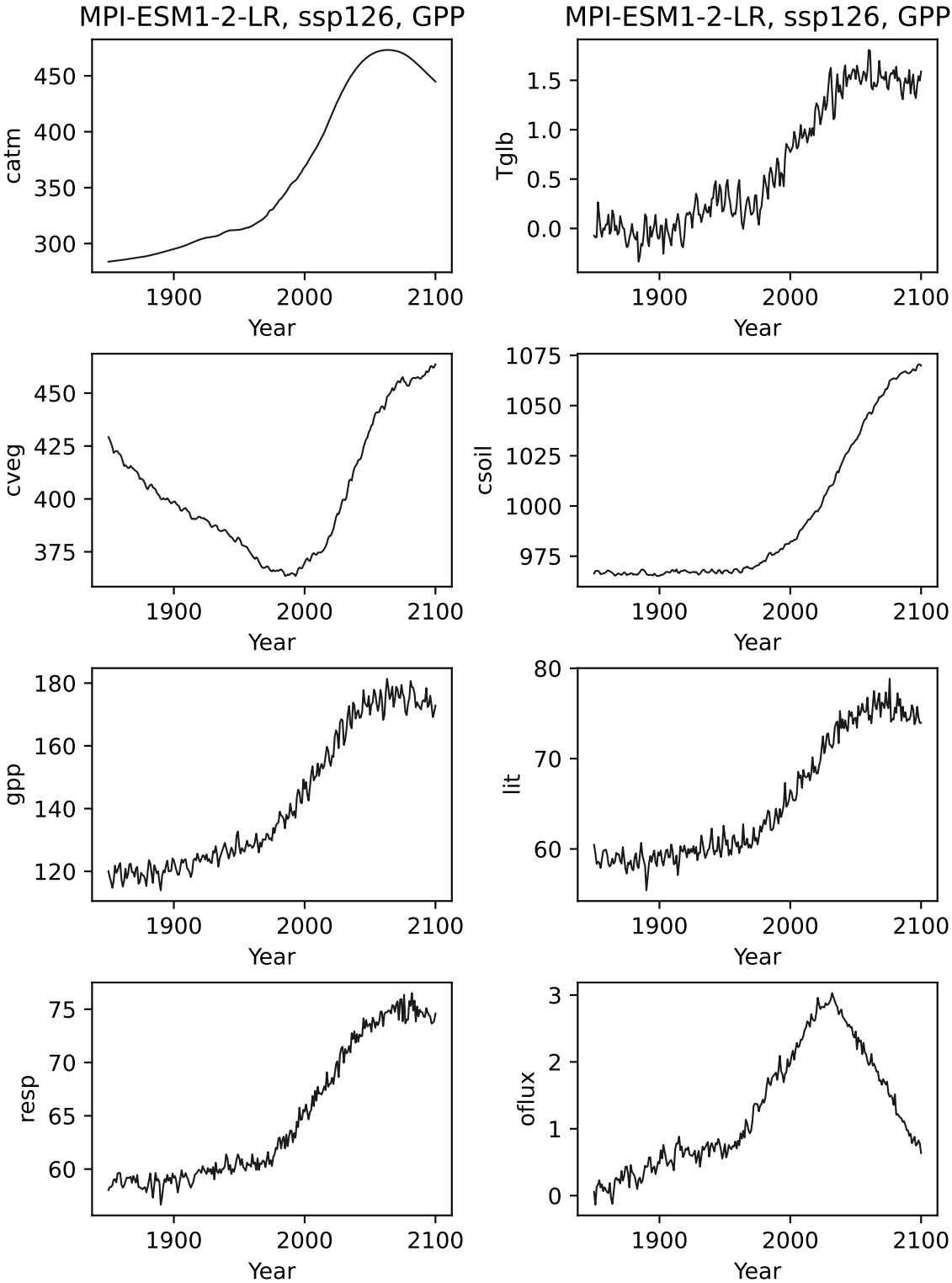
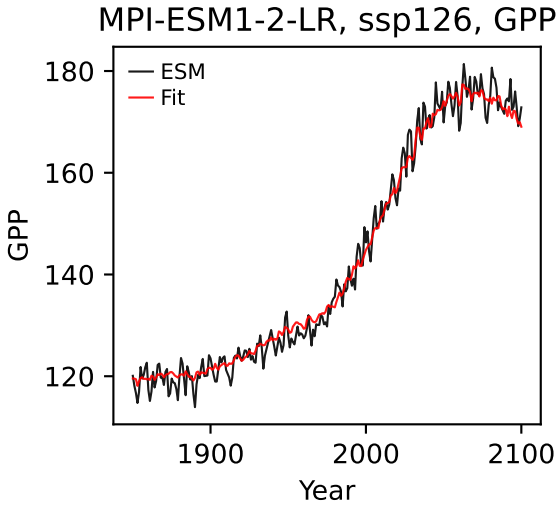
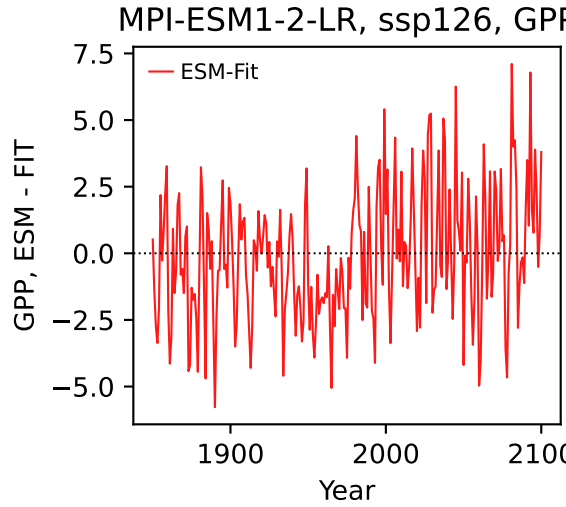
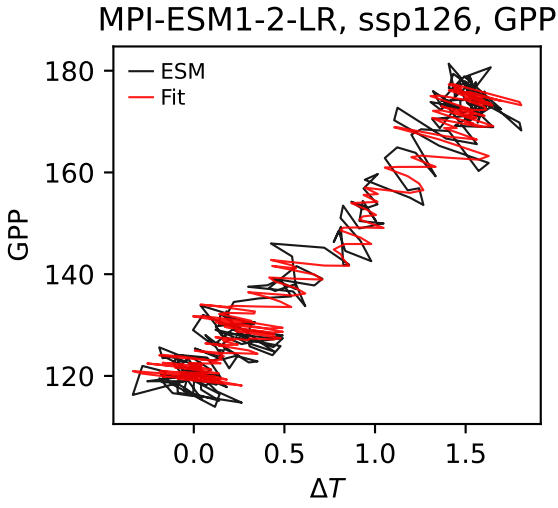
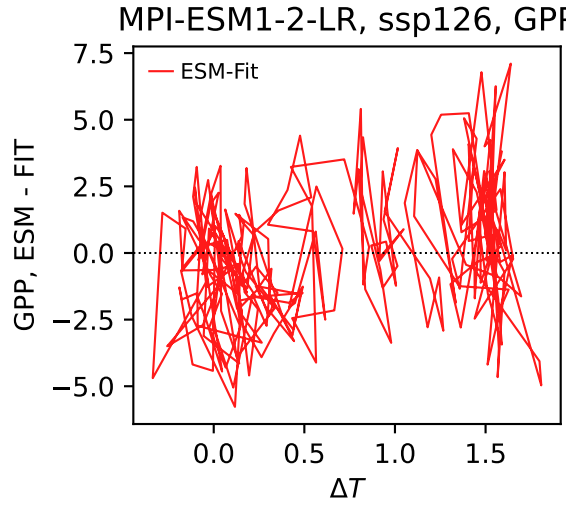
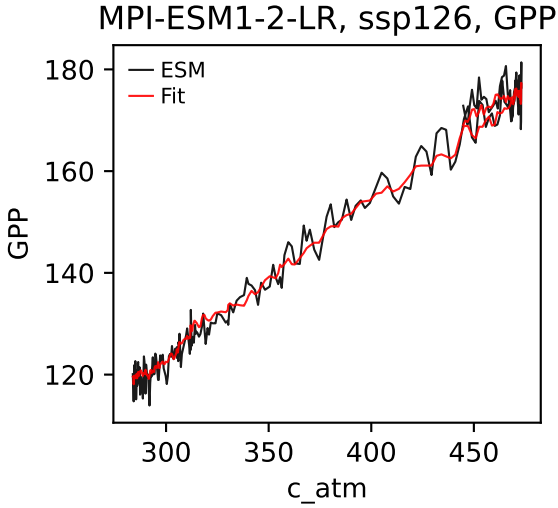

MPI-ESM1-2-LR, ssp126, GPP
catm
Year
MPI-ESM1-2-LR, ssp126, GPP
Tglb
Year
cveg
Year
csoil
Year
gpp
Year
lit
Year
resp
Year
oflux
Year

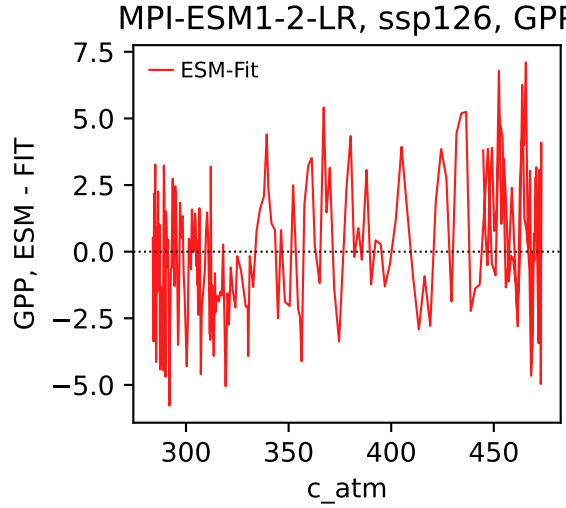

MPI-ESM1-2-LR, ssp126, GPP
ESM
Fit
GPP
Year

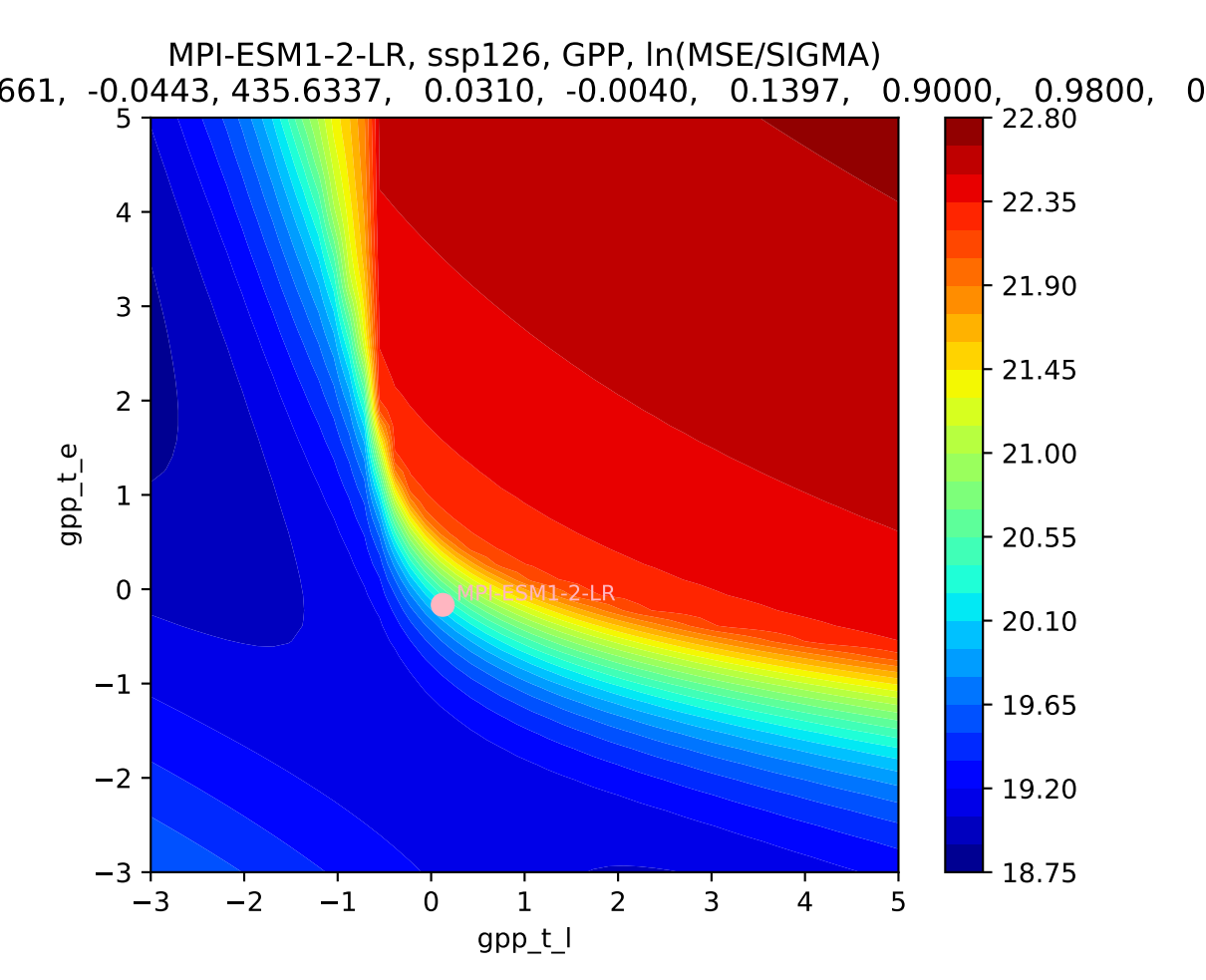

MPI-ESM1-2-LR, ssp126, GPP
ESM-Fit
GPP, ESM - FIT
Year

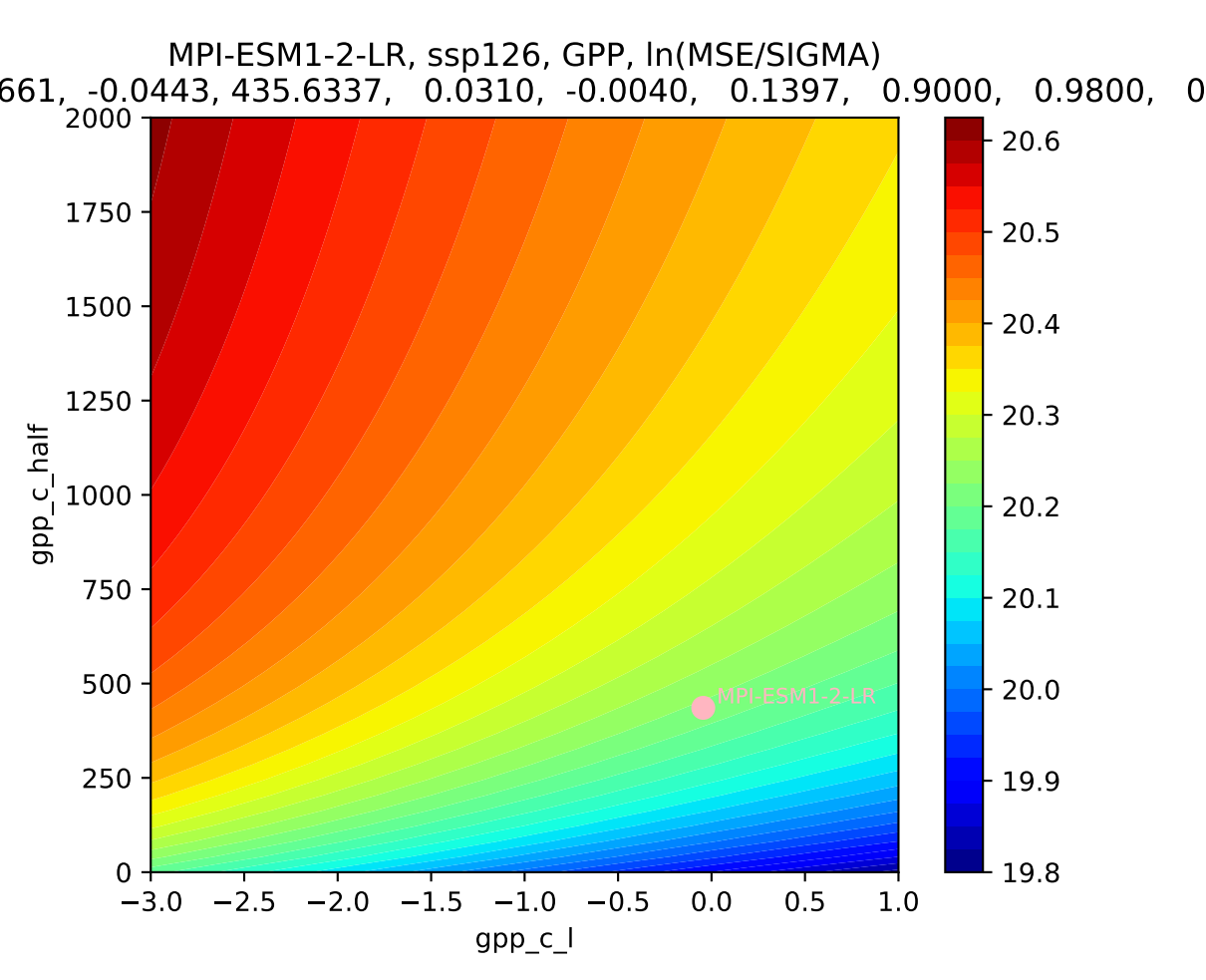

MPI-ESM1-2-LR, ssp126, GPP
ESM
Fit
GPP
ΔT

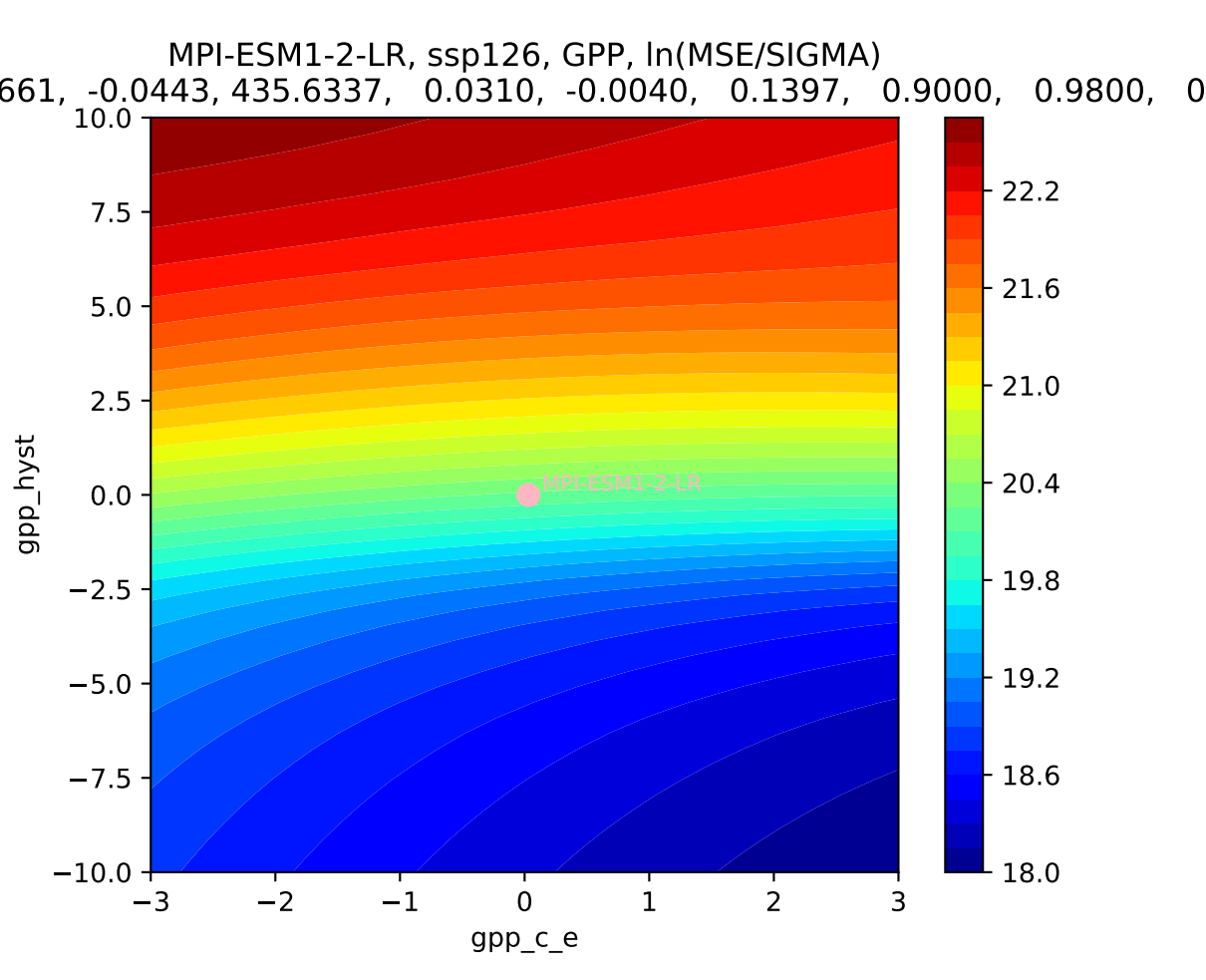

MPI-ESM1-2-LR, ssp126, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

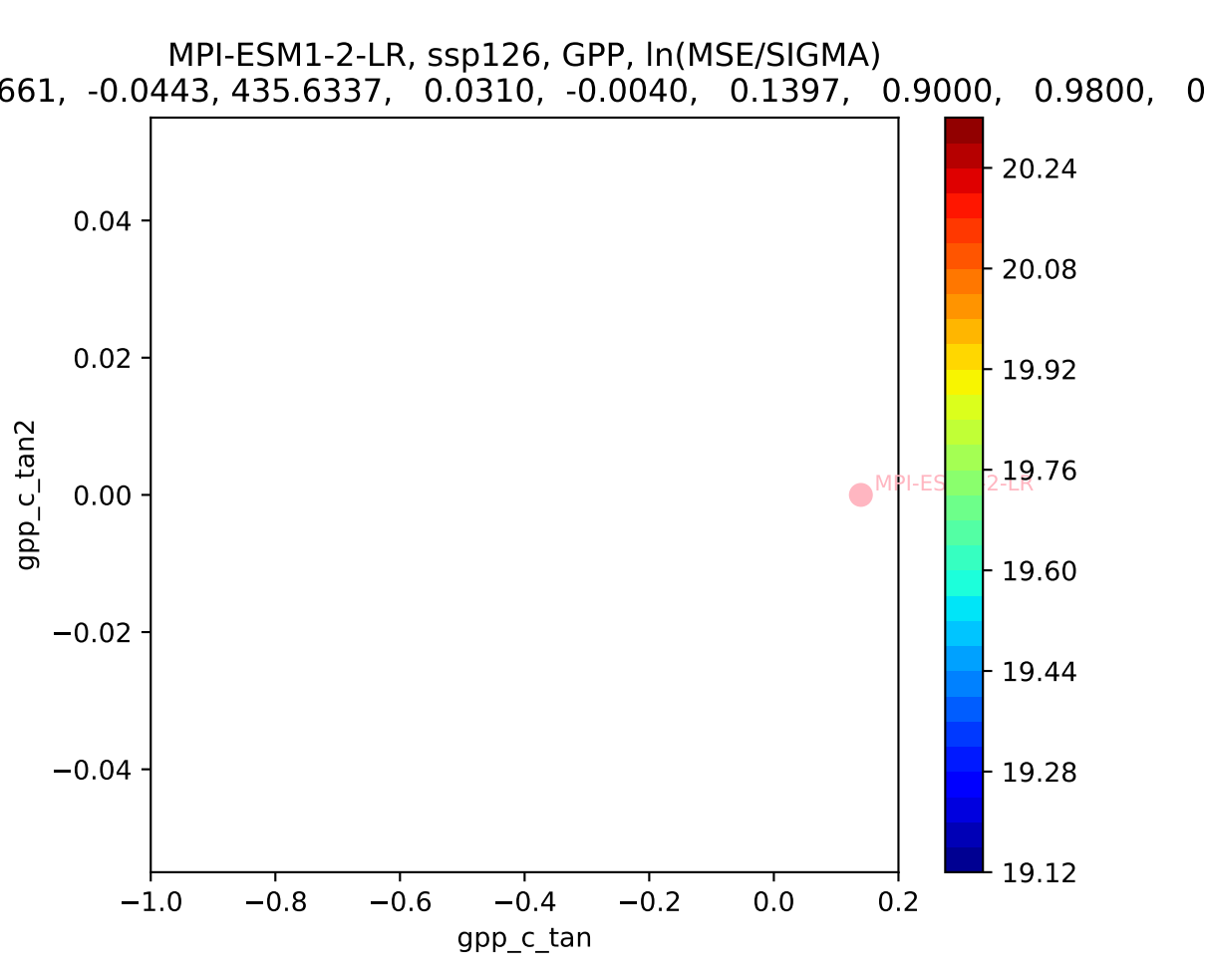

MPI-ESM1-2-LR, ssp126, GPP
ESM
Fit
GPP
c_atm

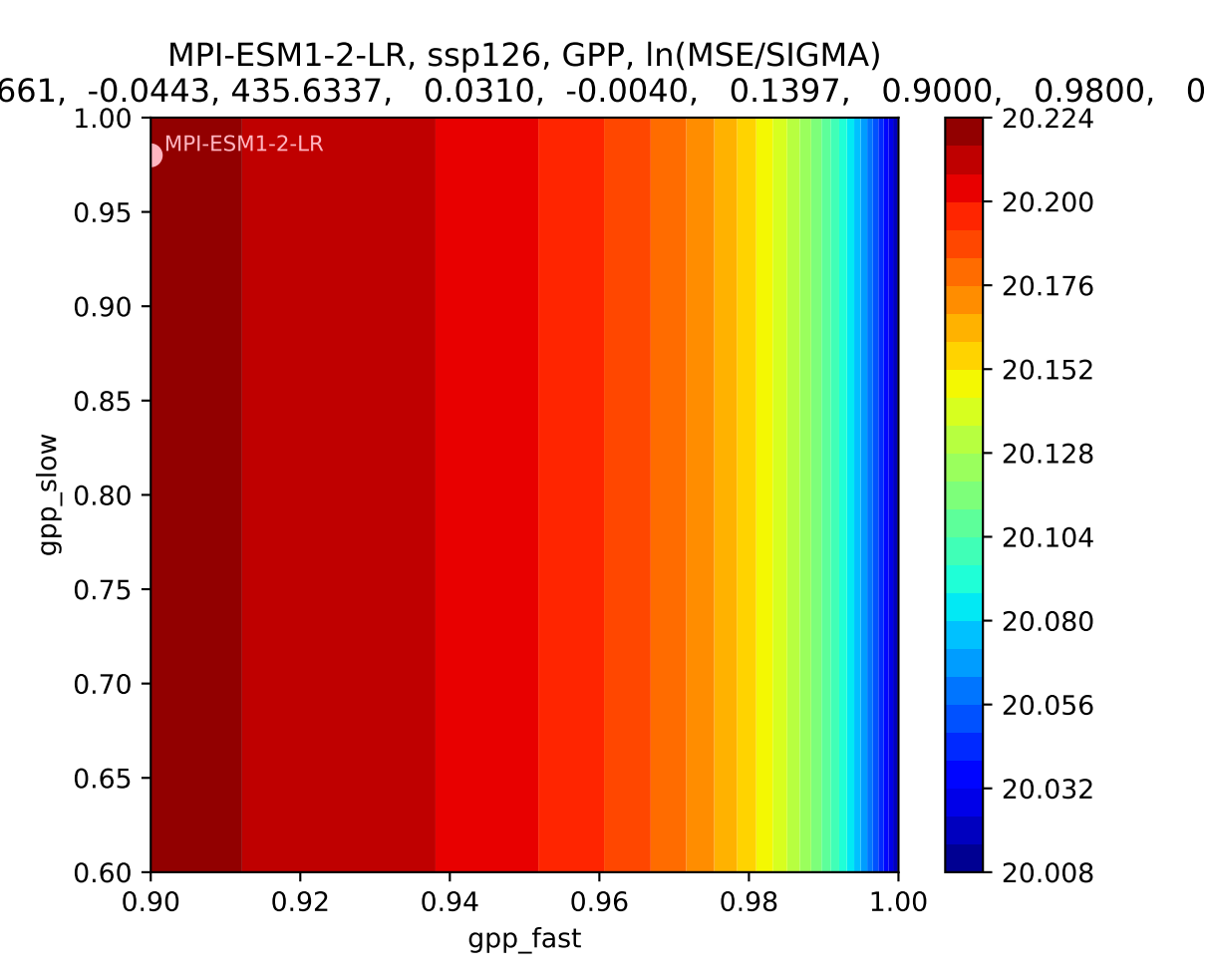

MPI-ESM1-2-LR, ssp126, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

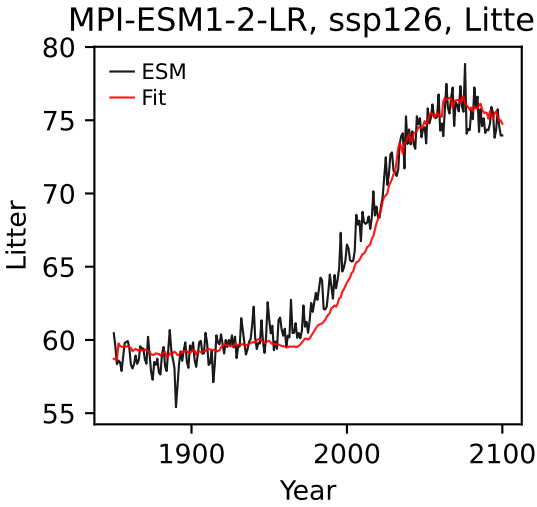

MPI-ESM1-2-LR, ssp126, GPP, ln(MSE/SIGMA)
661, -0.0443, 435.6337, 0.0310, -0.0040, 0.1397, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
22.80
22.35
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75

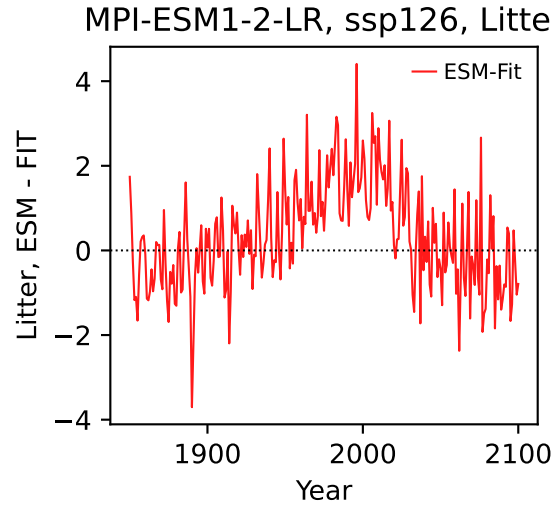

MPI-ESM1-2-LR, ssp126, GPP, ln(MSE/SIGMA)
661, -0.0443, 435.6337, 0.0310, -0.0040, 0.1397, 0.9000, 0.9800, 0
gpp_c_half
gpp_c_l
MPI-ESM1-2-LR
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
20.6
20.5
20.4
20.3
20.2
20.1
20.0
19.9
19.8

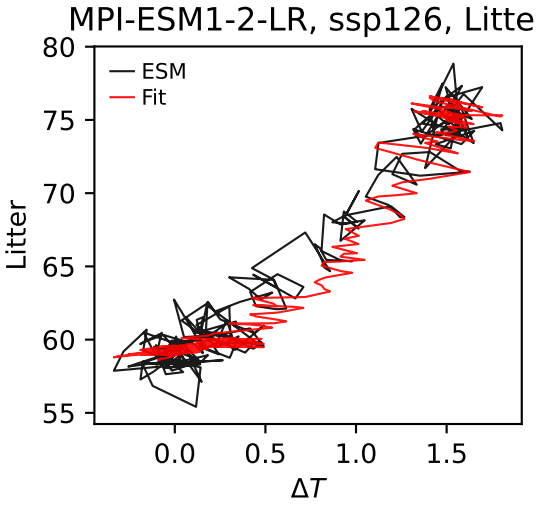

MPI-ESM1-2-LR, ssp126, GPP, ln(MSE/SIGMA)
661, -0.0443, 435.6337, 0.0310, -0.0040, 0.1397, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0

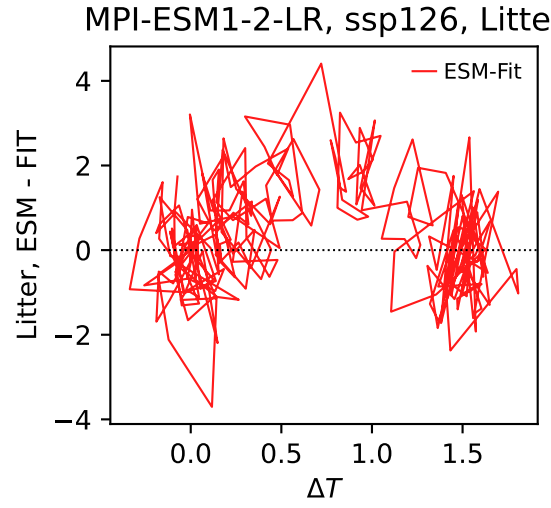

MPI-ESM1-2-LR, ssp126, GPP, ln(MSE/SIGMA)
661, -0.0443, 435.6337, 0.0310, -0.0040, 0.1397, 0.9000, 0.9800, 0
gpp_c_tan2
gpp_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
20.24
20.08
19.92
19.76
19.60
19.44
19.28
19.12

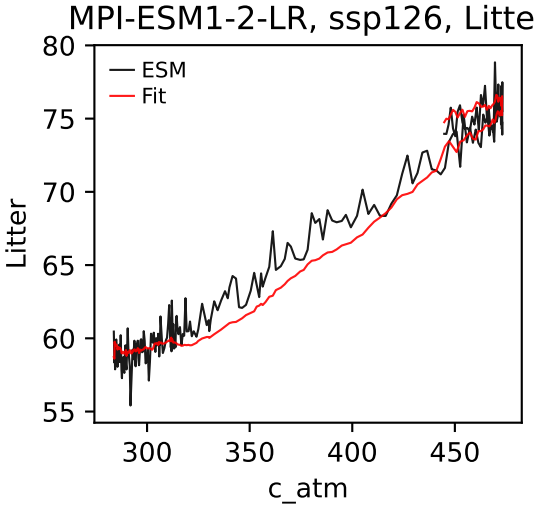

MPI-ESM1-2-LR, ssp126, GPP, ln(MSE/SIGMA)
661, -0.0443, 435.6337, 0.0310, -0.0040, 0.1397, 0.9000, 0.9800, 0
MPI-ESM1-2-LR
gpp_slow
gpp_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
20.224
20.200
20.176
20.152
20.128
20.104
20.080
20.056
20.032
20.008

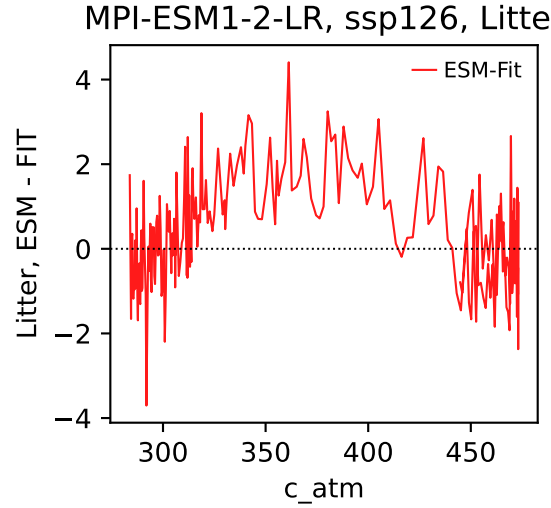

MPI-ESM1-2-LR, ssp126, Litter
ESM
Fit
Litter
Year

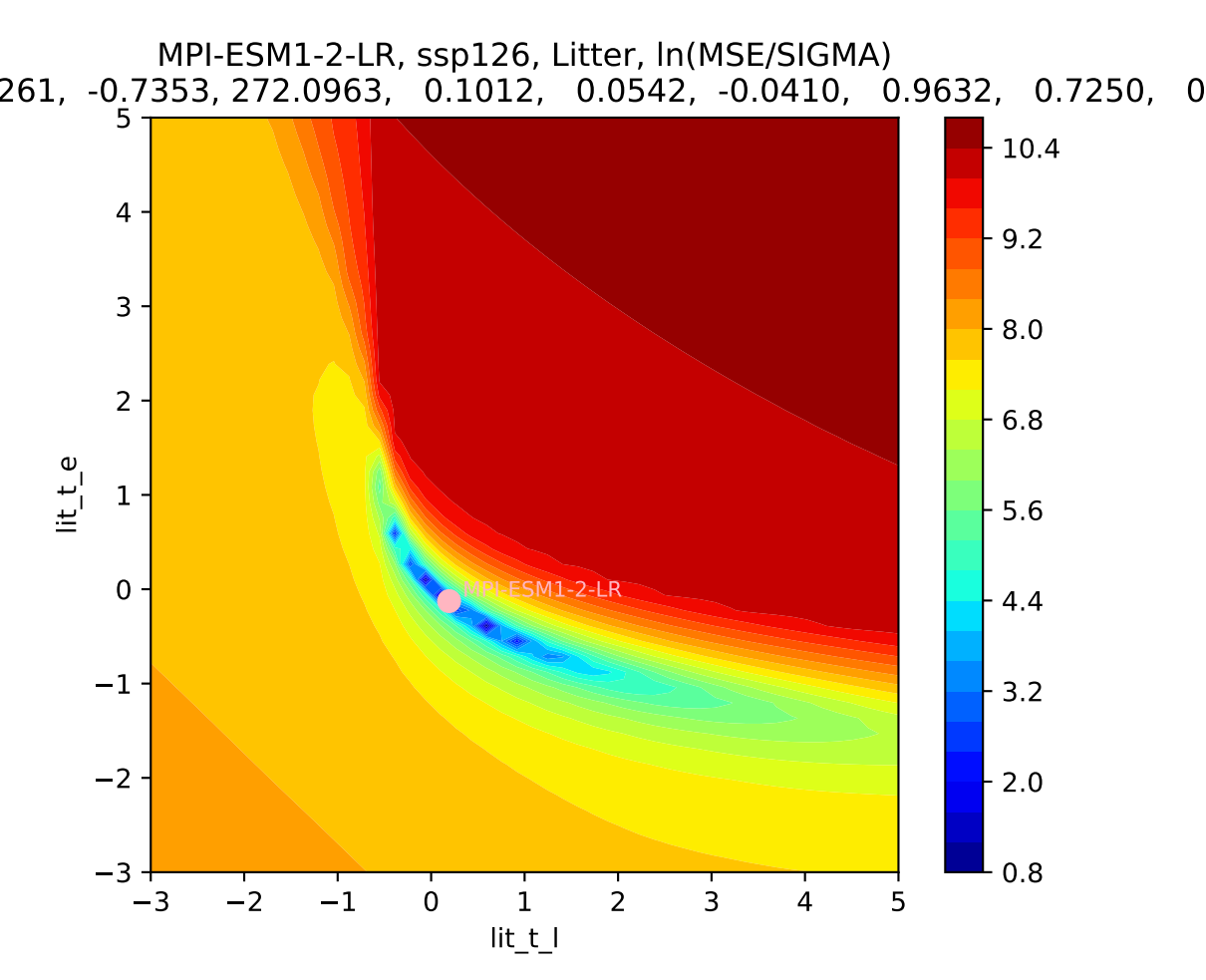

MPI-ESM1-2-LR, ssp126, Litter
ESM-Fit
Litter, ESM - FIT
Year

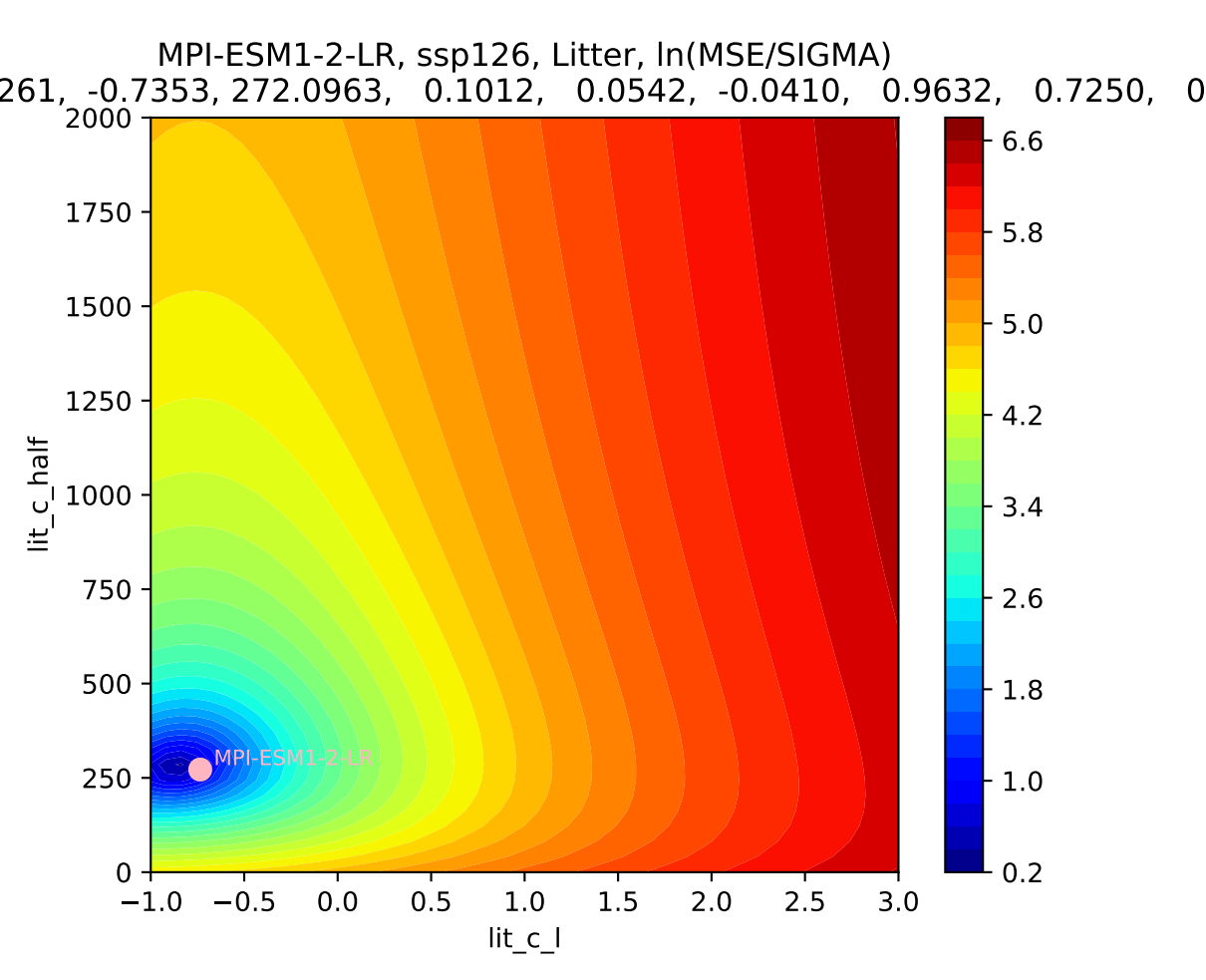

MPI-ESM1-2-LR, ssp126, Litter
ESM
Fit
Litter
ΔT

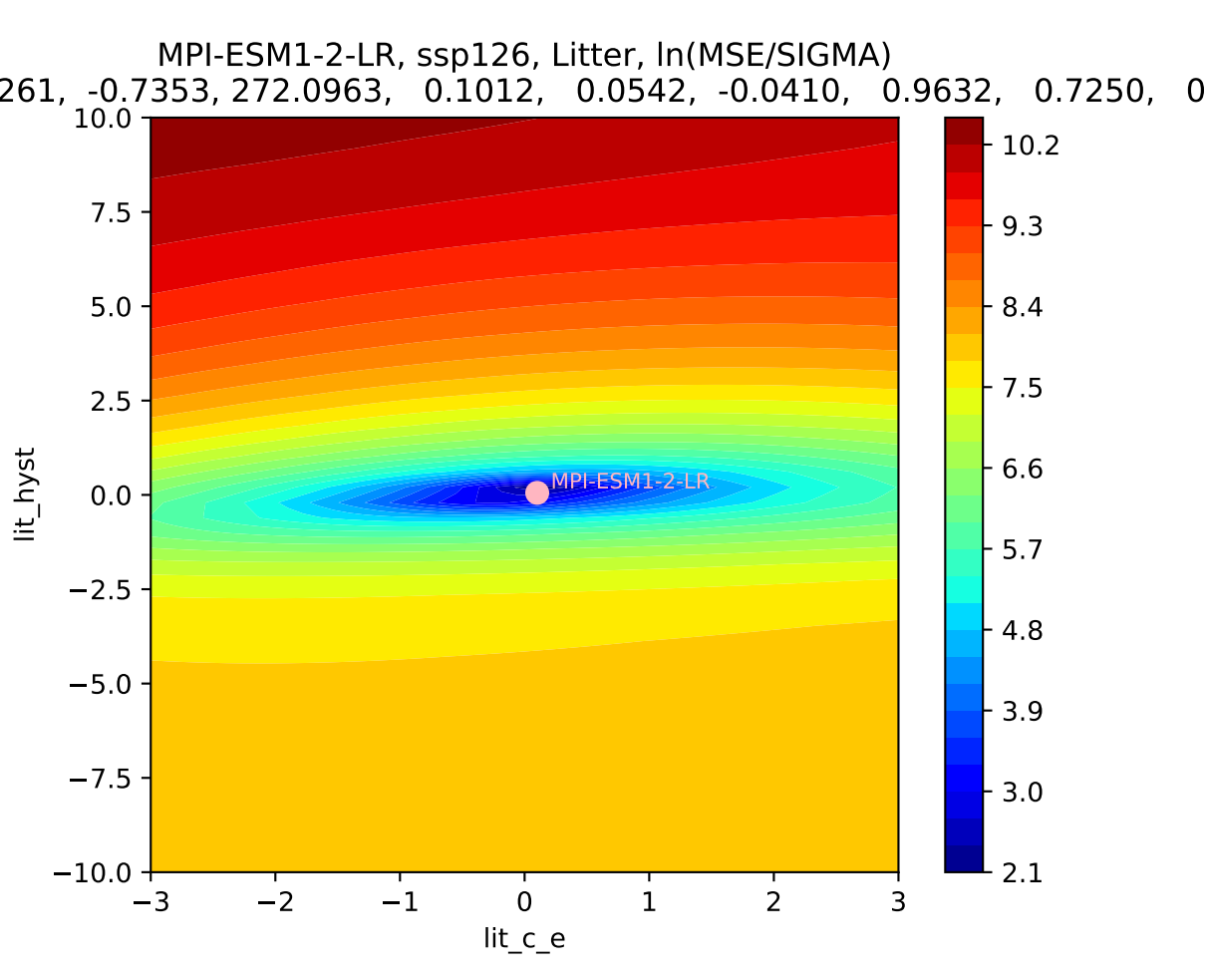

MPI-ESM1-2-LR, ssp126, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

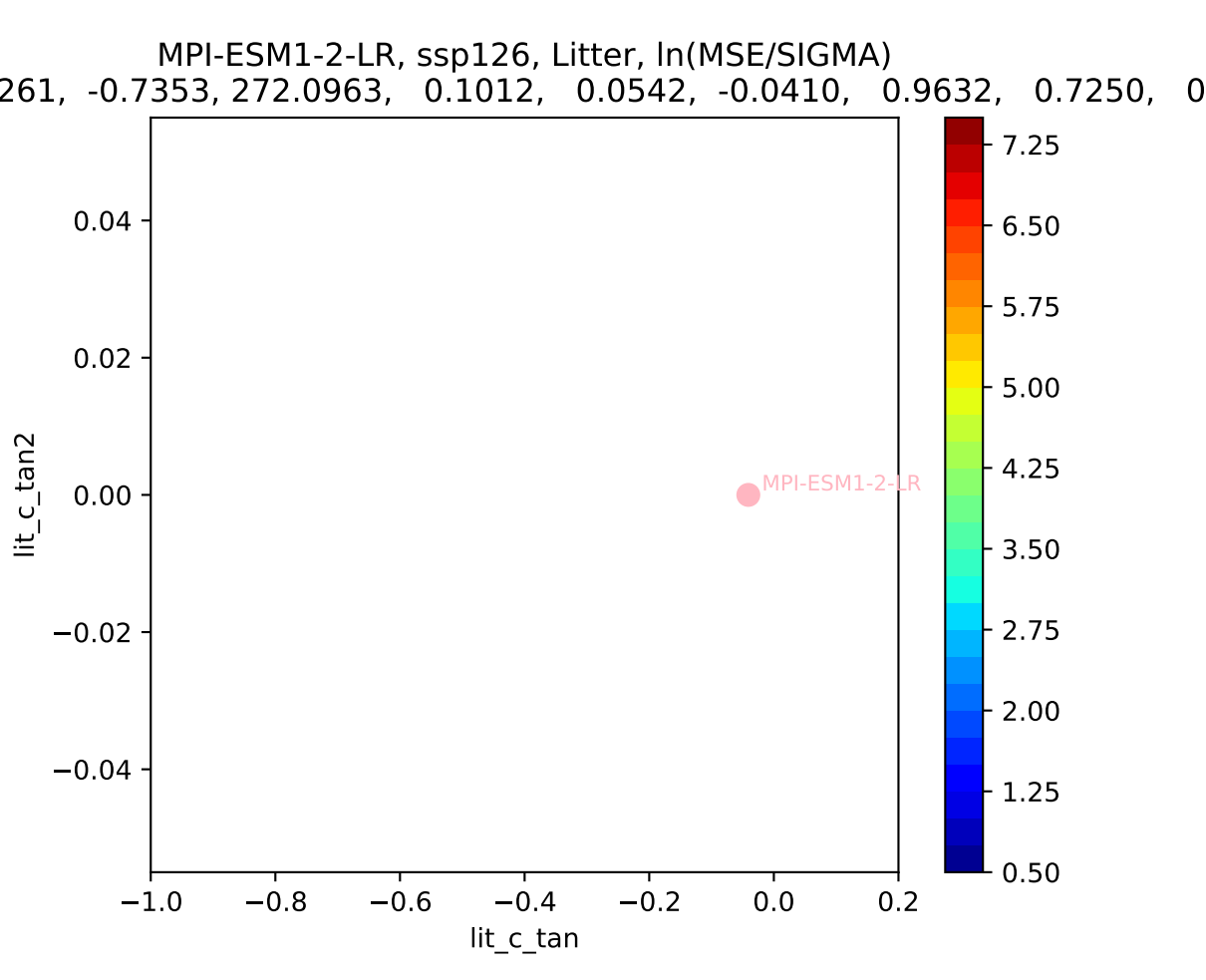

MPI-ESM1-2-LR, ssp126, Litter
ESM
Fit
Litter
c_atm

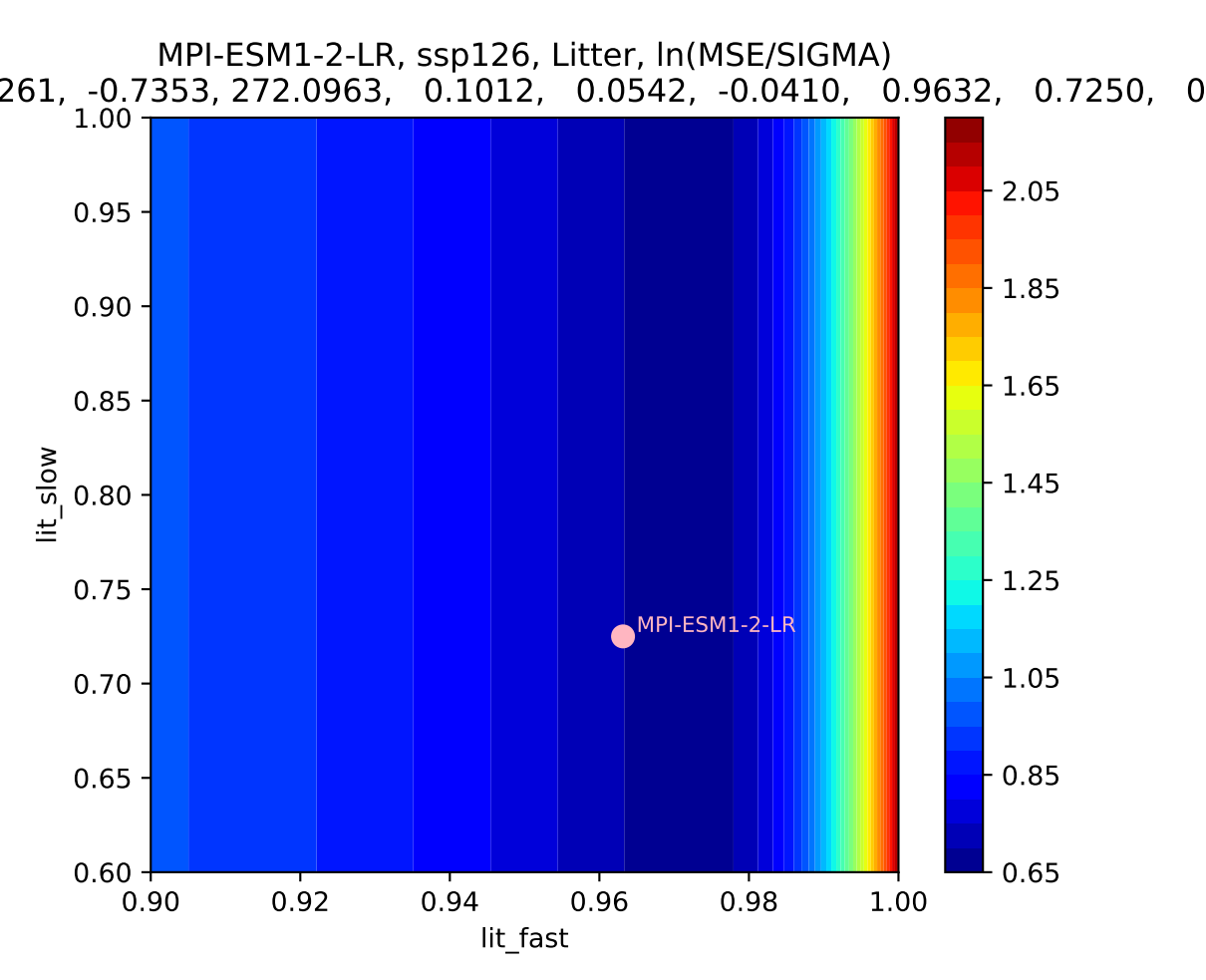

MPI-ESM1-2-LR, ssp126, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

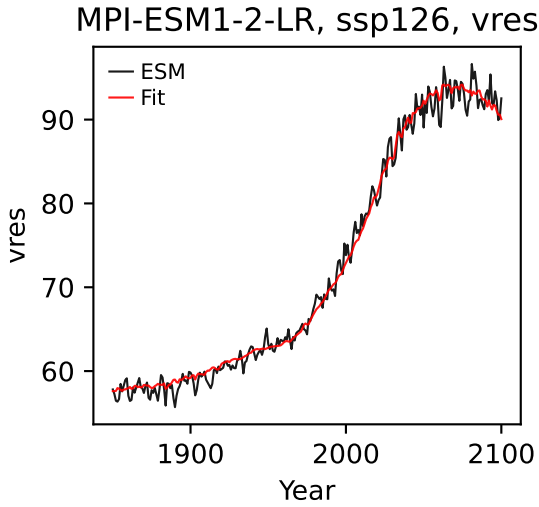

MPI-ESM1-2-LR, ssp126, Litter, ln(MSE/SIGMA)
261, -0.7353, 272.0963, 0.1012, 0.0542, -0.0410, 0.9632, 0.7250, 0
MPI-ESM1-2-LR
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
10.4
9.2
8.0
6.8
5.6
4.4
3.2
2.0
0.8

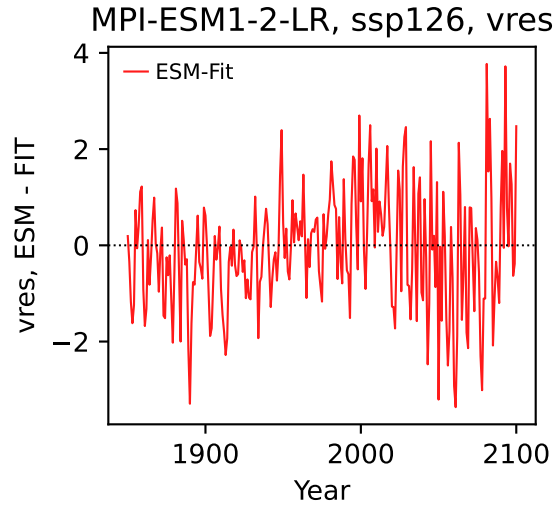

MPI-ESM1-2-LR, ssp126, Litter, ln(MSE/SIGMA)
261, -0.7353, 272.0963, 0.1012, 0.0542, -0.0410, 0.9632, 0.7250, 0
lit_c_half
lit_c_l
MPI-ESM1-2-LR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
6.6
5.8
5.0
4.2
3.4
2.6
1.8
1.0
0.2

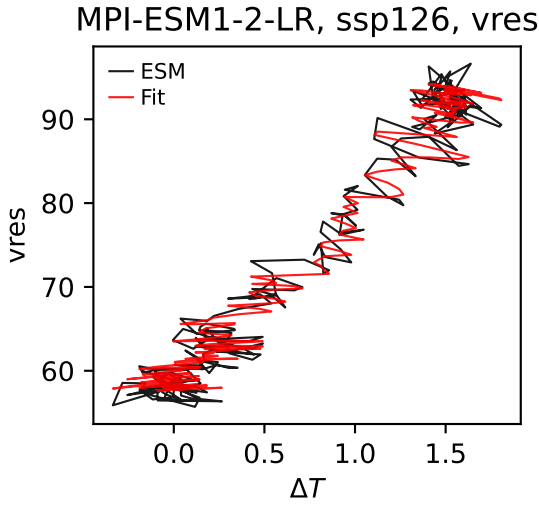

MPI-ESM1-2-LR, ssp126, Litter, ln(MSE/SIGMA)
261, -0.7353, 272.0963, 0.1012, 0.0542, -0.0410, 0.9632, 0.7250, 0
MPI-ESM1-2-LR
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.2
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1

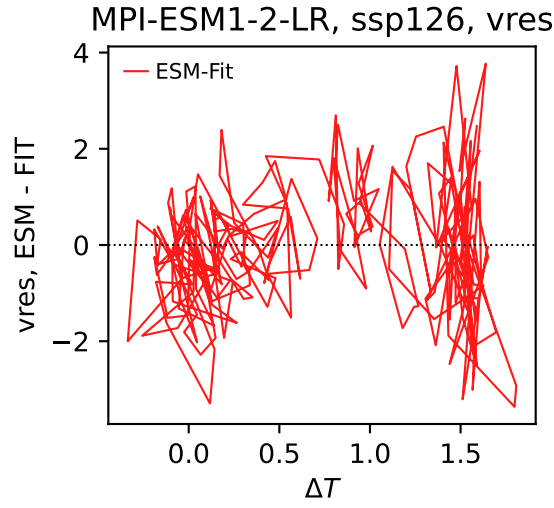

MPI-ESM1-2-LR, ssp126, Litter, ln(MSE/SIGMA)
261, -0.7353, 272.0963, 0.1012, 0.0542, -0.0410, 0.9632, 0.7250, 0
MPI-ESM1-2-LR
lit_c_tan
lit_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
0.04
0.02
0.00
−0.02
−0.04
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00
1.25
0.50

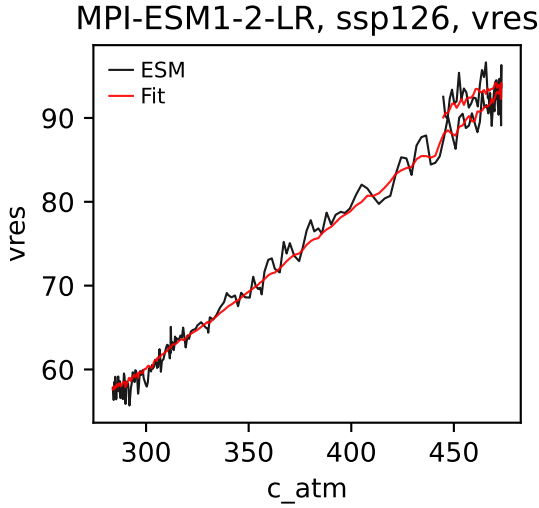

MPI-ESM1-2-LR, ssp126, Litter, ln(MSE/SIGMA)
261, -0.7353, 272.0963, 0.1012, 0.0542, -0.0410, 0.9632, 0.7250, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
lit_slow
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
MPI-ESM1-2-LR
2.05
1.85
1.65
1.45
1.25
1.05
0.85
0.65

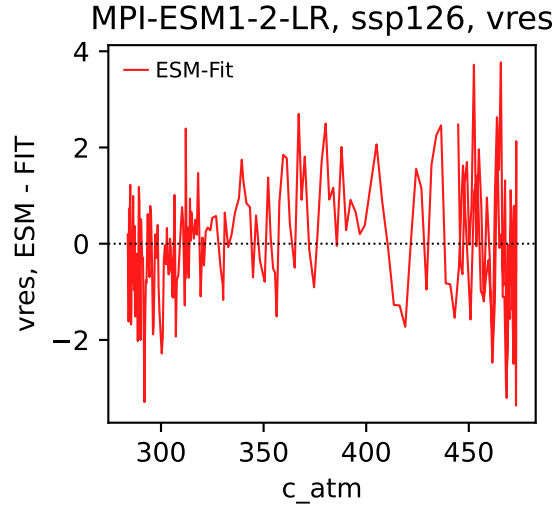

MPI-ESM1-2-LR, ssp126, vres
ESM
Fit
vres
Year

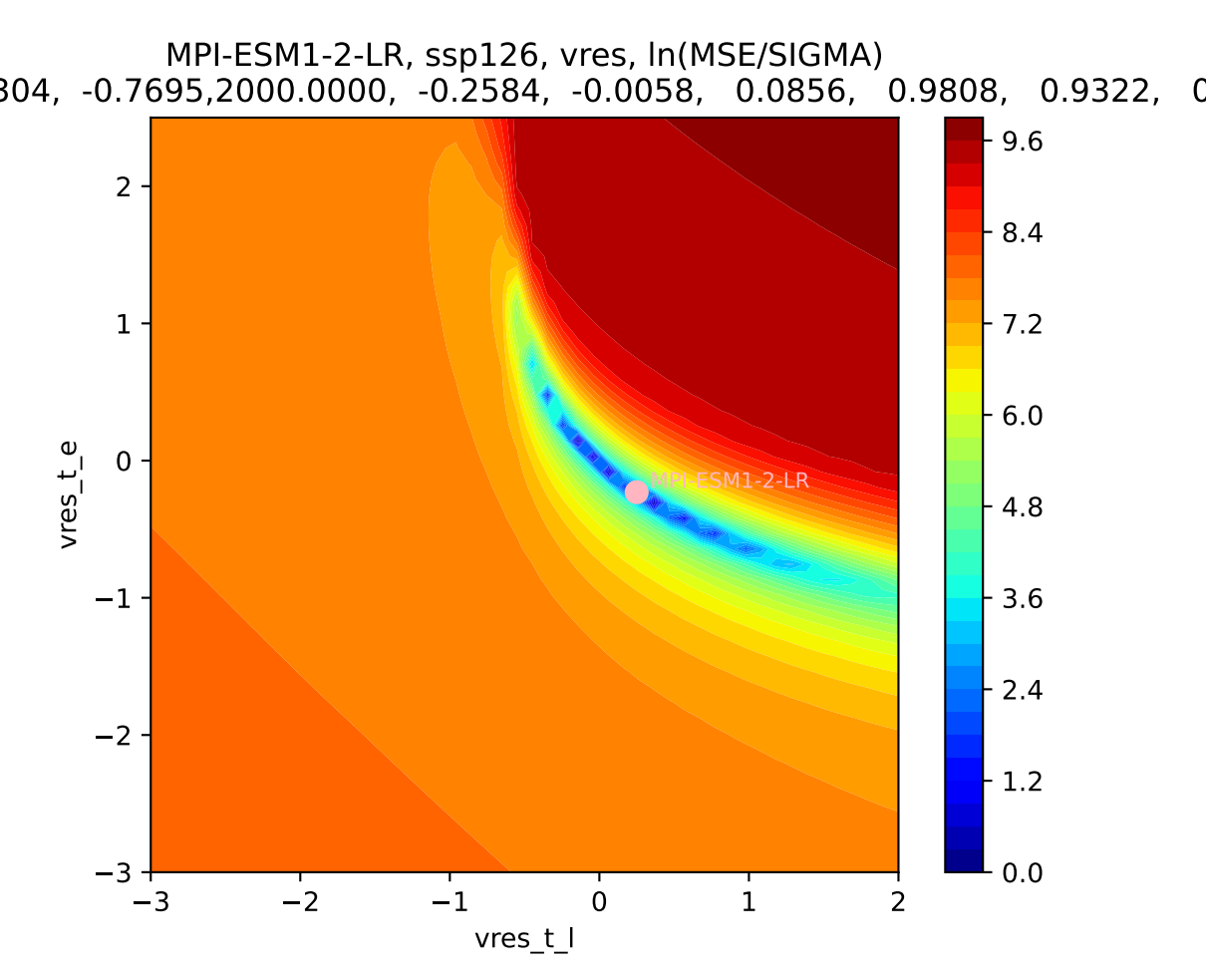

MPI-ESM1-2-LR, ssp126, vres
ESM-Fit
vres, ESM - FIT
Year

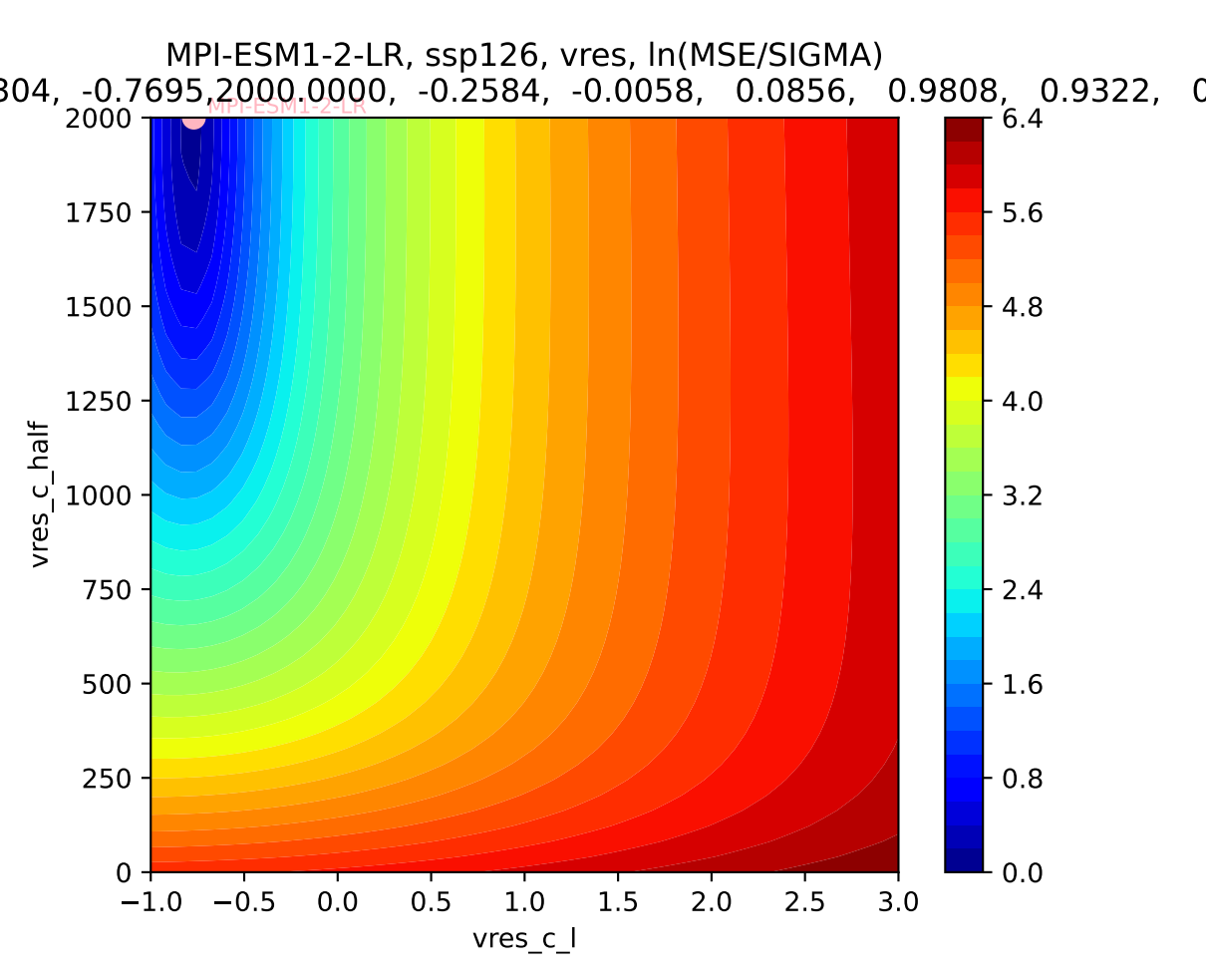

MPI-ESM1-2-LR, ssp126, vres
ESM
Fit
vres
ΔT

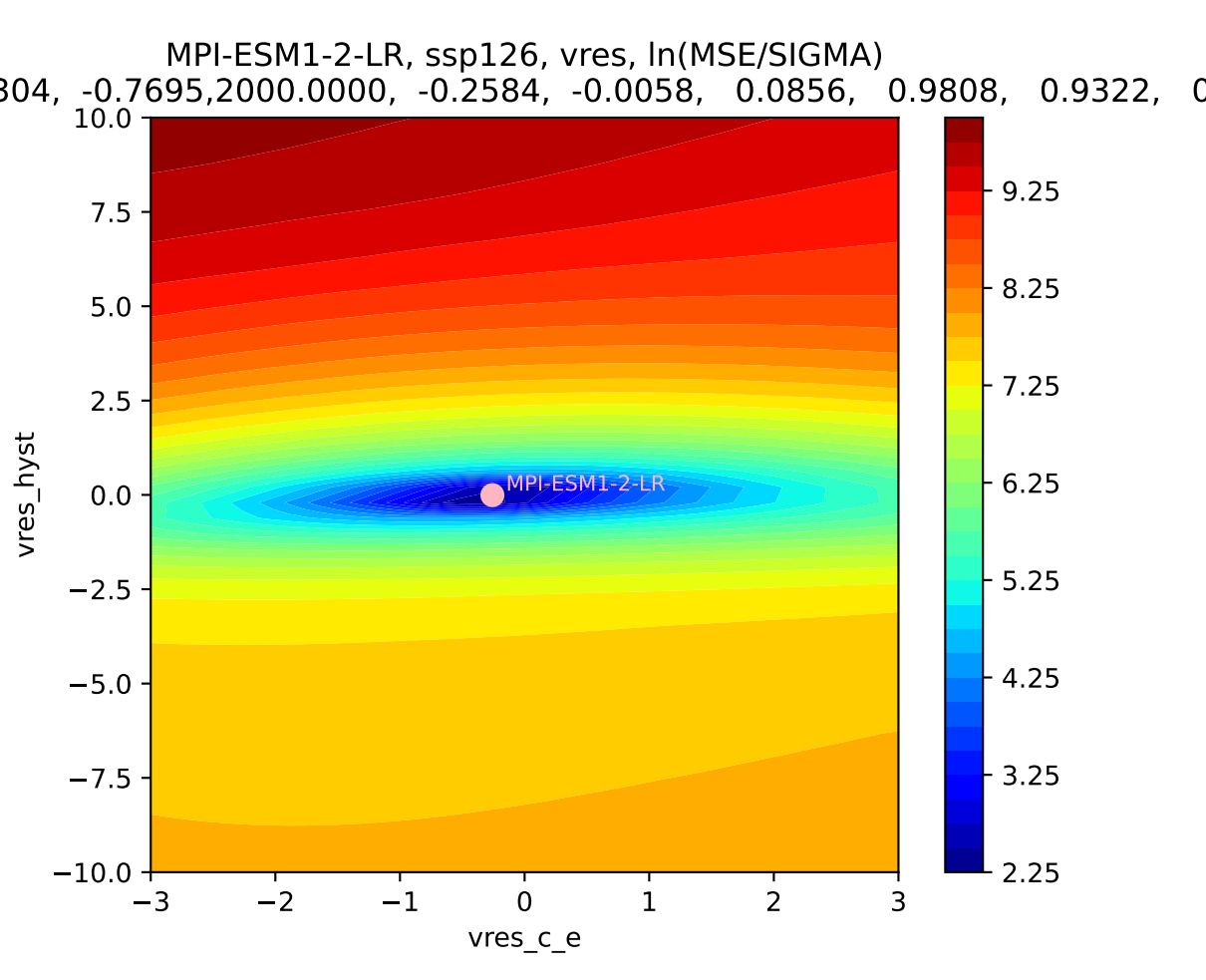

MPI-ESM1-2-LR, ssp126, vres
ESM-Fit
vres, ESM - FIT
ΔT


MPI-ESM1-2-LR, ssp126, vres
ESM
Fit
vres
c_atm


MPI-ESM1-2-LR, ssp126, vres
ESM-Fit
vres, ESM - FIT
c_atm


MPI-ESM1-2-LR, ssp126, vres, ln(MSE/SIGMA)
804, -0.7695,2000.0000, -0.2584, -0.0058, 0.0856, 0.9808, 0.9322, 0
MPI-ESM1-2-LR
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0


MPI-ESM1-2-LR, ssp126, vres, ln(MSE/SIGMA)
804, -0.7695,2000.0000, -0.2584, -0.0058, 0.0856, 0.9808, 0.9322, 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
6.4
5.6
4.8
4.0
3.2
2.4
1.6
0.8
0.0


MPI-ESM1-2-LR, ssp126, vres, ln(MSE/SIGMA)
804, -0.7695,2000.0000, -0.2584, -0.0058, 0.0856, 0.9808, 0.9322, 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
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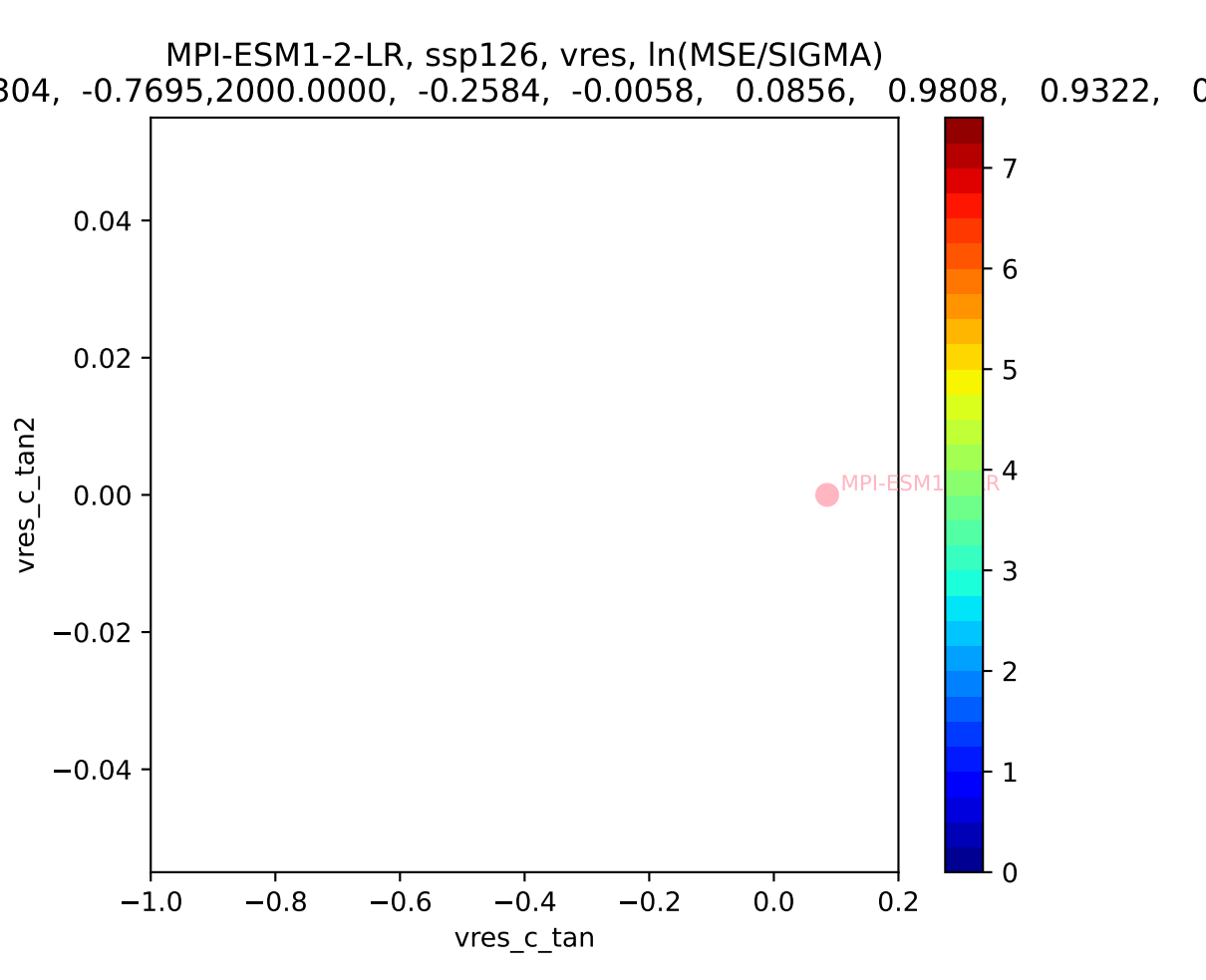
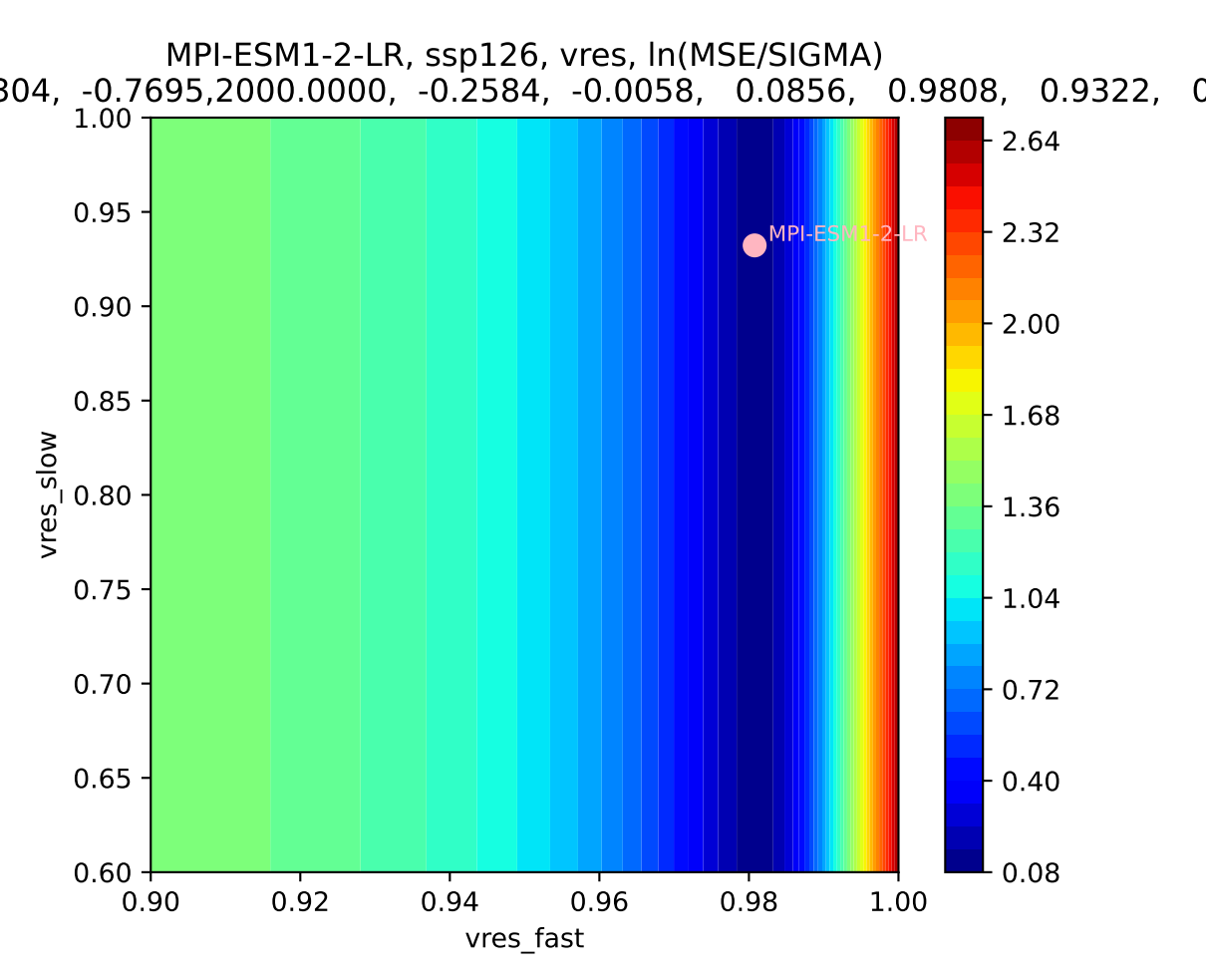
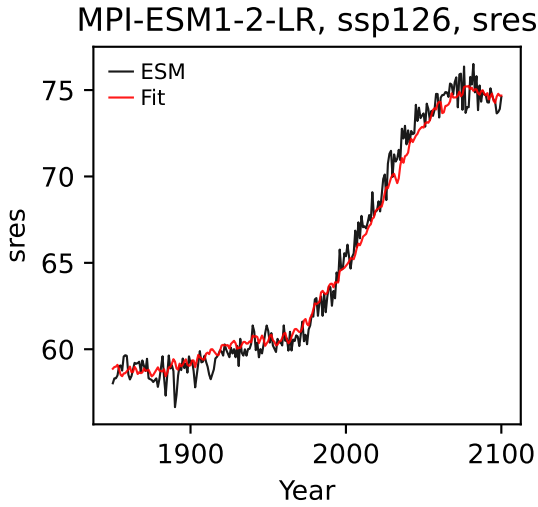
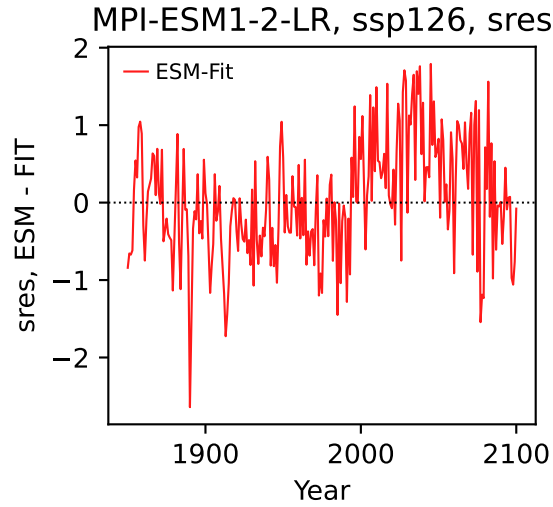
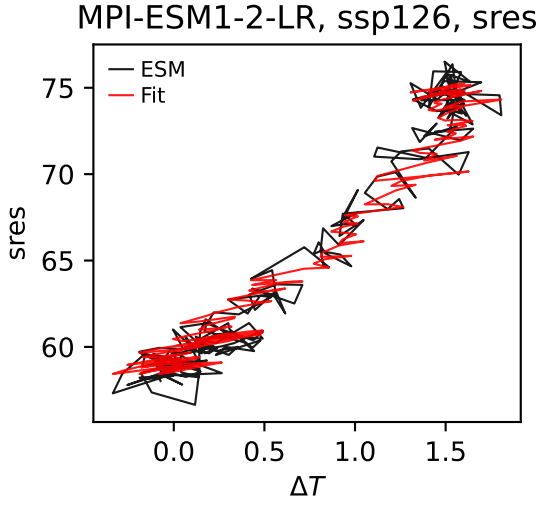
5.25
4.25
3.25
2.25

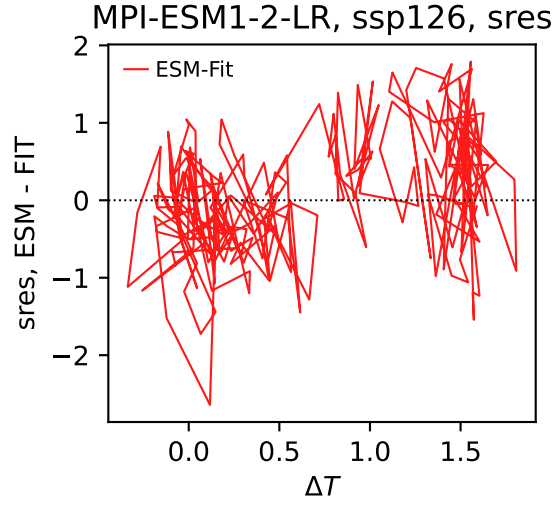

MPI-ESM1-2-LR, ssp126, vres, ln(MSE/SIGMA)
804, -0.7695,2000.0000, -0.2584, -0.0058, 0.0856, 0.9808, 0.9322, 0
0.04
0.02
0.00
−0.02
−0.04
vres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
vres_c_tan
7
6
5
4
3
2
1
0

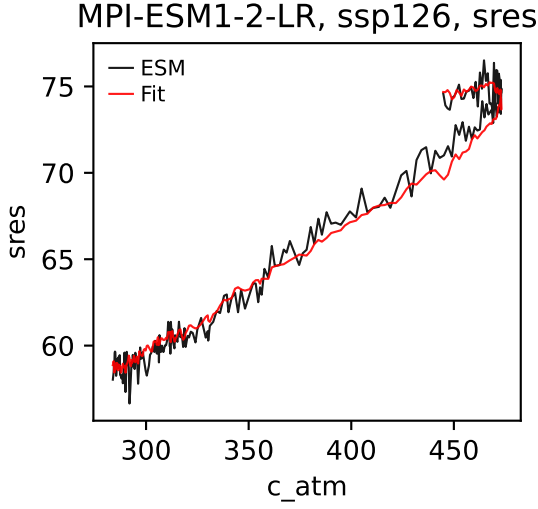

MPI-ESM1-2-LR, ssp126, vres, ln(MSE/SIGMA)
804, -0.7695,2000.0000, -0.2584, -0.0058, 0.0856, 0.9808, 0.9322, 0
MPI-ESM1-2-LR
vres_slow
vres_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
2.64
2.32
2.00
1.68
1.36
1.04
0.72
0.40
0.08

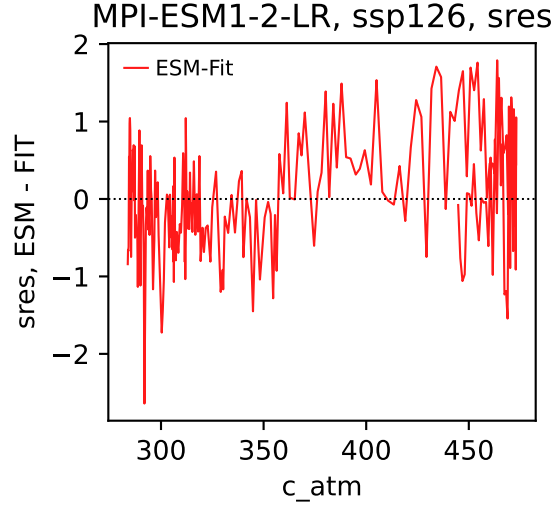

MPI-ESM1-2-LR, ssp126, sres
ESM
Fit
sres
Year

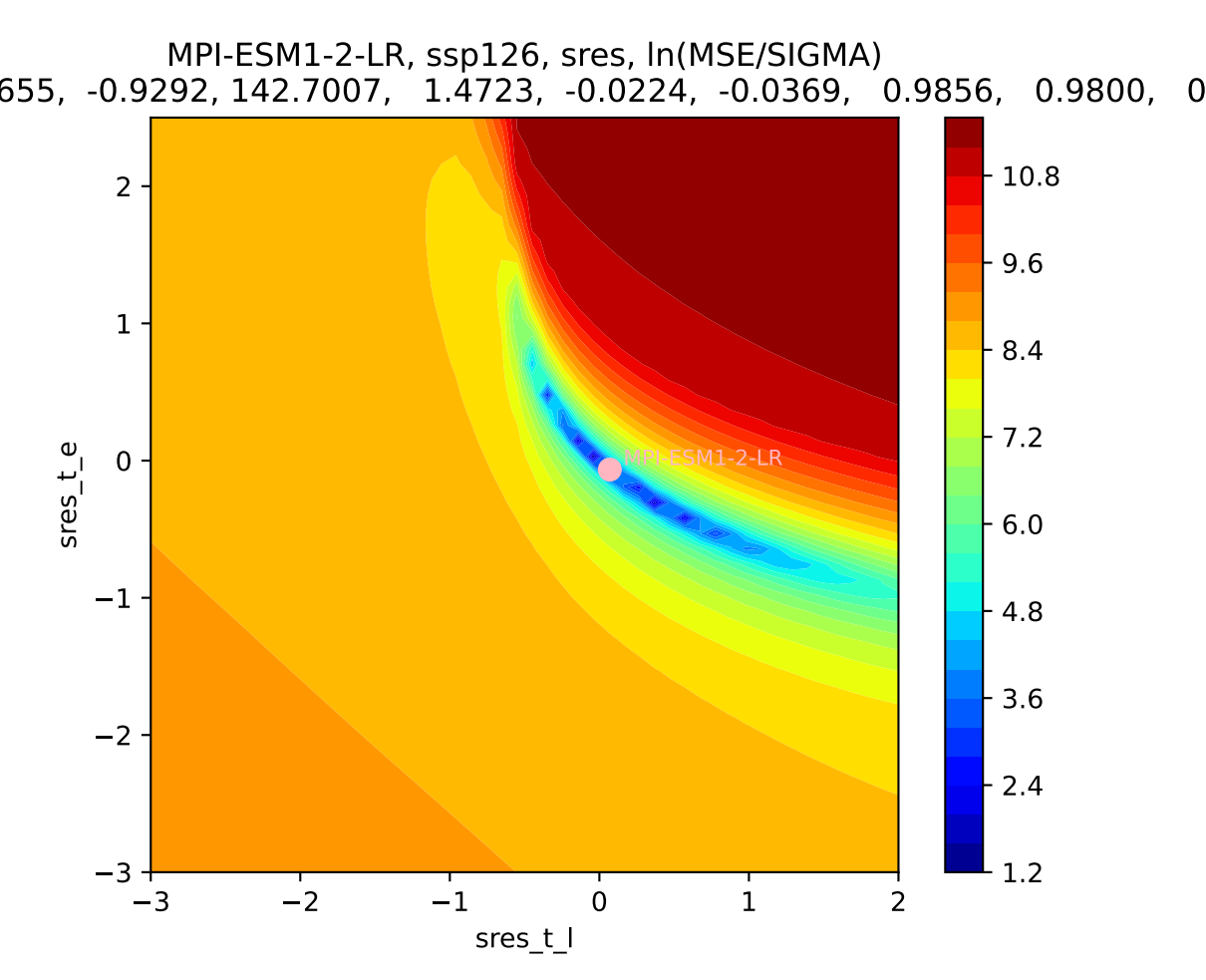

MPI-ESM1-2-LR, ssp126, sres
ESM-Fit
sres, ESM - FIT
Year

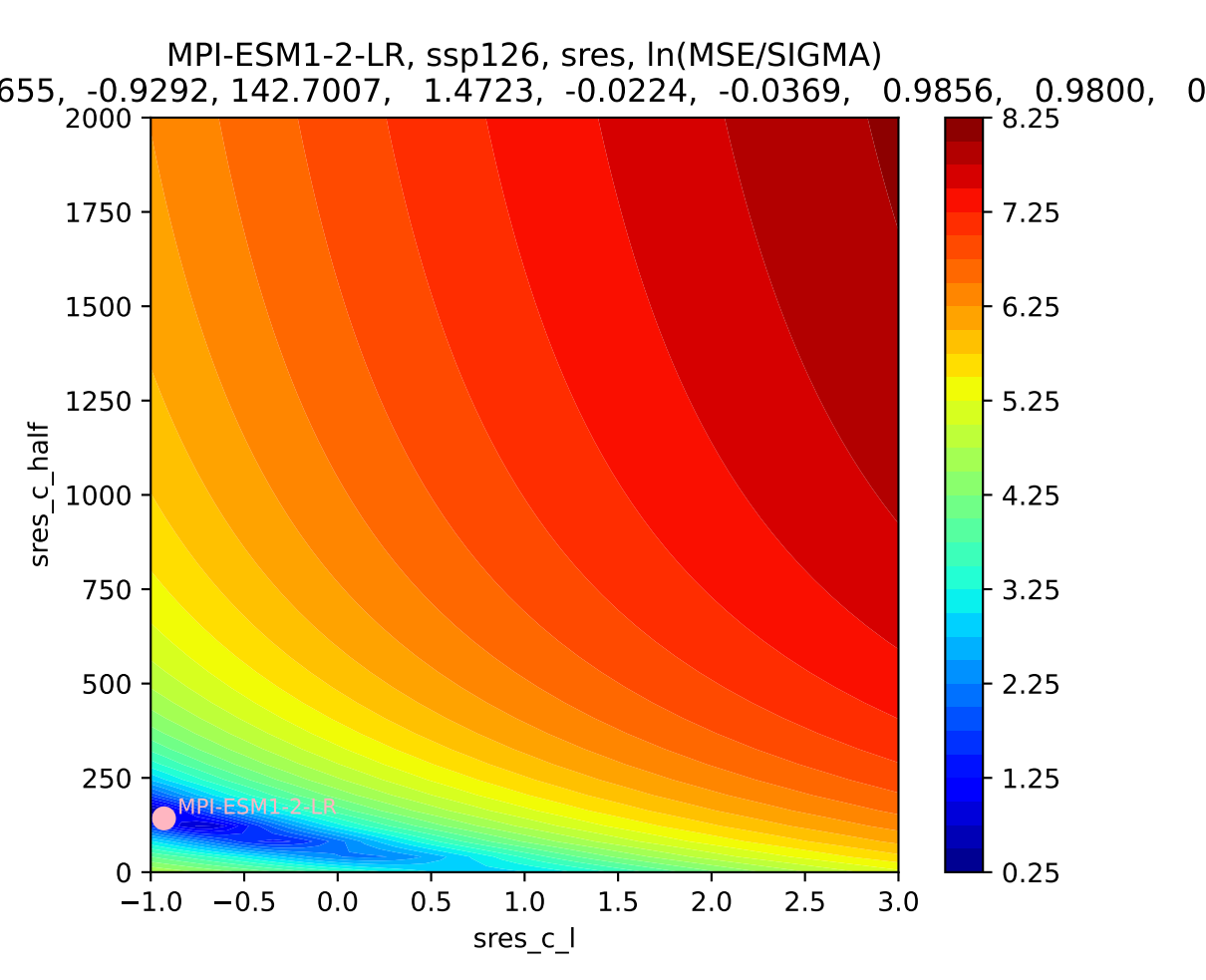

MPI-ESM1-2-LR, ssp126, sres
ESM
Fit
sres
ΔT

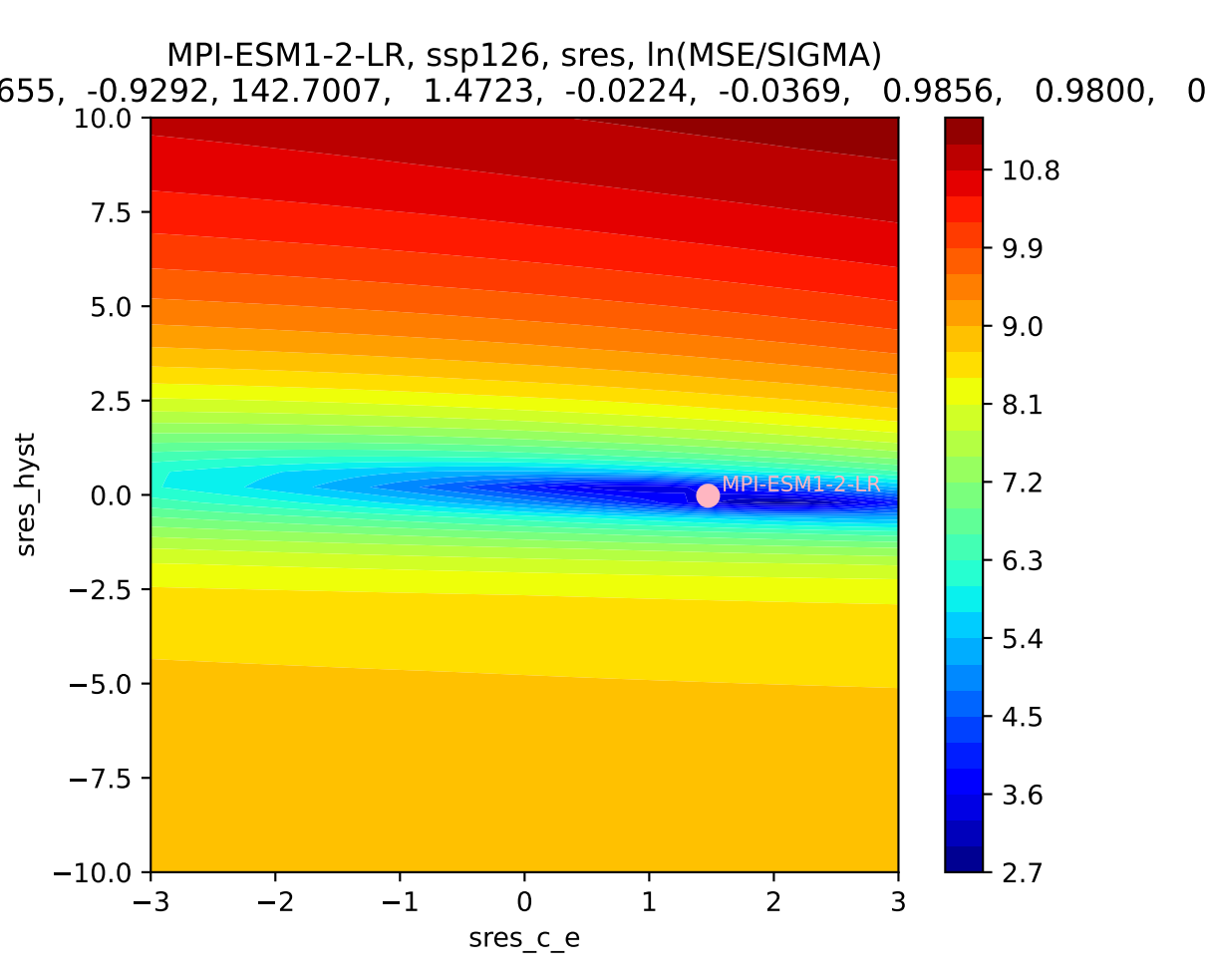

MPI-ESM1-2-LR, ssp126, sres
ESM-Fit
sres, ESM - FIT
ΔT

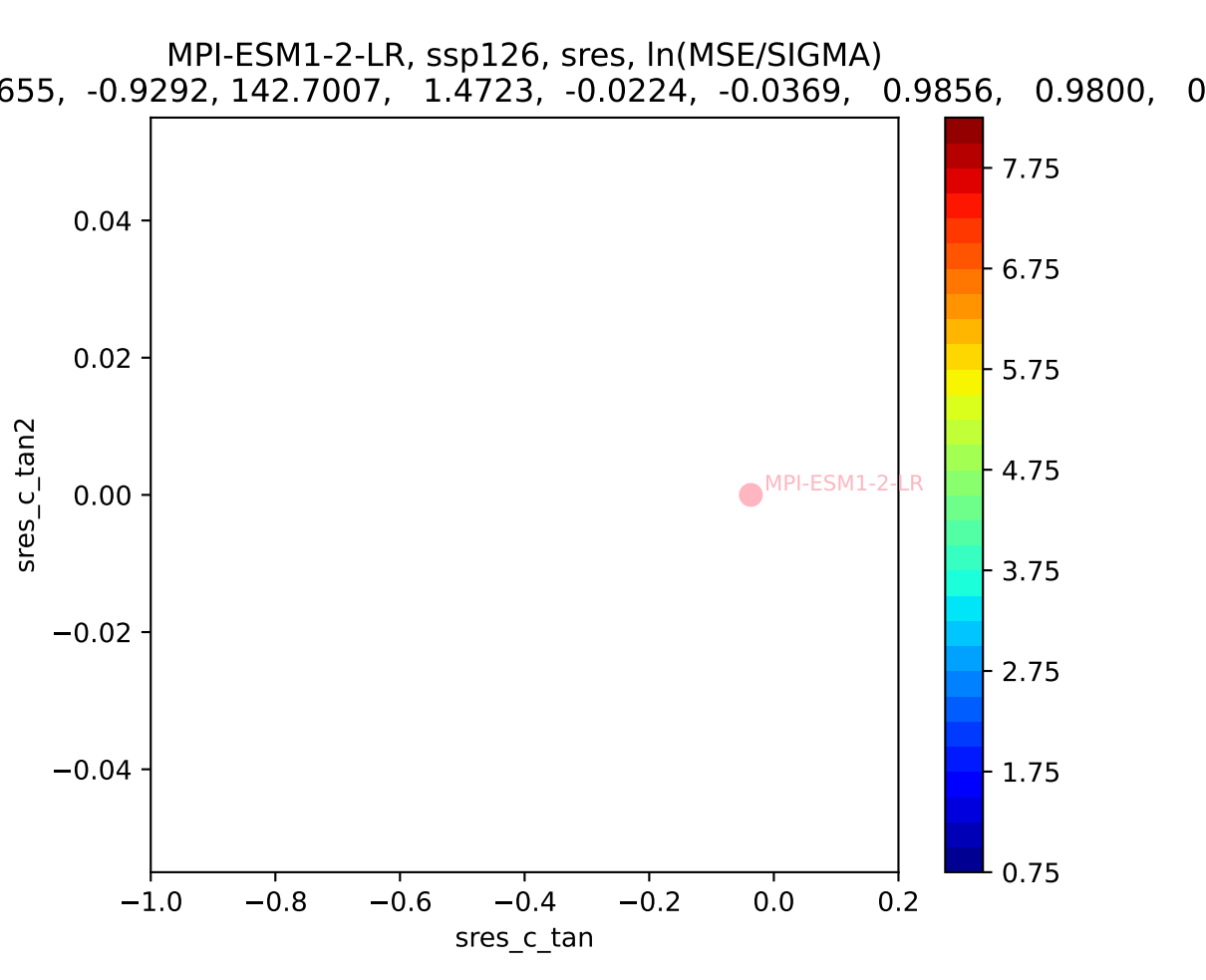

MPI-ESM1-2-LR, ssp126, sres
ESM
Fit
sres
c_atm

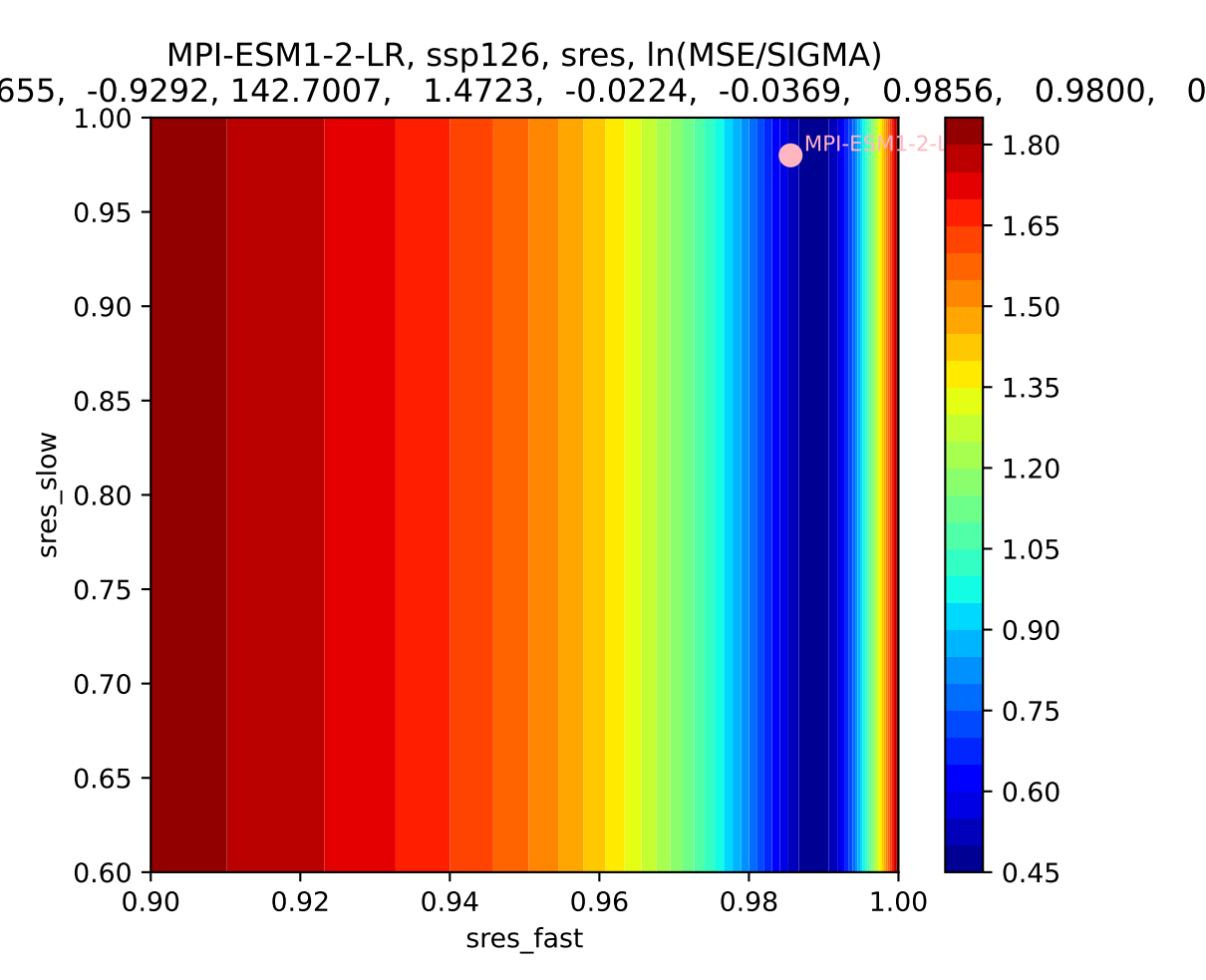

MPI-ESM1-2-LR, ssp126, sres
ESM-Fit
sres, ESM - FIT
c_atm

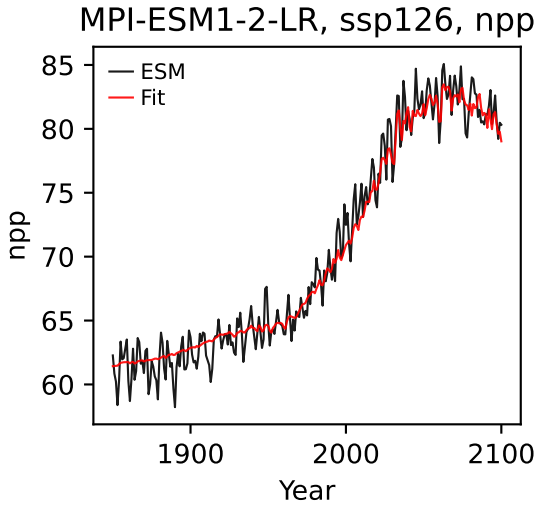

MPI-ESM1-2-LR, ssp126, sres, ln(MSE/SIGMA)
655, -0.9292, 142.7007, 1.4723, -0.0224, -0.0369, 0.9856, 0.9800, 0
MPI-ESM1-2-LR
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

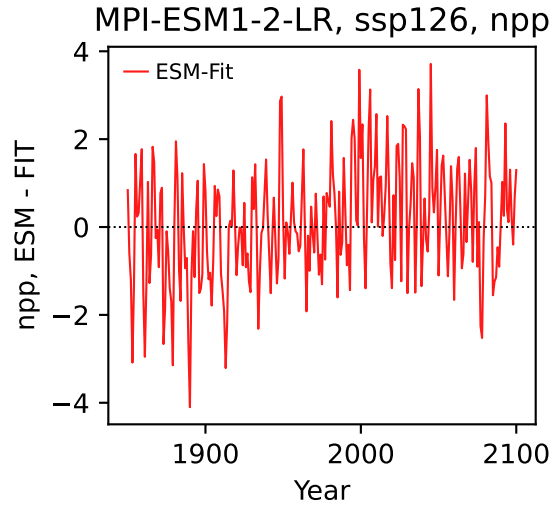

MPI-ESM1-2-LR, ssp126, sres, ln(MSE/SIGMA)
655, -0.9292, 142.7007, 1.4723, -0.0224, -0.0369, 0.9856, 0.9800, 0
sres_c_half
sres_c_l
MPI-ESM1-2-LR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.25
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

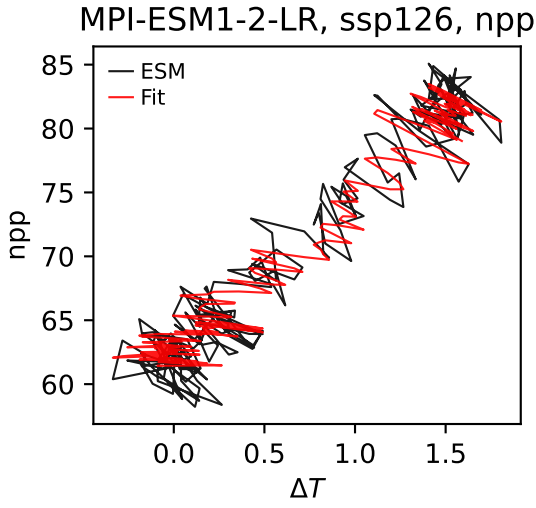

MPI-ESM1-2-LR, ssp126, sres, ln(MSE/SIGMA)
655, -0.9292, 142.7007, 1.4723, -0.0224, -0.0369, 0.9856, 0.9800, 0
MPI-ESM1-2-LR
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7

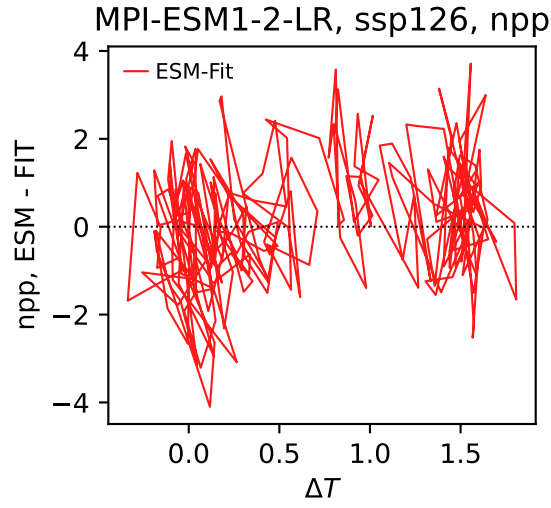

MPI-ESM1-2-LR, ssp126, sres, ln(MSE/SIGMA)
655, -0.9292, 142.7007, 1.4723, -0.0224, -0.0369, 0.9856, 0.9800, 0
MPI-ESM1-2-LR
0.04
0.02
0.00
−0.02
−0.04
sres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
sres_c_tan
7.75
6.75
5.75
4.75
3.75
2.75
1.75
0.75

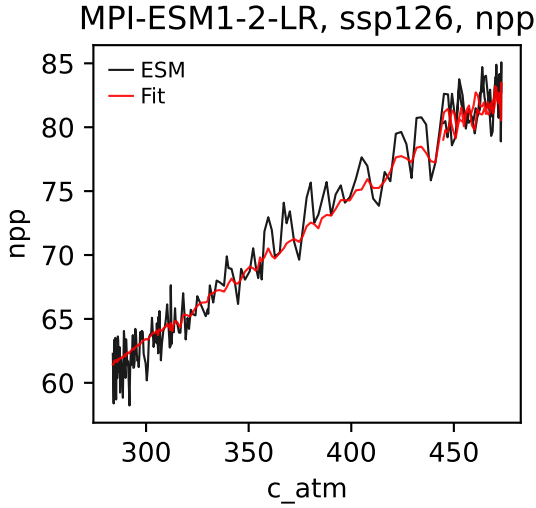

MPI-ESM1-2-LR, ssp126, sres, ln(MSE/SIGMA)
655, -0.9292, 142.7007, 1.4723, -0.0224, -0.0369, 0.9856, 0.9800, 0
MPI-ESM1-2-L
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
0.90
0.92
0.94
0.96
0.98
1.00
sres_fast
1.80
1.65
1.50
1.35
1.20
1.05
0.90
0.75
0.60
0.45

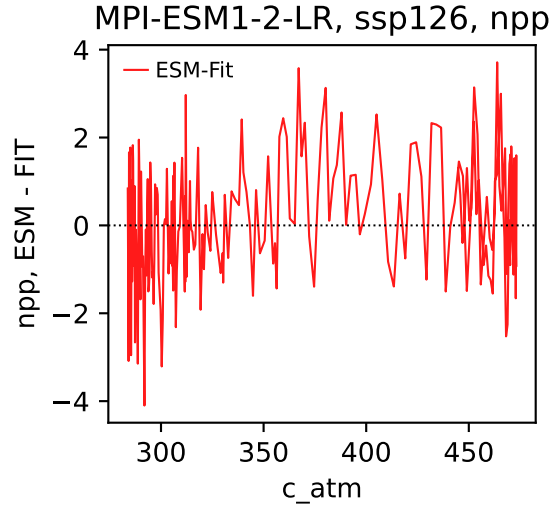

MPI-ESM1-2-LR, ssp126, npp
ESM
Fit
npp
Year

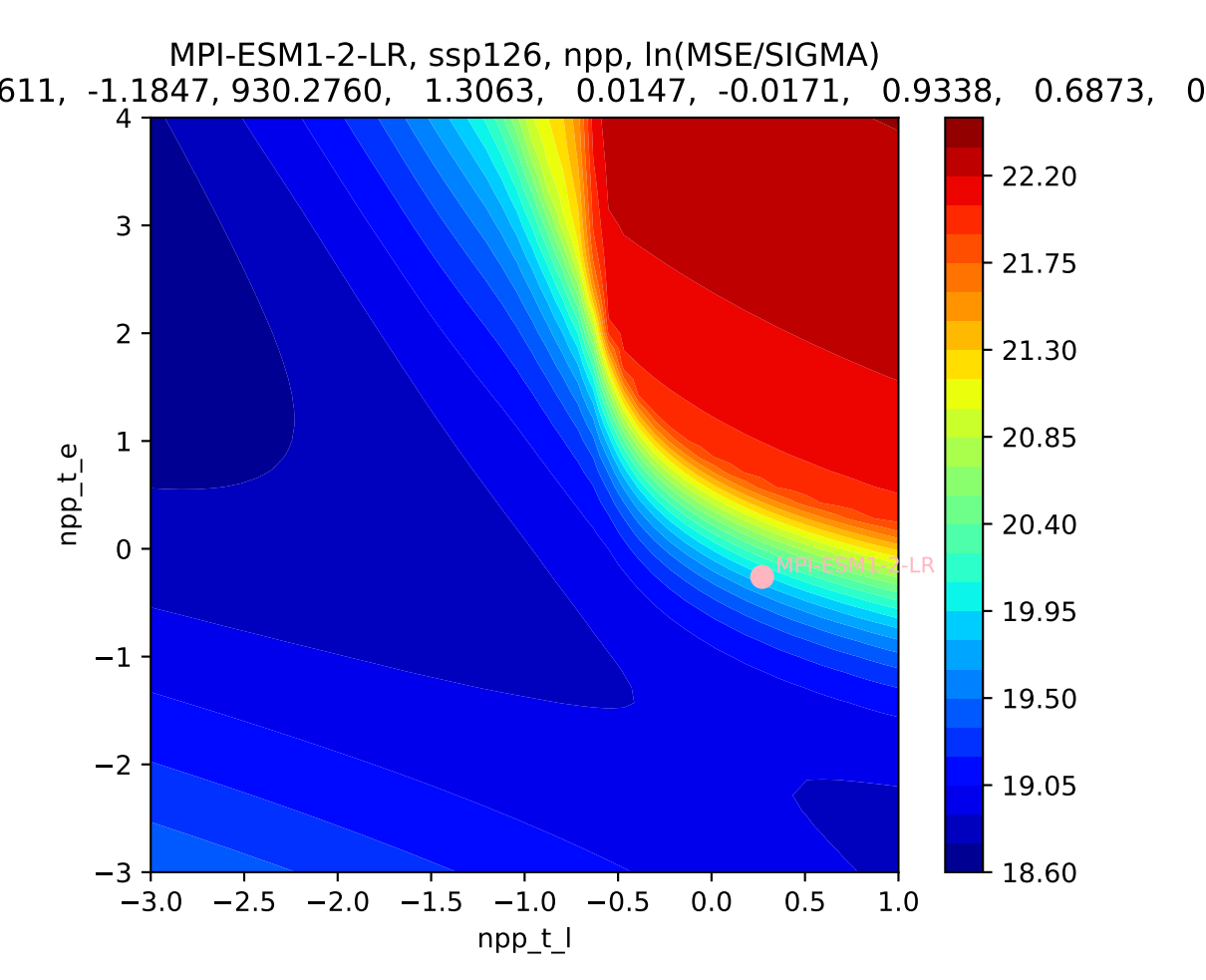

MPI-ESM1-2-LR, ssp126, npp
ESM-Fit
npp, ESM - FIT
Year

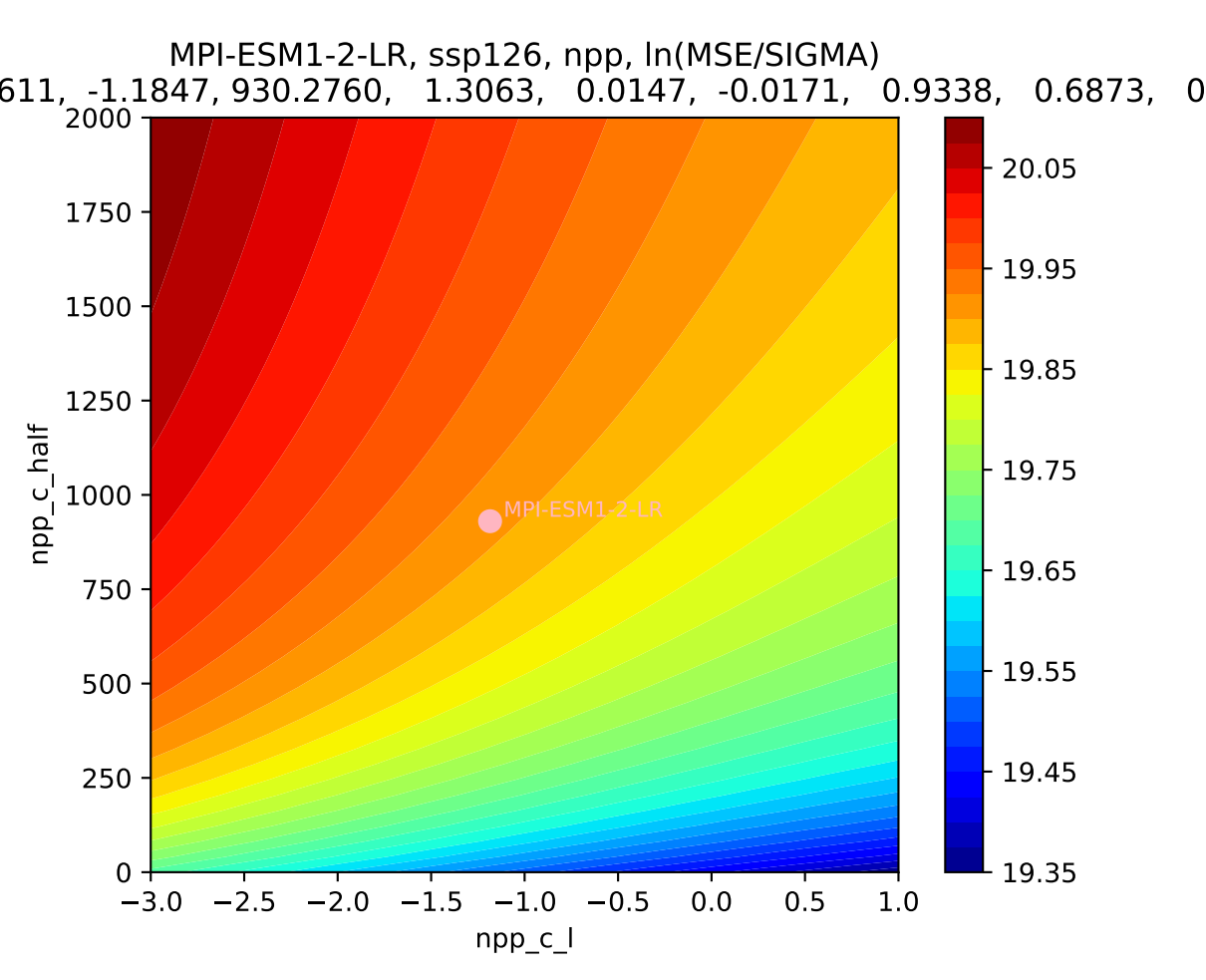

MPI-ESM1-2-LR, ssp126, npp
ESM
Fit
npp
ΔT

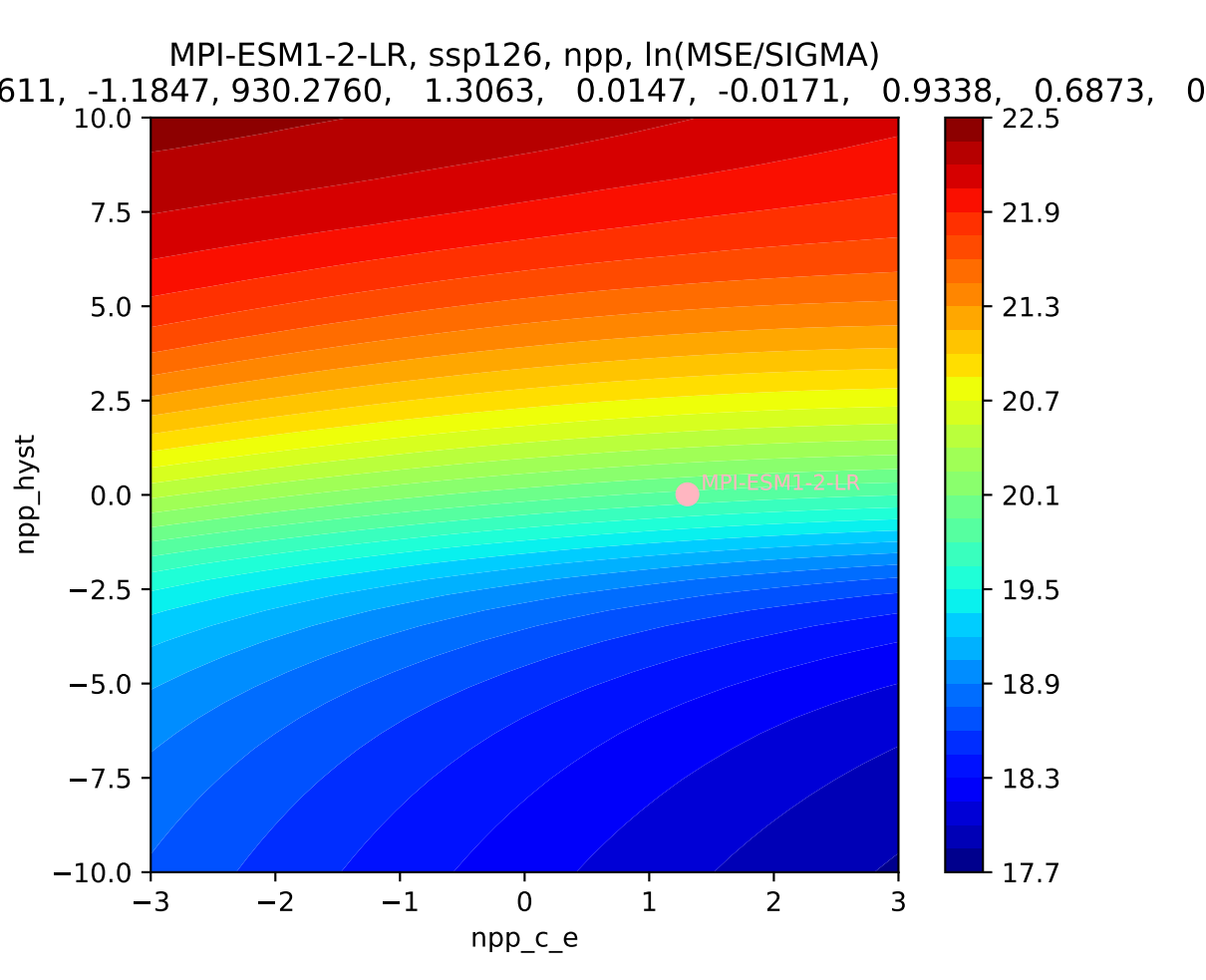

MPI-ESM1-2-LR, ssp126, npp
ESM-Fit
npp, ESM - FIT
ΔT

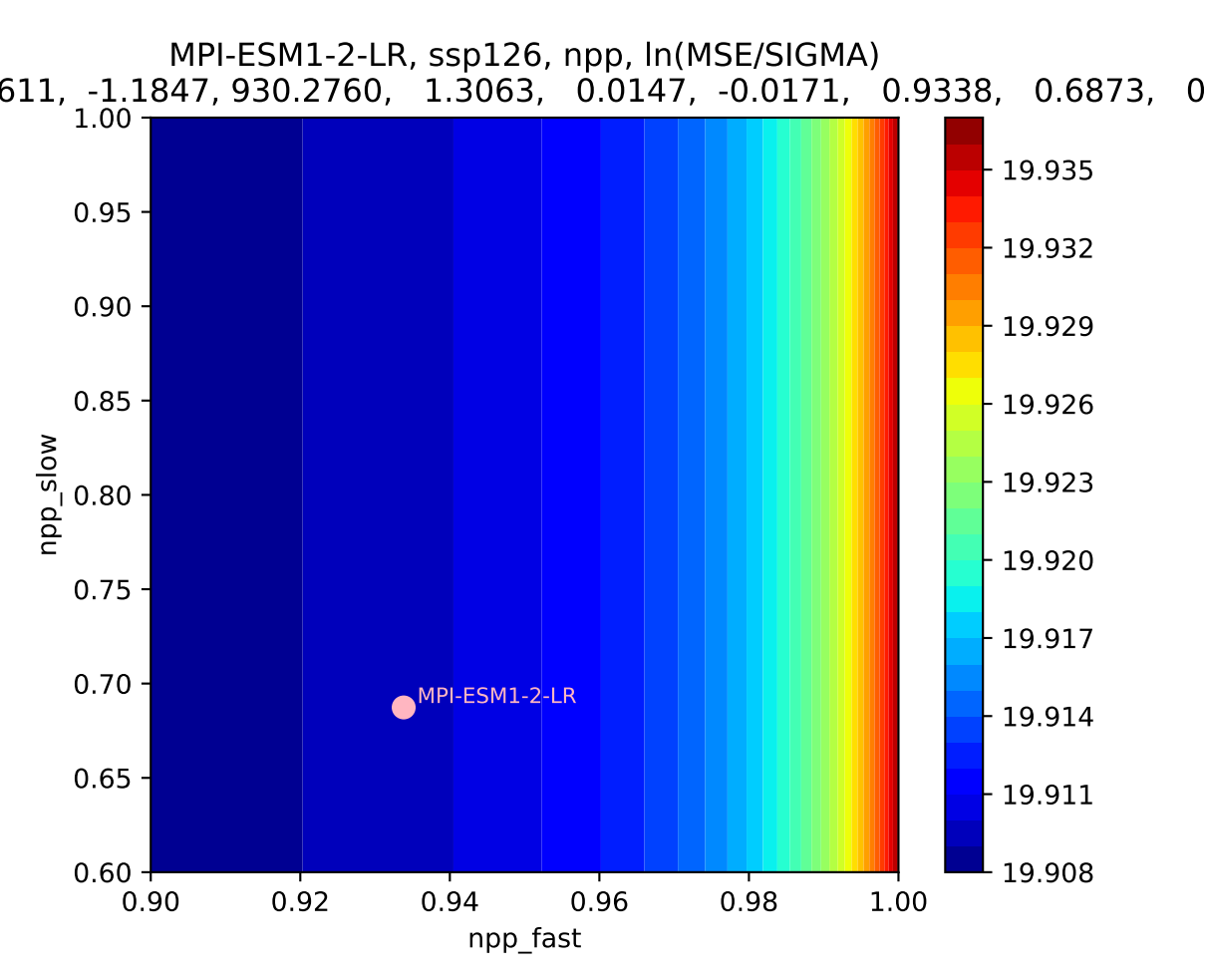

MPI-ESM1-2-LR, ssp126, npp
ESM
Fit
npp
c_atm

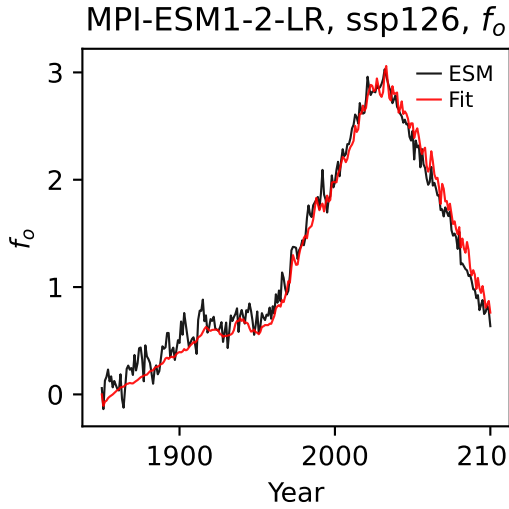

MPI-ESM1-2-LR, ssp126, npp
ESM-Fit
npp, ESM - FIT
c_atm

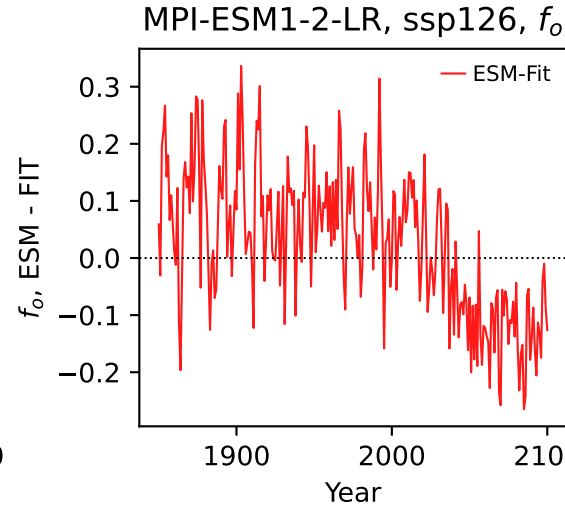

MPI-ESM1-2-LR, ssp126, npp, ln(MSE/SIGMA)
611, -1.1847, 930.2760, 1.3063, 0.0147, -0.0171, 0.9338, 0.6873, 0
MPI-ESM1-2-LR
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05
18.60

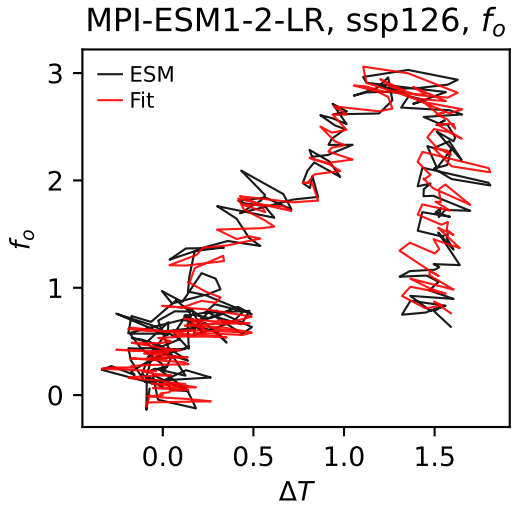

MPI-ESM1-2-LR, ssp126, npp, ln(MSE/SIGMA)
611, -1.1847, 930.2760, 1.3063, 0.0147, -0.0171, 0.9338, 0.6873, 0
MPI-ESM1-2-LR
npp_c_half
npp_c_l
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
20.05
19.95
19.85
19.75
19.65
19.55
19.45
19.35

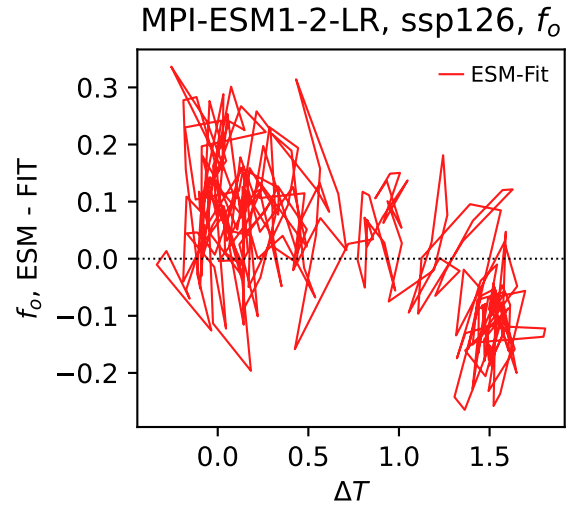

MPI-ESM1-2-LR, ssp126, npp, ln(MSE/SIGMA)
611, -1.1847, 930.2760, 1.3063, 0.0147, -0.0171, 0.9338, 0.6873, 0
MPI-ESM1-2-LR
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.5
21.9
21.3
20.7
20.1
19.5
18.9
18.3
17.7

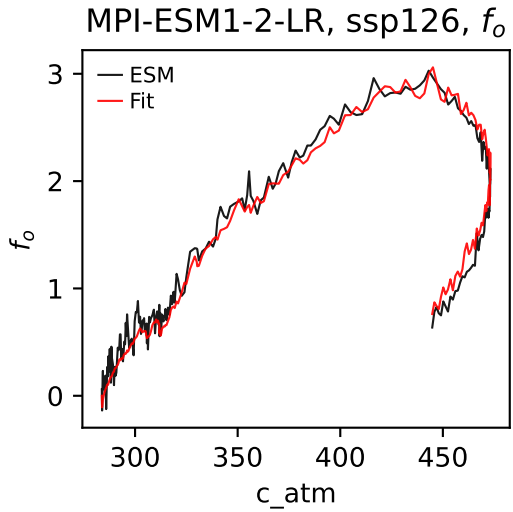

MPI-ESM1-2-LR, ssp126, npp, ln(MSE/SIGMA)
611, -1.1847, 930.2760, 1.3063, 0.0147, -0.0171, 0.9338, 0.6873, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
MPI-ESM1-2-LR
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
19.935
19.932
19.929
19.926
19.923
19.920
19.917
19.914
19.911
19.908

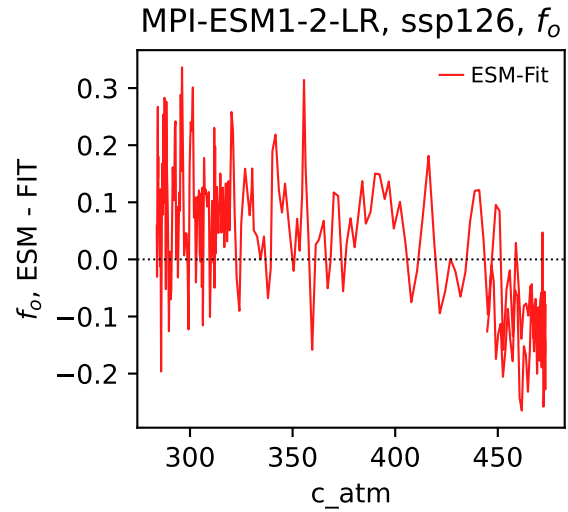

MPI-ESM1-2-LR, ssp126, f_o
ESM
Fit
f_o
Year

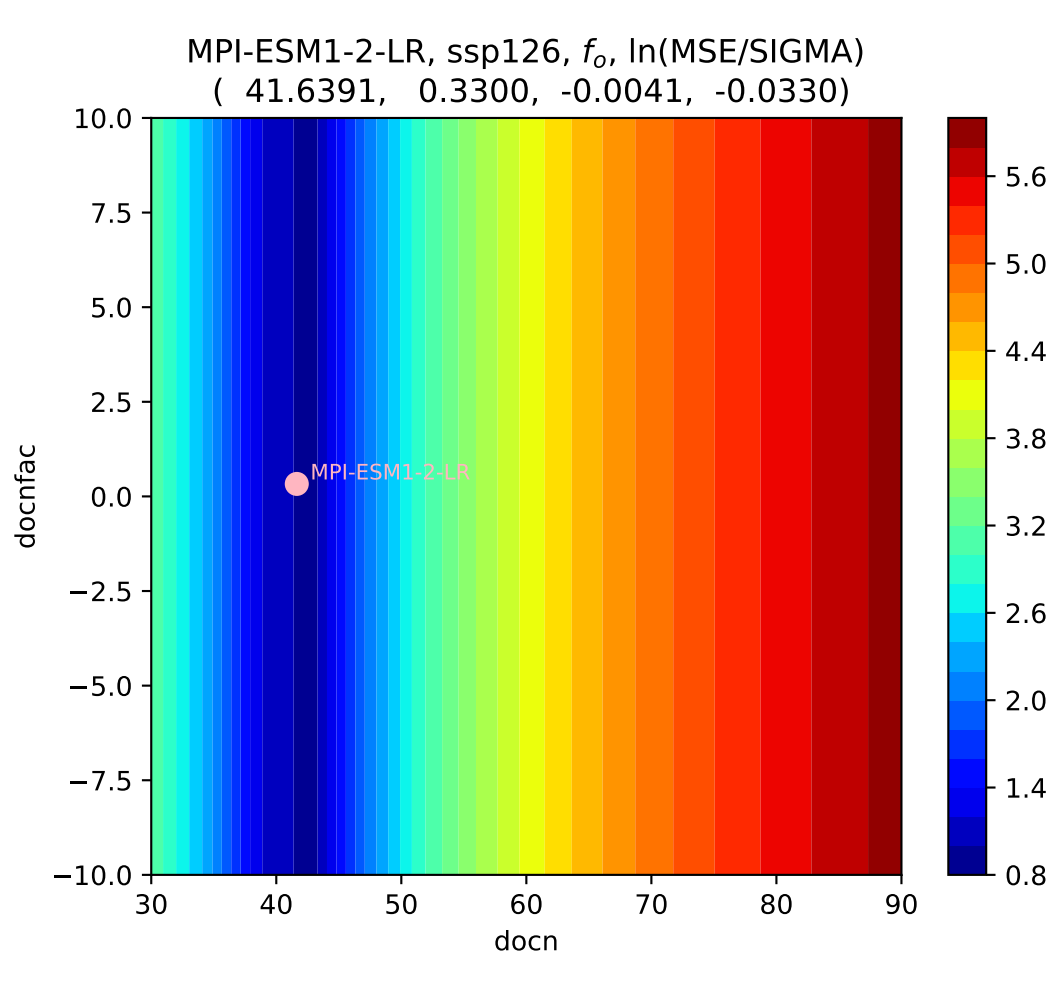

MPI-ESM1-2-LR, ssp126, f_o
ESM-Fit
f_o, ESM - FIT
Year

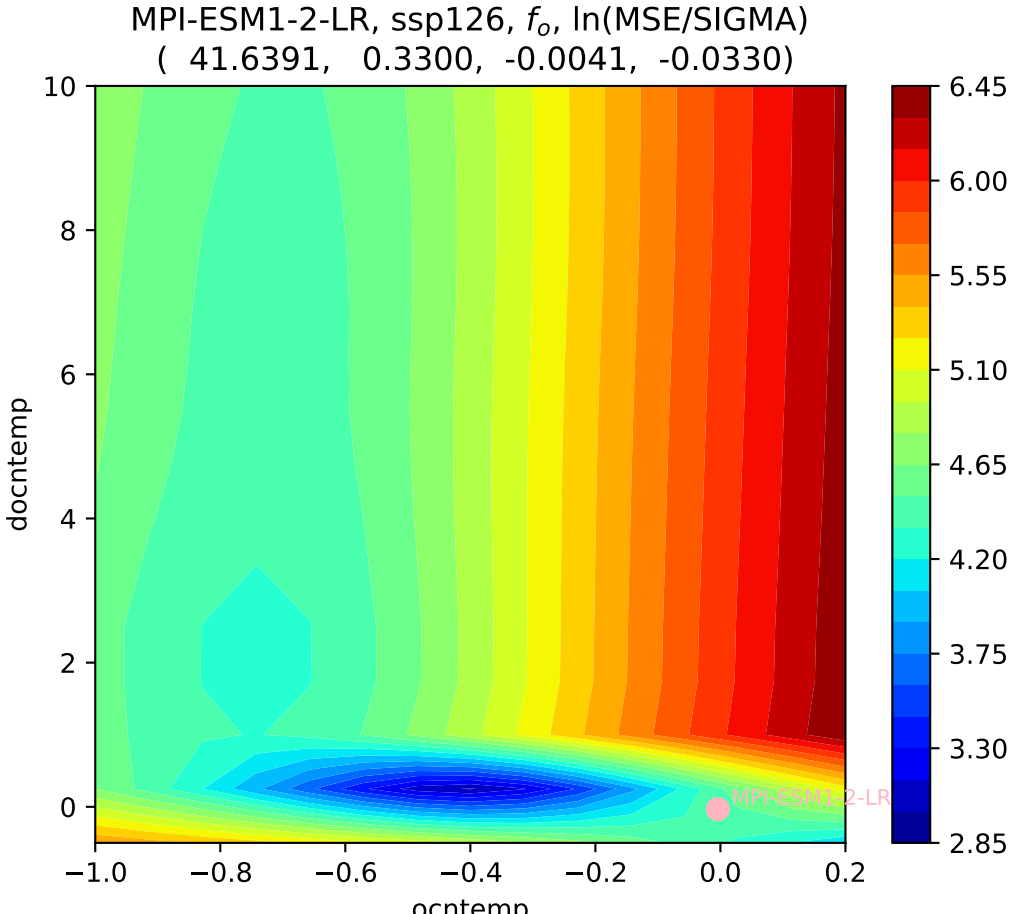

MPI-ESM1-2-LR, ssp126, f_o
ESM
Fit
f_o
ΔT


MPI-ESM1-2-LR, ssp126, f_o
ESM-Fit
f_o, ESM - FIT
ΔT


MPI-ESM1-2-LR, ssp126, f_o
ESM
Fit
f_o
c_atm


MPI-ESM1-2-LR, ssp126, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


MPI-ESM1-2-LR, ssp126, f_o, ln(MSE/SIGMA)
(41.6391, 0.3300, -0.0041, -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
5.6
5.0
4.4
3.8
3.2
2.6
2.0
1.4
0.8


MPI-ESM1-2-LR, ssp126, f_o, ln(MSE/SIGMA)
(41.6391, 0.3300, -0.0041, -0.0330)
docntemp
ocntemp
MPI-ESM1-2-LR
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
6.45
6.00
5.55
5.10
4.65
4.20
3.75
3.30
2.85