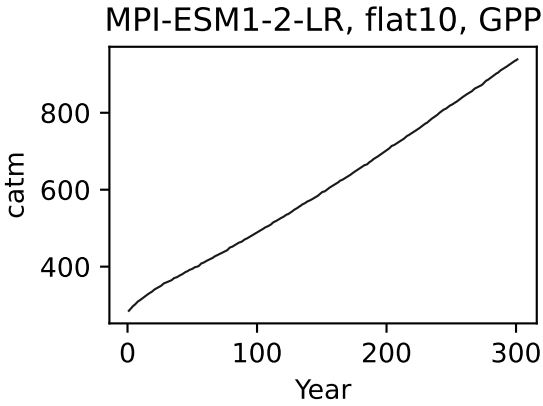
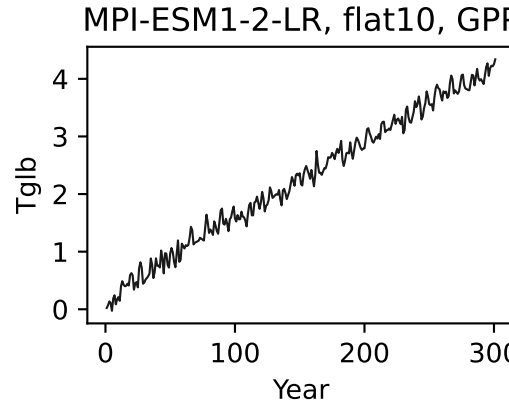
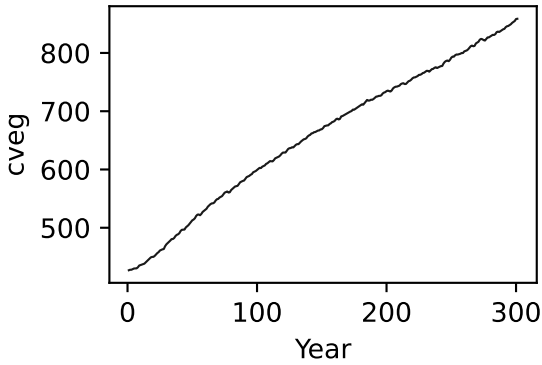
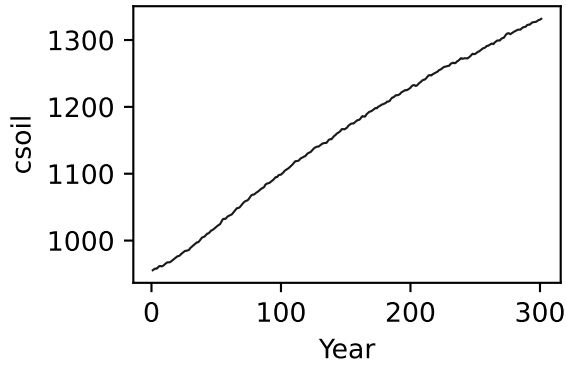
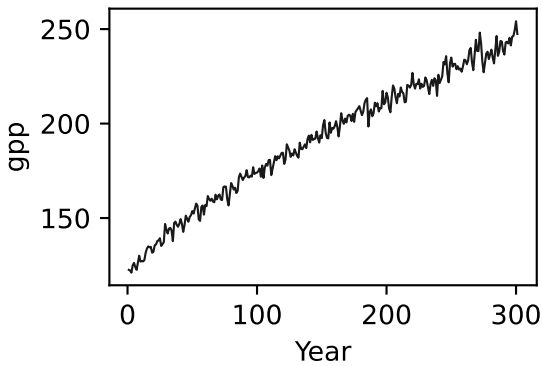
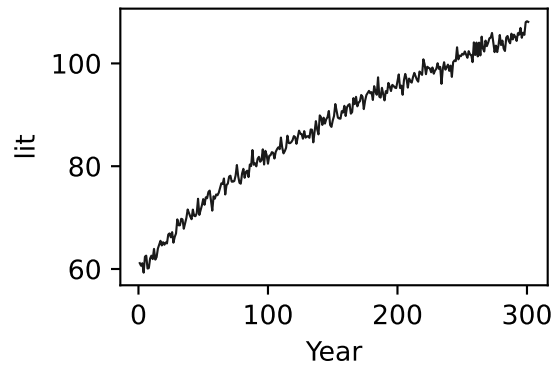

MPI-ESM1-2-LR, flat10, GPP
catm
800
600
400
0
100
200
300
Year

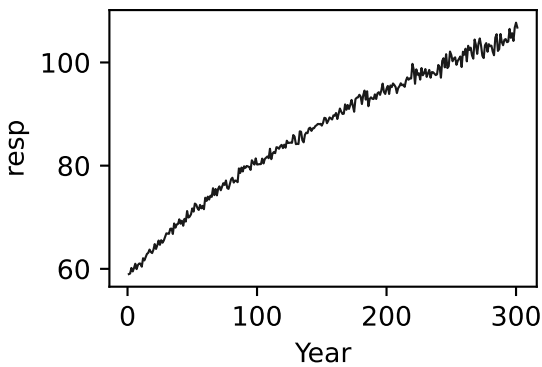

MPI-ESM1-2-LR, flat10, GPP
Tglb
4
3
2
1
0
0
100
200
300
Year

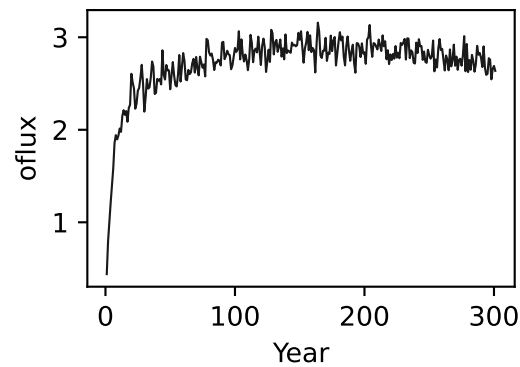

cveg
800
700
600
500
0
100
200
300
Year

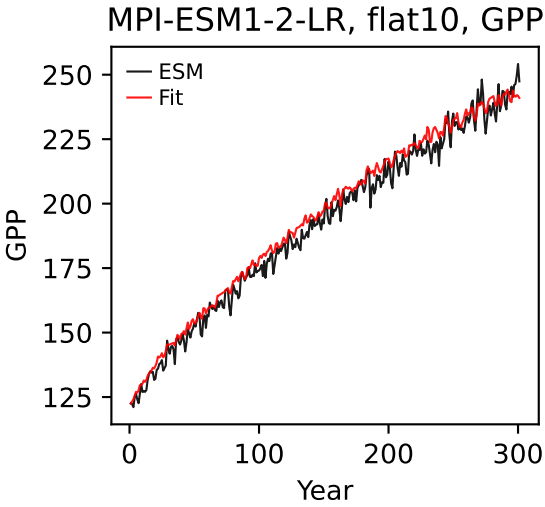

csoil
1300
1200
1100
1000
0
100
200
300
Year

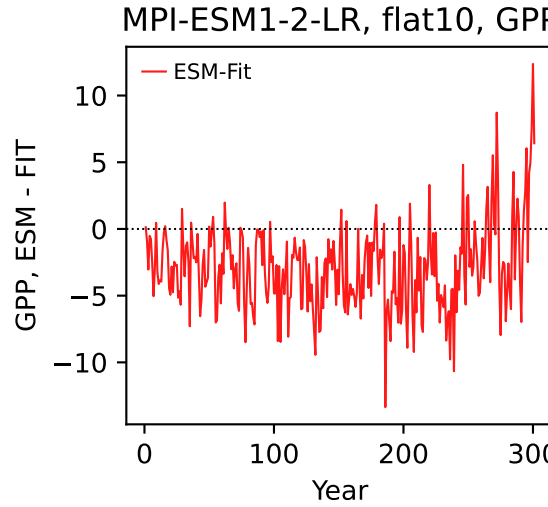

gpp
250
200
150
0
100
200
300
Year

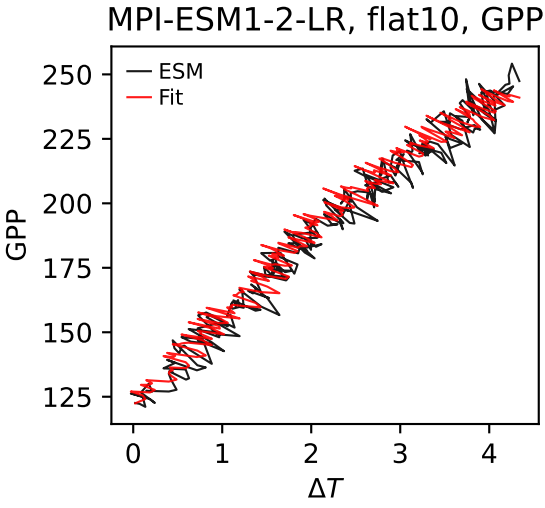

lit
100
80
60
0
100
200
300
Year

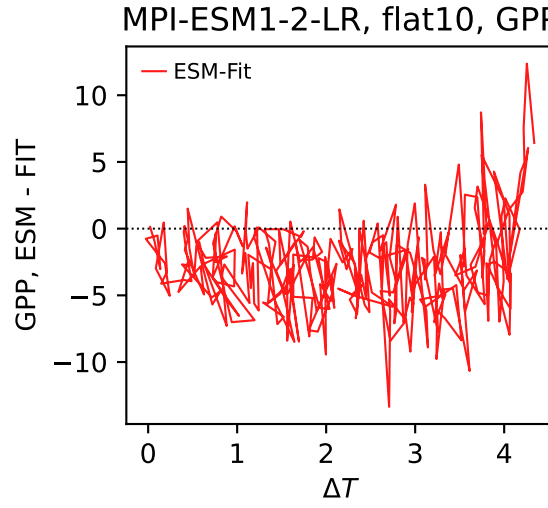

resp
100
80
60
0
100
200
300
Year

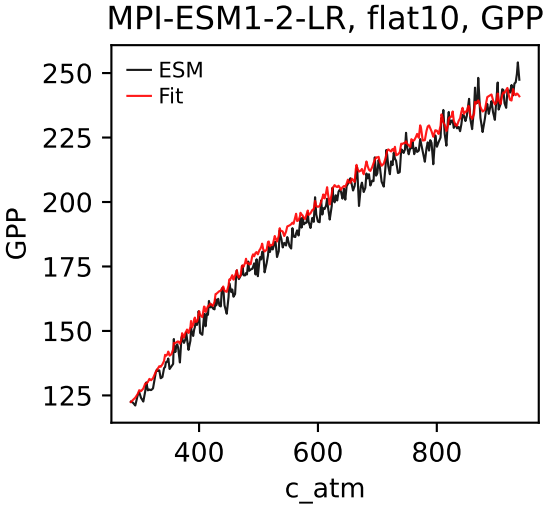

oflux
3
2
1
0
100
200
300
Year

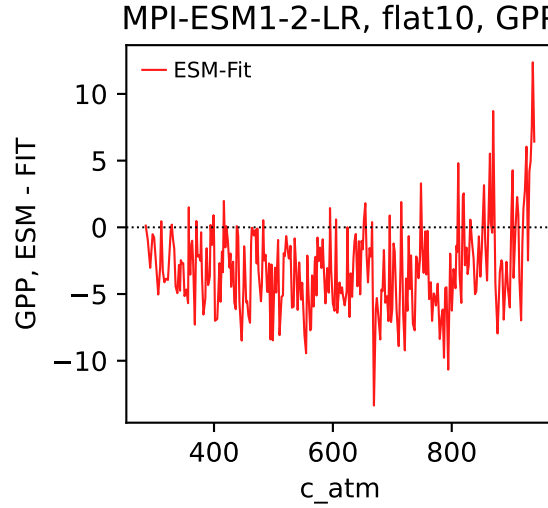

MPI-ESM1-2-LR, flat10, GPP
ESM
Fit
GPP
Year

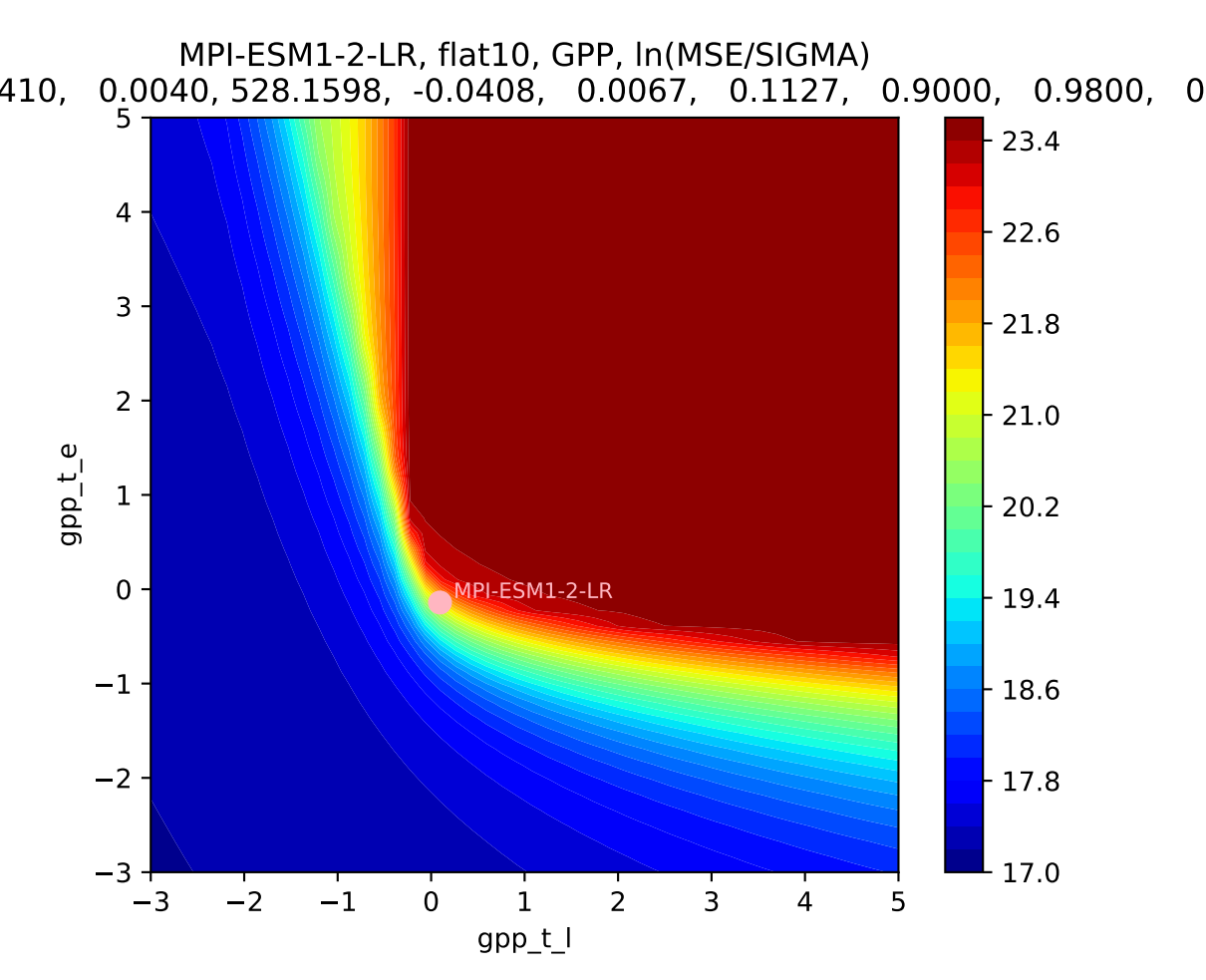

MPI-ESM1-2-LR, flat10, GPP
ESM-Fit
GPP, ESM - FIT
Year

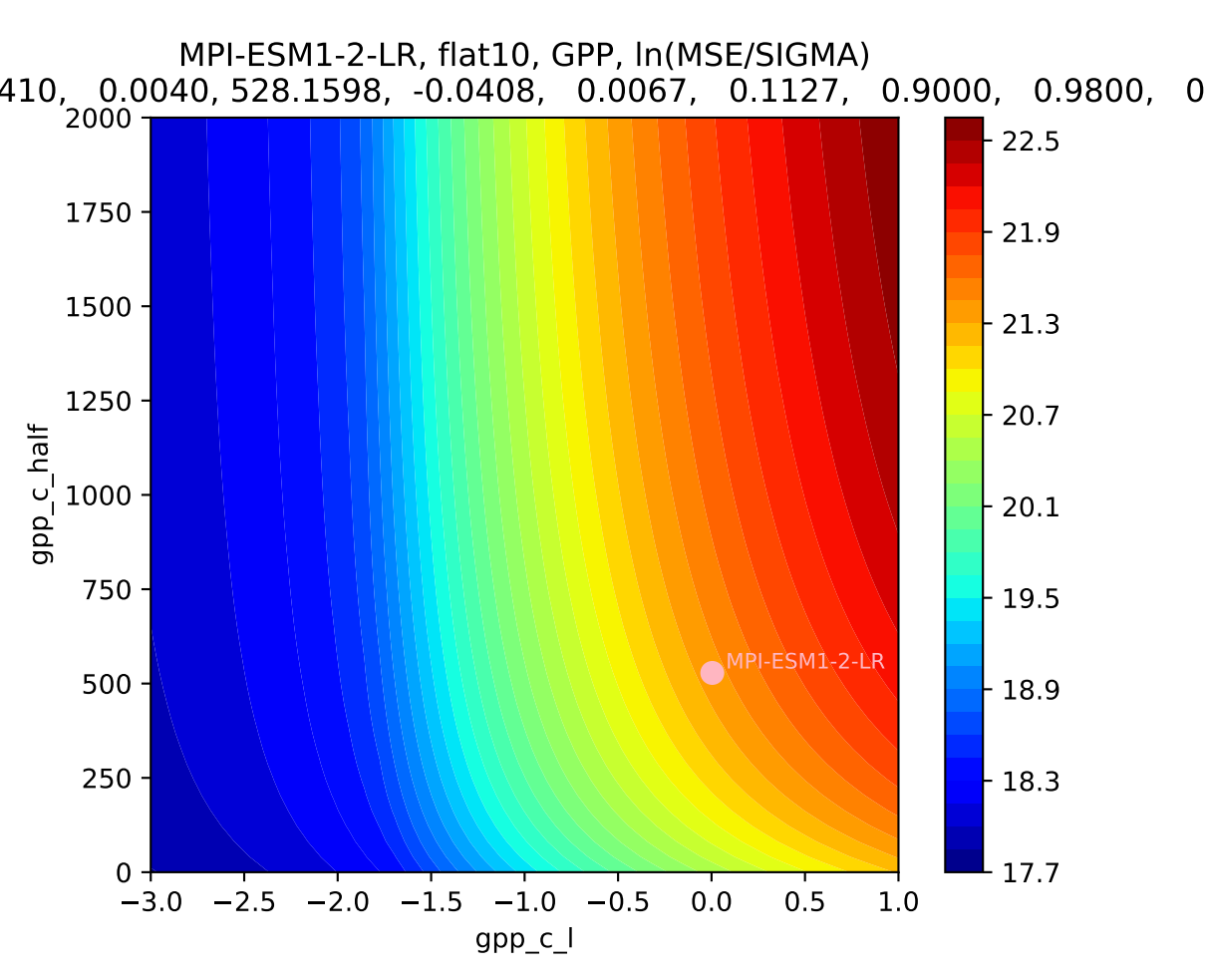

MPI-ESM1-2-LR, flat10, GPP
ESM
Fit
GPP
ΔT

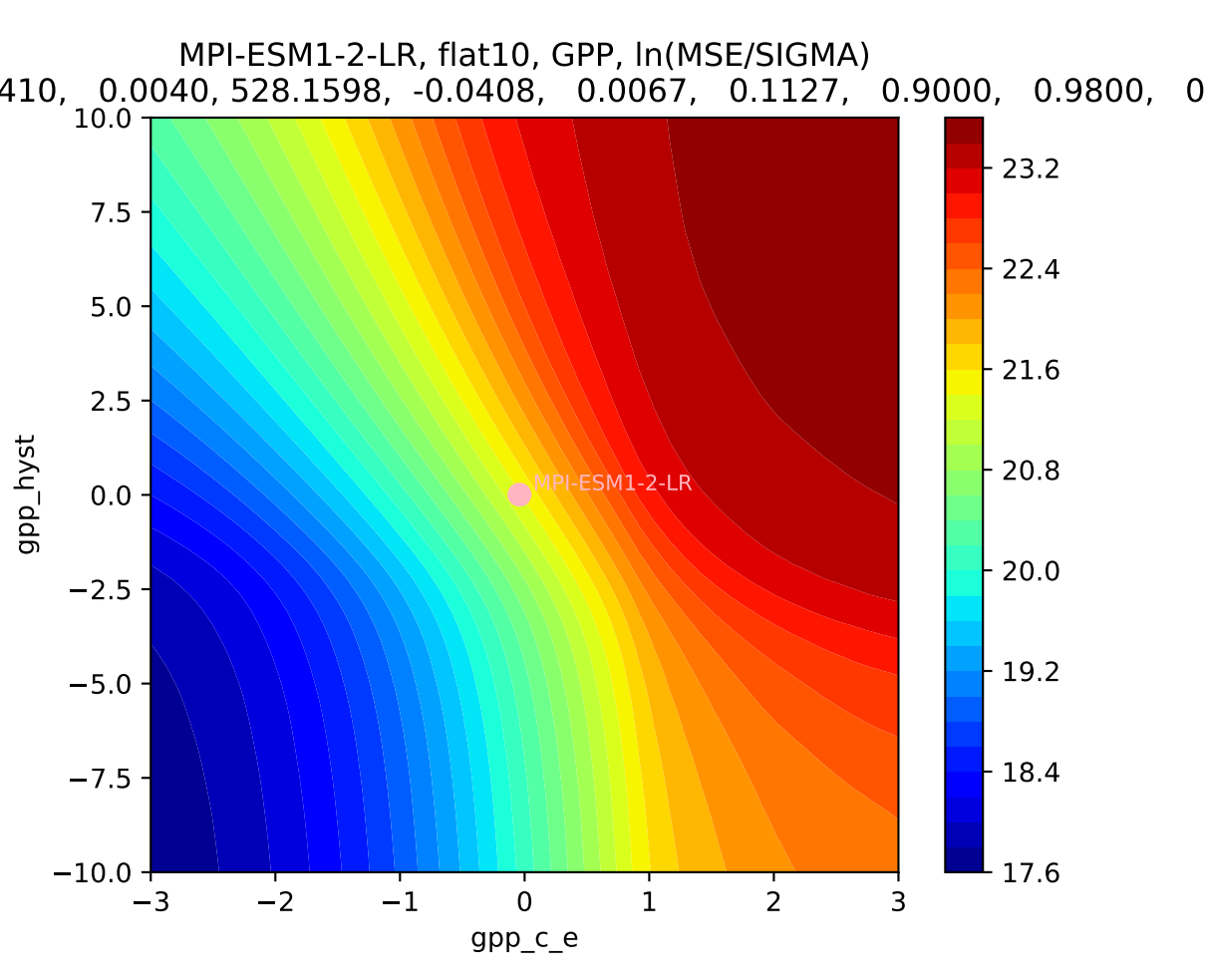

MPI-ESM1-2-LR, flat10, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

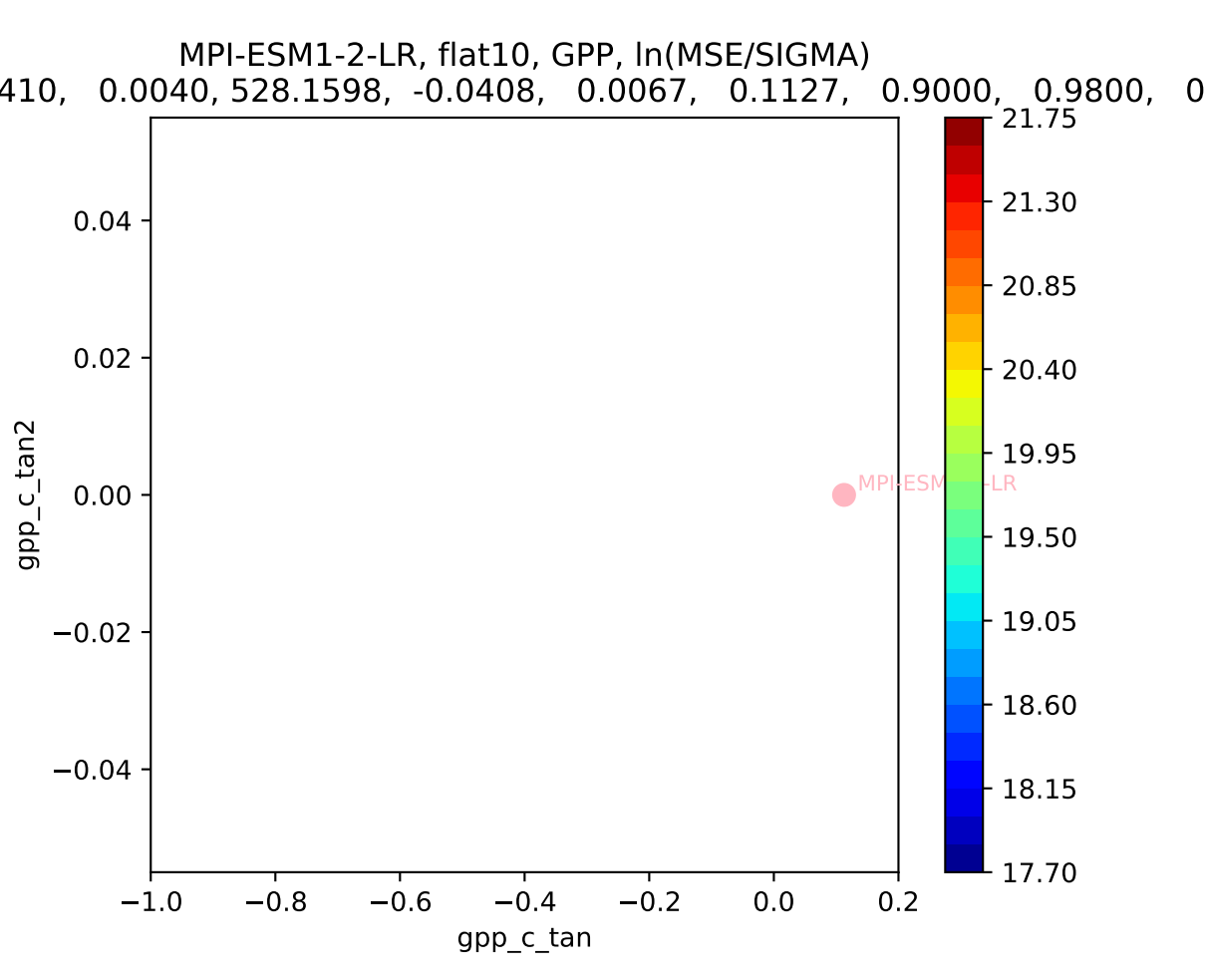

MPI-ESM1-2-LR, flat10, GPP
ESM
Fit
GPP
c_atm

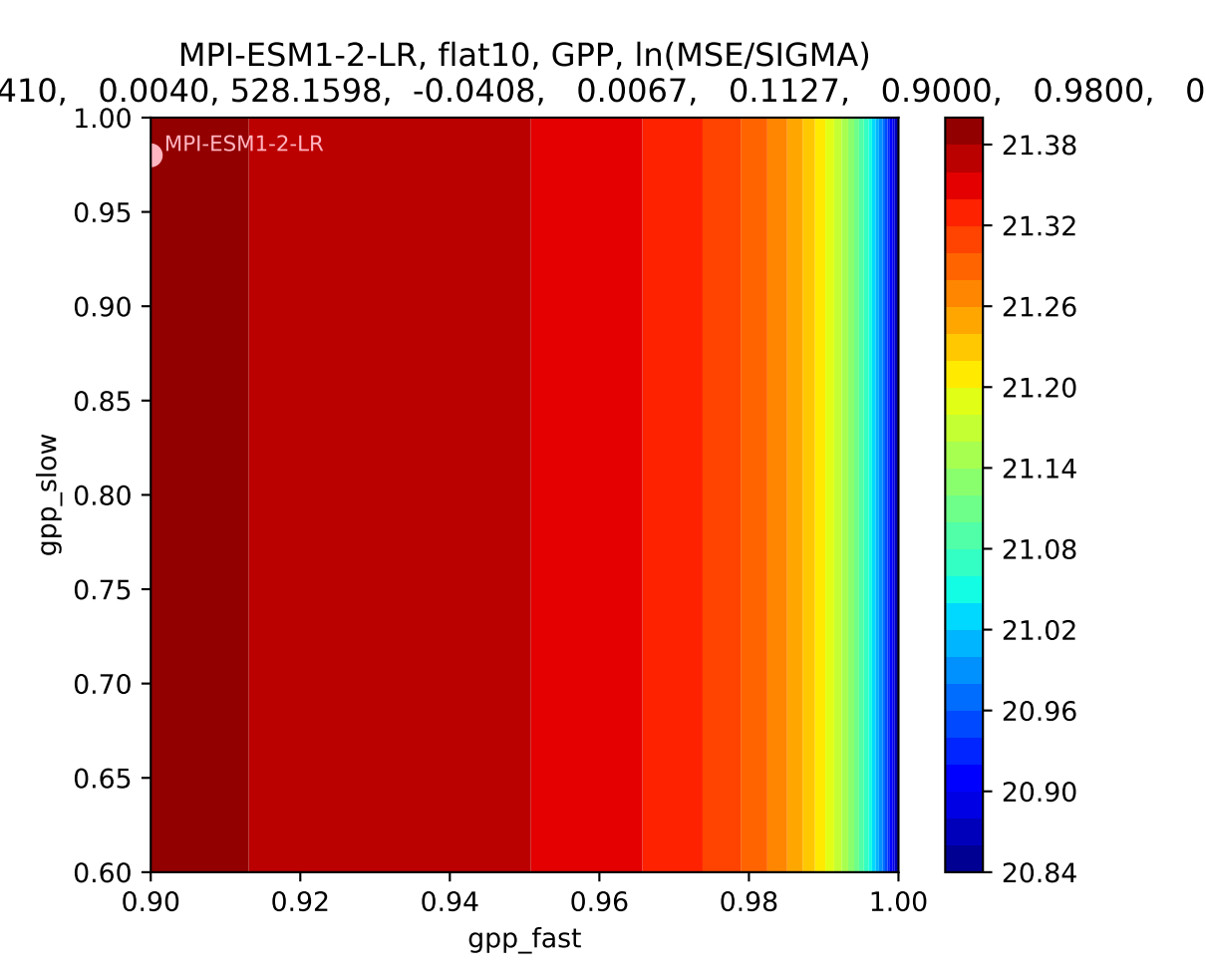

MPI-ESM1-2-LR, flat10, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

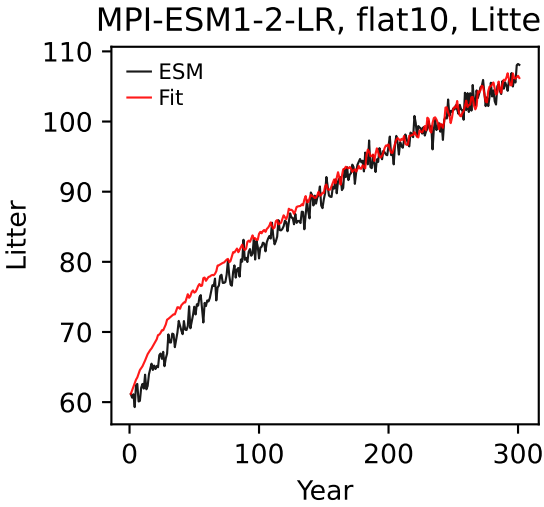

MPI-ESM1-2-LR, flat10, GPP, ln(MSE/SIGMA)
410, 0.0040, 528.1598, -0.0408, 0.0067, 0.1127, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
23.4
22.6
21.8
21.0
20.2
19.4
18.6
17.8
17.0

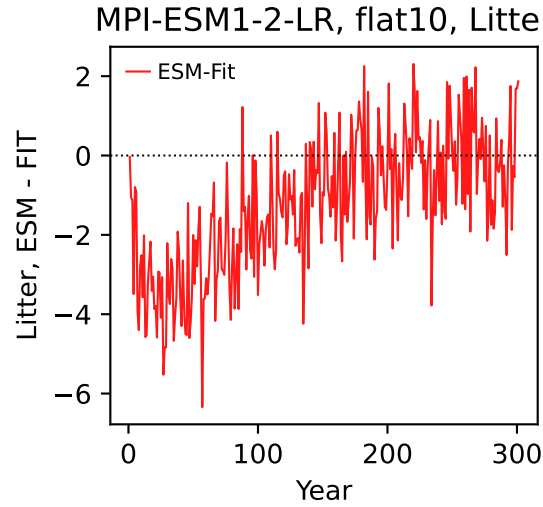

MPI-ESM1-2-LR, flat10, GPP, ln(MSE/SIGMA)
410, 0.0040, 528.1598, -0.0408, 0.0067, 0.1127, 0.9000, 0.9800, 0
gpp_c_half
gpp_c_l
MPI-ESM1-2-LR
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.5
21.9
21.3
20.7
20.1
19.5
18.9
18.3
17.7

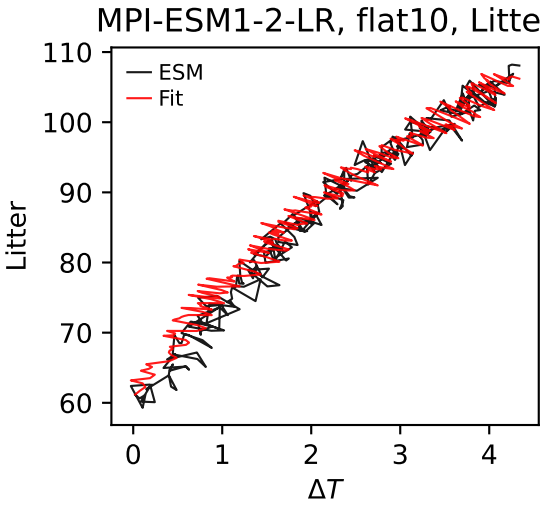

MPI-ESM1-2-LR, flat10, GPP, ln(MSE/SIGMA)
410, 0.0040, 528.1598, -0.0408, 0.0067, 0.1127, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
23.2
22.4
21.6
20.8
20.0
19.2
18.4
17.6

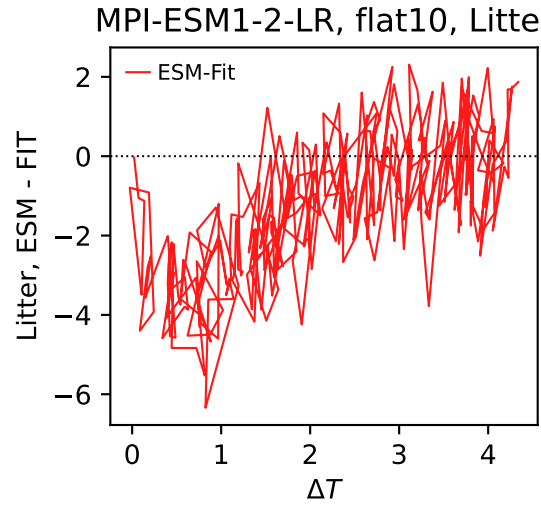

MPI-ESM1-2-LR, flat10, GPP, ln(MSE/SIGMA)
410, 0.0040, 528.1598, -0.0408, 0.0067, 0.1127, 0.9000, 0.9800, 0
gpp_c_tan2
gpp_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
21.75
21.30
20.85
20.40
19.95
19.50
19.05
18.60
18.15
17.70

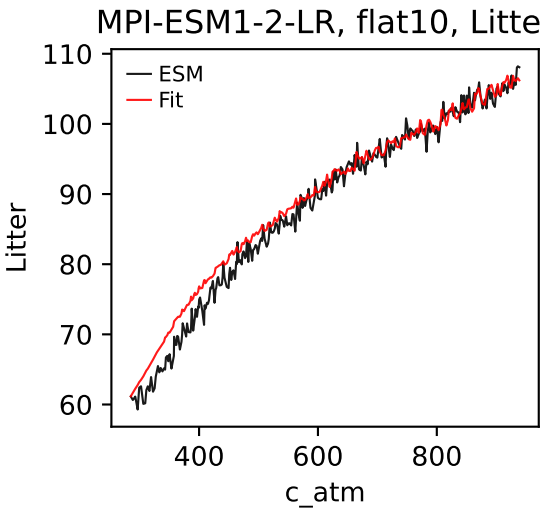

MPI-ESM1-2-LR, flat10, GPP, ln(MSE/SIGMA)
410, 0.0040, 528.1598, -0.0408, 0.0067, 0.1127, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
gpp_slow
gpp_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
21.38
21.32
21.26
21.20
21.14
21.08
21.02
20.96
20.90
20.84

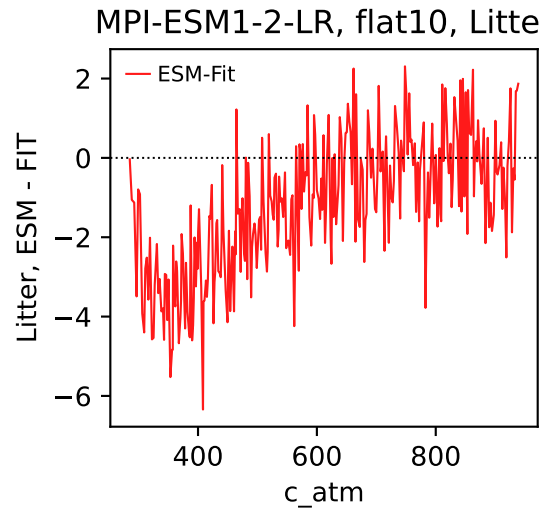

MPI-ESM1-2-LR, flat10, Litter
ESM
Fit
Litter
Year

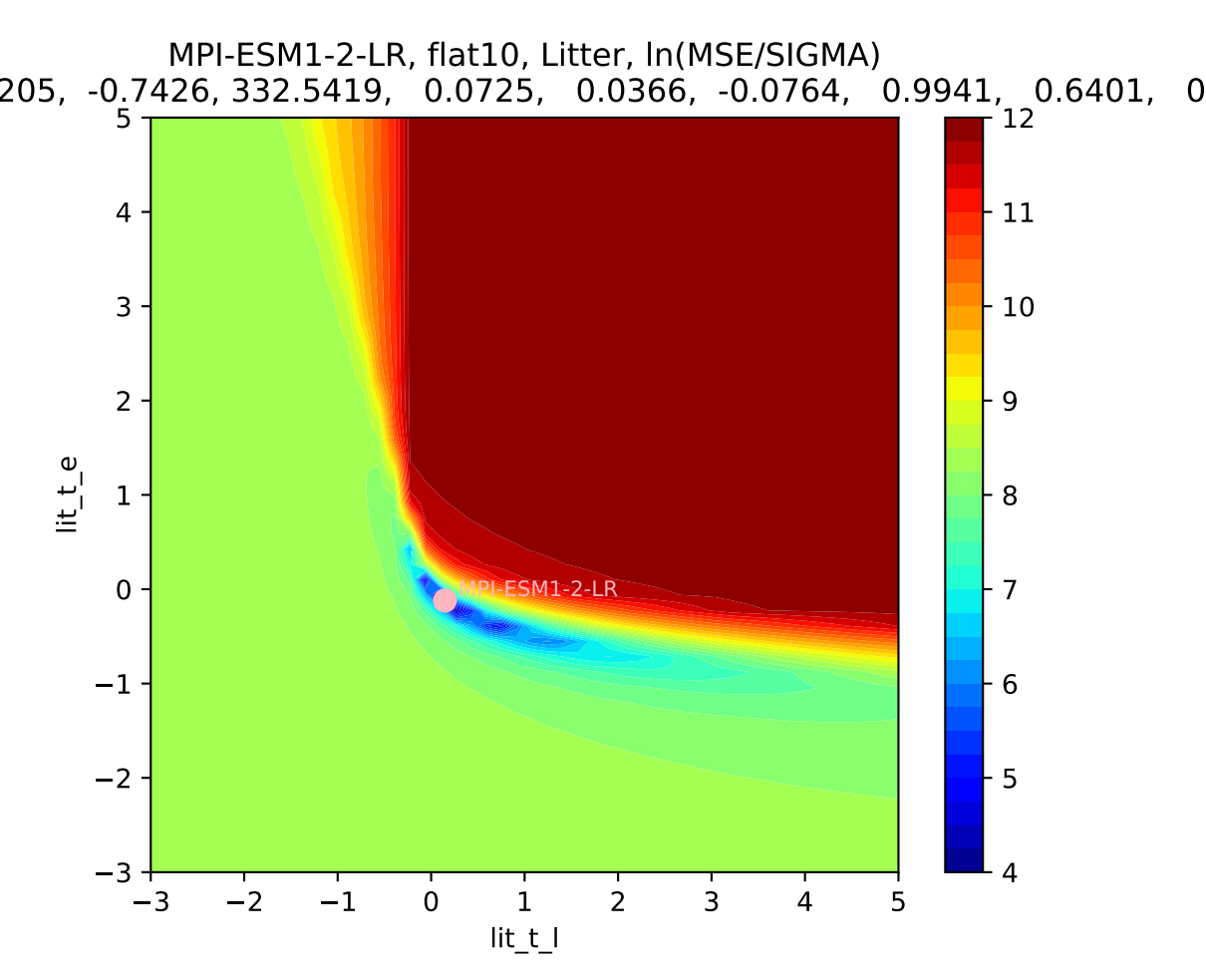

MPI-ESM1-2-LR, flat10, Litter
ESM-Fit
Litter, ESM - FIT
Year

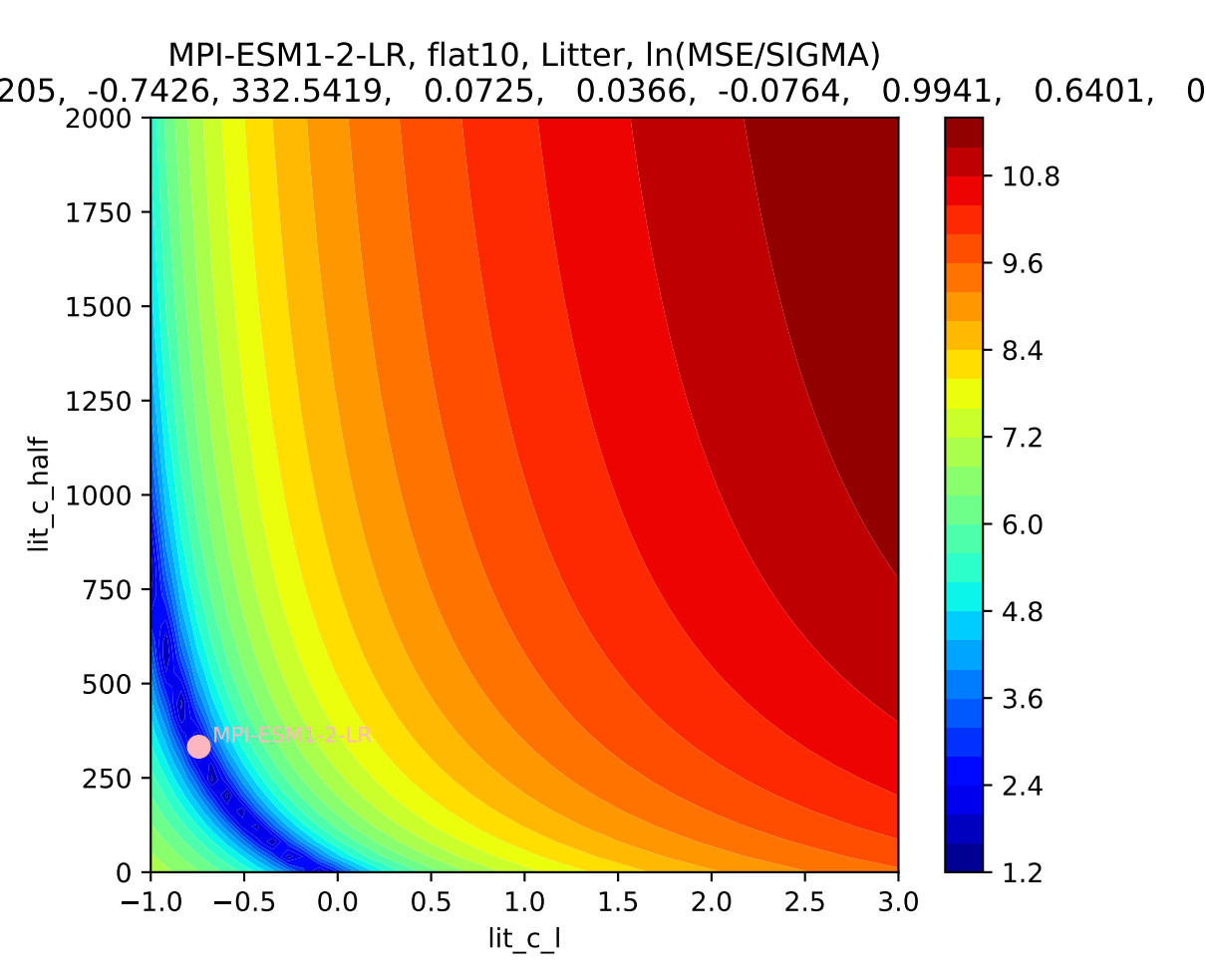

MPI-ESM1-2-LR, flat10, Litter
ESM
Fit
Litter
ΔT

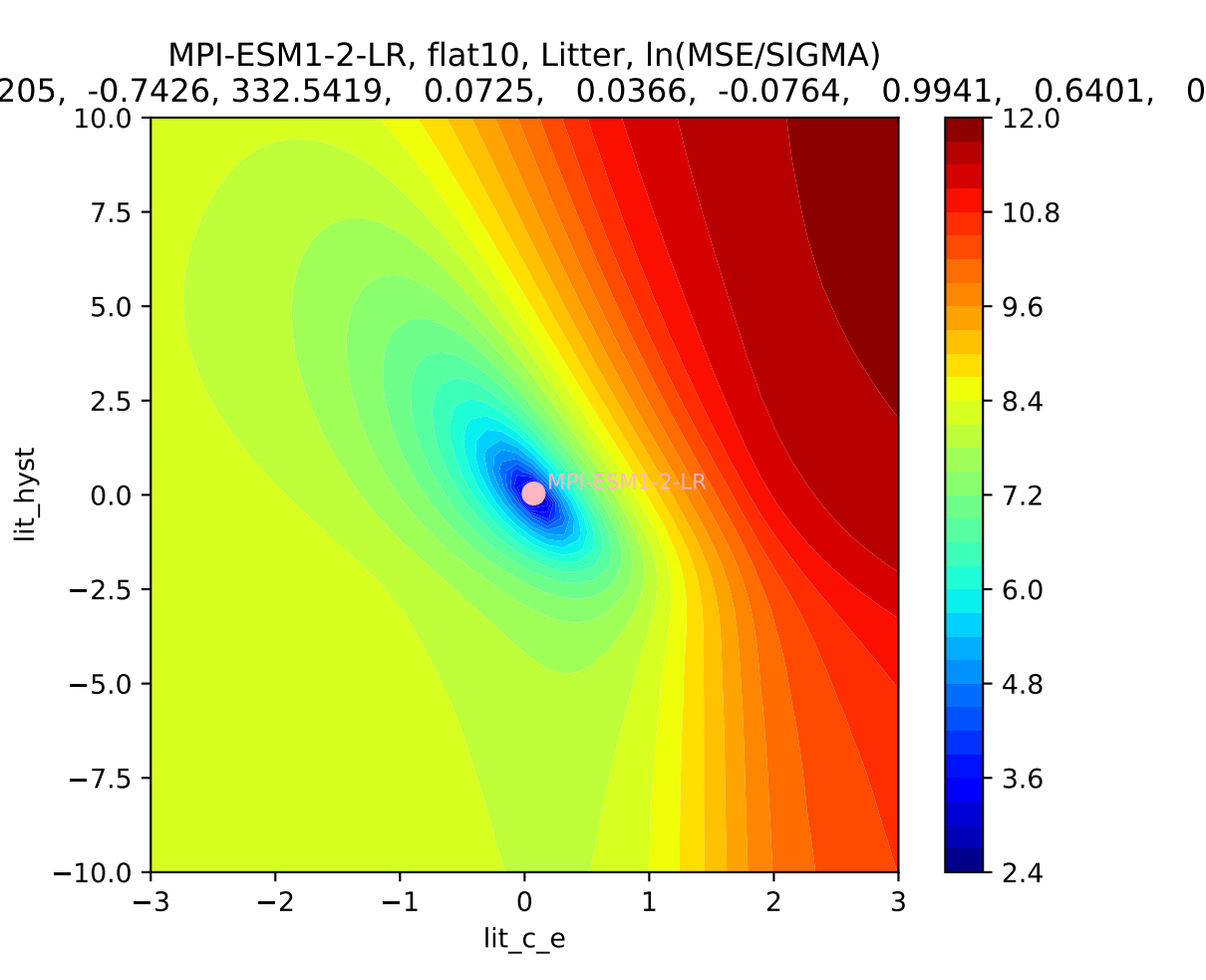

MPI-ESM1-2-LR, flat10, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

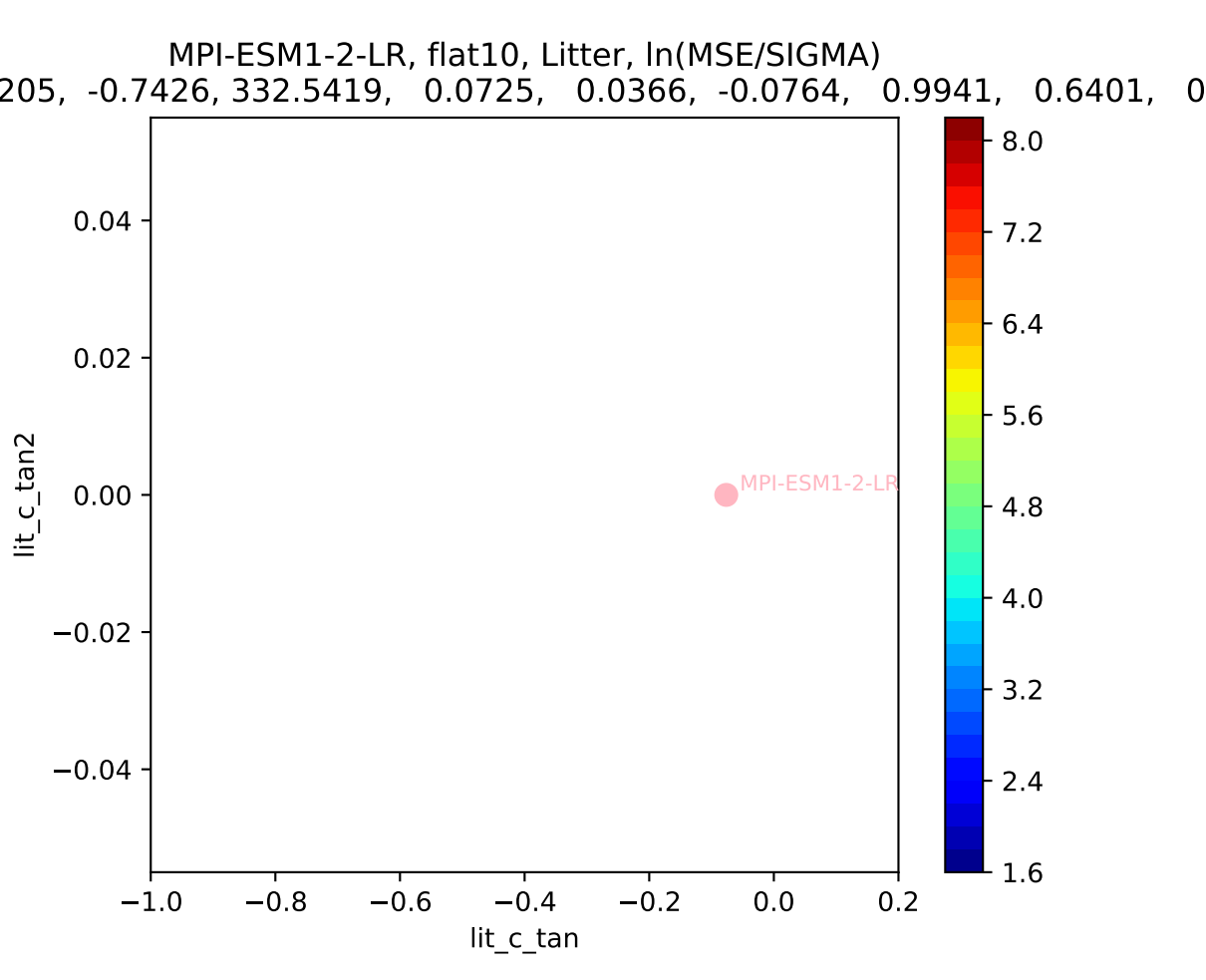

MPI-ESM1-2-LR, flat10, Litter
ESM
Fit
Litter
c_atm

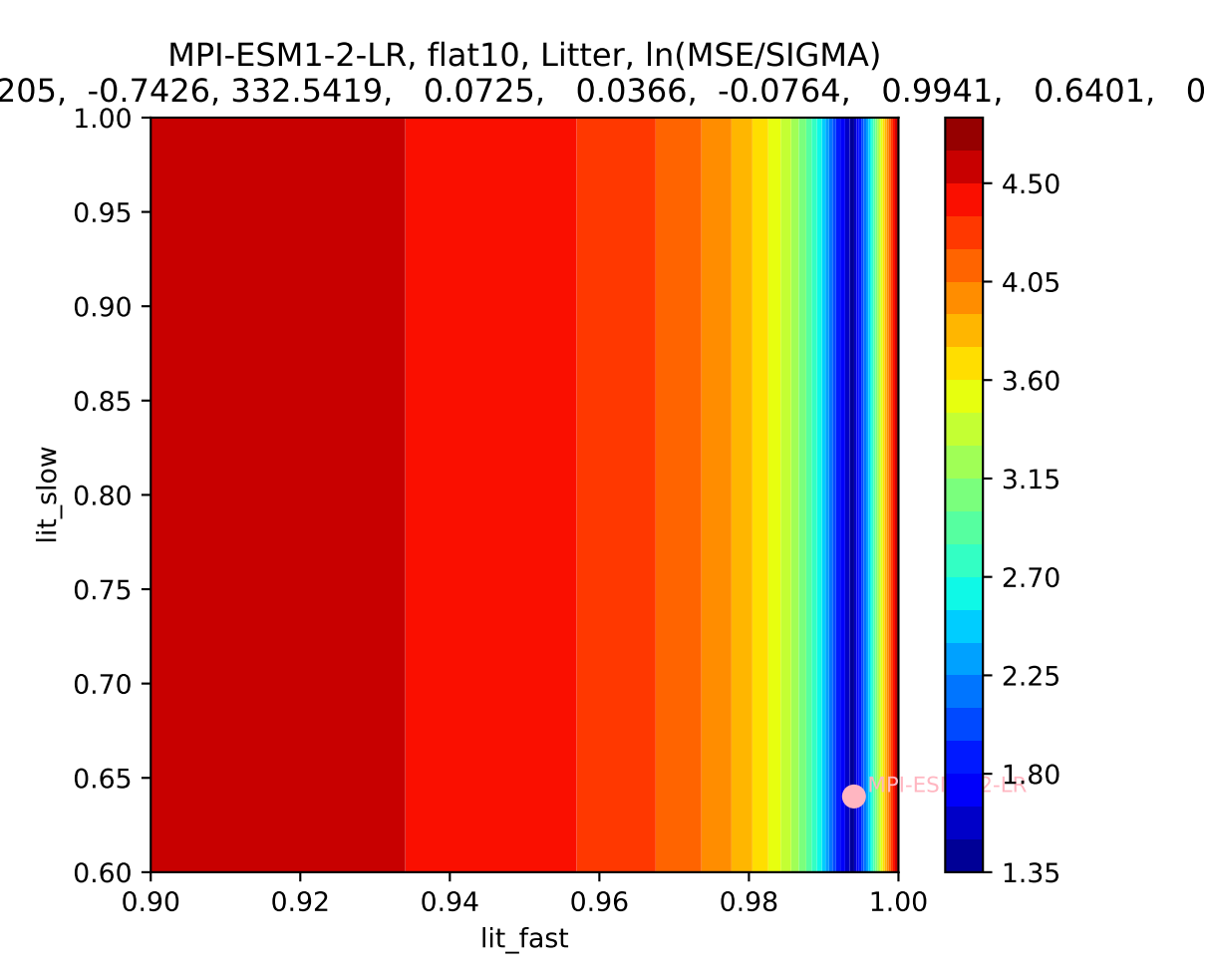

MPI-ESM1-2-LR, flat10, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

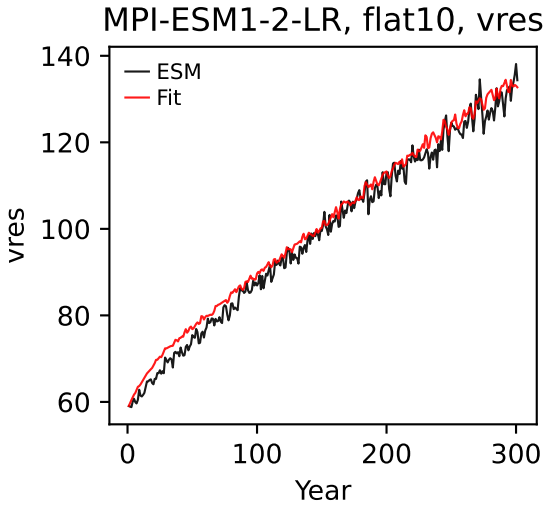

MPI-ESM1-2-LR, flat10, Litter, ln(MSE/SIGMA)
205, -0.7426, 332.5419, 0.0725, 0.0366, -0.0764, 0.9941, 0.6401, 0
MPI-ESM1-2-LR
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
12
11
10
9
8
7
6
5
4

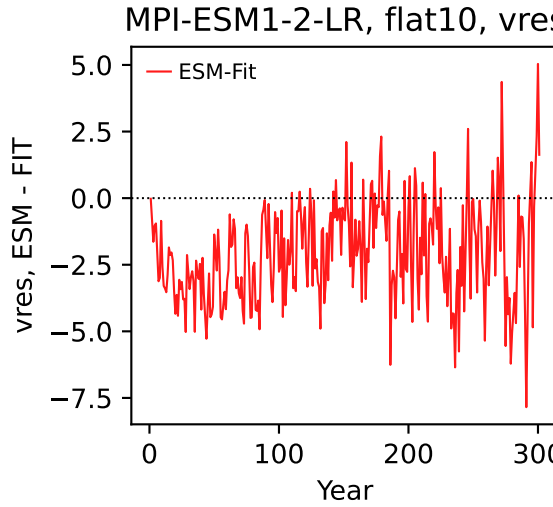

MPI-ESM1-2-LR, flat10, Litter, ln(MSE/SIGMA)
205, -0.7426, 332.5419, 0.0725, 0.0366, -0.0764, 0.9941, 0.6401, 0
lit_c_half
lit_c_l
MPI-ESM1-2-LR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

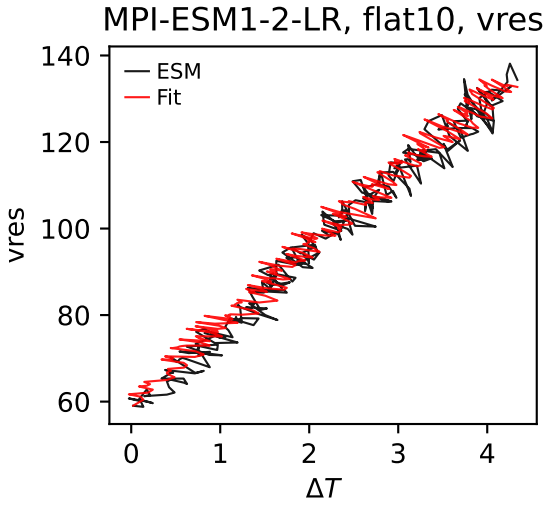

MPI-ESM1-2-LR, flat10, Litter, ln(MSE/SIGMA)
205, -0.7426, 332.5419, 0.0725, 0.0366, -0.0764, 0.9941, 0.6401, 0
MPI-ESM1-2-LR
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
12.0
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4

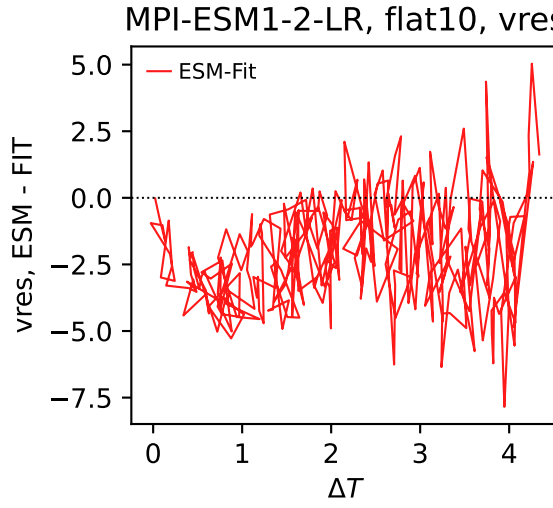

MPI-ESM1-2-LR, flat10, Litter, ln(MSE/SIGMA)
205, -0.7426, 332.5419, 0.0725, 0.0366, -0.0764, 0.9941, 0.6401, 0
MPI-ESM1-2-LR
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
8.0
7.2
6.4
5.6
4.8
4.0
3.2
2.4
1.6

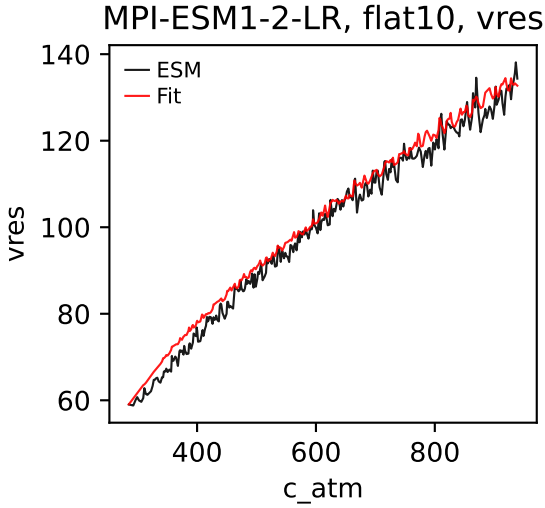

MPI-ESM1-2-LR, flat10, Litter, ln(MSE/SIGMA)
205, -0.7426, 332.5419, 0.0725, 0.0366, -0.0764, 0.9941, 0.6401, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
lit_slow
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
4.50
4.05
3.60
3.15
2.70
2.25
1.80
1.35

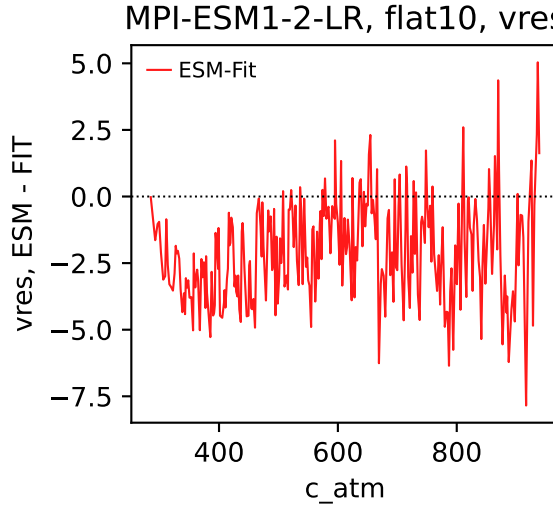

MPI-ESM1-2-LR, flat10, vres
ESM
Fit
vres
Year

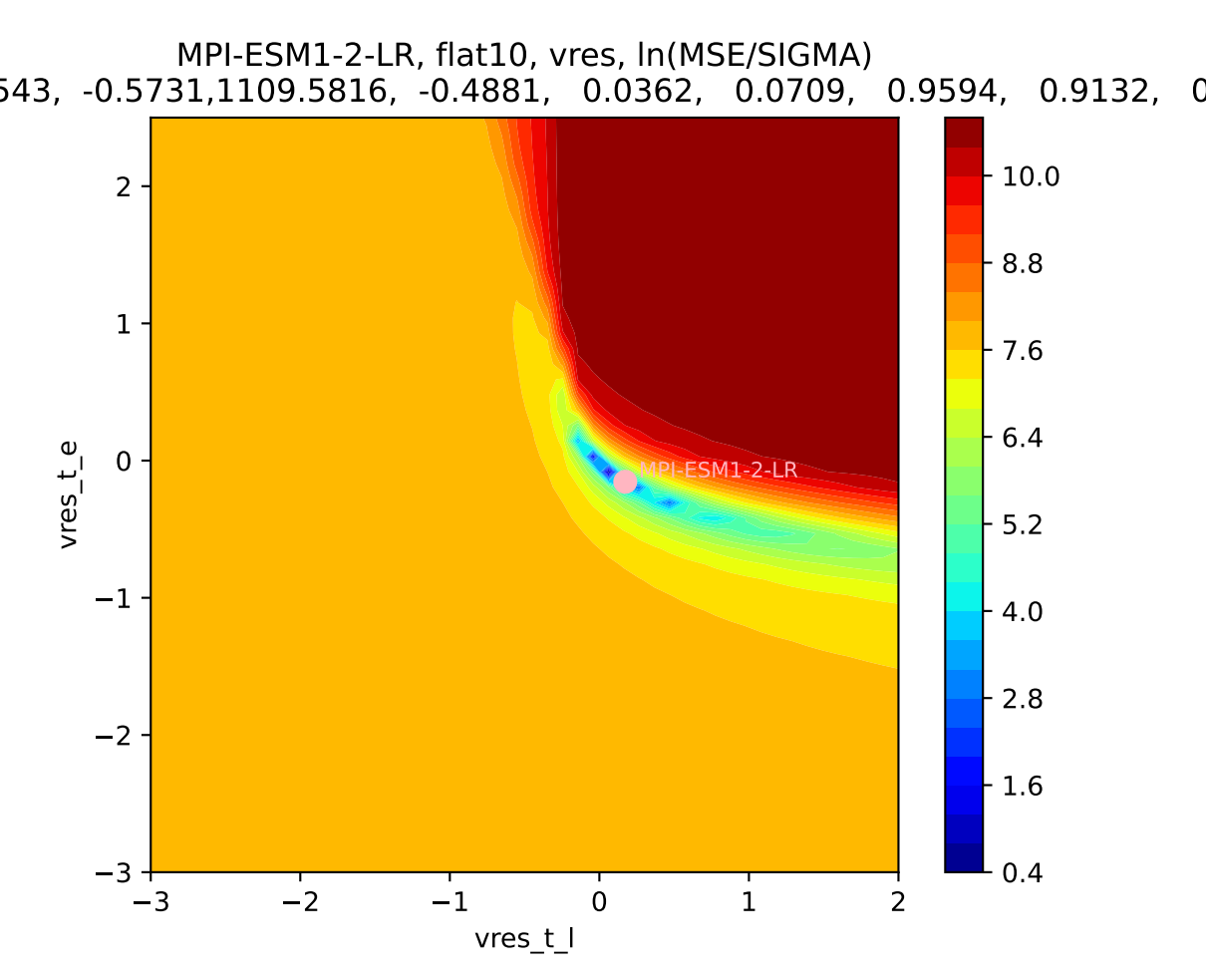

MPI-ESM1-2-LR, flat10, vres
ESM-Fit
vres, ESM - FIT
Year

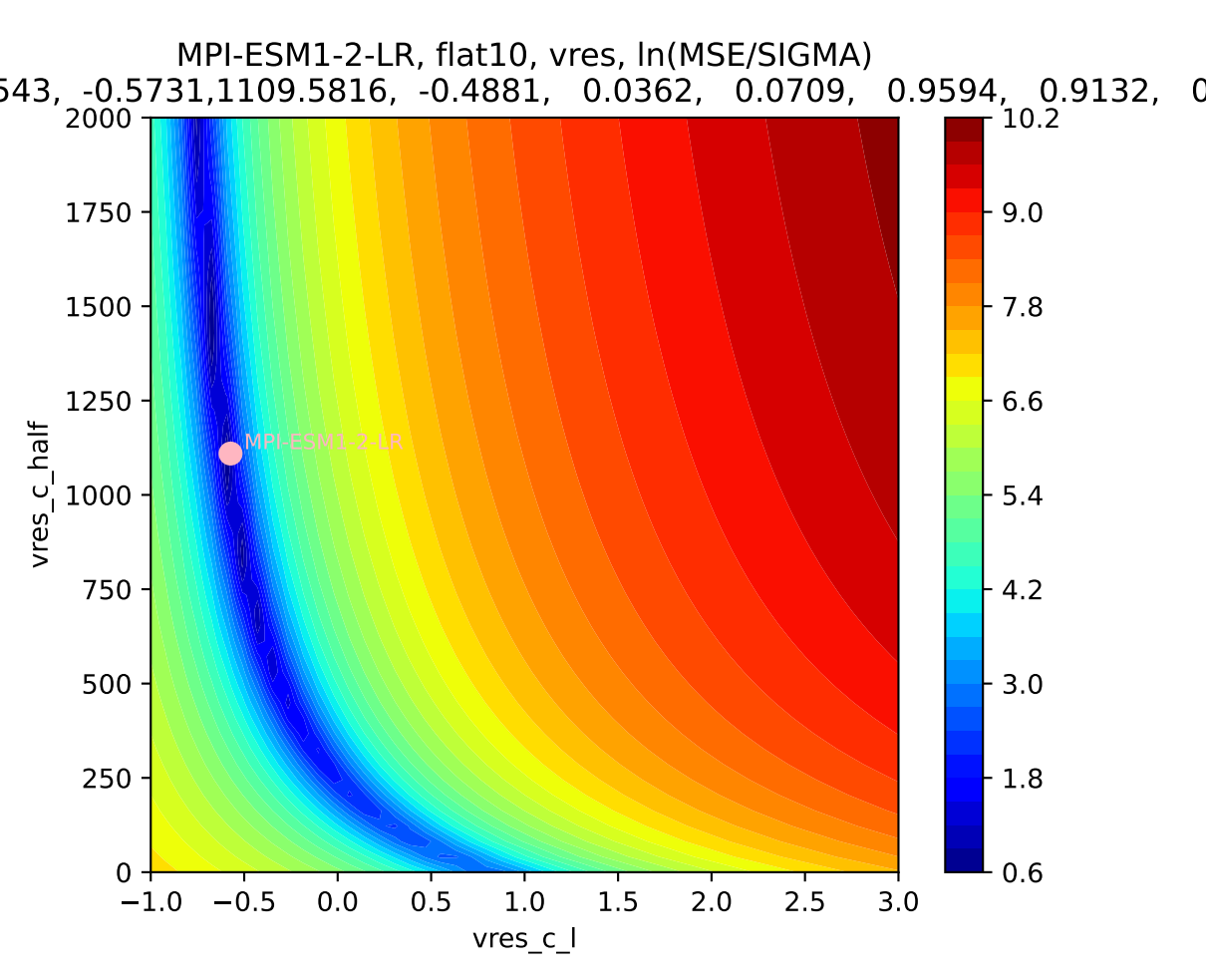

MPI-ESM1-2-LR, flat10, vres
ESM
Fit
vres
ΔT

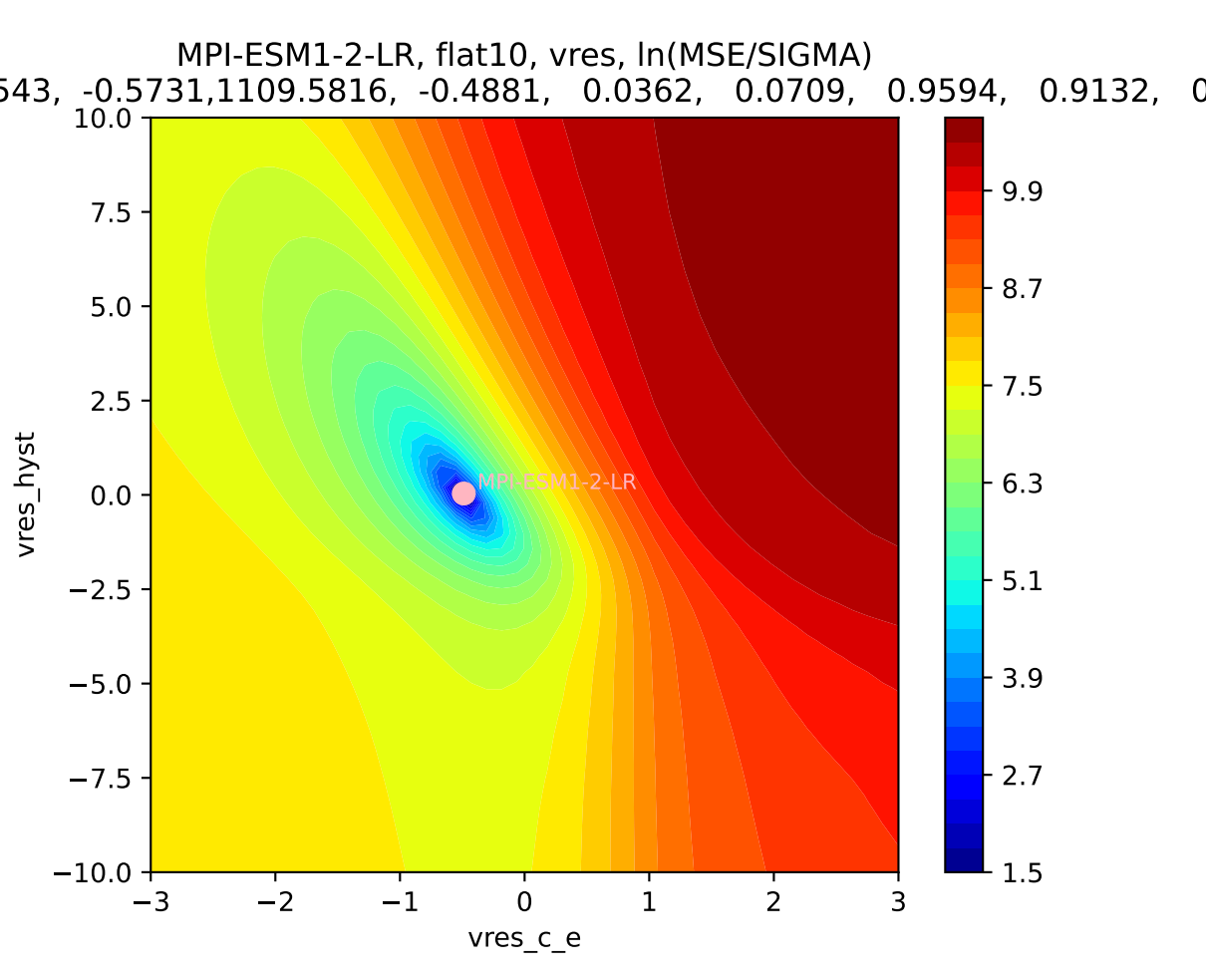

MPI-ESM1-2-LR, flat10, vres
ESM-Fit
vres, ESM - FIT
ΔT

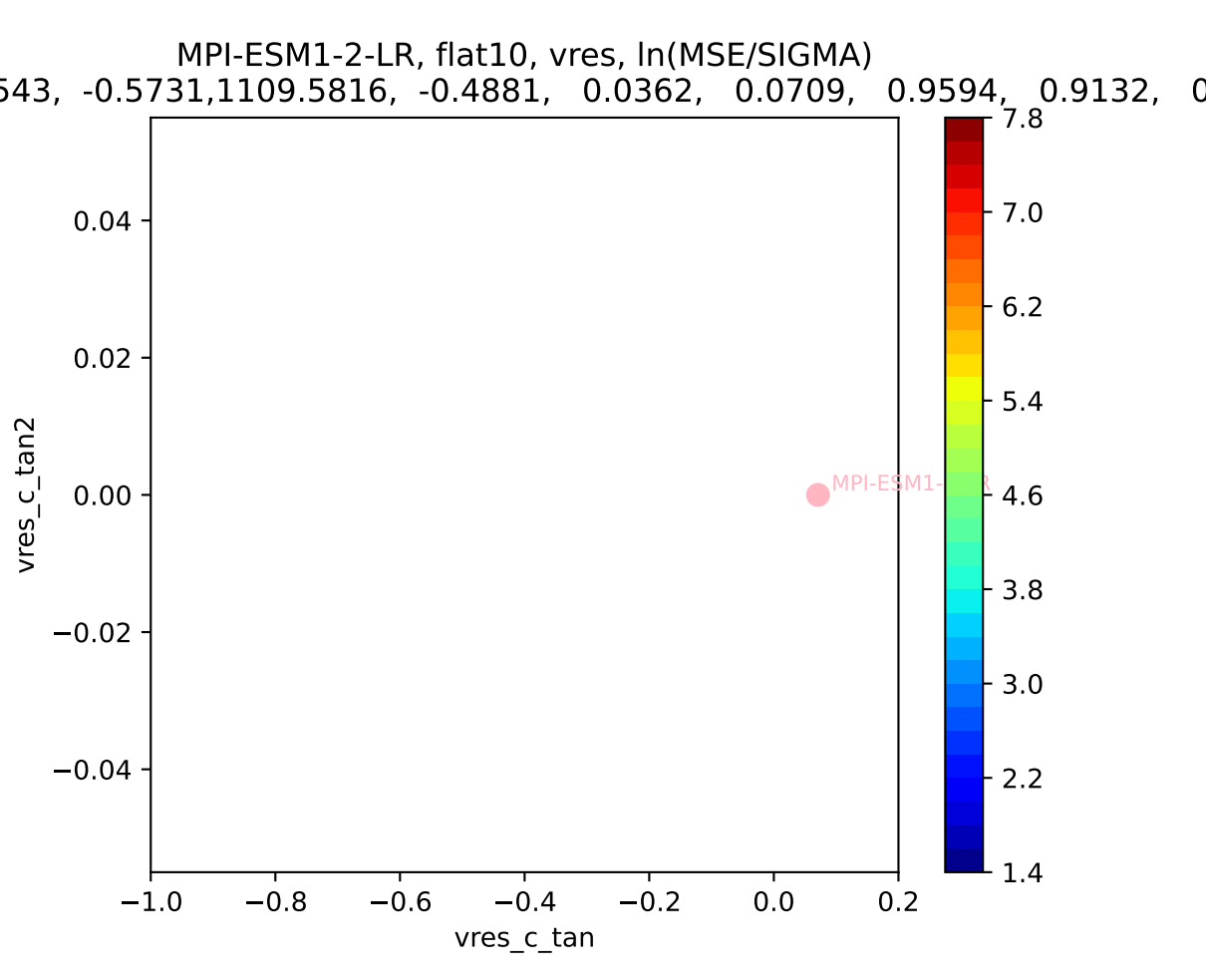

MPI-ESM1-2-LR, flat10, vres
ESM
Fit
vres
c_atm

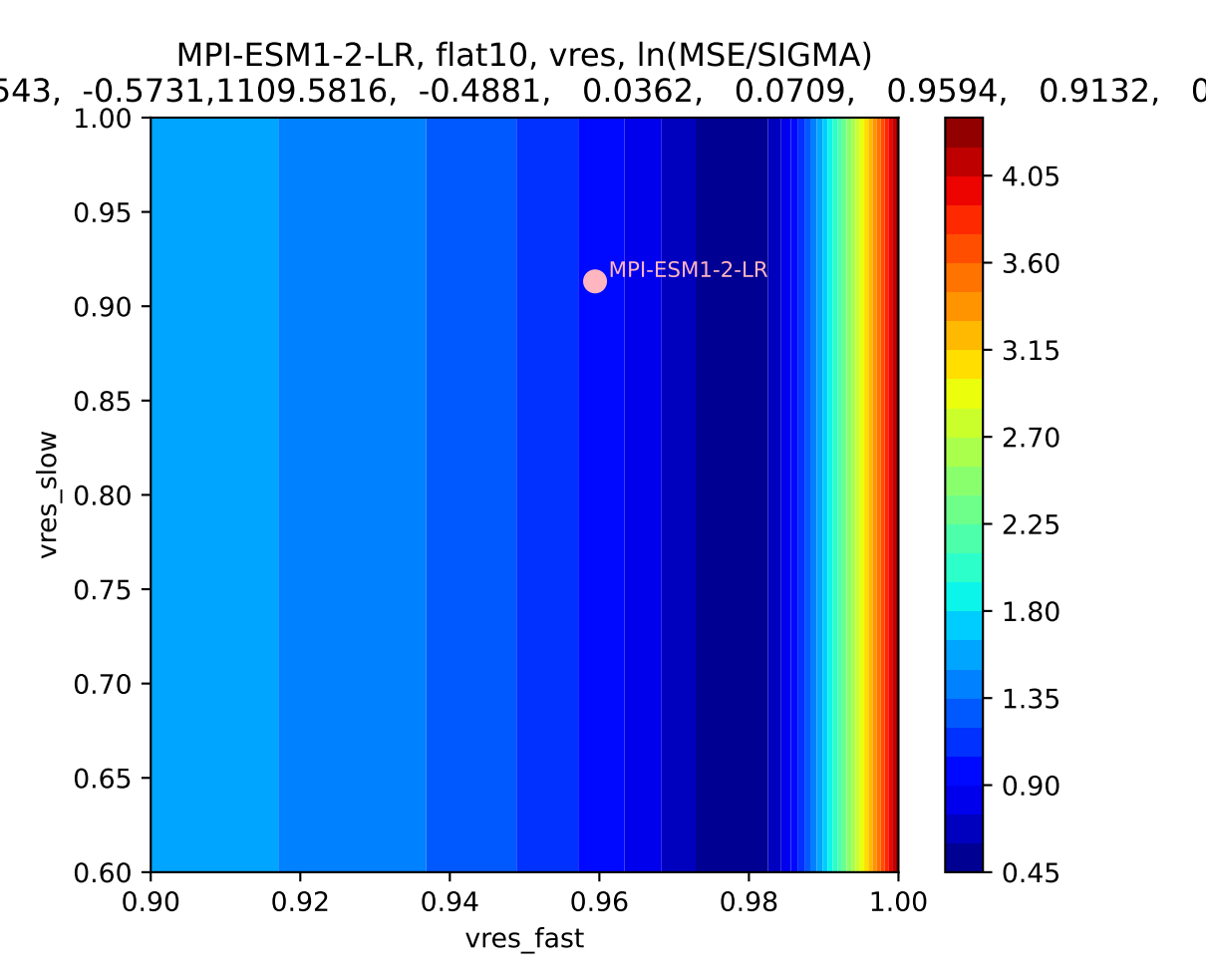

MPI-ESM1-2-LR, flat10, vres
ESM-Fit
vres, ESM - FIT
c_atm

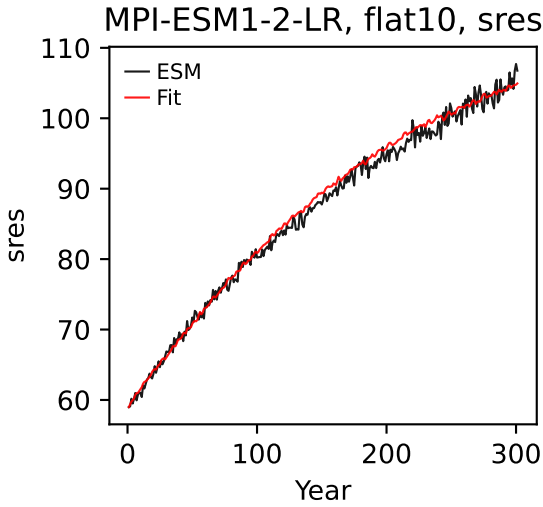

MPI-ESM1-2-LR, flat10, vres, ln(MSE/SIGMA)
543, -0.5731,1109.5816, -0.4881, 0.0362, 0.0709, 0.9594, 0.9132, 0
MPI-ESM1-2-LR
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
10.0
8.8
7.6
6.4
5.2
4.0
2.8
1.6
0.4

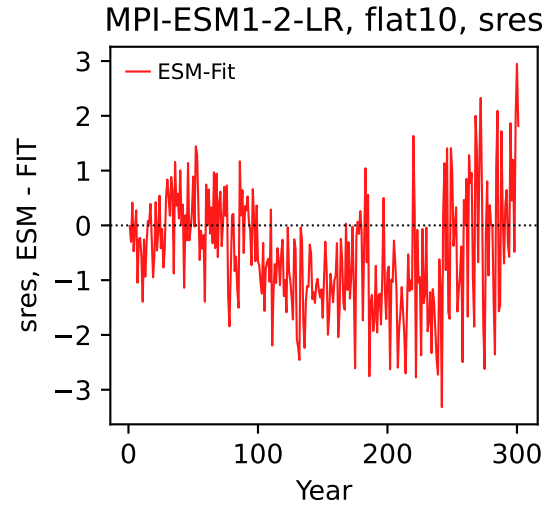

MPI-ESM1-2-LR, flat10, vres, ln(MSE/SIGMA)
543, -0.5731,1109.5816, -0.4881, 0.0362, 0.0709, 0.9594, 0.9132, 0
MPI-ESM1-2-LR
vres_c_half
vres_c_l
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6

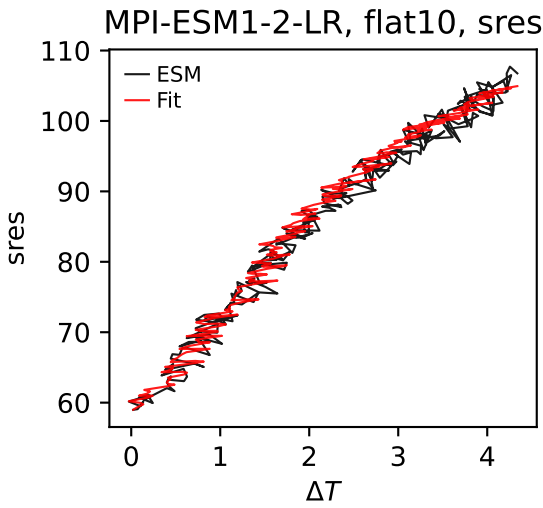

MPI-ESM1-2-LR, flat10, vres, ln(MSE/SIGMA)
543, -0.5731,1109.5816, -0.4881, 0.0362, 0.0709, 0.9594, 0.9132, 0
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
vres_hyst
MPI-ESM1-2-LR
−3
−2
−1
0
1
2
3
vres_c_e
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5

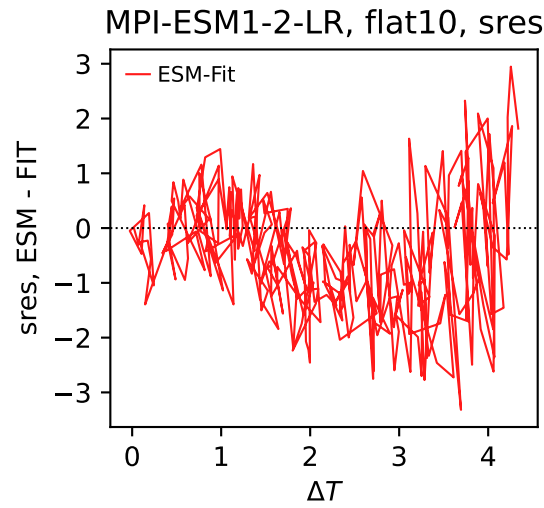

MPI-ESM1-2-LR, flat10, vres, ln(MSE/SIGMA)
543, -0.5731,1109.5816, -0.4881, 0.0362, 0.0709, 0.9594, 0.9132, 0
0.04
0.02
0.00
−0.02
−0.04
vres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
vres_c_tan
7.8
7.0
6.2
5.4
4.6
3.8
3.0
2.2
1.4

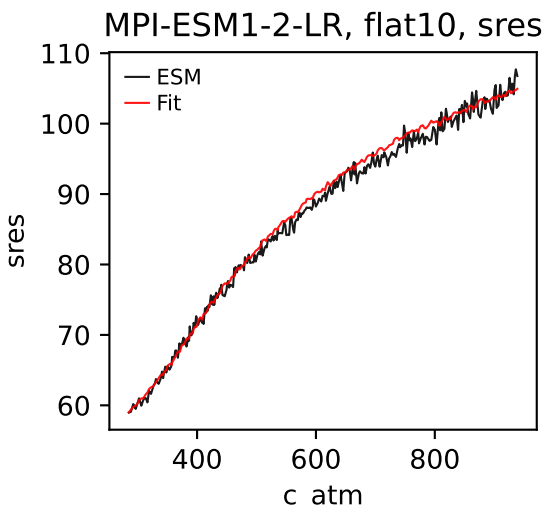

MPI-ESM1-2-LR, flat10, vres, ln(MSE/SIGMA)
543, -0.5731,1109.5816, -0.4881, 0.0362, 0.0709, 0.9594, 0.9132, 0
MPI-ESM1-2-LR
vres_slow
vres_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
4.05
3.60
3.15
2.70
2.25
1.80
1.35
0.90
0.45

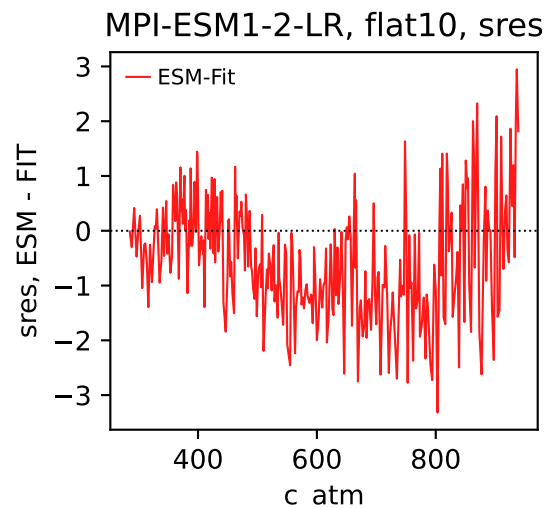

MPI-ESM1-2-LR, flat10, sres
ESM
Fit
sres
Year

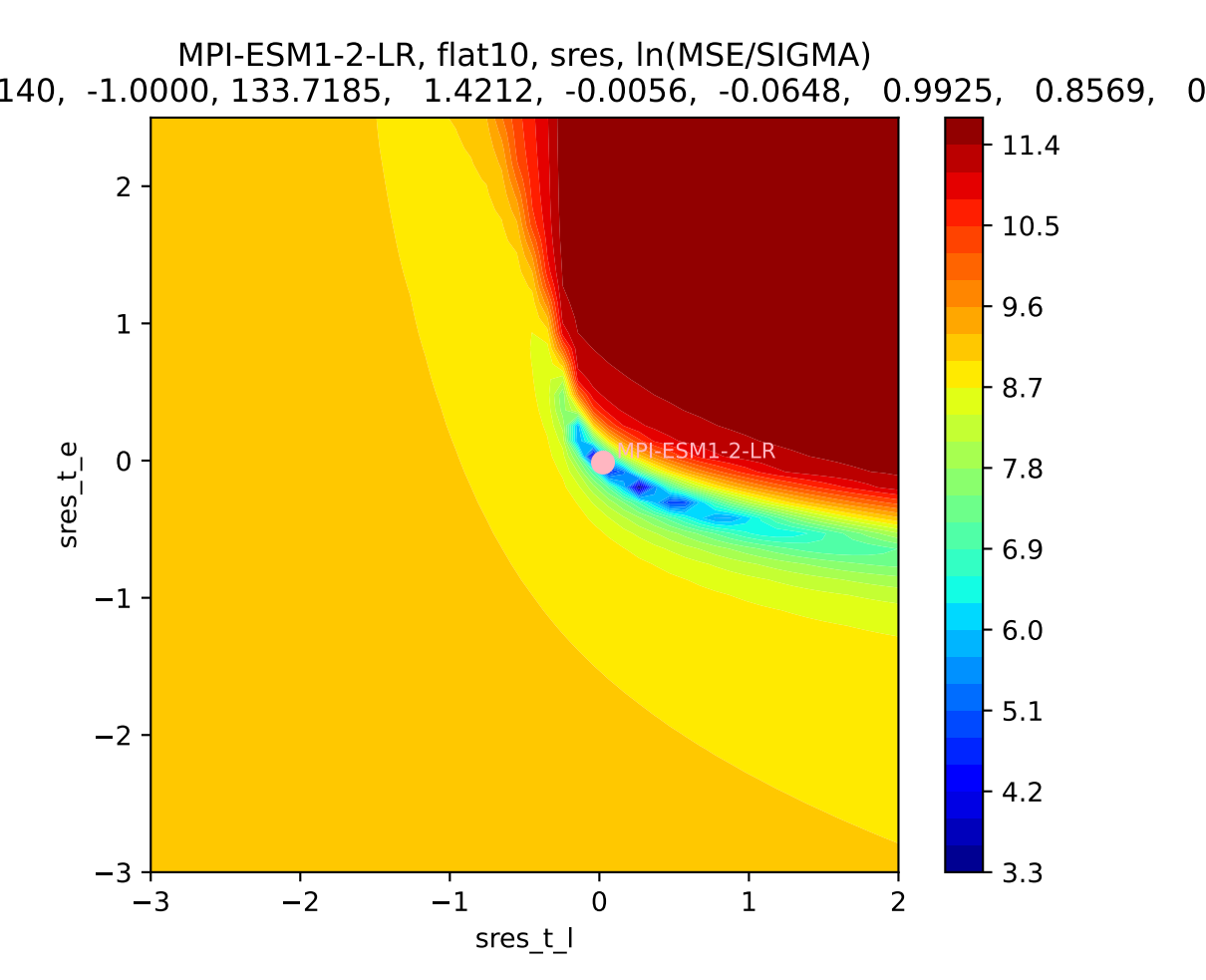

MPI-ESM1-2-LR, flat10, sres
ESM-Fit
sres, ESM - FIT
Year

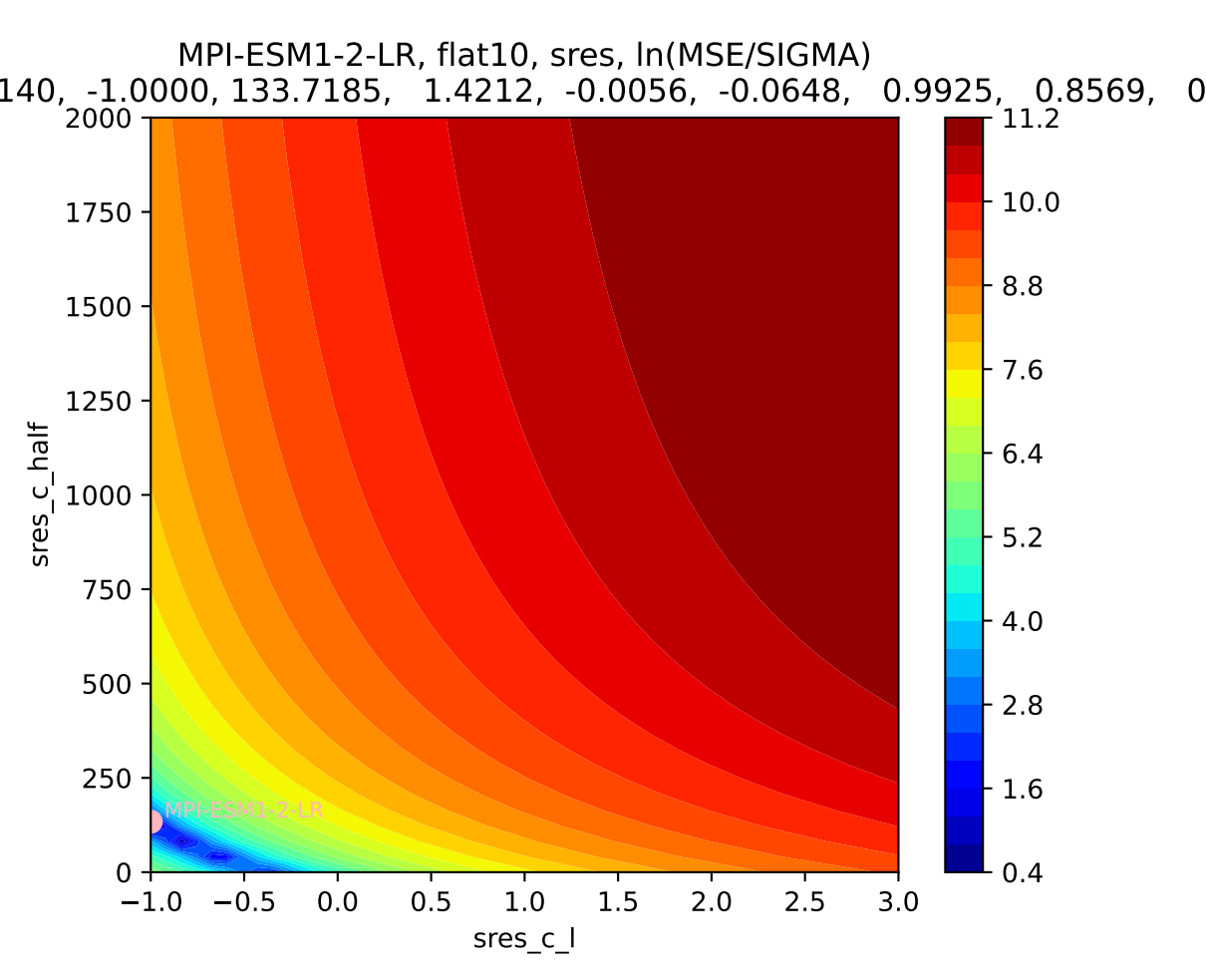

MPI-ESM1-2-LR, flat10, sres
ESM
Fit
sres
ΔT

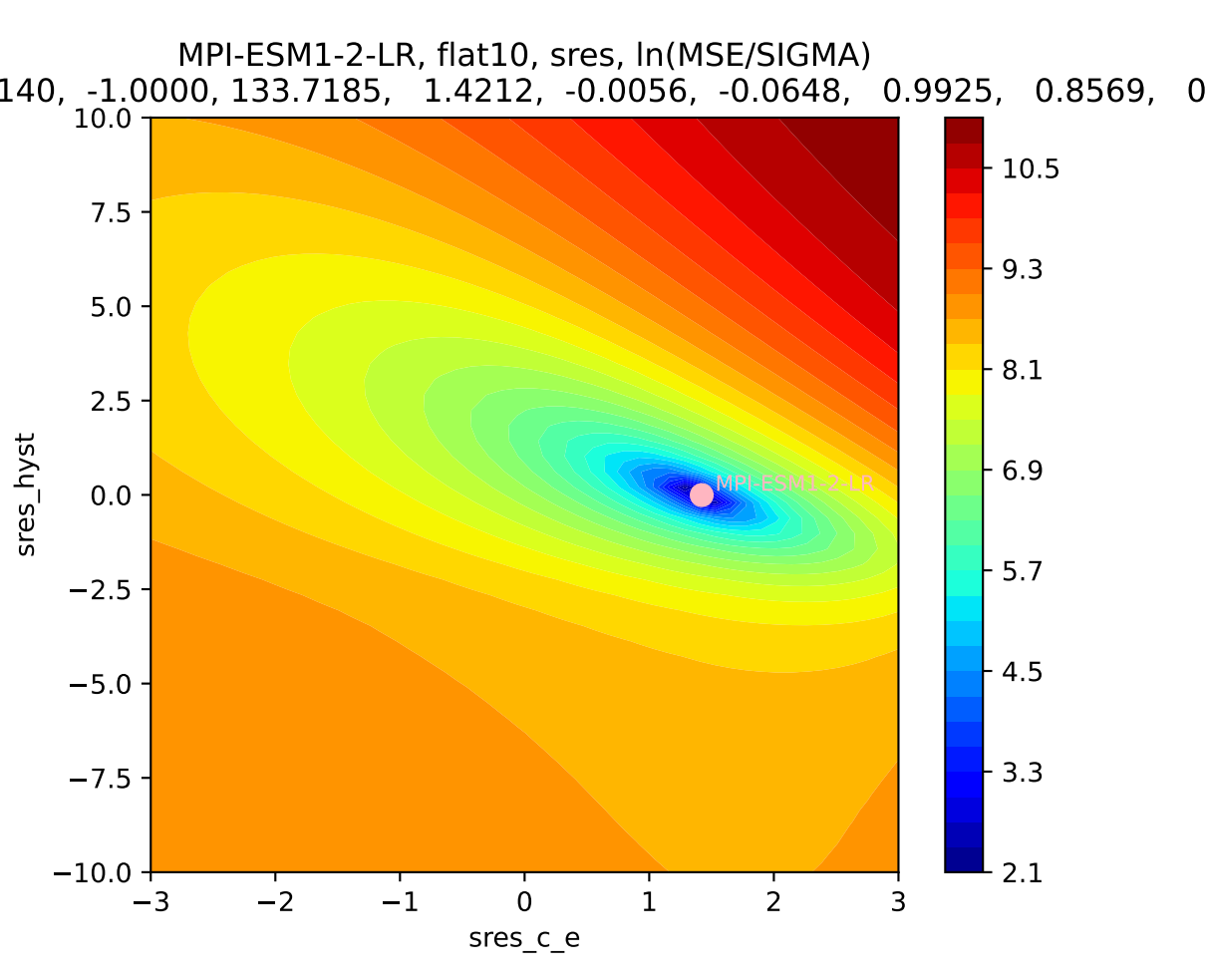

MPI-ESM1-2-LR, flat10, sres
ESM-Fit
sres, ESM - FIT
ΔT

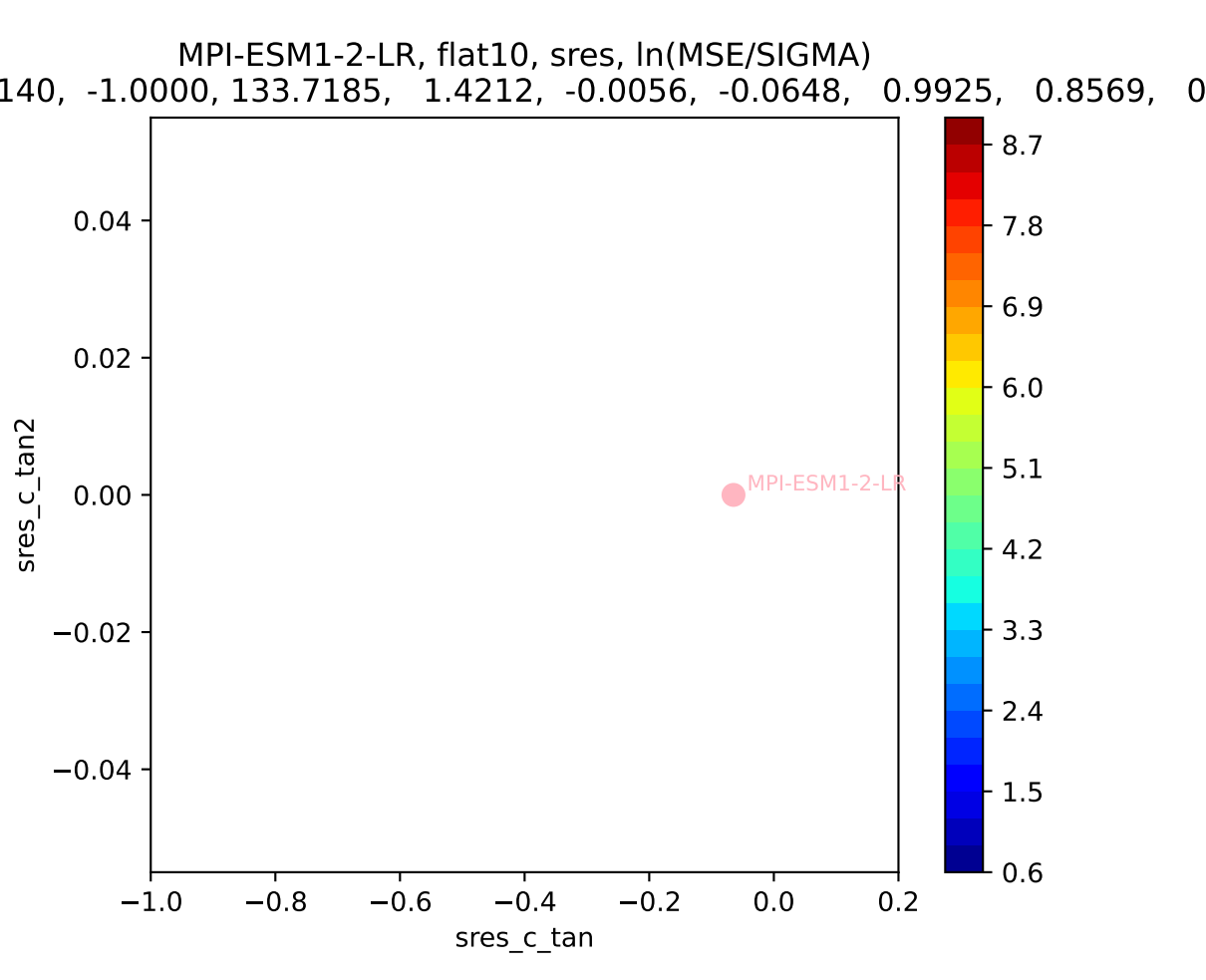

MPI-ESM1-2-LR, flat10, sres
ESM
Fit
sres
c_atm

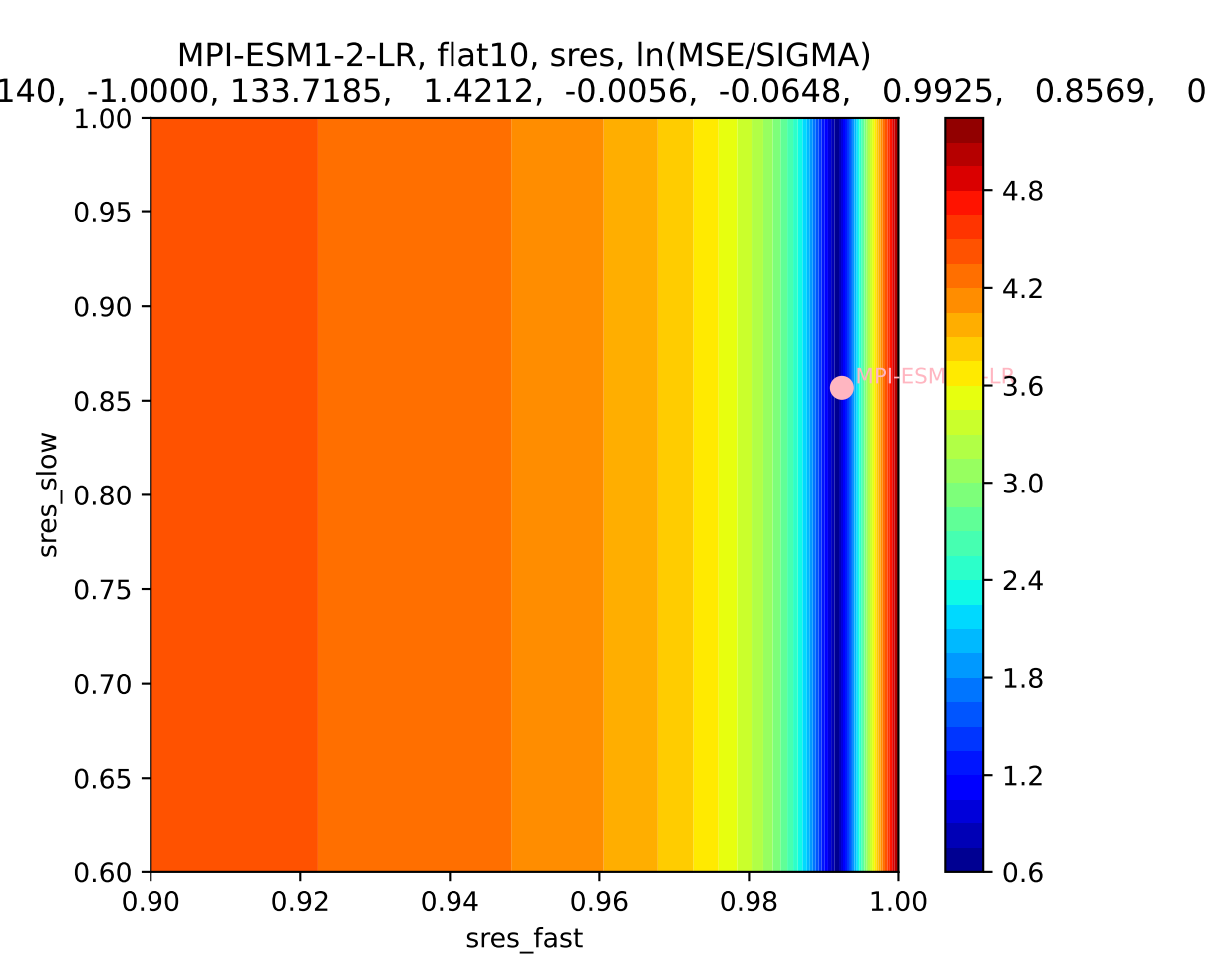

MPI-ESM1-2-LR, flat10, sres
ESM-Fit
sres, ESM - FIT
c_atm

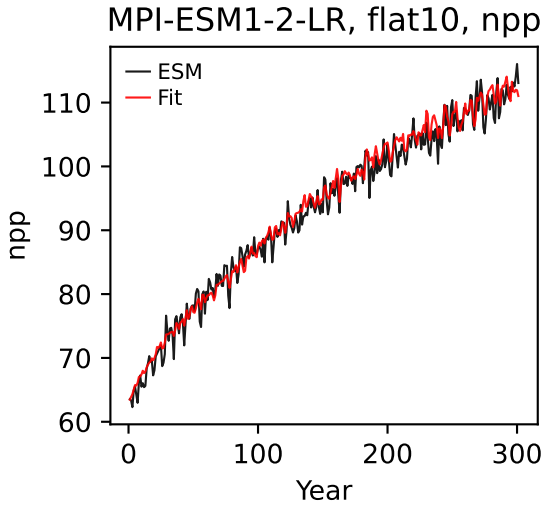

MPI-ESM1-2-LR, flat10, sres, ln(MSE/SIGMA)
140, -1.0000, 133.7185, 1.4212, -0.0056, -0.0648, 0.9925, 0.8569, 0
MPI-ESM1-2-LR
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
11.4
10.5
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3

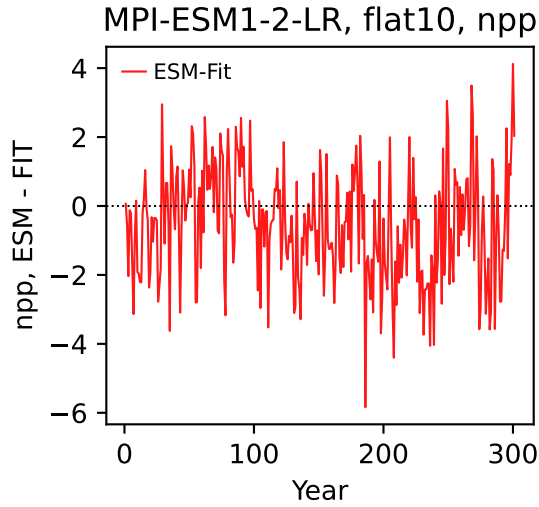

MPI-ESM1-2-LR, flat10, sres, ln(MSE/SIGMA)
140, -1.0000, 133.7185, 1.4212, -0.0056, -0.0648, 0.9925, 0.8569, 0
sres_c_half
sres_c_l
MPI-ESM1-2-LR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
11.2
10.0
8.8
7.6
6.4
5.2
4.0
2.8
1.6
0.4

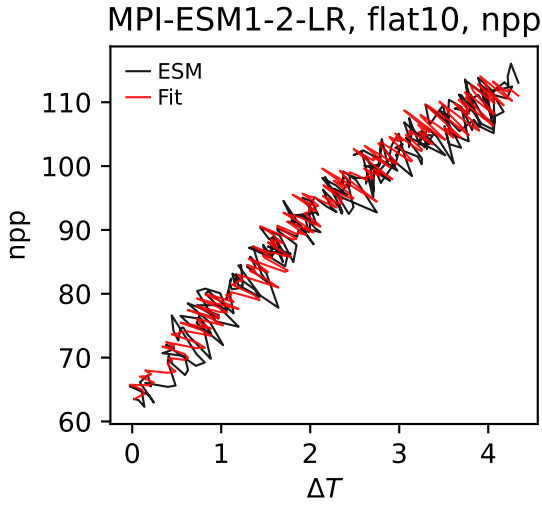

MPI-ESM1-2-LR, flat10, sres, ln(MSE/SIGMA)
140, -1.0000, 133.7185, 1.4212, -0.0056, -0.0648, 0.9925, 0.8569, 0
MPI-ESM1-2-LR
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.5
9.3
8.1
6.9
5.7
4.5
3.3
2.1

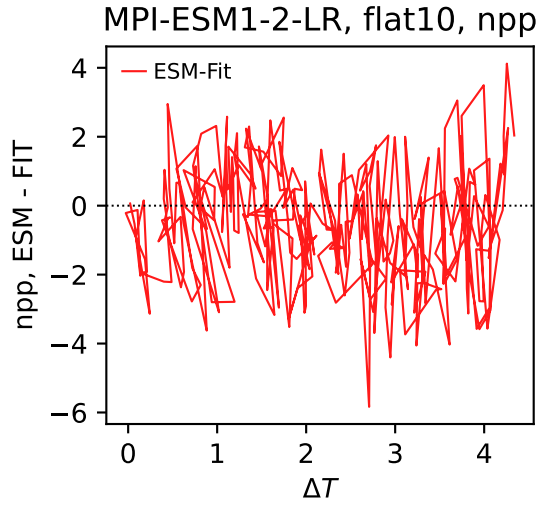

MPI-ESM1-2-LR, flat10, sres, ln(MSE/SIGMA)
140, -1.0000, 133.7185, 1.4212, -0.0056, -0.0648, 0.9925, 0.8569, 0
MPI-ESM1-2-LR
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5
0.6

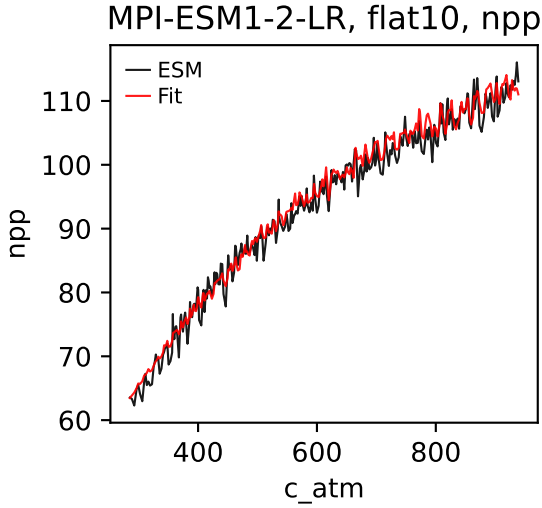

MPI-ESM1-2-LR, flat10, sres, ln(MSE/SIGMA)
140, -1.0000, 133.7185, 1.4212, -0.0056, -0.0648, 0.9925, 0.8569, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
0.90
0.92
0.94
0.96
0.98
1.00
sres_fast
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6

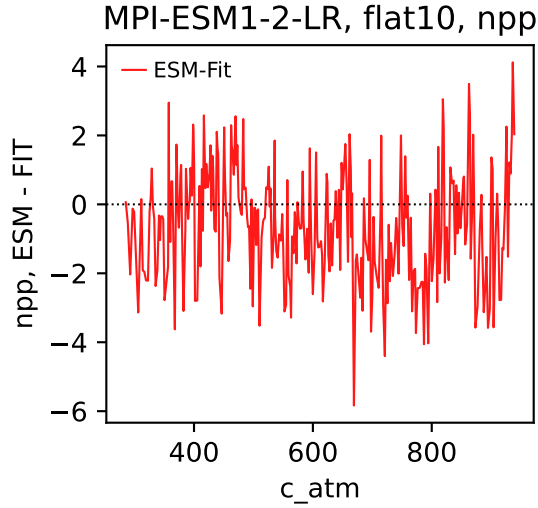

MPI-ESM1-2-LR, flat10, npp
ESM
Fit
npp
Year

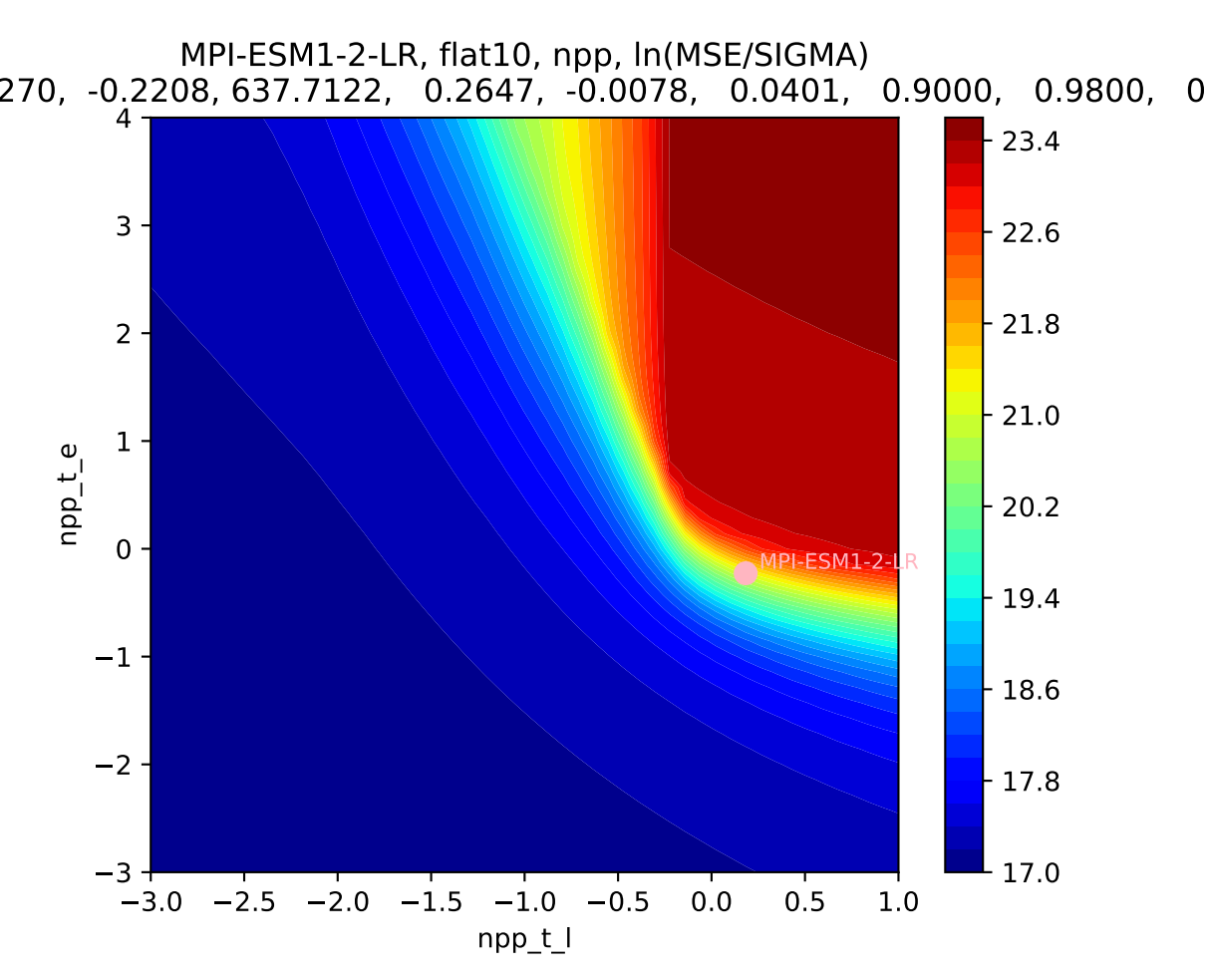

MPI-ESM1-2-LR, flat10, npp
ESM-Fit
npp, ESM - FIT
Year

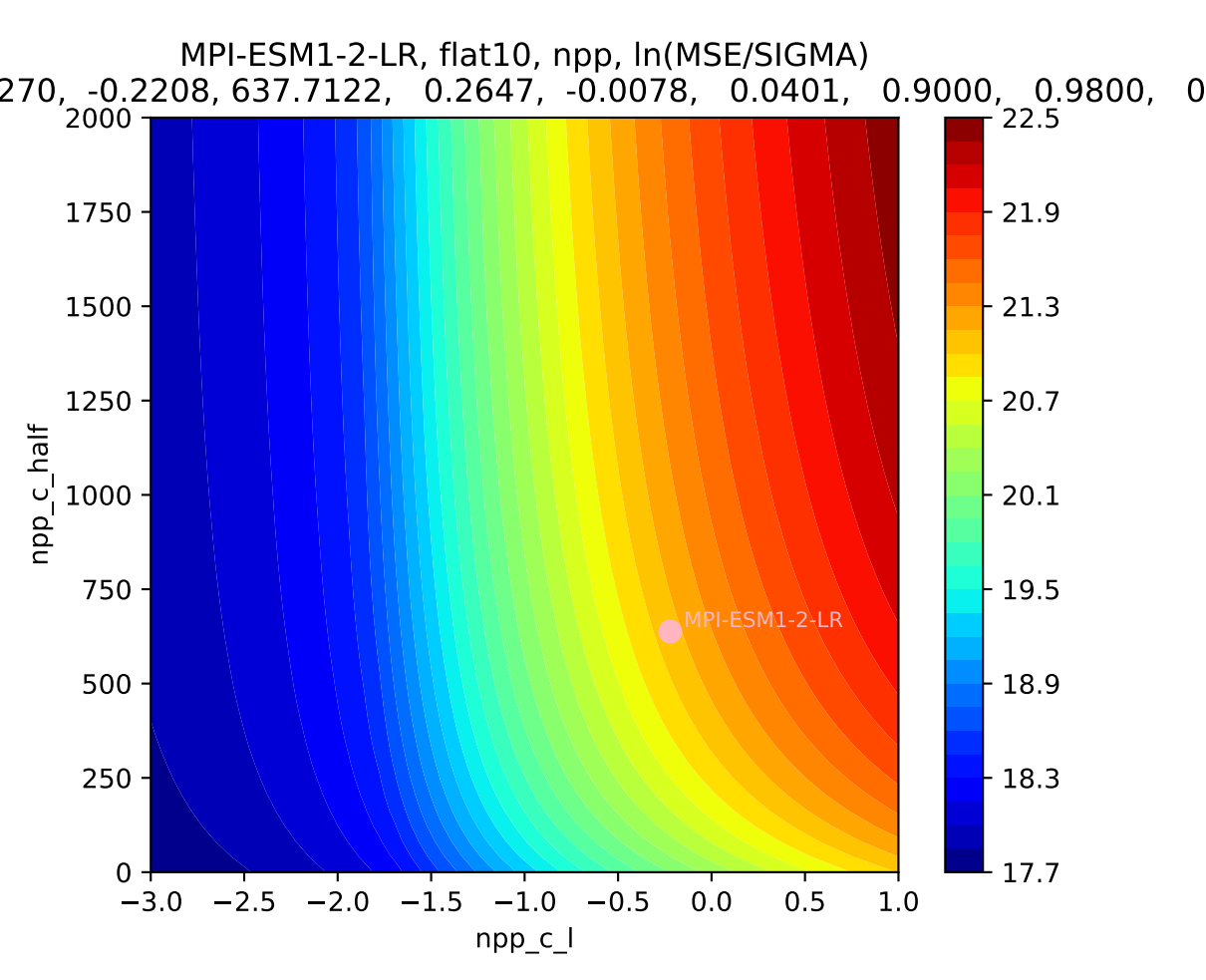

MPI-ESM1-2-LR, flat10, npp
ESM
Fit
npp
ΔT

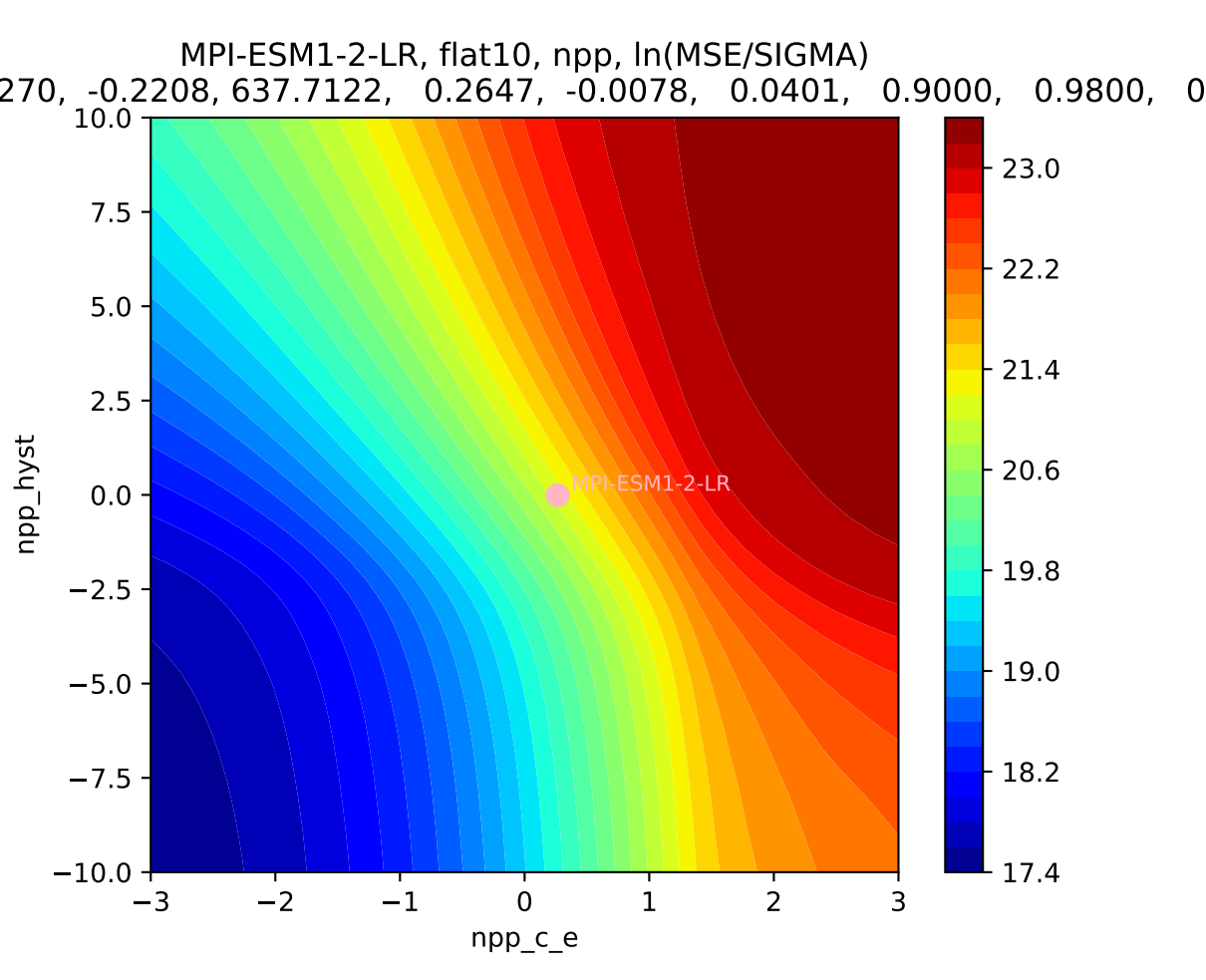

MPI-ESM1-2-LR, flat10, npp
ESM-Fit
npp, ESM - FIT
ΔT

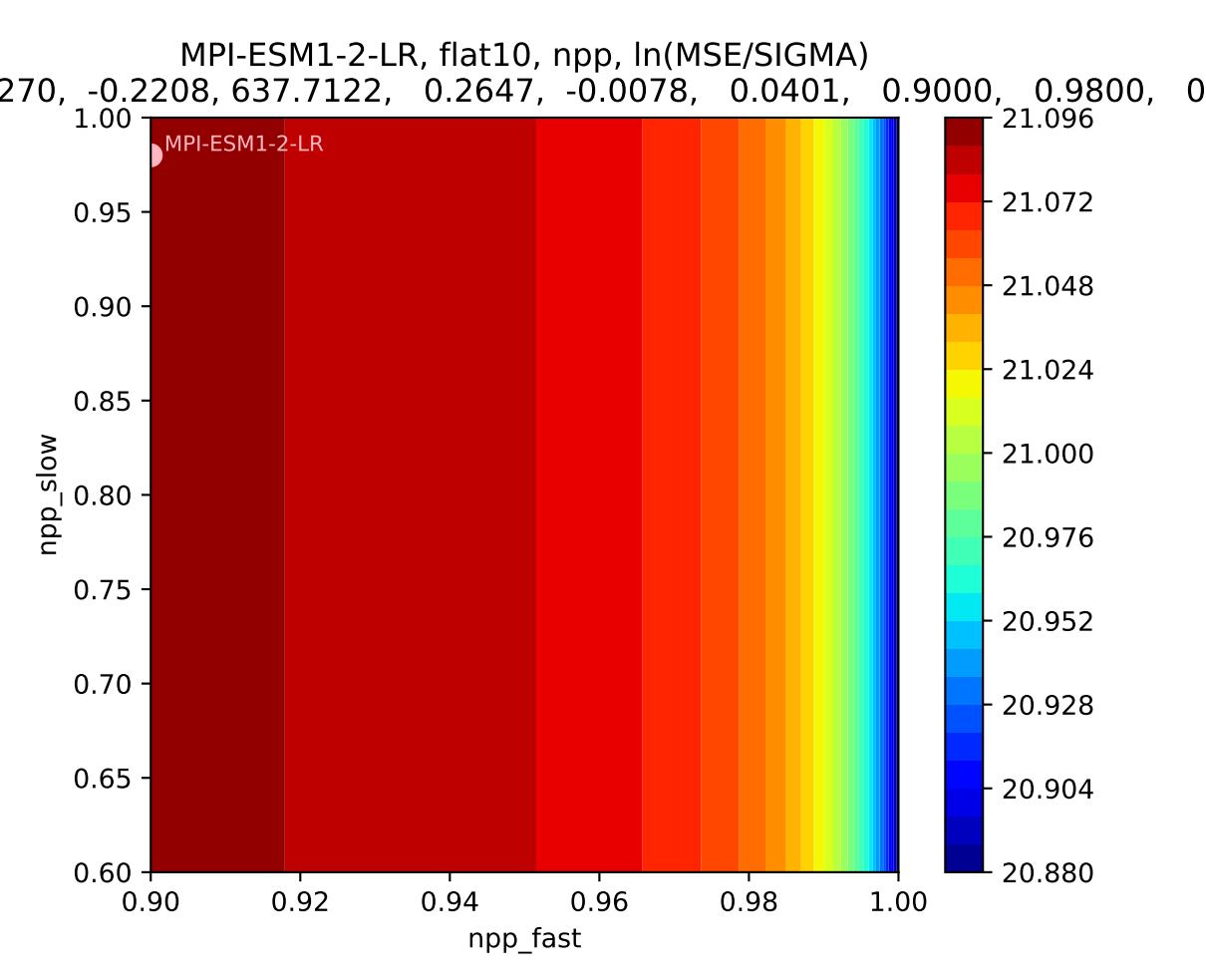

MPI-ESM1-2-LR, flat10, npp
ESM
Fit
npp
c_atm

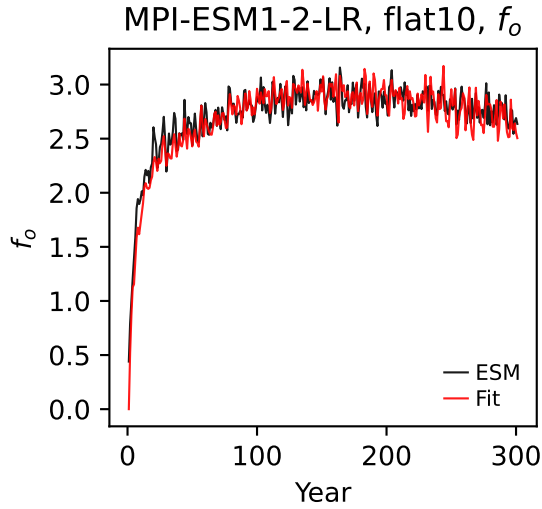

MPI-ESM1-2-LR, flat10, npp
ESM-Fit
npp, ESM - FIT
c_atm

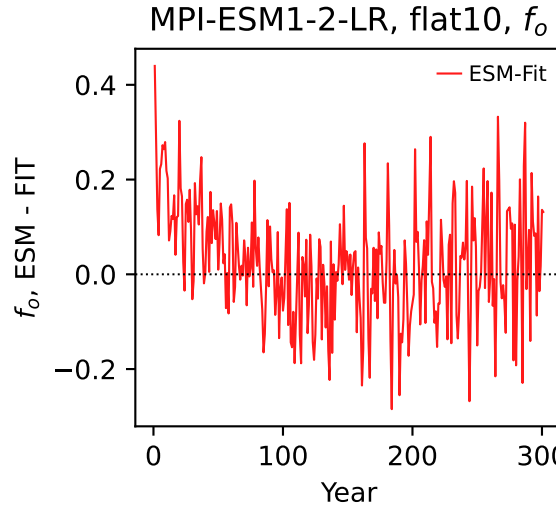

MPI-ESM1-2-LR, flat10, npp, ln(MSE/SIGMA)
270, -0.2208, 637.7122, 0.2647, -0.0078, 0.0401, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
23.4
22.6
21.8
21.0
20.2
19.4
18.6
17.8
17.0

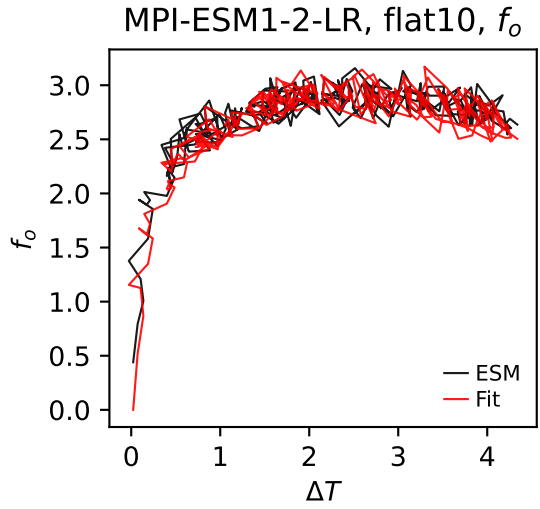

MPI-ESM1-2-LR, flat10, npp, ln(MSE/SIGMA)
270, -0.2208, 637.7122, 0.2647, -0.0078, 0.0401, 0.9000, 0.9800, 0
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
MPI-ESM1-2-LR
22.5
21.9
21.3
20.7
20.1
19.5
18.9
18.3
17.7

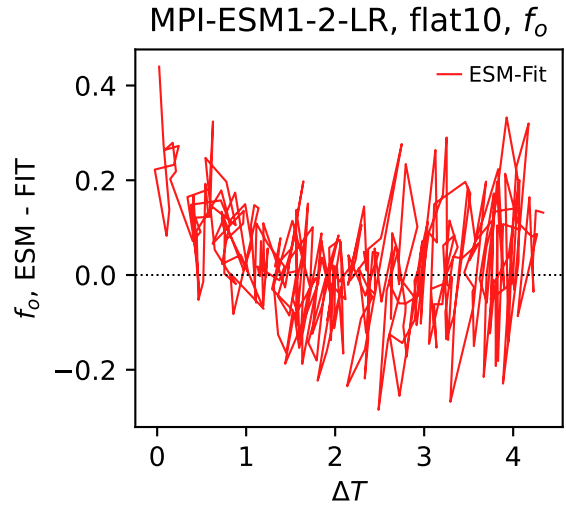

MPI-ESM1-2-LR, flat10, npp, ln(MSE/SIGMA)
270, -0.2208, 637.7122, 0.2647, -0.0078, 0.0401, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
23.0
22.2
21.4
20.6
19.8
19.0
18.2
17.4

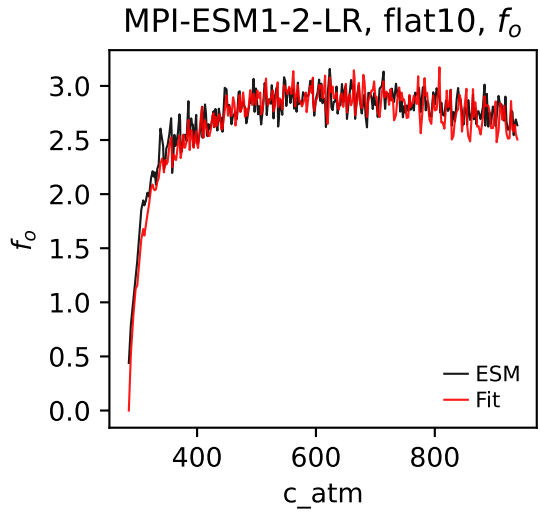

MPI-ESM1-2-LR, flat10, npp, ln(MSE/SIGMA)
270, -0.2208, 637.7122, 0.2647, -0.0078, 0.0401, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
21.096
21.072
21.048
21.024
21.000
20.976
20.952
20.928
20.904
20.880

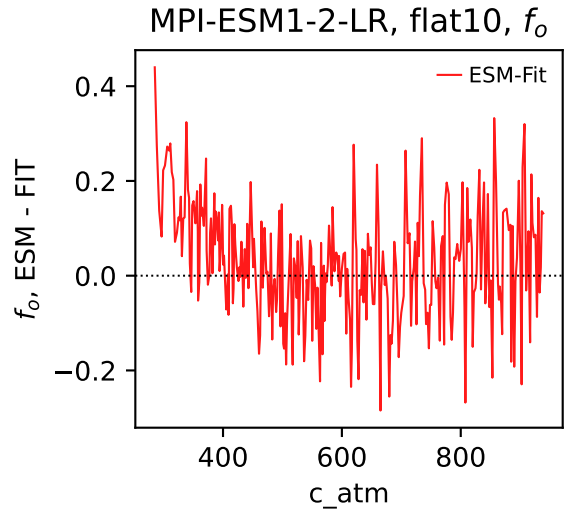

MPI-ESM1-2-LR, flat10, f_o
f_o
Year
ESM
Fit

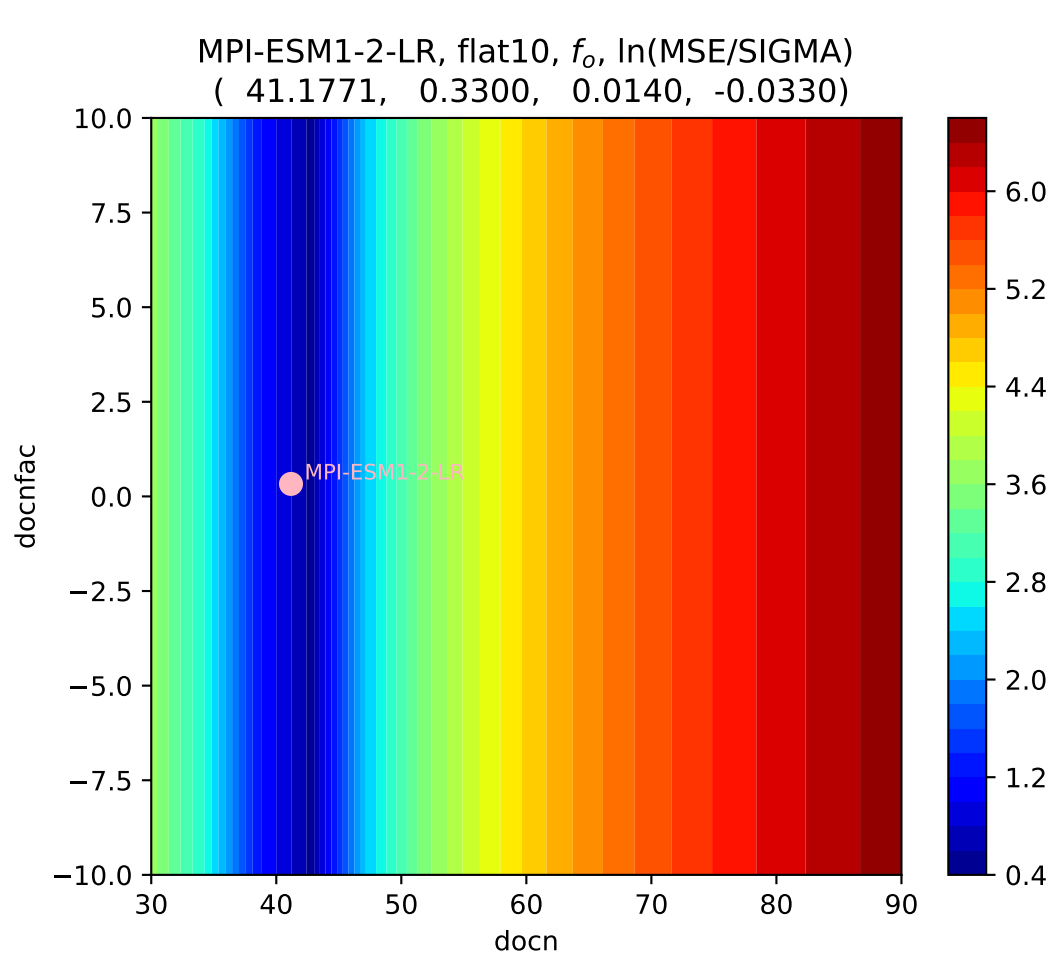

MPI-ESM1-2-LR, flat10, f_o
f_o, ESM - FIT
Year
ESM-Fit

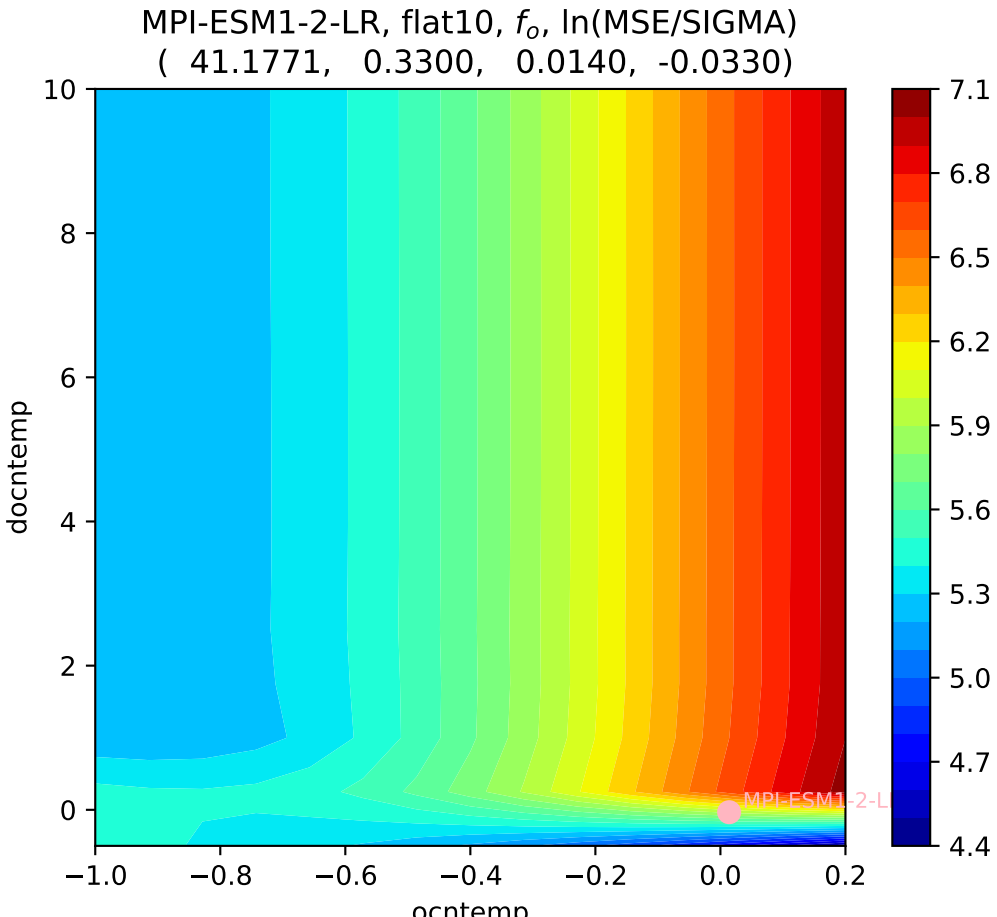

MPI-ESM1-2-LR, flat10, f_o
f_o
ΔT
ESM
Fit


MPI-ESM1-2-LR, flat10, f_o
f_o, ESM - FIT
ΔT
ESM-Fit


MPI-ESM1-2-LR, flat10, f_o
f_o
c_atm
ESM
Fit


MPI-ESM1-2-LR, flat10, f_o
f_o, ESM - FIT
c_atm
ESM-Fit


MPI-ESM1-2-LR, flat10, f_o, ln(MSE/SIGMA)
(41.1771, 0.3300, 0.0140, -0.0330)
MPI-ESM1-2-LR
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
6.0
5.2
4.4
3.6
2.8
2.0
1.2
0.4


MPI-ESM1-2-LR, flat10, f_o, ln(MSE/SIGMA)
(41.1771, 0.3300, 0.0140, -0.0330)
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
7.1
6.8
6.5
6.2
5.9
5.6
5.3
5.0
4.7
4.4
MPI-ESM1-2-LR