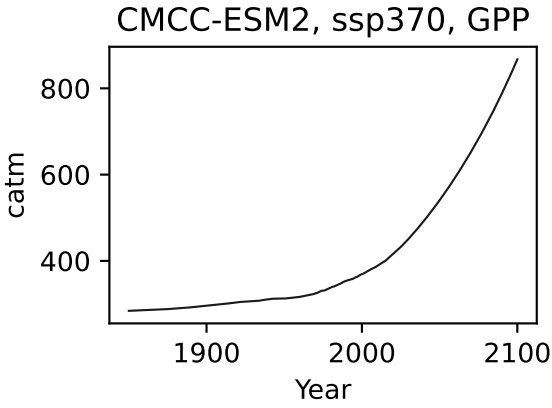
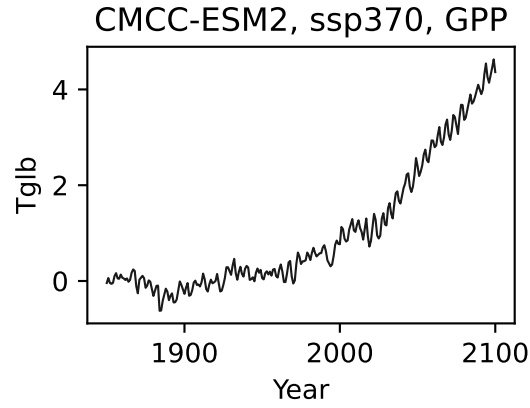
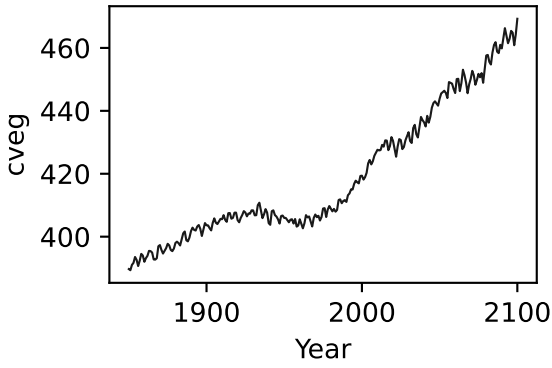
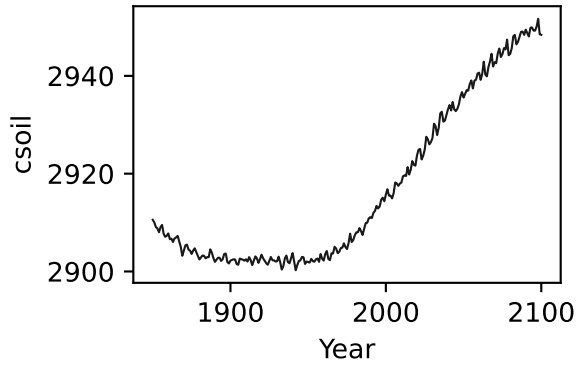
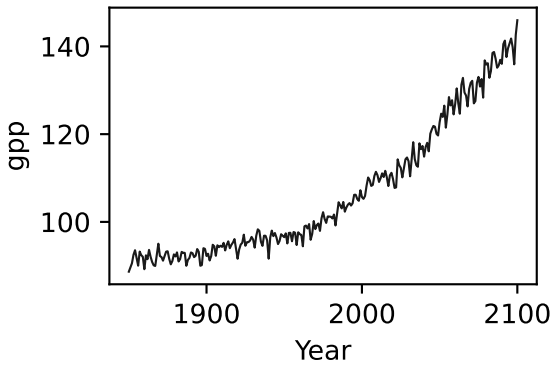
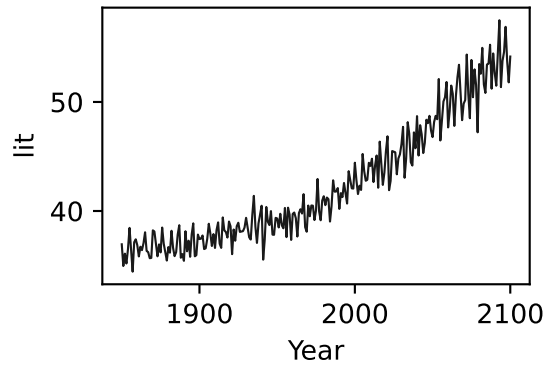

CMCC-ESM2, ssp370, GPP
catm
800
600
400
1900
2000
2100
Year

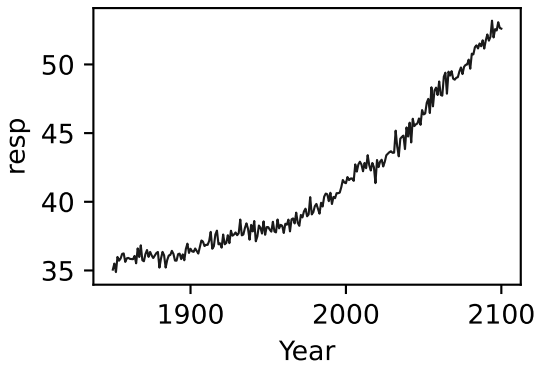

CMCC-ESM2, ssp370, GPP
Tglb
4
2
0
1900
2000
2100
Year

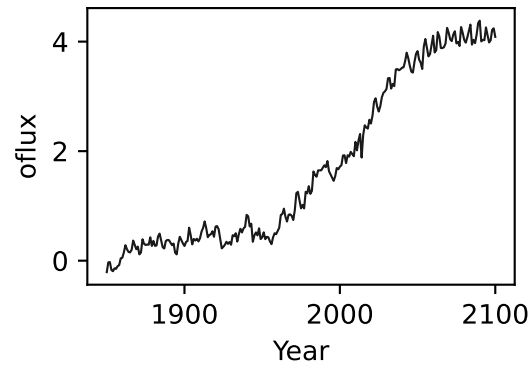

cveg
460
440
420
400
1900
2000
2100
Year

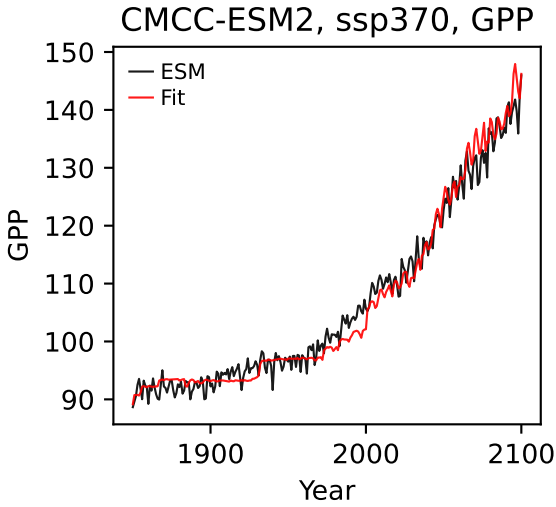

csoil
2940
2920
2900
1900
2000
2100
Year

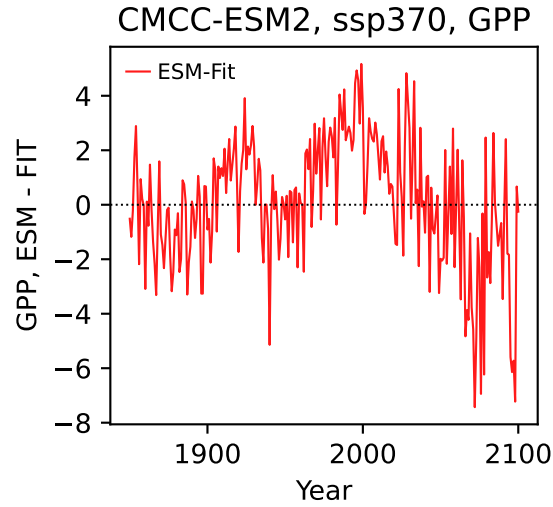

gpp
140
120
100
1900
2000
2100
Year

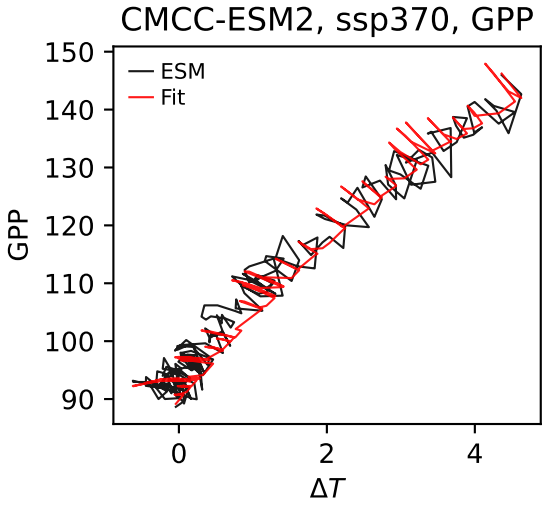

lit
50
40
1900
2000
2100
Year

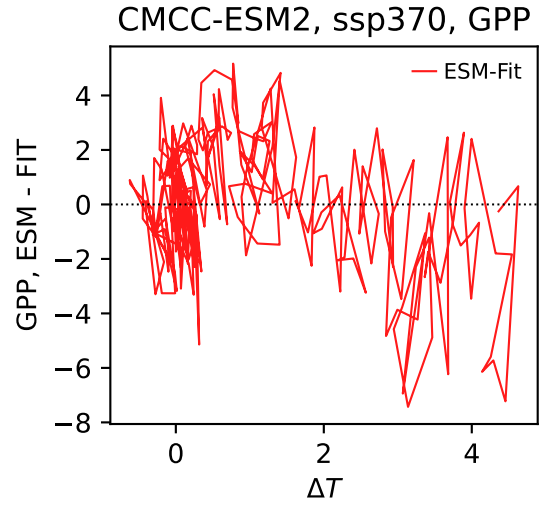

resp
50
45
40
35
1900
2000
2100
Year

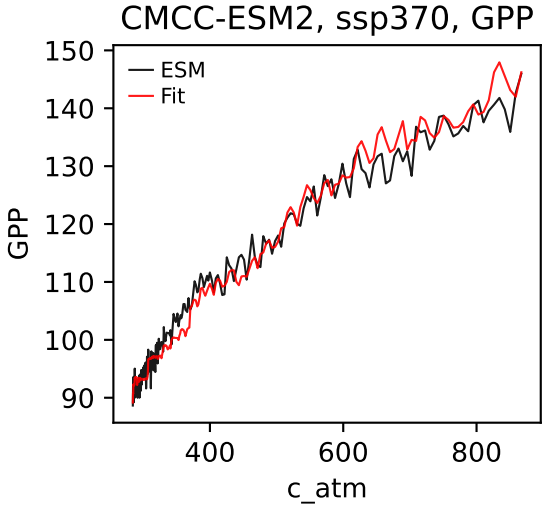

oflux
4
2
0
1900
2000
2100
Year

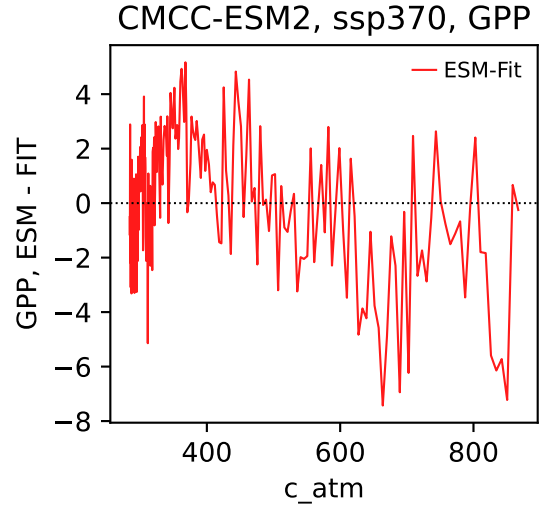

CMCC-ESM2, ssp370, GPP
ESM
Fit
GPP
Year

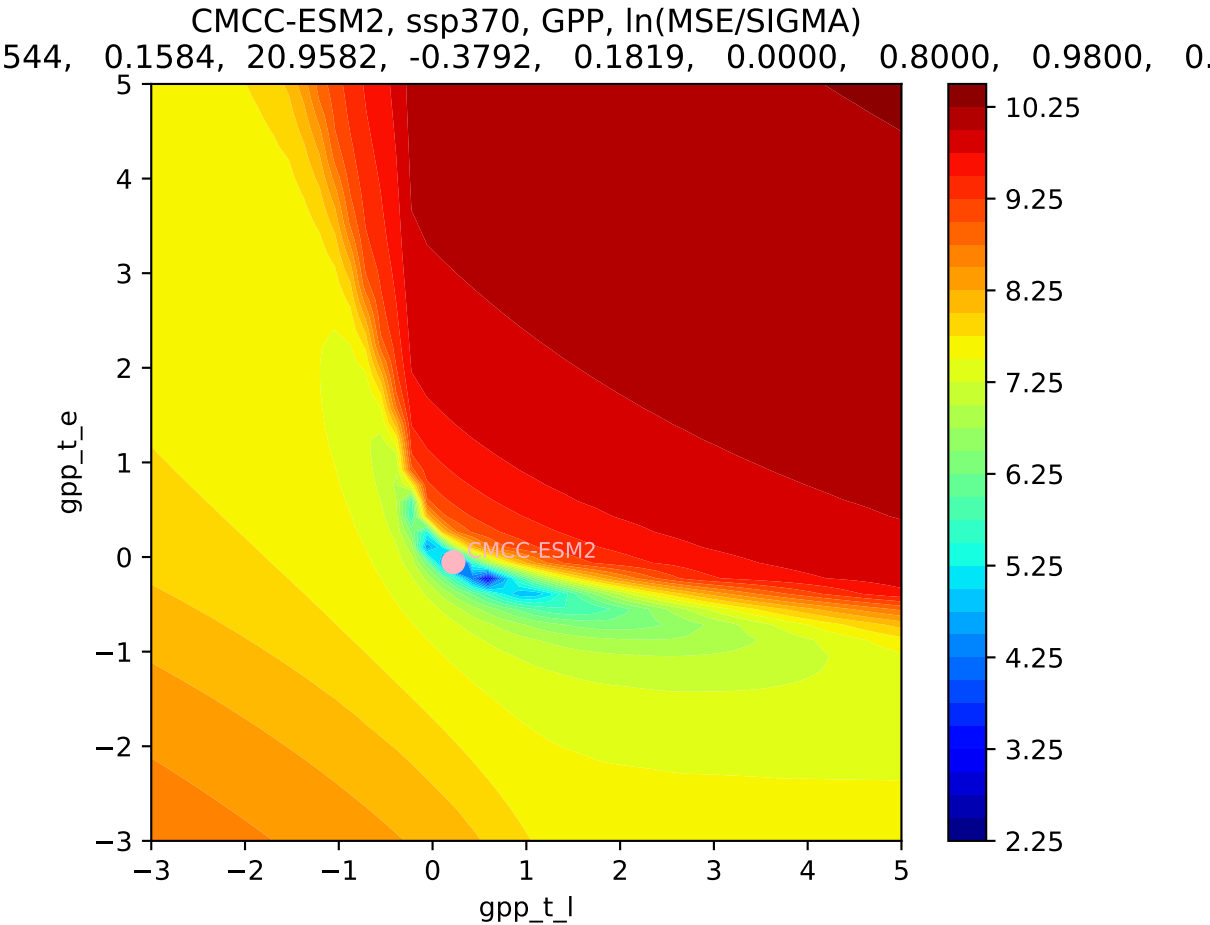

CMCC-ESM2, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
Year

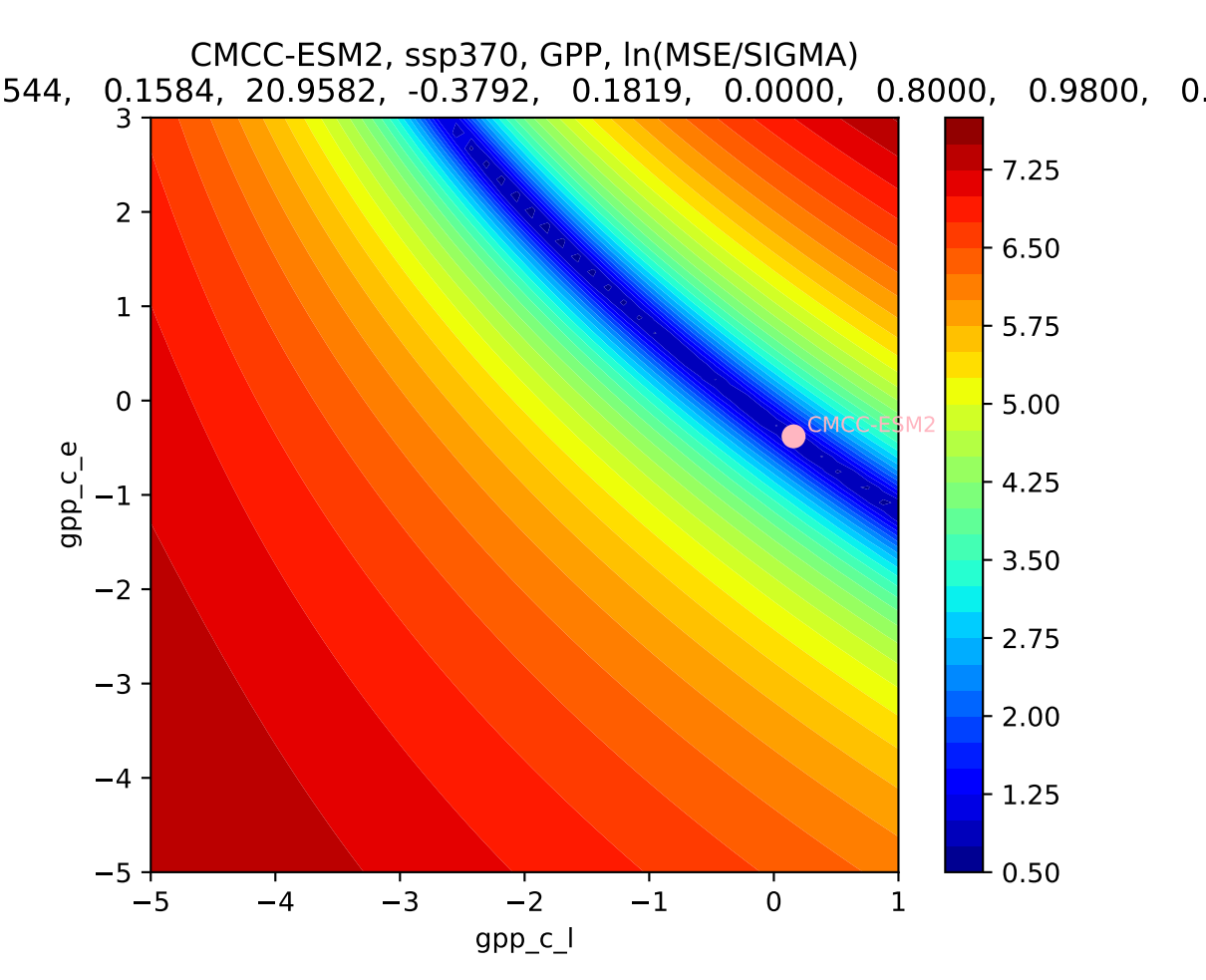

CMCC-ESM2, ssp370, GPP
ESM
Fit
GPP
ΔT

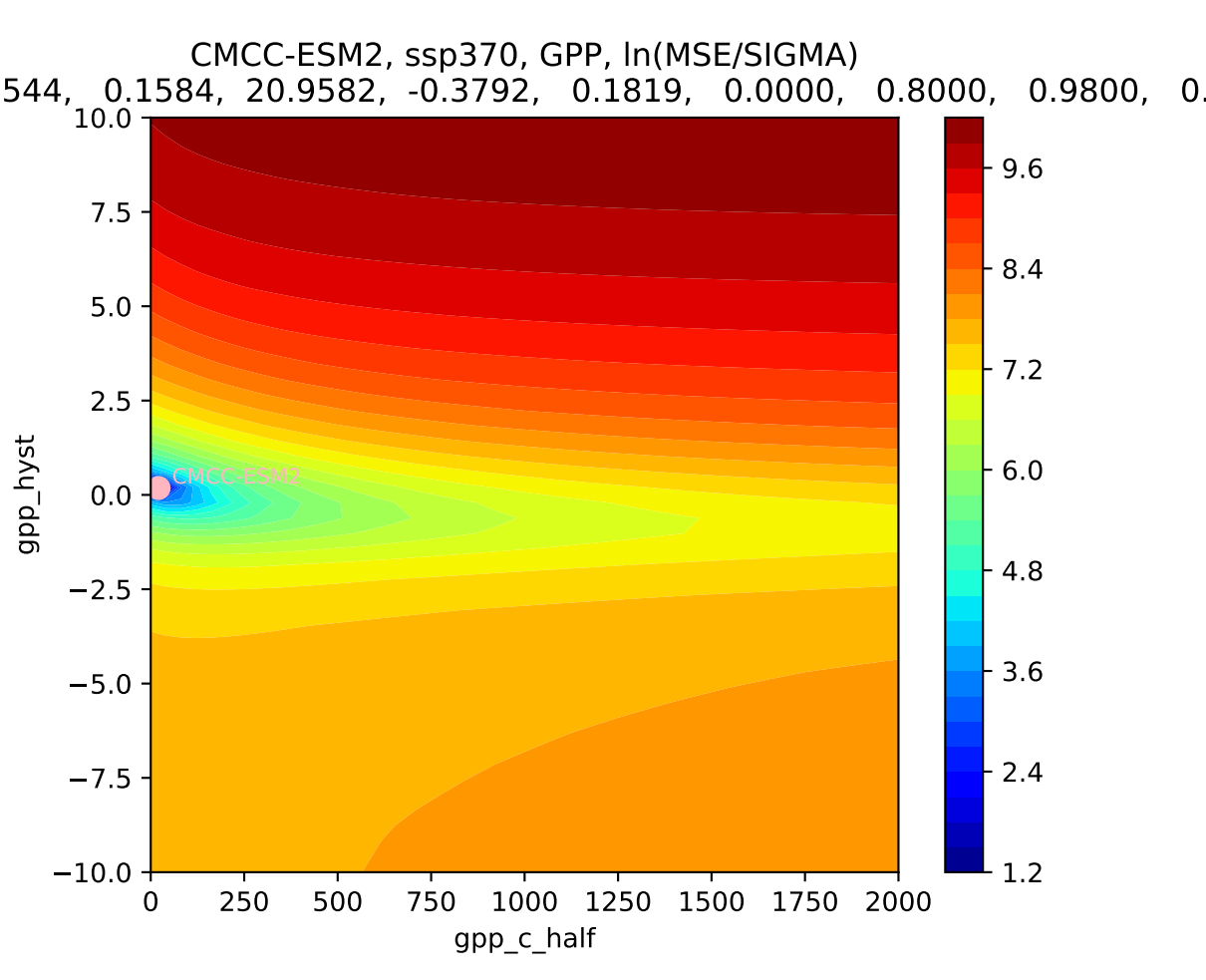

CMCC-ESM2, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

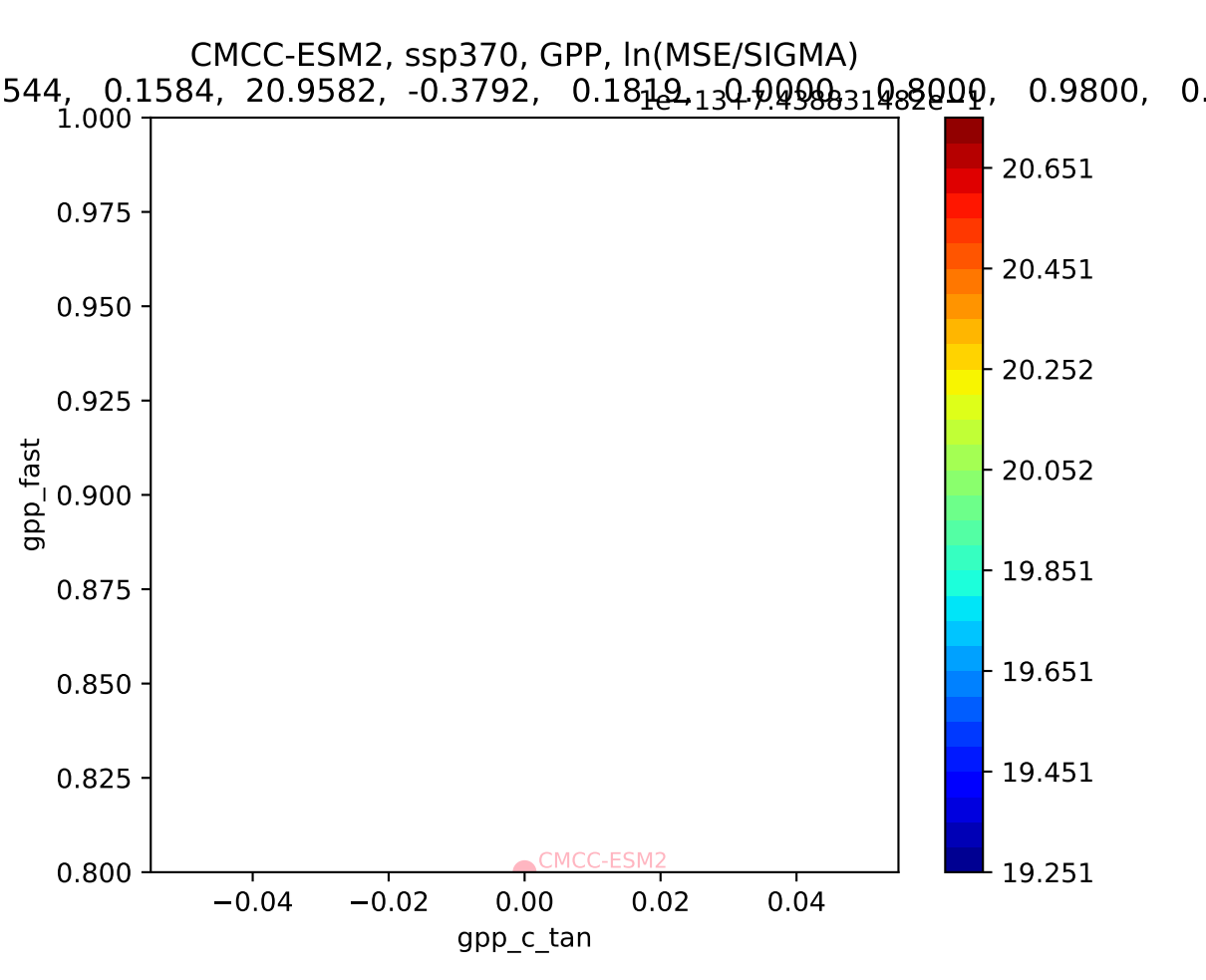

CMCC-ESM2, ssp370, GPP
ESM
Fit
GPP
c_atm

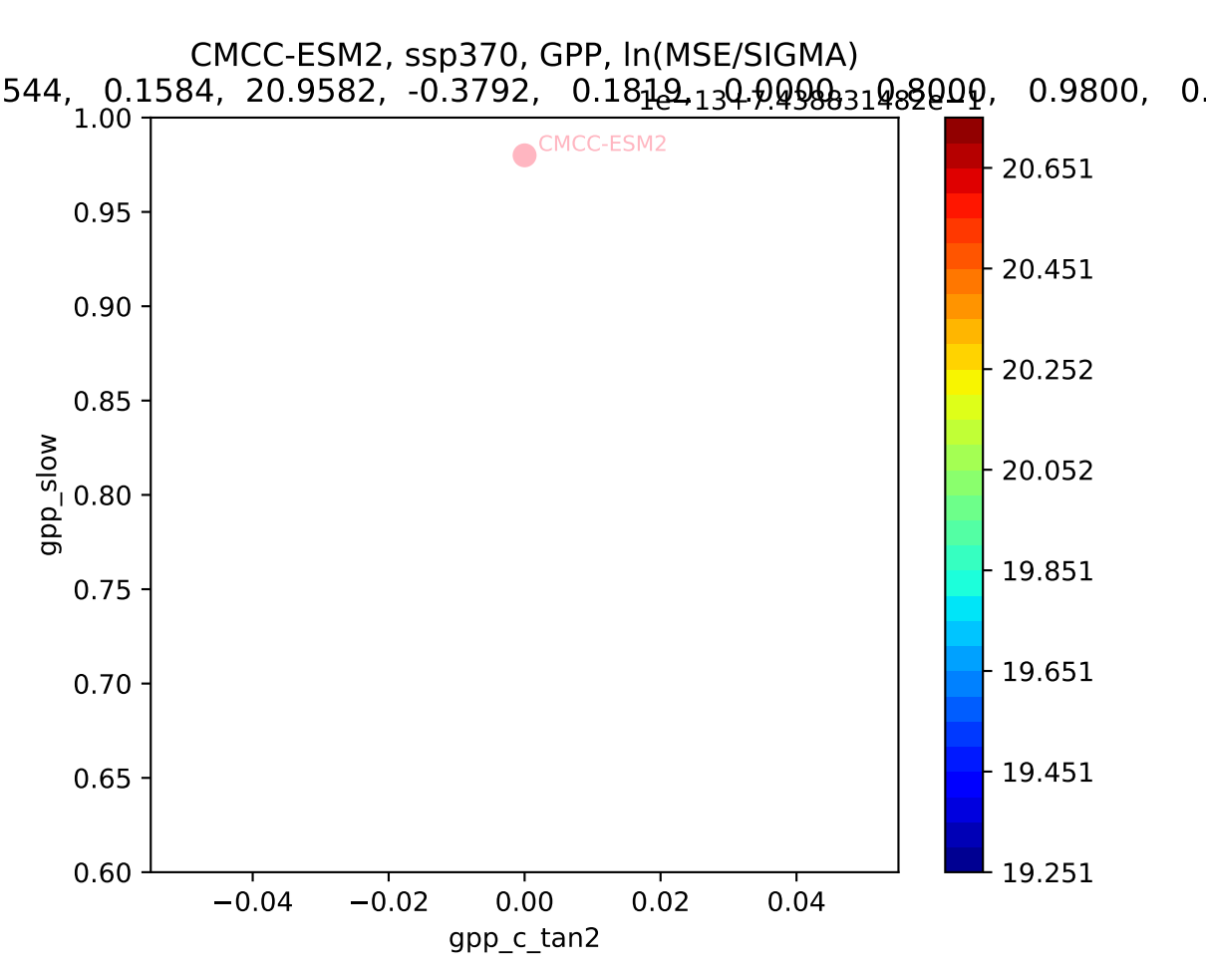

CMCC-ESM2, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

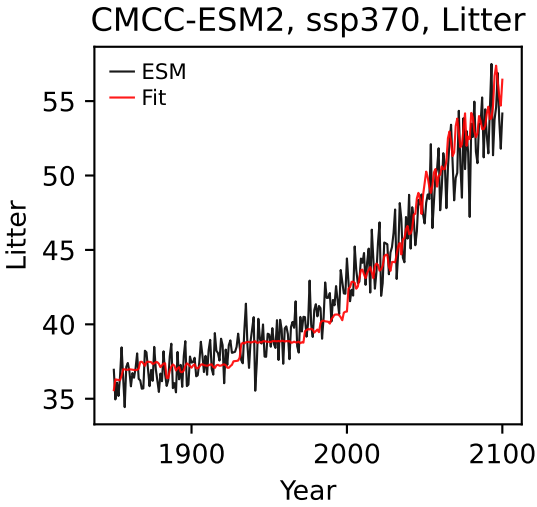

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
544, 0.1584, 20.9582, -0.3792, 0.1819, 0.0000, 0.8000, 0.9800, 0.
CMCC-ESM2
gpp_t_e
gpp_t_l
10.25
9.25
8.25
7.25
6.25
5.25
4.25
3.25
2.25

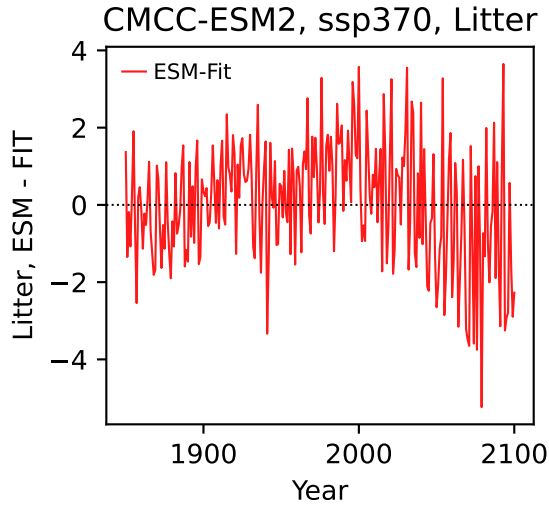

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
544, 0.1584, 20.9582, -0.3792, 0.1819, 0.0000, 0.8000, 0.9800, 0.
CMCC-ESM2
gpp_c_e
gpp_c_l
3
2
1
0
−1
−2
−3
−4
−5
−5
−4
−3
−2
−1
0
1
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00
1.25
0.50

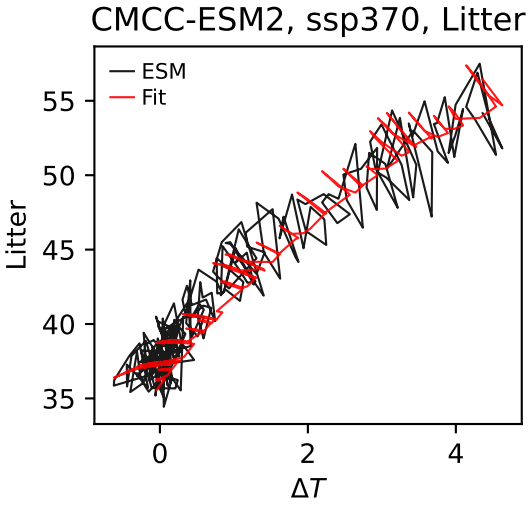

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
544, 0.1584, 20.9582, -0.3792, 0.1819, 0.0000, 0.8000, 0.9800, 0.
CMCC-ESM2
gpp_hyst
gpp_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

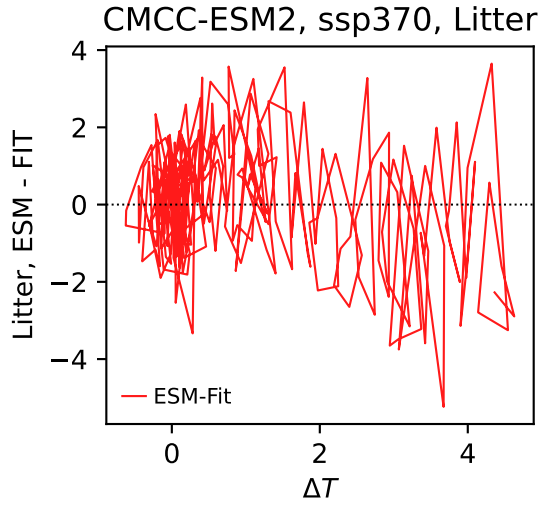

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
544, 0.1584, 20.9582, -0.3792, 0.1819, 0.0000, 0.8000, 0.9800, 0.
1e+13+7.438831482e-1
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
gpp_fast
−0.04
−0.02
0.00
0.02
0.04
gpp_c_tan
20.651
20.451
20.252
20.052
19.851
19.651
19.451
19.251
CMCC-ESM2

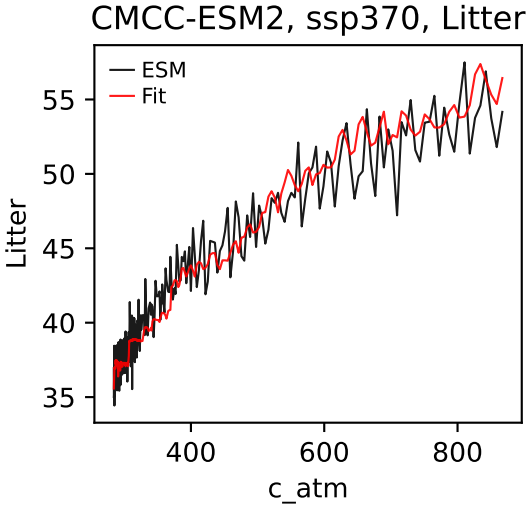

CMCC-ESM2, ssp370, GPP, ln(MSE/SIGMA)
544, 0.1584, 20.9582, -0.3792, 0.1819, 0.0000, 0.8000, 0.9800, 0.
1e+13+7.438831482e-1
CMCC-ESM2
gpp_slow
gpp_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
20.651
20.451
20.252
20.052
19.851
19.651
19.451
19.251

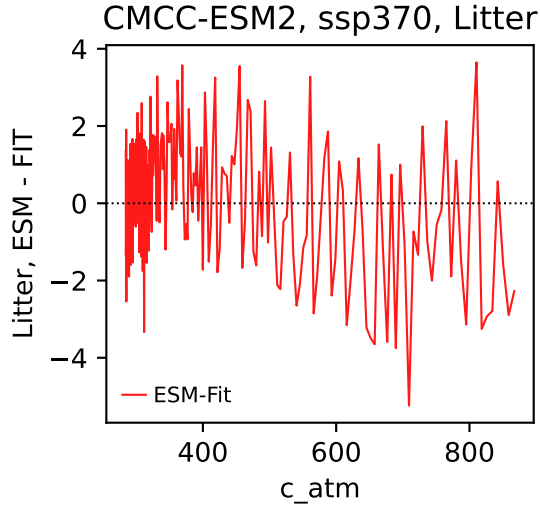

CMCC-ESM2, ssp370, Litter
ESM
Fit
Litter
Year

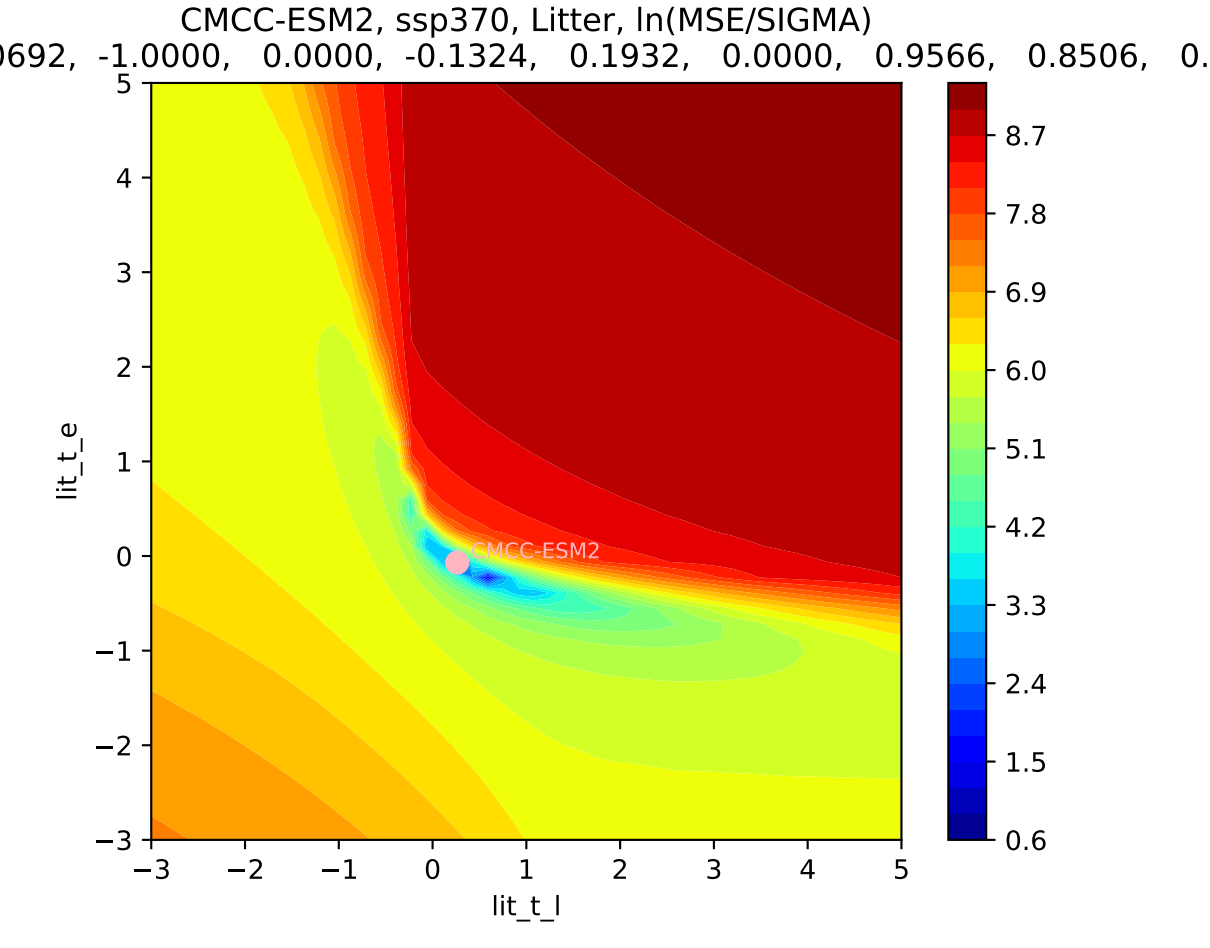

CMCC-ESM2, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
Year

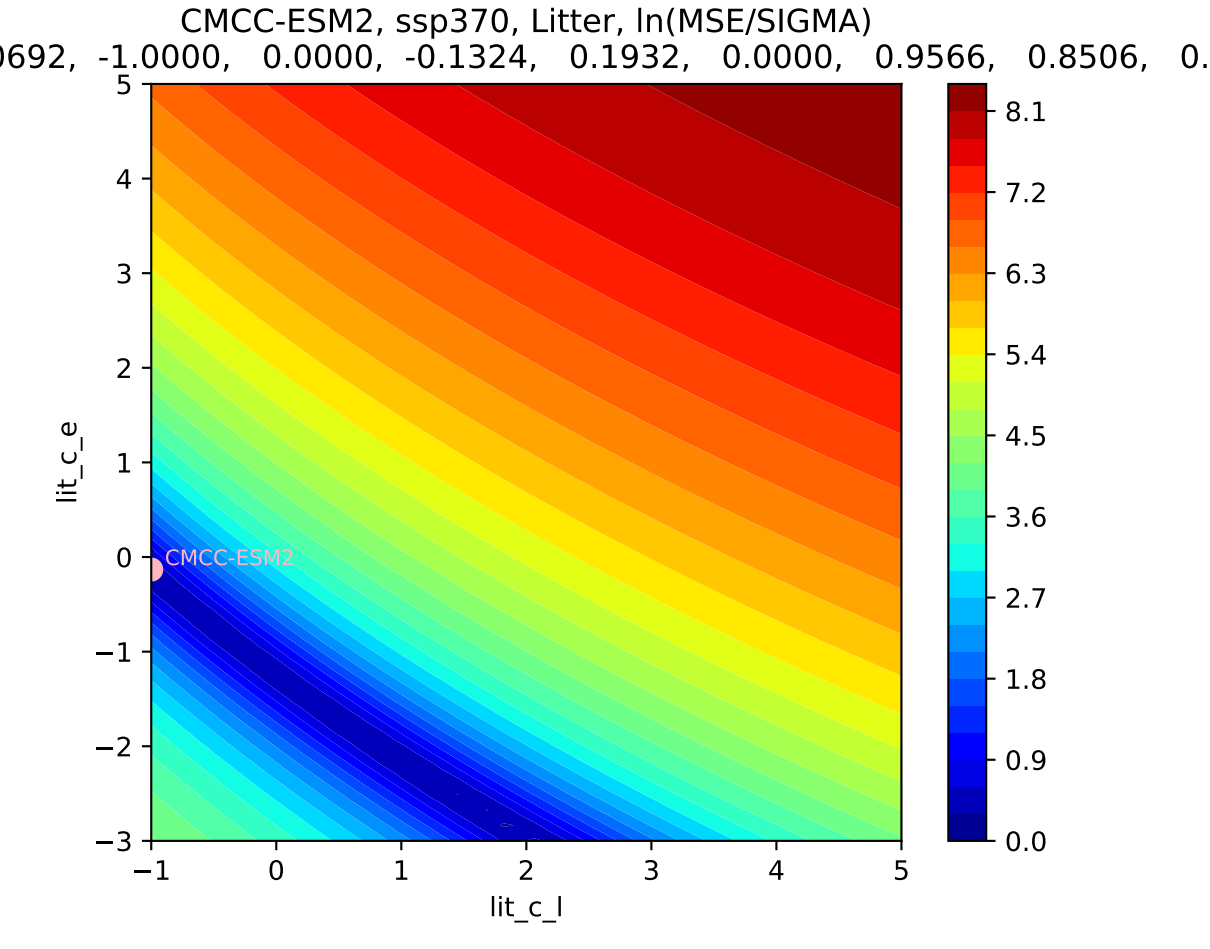

CMCC-ESM2, ssp370, Litter
ESM
Fit
Litter
ΔT

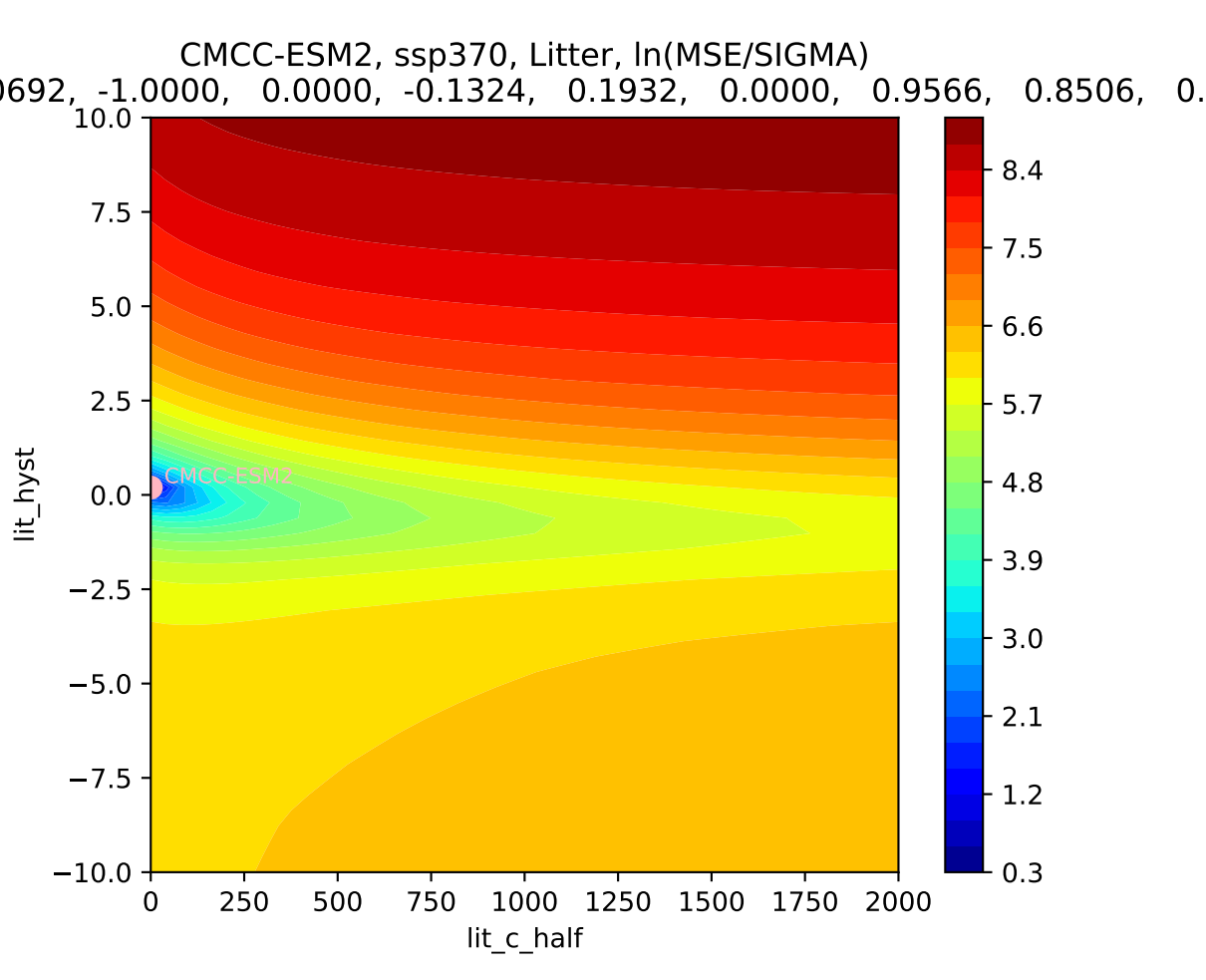

CMCC-ESM2, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

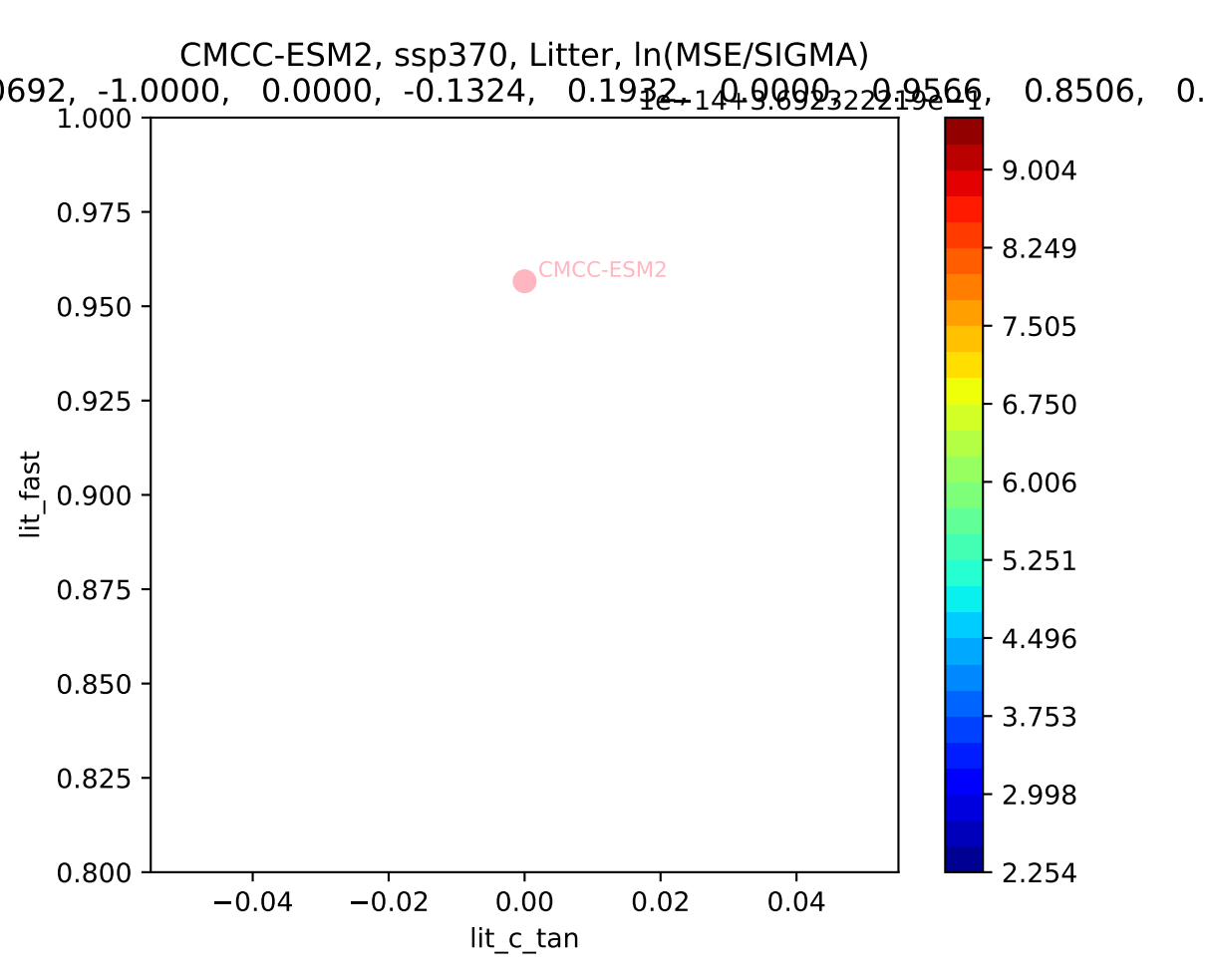

CMCC-ESM2, ssp370, Litter
ESM
Fit
Litter
c_atm

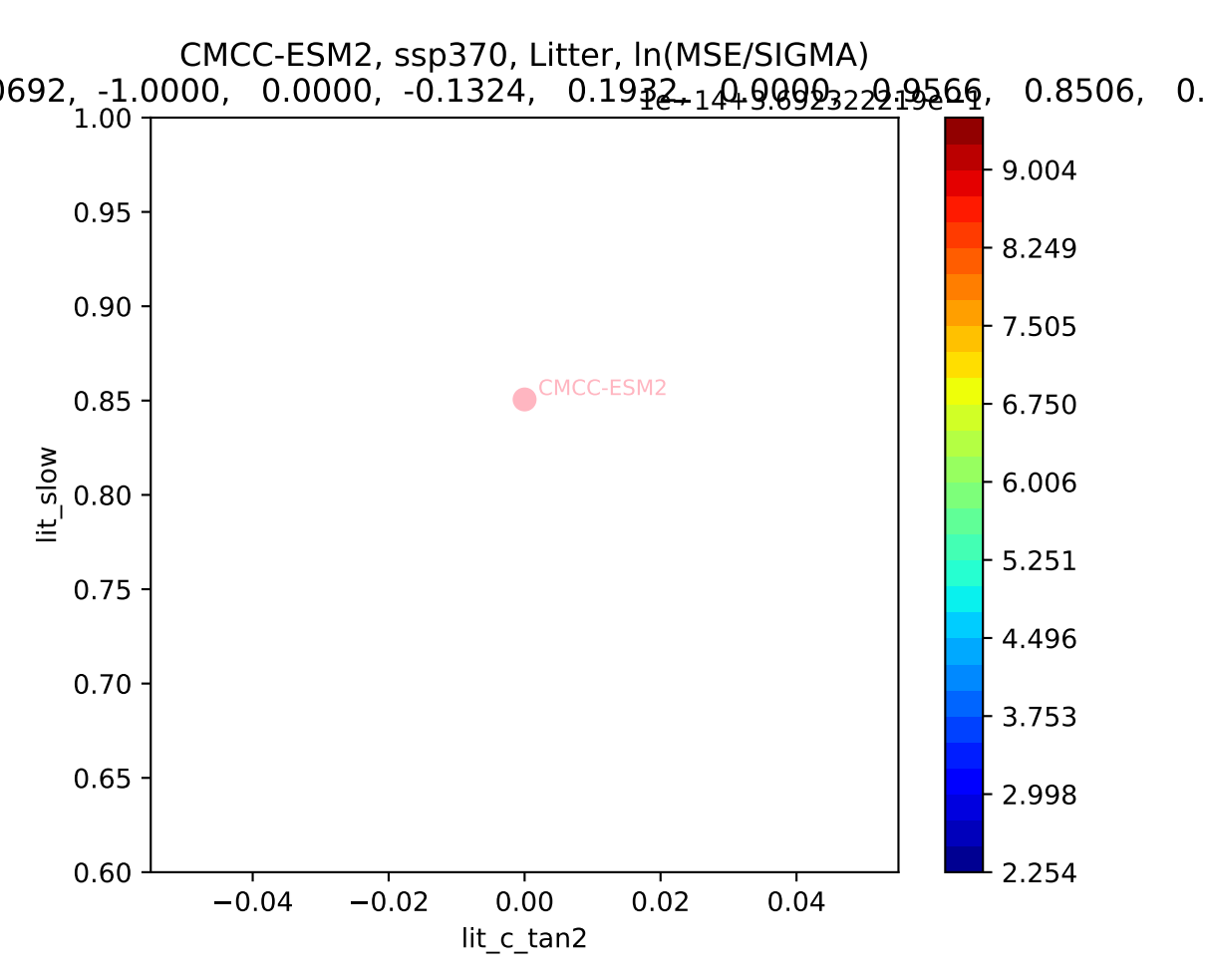

CMCC-ESM2, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

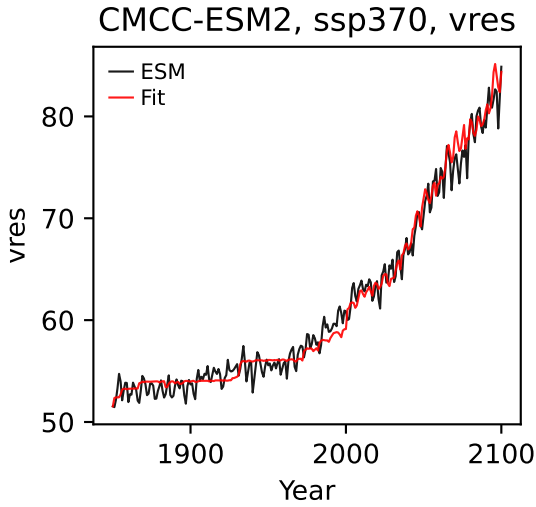

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9566, 0.8506, 0.
CMCC-ESM2
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5
0.6

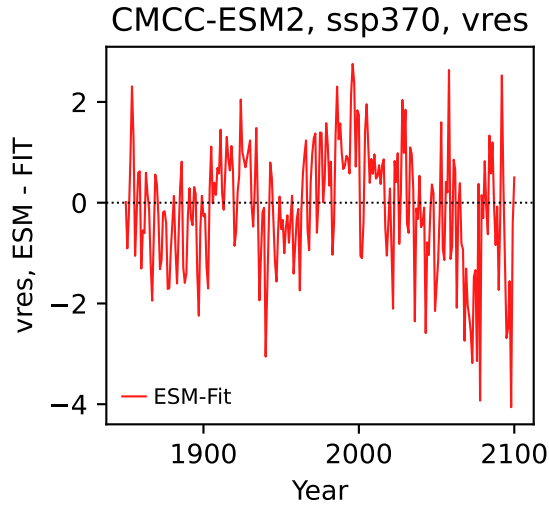

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9566, 0.8506, 0.
lit_c_e
lit_c_l
CMCC-ESM2
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8
0.9
0.0

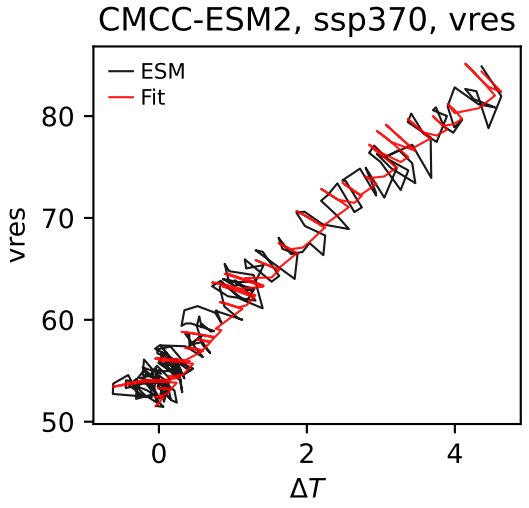

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9566, 0.8506, 0.
CMCC-ESM2
lit_hyst
lit_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2
0.3

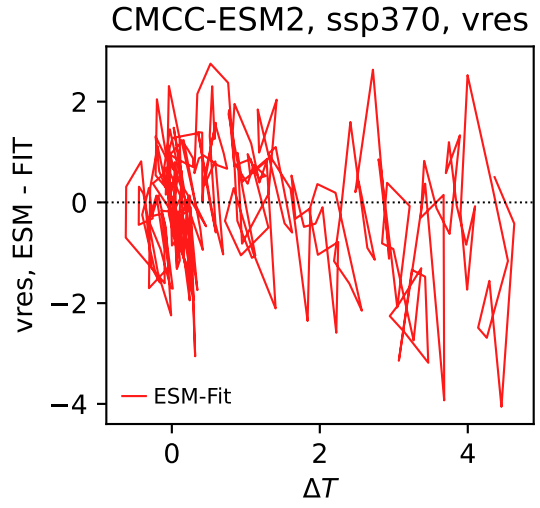

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9566, 0.8506, 0.
1e-14+3.692322219e-1
CMCC-ESM2
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
lit_fast
−0.04
−0.02
0.00
0.02
0.04
lit_c_tan
9.004
8.249
7.505
6.750
6.006
5.251
4.496
3.753
2.998
2.254

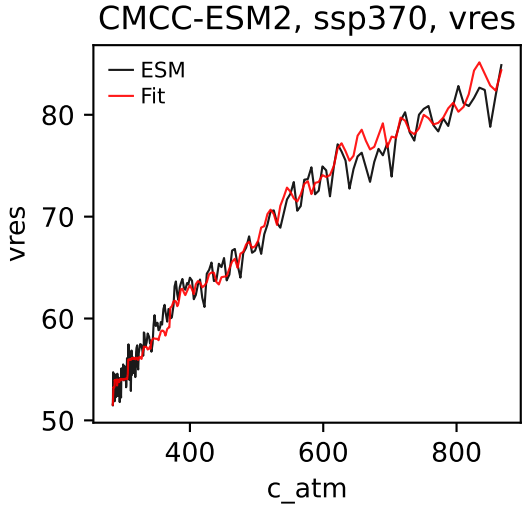

CMCC-ESM2, ssp370, Litter, ln(MSE/SIGMA)
0692, -1.0000, 0.0000, -0.1324, 0.1932, 0.0000, 0.9566, 0.8506, 0.
1e+14+3.692322219e-1
CMCC-ESM2
lit_slow
lit_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
9.004
8.249
7.505
6.750
6.006
5.251
4.496
3.753
2.998
2.254

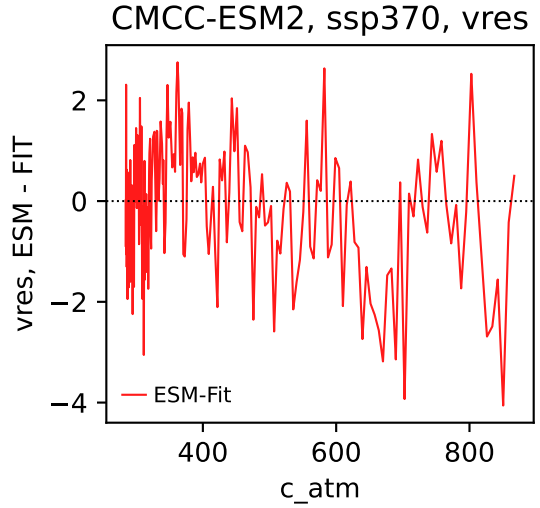

CMCC-ESM2, ssp370, vres
ESM
Fit
vres
Year

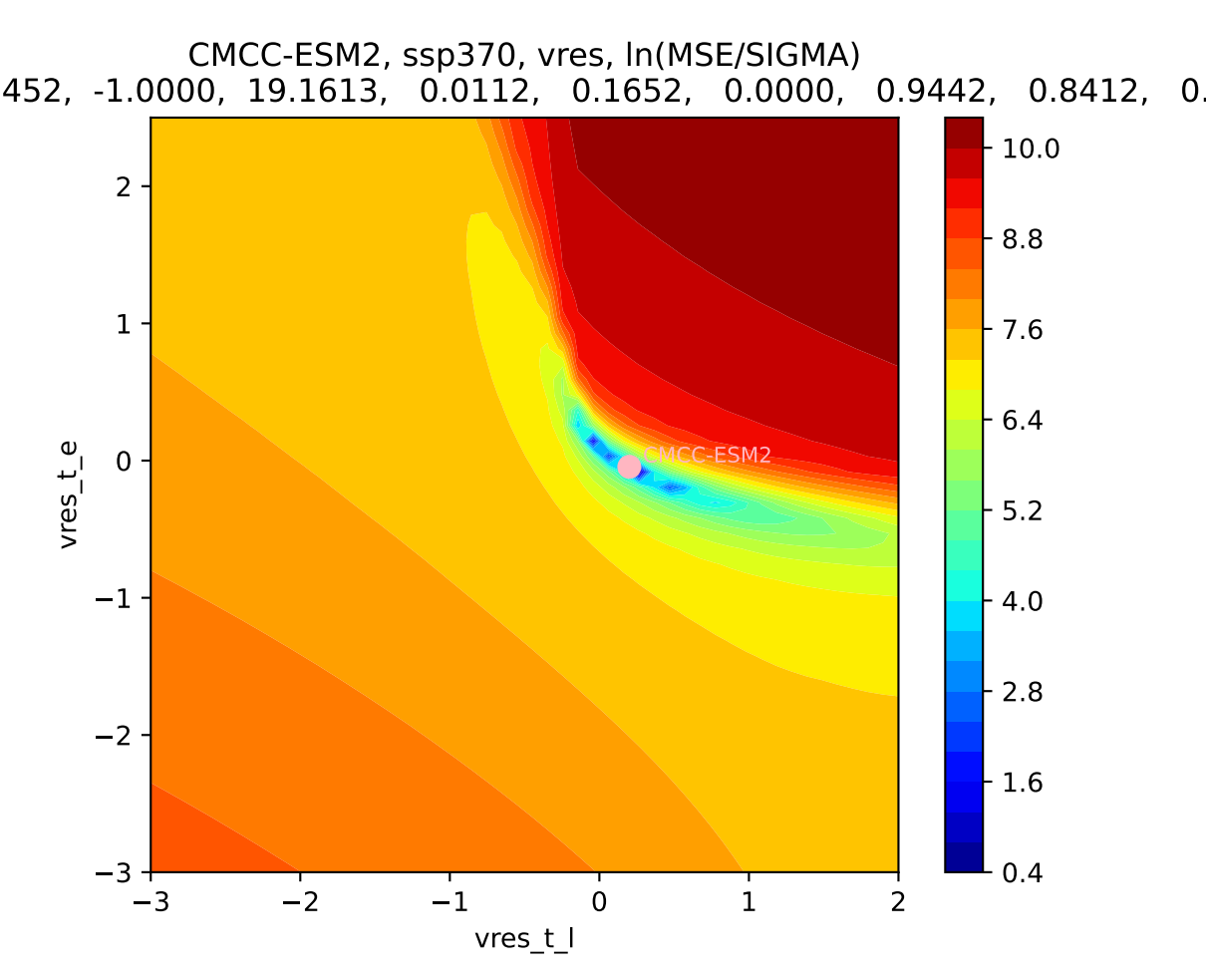

CMCC-ESM2, ssp370, vres
vres, ESM - FIT
ESM-Fit
Year

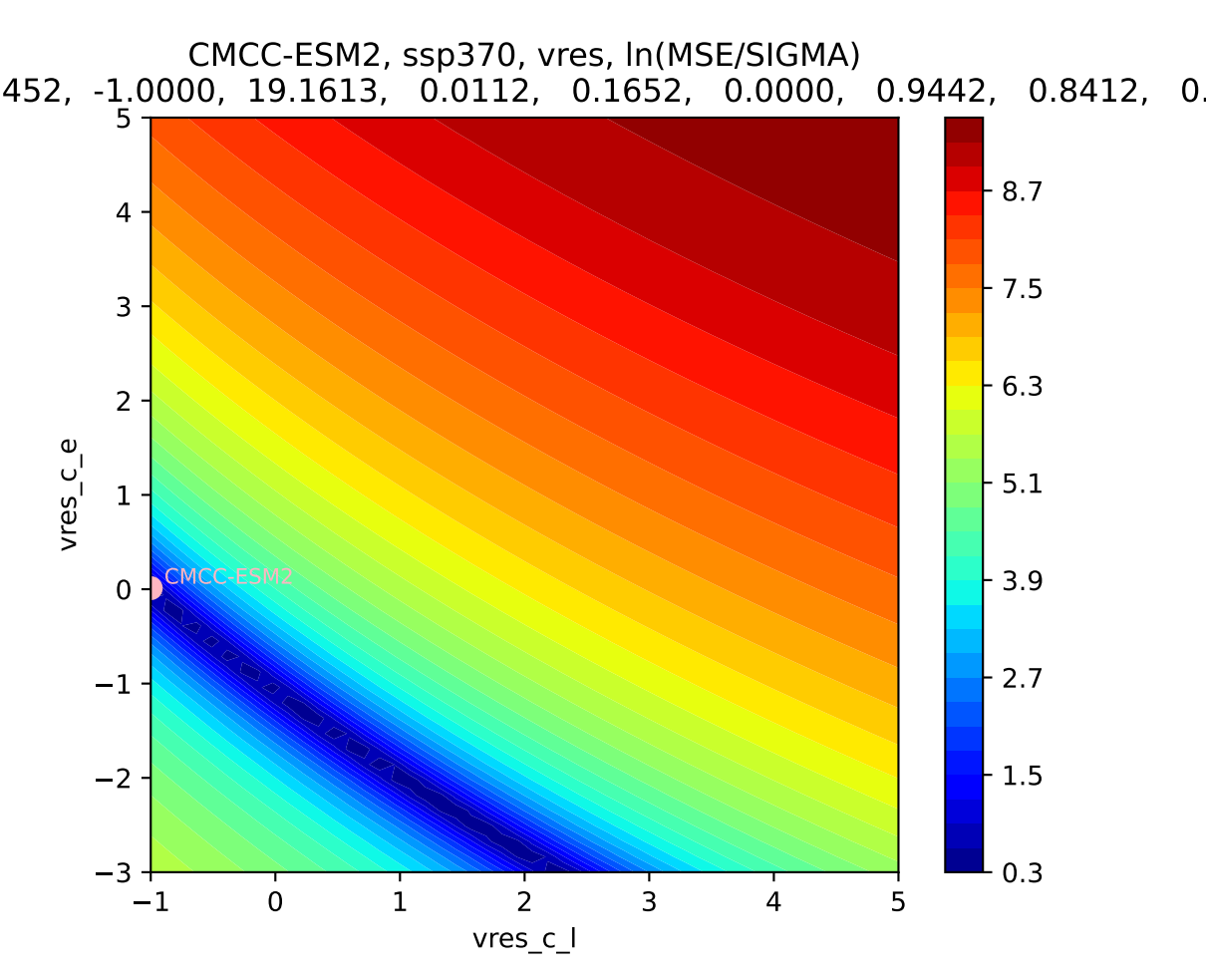

CMCC-ESM2, ssp370, vres
ESM
Fit
vres
ΔT

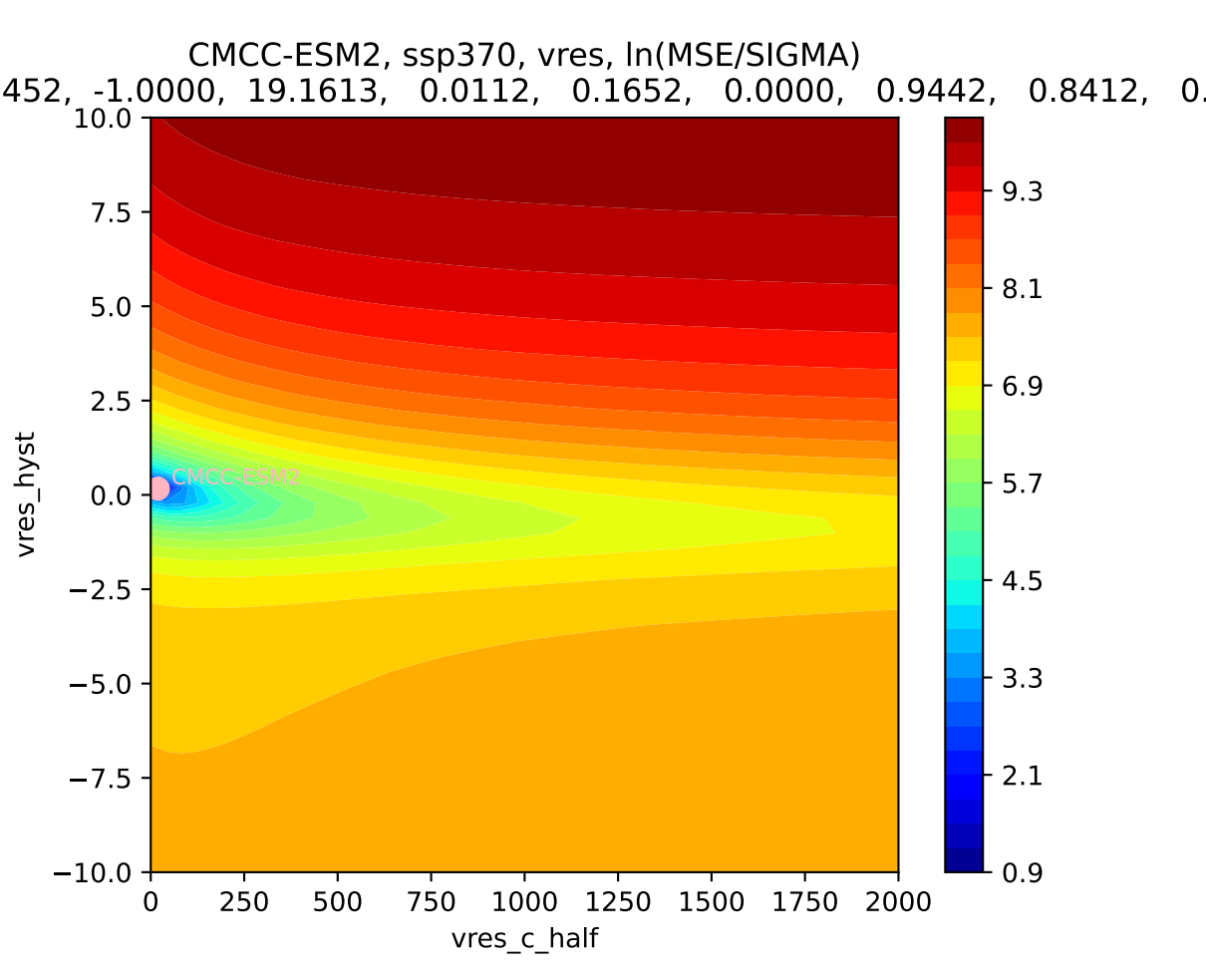

CMCC-ESM2, ssp370, vres
vres, ESM - FIT
ESM-Fit
ΔT

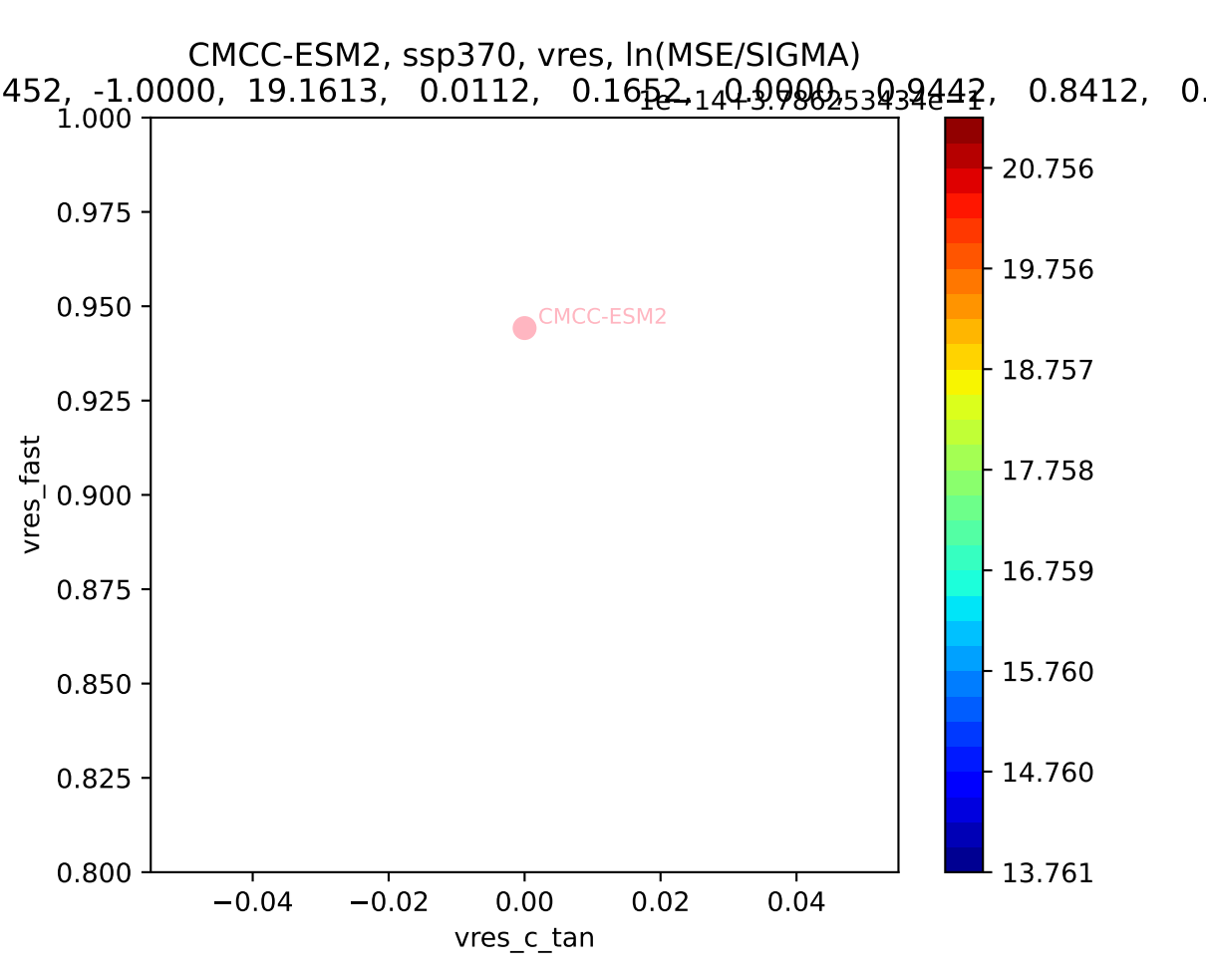

CMCC-ESM2, ssp370, vres
ESM
Fit
vres
c_atm

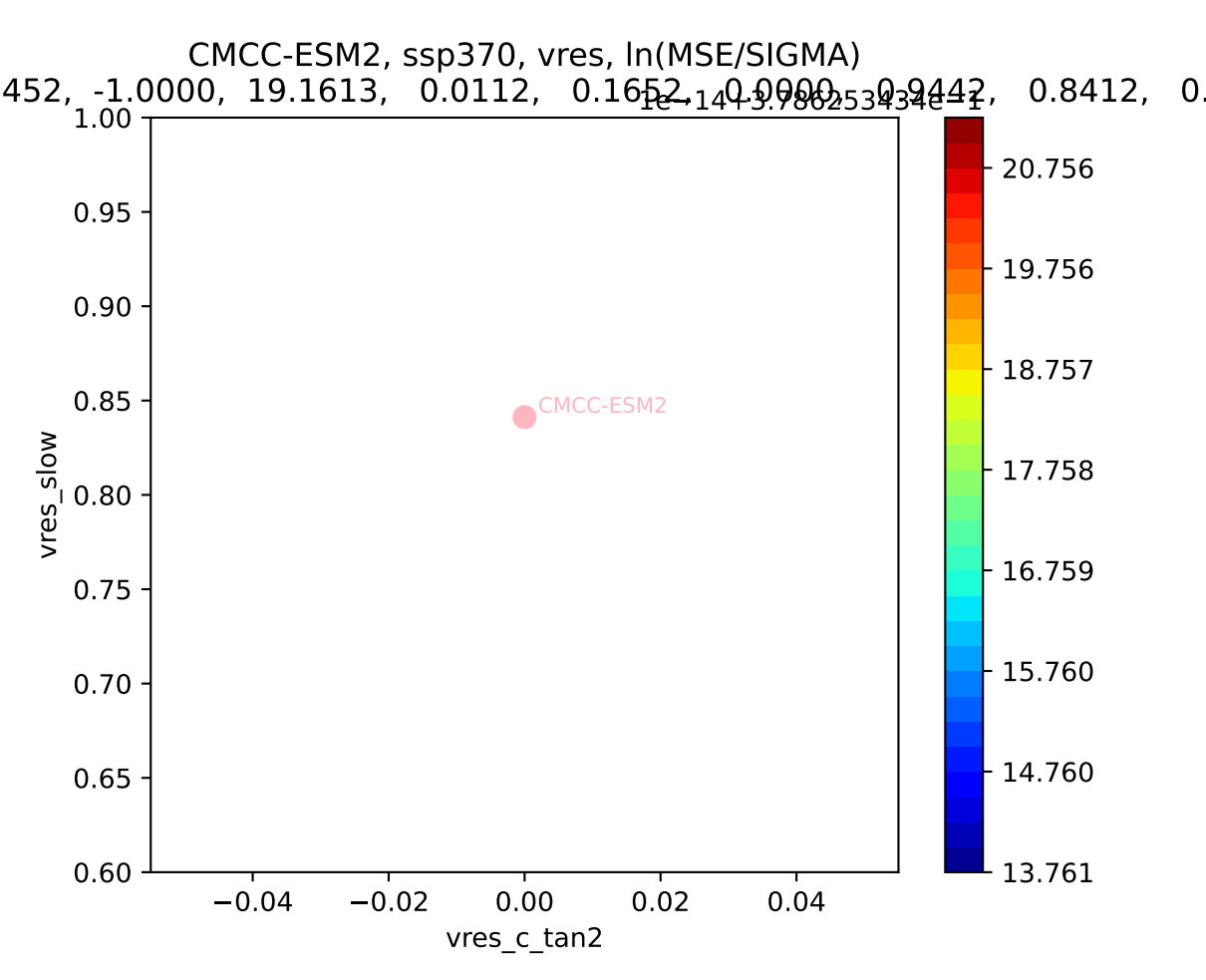

CMCC-ESM2, ssp370, vres
vres, ESM - FIT
ESM-Fit
c_atm

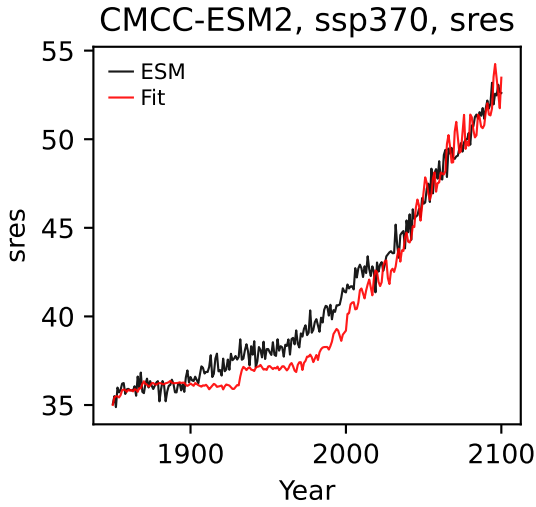

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1613, 0.0112, 0.1652, 0.0000, 0.9442, 0.8412, 0.
CMCC-ESM2
vres_t_e
vres_t_l
10.0
8.8
7.6
6.4
5.2
4.0
2.8
1.6
0.4

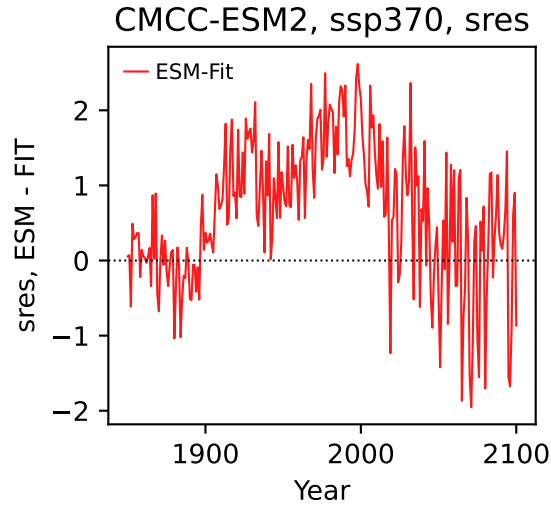

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1613, 0.0112, 0.1652, 0.0000, 0.9442, 0.8412, 0.
vres_c_e
vres_c_l
CMCC-ESM2
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

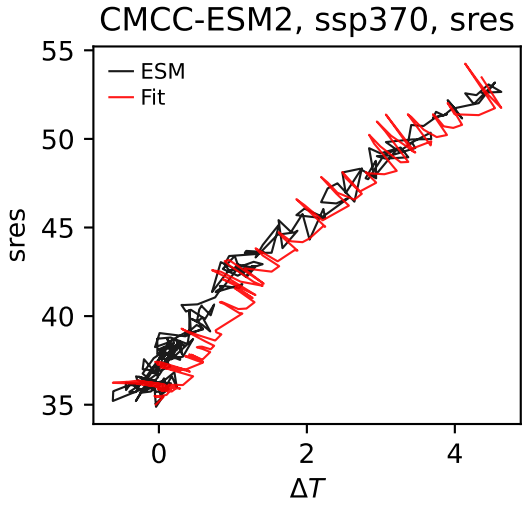

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1613, 0.0112, 0.1652, 0.0000, 0.9442, 0.8412, 0.
CMCC-ESM2
vres_hyst
vres_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
9.3
8.1
6.9
5.7
4.5
3.3
2.1
0.9

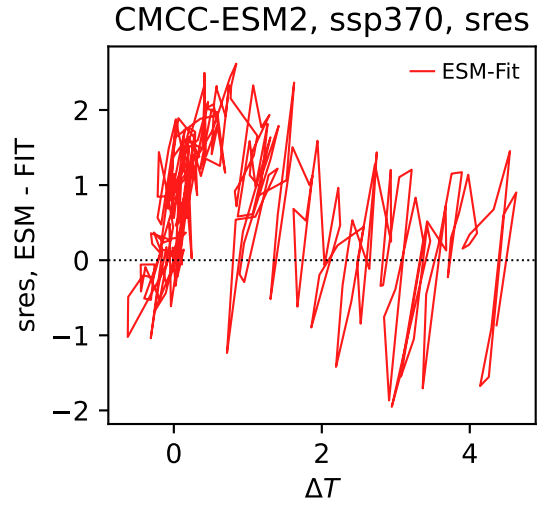

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1613, 0.0112, 0.1652, 0.0000, 0.9442, 0.8412, 0.
1e−14+3.786253434e−1
CMCC-ESM2
vres_fast
vres_c_tan
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
−0.04
−0.02
0.00
0.02
0.04
20.756
19.756
18.757
17.758
16.759
15.760
14.760
13.761

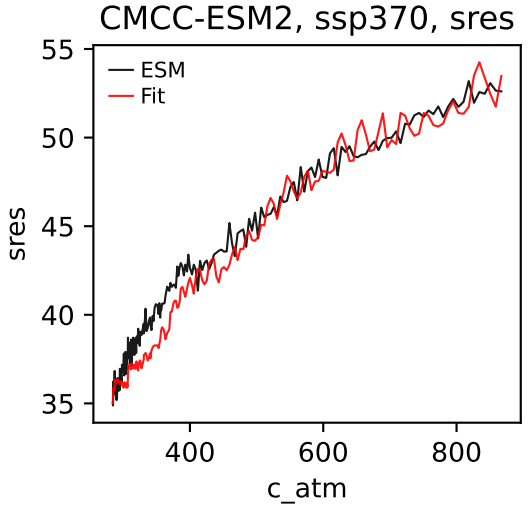

CMCC-ESM2, ssp370, vres, ln(MSE/SIGMA)
452, -1.0000, 19.1613, 0.0112, 0.1652, 0.0000, 0.9442, 0.8412, 0.
1e−14+3.786253434e+1
CMCC-ESM2
vres_slow
vres_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
20.756
19.756
18.757
17.758
16.759
15.760
14.760
13.761

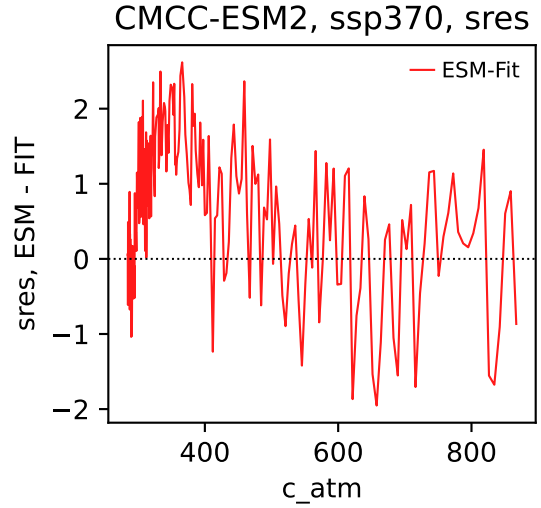

CMCC-ESM2, ssp370, sres
ESM
Fit
sres
Year

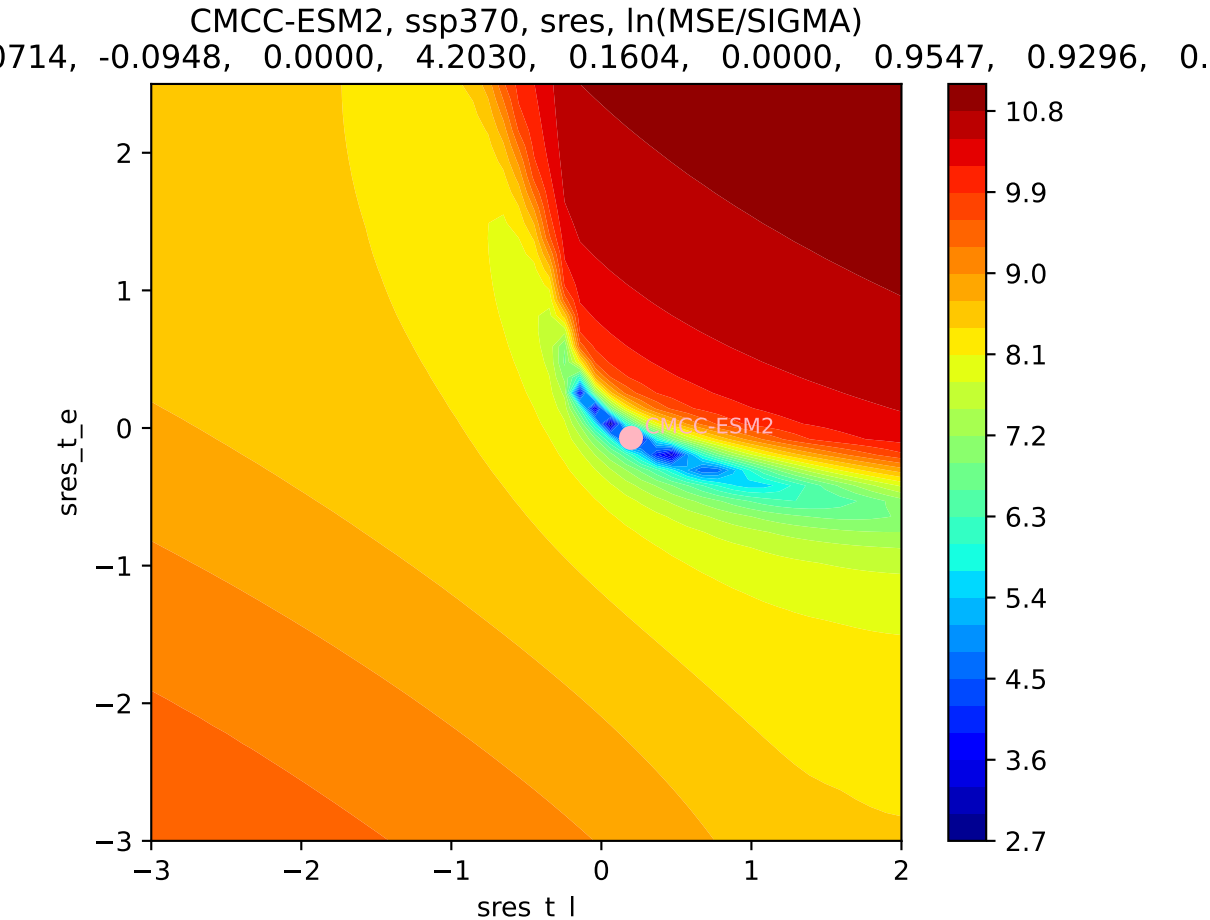

CMCC-ESM2, ssp370, sres
ESM-Fit
sres, ESM - FIT
Year

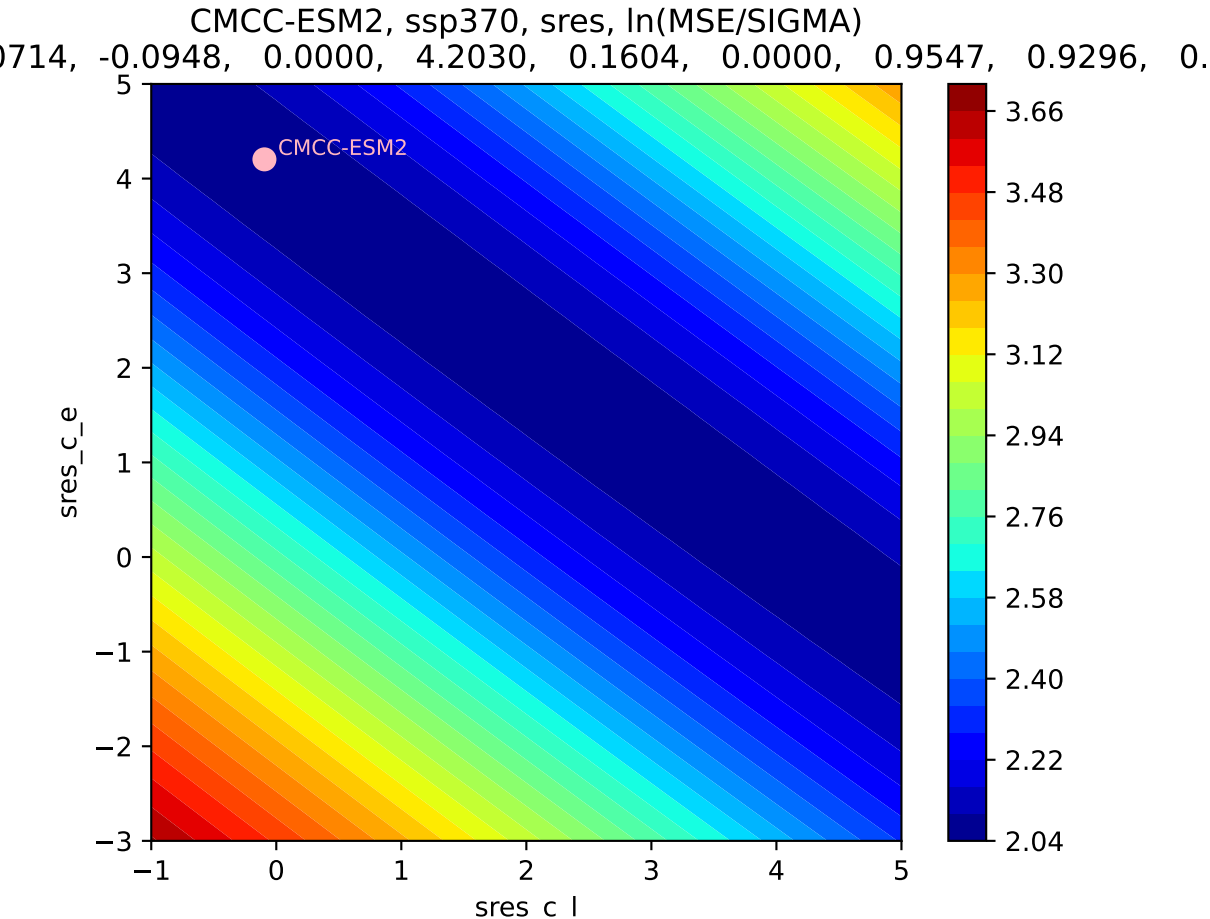

CMCC-ESM2, ssp370, sres
ESM
Fit
sres
ΔT

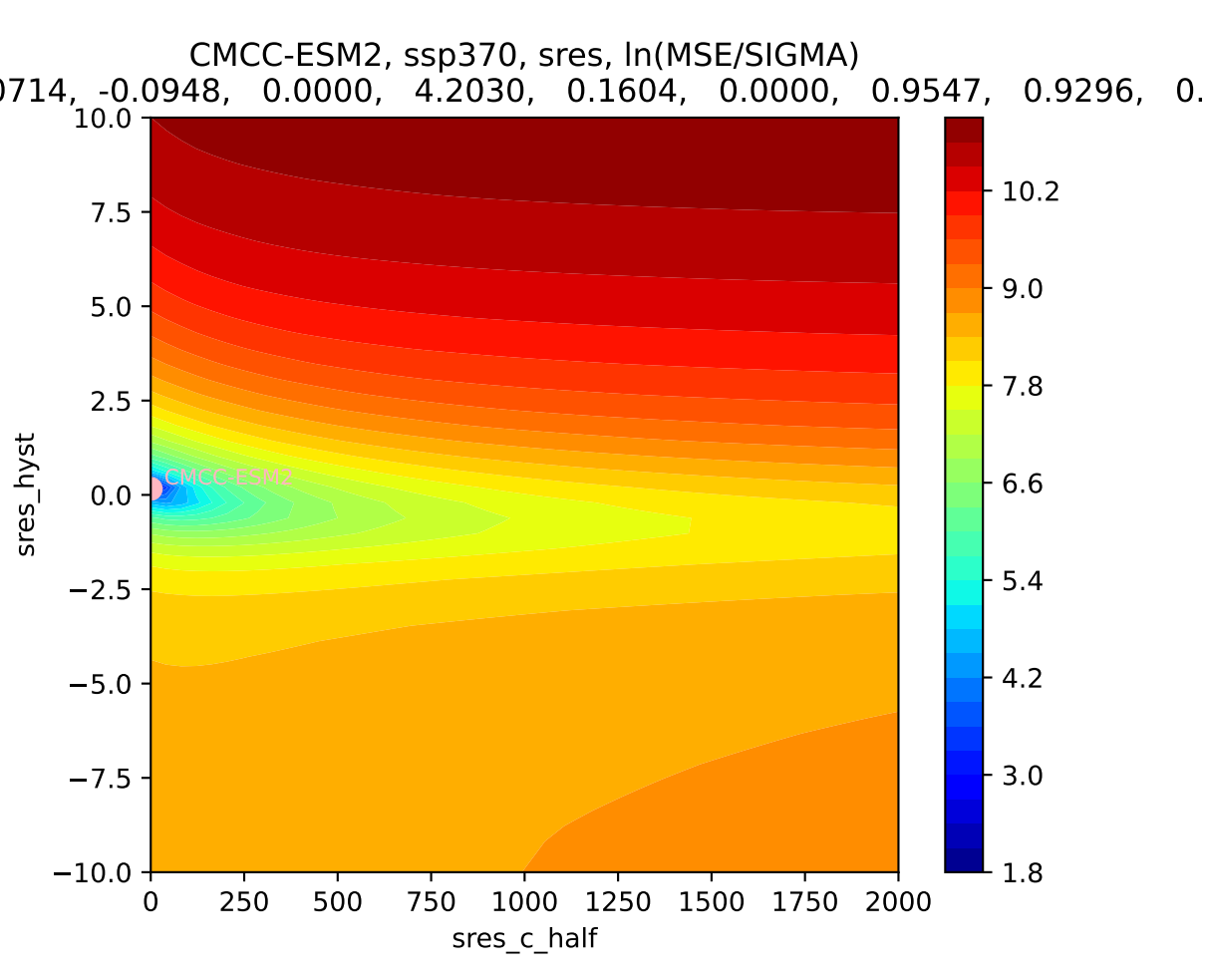

CMCC-ESM2, ssp370, sres
ESM-Fit
sres, ESM - FIT
ΔT

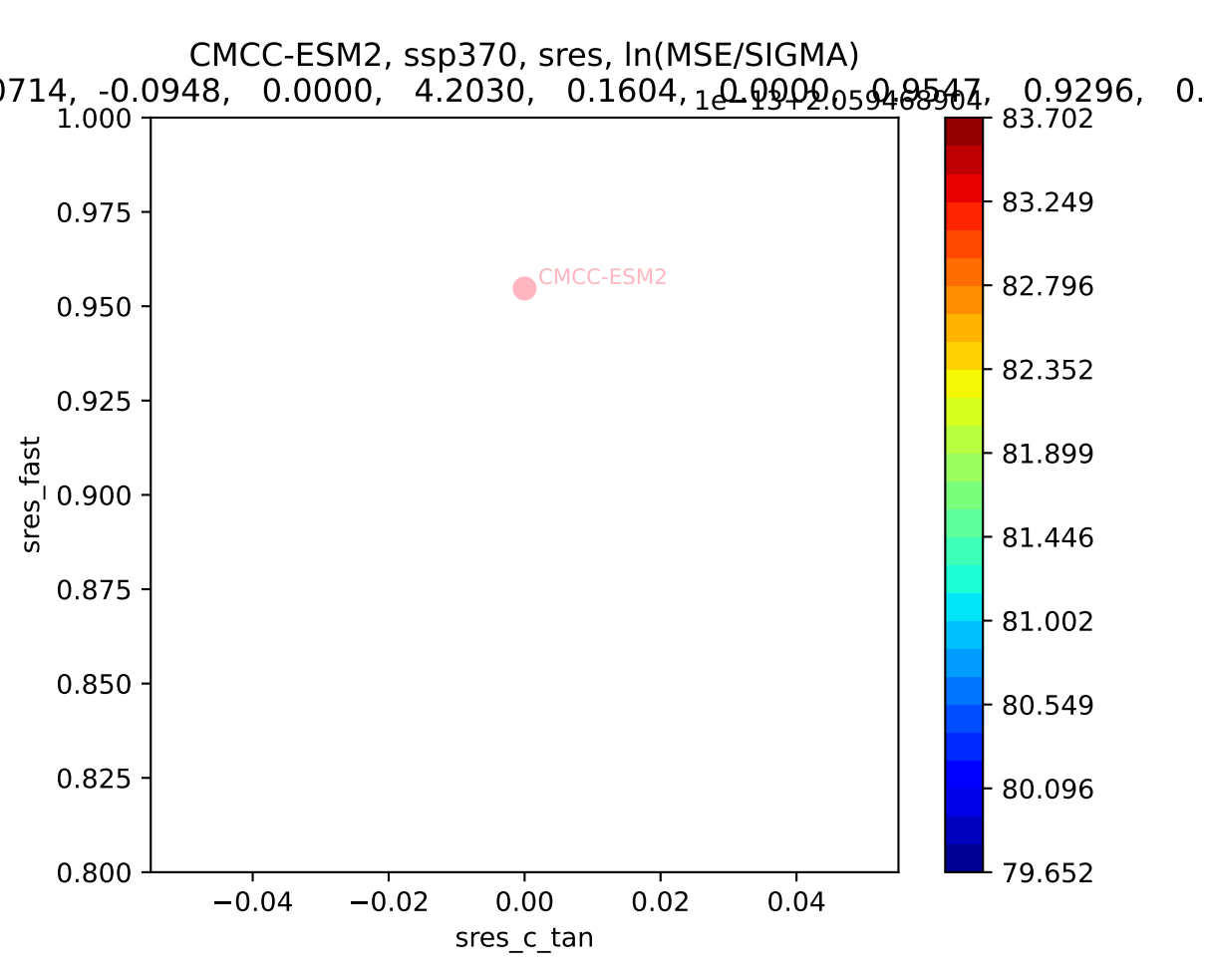

CMCC-ESM2, ssp370, sres
ESM
Fit
sres
c_atm

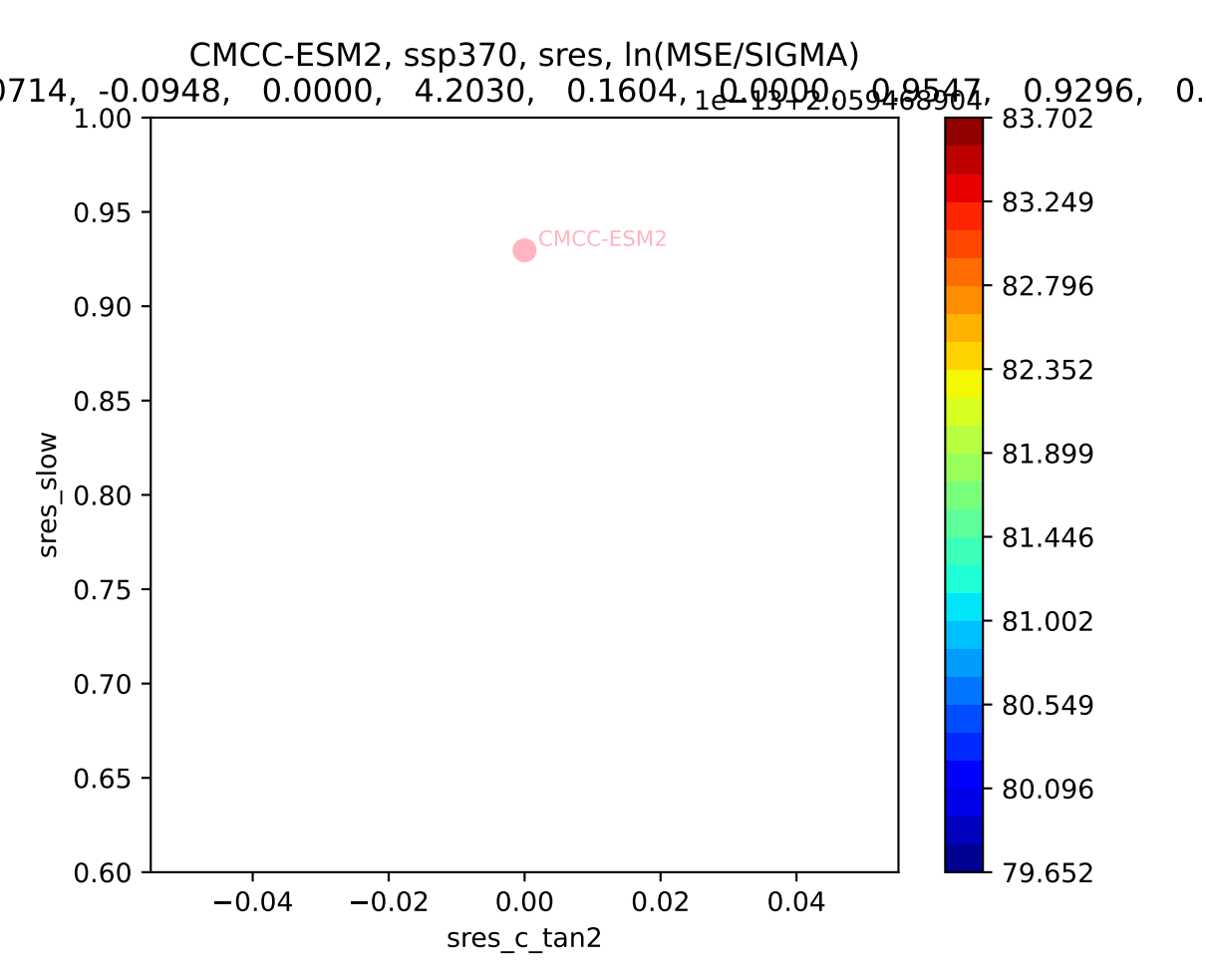

CMCC-ESM2, ssp370, sres
ESM-Fit
sres, ESM - FIT
c_atm

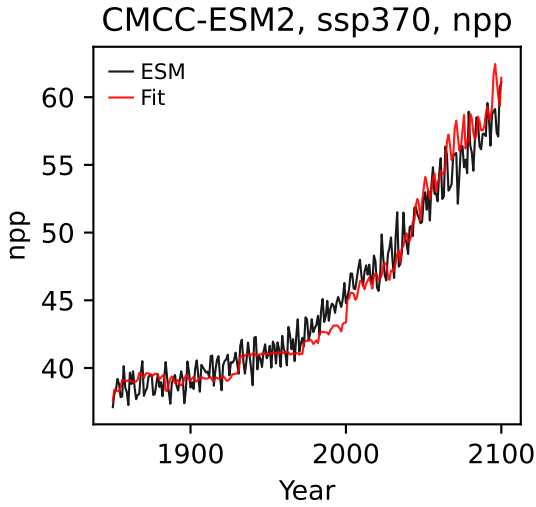

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0714, -0.0948, 0.0000, 4.2030, 0.1604, 0.0000, 0.9547, 0.9296, 0.
CMCC-ESM2
sres_t_e
sres_t_l
−3
−2
−1
0
1
2
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7

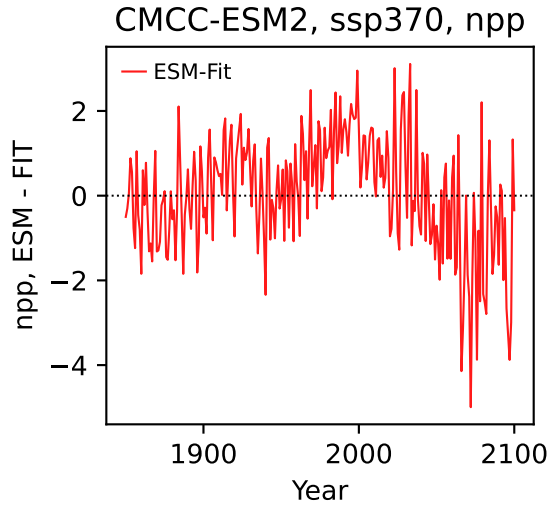

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0714, -0.0948, 0.0000, 4.2030, 0.1604, 0.0000, 0.9547, 0.9296, 0.
CMCC-ESM2
sres_c_e
sres_c_l
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
3.66
3.48
3.30
3.12
2.94
2.76
2.58
2.40
2.22
2.04

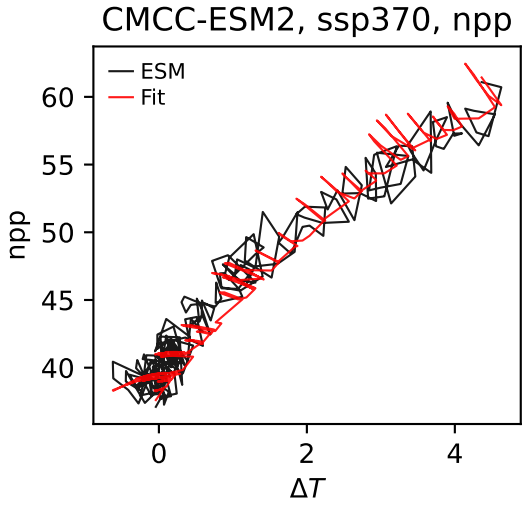

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0714, -0.0948, 0.0000, 4.2030, 0.1604, 0.0000, 0.9547, 0.9296, 0.
CMCC-ESM2
sres_hyst
sres_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8

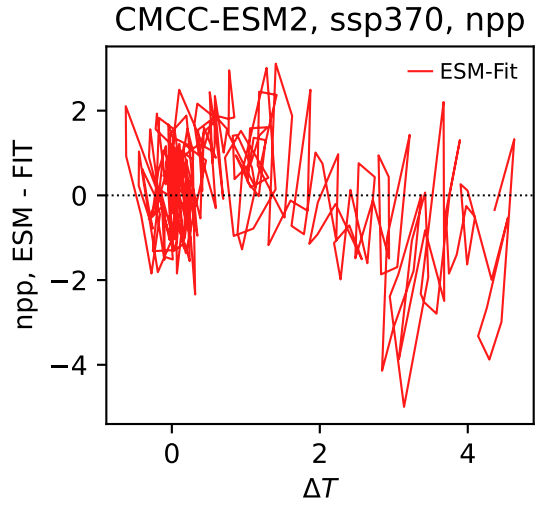

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0714, -0.0948, 0.0000, 4.2030, 0.1604, 0.0000, 0.9547, 0.9296, 0.
1e−13+2.059468904
CMCC-ESM2
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
sres_fast
−0.04
−0.02
0.00
0.02
0.04
sres_c_tan
83.702
83.249
82.796
82.352
81.899
81.446
81.002
80.549
80.096
79.652

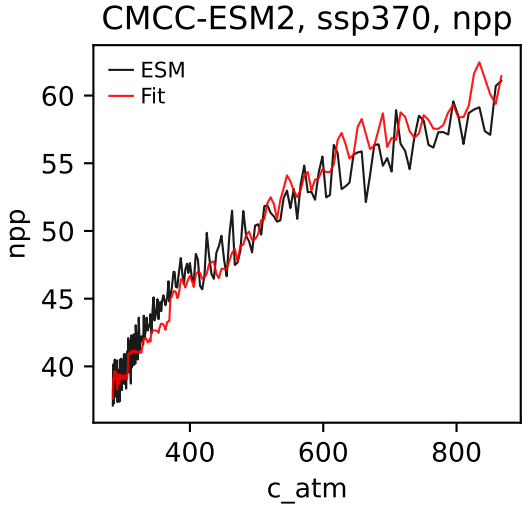

CMCC-ESM2, ssp370, sres, ln(MSE/SIGMA)
0714, -0.0948, 0.0000, 4.2030, 0.1604, 0.0000, 0.9547, 0.9296, 0.
1e−13+2.059468904
CMCC-ESM2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
−0.04
−0.02
0.00
0.02
0.04
sres_c_tan2
83.702
83.249
82.796
82.352
81.899
81.446
81.002
80.549
80.096
79.652

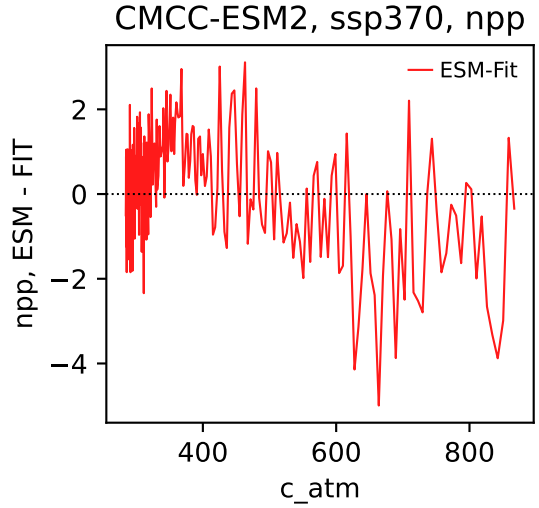

CMCC-ESM2, ssp370, npp
ESM
Fit
npp
Year

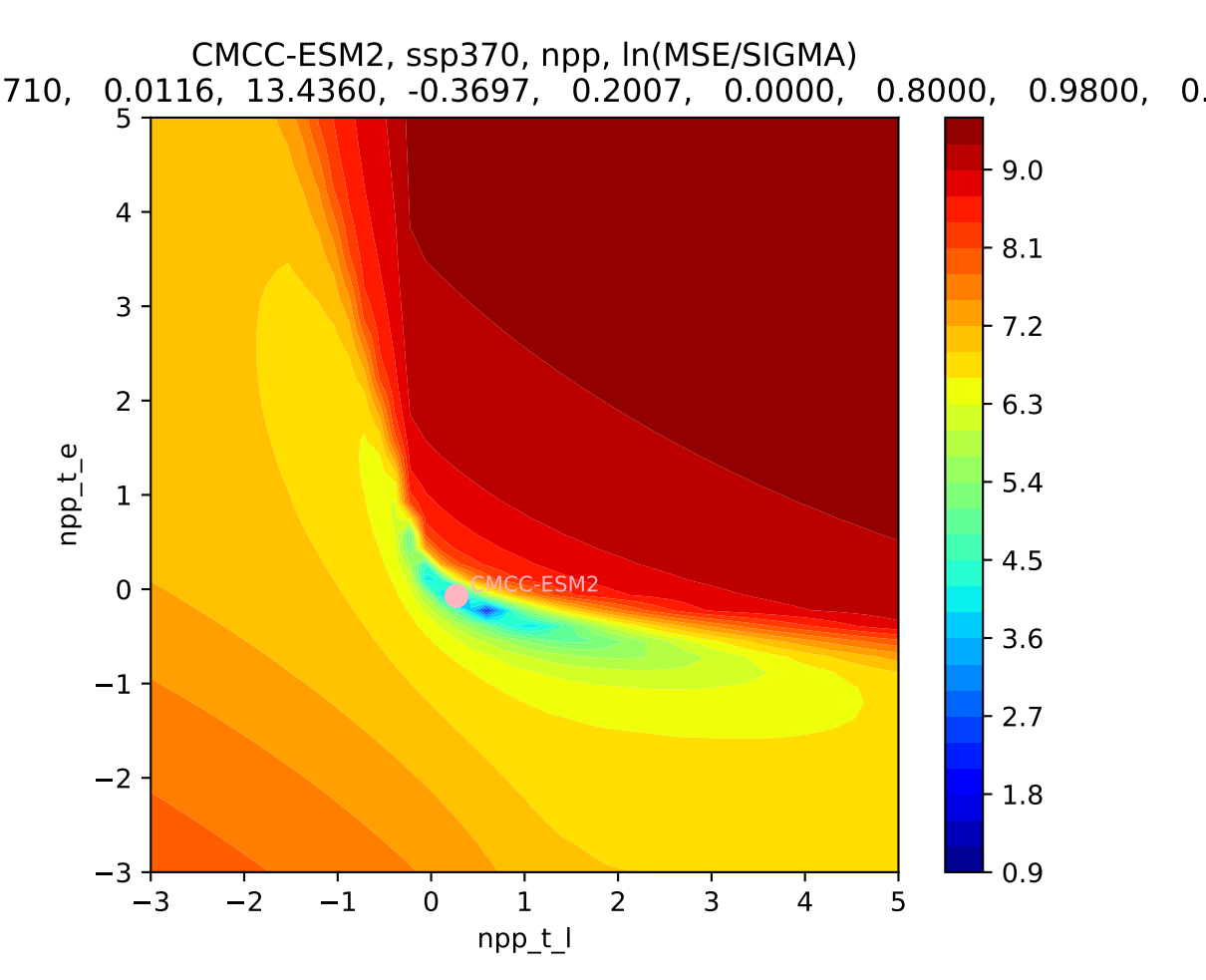

CMCC-ESM2, ssp370, npp
ESM-Fit
npp, ESM - FIT
Year

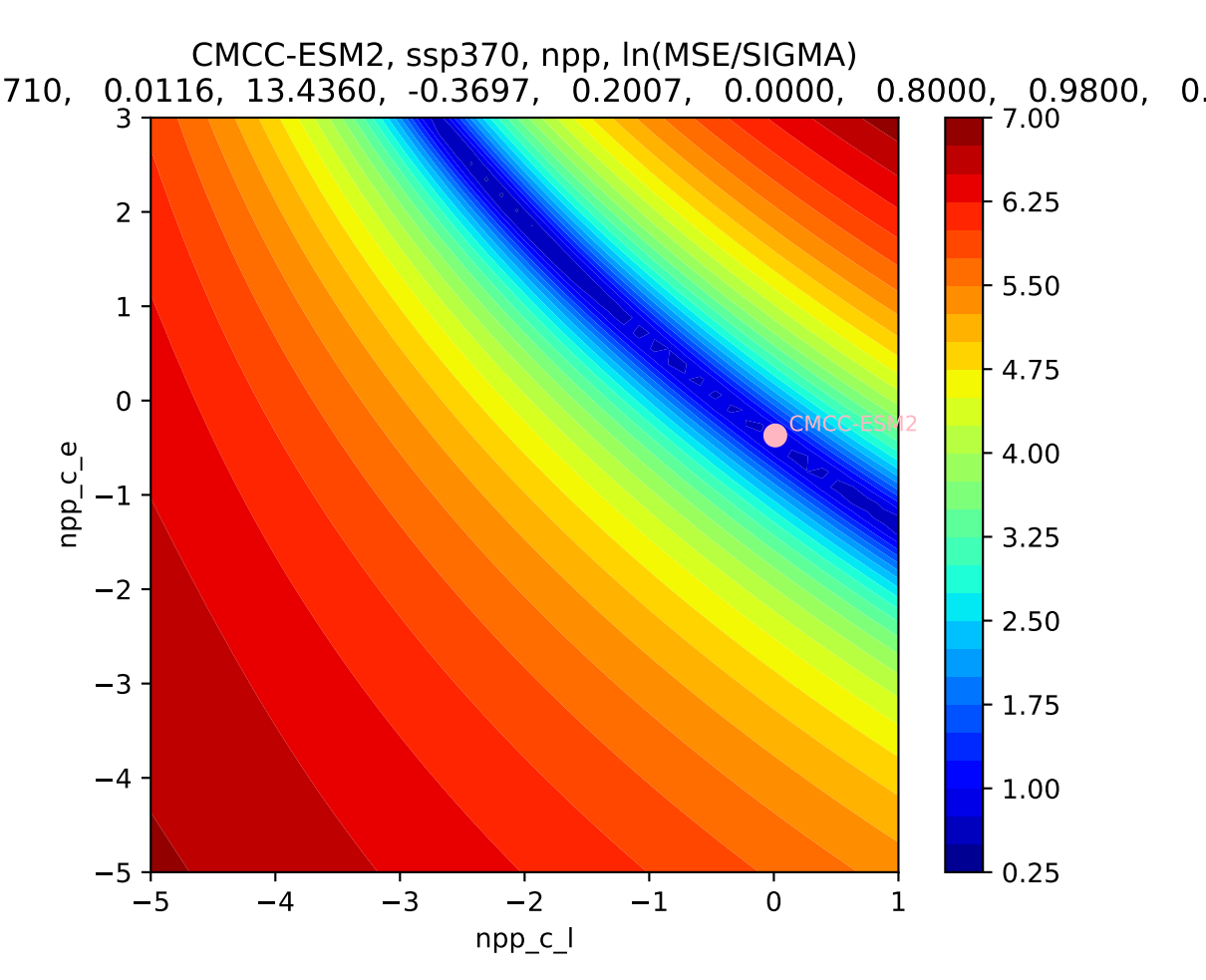

CMCC-ESM2, ssp370, npp
ESM
Fit
npp
ΔT

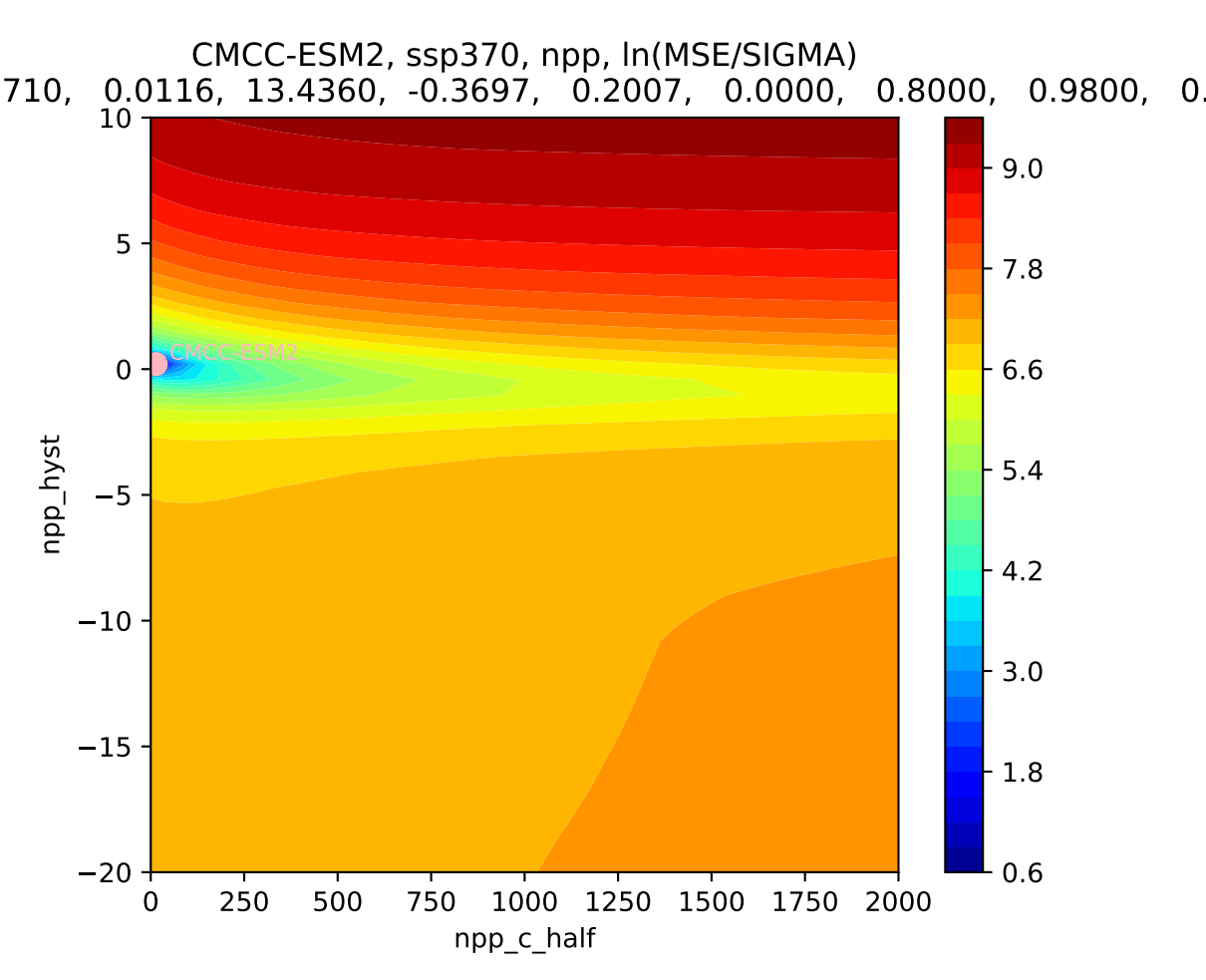

CMCC-ESM2, ssp370, npp
ESM-Fit
npp, ESM - FIT
ΔT

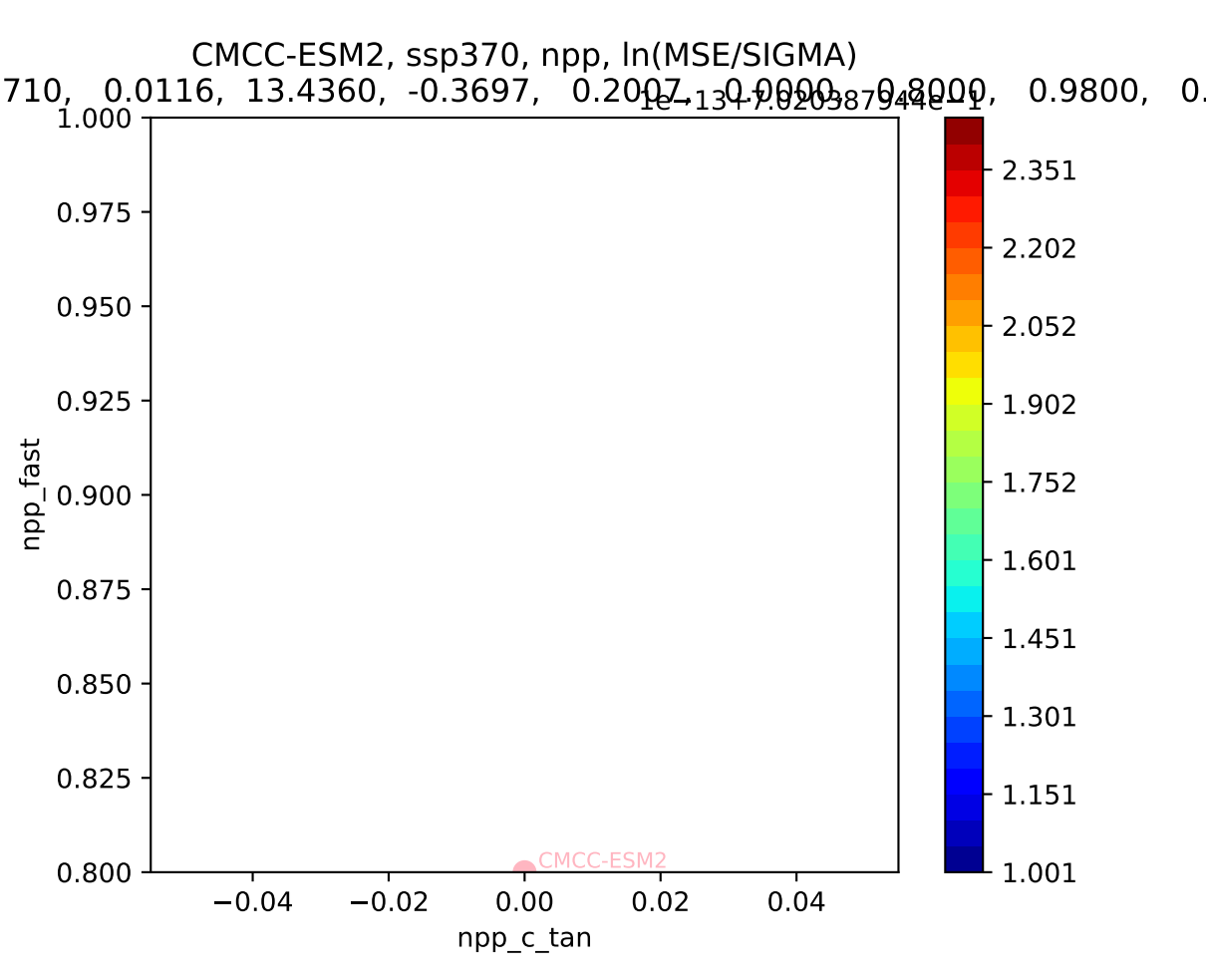

CMCC-ESM2, ssp370, npp
ESM
Fit
npp
c_atm

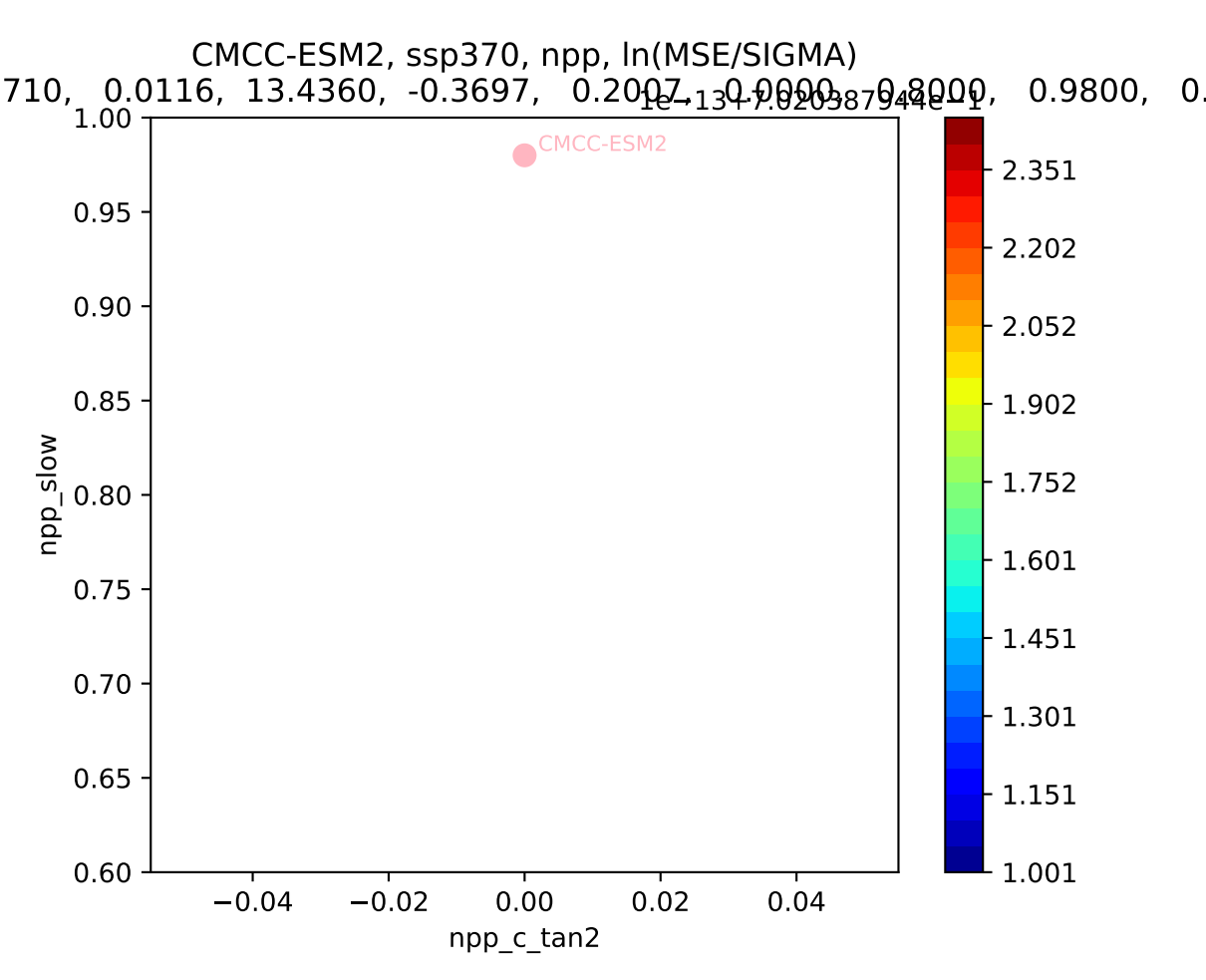

CMCC-ESM2, ssp370, npp
ESM-Fit
npp, ESM - FIT
c_atm

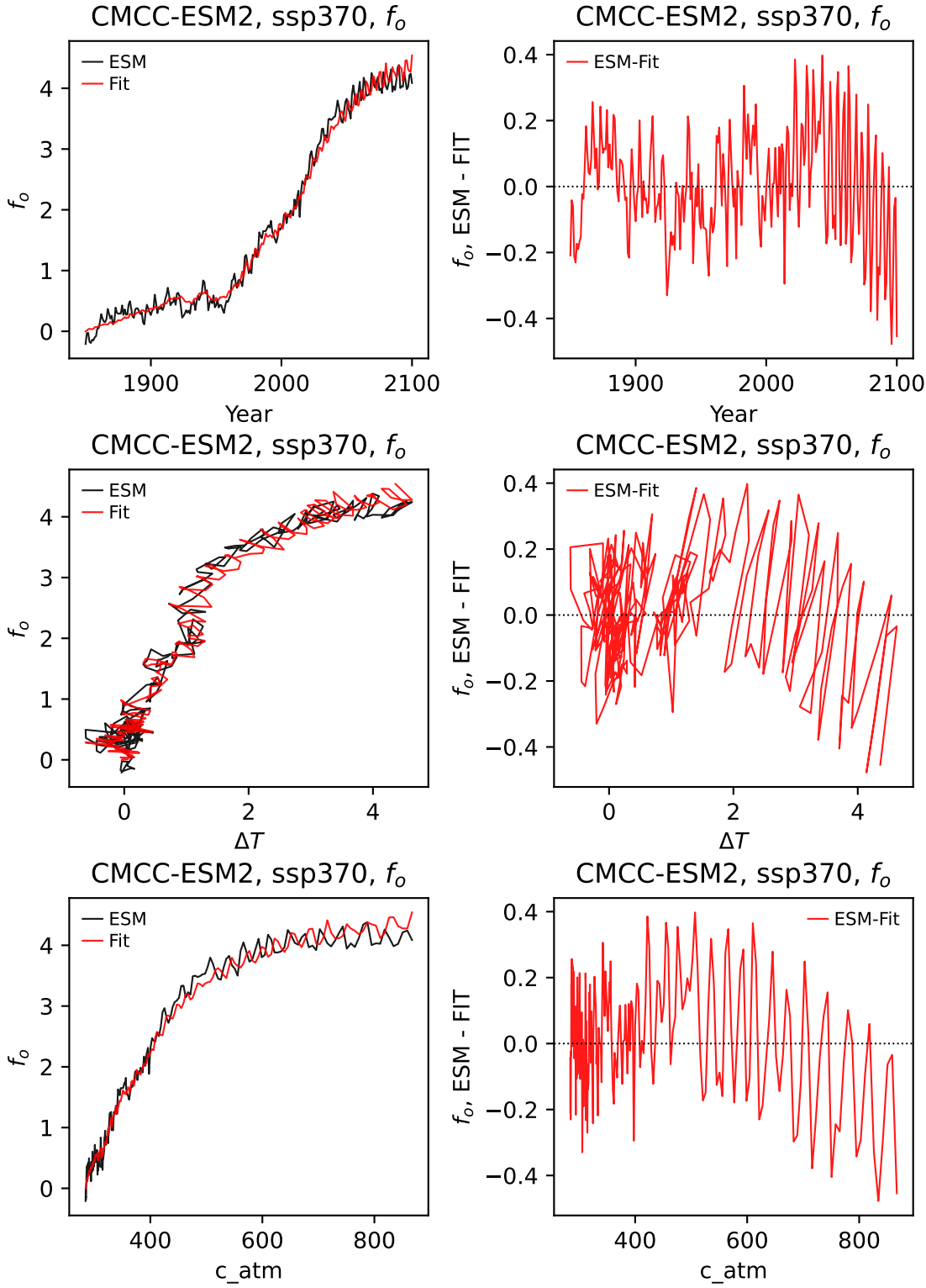

CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
710, 0.0116, 13.4360, -0.3697, 0.2007, 0.0000, 0.8000, 0.9800, 0.
CMCC-ESM2
npp_t_e
npp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8
0.9

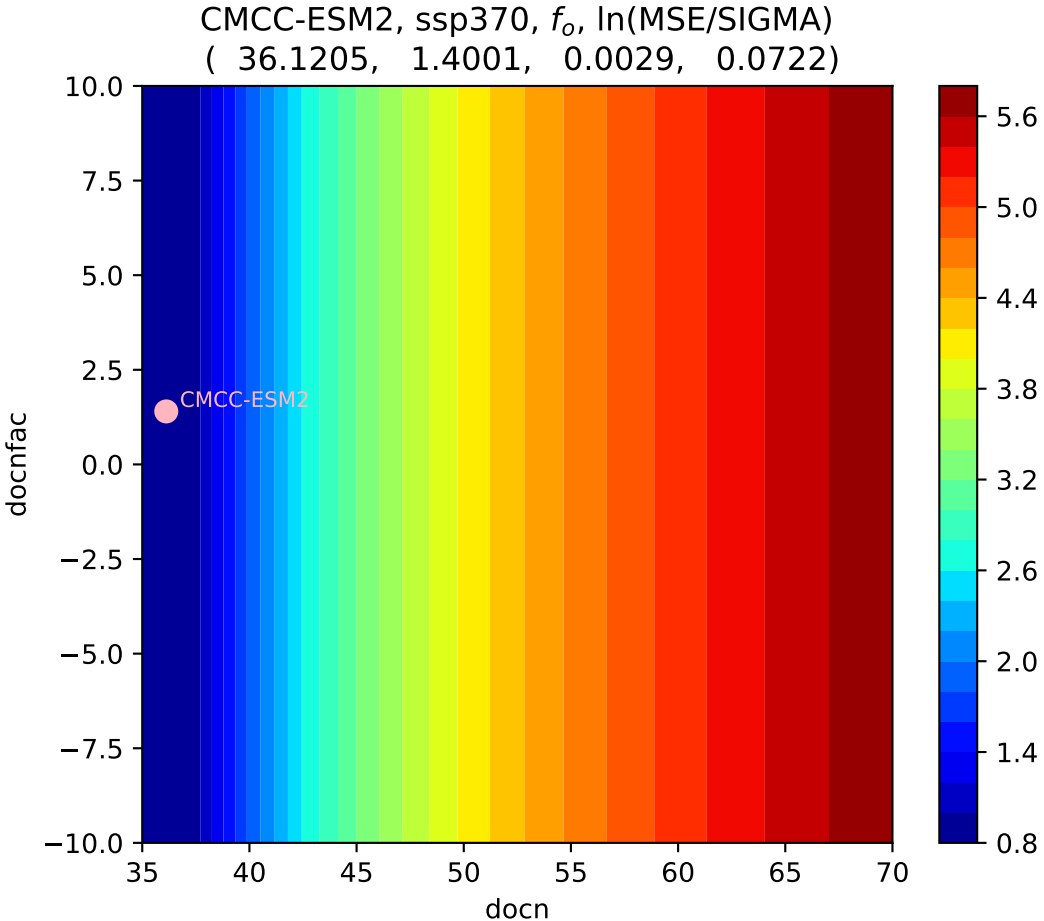

CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
710, 0.0116, 13.4360, -0.3697, 0.2007, 0.0000, 0.8000, 0.9800, 0.
CMCC-ESM2
npp_c_e
npp_c_l
3
2
1
0
−1
−2
−3
−4
−5
−5
−4
−3
−2
−1
0
1
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00
0.25

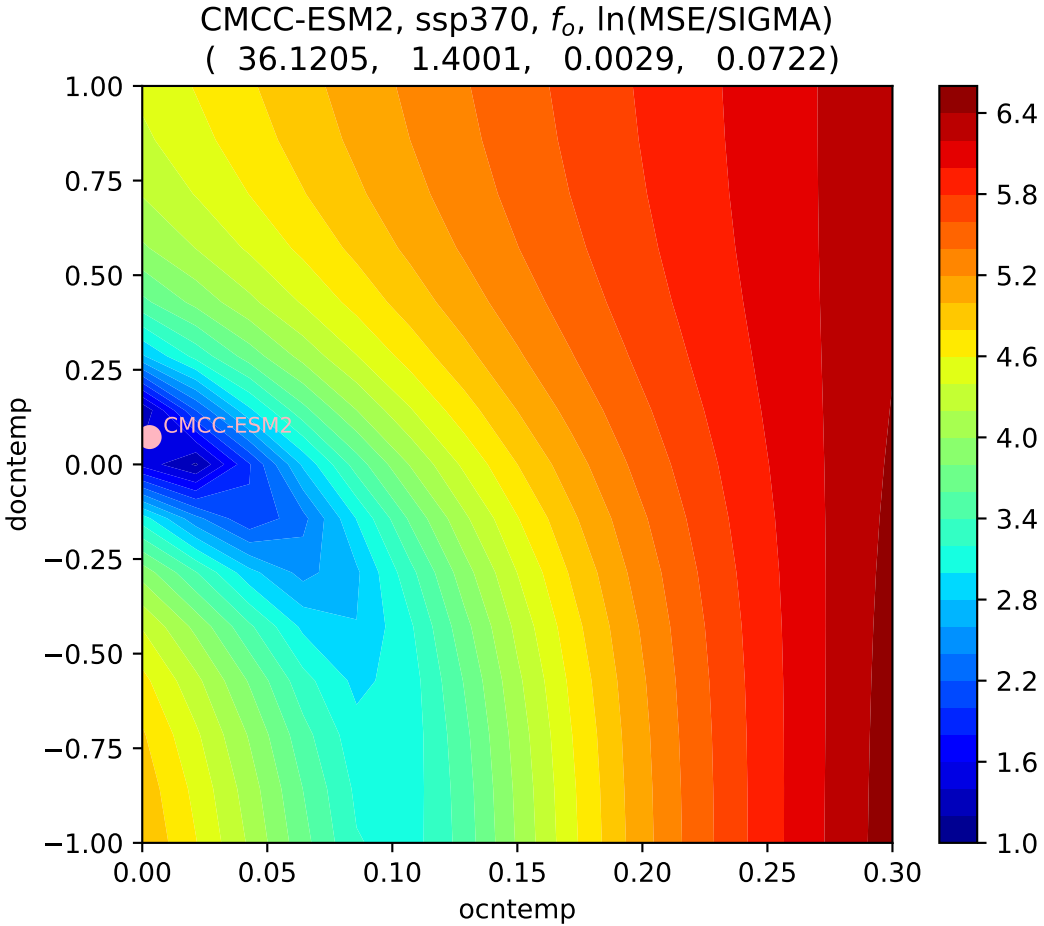

CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
710, 0.0116, 13.4360, -0.3697, 0.2007, 0.0000, 0.8000, 0.9800, 0.
CMCC-ESM2
npp_hyst
10
5
0
−5
−10
−15
−20
npp_c_half
0
250
500
750
1000
1250
1500
1750
2000
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6


CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
710, 0.0116, 13.4360, -0.3697, 0.2007, 0.0000, 0.8000, 0.9800, 0.
1e−13+7.020387944e−1
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
npp_fast
−0.04
−0.02
0.00
0.02
0.04
npp_c_tan
2.351
2.202
2.052
1.902
1.752
1.601
1.451
1.301
1.151
1.001
CMCC-ESM2


CMCC-ESM2, ssp370, npp, ln(MSE/SIGMA)
710, 0.0116, 13.4360, -0.3697, 0.2007, 0.0000, 0.8000, 0.9800, 0.
1e−13+7.020387944e−1
CMCC-ESM2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
−0.04
−0.02
0.00
0.02
0.04
npp_c_tan2
2.351
2.202
2.052
1.902
1.752
1.601
1.451
1.301
1.151
1.001


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
$f_o$
$\Delta T$
CMCC-ESM2, ssp370, $f_o$
ESM-Fit
$f_o$, ESM - FIT
$\Delta T$
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)
( 36.1205, 1.4001, 0.0029, 0.0722)
CMCC-ESM2
docnfac
docn
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
35
40
45
50
55
60
65
70
5.6
5.0
4.4
3.8
3.2
2.6
2.0
1.4
0.8


CMCC-ESM2, ssp370, $f_o$, ln(MSE/SIGMA)
( 36.1205, 1.4001, 0.0029, 0.0722)
CMCC-ESM2
docntemp
ocntemp
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
0.00
0.05
0.10
0.15
0.20
0.25
0.30
6.4
5.8
5.2
4.6
4.0
3.4
2.8
2.2
1.6
1.0