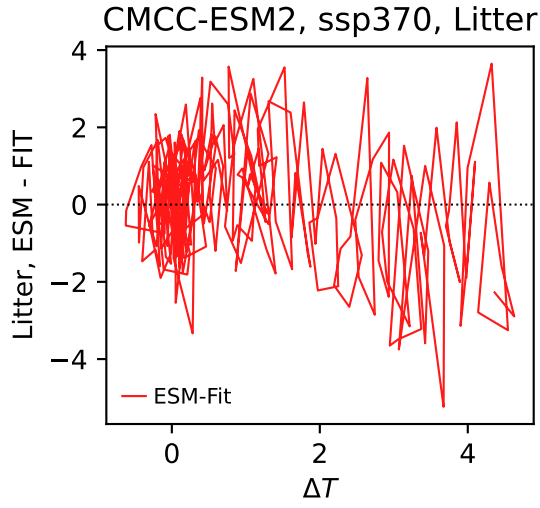

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
1e−12+2.052931923e1
12.900
12.449
12.001
11.550
11.099
10.651
10.200
9.749
9.301
8.850
CMCC-ESM2
0.04
0.02
0.00
−0.02
−0.04
gpp_c_tan2
−0.04
−0.02
0.00
0.02
0.04
gpp_c_tan

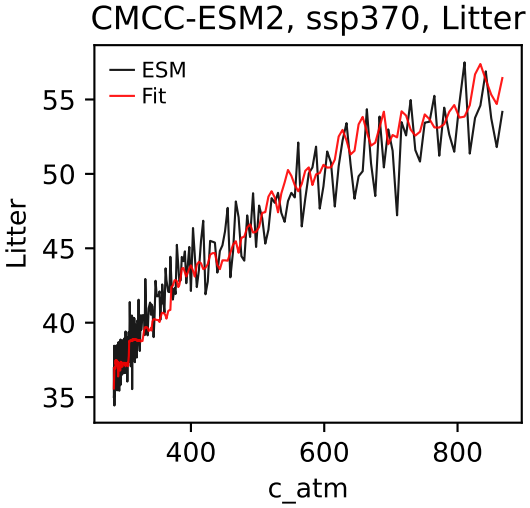

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
1e−12+2.052931923e1
12.900
12.449
12.001
11.550
11.099
10.651
10.200
9.749
9.301
8.850
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
gpp_slow
CMCC-ESM2
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast

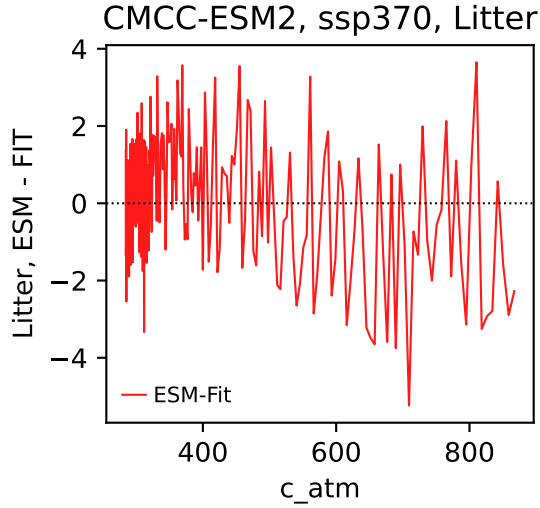

CMCC-ESM2, ssp370, Litter
ESM
Fit
Litter
Year

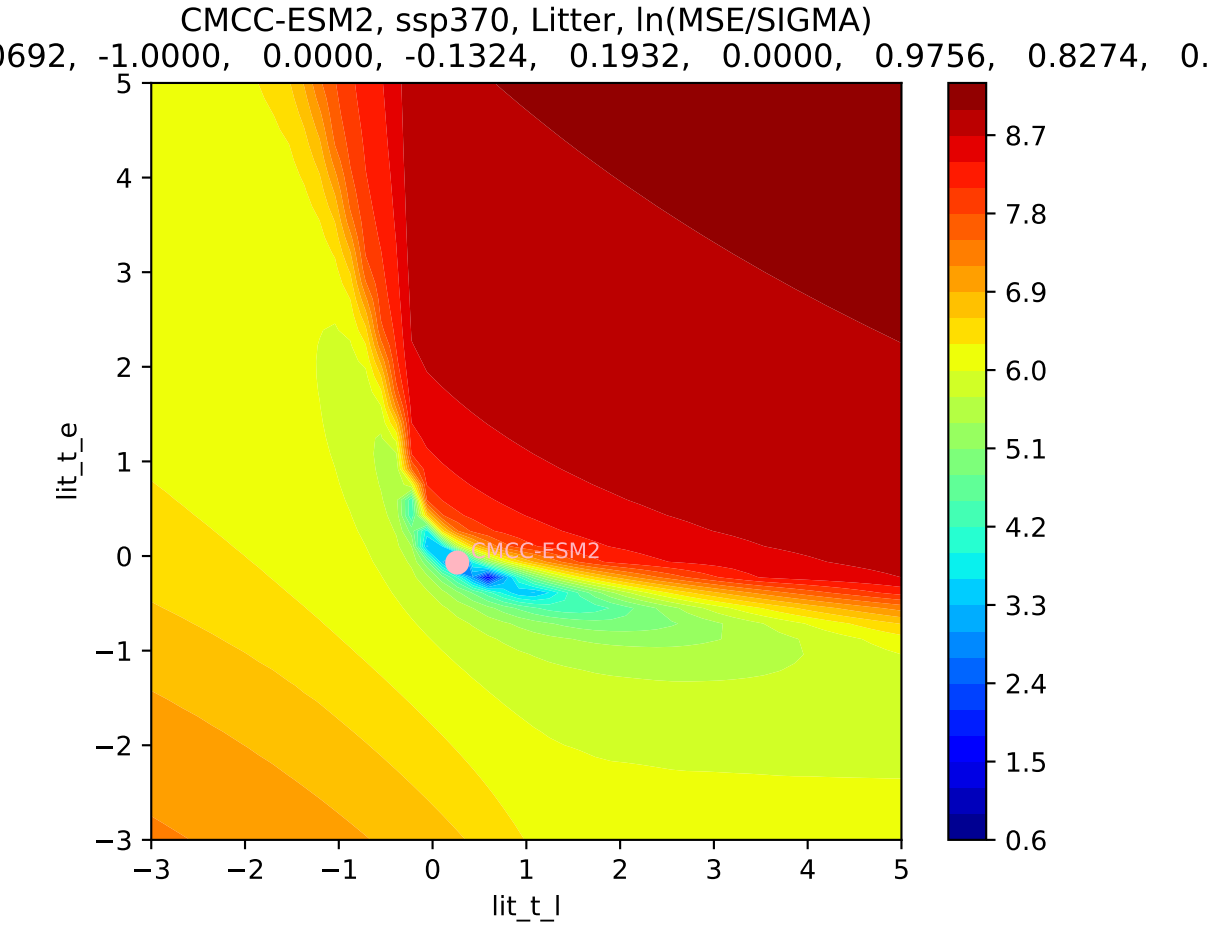

CMCC-ESM2, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
Year

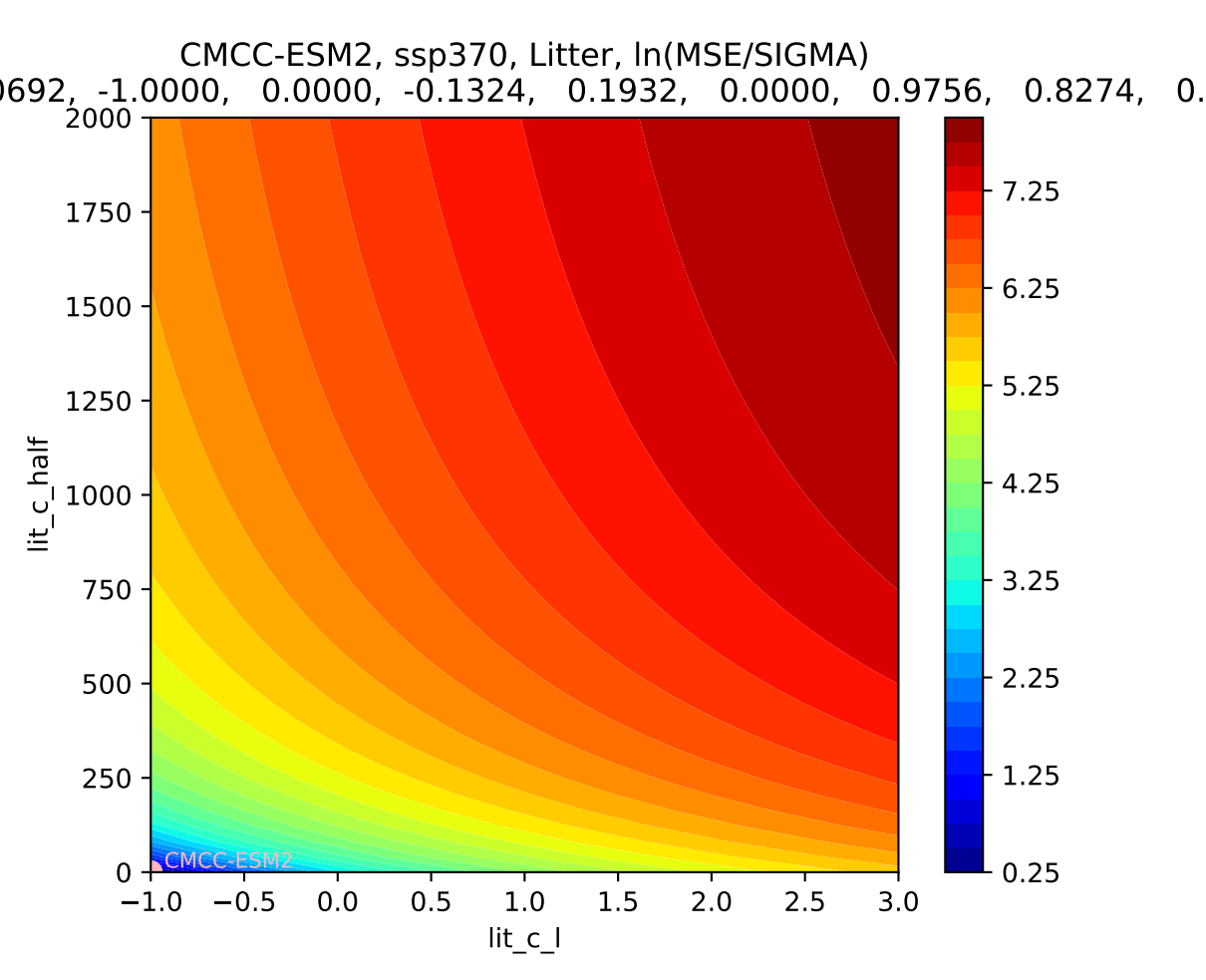

CMCC-ESM2, ssp370, Litter
ESM
Fit
Litter
ΔT

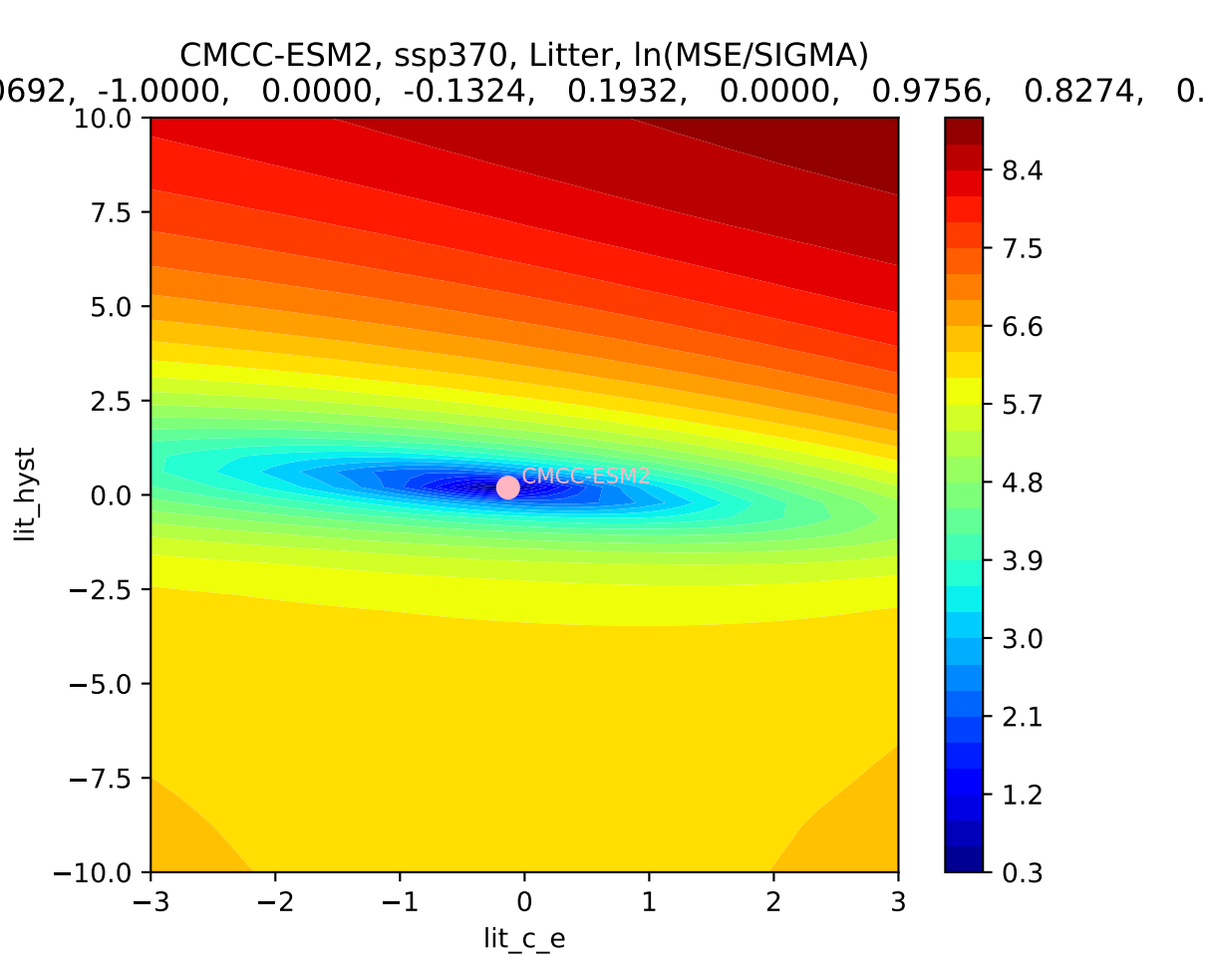

CMCC-ESM2, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

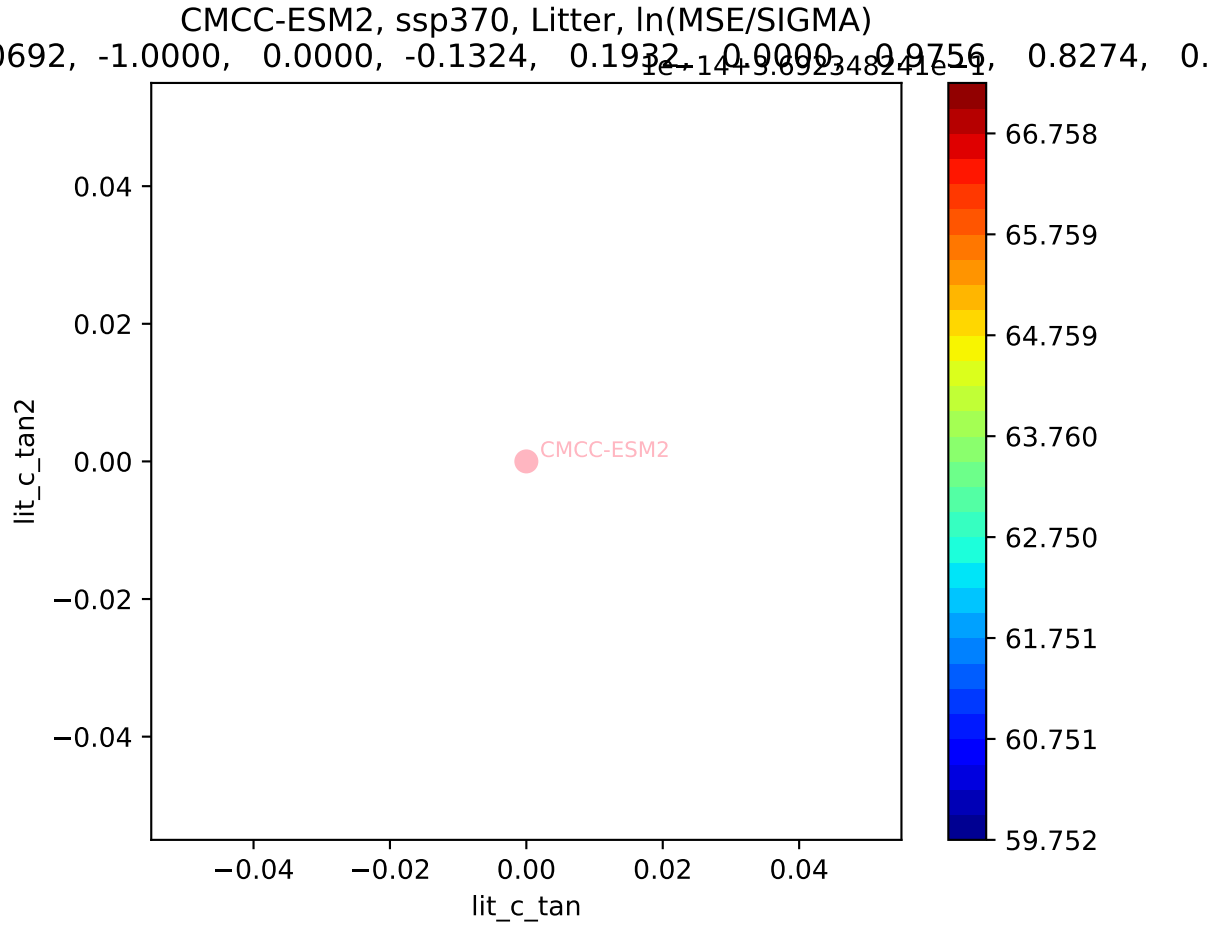

CMCC-ESM2, ssp370, Litter
ESM
Fit
Litter
c_atm

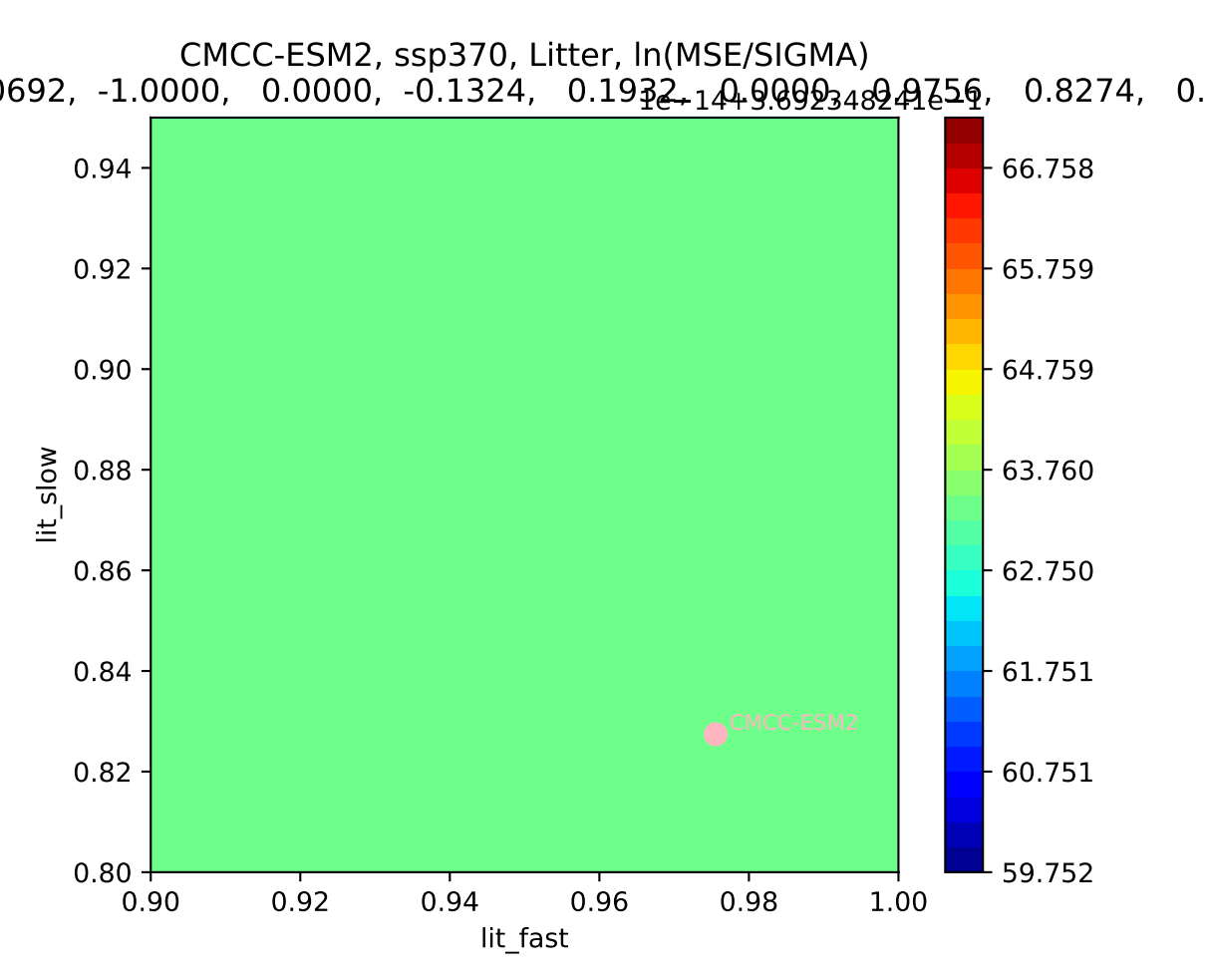

CMCC-ESM2, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

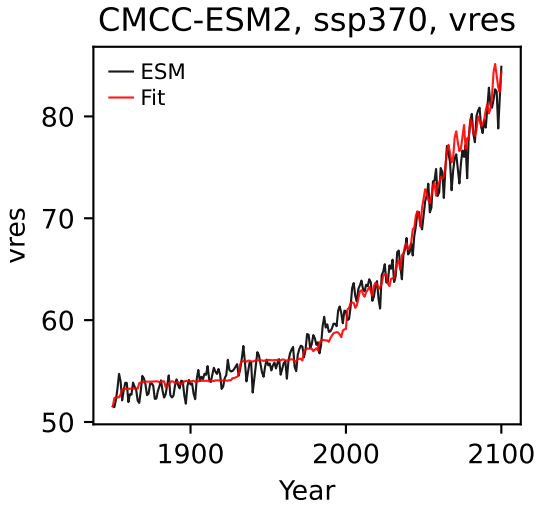

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
CMCC-ESM2
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5
0.6

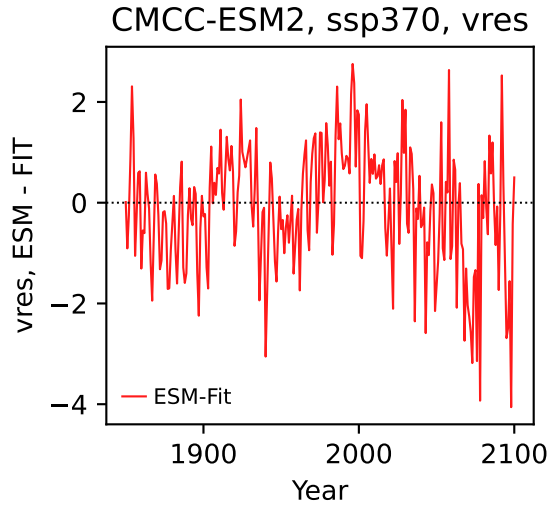

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
lit_c_half
lit_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

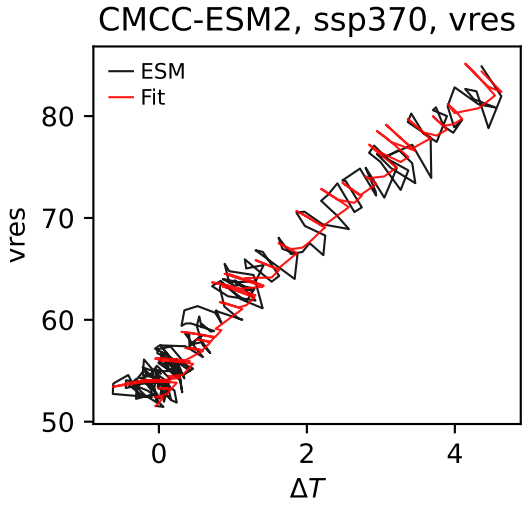

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
CMCC-ESM2
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2
0.3

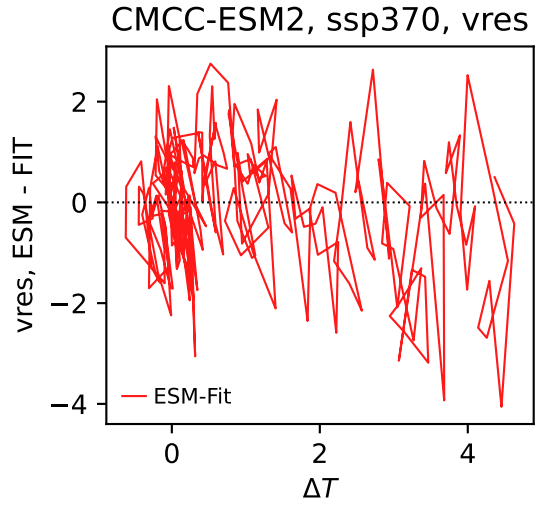

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
1e-14+3.692348241e-1
CMCC-ESM2
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
66.758
65.759
64.759
63.760
62.750
61.751
60.751
59.752

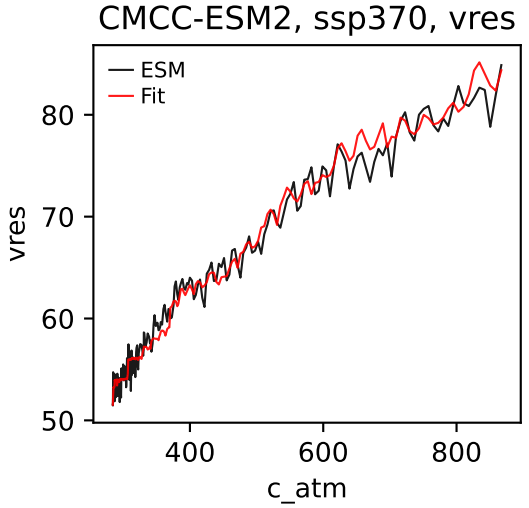

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
1e-14+3.692348241e-1
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
lit_slow
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
CMCC-ESM2
66.758
65.759
64.759
63.760
62.750
61.751
60.751
59.752

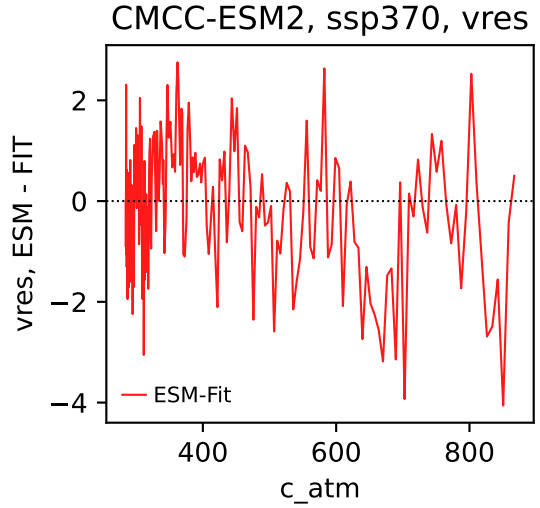

CMCC-ESM2, ssp370, vres
ESM
Fit
vres
Year

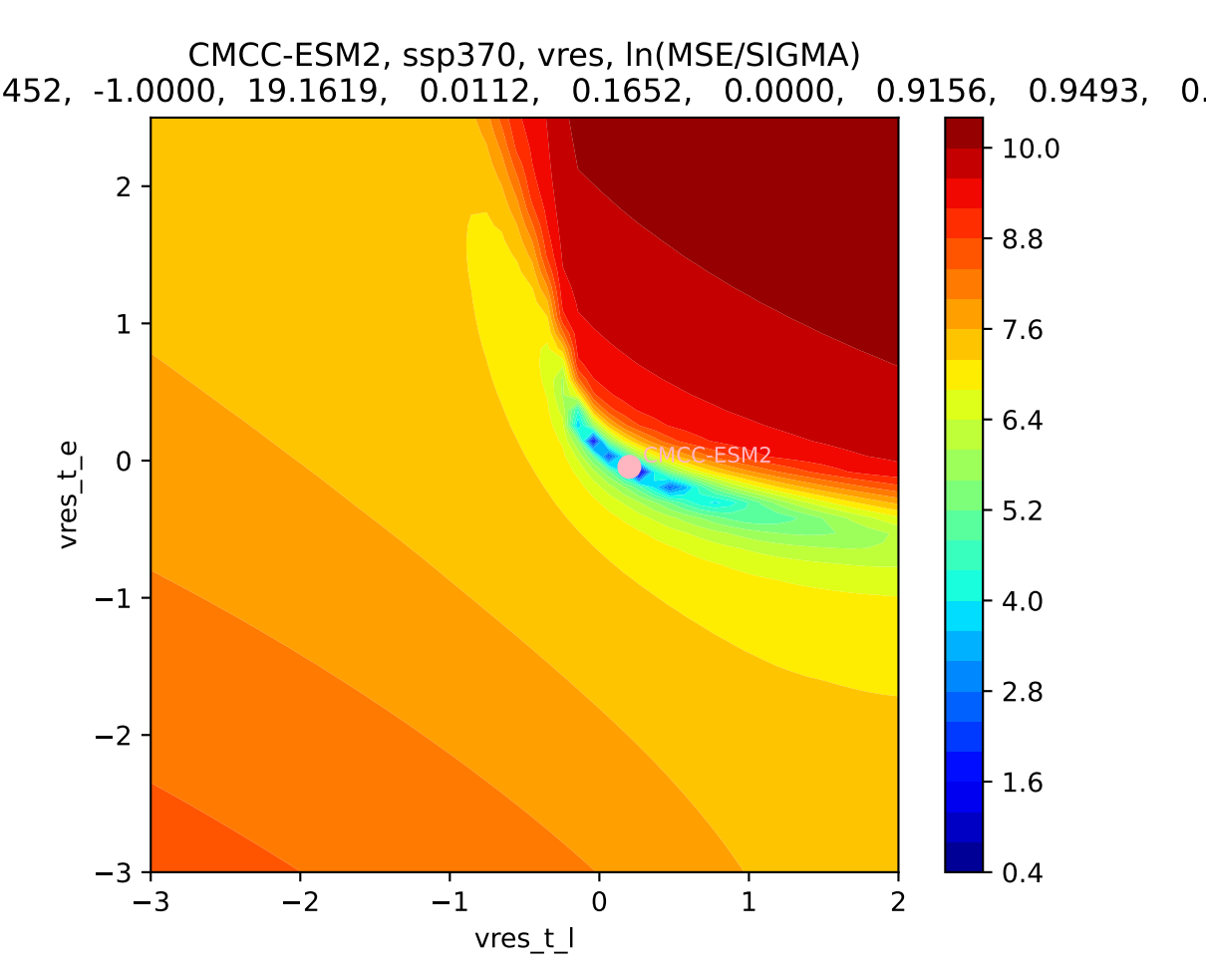

CMCC-ESM2, ssp370, vres
vres, ESM - FIT
ESM-Fit
Year

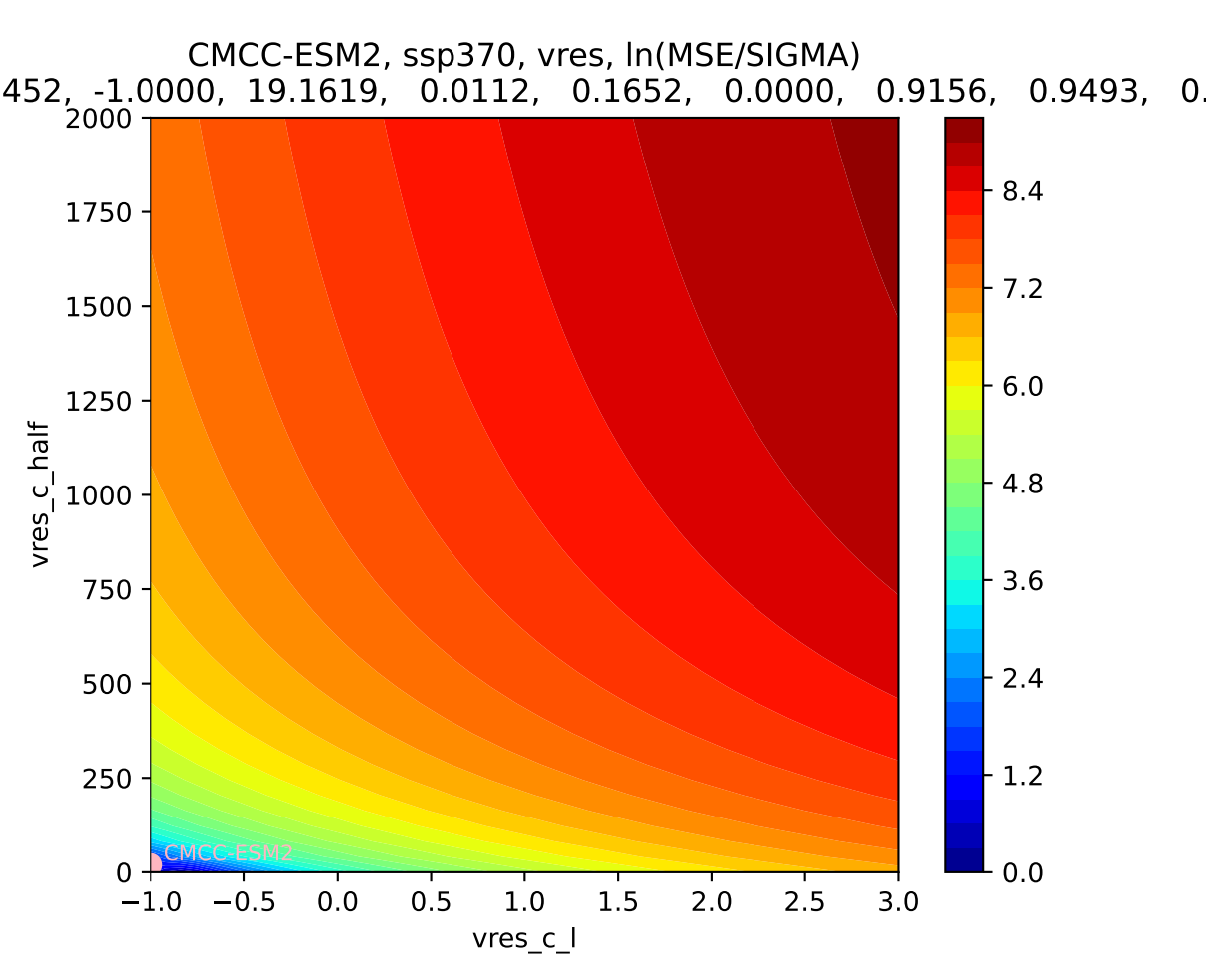

CMCC-ESM2, ssp370, vres
ESM
Fit
vres
ΔT

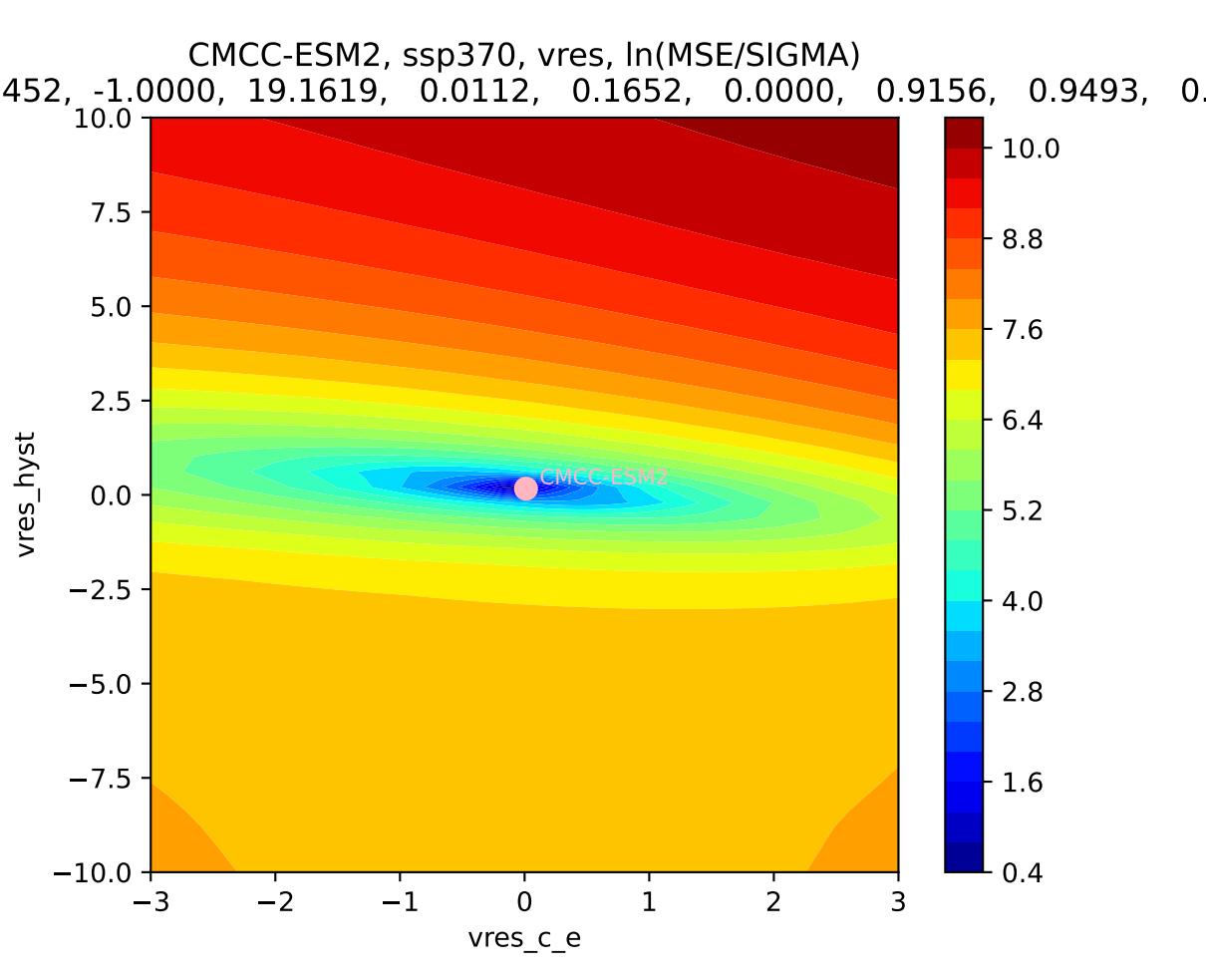

CMCC-ESM2, ssp370, vres
vres, ESM - FIT
ESM-Fit
ΔT

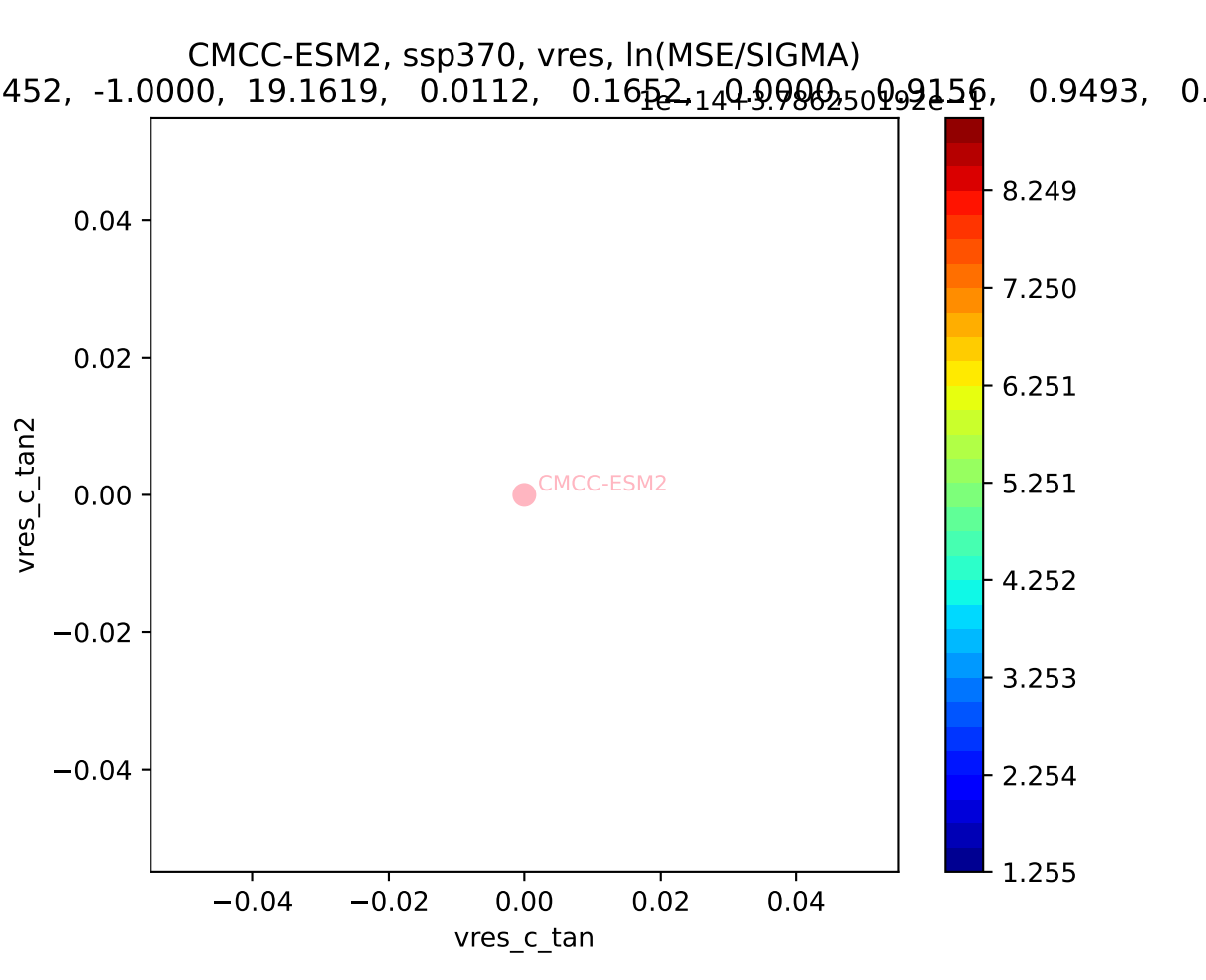

CMCC-ESM2, ssp370, vres
ESM
Fit
vres
c_atm

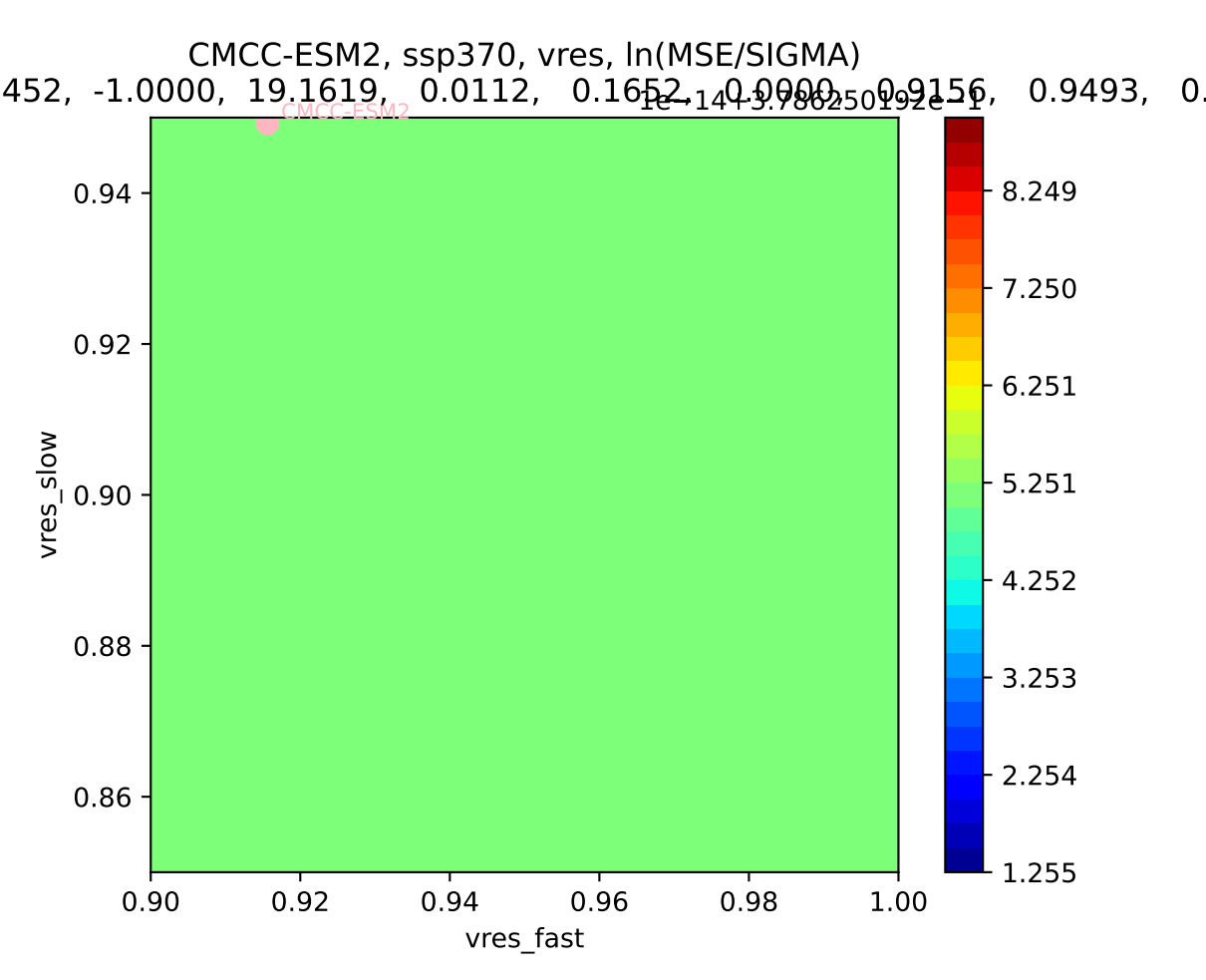

CMCC-ESM2, ssp370, vres
vres, ESM - FIT
ESM-Fit
c_atm

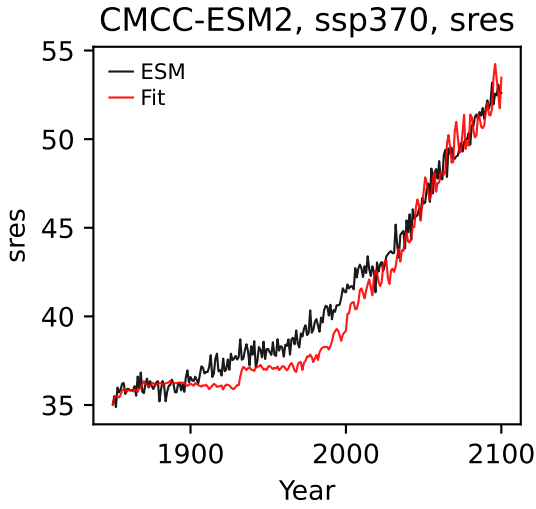

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
CMCC-ESM2
vres_t_e
vres_t_l
−3
−2
−1
0
1
2
10.0
8.8
7.6
6.4
5.2
4.0
2.8
1.6
0.4

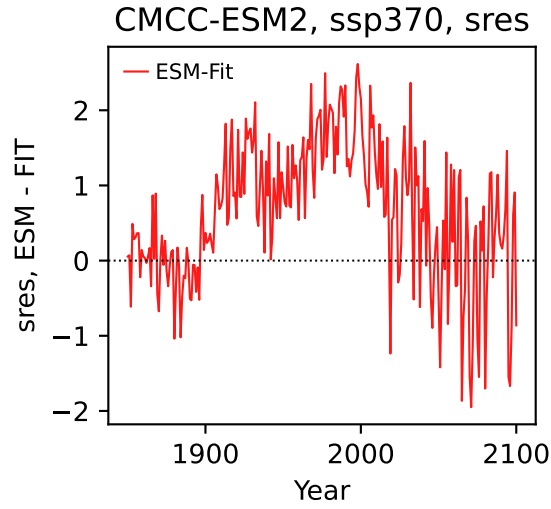

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
vres_c_half
vres_c_l
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0
CMCC-ESM2

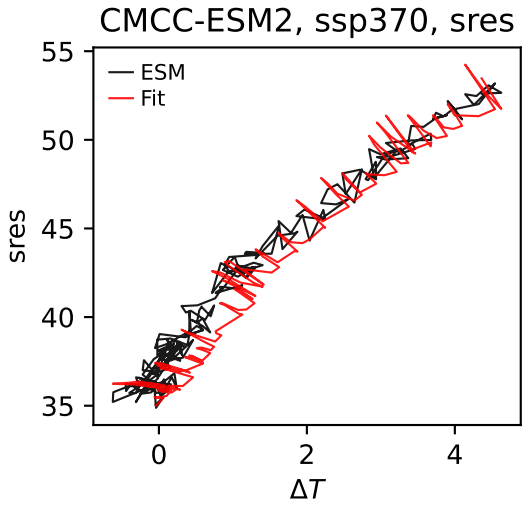

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
CMCC-ESM2
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.0
8.8
7.6
6.4
5.2
4.0
2.8
1.6
0.4

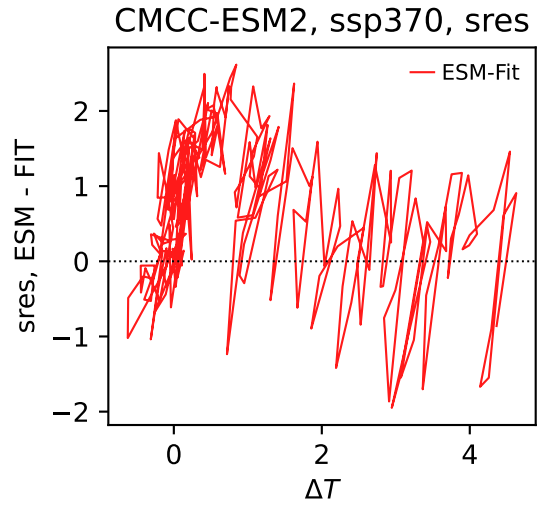

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
1e−14+3.786250192e−1
CMCC-ESM2
vres_c_tan2
vres_c_tan
0.04
0.02
0.00
−0.02
−0.04
8.249
7.250
6.251
5.251
4.252
3.253
2.254
1.255

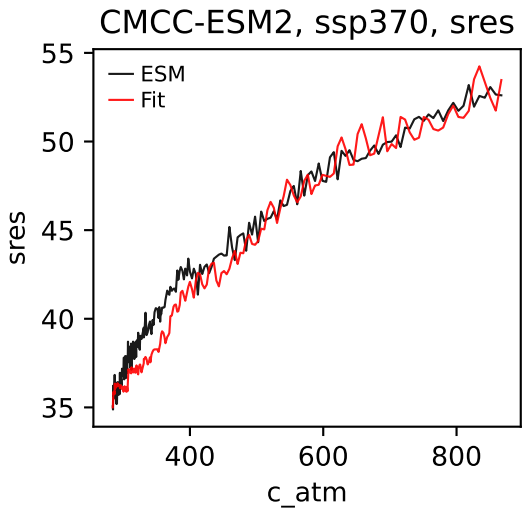

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
1e−14+3.786250192e−1
CMCC-ESM2
0.94
0.92
0.90
0.88
0.86
vres_slow
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast
8.249
7.250
6.251
5.251
4.252
3.253
2.254
1.255

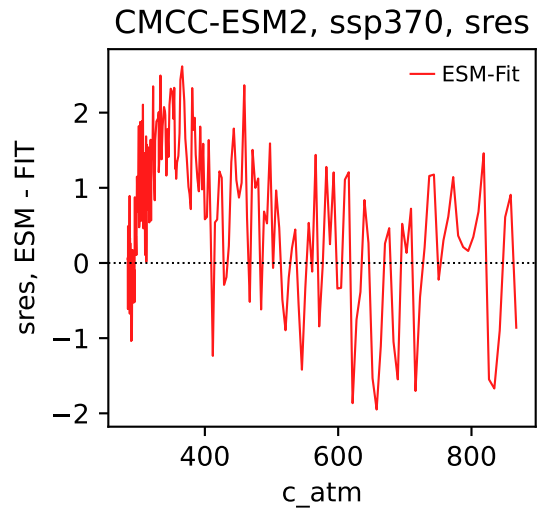

CMCC-ESM2, ssp370, sres
ESM
Fit
sres
Year

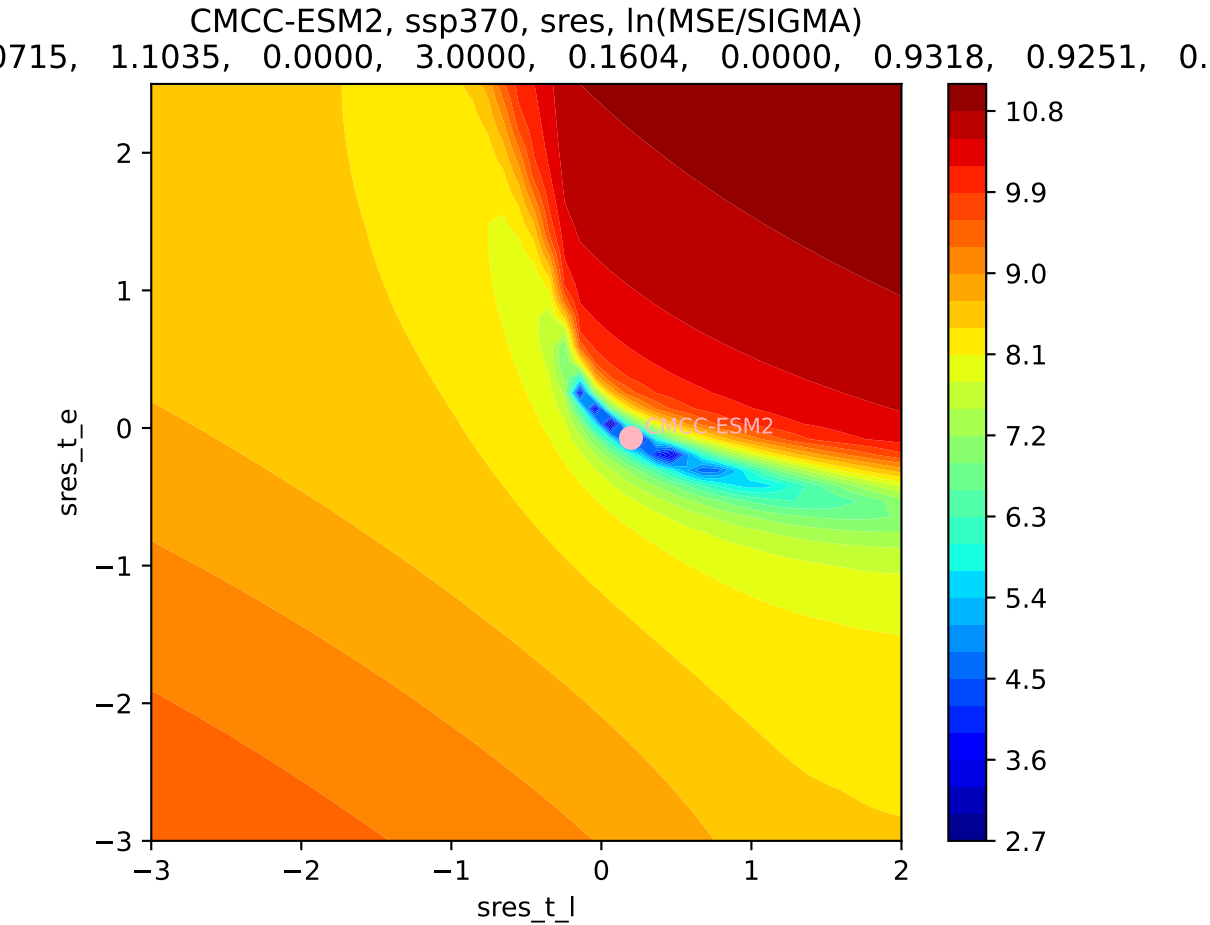

CMCC-ESM2, ssp370, sres
ESM-Fit
sres, ESM - FIT
Year

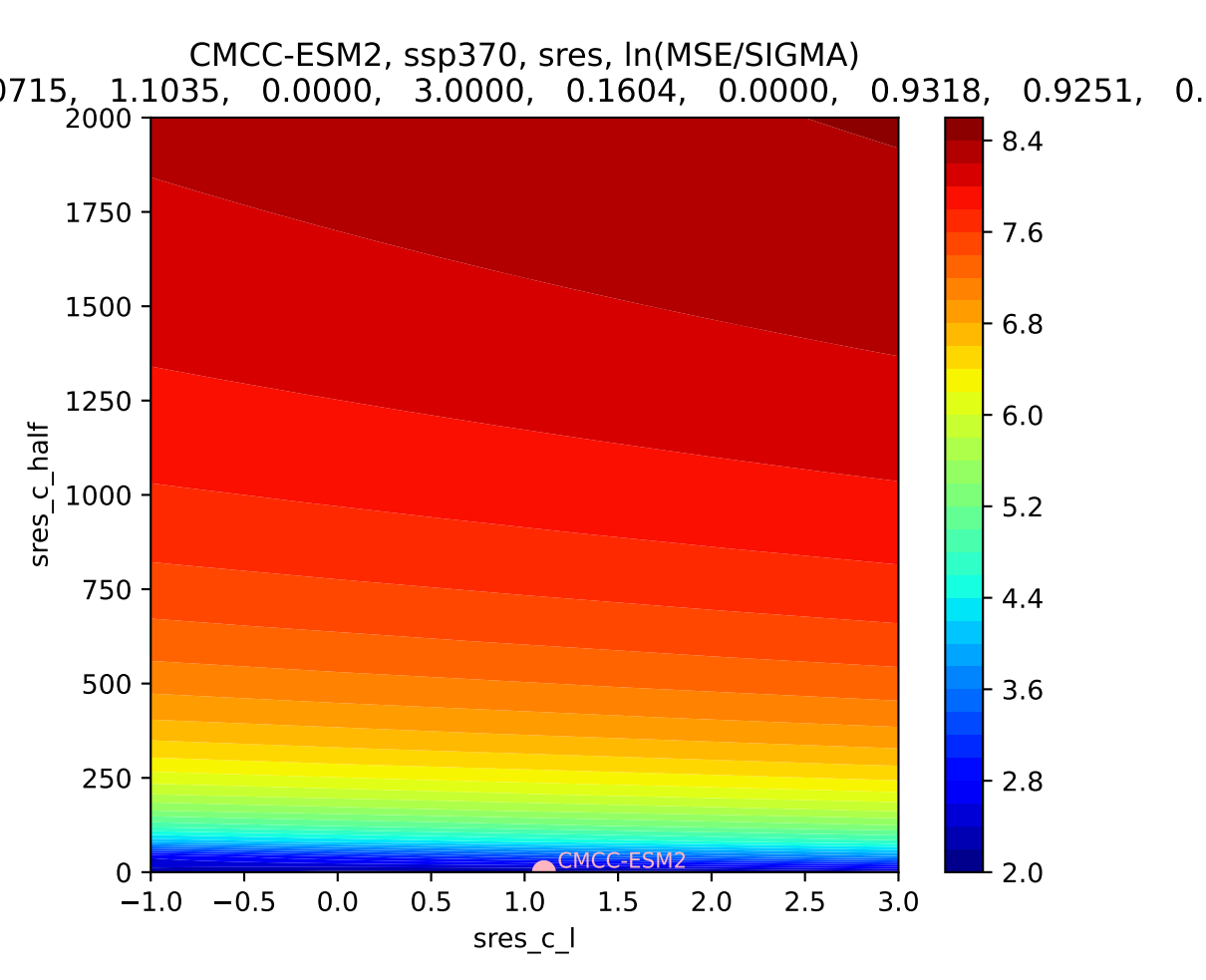

CMCC-ESM2, ssp370, sres
ESM
Fit
sres
ΔT

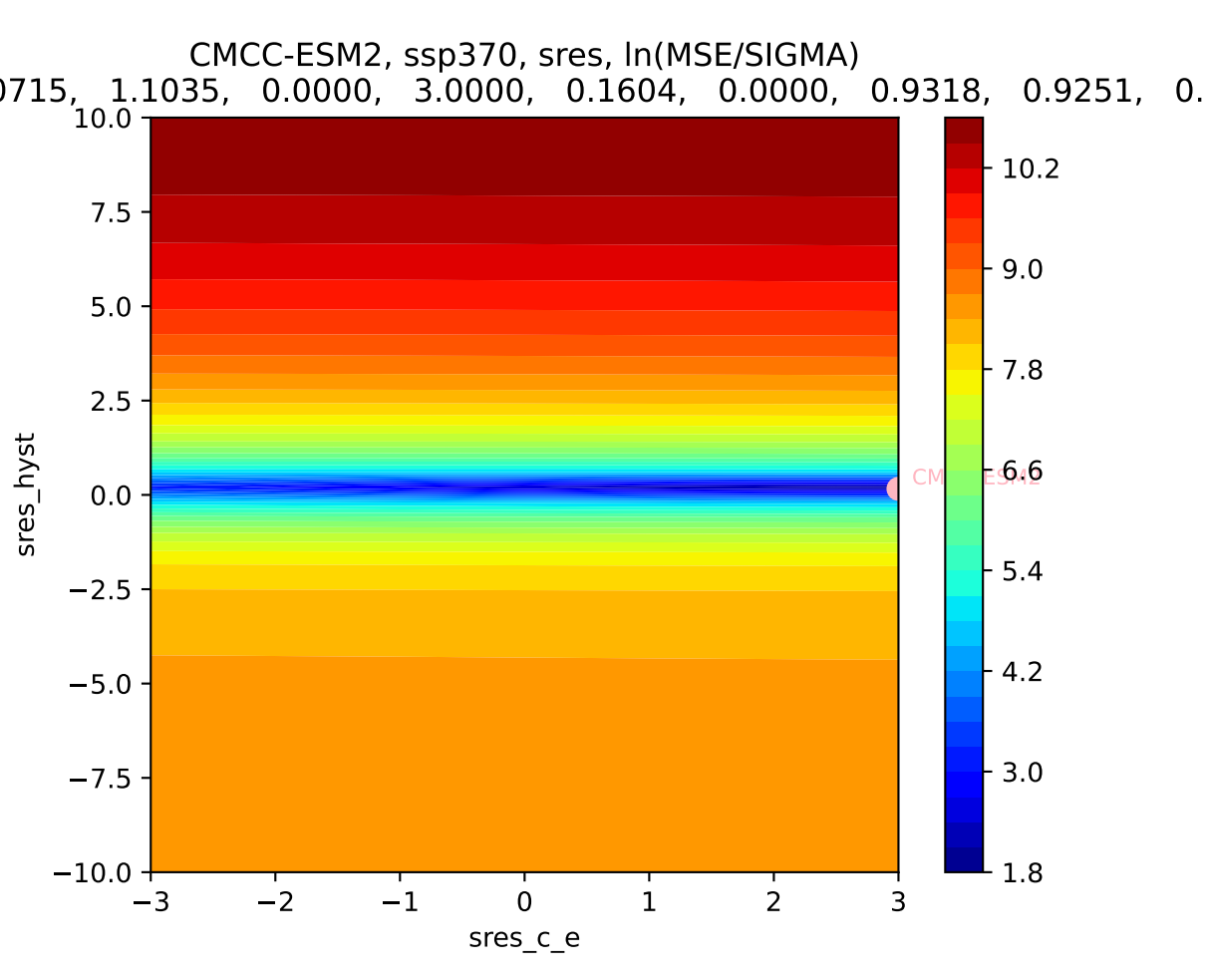

CMCC-ESM2, ssp370, sres
ESM-Fit
sres, ESM - FIT
ΔT

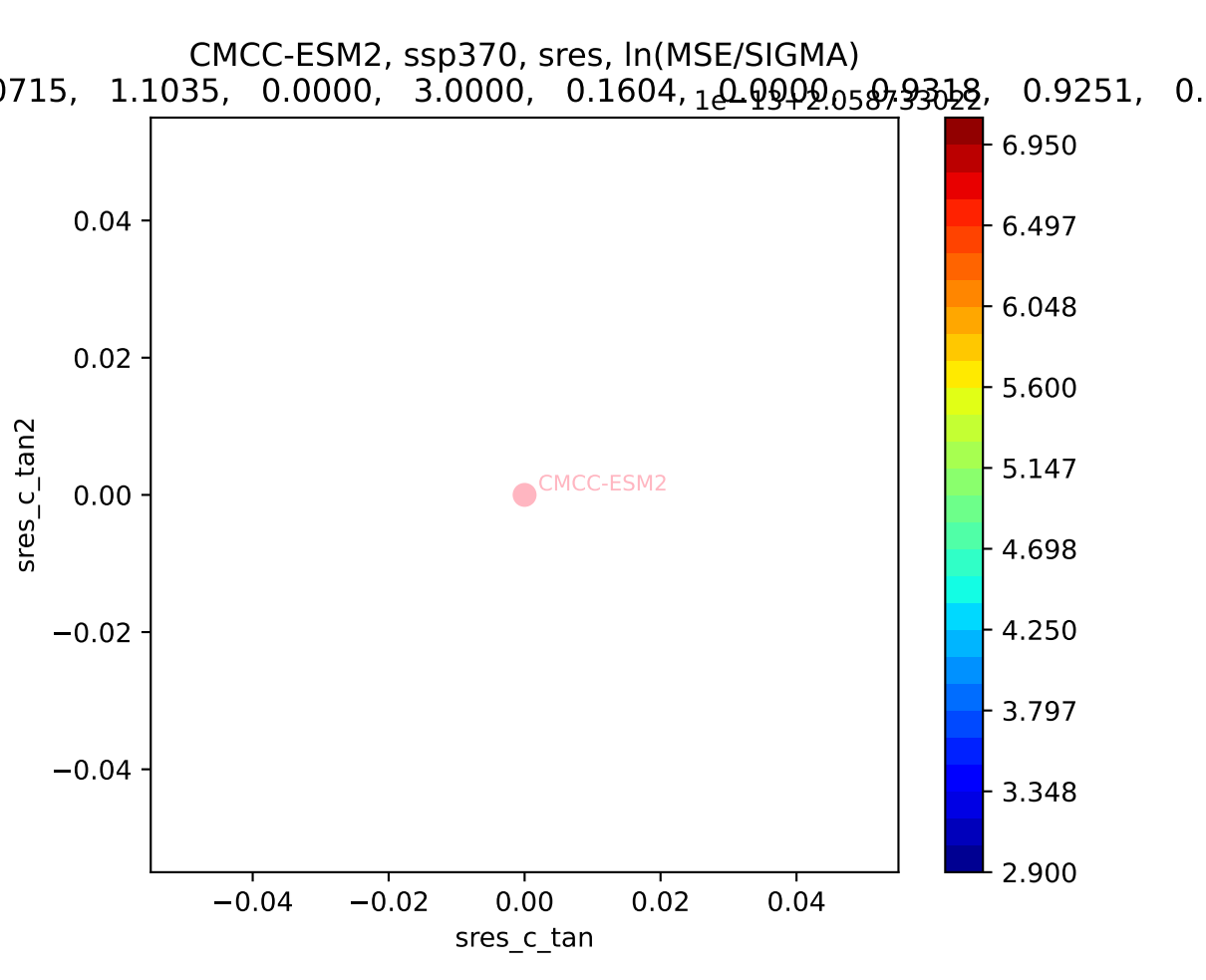

CMCC-ESM2, ssp370, sres
ESM
Fit
sres
c_atm

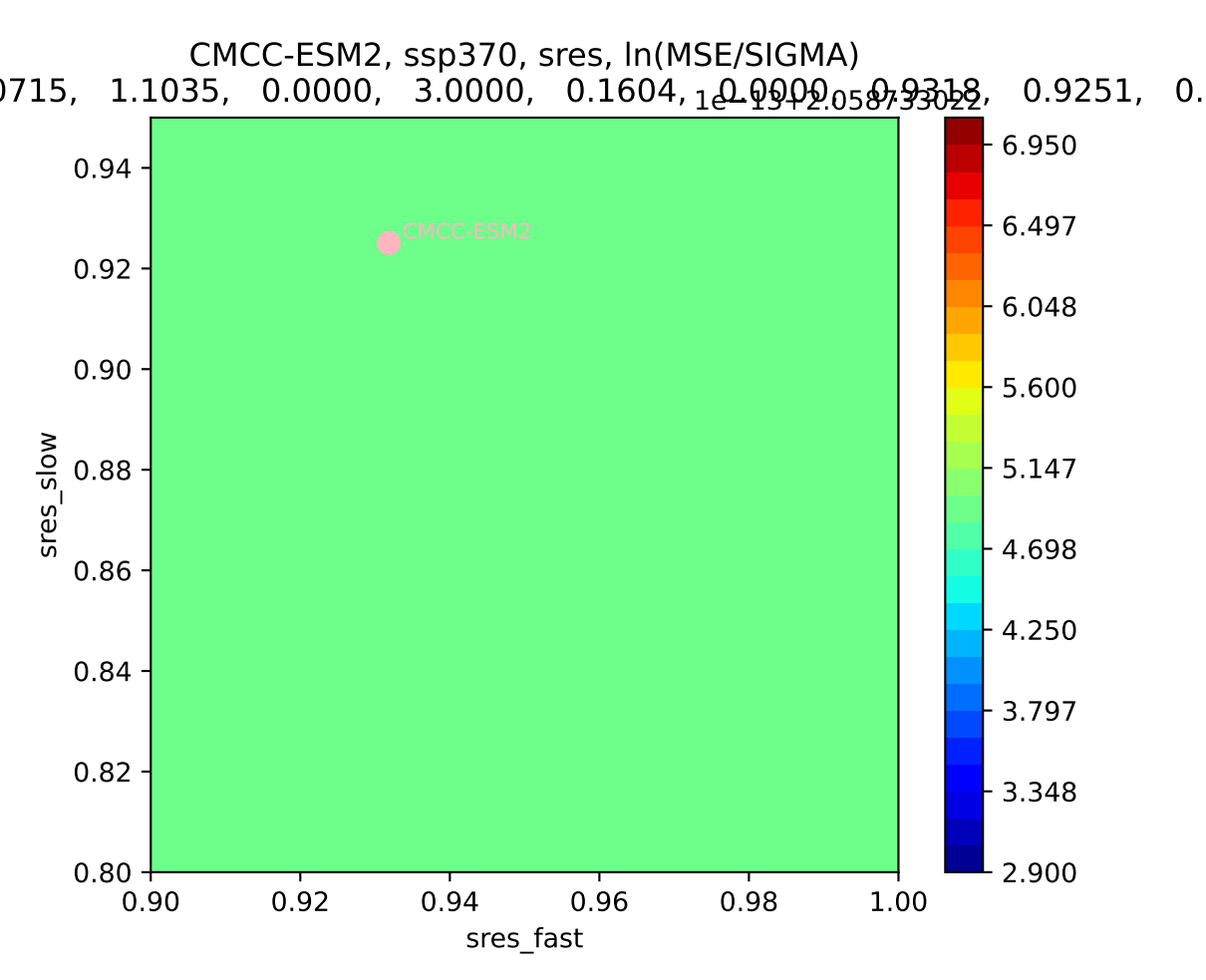

CMCC-ESM2, ssp370, sres
ESM-Fit
sres, ESM - FIT
c_atm

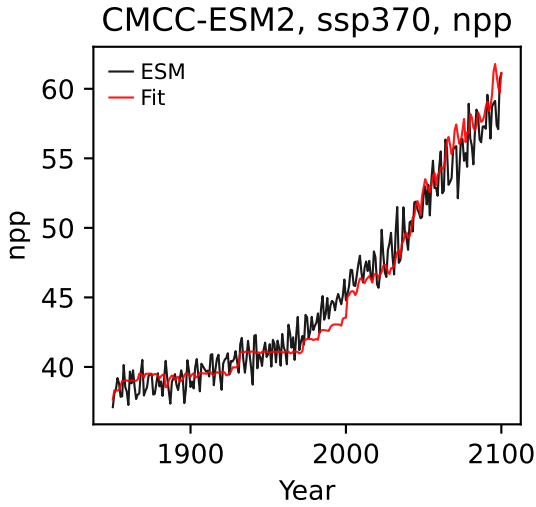

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
CMCC-ESM2
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7

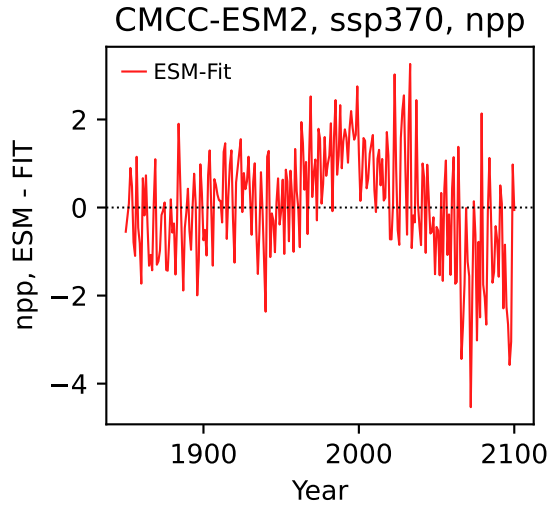

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
sres_c_half
sres_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.4
7.6
6.8
6.0
5.2
4.4
3.6
2.8
2.0

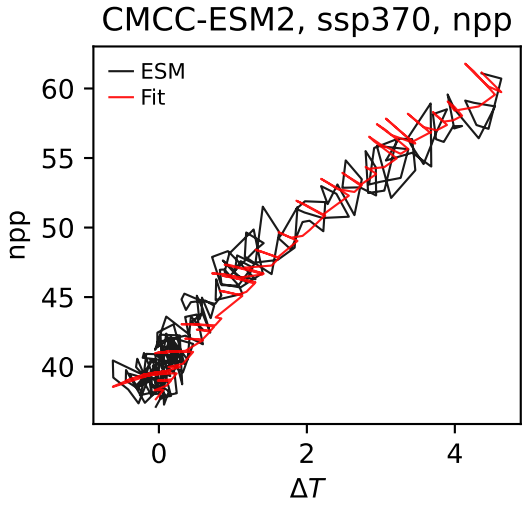

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8

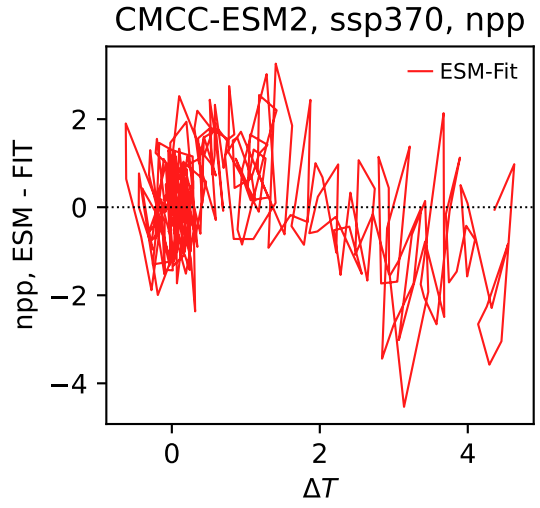

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
1e−13+2.058733022
CMCC-ESM2
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
6.950
6.497
6.048
5.600
5.147
4.698
4.250
3.797
3.348
2.900

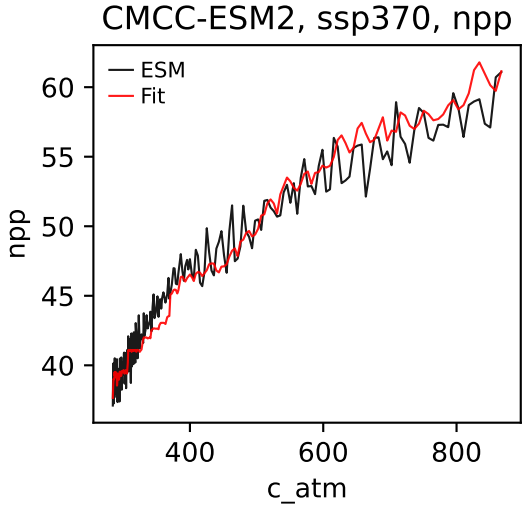

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
1e−13+2.058733022
CMCC-ESM2
sres_slow
sres_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
6.950
6.497
6.048
5.600
5.147
4.698
4.250
3.797
3.348
2.900

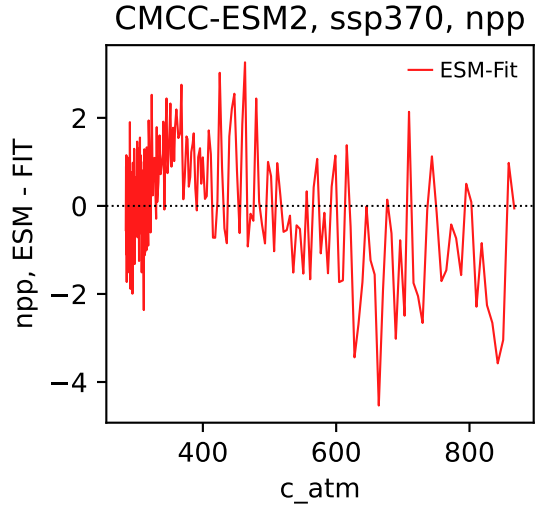

CMCC-ESM2, ssp370, npp
ESM
Fit
npp
Year

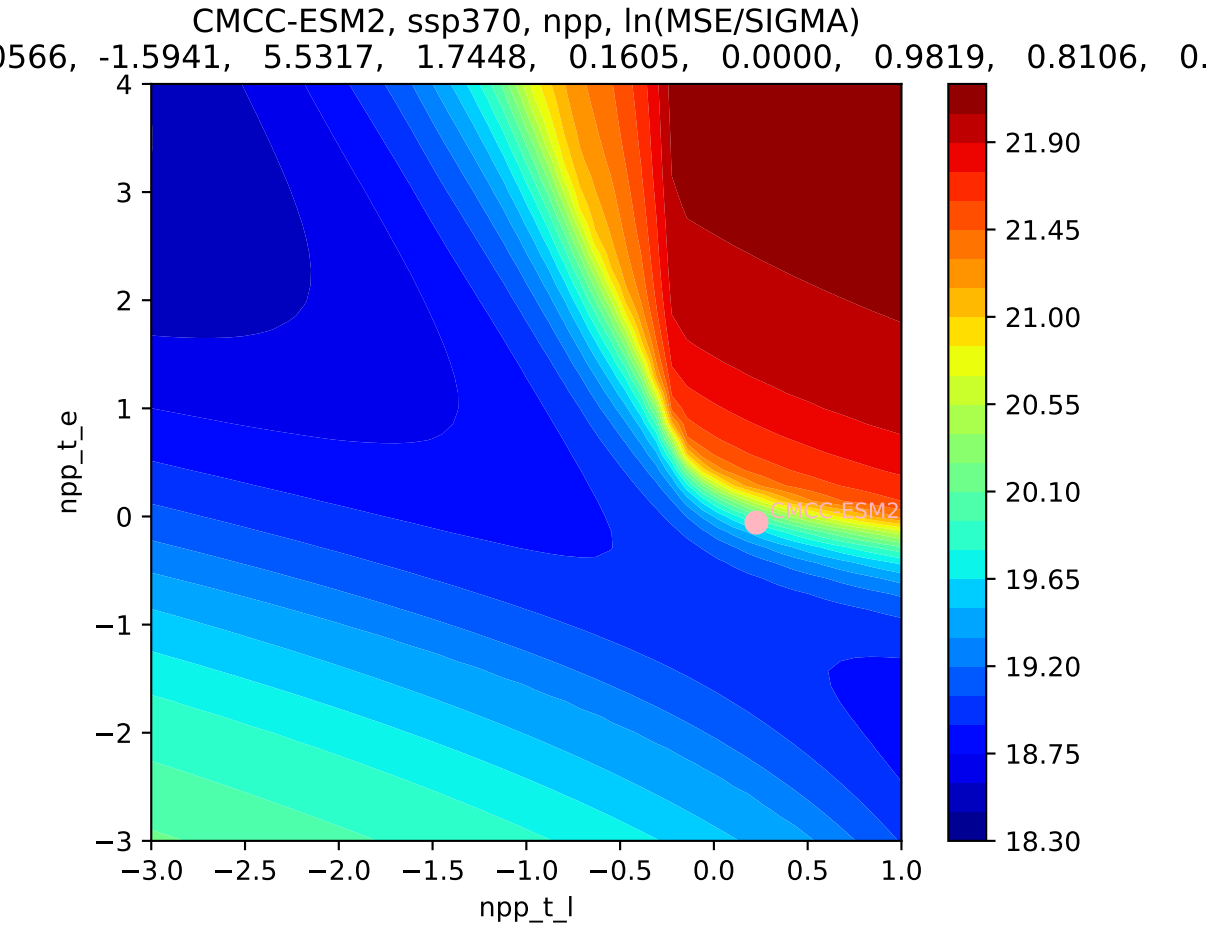

CMCC-ESM2, ssp370, npp
ESM-Fit
npp, ESM - FIT
Year

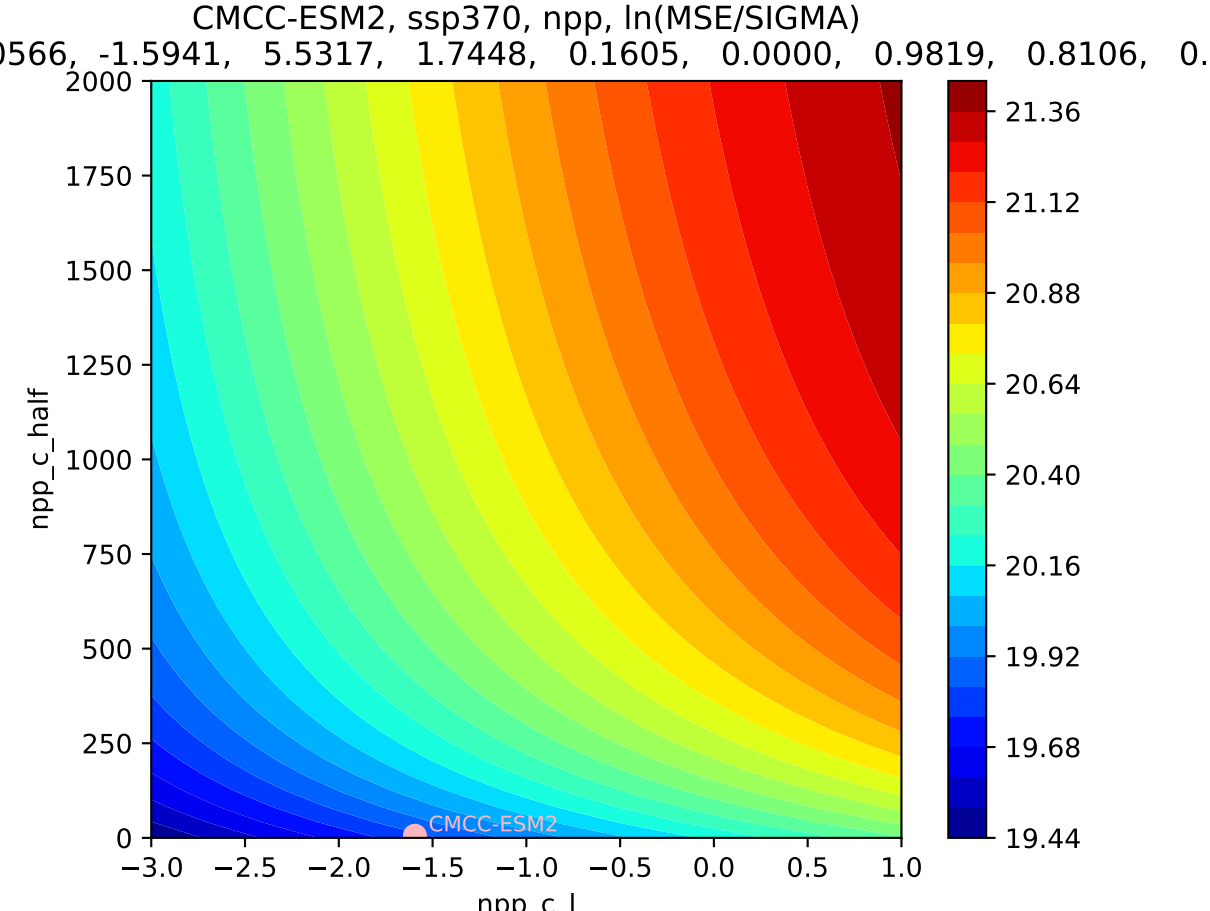

CMCC-ESM2, ssp370, npp
ESM
Fit
npp
ΔT

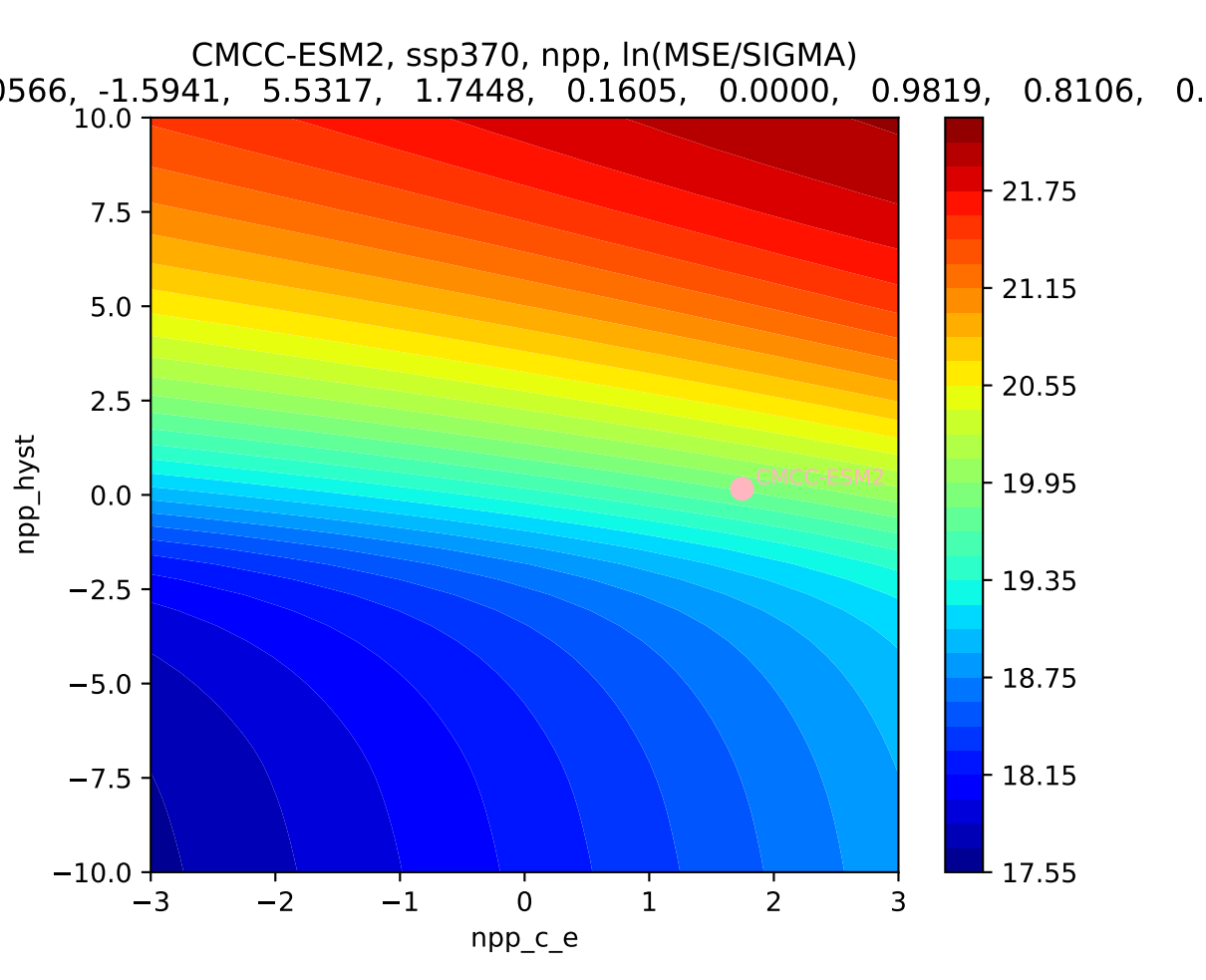

CMCC-ESM2, ssp370, npp
ESM-Fit
npp, ESM - FIT
ΔT

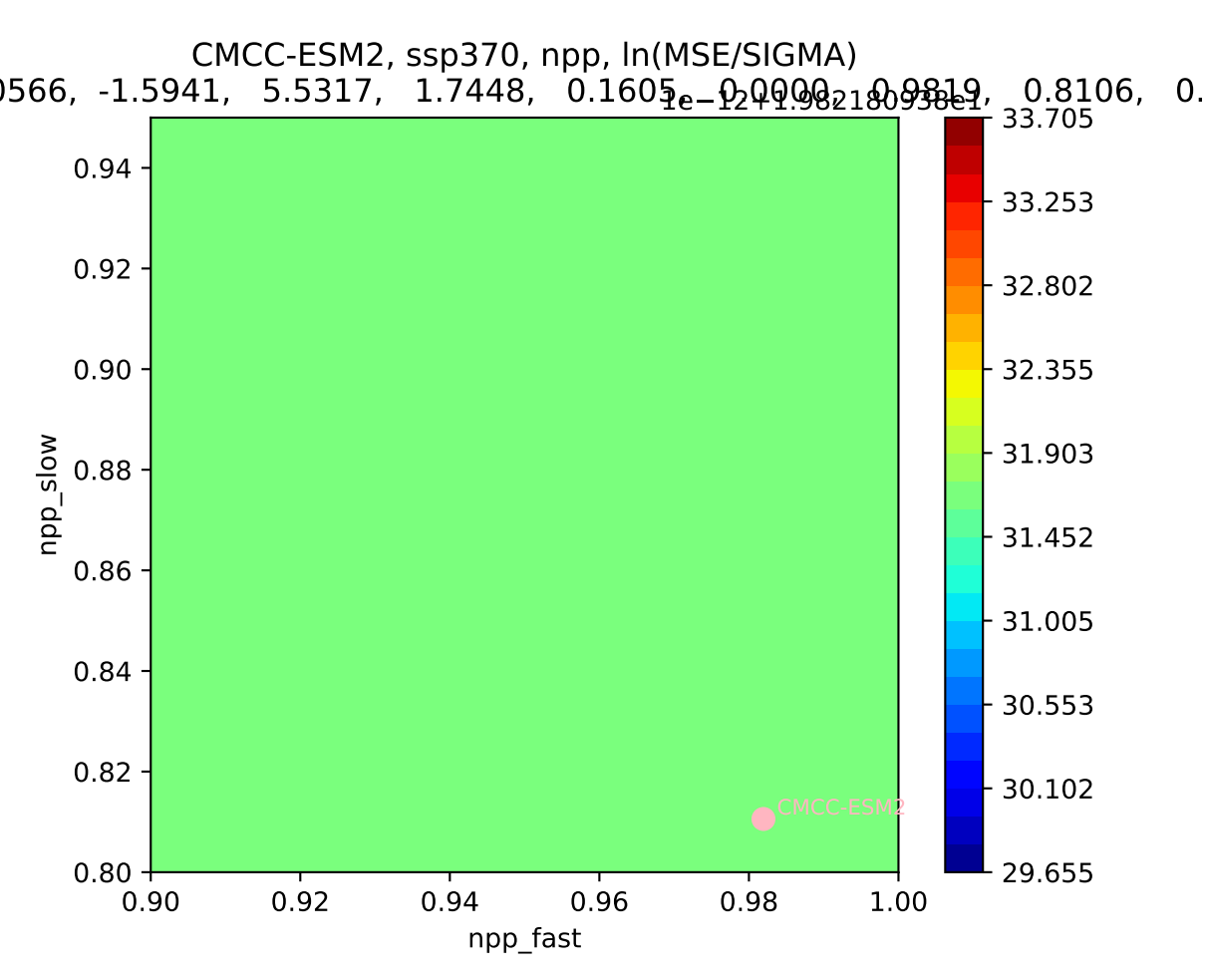

CMCC-ESM2, ssp370, npp
ESM
Fit
npp
c_atm

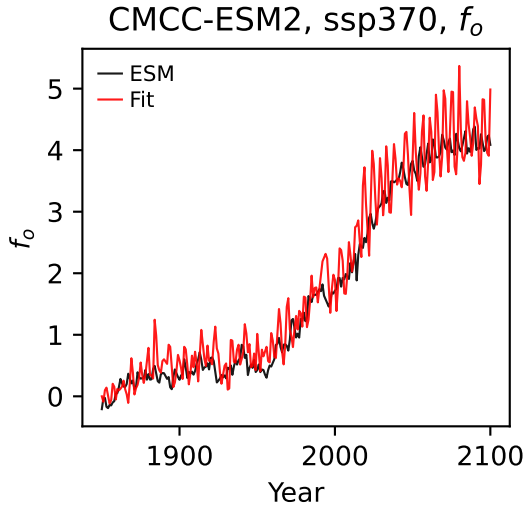

CMCC-ESM2, ssp370, npp
ESM-Fit
npp, ESM - FIT
c_atm

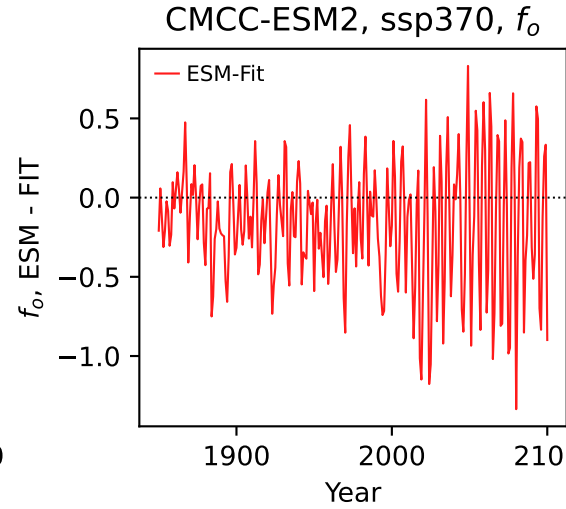

CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
0566, -1.5941, 5.5317, 1.7448, 0.1605, 0.0000, 0.9819, 0.8106, 0.
CMCC-ESM2
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75
18.30

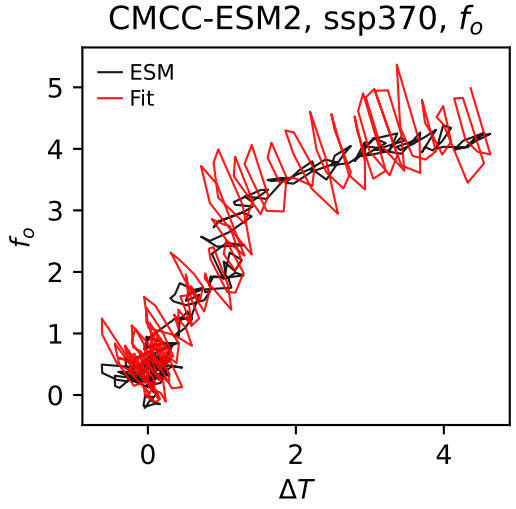

CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
0566, -1.5941, 5.5317, 1.7448, 0.1605, 0.0000, 0.9819, 0.8106, 0.
npp_c_half
2000
1750
1500
1250
1000
750
500
250
0
CMCC-ESM2
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
21.36
21.12
20.88
20.64
20.40
20.16
19.92
19.68
19.44

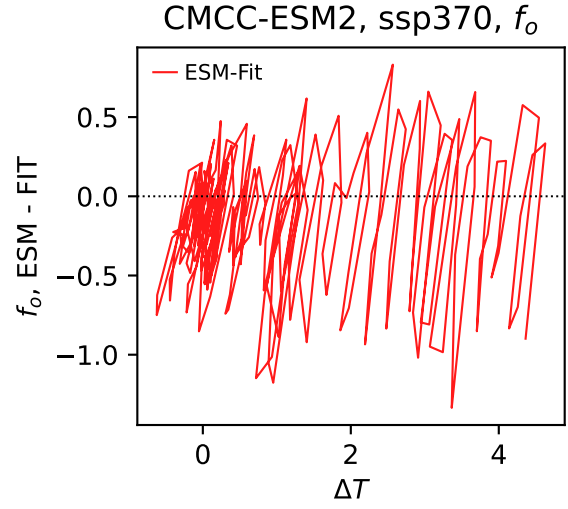

CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
0566, -1.5941, 5.5317, 1.7448, 0.1605, 0.0000, 0.9819, 0.8106, 0.
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
npp_hyst
−3
−2
−1
0
1
2
3
npp_c_e
CMCC-ESM2
21.75
21.15
20.55
19.95
19.35
18.75
18.15
17.55

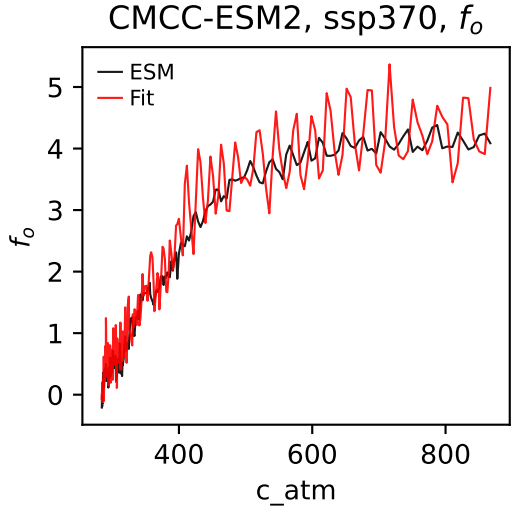

CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
0566, -1.5941, 5.5317, 1.7448, 0.1605, 0.0000, 0.9819, 0.8106, 0.
1e−12+1.9821809386e1
33.705
33.253
32.802
32.355
31.903
31.452
31.005
30.553
30.102
29.655
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
npp_slow
CMCC-ESM2
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast

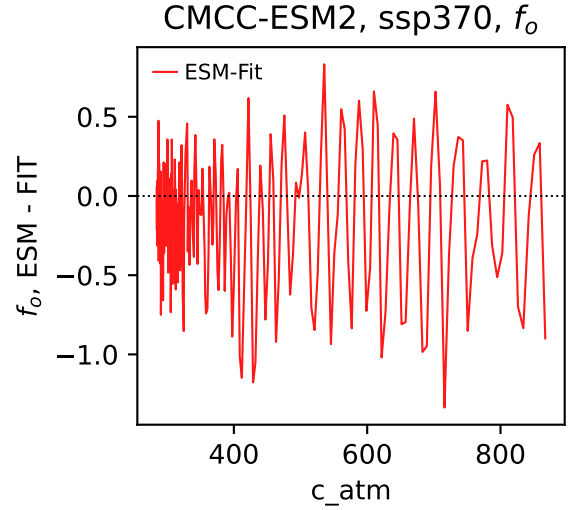

CMCC-ESM2, ssp370, f_o
ESM
Fit
f_o
Year

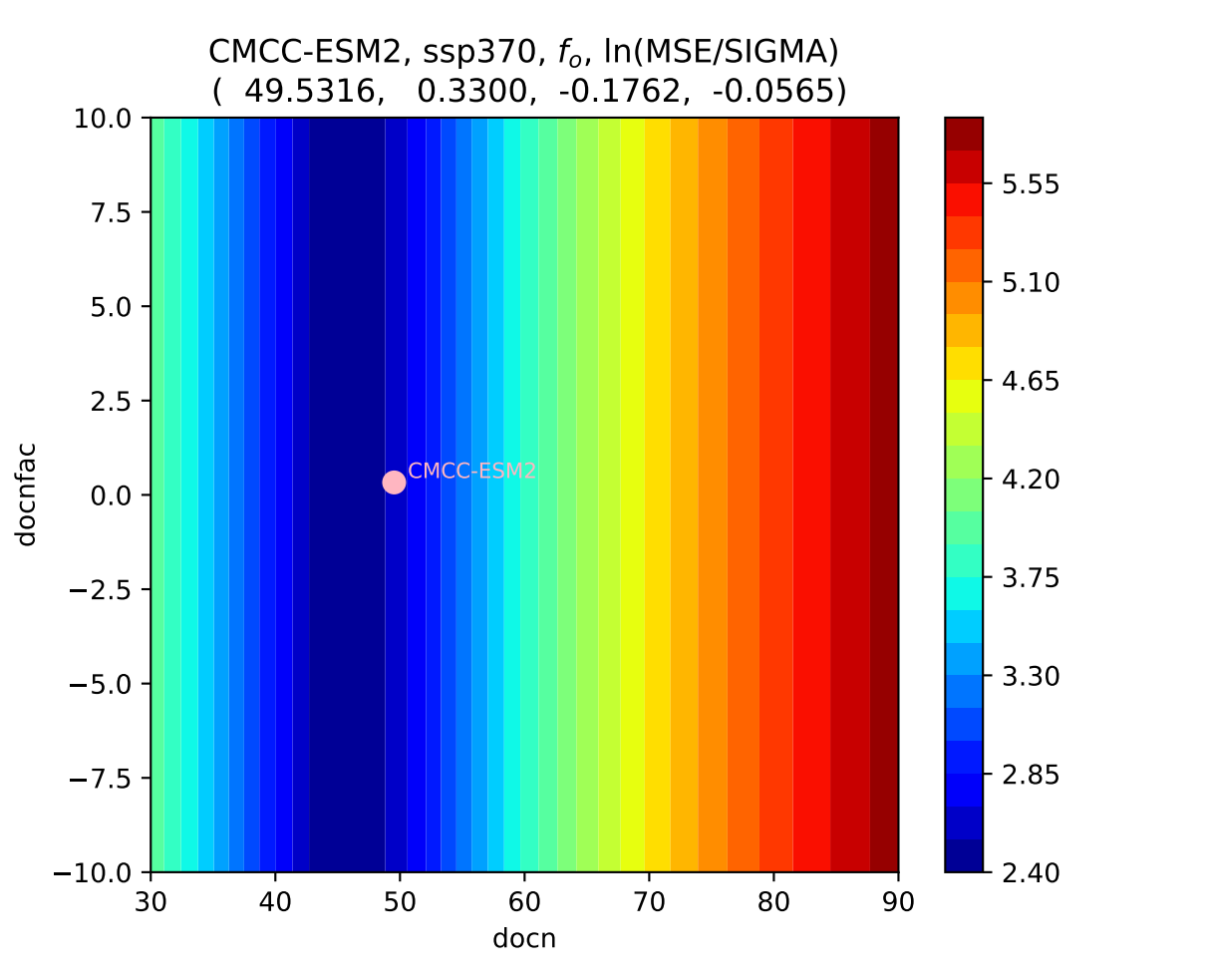

CMCC-ESM2, ssp370, f_o
ESM-Fit
f_o, ESM - FIT
Year

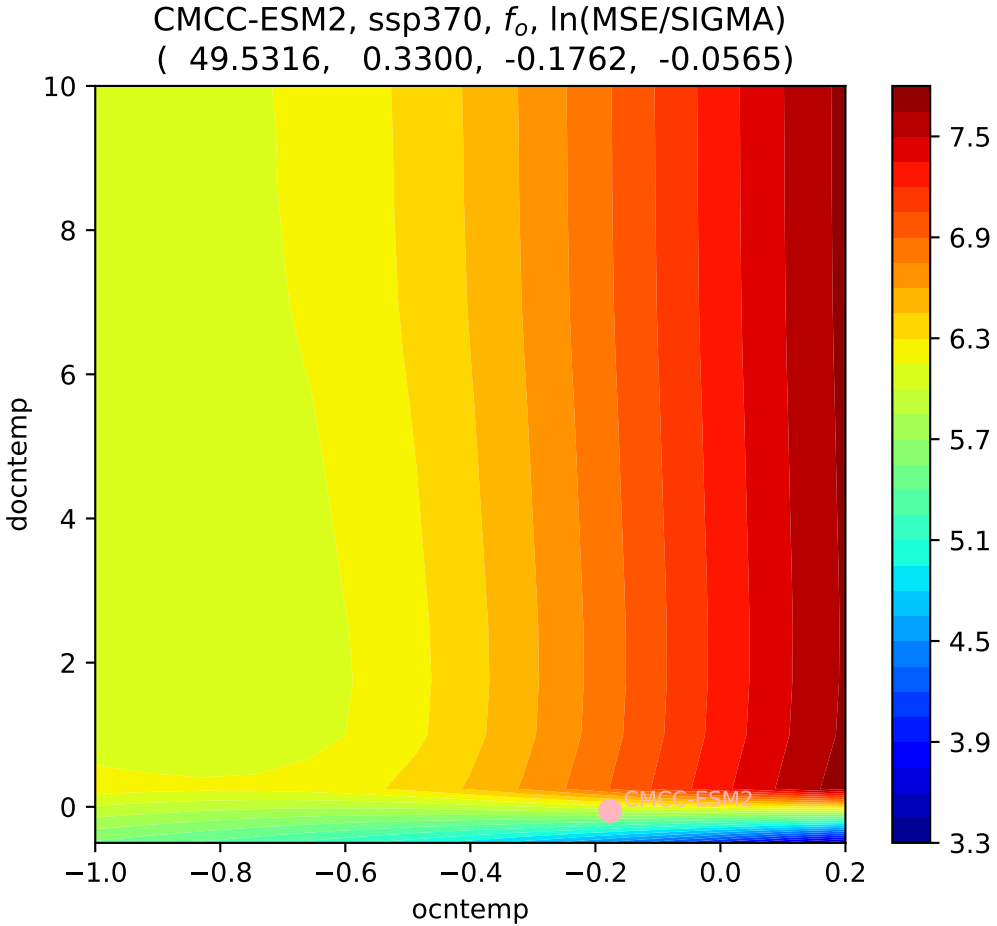

CMCC-ESM2, ssp370, f_o
ESM
Fit
f_o
ΔT


CMCC-ESM2, ssp370, f_o
ESM-Fit
f_o, ESM - FIT
ΔT


CMCC-ESM2, ssp370, f_o
ESM
Fit
f_o
c_atm


CMCC-ESM2, ssp370, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


CMCC-ESM2, ssp370, f_o, ln(MSE/SIGMA)
(49.5316, 0.3300, -0.1762, -0.0565)
CMCC-ESM2
docnfac
docn
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
30
40
50
60
70
80
90
5.55
5.10
4.65
4.20
3.75
3.30
2.85
2.40


CMCC-ESM2, ssp370, f_o, ln(MSE/SIGMA)
(49.5316, 0.3300, -0.1762, -0.0565)
10
8
6
4
2
0
docntemp
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
ocntemp
CMCC-ESM2
7.5
6.9
6.3
5.7
5.1
4.5
3.9
3.3