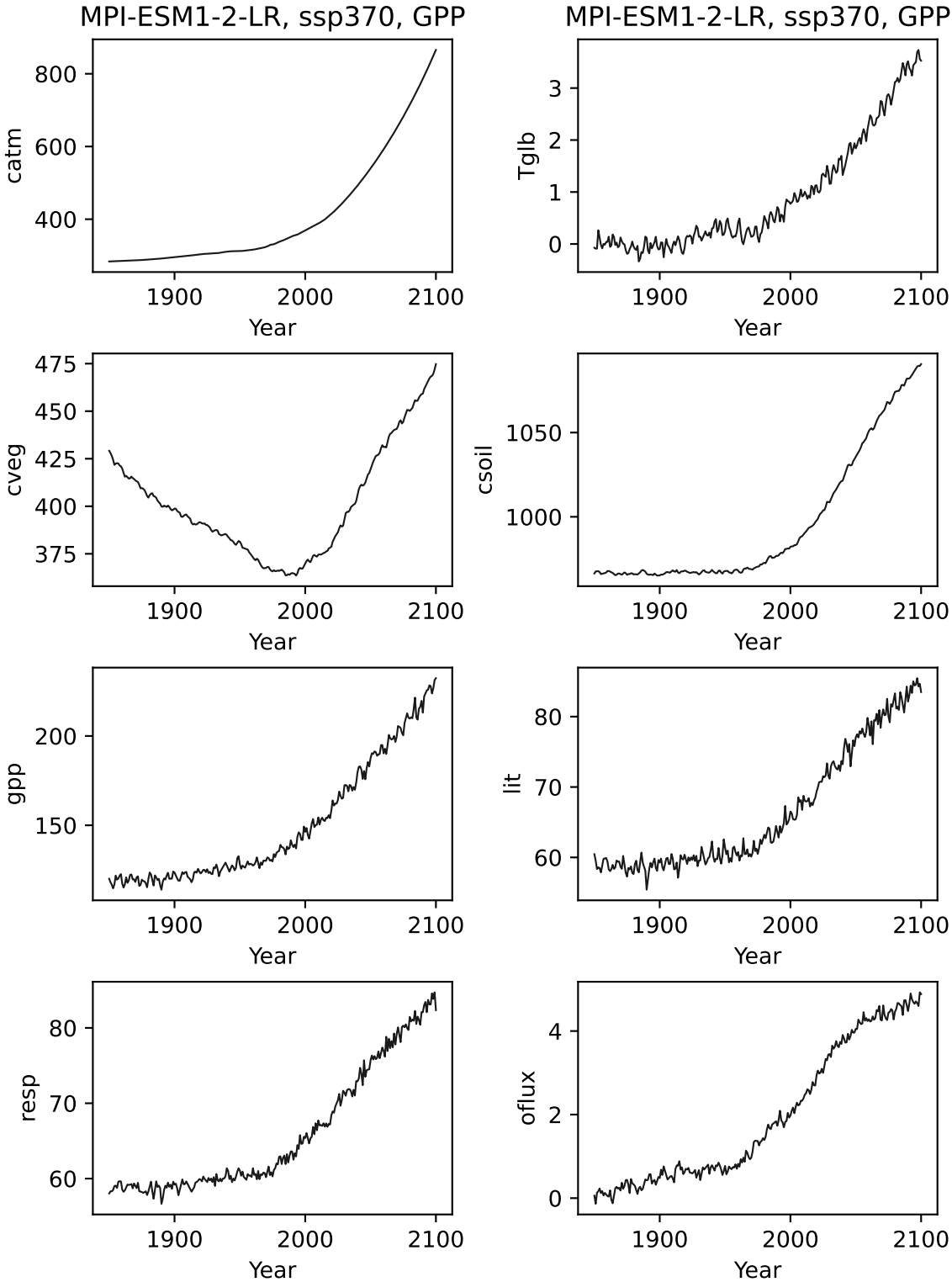
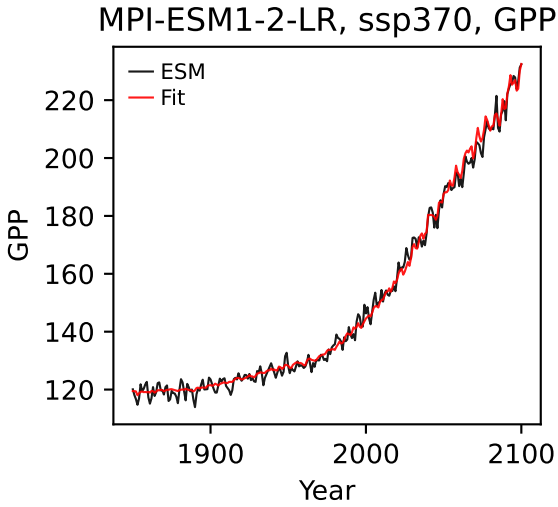
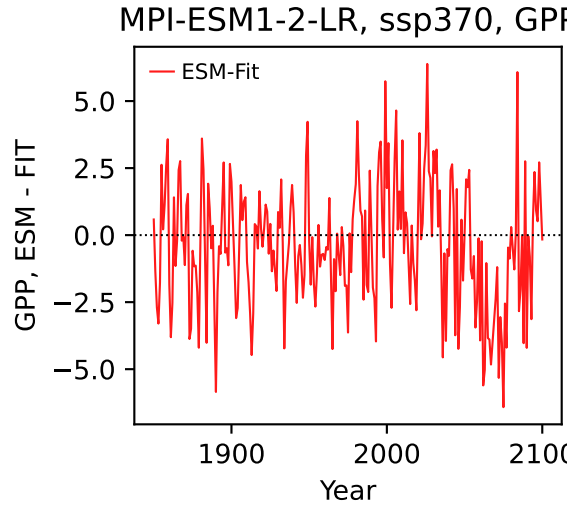
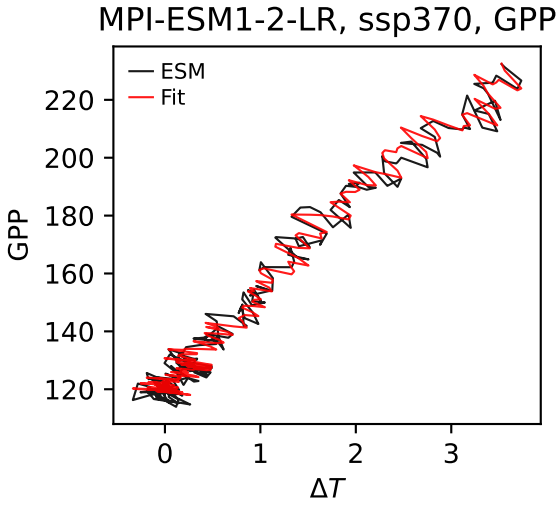
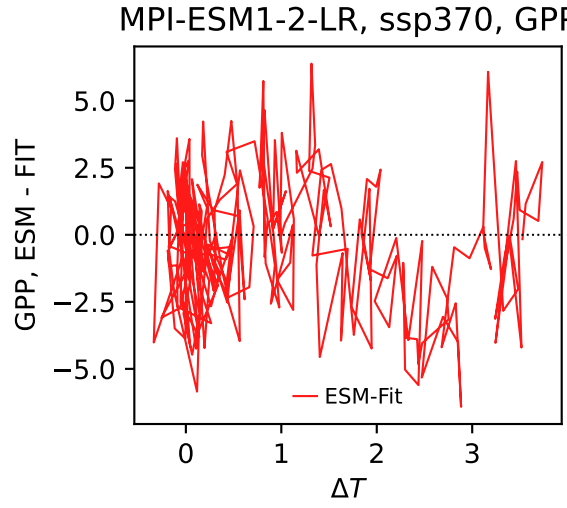
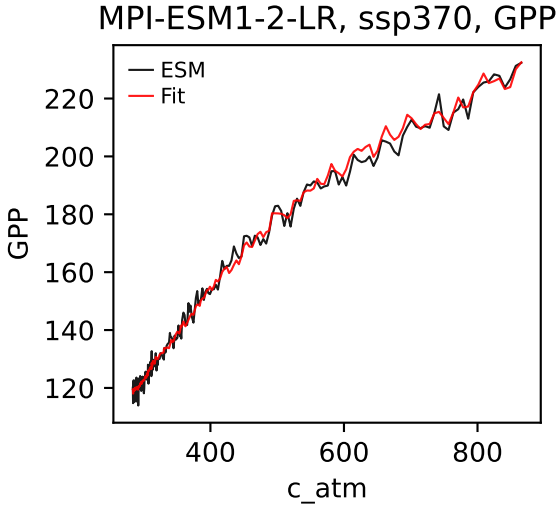

MPI-ESM1-2-LR, ssp370, GPP
catm
Year
MPI-ESM1-2-LR, ssp370, GPP
Tglb
Year
cveg
Year
csoil
Year
gpp
Year
lit
Year
resp
Year
oflux
Year

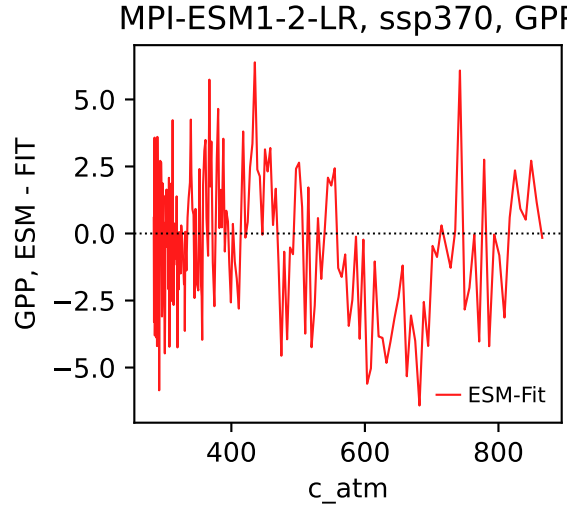

MPI-ESM1-2-LR, ssp370, GPP
ESM
Fit
GPP
Year

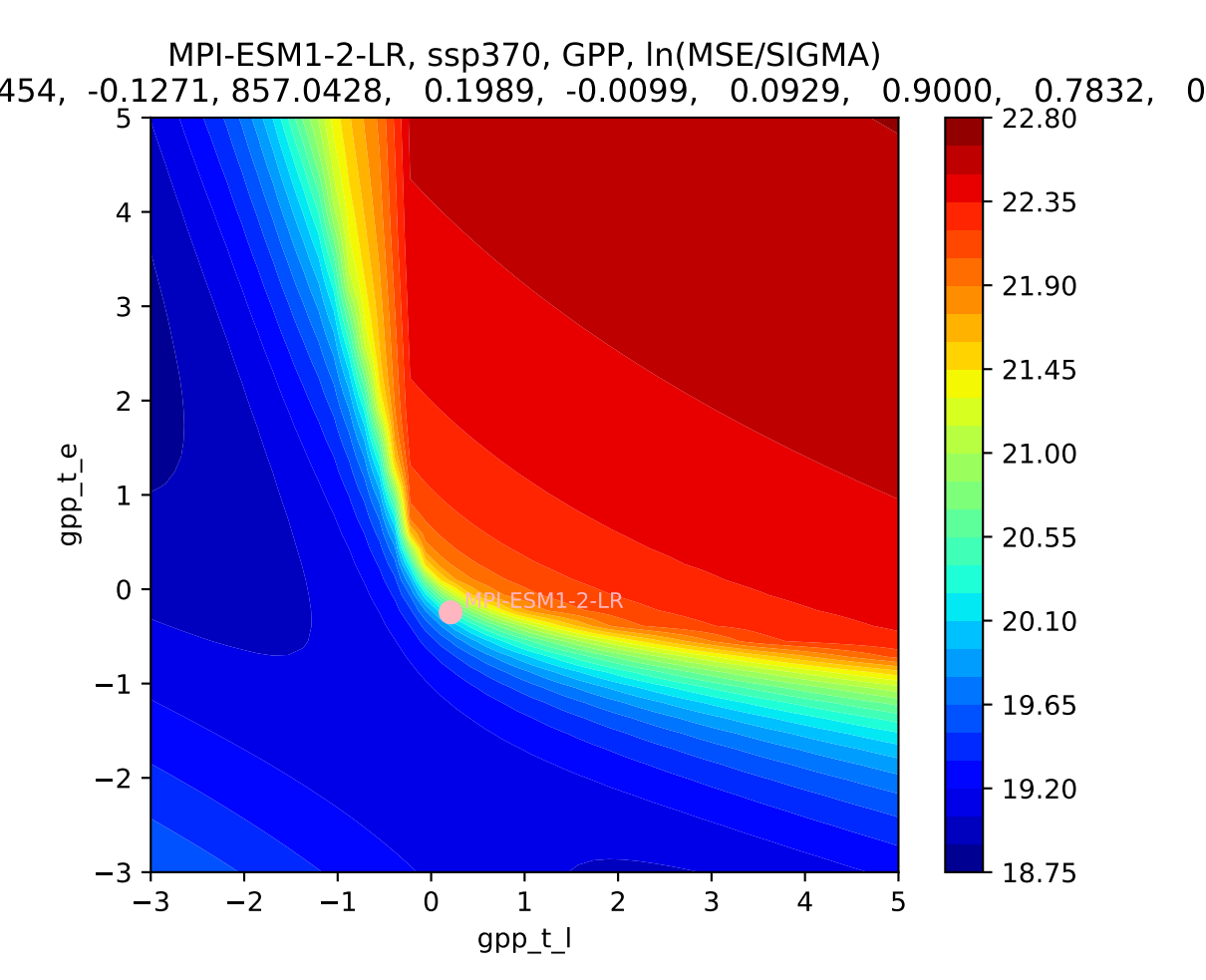

MPI-ESM1-2-LR, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
Year

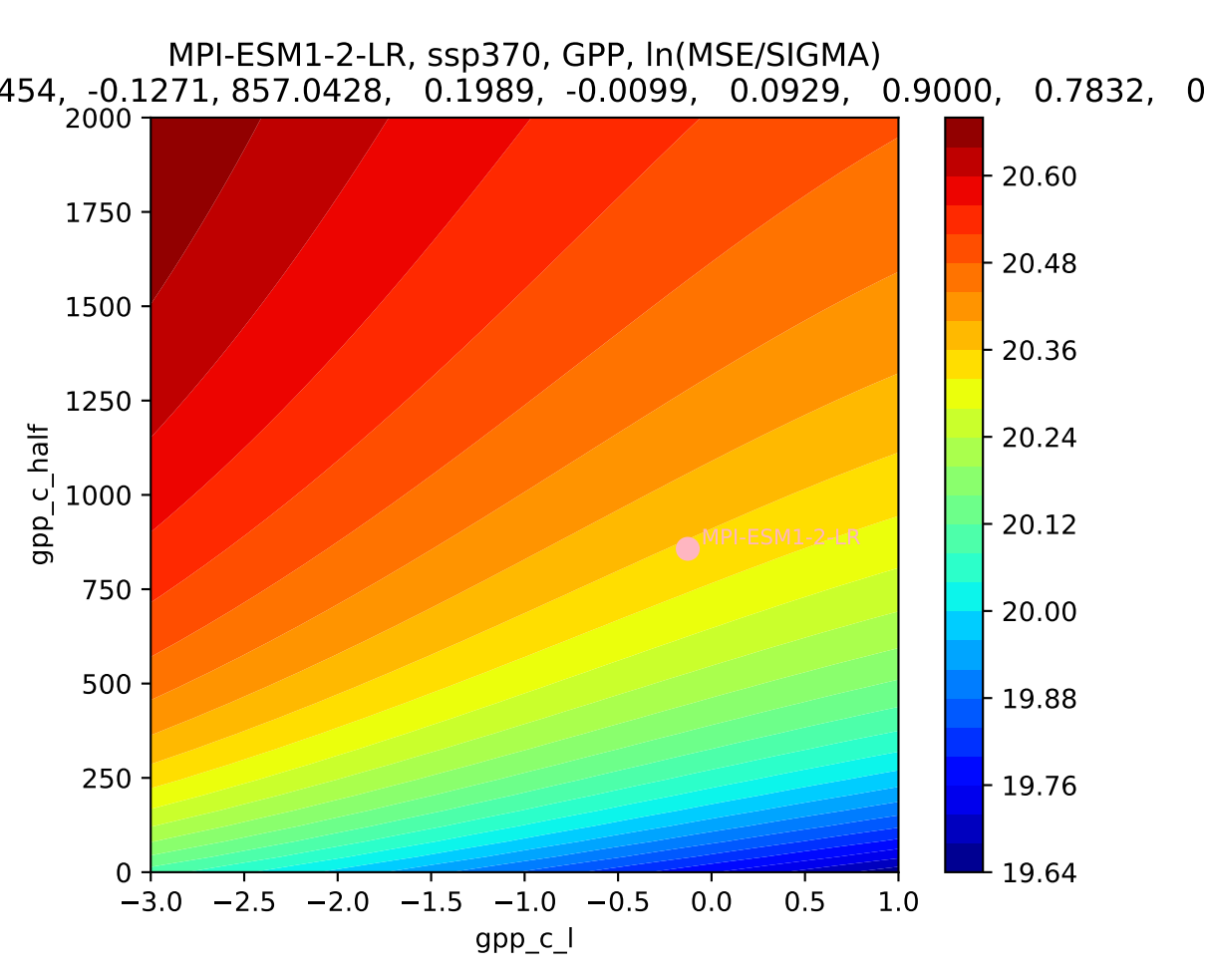

MPI-ESM1-2-LR, ssp370, GPP
ESM
Fit
GPP
ΔT

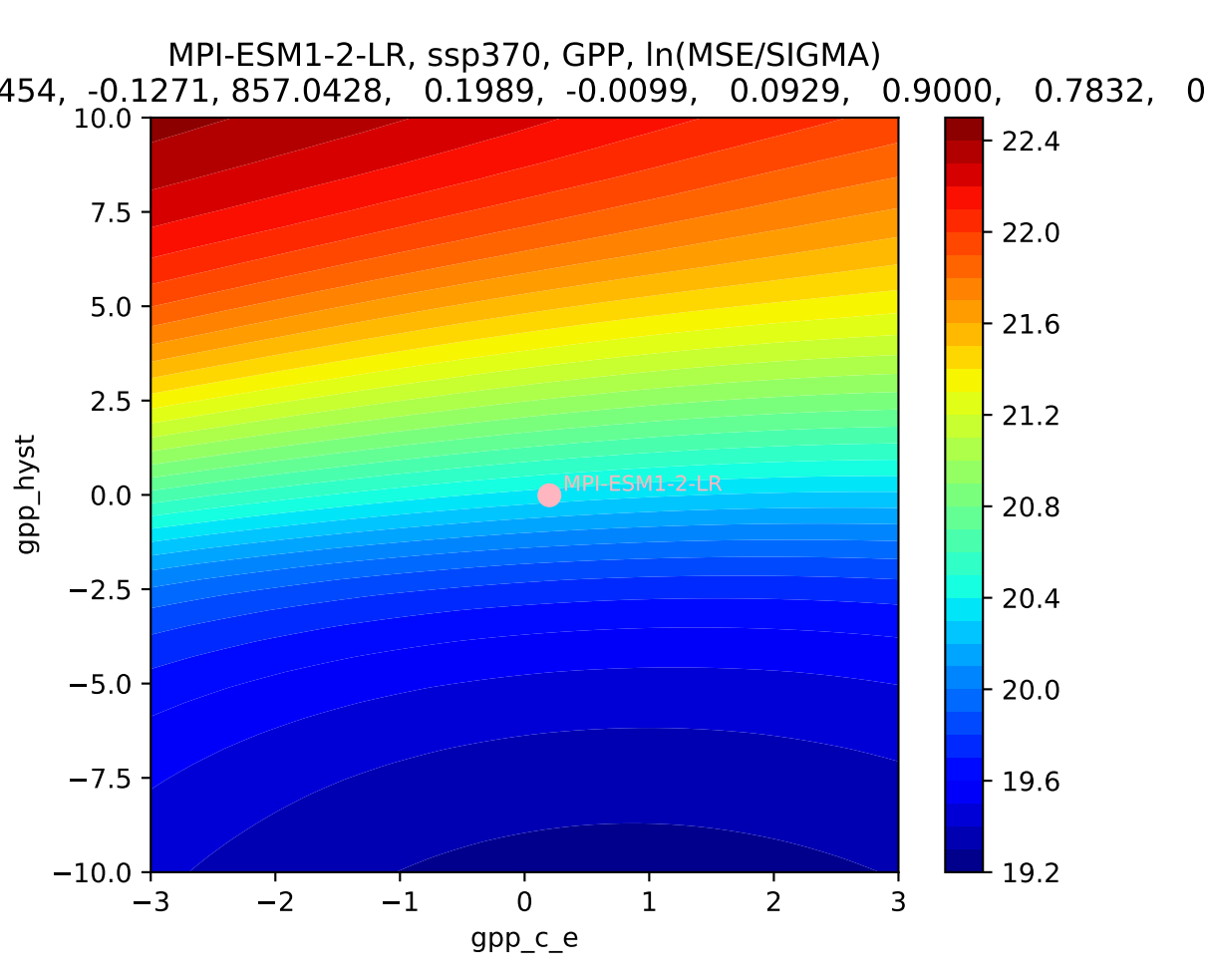

MPI-ESM1-2-LR, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

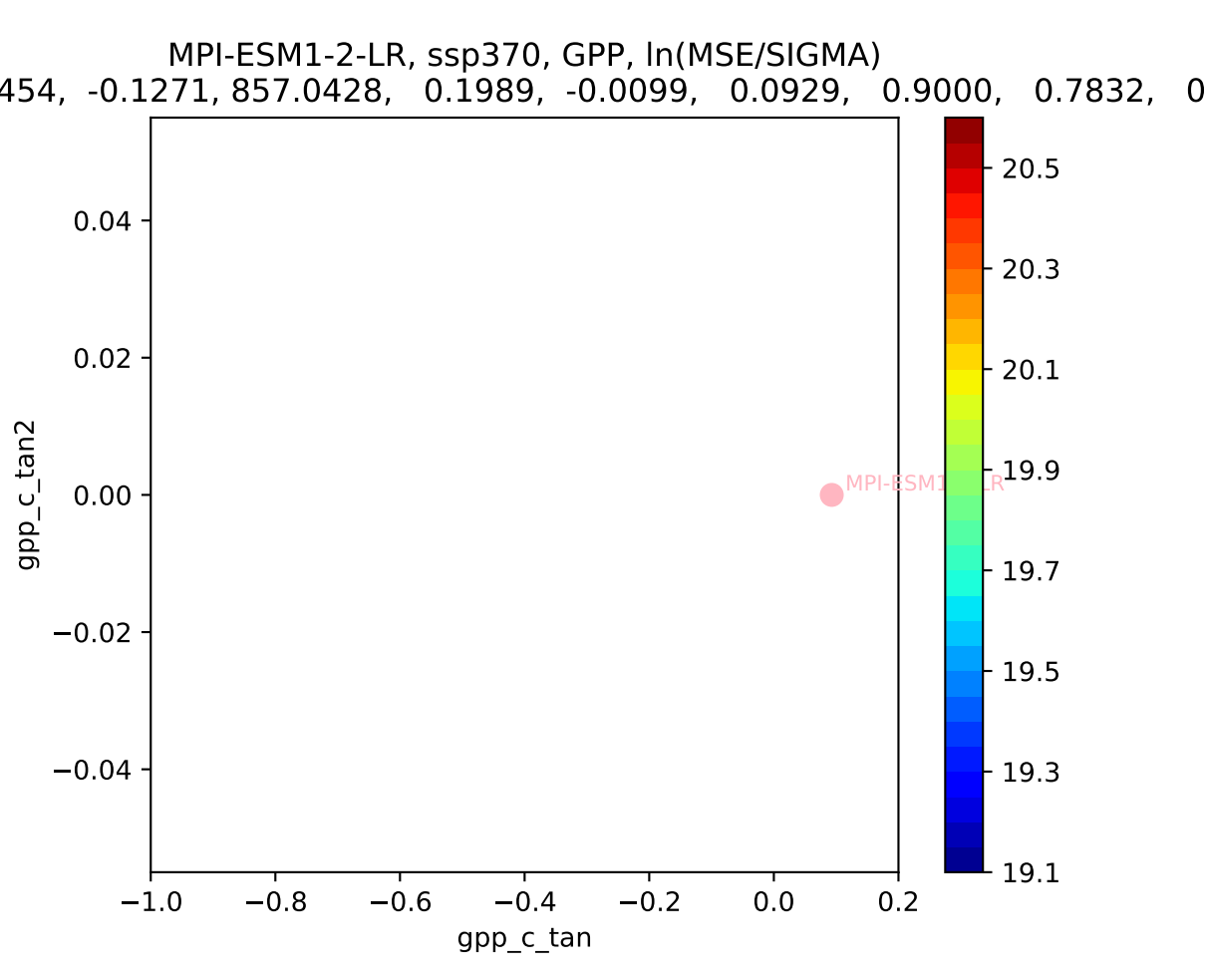

MPI-ESM1-2-LR, ssp370, GPP
ESM
Fit
GPP
c_atm

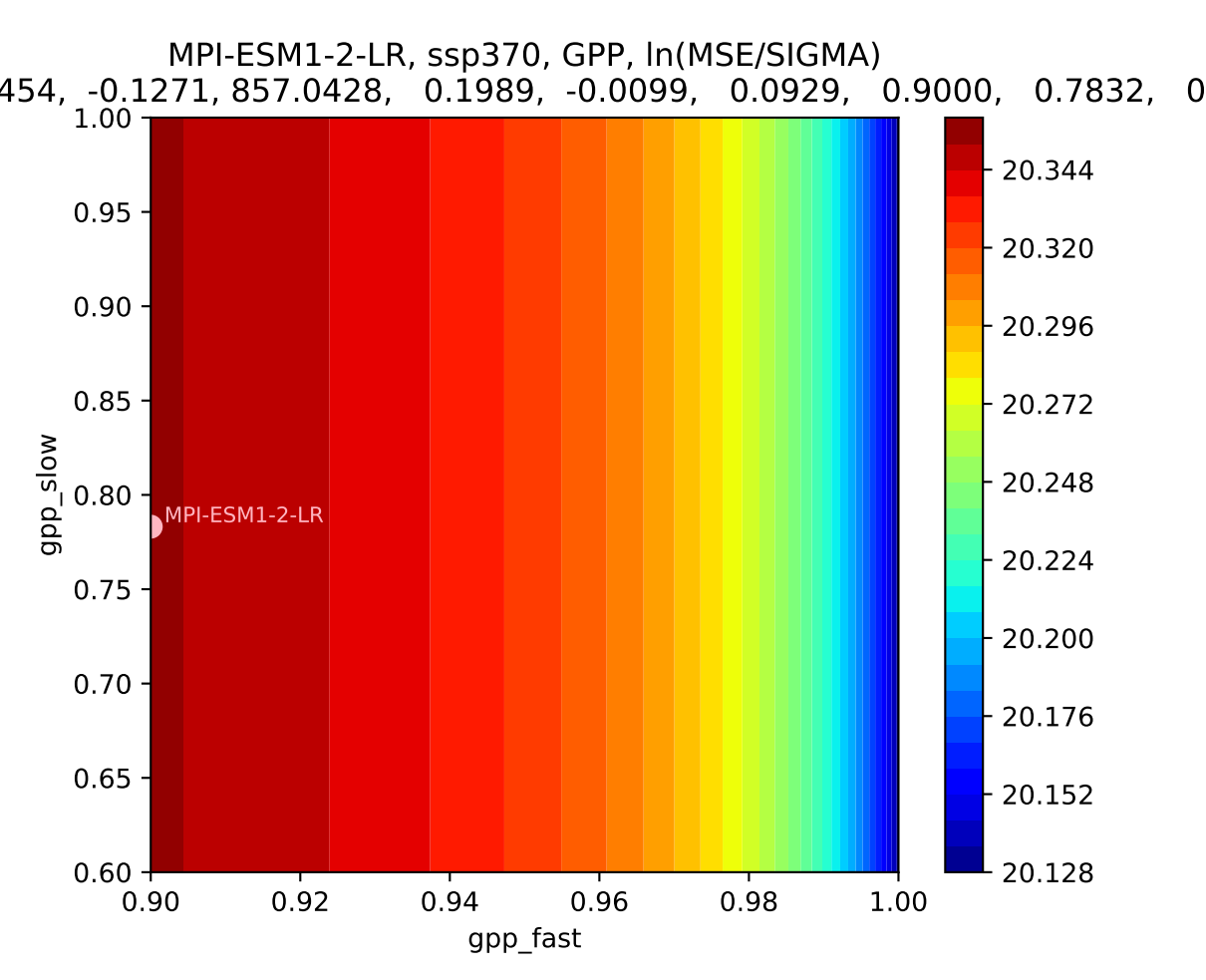

MPI-ESM1-2-LR, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

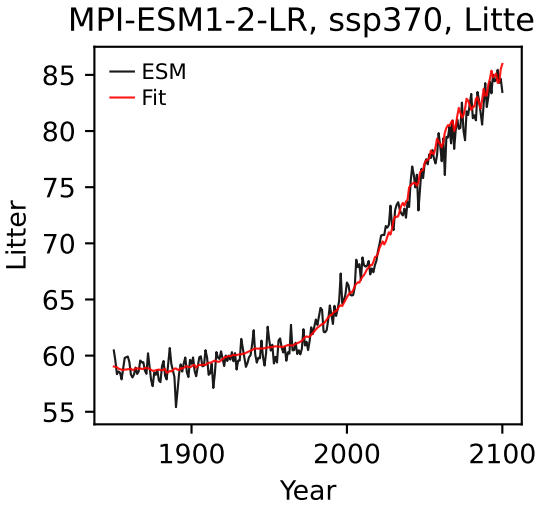

MPI-ESM1-2-LR, ssp370, GPP, ln(MSE/SIGMA)
454, -0.1271, 857.0428, 0.1989, -0.0099, 0.0929, 0.9000, 0.7832, 0
MPI-ESM1-2-LR
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
22.80
22.35
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75

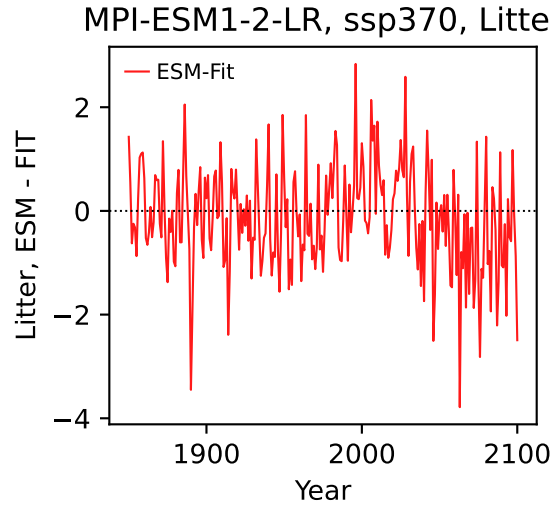

MPI-ESM1-2-LR, ssp370, GPP, ln(MSE/SIGMA)
454, -0.1271, 857.0428, 0.1989, -0.0099, 0.0929, 0.9000, 0.7832, 0
gpp_c_half
gpp_c_l
MPI-ESM1-2-LR
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
20.60
20.48
20.36
20.24
20.12
20.00
19.88
19.76
19.64

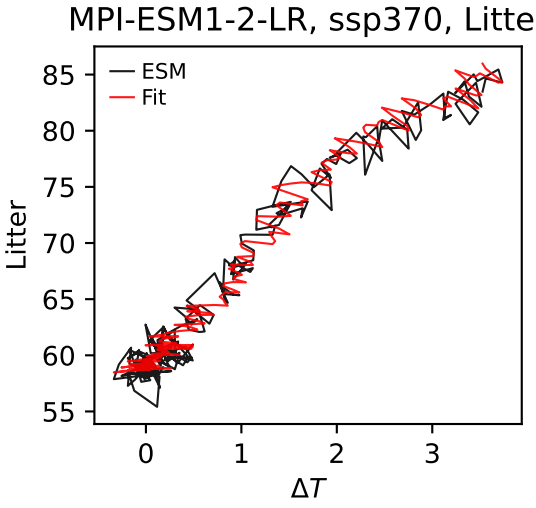

MPI-ESM1-2-LR, ssp370, GPP, ln(MSE/SIGMA)
454, -0.1271, 857.0428, 0.1989, -0.0099, 0.0929, 0.9000, 0.7832, 0
MPI-ESM1-2-LR
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.4
22.0
21.6
21.2
20.8
20.4
20.0
19.6
19.2

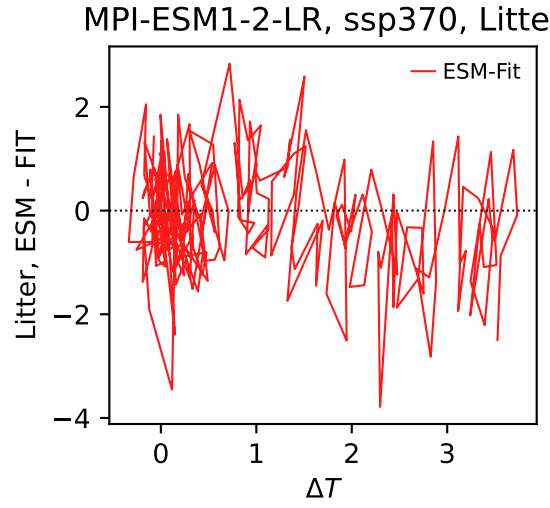

MPI-ESM1-2-LR, ssp370, GPP, ln(MSE/SIGMA)
454, -0.1271, 857.0428, 0.1989, -0.0099, 0.0929, 0.9000, 0.7832, 0
0.04
0.02
0.00
−0.02
−0.04
gpp_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
gpp_c_tan
20.5
20.3
20.1
19.9
19.7
19.5
19.3
19.1

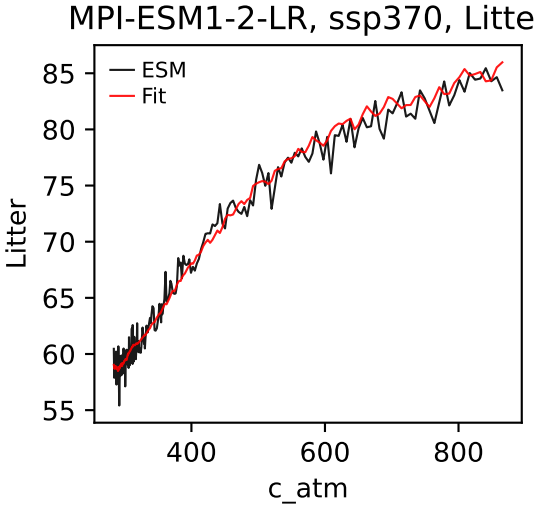

MPI-ESM1-2-LR, ssp370, GPP, ln(MSE/SIGMA)
454, -0.1271, 857.0428, 0.1989, -0.0099, 0.0929, 0.9000, 0.7832, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
gpp_slow
MPI-ESM1-2-LR
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast
20.344
20.320
20.296
20.272
20.248
20.224
20.200
20.176
20.152
20.128

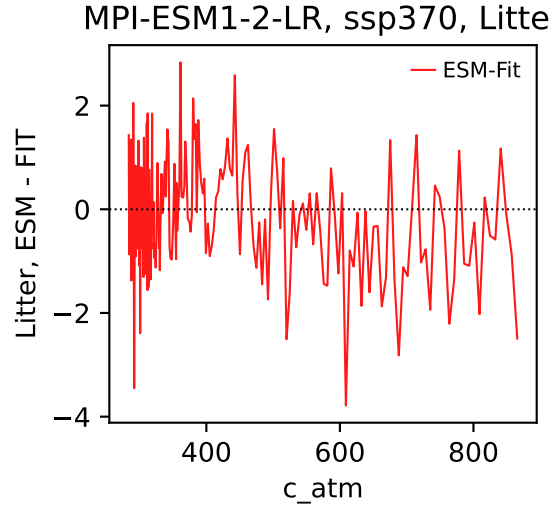

MPI-ESM1-2-LR, ssp370, Litter
ESM
Fit
Litter
Year

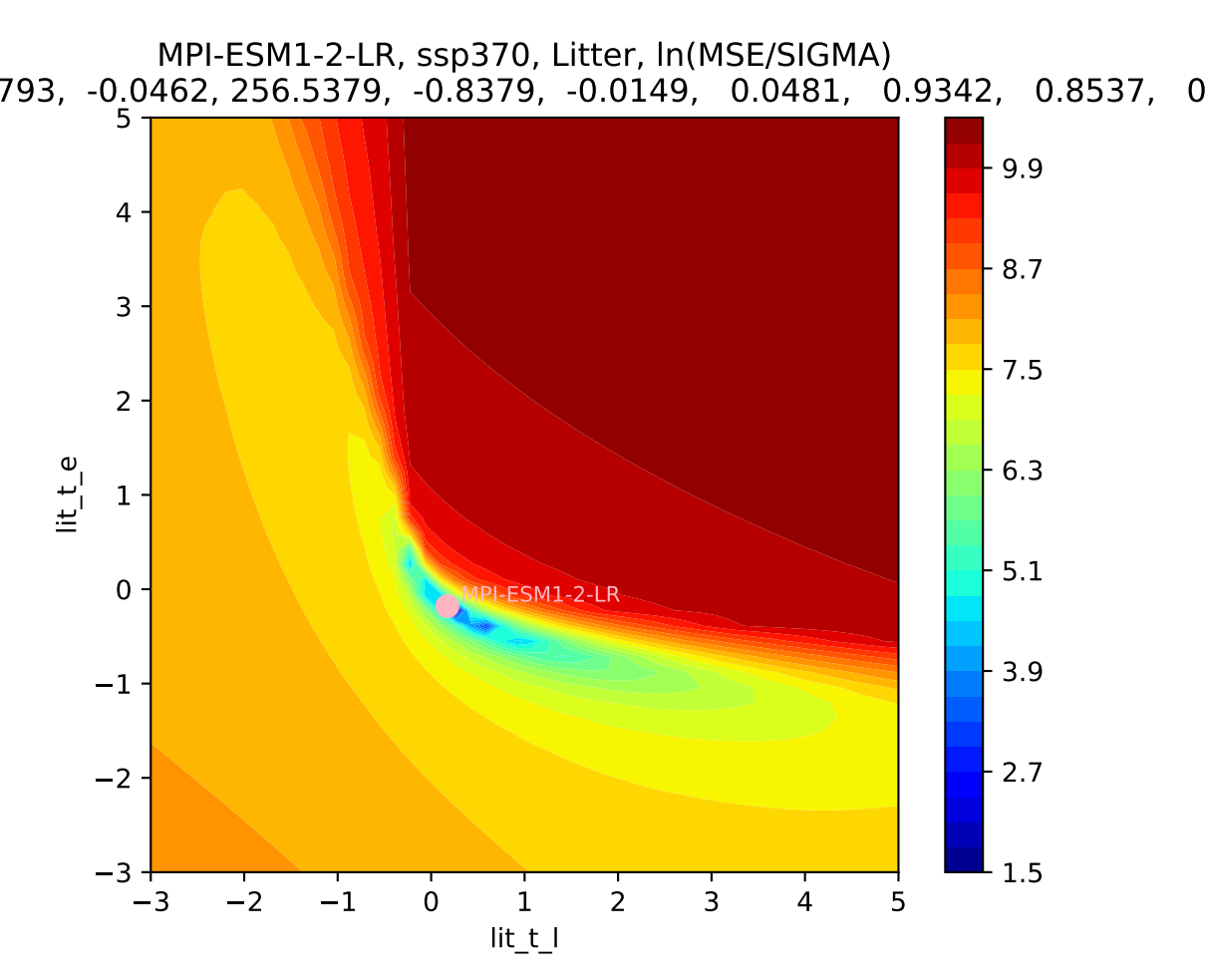

MPI-ESM1-2-LR, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
Year

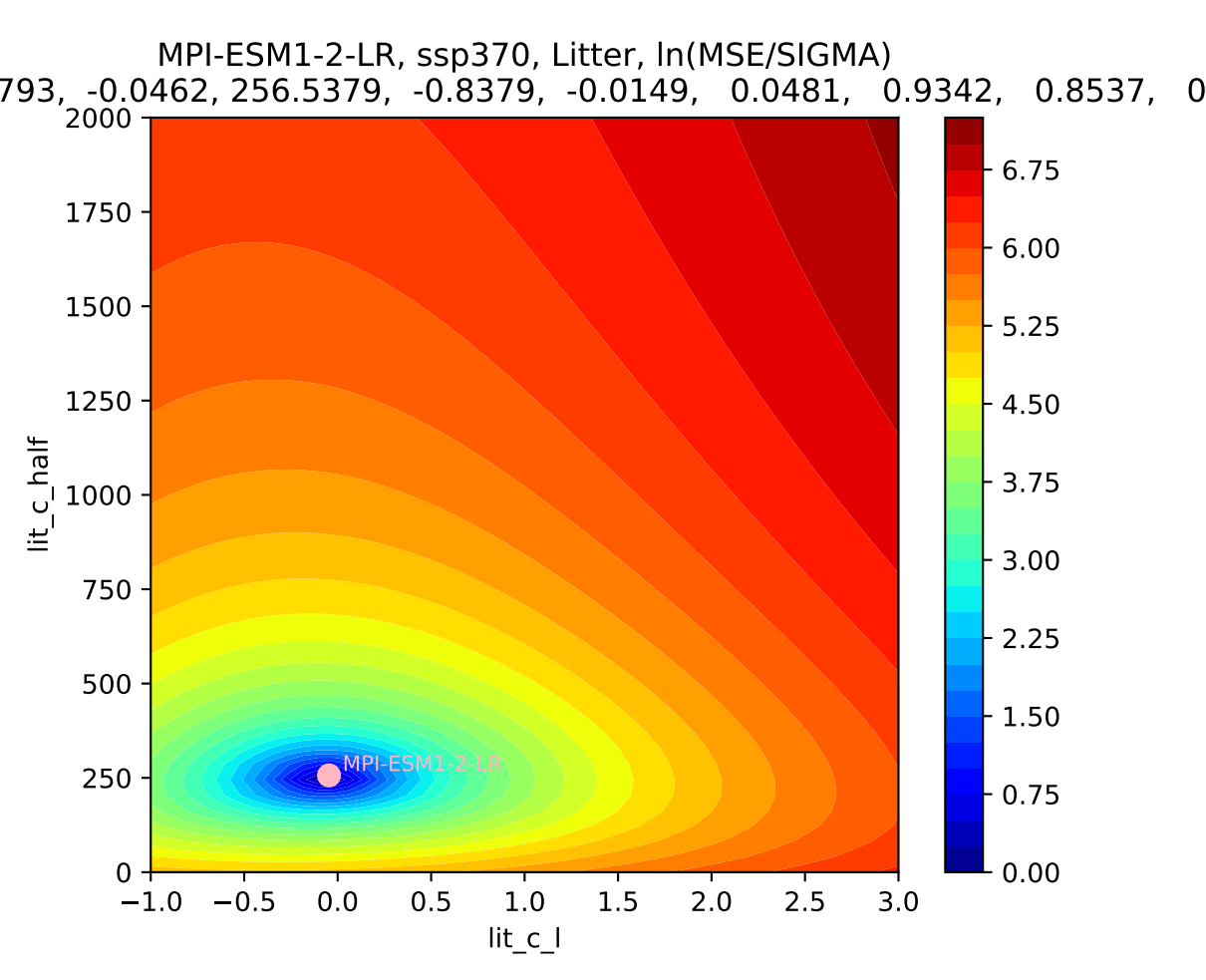

MPI-ESM1-2-LR, ssp370, Litter
ESM
Fit
Litter
ΔT

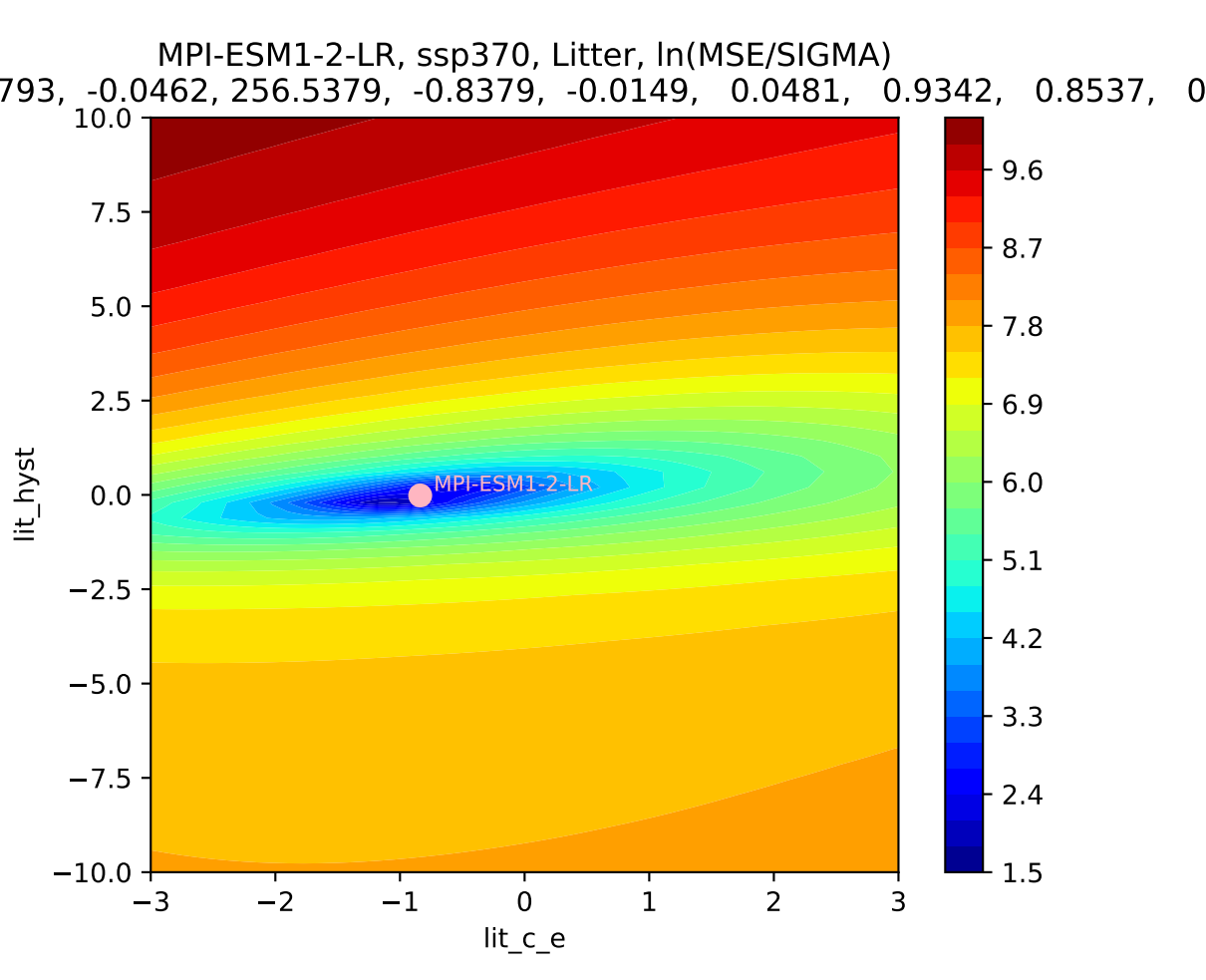

MPI-ESM1-2-LR, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

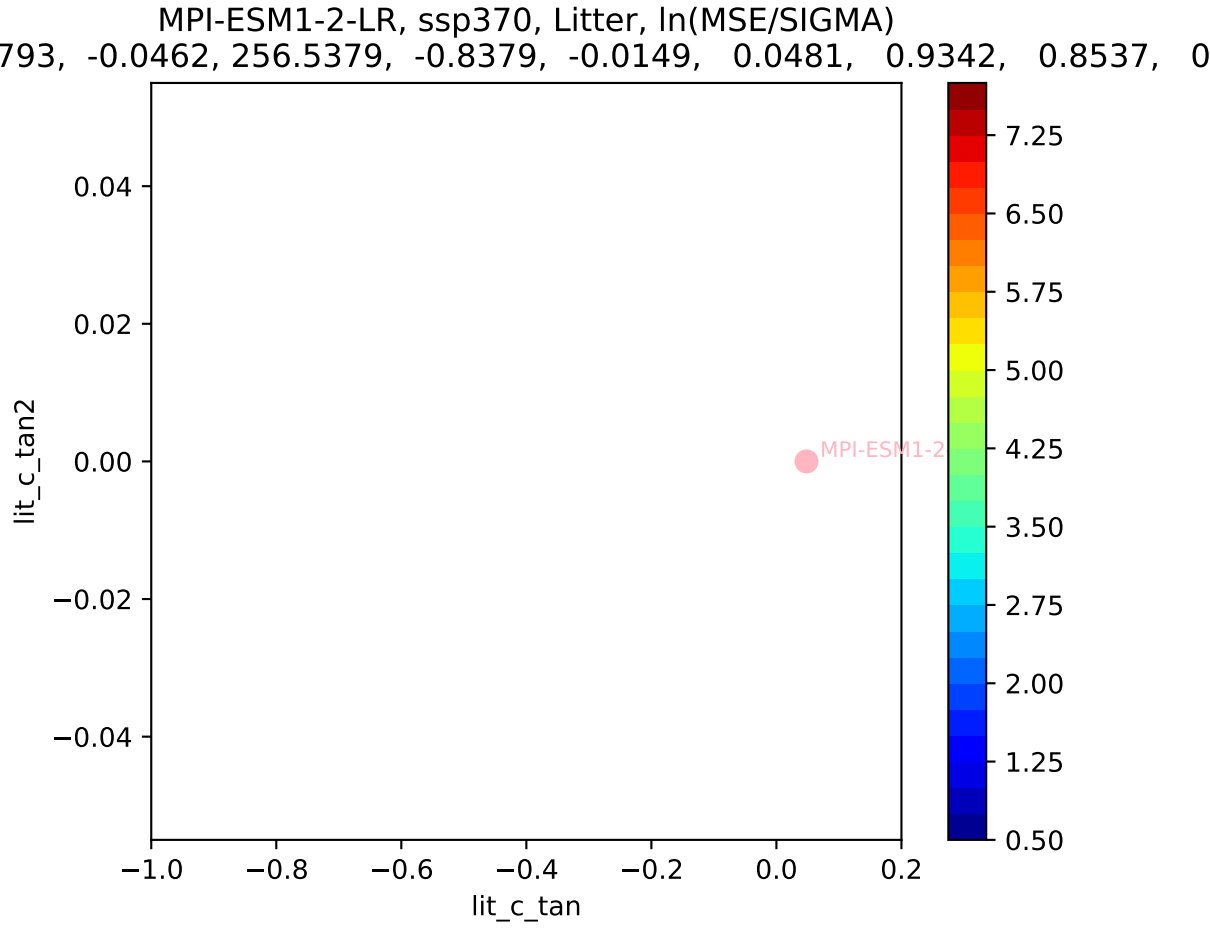

MPI-ESM1-2-LR, ssp370, Litter
ESM
Fit
Litter
c_atm

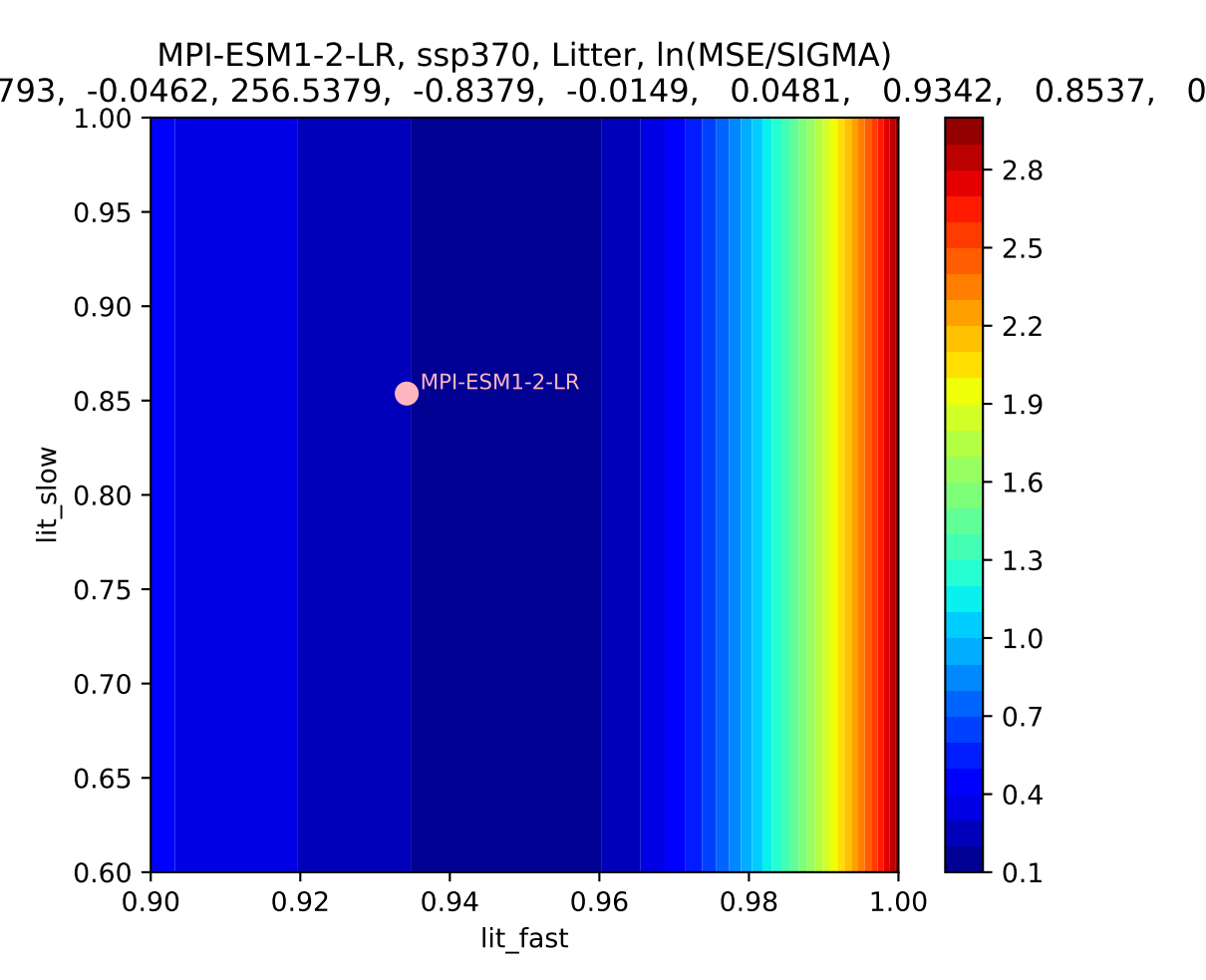

MPI-ESM1-2-LR, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

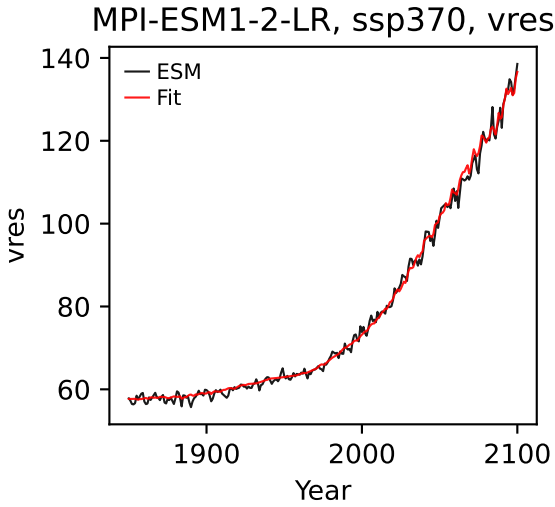

MPI-ESM1-2-LR, ssp370, Litter, ln(MSE/SIGMA)
793, -0.0462, 256.5379, -0.8379, -0.0149, 0.0481, 0.9342, 0.8537, 0
MPI-ESM1-2-LR
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5

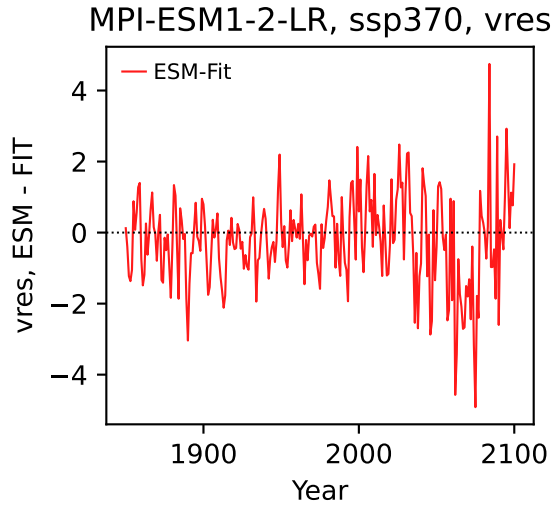

MPI-ESM1-2-LR, ssp370, Litter, ln(MSE/SIGMA)
793, -0.0462, 256.5379, -0.8379, -0.0149, 0.0481, 0.9342, 0.8537, 0
lit_c_half
lit_c_l
MPI-ESM1-2-LR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
6.75
6.00
5.25
4.50
3.75
3.00
2.25
1.50
0.75
0.00

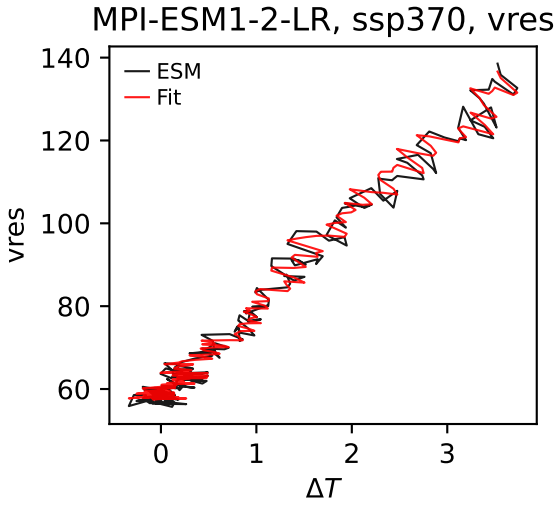

MPI-ESM1-2-LR, ssp370, Litter, ln(MSE/SIGMA)
793, -0.0462, 256.5379, -0.8379, -0.0149, 0.0481, 0.9342, 0.8537, 0
MPI-ESM1-2-LR
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5

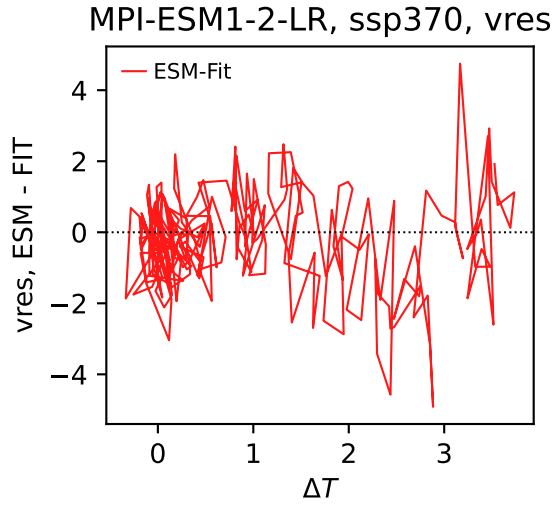

MPI-ESM1-2-LR, ssp370, Litter, ln(MSE/SIGMA)
793, -0.0462, 256.5379, -0.8379, -0.0149, 0.0481, 0.9342, 0.8537, 0
MPI-ESM1-2
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00
1.25
0.50

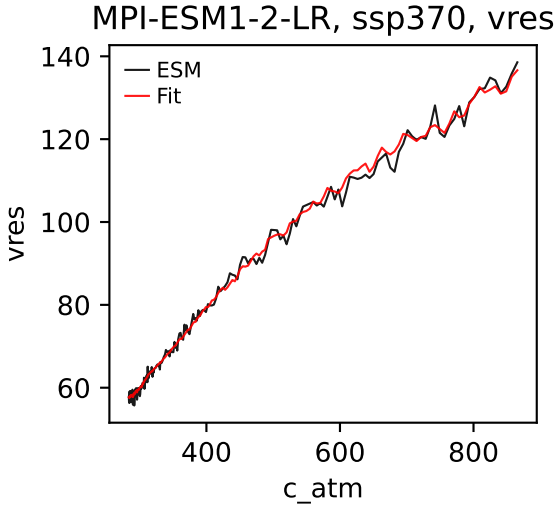

MPI-ESM1-2-LR, ssp370, Litter, ln(MSE/SIGMA)
793, -0.0462, 256.5379, -0.8379, -0.0149, 0.0481, 0.9342, 0.8537, 0
MPI-ESM1-2-LR
lit_slow
lit_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
2.8
2.5
2.2
1.9
1.6
1.3
1.0
0.7
0.4
0.1

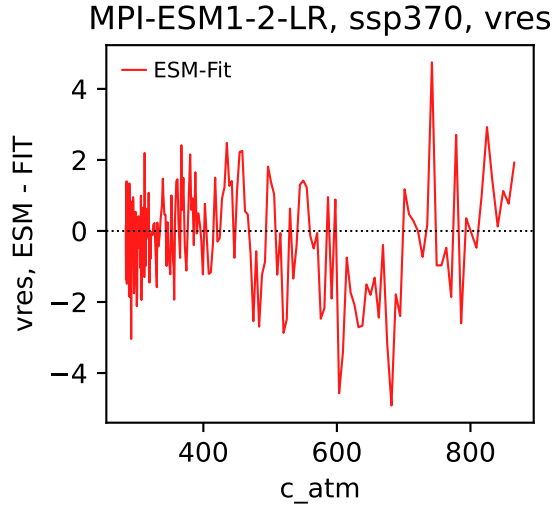

MPI-ESM1-2-LR, ssp370, vres
ESM
Fit
vres
Year
140
120
100
80
60
1900
2000
2100

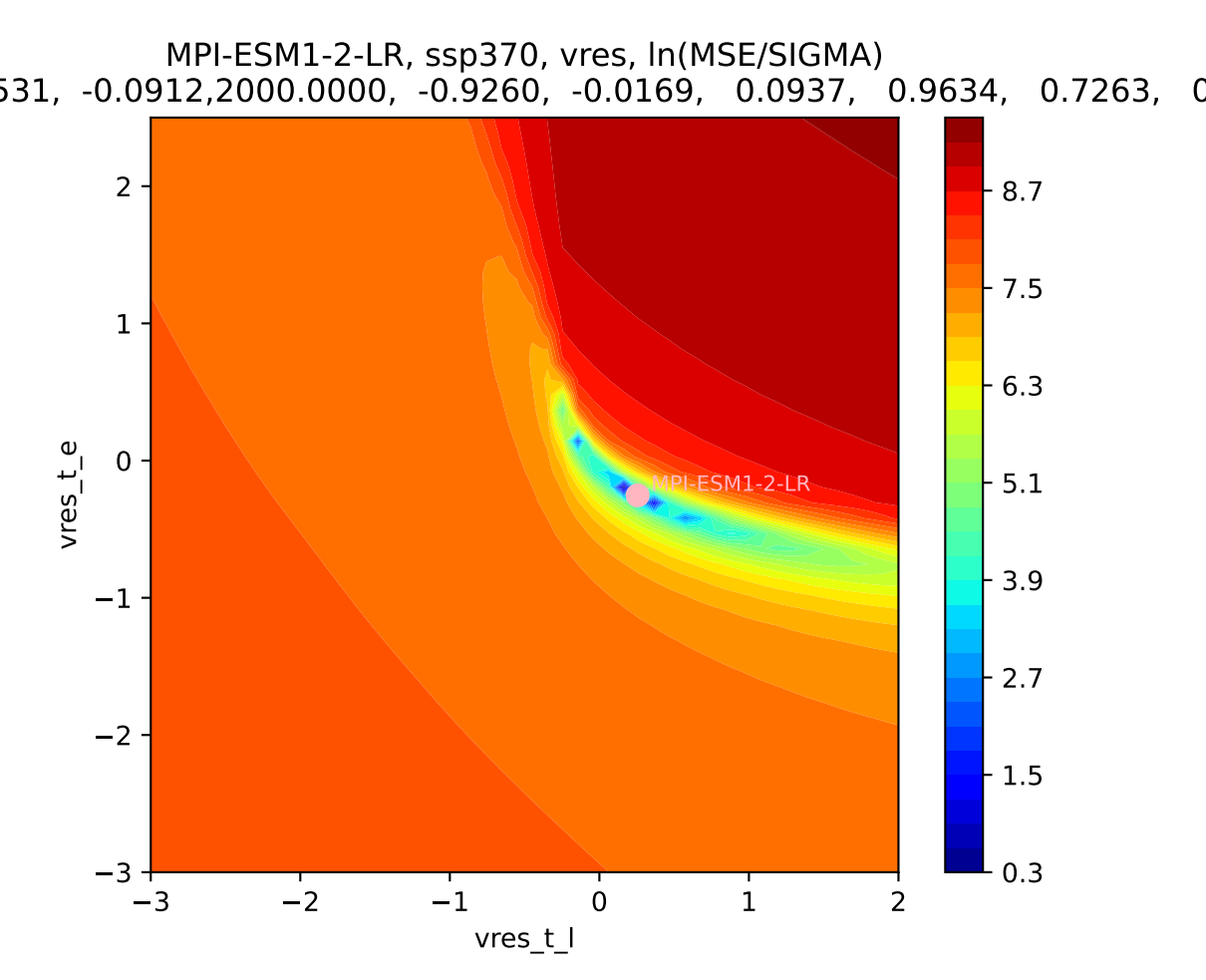

MPI-ESM1-2-LR, ssp370, vres
ESM-Fit
vres, ESM - FIT
Year
4
2
0
−2
−4
1900
2000
2100

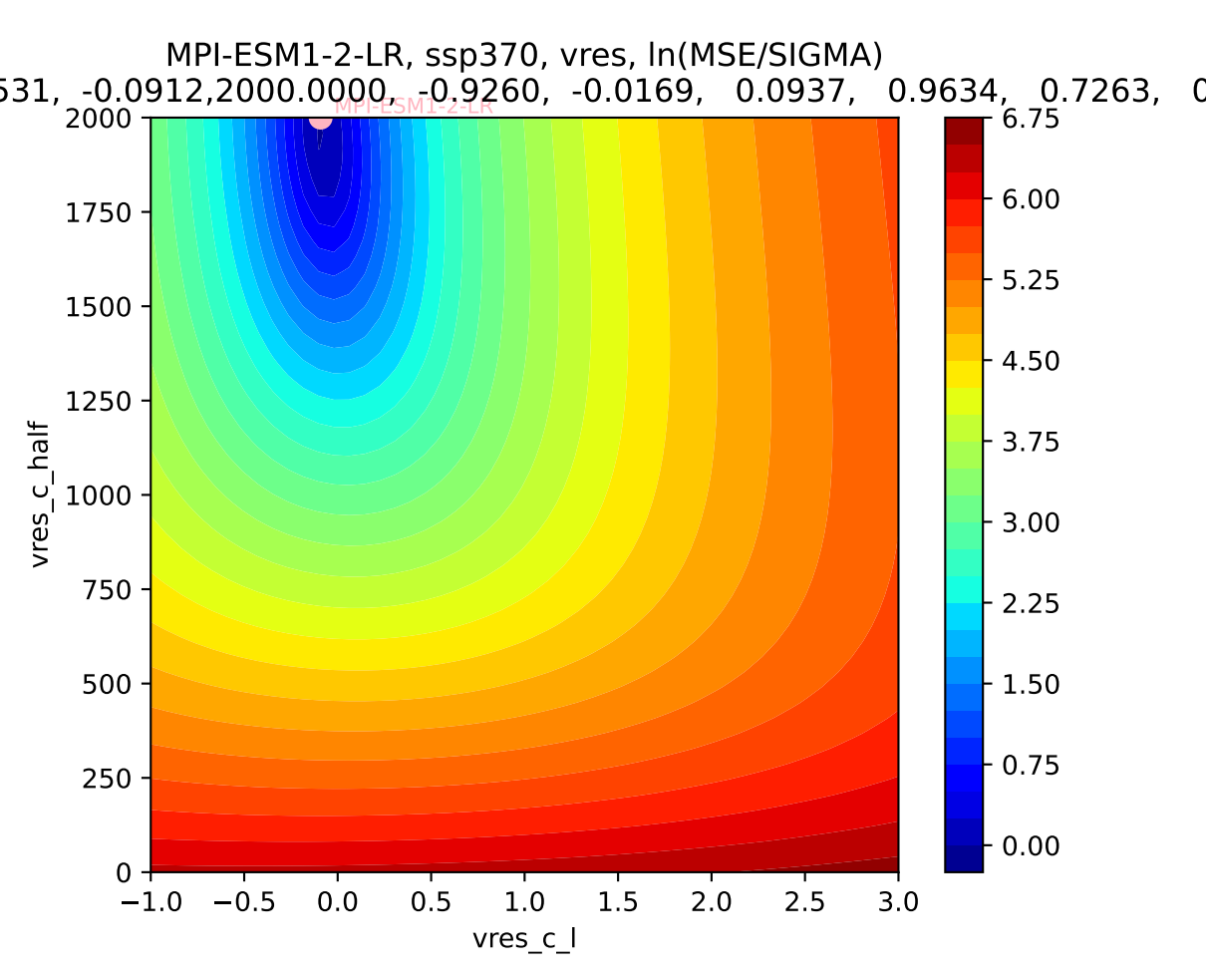

MPI-ESM1-2-LR, ssp370, vres
ESM
Fit
vres
ΔT
140
120
100
80
60
0
1
2
3

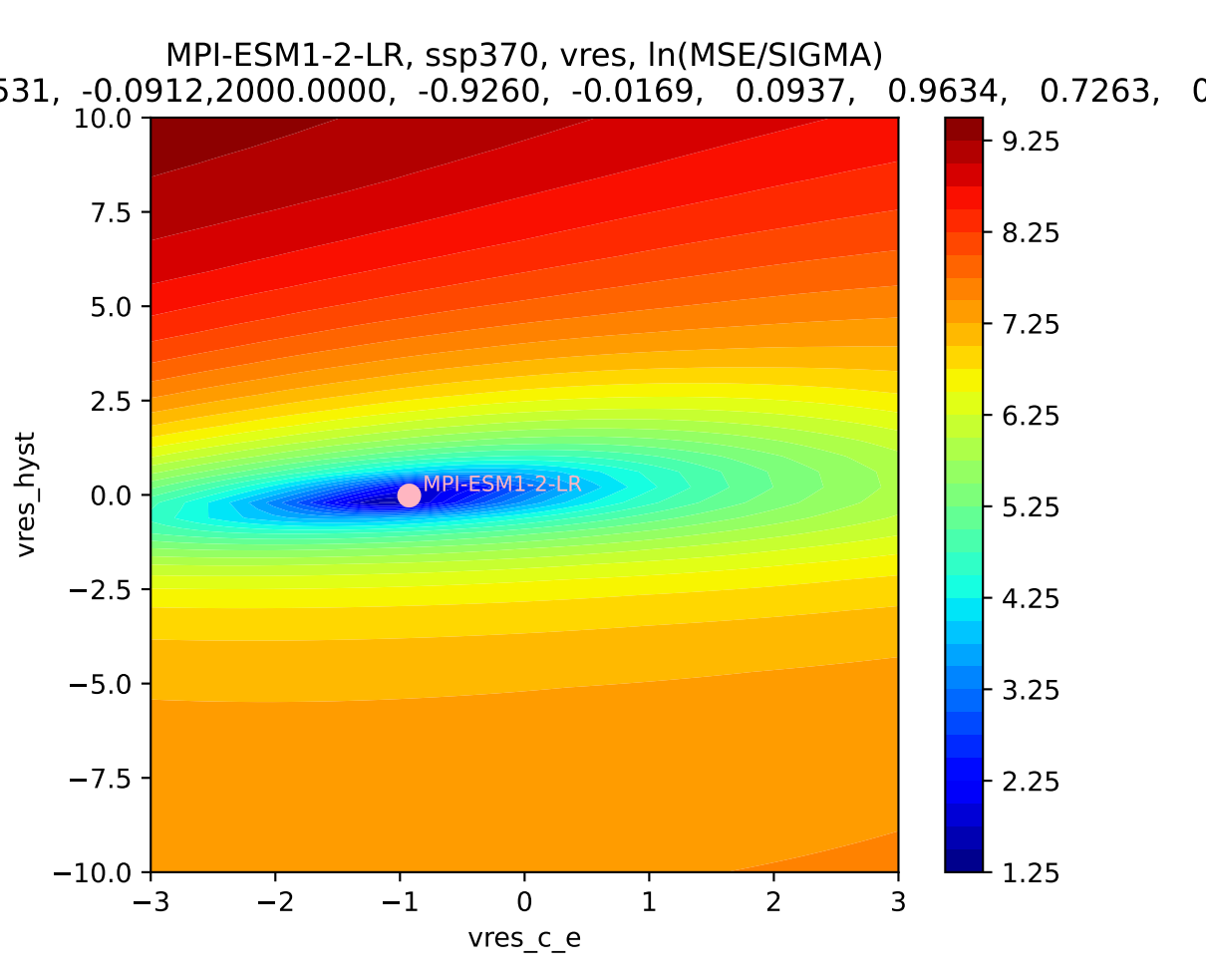

MPI-ESM1-2-LR, ssp370, vres
ESM-Fit
vres, ESM - FIT
ΔT
4
2
0
−2
−4
0
1
2
3

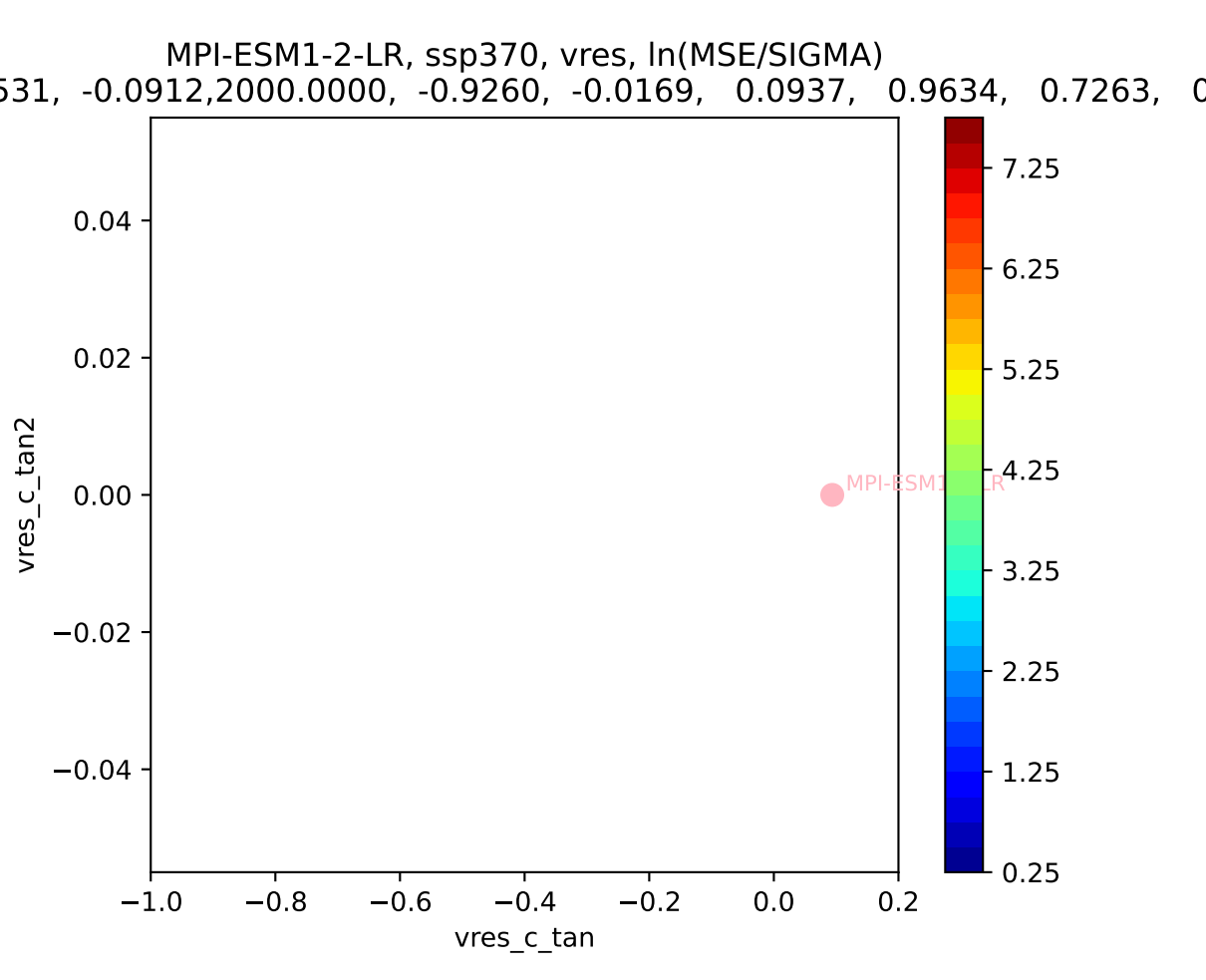

MPI-ESM1-2-LR, ssp370, vres
ESM
Fit
vres
c_atm
140
120
100
80
60
400
600
800

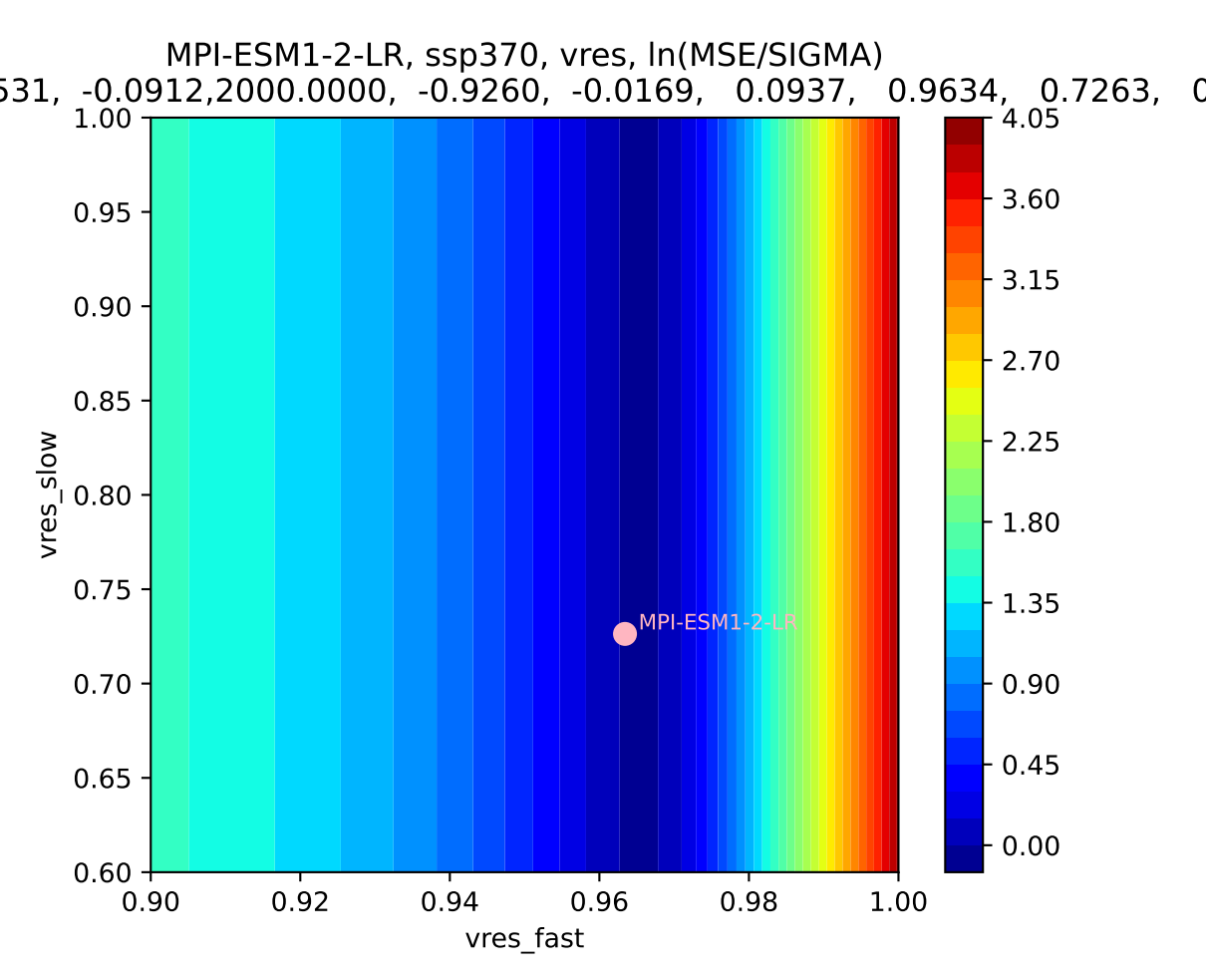

MPI-ESM1-2-LR, ssp370, vres
ESM-Fit
vres, ESM - FIT
c_atm
4
2
0
−2
−4
400
600
800

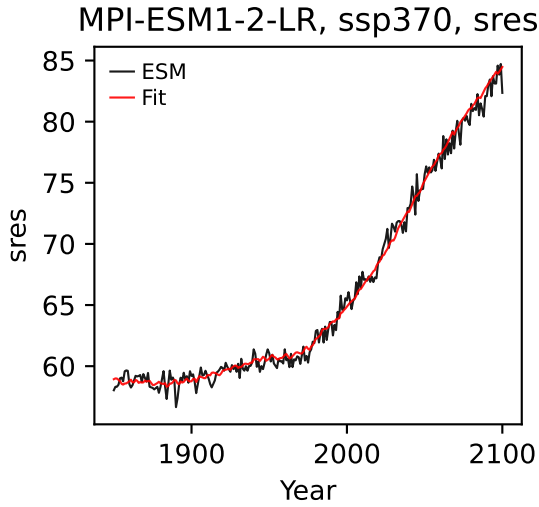

MPI-ESM1-2-LR, ssp370, vres, ln(MSE/SIGMA)
531, -0.0912,2000.0000, -0.9260, -0.0169, 0.0937, 0.9634, 0.7263, 0
MPI-ESM1-2-LR
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

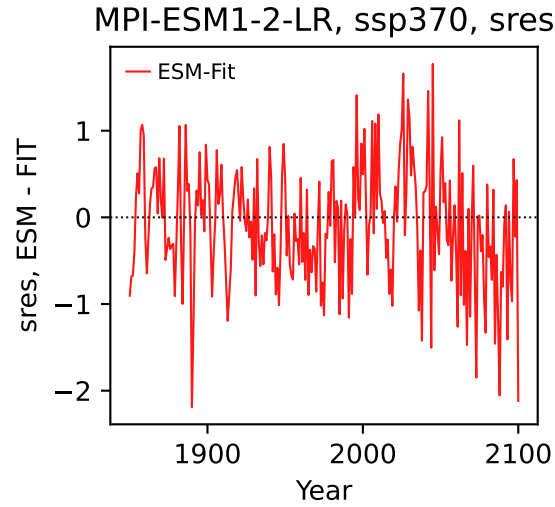

MPI-ESM1-2-LR, ssp370, vres, ln(MSE/SIGMA)
531, -0.0912,2000.0000, -0.9260, -0.0169, 0.0937, 0.9634, 0.7263, 0
MPI-ESM1-2-LR
vres_c_half
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
vres_c_l
6.75
6.00
5.25
4.50
3.75
3.00
2.25
1.50
0.75
0.00

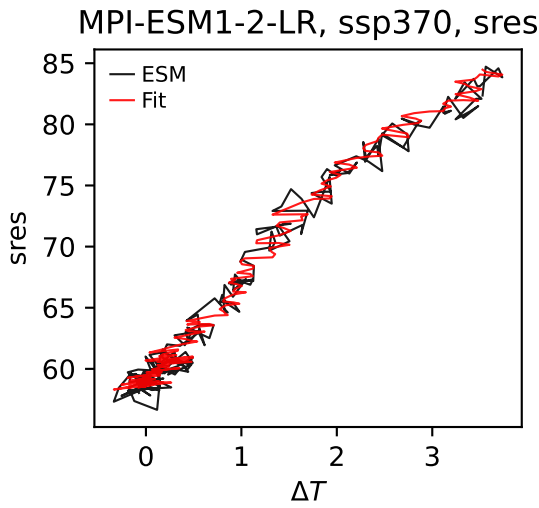

MPI-ESM1-2-LR, ssp370, vres, ln(MSE/SIGMA)
531, -0.0912,2000.0000, -0.9260, -0.0169, 0.0937, 0.9634, 0.7263, 0
MPI-ESM1-2-LR
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.25
8.25
7.25
6.25
5.25
4.25
3.25
2.25
1.25

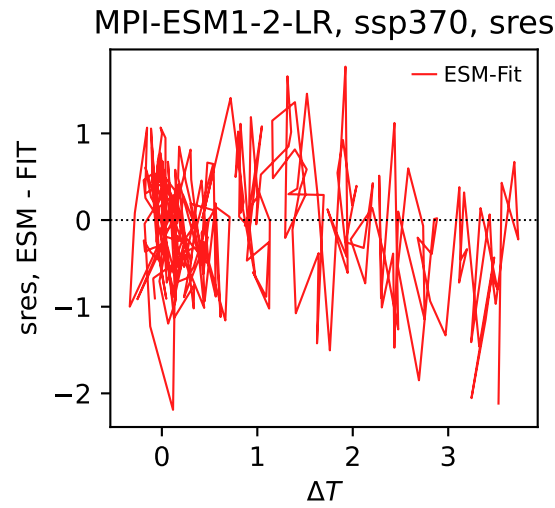

MPI-ESM1-2-LR, ssp370, vres, ln(MSE/SIGMA)
531, -0.0912,2000.0000, -0.9260, -0.0169, 0.0937, 0.9634, 0.7263, 0
0.04
0.02
0.00
−0.02
−0.04
vres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
vres_c_tan
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

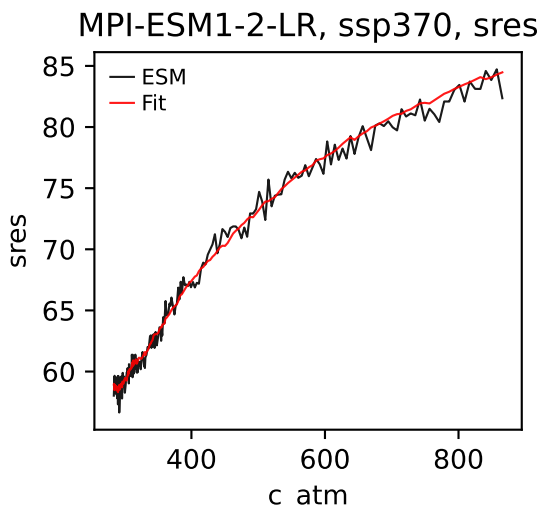

MPI-ESM1-2-LR, ssp370, vres, ln(MSE/SIGMA)
531, -0.0912,2000.0000, -0.9260, -0.0169, 0.0937, 0.9634, 0.7263, 0
MPI-ESM1-2-LR
vres_slow
vres_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
4.05
3.60
3.15
2.70
2.25
1.80
1.35
0.90
0.45
0.00

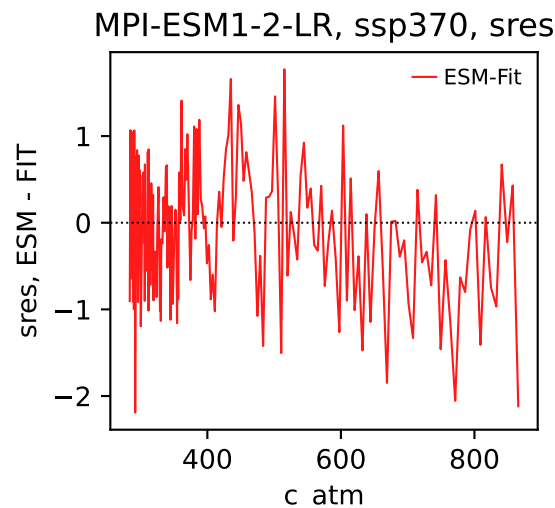

MPI-ESM1-2-LR, ssp370, sres
ESM
Fit
sres
Year
85
80
75
70
65
60
1900
2000
2100

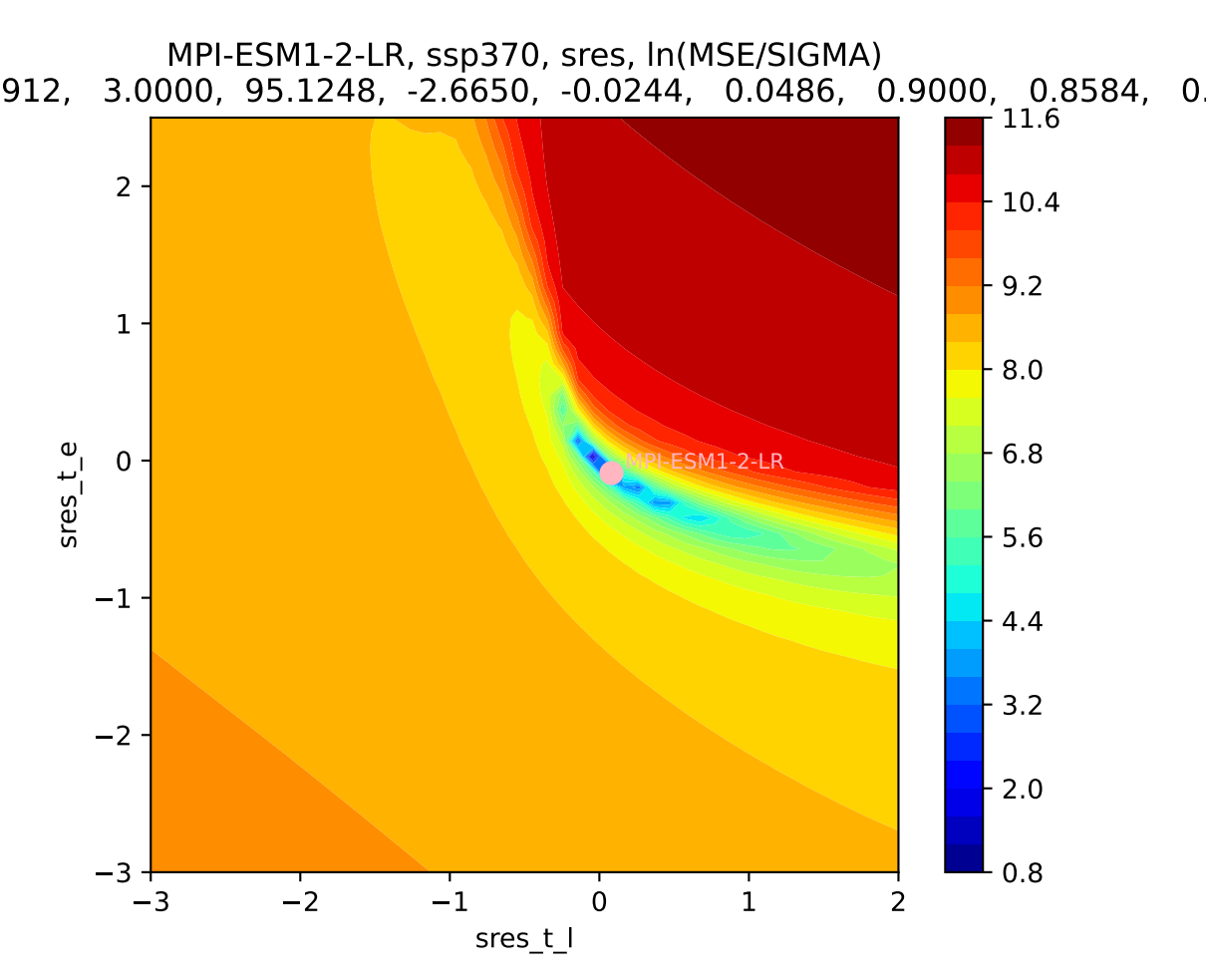

MPI-ESM1-2-LR, ssp370, sres
ESM-Fit
sres, ESM - FIT
Year
1
0
−1
−2
1900
2000
2100

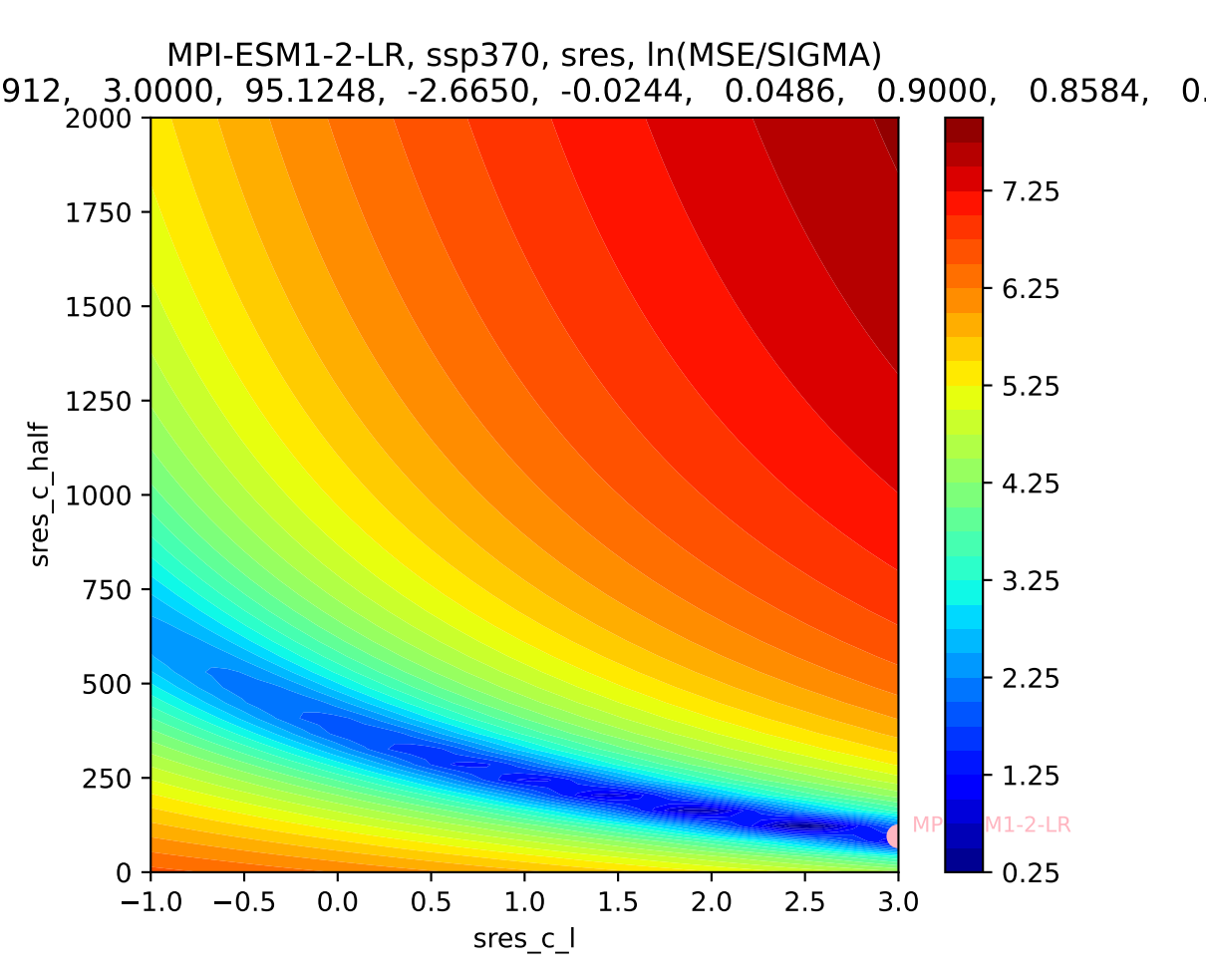

MPI-ESM1-2-LR, ssp370, sres
ESM
Fit
sres
ΔT
85
80
75
70
65
60
0
1
2
3

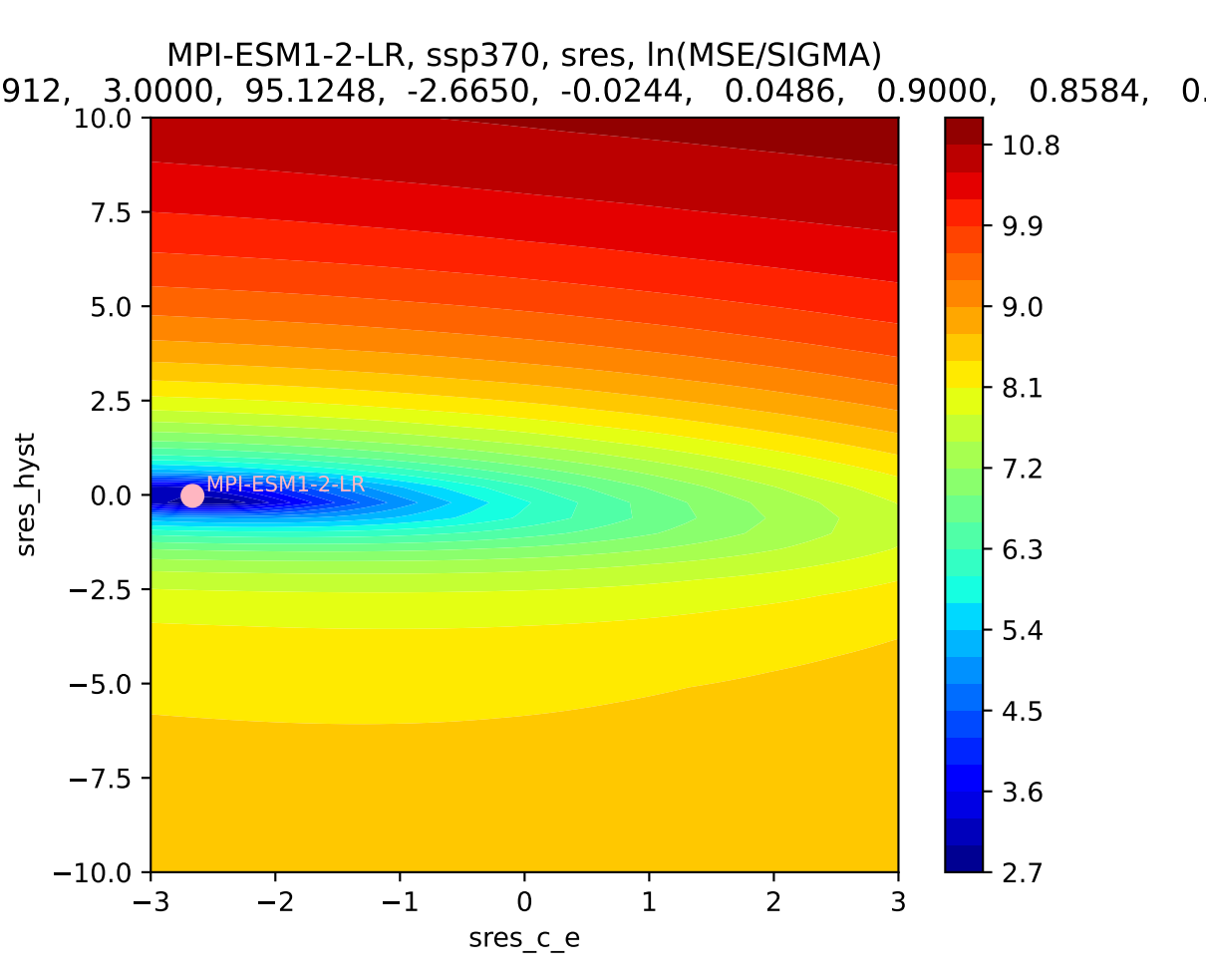

MPI-ESM1-2-LR, ssp370, sres
ESM-Fit
sres, ESM - FIT
ΔT
1
0
−1
−2
0
1
2
3

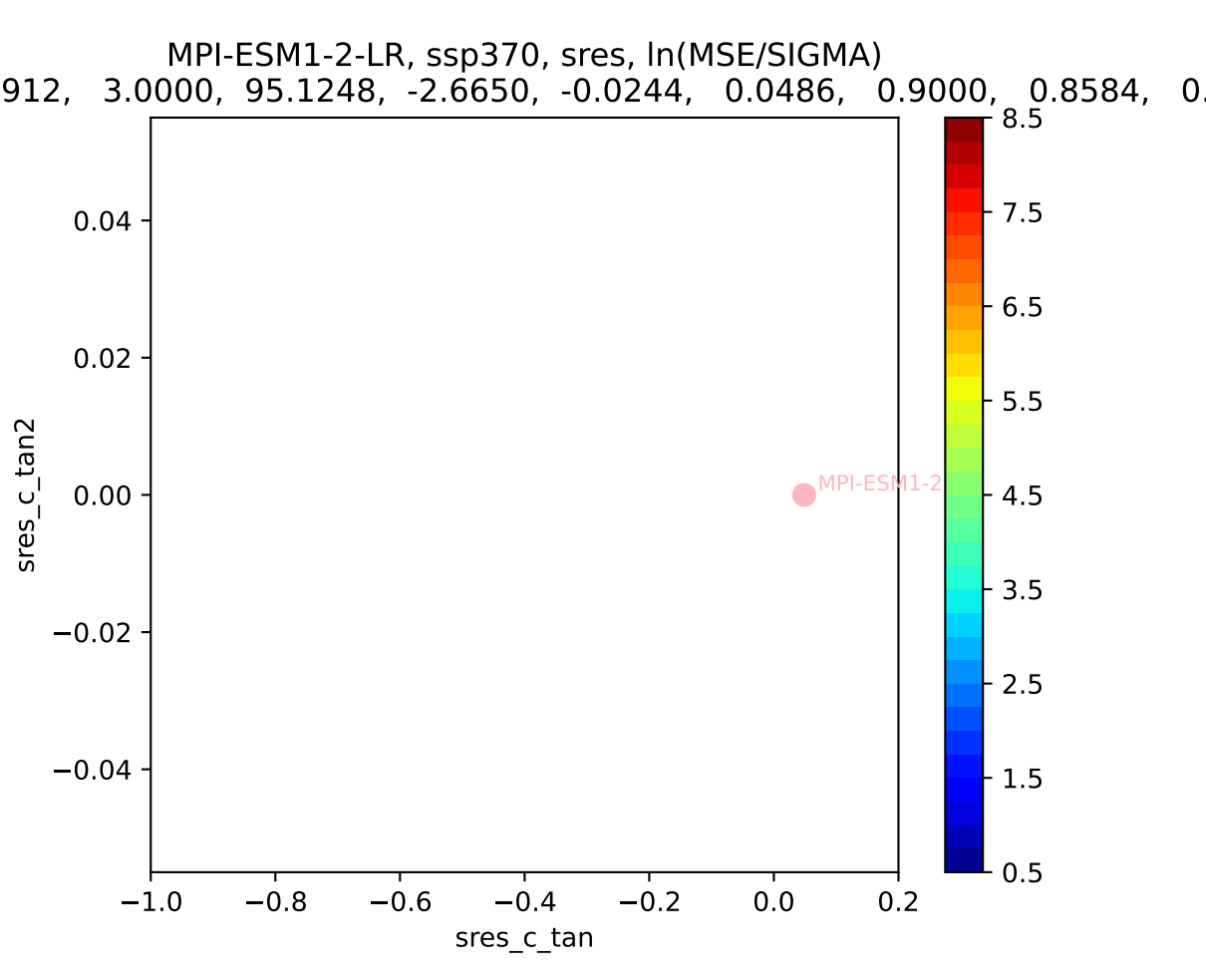

MPI-ESM1-2-LR, ssp370, sres
ESM
Fit
sres
c_atm
85
80
75
70
65
60
400
600
800

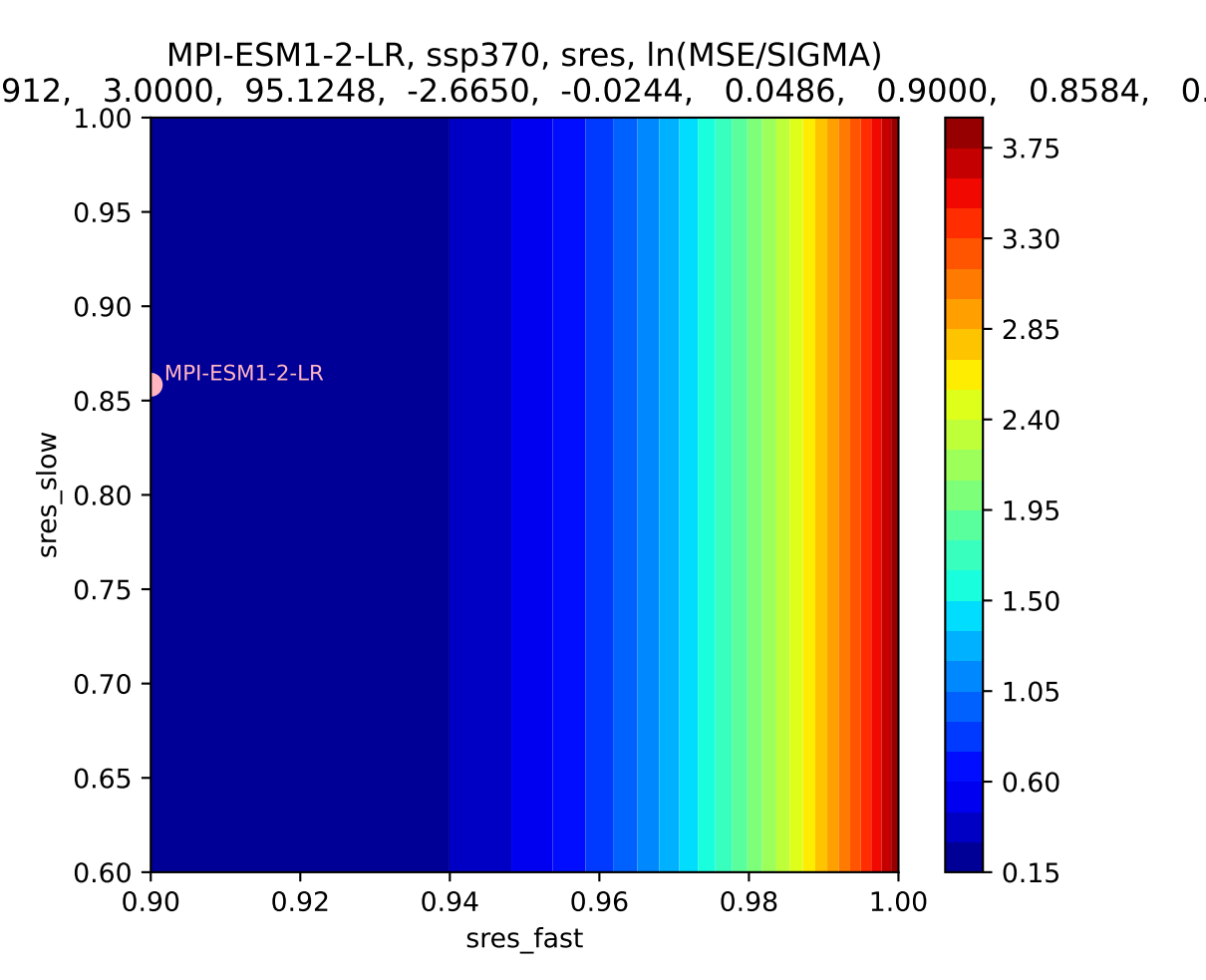

MPI-ESM1-2-LR, ssp370, sres
ESM-Fit
sres, ESM - FIT
c_atm
1
0
−1
−2
400
600
800

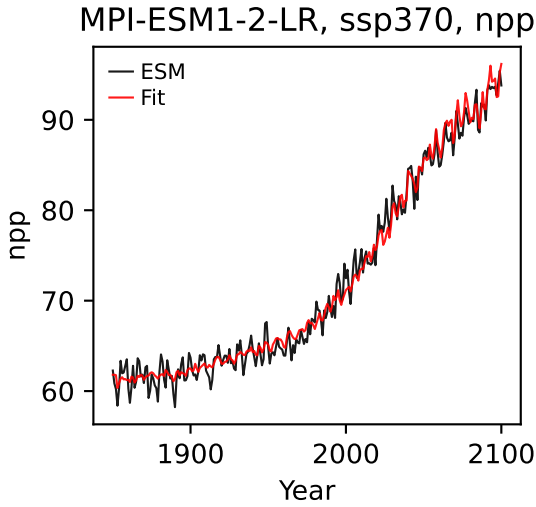

MPI-ESM1-2-LR, ssp370, sres, ln(MSE/SIGMA)
912, 3.0000, 95.1248, -2.6650, -0.0244, 0.0486, 0.9000, 0.8584, 0.
MPI-ESM1-2-LR
sres_t_e
sres_t_l
−3
−2
−1
0
1
2
11.6
10.4
9.2
8.0
6.8
5.6
4.4
3.2
2.0
0.8

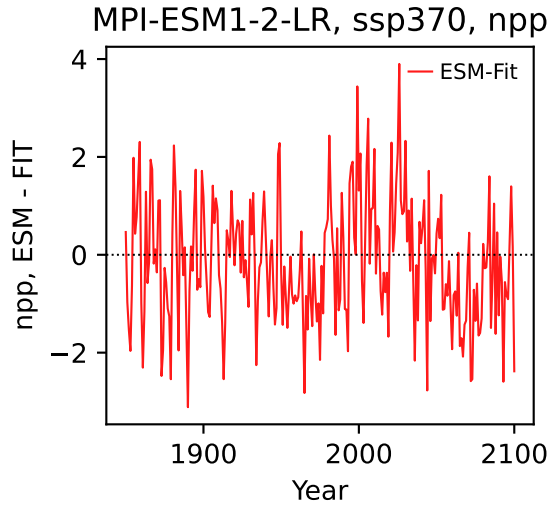

MPI-ESM1-2-LR, ssp370, sres, ln(MSE/SIGMA)
912, 3.0000, 95.1248, -2.6650, -0.0244, 0.0486, 0.9000, 0.8584, 0.
sres_c_half
sres_c_l
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

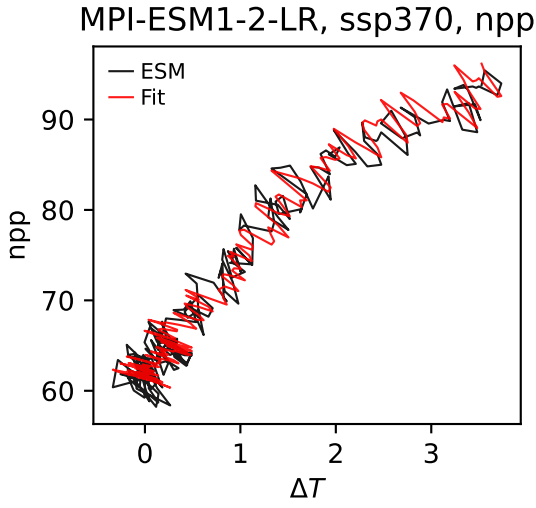

MPI-ESM1-2-LR, ssp370, sres, ln(MSE/SIGMA)
912, 3.0000, 95.1248, -2.6650, -0.0244, 0.0486, 0.9000, 0.8584, 0.
MPI-ESM1-2-LR
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7

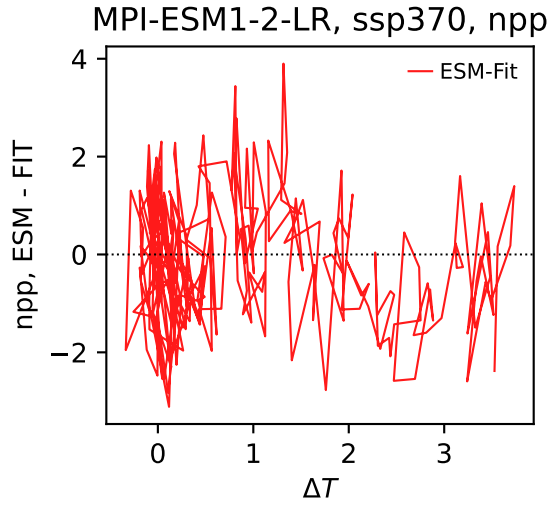

MPI-ESM1-2-LR, ssp370, sres, ln(MSE/SIGMA)
912, 3.0000, 95.1248, -2.6650, -0.0244, 0.0486, 0.9000, 0.8584, 0.
MPI-ESM1-2
0.04
0.02
0.00
−0.02
−0.04
sres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
sres_c_tan
8.5
7.5
6.5
5.5
4.5
3.5
2.5
1.5
0.5

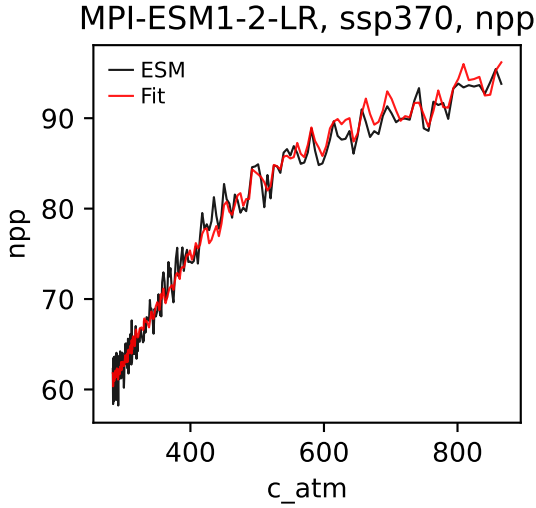

MPI-ESM1-2-LR, ssp370, sres, ln(MSE/SIGMA)
912, 3.0000, 95.1248, -2.6650, -0.0244, 0.0486, 0.9000, 0.8584, 0.
MPI-ESM1-2-LR
sres_slow
sres_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
3.75
3.30
2.85
2.40
1.95
1.50
1.05
0.60
0.15

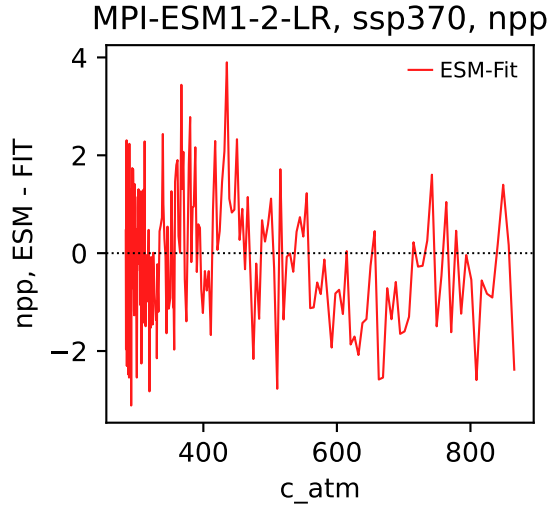

MPI-ESM1-2-LR, ssp370, npp
ESM
Fit
npp
Year

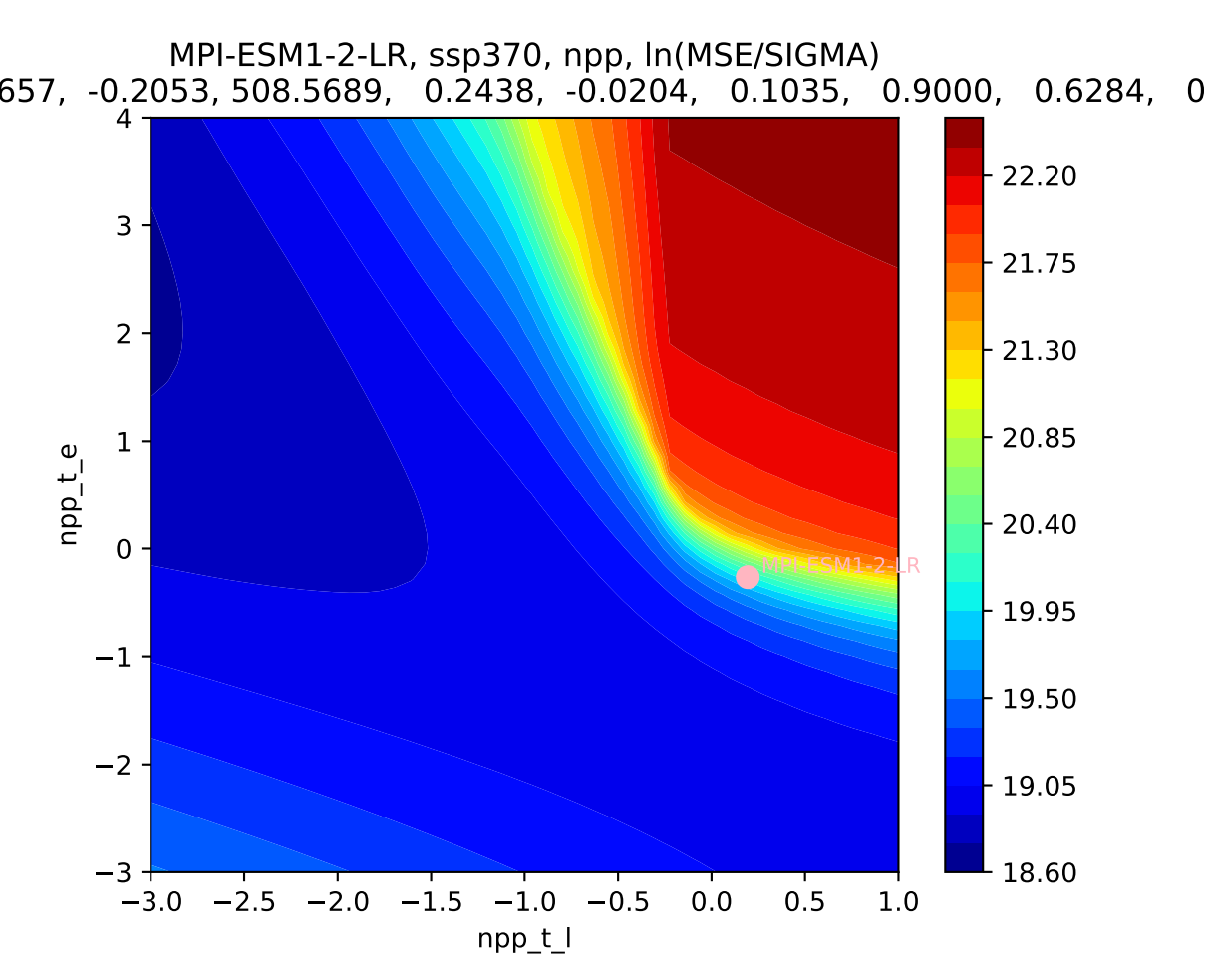

MPI-ESM1-2-LR, ssp370, npp
ESM-Fit
npp, ESM - FIT
Year

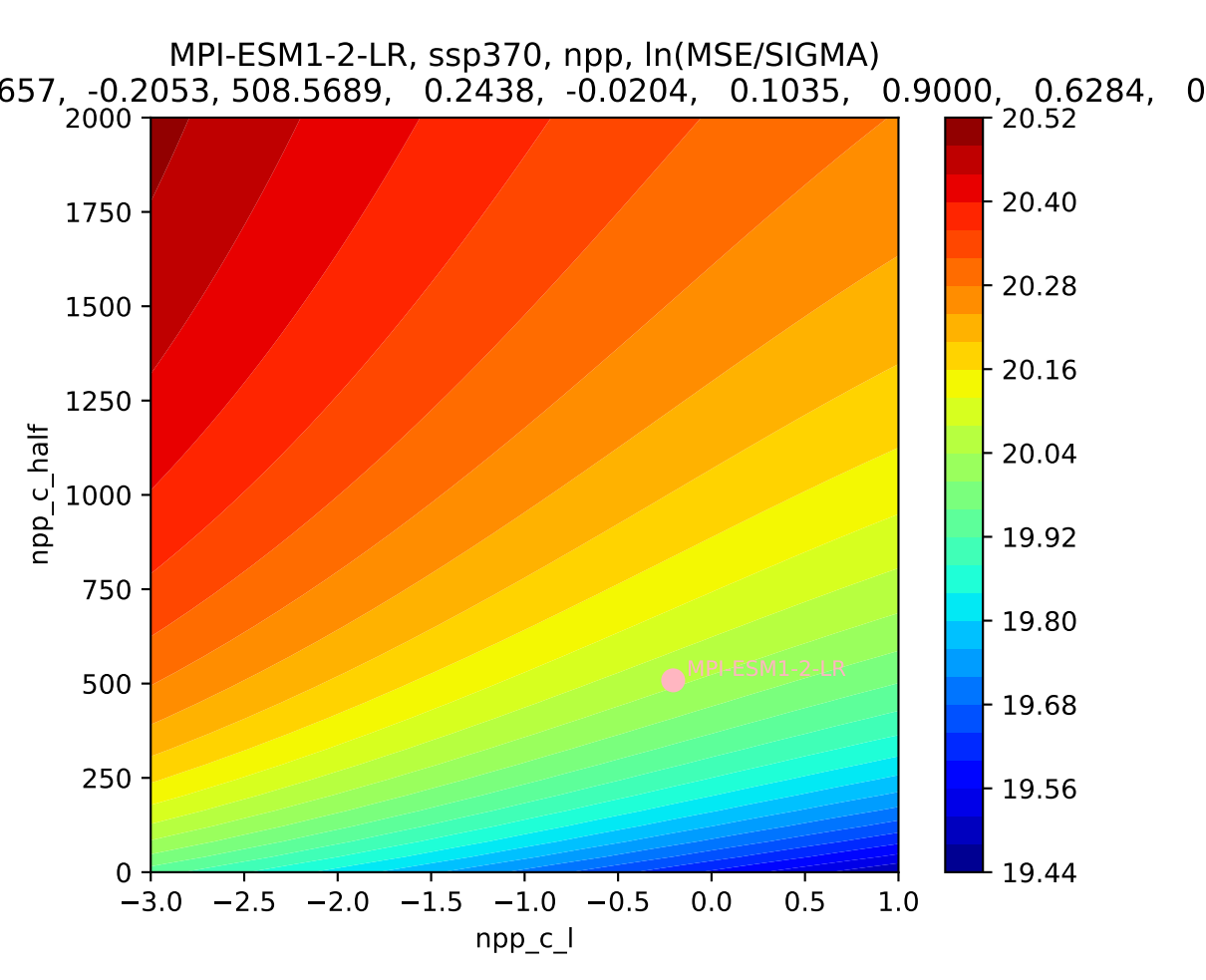

MPI-ESM1-2-LR, ssp370, npp
ESM
Fit
npp
ΔT

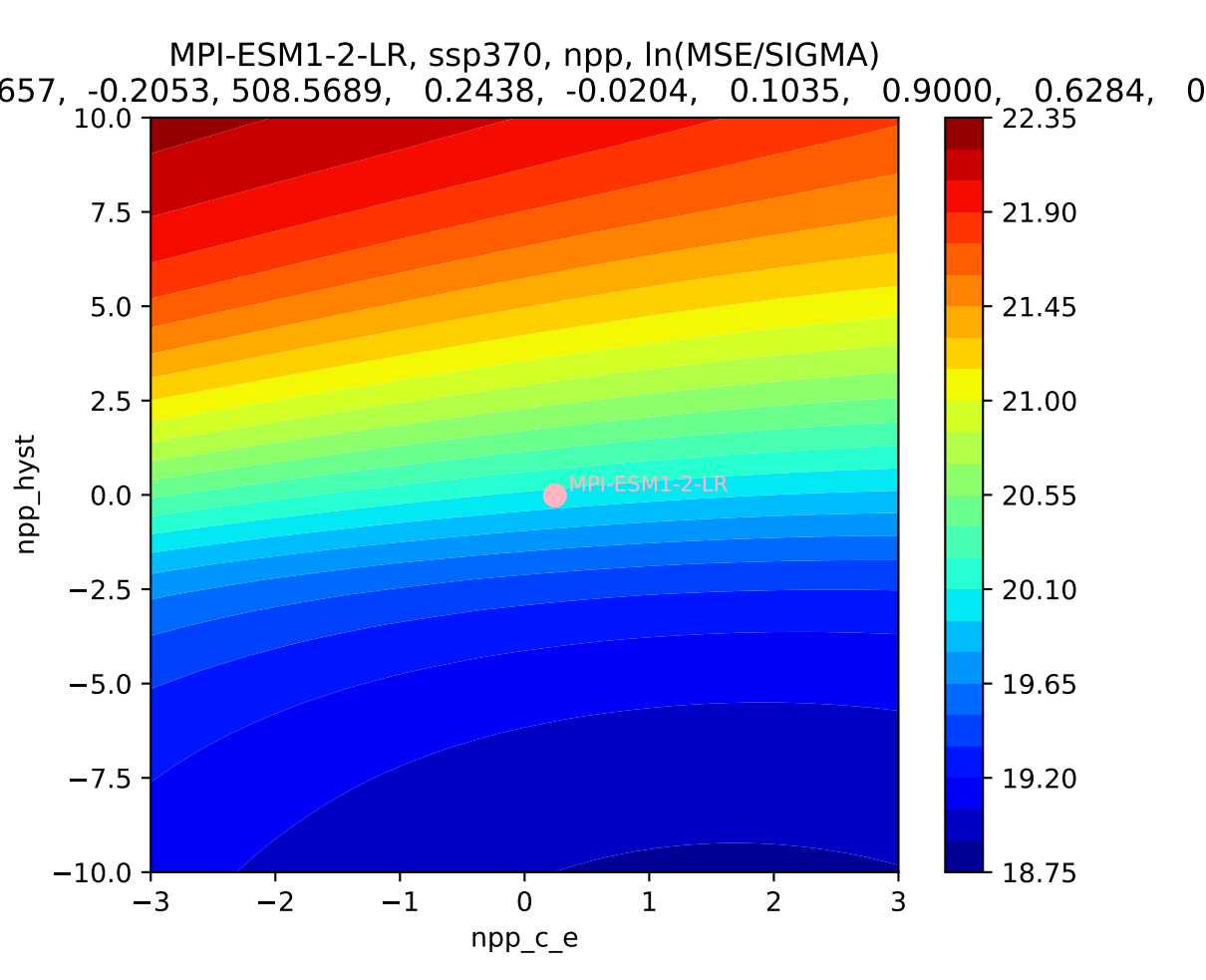

MPI-ESM1-2-LR, ssp370, npp
ESM-Fit
npp, ESM - FIT
ΔT

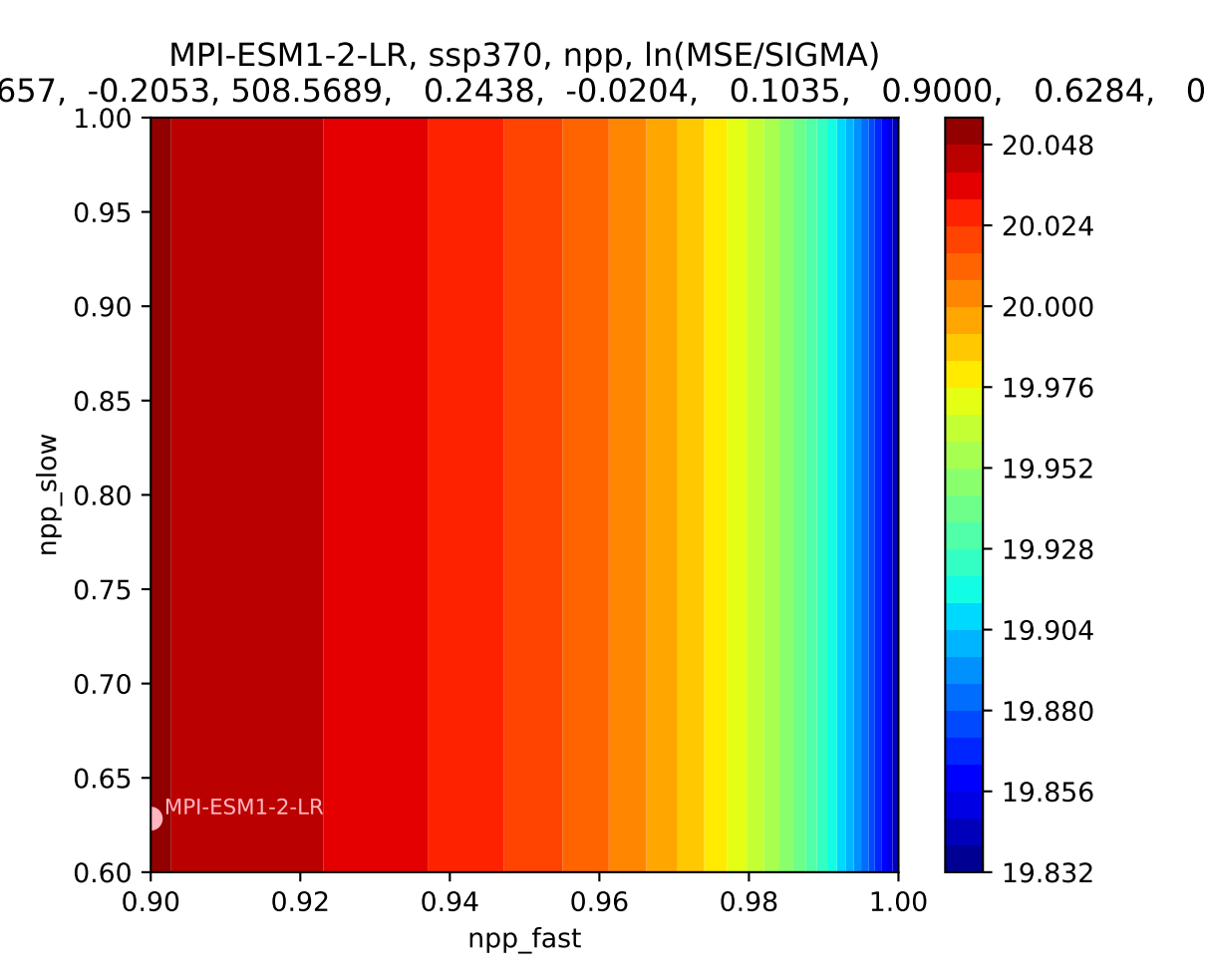

MPI-ESM1-2-LR, ssp370, npp
ESM
Fit
npp
c_atm

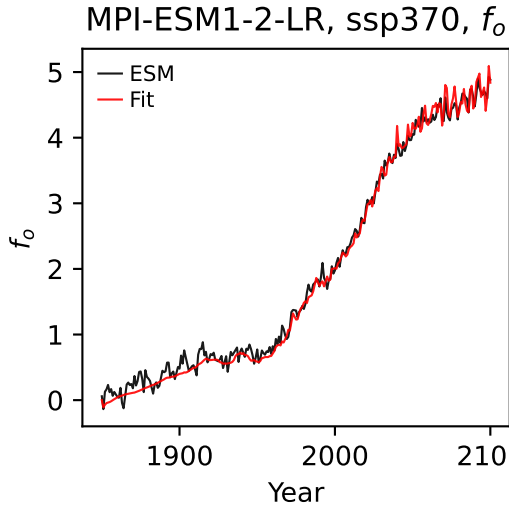

MPI-ESM1-2-LR, ssp370, npp
ESM-Fit
npp, ESM - FIT
c_atm

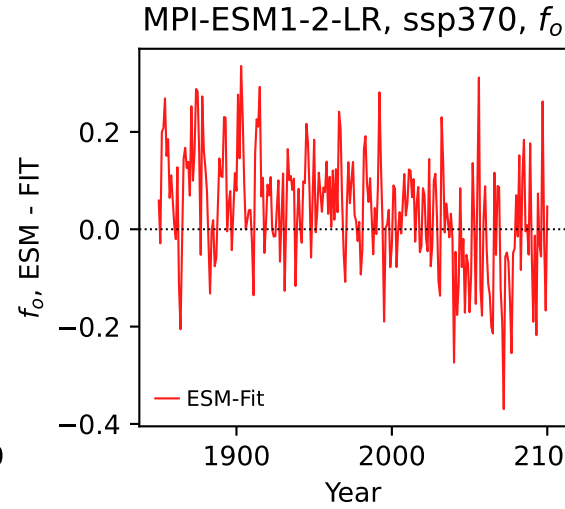

MPI-ESM1-2-LR, ssp370, npp, ln(MSE/SIGMA)
657, -0.2053, 508.5689, 0.2438, -0.0204, 0.1035, 0.9000, 0.6284, 0
MPI-ESM1-2-LR
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05
18.60

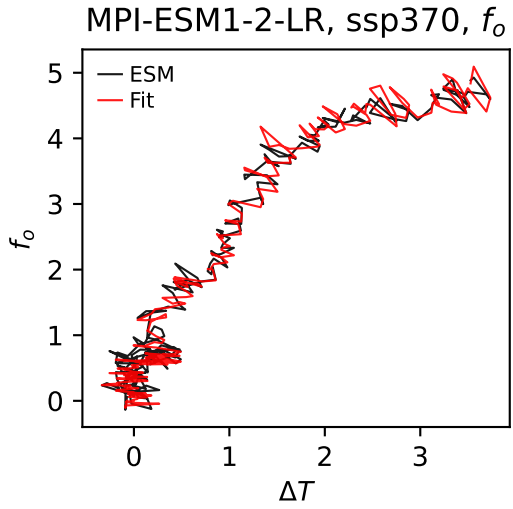

MPI-ESM1-2-LR, ssp370, npp, ln(MSE/SIGMA)
657, -0.2053, 508.5689, 0.2438, -0.0204, 0.1035, 0.9000, 0.6284, 0
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
MPI-ESM1-2-LR
20.52
20.40
20.28
20.16
20.04
19.92
19.80
19.68
19.56
19.44

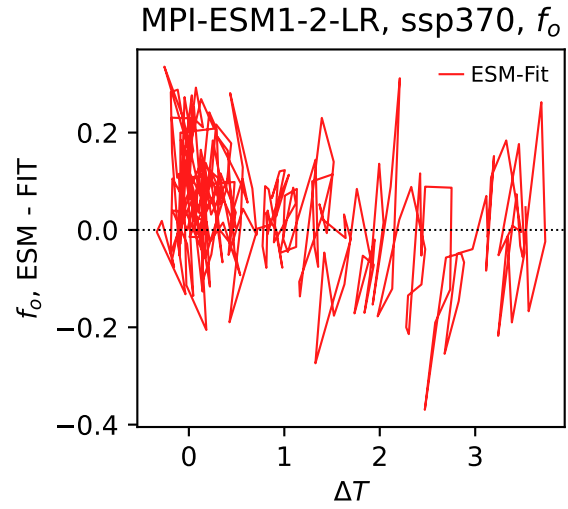

MPI-ESM1-2-LR, ssp370, npp, ln(MSE/SIGMA)
657, -0.2053, 508.5689, 0.2438, -0.0204, 0.1035, 0.9000, 0.6284, 0
MPI-ESM1-2-LR
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.35
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75

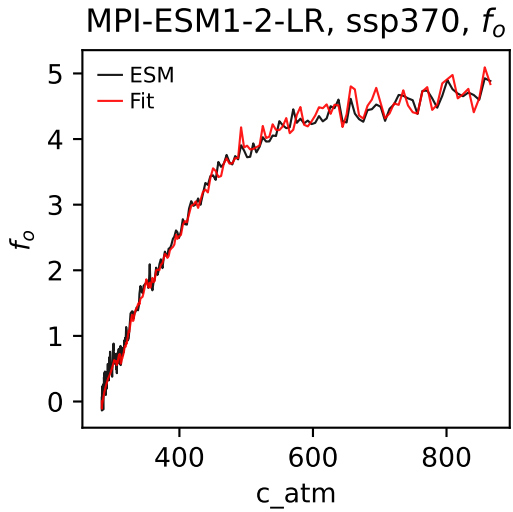

MPI-ESM1-2-LR, ssp370, npp, ln(MSE/SIGMA)
657, -0.2053, 508.5689, 0.2438, -0.0204, 0.1035, 0.9000, 0.6284, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
MPI-ESM1-2-LR
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
20.048
20.024
20.000
19.976
19.952
19.928
19.904
19.880
19.856
19.832

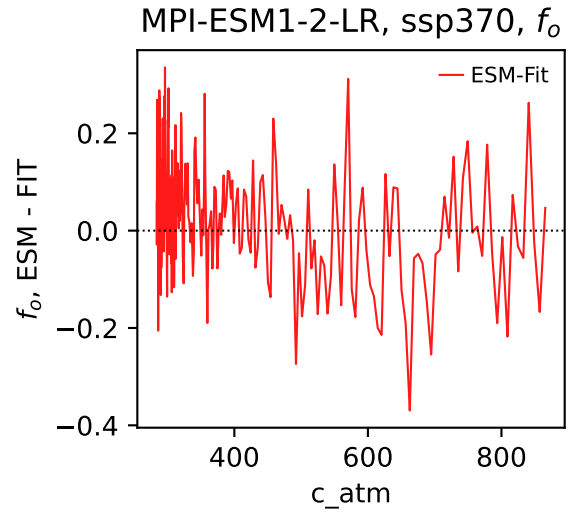

MPI-ESM1-2-LR, ssp370, f_o
ESM
Fit
f_o
Year

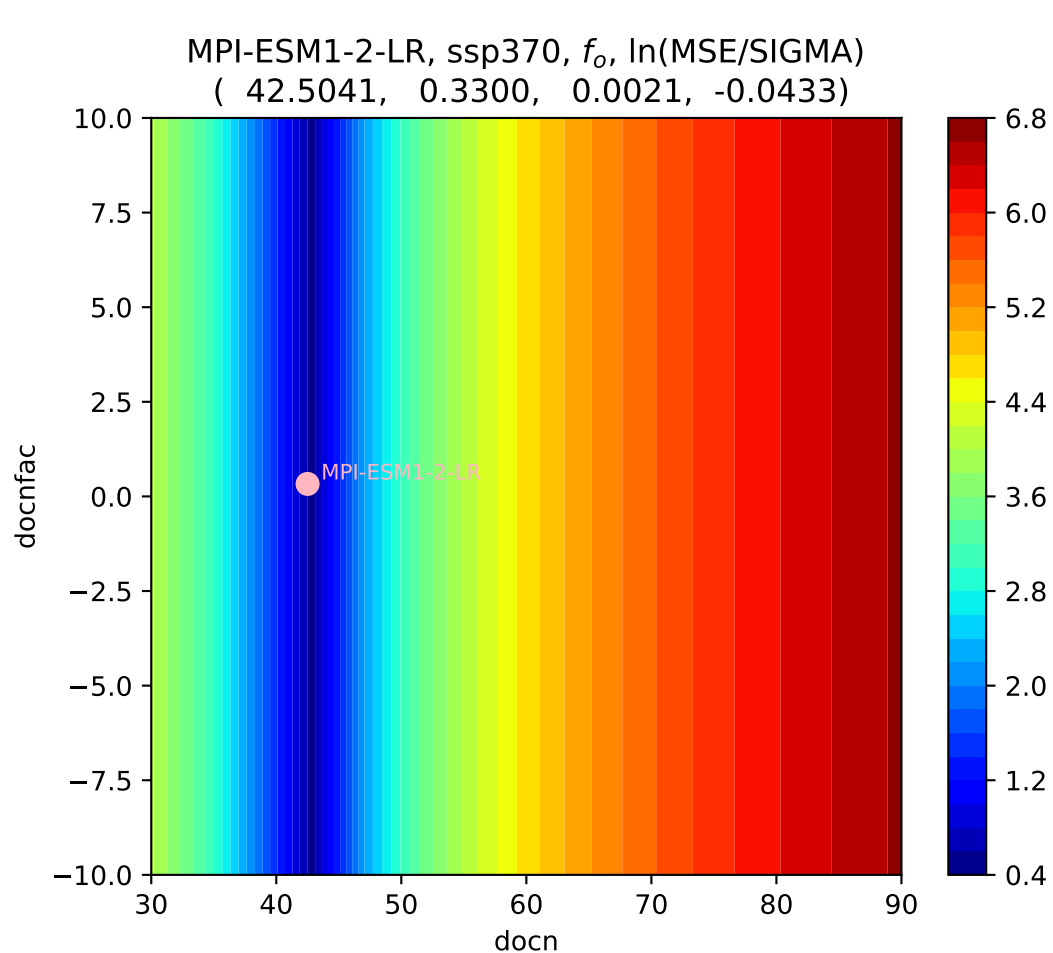

MPI-ESM1-2-LR, ssp370, f_o
ESM-Fit
f_o, ESM - FIT
Year

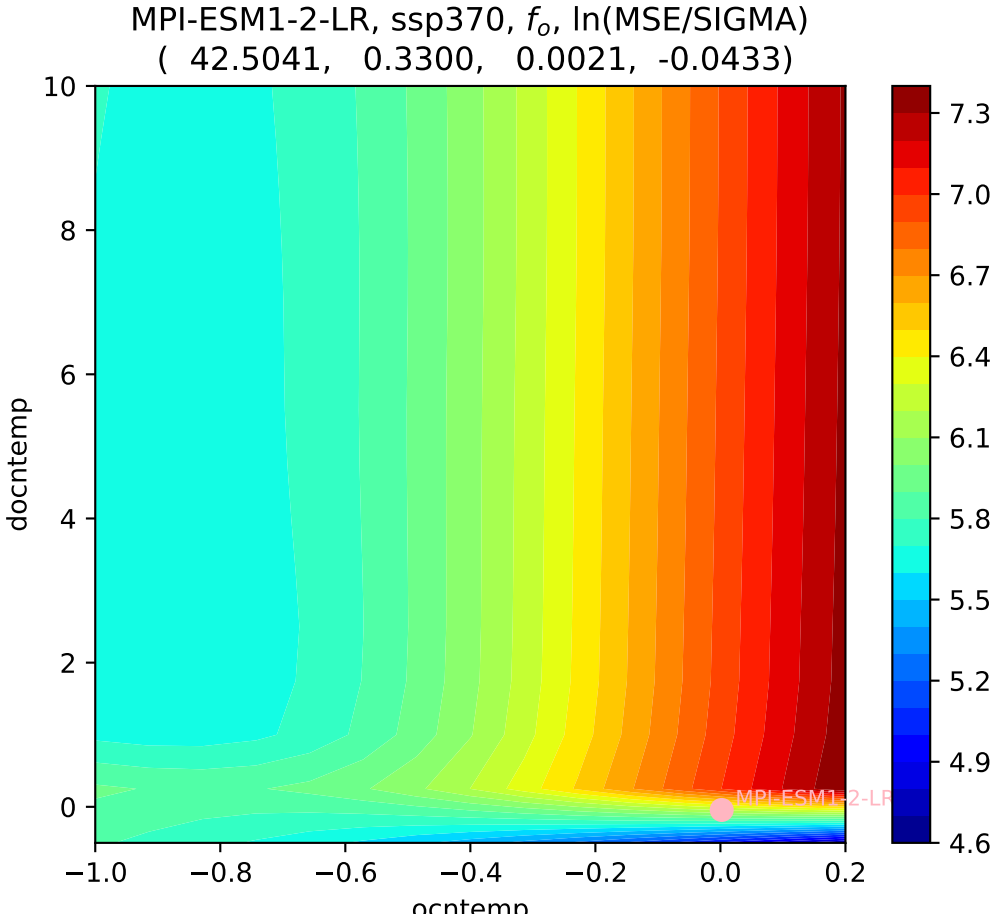

MPI-ESM1-2-LR, ssp370, f_o
ESM
Fit
f_o
ΔT


MPI-ESM1-2-LR, ssp370, f_o
ESM-Fit
f_o, ESM - FIT
ΔT


MPI-ESM1-2-LR, ssp370, f_o
ESM
Fit
f_o
c_atm


MPI-ESM1-2-LR, ssp370, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


MPI-ESM1-2-LR, ssp370, f_o, ln(MSE/SIGMA)
(42.5041, 0.3300, 0.0021, -0.0433)
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
6.8
6.0
5.2
4.4
3.6
2.8
2.0
1.2
0.4


MPI-ESM1-2-LR, ssp370, f_o, ln(MSE/SIGMA)
(42.5041, 0.3300, 0.0021, -0.0433)
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
7.3
7.0
6.7
6.4
6.1
5.8
5.5
5.2
4.9
4.6
MPI-ESM1-2-LR