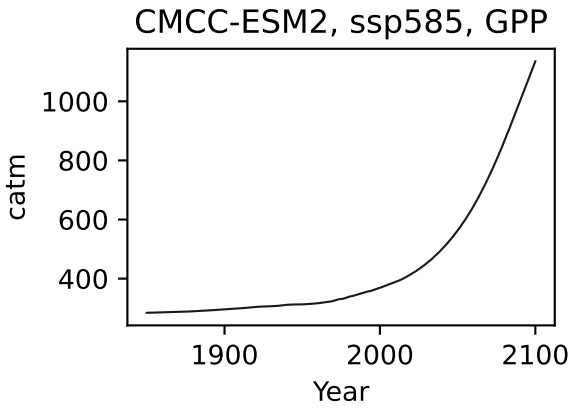
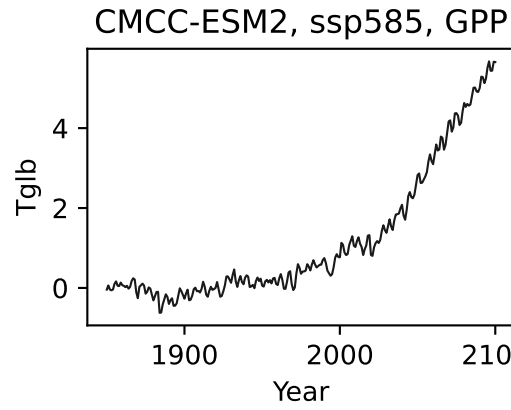
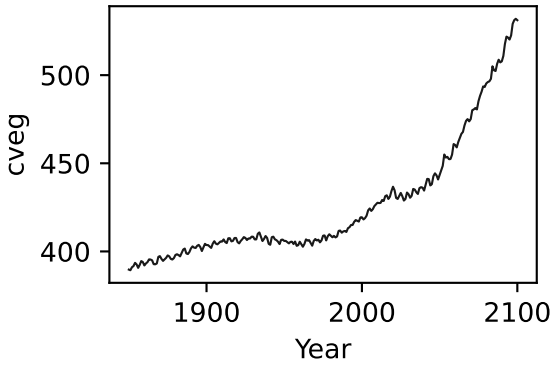
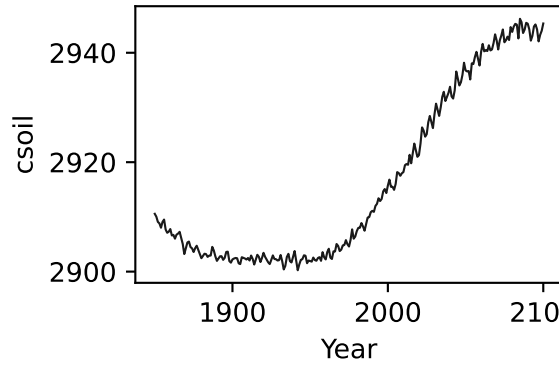
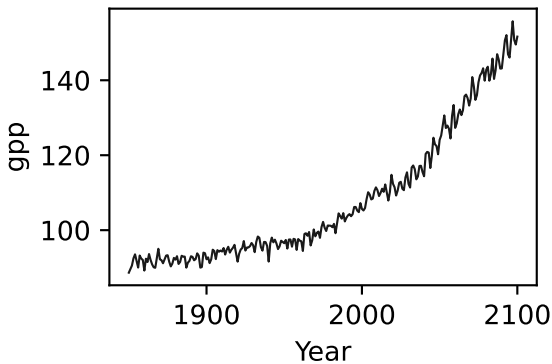
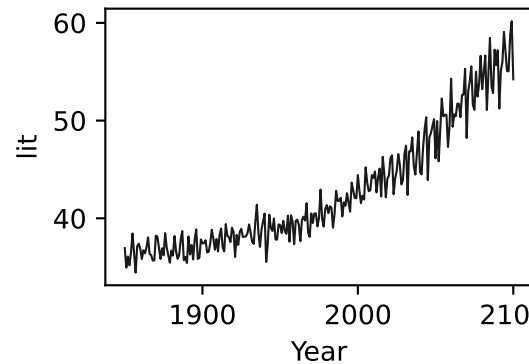

CMCC-ESM2, ssp585, GPP
catm
1000
800
600
400
1900
2000
2100
Year

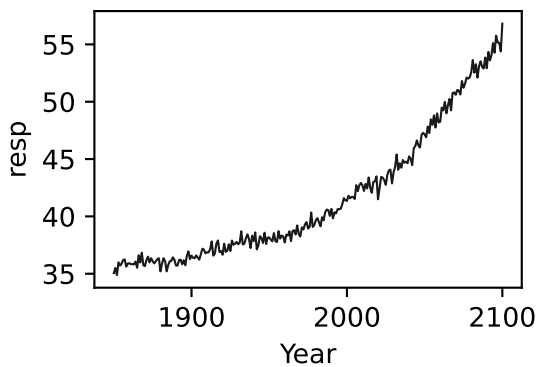

CMCC-ESM2, ssp585, GPP
Tglb
4
2
0
1900
2000
2100
Year

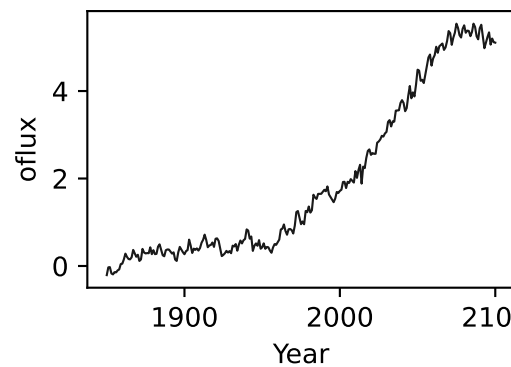

cveg
500
450
400
1900
2000
2100
Year

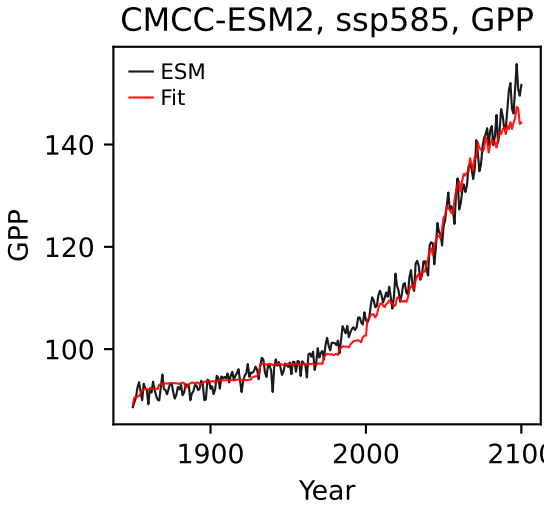

csoil
2940
2920
2900
1900
2000
2100
Year

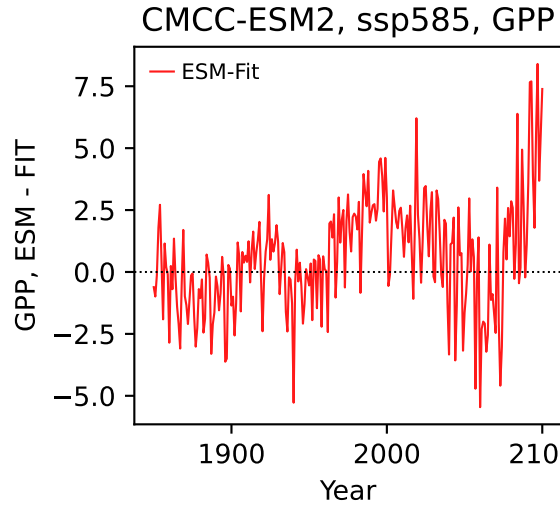

gpp
140
120
100
1900
2000
2100
Year

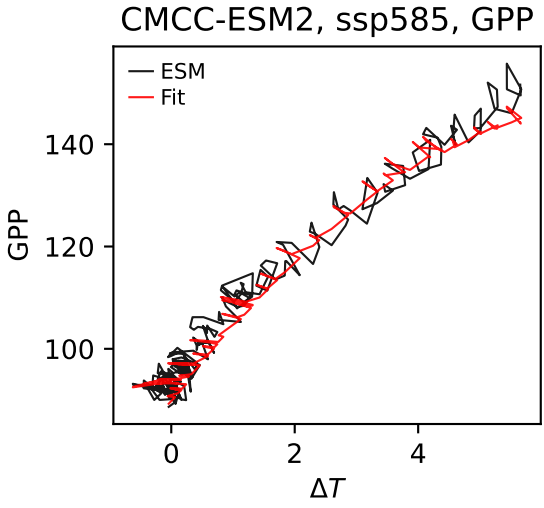

lit
60
50
40
1900
2000
2100
Year

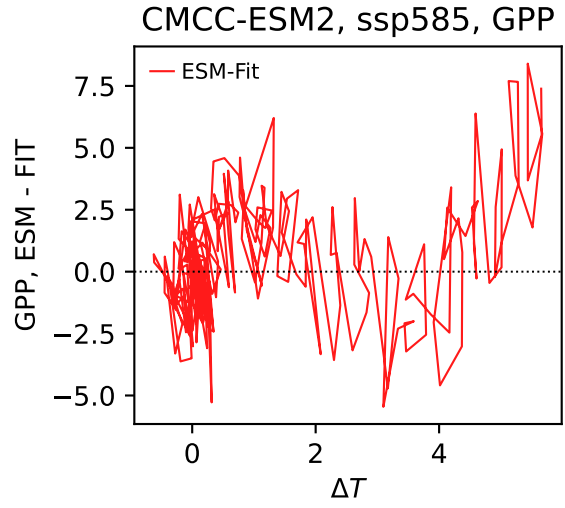

resp
55
50
45
40
35
1900
2000
2100
Year

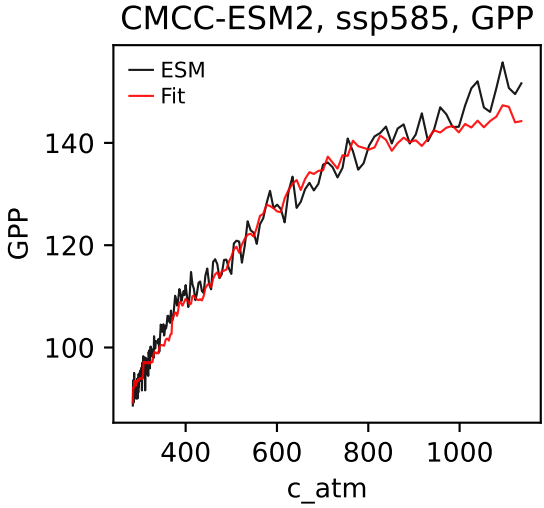

oflux
4
2
0
1900
2000
2100
Year

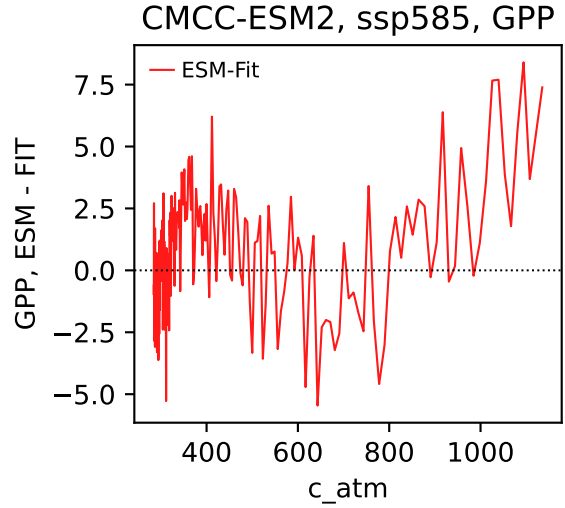

CMCC-ESM2, ssp585, GPP
ESM
Fit
GPP
140
120
100
1900
2000
2100
Year

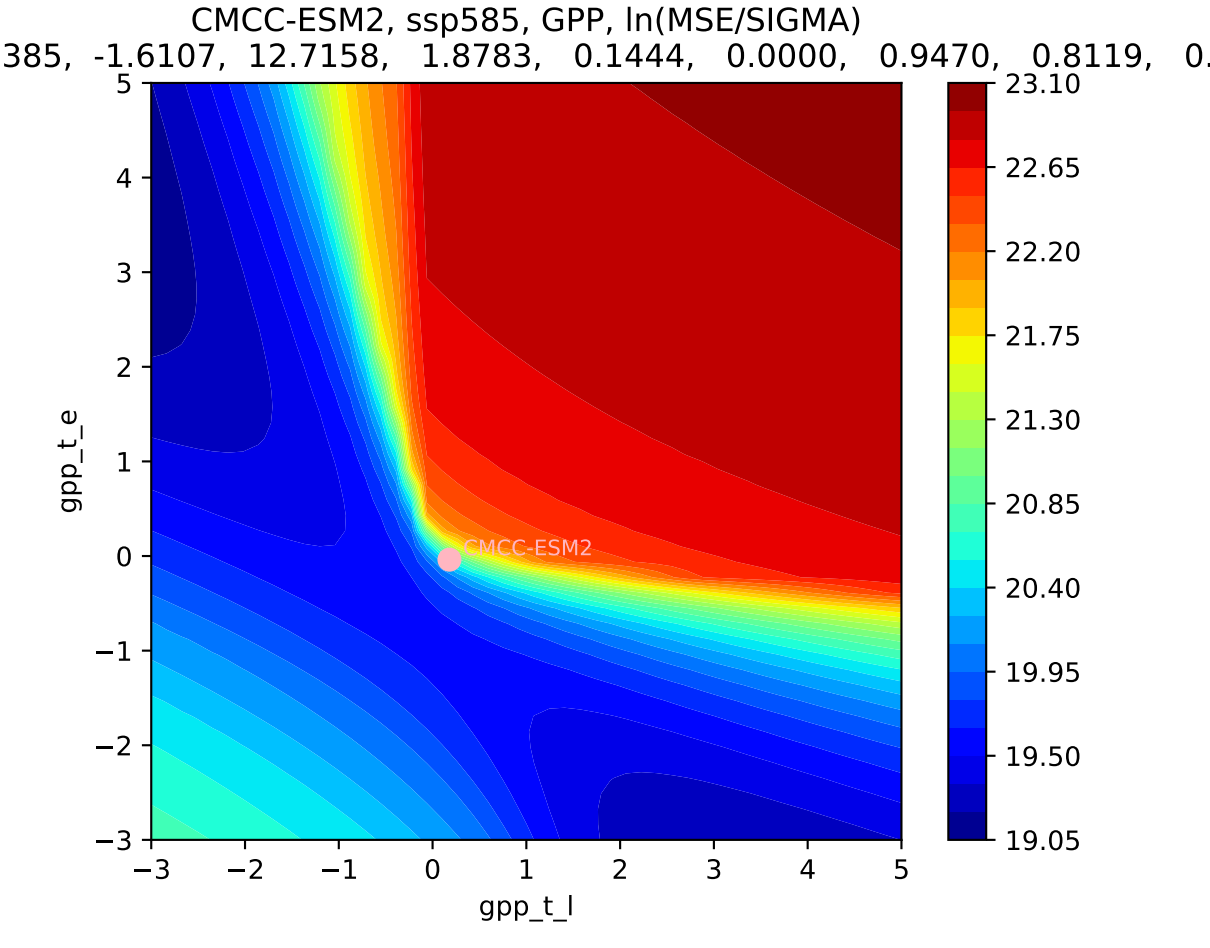

CMCC-ESM2, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
7.5
5.0
2.5
0.0
−2.5
−5.0
1900
2000
2100
Year

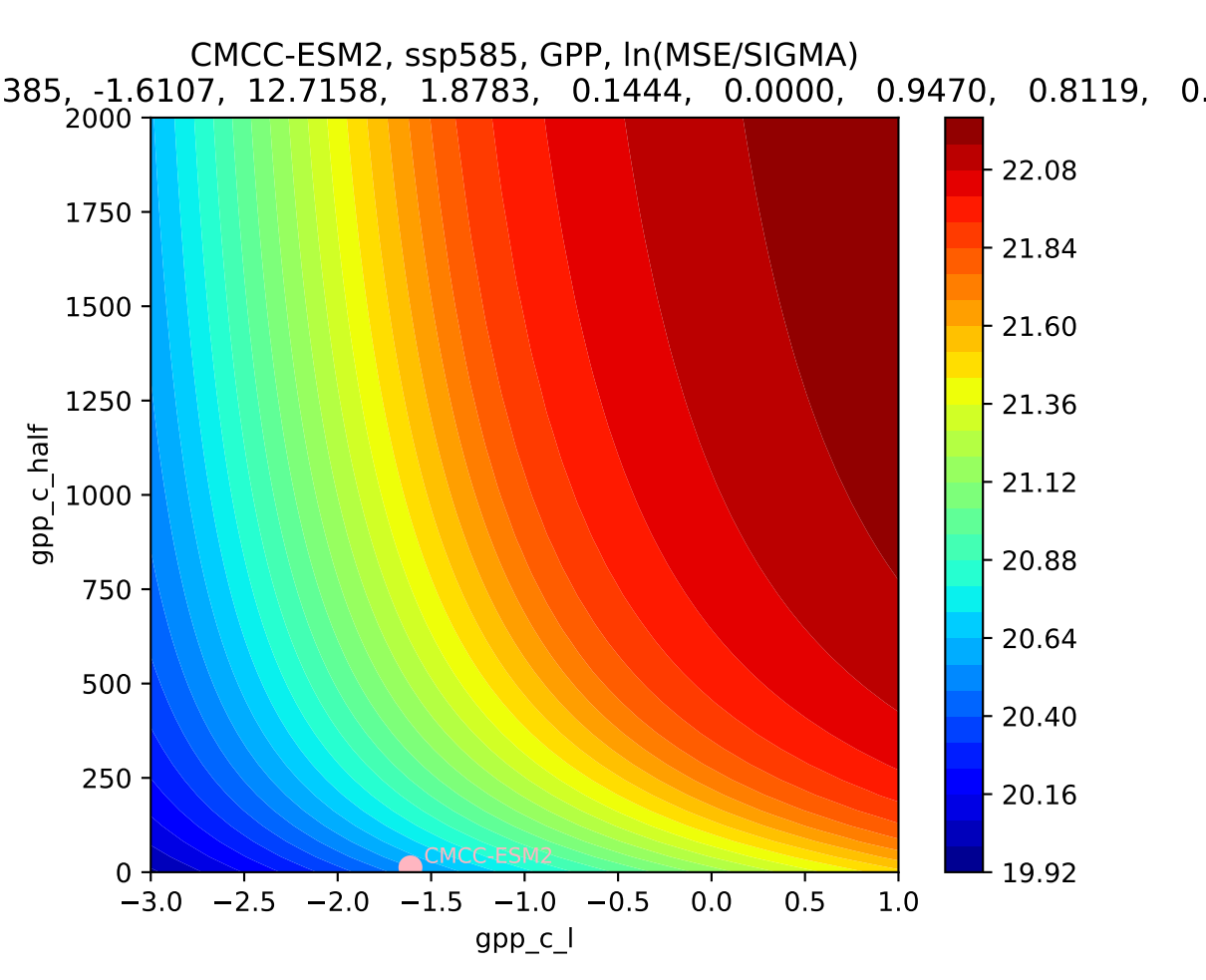

CMCC-ESM2, ssp585, GPP
ESM
Fit
GPP
140
120
100
0
2
4
ΔT

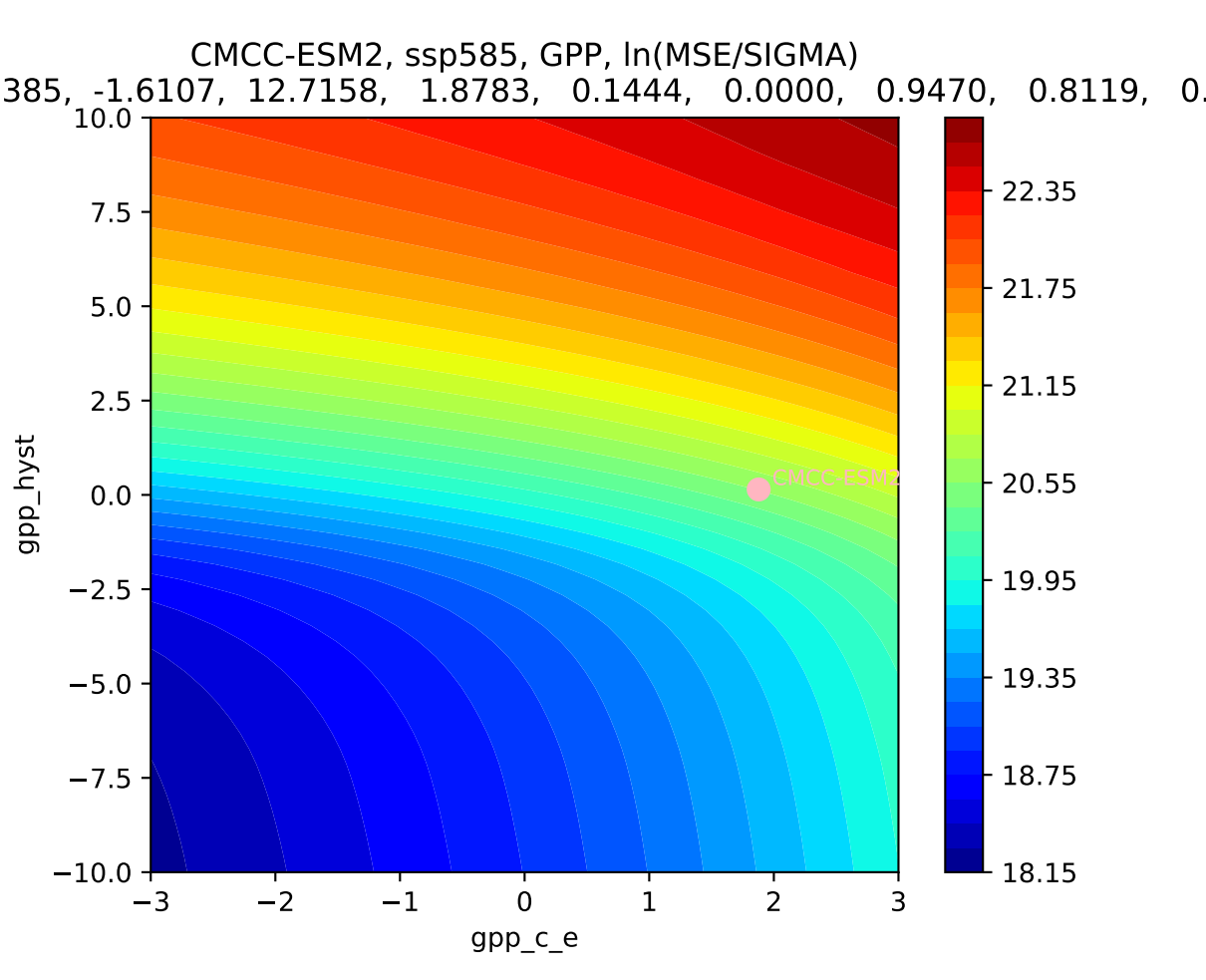

CMCC-ESM2, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
7.5
5.0
2.5
0.0
−2.5
−5.0
0
2
4
ΔT

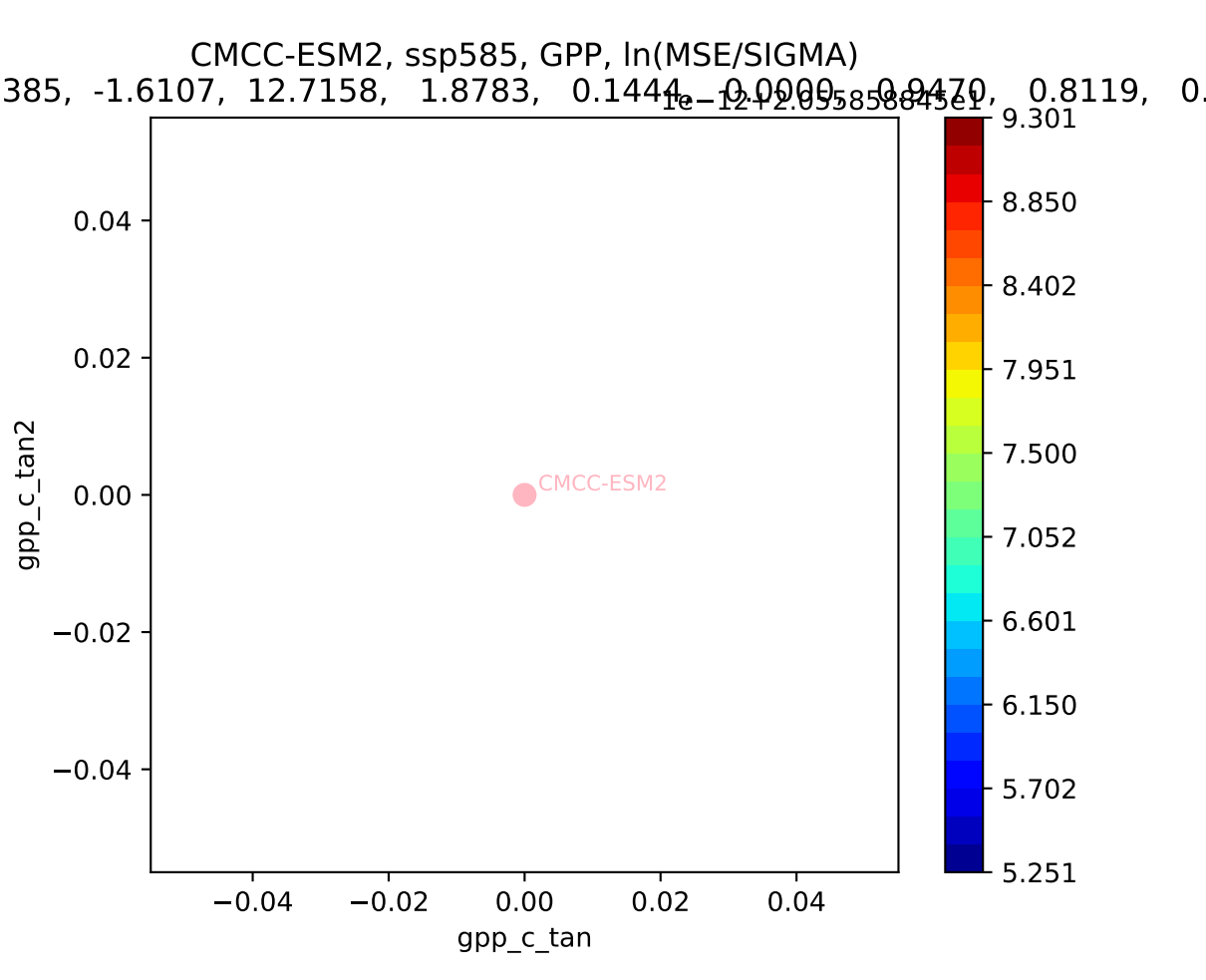

CMCC-ESM2, ssp585, GPP
ESM
Fit
GPP
140
120
100
400
600
800
1000
c_atm

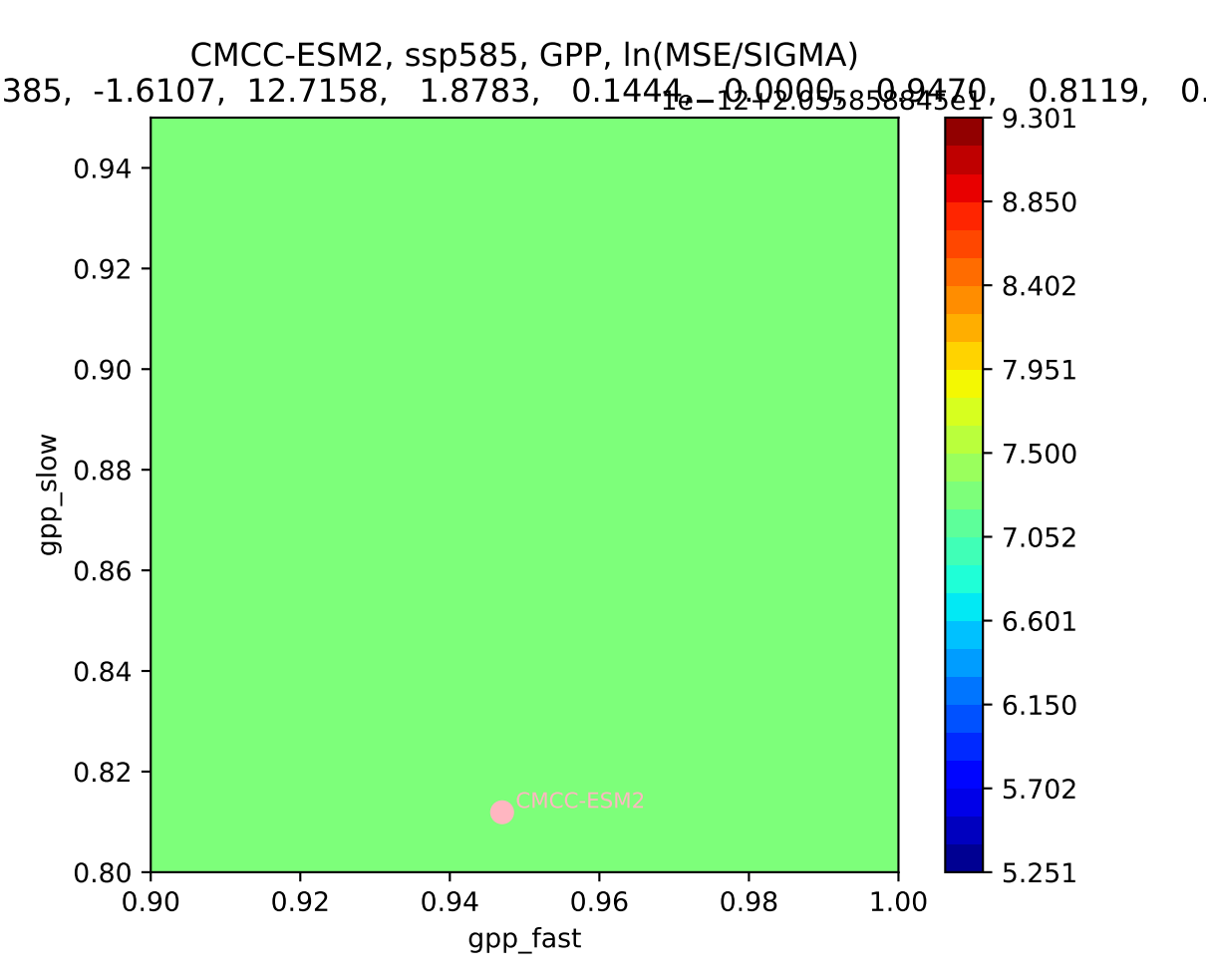

CMCC-ESM2, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
7.5
5.0
2.5
0.0
−2.5
−5.0
400
600
800
1000
c_atm

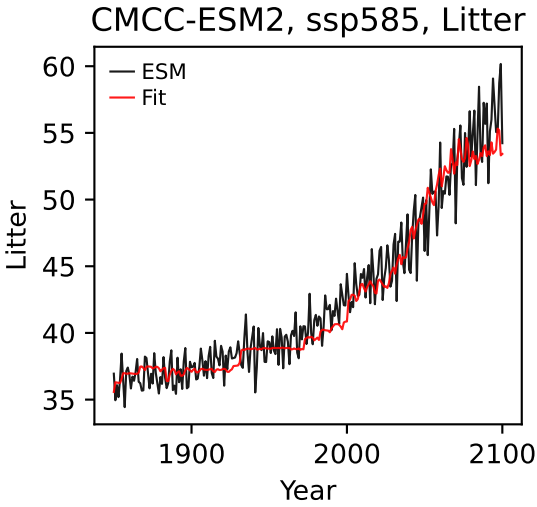

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
gpp_t_e
gpp_t_l
CMCC-ESM2
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
23.10
22.65
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05

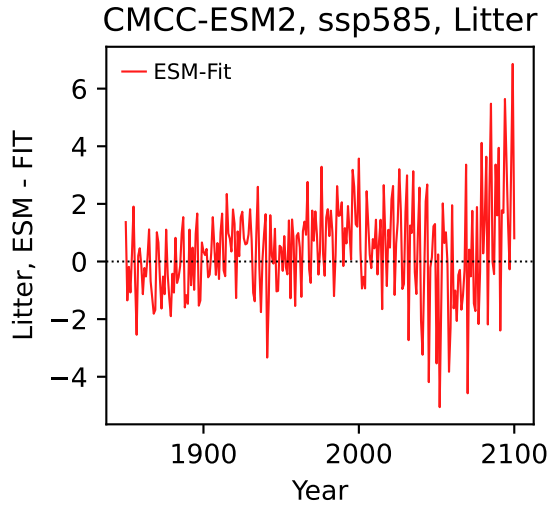

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
gpp_c_half
gpp_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.08
21.84
21.60
21.36
21.12
20.88
20.64
20.40
20.16
19.92

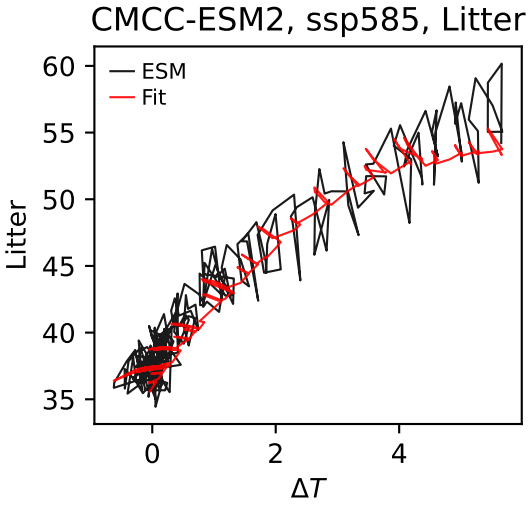

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
gpp_hyst
gpp_c_e
CMCC-ESM2
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.35
21.75
21.15
20.55
19.95
19.35
18.75
18.15

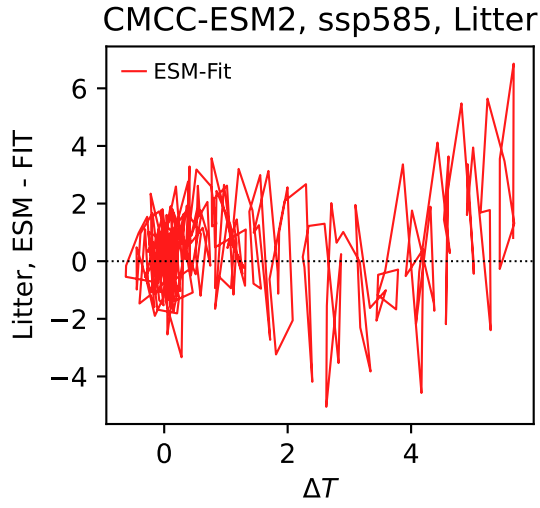

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
1e−12+2.055858845e1
CMCC-ESM2
gpp_c_tan
gpp_c_tan2
0.04
0.02
0.00
−0.02
−0.04
9.301
8.850
8.402
7.951
7.500
7.052
6.601
6.150
5.702
5.251

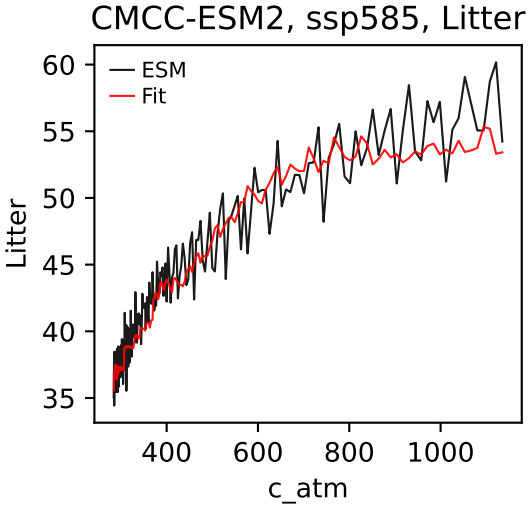

CMCC-ESM2, ssp585, GPP, ln(MSE/SIGMA)
385, -1.6107, 12.7158, 1.8783, 0.1444, 0.0000, 0.9470, 0.8119, 0.
1e−12+2.055858845e1
9.301
8.850
8.402
7.951
7.500
7.052
6.601
6.150
5.702
5.251
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
gpp_slow
CMCC-ESM2
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast

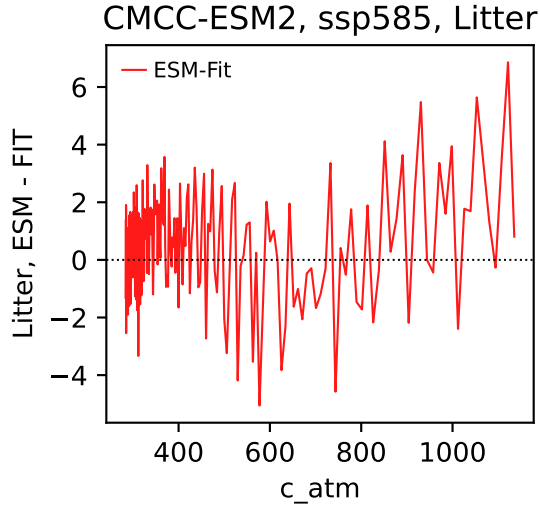

CMCC-ESM2, ssp585, Litter
ESM
Fit
Litter
Year

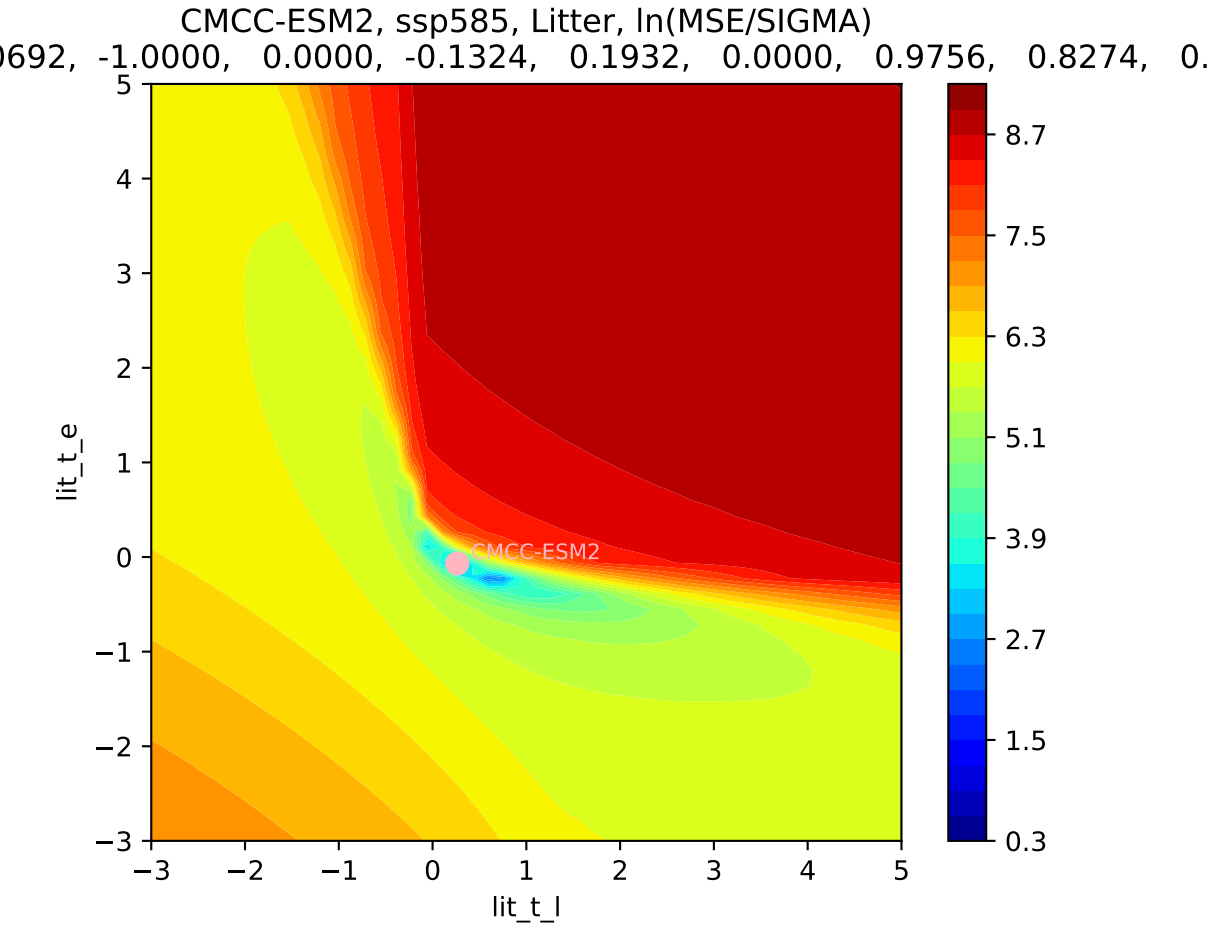

CMCC-ESM2, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
Year

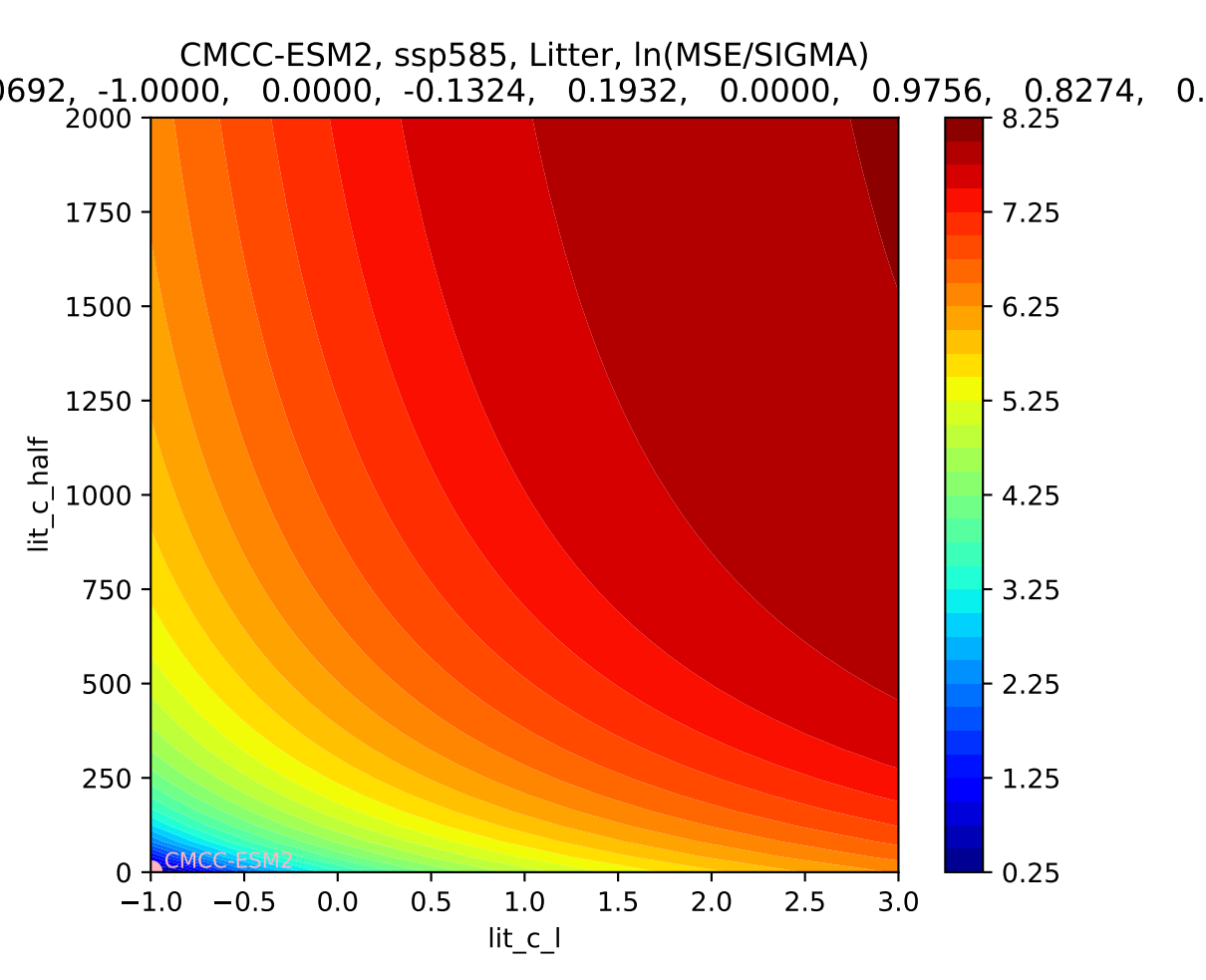

CMCC-ESM2, ssp585, Litter
ESM
Fit
Litter
ΔT

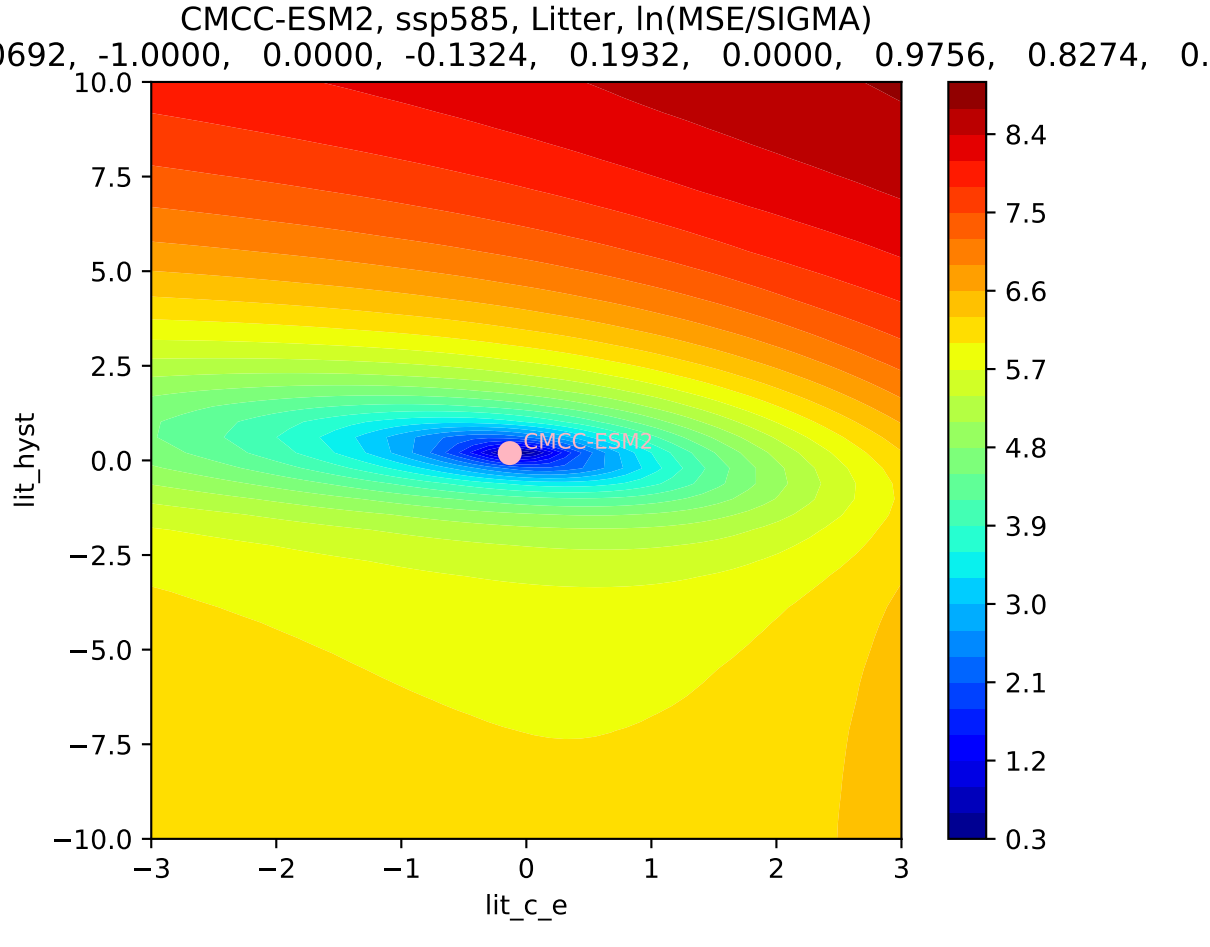

CMCC-ESM2, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

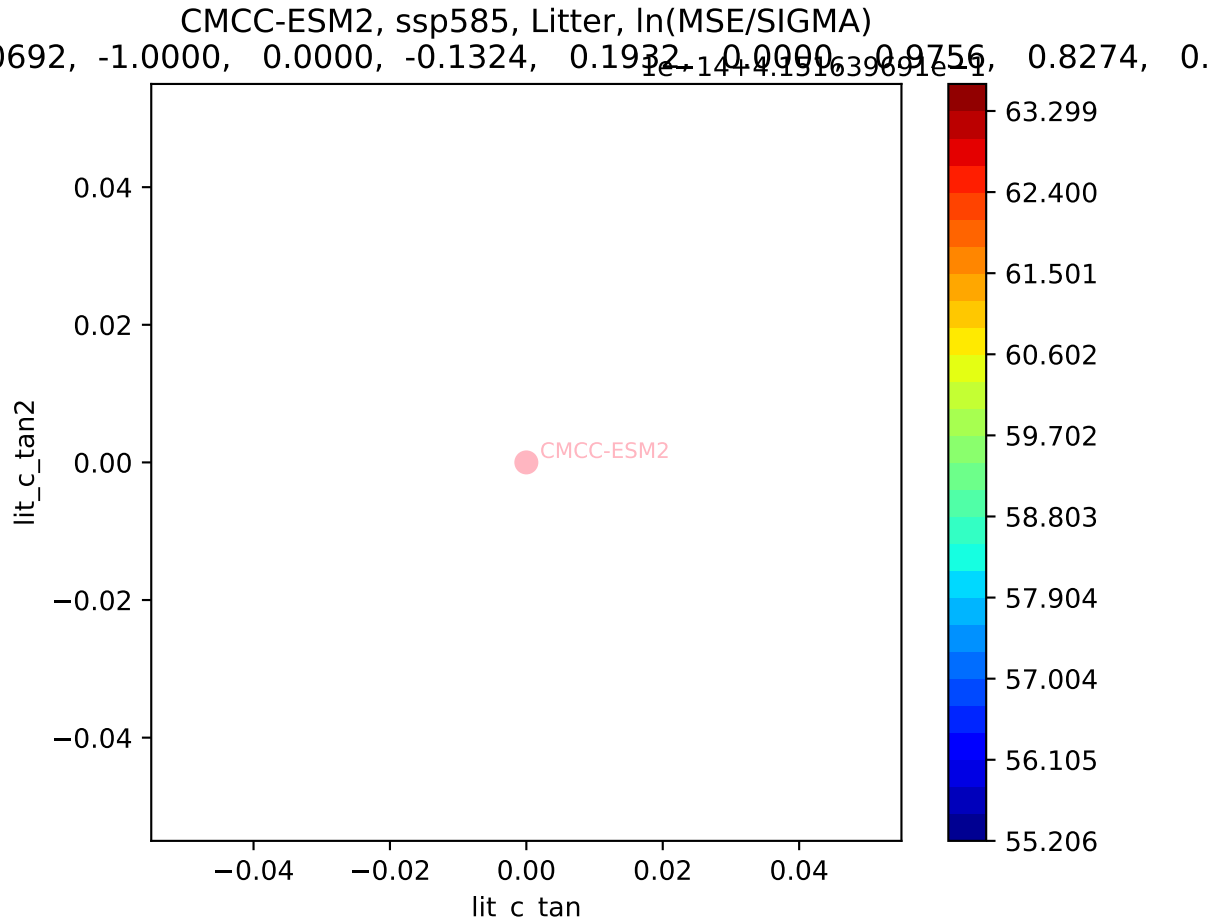

CMCC-ESM2, ssp585, Litter
ESM
Fit
Litter
c_atm

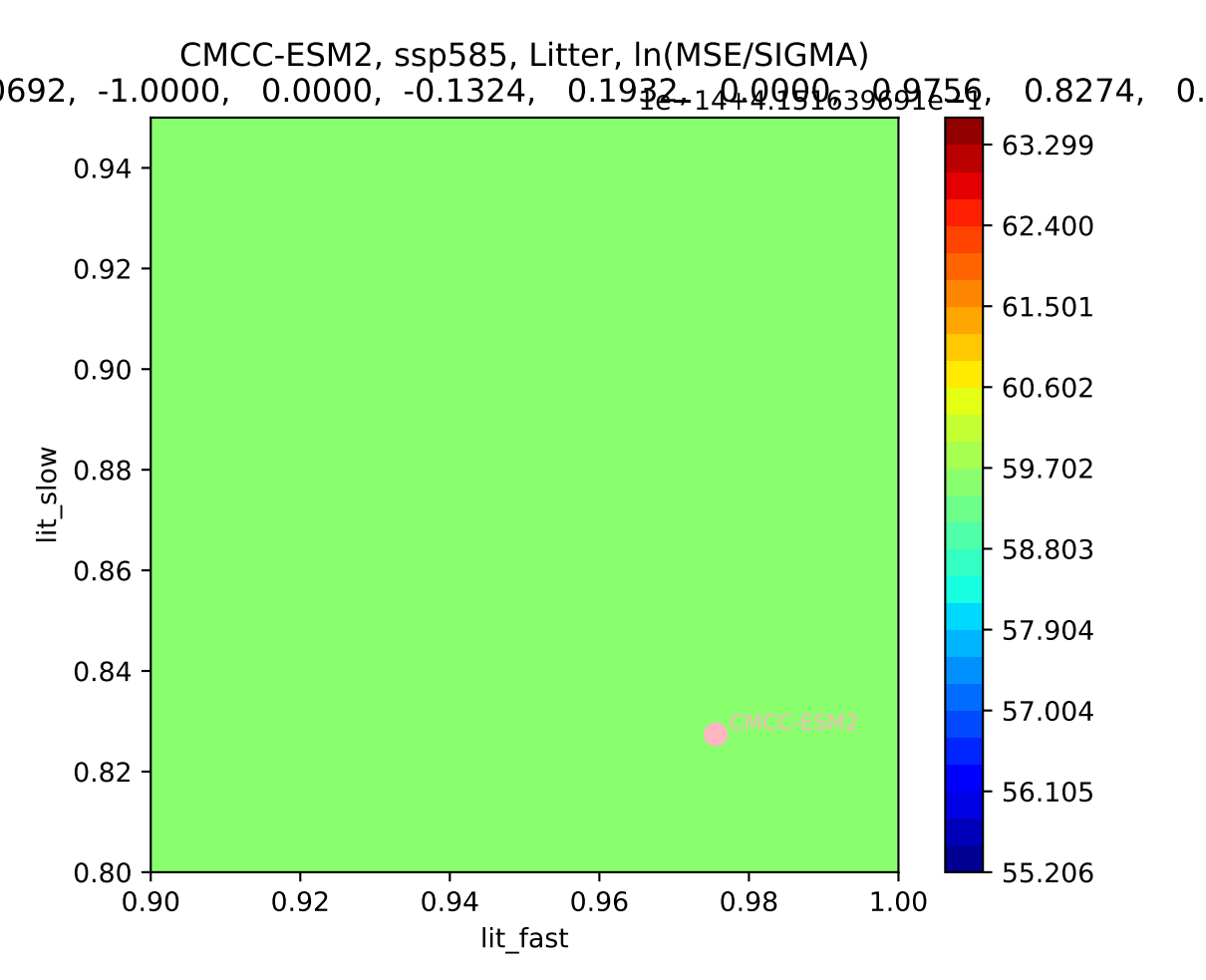

CMCC-ESM2, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

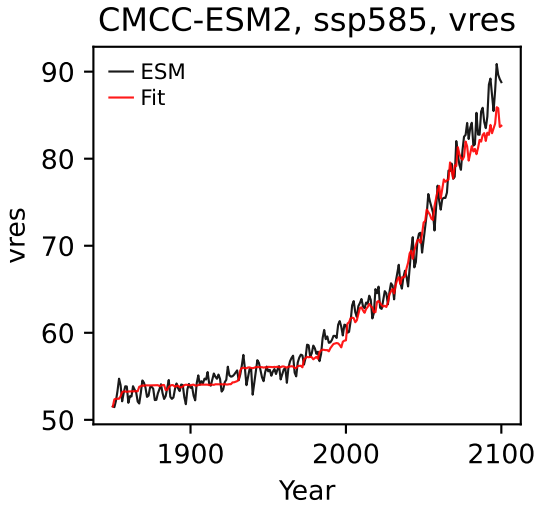

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
CMCC-ESM2
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

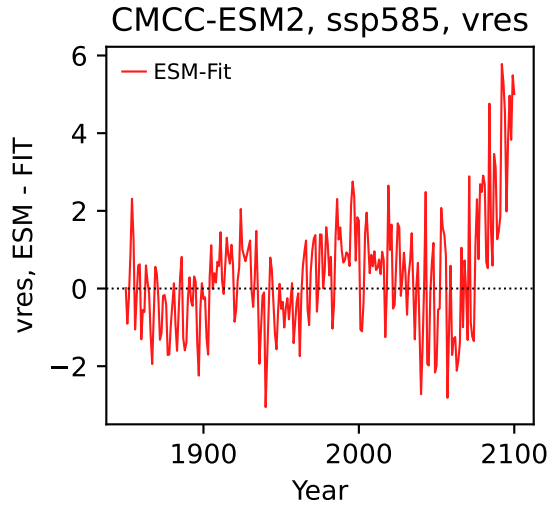

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
lit_c_half
lit_c_l
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.25
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25
CMCC-ESM2

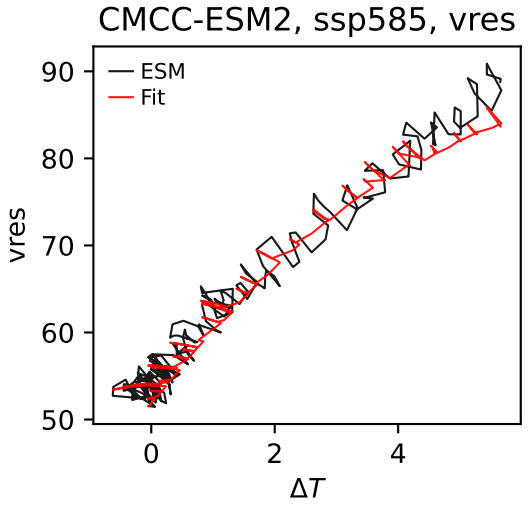

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
CMCC-ESM2
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2
0.3

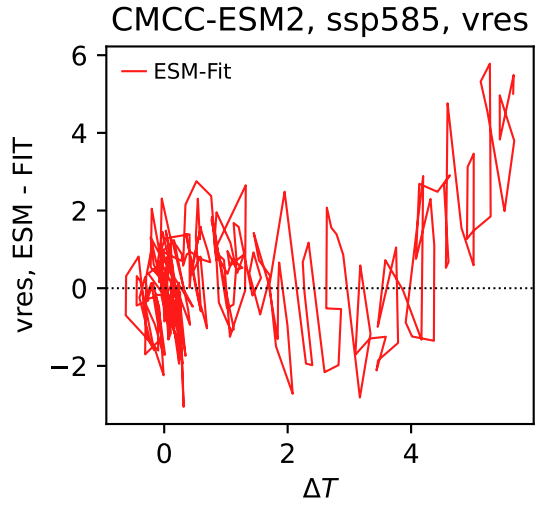

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
1e-14 4.151639691e-1
CMCC-ESM2
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
63.299
62.400
61.501
60.602
59.702
58.803
57.904
57.004
56.105
55.206

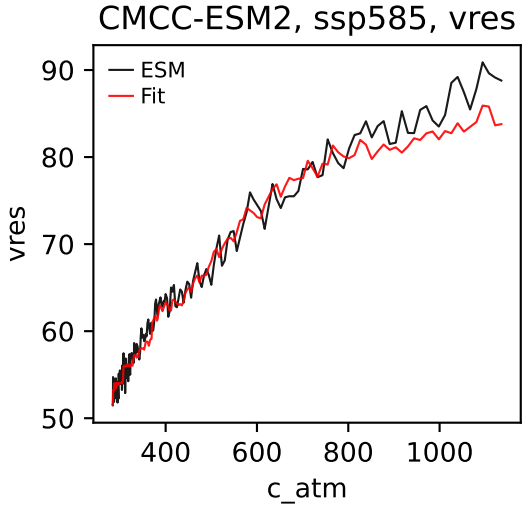

CMCC-ESM2, ssp585, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9756, 0.8274, 0.
1e-14+4.151639691e-1
63.299
62.400
61.501
60.602
59.702
58.803
57.904
57.004
56.105
55.206
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
lit_slow
CMCC-ESM2
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast

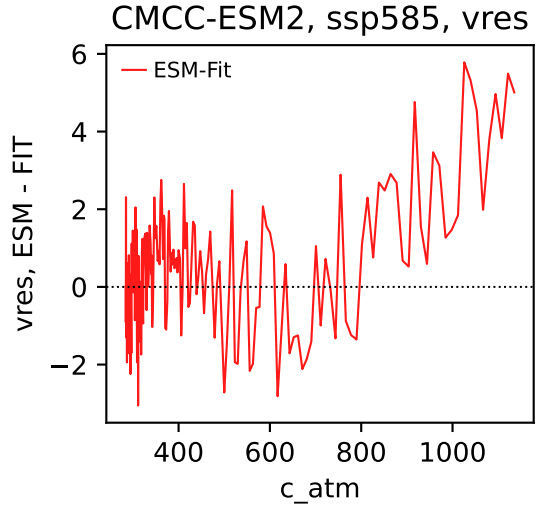

CMCC-ESM2, ssp585, vres
ESM
Fit
vres
Year

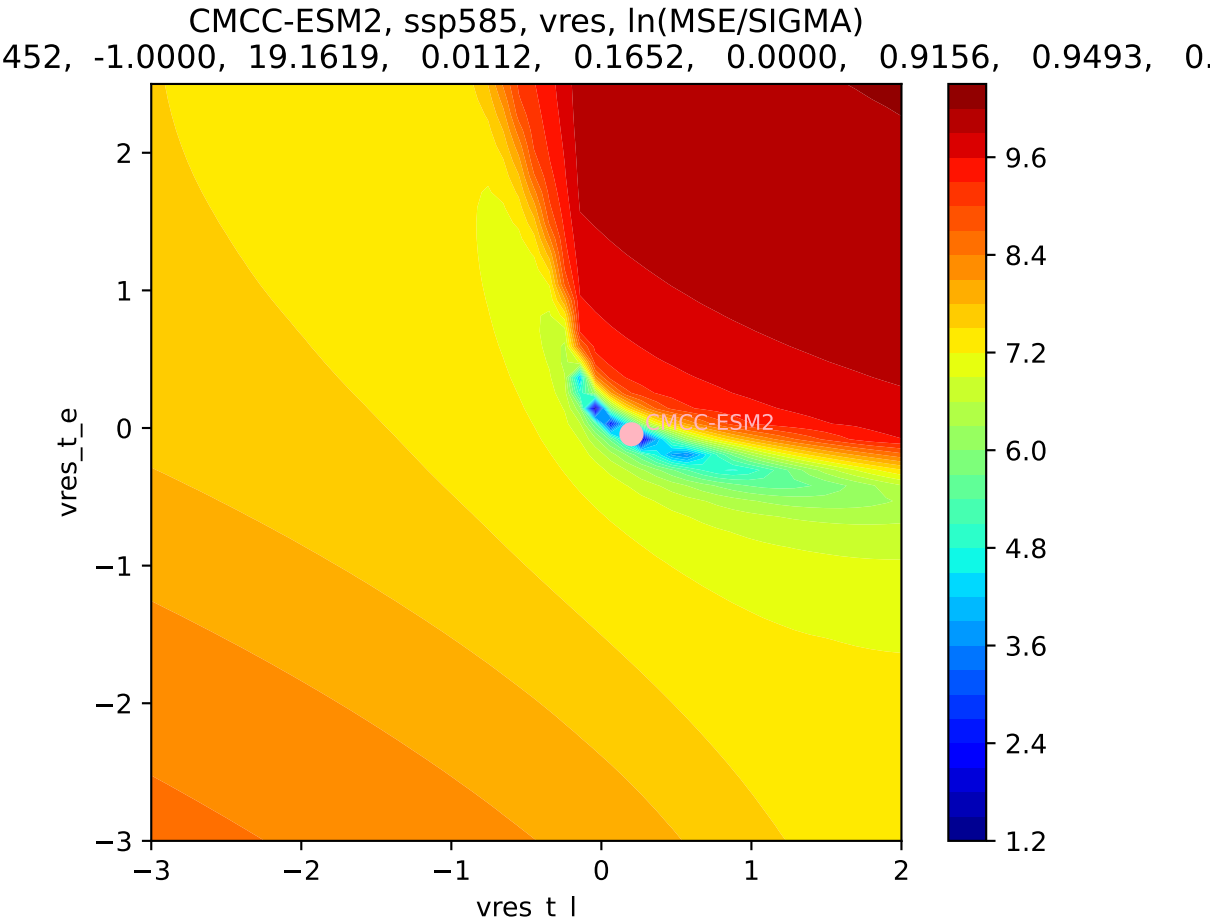

CMCC-ESM2, ssp585, vres
ESM-Fit
vres, ESM - FIT
Year

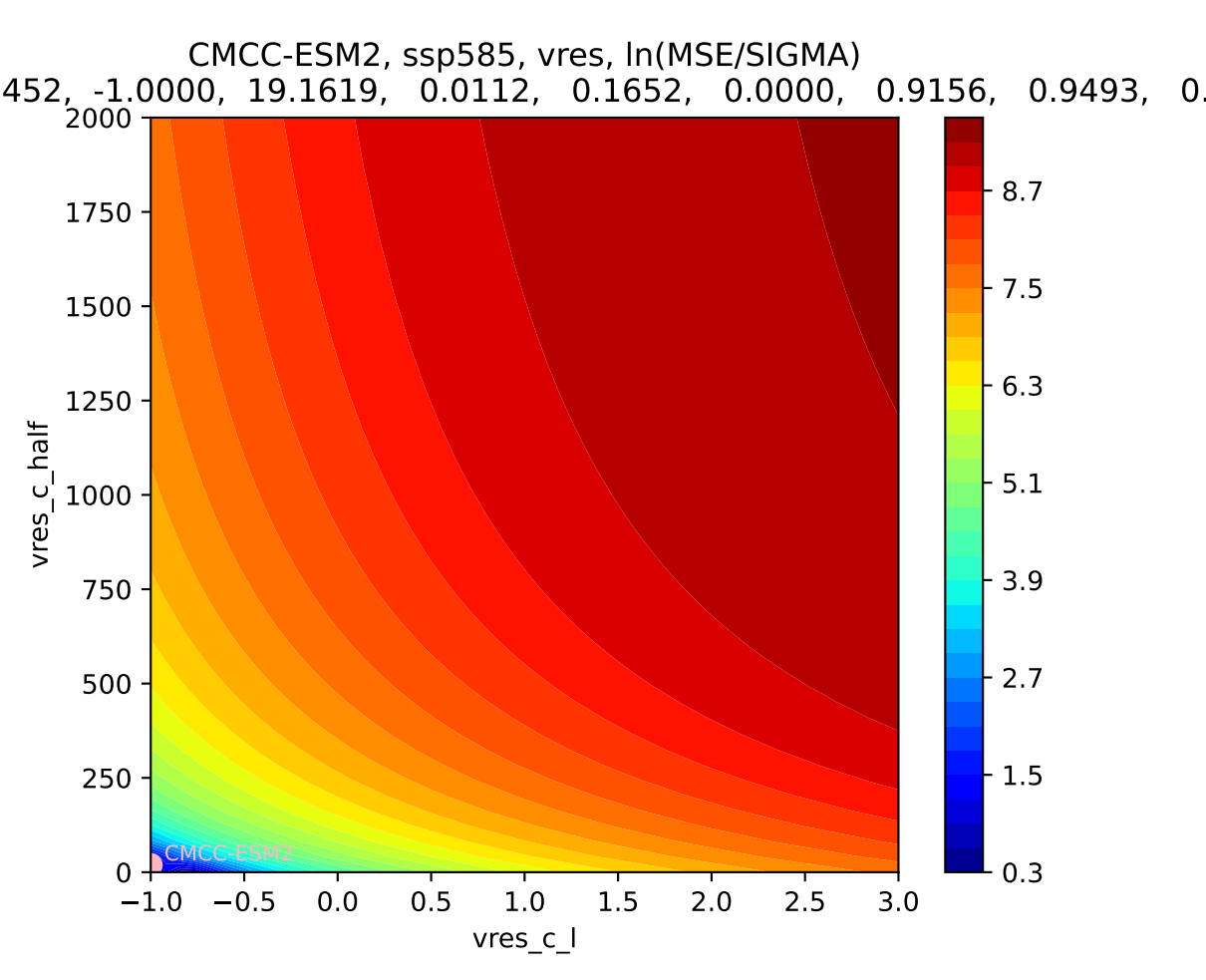

CMCC-ESM2, ssp585, vres
ESM
Fit
vres
ΔT

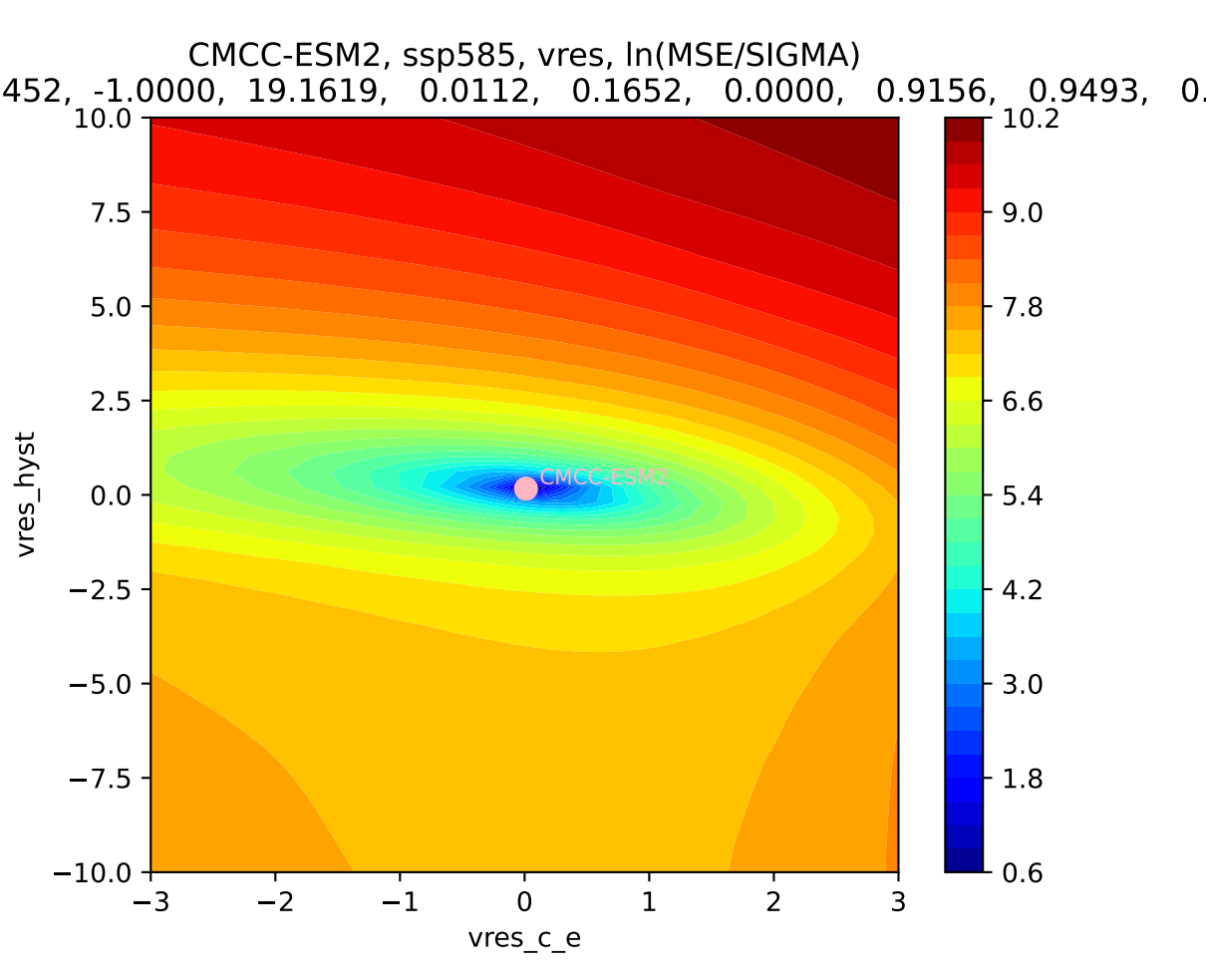

CMCC-ESM2, ssp585, vres
ESM-Fit
vres, ESM - FIT
ΔT

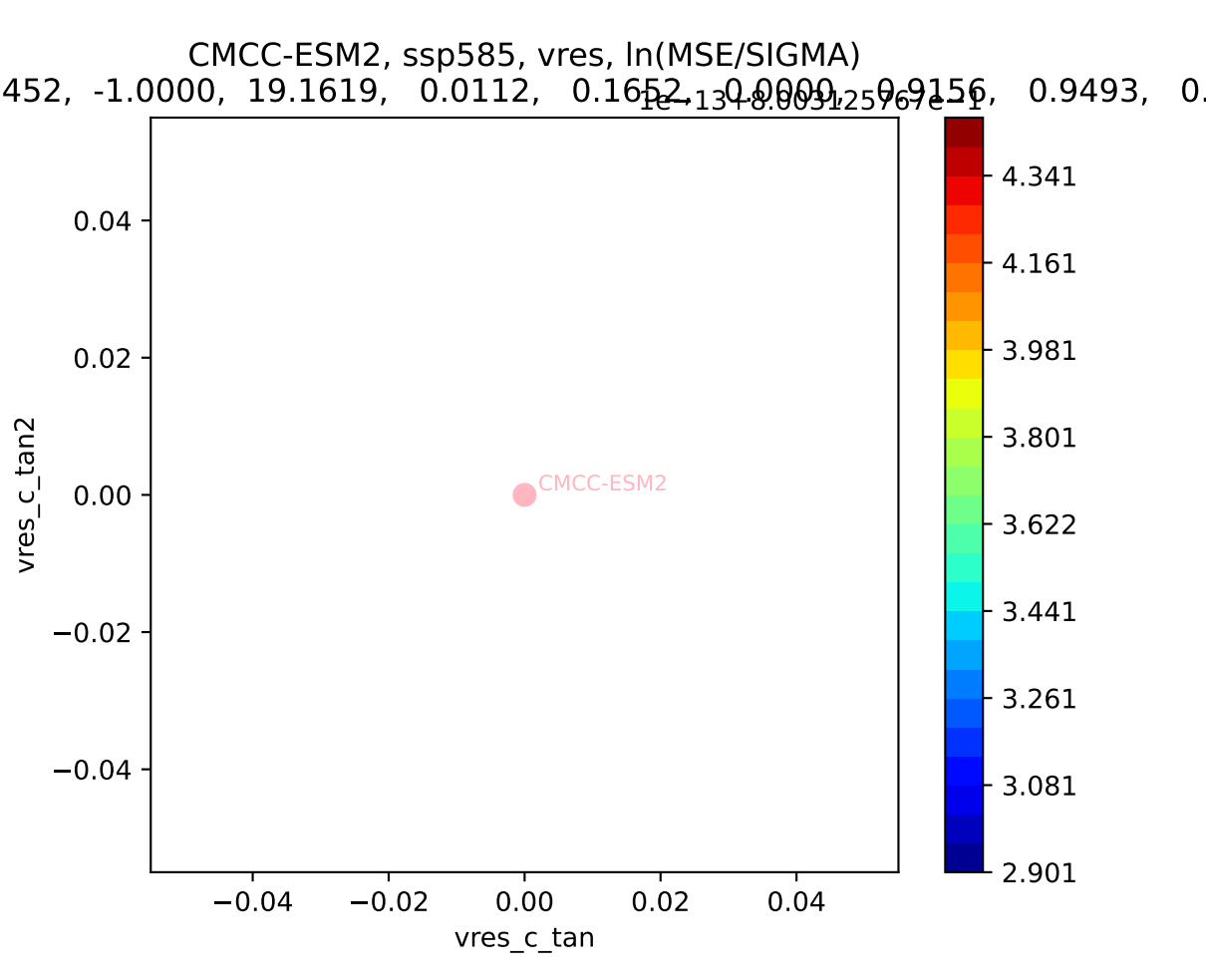

CMCC-ESM2, ssp585, vres
ESM
Fit
vres
c_atm

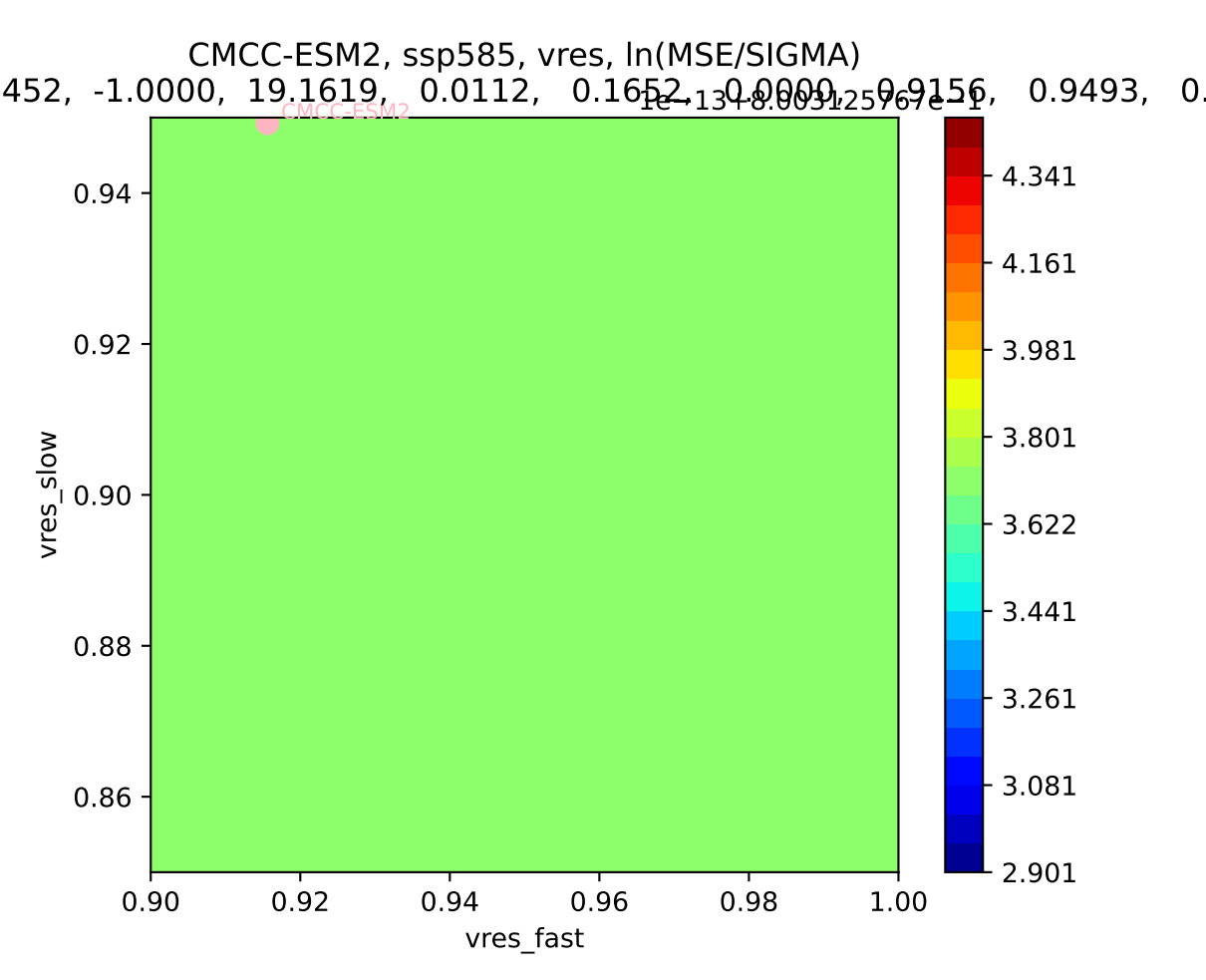

CMCC-ESM2, ssp585, vres
ESM-Fit
vres, ESM - FIT
c_atm

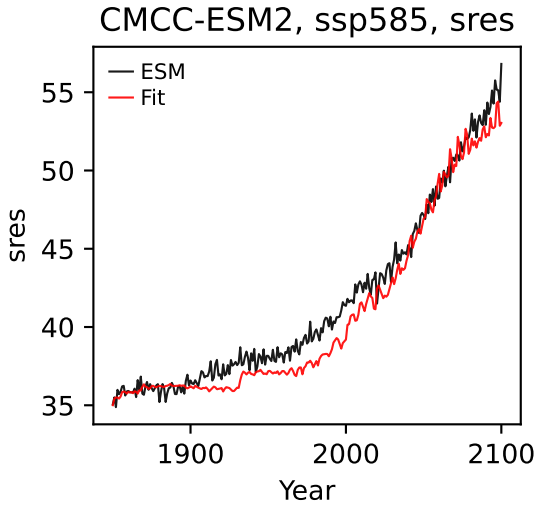

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
CMCC-ESM2
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

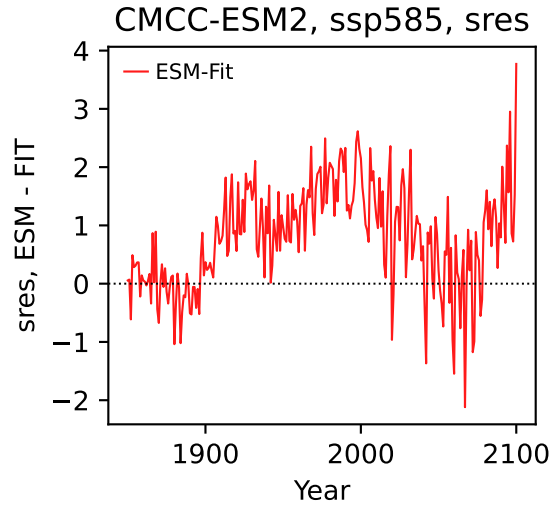

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
vres_c_half
vres_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

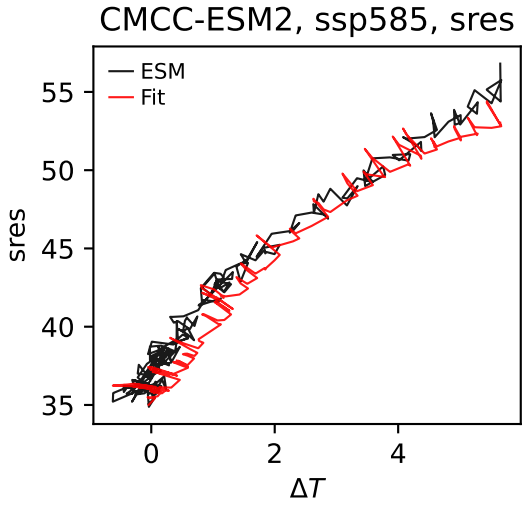

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
CMCC-ESM2
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6

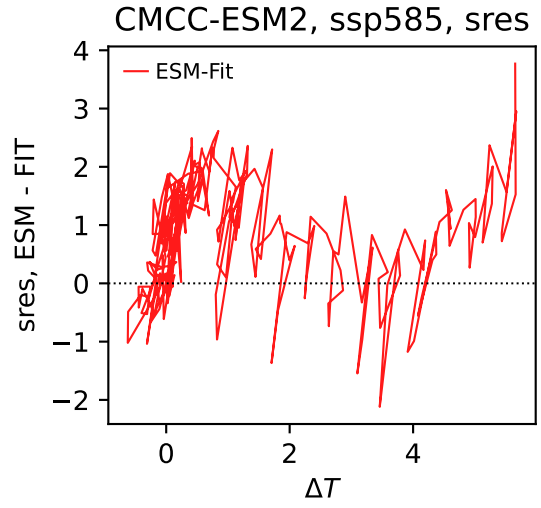

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
1e−13+8.00312576?e−1
CMCC-ESM2
vres_c_tan2
vres_c_tan
0.04
0.02
0.00
−0.02
−0.04
4.341
4.161
3.981
3.801
3.622
3.441
3.261
3.081
2.901

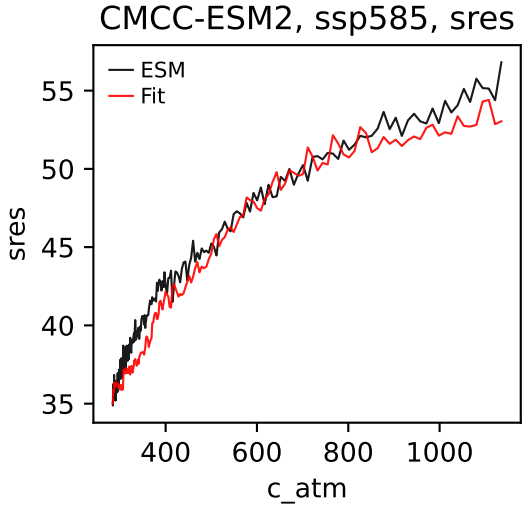

CMCC-ESM2, ssp585, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1619, 0.0112, 0.1652, 0.0000, 0.9156, 0.9493, 0.
1e−13+8.0031257e−1
CMCC-ESM2
vres_slow
0.94
0.92
0.90
0.88
0.86
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast
4.341
4.161
3.981
3.801
3.622
3.441
3.261
3.081
2.901

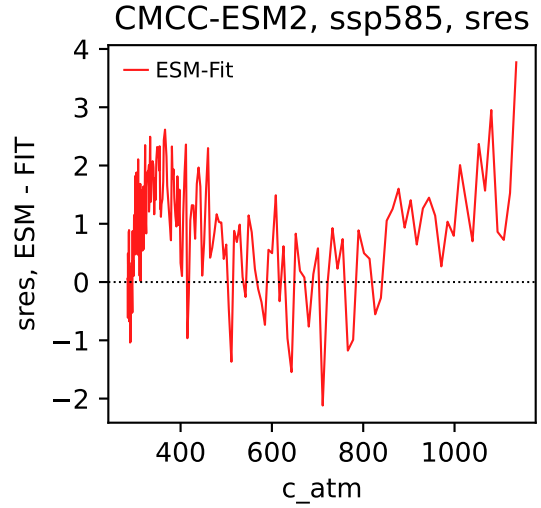

CMCC-ESM2, ssp585, sres
ESM
Fit
sres
Year

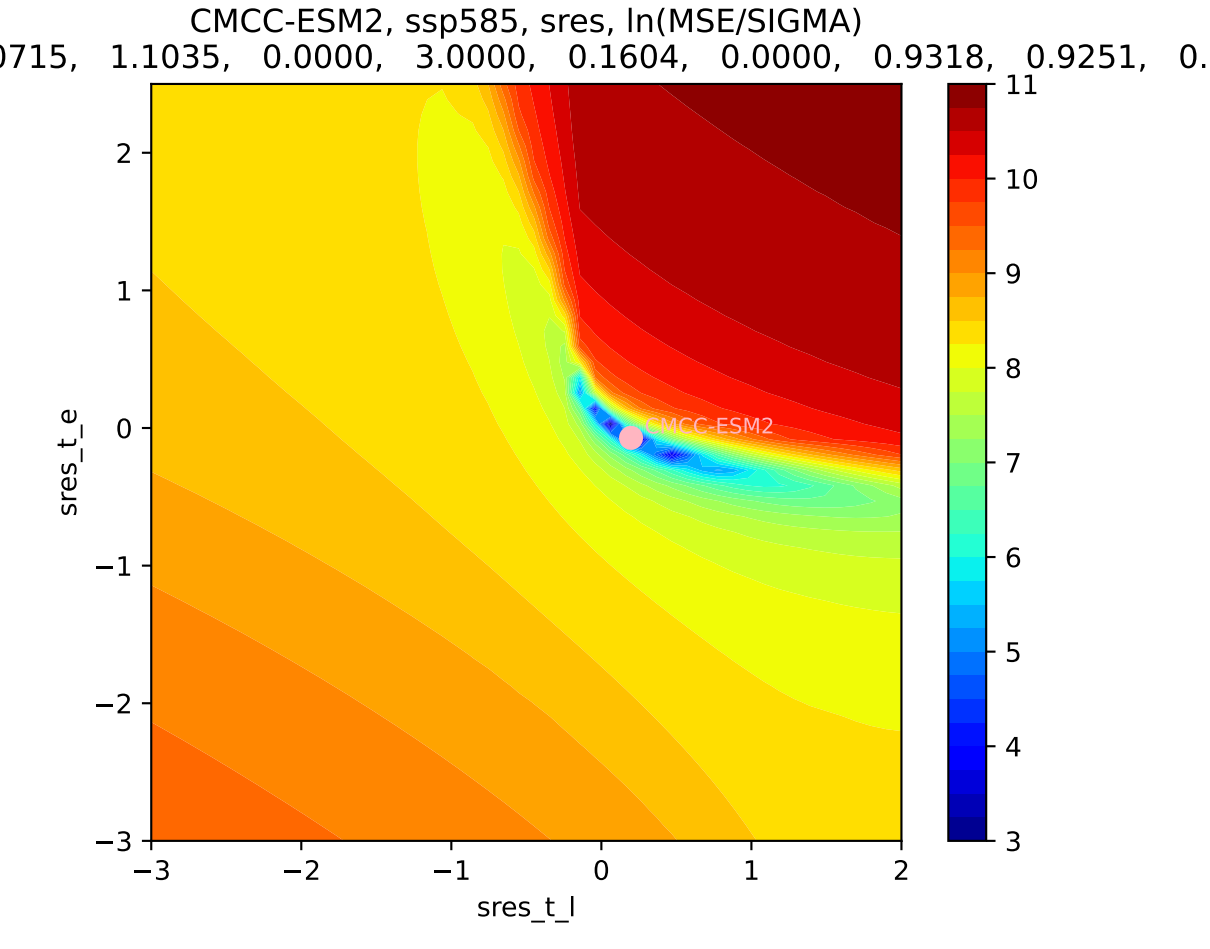

CMCC-ESM2, ssp585, sres
ESM-Fit
sres, ESM - FIT
Year

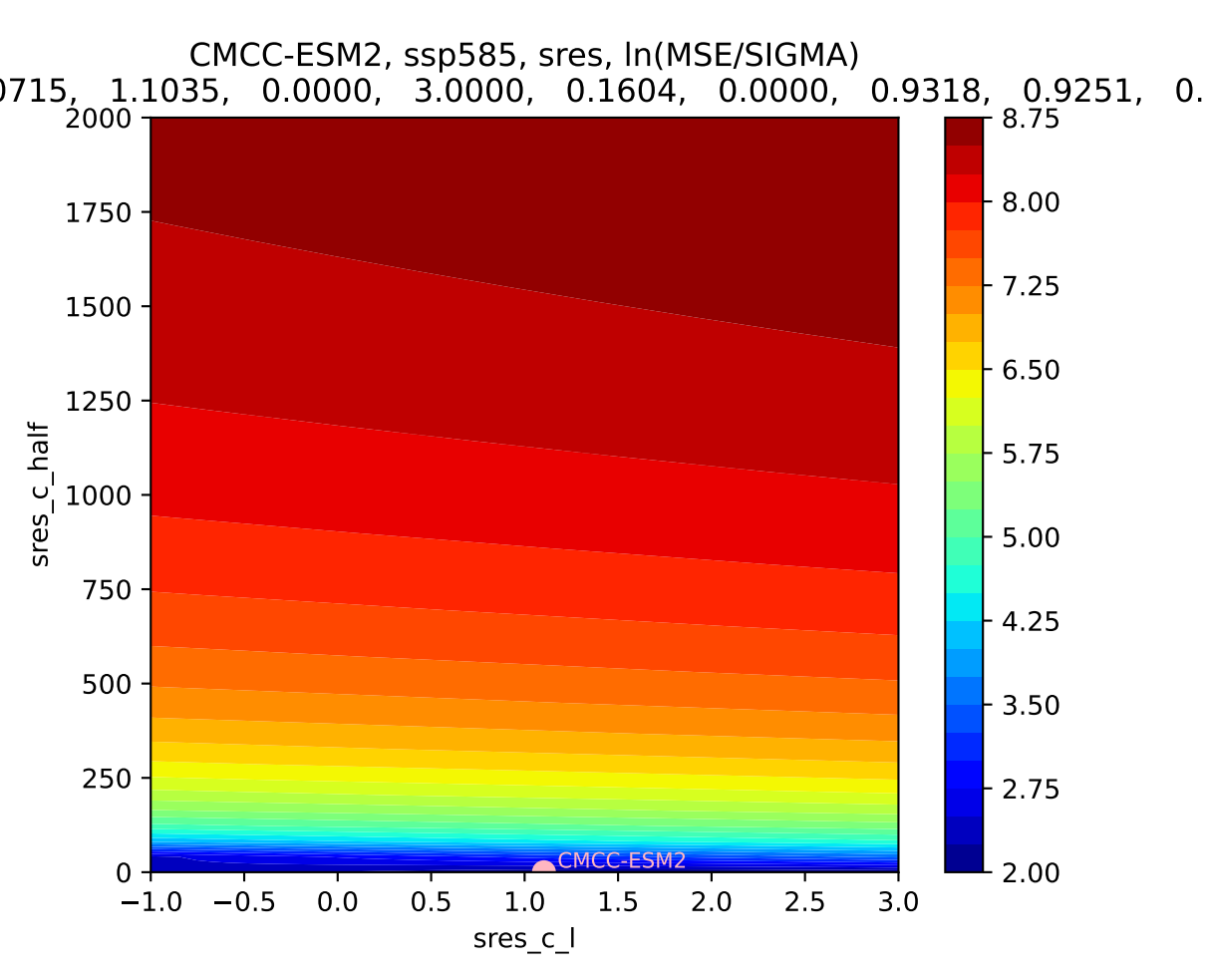

CMCC-ESM2, ssp585, sres
ESM
Fit
sres
ΔT

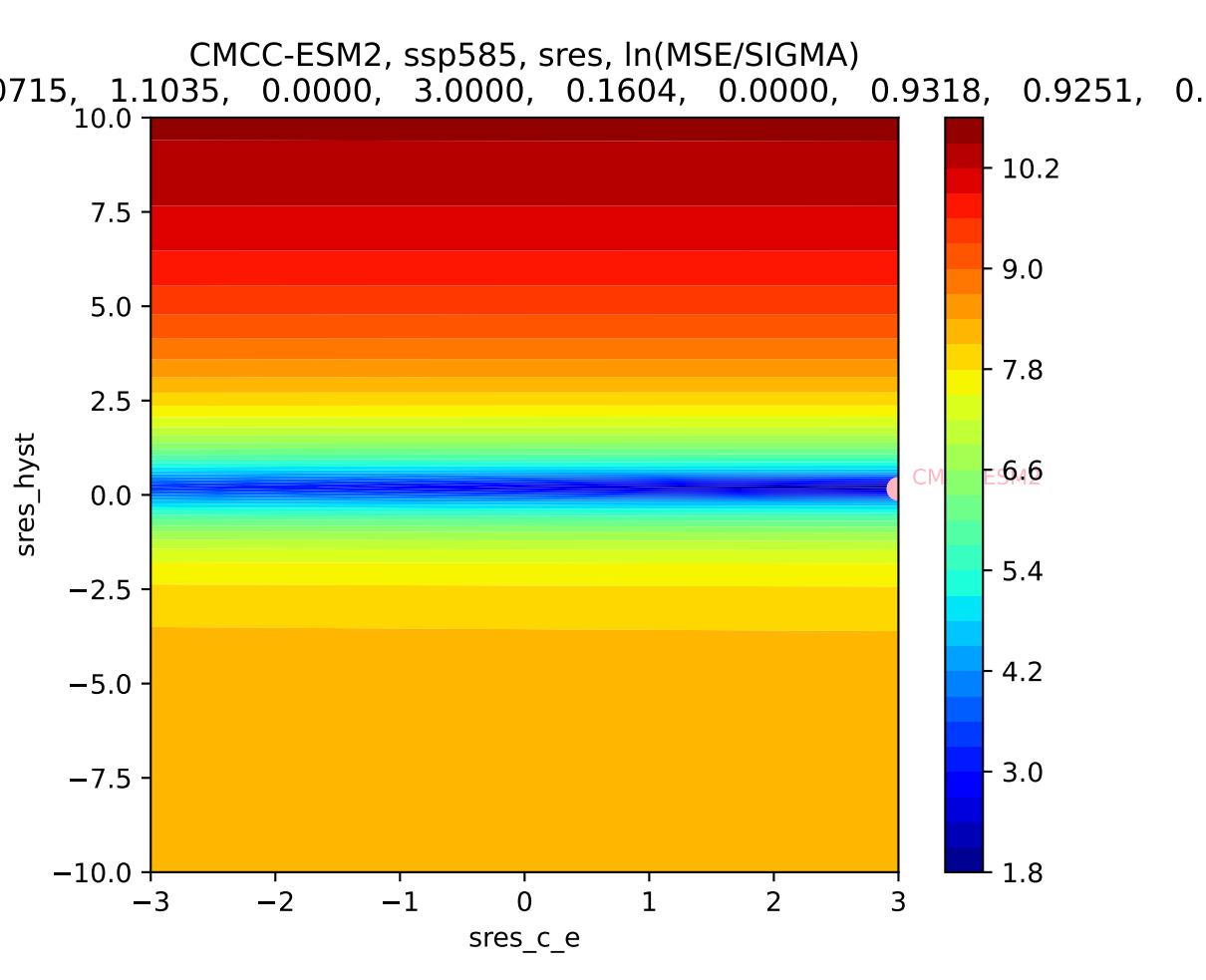

CMCC-ESM2, ssp585, sres
ESM-Fit
sres, ESM - FIT
ΔT

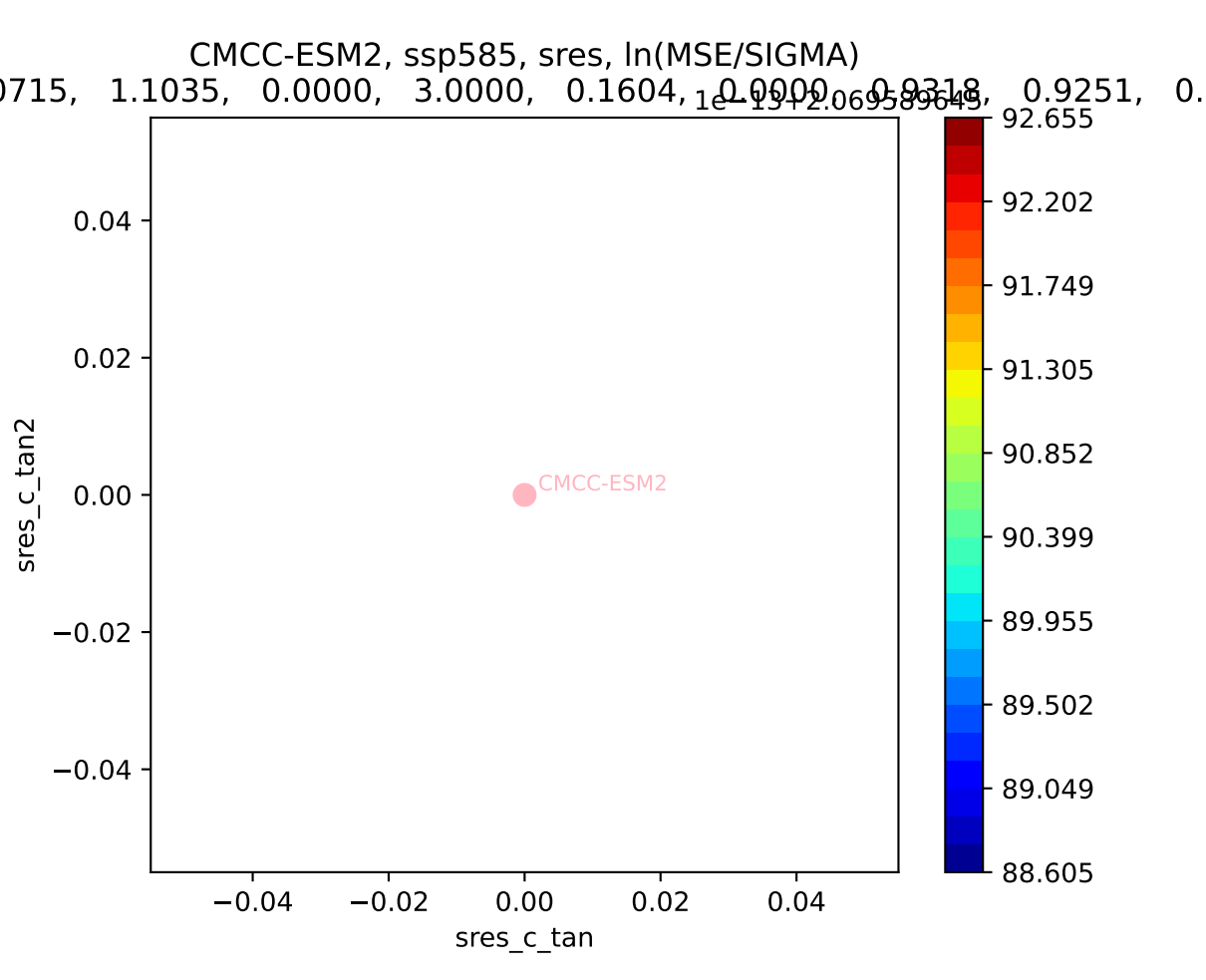

CMCC-ESM2, ssp585, sres
ESM
Fit
sres
c_atm

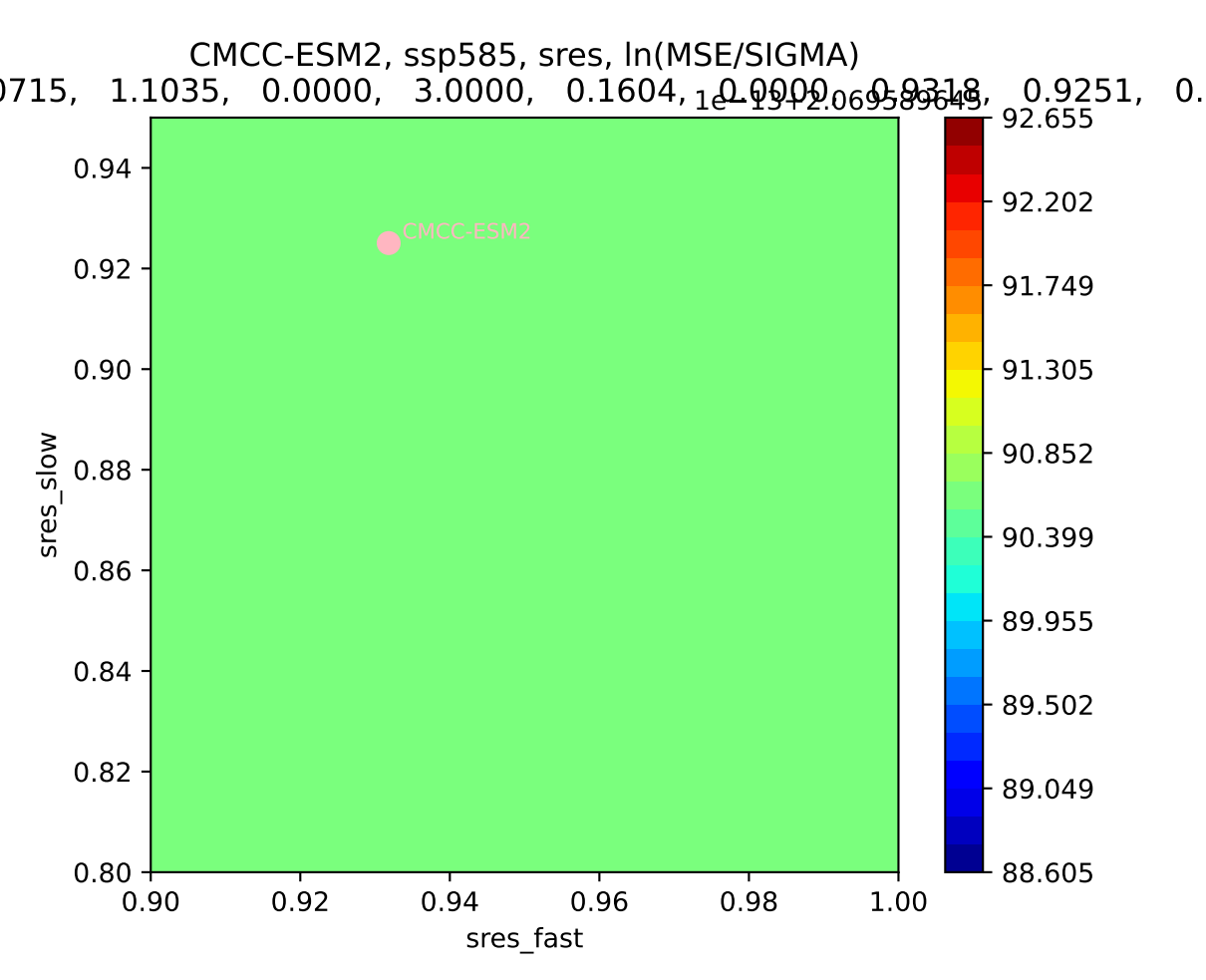

CMCC-ESM2, ssp585, sres
ESM-Fit
sres, ESM - FIT
c_atm

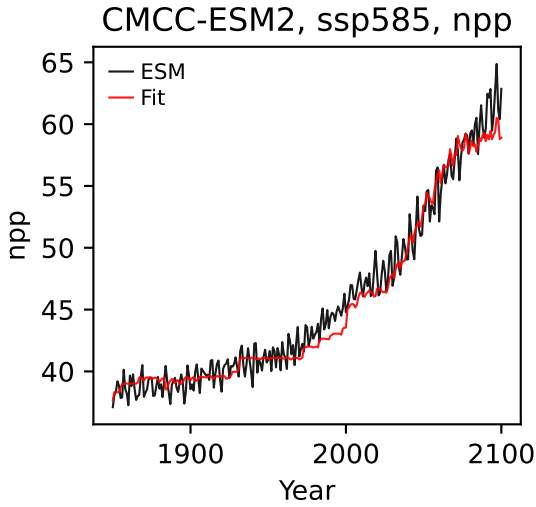

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
CMCC-ESM2
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
11
10
9
8
7
6
5
4
3

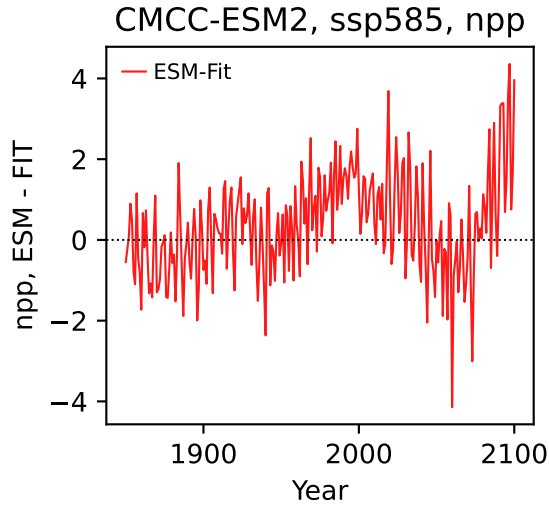

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
sres_c_half
sres_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.75
8.00
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00

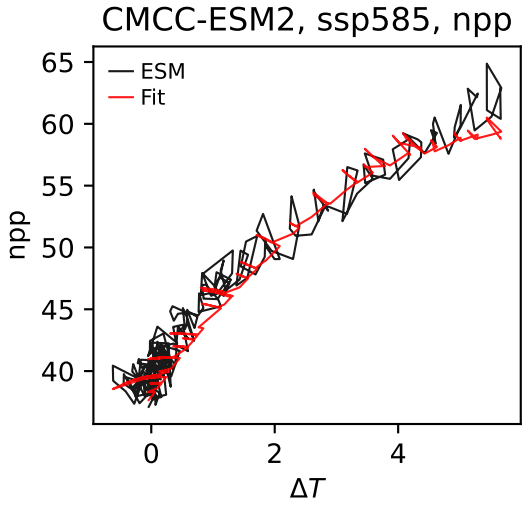

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8

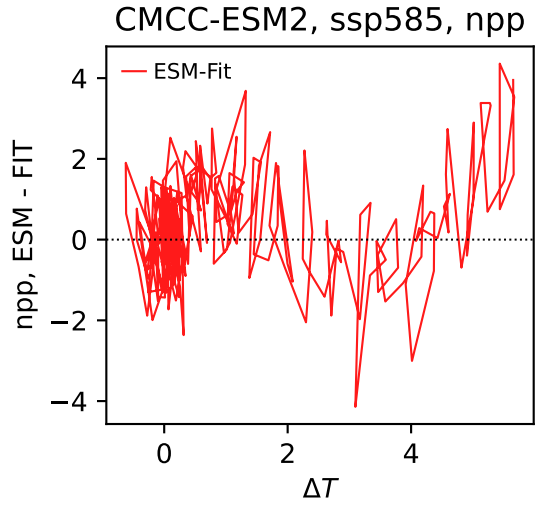

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
1e−13+2.069589645
CMCC-ESM2
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
92.655
92.202
91.749
91.305
90.852
90.399
89.955
89.502
89.049
88.605

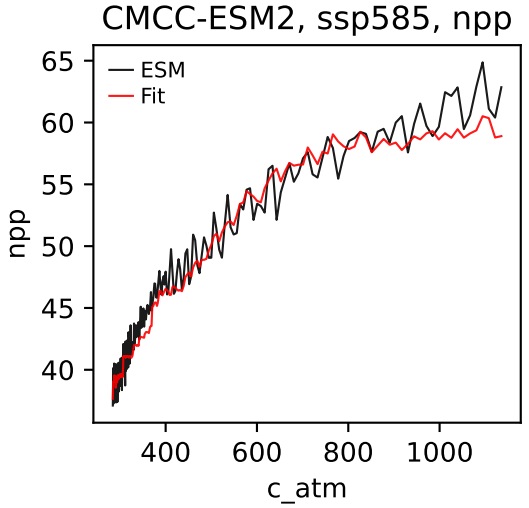

CMCC-ESM2, ssp585, sres, ln(MSE/SIGMA)
0715, 1.1035, 0.0000, 3.0000, 0.1604, 0.0000, 0.9318, 0.9251, 0.
1e−13+2.069589645
CMCC-ESM2
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
sres_slow
0.90
0.92
0.94
0.96
0.98
1.00
sres_fast
92.655
92.202
91.749
91.305
90.852
90.399
89.955
89.502
89.049
88.605

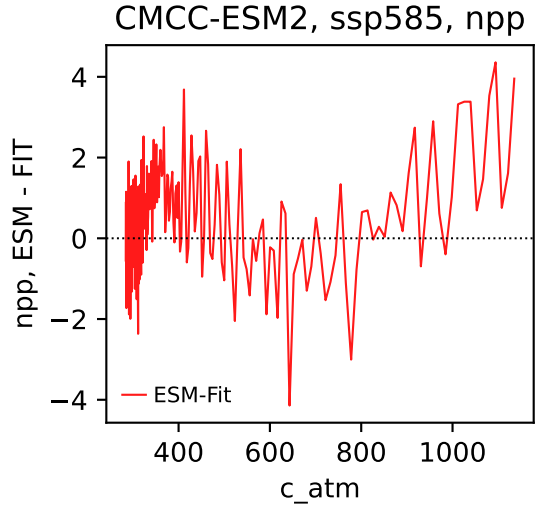

CMCC-ESM2, ssp585, npp
ESM
Fit
npp
Year

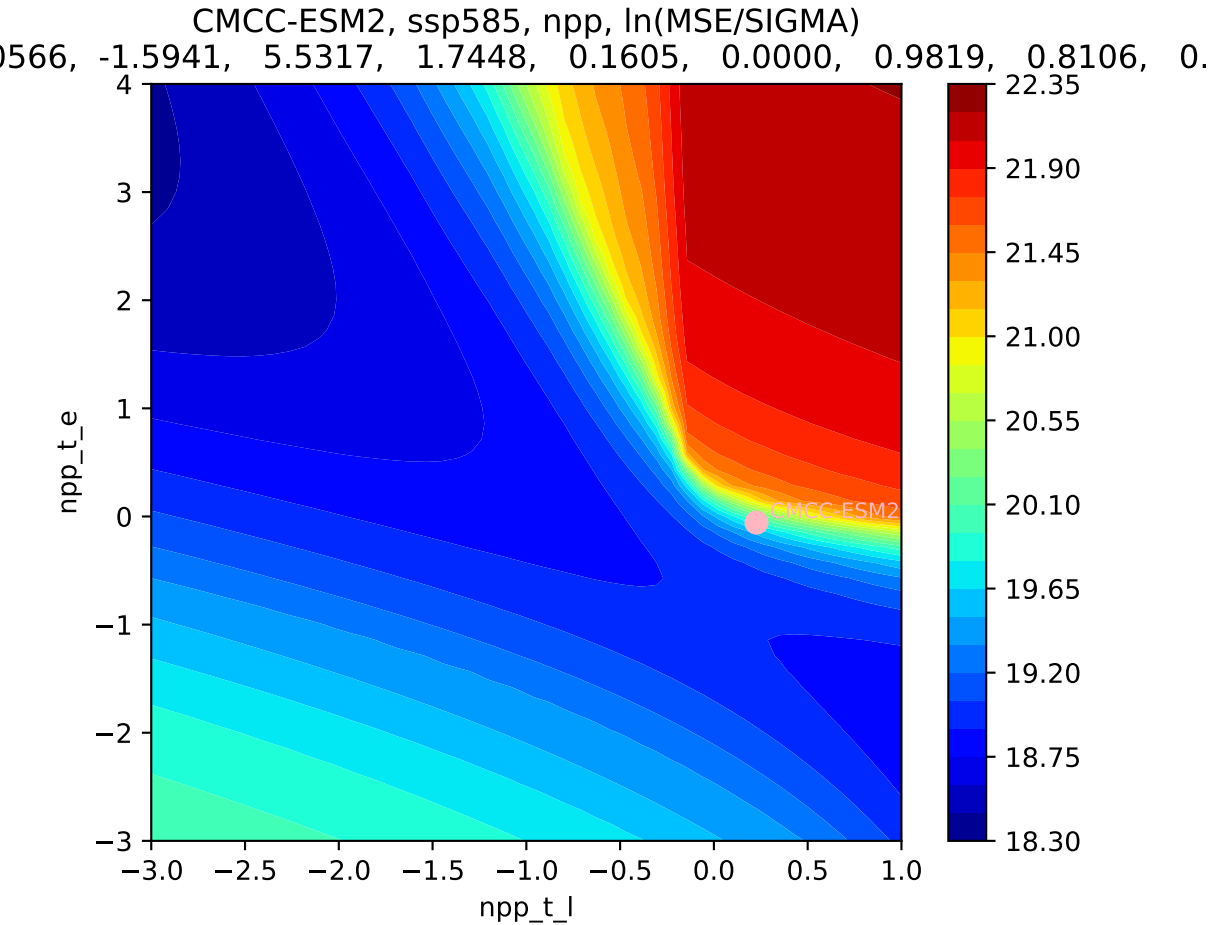

CMCC-ESM2, ssp585, npp
ESM-Fit
npp, ESM - FIT
Year

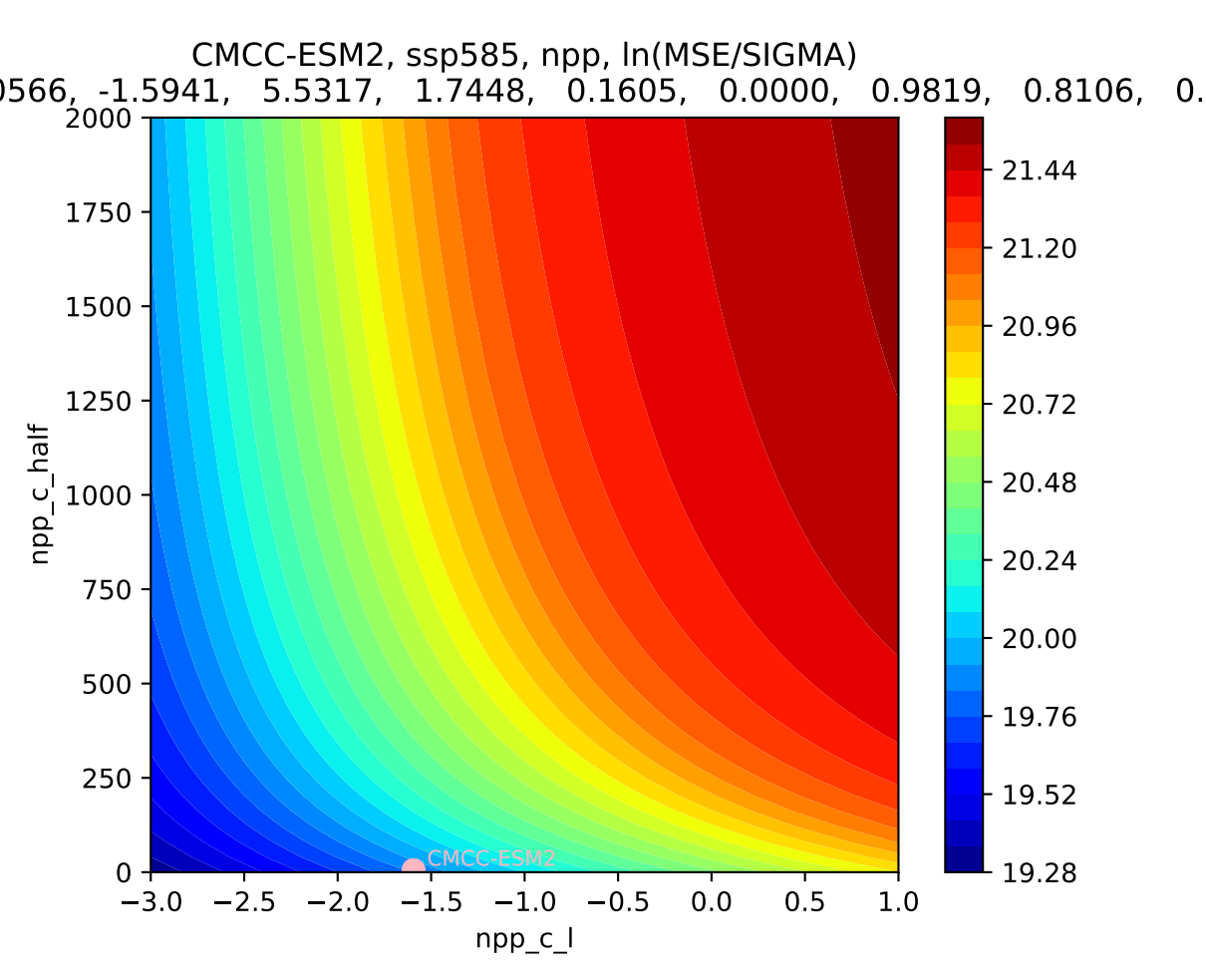

CMCC-ESM2, ssp585, npp
ESM
Fit
npp
ΔT

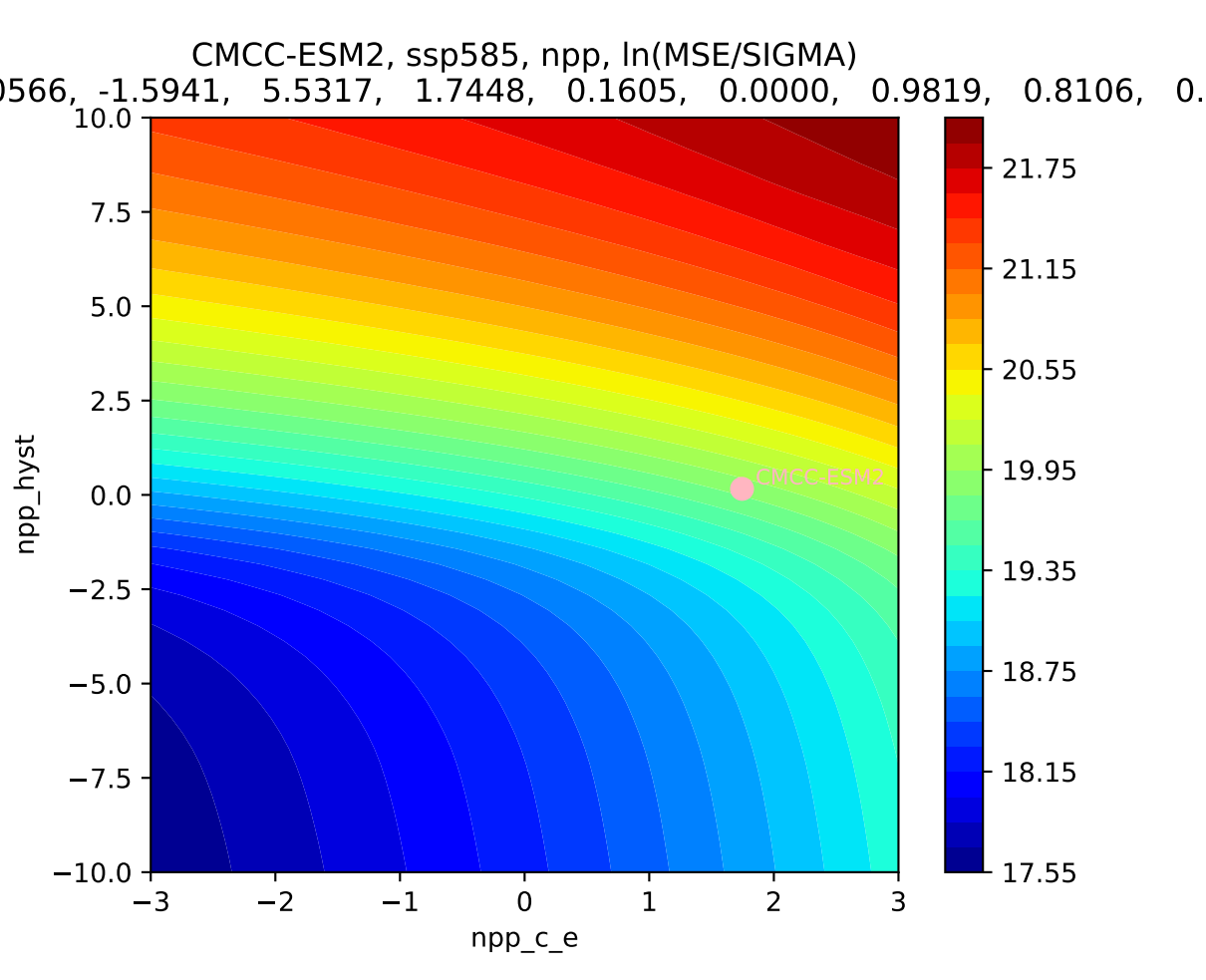

CMCC-ESM2, ssp585, npp
ESM-Fit
npp, ESM - FIT
ΔT


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)
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
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)
0566, -1.5941, 5.5317, 1.7448, 0.1605, 0.0000, 0.9819, 0.8106, 0.
npp_c_half
npp_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
21.44
21.20
20.96
20.72
20.48
20.24
20.00
19.76
19.52
19.28


CMCC-ESM2, ssp585, 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
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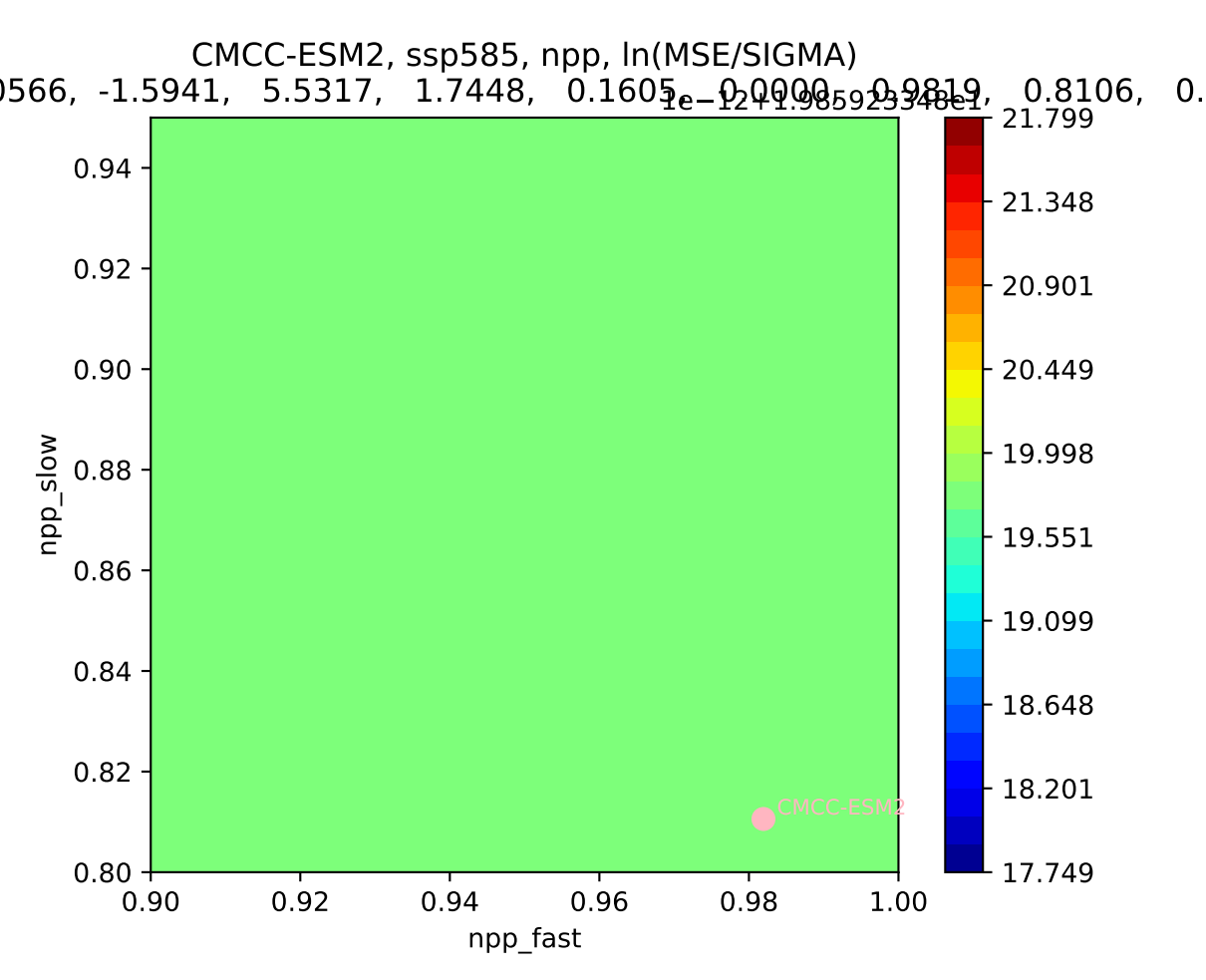
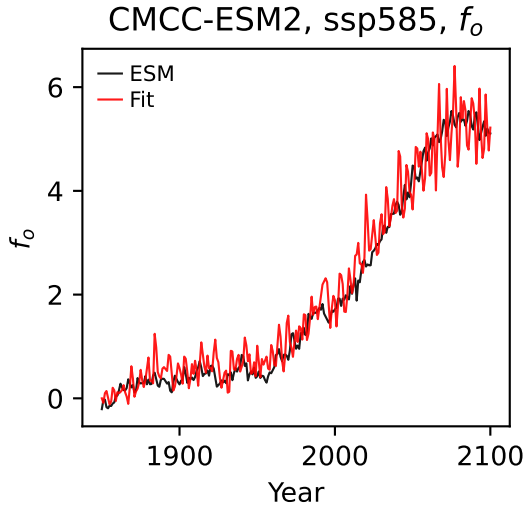
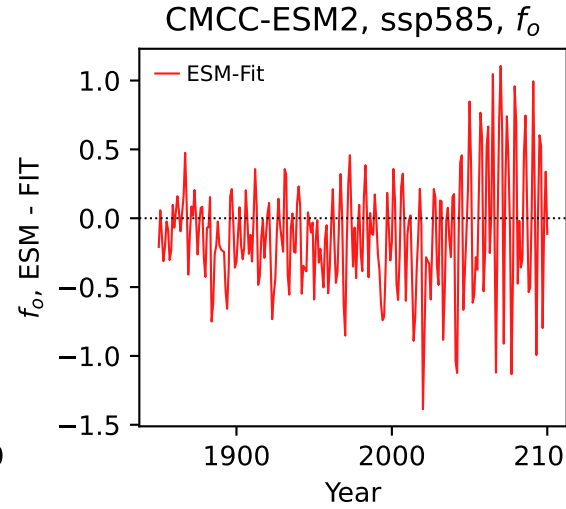
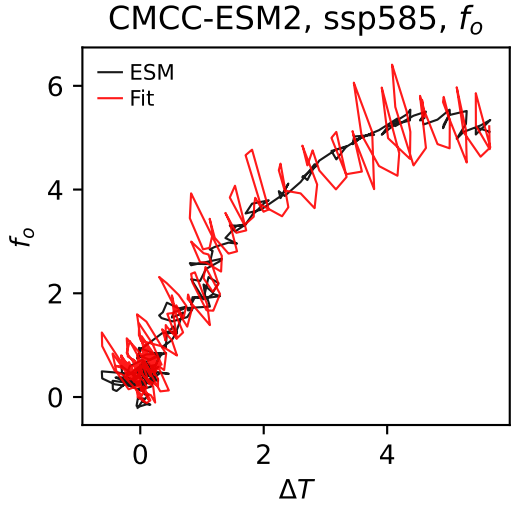
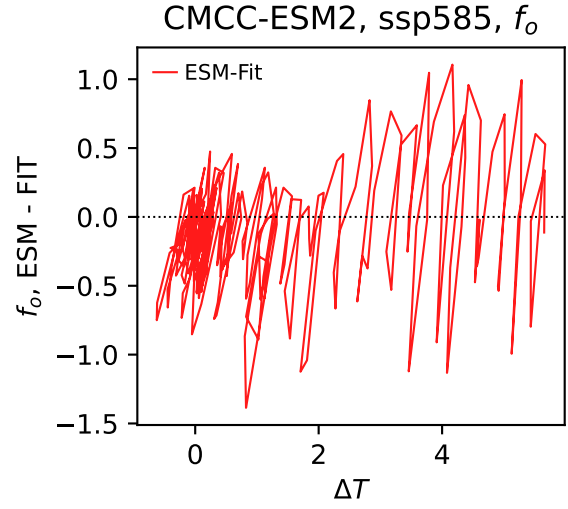
21.15
20.55
19.95
19.35
18.75
18.15
17.55

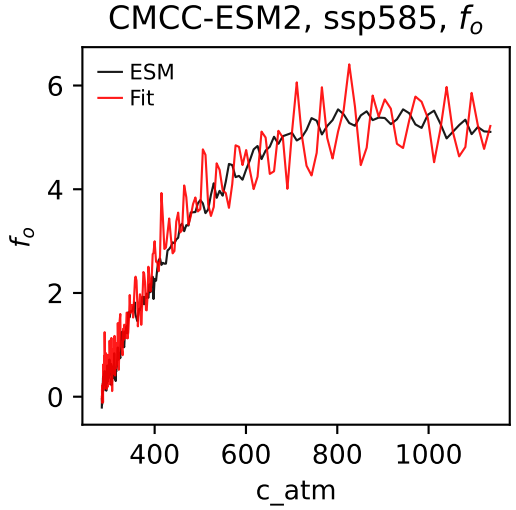

CMCC-ESM2, ssp585, npp, ln(MSE/SIGMA)
0566, -1.5941, 5.5317, 1.7448, 0.1605, 0.0000, 0.9819, 0.8106, 0.
1e−12+1.9859233486e1
21.799
21.348
20.901
20.449
19.998
19.551
19.099
18.648
18.201
17.749
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
npp_slow
CMCC-ESM2
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast

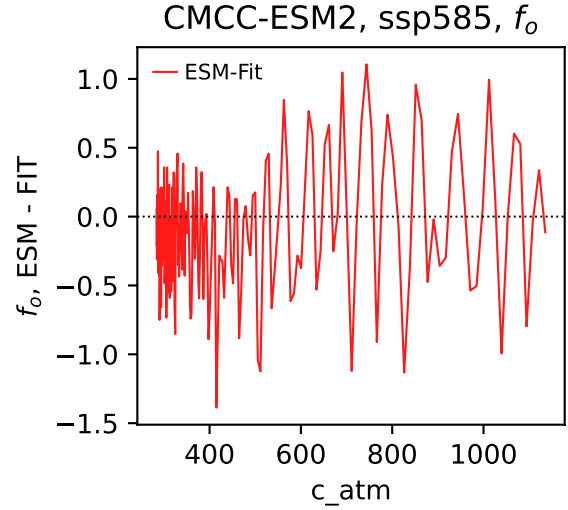

CMCC-ESM2, ssp585, f_o
ESM
Fit
f_o
Year

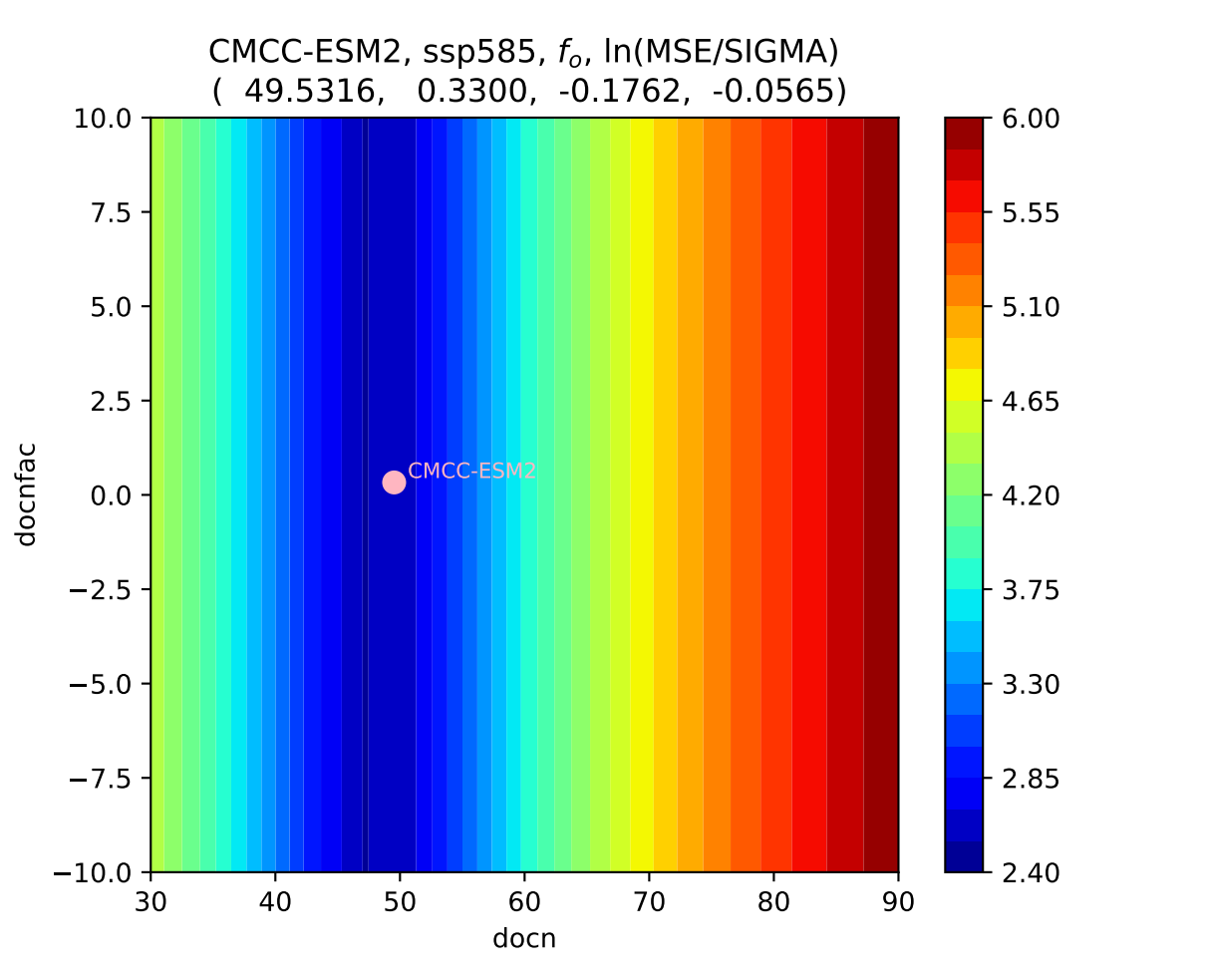

CMCC-ESM2, ssp585, f_o
ESM-Fit
f_o, ESM - FIT
Year

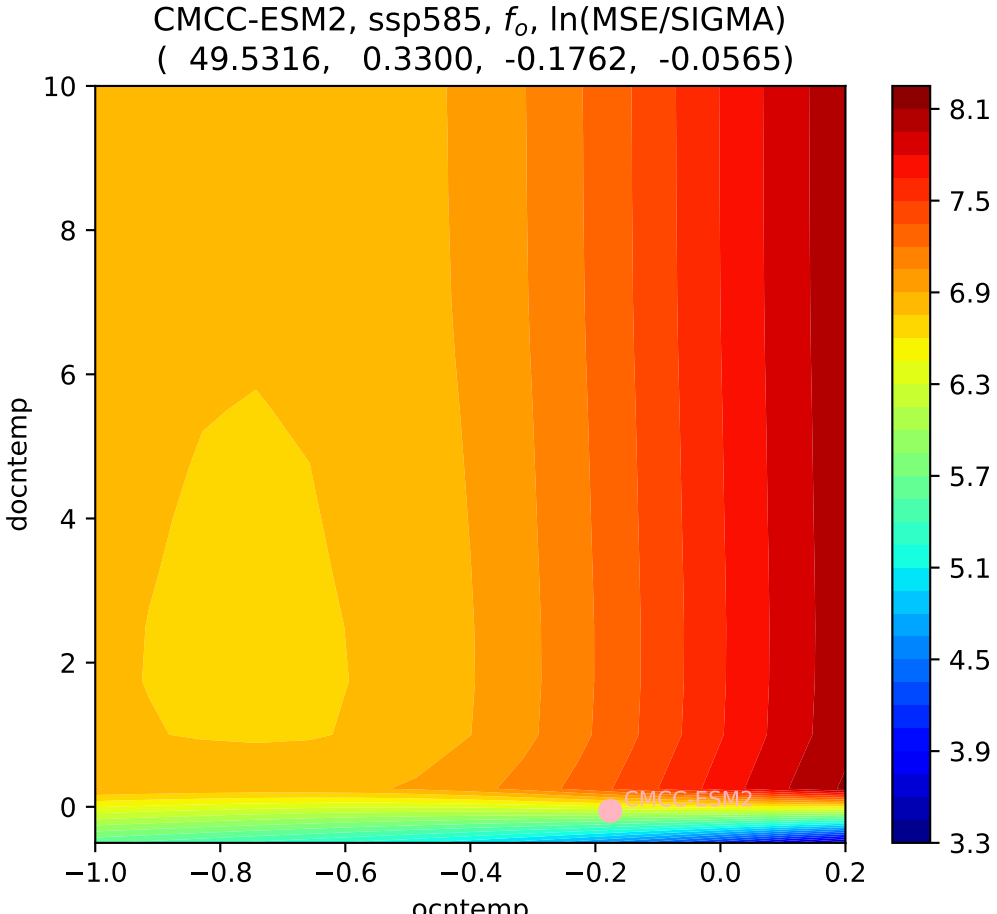

CMCC-ESM2, ssp585, f_o
ESM
Fit
f_o
ΔT


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)
(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
6.00
5.55
5.10
4.65
4.20
3.75
3.30
2.85
2.40


CMCC-ESM2, ssp585, 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
8.1
7.5
6.9
6.3
5.7
5.1
4.5
3.9
3.3