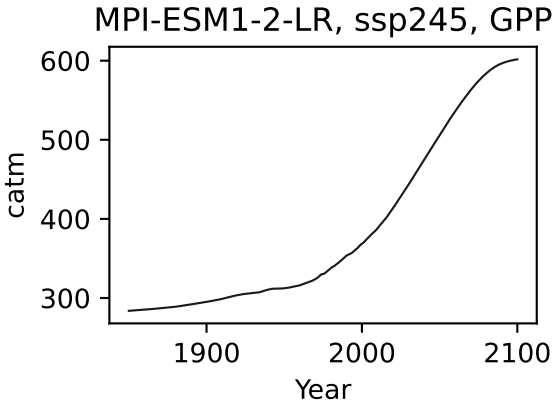
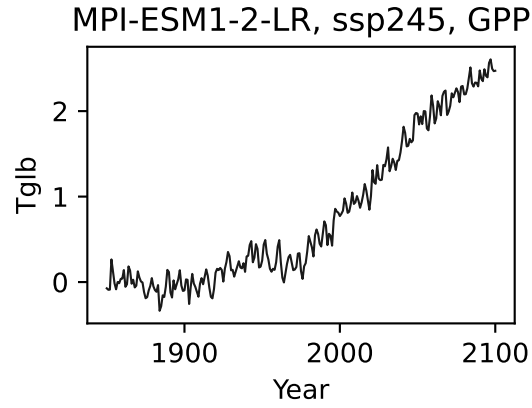
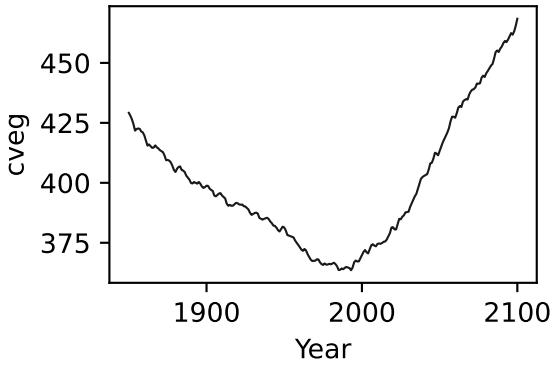
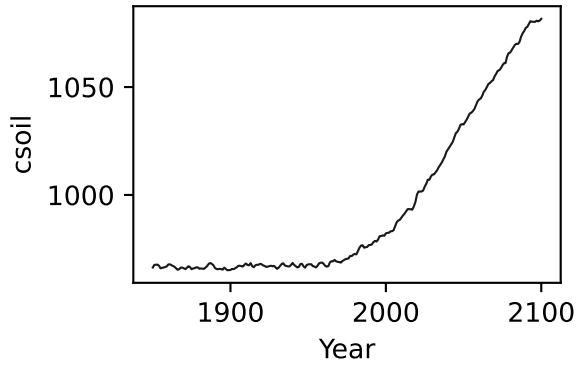
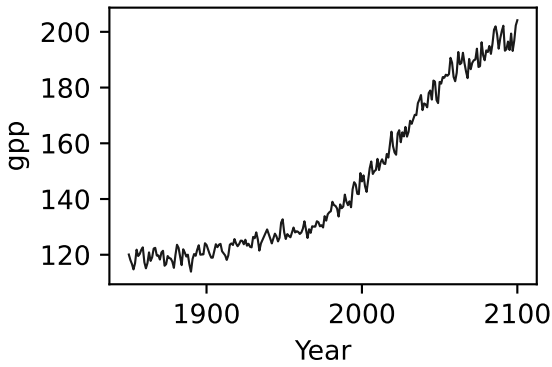
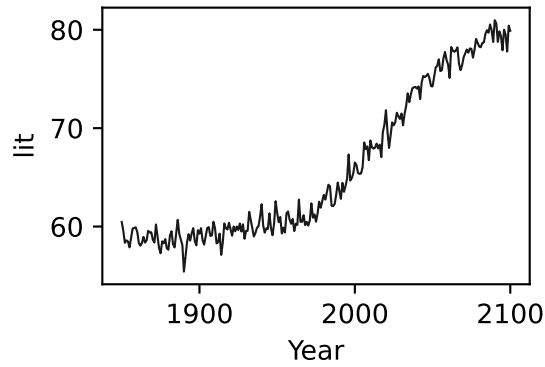

MPI-ESM1-2-LR, ssp245, GPP
catm
600
500
400
300
1900
2000
2100
Year

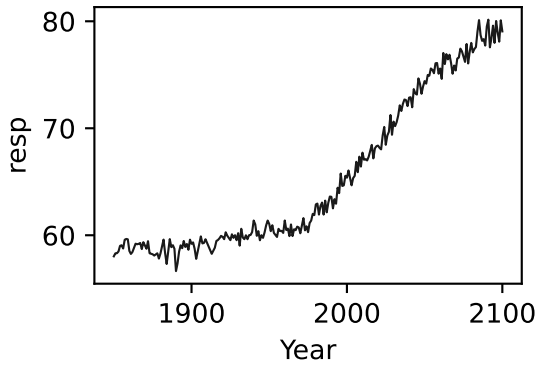

MPI-ESM1-2-LR, ssp245, GPP
Tglb
2
1
0
1900
2000
2100
Year

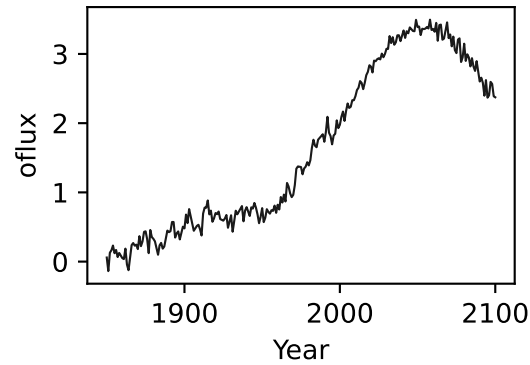

cveg
450
425
400
375
1900
2000
2100
Year

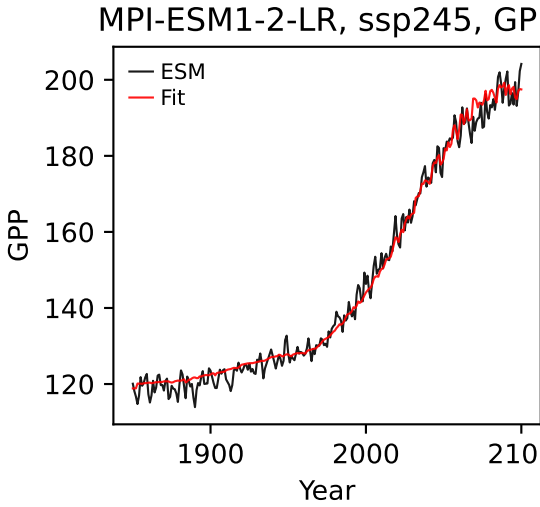

csoil
1050
1000
1900
2000
2100
Year

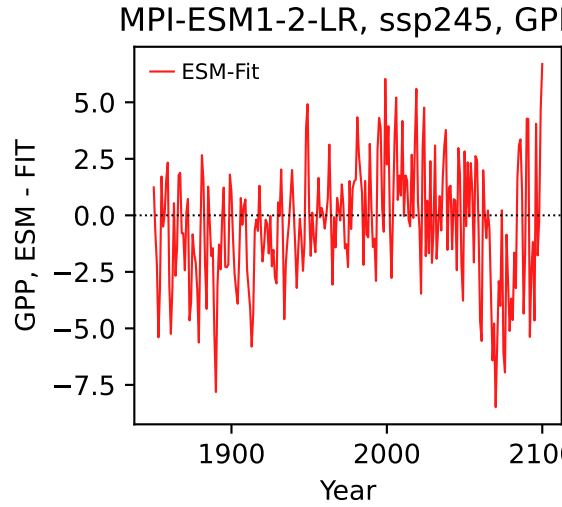

gpp
200
180
160
140
120
1900
2000
2100
Year

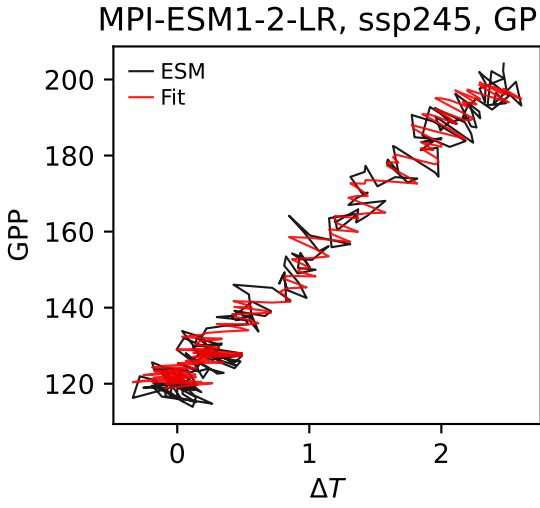

lit
80
70
60
1900
2000
2100
Year

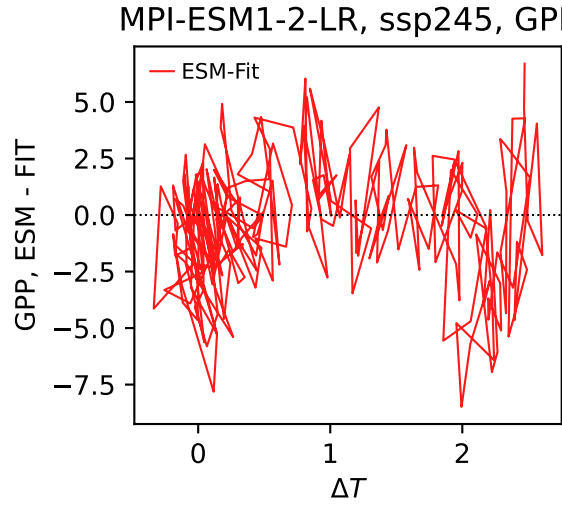

resp
80
70
60
1900
2000
2100
Year

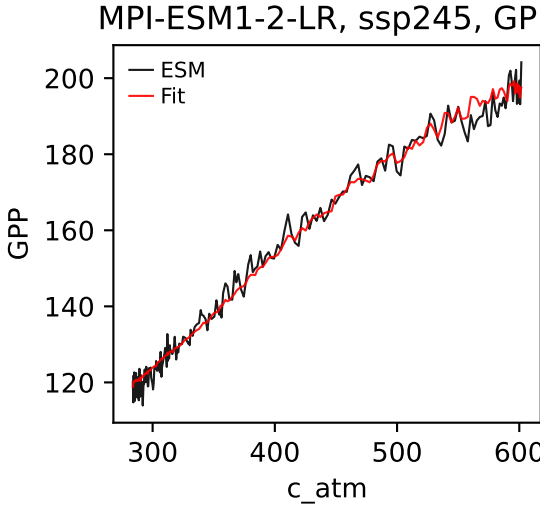

oflux
3
2
1
0
1900
2000
2100
Year

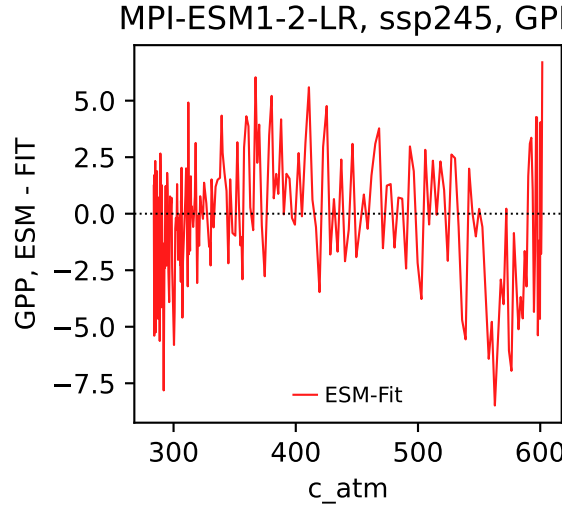

MPI-ESM1-2-LR, ssp245, GPP
ESM
Fit
GPP
Year

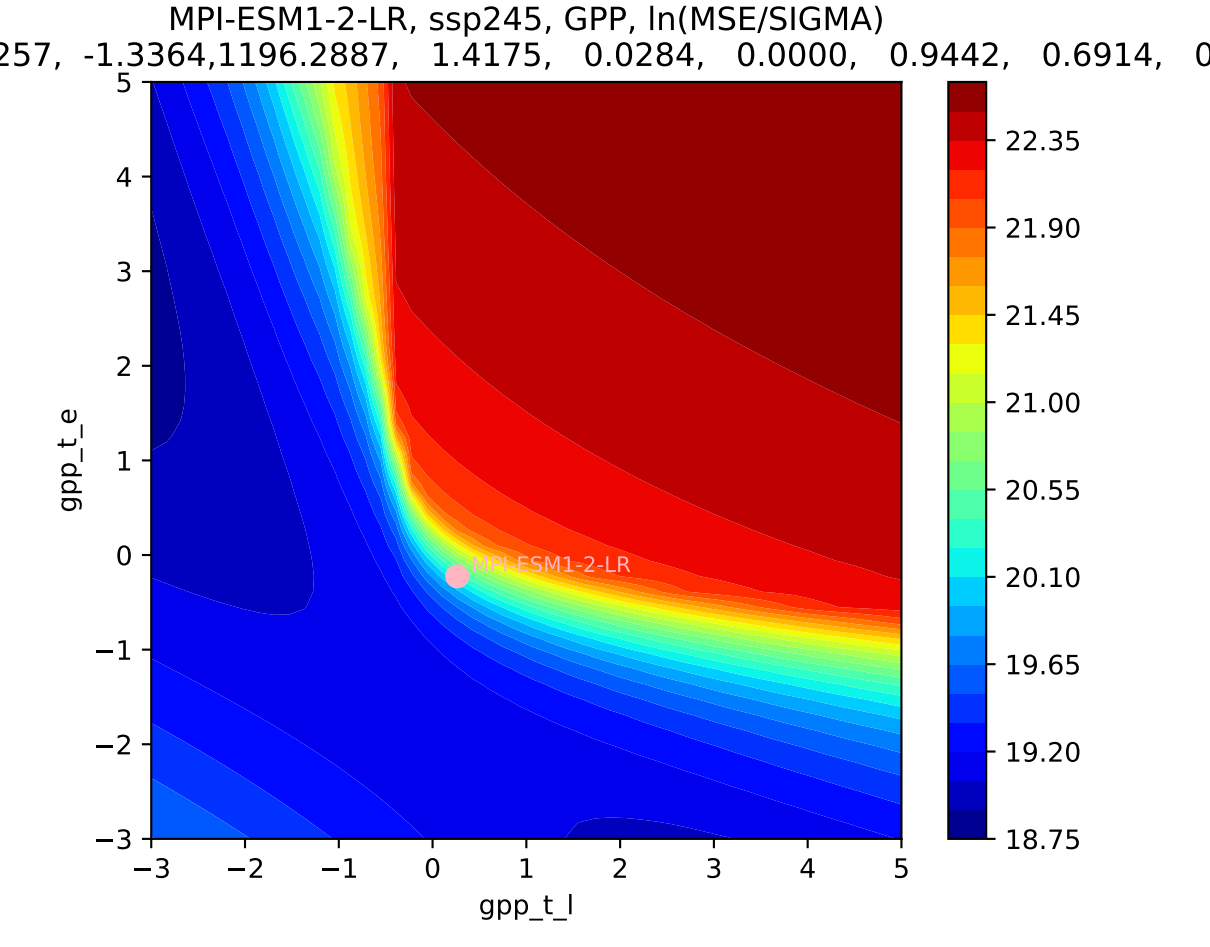

MPI-ESM1-2-LR, ssp245, GPP
ESM-Fit
GPP, ESM - FIT
Year

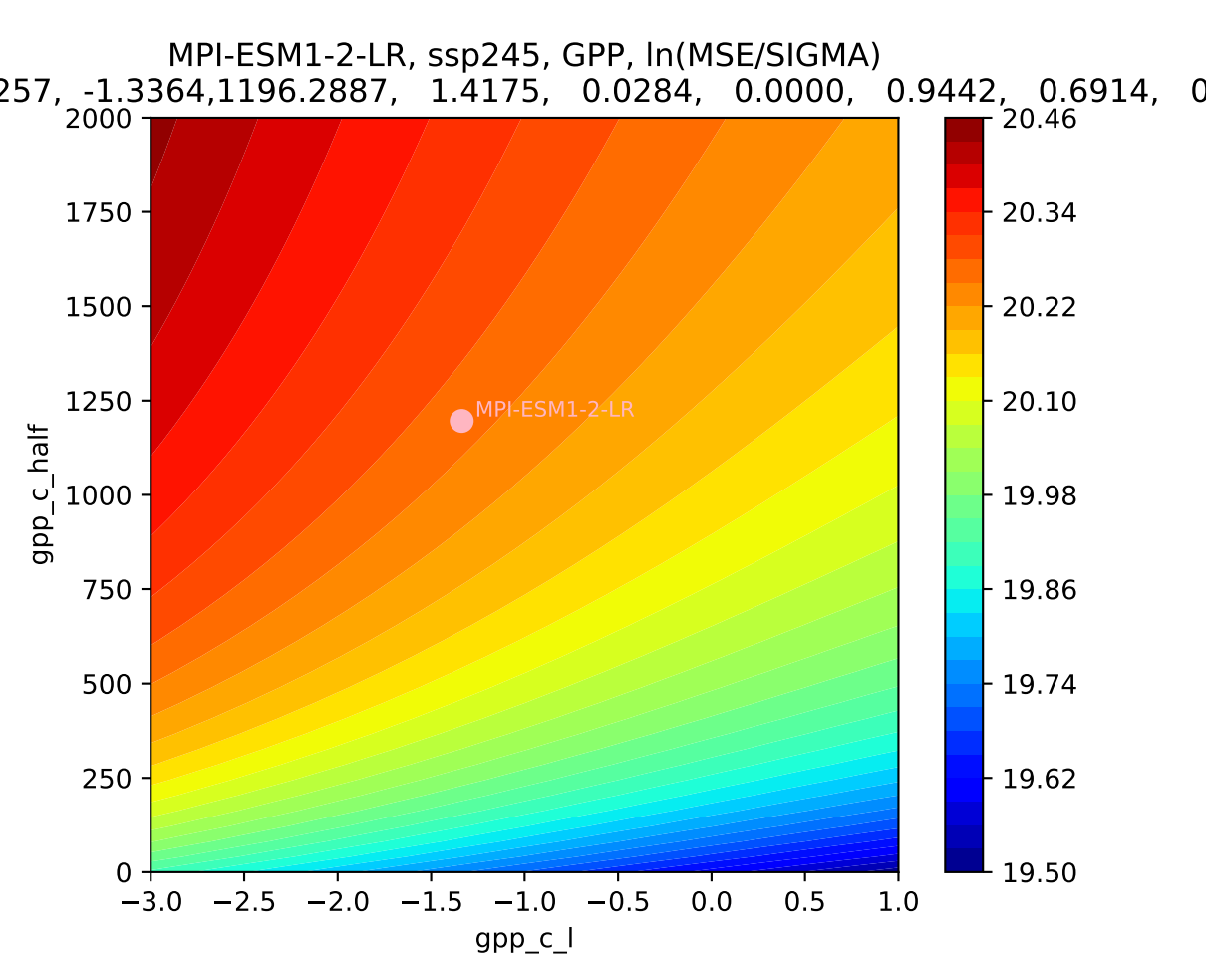

MPI-ESM1-2-LR, ssp245, GPP
ESM
Fit
GPP
ΔT

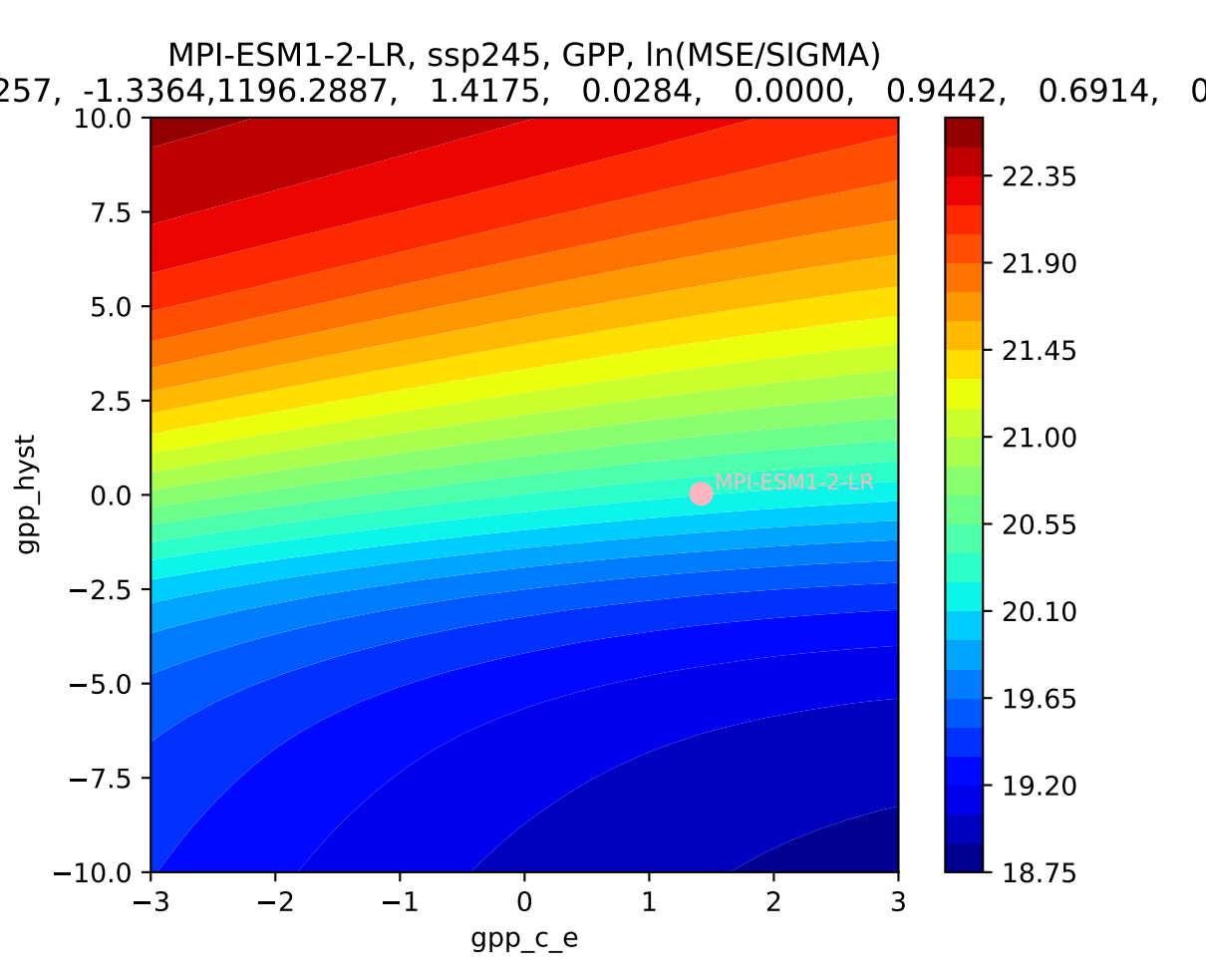

MPI-ESM1-2-LR, ssp245, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

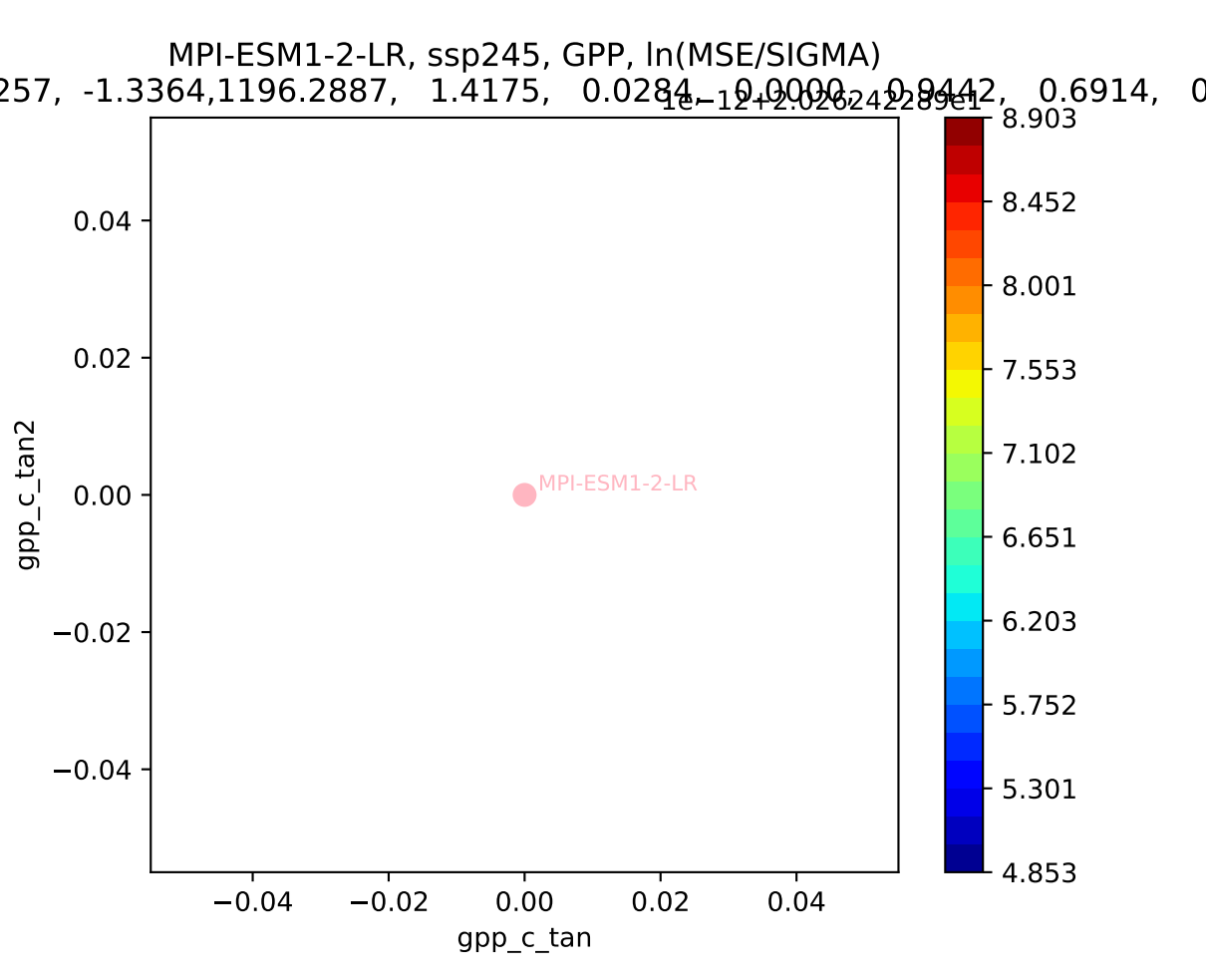

MPI-ESM1-2-LR, ssp245, GPP
ESM
Fit
GPP
c_atm

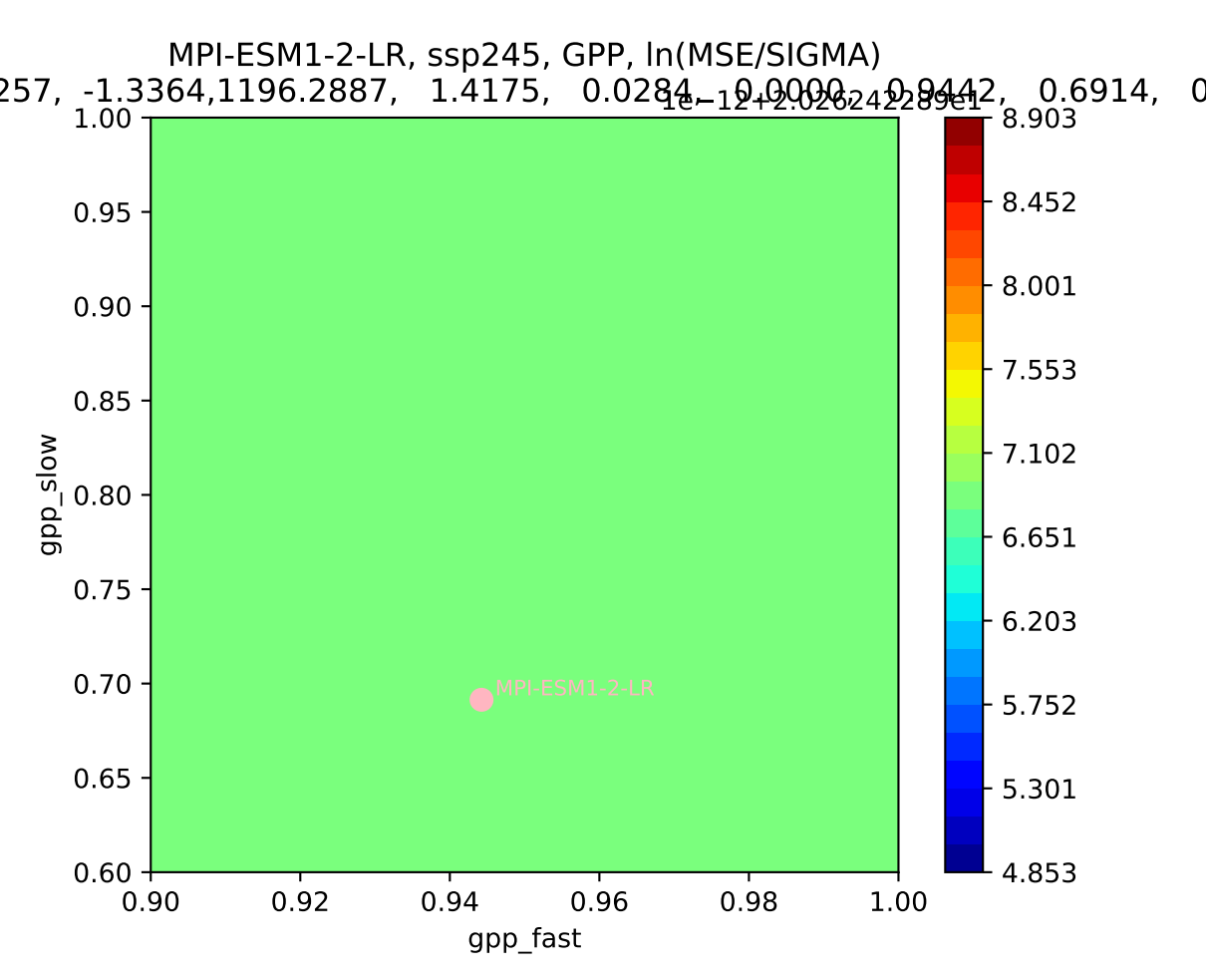

MPI-ESM1-2-LR, ssp245, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

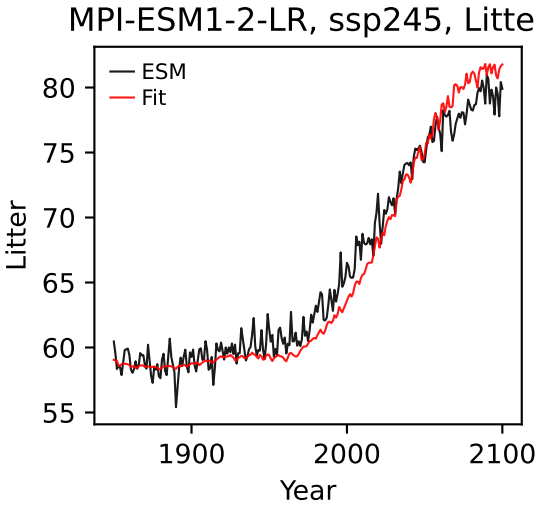

MPI-ESM1-2-LR, ssp245, GPP, ln(MSE/SIGMA)
257, -1.3364,1196.2887, 1.4175, 0.0284, 0.0000, 0.9442, 0.6914, 0
MPI-ESM1-2-LR
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
22.35
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75

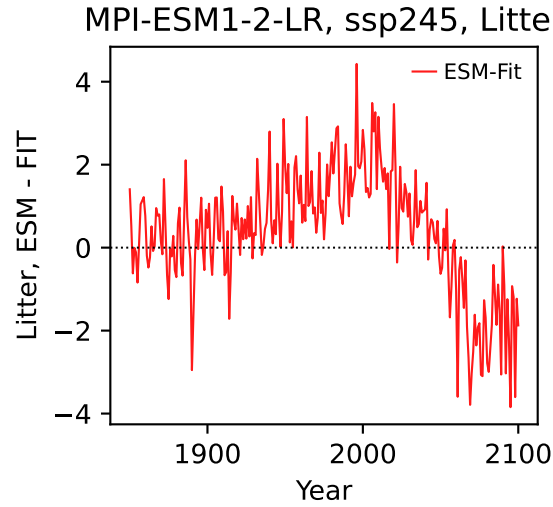

MPI-ESM1-2-LR, ssp245, GPP, ln(MSE/SIGMA)
257, -1.3364,1196.2887, 1.4175, 0.0284, 0.0000, 0.9442, 0.6914, 0
MPI-ESM1-2-LR
gpp_c_half
gpp_c_l
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
20.46
20.34
20.22
20.10
19.98
19.86
19.74
19.62
19.50

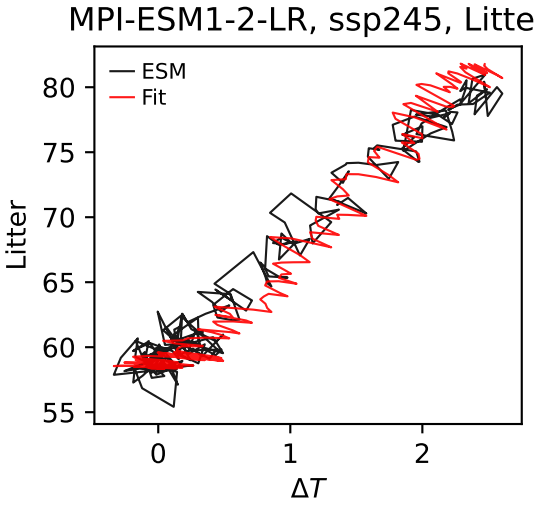

MPI-ESM1-2-LR, ssp245, GPP, ln(MSE/SIGMA)
257, -1.3364,1196.2887, 1.4175, 0.0284, 0.0000, 0.9442, 0.6914, 0
MPI-ESM1-2-LR
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.35
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75

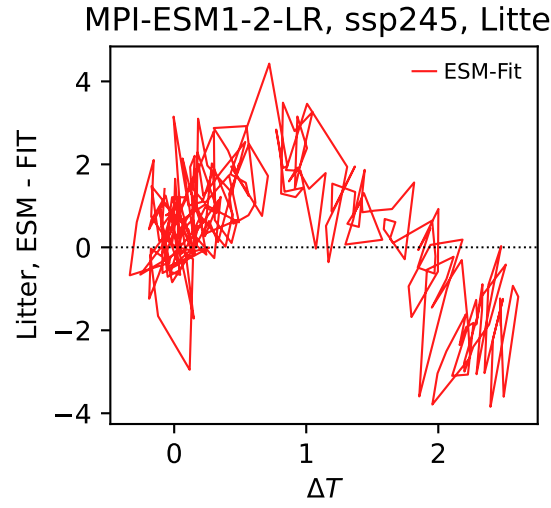

MPI-ESM1-2-LR, ssp245, GPP, ln(MSE/SIGMA)
257, -1.3364,1196.2887, 1.4175, 0.0284, 0.0000, 0.9442, 0.6914, 0
1e−12+2.026242289e1
8.903
8.452
8.001
7.553
7.102
6.651
6.203
5.752
5.301
4.853
MPI-ESM1-2-LR
0.04
0.02
0.00
−0.02
−0.04
gpp_c_tan2
−0.04
−0.02
0.00
0.02
0.04
gpp_c_tan

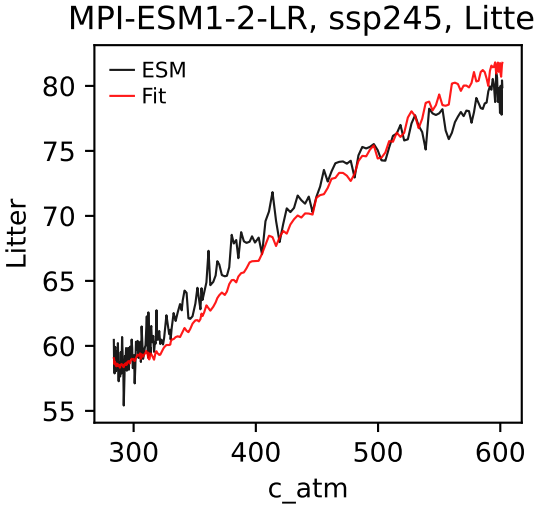

MPI-ESM1-2-LR, ssp245, GPP, ln(MSE/SIGMA)
257, -1.3364,1196.2887, 1.4175, 0.0284, 0.0000, 0.9442, 0.6914, 0
1e−12+2.026242289e1
8.903
8.452
8.001
7.553
7.102
6.651
6.203
5.752
5.301
4.853
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
gpp_slow
MPI-ESM1-2-LR
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast

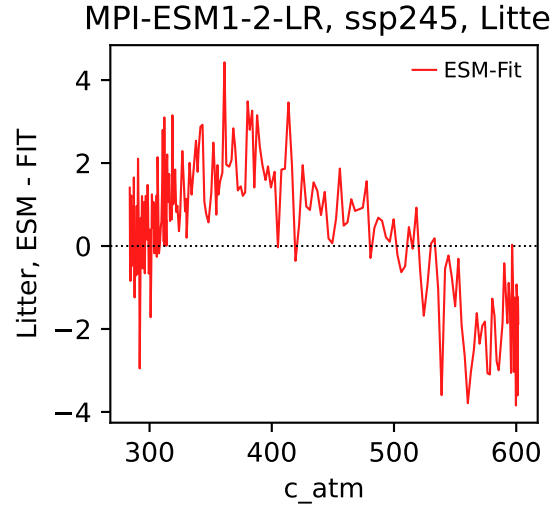

MPI-ESM1-2-LR, ssp245, Litter
ESM
Fit
Litter
Year

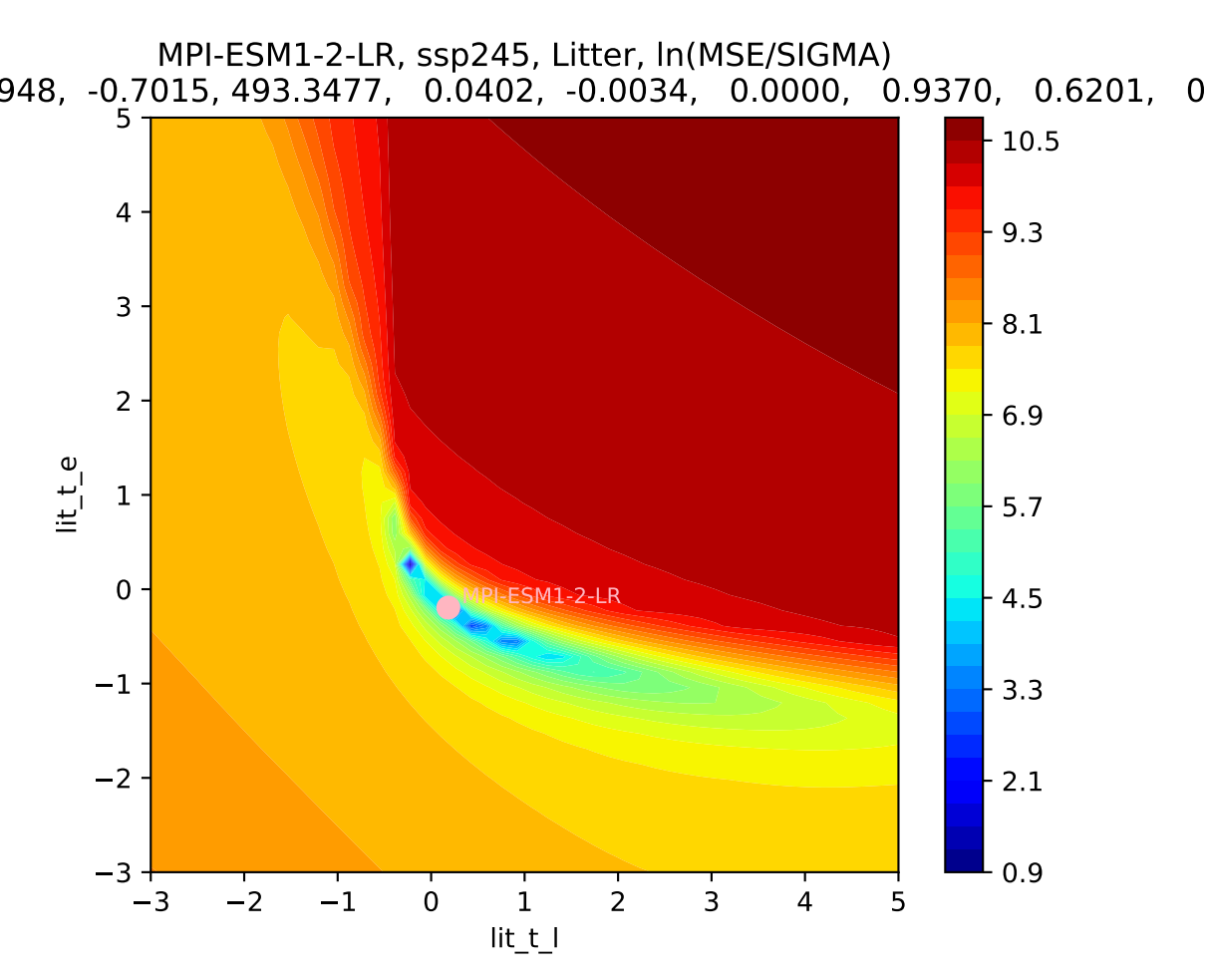

MPI-ESM1-2-LR, ssp245, Litter
ESM-Fit
Litter, ESM - FIT
Year

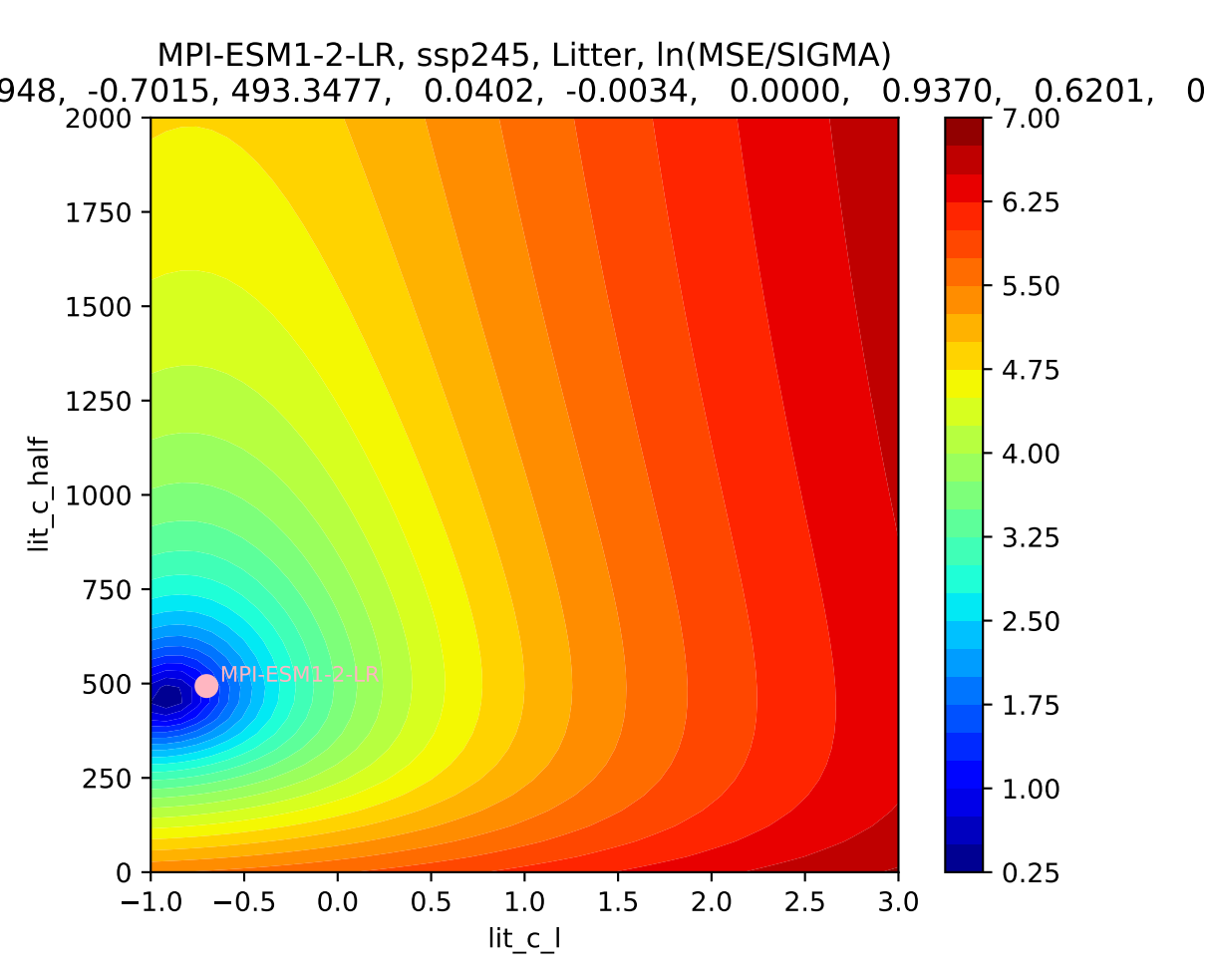

MPI-ESM1-2-LR, ssp245, Litter
ESM
Fit
Litter
ΔT

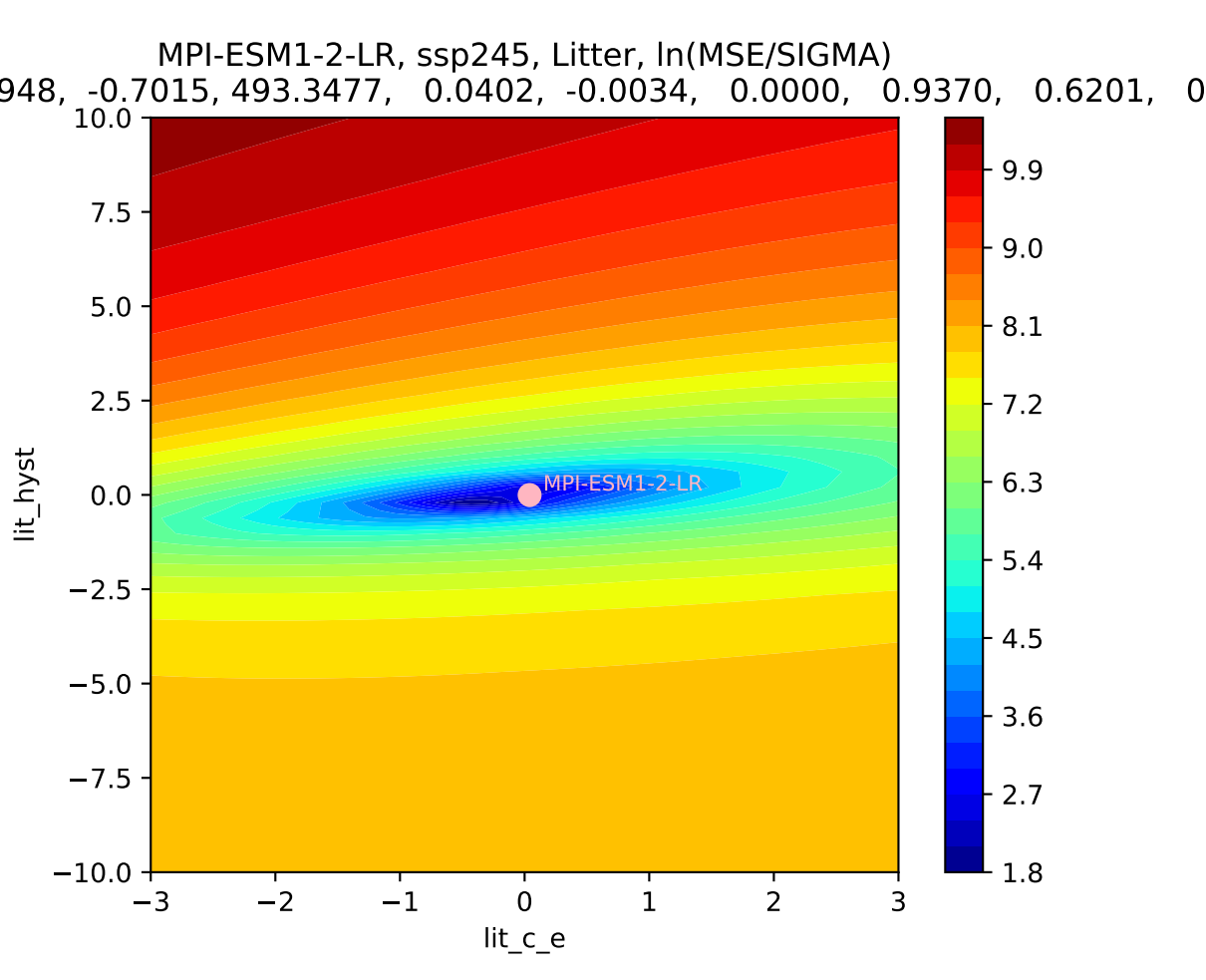

MPI-ESM1-2-LR, ssp245, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

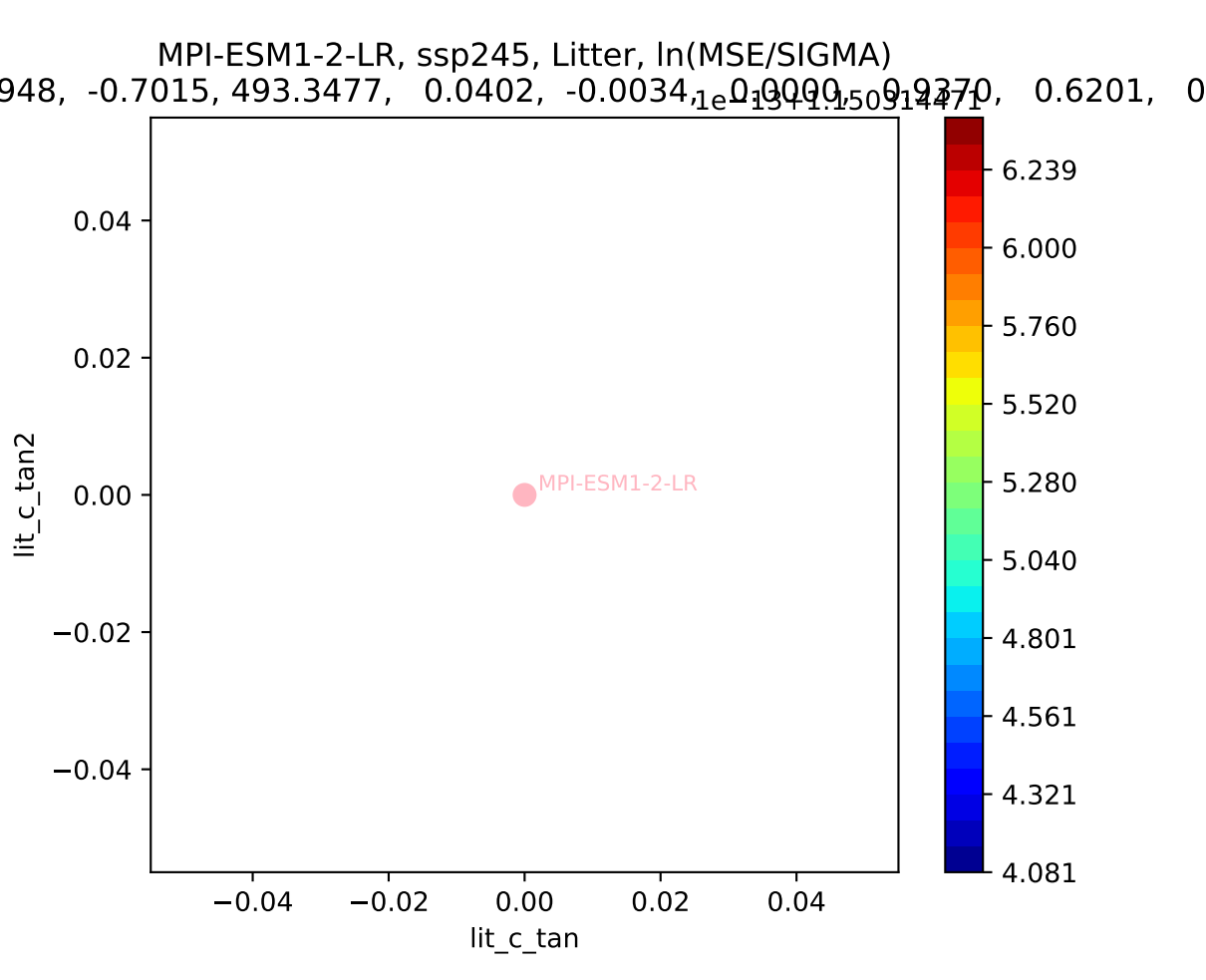

MPI-ESM1-2-LR, ssp245, Litter
ESM
Fit
Litter
c_atm

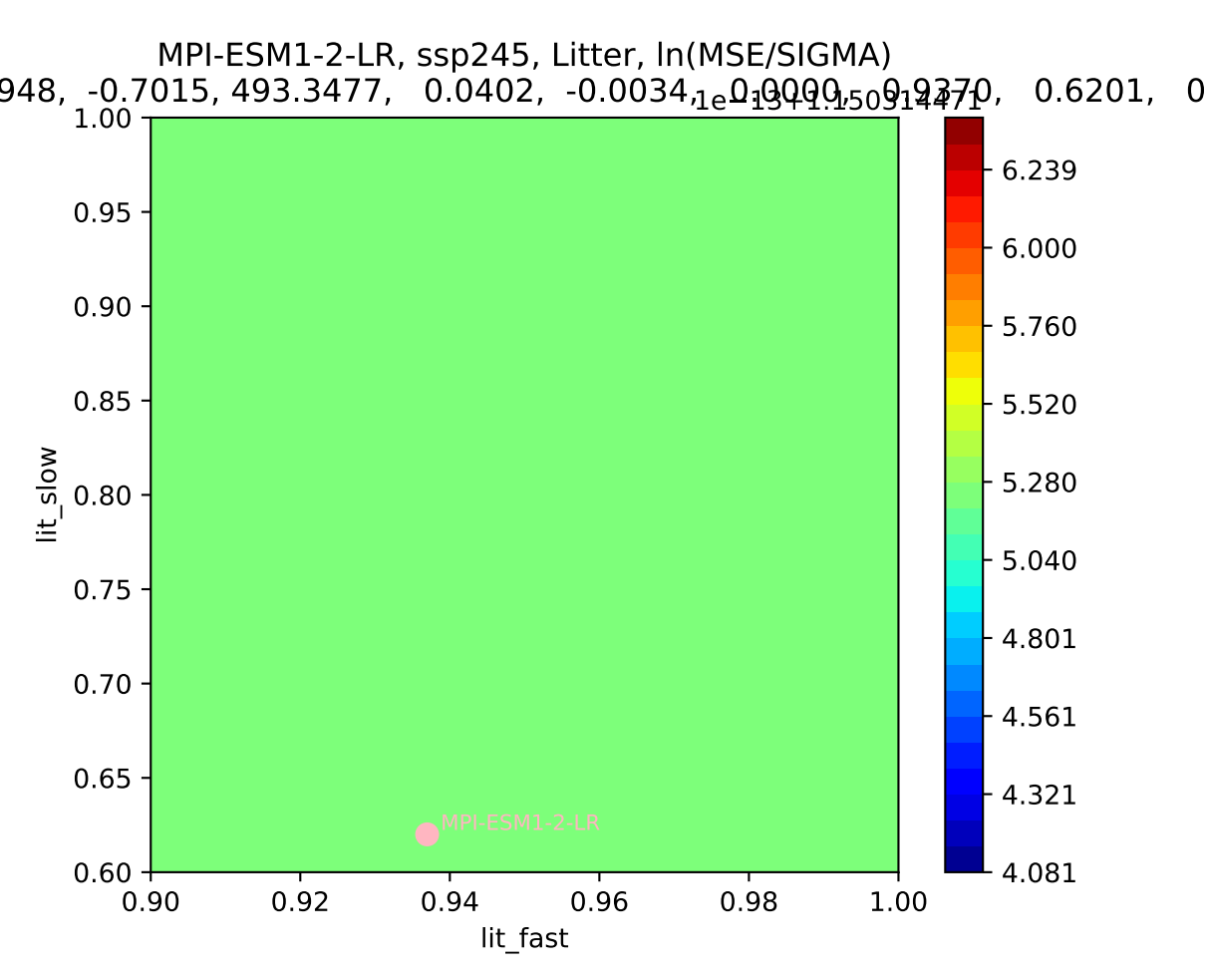

MPI-ESM1-2-LR, ssp245, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

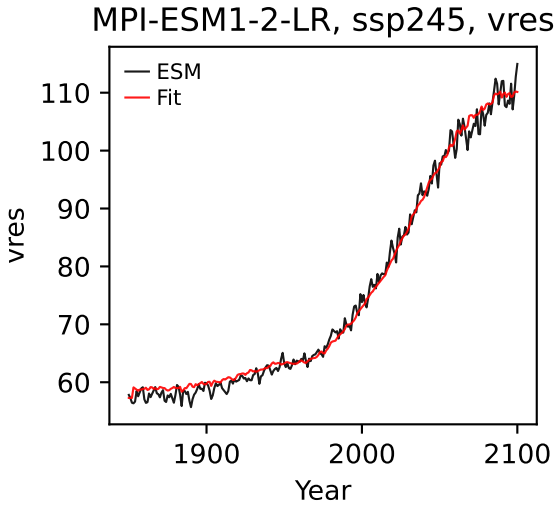

MPI-ESM1-2-LR, ssp245, Litter, ln(MSE/SIGMA)
948, -0.7015, 493.3477, 0.0402, -0.0034, 0.0000, 0.9370, 0.6201, 0
MPI-ESM1-2-LR
lit_t_e
lit_t_l
10.5
9.3
8.1
6.9
5.7
4.5
3.3
2.1
0.9

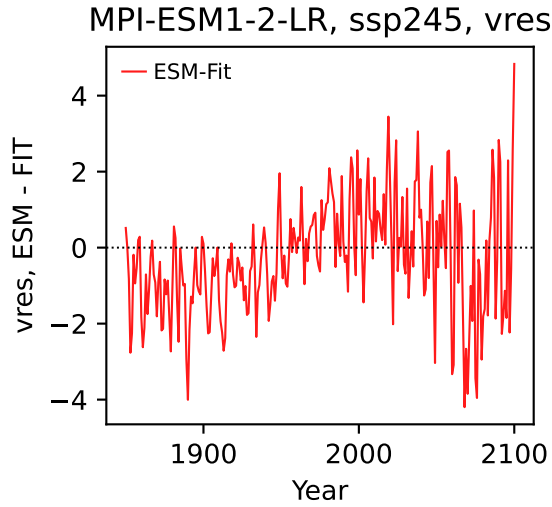

MPI-ESM1-2-LR, ssp245, Litter, ln(MSE/SIGMA)
948, -0.7015, 493.3477, 0.0402, -0.0034, 0.0000, 0.9370, 0.6201, 0
lit_c_half
lit_c_l
MPI-ESM1-2-LR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00
0.25

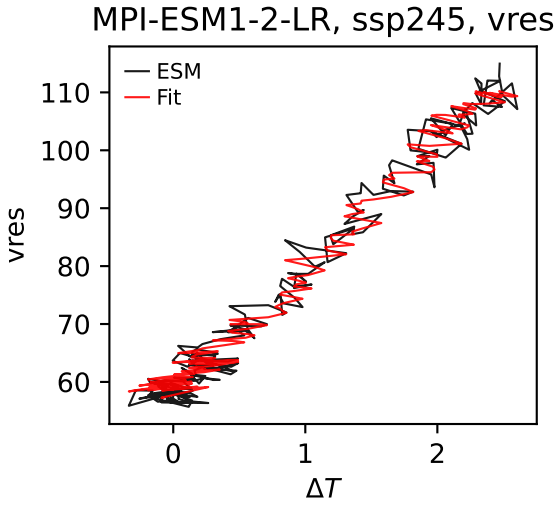

MPI-ESM1-2-LR, ssp245, Litter, ln(MSE/SIGMA)
948, -0.7015, 493.3477, 0.0402, -0.0034, 0.0000, 0.9370, 0.6201, 0
MPI-ESM1-2-LR
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8

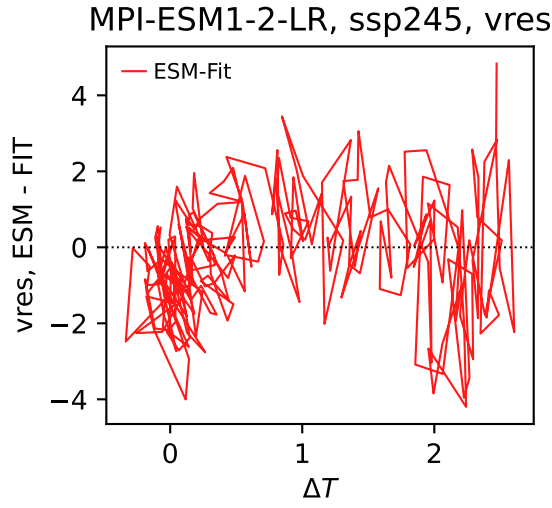

MPI-ESM1-2-LR, ssp245, Litter, ln(MSE/SIGMA)
948, -0.7015, 493.3477, 0.0402, -0.0034, 0.0000, 0.9370, 0.6201, 0
1e-131+1.1509144711
MPI-ESM1-2-LR
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
6.239
6.000
5.760
5.520
5.280
5.040
4.801
4.561
4.321
4.081

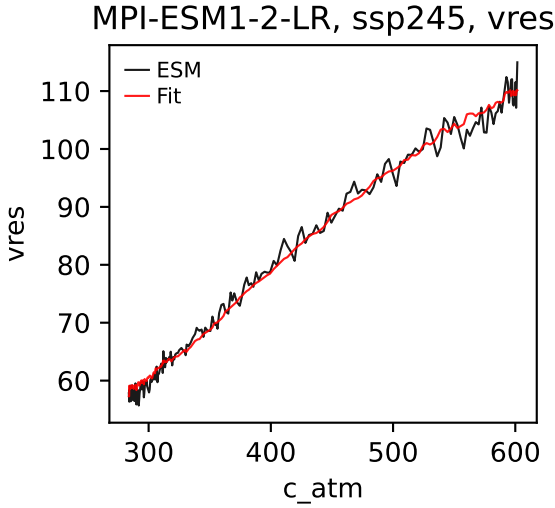

MPI-ESM1-2-LR, ssp245, Litter, ln(MSE/SIGMA)
948, -0.7015, 493.3477, 0.0402, -0.0034, 0.0000, 0.9370, 0.6201, 0
1e-13+1.1.5031447I
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
lit_slow
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
MPI-ESM1-2-LR
6.239
6.000
5.760
5.520
5.280
5.040
4.801
4.561
4.321
4.081

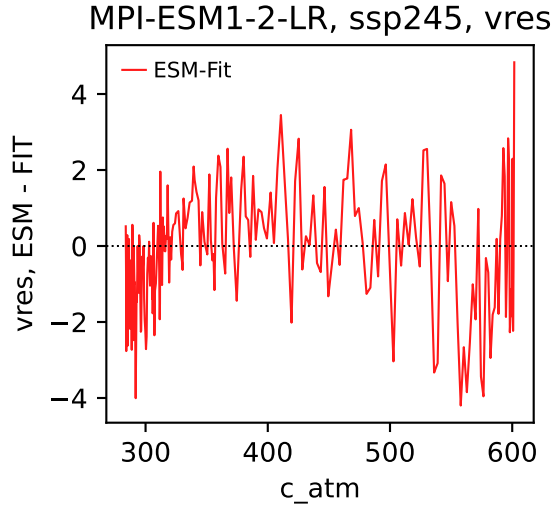

MPI-ESM1-2-LR, ssp245, vres
ESM
Fit
vres
Year

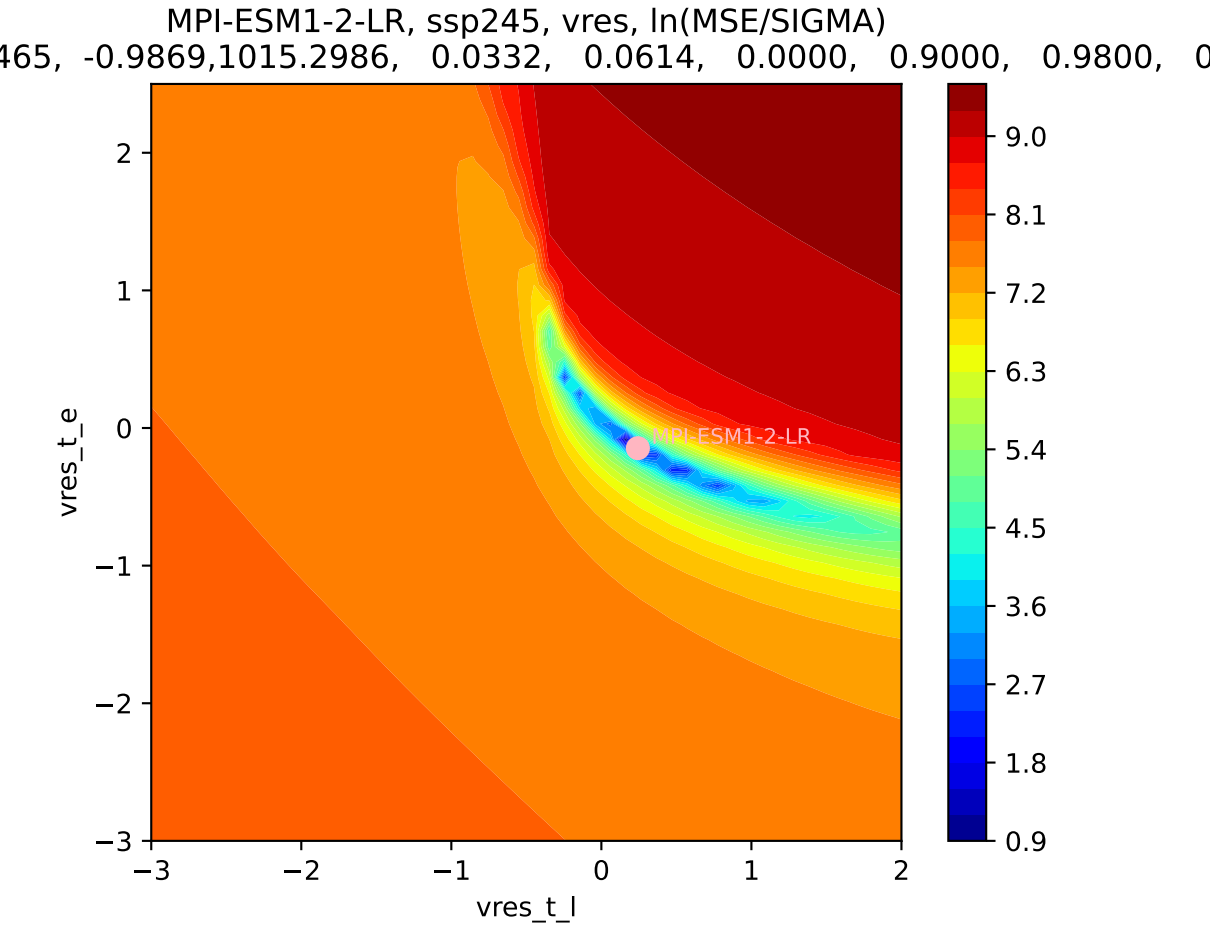

MPI-ESM1-2-LR, ssp245, vres
ESM-Fit
vres, ESM - FIT
Year

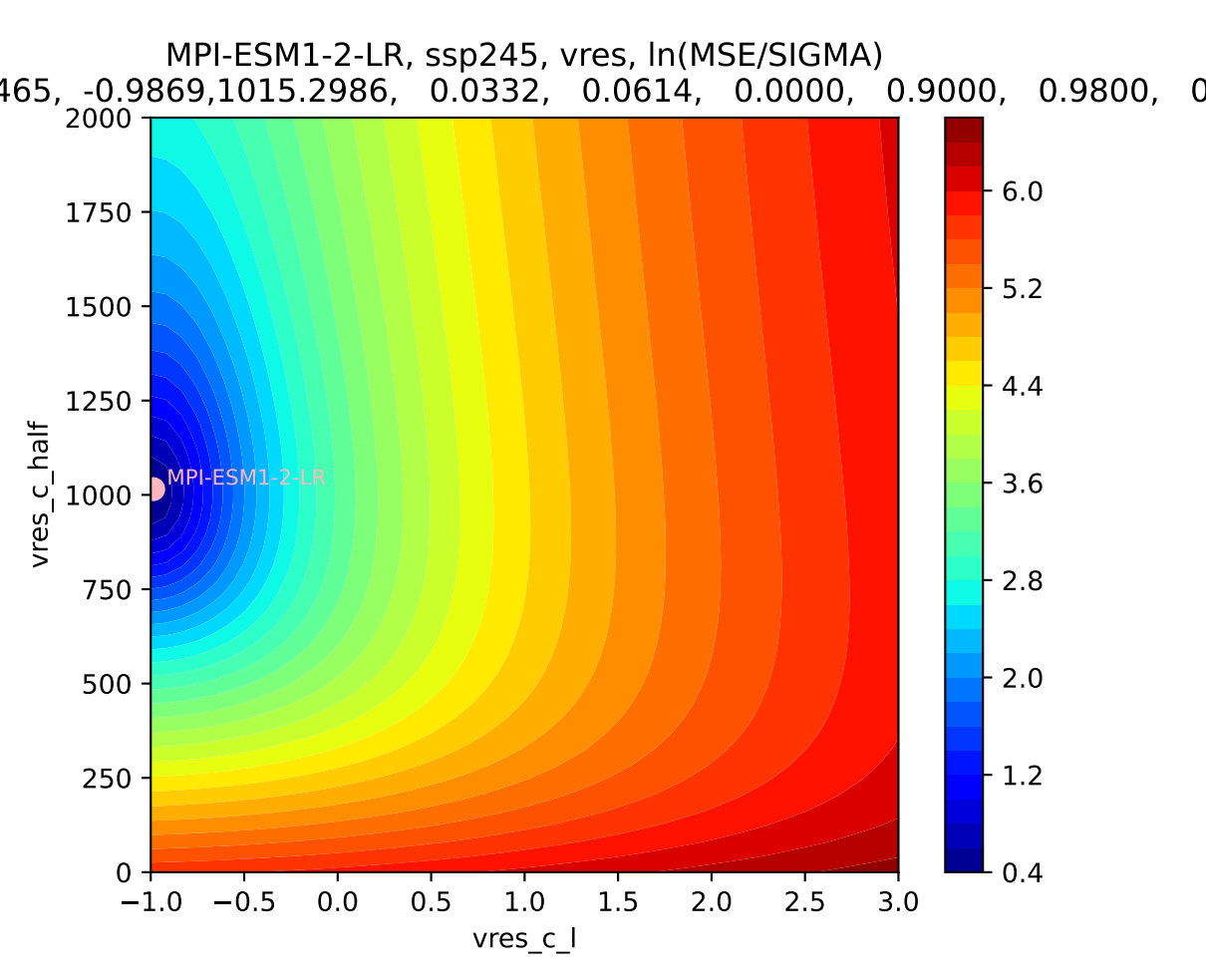

MPI-ESM1-2-LR, ssp245, vres
ESM
Fit
vres
ΔT

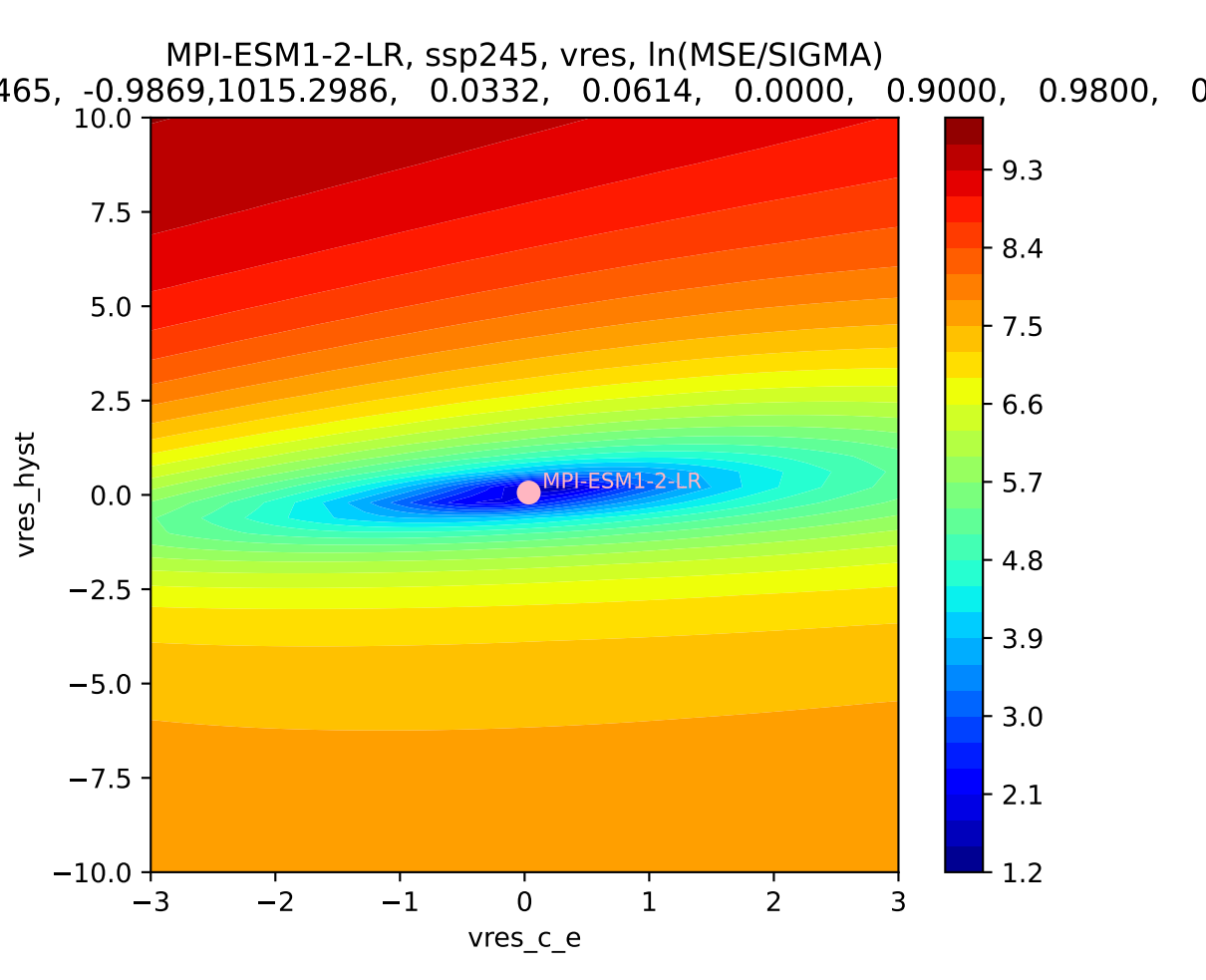

MPI-ESM1-2-LR, ssp245, vres
ESM-Fit
vres, ESM - FIT
ΔT

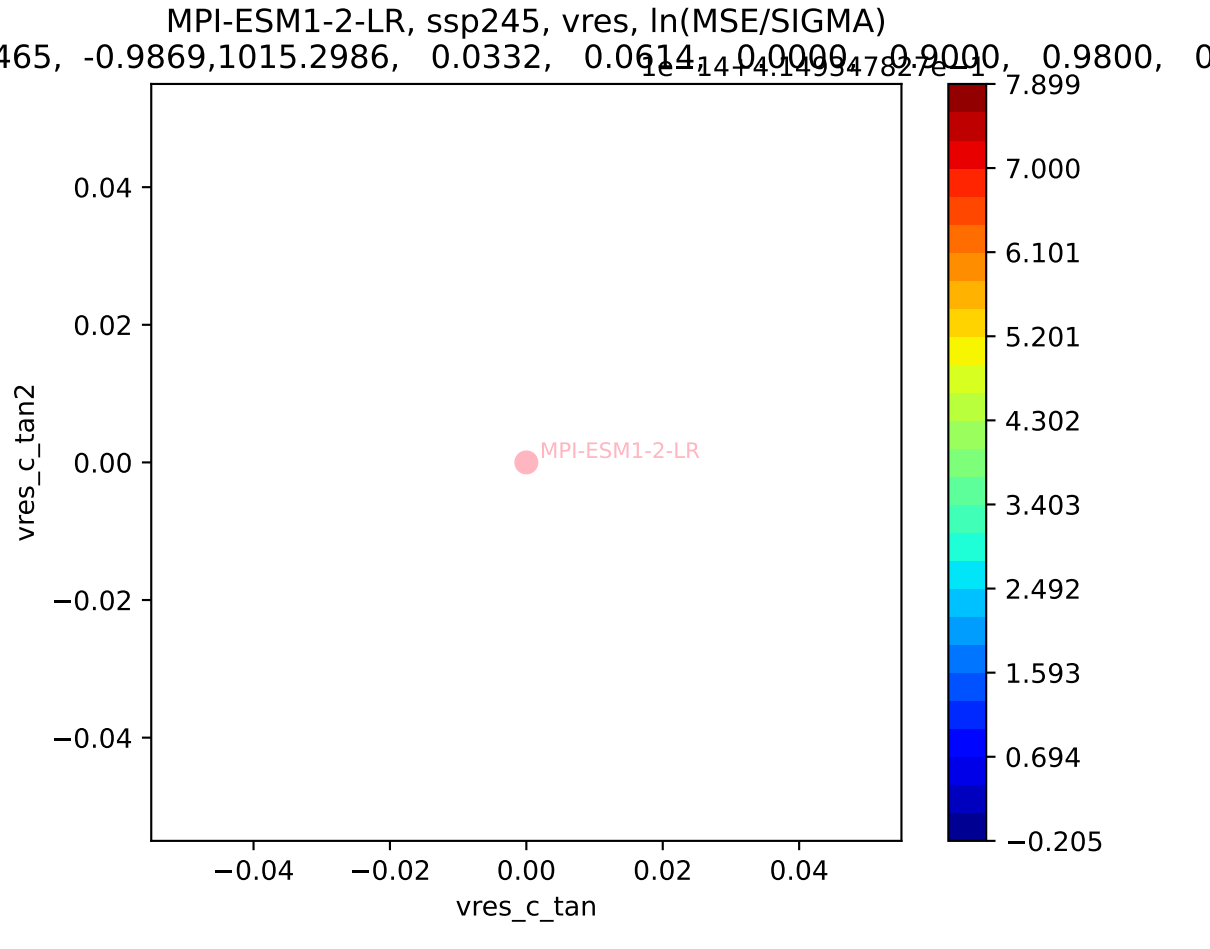

MPI-ESM1-2-LR, ssp245, vres
ESM
Fit
vres
c_atm

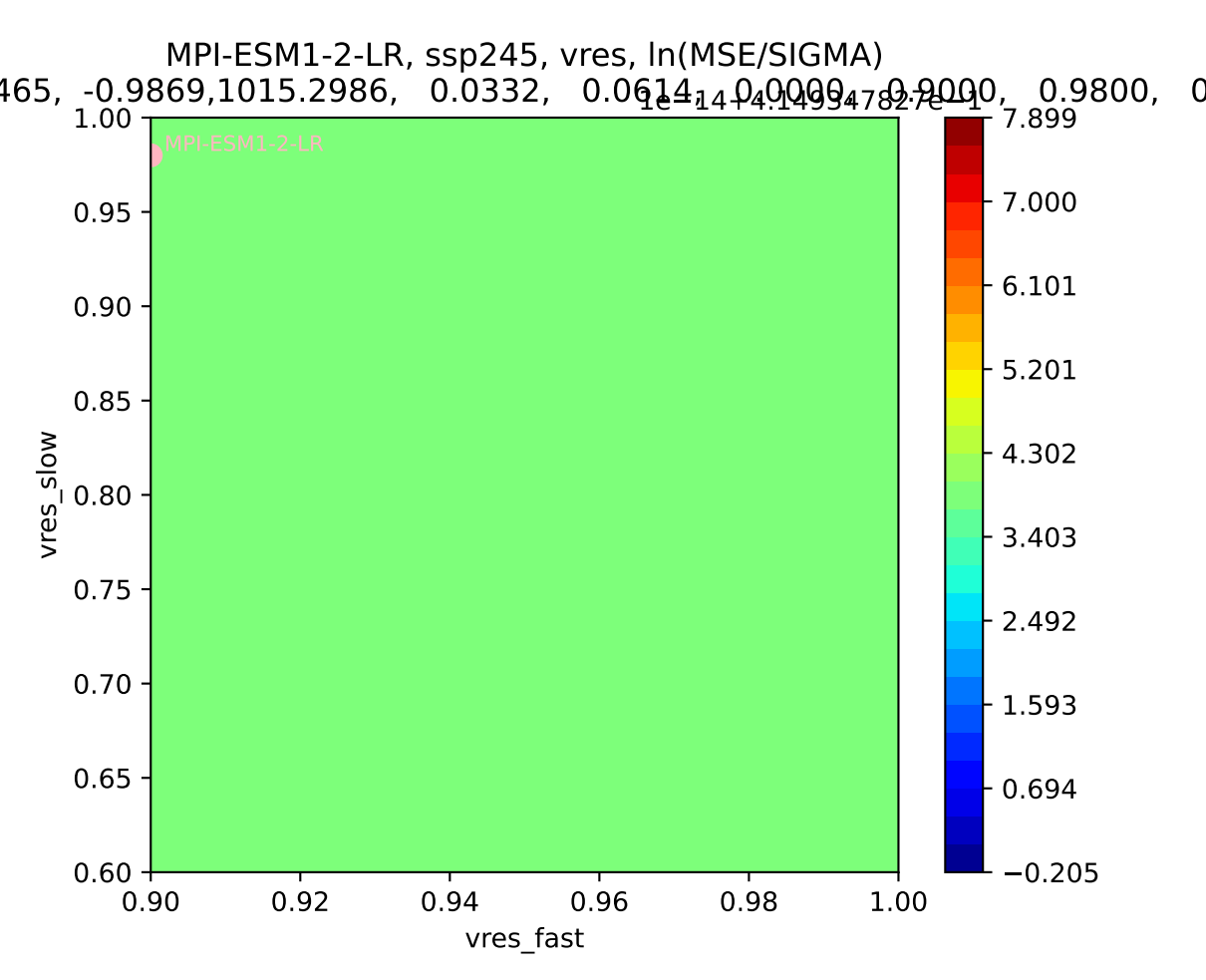

MPI-ESM1-2-LR, ssp245, vres
ESM-Fit
vres, ESM - FIT
c_atm

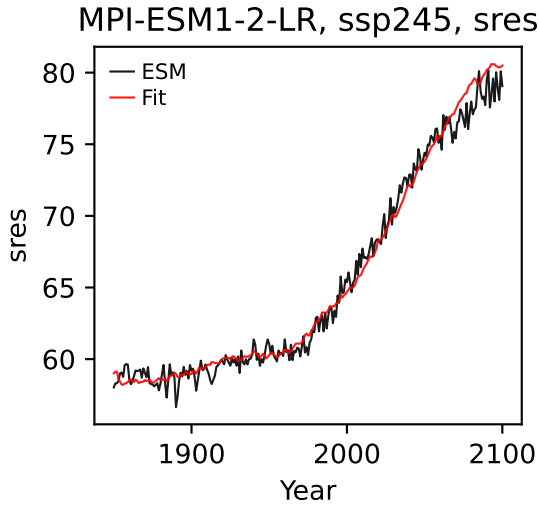

MPI-ESM1-2-LR, ssp245, vres, ln(MSE/SIGMA)
465, -0.9869,1015.2986, 0.0332, 0.0614, 0.0000, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8
0.9

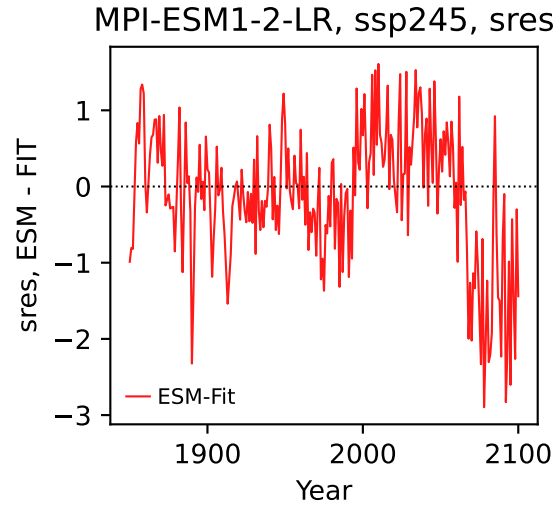

MPI-ESM1-2-LR, ssp245, vres, ln(MSE/SIGMA)
465, -0.9869,1015.2986, 0.0332, 0.0614, 0.0000, 0.9000, 0.9800, 0
2000
1750
1500
1250
1000
750
500
250
0
vres_c_half
MPI-ESM1-2-LR
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
vres_c_l
6.0
5.2
4.4
3.6
2.8
2.0
1.2
0.4

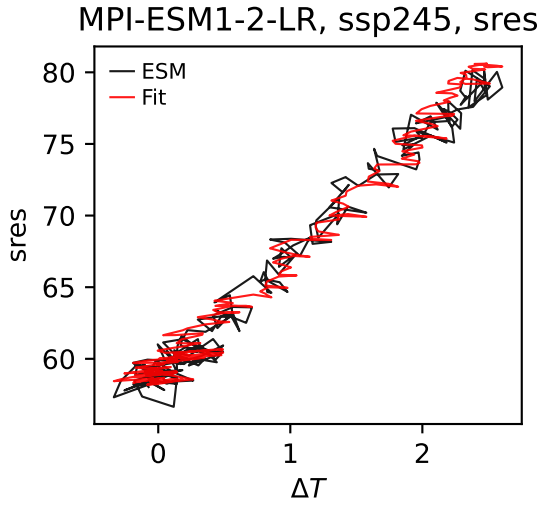

MPI-ESM1-2-LR, ssp245, vres, ln(MSE/SIGMA)
465, -0.9869,1015.2986, 0.0332, 0.0614, 0.0000, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2

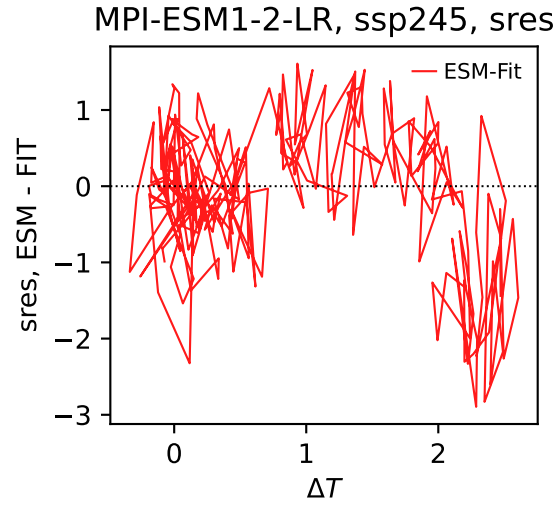

MPI-ESM1-2-LR, ssp245, vres, ln(MSE/SIGMA)
465, -0.9869,1015.2986, 0.0332, 0.0614, 0.0000, 0.9000, 0.9800, 0
1e−14+4.1494782e−1
MPI-ESM1-2-LR
vres_c_tan2
vres_c_tan
0.04
0.02
0.00
−0.02
−0.04
7.899
7.000
6.101
5.201
4.302
3.403
2.492
1.593
0.694
−0.205

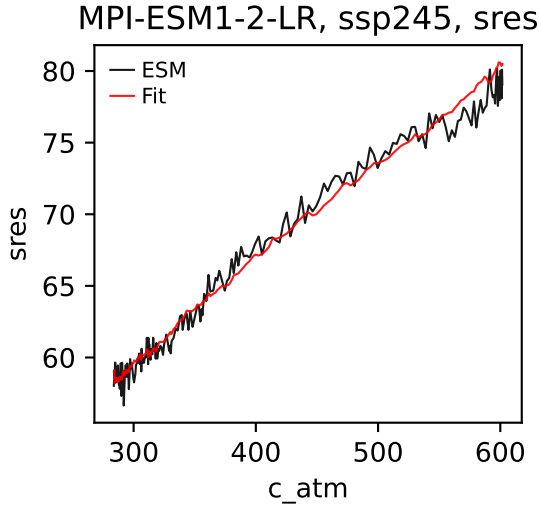

MPI-ESM1-2-LR, ssp245, vres, ln(MSE/SIGMA)
465, -0.9869,1015.2986, 0.0332, 0.0614, 0.0000, 0.9000, 0.9800, 0
1e−14+4.1494782·e−1
MPI-ESM1-2-LR
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
vres_slow
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast
7.899
7.000
6.101
5.201
4.302
3.403
2.492
1.593
0.694
−0.205

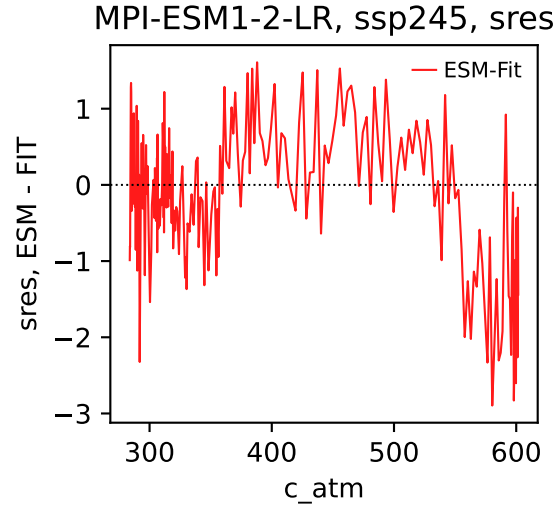

MPI-ESM1-2-LR, ssp245, sres
ESM
Fit
sres
Year

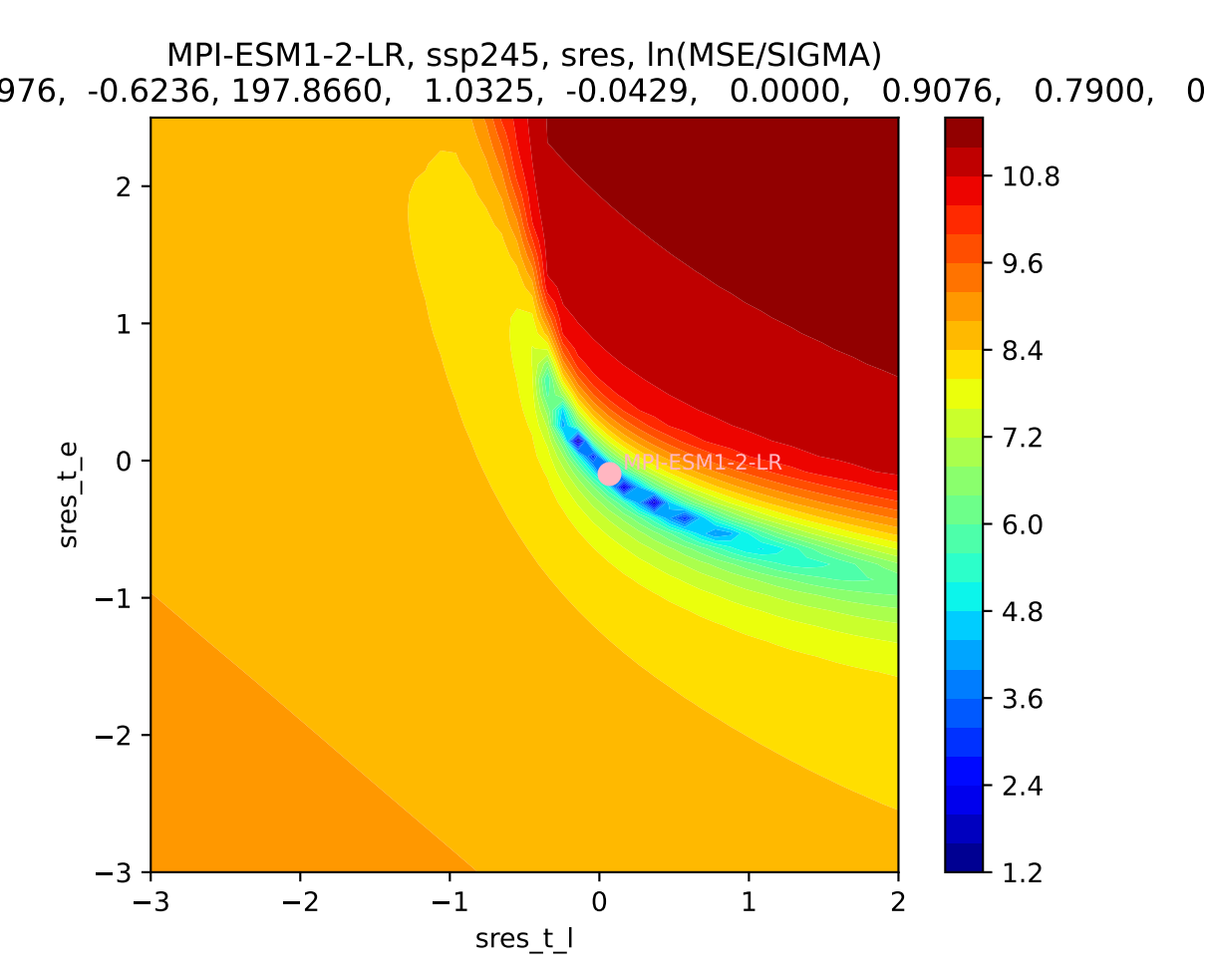

MPI-ESM1-2-LR, ssp245, sres
ESM-Fit
sres, ESM - FIT
Year

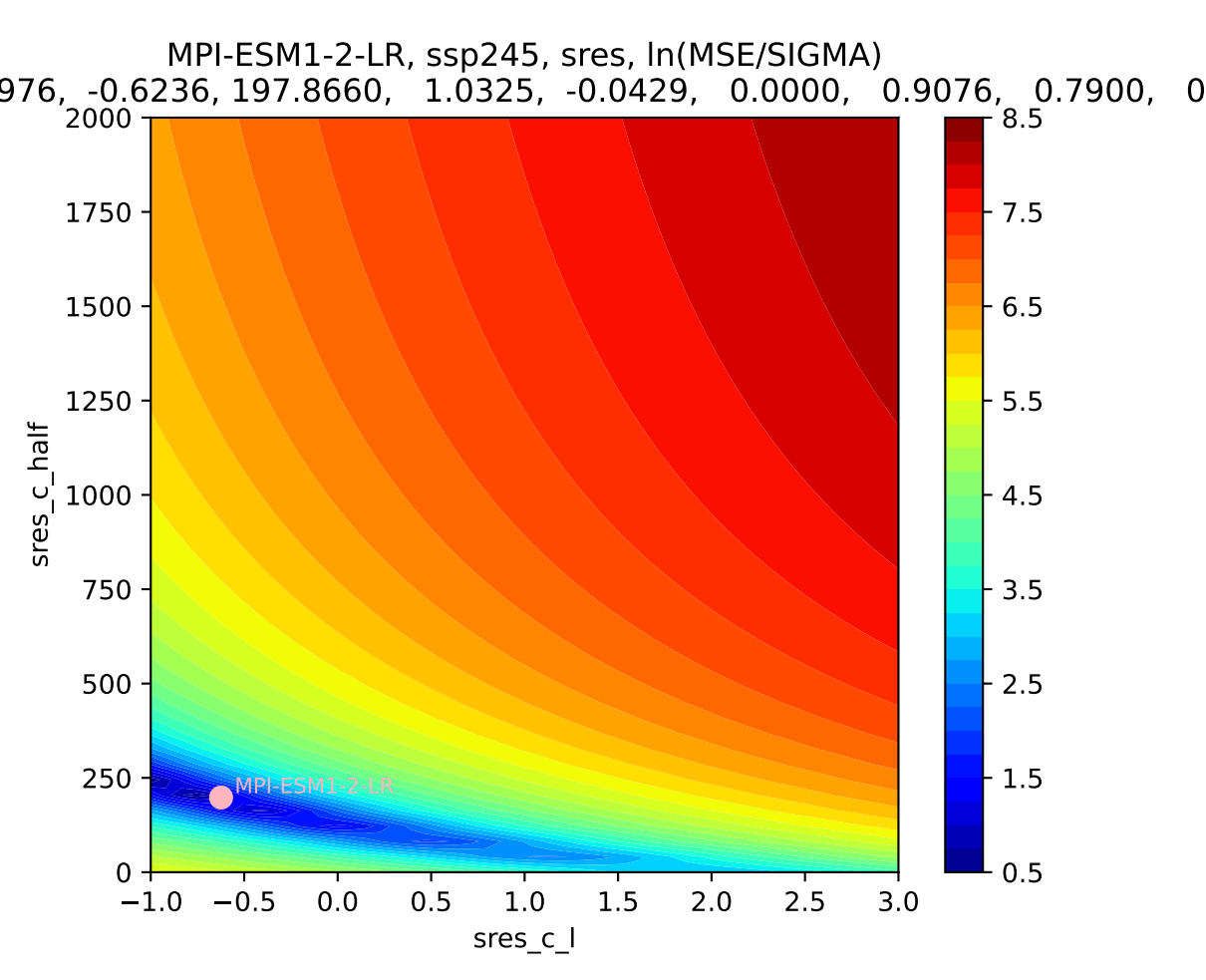

MPI-ESM1-2-LR, ssp245, sres
ESM
Fit
sres
ΔT

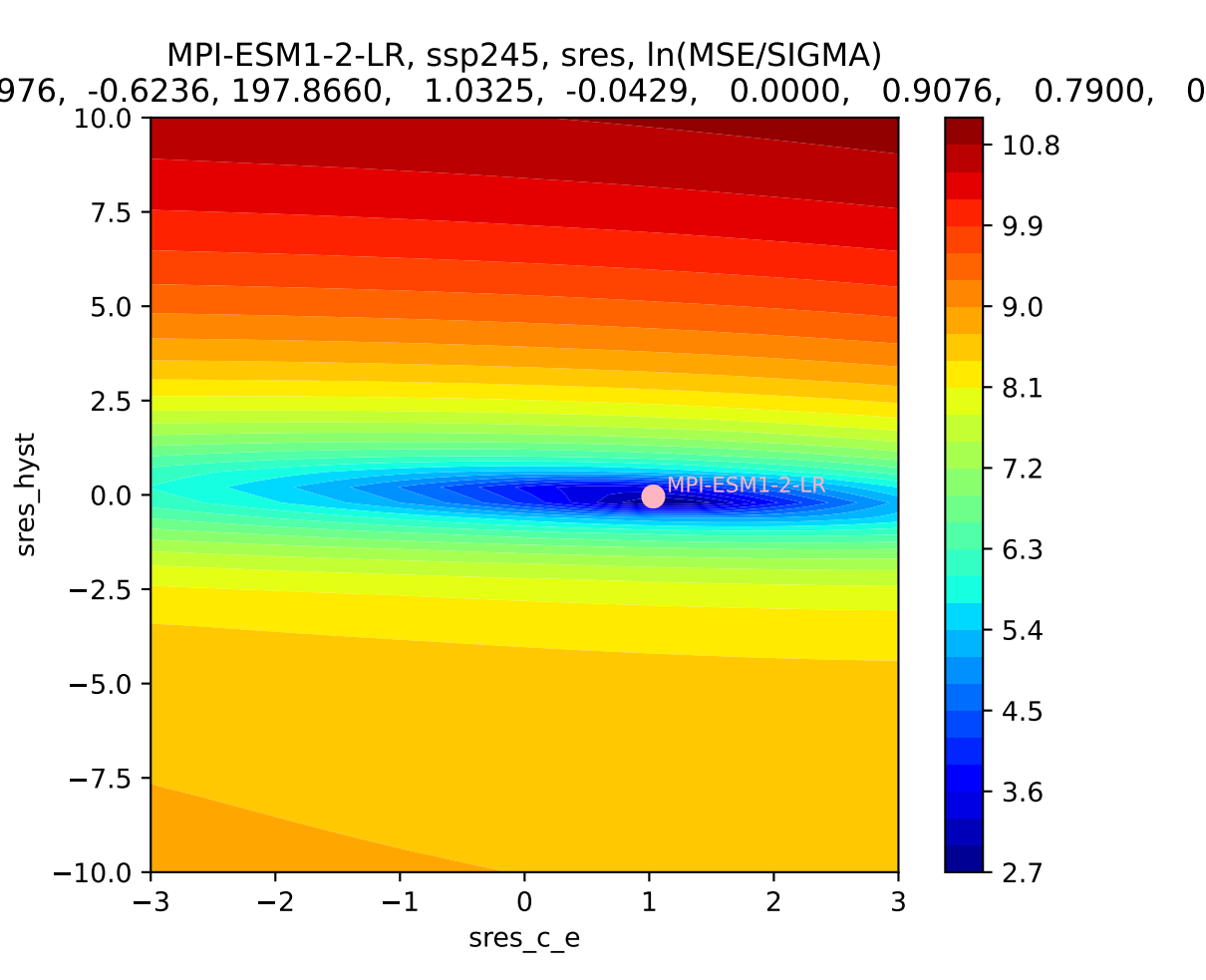

MPI-ESM1-2-LR, ssp245, sres
ESM-Fit
sres, ESM - FIT
ΔT

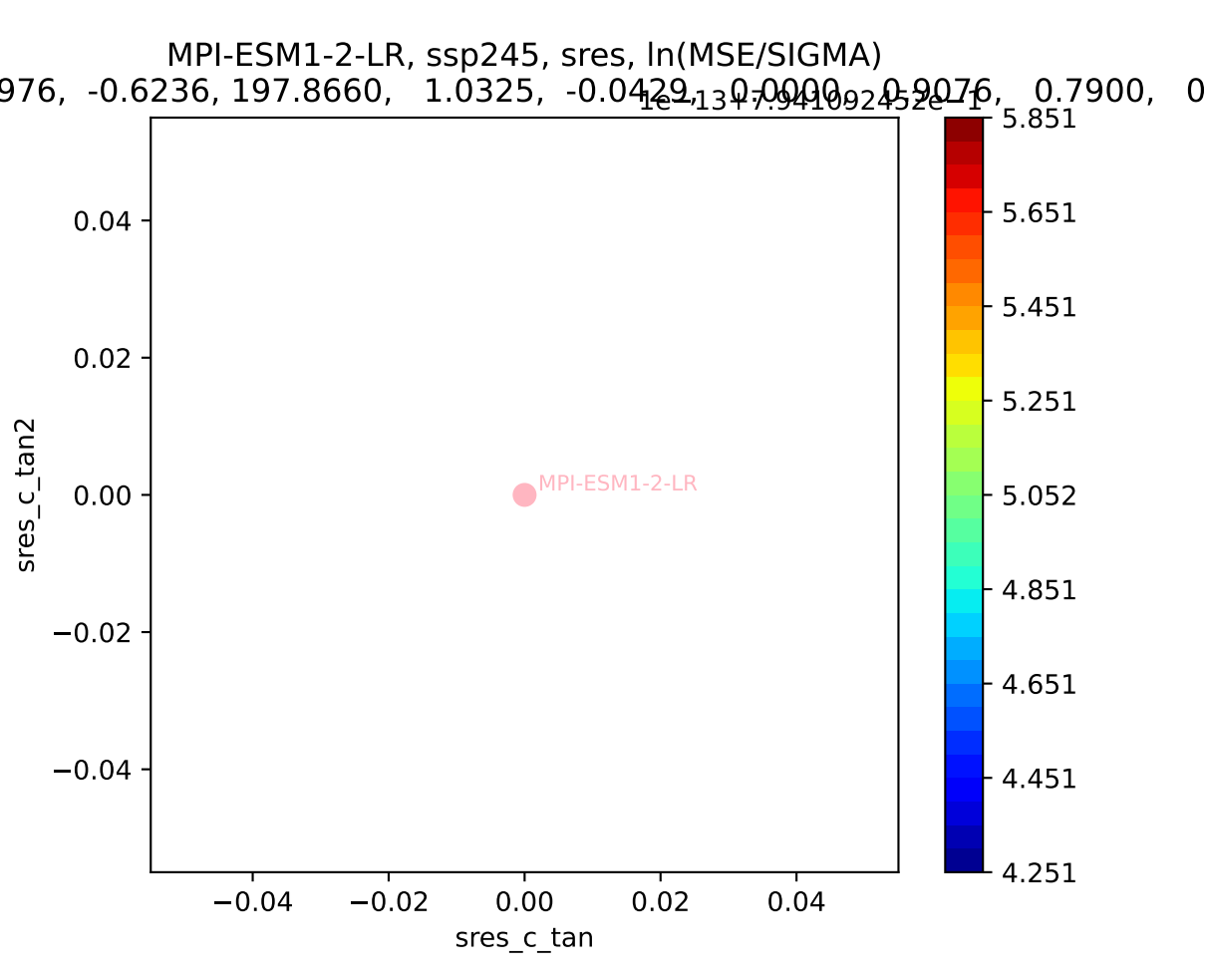

MPI-ESM1-2-LR, ssp245, sres
ESM
Fit
sres
c_atm

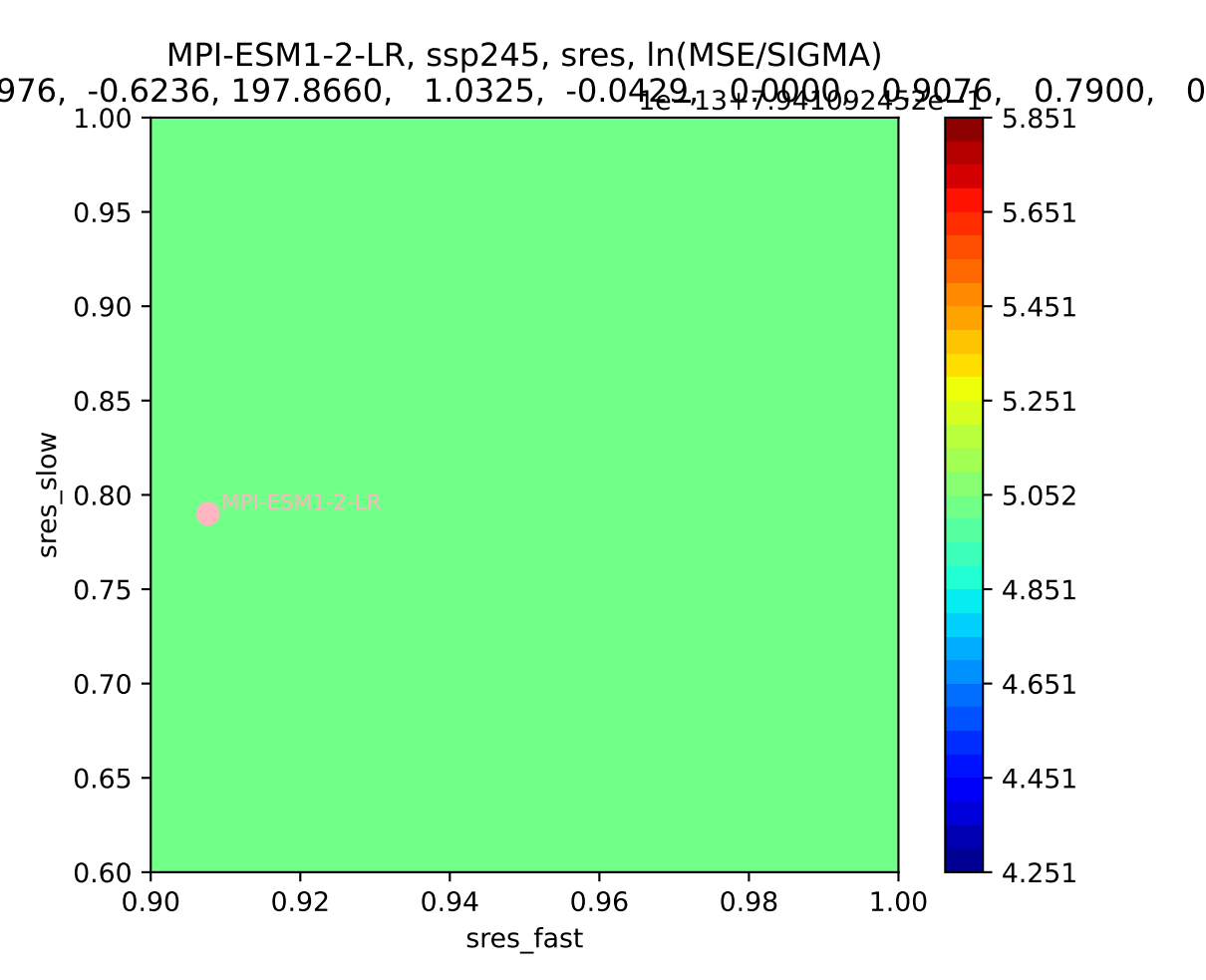

MPI-ESM1-2-LR, ssp245, sres
ESM-Fit
sres, ESM - FIT
c_atm

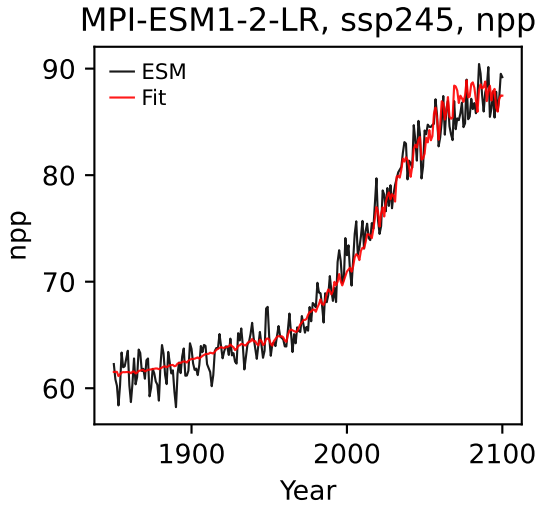

MPI-ESM1-2-LR, ssp245, sres, ln(MSE/SIGMA)
976, -0.6236, 197.8660, 1.0325, -0.0429, 0.0000, 0.9076, 0.7900, 0
MPI-ESM1-2-LR
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

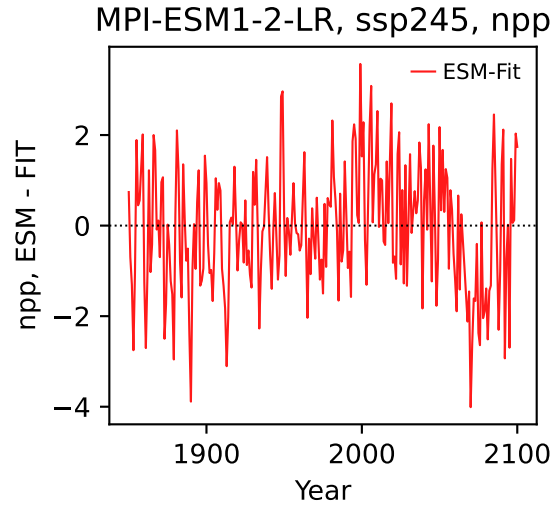

MPI-ESM1-2-LR, ssp245, sres, ln(MSE/SIGMA)
976, -0.6236, 197.8660, 1.0325, -0.0429, 0.0000, 0.9076, 0.7900, 0
2000
1750
1500
1250
1000
750
500
250
0
sres_c_half
MPI-ESM1-2-LR
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
sres_c_l
8.5
7.5
6.5
5.5
4.5
3.5
2.5
1.5
0.5

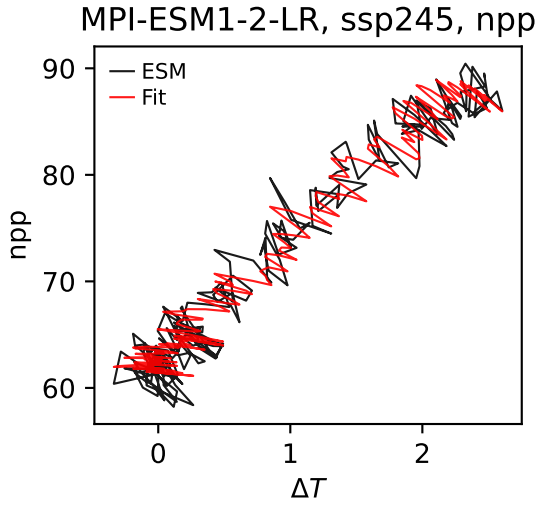

MPI-ESM1-2-LR, ssp245, sres, ln(MSE/SIGMA)
976, -0.6236, 197.8660, 1.0325, -0.0429, 0.0000, 0.9076, 0.7900, 0
MPI-ESM1-2-LR
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7

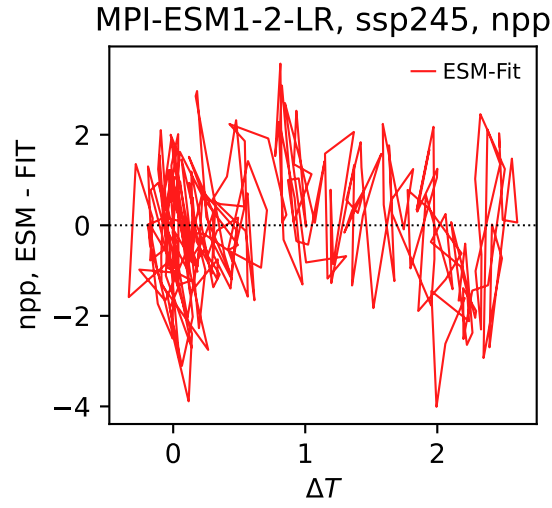

MPI-ESM1-2-LR, ssp245, sres, ln(MSE/SIGMA)
976, -0.6236, 197.8660, 1.0325, -0.0429, 0.0000, 0.9076, 0.7900, 0
1e−13+7.9410924 52e−1
MPI-ESM1-2-LR
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
5.851
5.651
5.451
5.251
5.052
4.851
4.651
4.451
4.251

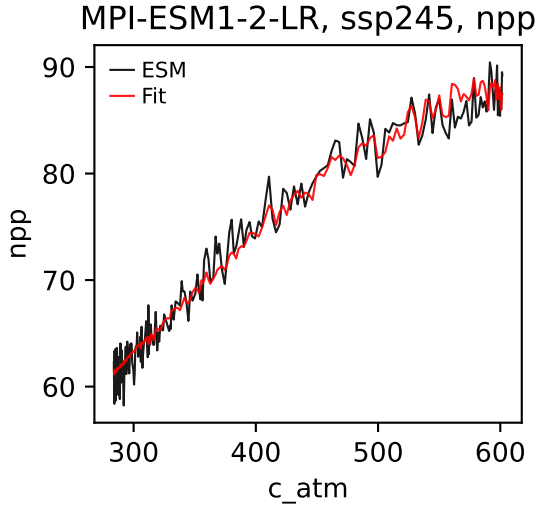

MPI-ESM1-2-LR, ssp245, sres, ln(MSE/SIGMA)
976, -0.6236, 197.8660, 1.0325, -0.0429, 0.0000, 0.9076, 0.7900, 0
1e−13+7.9410924 52e−1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
MPI-ESM1-2-LR
0.90
0.92
0.94
0.96
0.98
1.00
sres_fast
5.851
5.651
5.451
5.251
5.052
4.851
4.651
4.451
4.251

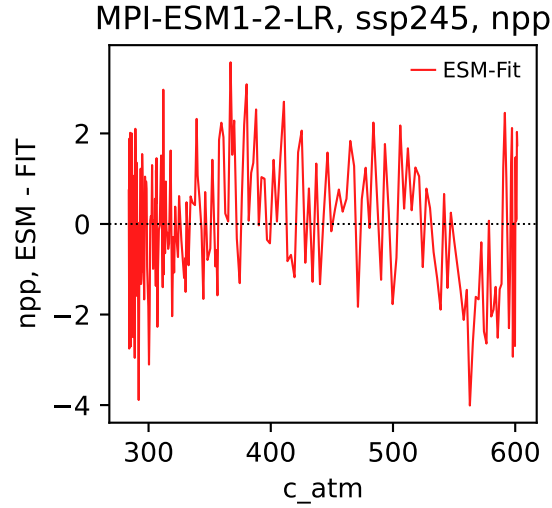

MPI-ESM1-2-LR, ssp245, npp
ESM
Fit
npp
Year

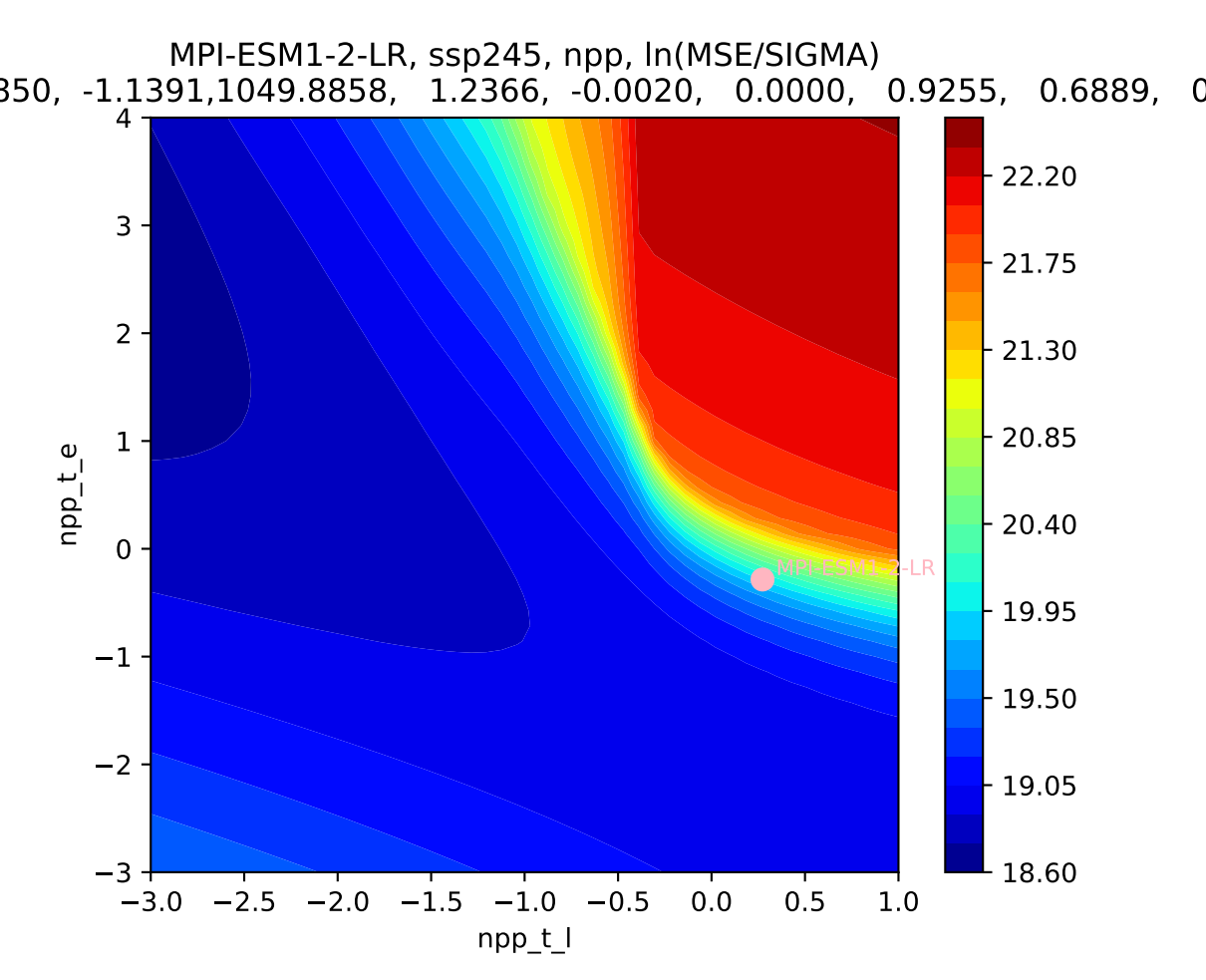

MPI-ESM1-2-LR, ssp245, npp
ESM-Fit
npp, ESM - FIT
Year

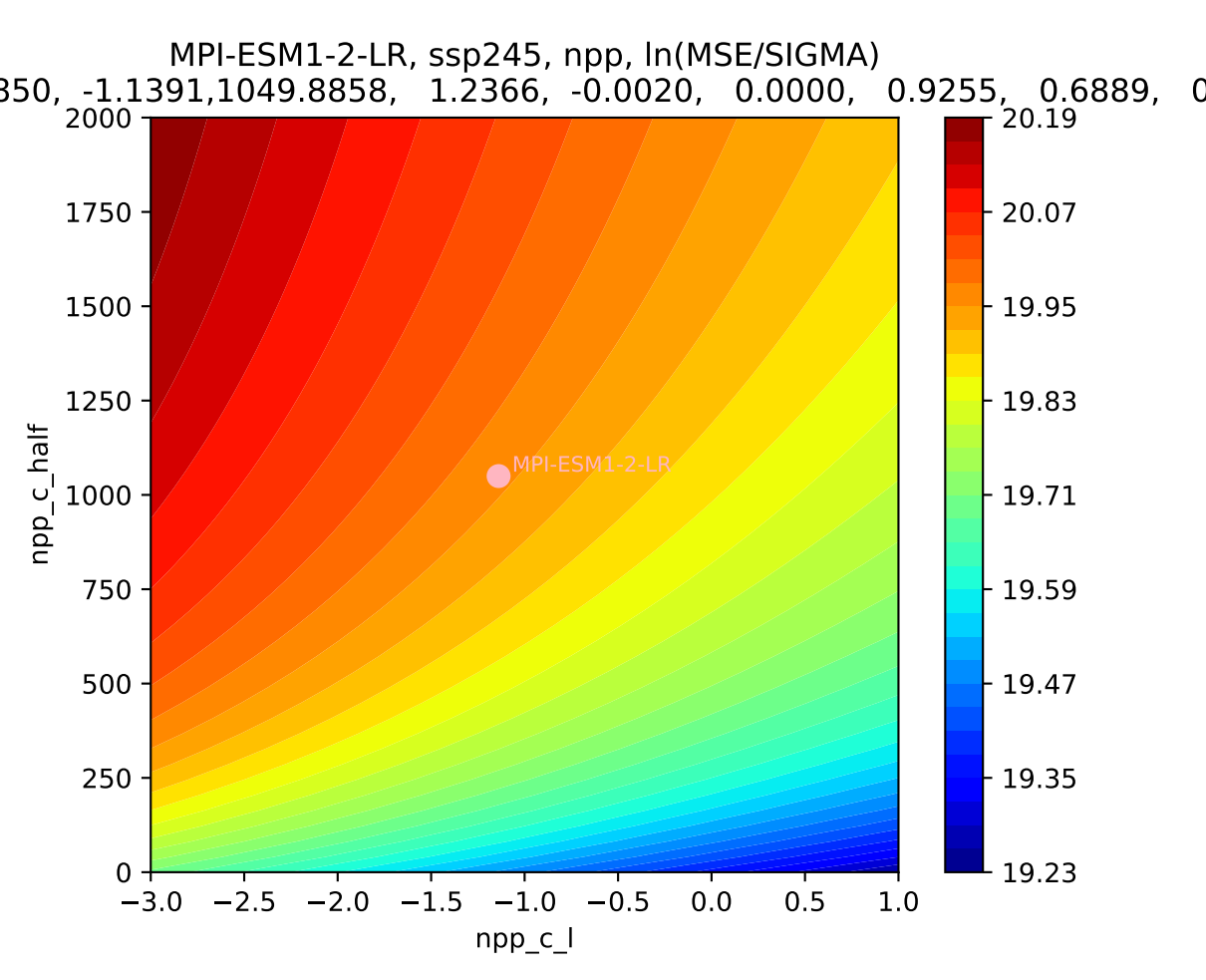

MPI-ESM1-2-LR, ssp245, npp
ESM
Fit
npp
ΔT

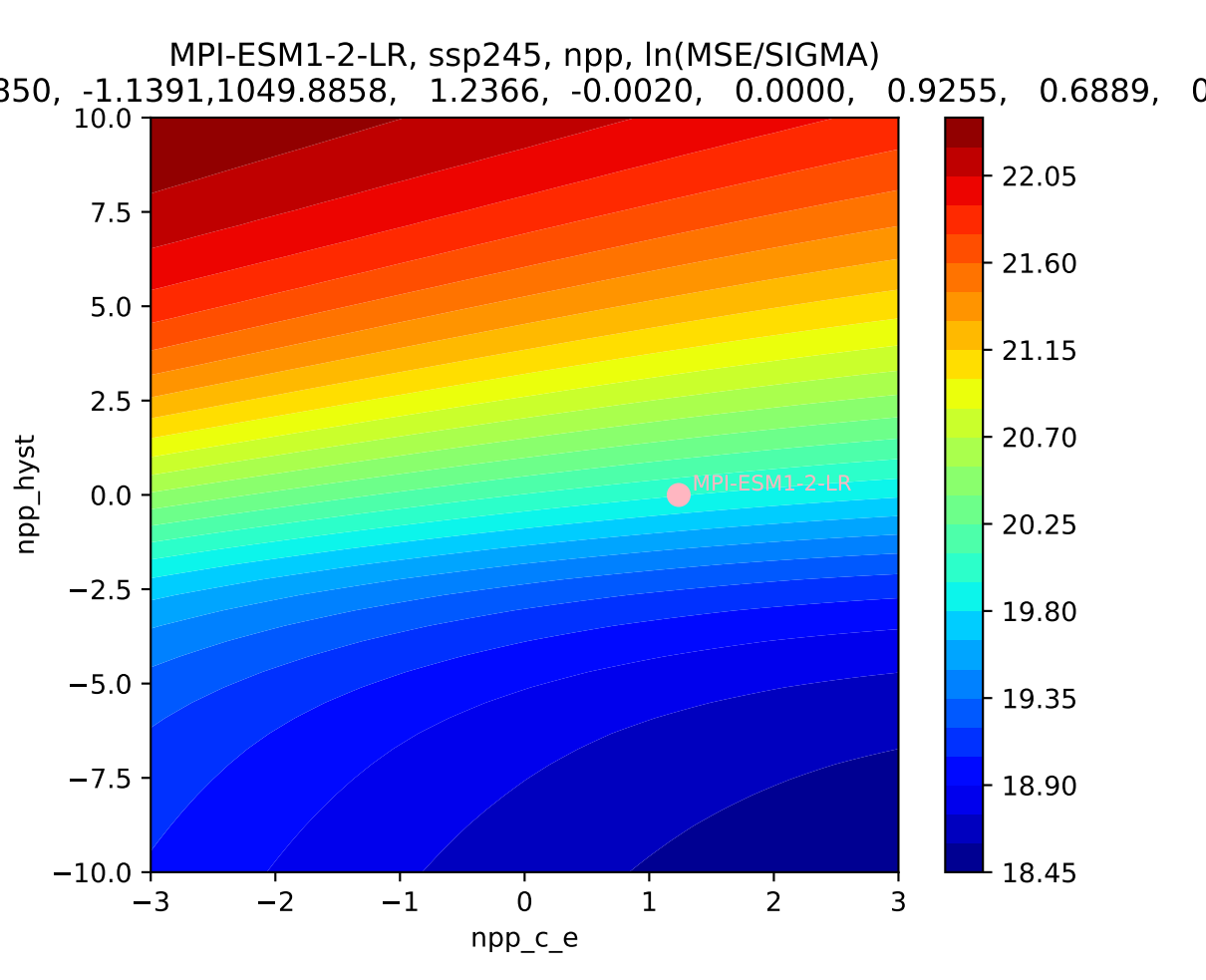

MPI-ESM1-2-LR, ssp245, npp
ESM-Fit
npp, ESM - FIT
ΔT

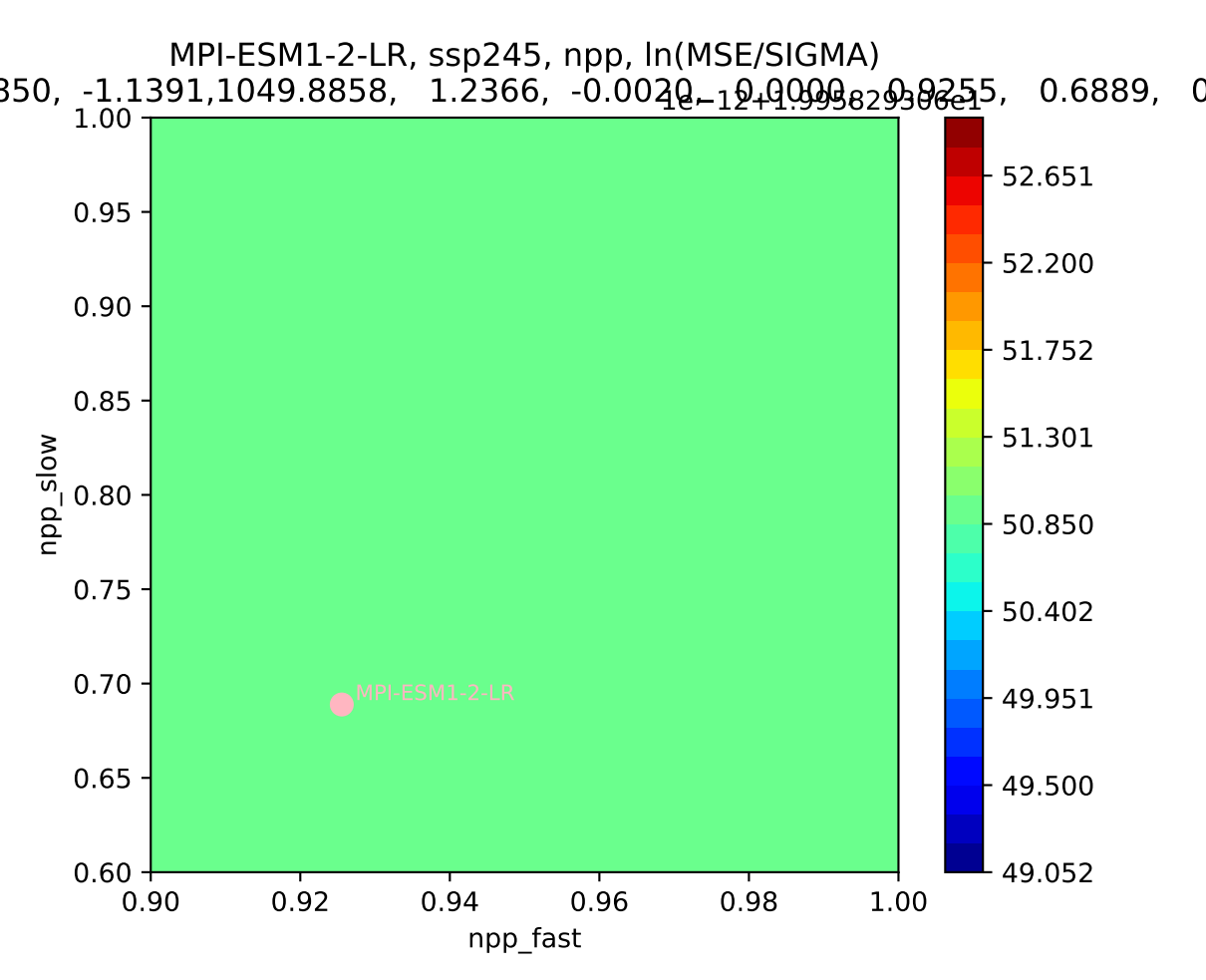

MPI-ESM1-2-LR, ssp245, npp
ESM
Fit
npp
c_atm

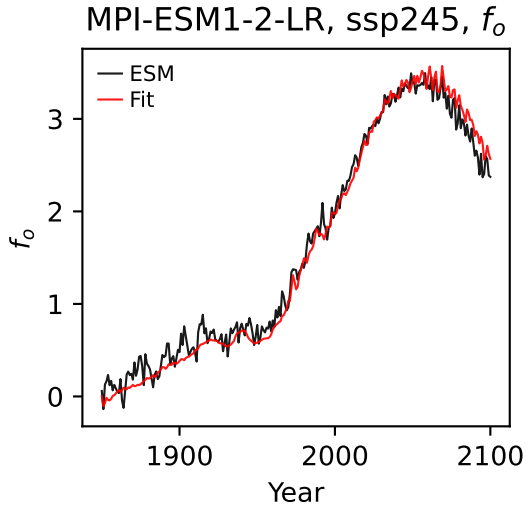

MPI-ESM1-2-LR, ssp245, npp
ESM-Fit
npp, ESM - FIT
c_atm

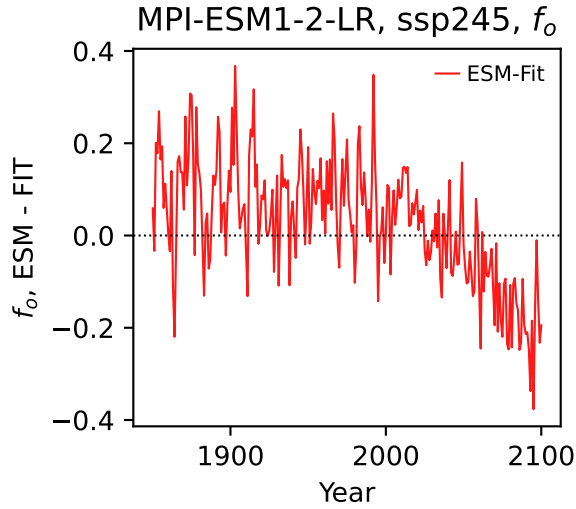

MPI-ESM1-2-LR, ssp245, npp, ln(MSE/SIGMA)
350, -1.1391,1049.8858, 1.2366, -0.0020, 0.0000, 0.9255, 0.6889, 0
MPI-ESM1-2-LR
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05
18.60

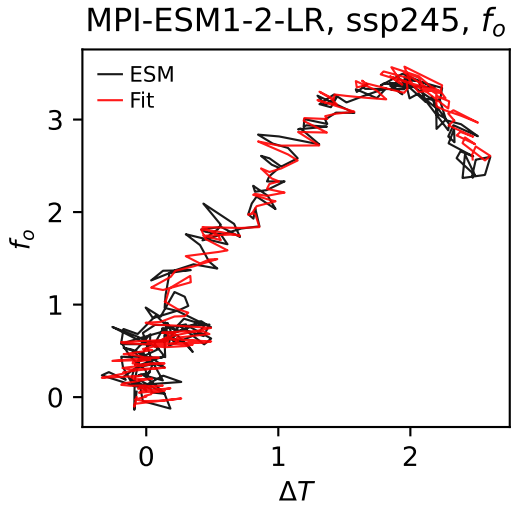

MPI-ESM1-2-LR, ssp245, npp, ln(MSE/SIGMA)
350, -1.1391,1049.8858, 1.2366, -0.0020, 0.0000, 0.9255, 0.6889, 0
MPI-ESM1-2-LR
npp_c_half
npp_c_l
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
20.19
20.07
19.95
19.83
19.71
19.59
19.47
19.35
19.23

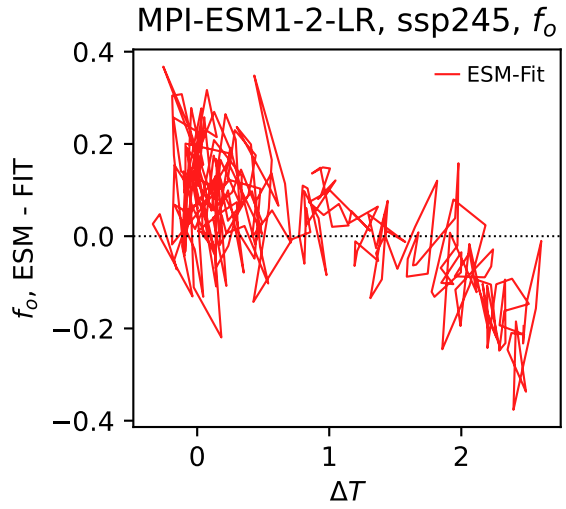

MPI-ESM1-2-LR, ssp245, npp, ln(MSE/SIGMA)
350, -1.1391,1049.8858, 1.2366, -0.0020, 0.0000, 0.9255, 0.6889, 0
MPI-ESM1-2-LR
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.05
21.60
21.15
20.70
20.25
19.80
19.35
18.90
18.45

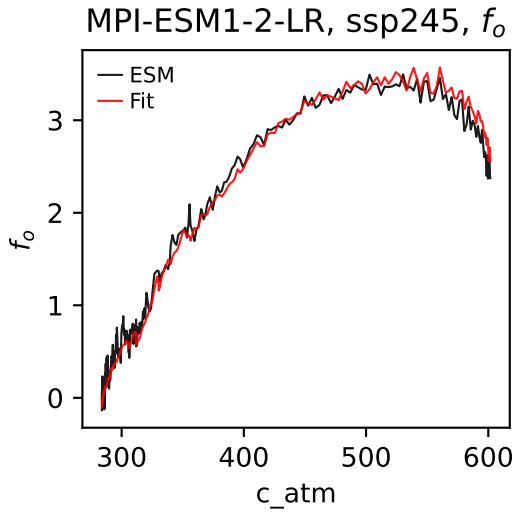

MPI-ESM1-2-LR, ssp245, npp, ln(MSE/SIGMA)
350, -1.1391,1049.8858, 1.2366, -0.0020, 0.0000, 0.9255, 0.6889, 0
1e−12+1.9958293066e1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
MPI-ESM1-2-LR
52.651
52.200
51.752
51.301
50.850
50.402
49.951
49.500
49.052

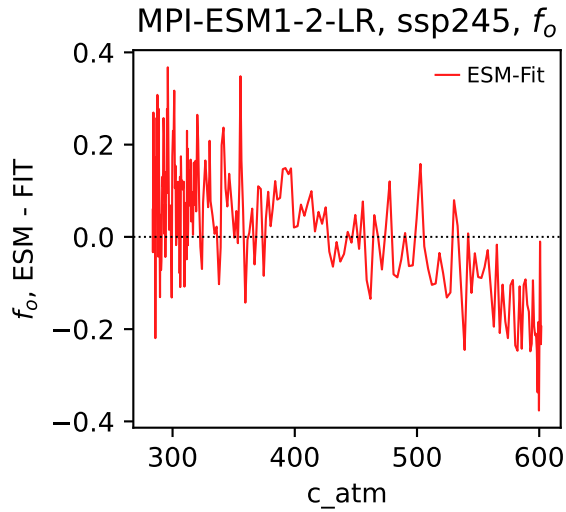

MPI-ESM1-2-LR, ssp245, f_o
ESM
Fit
f_o
Year

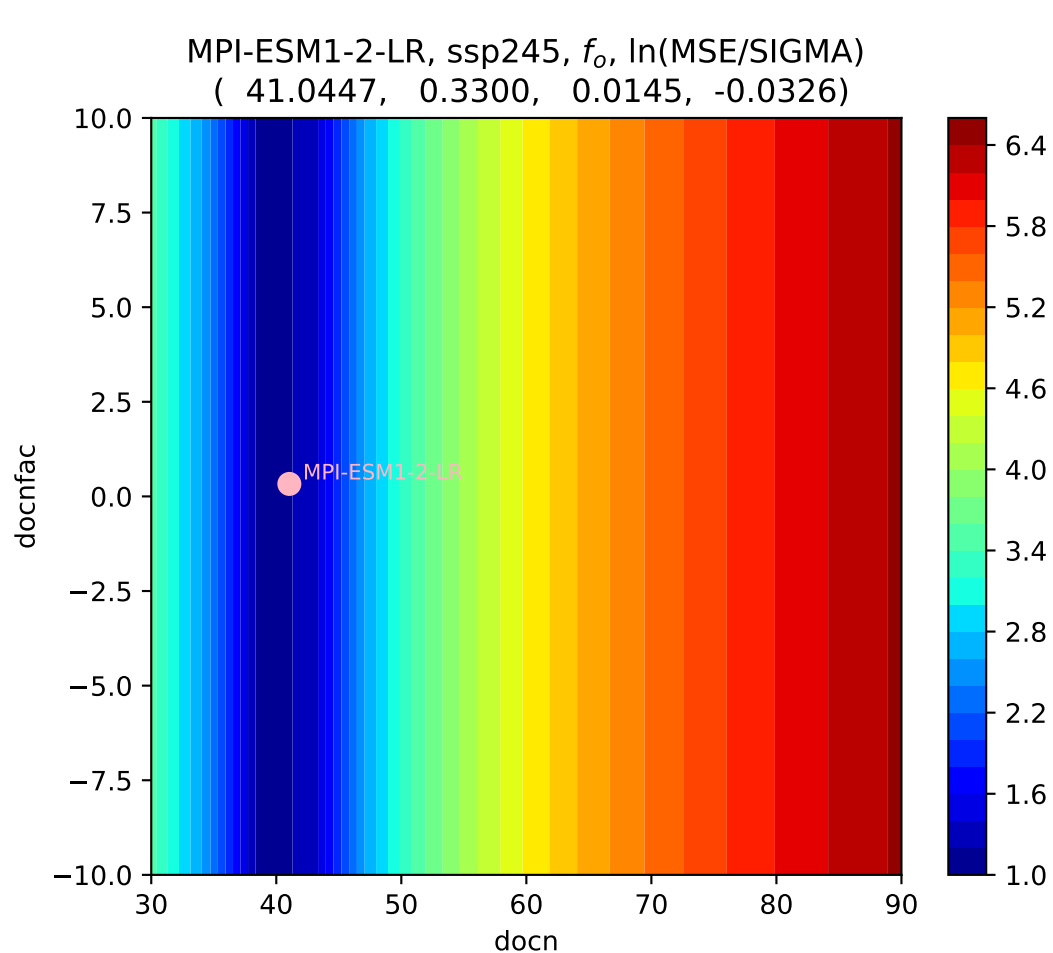

MPI-ESM1-2-LR, ssp245, f_o
ESM-Fit
f_o, ESM - FIT
Year

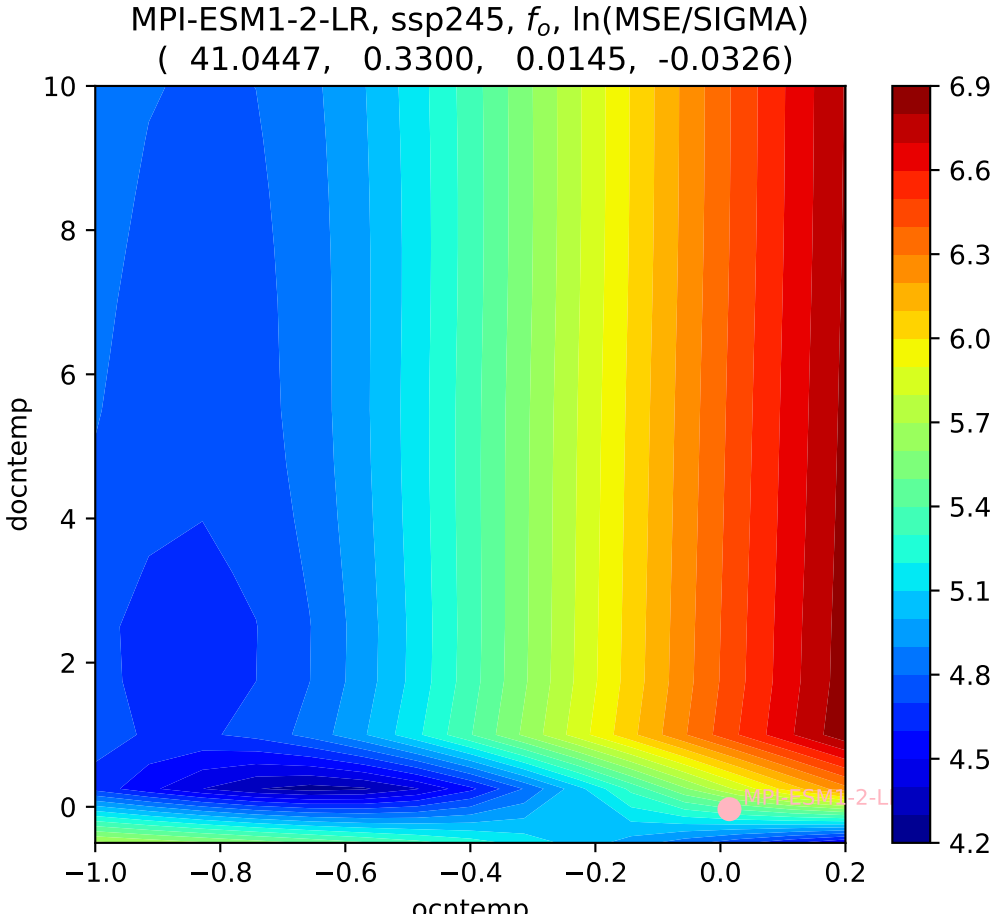

MPI-ESM1-2-LR, ssp245, f_o
ESM
Fit
f_o
ΔT


MPI-ESM1-2-LR, ssp245, f_o
ESM-Fit
f_o, ESM - FIT
ΔT


MPI-ESM1-2-LR, ssp245, f_o
ESM
Fit
f_o
c_atm


MPI-ESM1-2-LR, ssp245, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


MPI-ESM1-2-LR, ssp245, f_o, ln(MSE/SIGMA)
(41.0447, 0.3300, 0.0145, -0.0326)
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
6.4
5.8
5.2
4.6
4.0
3.4
2.8
2.2
1.6
1.0


MPI-ESM1-2-LR, ssp245, f_o, ln(MSE/SIGMA)
(41.0447, 0.3300, 0.0145, -0.0326)
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
6.9
6.6
6.3
6.0
5.7
5.4
5.1
4.8
4.5
4.2