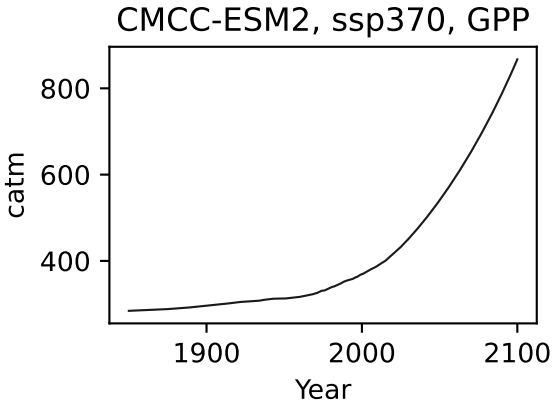
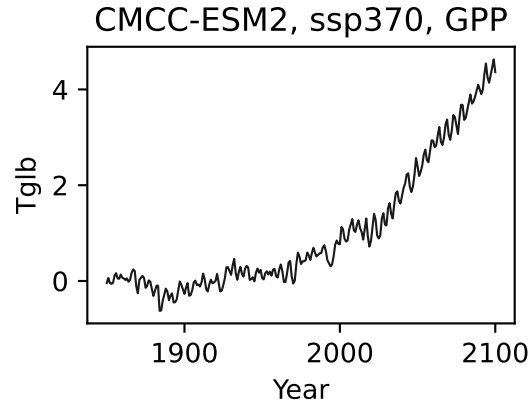
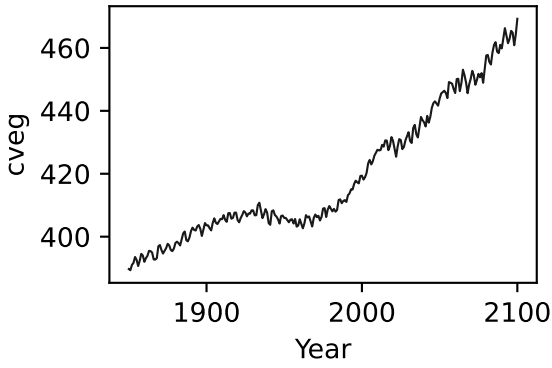
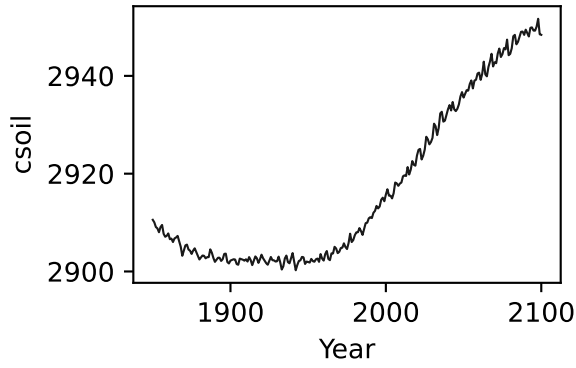
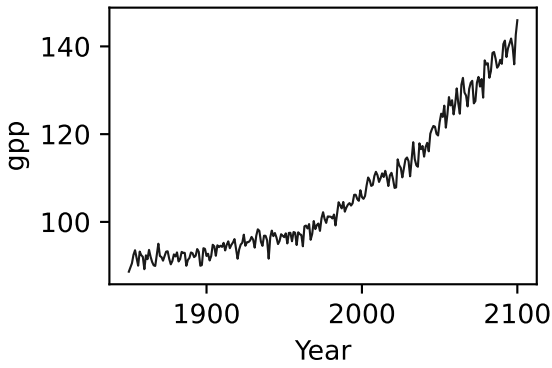
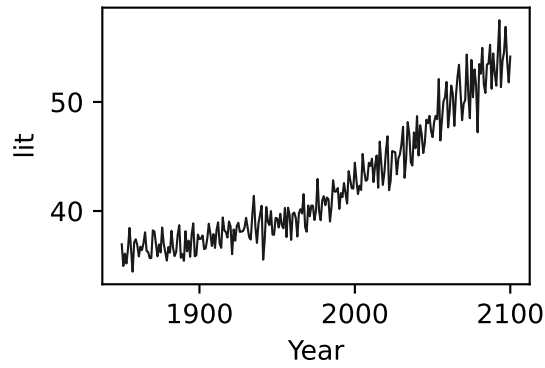

CMCC-ESM2, ssp370, GPP
catm
800
600
400
1900
2000
2100
Year

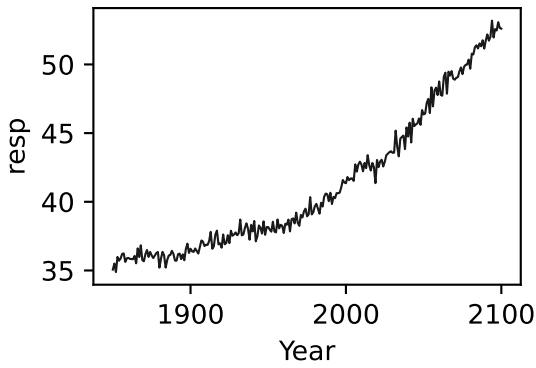

CMCC-ESM2, ssp370, GPP
Tglb
4
2
0
1900
2000
2100
Year

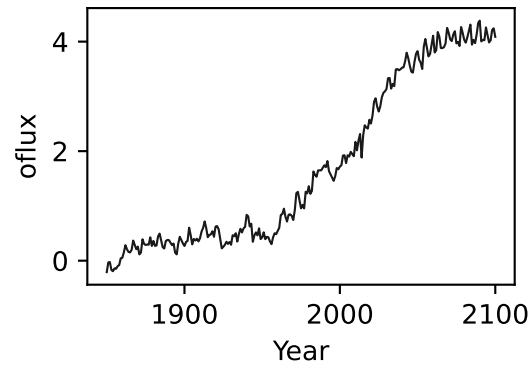

cveg
460
440
420
400
1900
2000
2100
Year

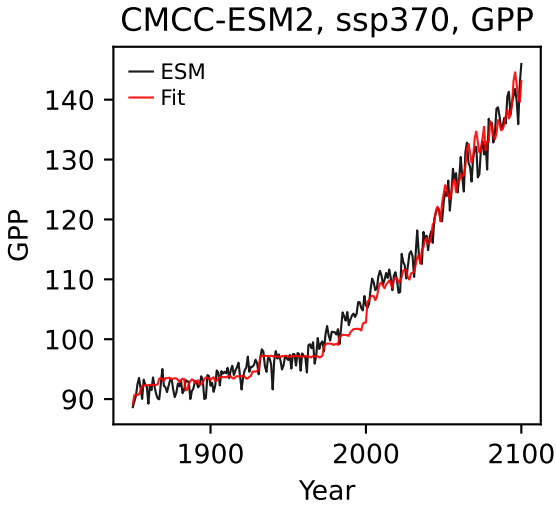

csoil
2940
2920
2900
1900
2000
2100
Year

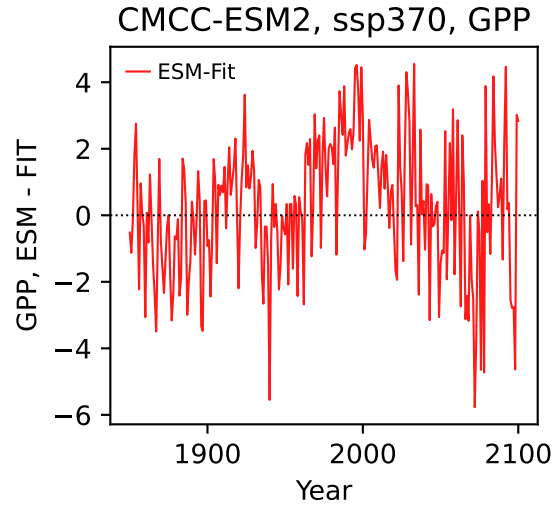

gpp
140
120
100
1900
2000
2100
Year

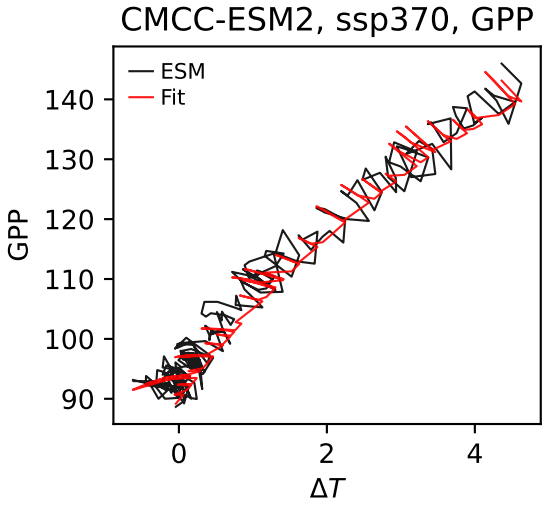

lit
50
40
1900
2000
2100
Year

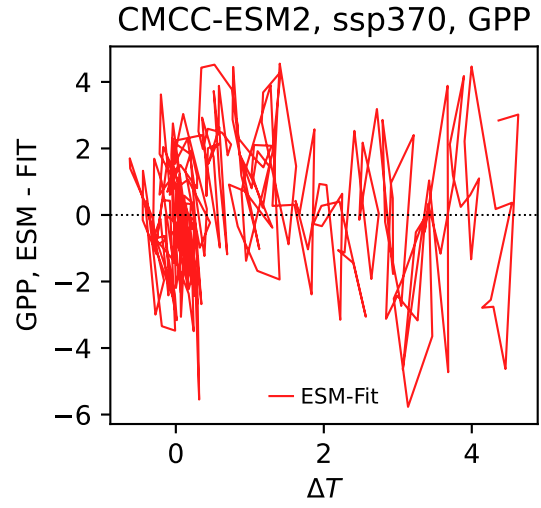

resp
50
45
40
35
1900
2000
2100
Year

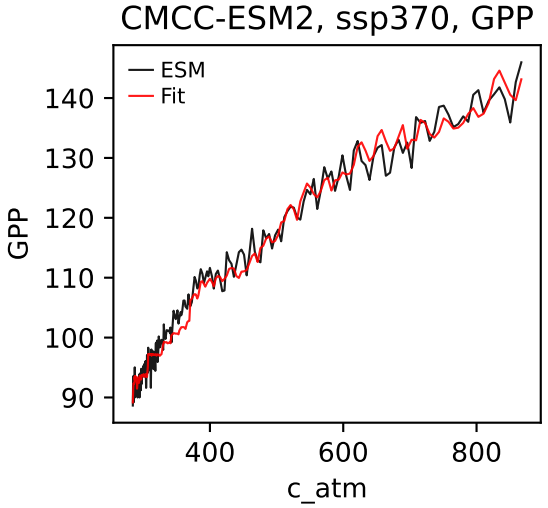

oflux
4
2
0
1900
2000
2100
Year

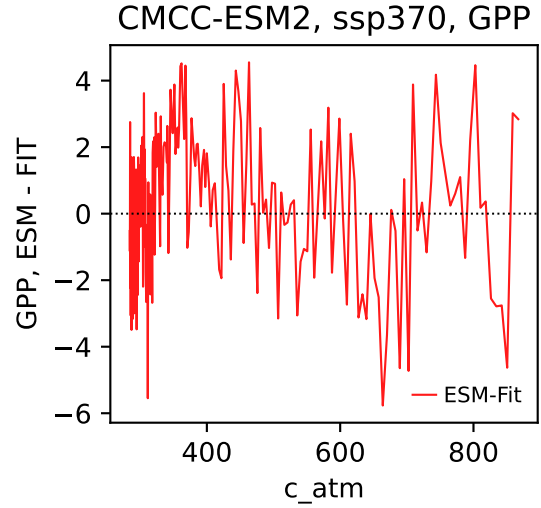

CMCC-ESM2, ssp370, GPP
ESM
Fit
GPP
Year

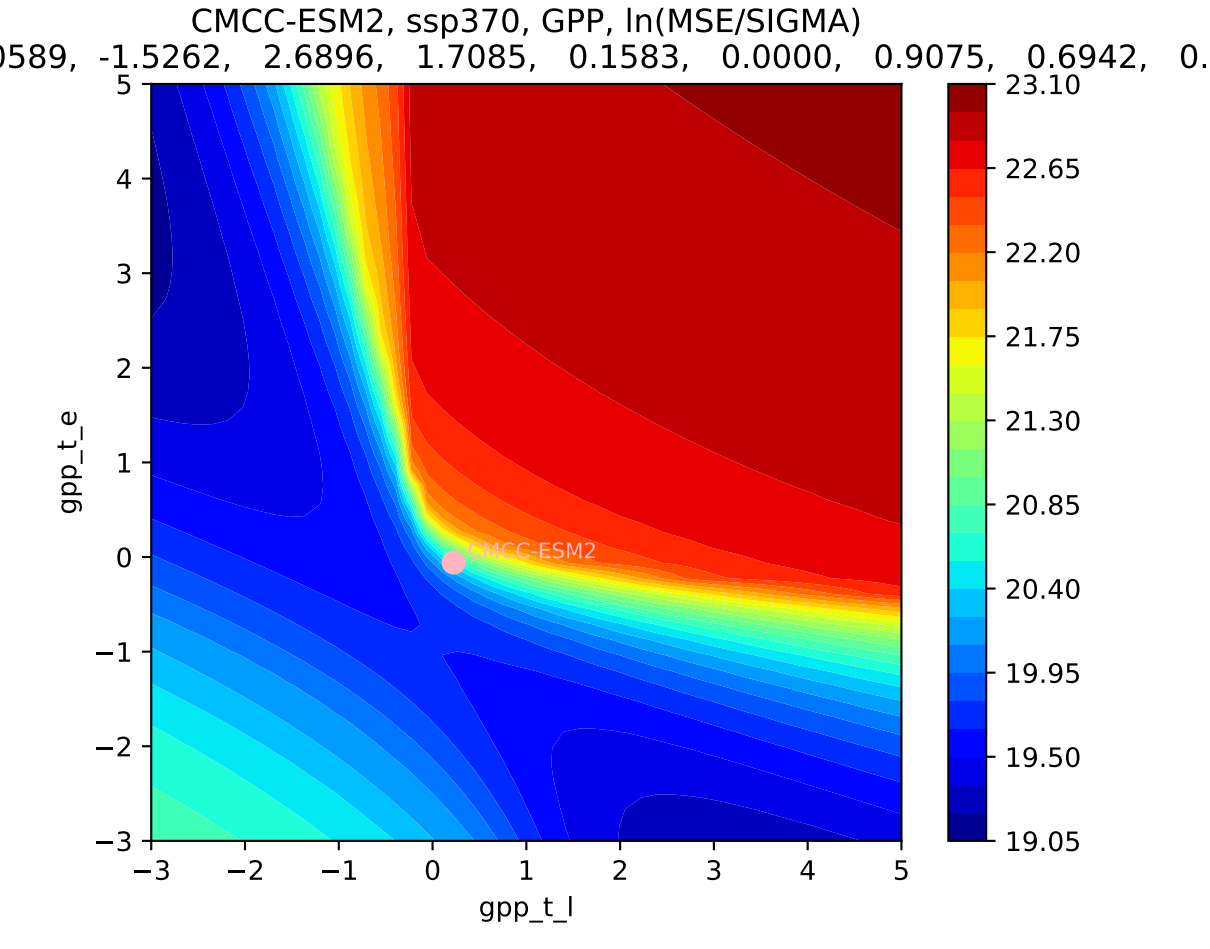

CMCC-ESM2, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
Year

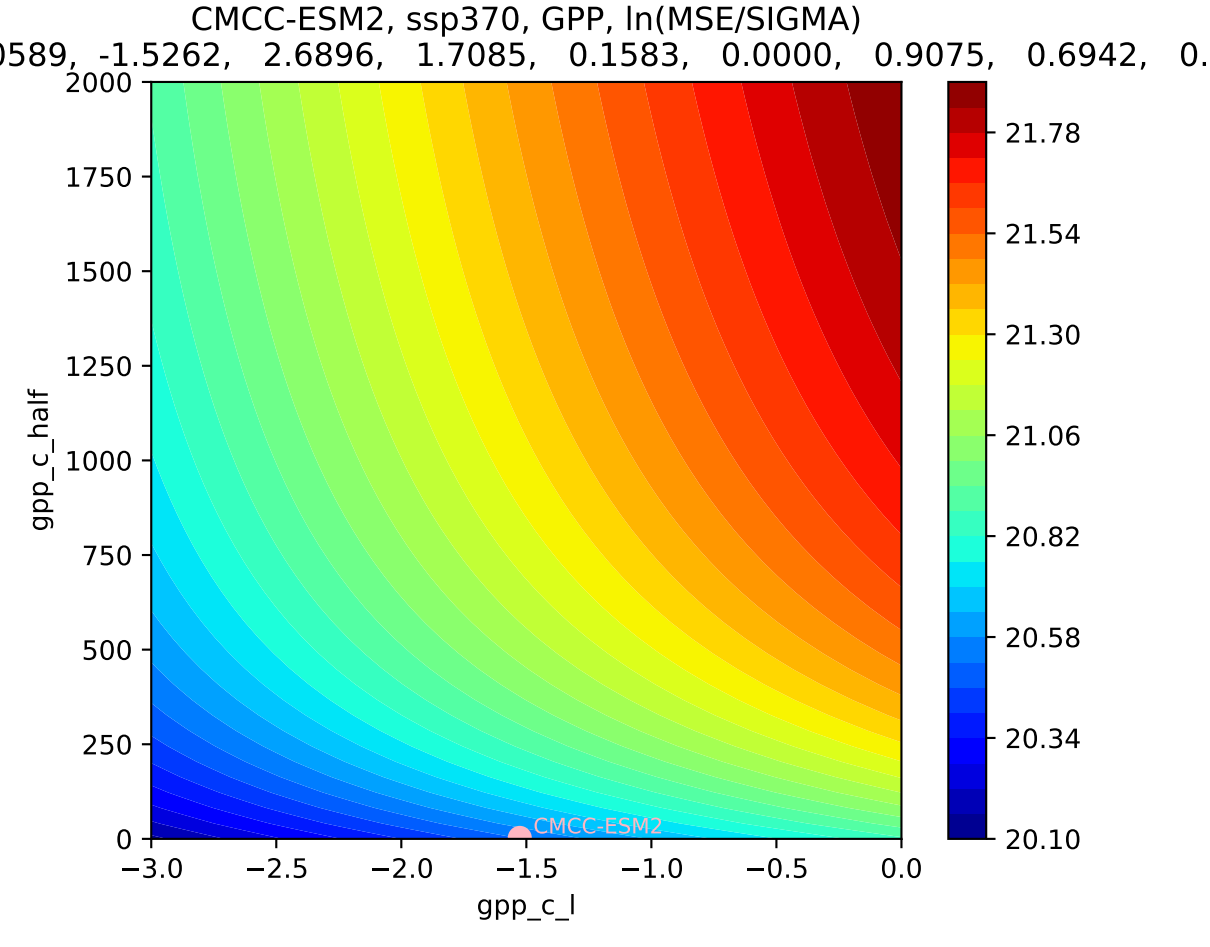

CMCC-ESM2, ssp370, GPP
ESM
Fit
GPP
ΔT

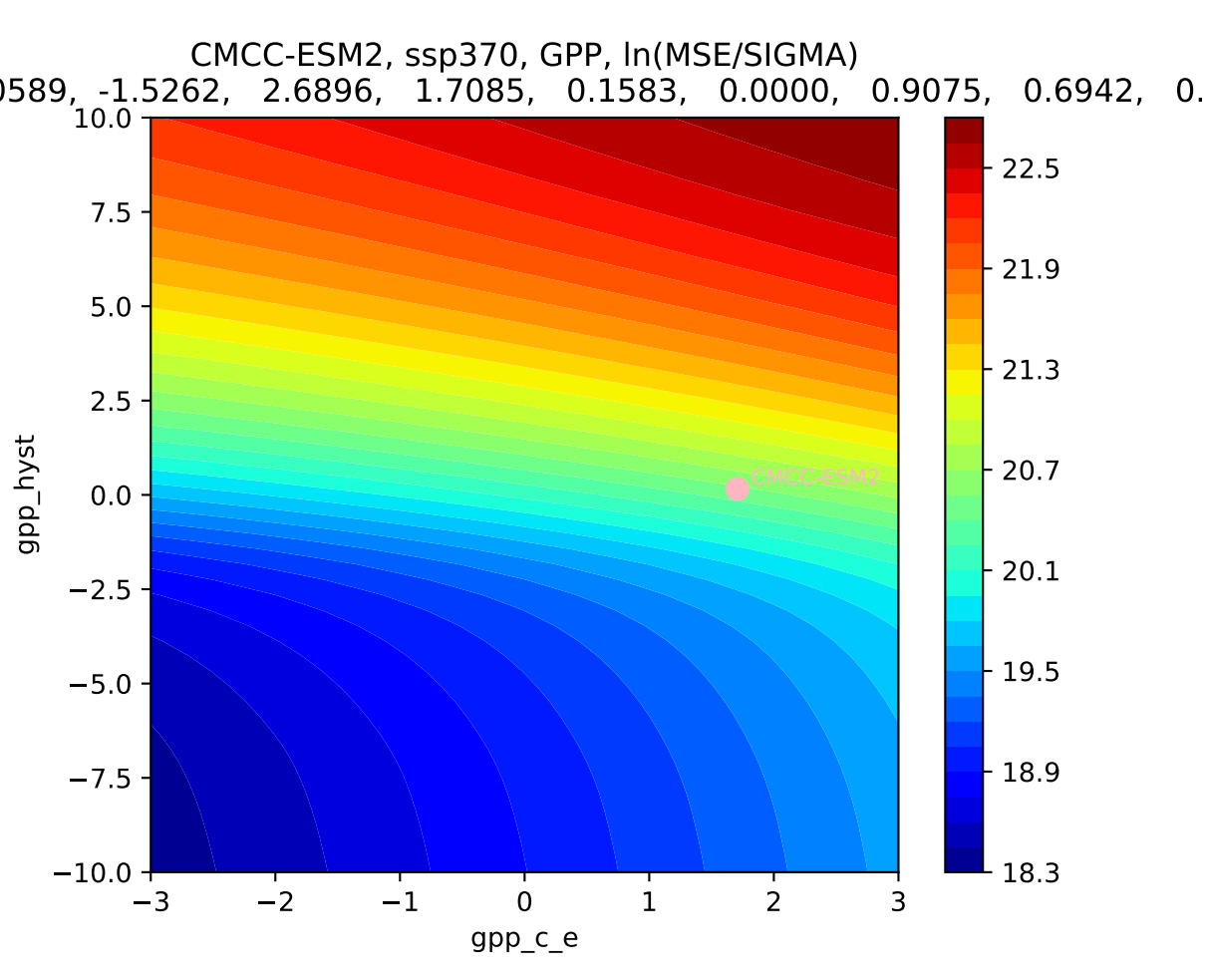

CMCC-ESM2, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

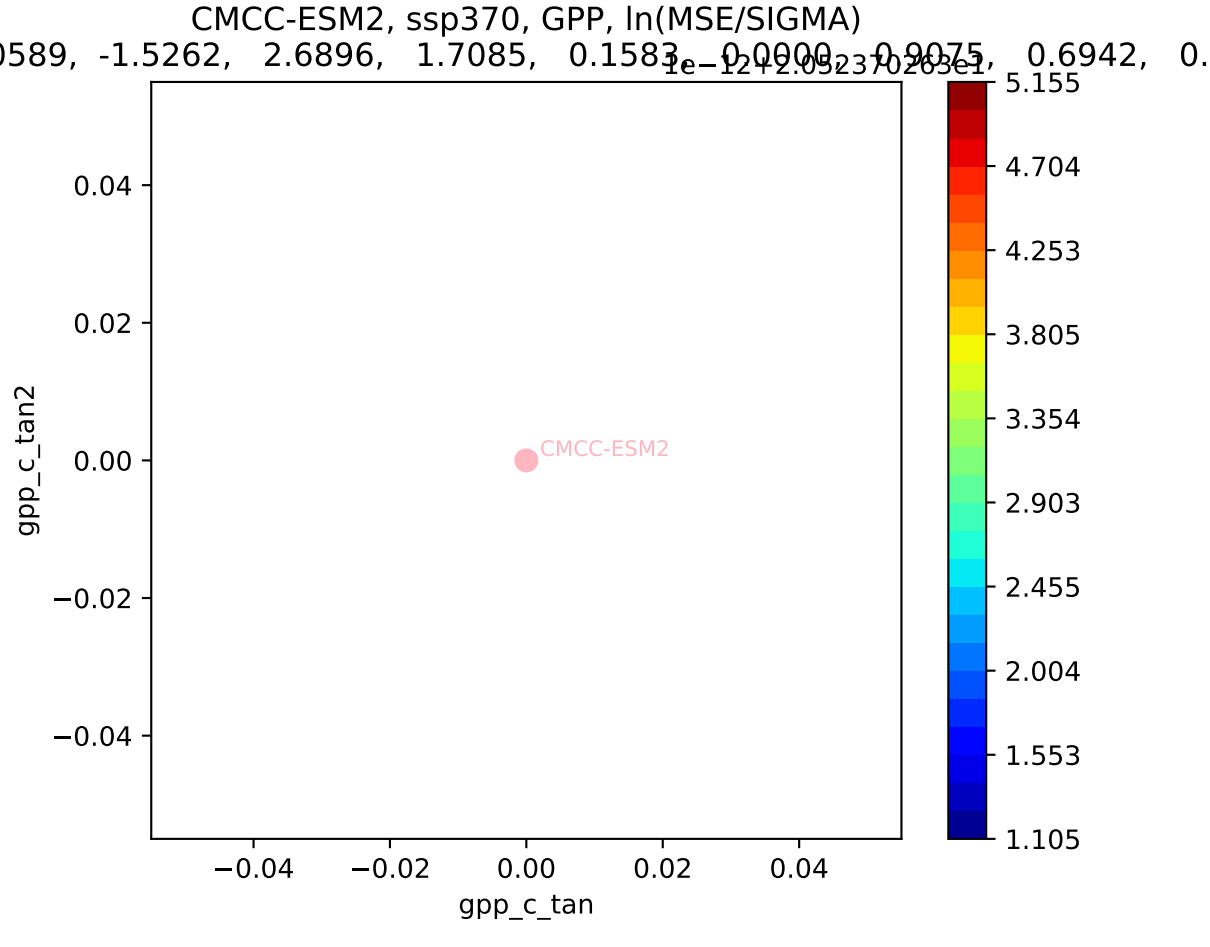

CMCC-ESM2, ssp370, GPP
ESM
Fit
GPP
c_atm

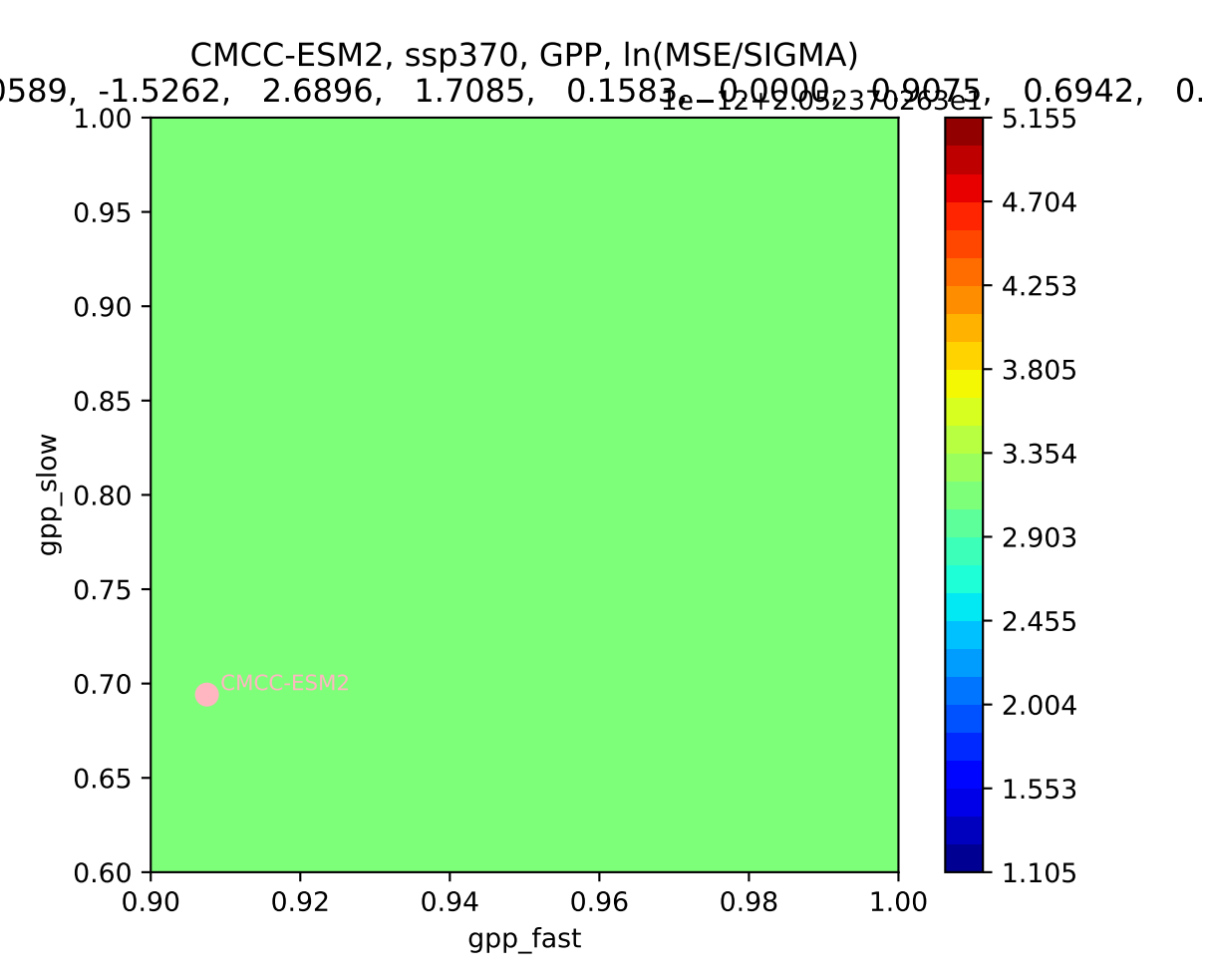

CMCC-ESM2, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

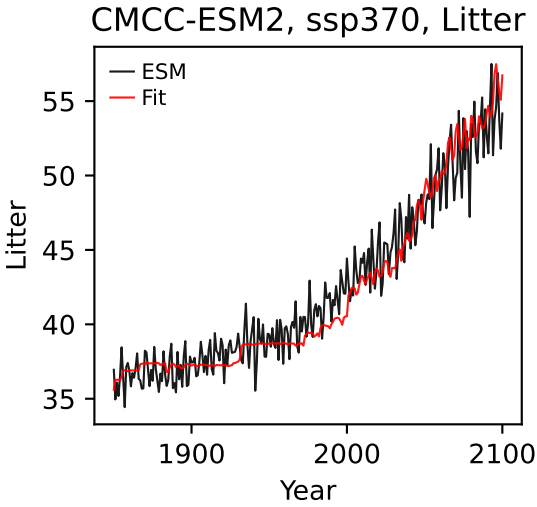

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
0589, -1.5262, 2.6896, 1.7085, 0.1583, 0.0000, 0.9075, 0.6942, 0.
gpp_t_e
gpp_t_l
CMCC-ESM2
23.10
22.65
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05

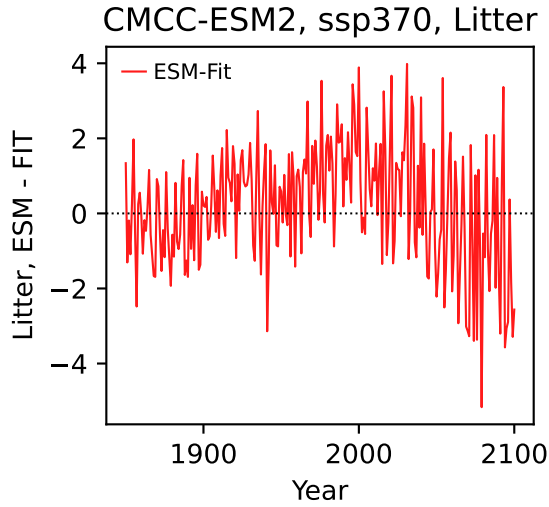

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
0589, -1.5262, 2.6896, 1.7085, 0.1583, 0.0000, 0.9075, 0.6942, 0.
gpp_c_half
gpp_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
21.78
21.54
21.30
21.06
20.82
20.58
20.34
20.10

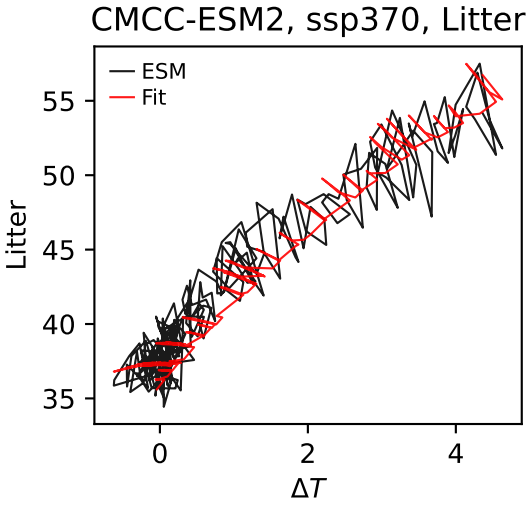

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
0589, -1.5262, 2.6896, 1.7085, 0.1583, 0.0000, 0.9075, 0.6942, 0.
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
gpp_hyst
−3
−2
−1
0
1
2
3
gpp_c_e
CMCC-ESM2
22.5
21.9
21.3
20.7
20.1
19.5
18.9
18.3

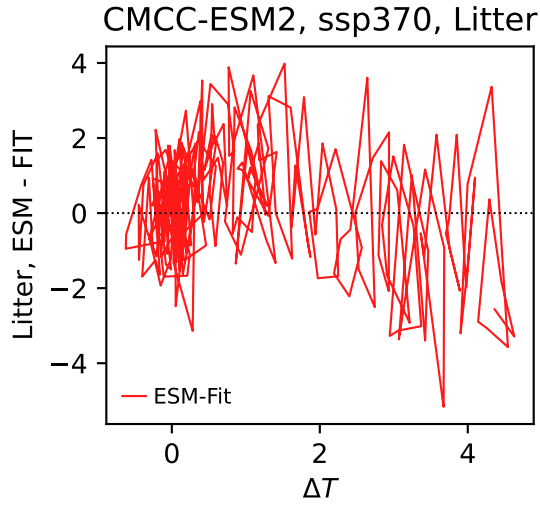

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
0589, -1.5262, 2.6896, 1.7085, 0.1583, 0.0000, 0.9075, 0.6942, 0.
1e−12+2.052370263e1
5.155
4.704
4.253
3.805
3.354
2.903
2.455
2.004
1.553
1.105
CMCC-ESM2
0.04
0.02
0.00
−0.02
−0.04
gpp_c_tan2
−0.04
−0.02
0.00
0.02
0.04
gpp_c_tan

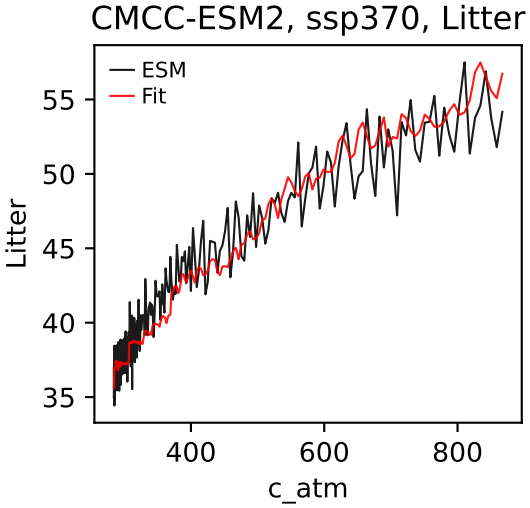

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
0589, -1.5262, 2.6896, 1.7085, 0.1583, 0.0000, 0.9075, 0.6942, 0.
1e−12+2.052370263e1
gpp_slow
gpp_fast
CMCC-ESM2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
5.155
4.704
4.253
3.805
3.354
2.903
2.455
2.004
1.553
1.105

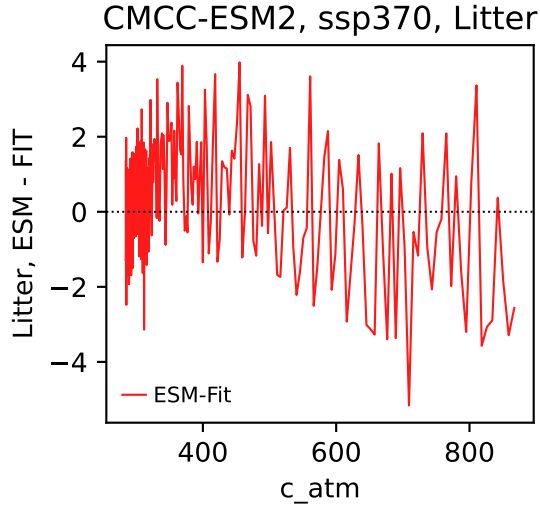

CMCC-ESM2, ssp370, Litter
ESM
Fit
Litter
Year

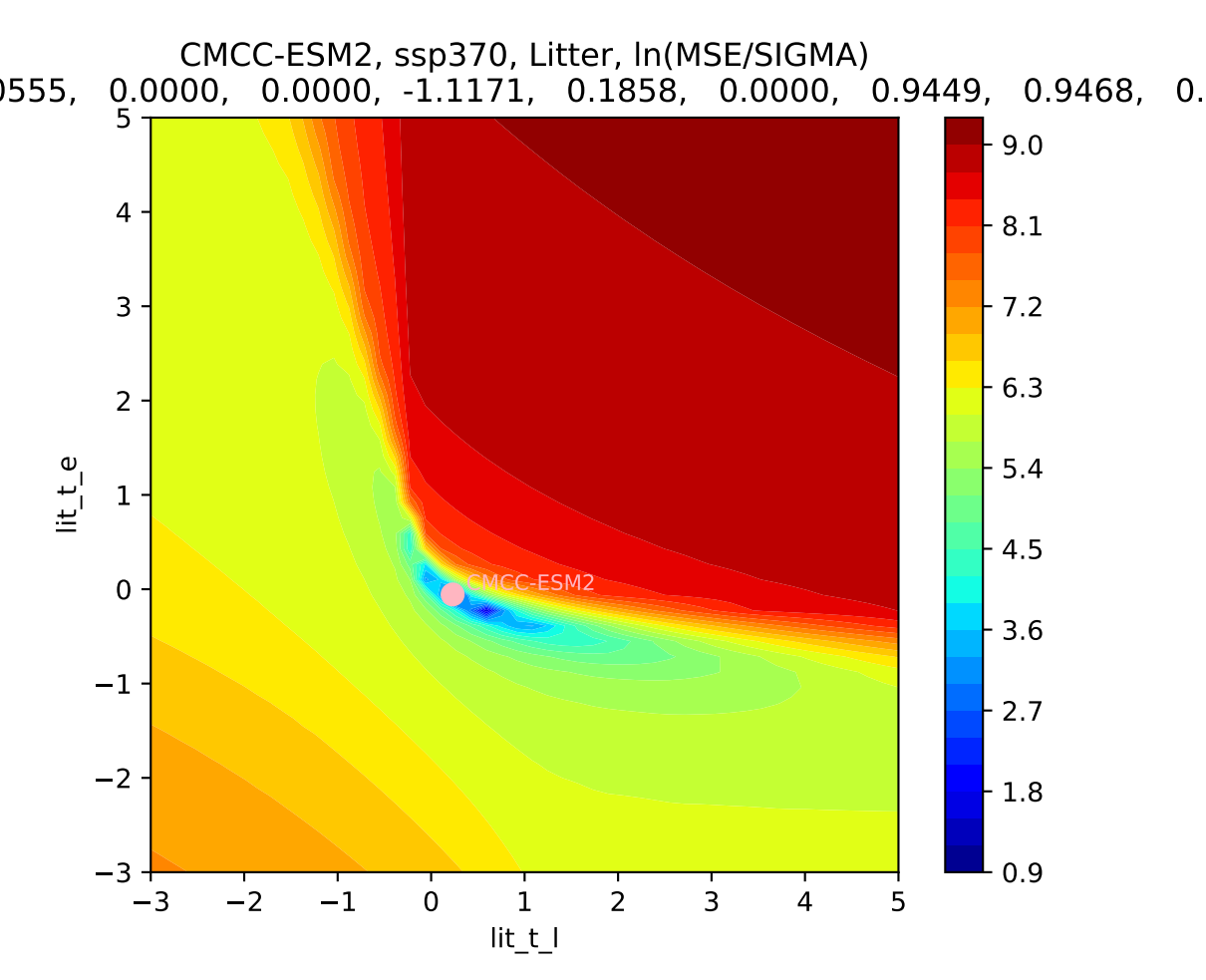

CMCC-ESM2, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
Year

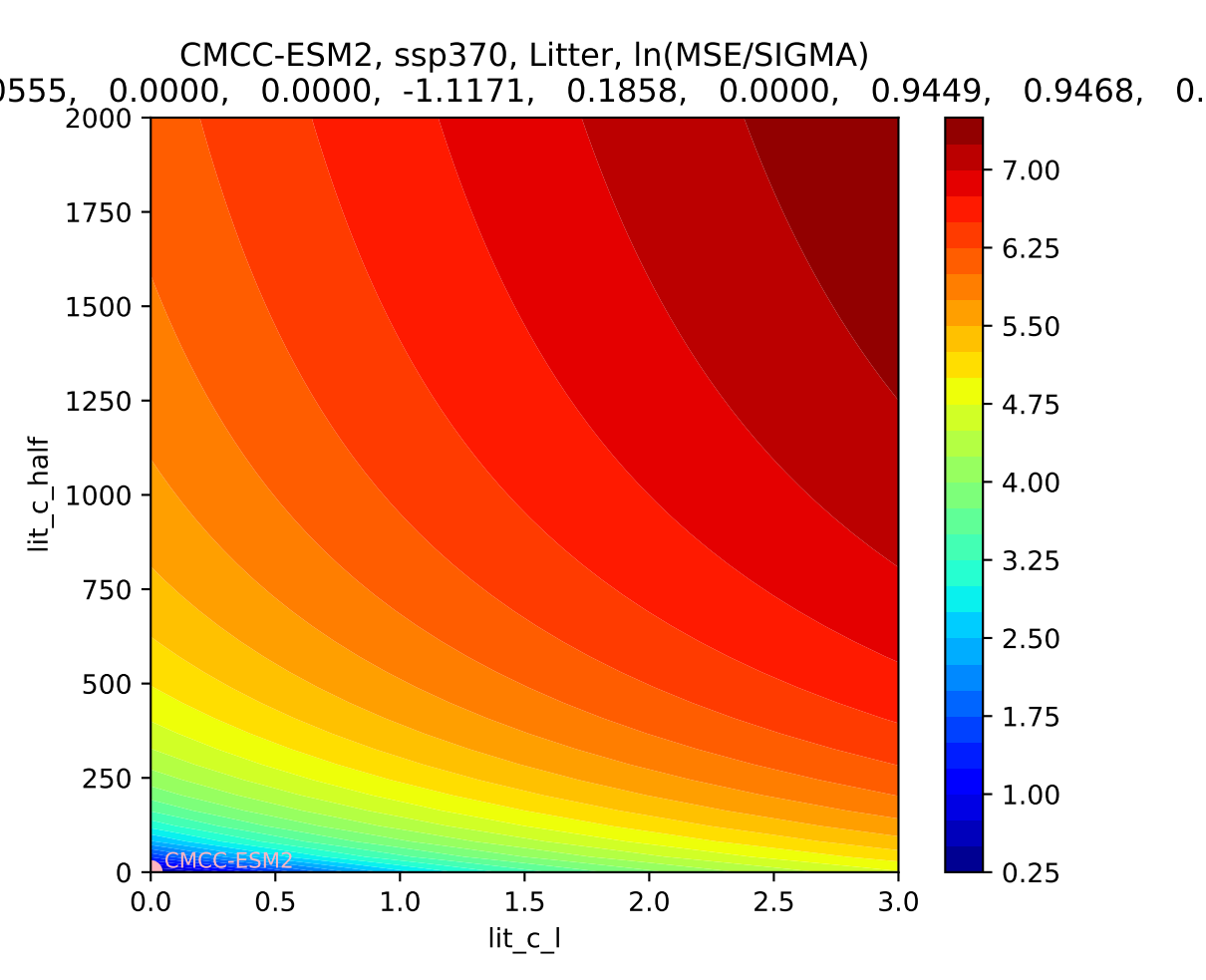

CMCC-ESM2, ssp370, Litter
ESM
Fit
Litter
ΔT

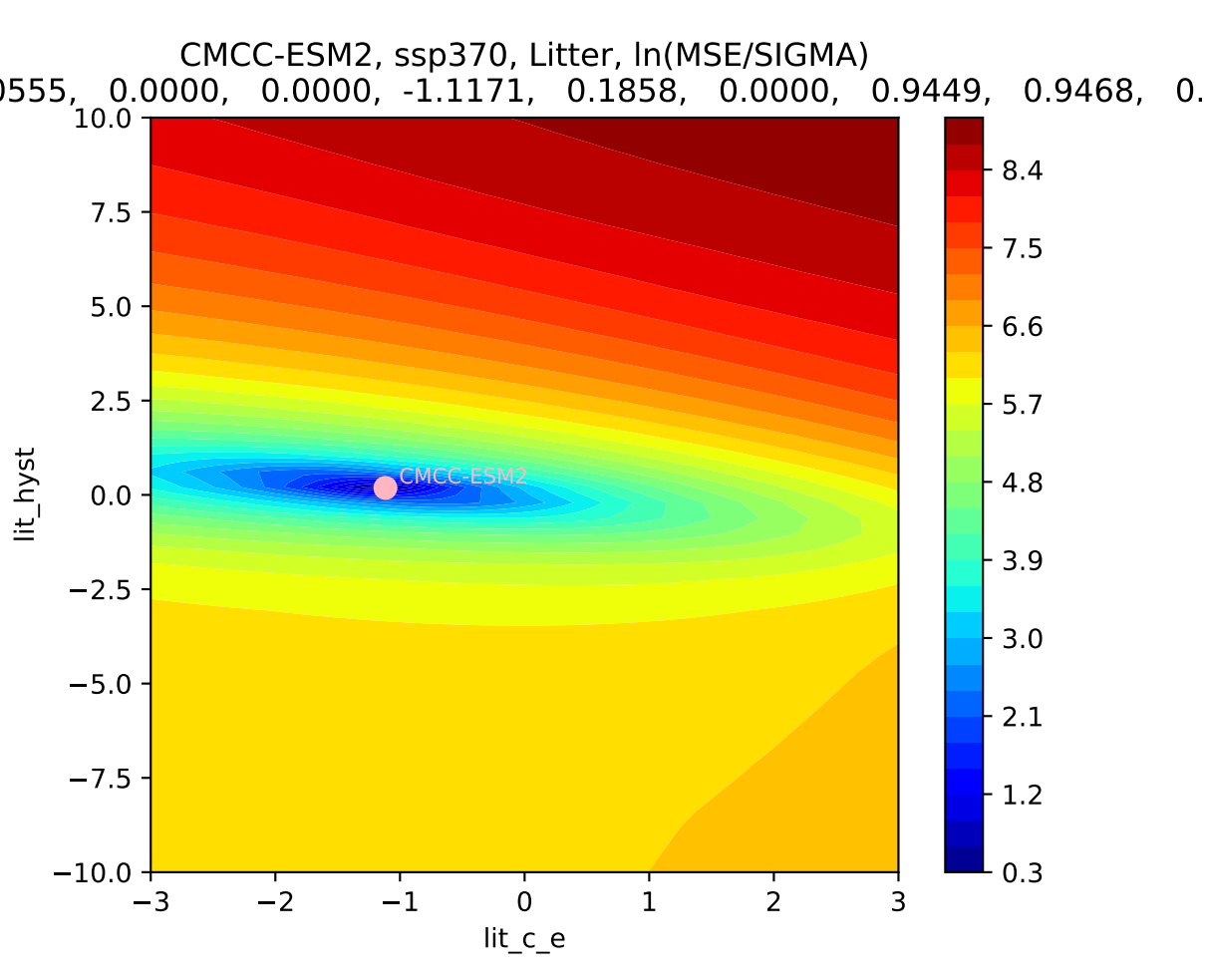

CMCC-ESM2, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

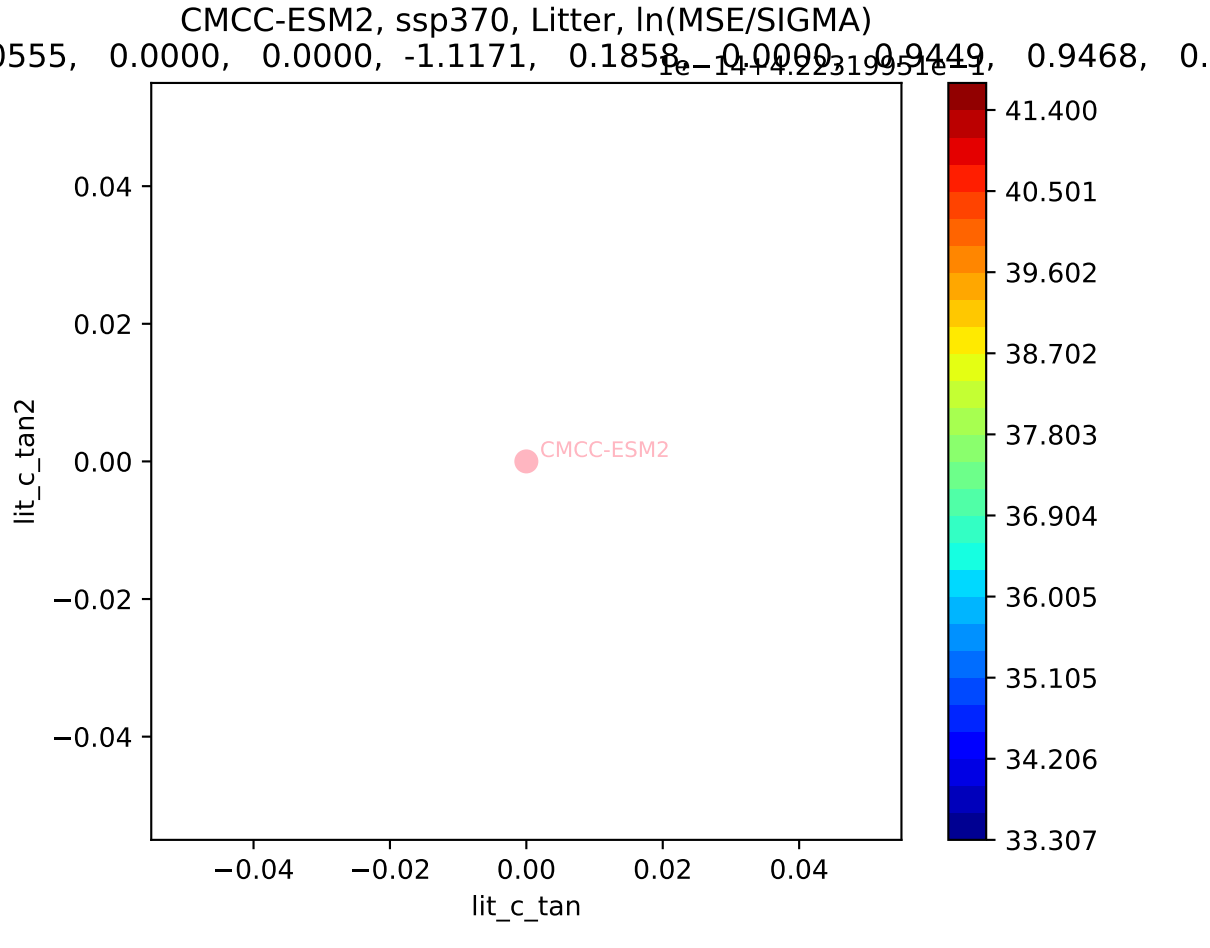

CMCC-ESM2, ssp370, Litter
ESM
Fit
Litter
c_atm

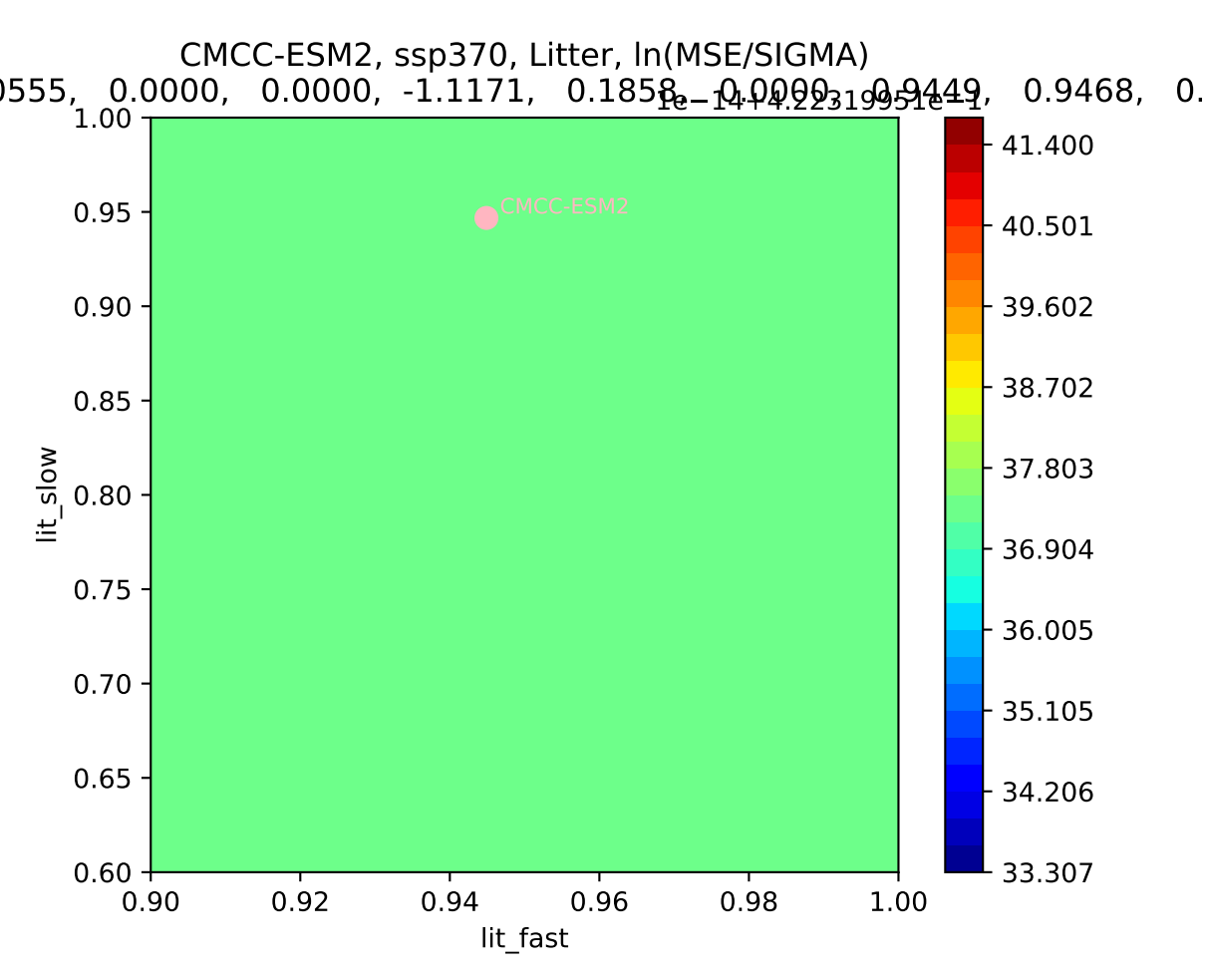

CMCC-ESM2, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

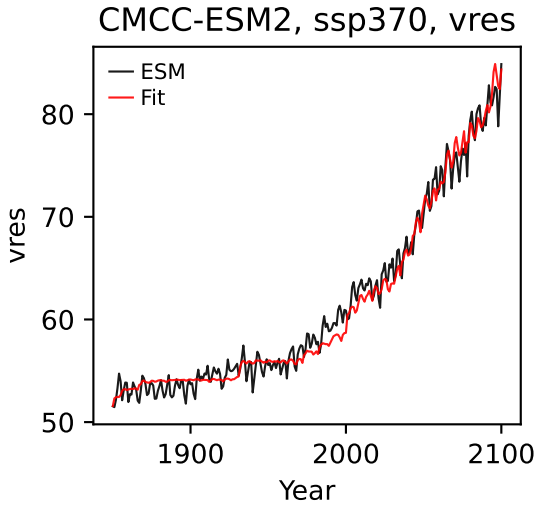

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0555, 0.0000, 0.0000, -1.1171, 0.1858, 0.0000, 0.9449, 0.9468, 0.
CMCC-ESM2
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8
0.9

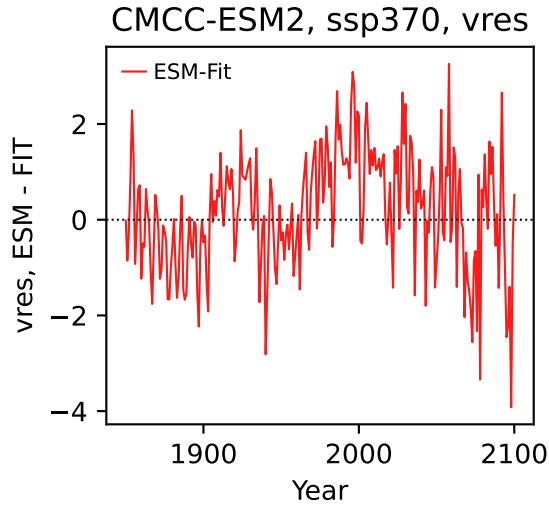

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0555, 0.0000, 0.0000, -1.1171, 0.1858, 0.0000, 0.9449, 0.9468, 0.
lit_c_half
lit_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00
0.25

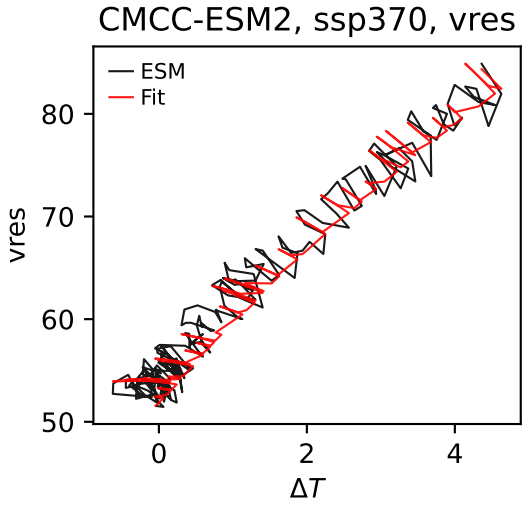

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0555, 0.0000, 0.0000, -1.1171, 0.1858, 0.0000, 0.9449, 0.9468, 0.
CMCC-ESM2
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2
0.3

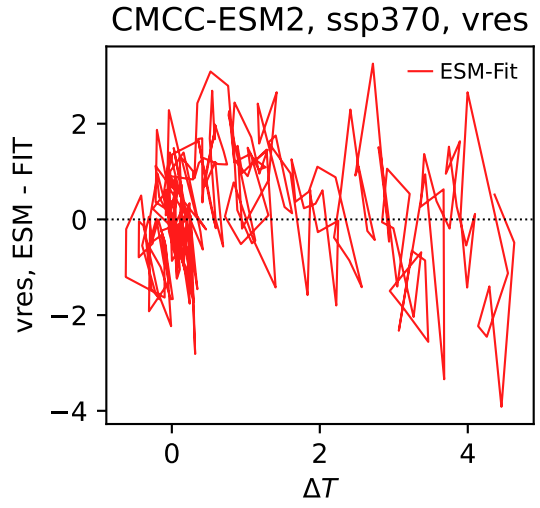

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0555, 0.0000, 0.0000, -1.1171, 0.1858, 0.0000, 0.9449, 0.9468, 0.
1e−14 4.223199 51e−1
CMCC-ESM2
0.04
0.02
0.00
−0.02
−0.04
lit_c_tan2
−0.04
−0.02
0.00
0.02
0.04
lit_c_tan
41.400
40.501
39.602
38.702
37.803
36.904
36.005
35.105
34.206
33.307

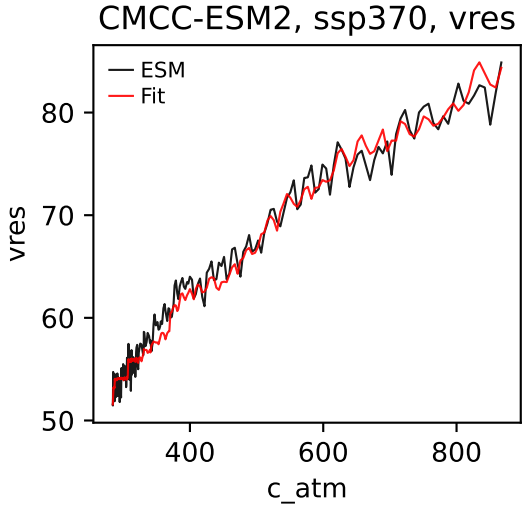

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0555, 0.0000, 0.0000, -1.1171, 0.1858, 0.0000, 0.9449, 0.9468, 0.
1e−14 +4.223199 51e+1
CMCC-ESM2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
lit_slow
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
41.400
40.501
39.602
38.702
37.803
36.904
36.005
35.105
34.206
33.307

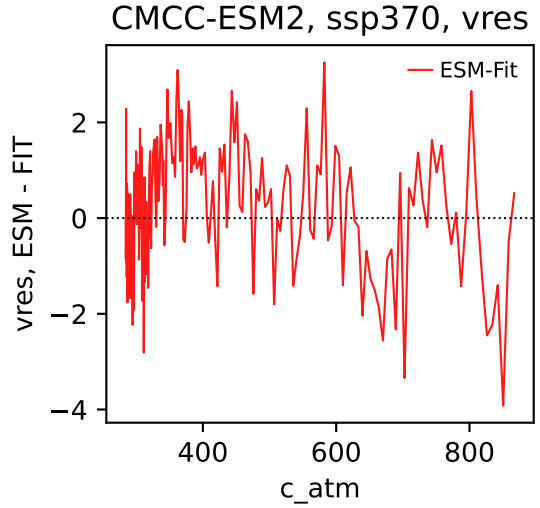

CMCC-ESM2, ssp370, vres
ESM
Fit
vres
Year

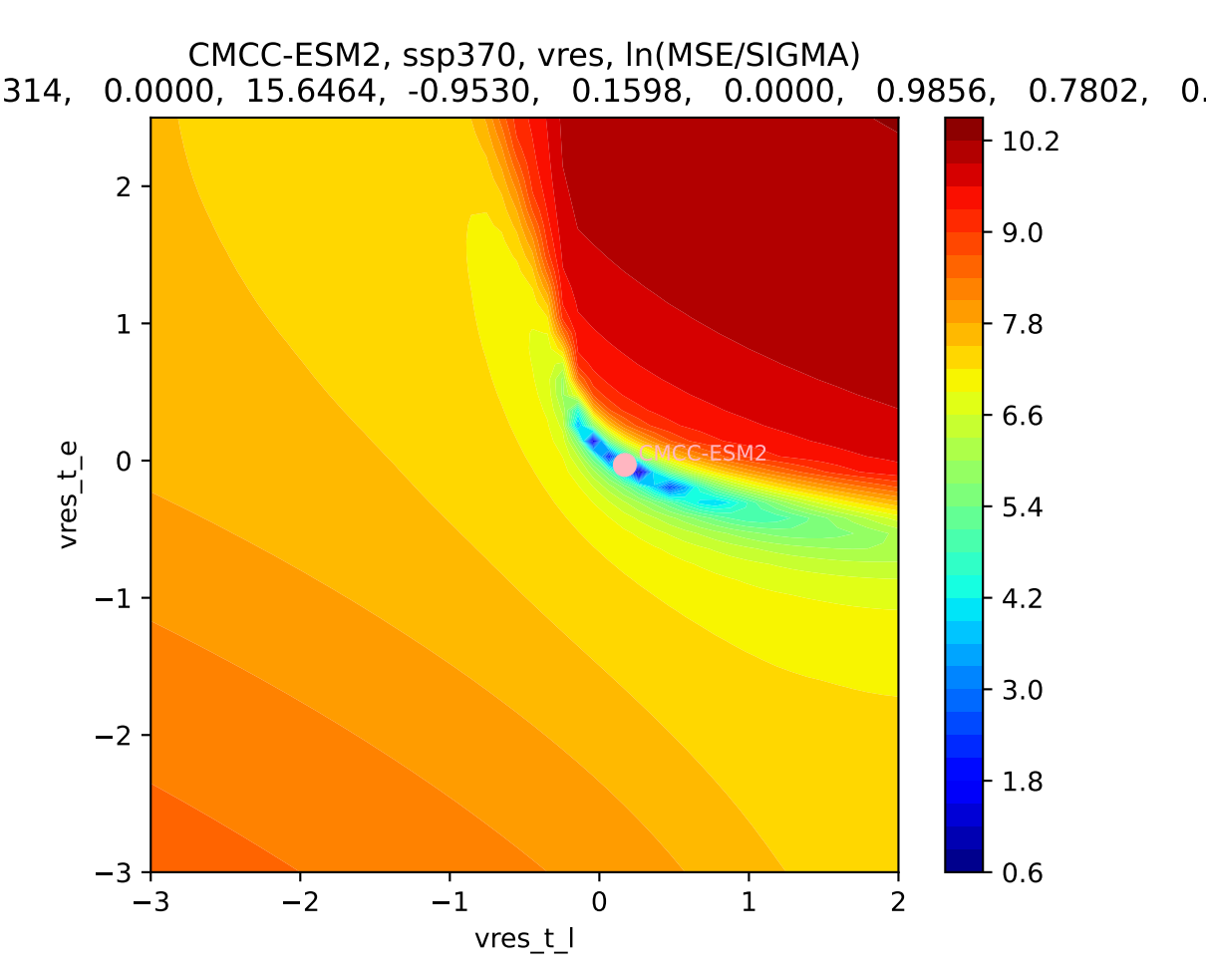

CMCC-ESM2, ssp370, vres
ESM-Fit
vres, ESM - FIT
Year

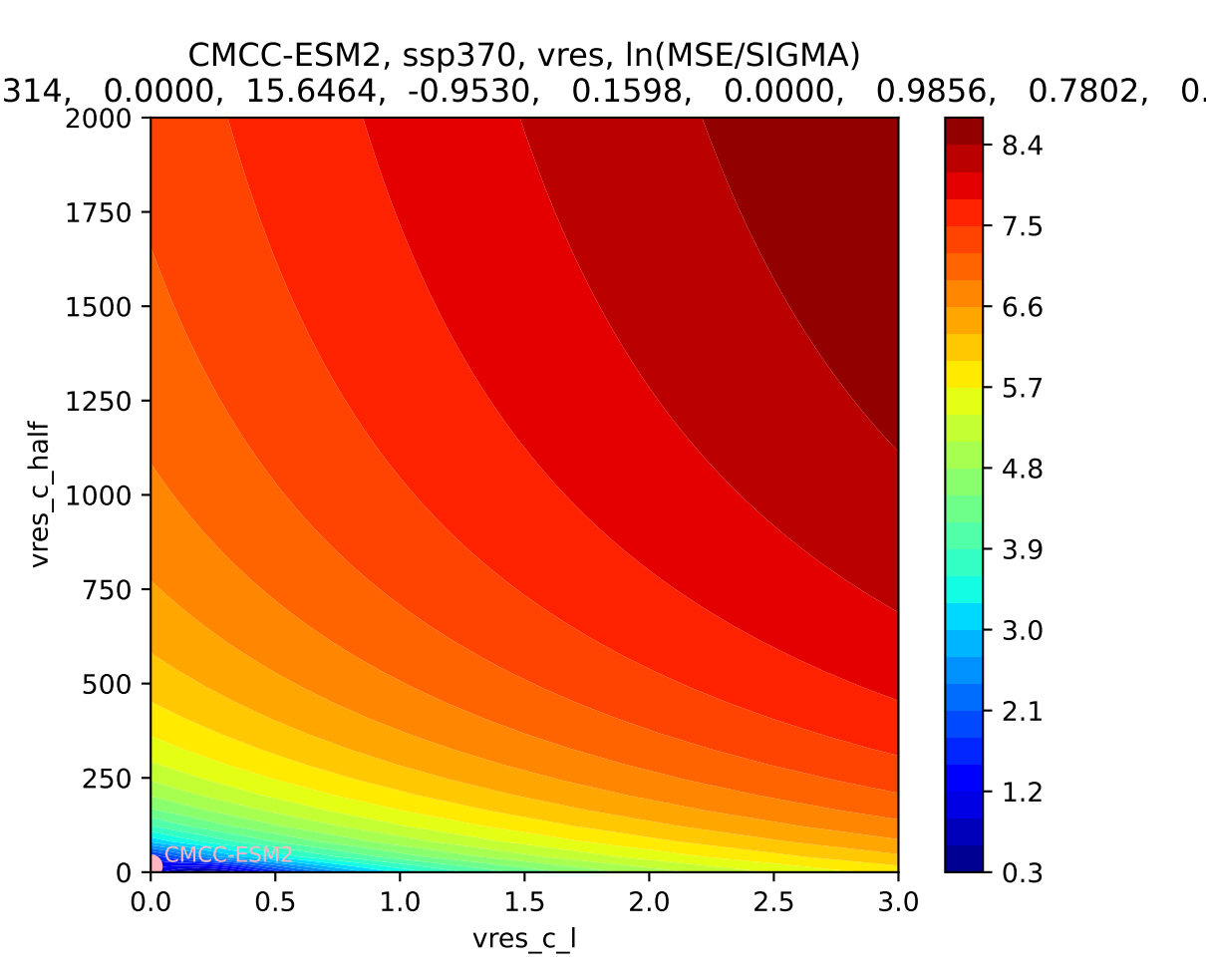

CMCC-ESM2, ssp370, vres
ESM
Fit
vres
ΔT

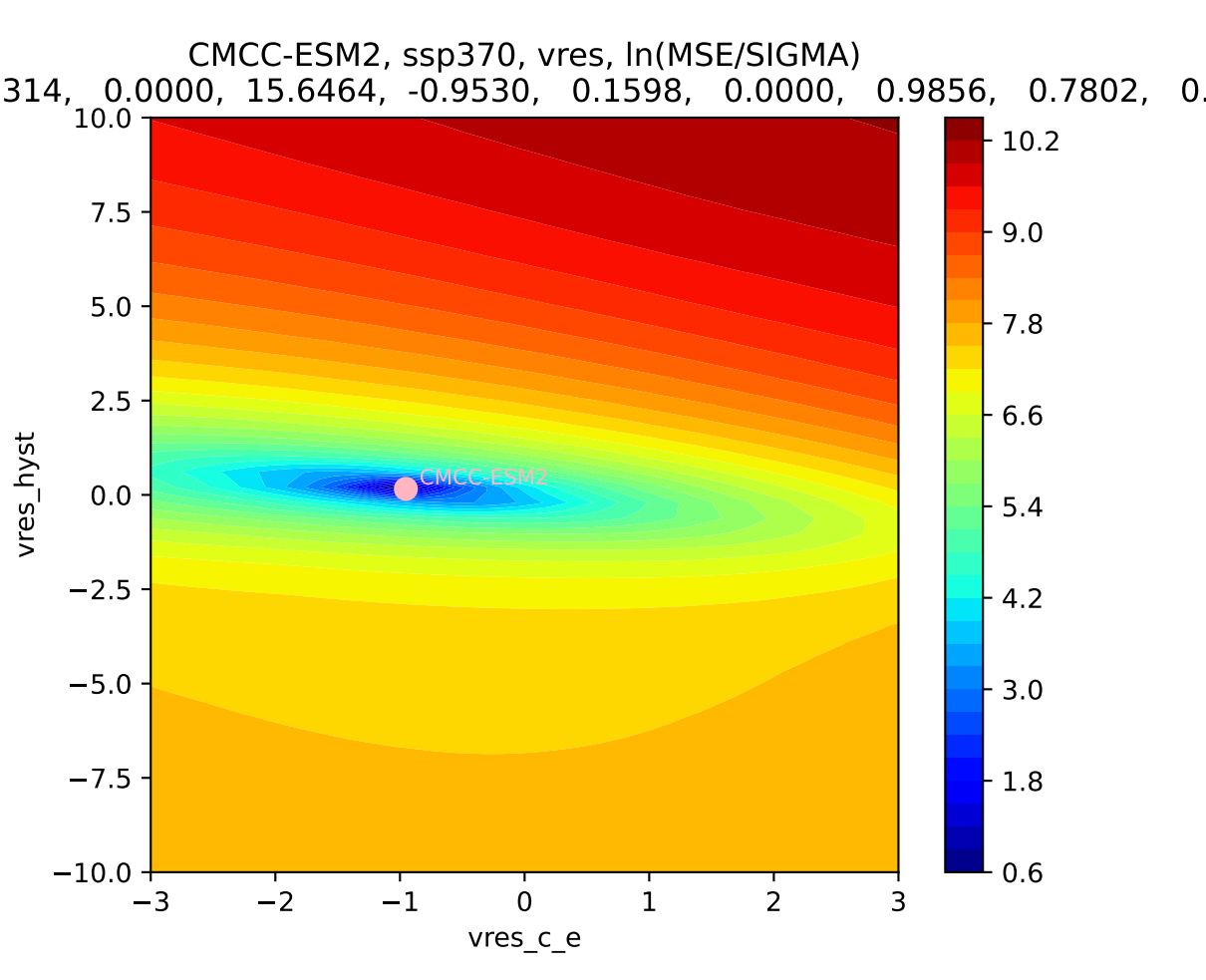

CMCC-ESM2, ssp370, vres
ESM-Fit
vres, ESM - FIT
ΔT

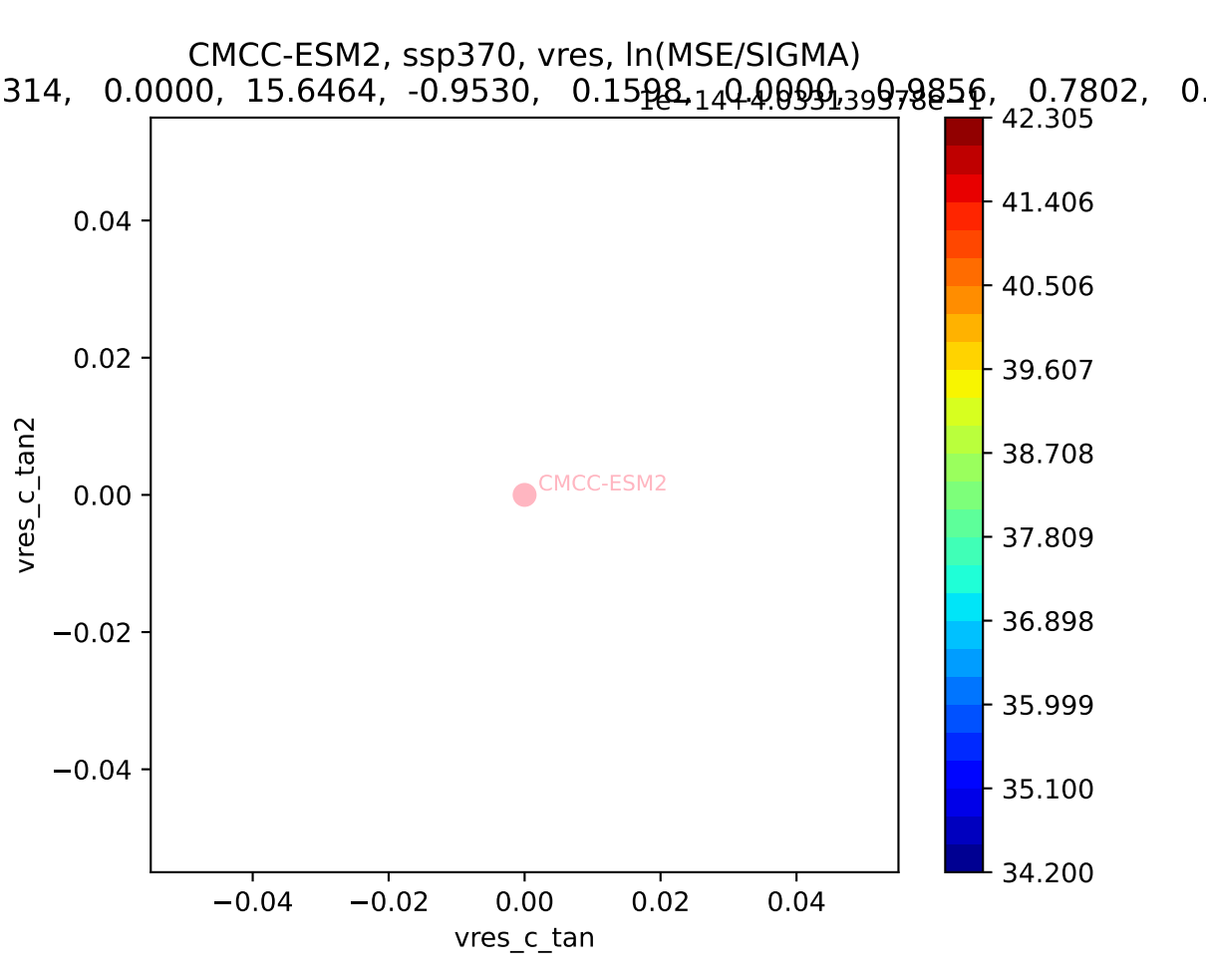

CMCC-ESM2, ssp370, vres
ESM
Fit
vres
c_atm

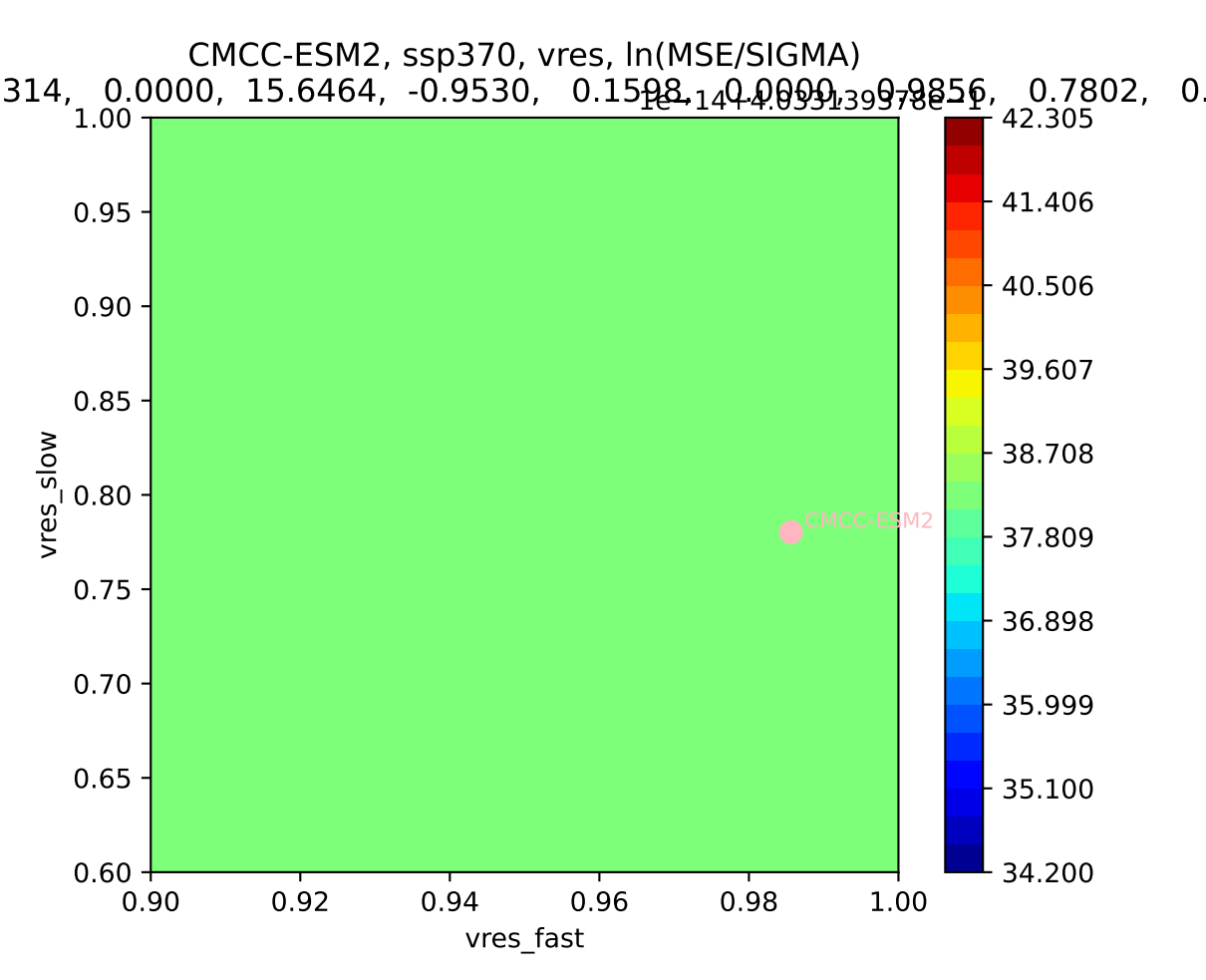

CMCC-ESM2, ssp370, vres
ESM-Fit
vres, ESM - FIT
c_atm

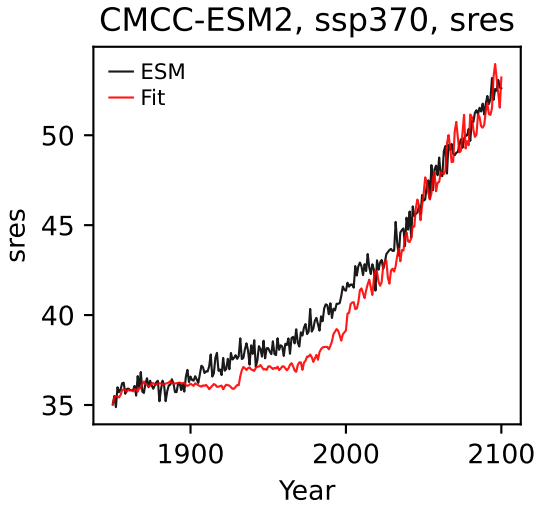

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
314, 0.0000, 15.6464, -0.9530, 0.1598, 0.0000, 0.9856, 0.7802, 0.
CMCC-ESM2
vres_t_e
vres_t_l
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6

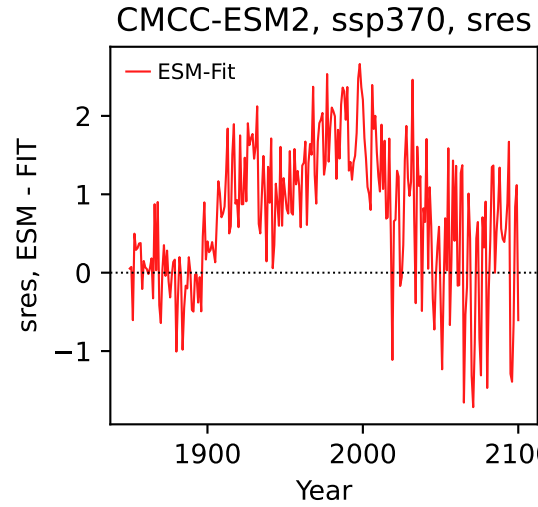

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
314, 0.0000, 15.6464, -0.9530, 0.1598, 0.0000, 0.9856, 0.7802, 0.
vres_c_half
vres_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2
0.3

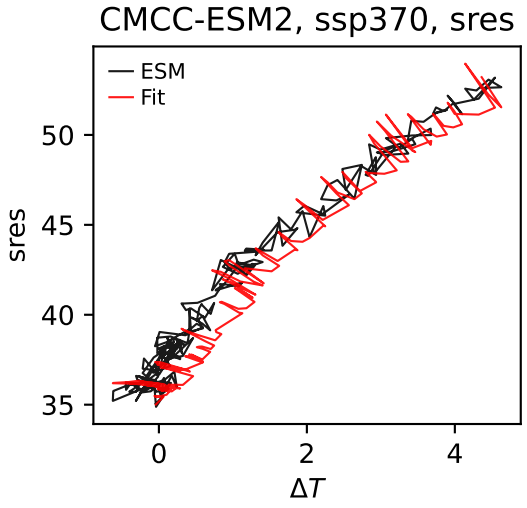

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
314, 0.0000, 15.6464, -0.9530, 0.1598, 0.0000, 0.9856, 0.7802, 0.
CMCC-ESM2
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6

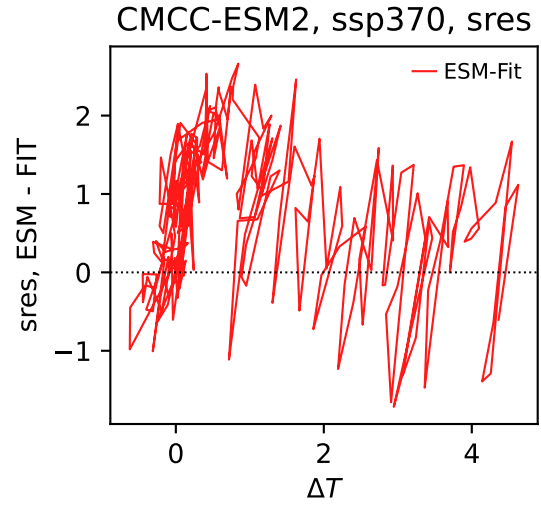

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
314, 0.0000, 15.6464, -0.9530, 0.1598, 0.0000, 0.9856, 0.7802, 0.
1e+14+4.0331395378e-1
CMCC-ESM2
vres_c_tan2
vres_c_tan
0.04
0.02
0.00
−0.02
−0.04
42.305
41.406
40.506
39.607
38.708
37.809
36.898
35.999
35.100
34.200

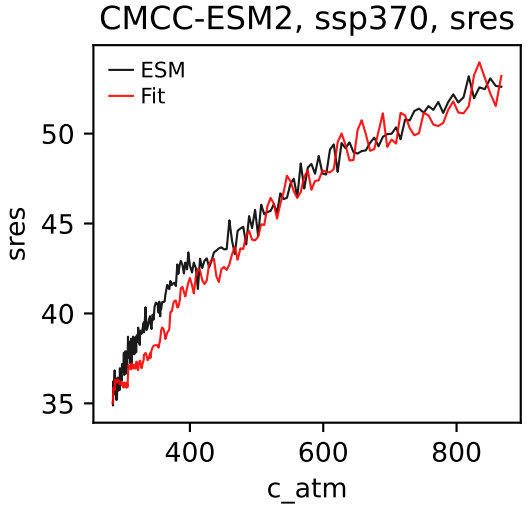

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
314, 0.0000, 15.6464, -0.9530, 0.1598, 0.0000, 0.9856, 0.7802, 0.
1e-14+4.033139378e-1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
vres_slow
CMCC-ESM2
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast
42.305
41.406
40.506
39.607
38.708
37.809
36.898
35.999
35.100
34.200

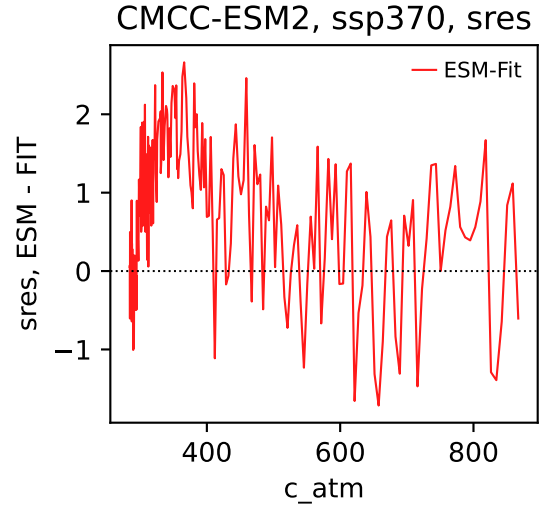

CMCC-ESM2, ssp370, sres
ESM
Fit
sres
Year

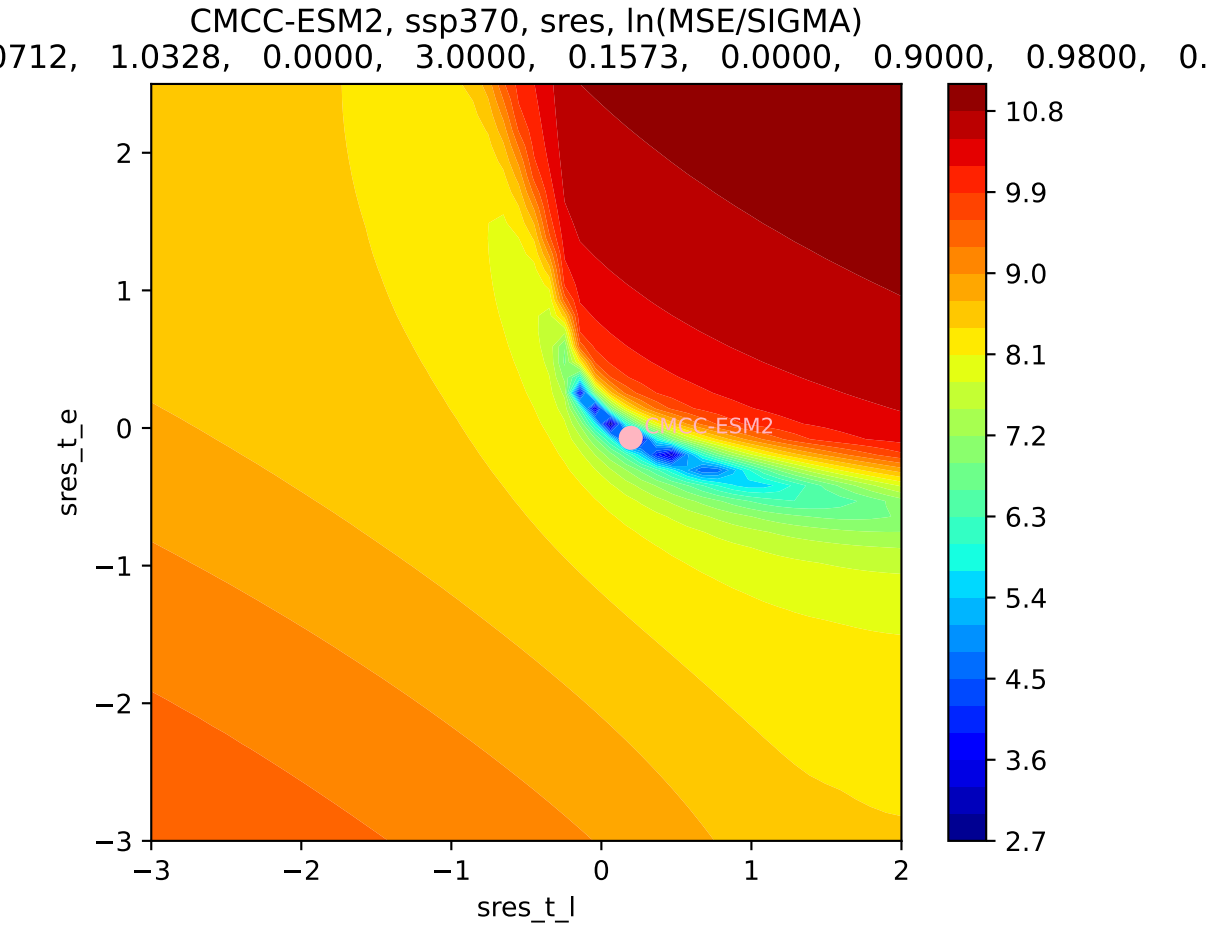

CMCC-ESM2, ssp370, sres
ESM-Fit
sres, ESM - FIT
Year

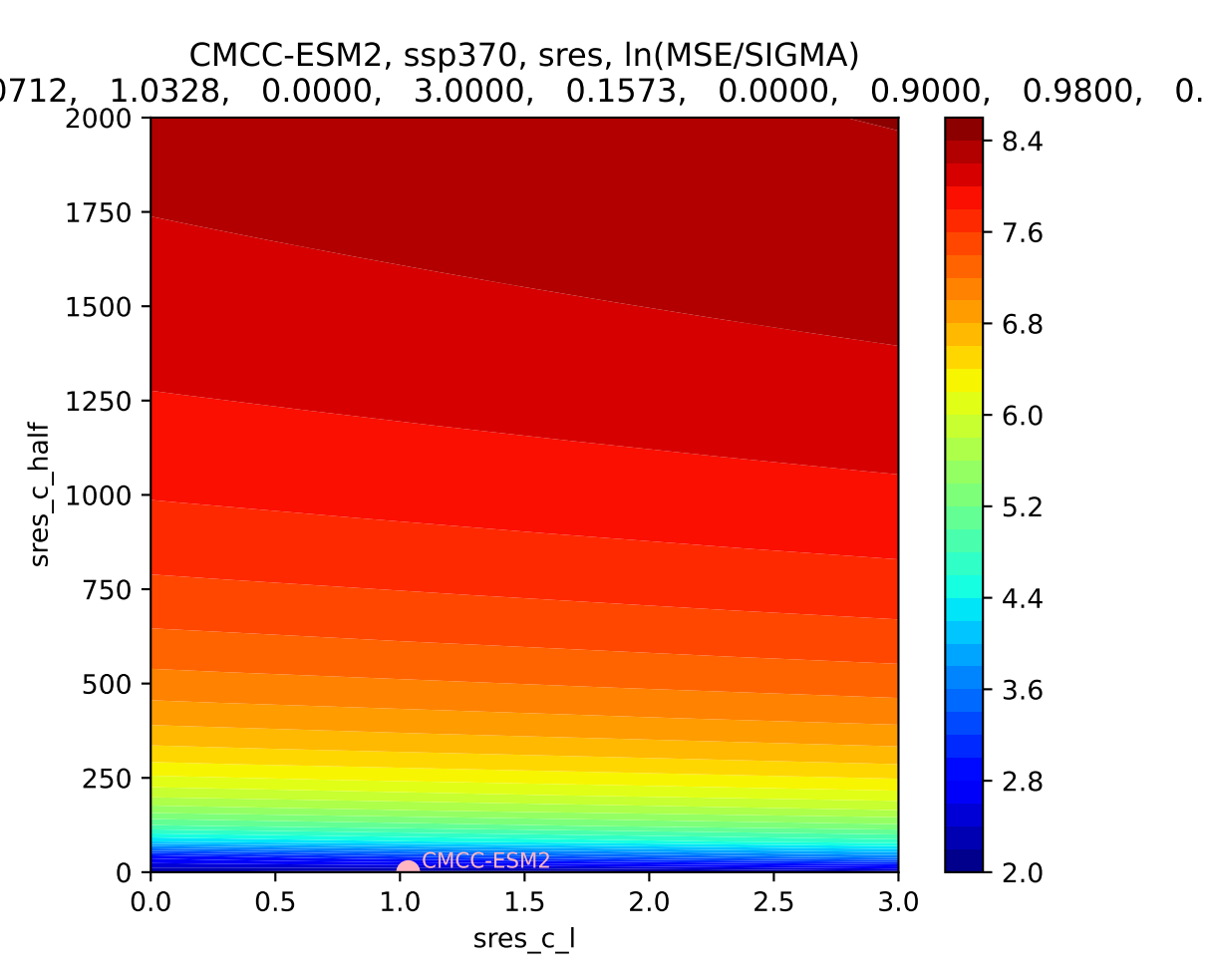

CMCC-ESM2, ssp370, sres
ESM
Fit
sres
ΔT

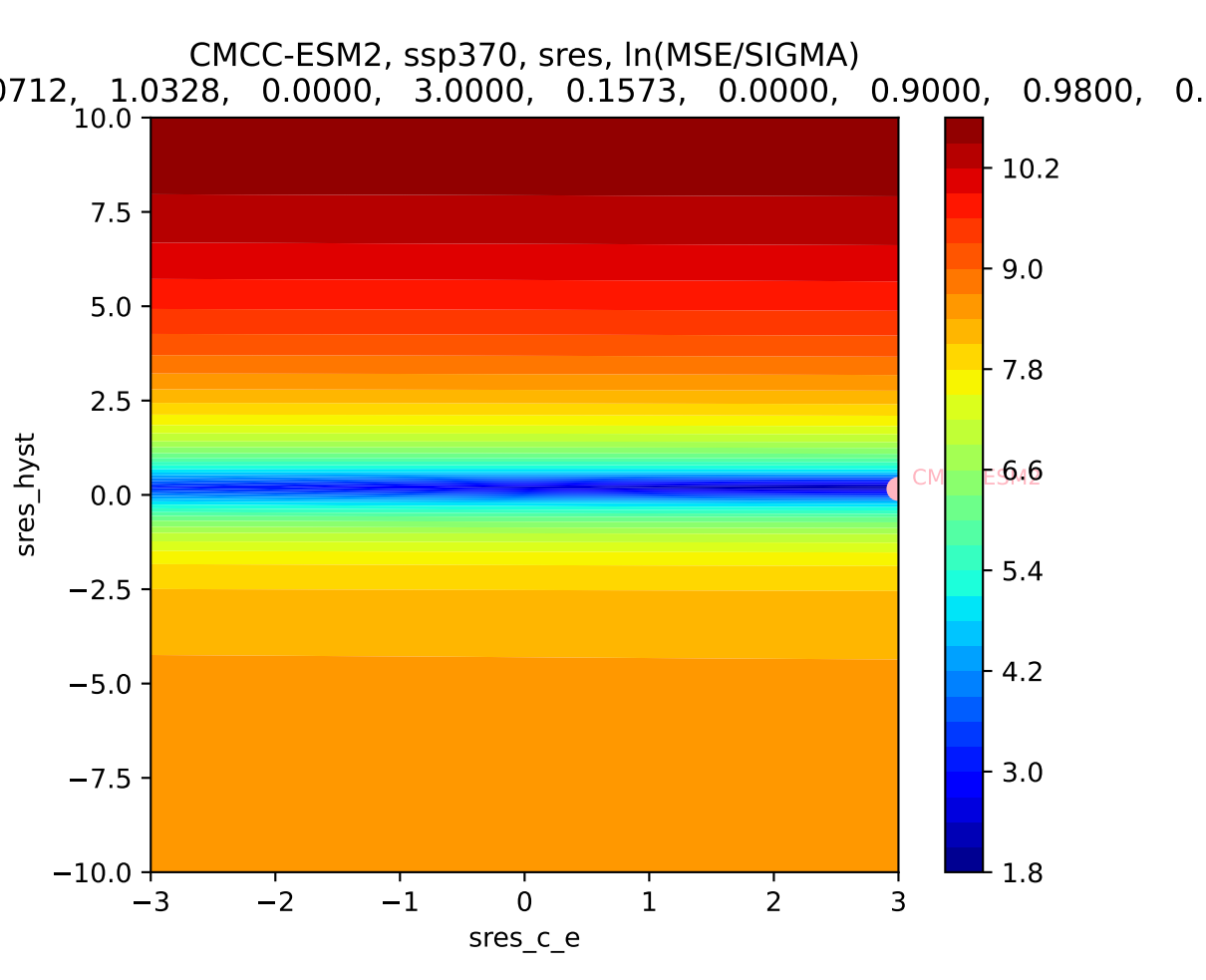

CMCC-ESM2, ssp370, sres
ESM-Fit
sres, ESM - FIT
ΔT

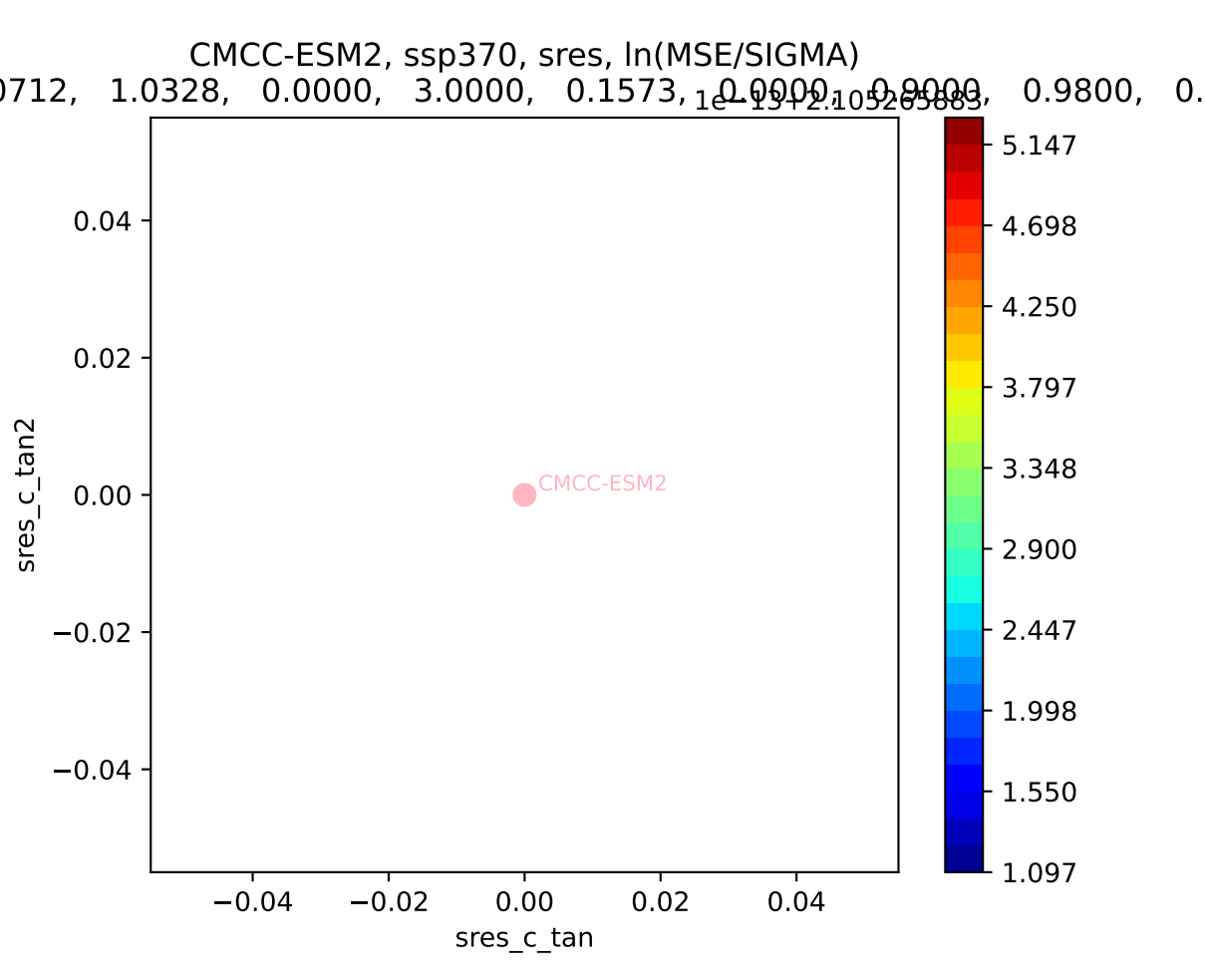

CMCC-ESM2, ssp370, sres
ESM
Fit
sres
c_atm

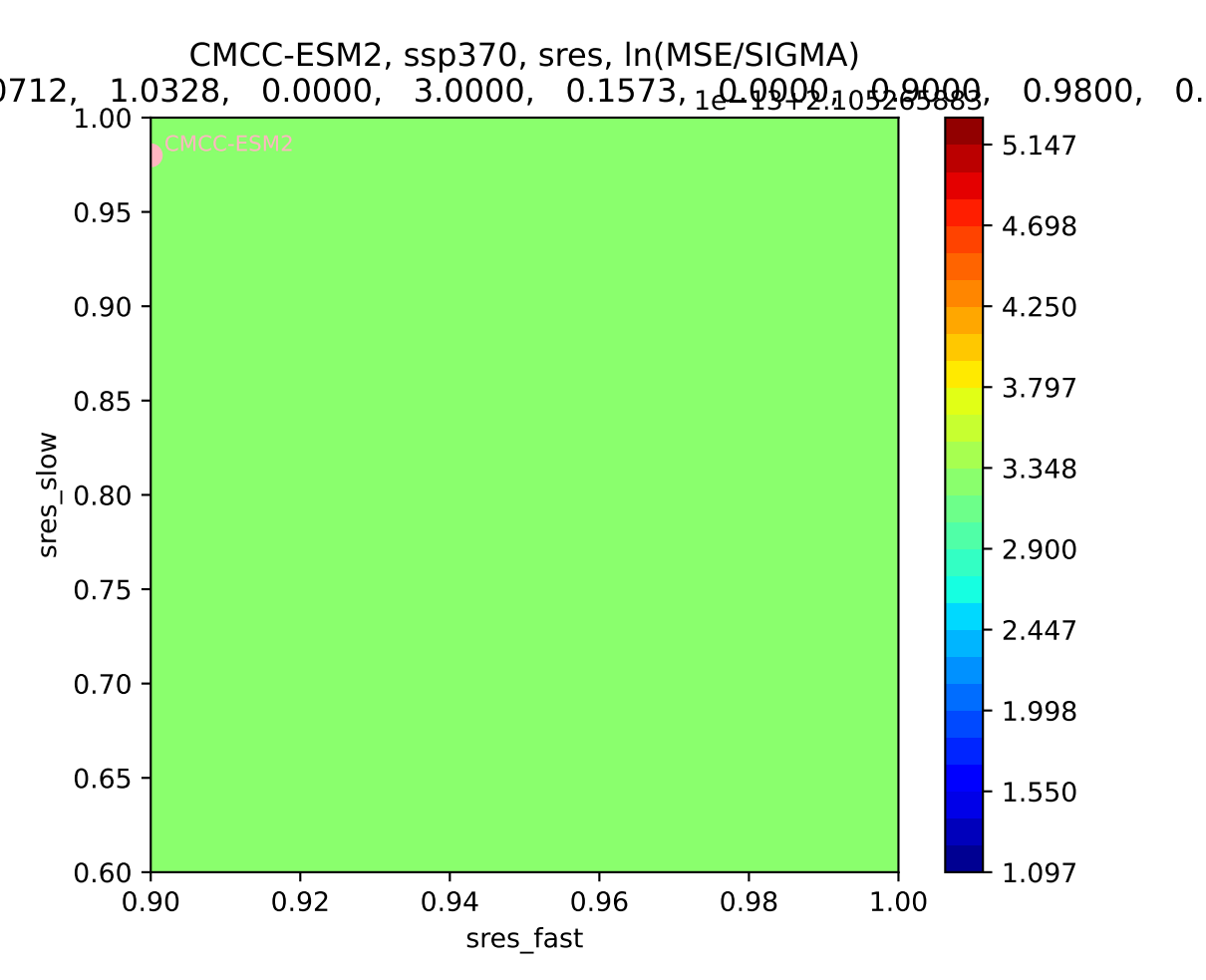

CMCC-ESM2, ssp370, sres
ESM-Fit
sres, ESM - FIT
c_atm

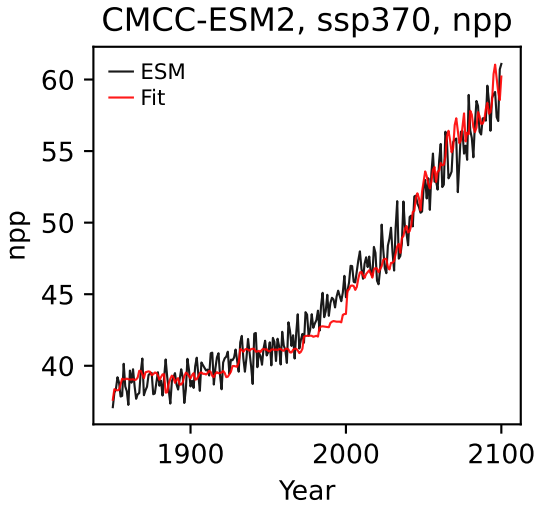

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0712, 1.0328, 0.0000, 3.0000, 0.1573, 0.0000, 0.9000, 0.9800, 0.
CMCC-ESM2
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7

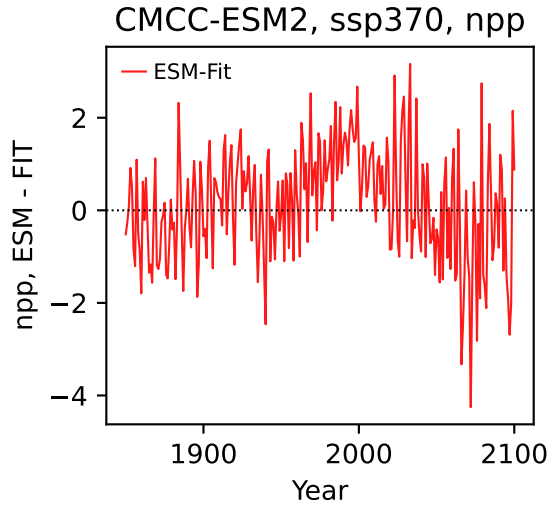

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0712, 1.0328, 0.0000, 3.0000, 0.1573, 0.0000, 0.9000, 0.9800, 0.
sres_c_half
sres_c_l
CMCC-ESM2
2000
1750
1500
1250
1000
750
500
250
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.4
7.6
6.8
6.0
5.2
4.4
3.6
2.8
2.0

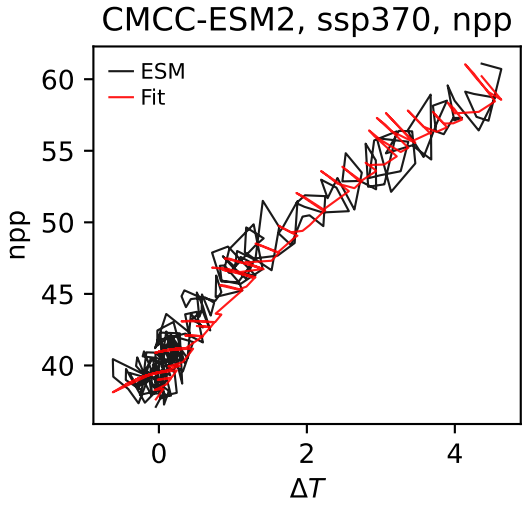

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0712, 1.0328, 0.0000, 3.0000, 0.1573, 0.0000, 0.9000, 0.9800, 0.
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8

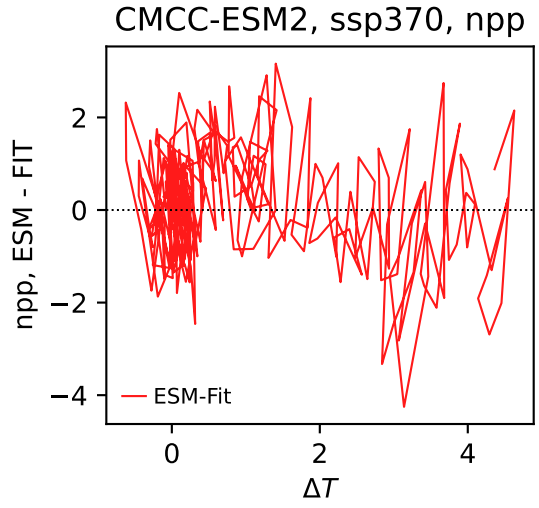

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0712, 1.0328, 0.0000, 3.0000, 0.1573, 0.0000, 0.9000, 0.9800, 0.
1e−15+2.105265883
CMCC-ESM2
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
5.147
4.698
4.250
3.797
3.348
2.900
2.447
1.998
1.550
1.097

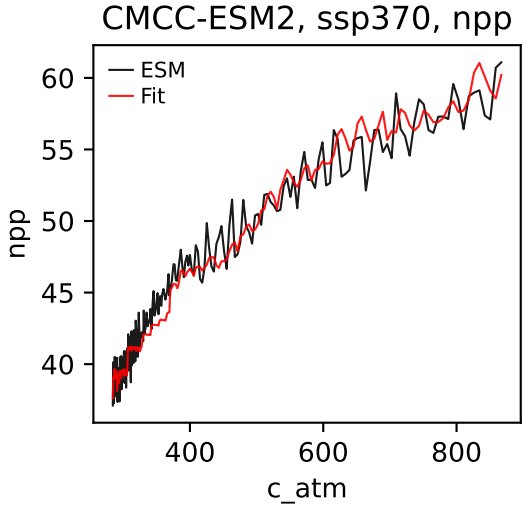

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0712, 1.0328, 0.0000, 3.0000, 0.1573, 0.0000, 0.9000, 0.9800, 0.
1e-13+2.105265883
CMCC-ESM2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
0.90
0.92
0.94
0.96
0.98
1.00
sres_fast
5.147
4.698
4.250
3.797
3.348
2.900
2.447
1.998
1.550
1.097

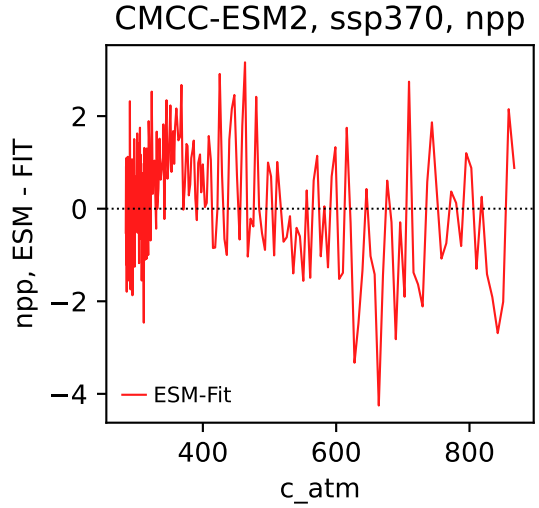

CMCC-ESM2, ssp370, npp
ESM
Fit
npp
Year

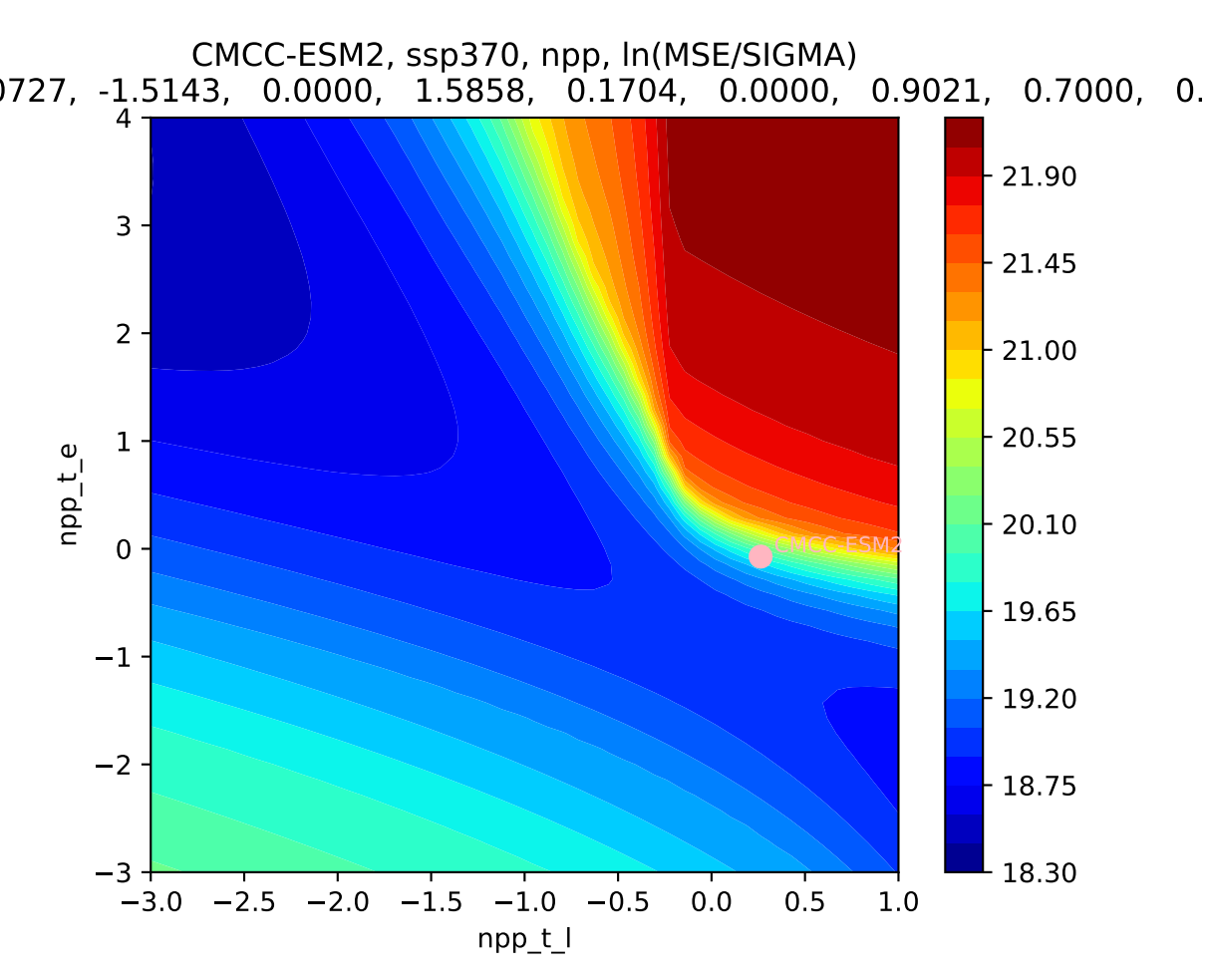

CMCC-ESM2, ssp370, npp
ESM-Fit
npp, ESM - FIT
Year

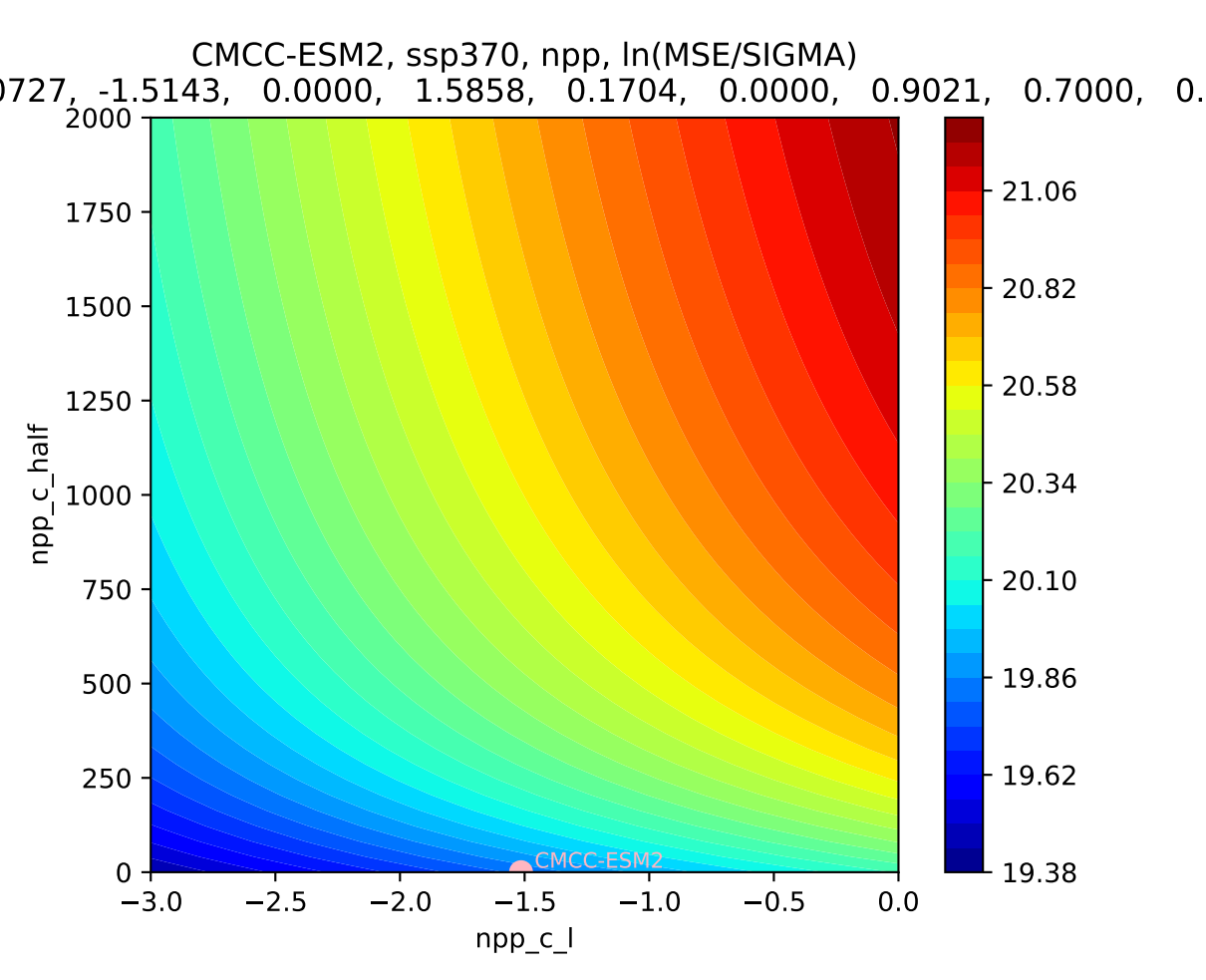

CMCC-ESM2, ssp370, npp
ESM
Fit
npp
ΔT

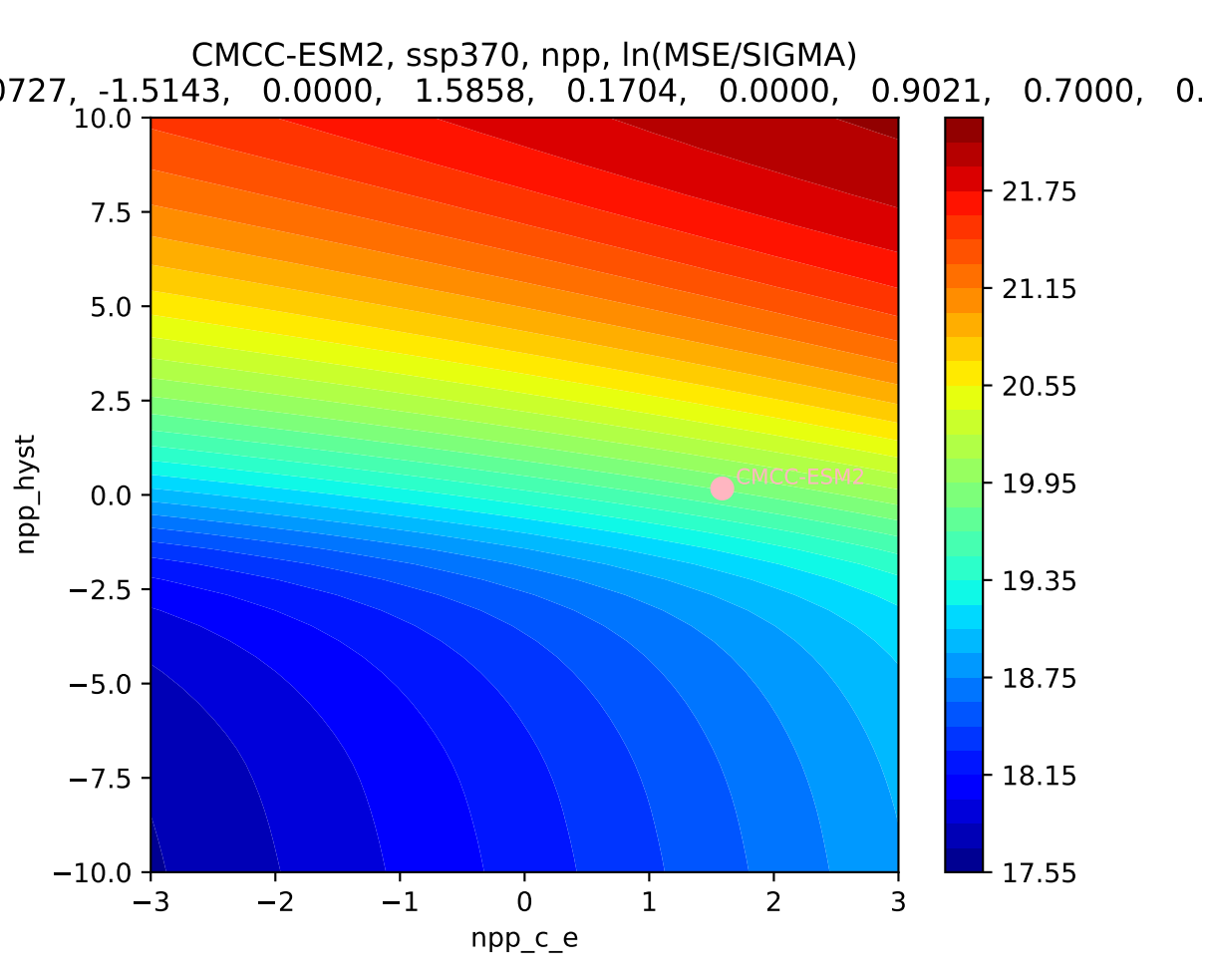

CMCC-ESM2, ssp370, npp
ESM-Fit
npp, ESM - FIT
ΔT


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)
0727, -1.5143, 0.0000, 1.5858, 0.1704, 0.0000, 0.9021, 0.7000, 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)
0727, -1.5143, 0.0000, 1.5858, 0.1704, 0.0000, 0.9021, 0.7000, 0.
npp_c_half
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
npp_c_l
CMCC-ESM2
21.06
20.82
20.58
20.34
20.10
19.86
19.62
19.38


CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
0727, -1.5143, 0.0000, 1.5858, 0.1704, 0.0000, 0.9021, 0.7000, 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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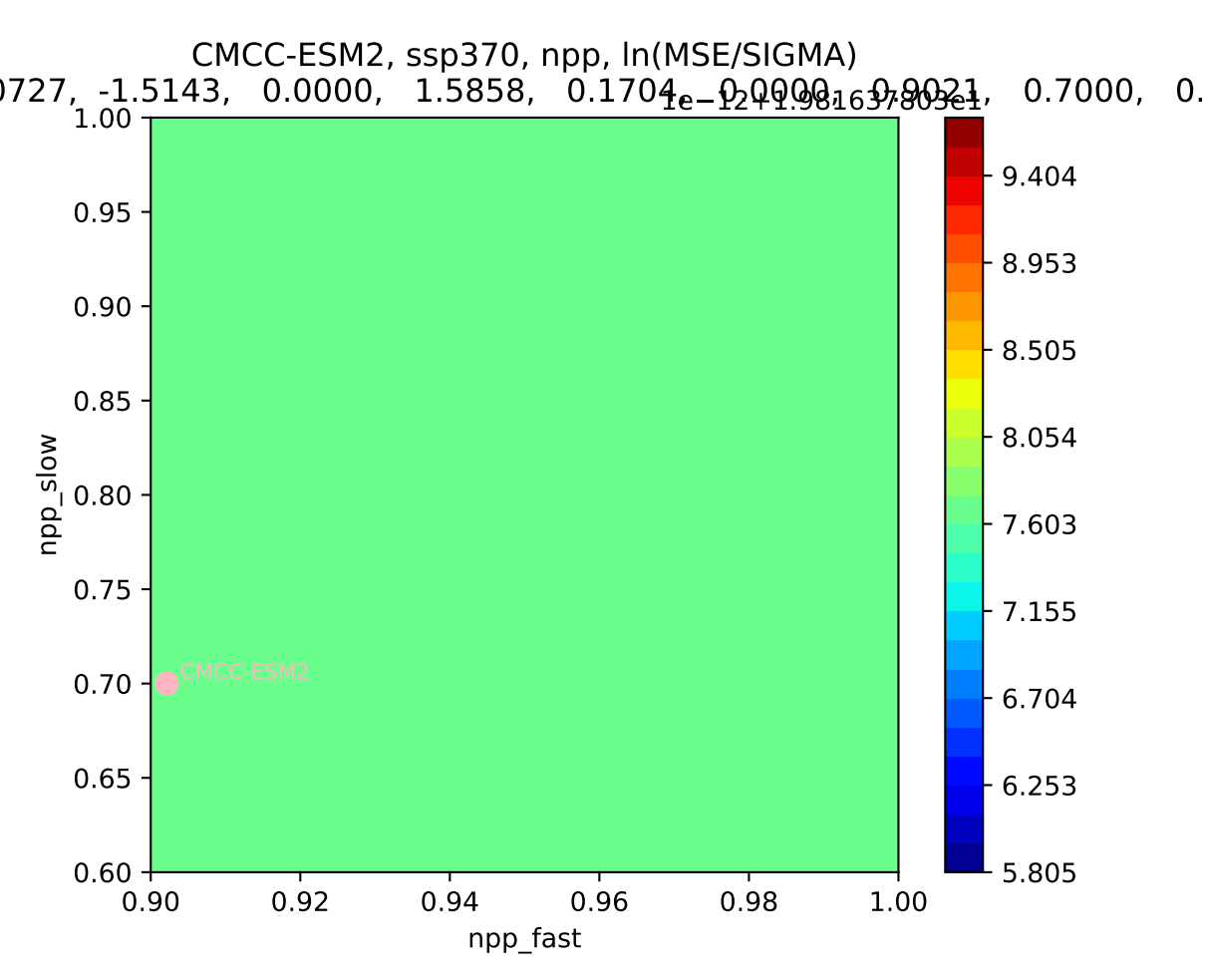
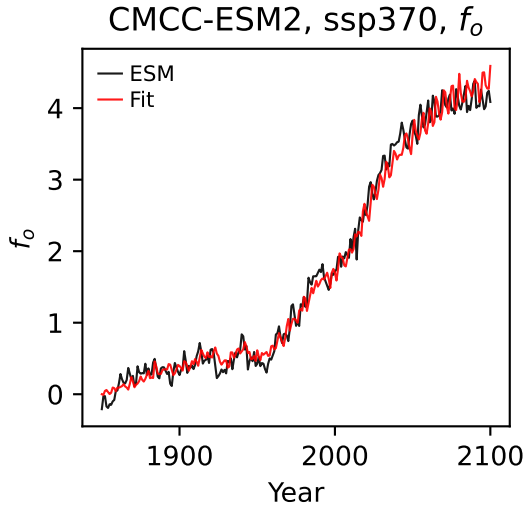
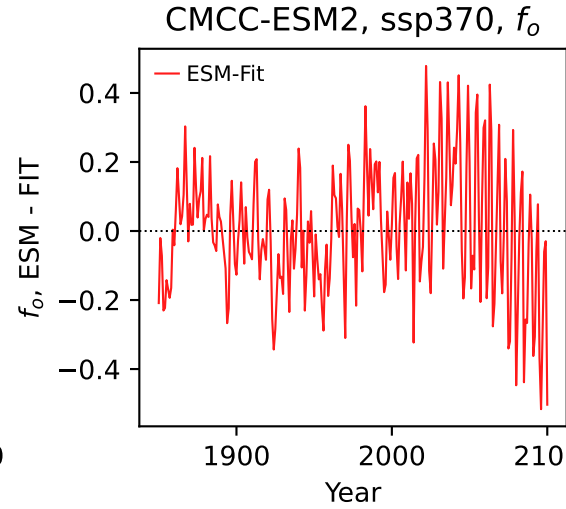
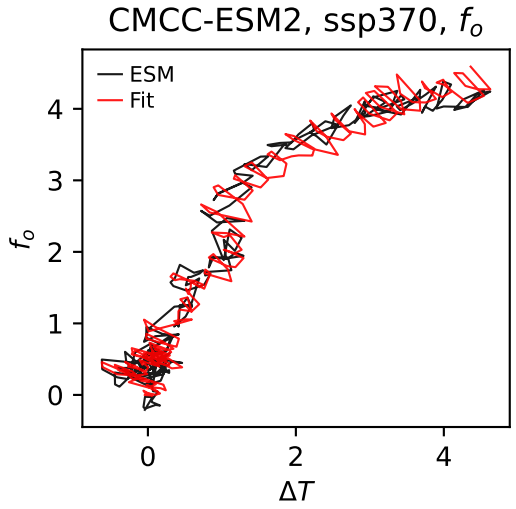
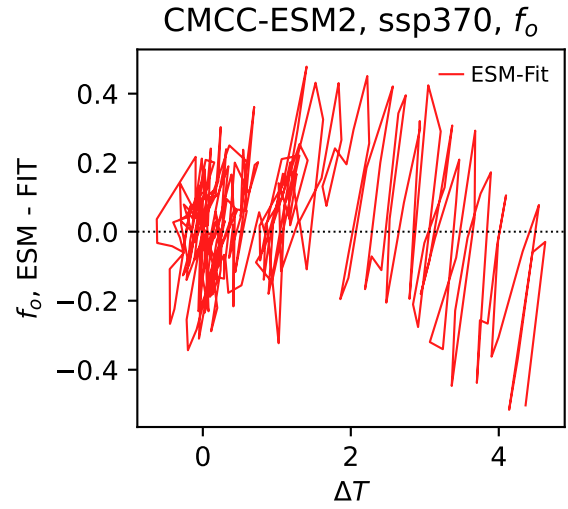
21.15
20.55
19.95
19.35
18.75
18.15
17.55

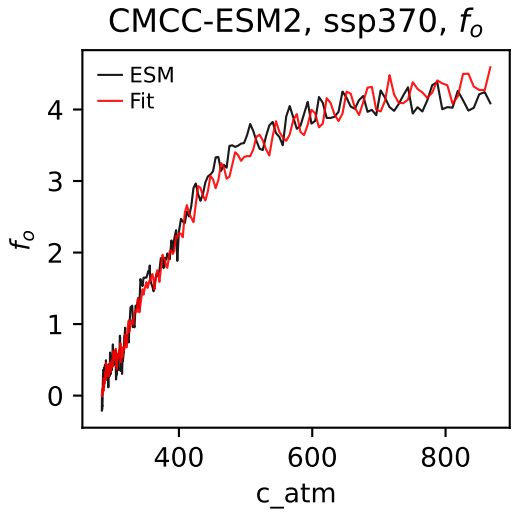

CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
0727, -1.5143, 0.0000, 1.5858, 0.1704, 0.0000, 0.9021, 0.7000, 0.
1e−12+1.98163780e1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
CMCC-ESM2
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
9.404
8.953
8.505
8.054
7.603
7.155
6.704
6.253
5.805

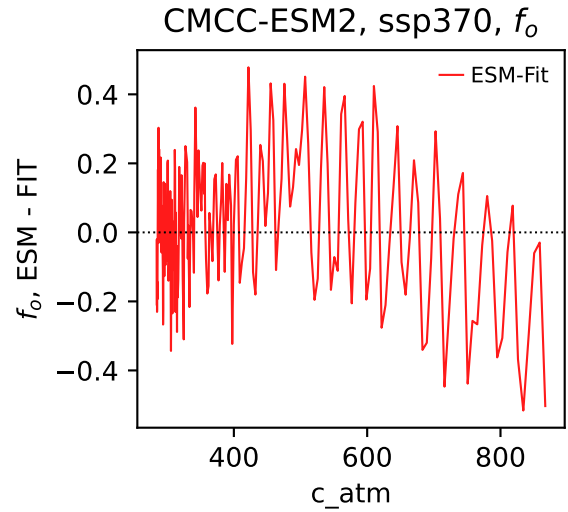

CMCC-ESM2, ssp370, f_o
ESM
Fit
f_o
Year

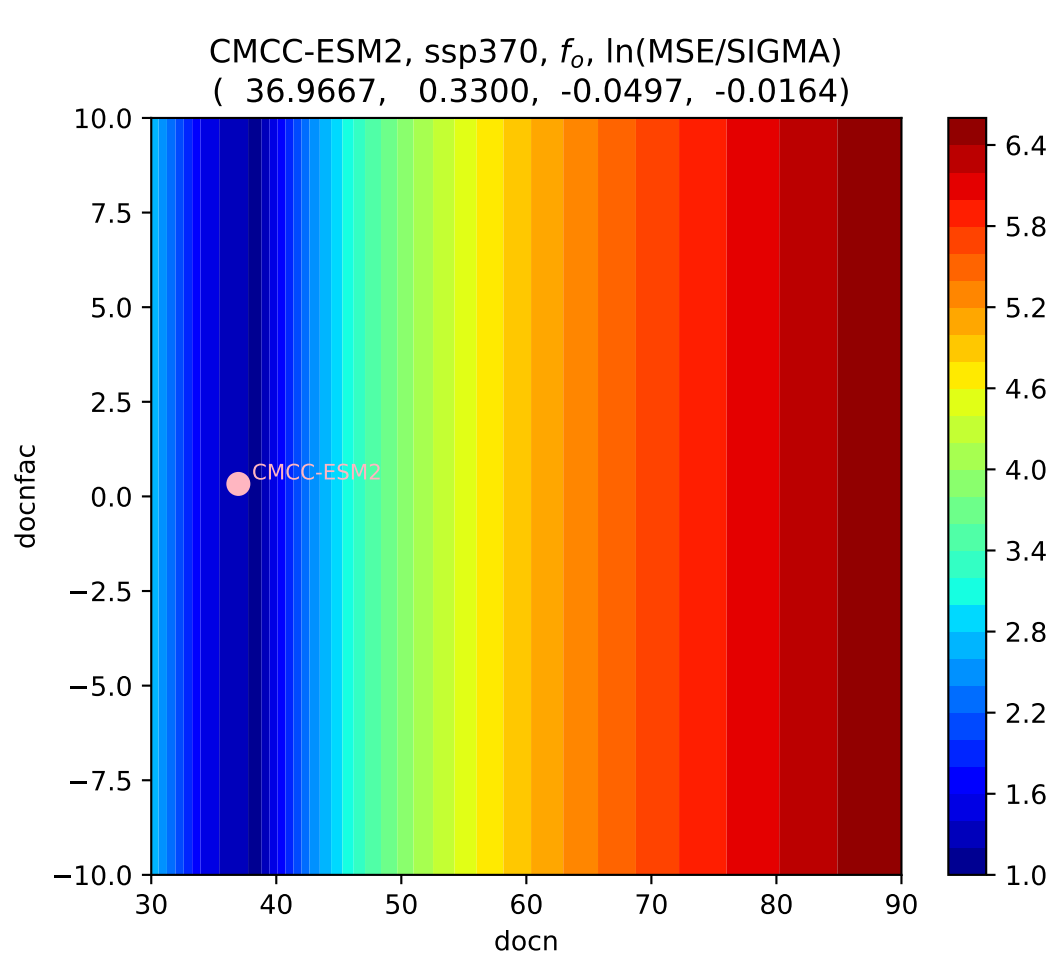

CMCC-ESM2, ssp370, f_o
ESM-Fit
f_o, ESM - FIT
Year

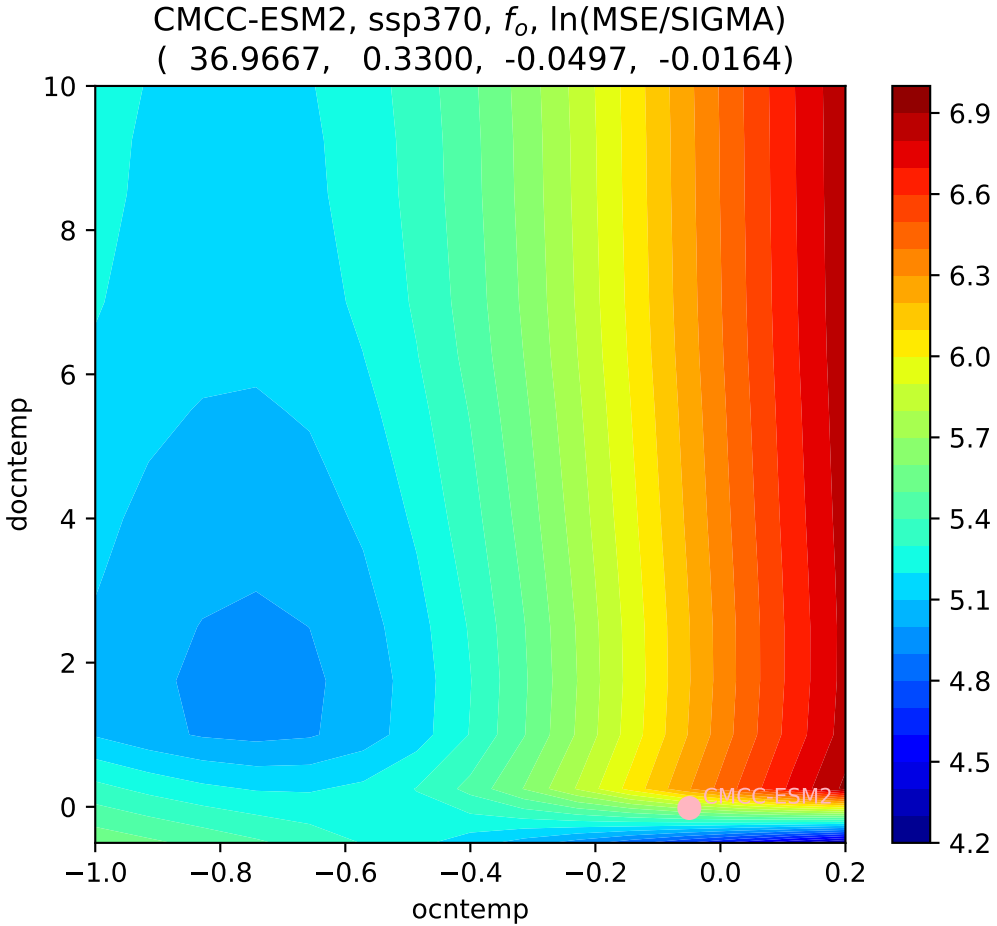

CMCC-ESM2, ssp370, f_o
ESM
Fit
f_o
ΔT


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)
(36.9667, 0.3300, -0.0497, -0.0164)
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
6.4
5.8
5.2
4.6
4.0
3.4
2.8
2.2
1.6
1.0


CMCC-ESM2, ssp370, f_o, ln(MSE/SIGMA)
(36.9667, 0.3300, -0.0497, -0.0164)
CMCC-ESM2
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
6.9
6.6
6.3
6.0
5.7
5.4
5.1
4.8
4.5
4.2