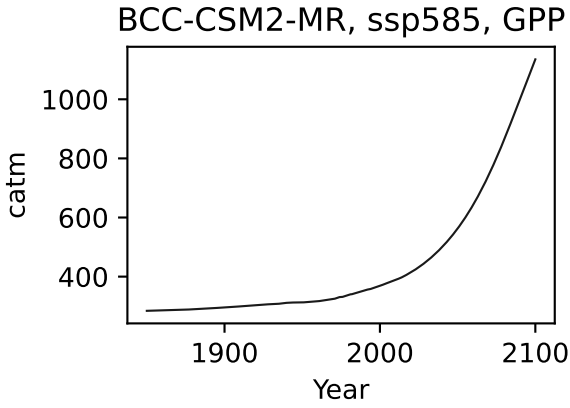
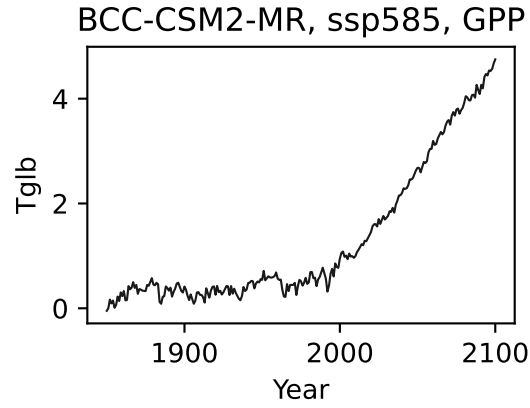
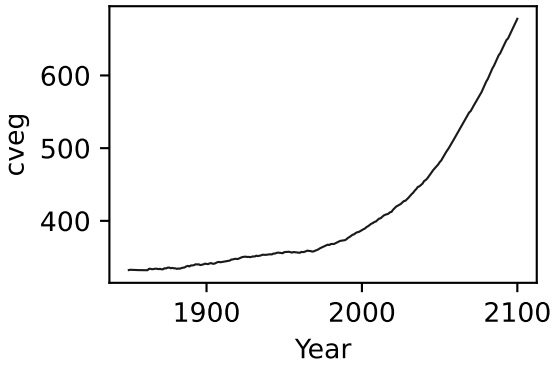
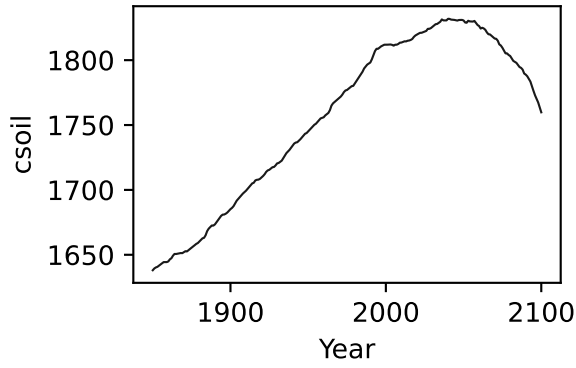
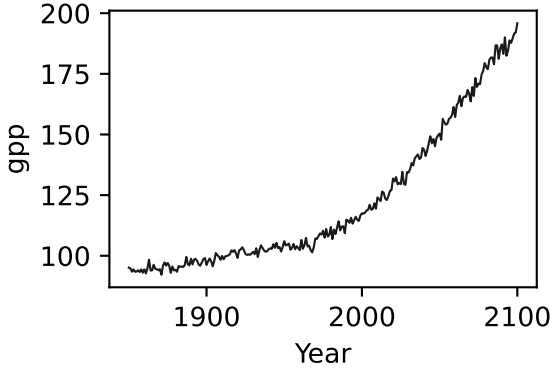
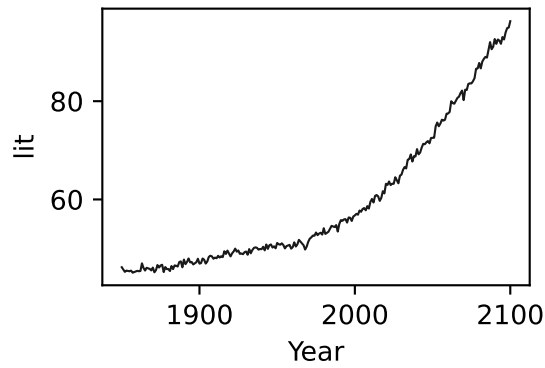

BCC-CSM2-MR, ssp585, GPP
catm
1000
800
600
400
1900
2000
2100
Year

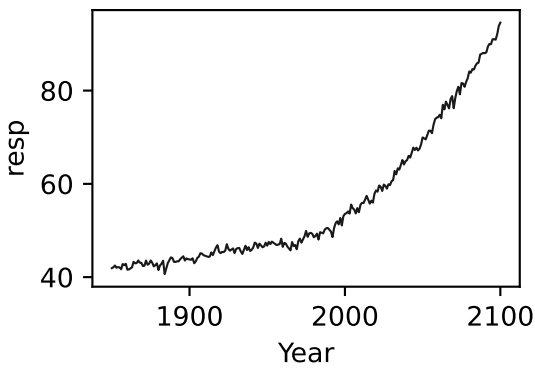

BCC-CSM2-MR, ssp585, GPP
Tglb
4
2
0
1900
2000
2100
Year

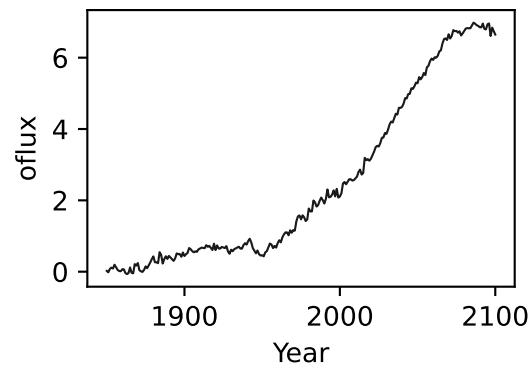

cveg
600
500
400
1900
2000
2100
Year

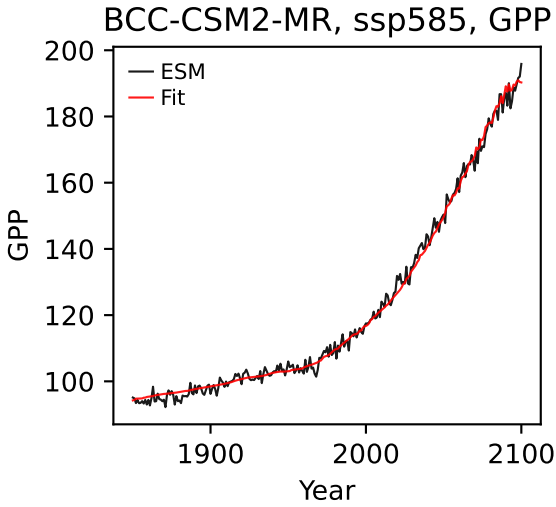

csoil
1800
1750
1700
1650
1900
2000
2100
Year

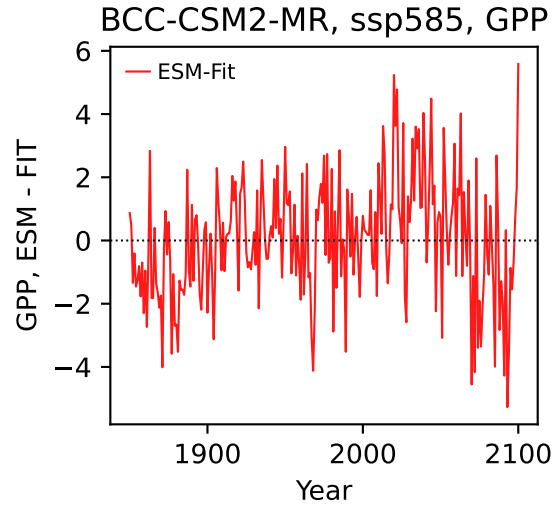

gpp
200
175
150
125
100
1900
2000
2100
Year

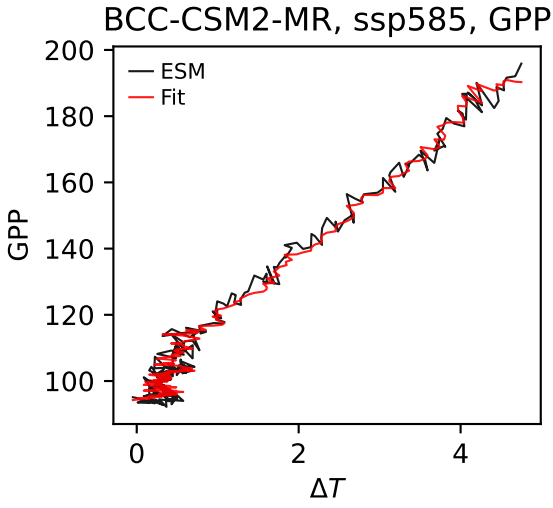

lit
80
60
1900
2000
2100
Year

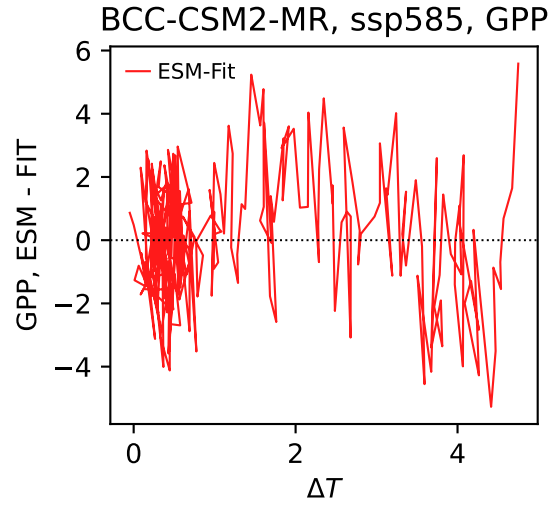

resp
80
60
40
1900
2000
2100
Year

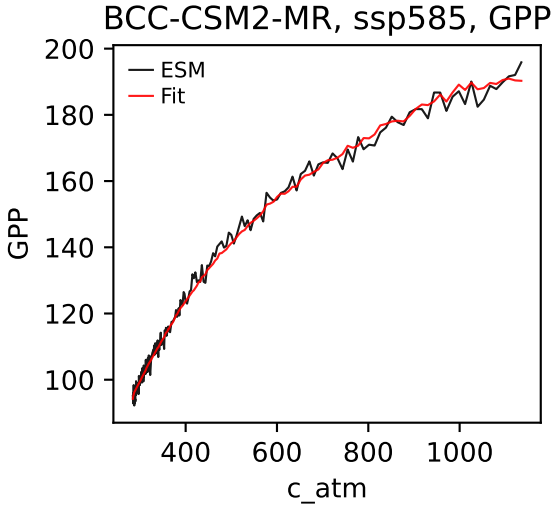

oflux
6
4
2
0
1900
2000
2100
Year

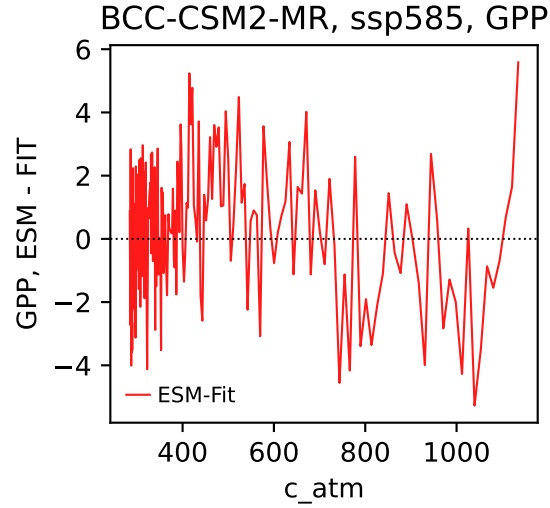

BCC-CSM2-MR, ssp585, GPP
ESM
Fit
GPP
Year

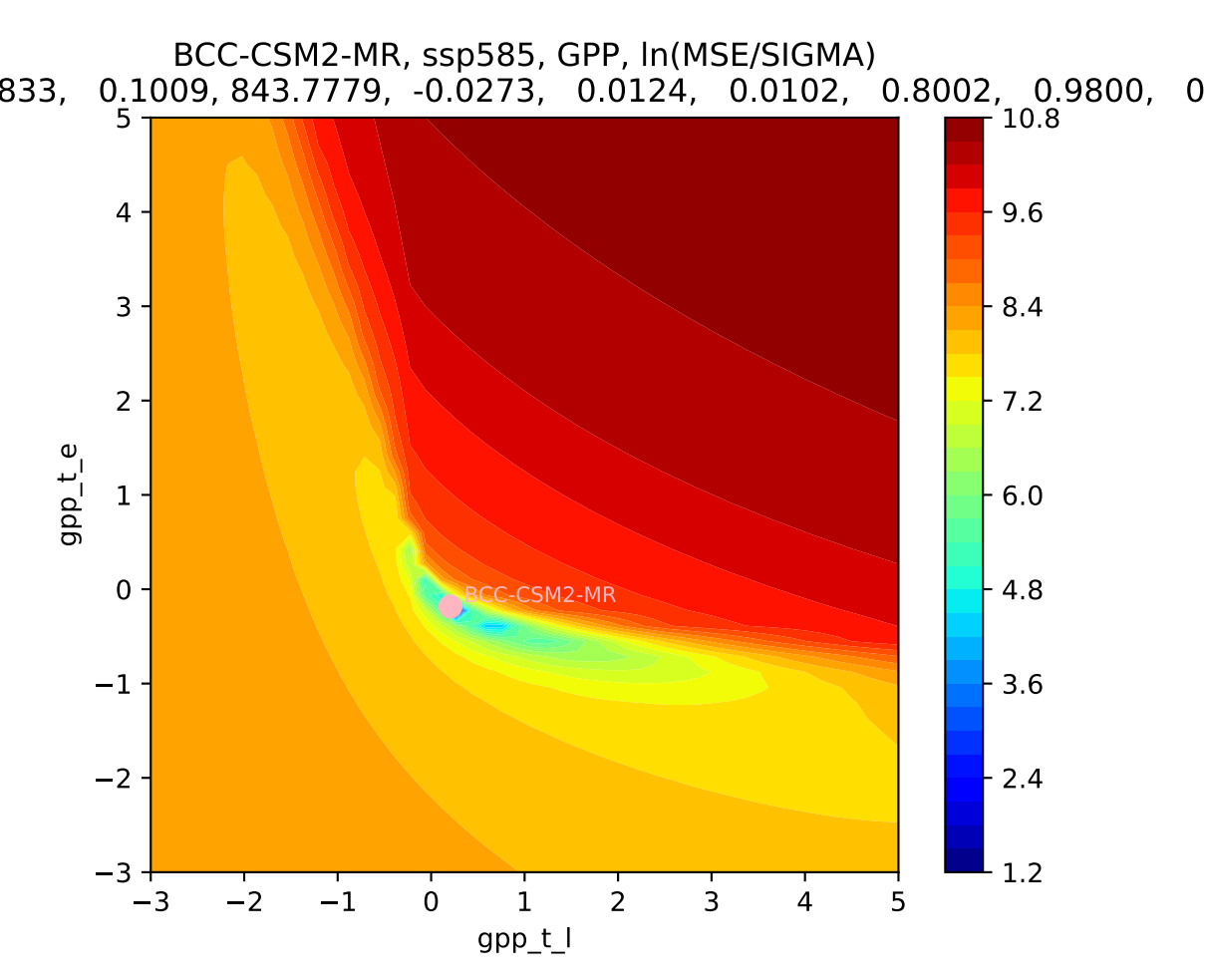

BCC-CSM2-MR, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
Year

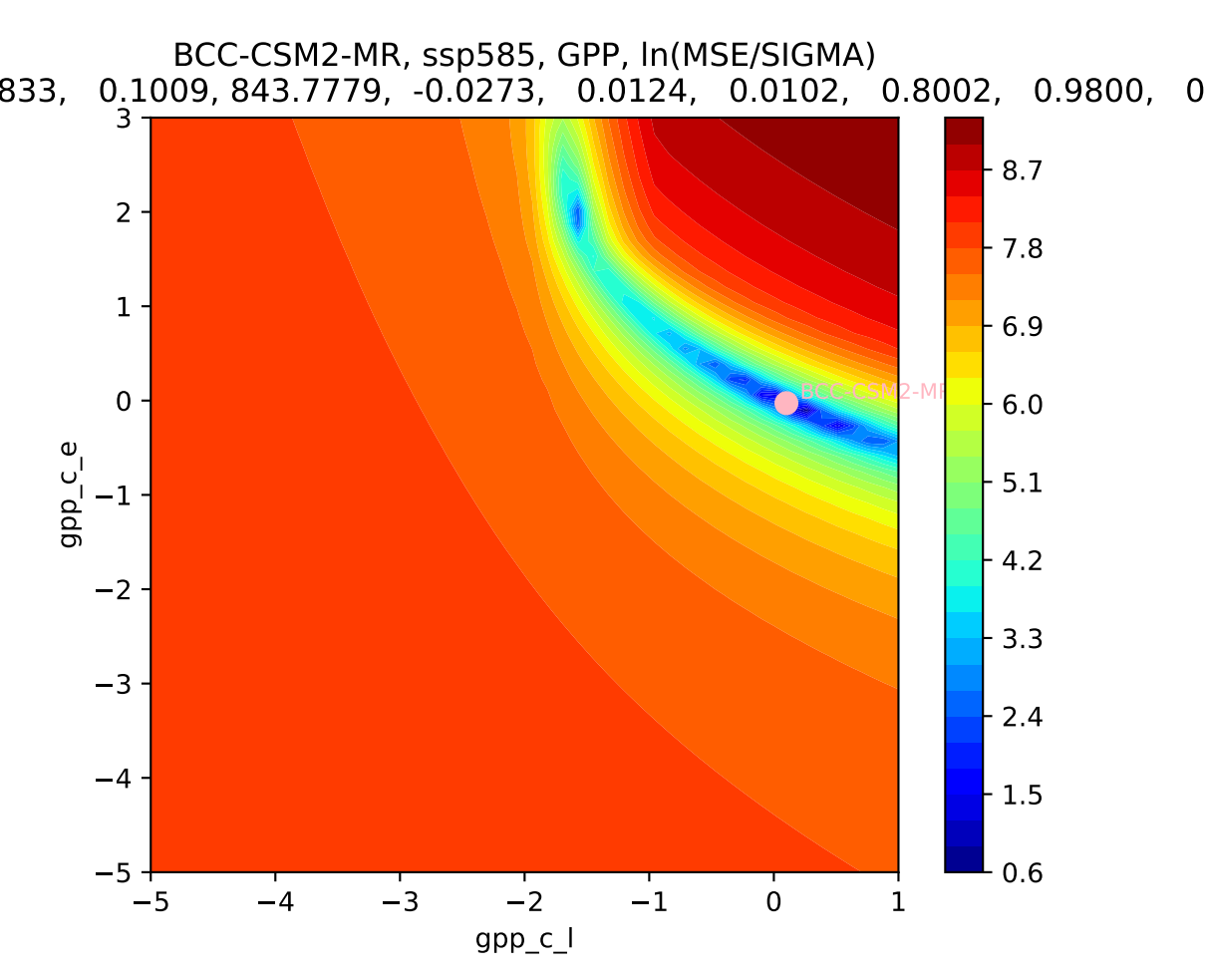

BCC-CSM2-MR, ssp585, GPP
ESM
Fit
GPP
ΔT

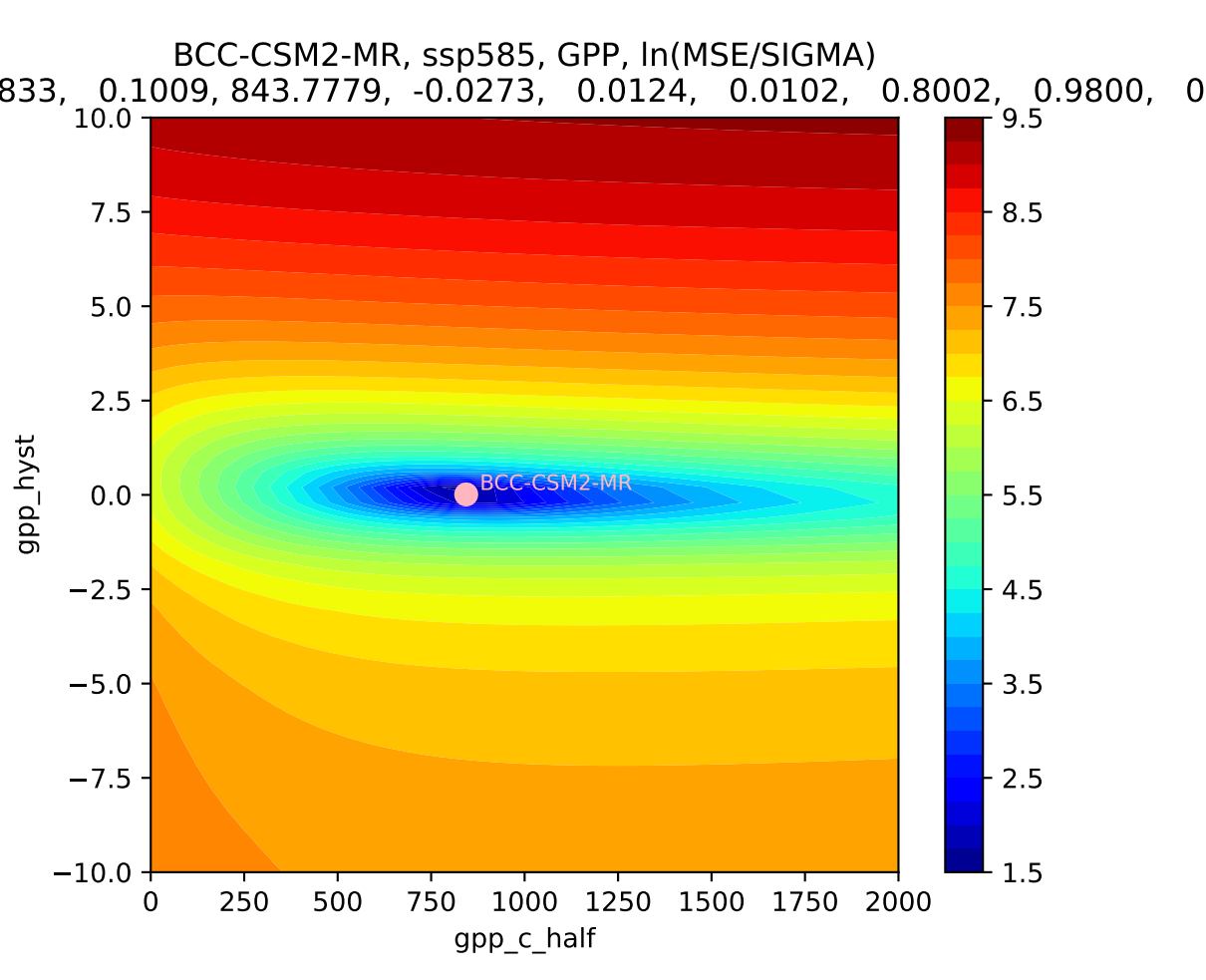

BCC-CSM2-MR, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

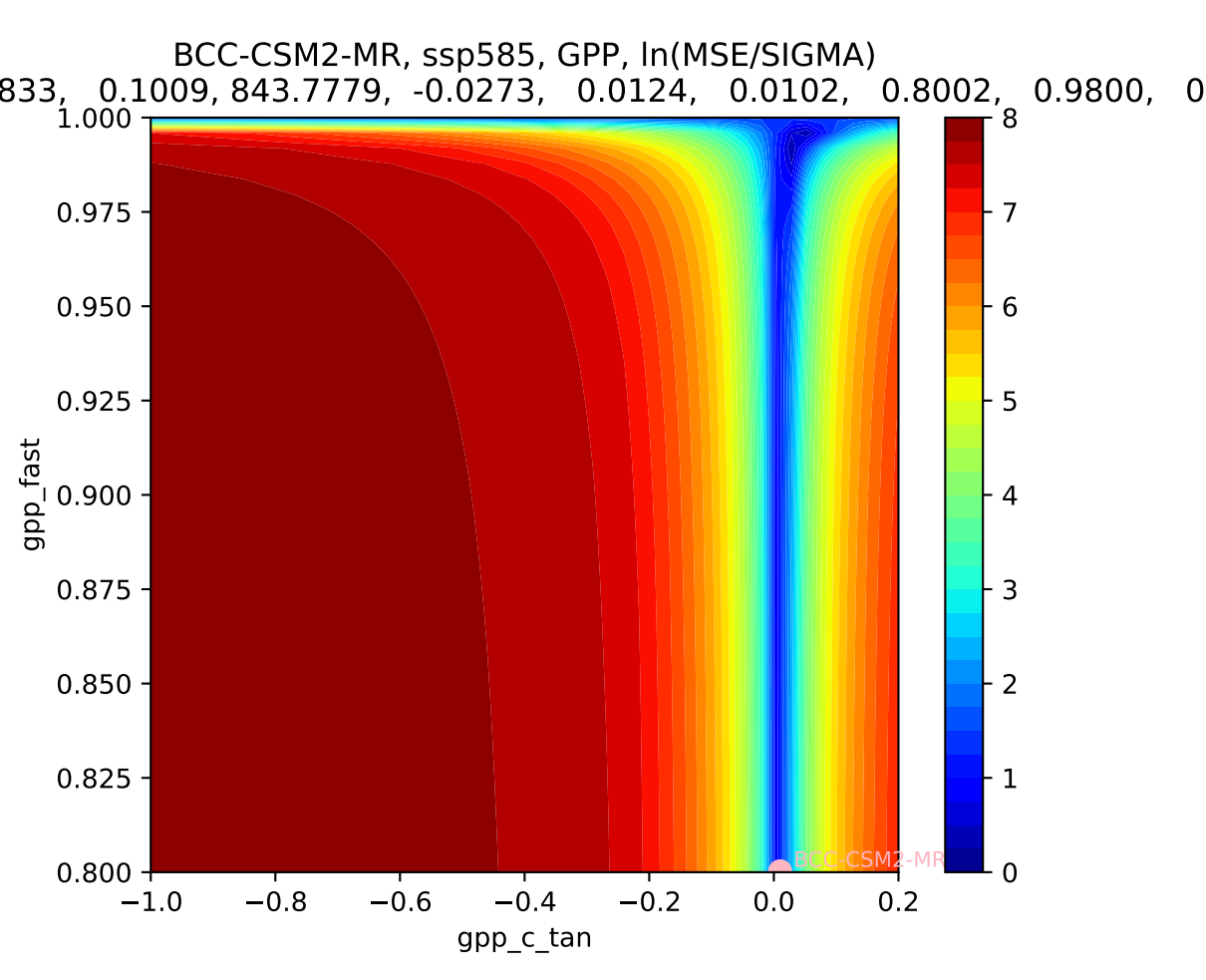

BCC-CSM2-MR, ssp585, GPP
ESM
Fit
GPP
c_atm

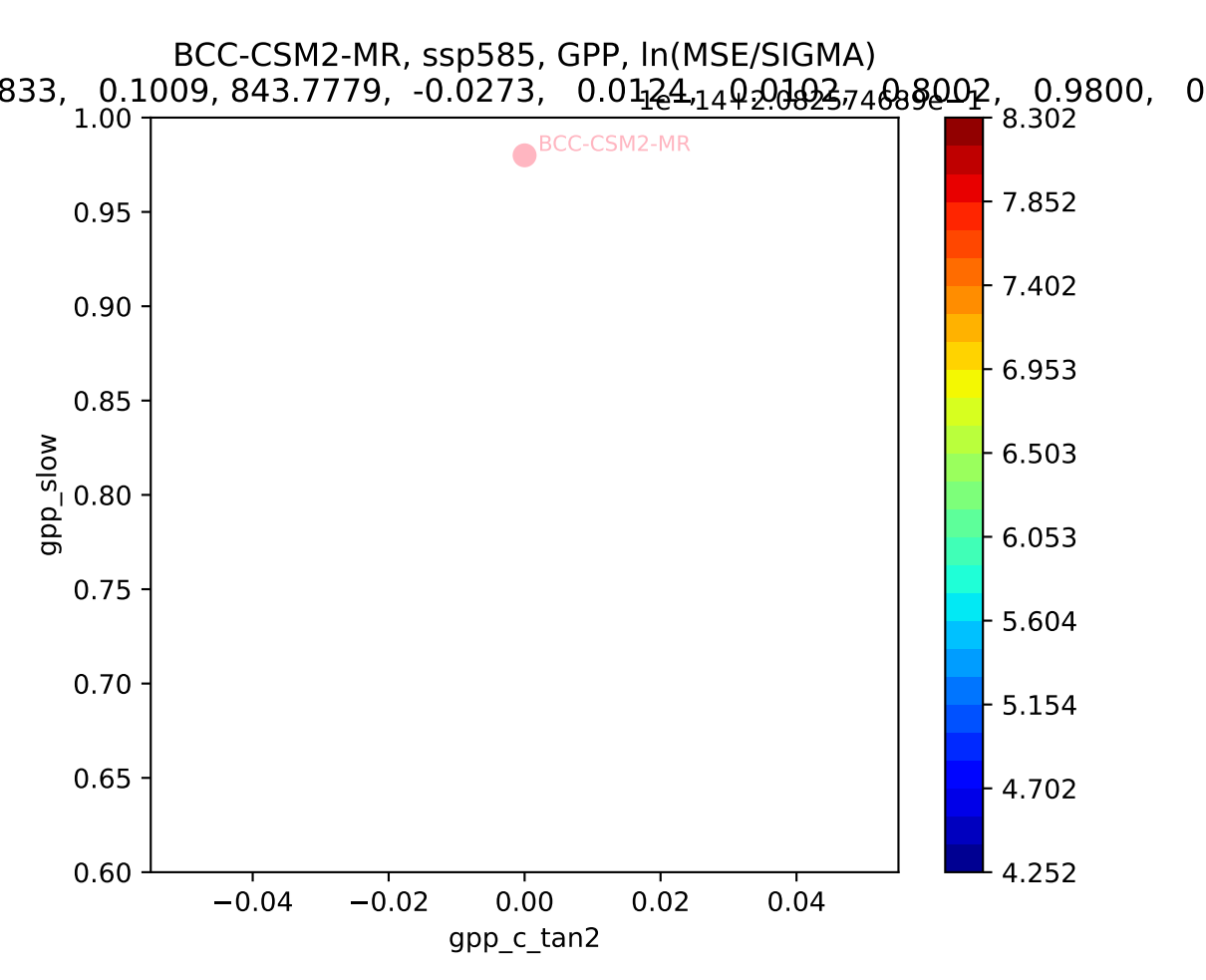

BCC-CSM2-MR, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

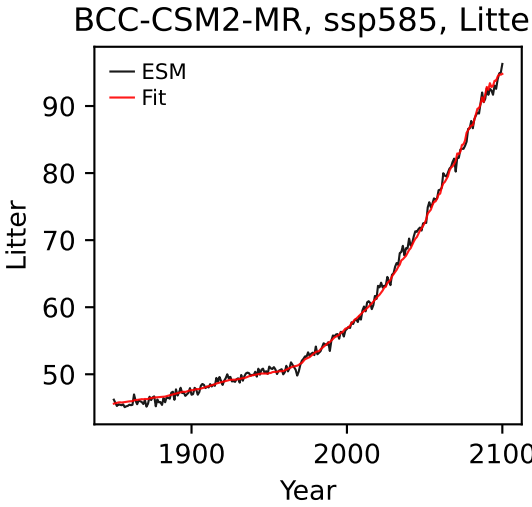

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
833, 0.1009, 843.7779, -0.0273, 0.0124, 0.0102, 0.8002, 0.9800, 0
BCC-CSM2-MR
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

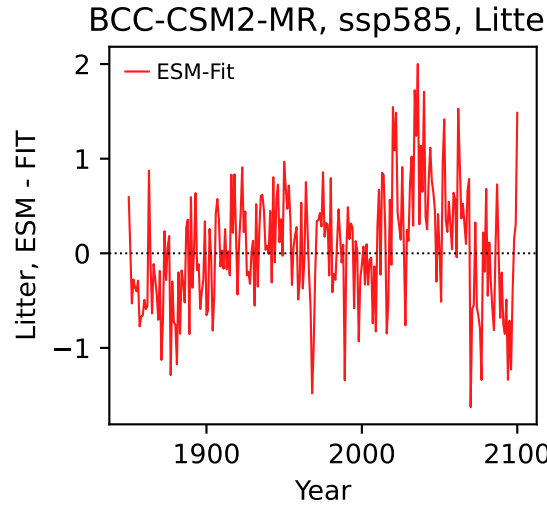

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
833, 0.1009, 843.7779, -0.0273, 0.0124, 0.0102, 0.8002, 0.9800, 0
gpp_c_e
gpp_c_l
3
2
1
0
−1
−2
−3
−4
−5
−5
−4
−3
−2
−1
0
1
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5
0.6

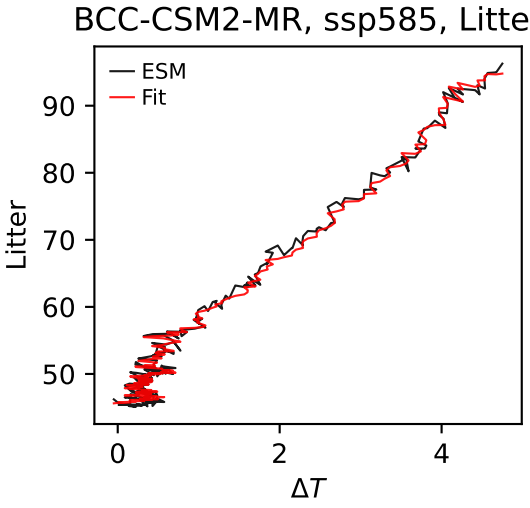

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
833, 0.1009, 843.7779, -0.0273, 0.0124, 0.0102, 0.8002, 0.9800, 0
BCC-CSM2-MR
gpp_hyst
gpp_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
9.5
8.5
7.5
6.5
5.5
4.5
3.5
2.5
1.5

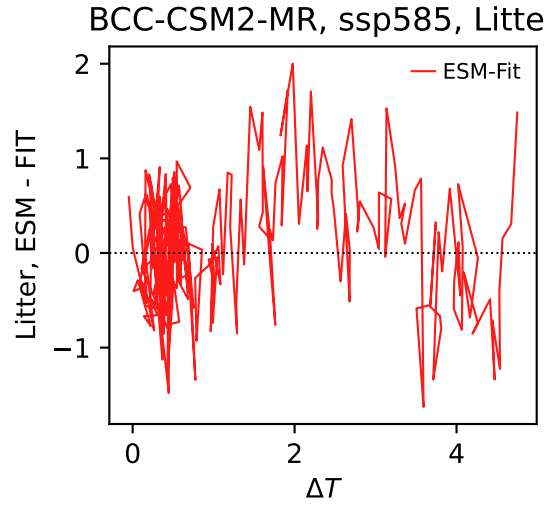

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
833, 0.1009, 843.7779, -0.0273, 0.0124, 0.0102, 0.8002, 0.9800, 0
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
gpp_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
gpp_c_tan
8
7
6
5
4
3
2
1
0
BCC-CSM2-MR

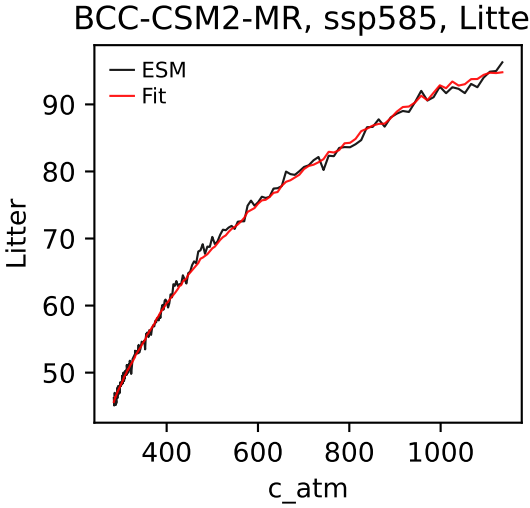

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
833, 0.1009, 843.7779, -0.0273, 0.0124, 0.0102, 0.8002, 0.9800, 0
1e−14+2.0825746689e−1
BCC-CSM2-MR
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
gpp_slow
−0.04
−0.02
0.00
0.02
0.04
gpp_c_tan2
8.302
7.852
7.402
6.953
6.503
6.053
5.604
5.154
4.702
4.252

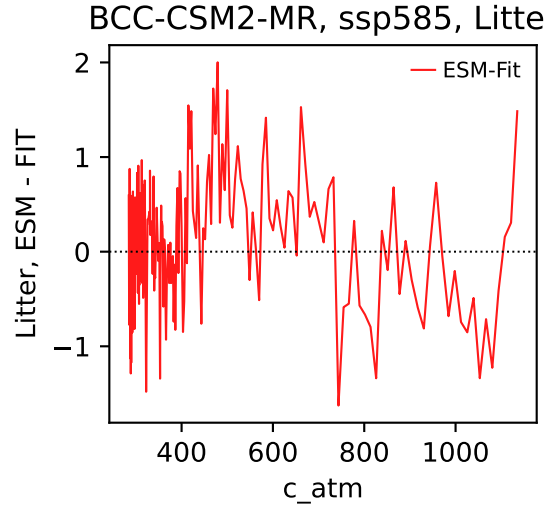

BCC-CSM2-MR, ssp585, Litter
ESM
Fit
Litter
Year

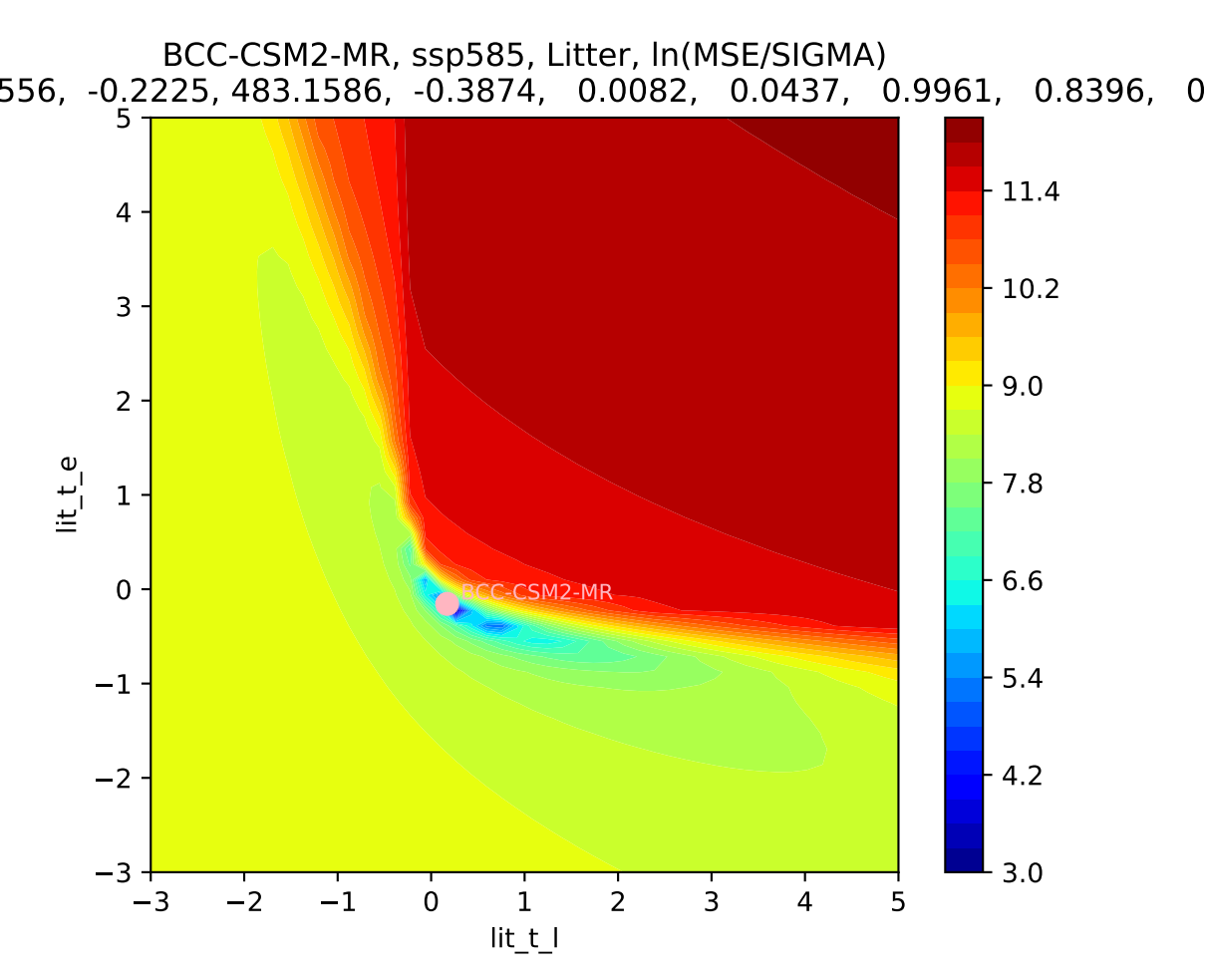

BCC-CSM2-MR, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
Year

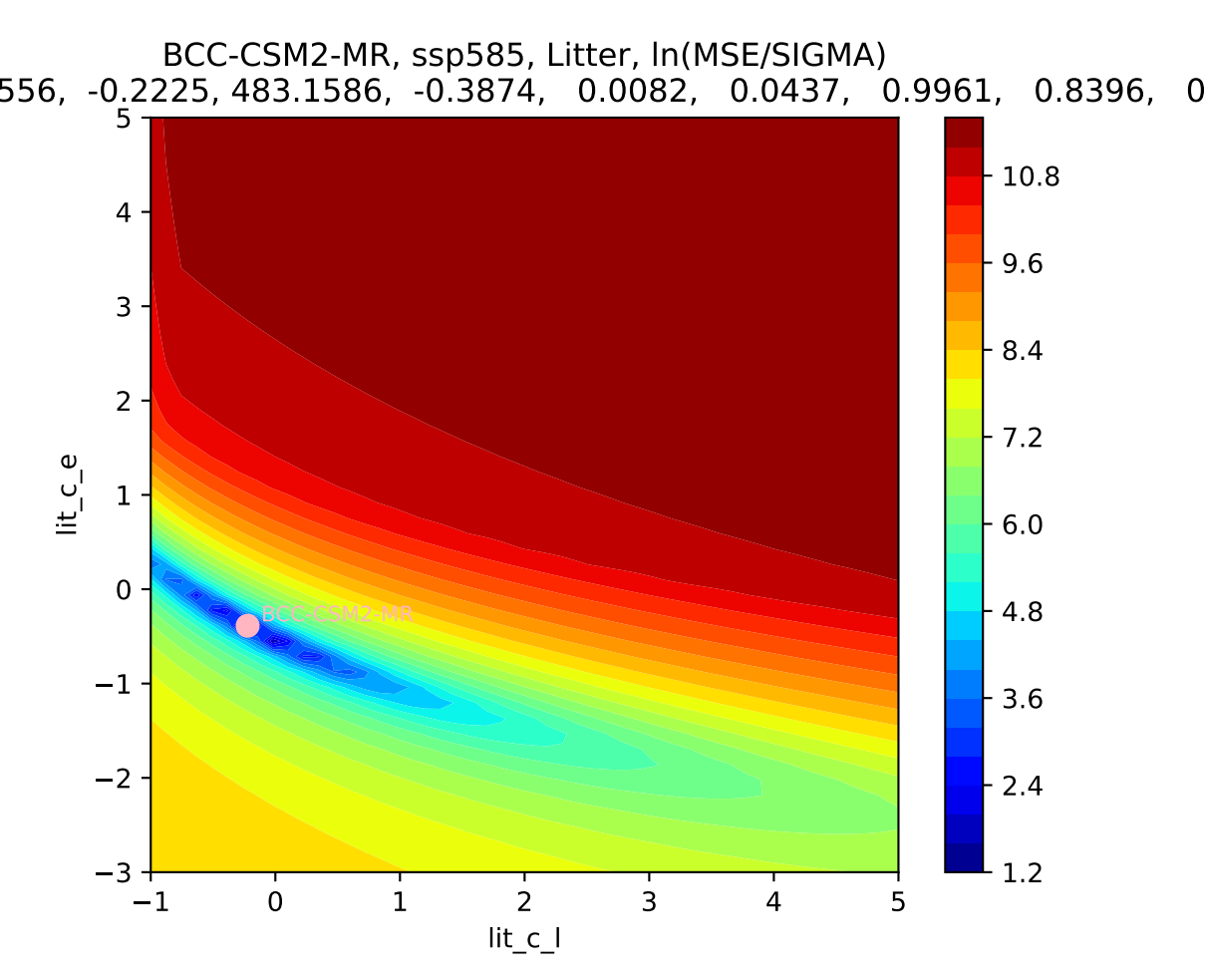

BCC-CSM2-MR, ssp585, Litter
ESM
Fit
Litter
ΔT

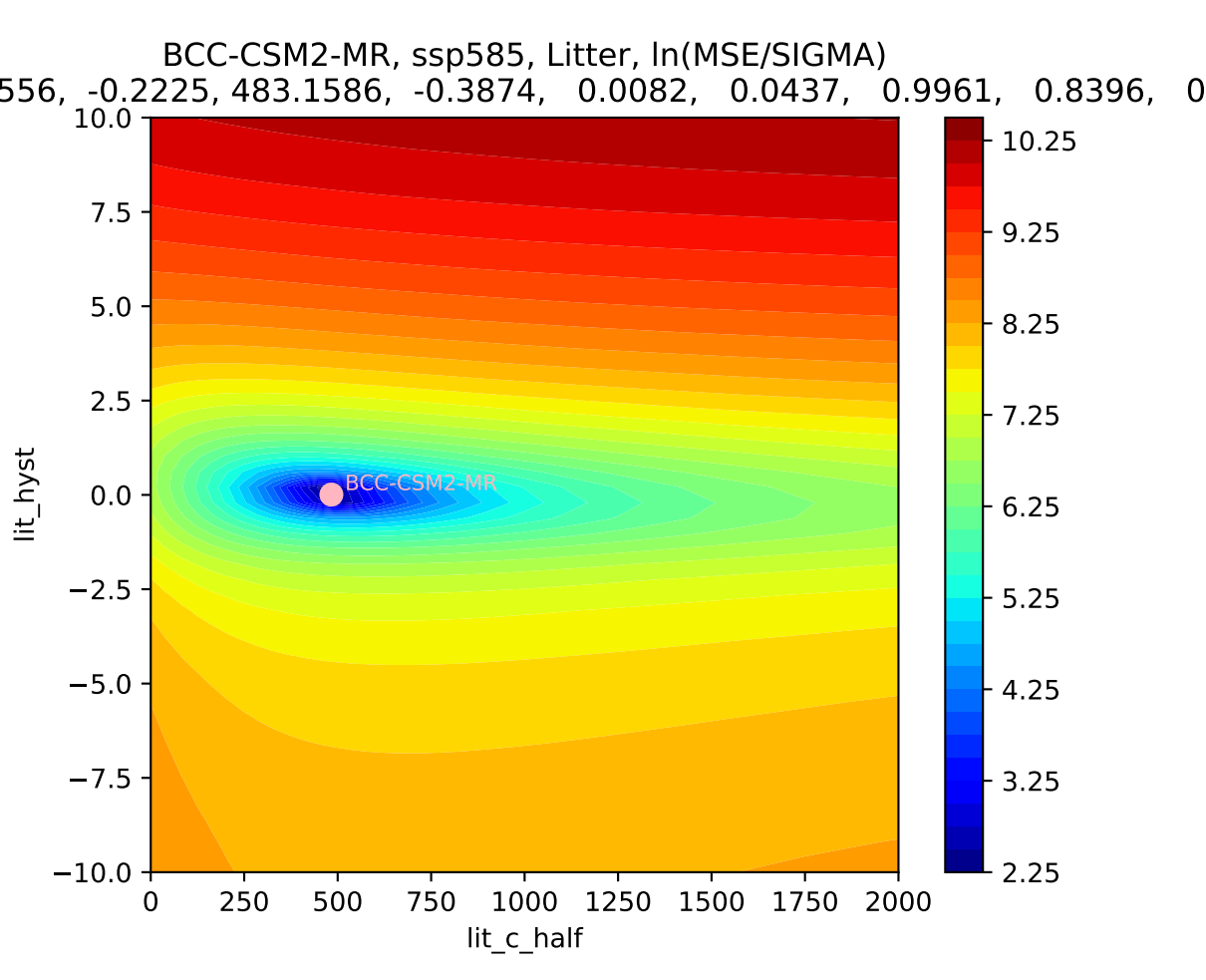

BCC-CSM2-MR, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

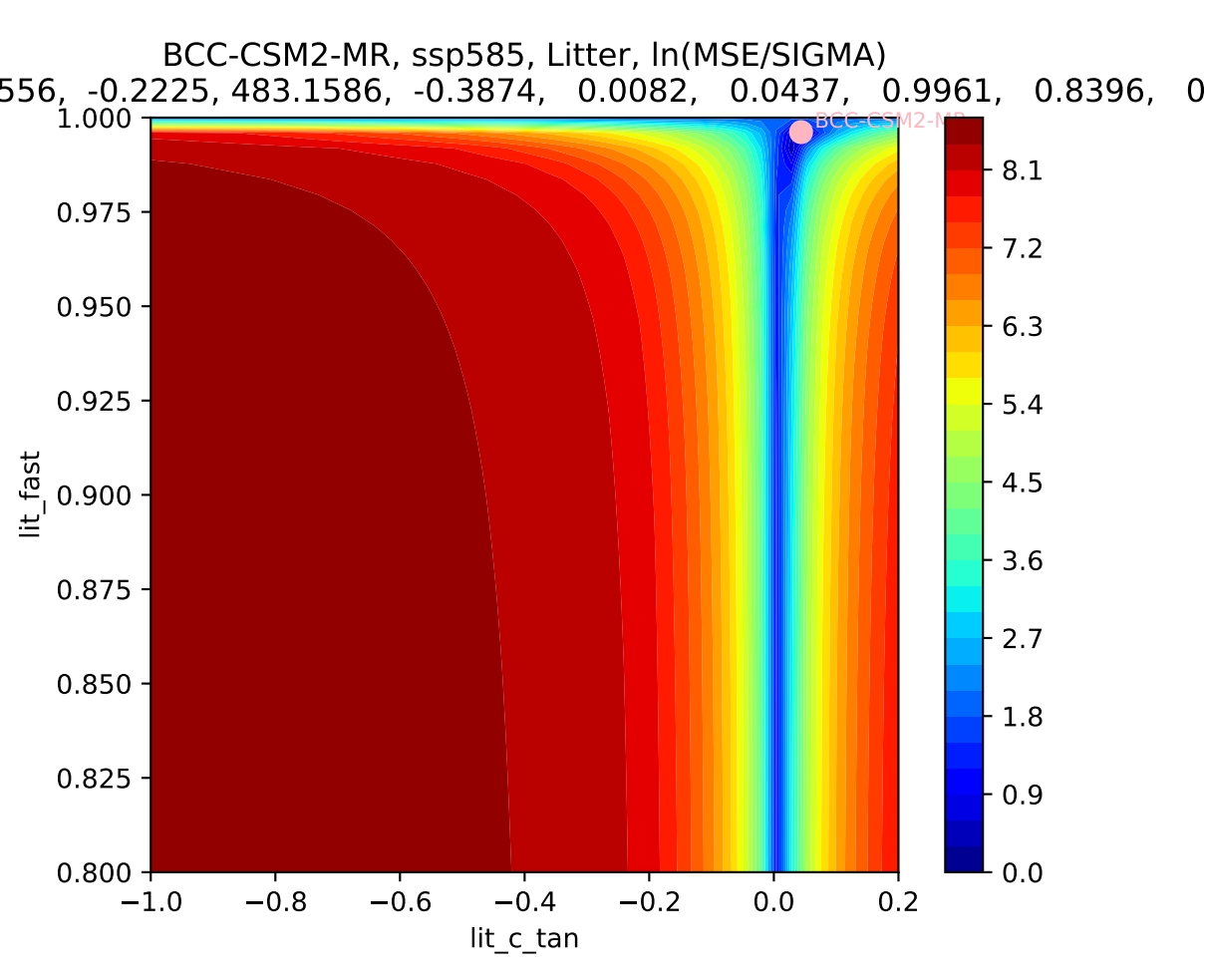

BCC-CSM2-MR, ssp585, Litter
ESM
Fit
Litter
c_atm

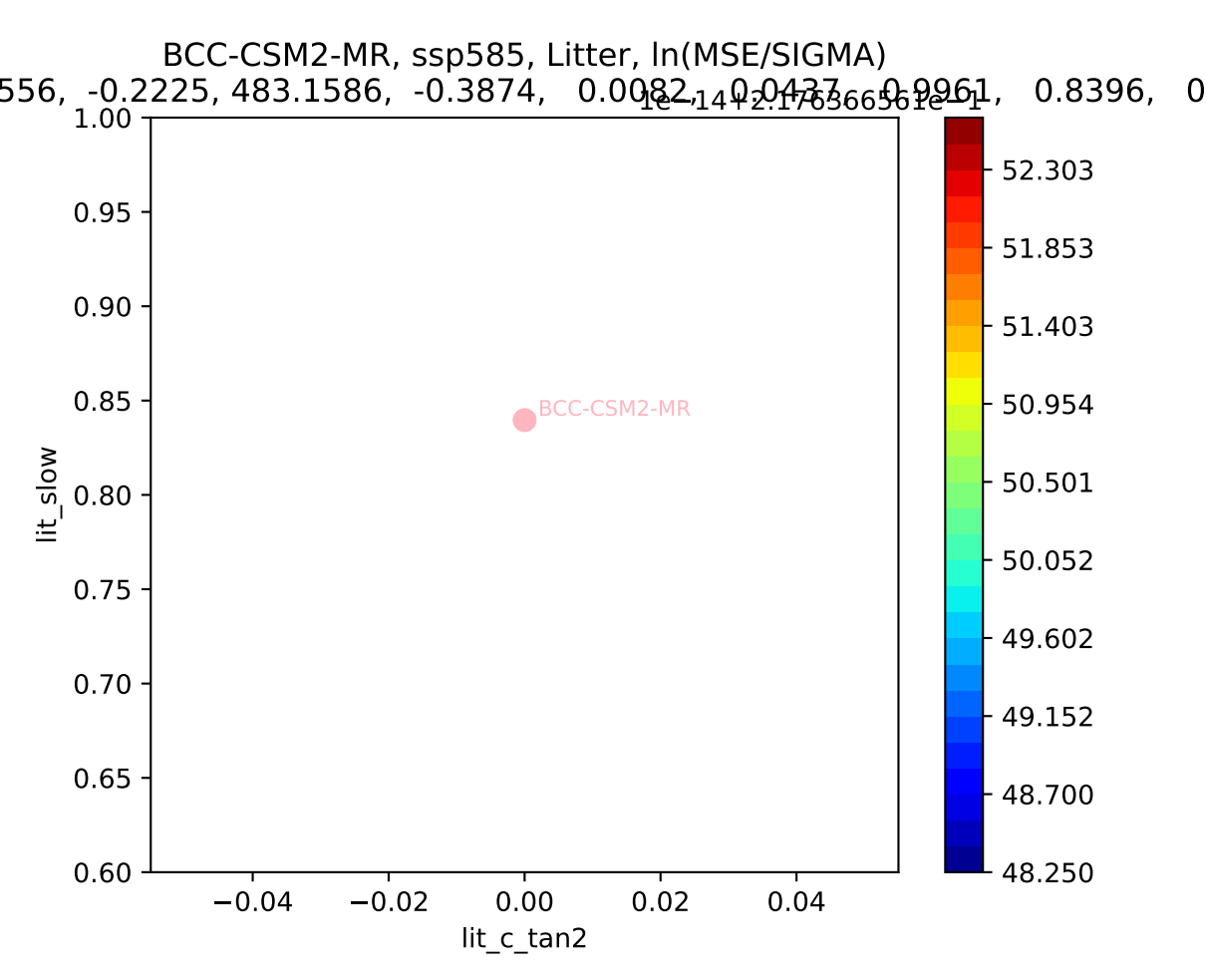

BCC-CSM2-MR, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

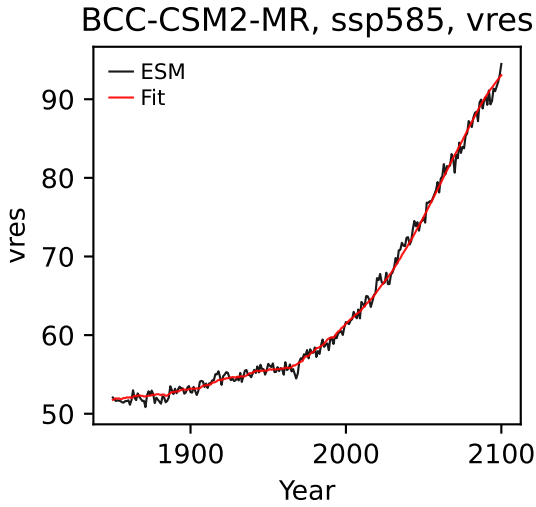

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
556, -0.2225, 483.1586, -0.3874, 0.0082, 0.0437, 0.9961, 0.8396, 0
BCC-CSM2-MR
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
11.4
10.2
9.0
7.8
6.6
5.4
4.2
3.0

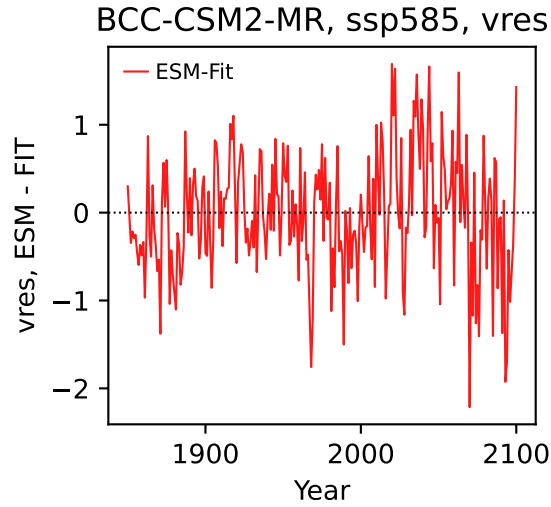

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
556, -0.2225, 483.1586, -0.3874, 0.0082, 0.0437, 0.9961, 0.8396, 0
lit_c_e
lit_c_l
BCC-CSM2-MR
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

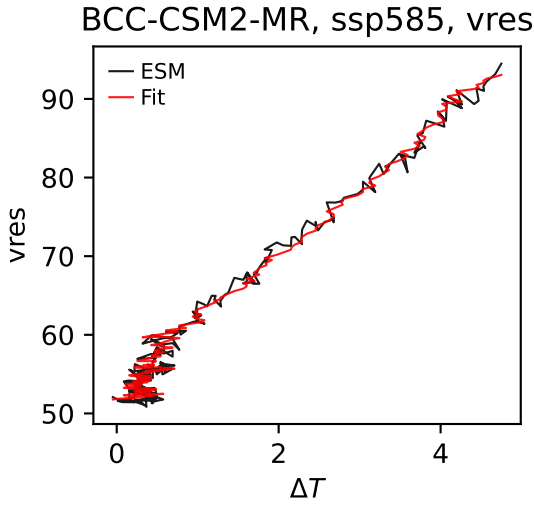

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
556, -0.2225, 483.1586, -0.3874, 0.0082, 0.0437, 0.9961, 0.8396, 0
BCC-CSM2-MR
lit_hyst
lit_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
10.25
9.25
8.25
7.25
6.25
5.25
4.25
3.25
2.25

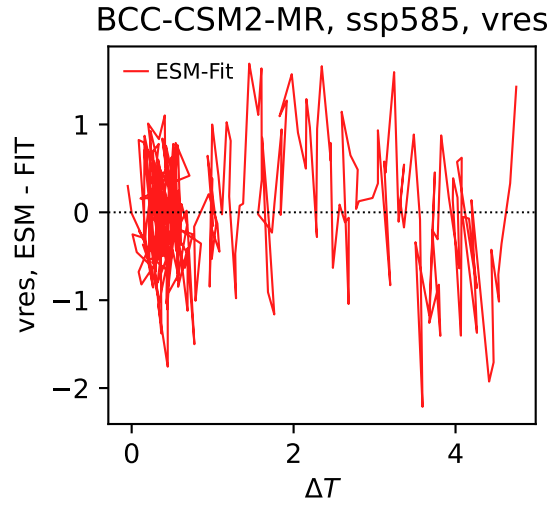

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
556, -0.2225, 483.1586, -0.3874, 0.0082, 0.0437, 0.9961, 0.8396, 0
BCC-CSM2-MR
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
lit_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
lit_c_tan
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8
0.9
0.0

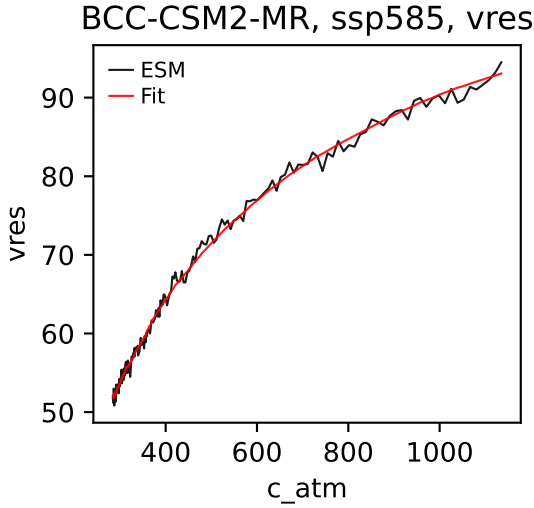

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
556, -0.2225, 483.1586, -0.3874, 0.0082, 0.0437, 0.9961, 0.8396, 0
1e−14+2.176366561e−1
BCC-CSM2-MR
lit_slow
lit_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
52.303
51.853
51.403
50.954
50.501
50.052
49.602
49.152
48.700
48.250

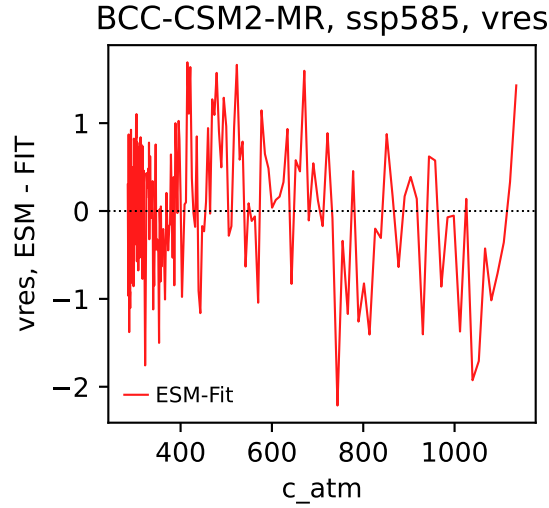

BCC-CSM2-MR, ssp585, vres
ESM
Fit
vres
Year

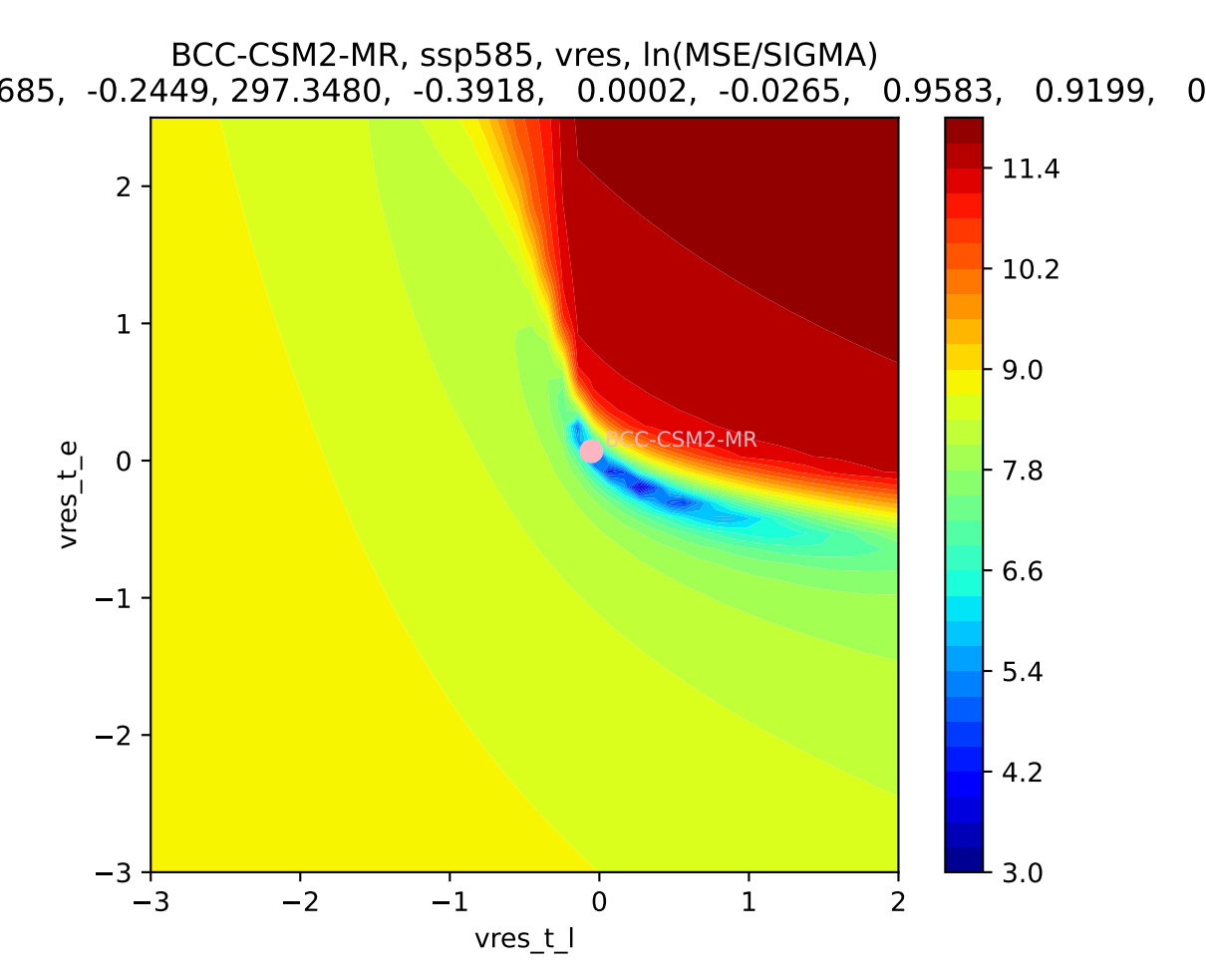

BCC-CSM2-MR, ssp585, vres
ESM-Fit
vres, ESM - FIT
Year

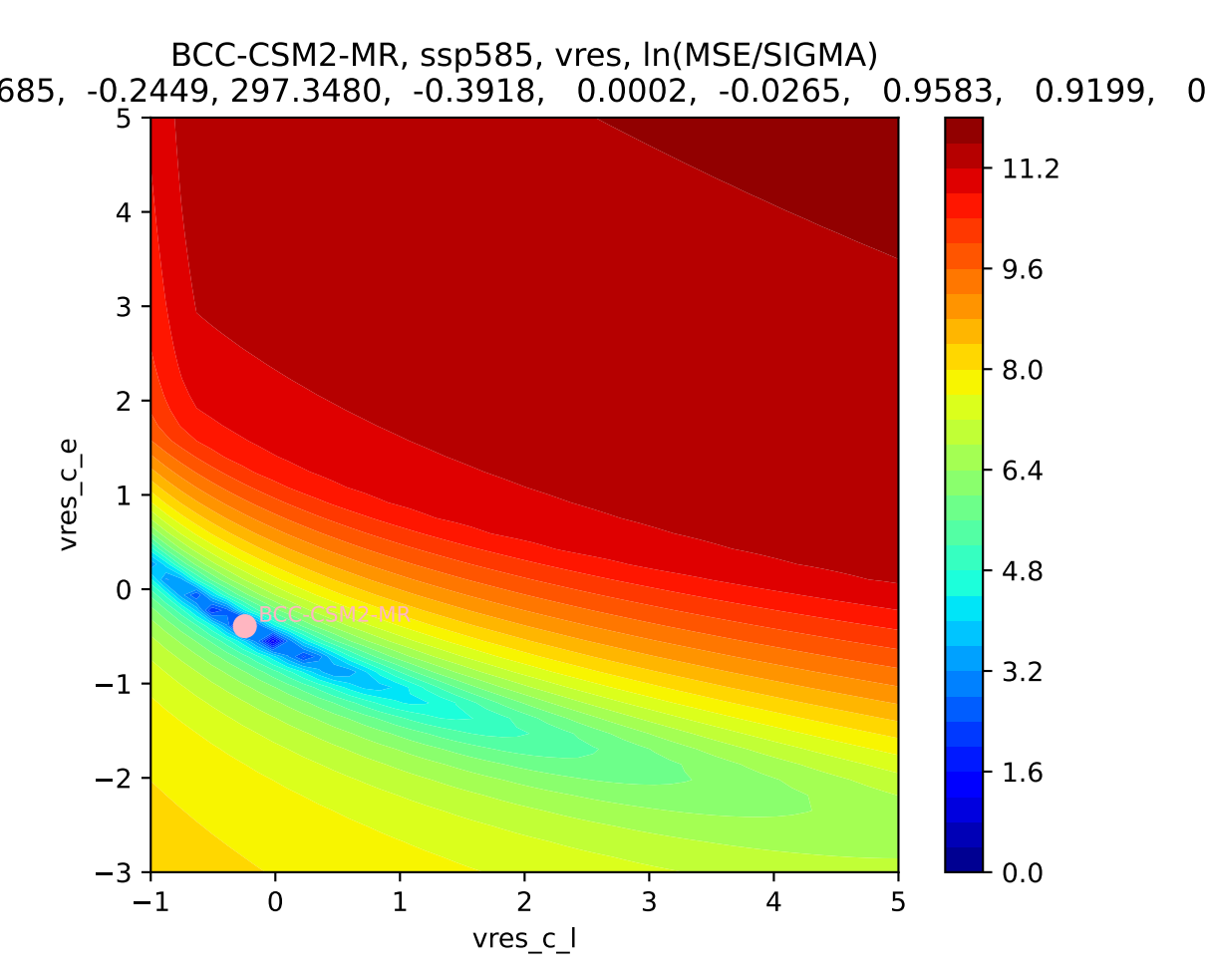

BCC-CSM2-MR, ssp585, vres
ESM
Fit
vres
ΔT

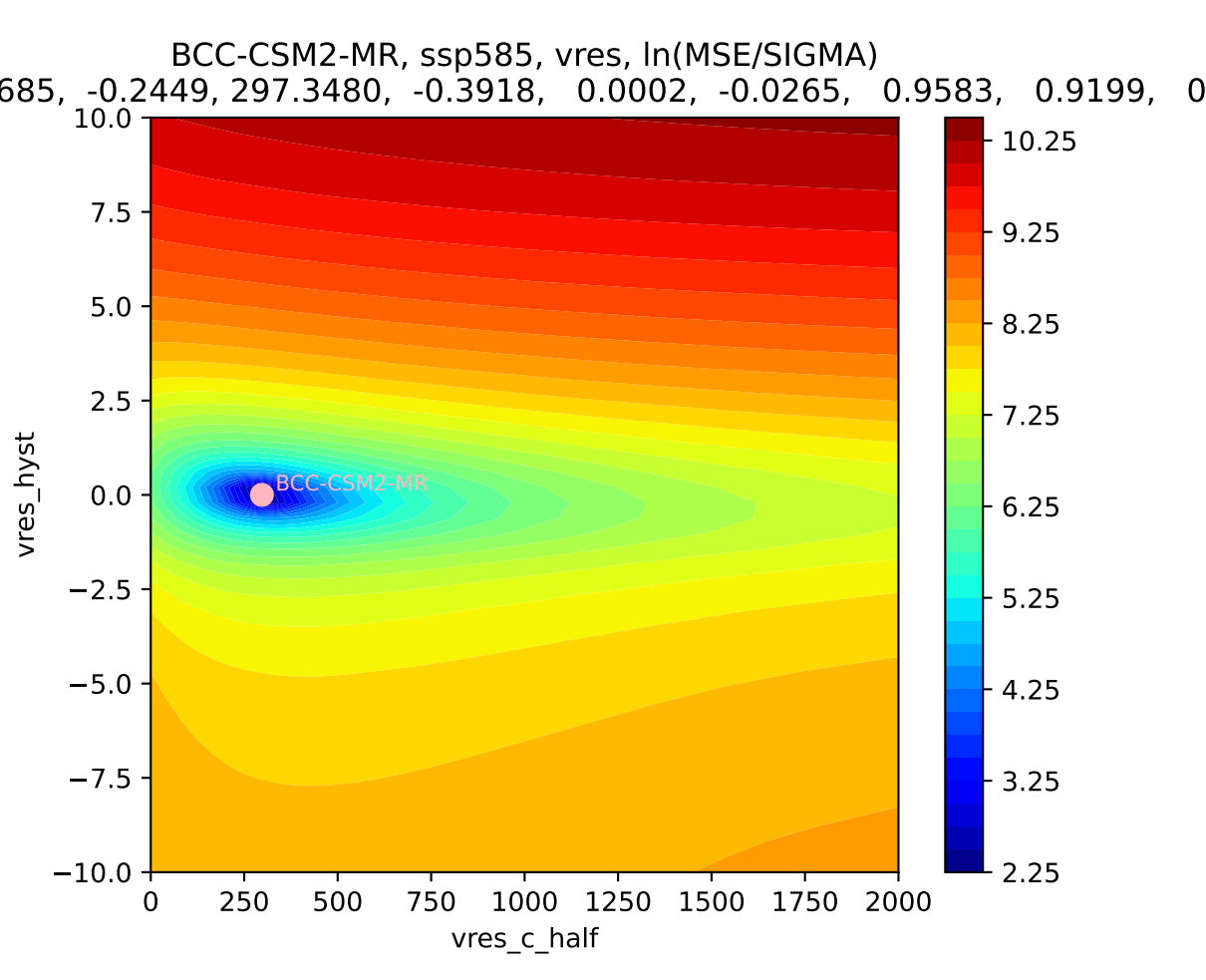

BCC-CSM2-MR, ssp585, vres
ESM-Fit
vres, ESM - FIT
ΔT

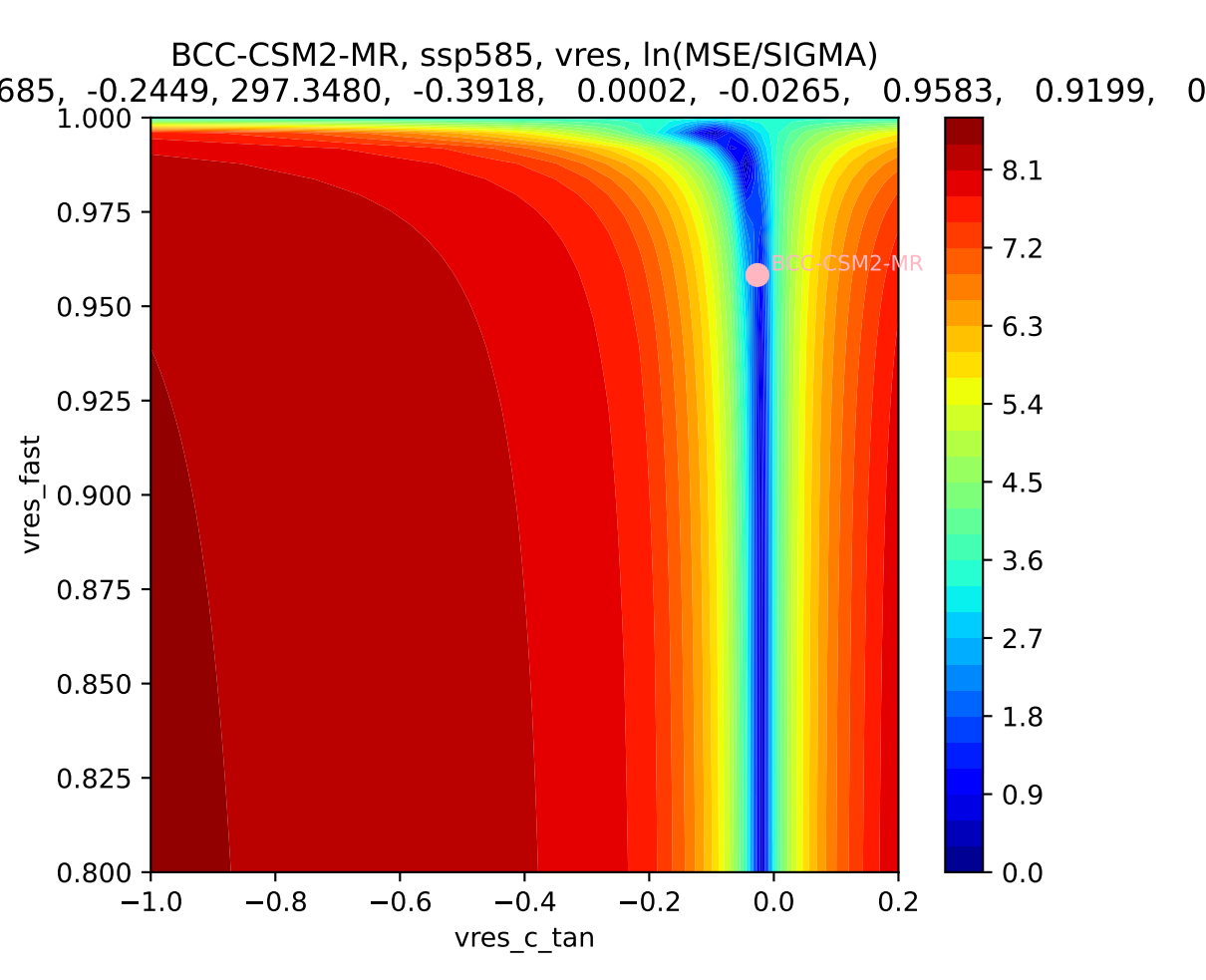

BCC-CSM2-MR, ssp585, vres
ESM
Fit
vres
c_atm

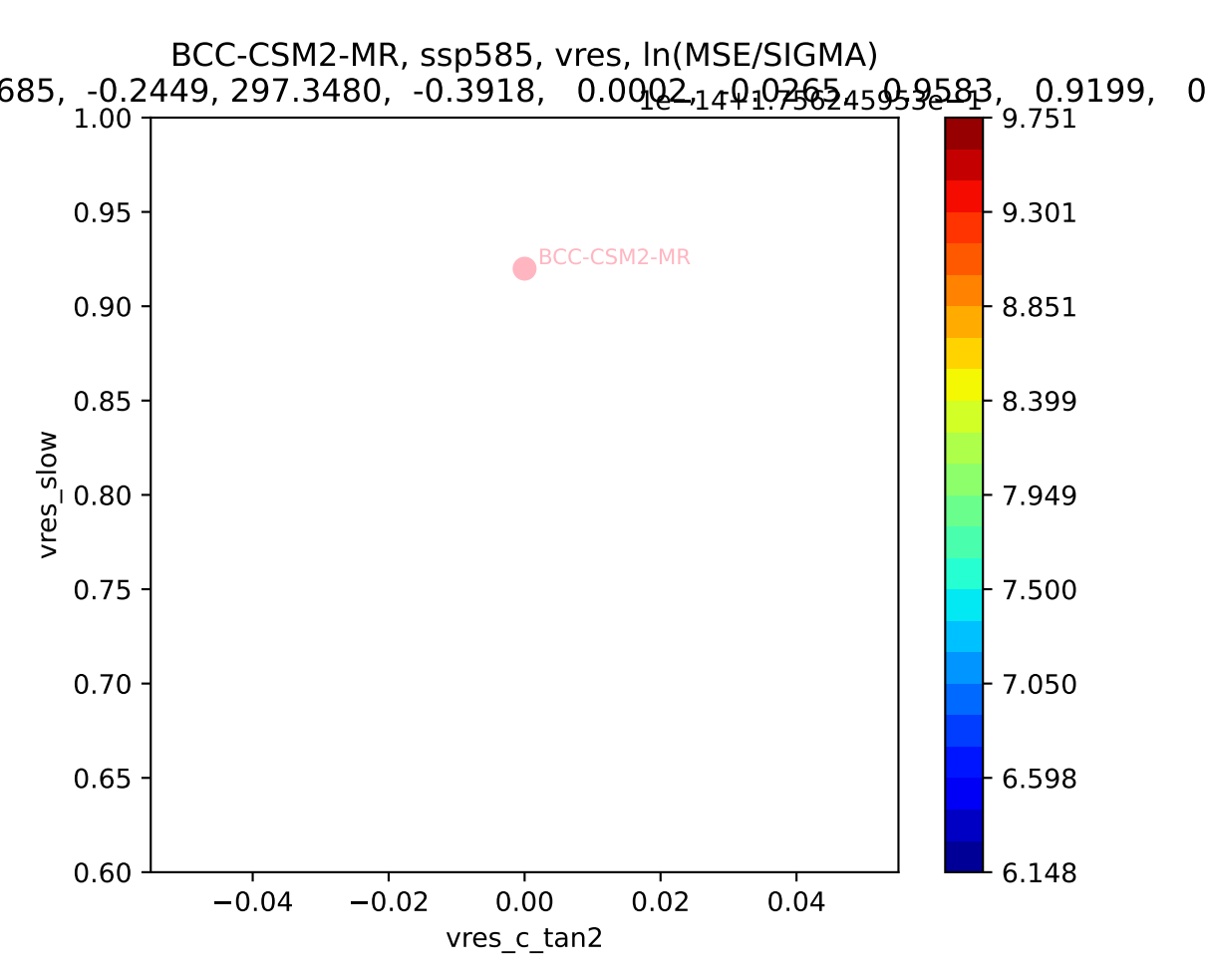

BCC-CSM2-MR, ssp585, vres
ESM-Fit
vres, ESM - FIT
c_atm

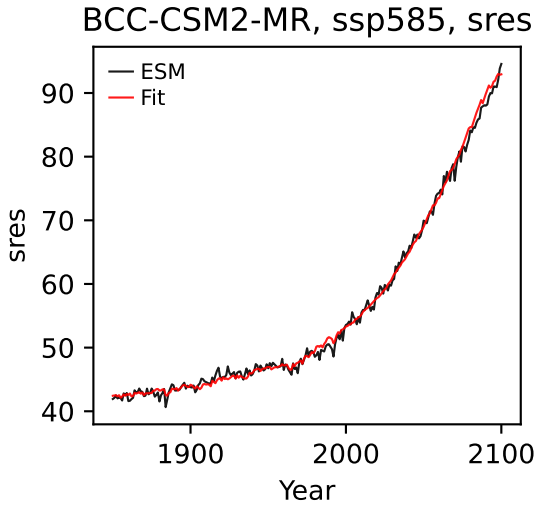

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
685, -0.2449, 297.3480, -0.3918, 0.0002, -0.0265, 0.9583, 0.9199, 0
BCC-CSM2-MR
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
11.4
10.2
9.0
7.8
6.6
5.4
4.2
3.0

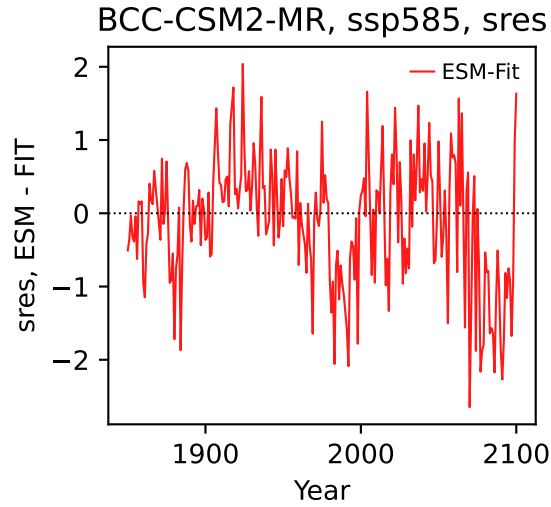

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
685, -0.2449, 297.3480, -0.3918, 0.0002, -0.0265, 0.9583, 0.9199, 0
BCC-CSM2-MR
vres_c_e
vres_c_l
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
11.2
9.6
8.0
6.4
4.8
3.2
1.6
0.0

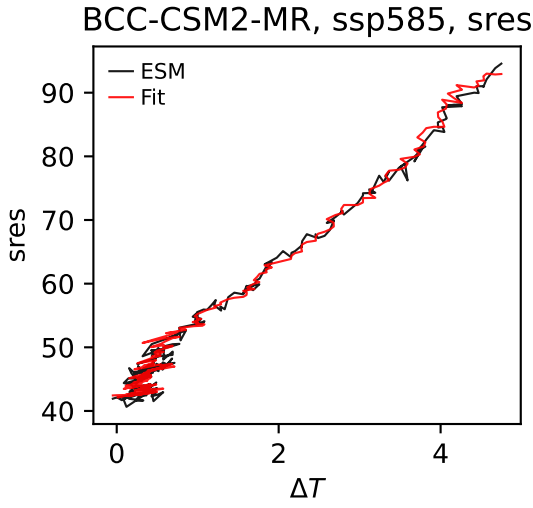

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
685, -0.2449, 297.3480, -0.3918, 0.0002, -0.0265, 0.9583, 0.9199, 0
BCC-CSM2-MR
vres_hyst
vres_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
10.25
9.25
8.25
7.25
6.25
5.25
4.25
3.25
2.25

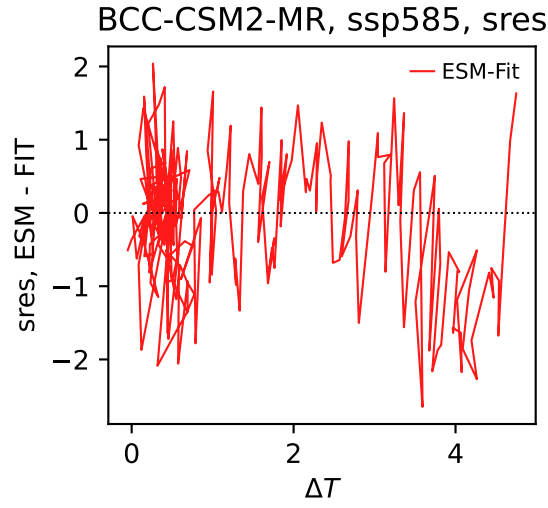

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
685, -0.2449, 297.3480, -0.3918, 0.0002, -0.0265, 0.9583, 0.9199, 0
BCC-CSM2-MR
vres_fast
vres_c_tan
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8
0.9
0.0

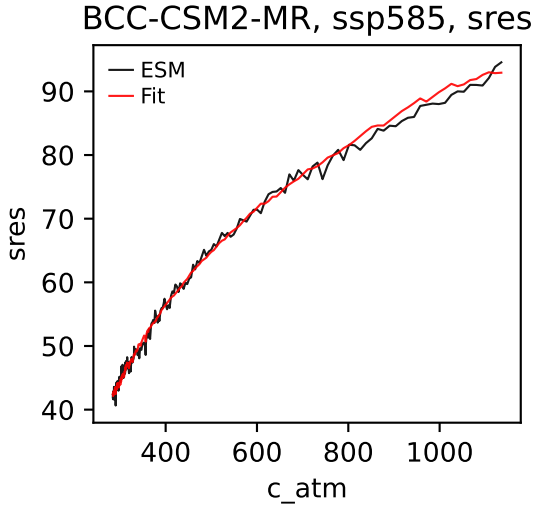

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
685, -0.2449, 297.3480, -0.3918, 0.0002, -0.0265, 0.9583, 0.9199, 0
1e−14+1.75624593e−1
BCC-CSM2-MR
vres_slow
vres_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
9.751
9.301
8.851
8.399
7.949
7.500
7.050
6.598
6.148

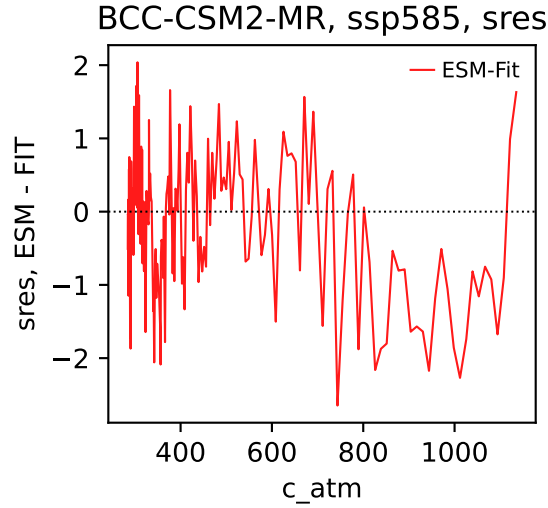

BCC-CSM2-MR, ssp585, sres
ESM
Fit
sres
Year

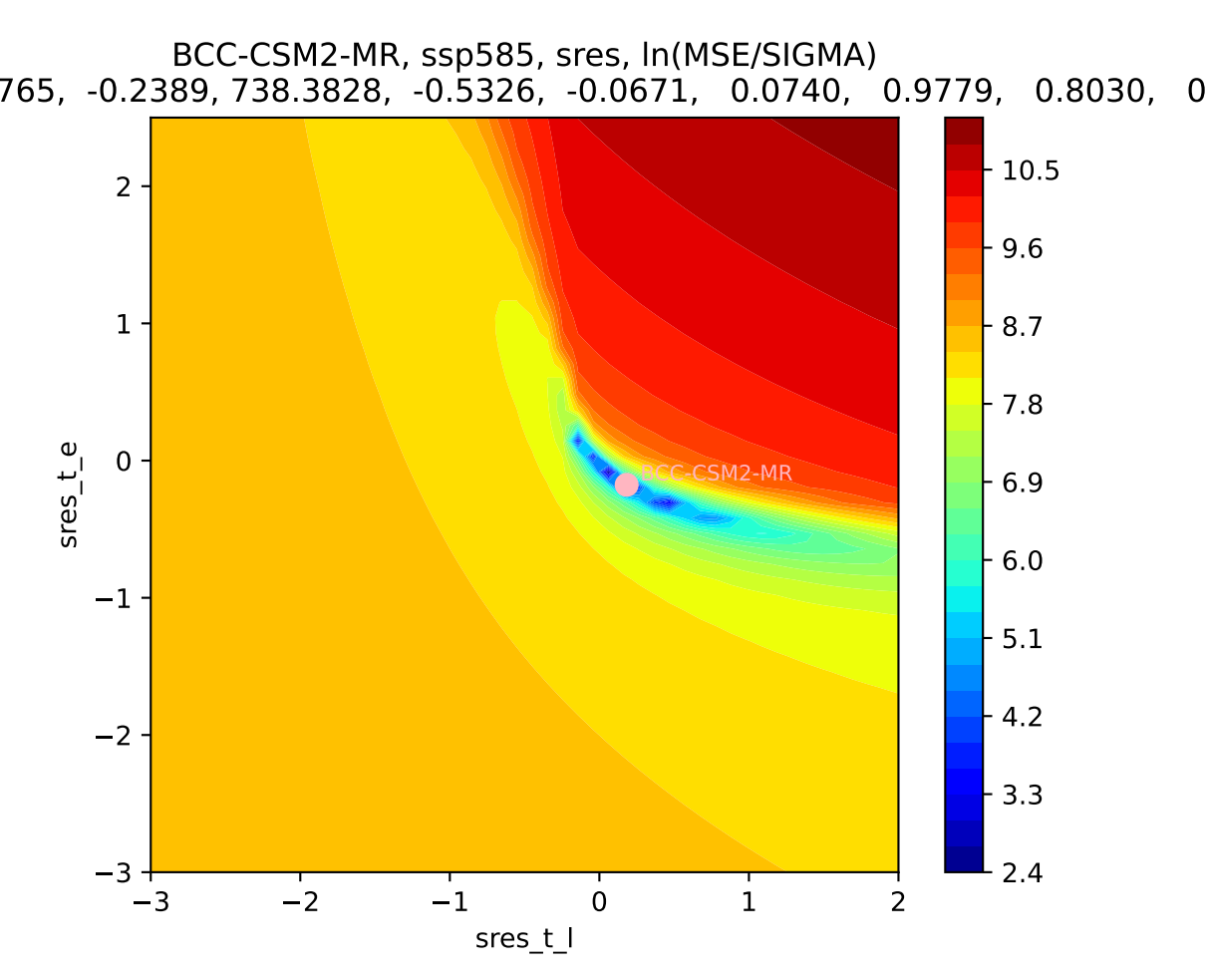

BCC-CSM2-MR, ssp585, sres
ESM-Fit
sres, ESM - FIT
Year

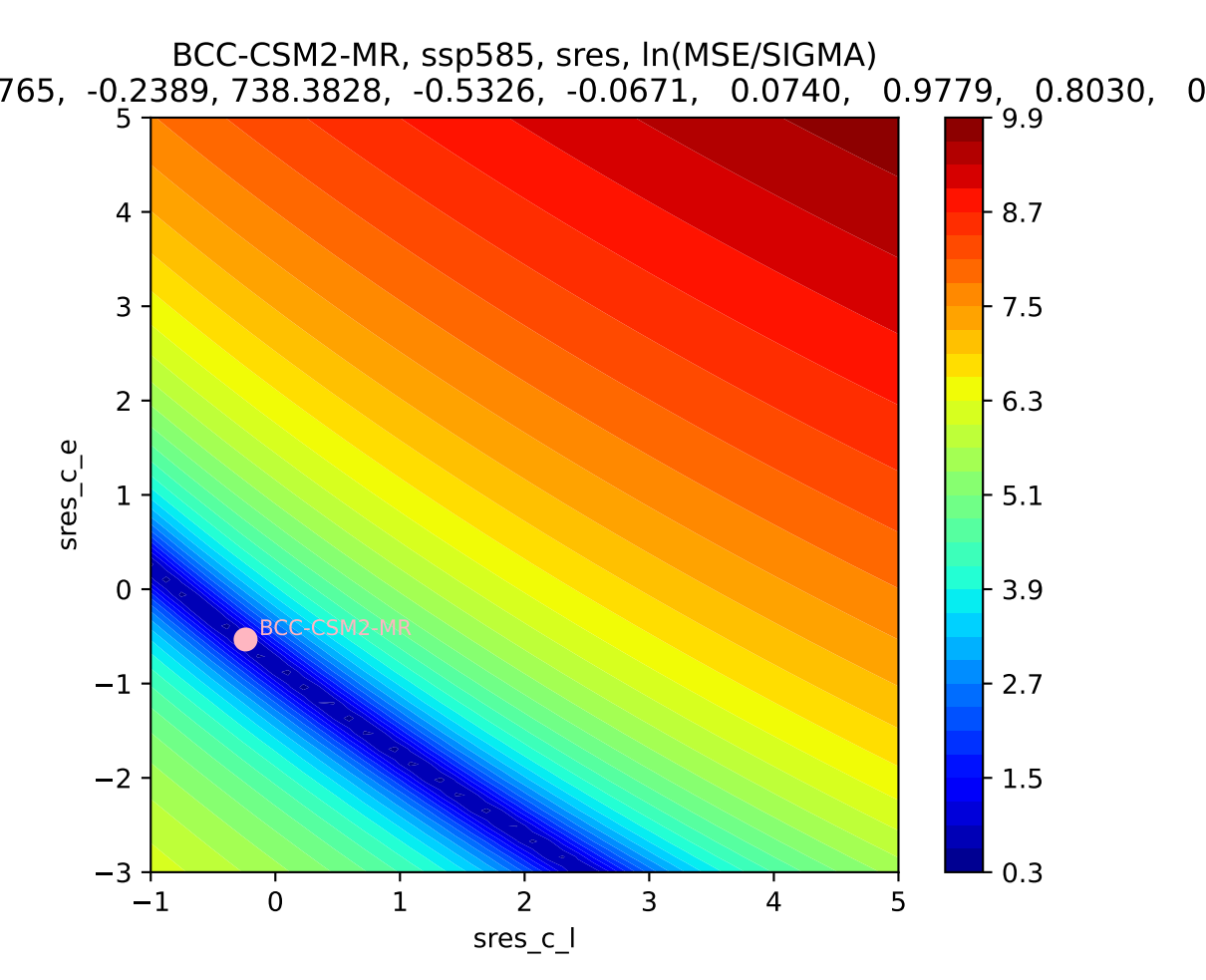

BCC-CSM2-MR, ssp585, sres
ESM
Fit
sres
ΔT

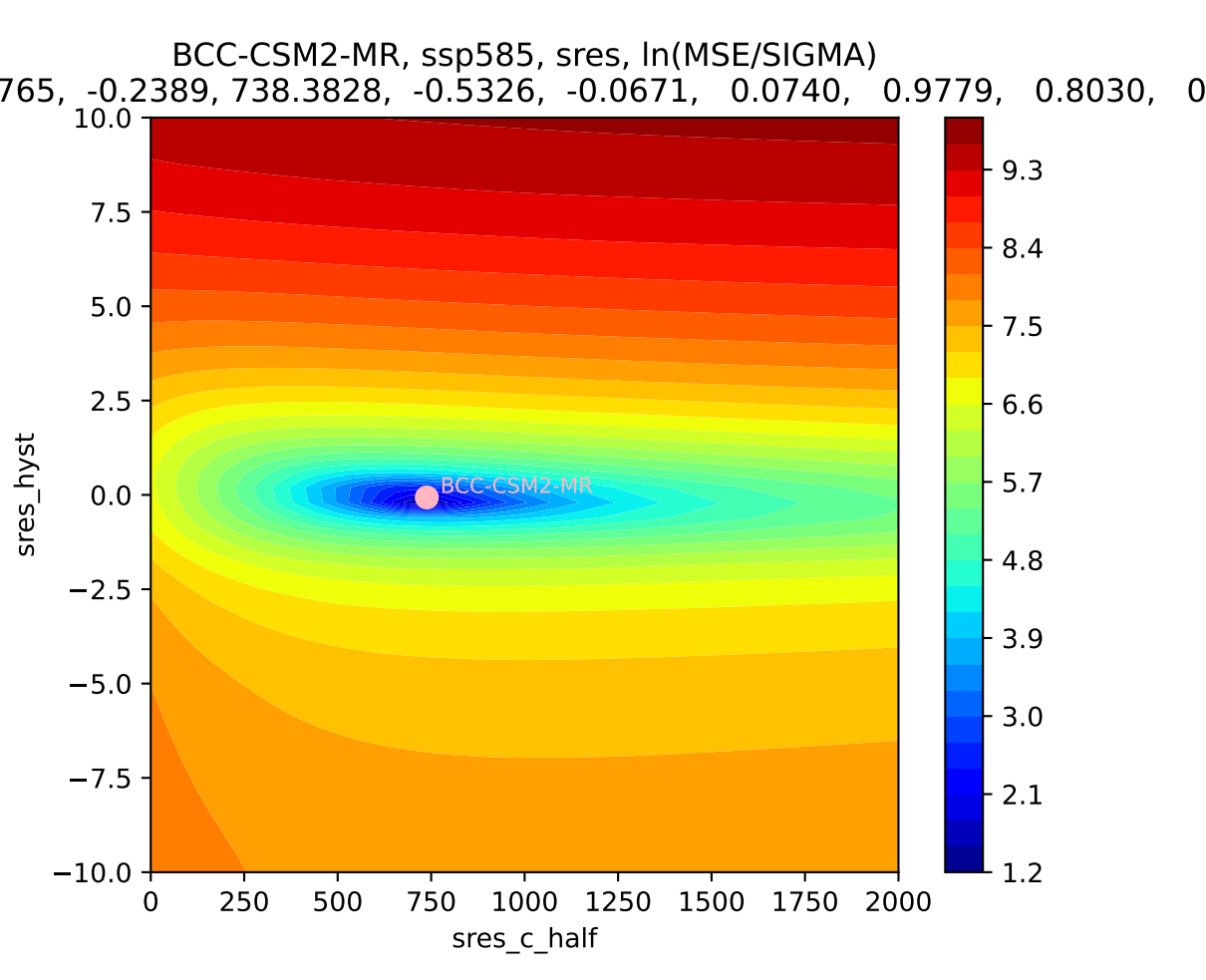

BCC-CSM2-MR, ssp585, sres
ESM-Fit
sres, ESM - FIT
ΔT

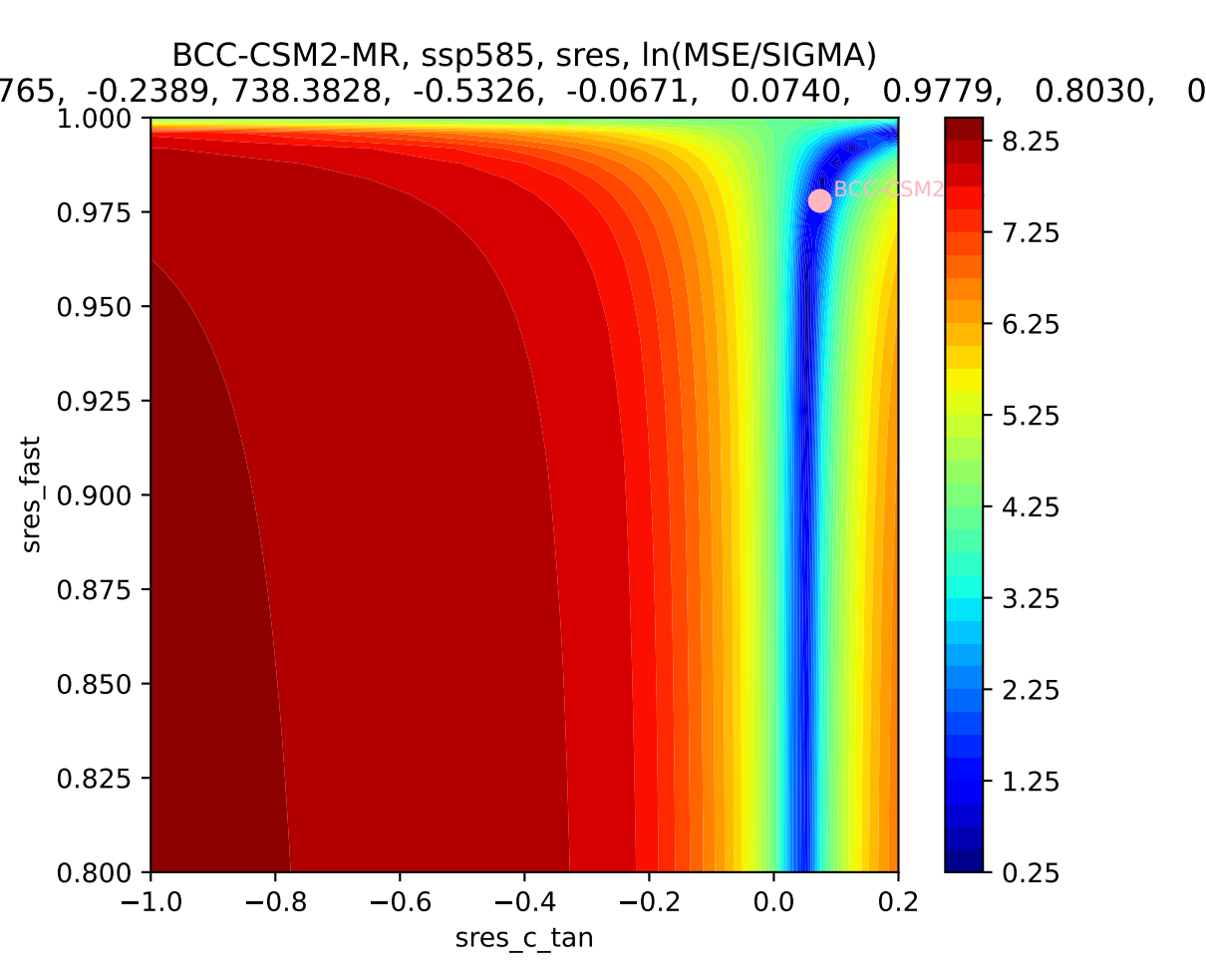

BCC-CSM2-MR, ssp585, sres
ESM
Fit
sres
c_atm

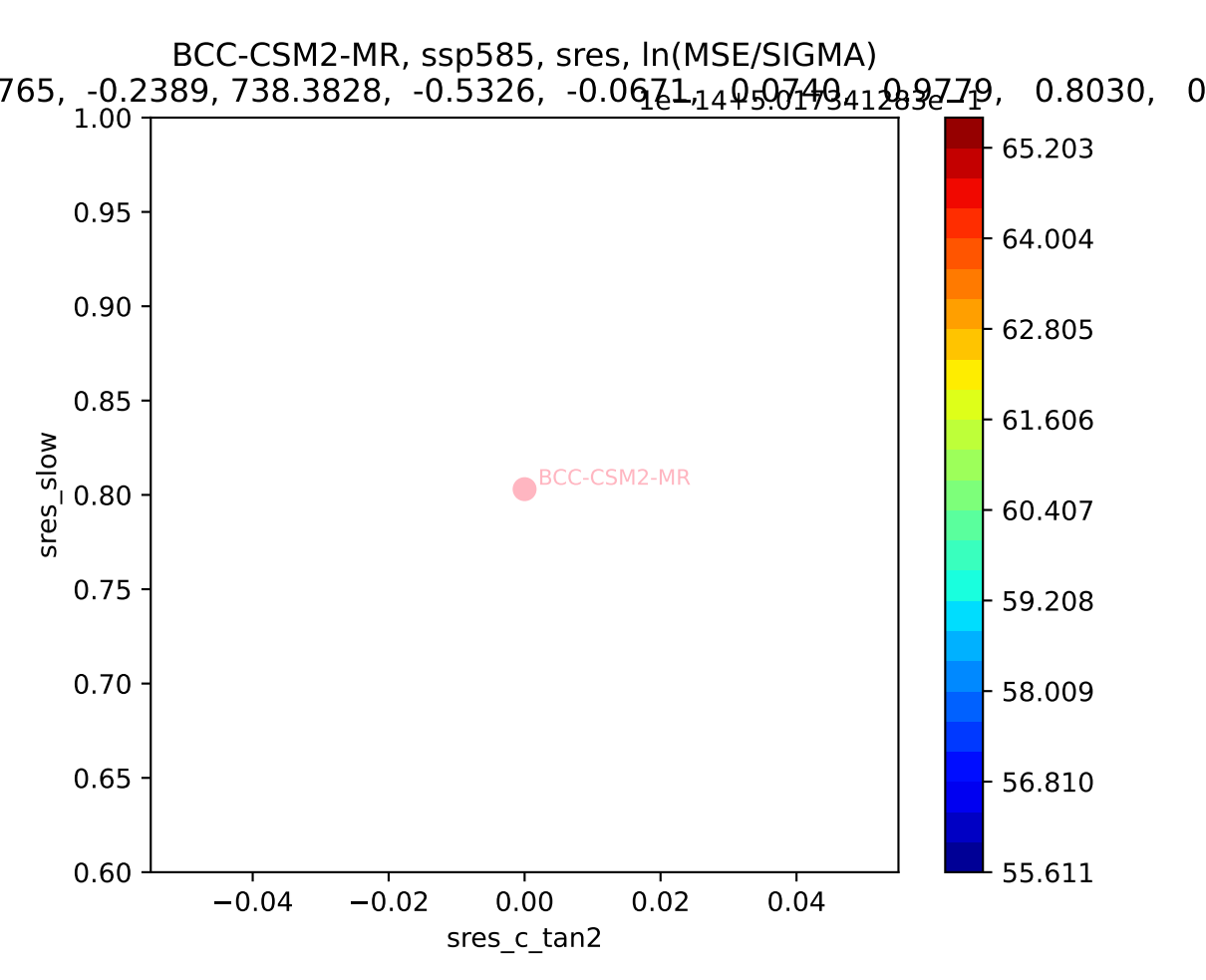

BCC-CSM2-MR, ssp585, sres
ESM-Fit
sres, ESM - FIT
c_atm

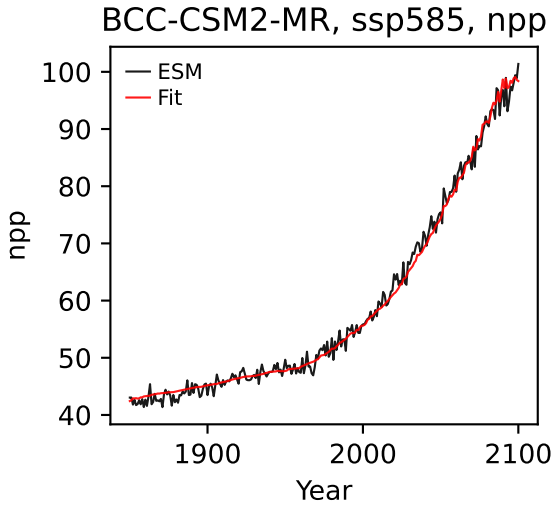

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
765, -0.2389, 738.3828, -0.5326, -0.0671, 0.0740, 0.9779, 0.8030, 0
BCC-CSM2-MR
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
10.5
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4

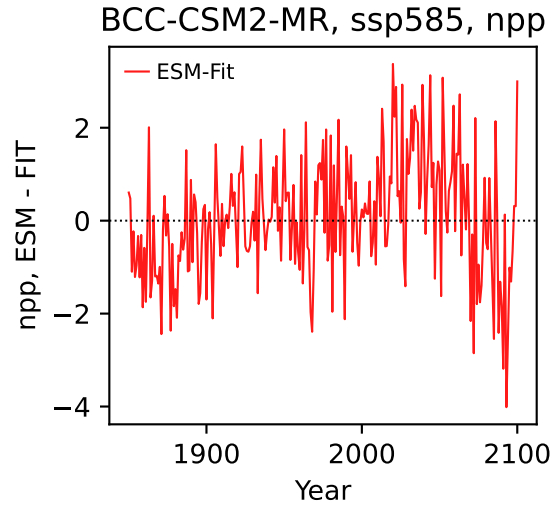

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
765, -0.2389, 738.3828, -0.5326, -0.0671, 0.0740, 0.9779, 0.8030, 0
BCC-CSM2-MR
sres_c_e
sres_c_l
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

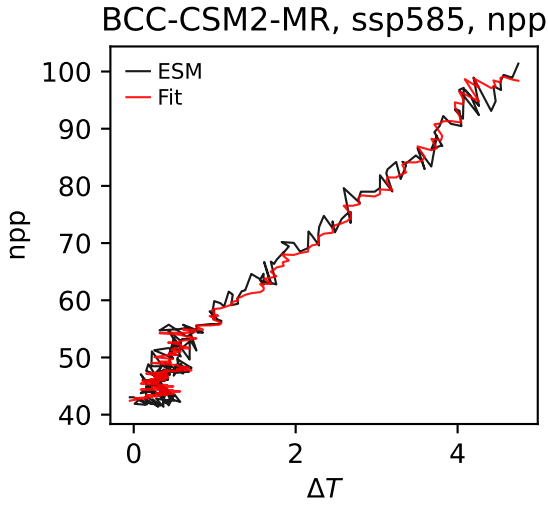

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
765, -0.2389, 738.3828, -0.5326, -0.0671, 0.0740, 0.9779, 0.8030, 0
BCC-CSM2-MR
sres_hyst
sres_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2

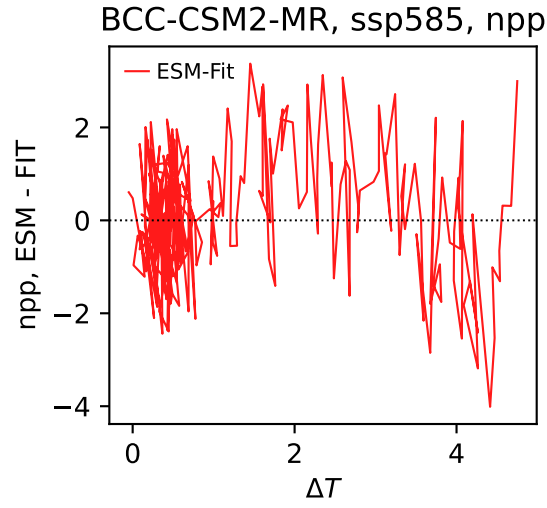

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
765, -0.2389, 738.3828, -0.5326, -0.0671, 0.0740, 0.9779, 0.8030, 0
BCC-CSM2
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
sres_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
sres_c_tan
8.25
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

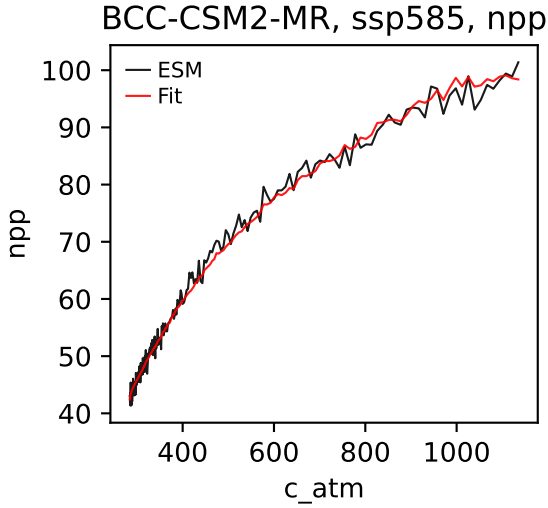

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
765, -0.2389, 738.3828, -0.5326, -0.0671, 0.0740, 0.9779, 0.8030, 0
1e−14+5.017341283e−1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
BCC-CSM2-MR
−0.04
−0.02
0.00
0.02
0.04
sres_c_tan2
65.203
64.004
62.805
61.606
60.407
59.208
58.009
56.810
55.611

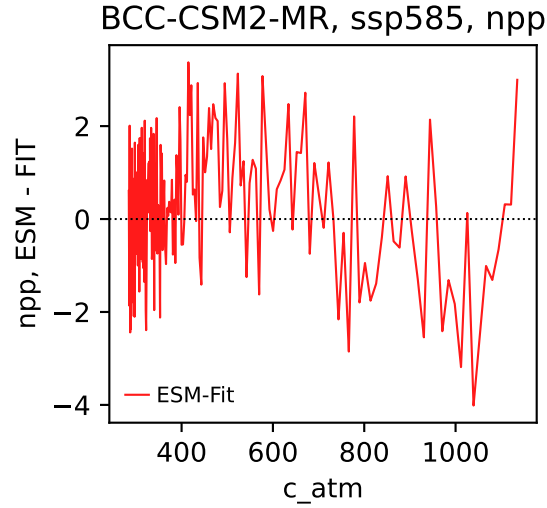

BCC-CSM2-MR, ssp585, npp
ESM
Fit
npp
Year

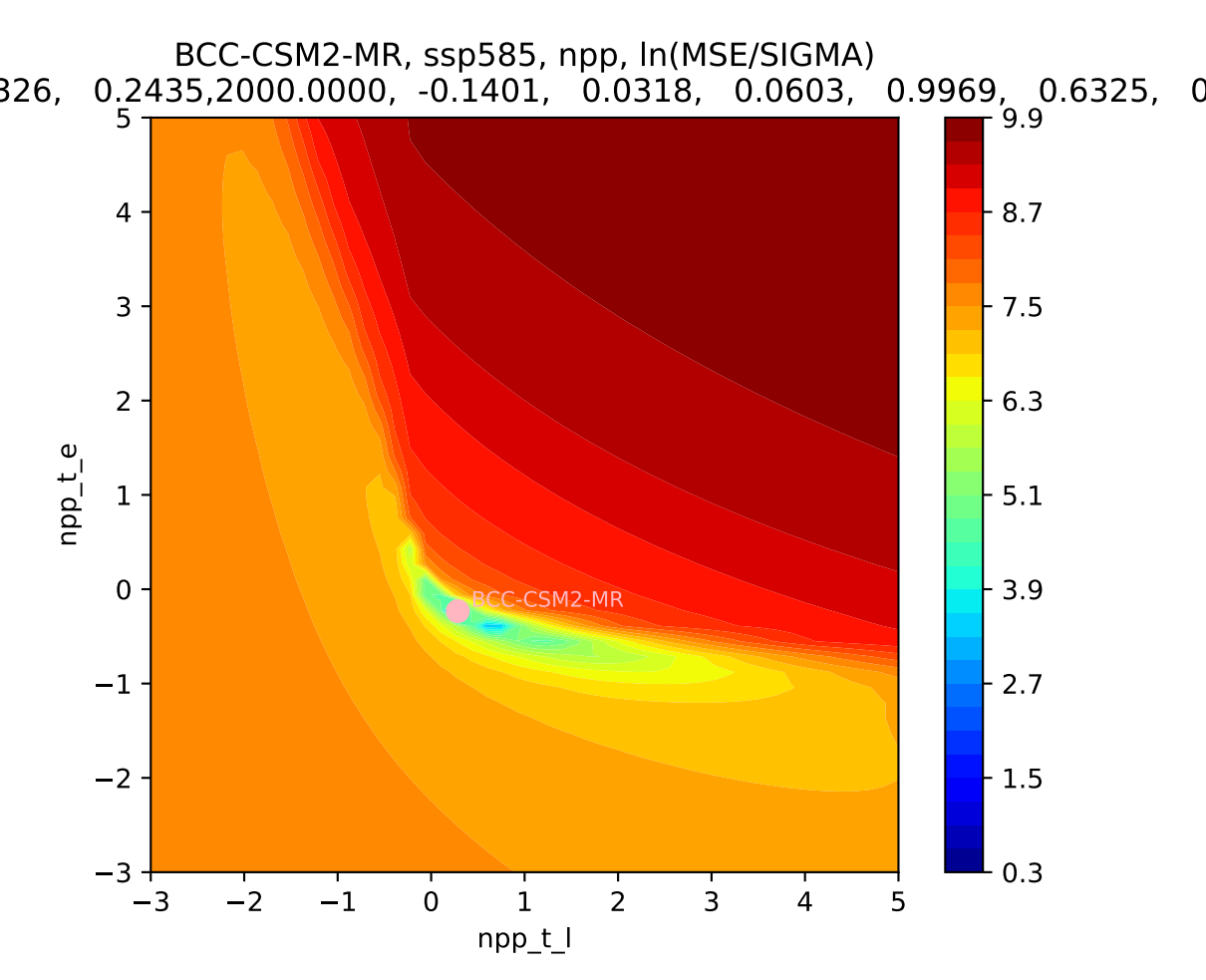

BCC-CSM2-MR, ssp585, npp
ESM-Fit
npp, ESM - FIT
Year

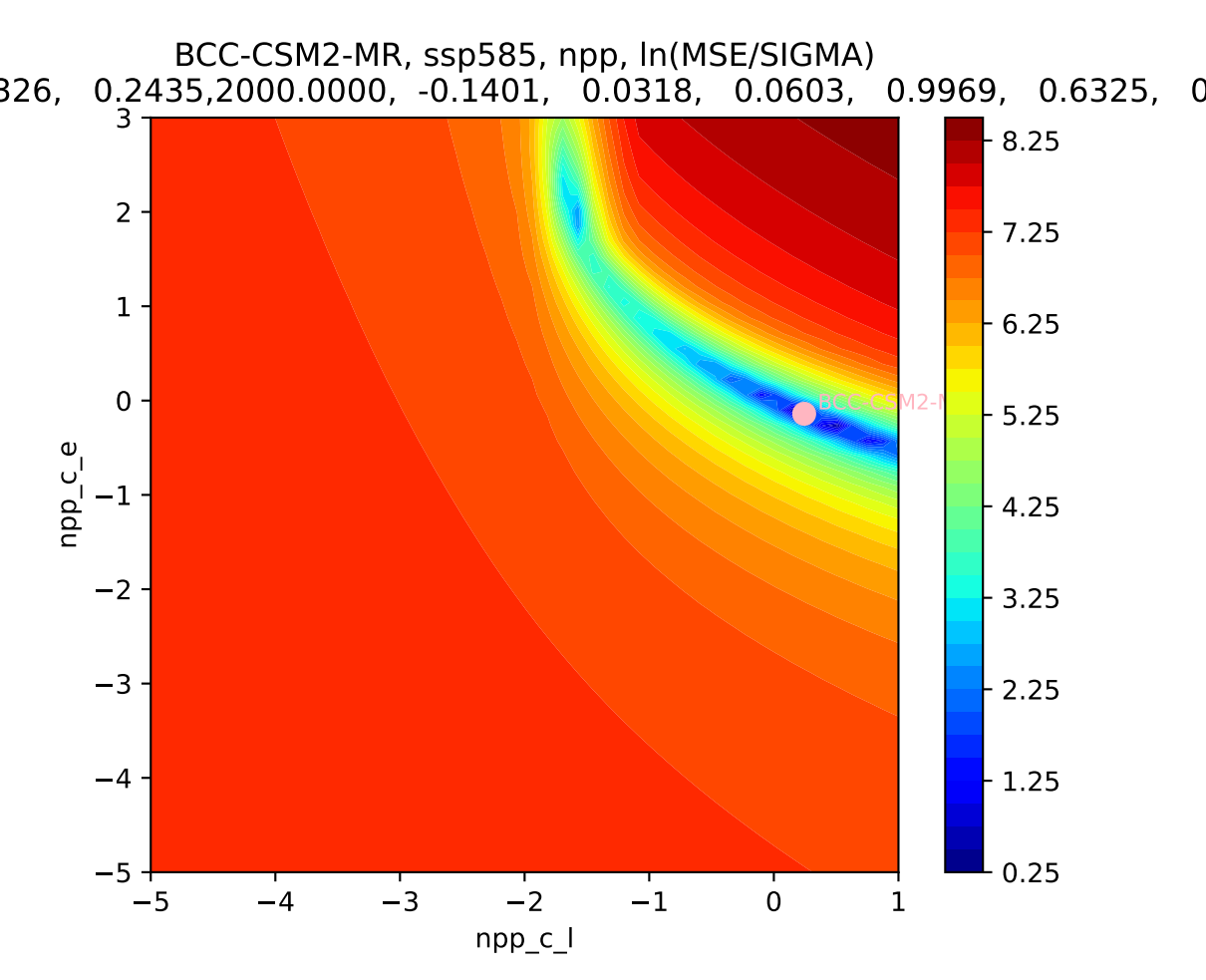

BCC-CSM2-MR, ssp585, npp
ESM
Fit
npp
ΔT

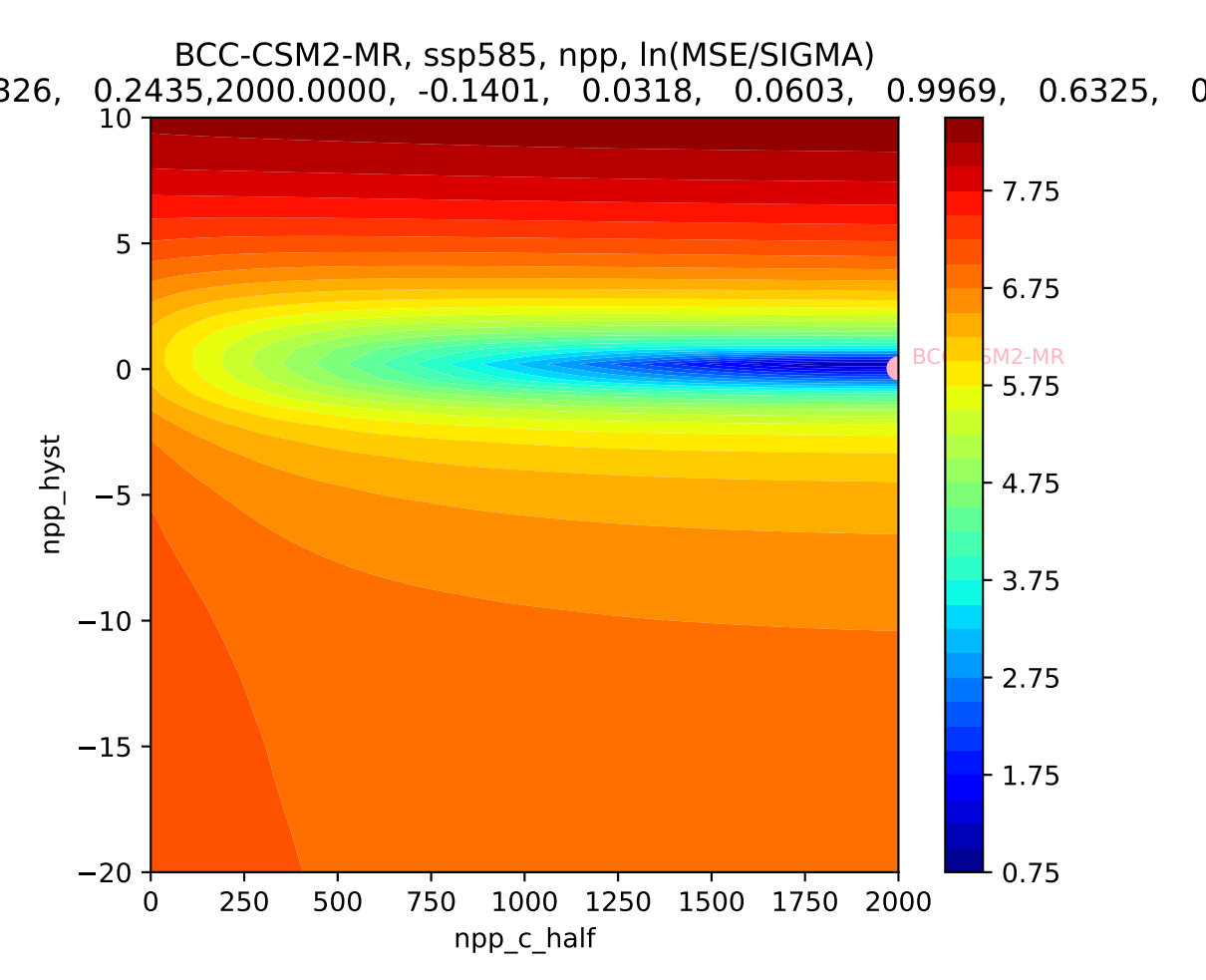

BCC-CSM2-MR, ssp585, npp
ESM-Fit
npp, ESM - FIT
ΔT

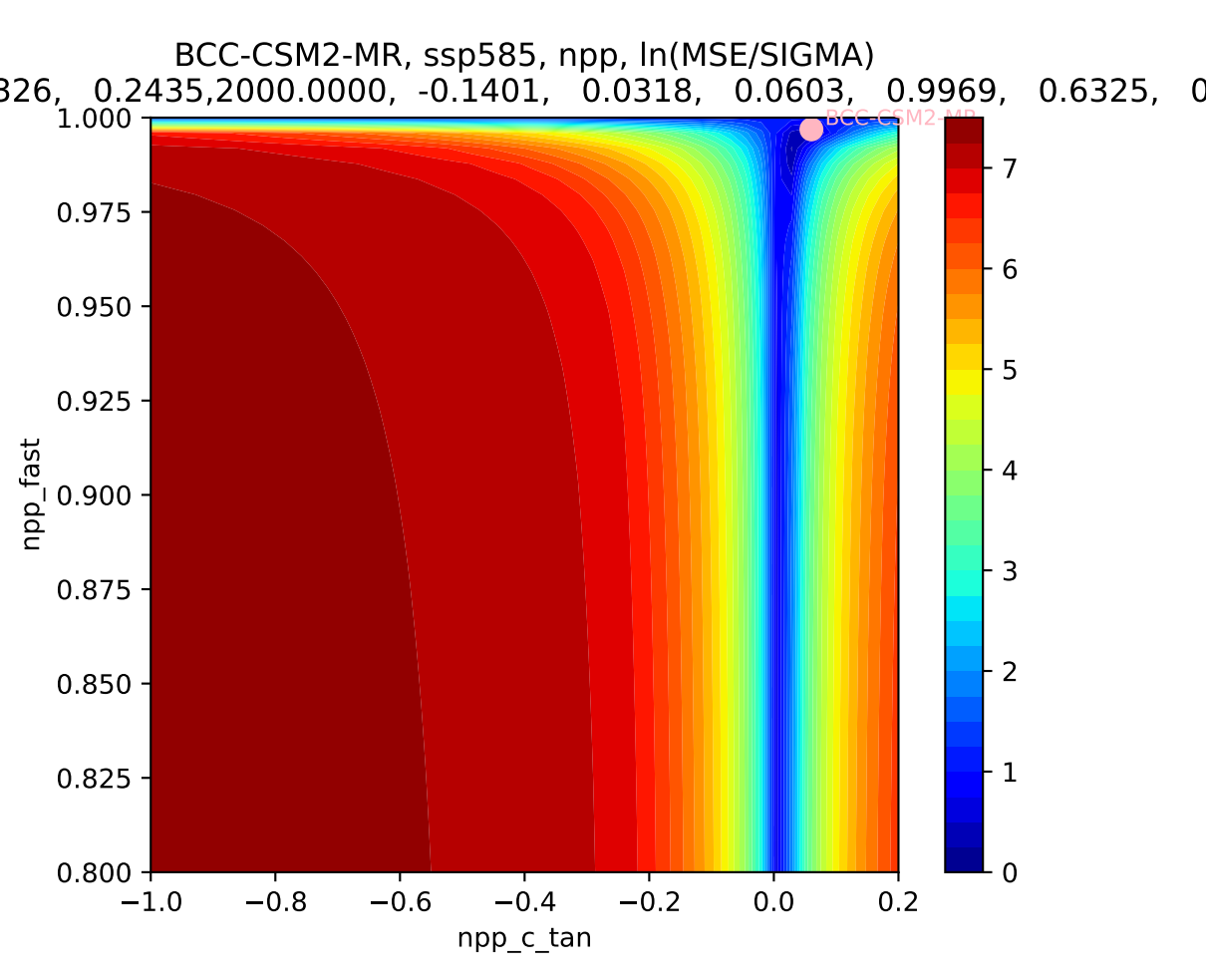

BCC-CSM2-MR, ssp585, npp
ESM
Fit
npp
c_atm

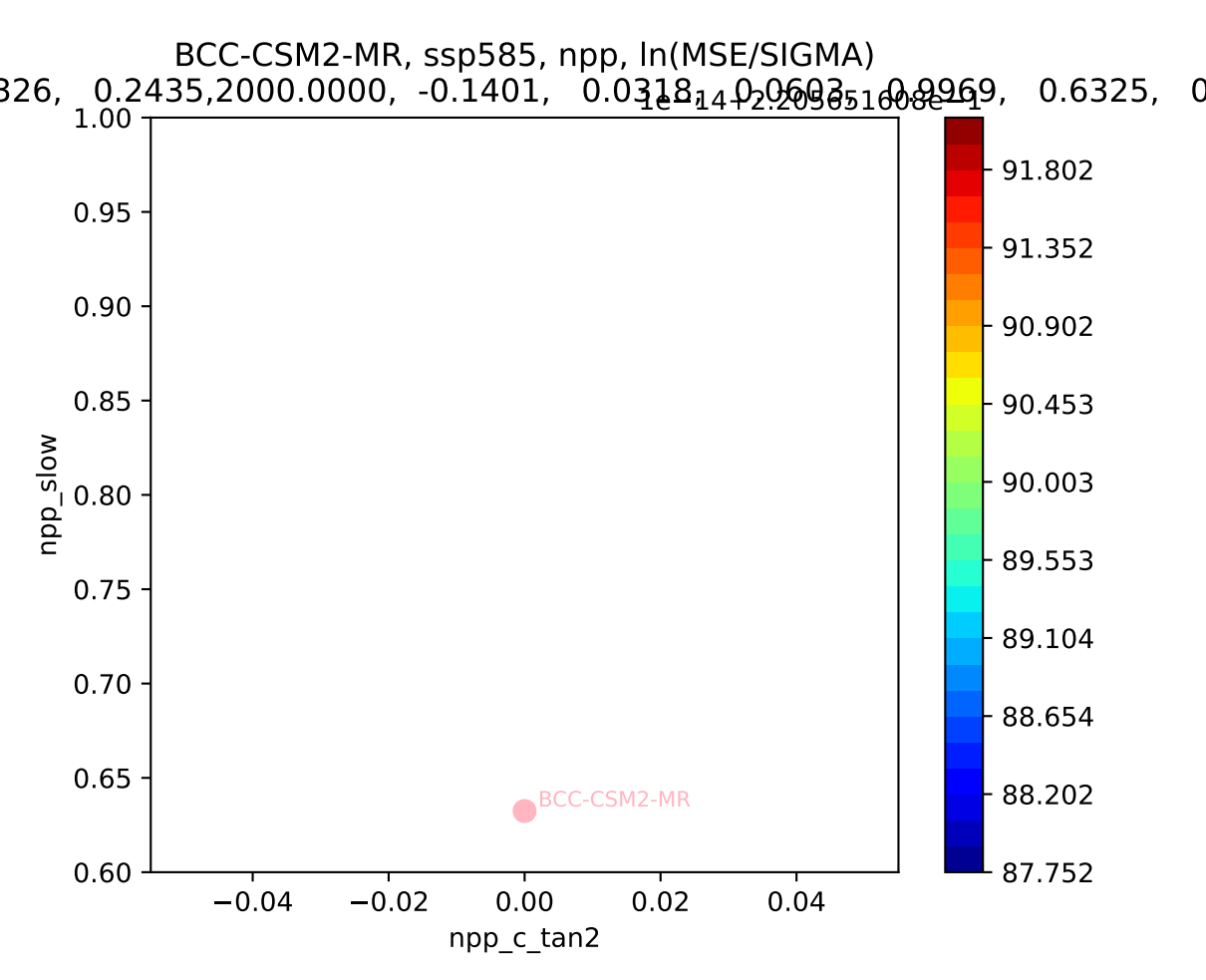

BCC-CSM2-MR, ssp585, npp
ESM-Fit
npp, ESM - FIT
c_atm

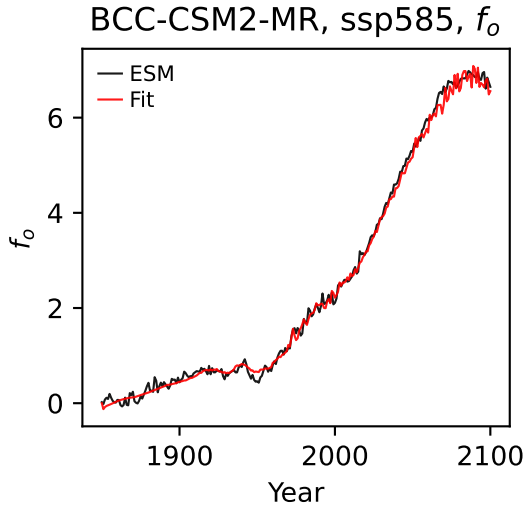

BCC-CSM2-MR, ssp585, npp, ln(MSE/SIGMA)
326, 0.2435,2000.0000, -0.1401, 0.0318, 0.0603, 0.9969, 0.6325, 0
BCC-CSM2-MR
npp_t_e
npp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

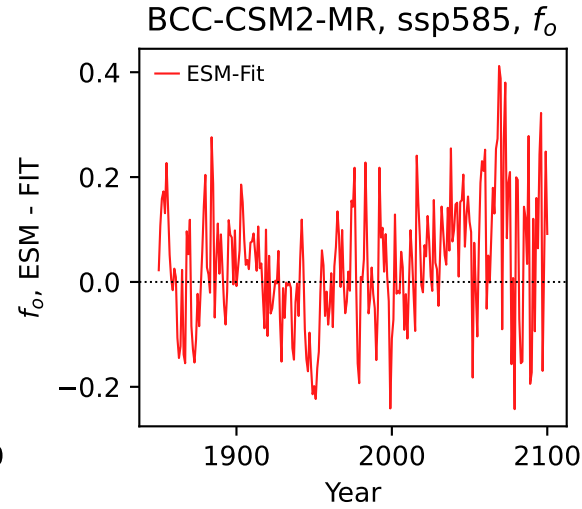

BCC-CSM2-MR, ssp585, npp, ln(MSE/SIGMA)
326, 0.2435,2000.0000, -0.1401, 0.0318, 0.0603, 0.9969, 0.6325, 0
npp_c_e
npp_c_l
3
2
1
0
−1
−2
−3
−4
−5
−5
−4
−3
−2
−1
0
1
8.25
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

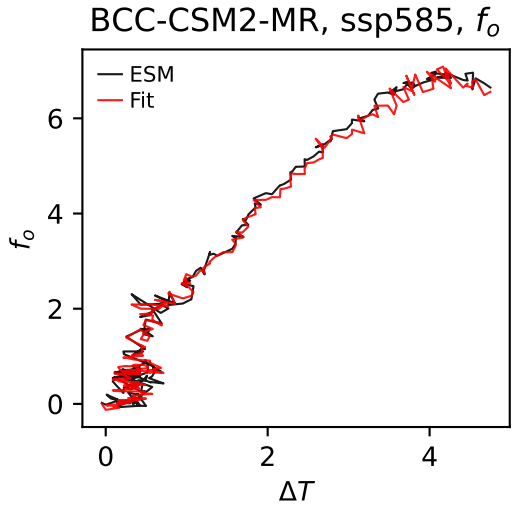

BCC-CSM2-MR, ssp585, npp, ln(MSE/SIGMA)
326, 0.2435,2000.0000, -0.1401, 0.0318, 0.0603, 0.9969, 0.6325, 0
10
5
0
−5
−10
−15
−20
npp_hyst
0
250
500
750
1000
1250
1500
1750
2000
npp_c_half
7.75
6.75
5.75
4.75
3.75
2.75
1.75
0.75

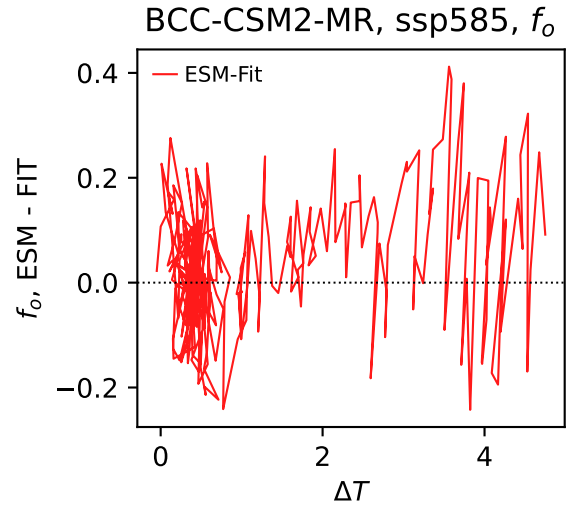

BCC-CSM2-MR, ssp585, npp, ln(MSE/SIGMA)
326, 0.2435,2000.0000, -0.1401, 0.0318, 0.0603, 0.9969, 0.6325, 0
BCC-CSM2-MR
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
npp_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
npp_c_tan
7
6
5
4
3
2
1
0

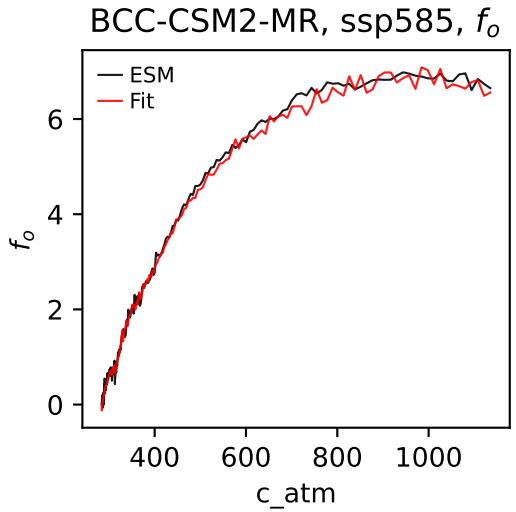

BCC-CSM2-MR, ssp585, npp, ln(MSE/SIGMA)
326, 0.2435,2000.0000, -0.1401, 0.0318, 0.0603, 0.9969, 0.6325, 0
1e−14+2.205651608e−1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
−0.04
−0.02
0.00
0.02
0.04
npp_c_tan2
BCC-CSM2-MR
91.802
91.352
90.902
90.453
90.003
89.553
89.104
88.654
88.202
87.752

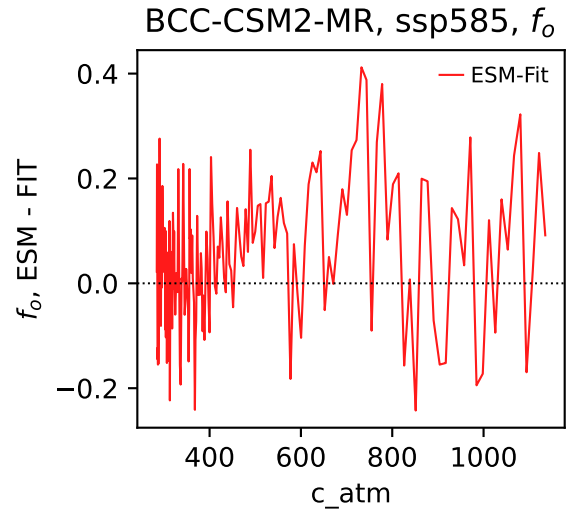

BCC-CSM2-MR, ssp585, f_o
ESM
Fit
f_o
Year

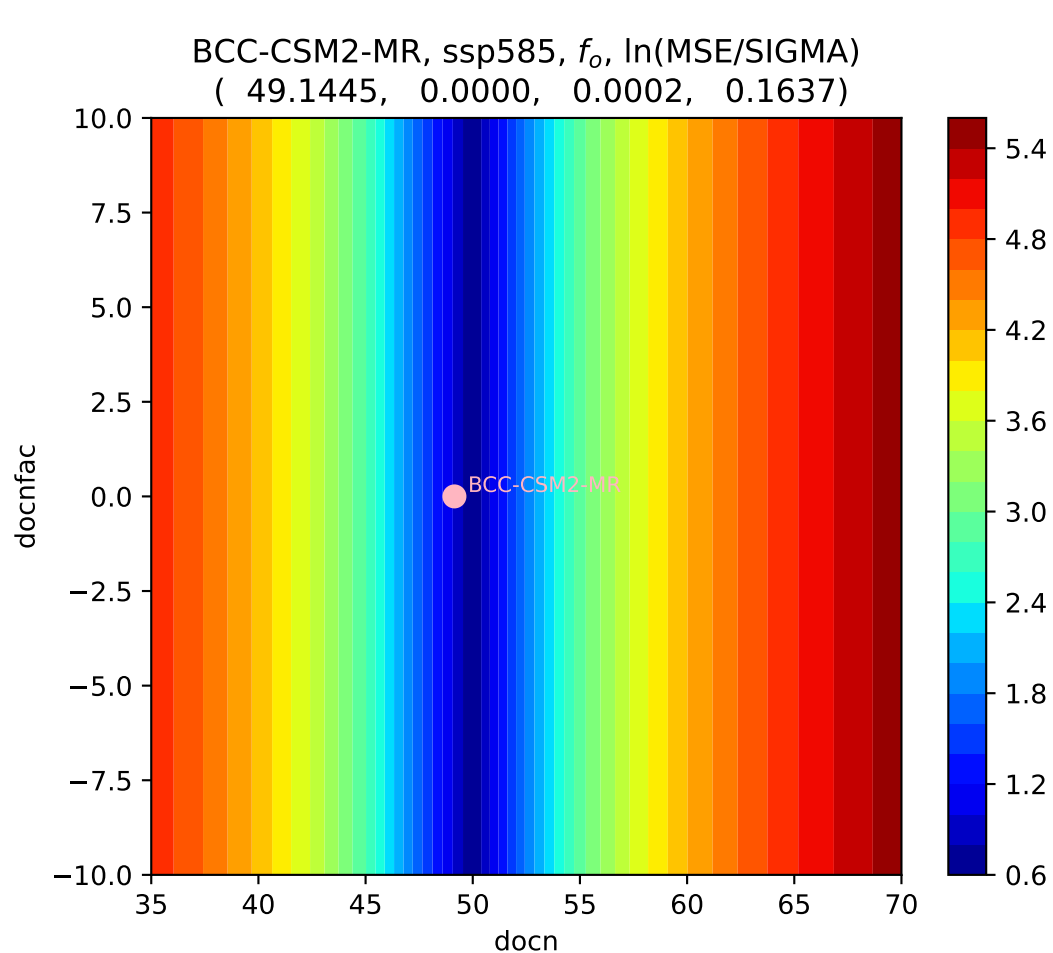

BCC-CSM2-MR, ssp585, f_o
ESM-Fit
f_o, ESM - FIT
Year

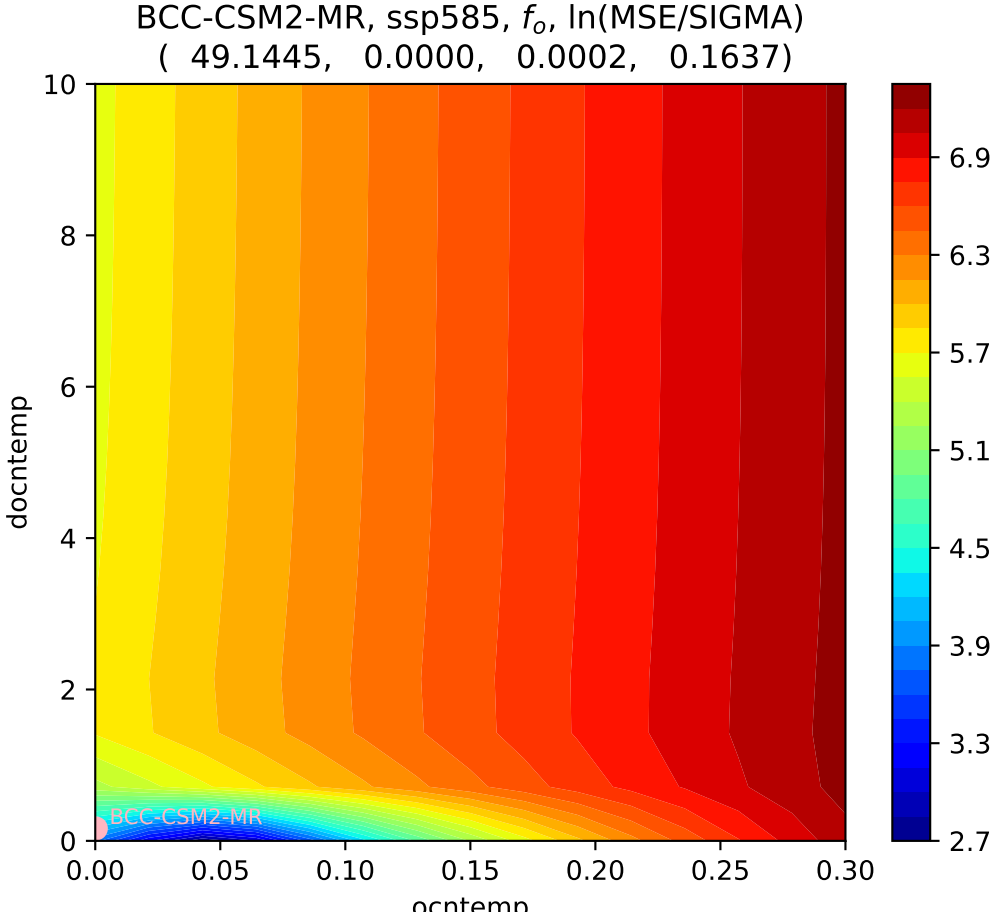

BCC-CSM2-MR, ssp585, f_o
ESM
Fit
f_o
ΔT


BCC-CSM2-MR, ssp585, f_o
ESM-Fit
f_o, ESM - FIT
ΔT


BCC-CSM2-MR, ssp585, f_o
ESM
Fit
f_o
c_atm


BCC-CSM2-MR, ssp585, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


BCC-CSM2-MR, ssp585, f_o, ln(MSE/SIGMA)
(49.1445, 0.0000, 0.0002, 0.1637)
BCC-CSM2-MR
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
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6


BCC-CSM2-MR, ssp585, f_o, ln(MSE/SIGMA)
(49.1445, 0.0000, 0.0002, 0.1637)
docntemp
ocntemp
BCC-CSM2-MR
0
2
4
6
8
10
0.00
0.05
0.10
0.15
0.20
0.25
0.30
6.9
6.3
5.7
5.1
4.5
3.9
3.3
2.7