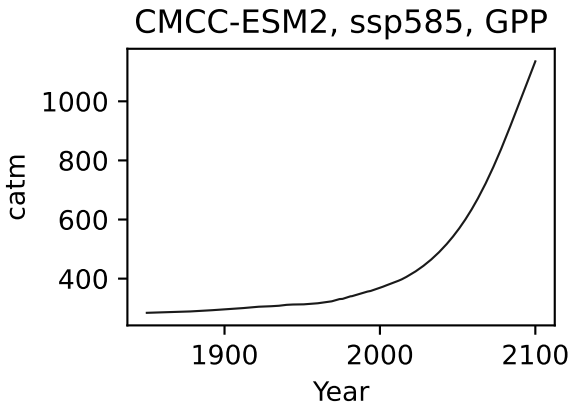
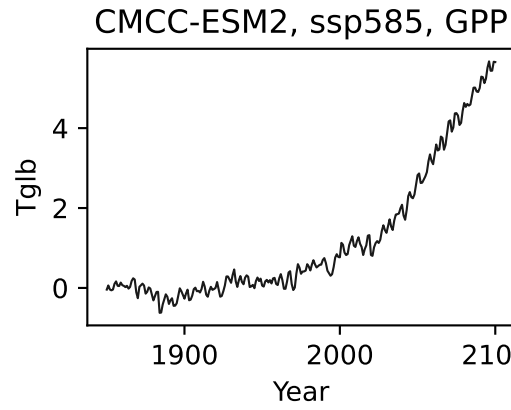
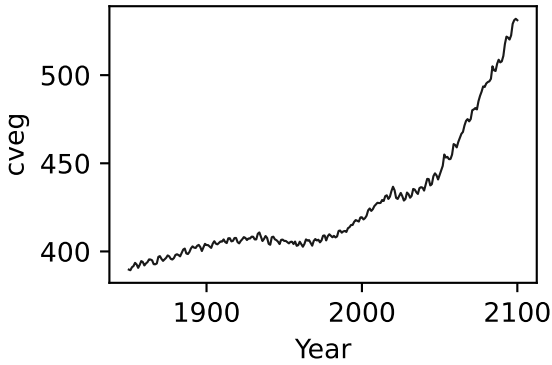
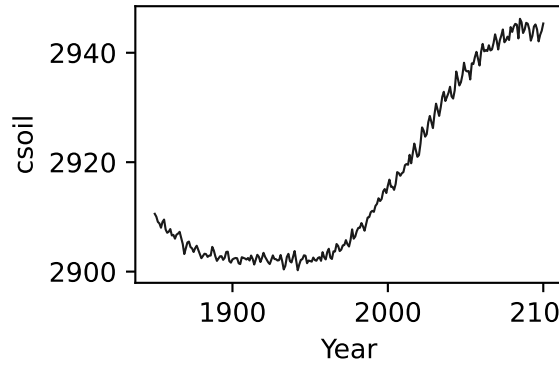
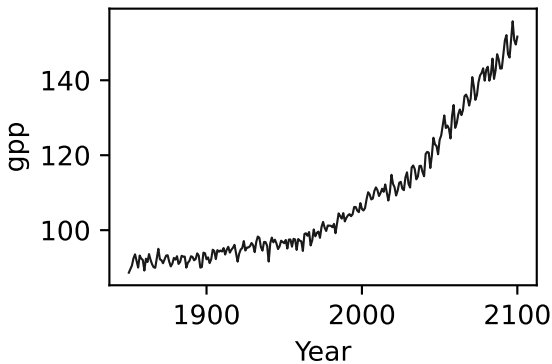
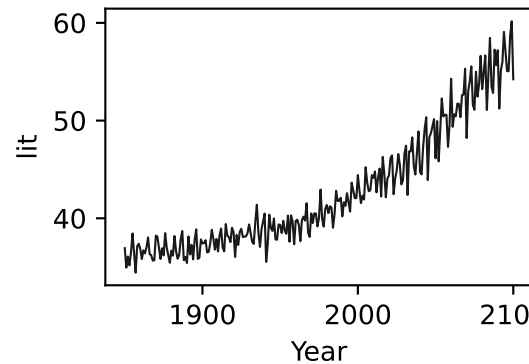

CMCC-ESM2, ssp585, GPP
catm
1000
800
600
400
1900
2000
2100
Year

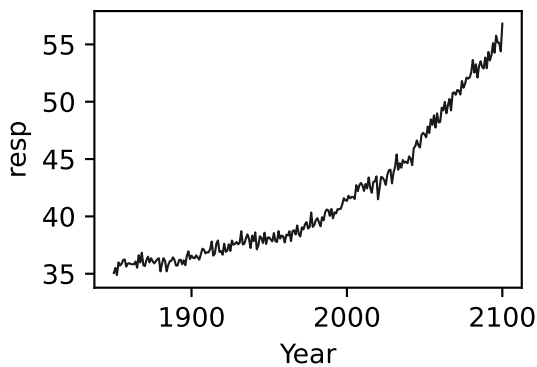

CMCC-ESM2, ssp585, GPP
Tglb
4
2
0
1900
2000
2100
Year

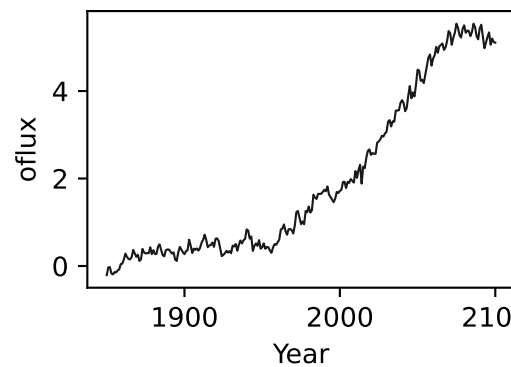

cveg
500
450
400
1900
2000
2100
Year

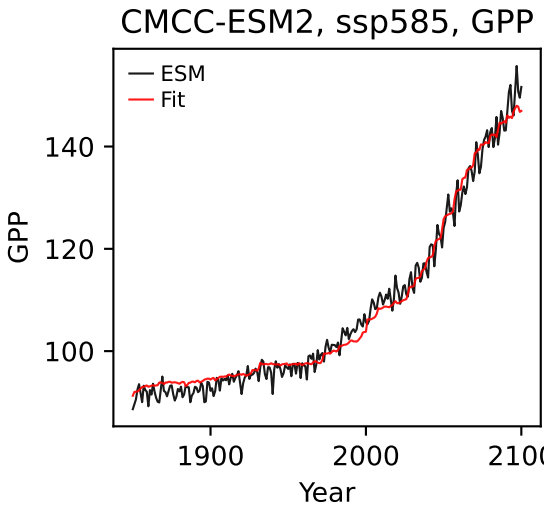

csoil
2940
2920
2900
1900
2000
2100
Year

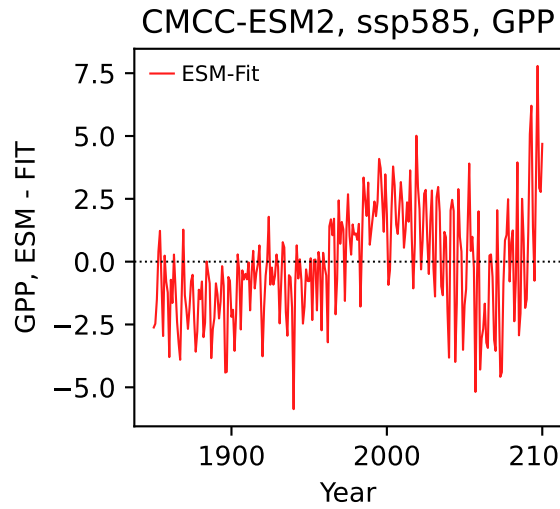

gpp
140
120
100
1900
2000
2100
Year

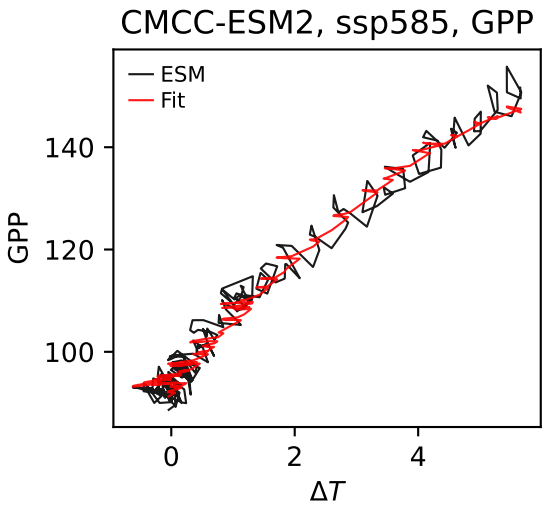

lit
60
50
40
1900
2000
2100
Year

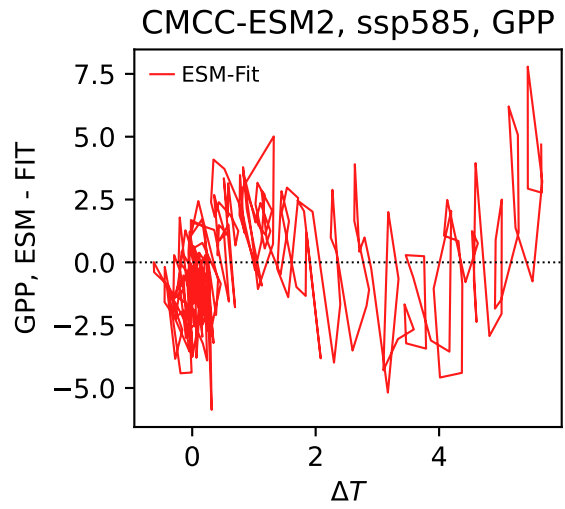

resp
55
50
45
40
35
1900
2000
2100
Year

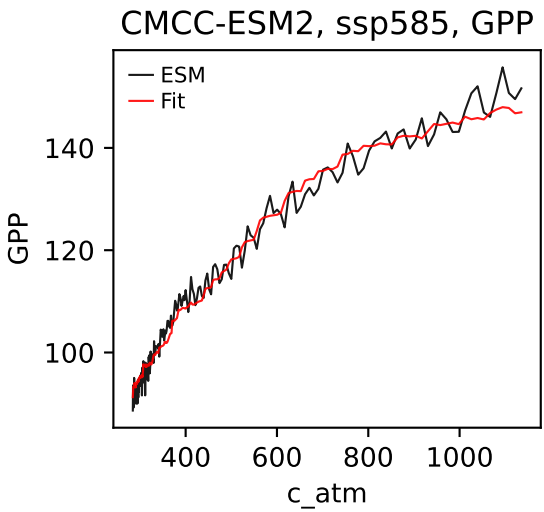

oflux
4
2
0
1900
2000
2100
Year

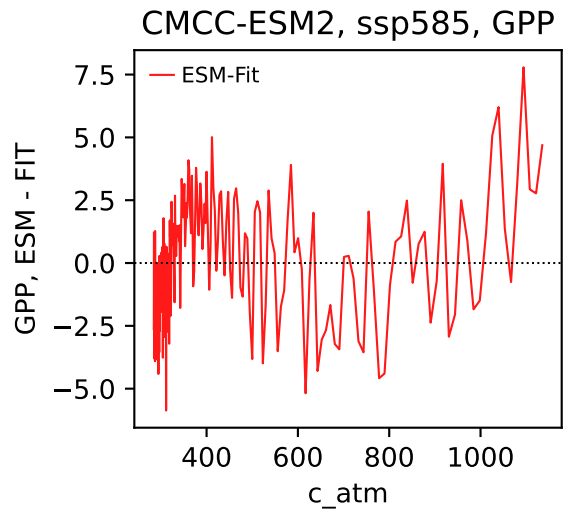

CMCC-ESM2, ssp585, GPP
ESM
Fit
GPP
140
120
100
1900
2000
2100
Year

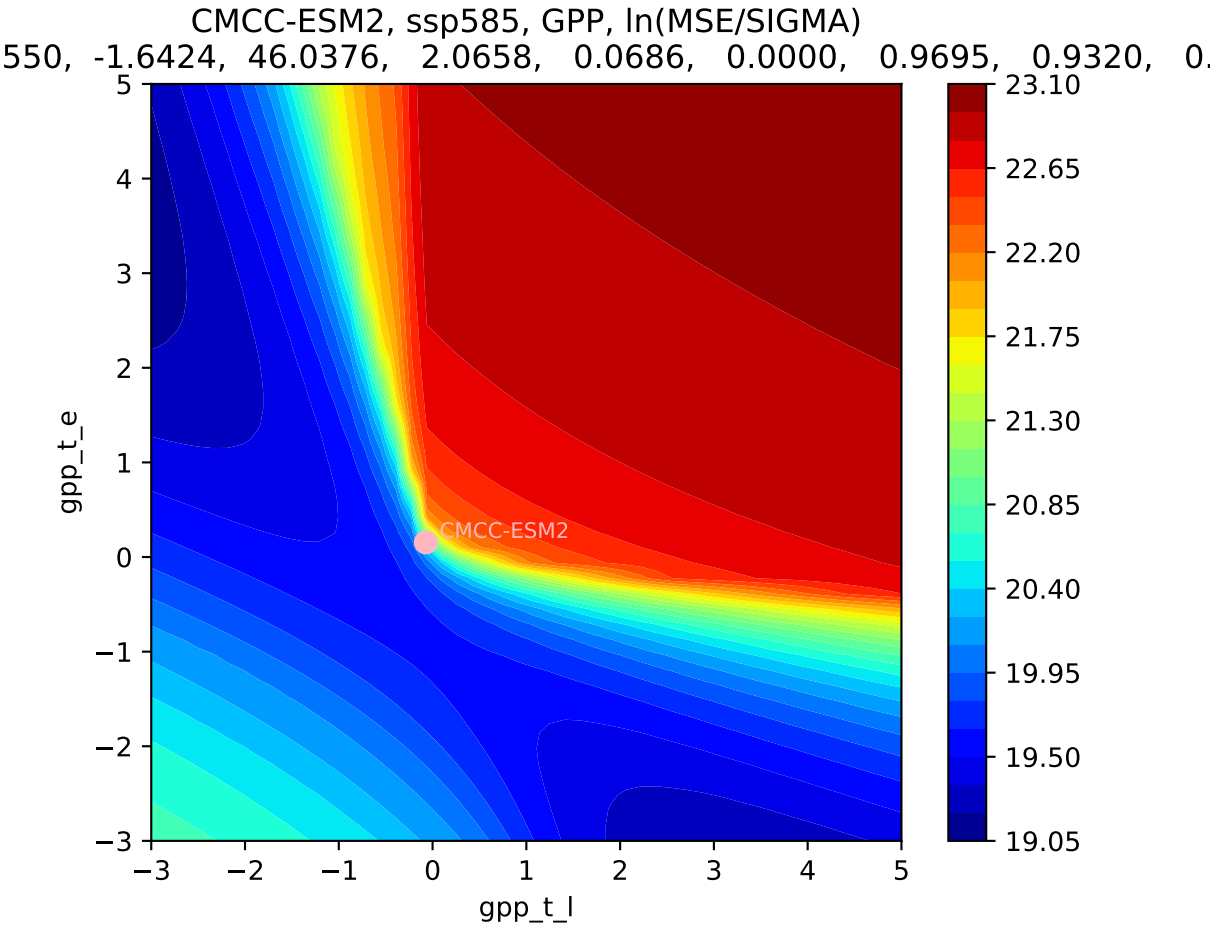

CMCC-ESM2, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
7.5
5.0
2.5
0.0
−2.5
−5.0
1900
2000
2100
Year

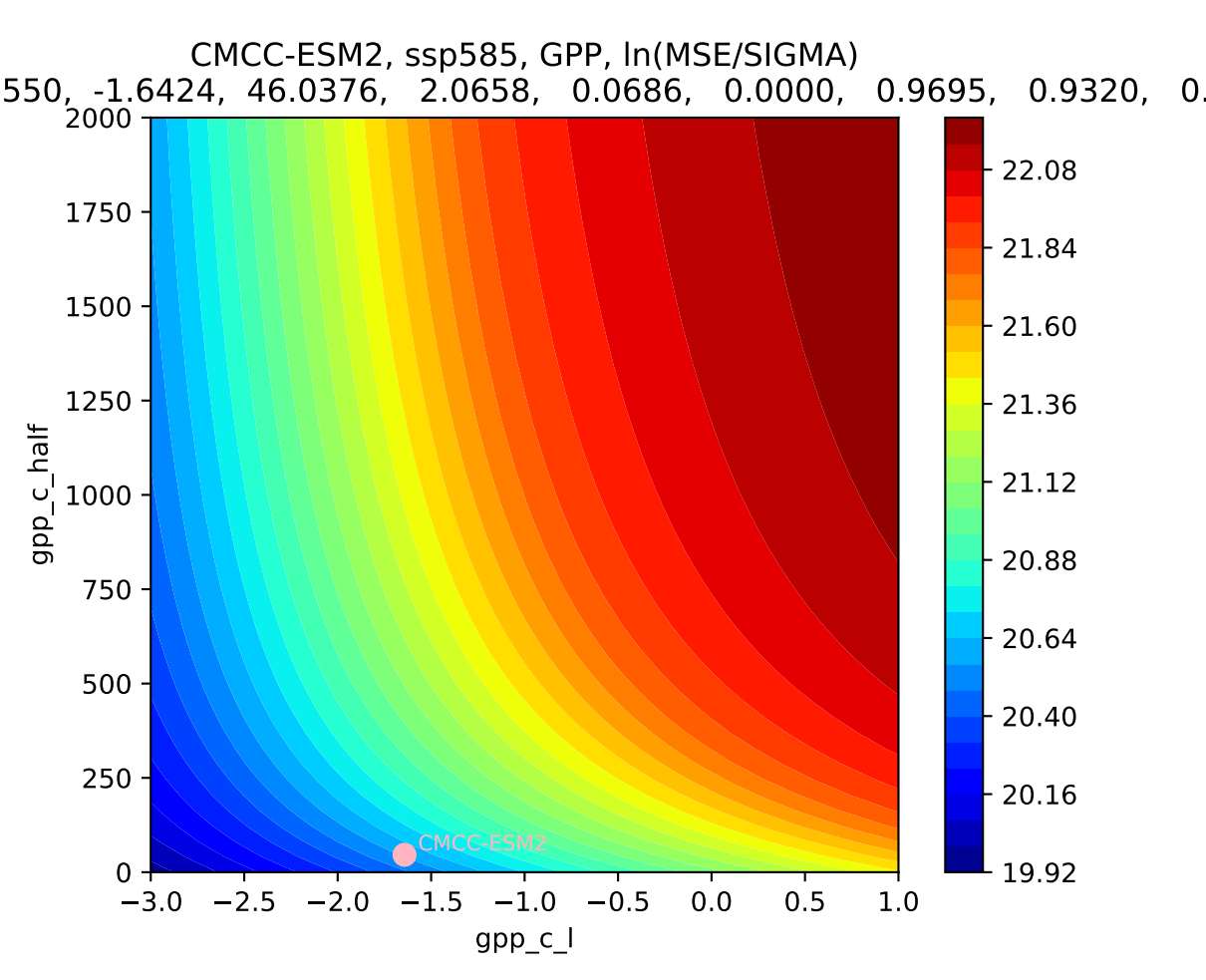

CMCC-ESM2, ssp585, GPP
ESM
Fit
GPP
140
120
100
0
2
4
ΔT

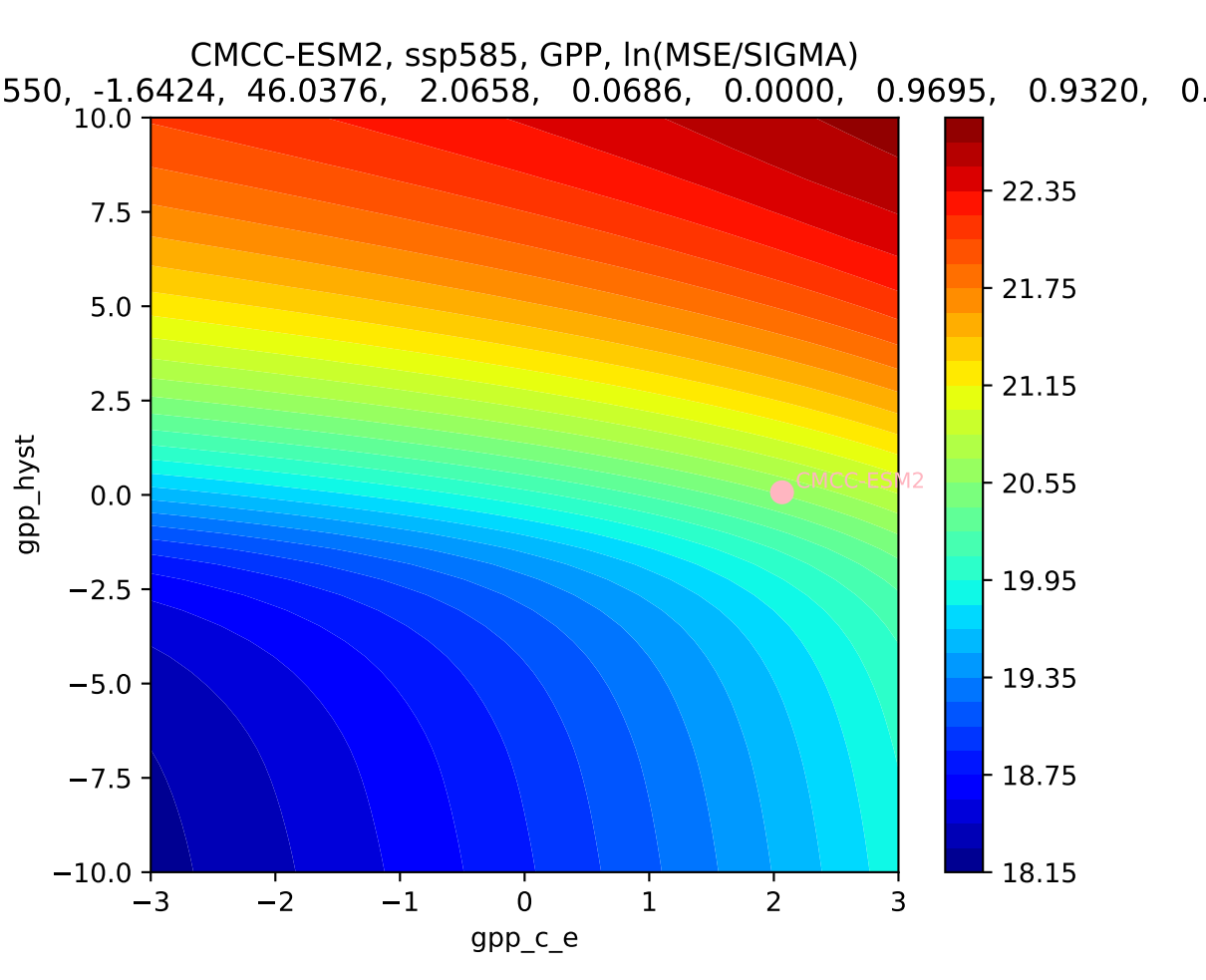

CMCC-ESM2, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
7.5
5.0
2.5
0.0
−2.5
−5.0
0
2
4
ΔT

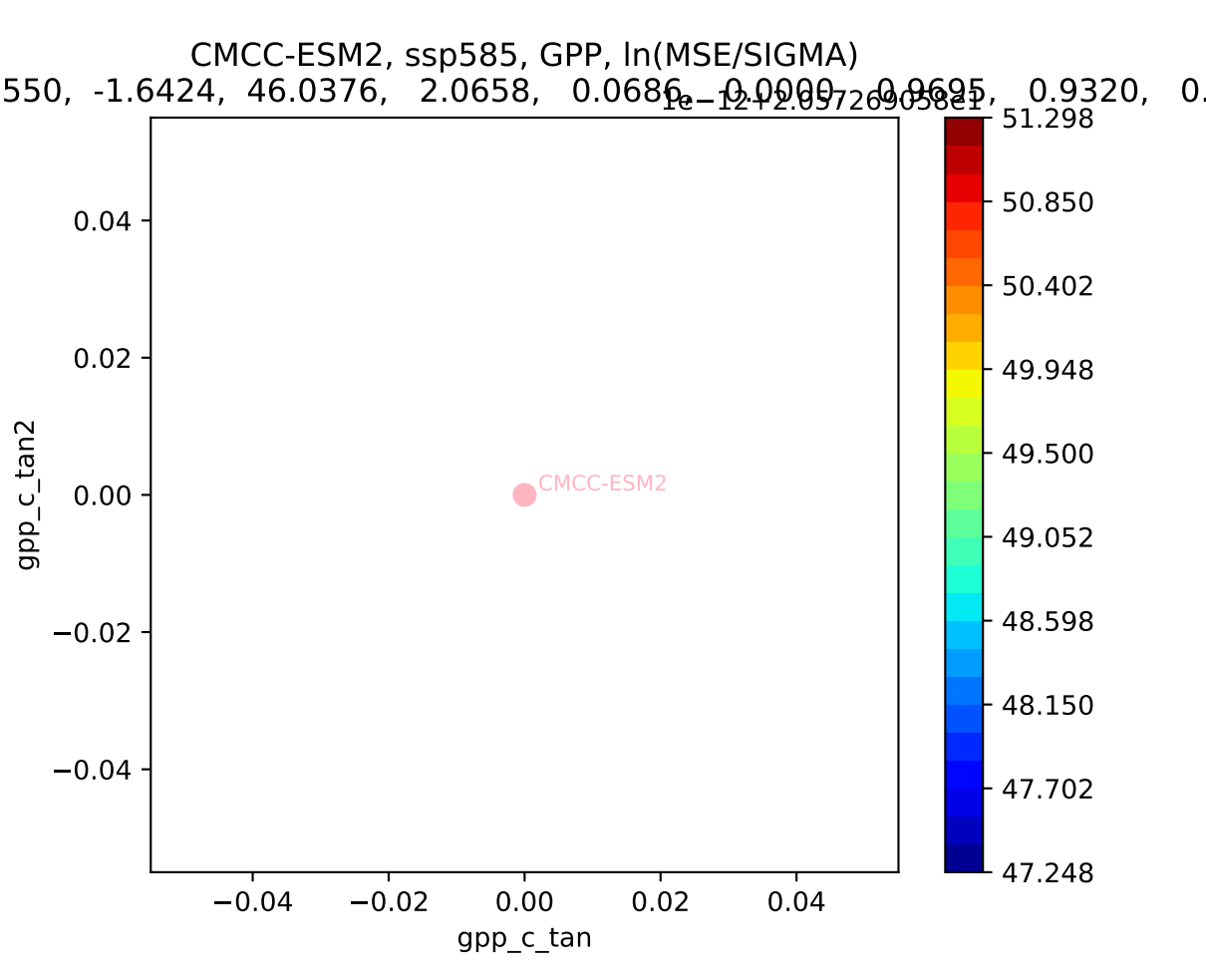

CMCC-ESM2, ssp585, GPP
ESM
Fit
GPP
140
120
100
400
600
800
1000
c_atm

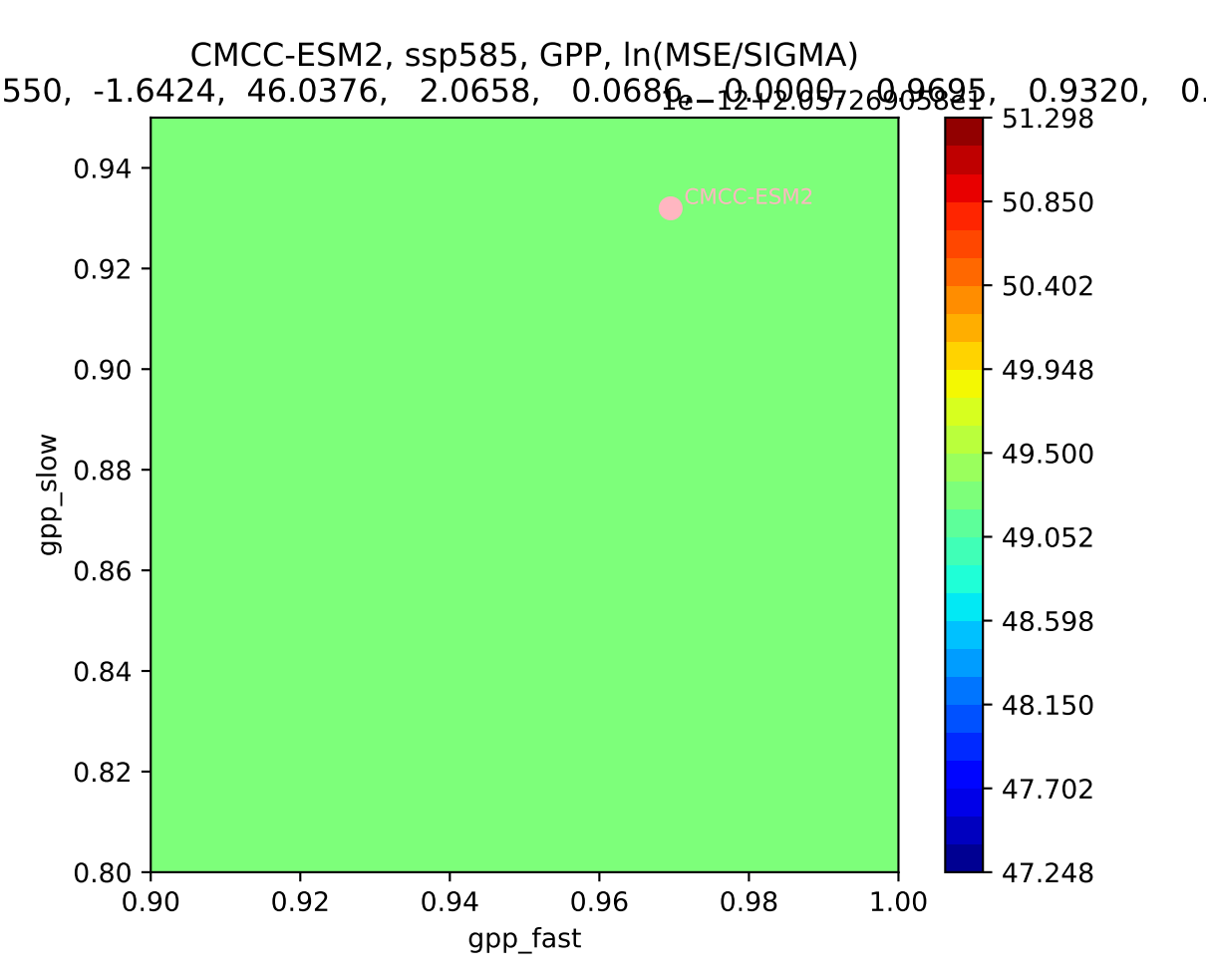

CMCC-ESM2, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
7.5
5.0
2.5
0.0
−2.5
−5.0
400
600
800
1000
c_atm

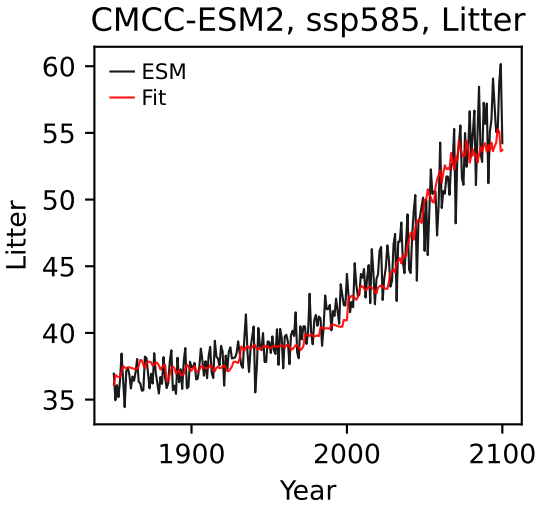

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
550, -1.6424, 46.0376, 2.0658, 0.0686, 0.0000, 0.9695, 0.9320, 0.
gpp_t_e
gpp_t_l
CMCC-ESM2
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
23.10
22.65
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05

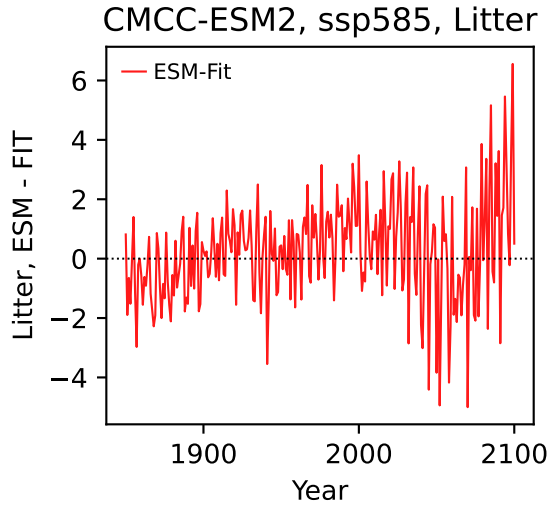

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
550, -1.6424, 46.0376, 2.0658, 0.0686, 0.0000, 0.9695, 0.9320, 0.
gpp_c_half
gpp_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.08
21.84
21.60
21.36
21.12
20.88
20.64
20.40
20.16
19.92

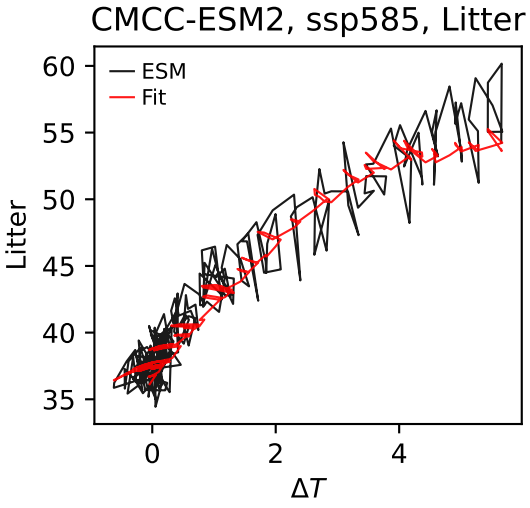

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
550, -1.6424, 46.0376, 2.0658, 0.0686, 0.0000, 0.9695, 0.9320, 0.
gpp_hyst
gpp_c_e
CMCC-ESM2
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.35
21.75
21.15
20.55
19.95
19.35
18.75
18.15

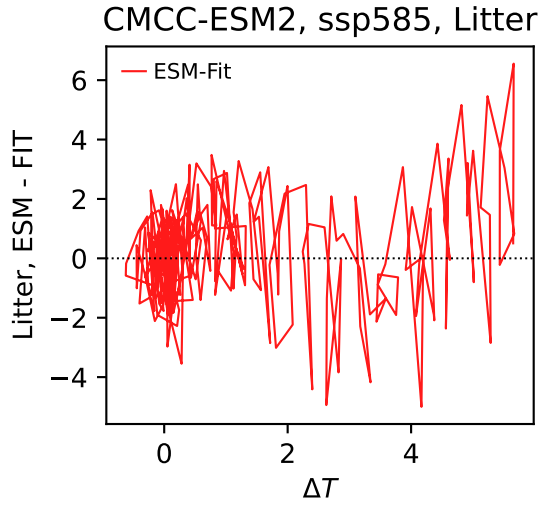

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
550, -1.6424, 46.0376, 2.0658, 0.0686, 0.0000, 0.9695, 0.9320, 0.
1e−12+2.0572690581e1
51.298
50.850
50.402
49.948
49.500
49.052
48.598
48.150
47.702
47.248
0.04
0.02
0.00
−0.02
−0.04
gpp_c_tan2
CMCC-ESM2
−0.04
−0.02
0.00
0.02
0.04
gpp_c_tan

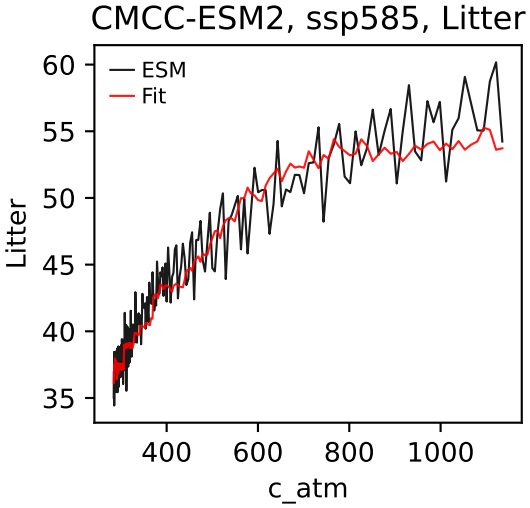

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
550, -1.6424, 46.0376, 2.0658, 0.0686, 0.0000, 0.9695, 0.9320, 0.
1e−12+2.057269058e1
CMCC-ESM2
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
gpp_slow
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast
51.298
50.850
50.402
49.948
49.500
49.052
48.598
48.150
47.702
47.248

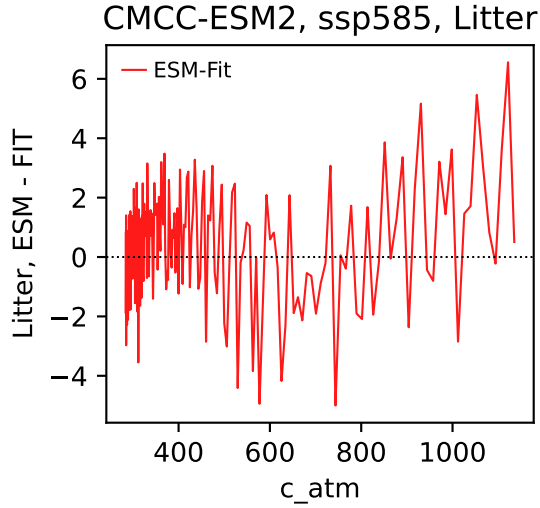

CMCC-ESM2, ssp585, Litter
ESM
Fit
Litter
Year

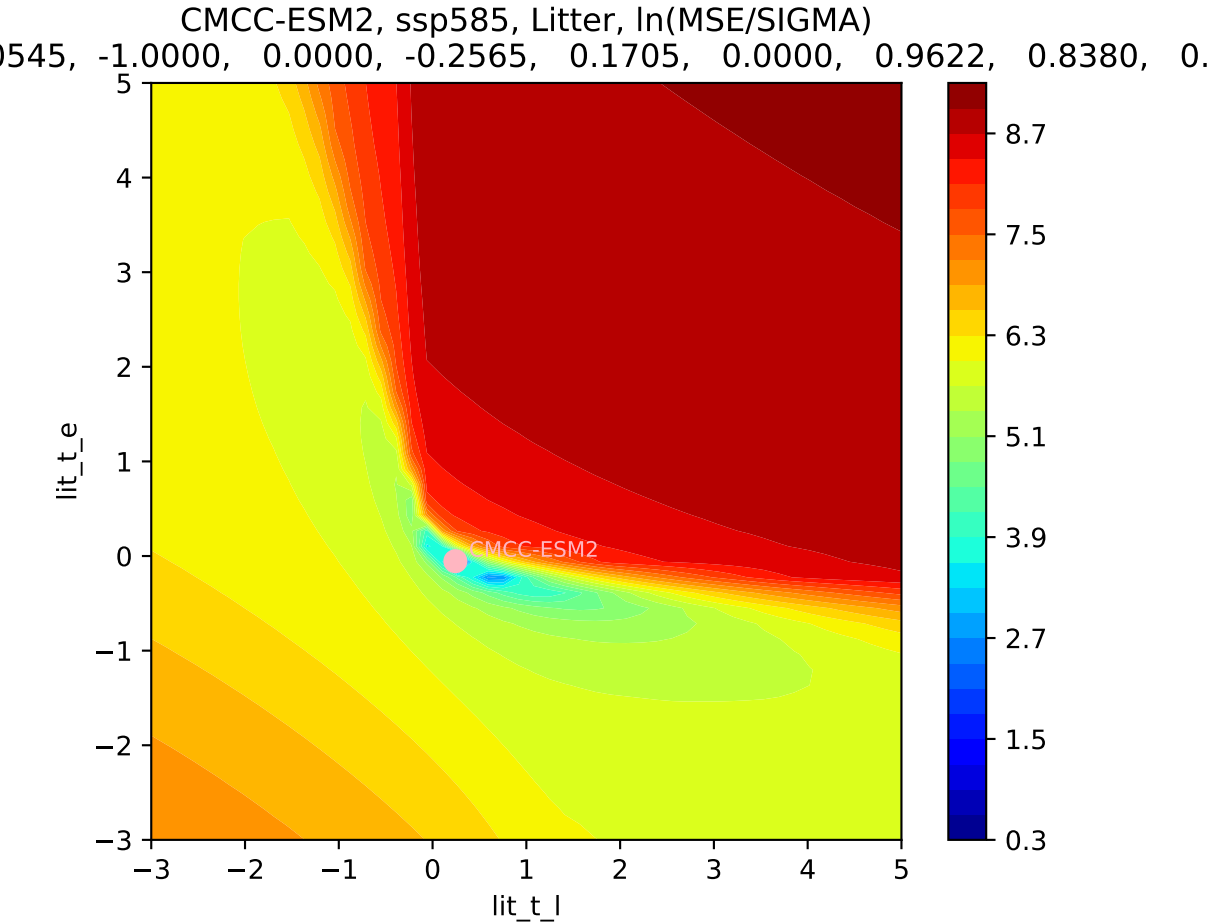

CMCC-ESM2, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
Year

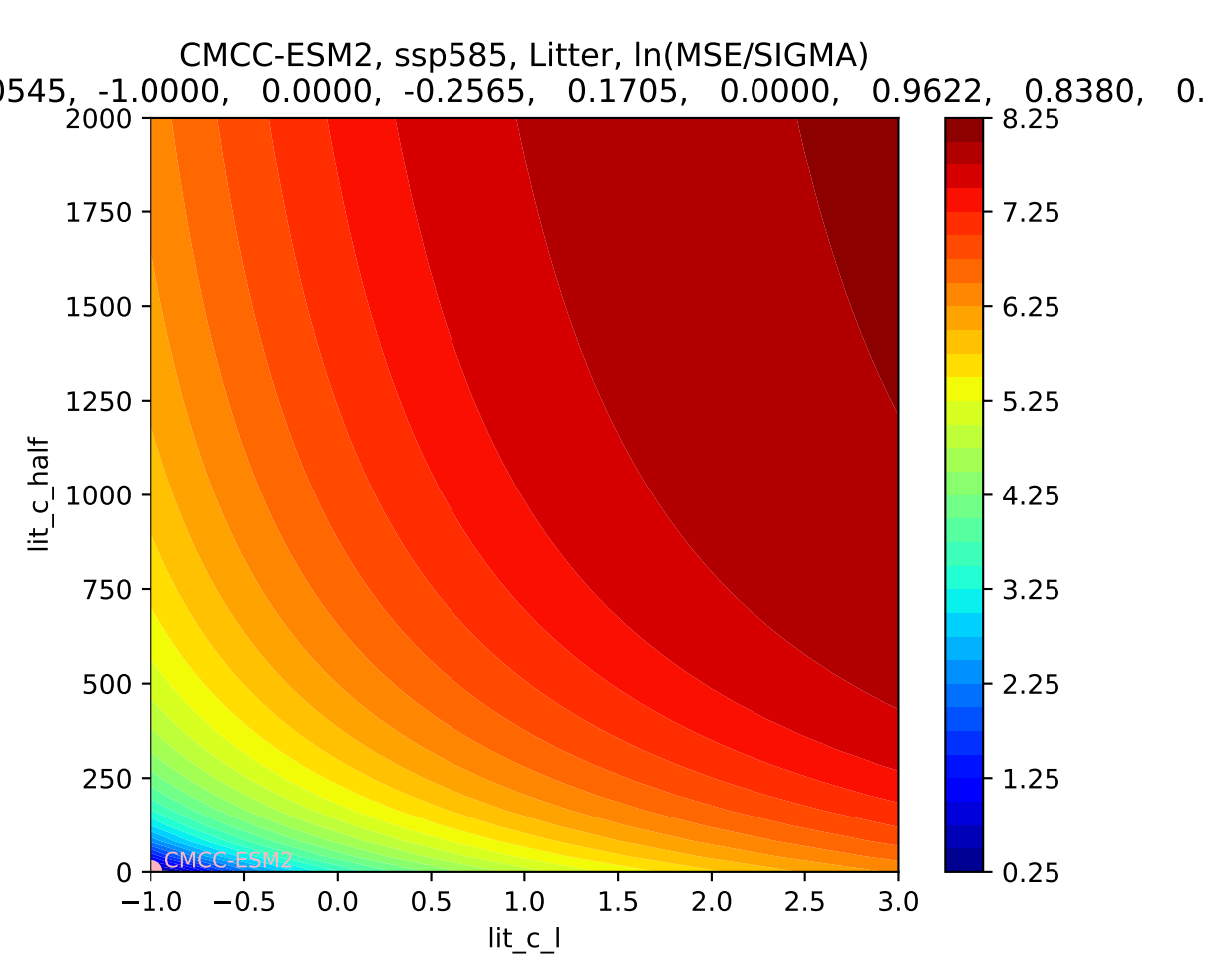

CMCC-ESM2, ssp585, Litter
ESM
Fit
Litter
ΔT

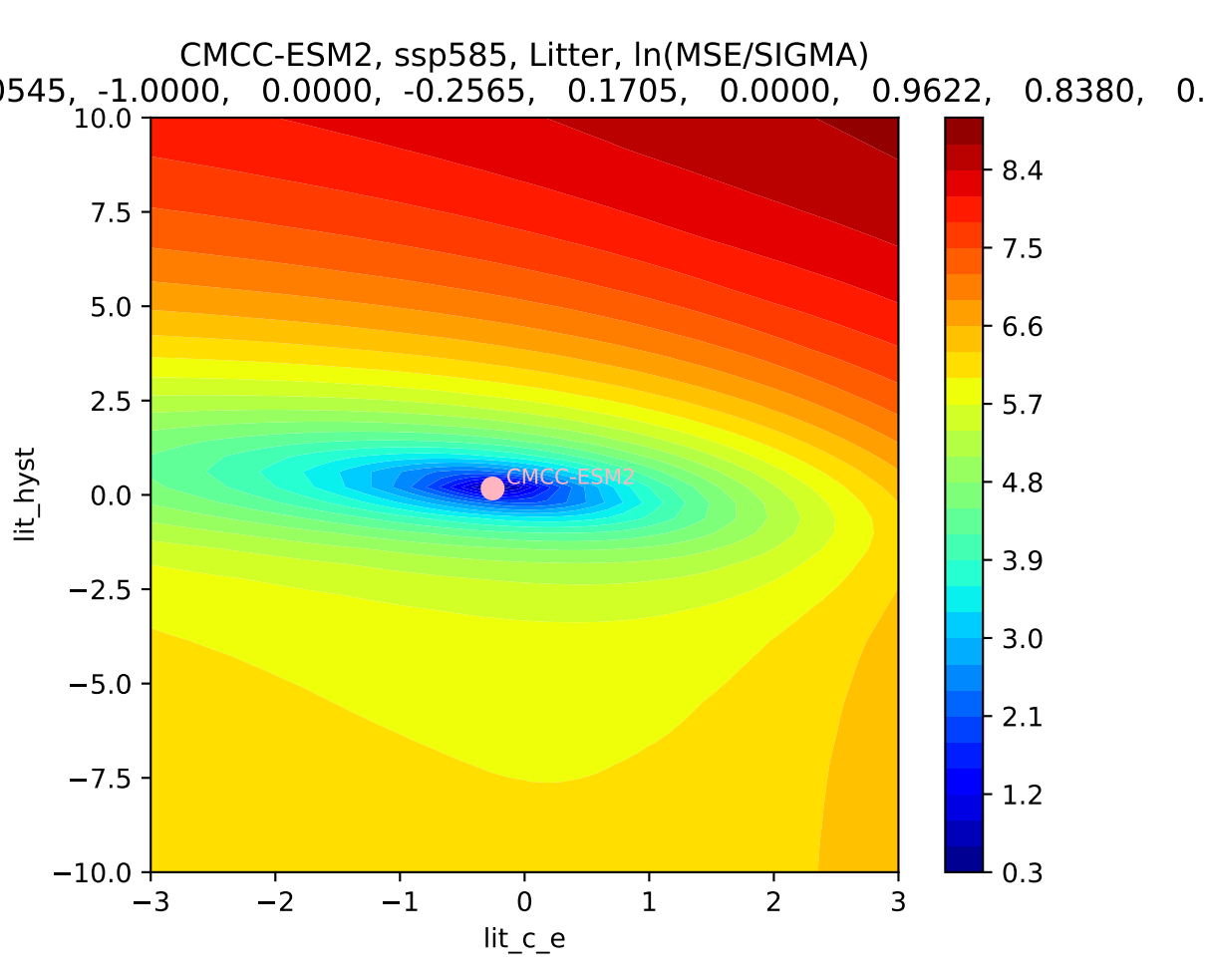

CMCC-ESM2, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

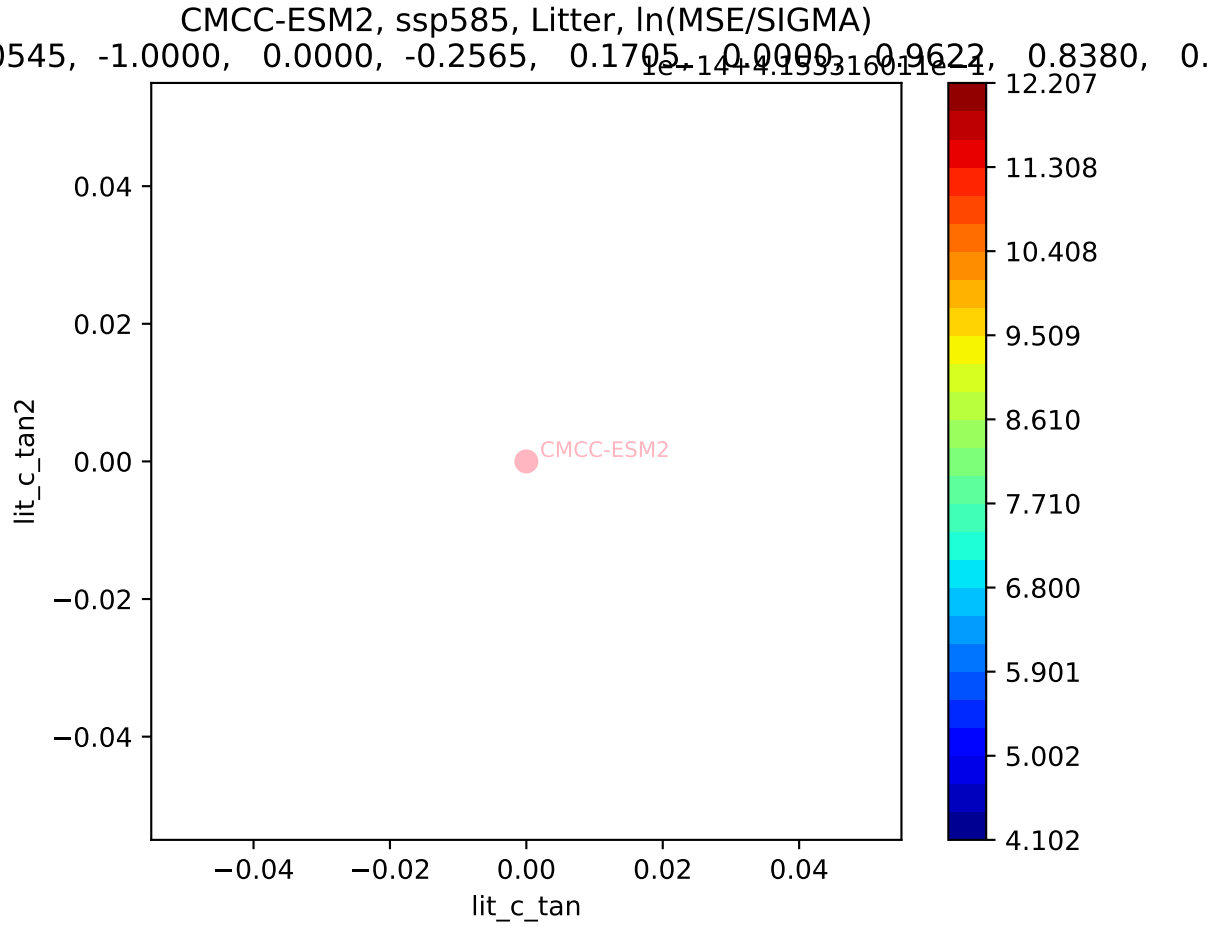

CMCC-ESM2, ssp585, Litter
ESM
Fit
Litter
c_atm

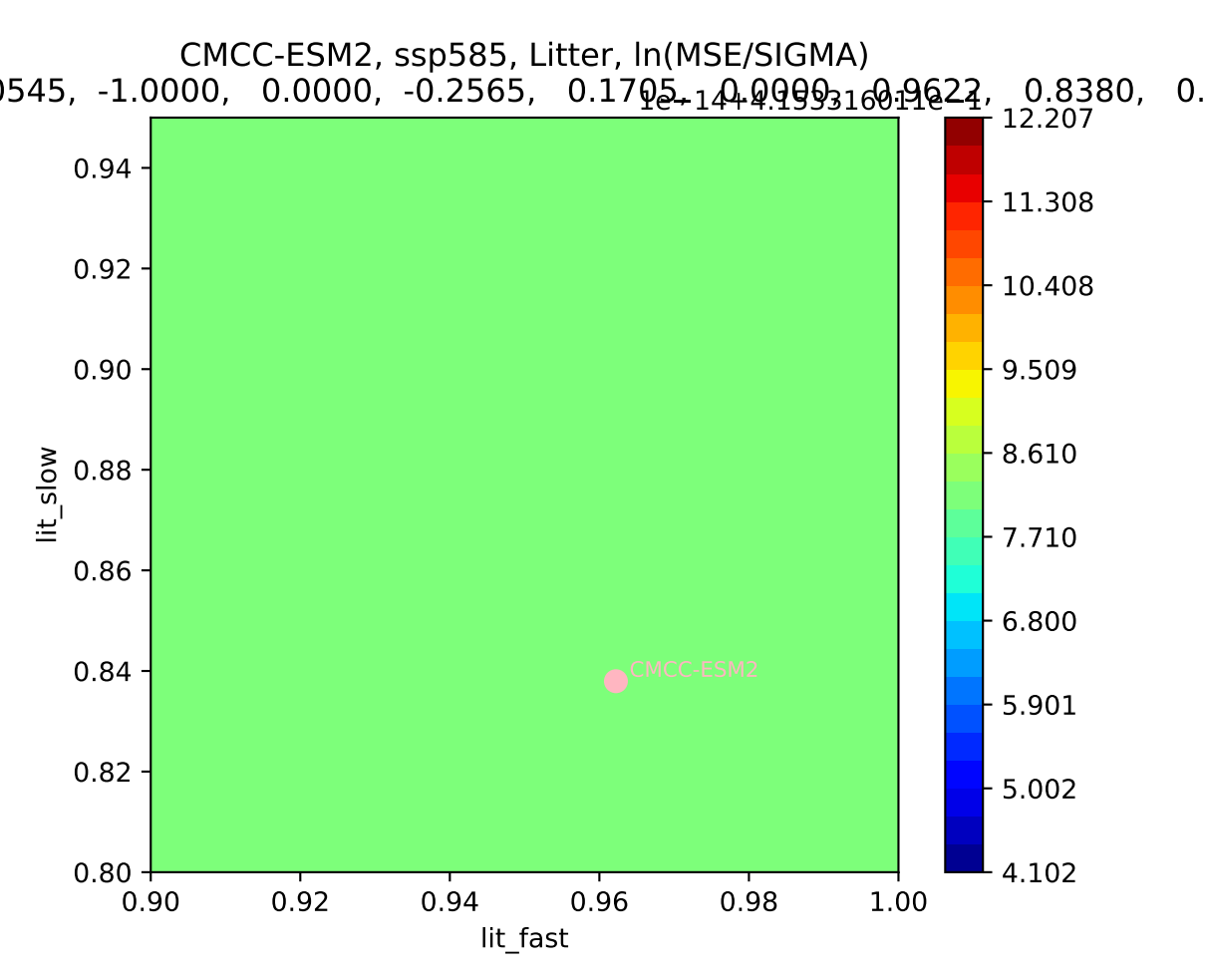

CMCC-ESM2, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

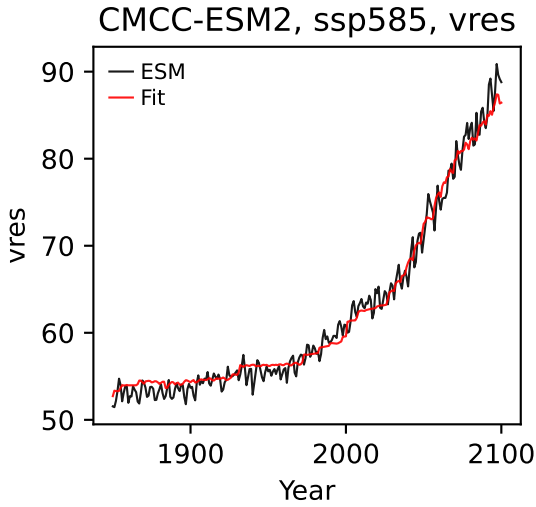

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0545, -1.0000, 0.0000, -0.2565, 0.1705, 0.0000, 0.9622, 0.8380, 0.
CMCC-ESM2
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

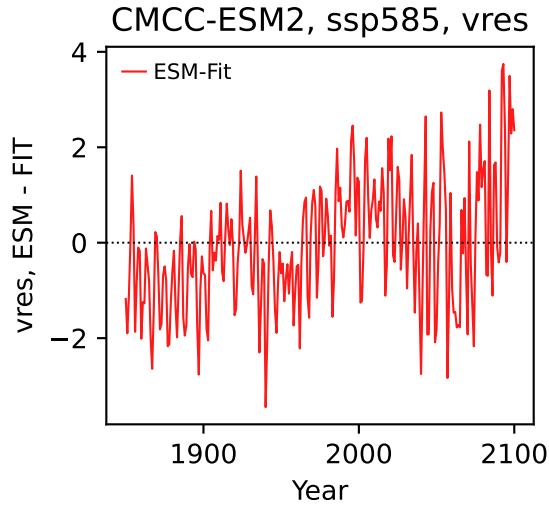

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0545, -1.0000, 0.0000, -0.2565, 0.1705, 0.0000, 0.9622, 0.8380, 0.
lit_c_half
lit_c_l
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.25
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25
CMCC-ESM2

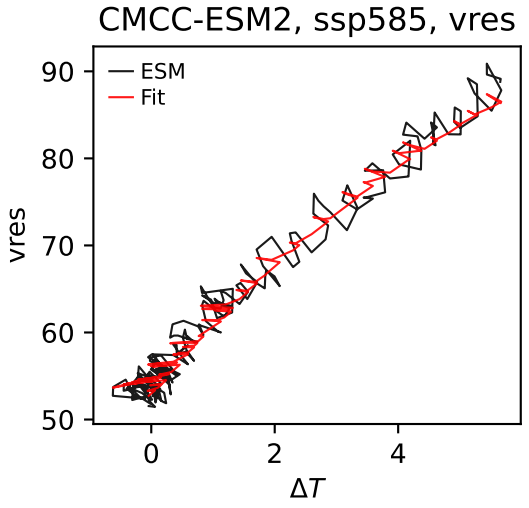

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0545, -1.0000, 0.0000, -0.2565, 0.1705, 0.0000, 0.9622, 0.8380, 0.
CMCC-ESM2
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2
0.3

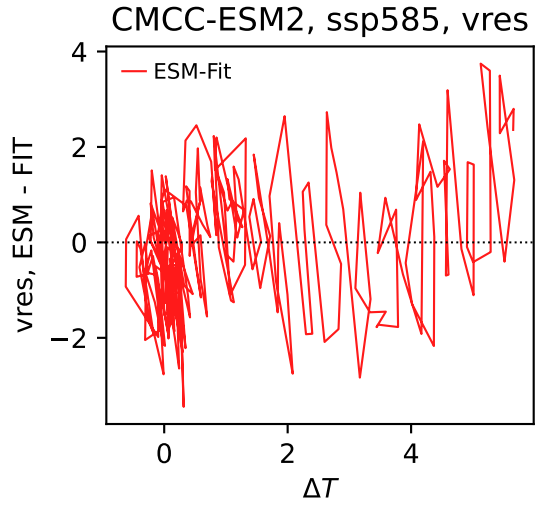

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0545, -1.0000, 0.0000, -0.2565, 0.1705, 0.0000, 0.9622, 0.8380, 0.
1e-14 4.153316011e-4
12.207
11.308
10.408
9.509
8.610
7.710
6.800
5.901
5.002
4.102
CMCC-ESM2
0.04
0.02
0.00
−0.02
−0.04
lit_c_tan2
−0.04
−0.02
0.00
0.02
0.04
lit_c_tan

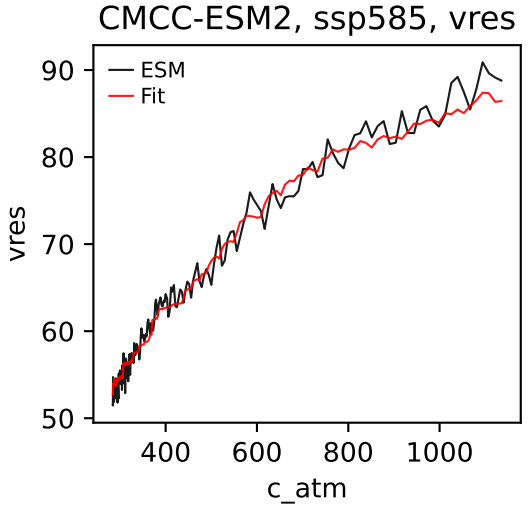

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0545, -1.0000, 0.0000, -0.2565, 0.1705, 0.0000, 0.9622, 0.8380, 0.
1e-14 4.153316011e-4
12.207
11.308
10.408
9.509
8.610
7.710
6.800
5.901
5.002
4.102
CMCC-ESM2
lit_slow
lit_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00

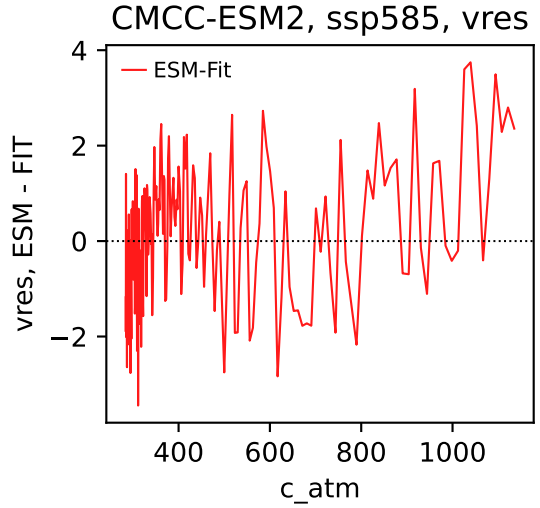

CMCC-ESM2, ssp585, vres
ESM
Fit
vres
Year

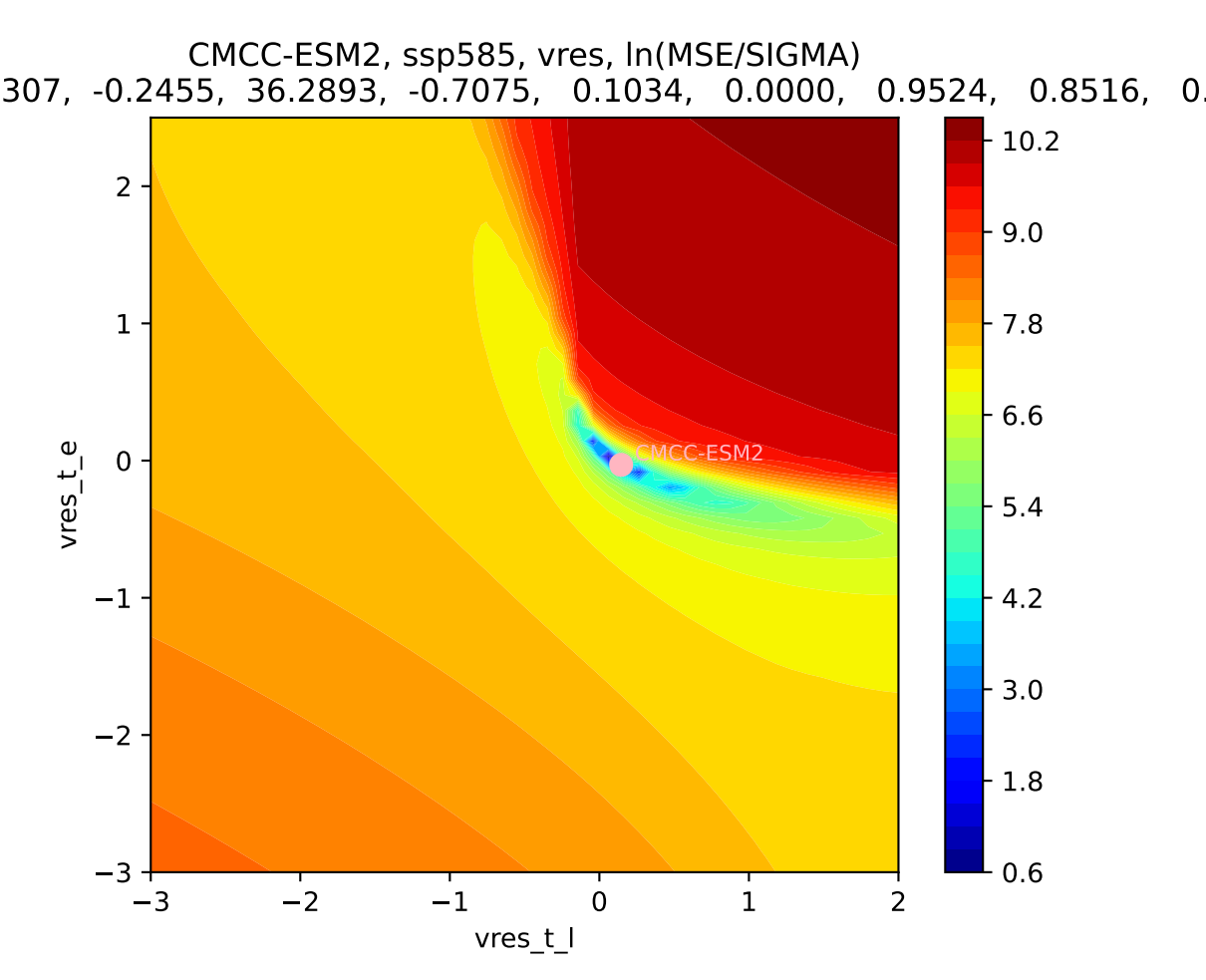

CMCC-ESM2, ssp585, vres
ESM-Fit
vres, ESM - FIT
Year

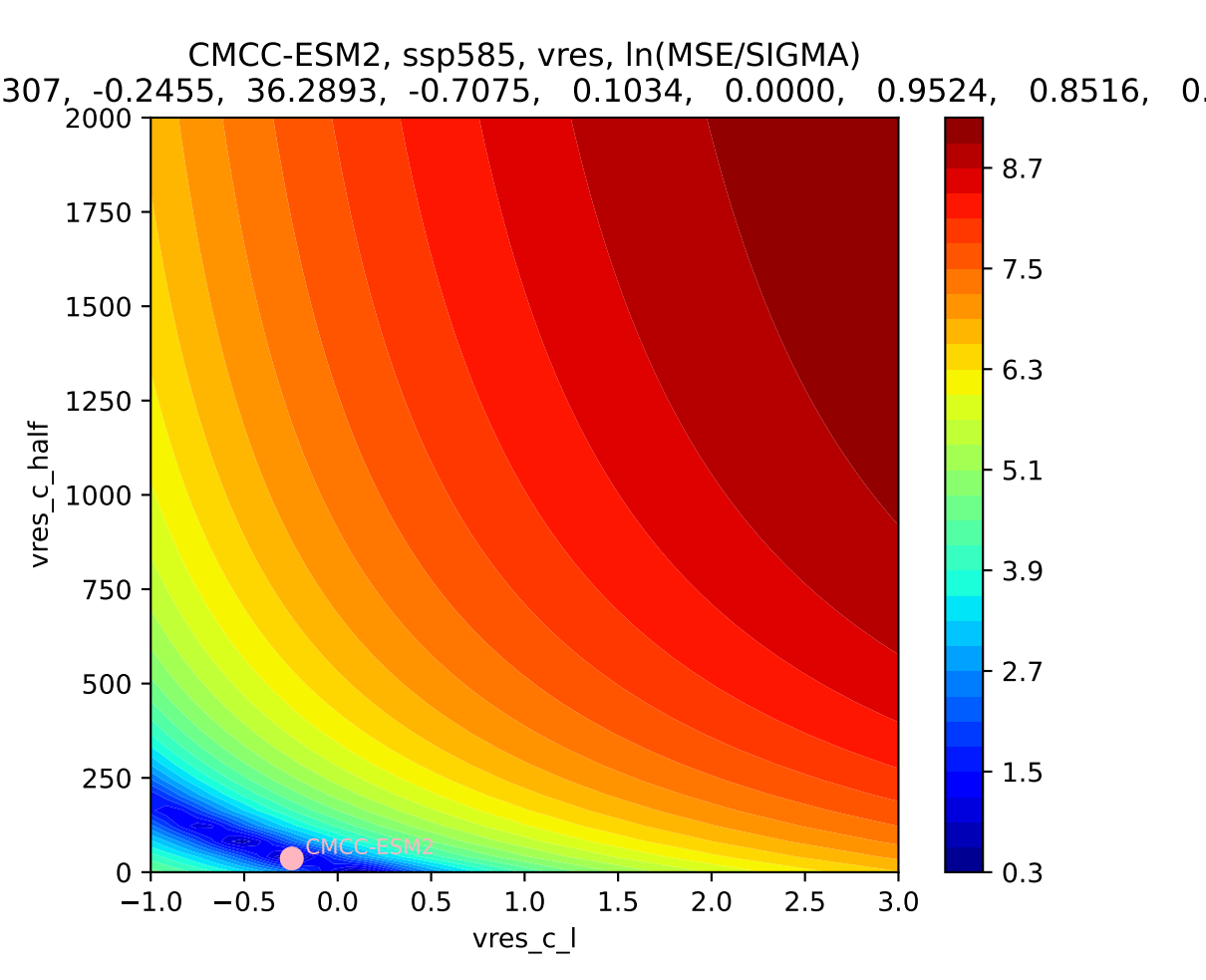

CMCC-ESM2, ssp585, vres
ESM
Fit
vres
ΔT

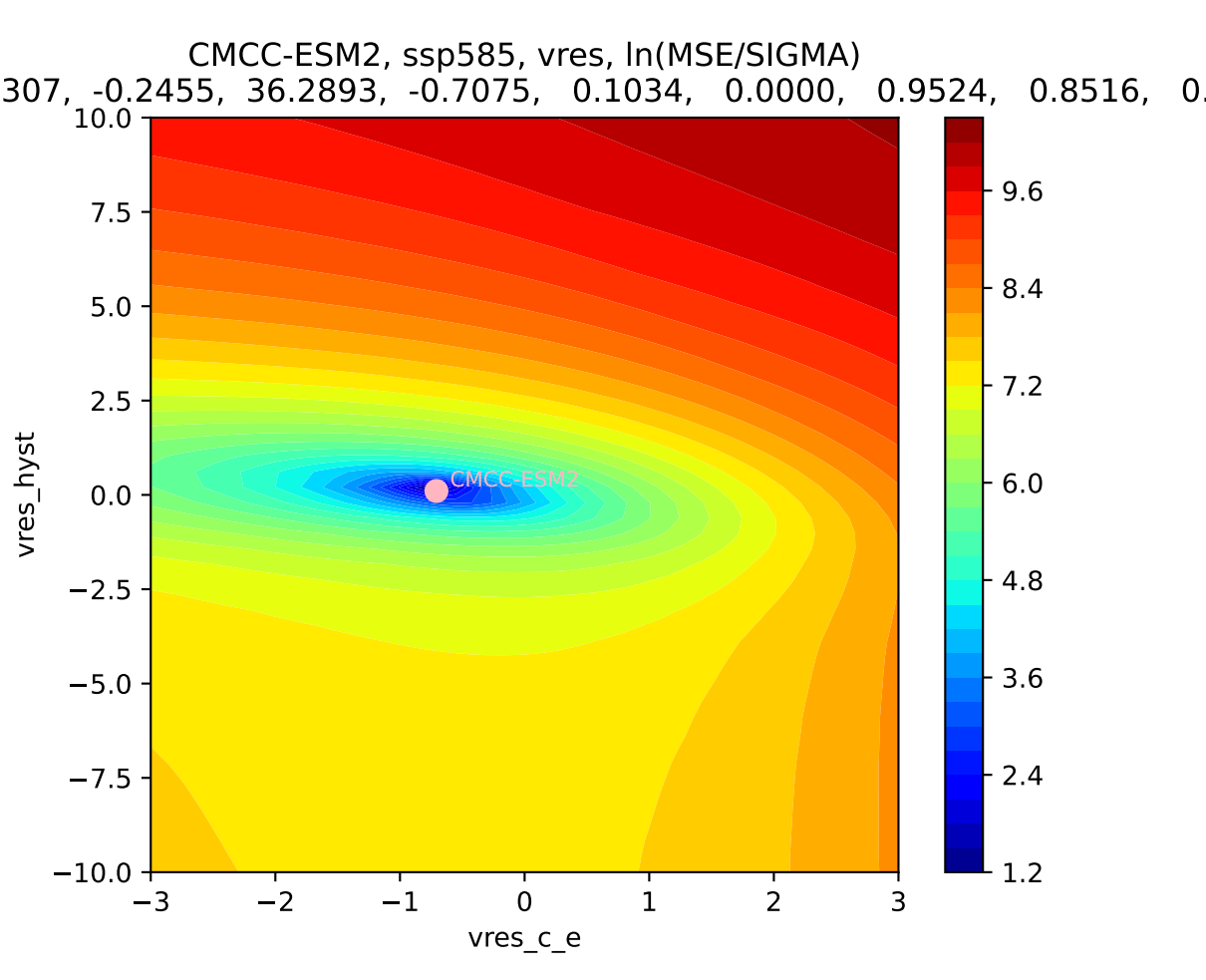

CMCC-ESM2, ssp585, vres
ESM-Fit
vres, ESM - FIT
ΔT

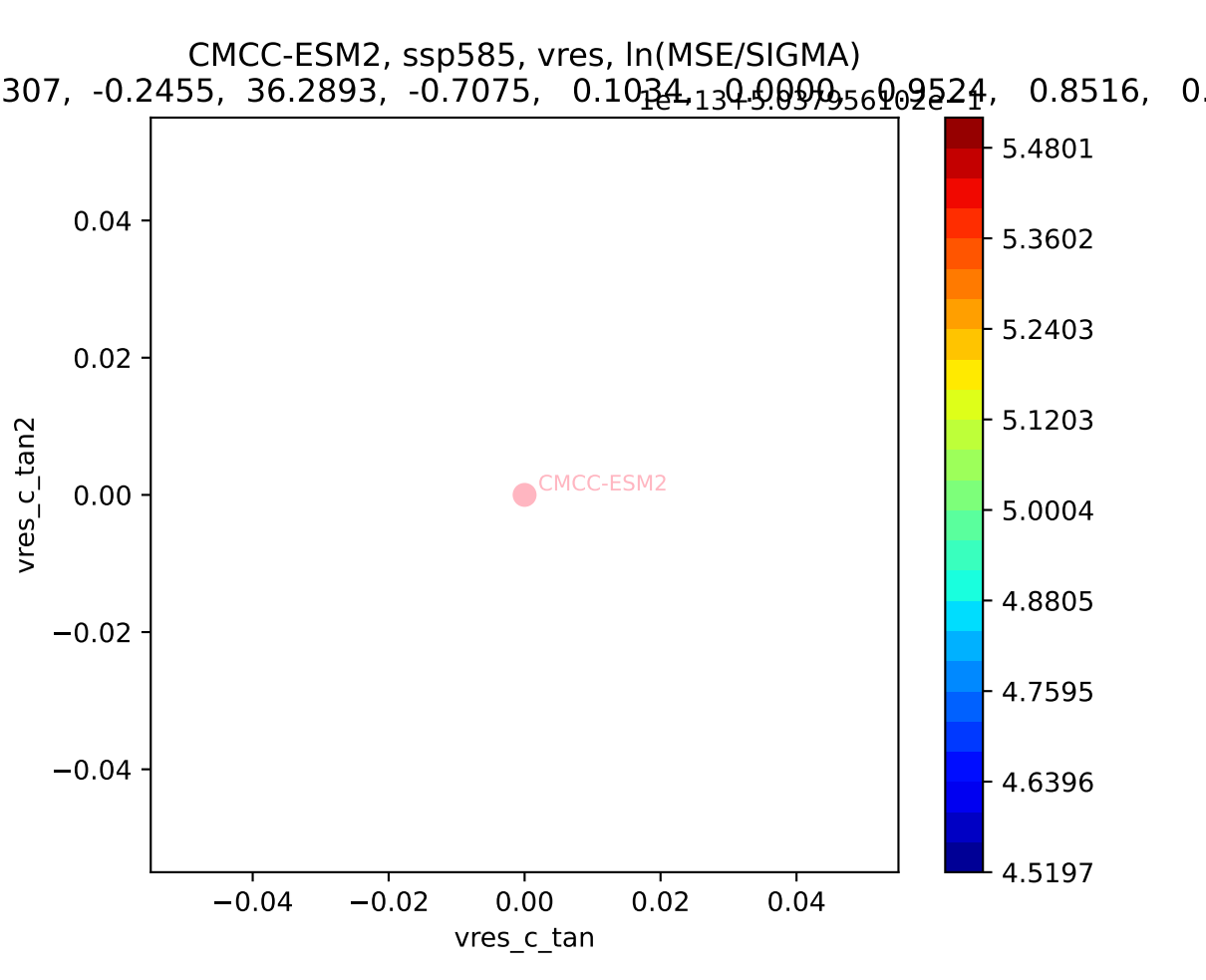

CMCC-ESM2, ssp585, vres
ESM
Fit
vres
c_atm

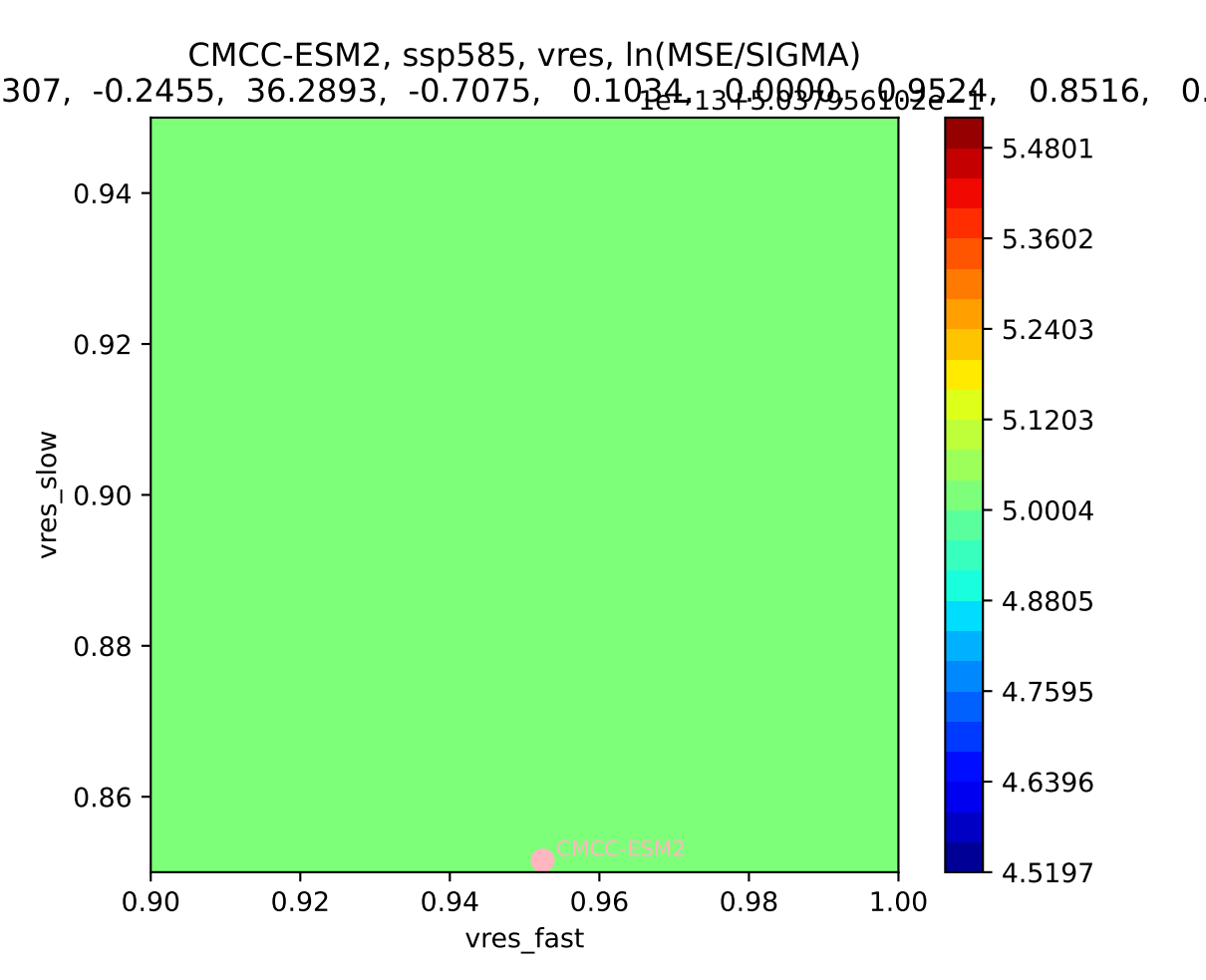

CMCC-ESM2, ssp585, vres
ESM-Fit
vres, ESM - FIT
c_atm

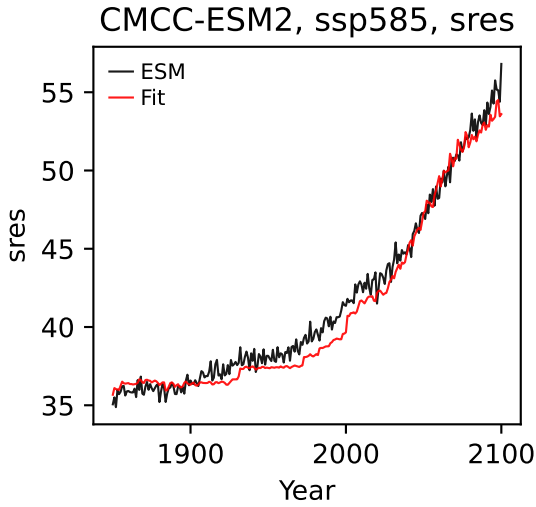

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
307, -0.2455, 36.2893, -0.7075, 0.1034, 0.0000, 0.9524, 0.8516, 0.
CMCC-ESM2
vres_t_e
vres_t_l
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6

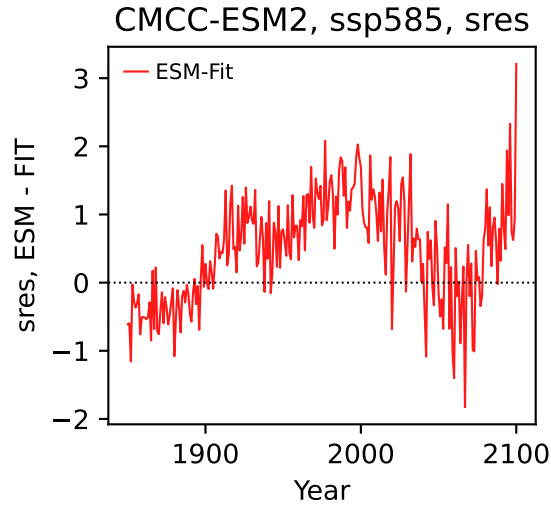

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
307, -0.2455, 36.2893, -0.7075, 0.1034, 0.0000, 0.9524, 0.8516, 0.
vres_c_half
vres_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

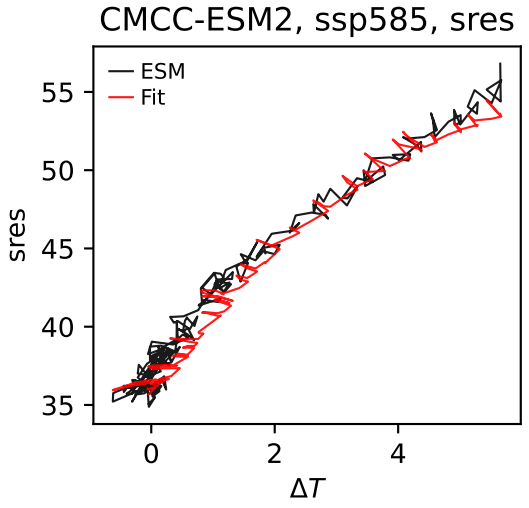

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
307, -0.2455, 36.2893, -0.7075, 0.1034, 0.0000, 0.9524, 0.8516, 0.
CMCC-ESM2
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

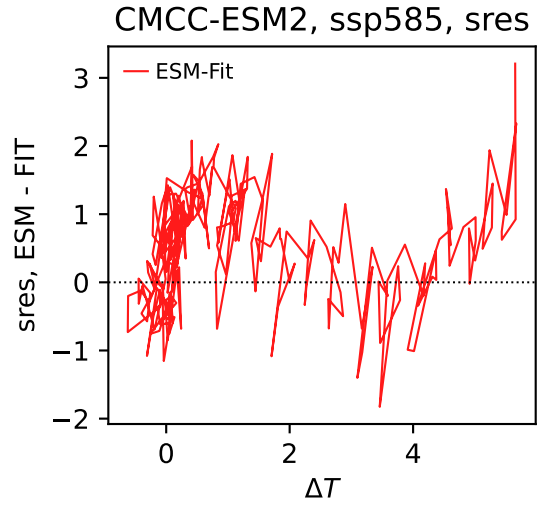

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
307, -0.2455, 36.2893, -0.7075, 0.1034, 0.0000, 0.9524, 0.8516, 0.
1e−131+5.037956102e−1
CMCC-ESM2
vres_c_tan2
vres_c_tan
0.04
0.02
0.00
−0.02
−0.04
5.4801
5.3602
5.2403
5.1203
5.0004
4.8805
4.7595
4.6396
4.5197

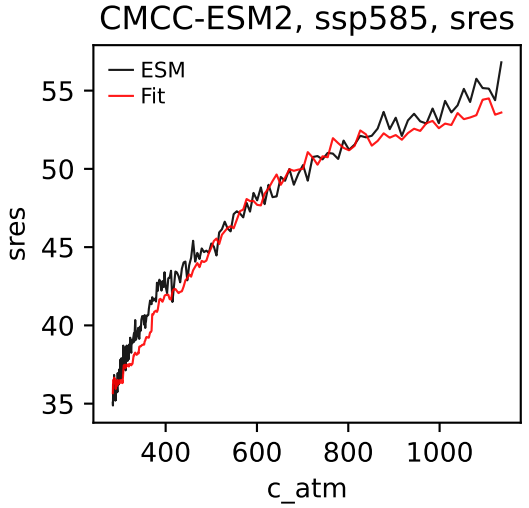

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
307, -0.2455, 36.2893, -0.7075, 0.1034, 0.0000, 0.9524, 0.8516, 0.
1e-13+5.0379561e-1
5.4801
5.3602
5.2403
5.1203
5.0004
4.8805
4.7595
4.6396
4.5197
0.94
0.92
0.90
0.88
0.86
vres_slow
CMCC-ESM2
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast

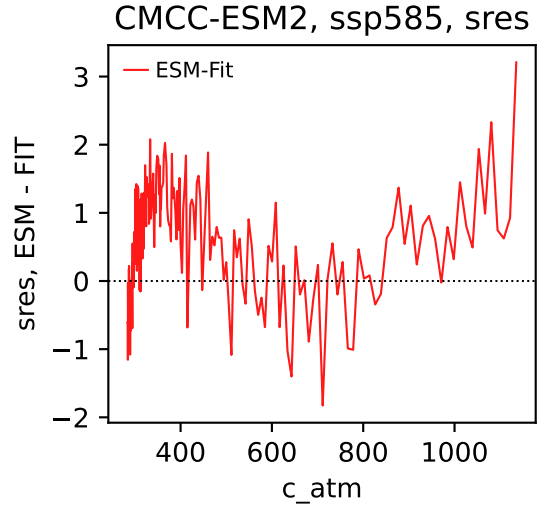

CMCC-ESM2, ssp585, sres
ESM
Fit
sres
Year

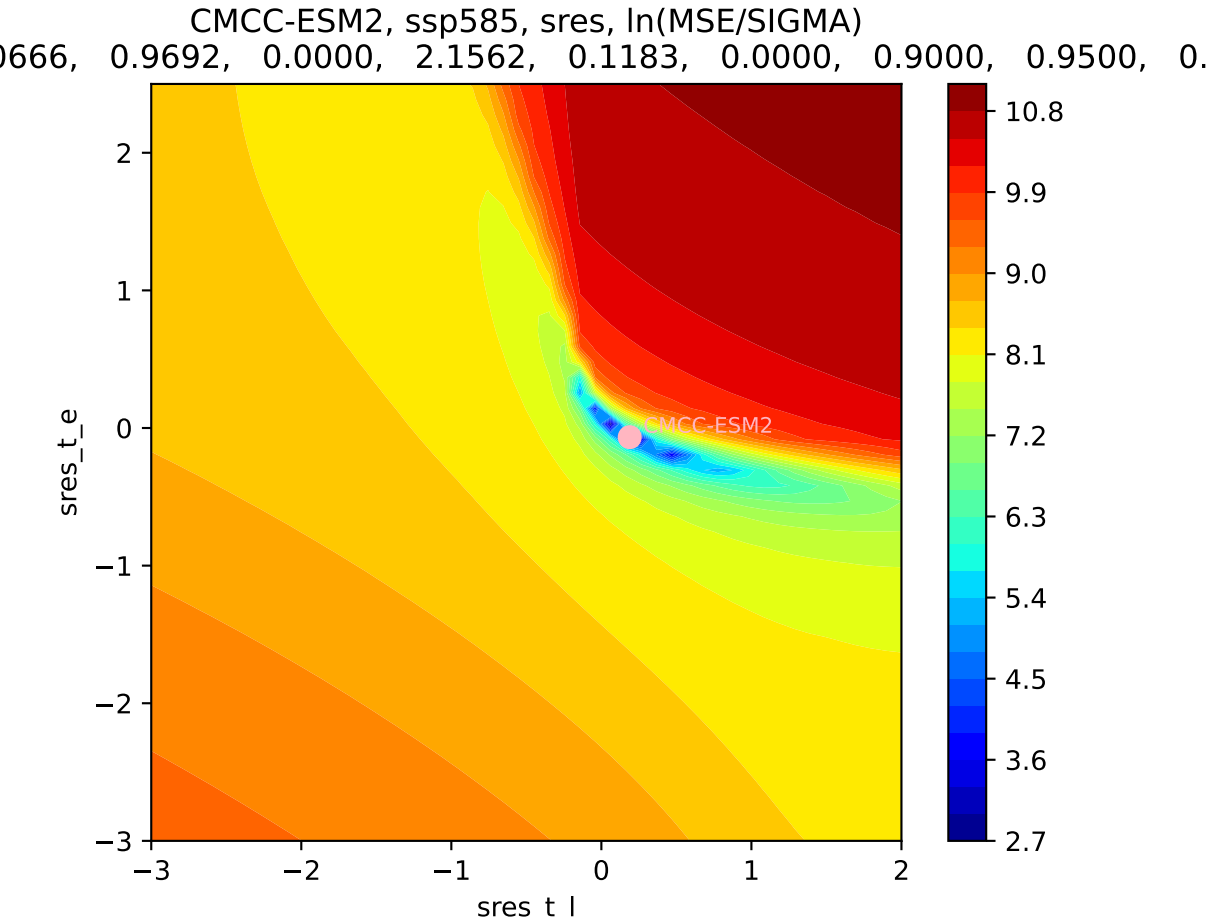

CMCC-ESM2, ssp585, sres
ESM-Fit
sres, ESM - FIT
Year

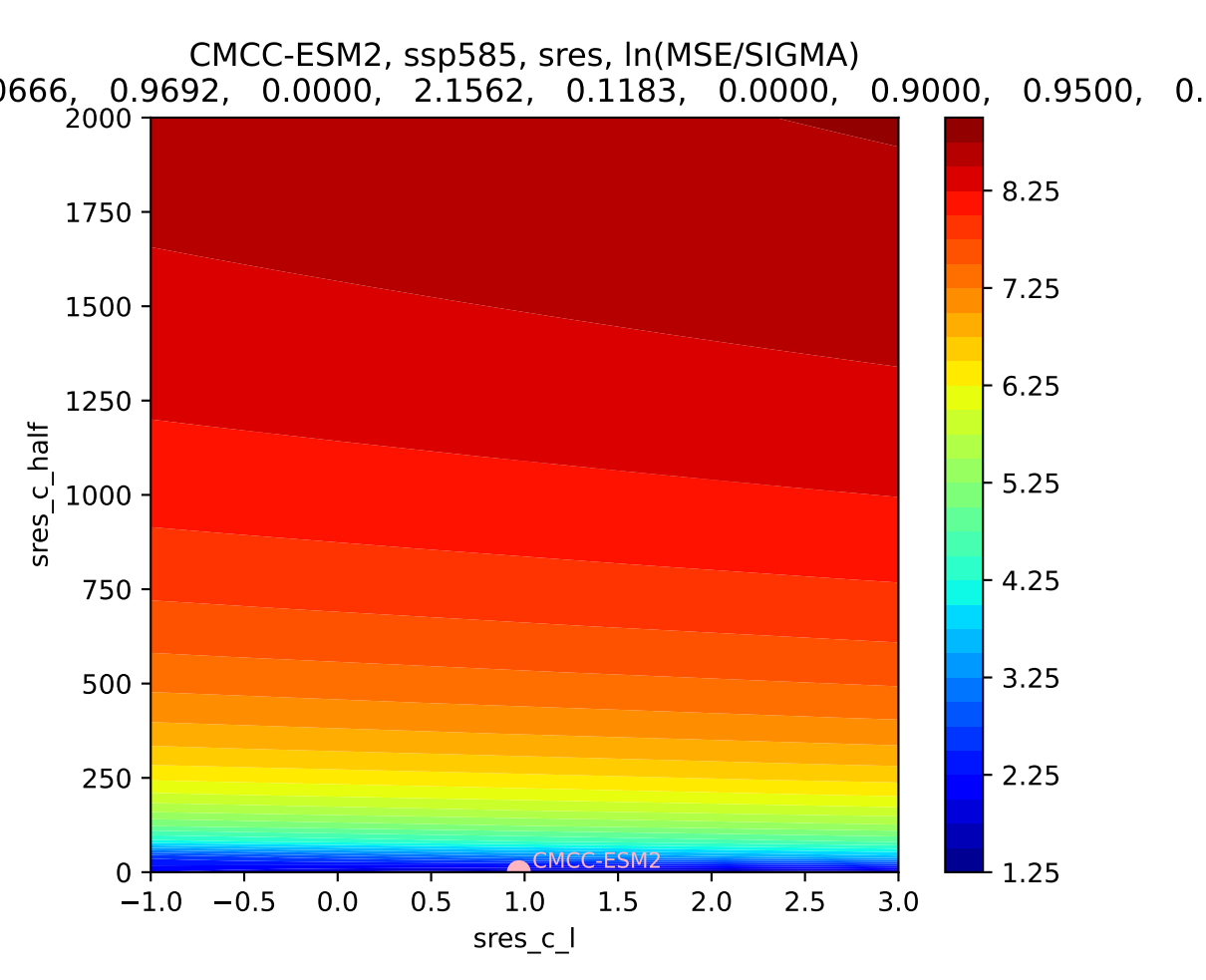

CMCC-ESM2, ssp585, sres
ESM
Fit
sres
ΔT

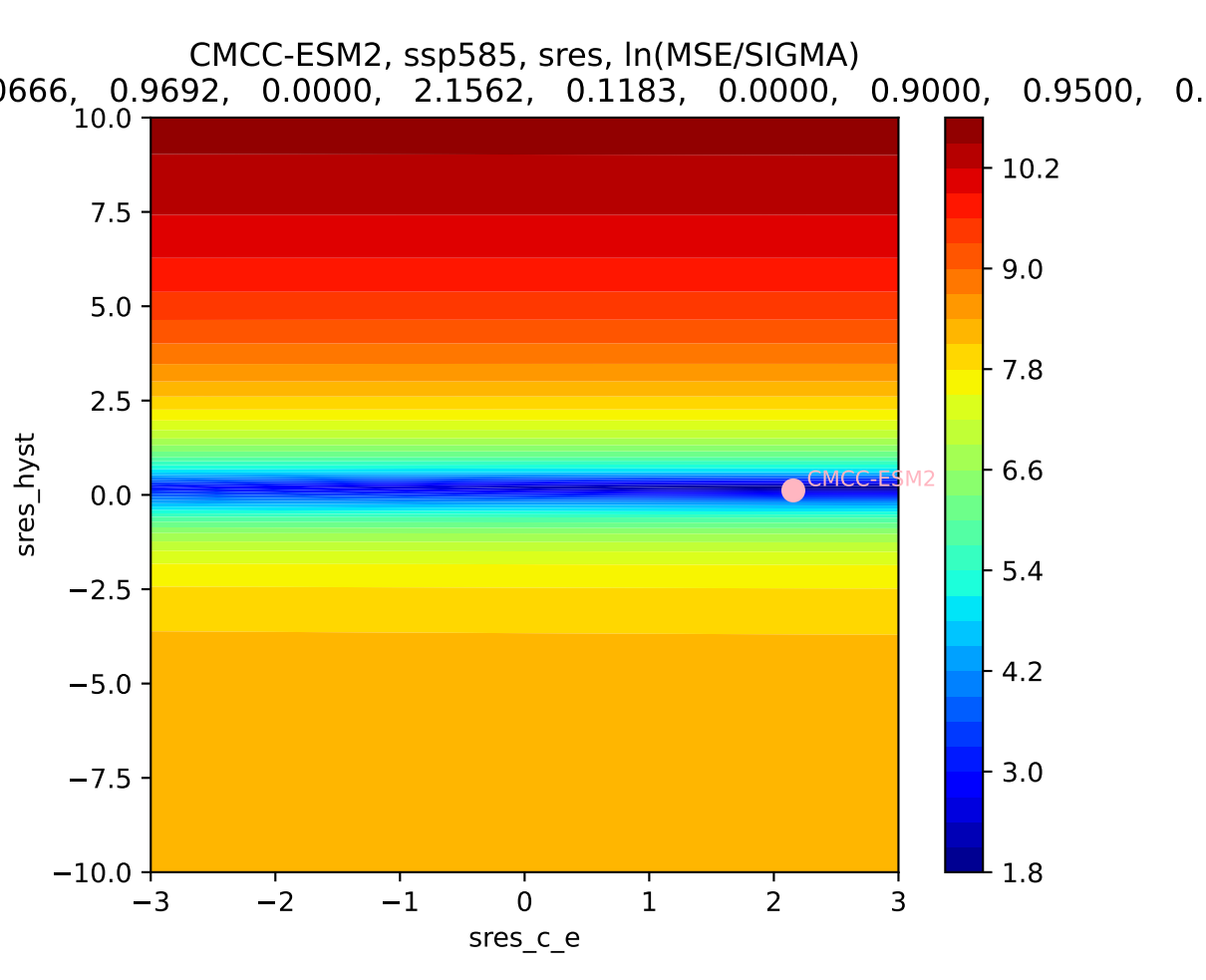

CMCC-ESM2, ssp585, sres
ESM-Fit
sres, ESM - FIT
ΔT

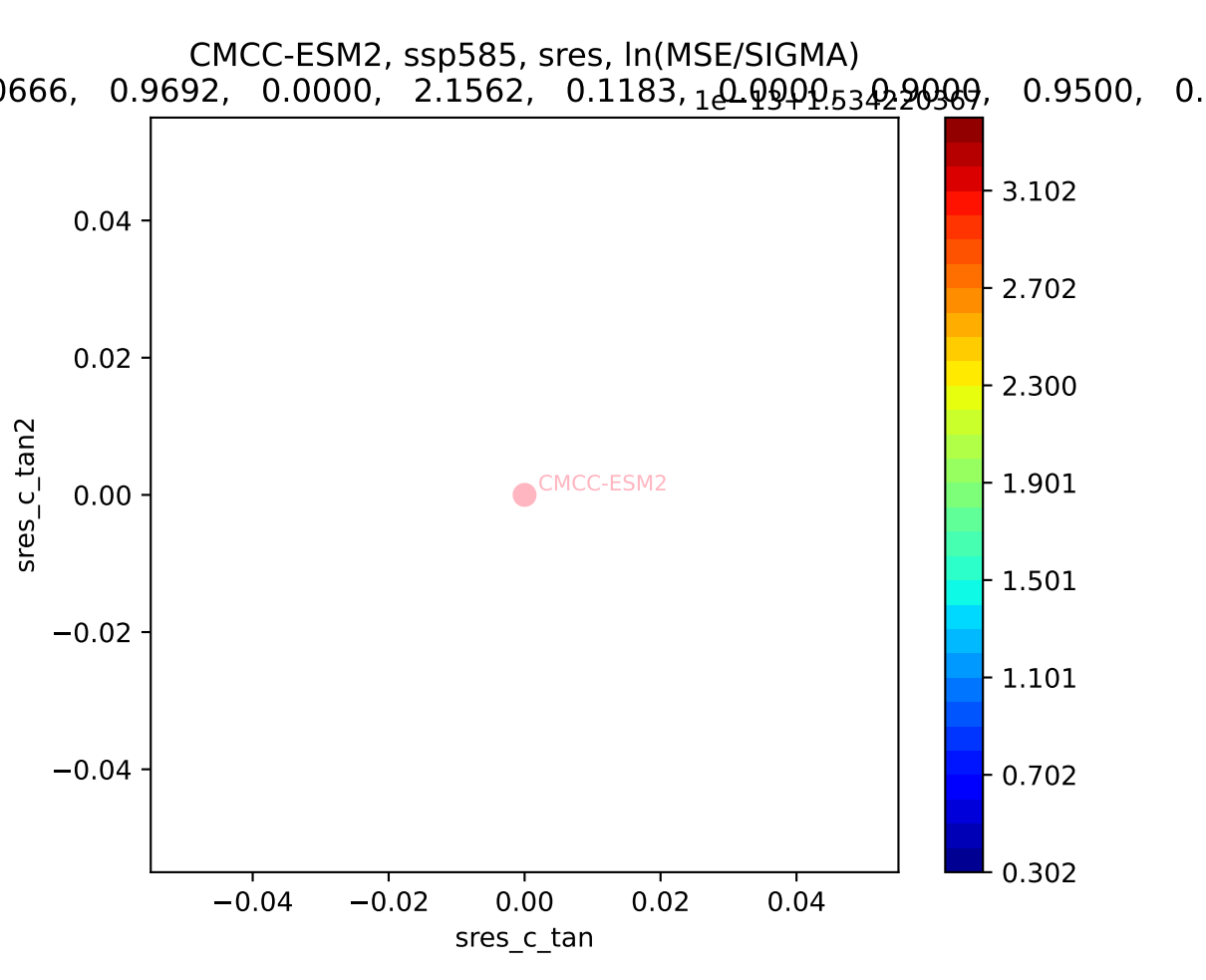

CMCC-ESM2, ssp585, sres
ESM
Fit
sres
c_atm

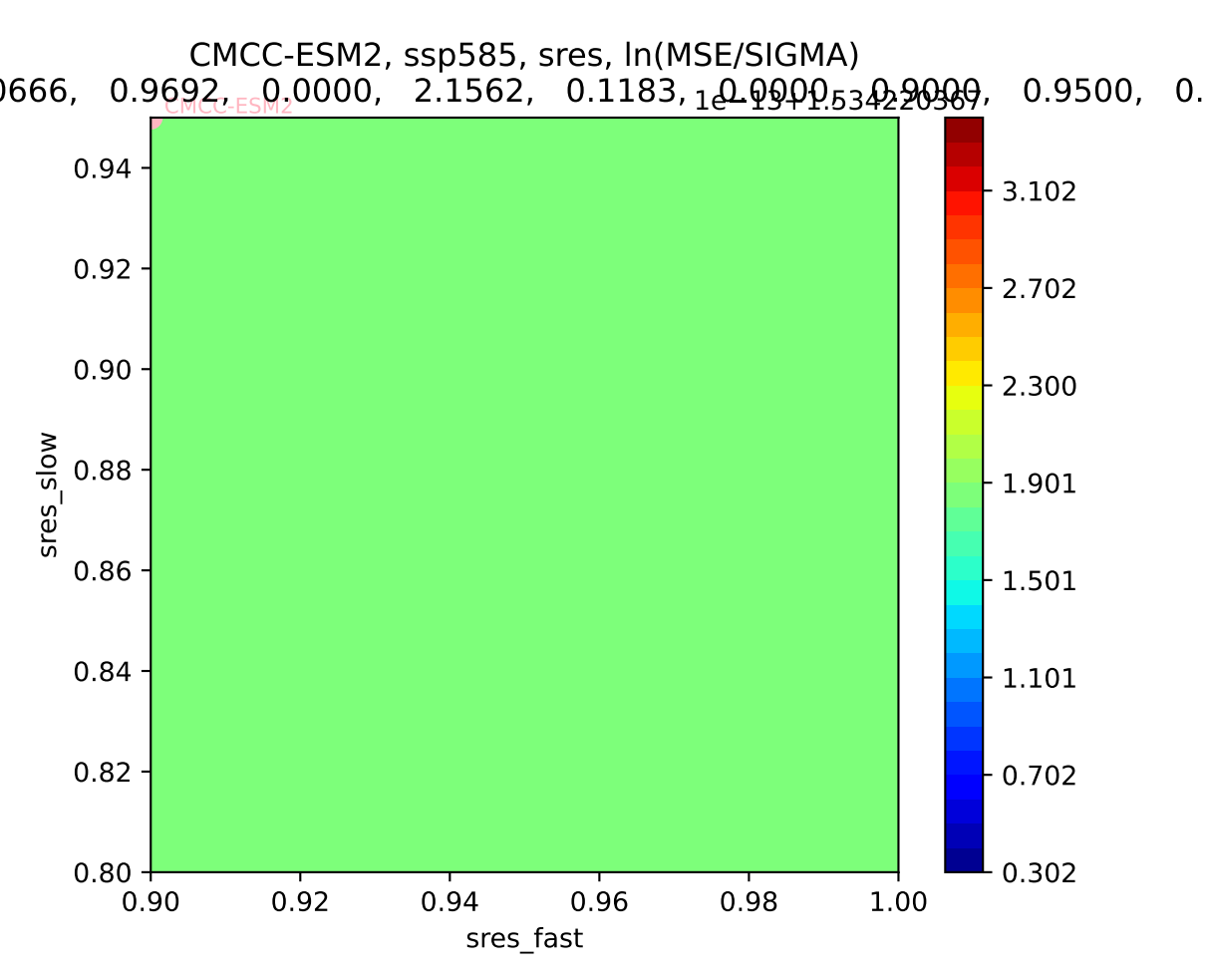

CMCC-ESM2, ssp585, sres
ESM-Fit
sres, ESM - FIT
c_atm

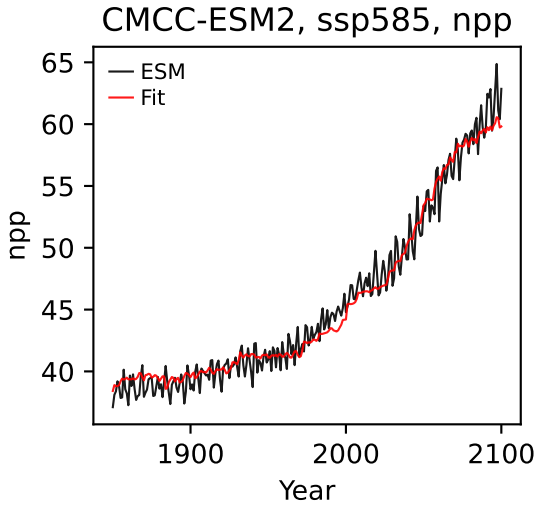

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0666, 0.9692, 0.0000, 2.1562, 0.1183, 0.0000, 0.9000, 0.9500, 0.
CMCC-ESM2
sres_t_e
sres_t_l
−3
−2
−1
0
1
2
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7

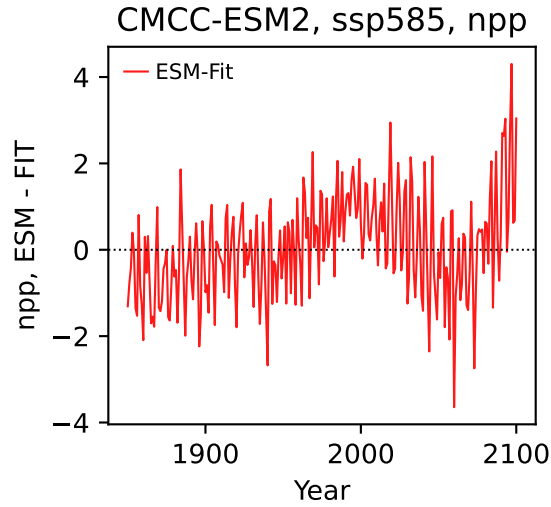

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0666, 0.9692, 0.0000, 2.1562, 0.1183, 0.0000, 0.9000, 0.9500, 0.
2000
1750
1500
1250
1000
750
500
250
0
sres_c_half
CMCC-ESM2
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
sres_c_l
8.25
7.25
6.25
5.25
4.25
3.25
2.25
1.25

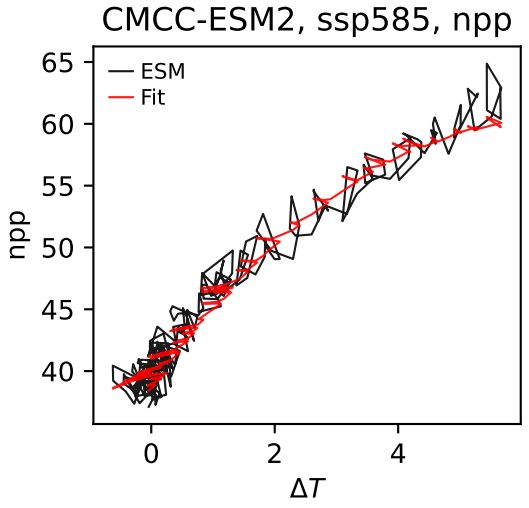

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0666, 0.9692, 0.0000, 2.1562, 0.1183, 0.0000, 0.9000, 0.9500, 0.
sres_hyst
sres_c_e
CMCC-ESM2
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8

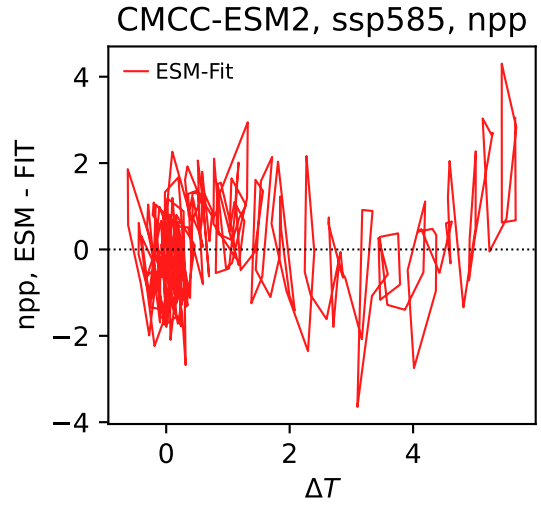

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0666, 0.9692, 0.0000, 2.1562, 0.1183, 0.0000, 0.9000, 0.9500, 0.
1e−13+1.534220367
CMCC-ESM2
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
3.102
2.702
2.300
1.901
1.501
1.101
0.702
0.302

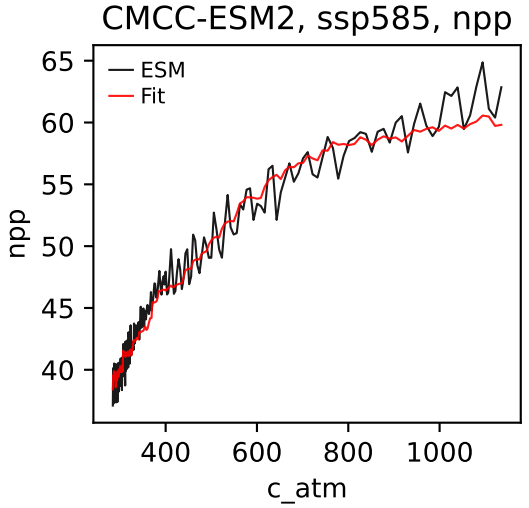

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0666, 0.9692, 0.0000, 2.1562, 0.1183, 0.0000, 0.9000, 0.9500, 0.
1e−13+1.534220367
CMCC-ESM2
sres_slow
sres_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
3.102
2.702
2.300
1.901
1.501
1.101
0.702
0.302

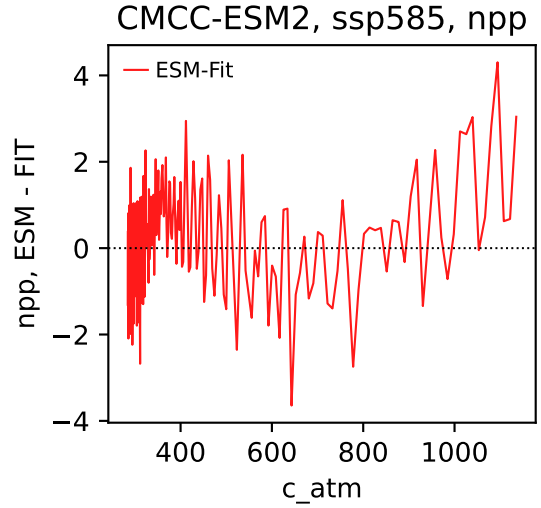

CMCC-ESM2, ssp585, npp
ESM
Fit
npp
Year

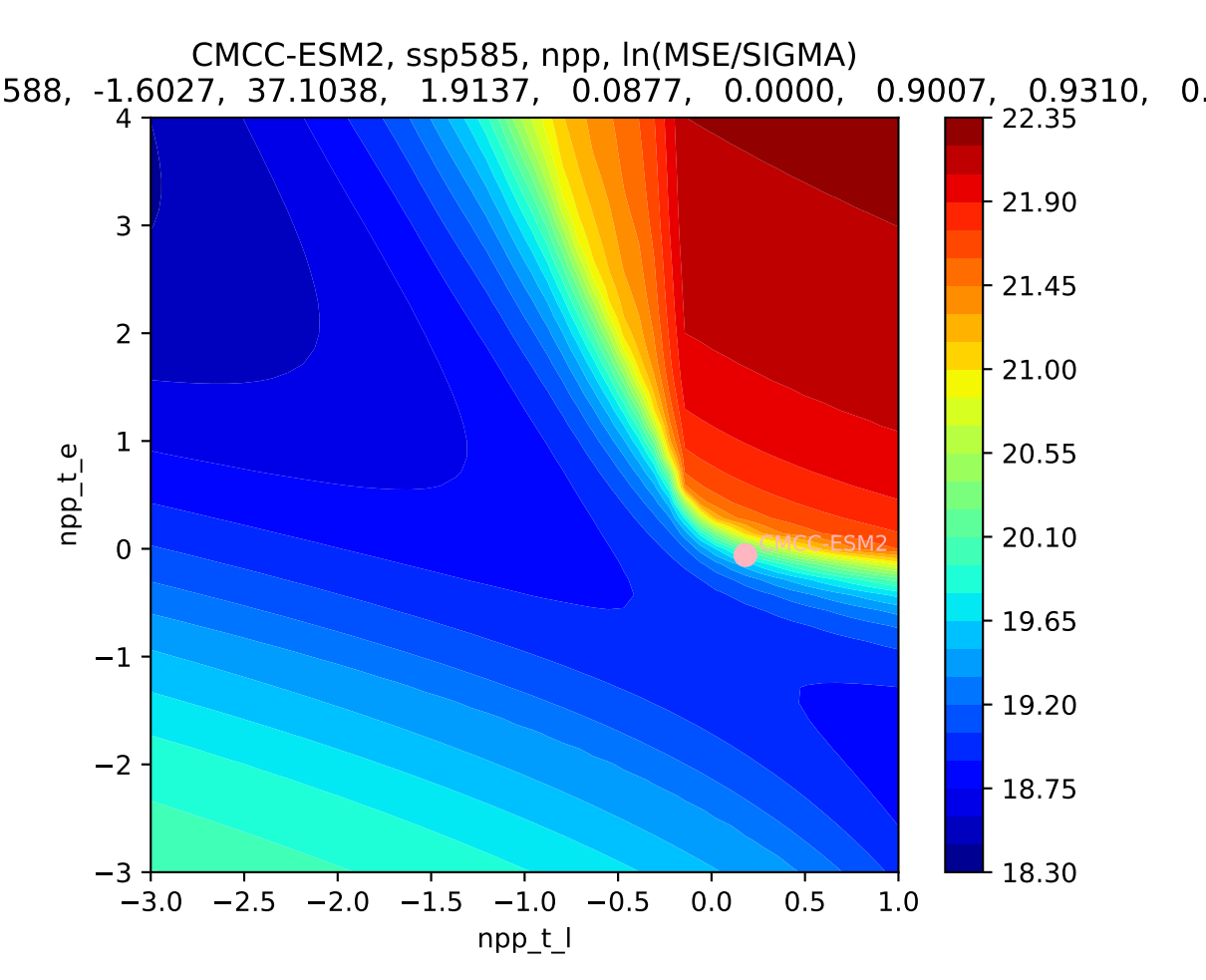

CMCC-ESM2, ssp585, npp
ESM-Fit
npp, ESM - FIT
Year

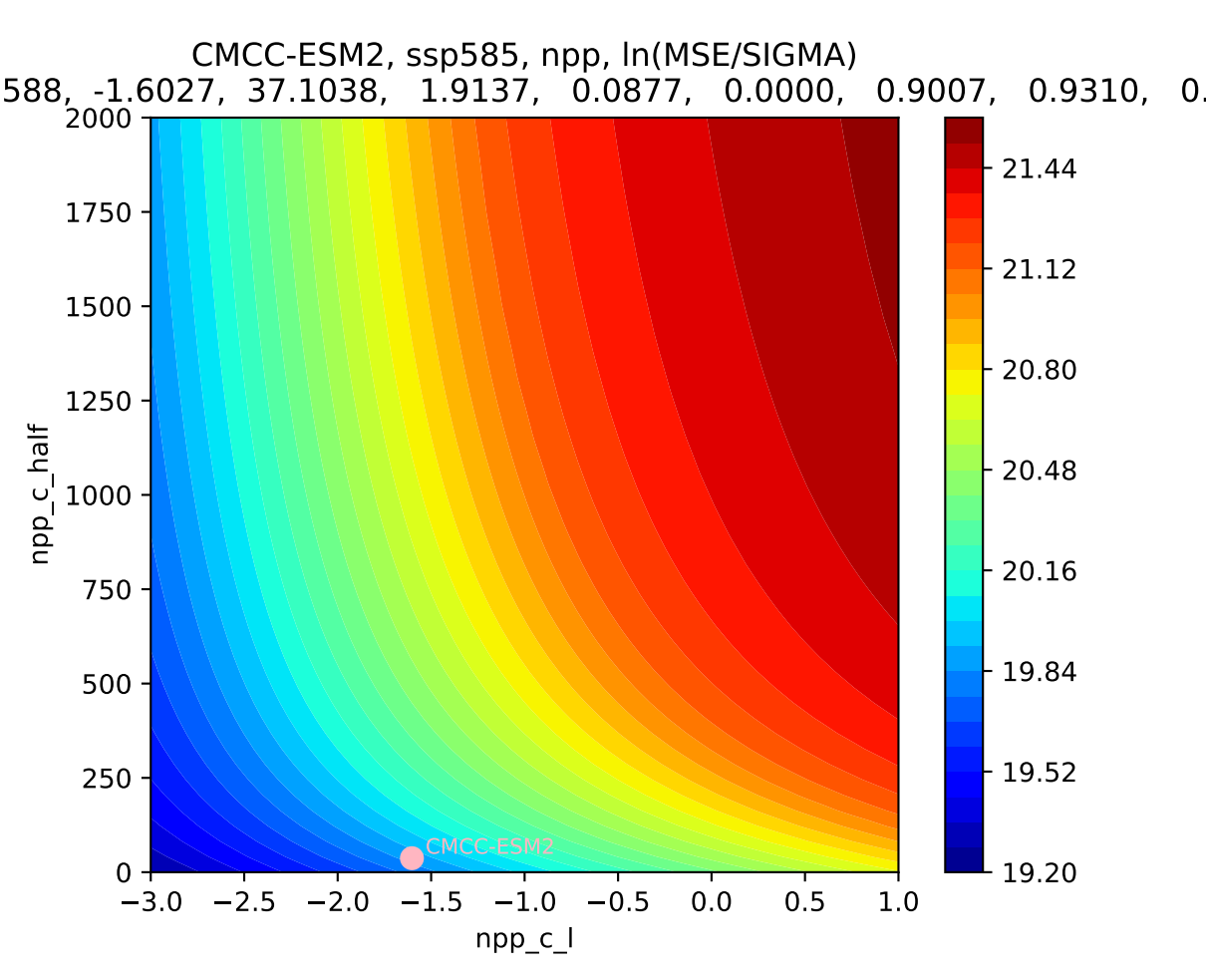

CMCC-ESM2, ssp585, npp
ESM
Fit
npp
ΔT

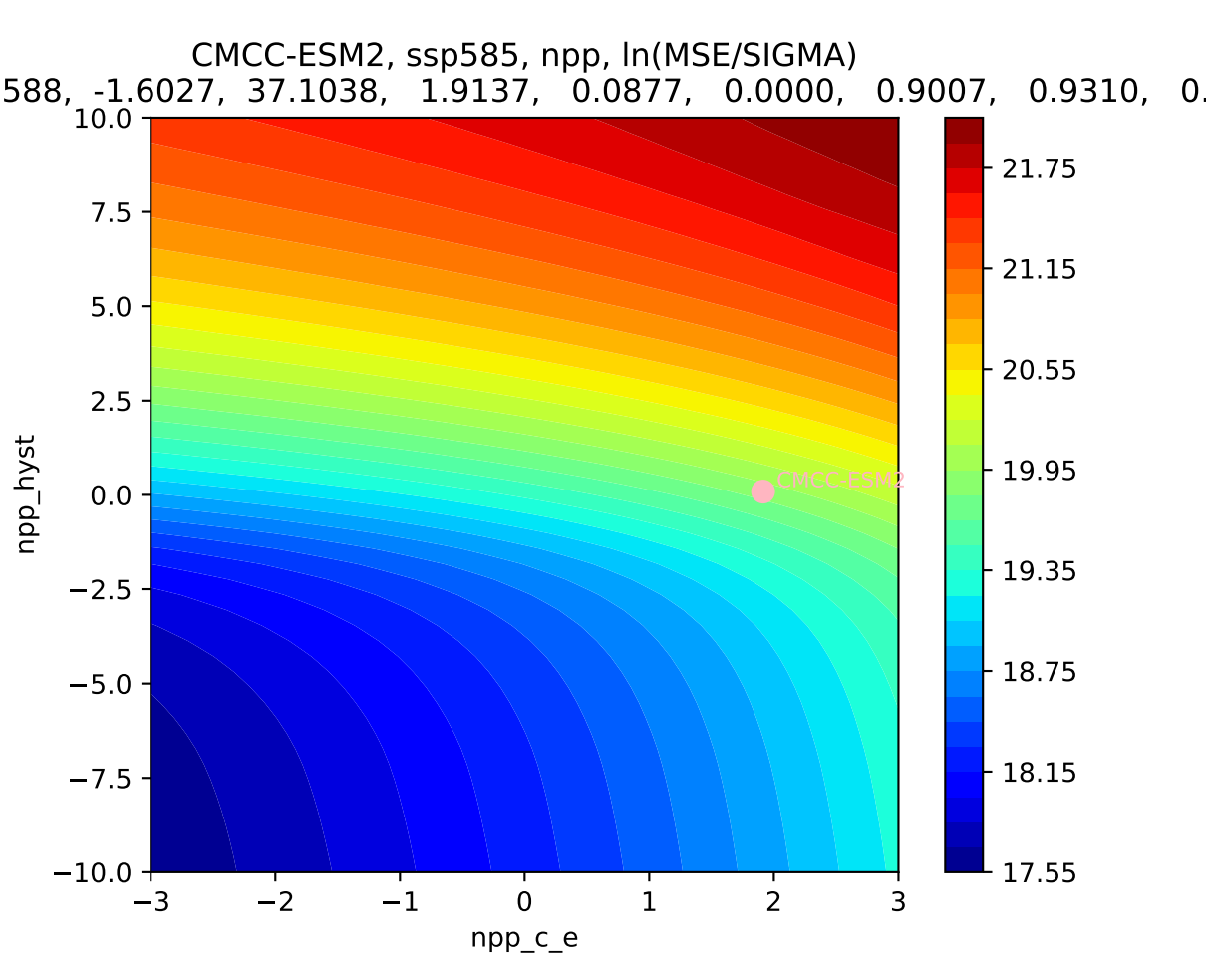

CMCC-ESM2, ssp585, npp
ESM-Fit
npp, ESM - FIT
ΔT

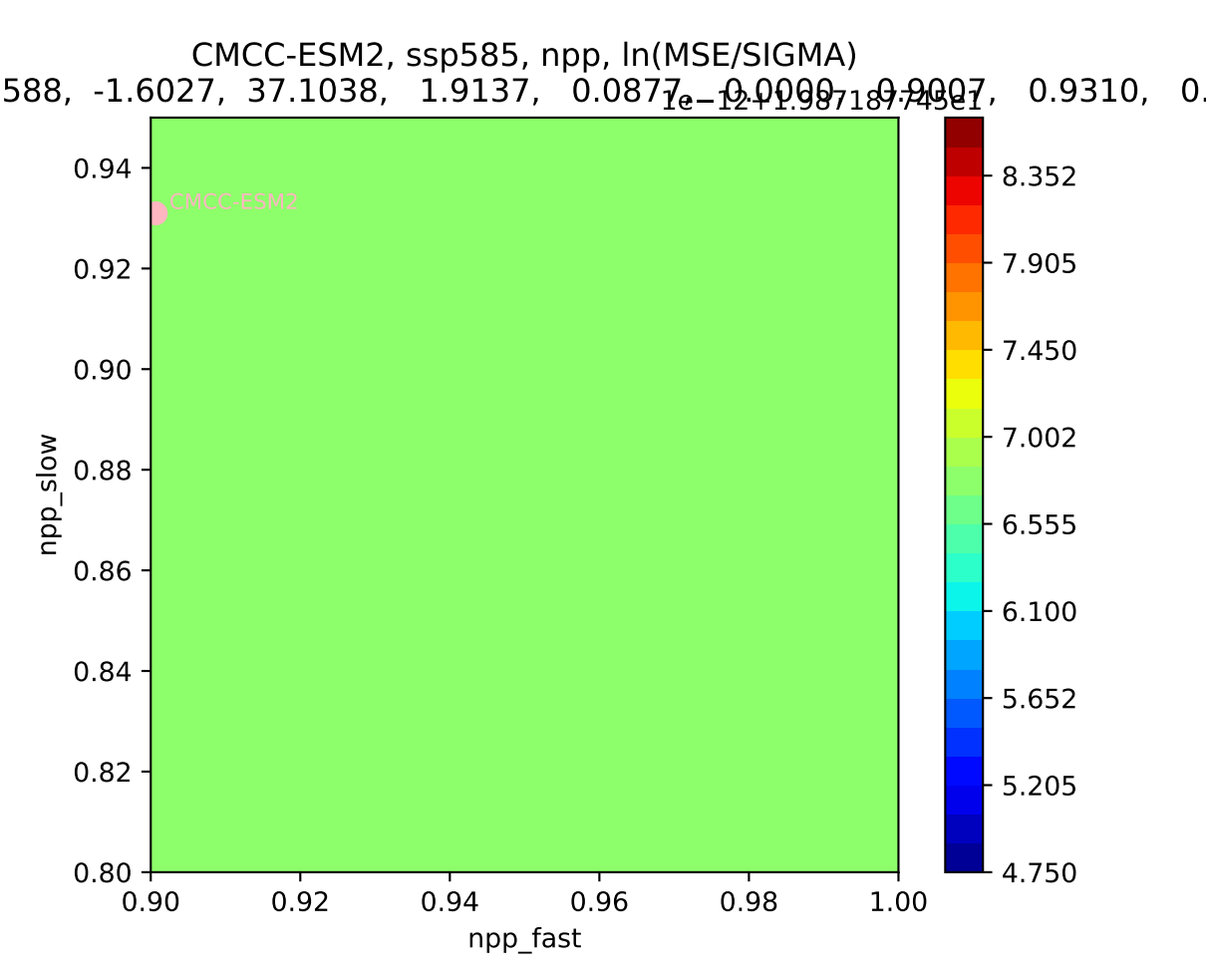

CMCC-ESM2, ssp585, npp
ESM
Fit
npp
c_atm

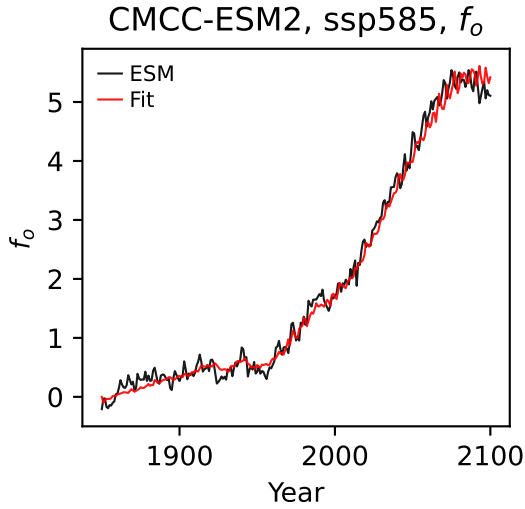

CMCC-ESM2, ssp585, npp
ESM-Fit
npp, ESM - FIT
c_atm

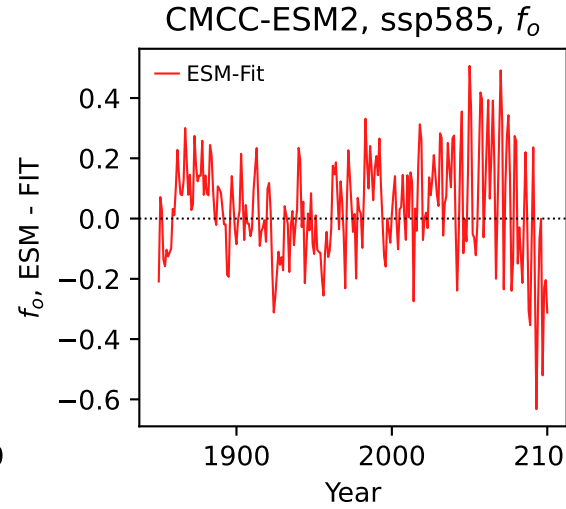

CMCC-ESM2, ssp585, npp, ln(MSE/SIGMA)
588, -1.6027, 37.1038, 1.9137, 0.0877, 0.0000, 0.9007, 0.9310, 0.
CMCC-ESM2
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.35
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75
18.30

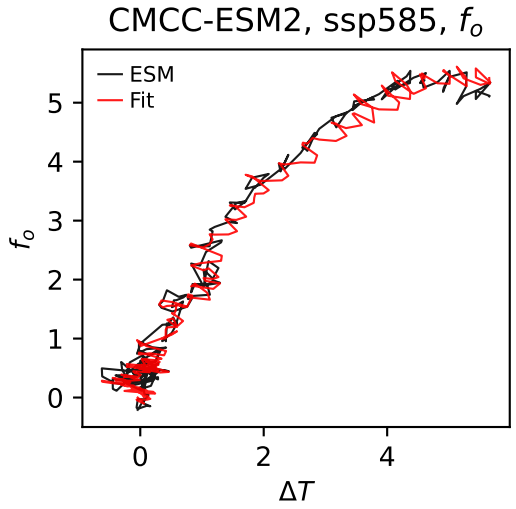

CMCC-ESM2, ssp585, npp, ln(MSE/SIGMA)
588, -1.6027, 37.1038, 1.9137, 0.0877, 0.0000, 0.9007, 0.9310, 0.
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
CMCC-ESM2
21.44
21.12
20.80
20.48
20.16
19.84
19.52
19.20

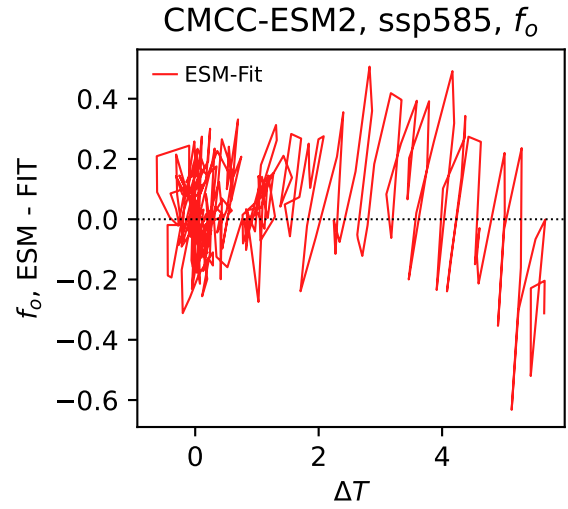

CMCC-ESM2, ssp585, npp, ln(MSE/SIGMA)
588, -1.6027, 37.1038, 1.9137, 0.0877, 0.0000, 0.9007, 0.9310, 0.
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
npp_hyst
−3
−2
−1
0
1
2
3
npp_c_e
CMCC-ESM2
21.75
21.15
20.55
19.95
19.35
18.75
18.15
17.55

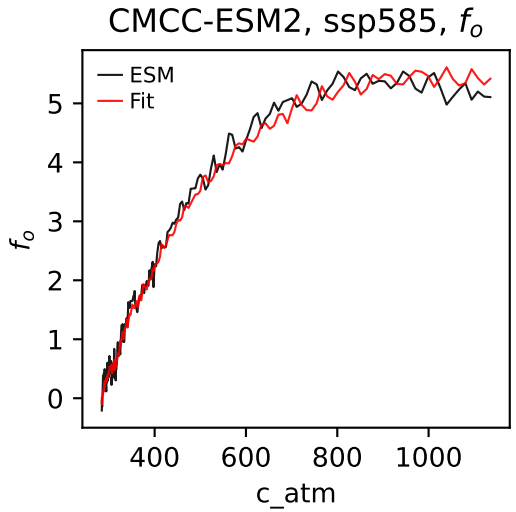

CMCC-ESM2, ssp585, npp, ln(MSE/SIGMA)
588, -1.6027, 37.1038, 1.9137, 0.0877, 0.0000, 0.9007, 0.9310, 0.
1e−12+1.9871874e1
CMCC-ESM2
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
8.352
7.905
7.450
7.002
6.555
6.100
5.652
5.205
4.750

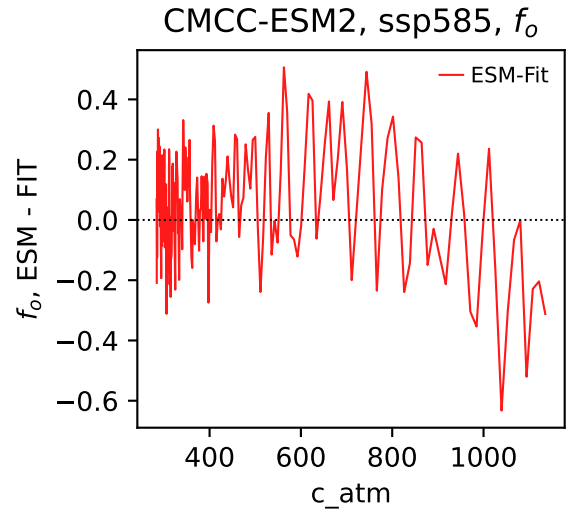

CMCC-ESM2, ssp585, f_o
ESM
Fit
f_o
Year

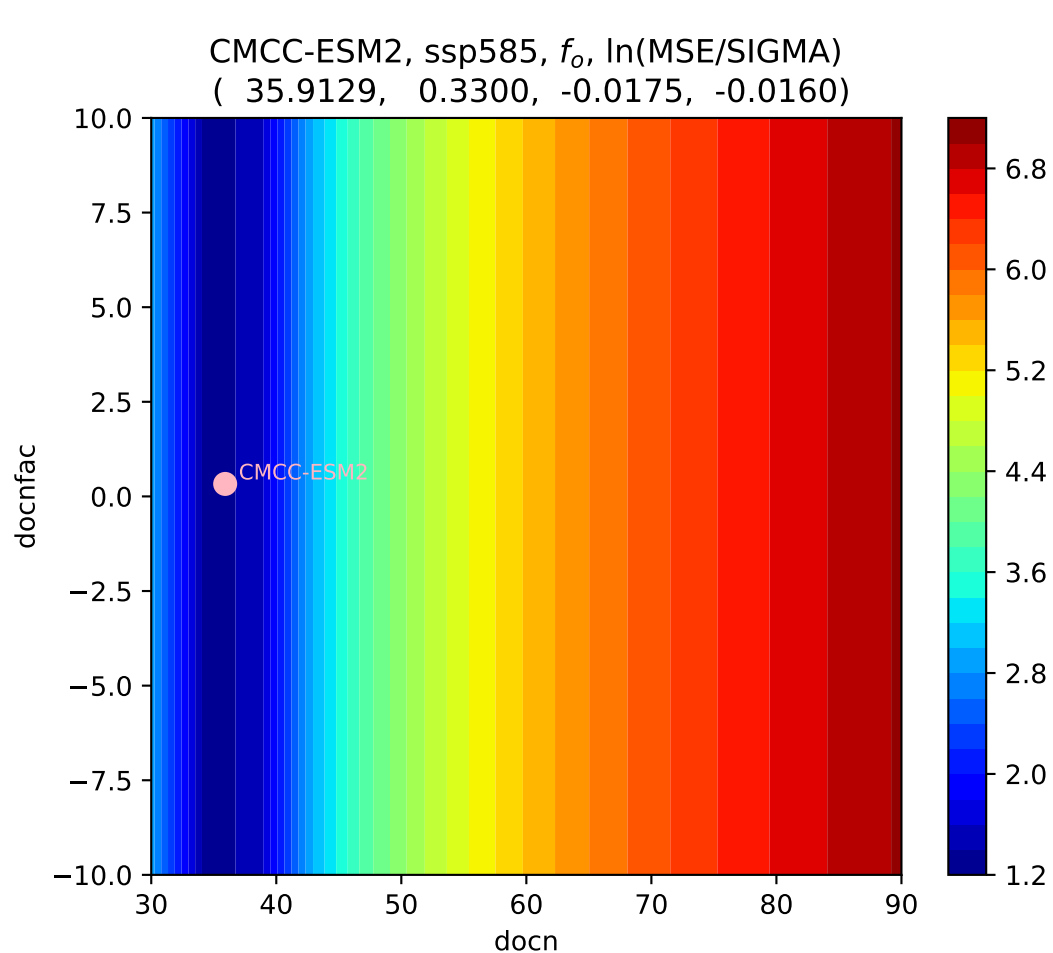

CMCC-ESM2, ssp585, f_o
ESM-Fit
f_o, ESM - FIT
Year

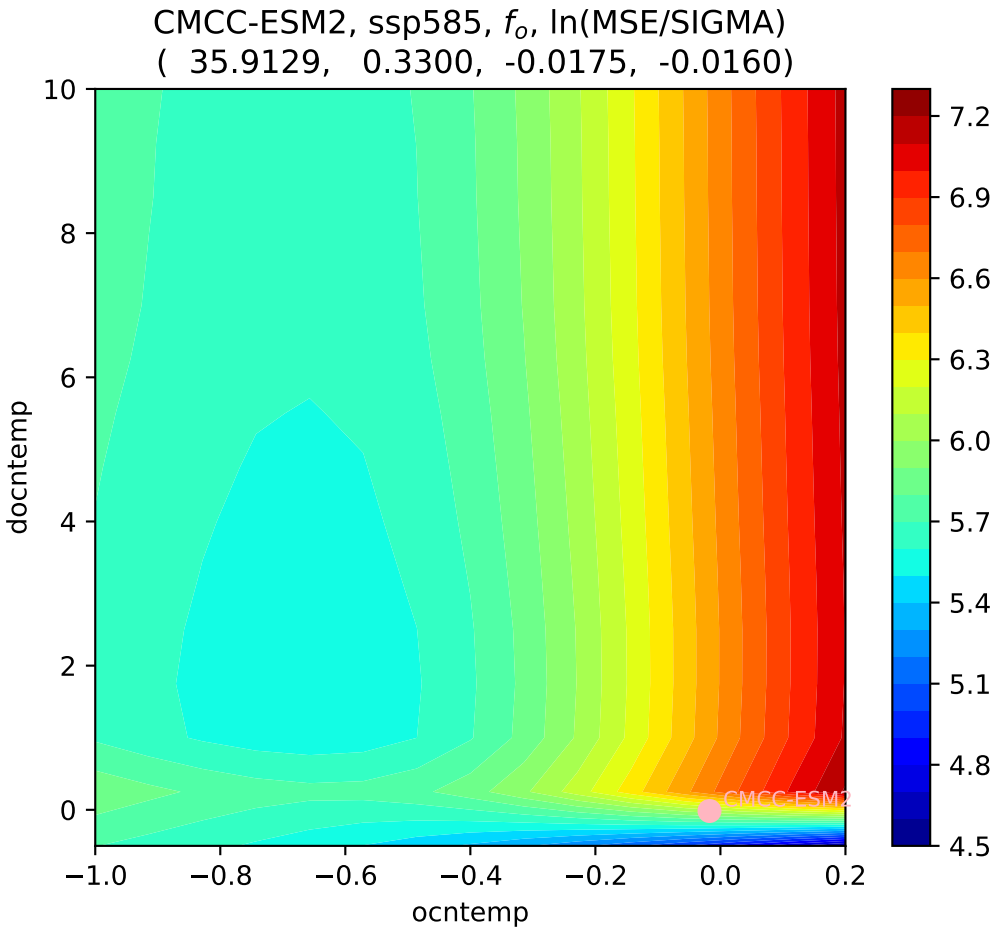

CMCC-ESM2, ssp585, f_o
ESM
Fit
f_o
ΔT


CMCC-ESM2, ssp585, f_o
ESM-Fit
f_o, ESM - FIT
ΔT


CMCC-ESM2, ssp585, f_o
ESM
Fit
f_o
c_atm


CMCC-ESM2, ssp585, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


CMCC-ESM2, ssp585, f_o, ln(MSE/SIGMA)
(35.9129, 0.3300, -0.0175, -0.0160)
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
6.8
6.0
5.2
4.4
3.6
2.8
2.0
1.2


CMCC-ESM2, ssp585, f_o, ln(MSE/SIGMA)
(35.9129, 0.3300, -0.0175, -0.0160)
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
7.2
6.9
6.6
6.3
6.0
5.7
5.4
5.1
4.8
4.5
CMCC-ESM2