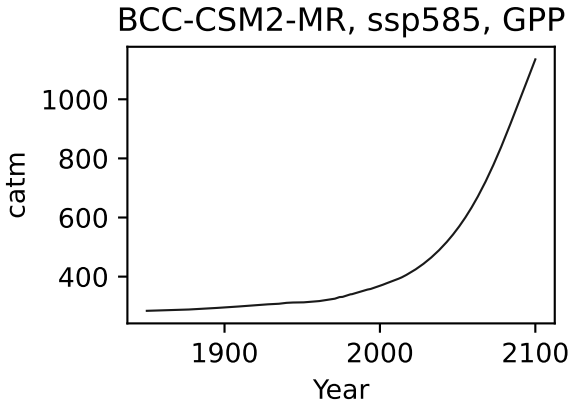
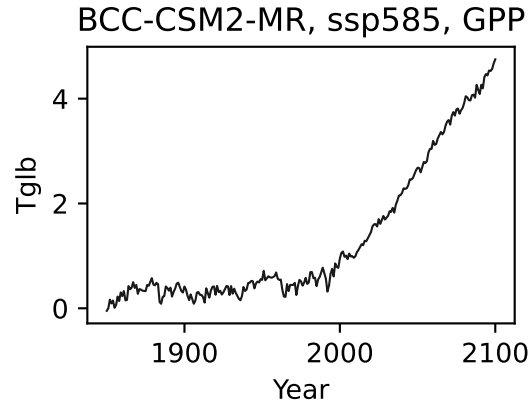
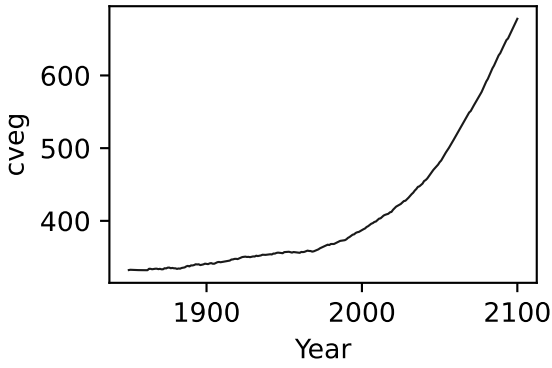
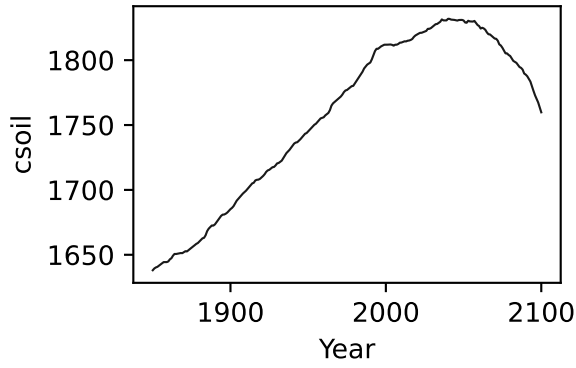
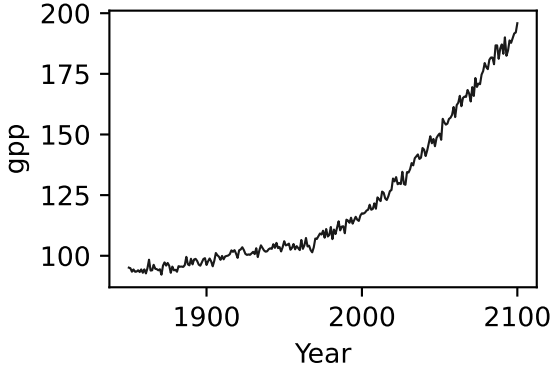
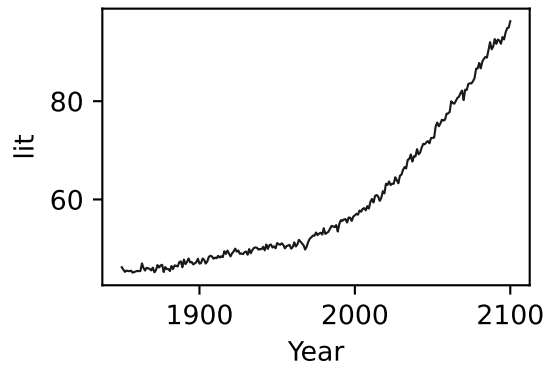

BCC-CSM2-MR, ssp585, GPP
catm
1000
800
600
400
1900
2000
2100
Year

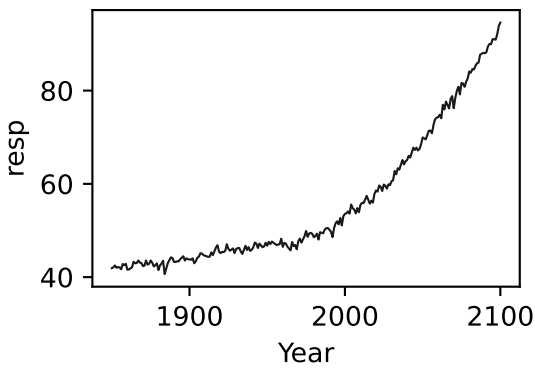

BCC-CSM2-MR, ssp585, GPP
Tglb
4
2
0
1900
2000
2100
Year

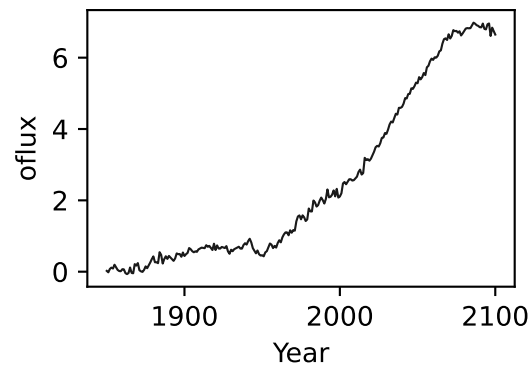

cveg
600
500
400
1900
2000
2100
Year

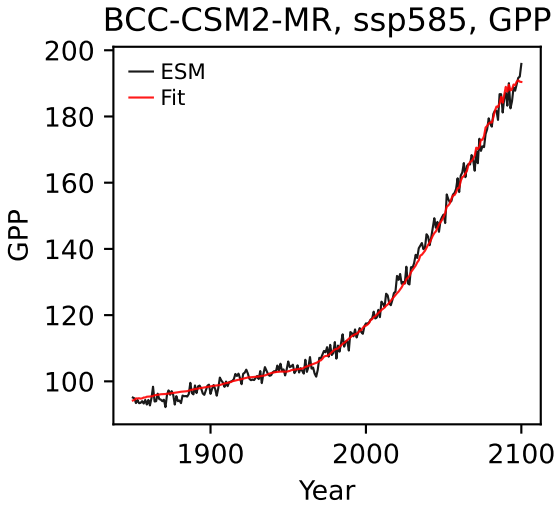

csoil
1800
1750
1700
1650
1900
2000
2100
Year

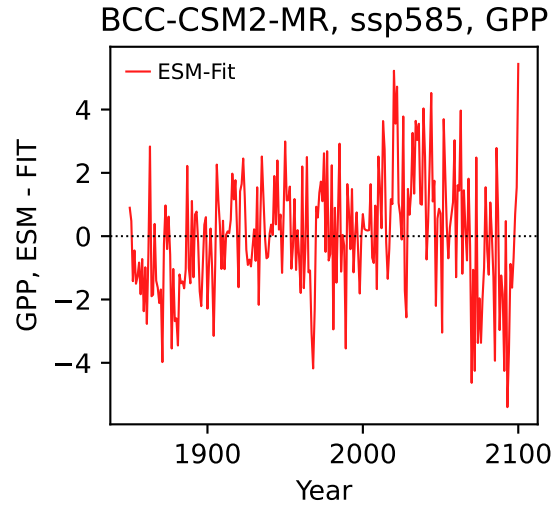

gpp
200
175
150
125
100
1900
2000
2100
Year

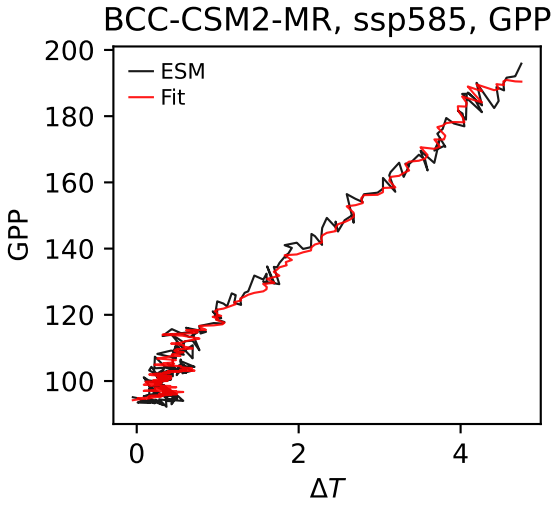

lit
80
60
1900
2000
2100
Year

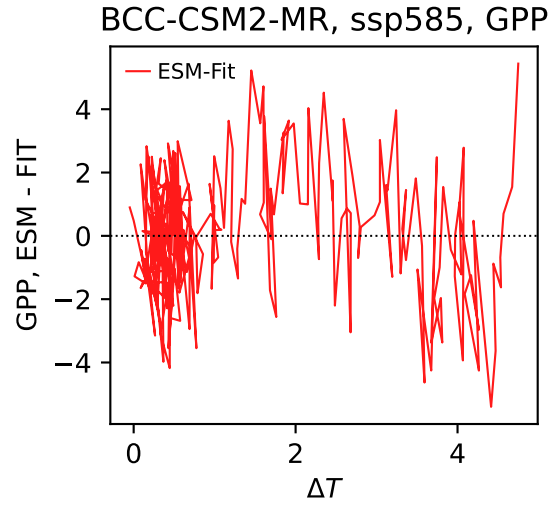

resp
80
60
40
1900
2000
2100
Year

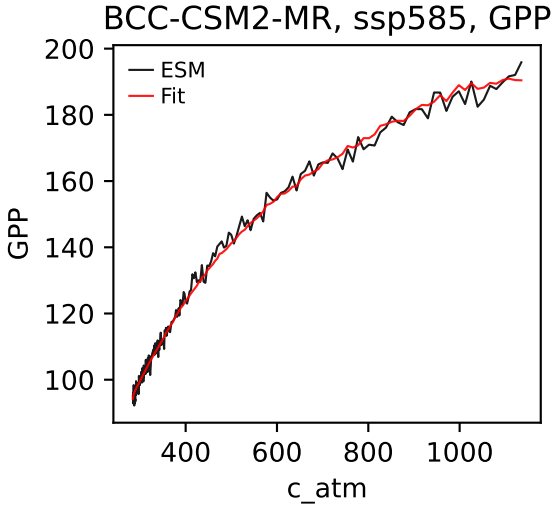

oflux
6
4
2
0
1900
2000
2100
Year

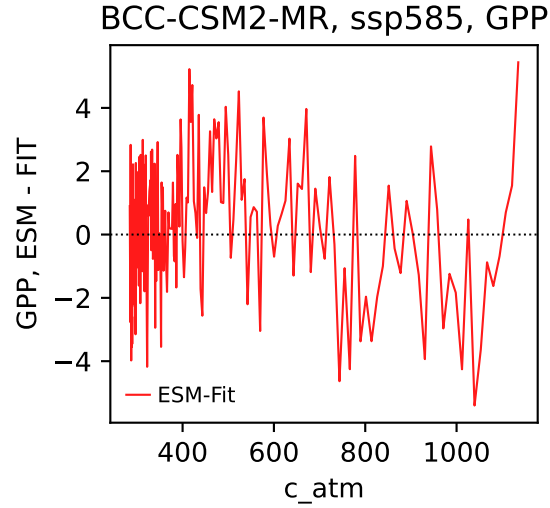

BCC-CSM2-MR, ssp585, GPP
ESM
Fit
GPP
Year

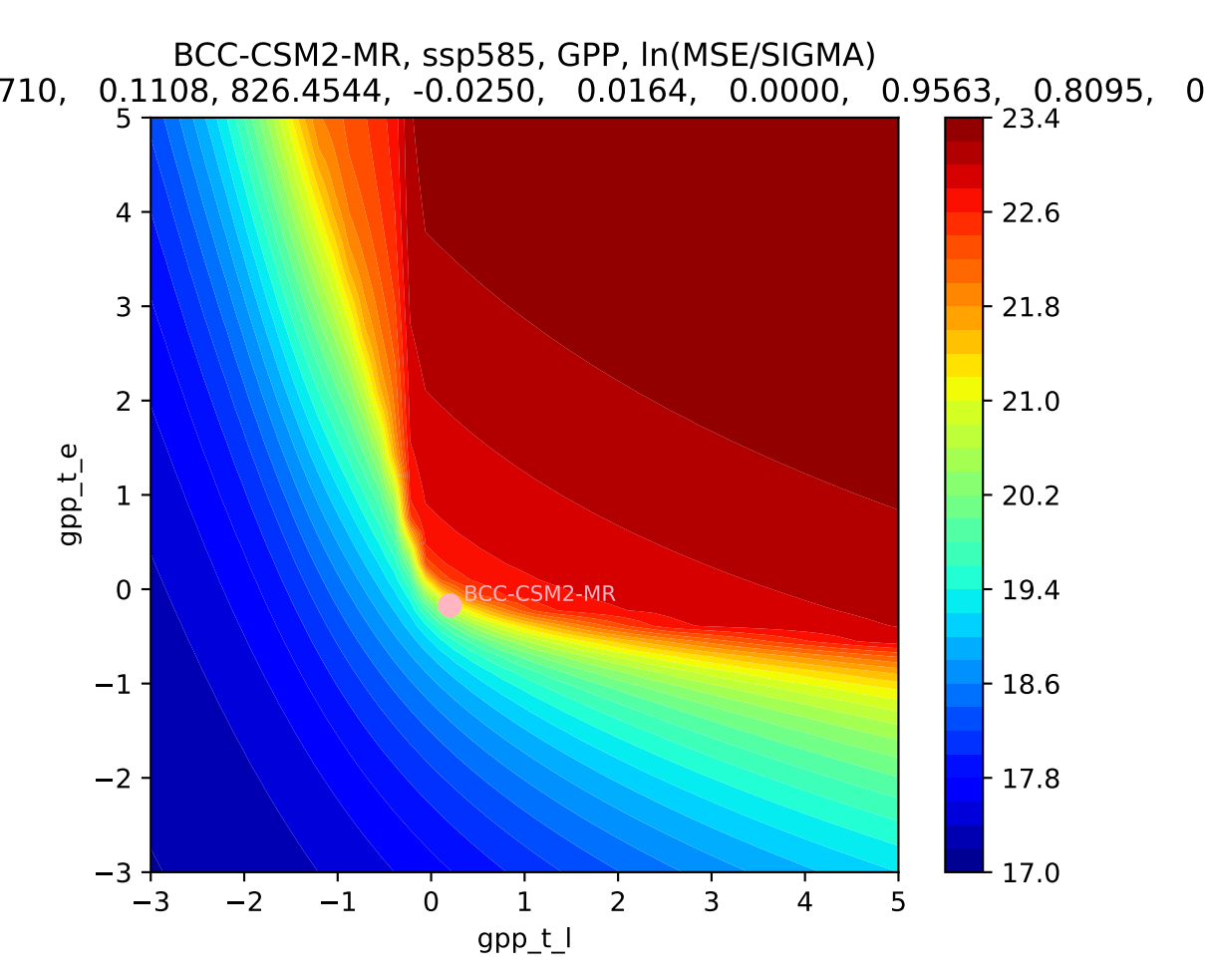

BCC-CSM2-MR, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
Year

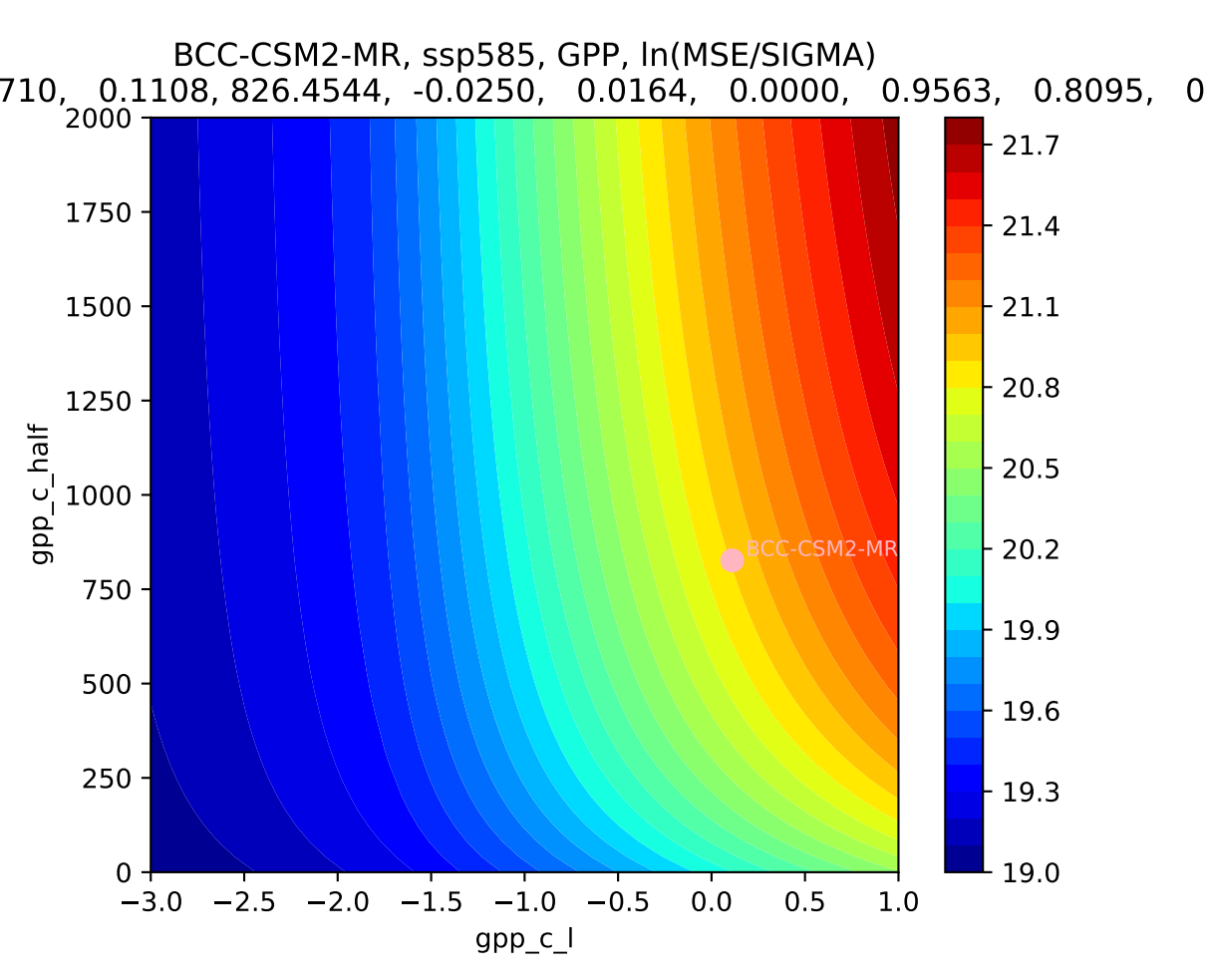

BCC-CSM2-MR, ssp585, GPP
ESM
Fit
GPP
ΔT

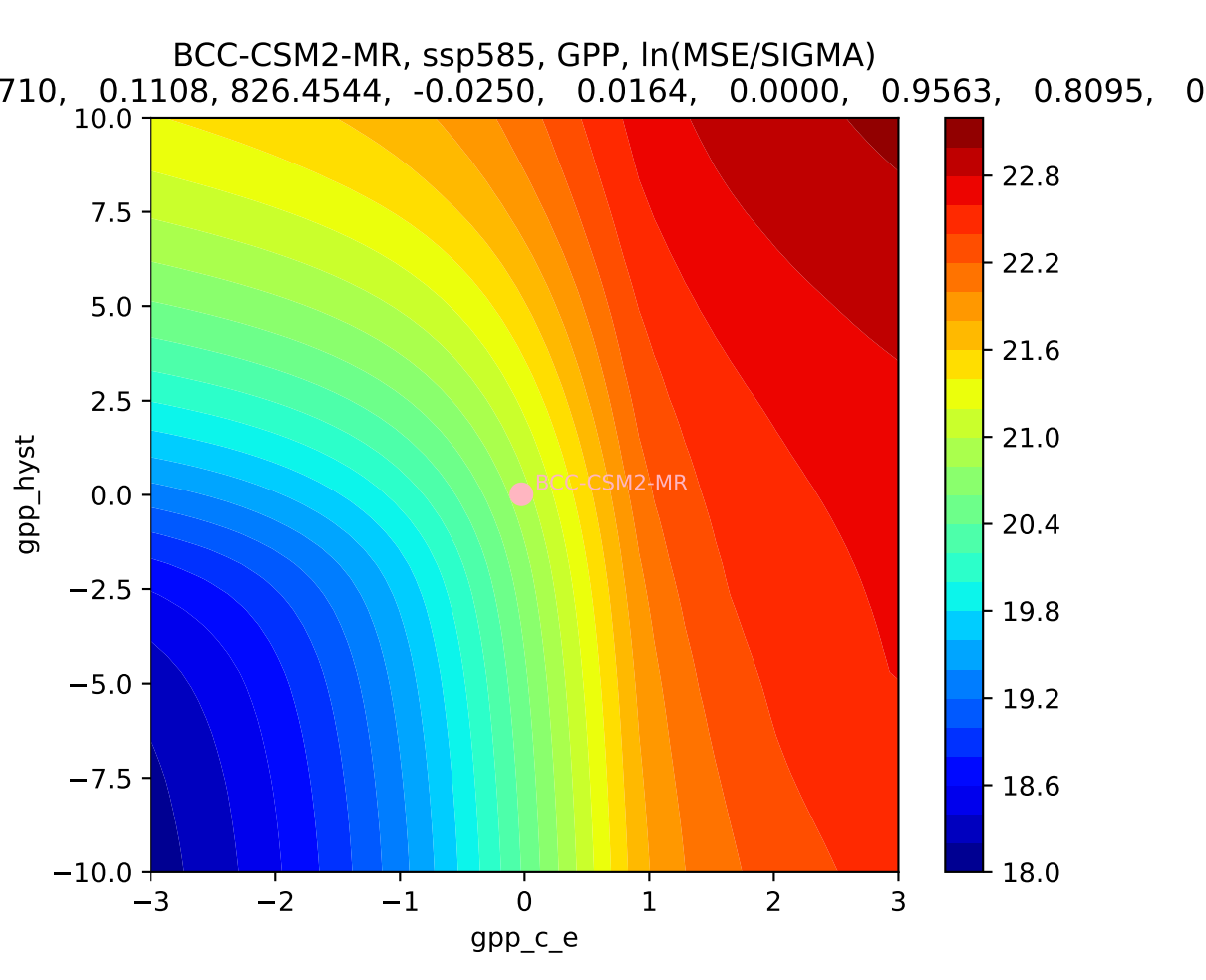

BCC-CSM2-MR, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

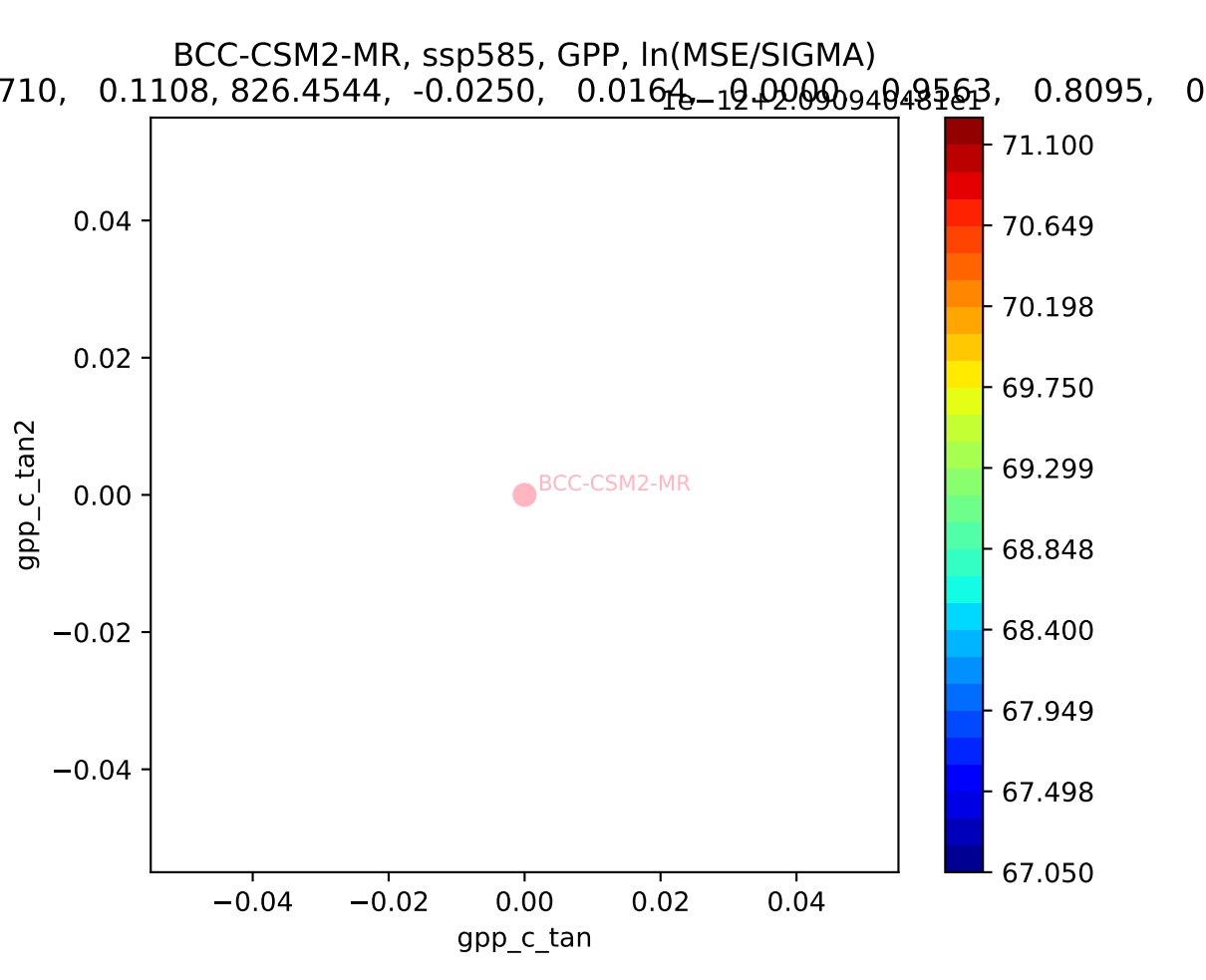

BCC-CSM2-MR, ssp585, GPP
ESM
Fit
GPP
c_atm

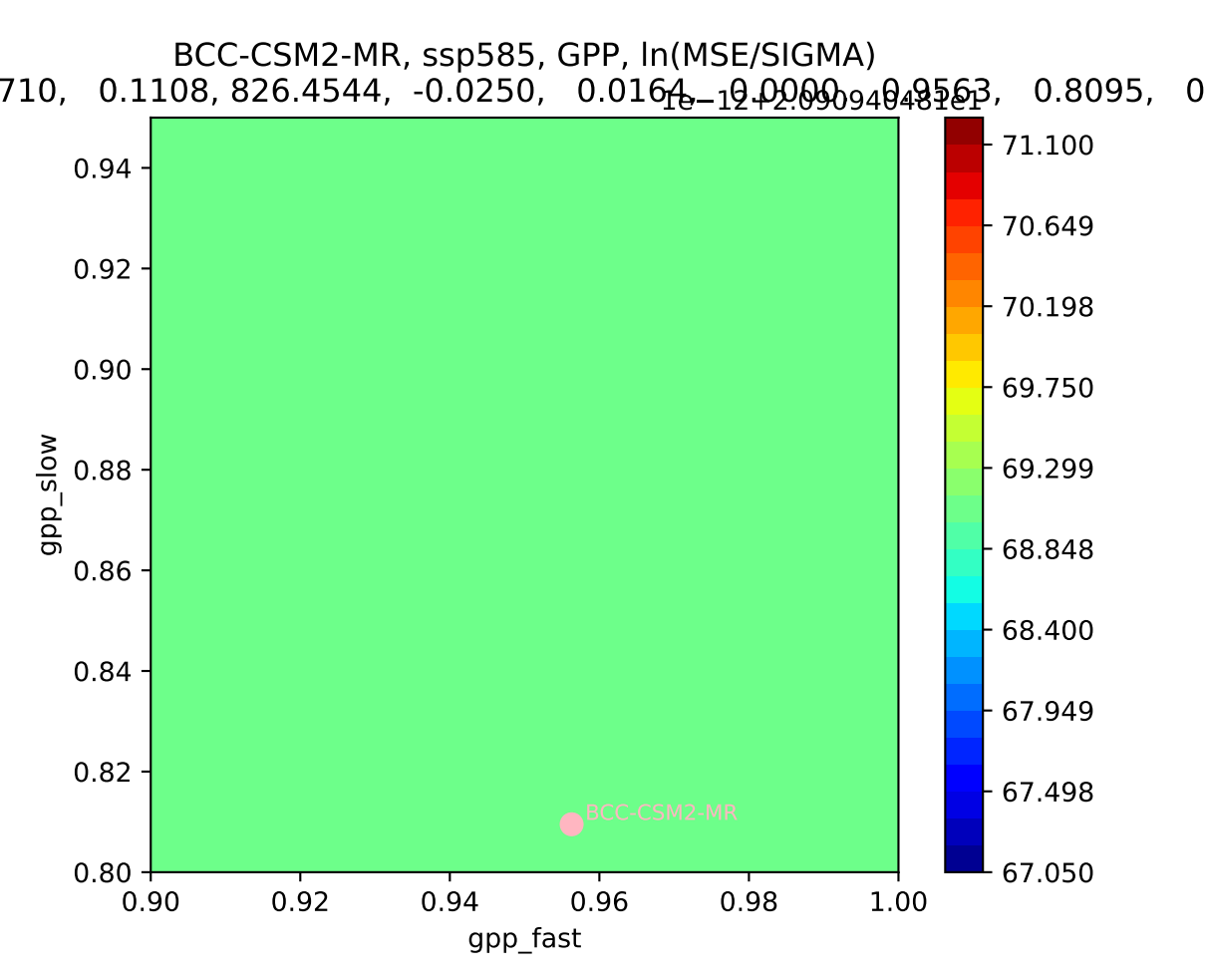

BCC-CSM2-MR, ssp585, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

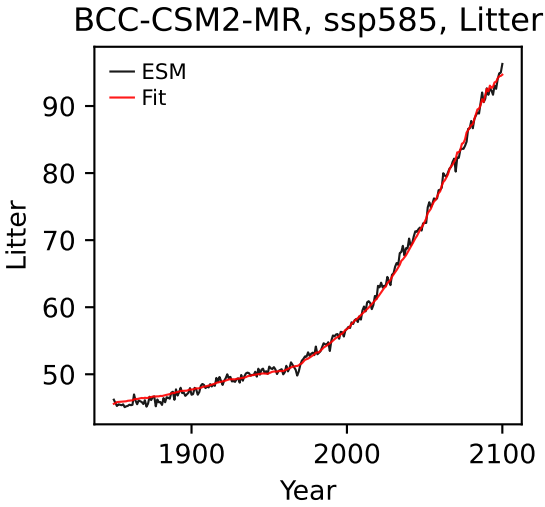

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
710, 0.1108, 826.4544, -0.0250, 0.0164, 0.0000, 0.9563, 0.8095, 0
BCC-CSM2-MR
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
23.4
22.6
21.8
21.0
20.2
19.4
18.6
17.8
17.0

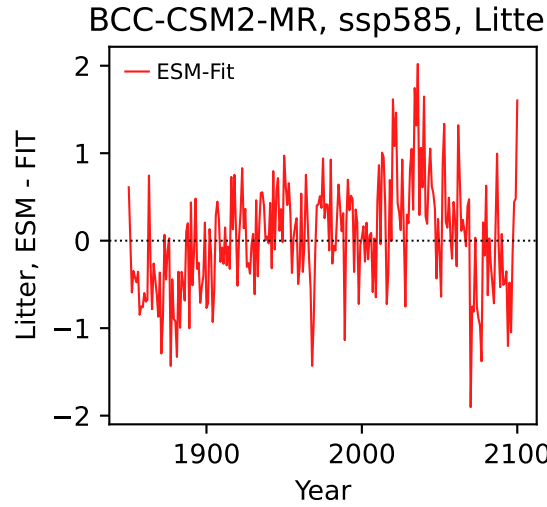

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
710, 0.1108, 826.4544, -0.0250, 0.0164, 0.0000, 0.9563, 0.8095, 0
gpp_c_half
gpp_c_l
BCC-CSM2-MR
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
21.7
21.4
21.1
20.8
20.5
20.2
19.9
19.6
19.3
19.0

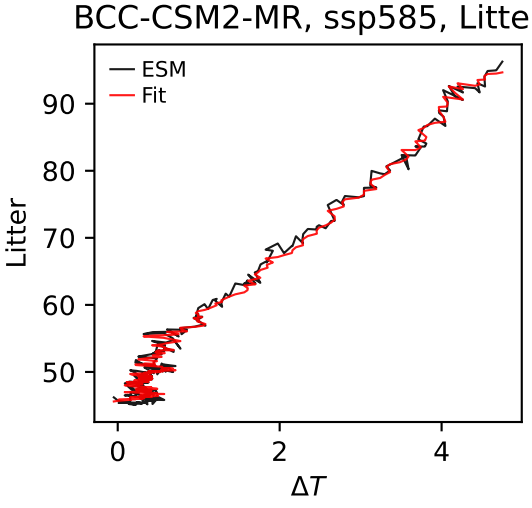

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
710, 0.1108, 826.4544, -0.0250, 0.0164, 0.0000, 0.9563, 0.8095, 0
BCC-CSM2-MR
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.8
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0

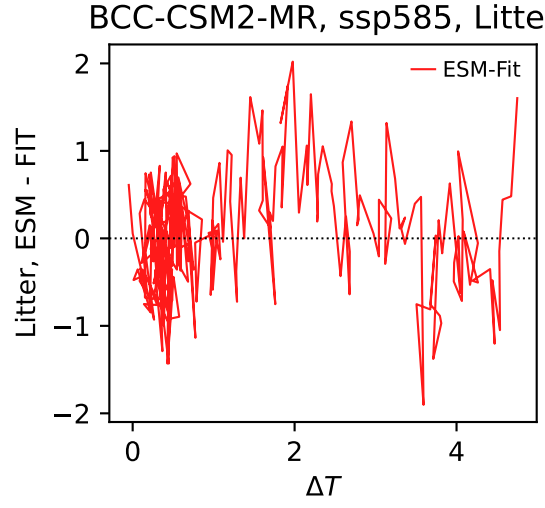

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
710, 0.1108, 826.4544, -0.0250, 0.0164, 0.0000, 0.9563, 0.8095, 0
1e−12+2.090948481e1
BCC-CSM2-MR
gpp_c_tan2
gpp_c_tan
0.04
0.02
0.00
−0.02
−0.04
71.100
70.649
70.198
69.750
69.299
68.848
68.400
67.949
67.498
67.050

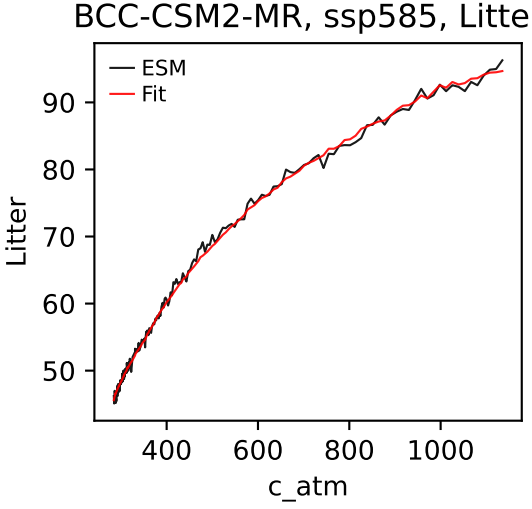

BCC-CSM2-MR, ssp585, GPP, ln(MSE/SIGMA)
710, 0.1108, 826.4544, -0.0250, 0.0164, 0.0000, 0.9563, 0.8095, 0
1e−12+2.09094048161
71.100
70.649
70.198
69.750
69.299
68.848
68.400
67.949
67.498
67.050
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
gpp_slow
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast
BCC-CSM2-MR

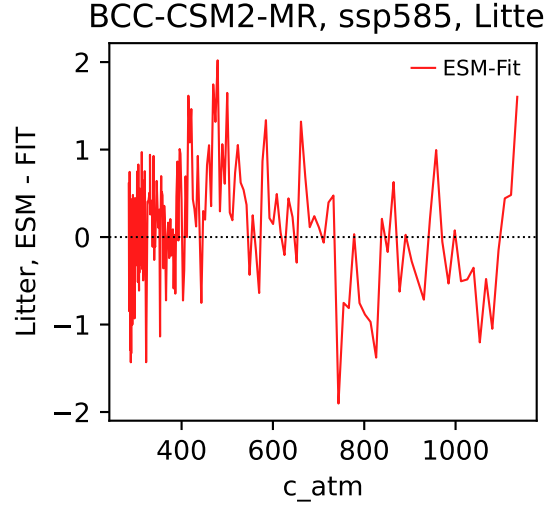

BCC-CSM2-MR, ssp585, Litter
ESM
Fit
Litter
Year

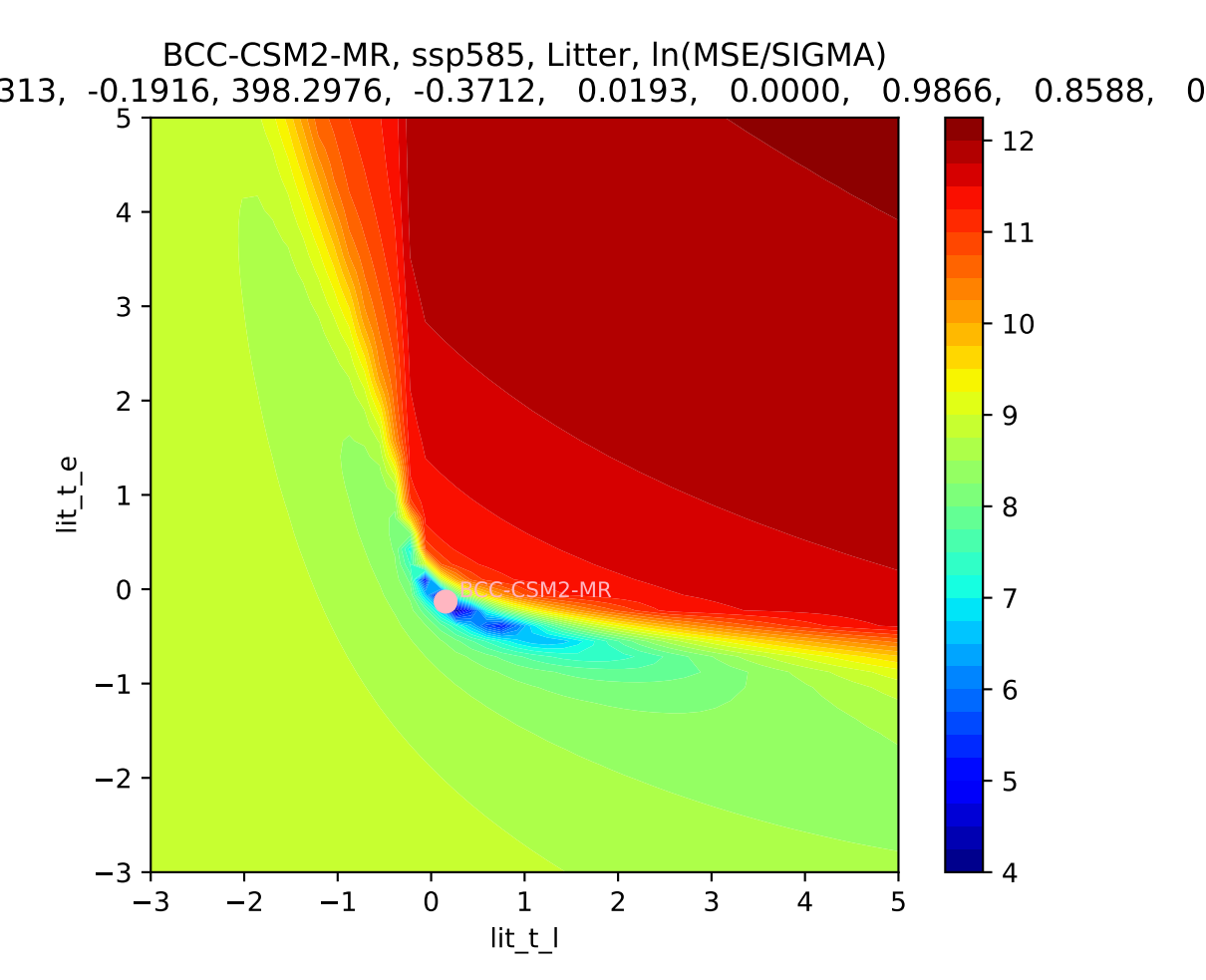

BCC-CSM2-MR, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
Year

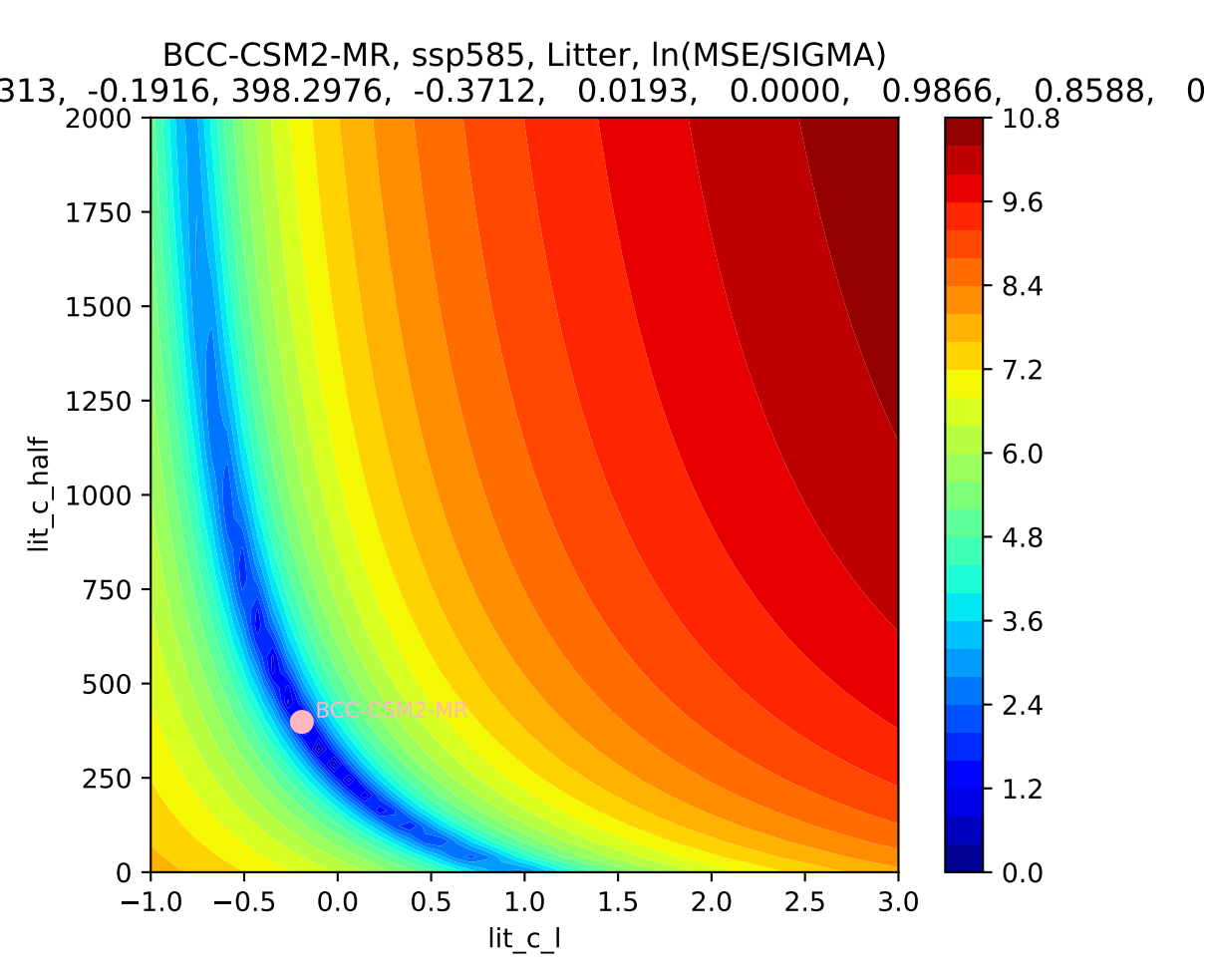

BCC-CSM2-MR, ssp585, Litter
ESM
Fit
Litter
ΔT

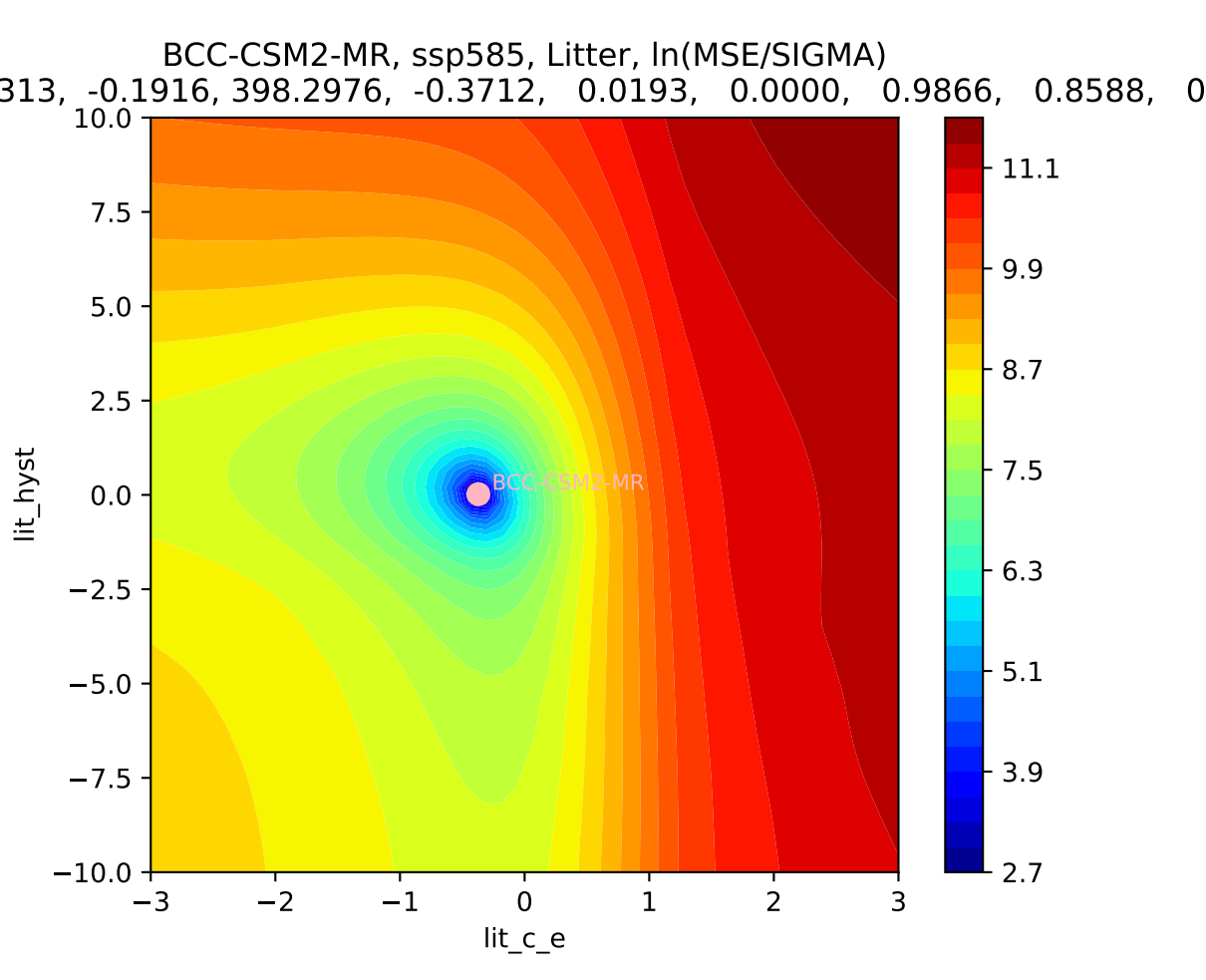

BCC-CSM2-MR, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

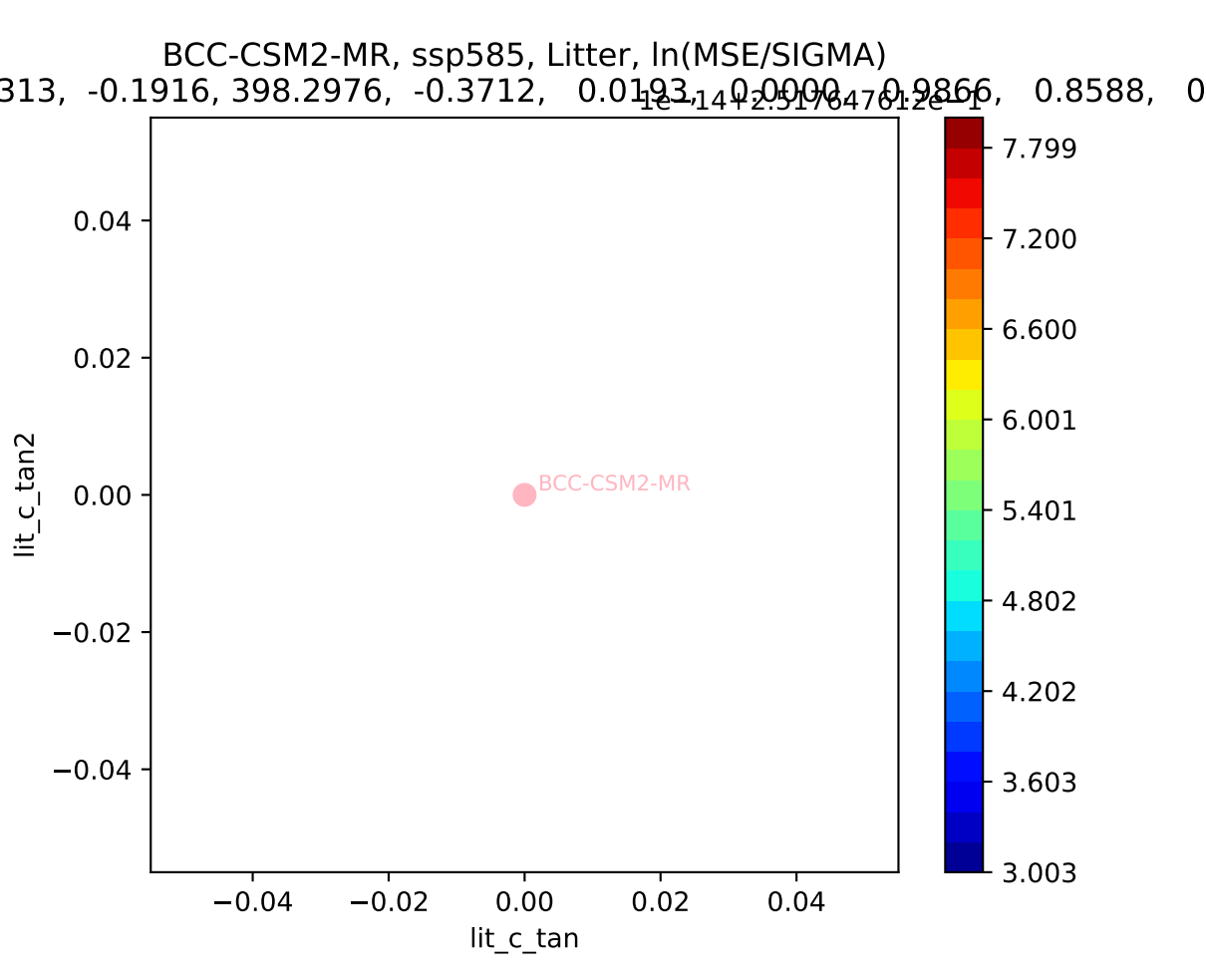

BCC-CSM2-MR, ssp585, Litter
ESM
Fit
Litter
c_atm

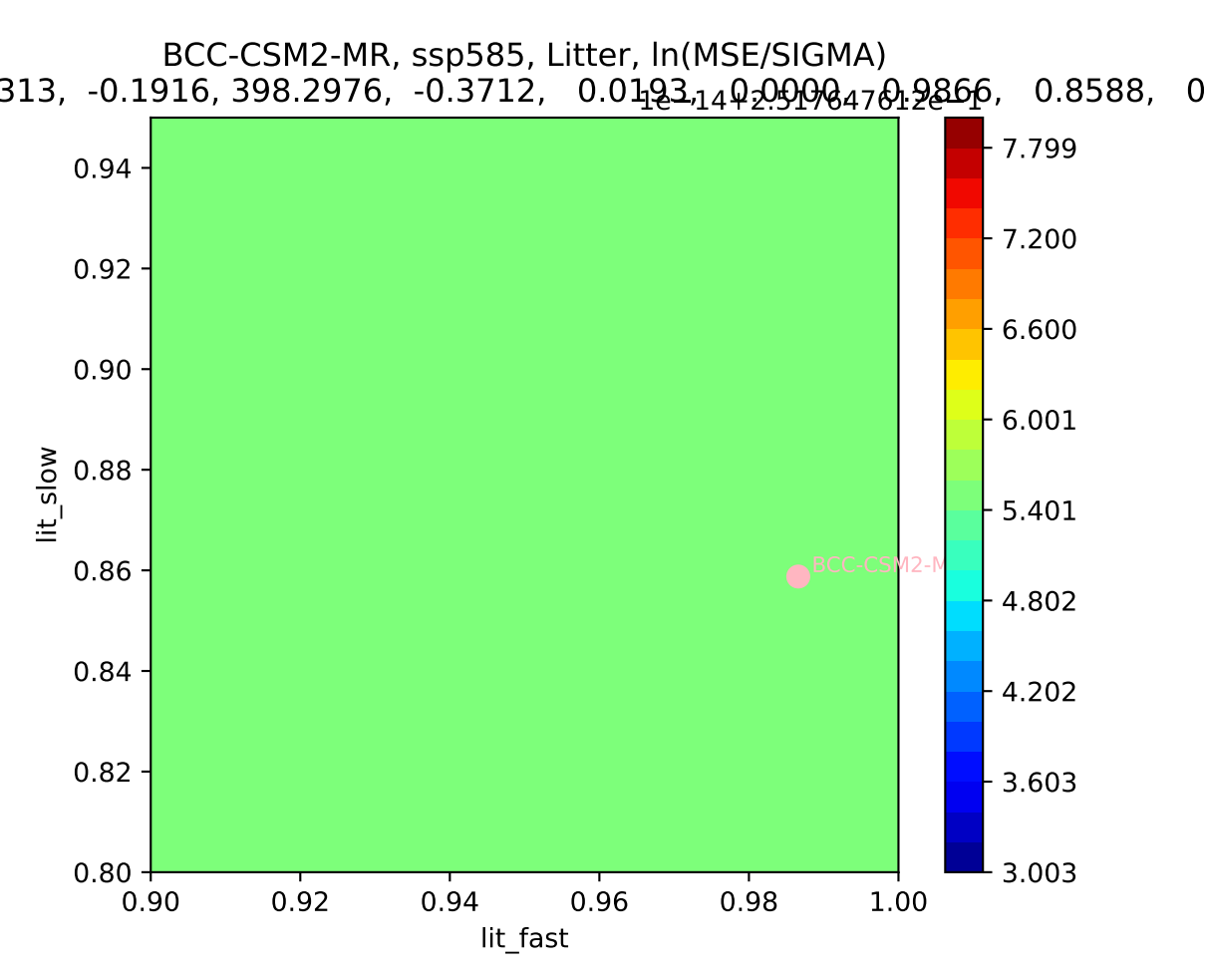

BCC-CSM2-MR, ssp585, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

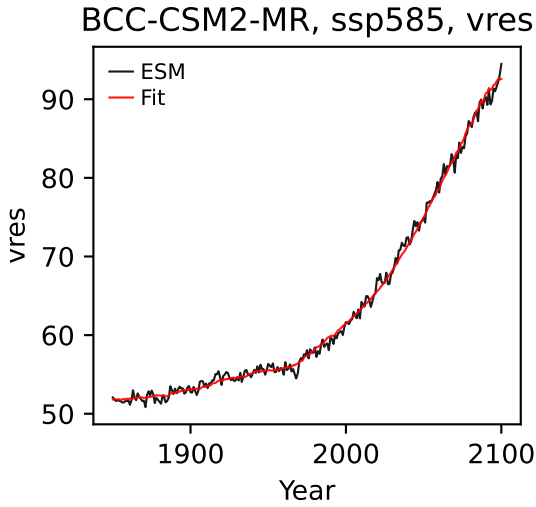

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
313, -0.1916, 398.2976, -0.3712, 0.0193, 0.0000, 0.9866, 0.8588, 0
BCC-CSM2-MR
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
12
11
10
9
8
7
6
5
4

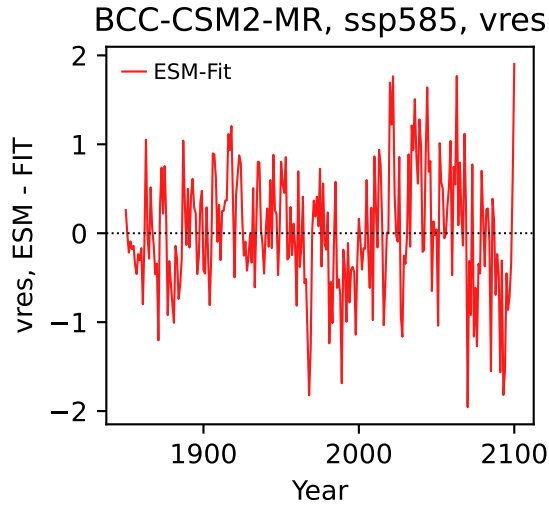

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
313, -0.1916, 398.2976, -0.3712, 0.0193, 0.0000, 0.9866, 0.8588, 0
lit_c_half
lit_c_l
BCC-CSM2-MR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

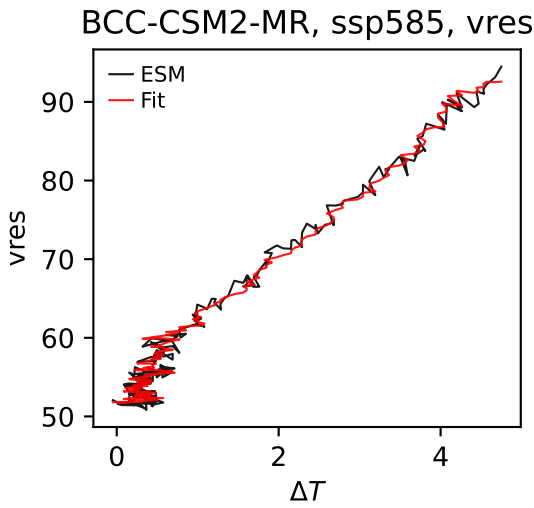

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
313, -0.1916, 398.2976, -0.3712, 0.0193, 0.0000, 0.9866, 0.8588, 0
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
lit_hyst
BCC-CSM2-MR
−3
−2
−1
0
1
2
3
lit_c_e
11.1
9.9
8.7
7.5
6.3
5.1
3.9
2.7

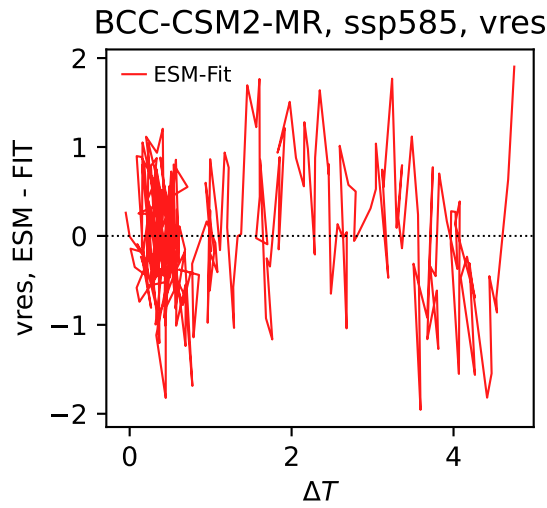

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
313, -0.1916, 398.2976, -0.3712, 0.0193, 0.0000, 0.9866, 0.8588, 0
1e−14+2.517647612e−1
BCC-CSM2-MR
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
7.799
7.200
6.600
6.001
5.401
4.802
4.202
3.603
3.003

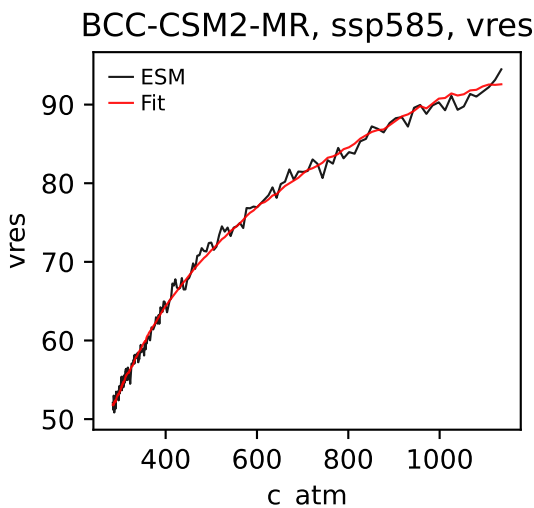

BCC-CSM2-MR, ssp585, Litter, ln(MSE/SIGMA)
313, -0.1916, 398.2976, -0.3712, 0.0193, 0.0000, 0.9866, 0.8588, 0
1e−14+2.517647612e−1
BCC-CSM2-M
lit_slow
lit_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
7.799
7.200
6.600
6.001
5.401
4.802
4.202
3.603
3.003

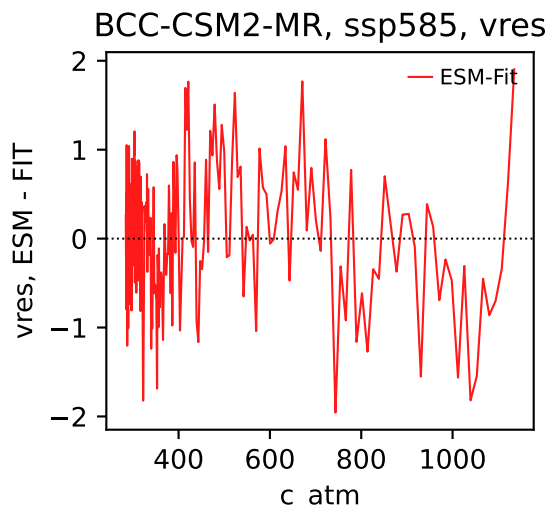

BCC-CSM2-MR, ssp585, vres
ESM
Fit
vres
Year

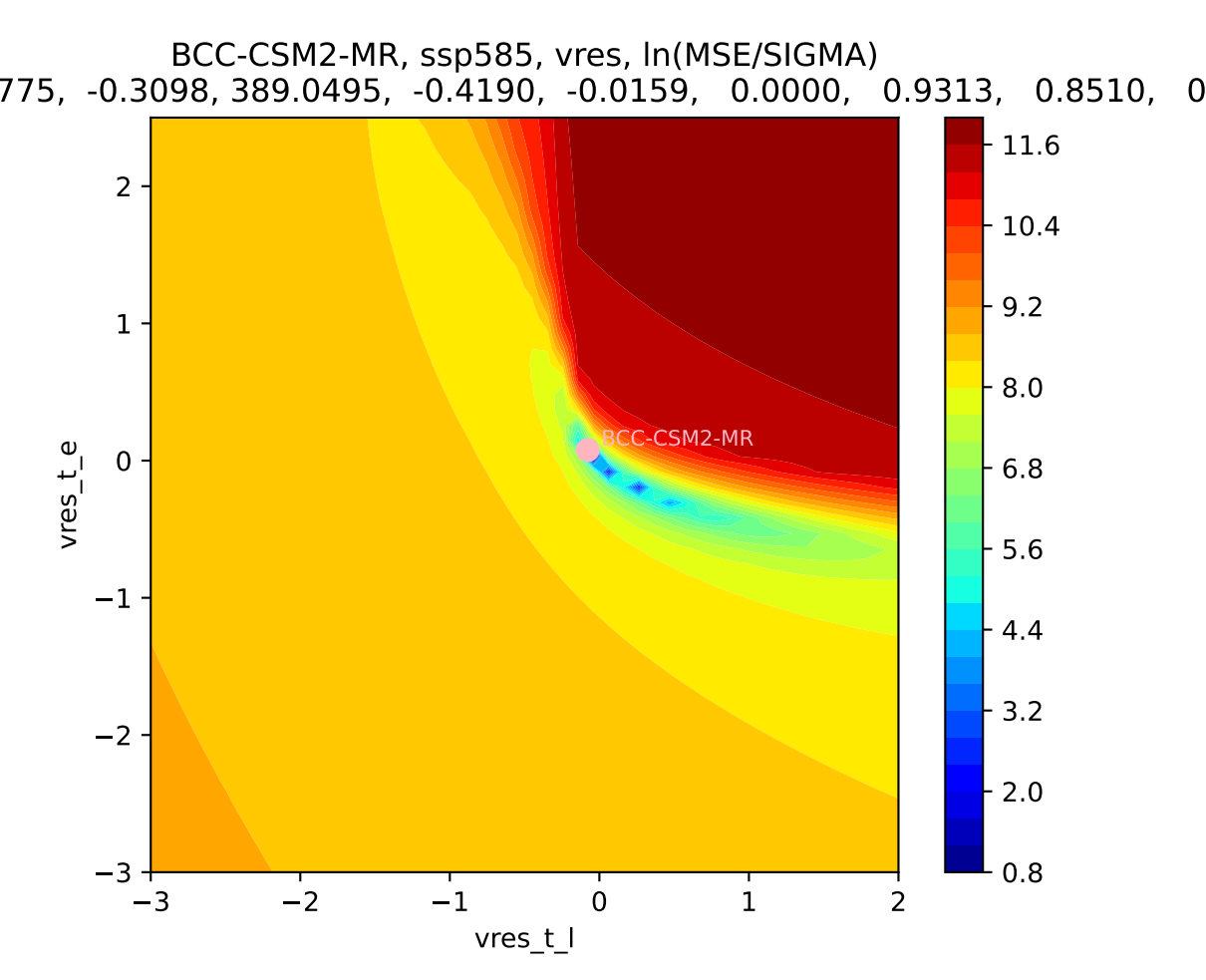

BCC-CSM2-MR, ssp585, vres
ESM-Fit
vres, ESM - FIT
Year

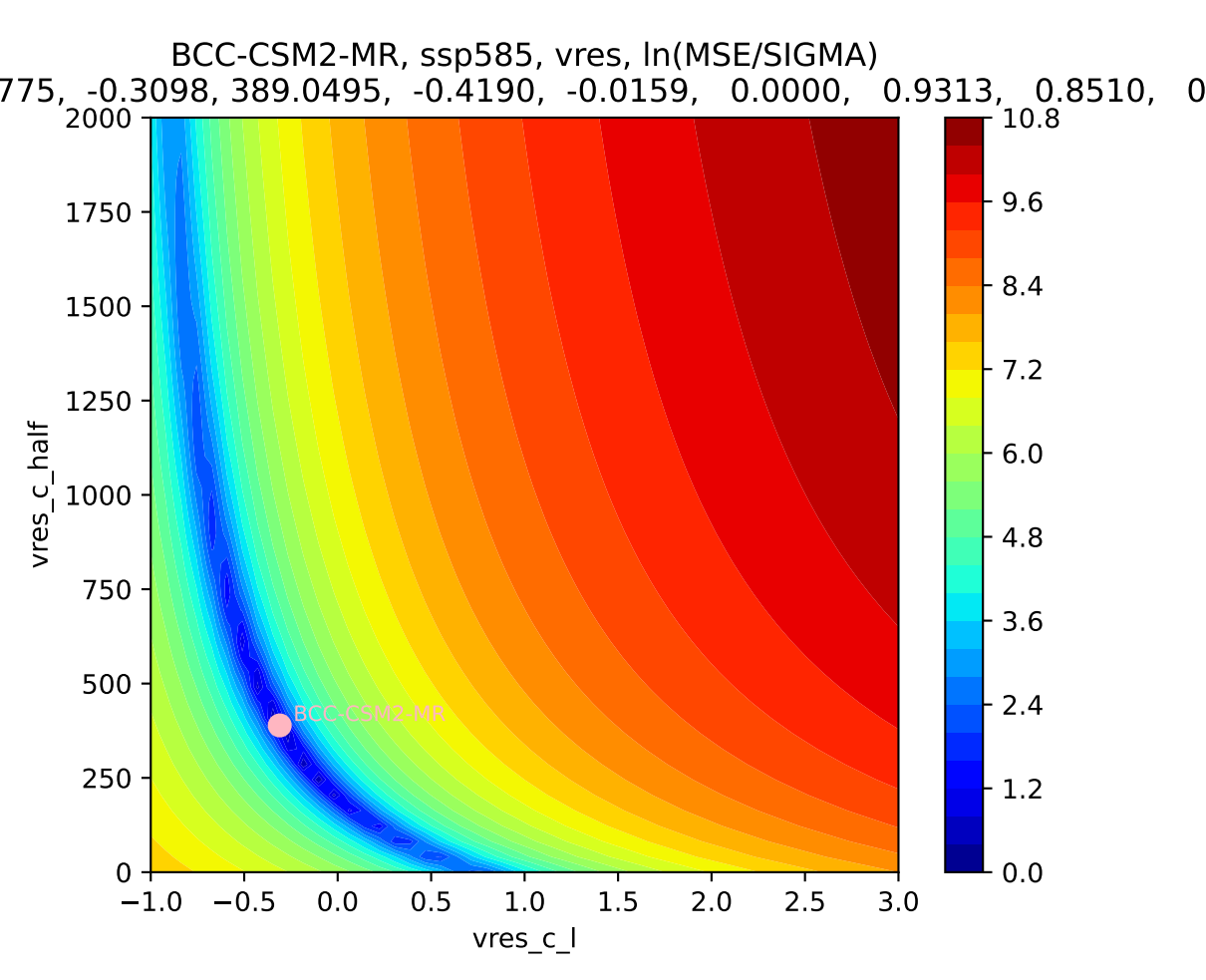

BCC-CSM2-MR, ssp585, vres
ESM
Fit
vres
ΔT

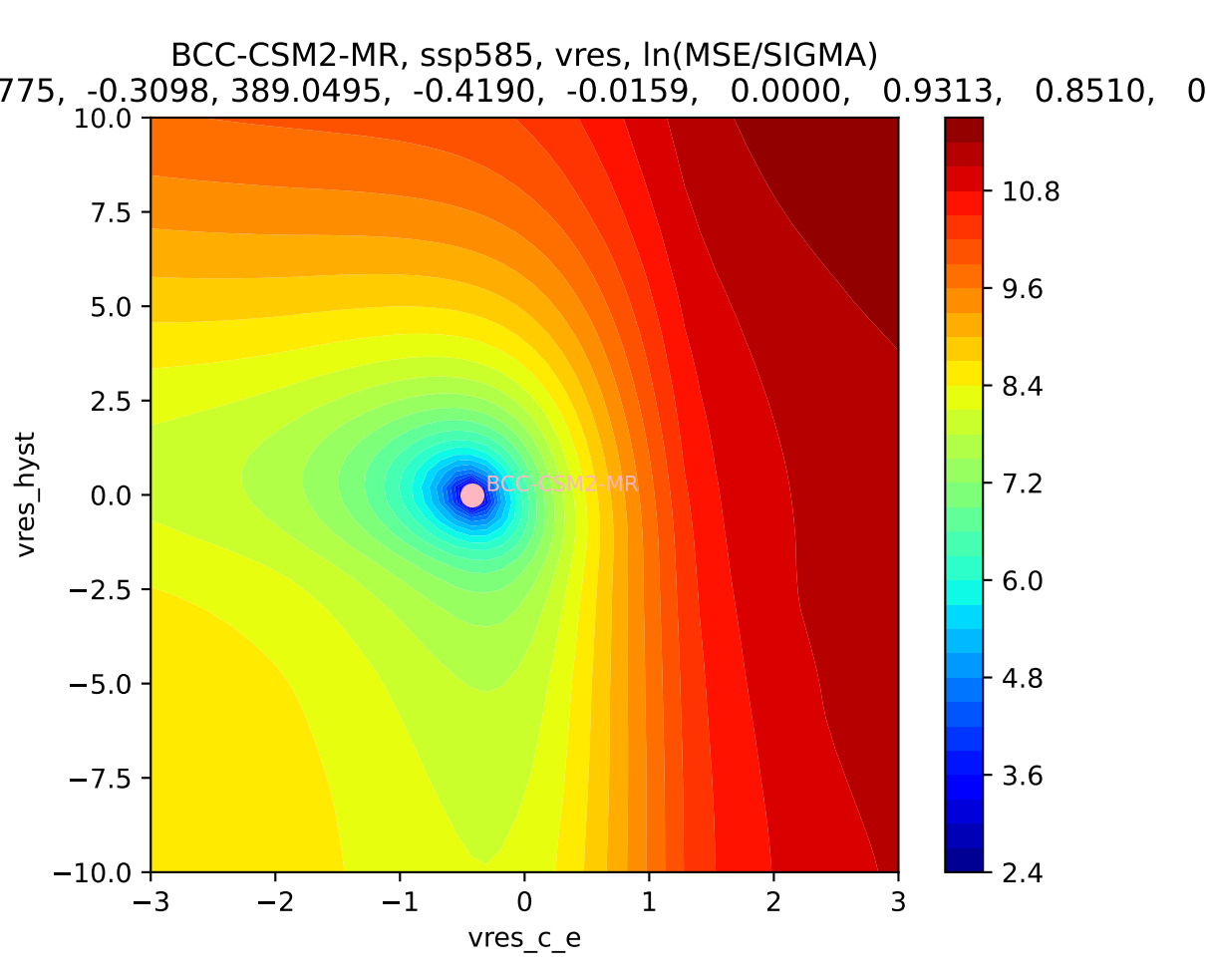

BCC-CSM2-MR, ssp585, vres
ESM-Fit
vres, ESM - FIT
ΔT

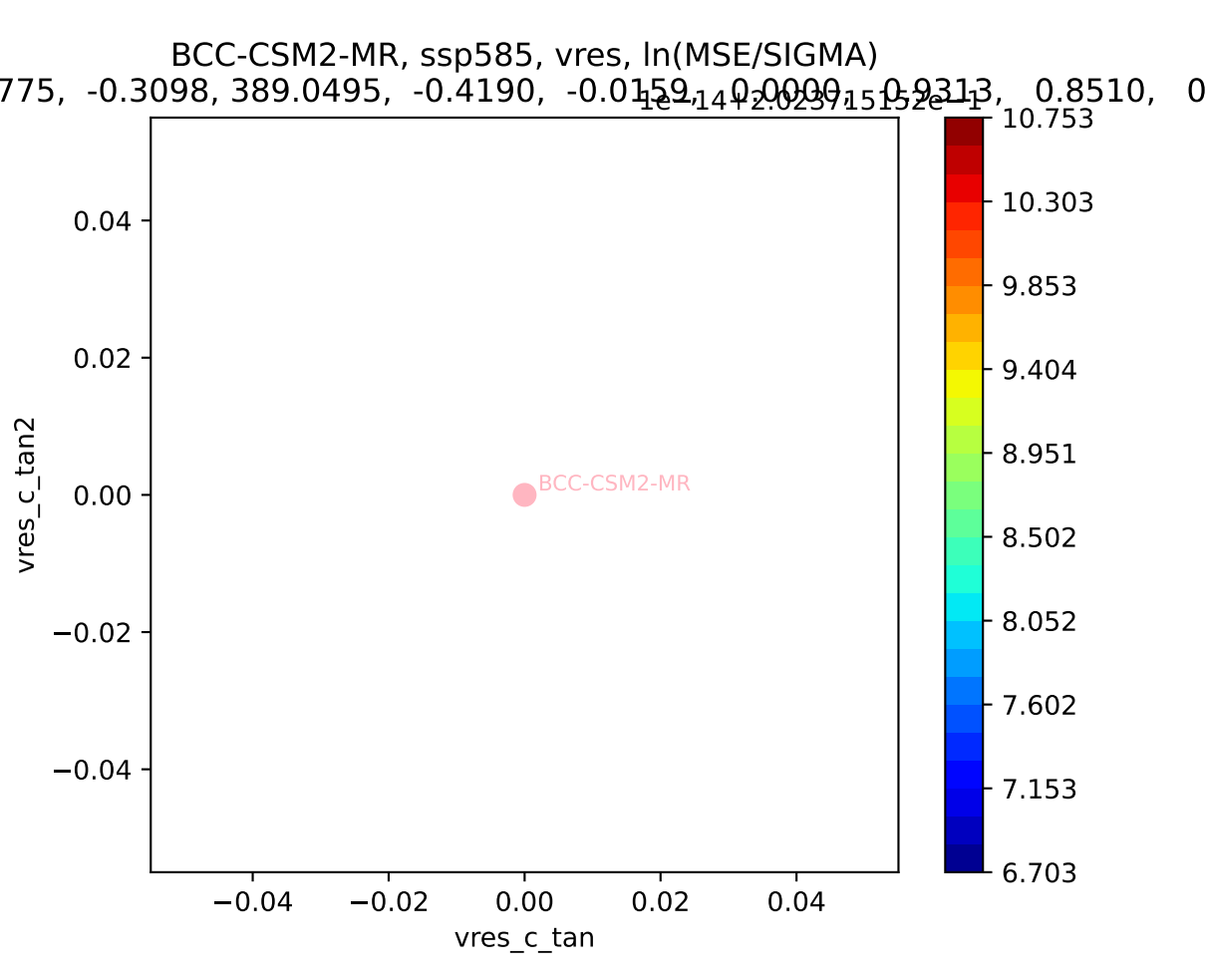

BCC-CSM2-MR, ssp585, vres
ESM
Fit
vres
c_atm

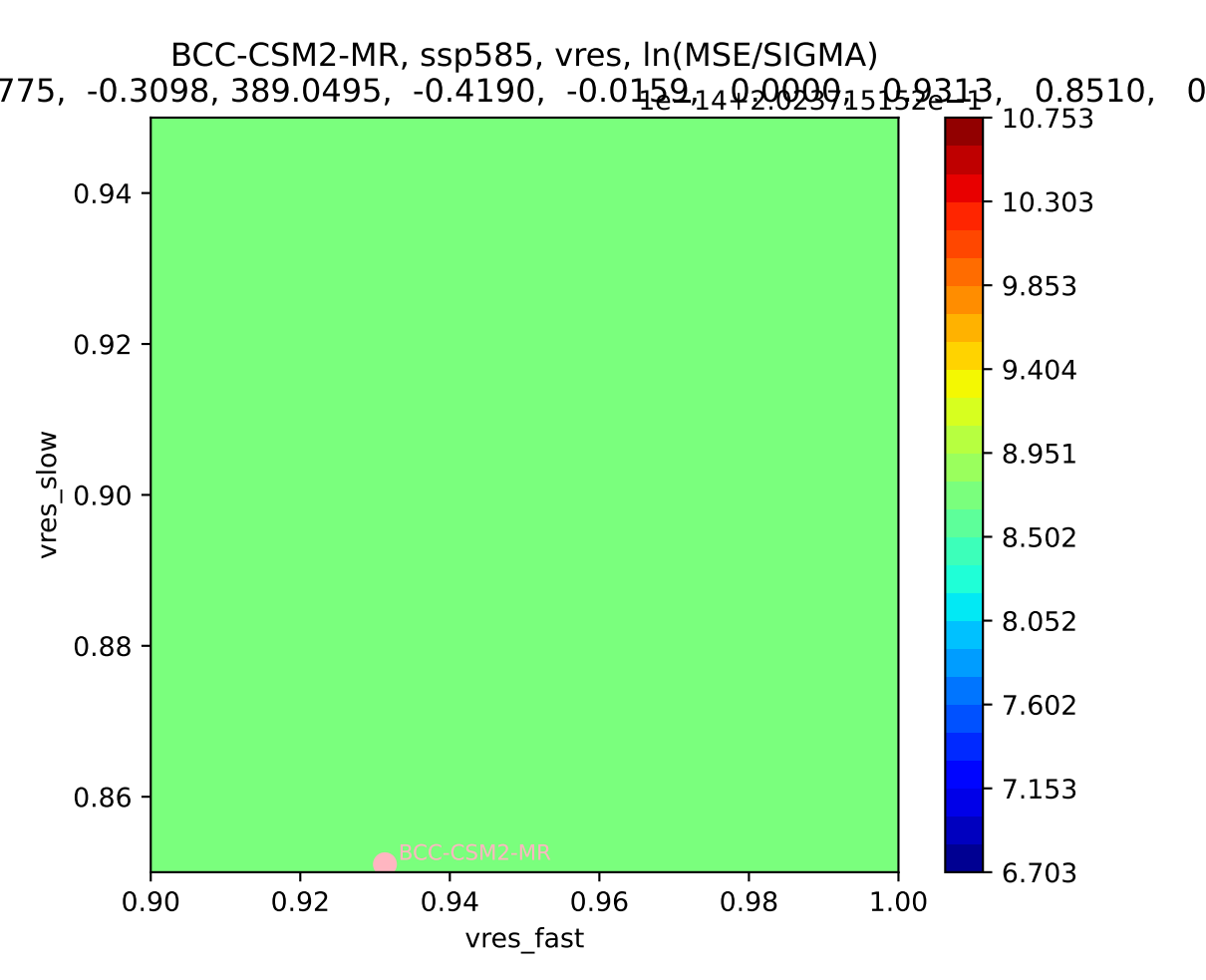

BCC-CSM2-MR, ssp585, vres
ESM-Fit
vres, ESM - FIT
c_atm

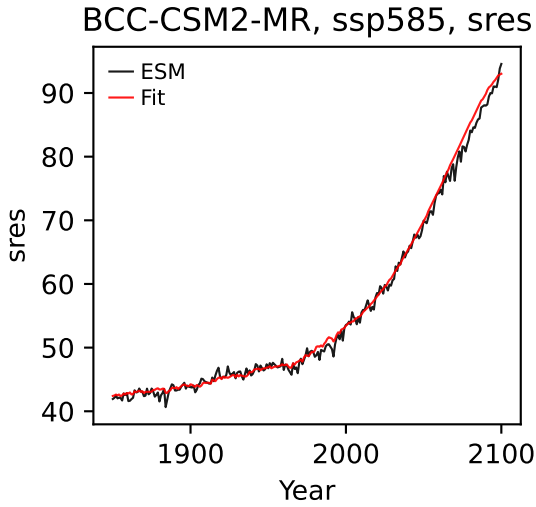

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
775, -0.3098, 389.0495, -0.4190, -0.0159, 0.0000, 0.9313, 0.8510, 0
BCC-CSM2-MR
vres_t_e
vres_t_l
11.6
10.4
9.2
8.0
6.8
5.6
4.4
3.2
2.0
0.8

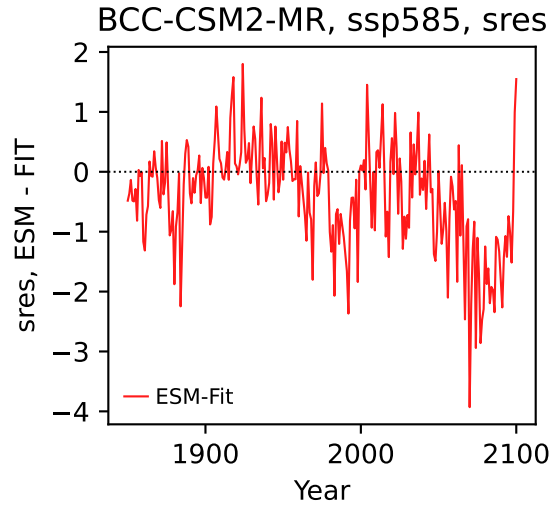

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
775, -0.3098, 389.0495, -0.4190, -0.0159, 0.0000, 0.9313, 0.8510, 0
vres_c_half
vres_c_l
BCC-CSM2-MR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

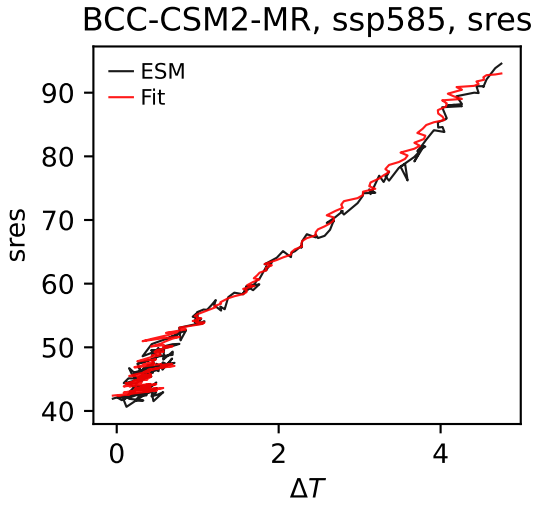

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
775, -0.3098, 389.0495, -0.4190, -0.0159, 0.0000, 0.9313, 0.8510, 0
BCC-CSM2-MR
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4

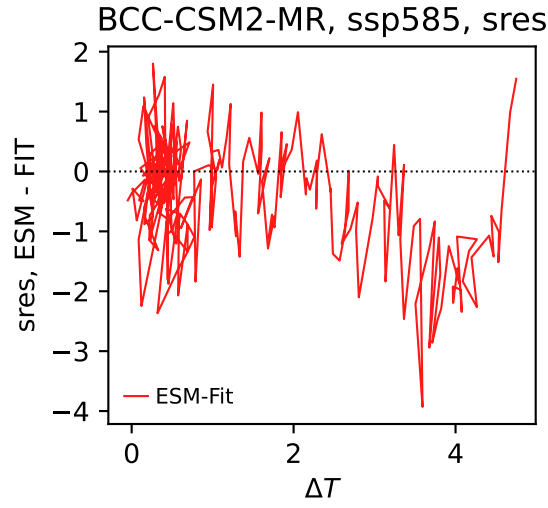

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
775, -0.3098, 389.0495, -0.4190, -0.0159, 0.0000, 0.9313, 0.8510, 0
1e−14+2.0237151526e−1
10.753
10.303
9.853
9.404
8.951
8.502
8.052
7.602
7.153
6.703
BCC-CSM2-MR
0.04
0.02
0.00
−0.02
−0.04
vres_c_tan2
−0.04
−0.02
0.00
0.02
0.04
vres_c_tan

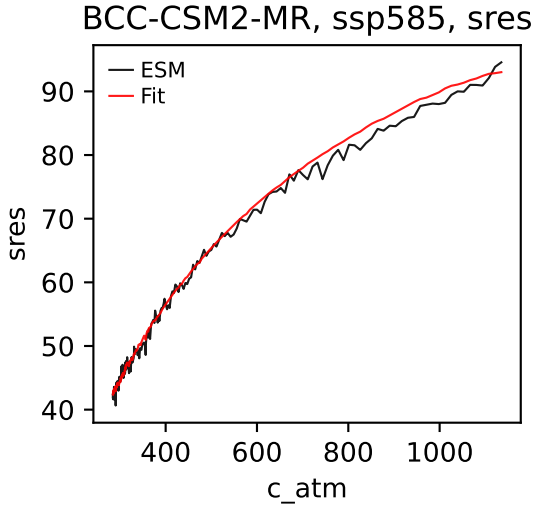

BCC-CSM2-MR, ssp585, vres, ln(MSE/SIGMA)
775, -0.3098, 389.0495, -0.4190, -0.0159, 0.0000, 0.9313, 0.8510, 0
1e−14+2.0237151526e−1
10.753
10.303
9.853
9.404
8.951
8.502
8.052
7.602
7.153
6.703
0.94
0.92
0.90
0.88
0.86
vres_slow
BCC-CSM2-MR
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast

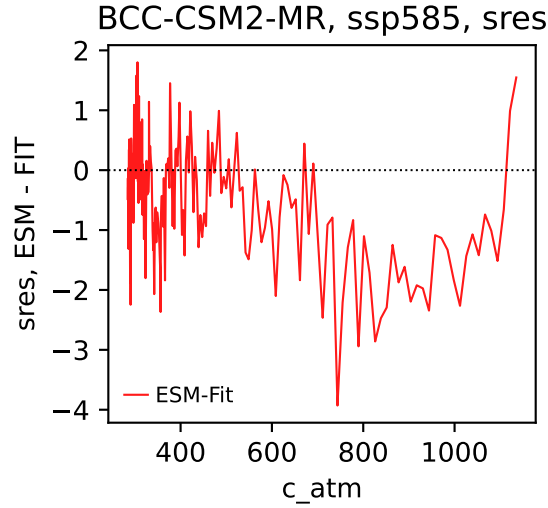

BCC-CSM2-MR, ssp585, sres
ESM
Fit
sres
Year

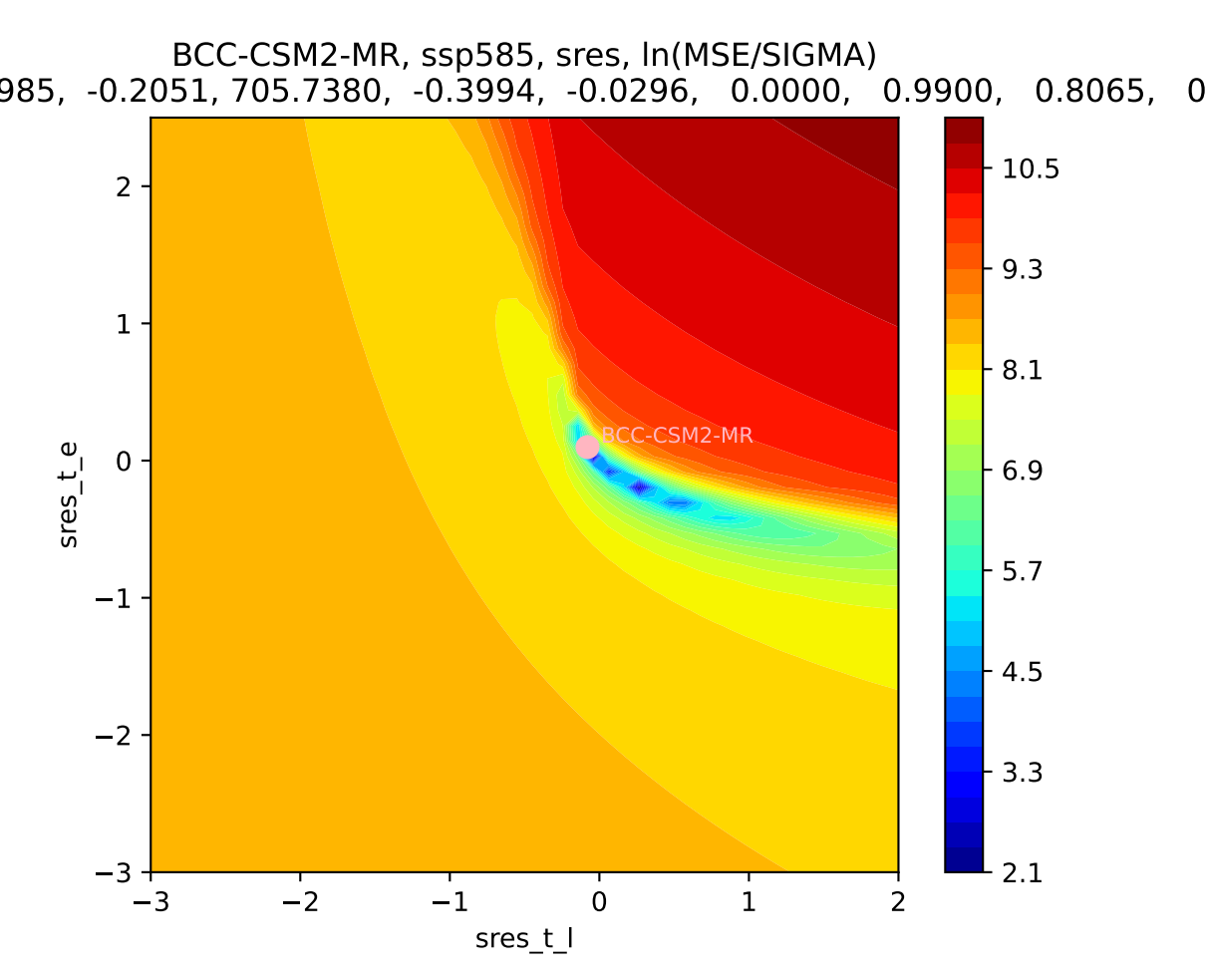

BCC-CSM2-MR, ssp585, sres
sres, ESM - FIT
ESM-Fit
Year

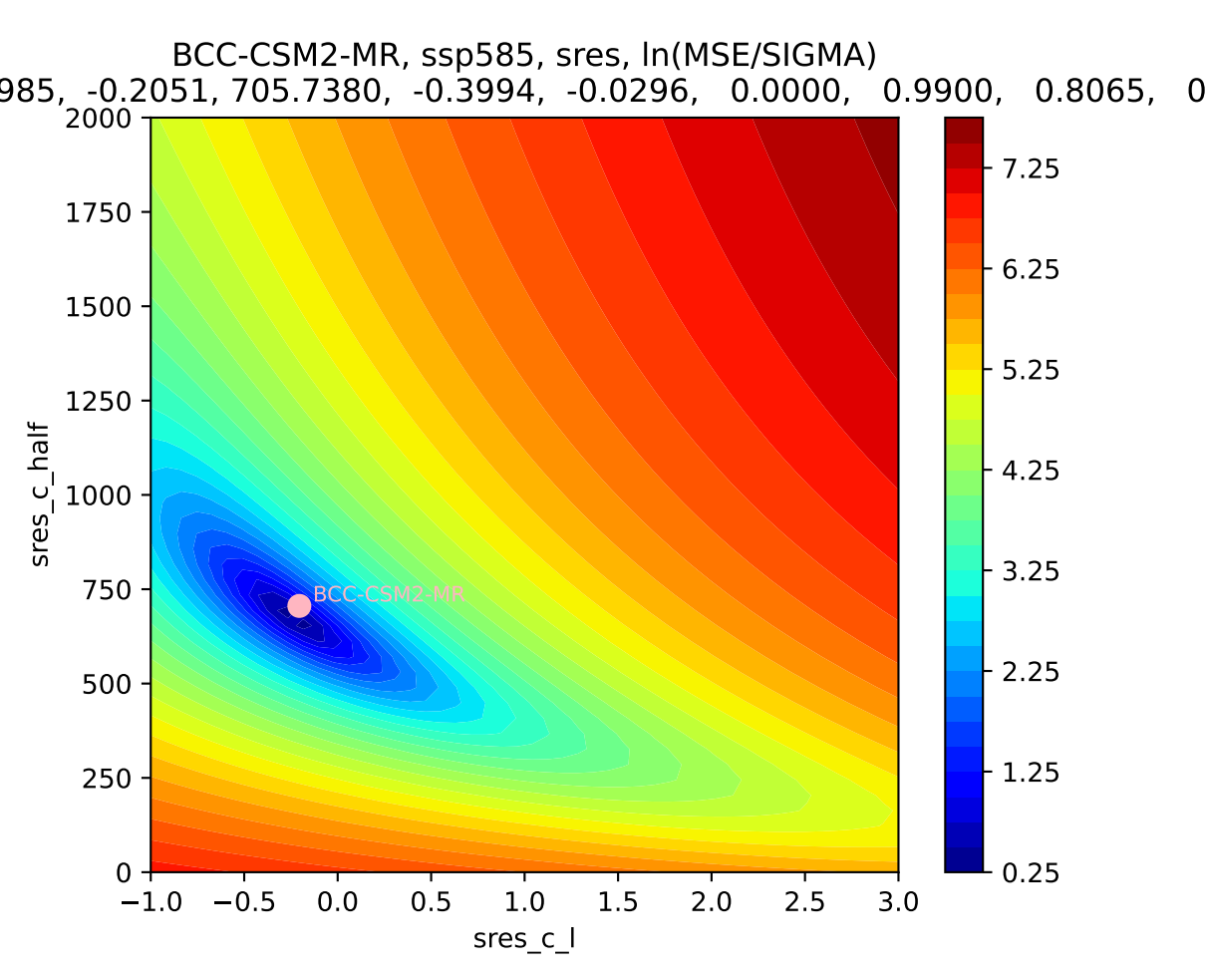

BCC-CSM2-MR, ssp585, sres
ESM
Fit
sres
ΔT

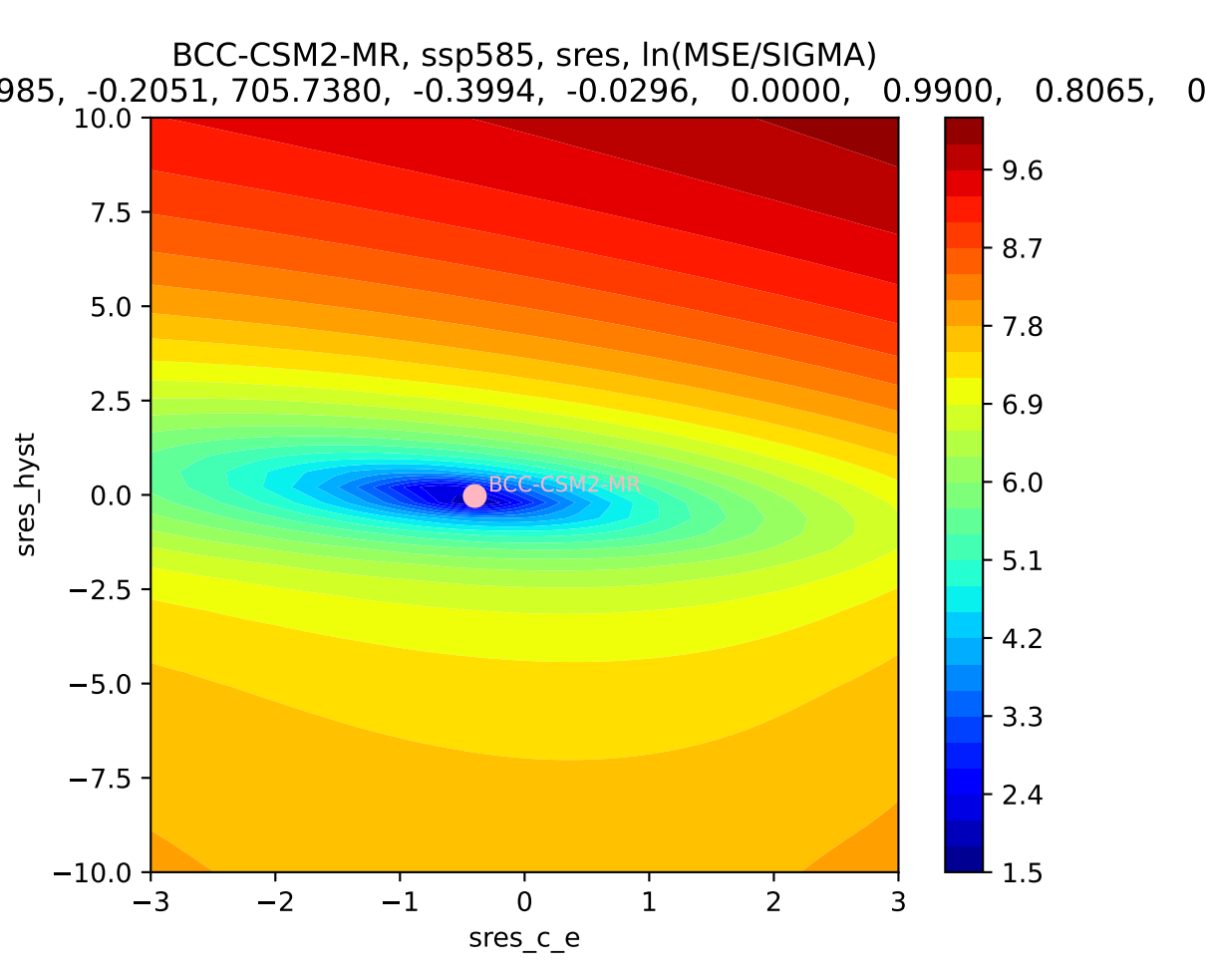

BCC-CSM2-MR, ssp585, sres
sres, ESM - FIT
ESM-Fit
ΔT

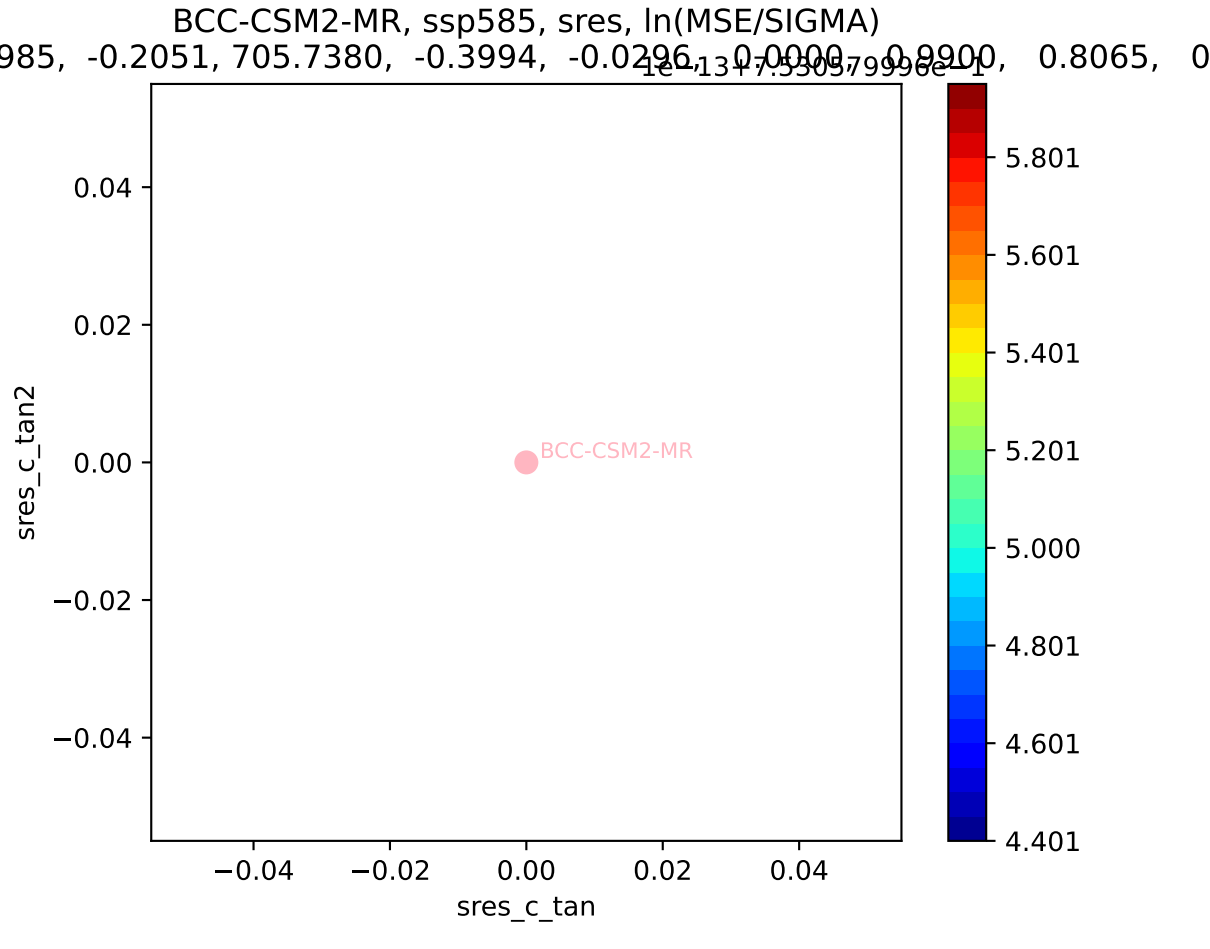

BCC-CSM2-MR, ssp585, sres
ESM
Fit
sres
c_atm

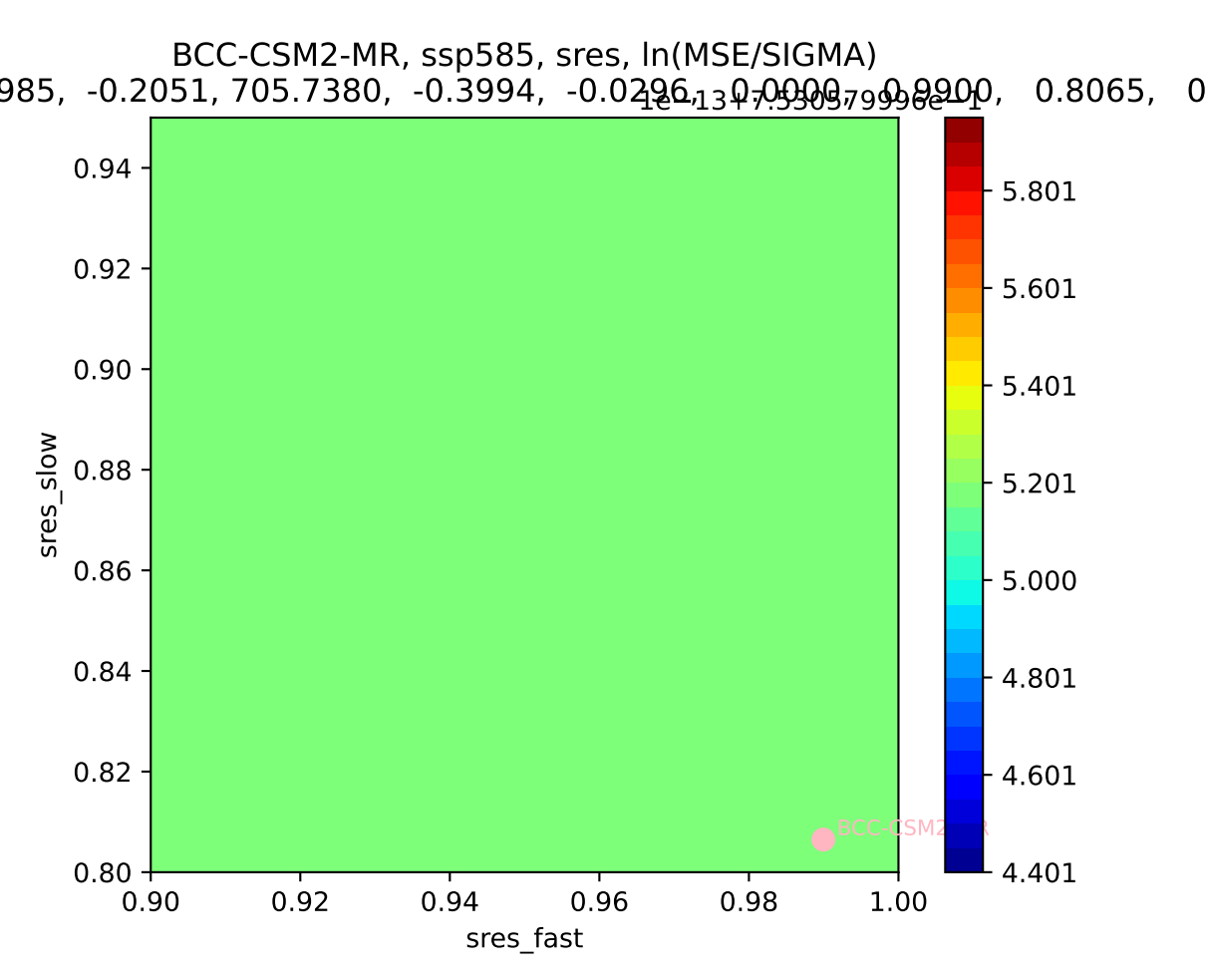

BCC-CSM2-MR, ssp585, sres
sres, ESM - FIT
ESM-Fit
c_atm

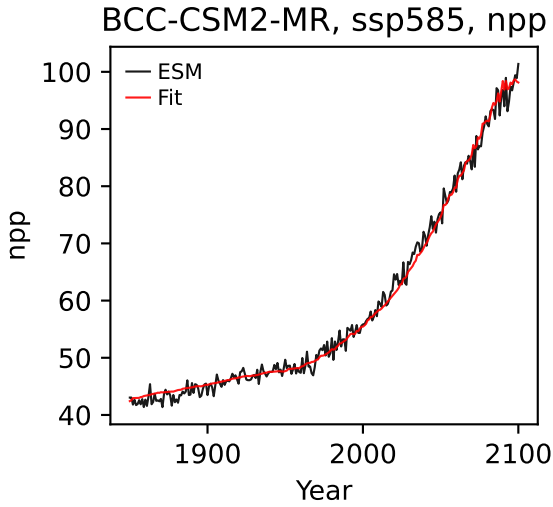

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
985, -0.2051, 705.7380, -0.3994, -0.0296, 0.0000, 0.9900, 0.8065, 0
BCC-CSM2-MR
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
10.5
9.3
8.1
6.9
5.7
4.5
3.3
2.1

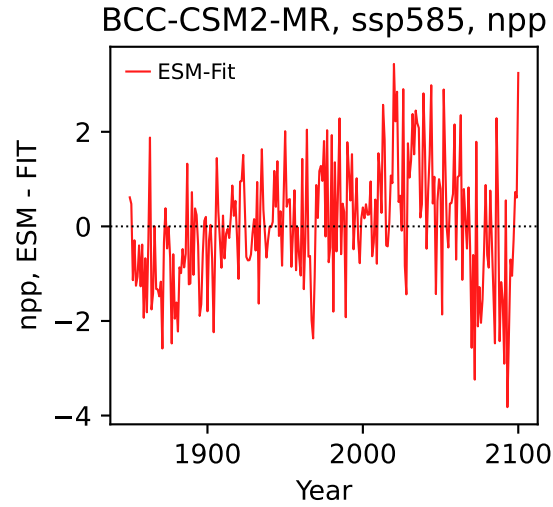

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
985, -0.2051, 705.7380, -0.3994, -0.0296, 0.0000, 0.9900, 0.8065, 0
sres_c_half
sres_c_l
BCC-CSM2-MR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

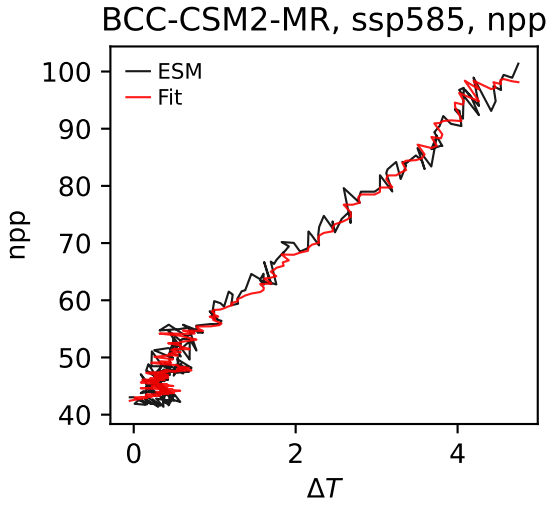

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
985, -0.2051, 705.7380, -0.3994, -0.0296, 0.0000, 0.9900, 0.8065, 0
BCC-CSM2-MR
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5

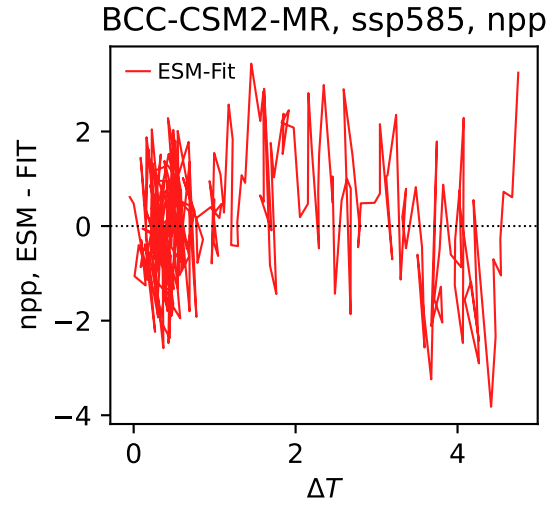

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
985, -0.2051, 705.7380, -0.3994, -0.0296, 0.0000, 0.9900, 0.8065, 0
1e−13+7.5305799966e−1
BCC-CSM2-MR
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
5.801
5.601
5.401
5.201
5.000
4.801
4.601
4.401

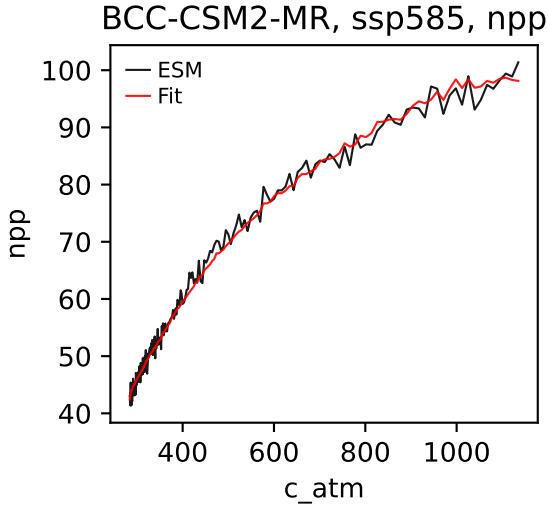

BCC-CSM2-MR, ssp585, sres, ln(MSE/SIGMA)
985, -0.2051, 705.7380, -0.3994, -0.0296, 0.0000, 0.9900, 0.8065, 0
1e−13+7.5305799996e−1
sres_slow
sres_fast
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
0.90
0.92
0.94
0.96
0.98
1.00
5.801
5.601
5.401
5.201
5.000
4.801
4.601
4.401

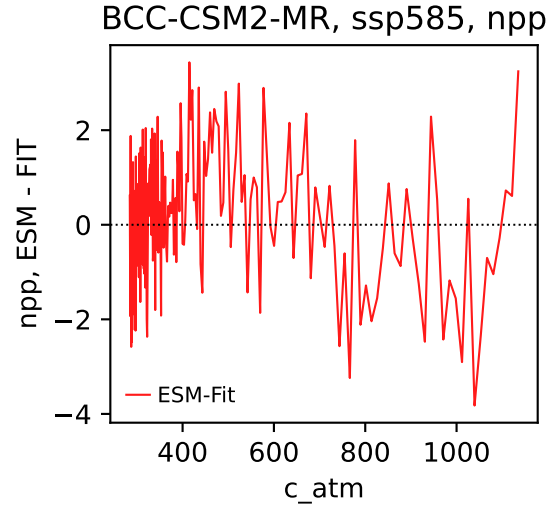

BCC-CSM2-MR, ssp585, npp
ESM
Fit
npp
Year

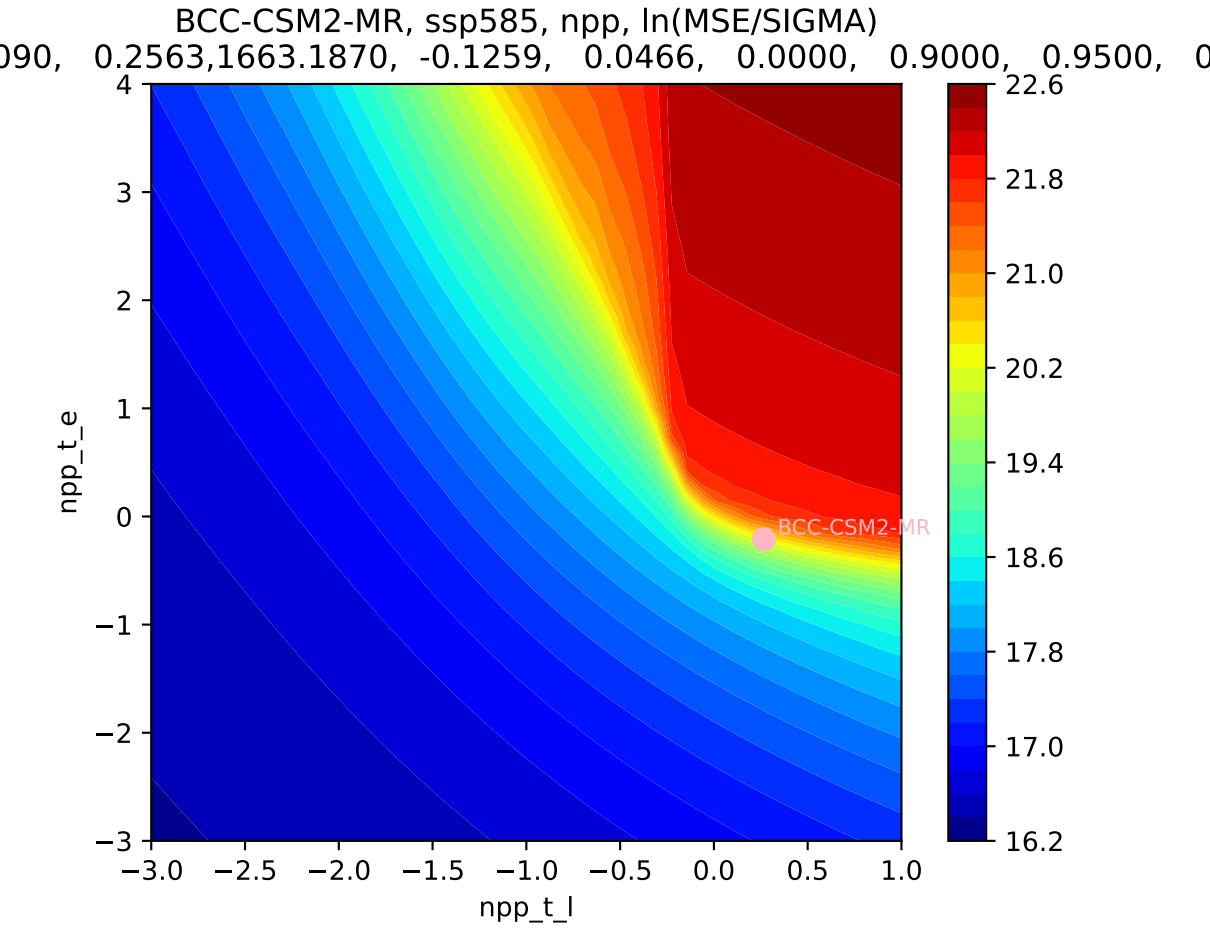

BCC-CSM2-MR, ssp585, npp
ESM-Fit
npp, ESM - FIT
Year

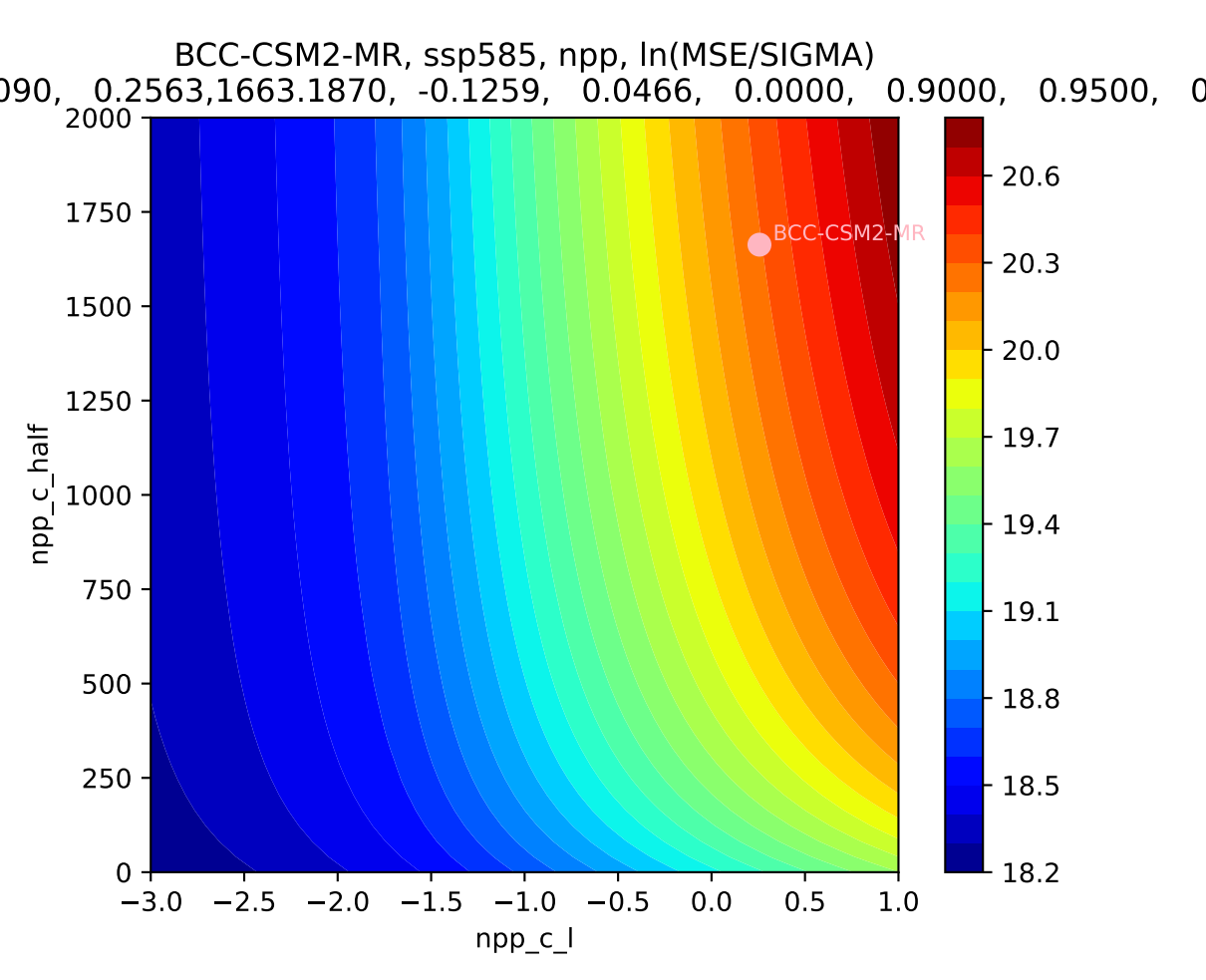

BCC-CSM2-MR, ssp585, npp
ESM
Fit
npp
ΔT

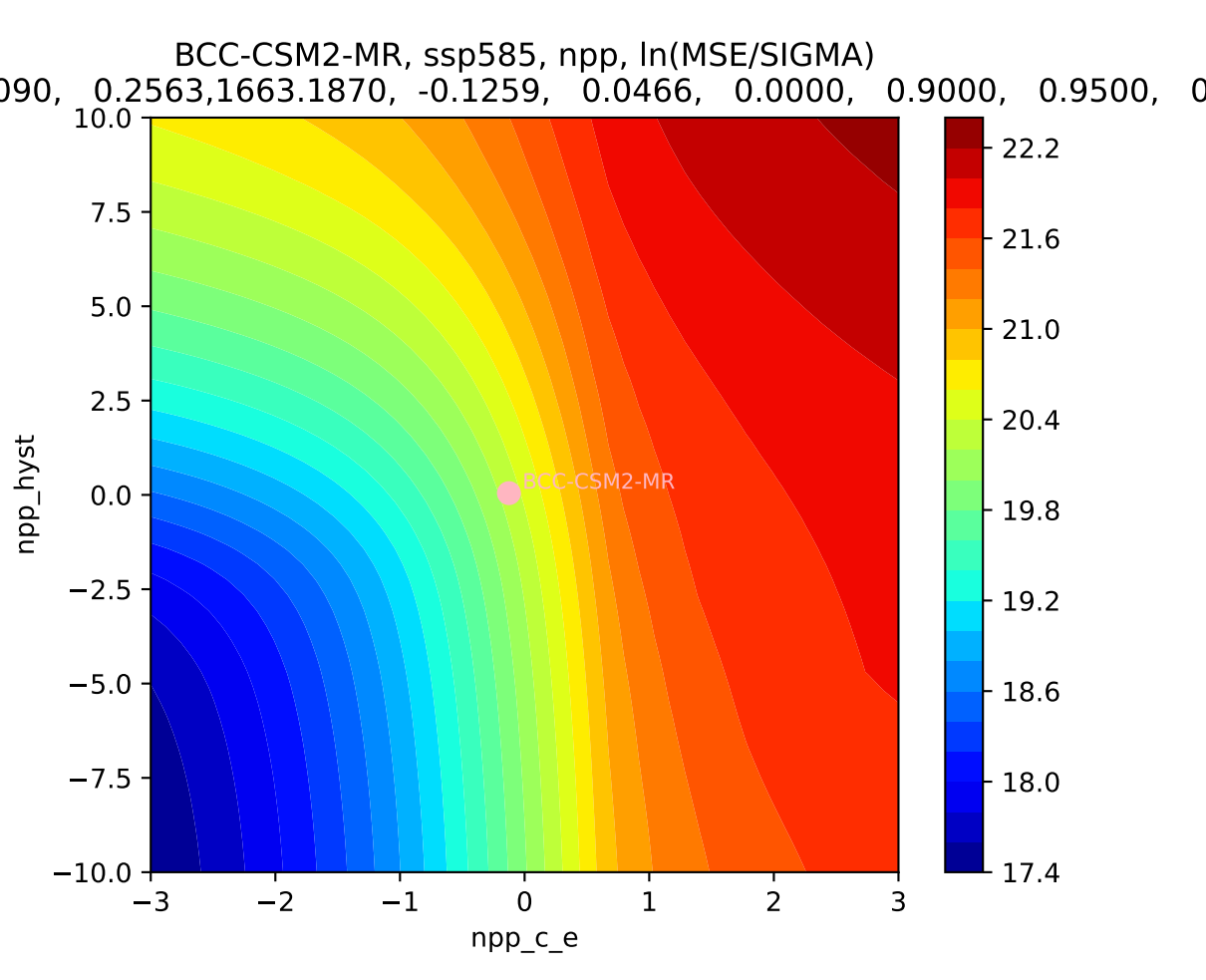

BCC-CSM2-MR, ssp585, npp
ESM-Fit
npp, ESM - FIT
ΔT

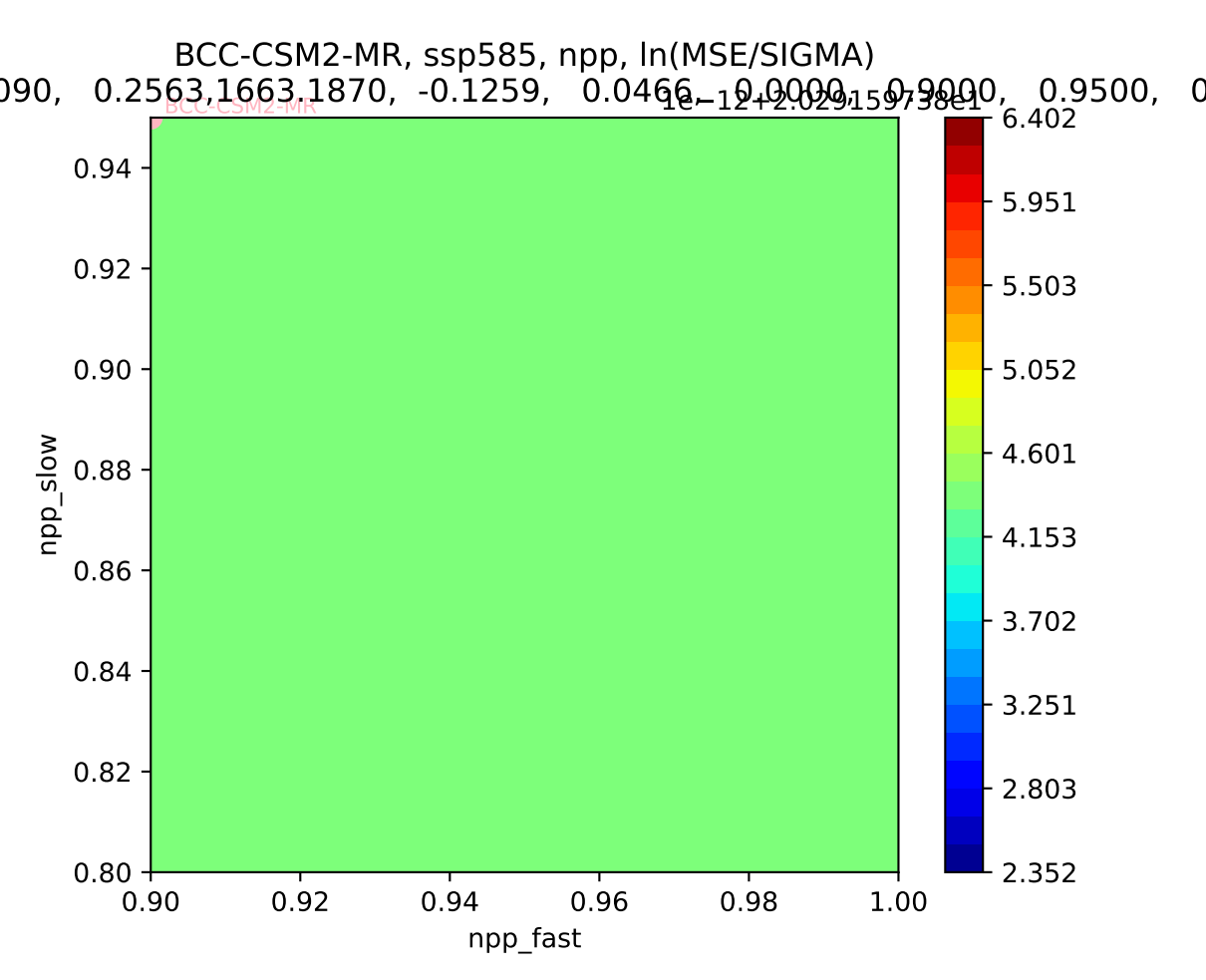

BCC-CSM2-MR, ssp585, npp
ESM
Fit
npp
c_atm

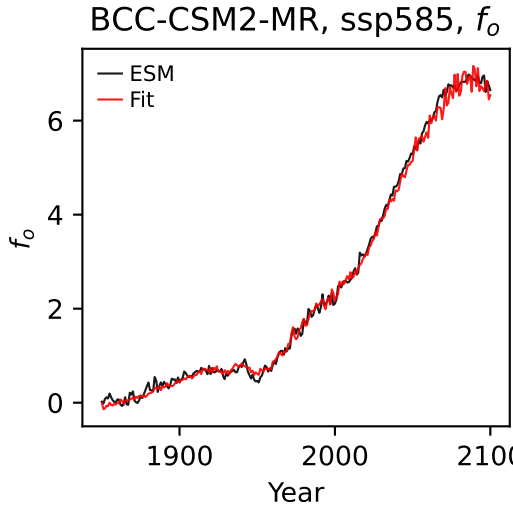

BCC-CSM2-MR, ssp585, npp
ESM-Fit
npp, ESM - FIT
c_atm

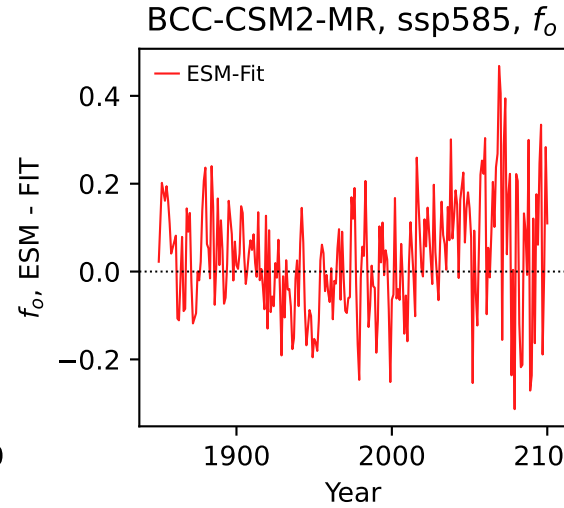

BCC-CSM2-MR, ssp585, npp, ln(MSE/SIGMA)
090, 0.2563,1663.1870, -0.1259, 0.0466, 0.0000, 0.9000, 0.9500, 0
BCC-CSM2-MR
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.6
21.8
21.0
20.2
19.4
18.6
17.8
17.0
16.2

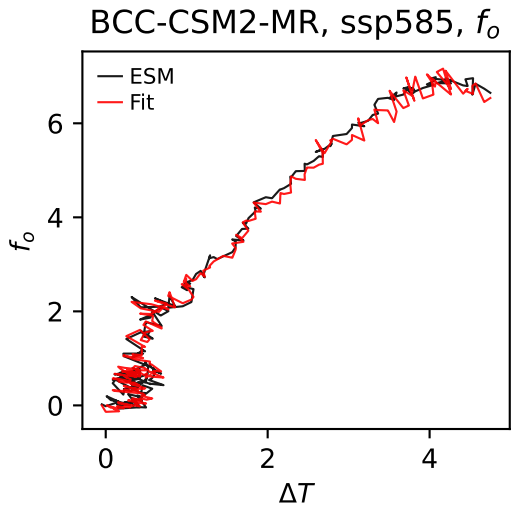

BCC-CSM2-MR, ssp585, npp, ln(MSE/SIGMA)
090, 0.2563,1663.1870, -0.1259, 0.0466, 0.0000, 0.9000, 0.9500, 0
BCC-CSM2-MR
npp_c_half
npp_c_l
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
20.6
20.3
20.0
19.7
19.4
19.1
18.8
18.5
18.2

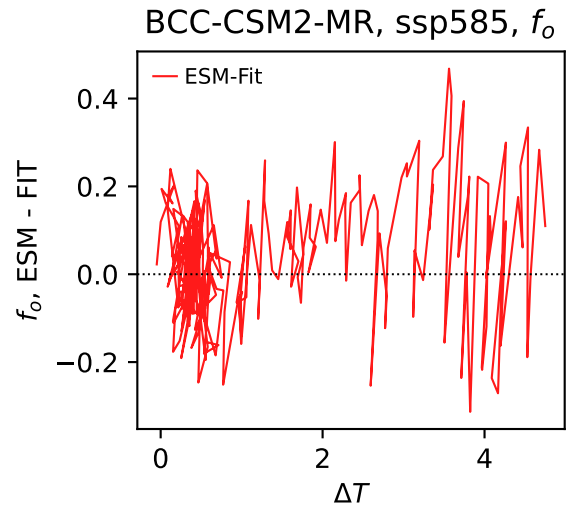

BCC-CSM2-MR, ssp585, npp, ln(MSE/SIGMA)
090, 0.2563,1663.1870, -0.1259, 0.0466, 0.0000, 0.9000, 0.9500, 0
BCC-CSM2-MR
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0
17.4

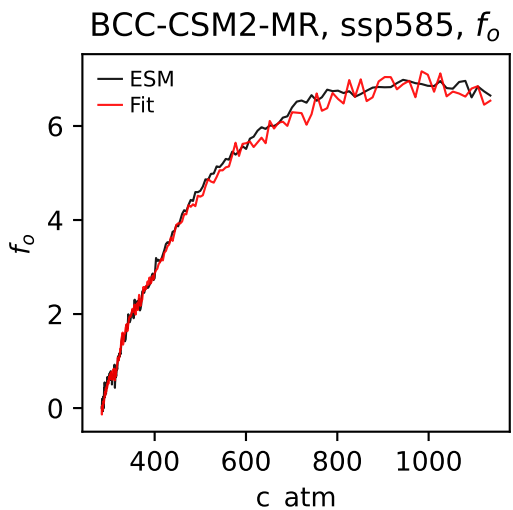

BCC-CSM2-MR, ssp585, npp, ln(MSE/SIGMA)
090, 0.2563,1663.1870, -0.1259, 0.0466, 0.0000, 0.9000, 0.9500, 0
BCC-CSM2-MR
1e−12+2.029159738e1
6.402
5.951
5.503
5.052
4.601
4.153
3.702
3.251
2.803
2.352
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast

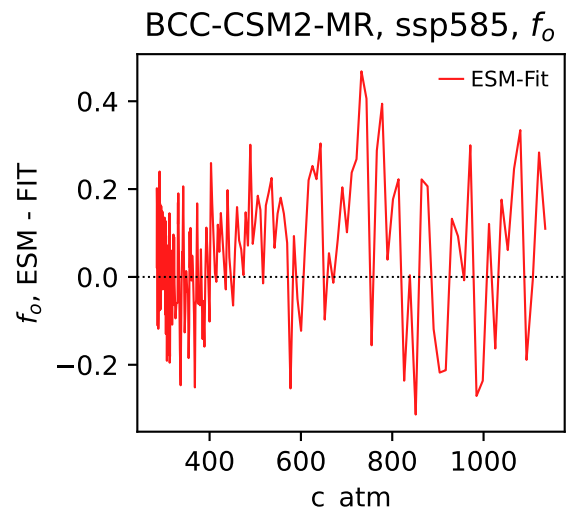

BCC-CSM2-MR, ssp585, f_o
ESM
Fit
f_o
Year

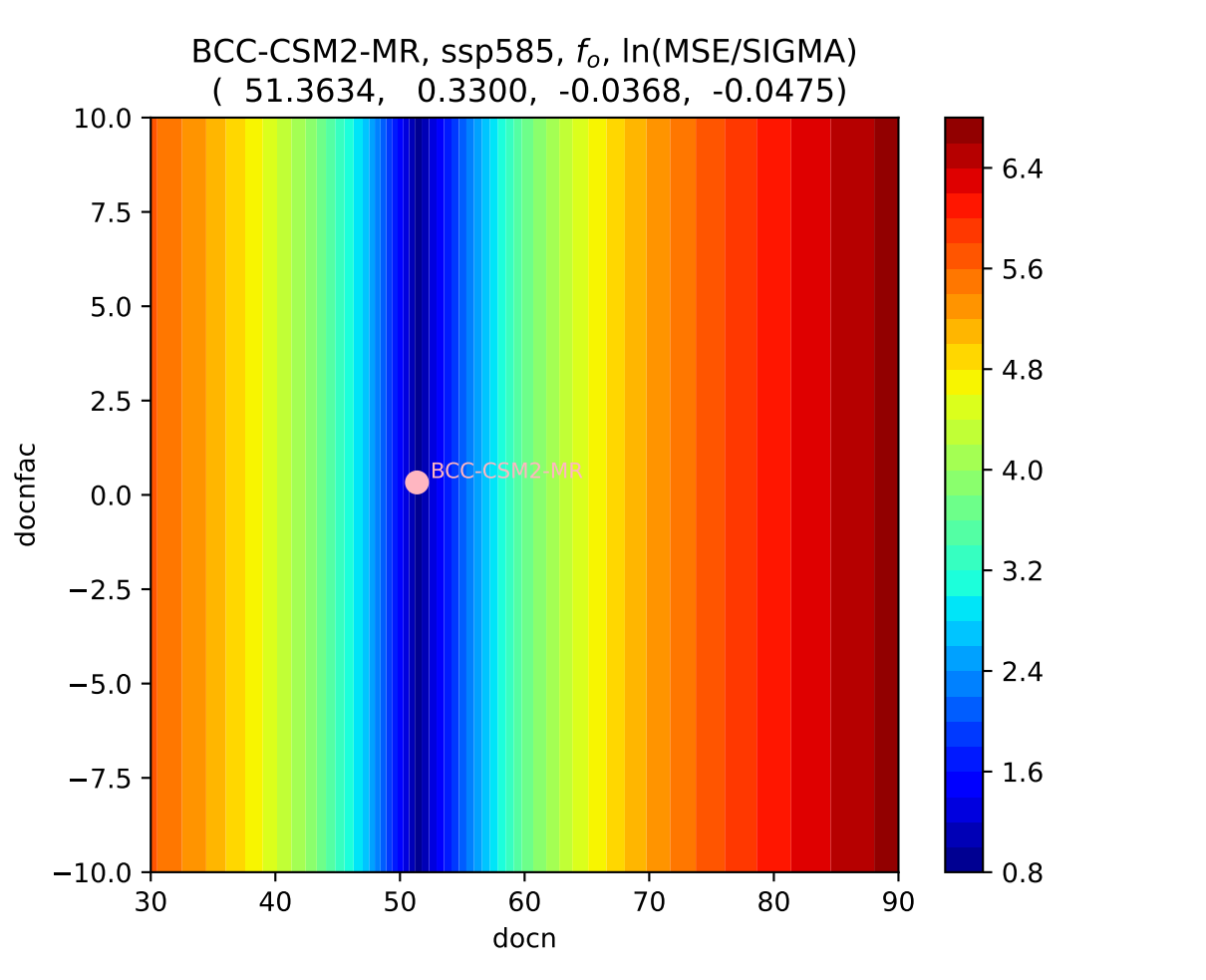

BCC-CSM2-MR, ssp585, f_o
ESM-Fit
f_o, ESM - FIT
Year

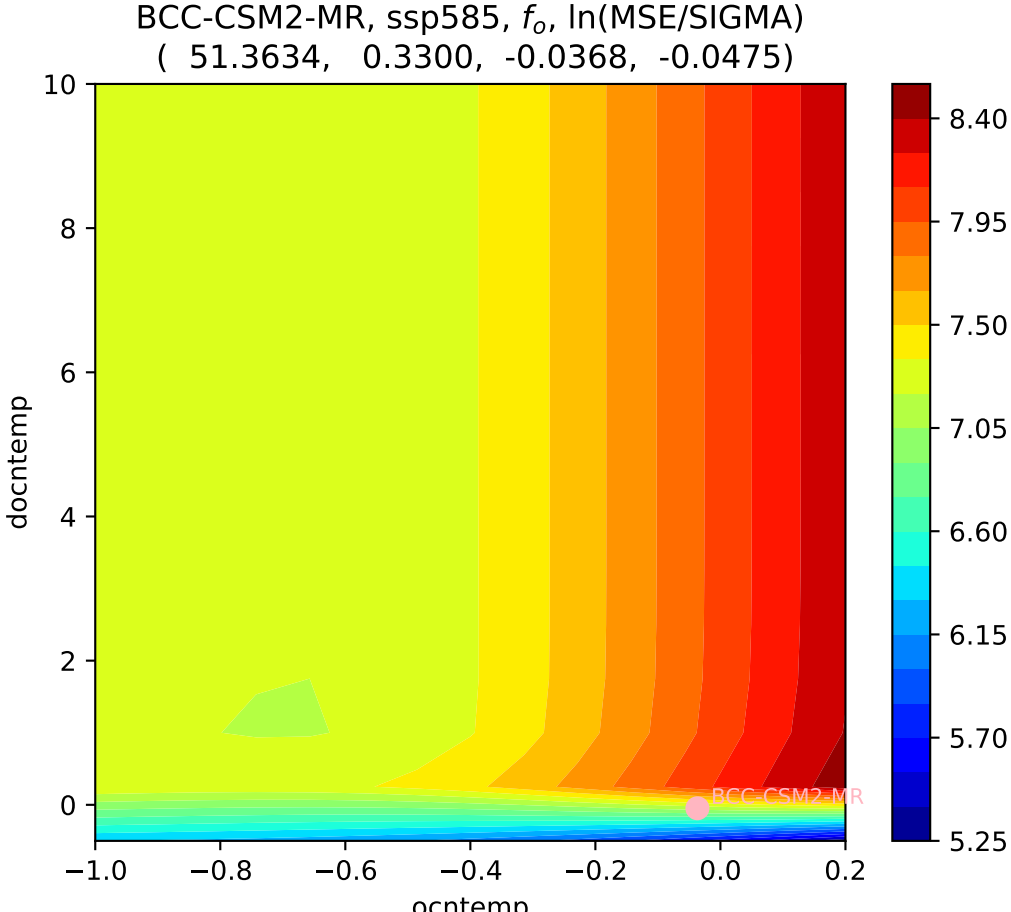

BCC-CSM2-MR, ssp585, f_o
ESM
Fit
f_o
ΔT


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)
(51.3634, 0.3300, -0.0368, -0.0475)
BCC-CSM2-MR
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
5.6
4.8
4.0
3.2
2.4
1.6
0.8


BCC-CSM2-MR, ssp585, f_o, ln(MSE/SIGMA)
(51.3634, 0.3300, -0.0368, -0.0475)
10
8
6
4
2
0
docntemp
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
ocntemp
BCC-CSM2-MR
8.40
7.95
7.50
7.05
6.60
6.15
5.70
5.25