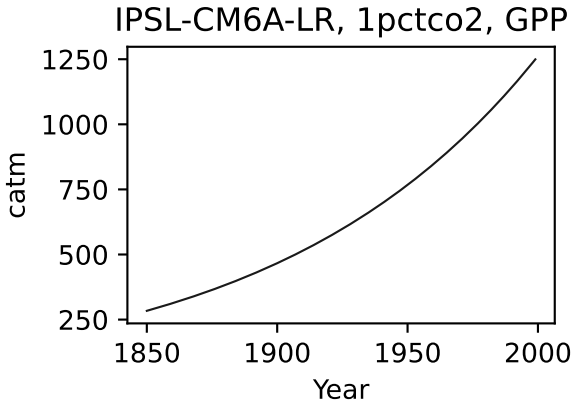
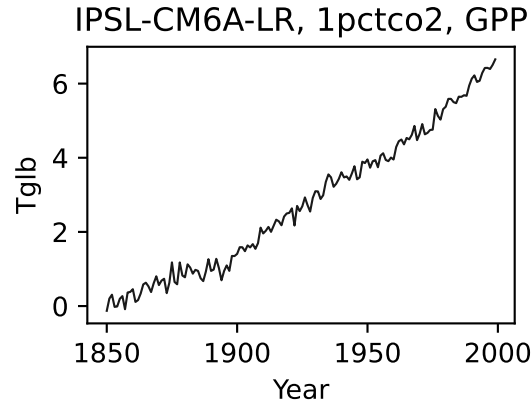
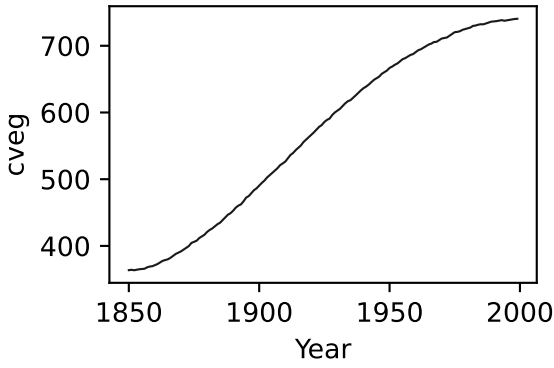
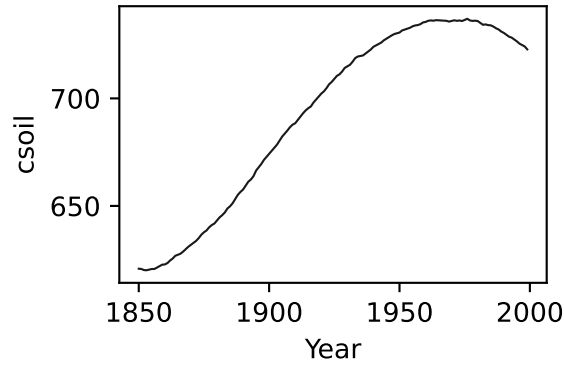
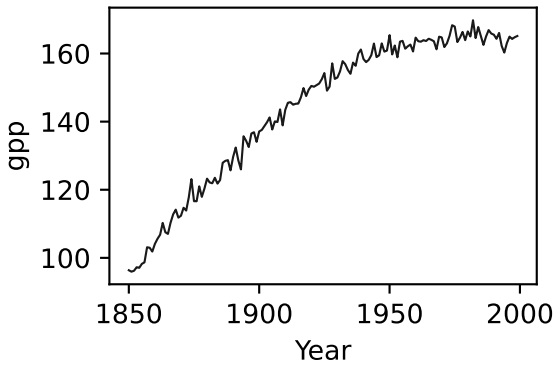
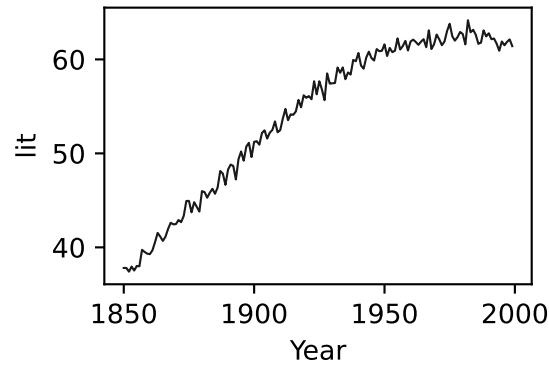

IPSL-CM6A-LR, 1pctco2, GPP
catm
1250
1000
750
500
250
1850
1900
1950
2000
Year

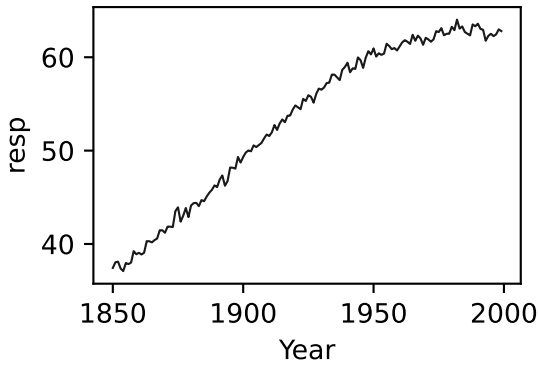

IPSL-CM6A-LR, 1pctco2, GPP
Tglb
6
4
2
0
1850
1900
1950
2000
Year

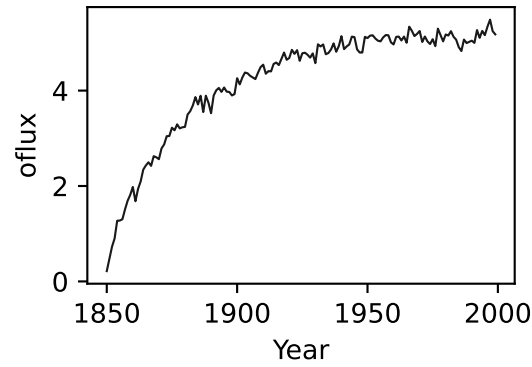

cveg
700
600
500
400
1850
1900
1950
2000
Year

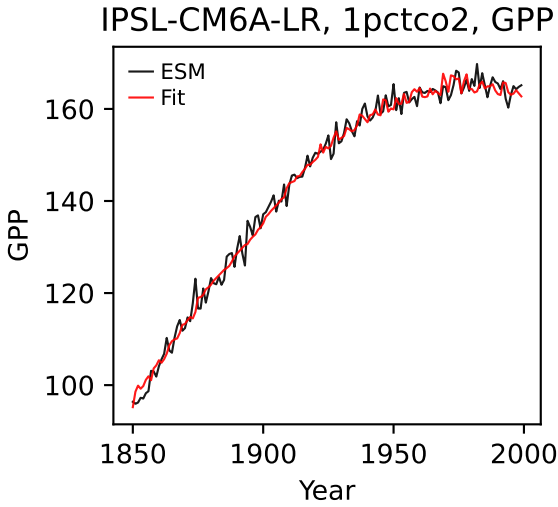

csoil
700
650
1850
1900
1950
2000
Year

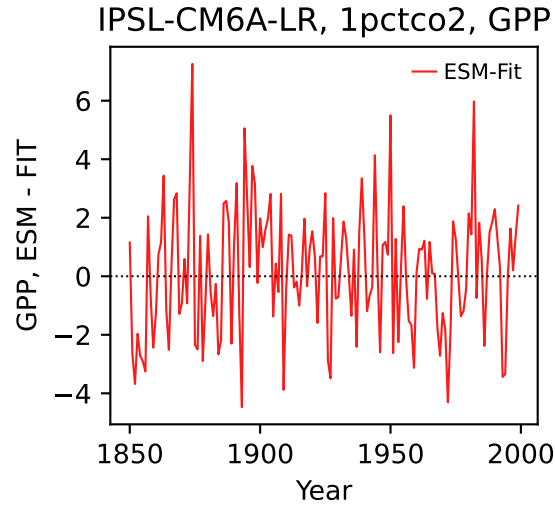

gpp
160
140
120
100
1850
1900
1950
2000
Year

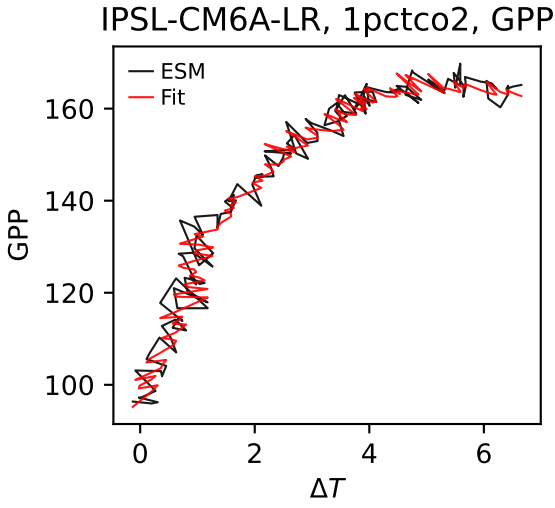

lit
60
50
40
1850
1900
1950
2000
Year

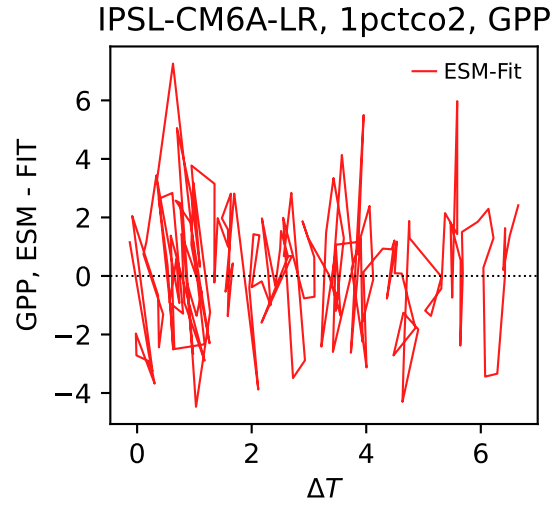

resp
60
50
40
1850
1900
1950
2000
Year

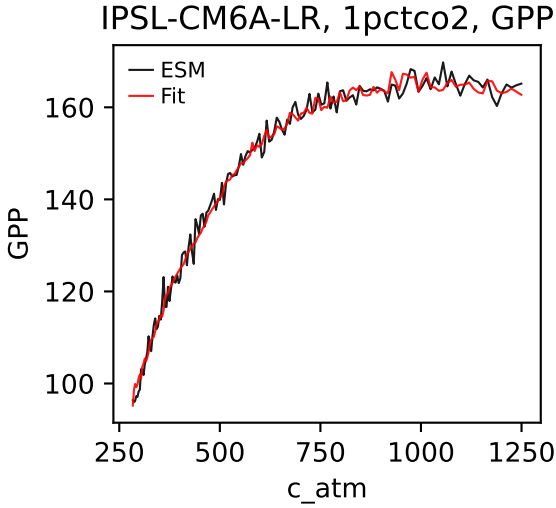

oflux
4
2
0
1850
1900
1950
2000
Year

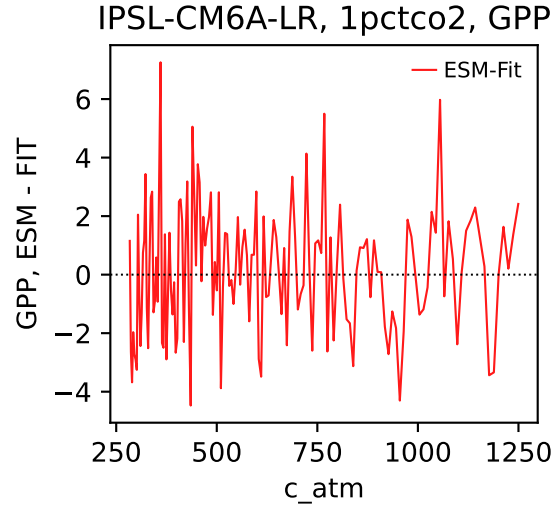

IPSL-CM6A-LR, 1pctco2, GPP
ESM
Fit
GPP
Year

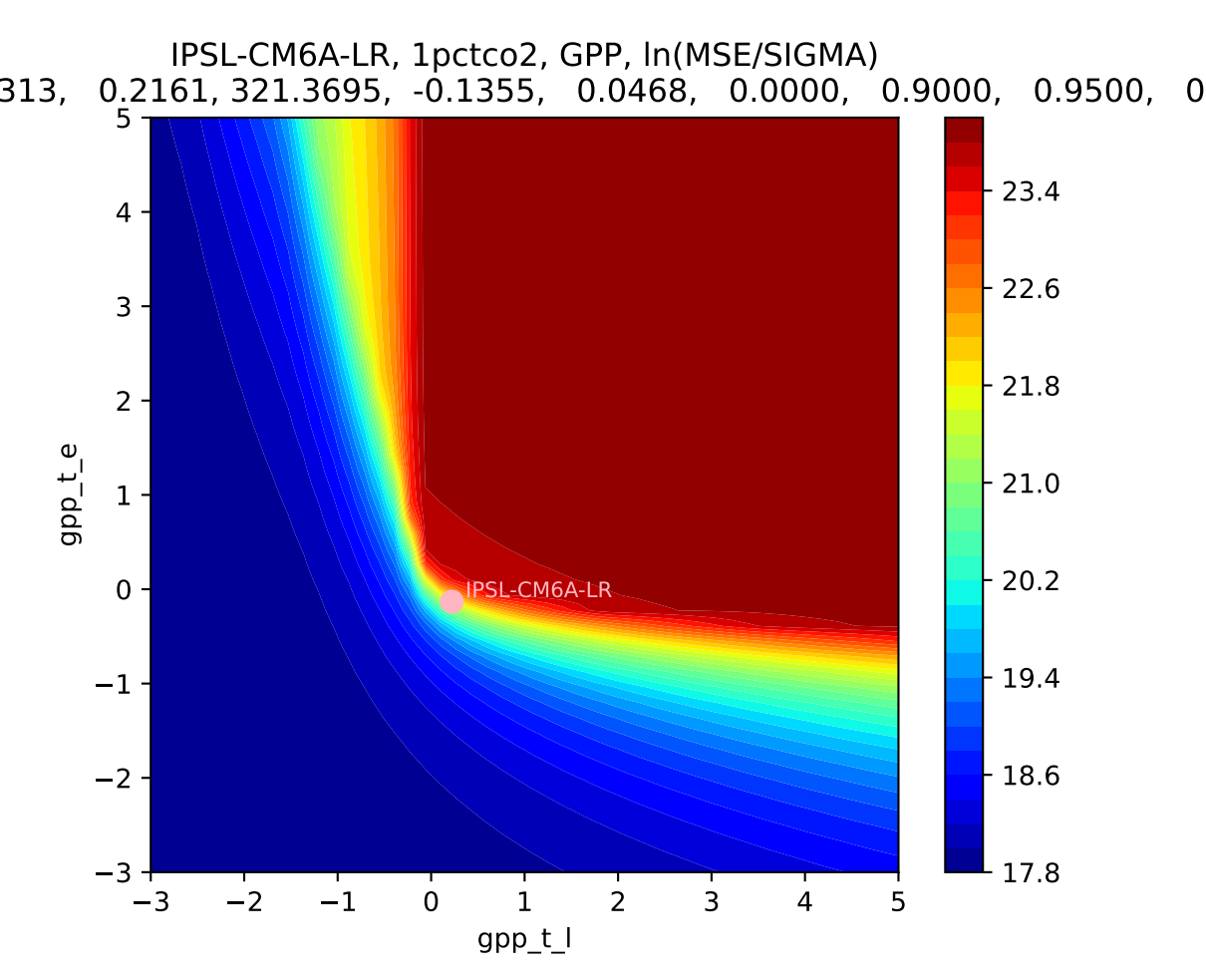

IPSL-CM6A-LR, 1pctco2, GPP
ESM-Fit
GPP, ESM - FIT
Year

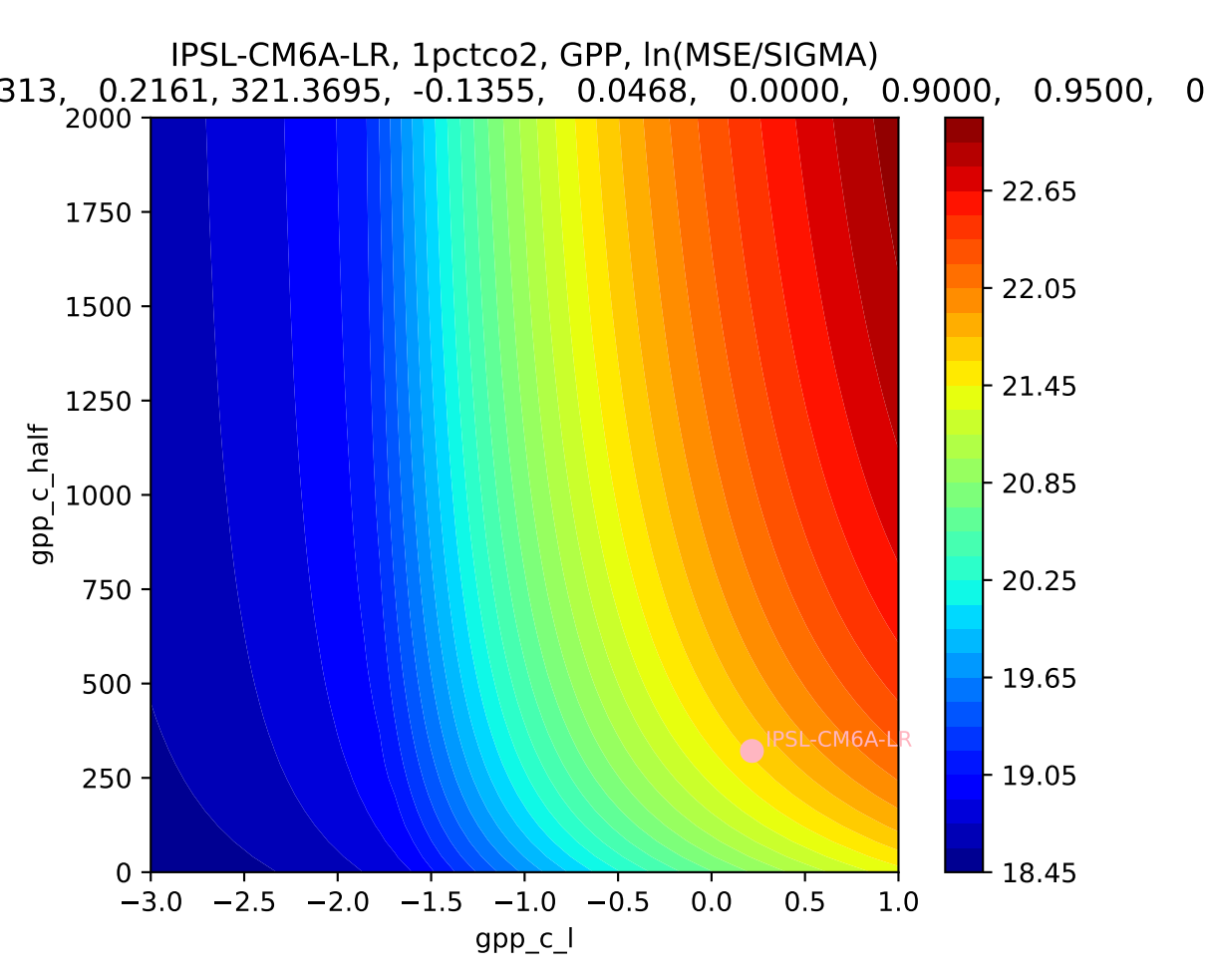

IPSL-CM6A-LR, 1pctco2, GPP
ESM
Fit
GPP
ΔT

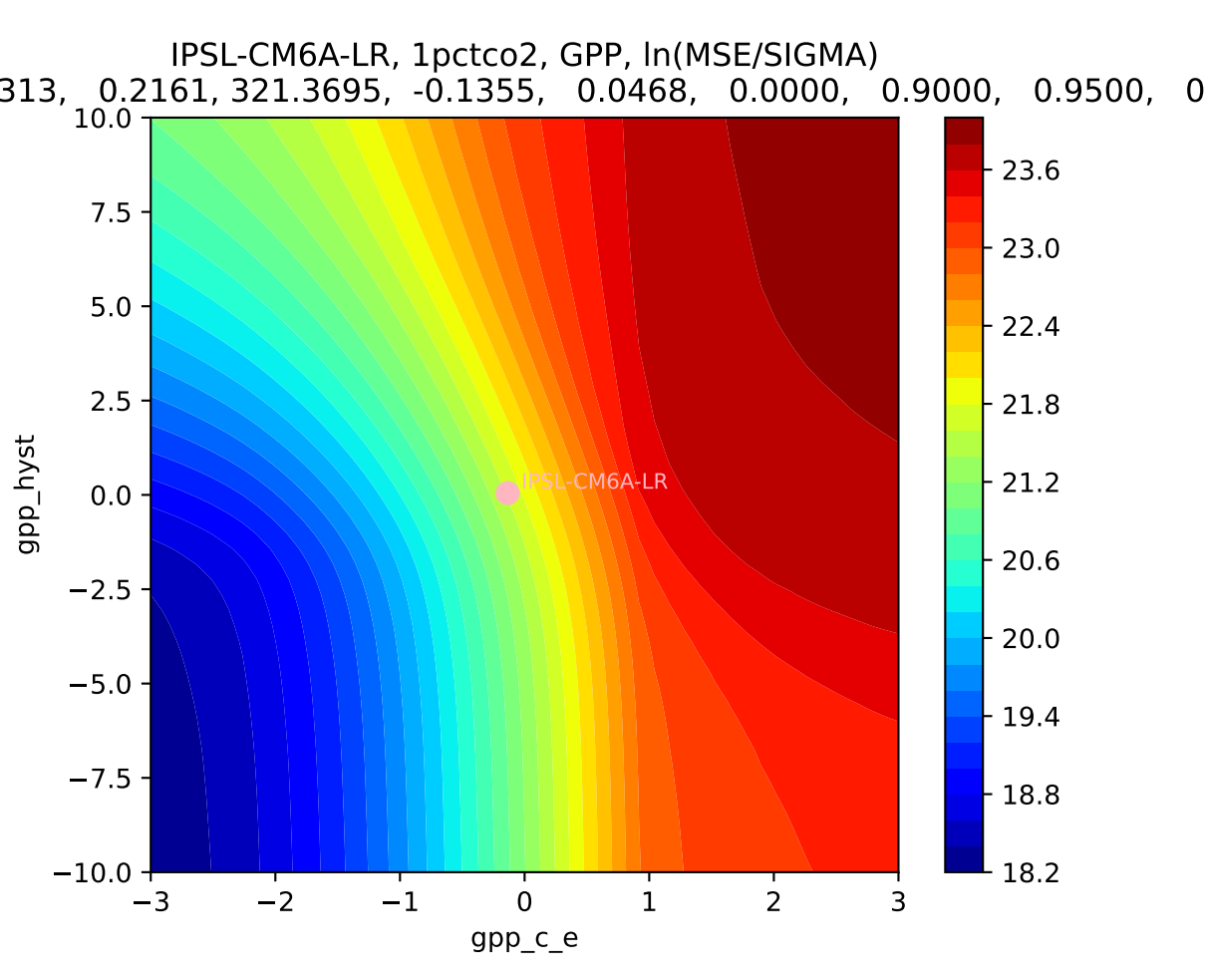

IPSL-CM6A-LR, 1pctco2, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

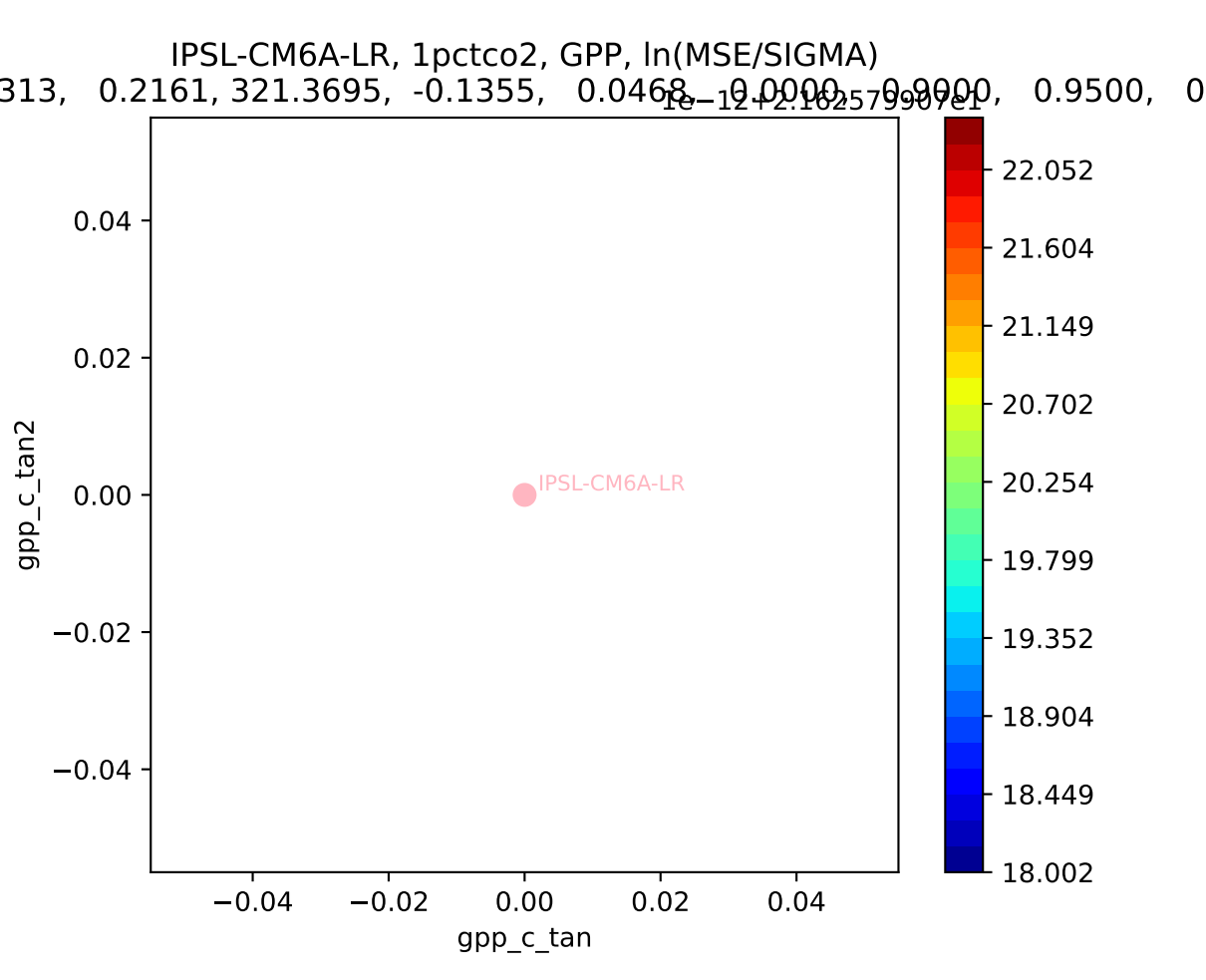

IPSL-CM6A-LR, 1pctco2, GPP
ESM
Fit
GPP
c_atm

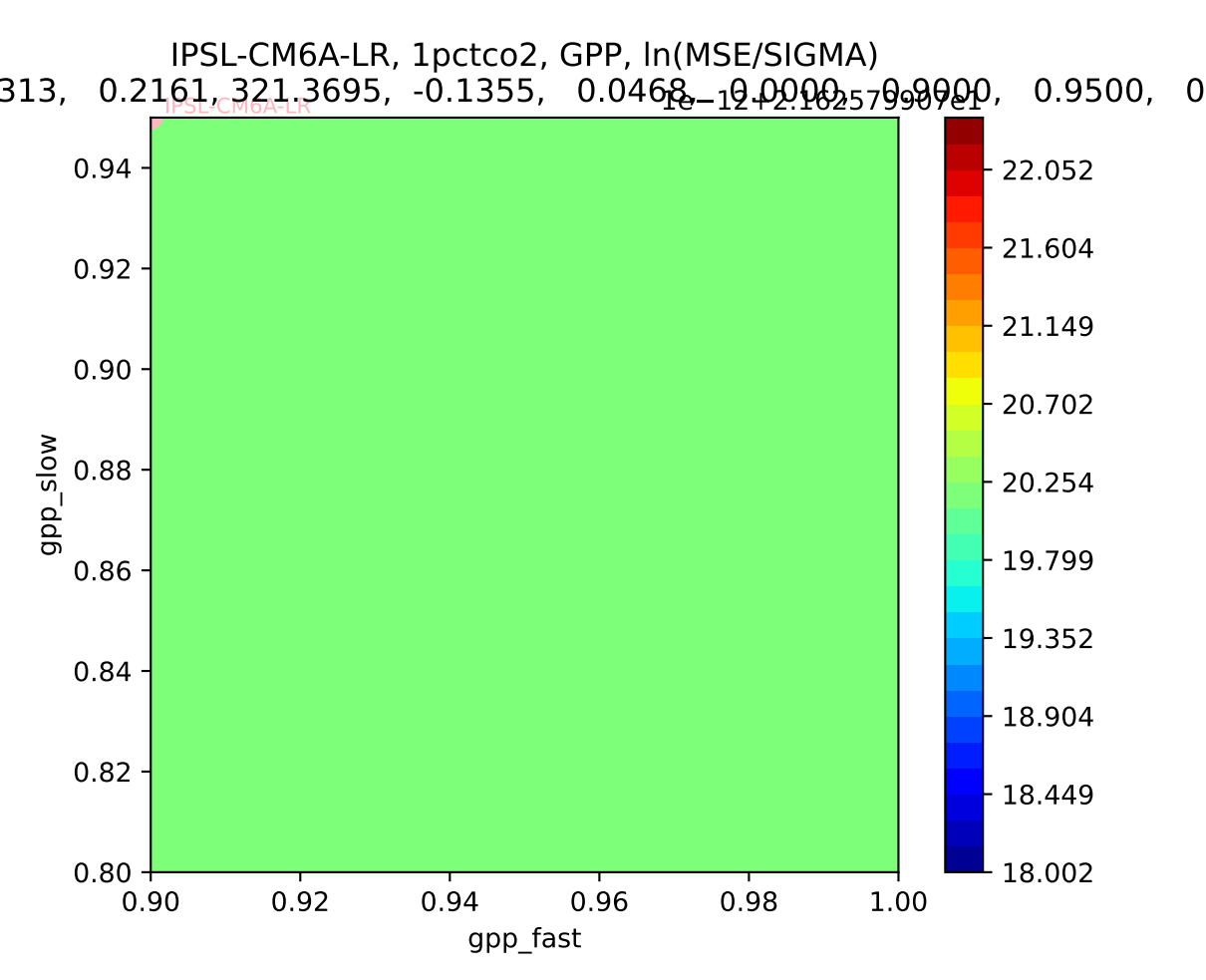

IPSL-CM6A-LR, 1pctco2, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

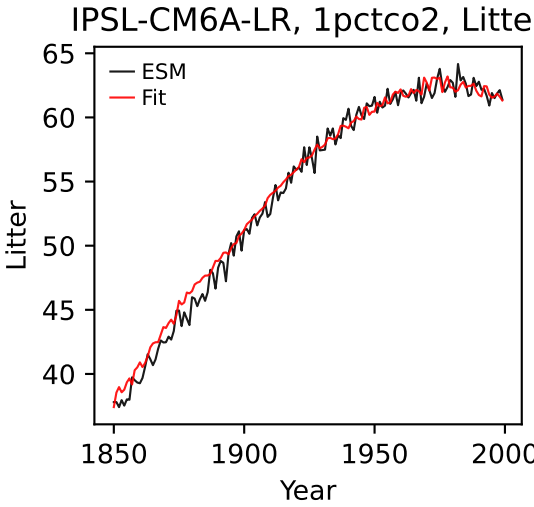

IPSL-CM6A-LR, 1pctco2, GPP, ln(MSE/SIGMA)
313, 0.2161, 321.3695, -0.1355, 0.0468, 0.0000, 0.9000, 0.9500, 0
IPSL-CM6A-LR
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
23.4
22.6
21.8
21.0
20.2
19.4
18.6
17.8

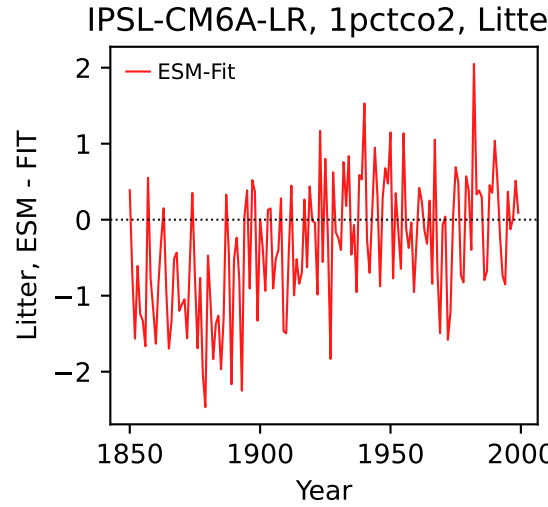

IPSL-CM6A-LR, 1pctco2, GPP, ln(MSE/SIGMA)
313, 0.2161, 321.3695, -0.1355, 0.0468, 0.0000, 0.9000, 0.9500, 0
gpp_c_half
gpp_c_l
IPSL-CM6A-LR
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.65
22.05
21.45
20.85
20.25
19.65
19.05
18.45

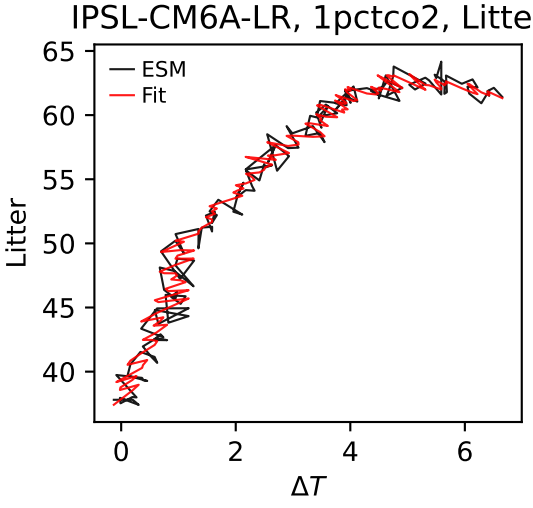

IPSL-CM6A-LR, 1pctco2, GPP, ln(MSE/SIGMA)
313, 0.2161, 321.3695, -0.1355, 0.0468, 0.0000, 0.9000, 0.9500, 0
IPSL-CM6A-LR
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
23.6
23.0
22.4
21.8
21.2
20.6
20.0
19.4
18.8
18.2

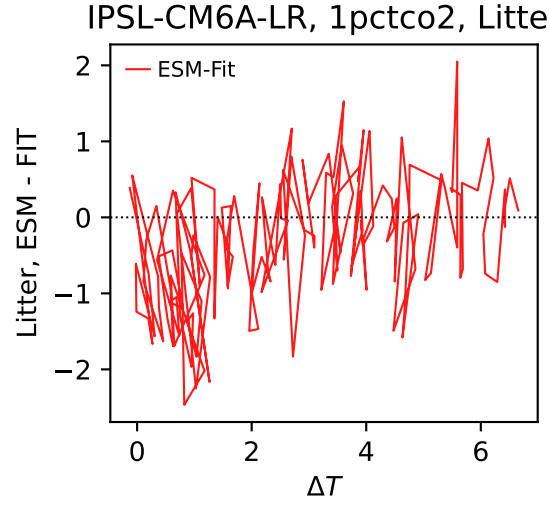

IPSL-CM6A-LR, 1pctco2, GPP, ln(MSE/SIGMA)
313, 0.2161, 321.3695, -0.1355, 0.0468, 0.0000, 0.9000, 0.9500, 0
1e−12+2.162579907e1
IPSL-CM6A-LR
gpp_c_tan2
gpp_c_tan
0.04
0.02
0.00
−0.02
−0.04
22.052
21.604
21.149
20.702
20.254
19.799
19.352
18.904
18.449
18.002

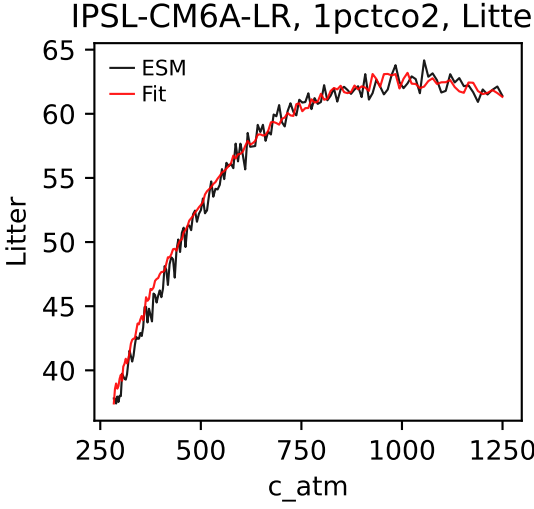

IPSL-CM6A-LR, 1pctco2, GPP, ln(MSE/SIGMA)
313, 0.2161, 321.3695, -0.1355, 0.0468, 0.0000, 0.9000, 0.9500, 0
IPSL-CM6A-LR
1e−12+2.162579907e1
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
gpp_slow
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast
22.052
21.604
21.149
20.702
20.254
19.799
19.352
18.904
18.449
18.002

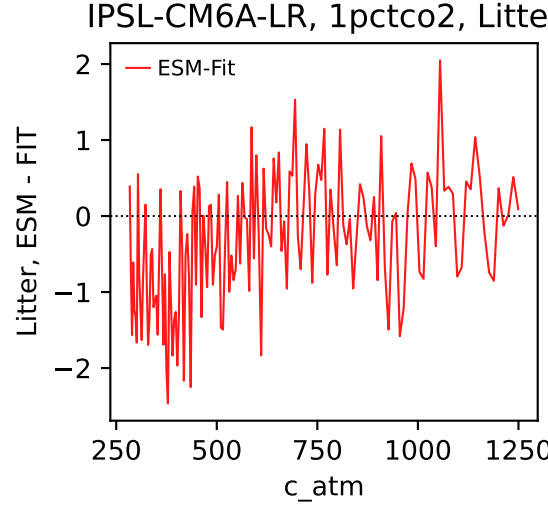

IPSL-CM6A-LR, 1pctco2, Litter
ESM
Fit
Litter
Year

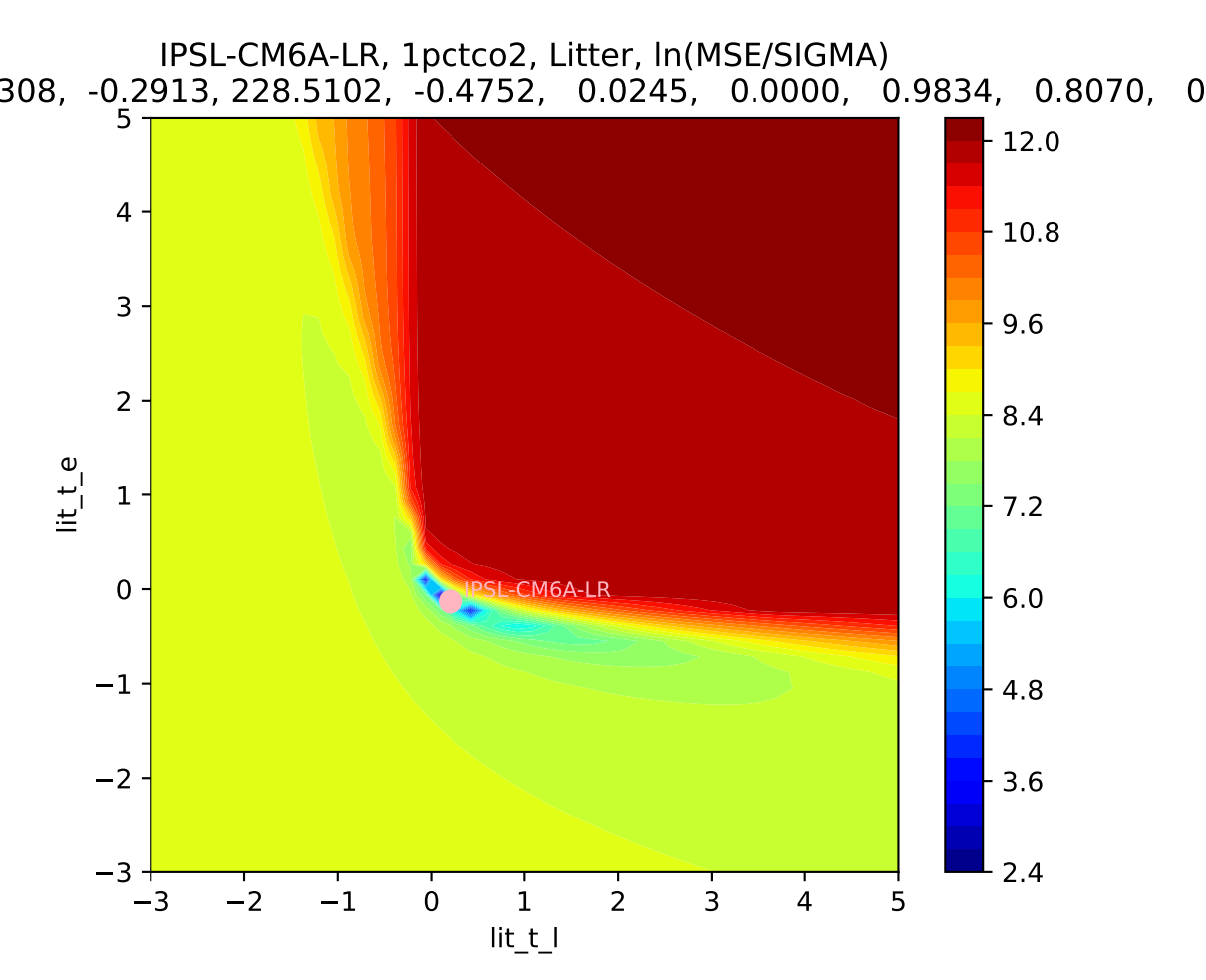

IPSL-CM6A-LR, 1pctco2, Litter
ESM-Fit
Litter, ESM - FIT
Year

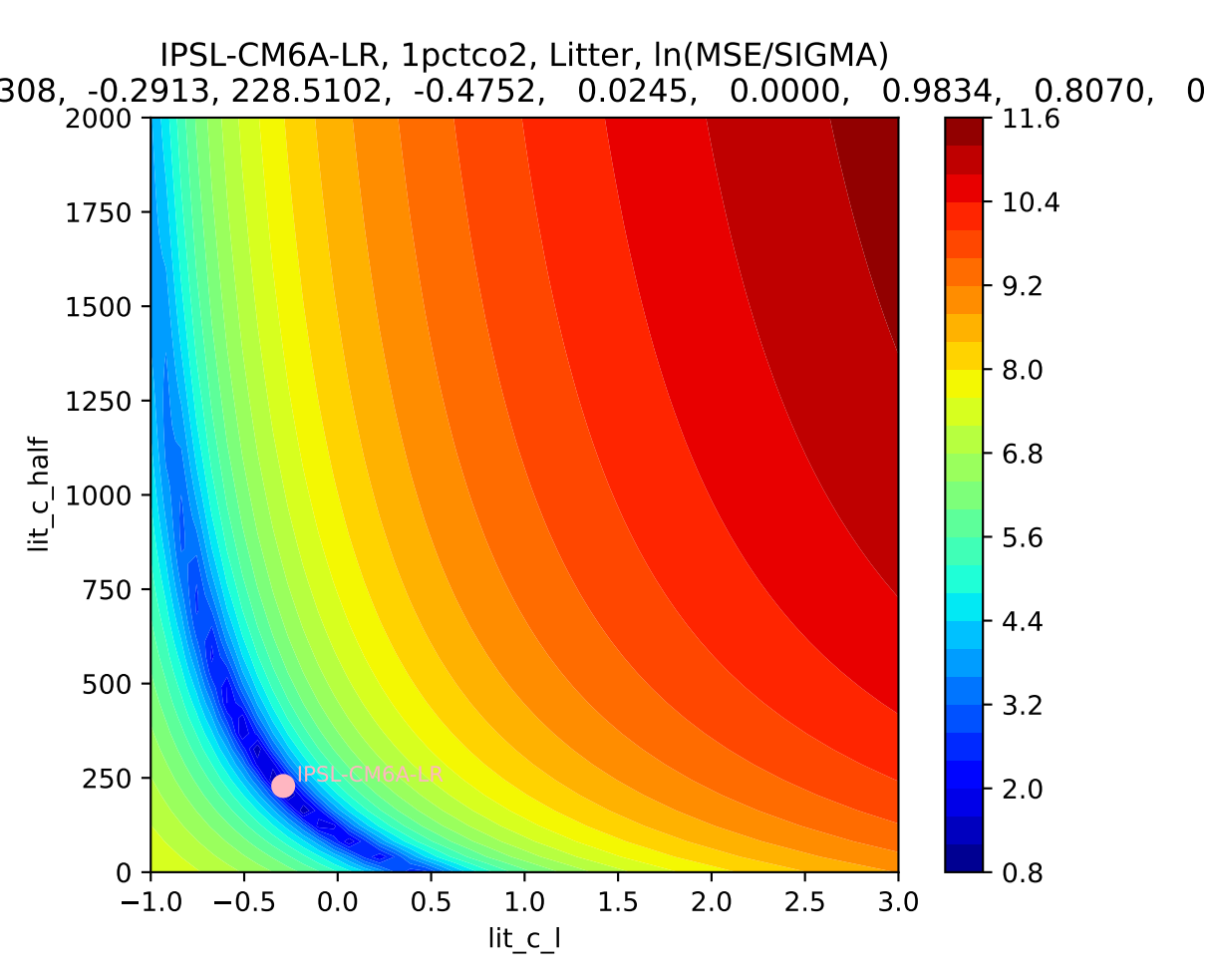

IPSL-CM6A-LR, 1pctco2, Litter
ESM
Fit
Litter
ΔT

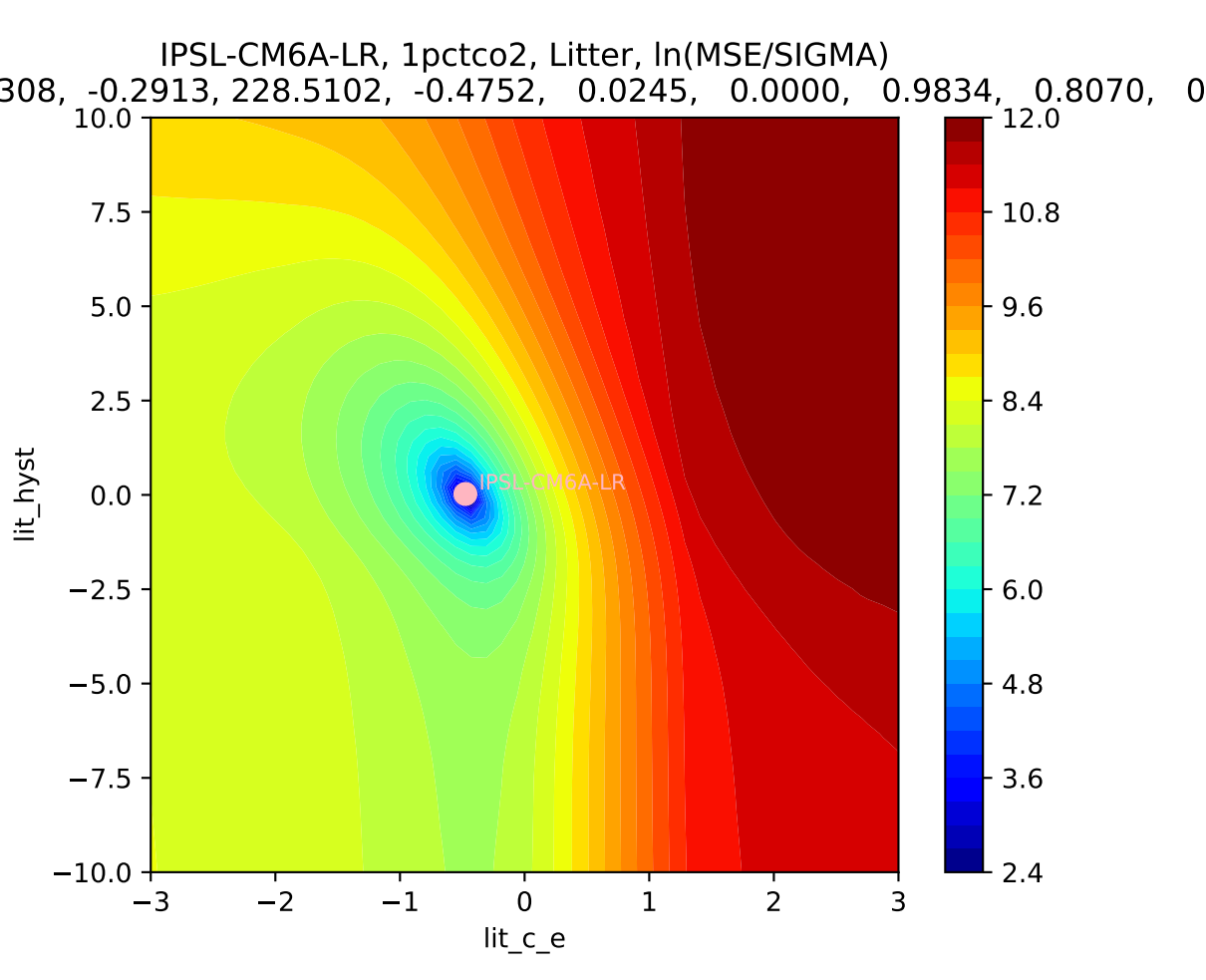

IPSL-CM6A-LR, 1pctco2, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

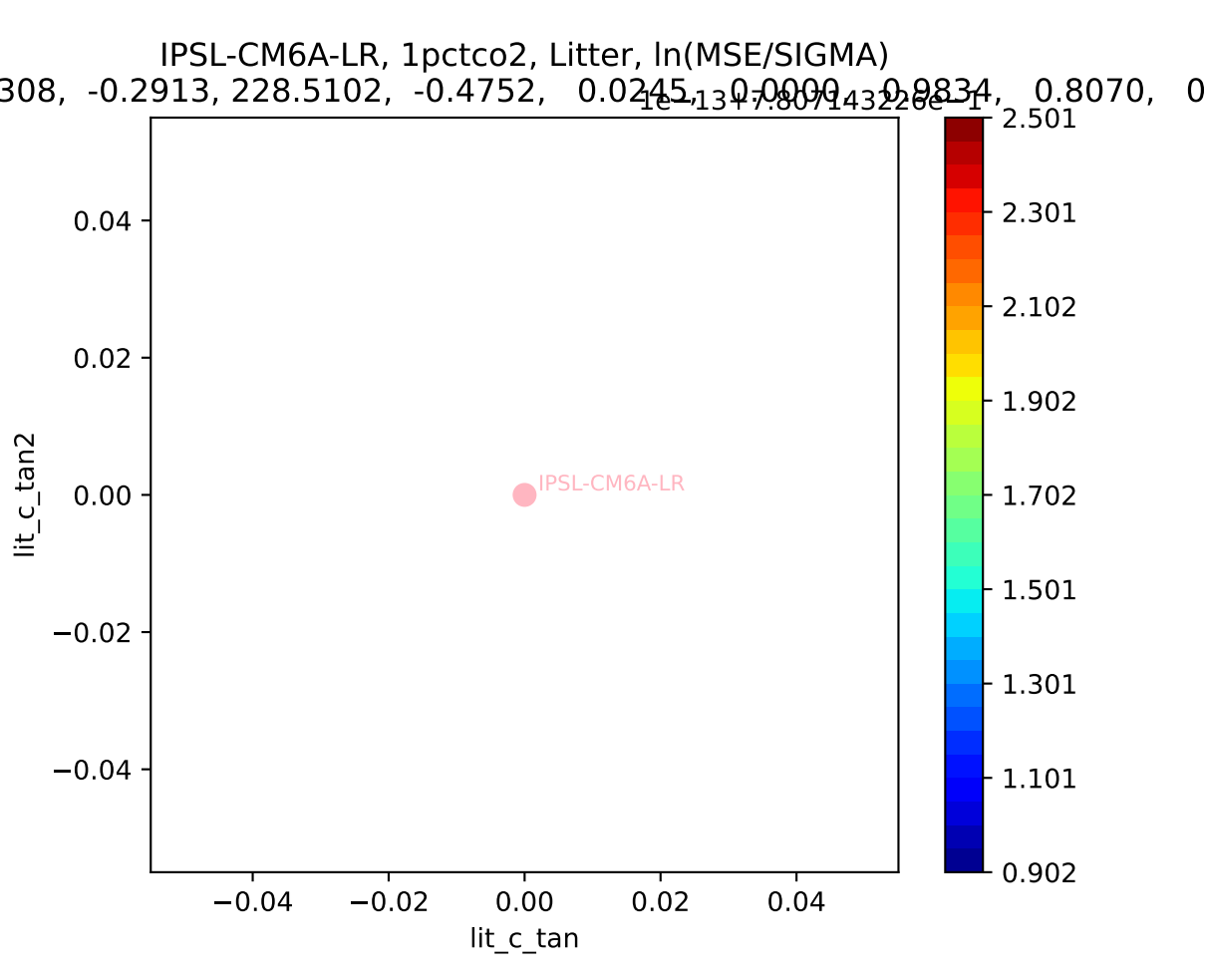

IPSL-CM6A-LR, 1pctco2, Litter
ESM
Fit
Litter
c_atm

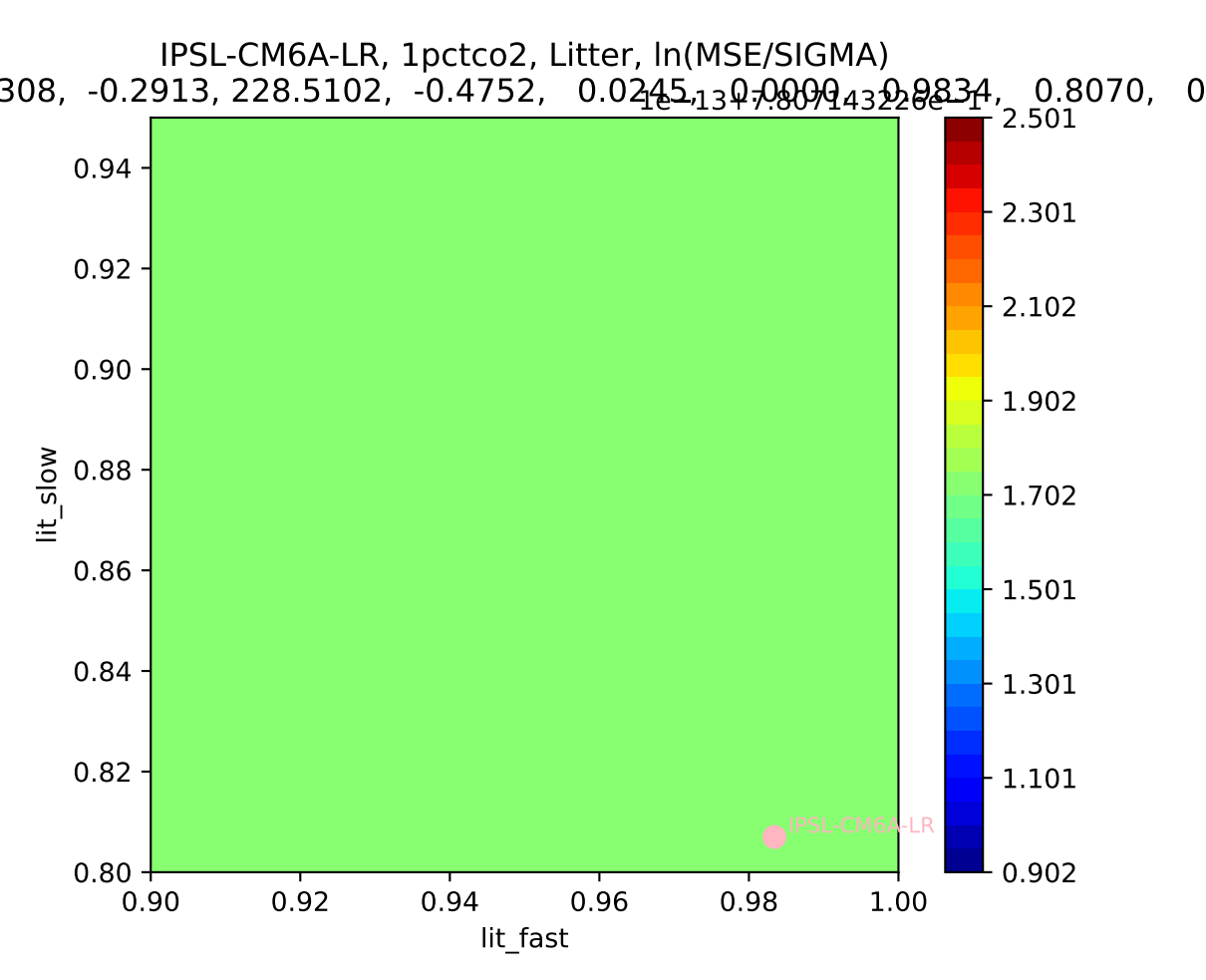

IPSL-CM6A-LR, 1pctco2, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

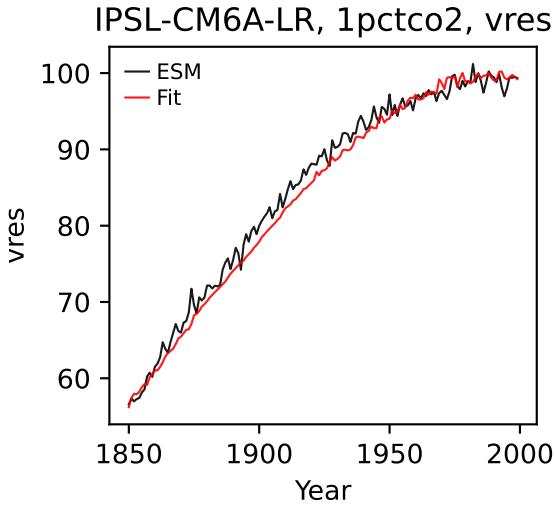

IPSL-CM6A-LR, 1pctco2, Litter, ln(MSE/SIGMA)
308, -0.2913, 228.5102, -0.4752, 0.0245, 0.0000, 0.9834, 0.8070, 0
IPSL-CM6A-LR
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
12.0
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4

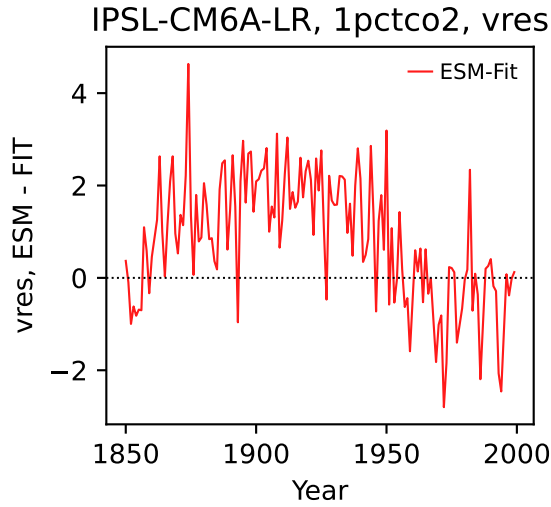

IPSL-CM6A-LR, 1pctco2, Litter, ln(MSE/SIGMA)
308, -0.2913, 228.5102, -0.4752, 0.0245, 0.0000, 0.9834, 0.8070, 0
lit_c_half
lit_c_l
IPSL-CM6A-LR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
11.6
10.4
9.2
8.0
6.8
5.6
4.4
3.2
2.0
0.8

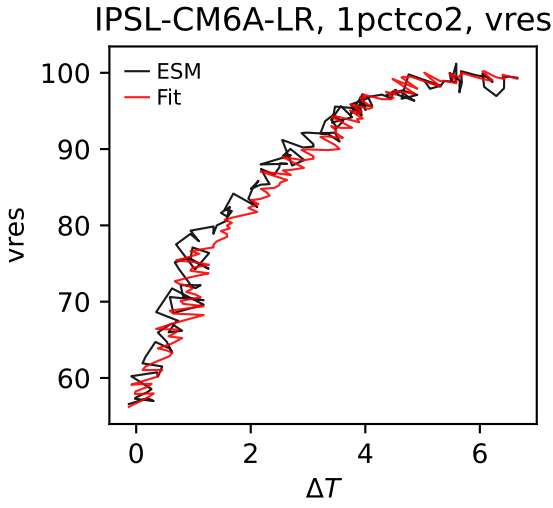

IPSL-CM6A-LR, 1pctco2, Litter, ln(MSE/SIGMA)
308, -0.2913, 228.5102, -0.4752, 0.0245, 0.0000, 0.9834, 0.8070, 0
IPSL-CM6A-LR
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
12.0
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4

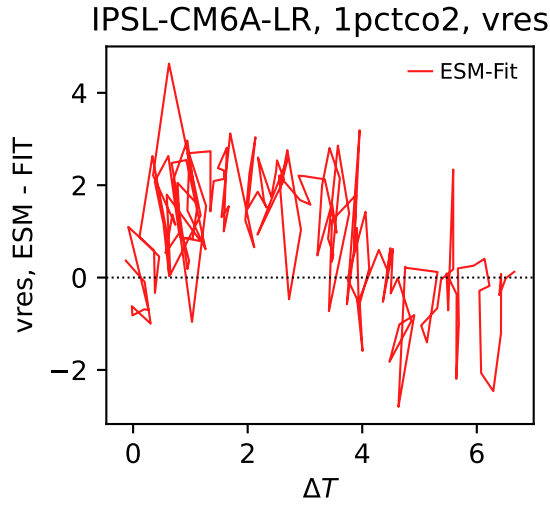

IPSL-CM6A-LR, 1pctco2, Litter, ln(MSE/SIGMA)
308, -0.2913, 228.5102, -0.4752, 0.0245, 0.0000, 0.9834, 0.8070, 0
1e−13+7.807143226e−1
IPSL-CM6A-LR
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
2.501
2.301
2.102
1.902
1.702
1.501
1.301
1.101
0.902

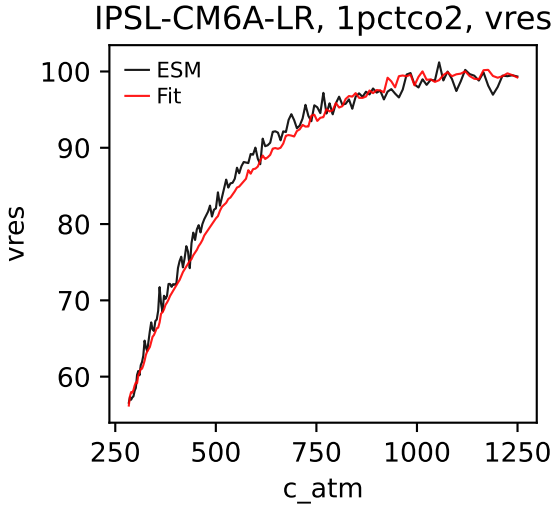

IPSL-CM6A-LR, 1pctco2, Litter, ln(MSE/SIGMA)
308, -0.2913, 228.5102, -0.4752, 0.0245, 0.0000, 0.9834, 0.8070, 0
1e−13+7.807143226e−1
2.501
2.301
2.102
1.902
1.702
1.501
1.301
1.101
0.902
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
lit_slow
IPSL-CM6A-LR
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast

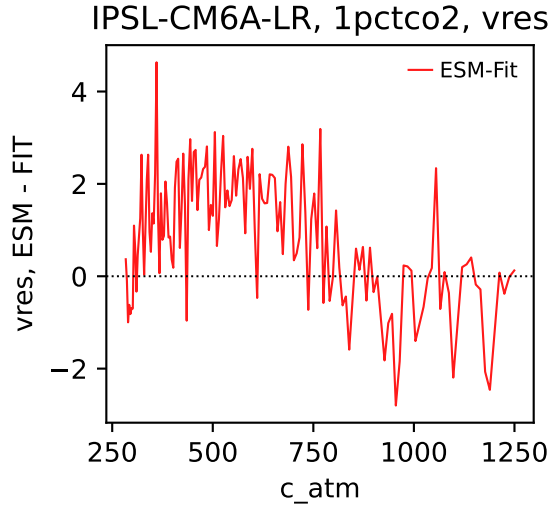

IPSL-CM6A-LR, 1pctco2, vres
ESM
Fit
vres
Year

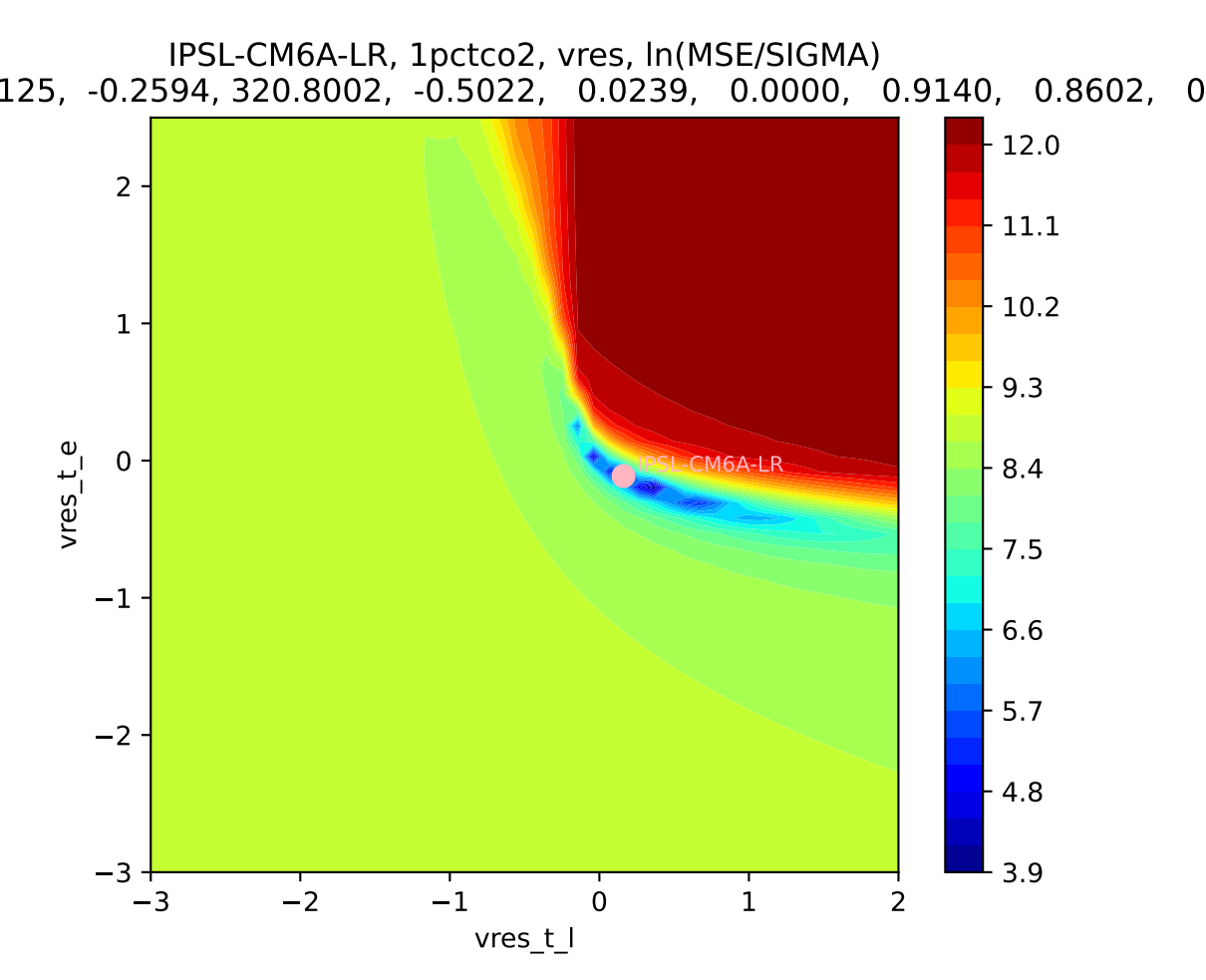

IPSL-CM6A-LR, 1pctco2, vres
ESM-Fit
vres, ESM - FIT
Year

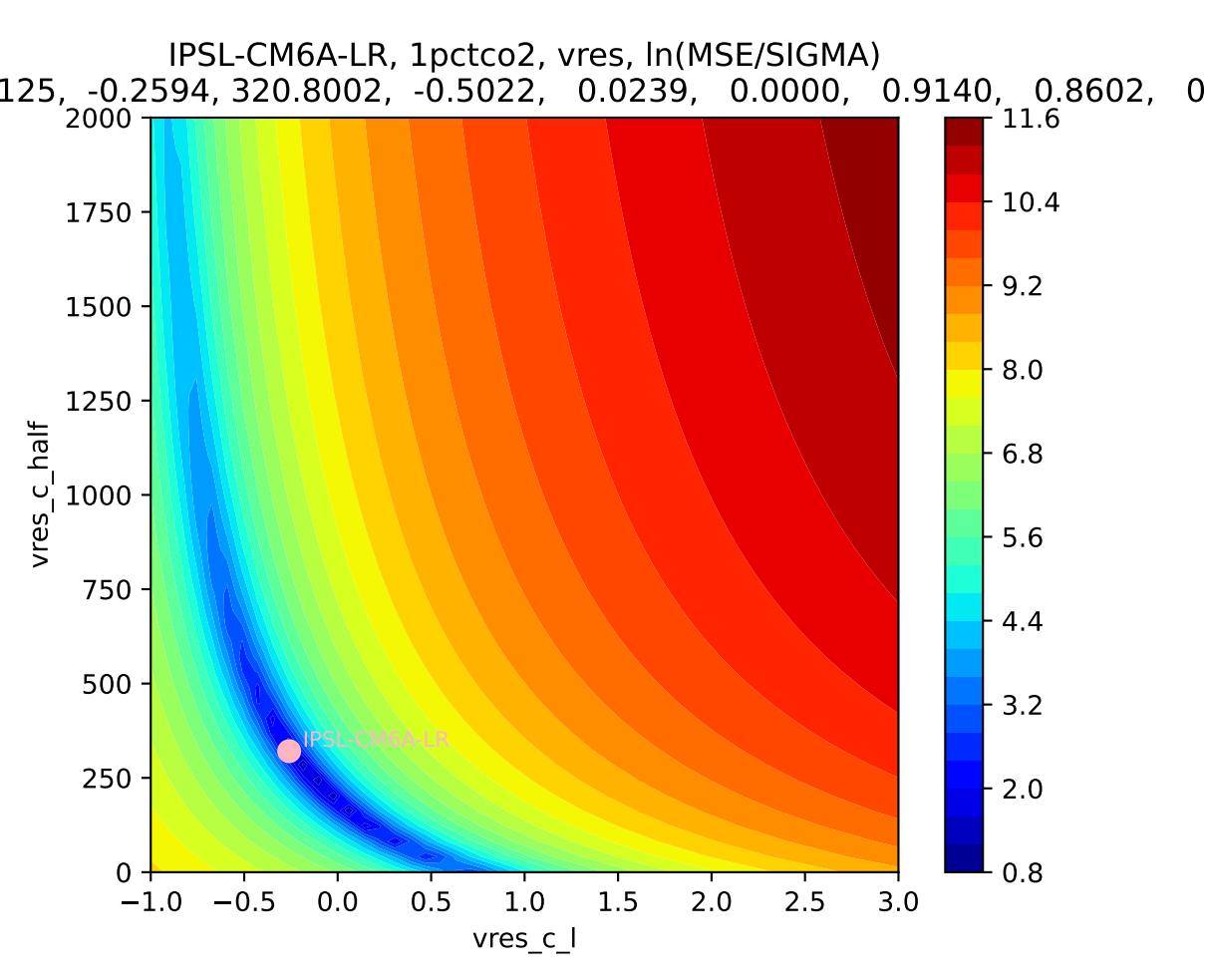

IPSL-CM6A-LR, 1pctco2, vres
ESM
Fit
vres
ΔT

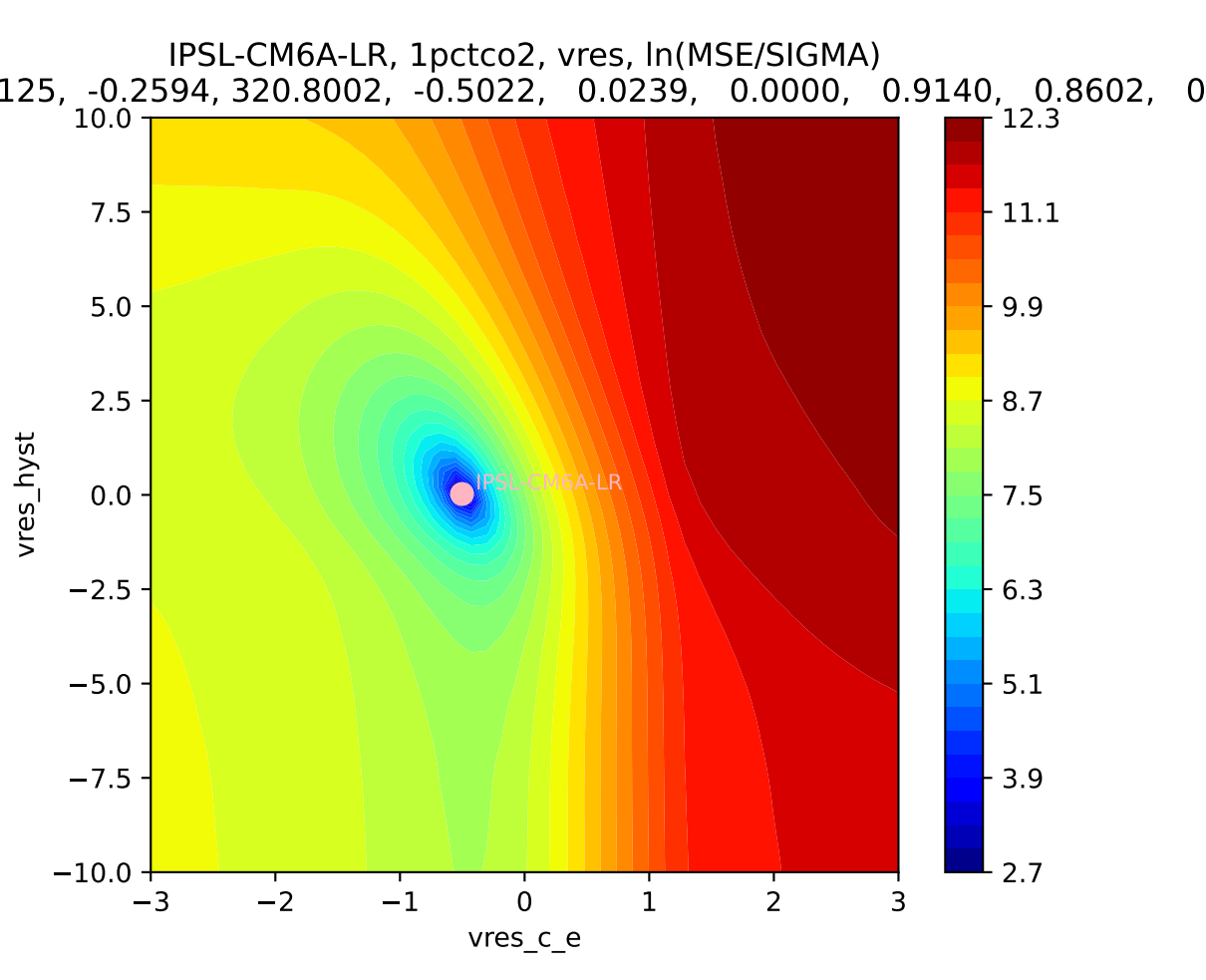

IPSL-CM6A-LR, 1pctco2, vres
ESM-Fit
vres, ESM - FIT
ΔT

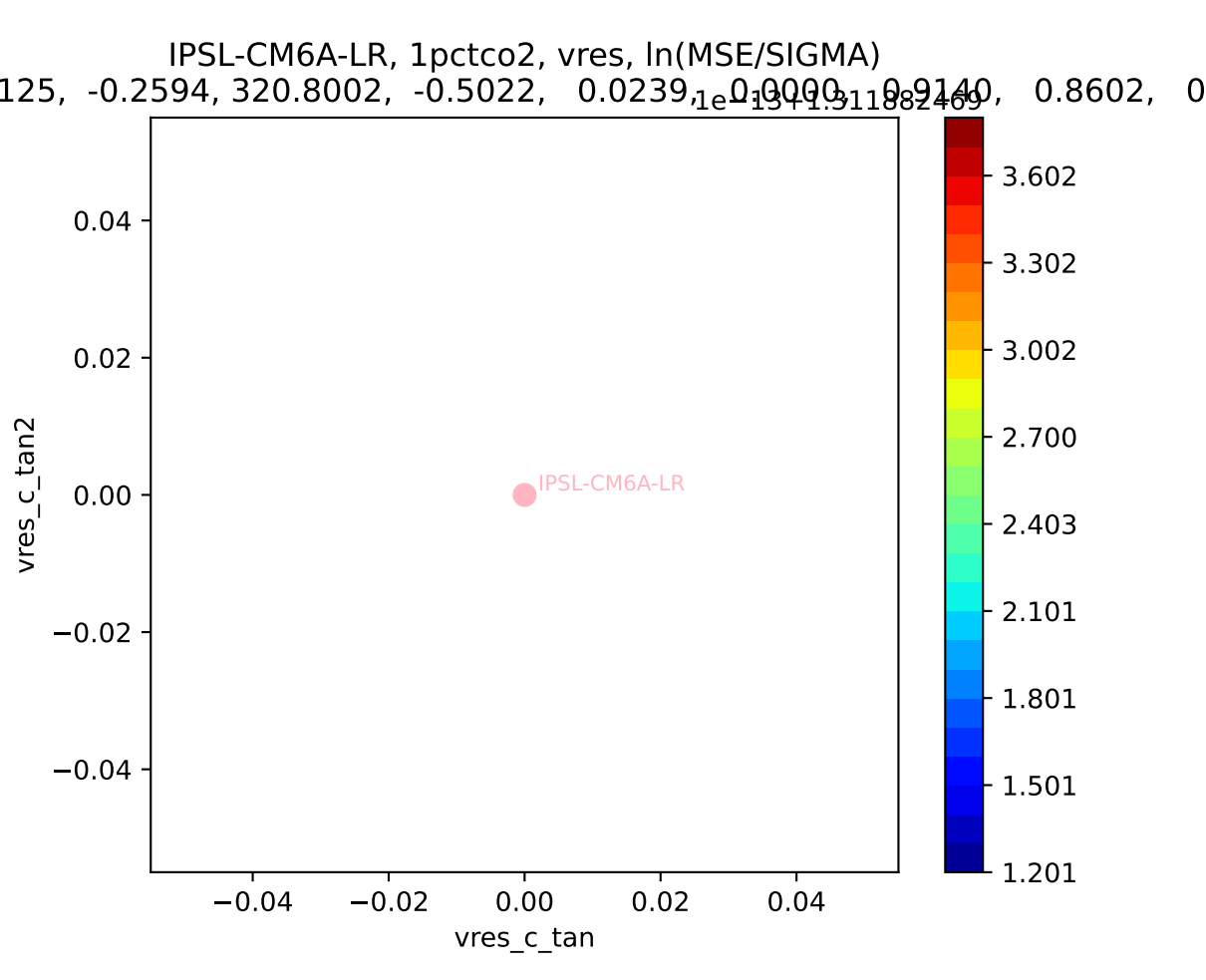

IPSL-CM6A-LR, 1pctco2, vres
ESM
Fit
vres
c_atm

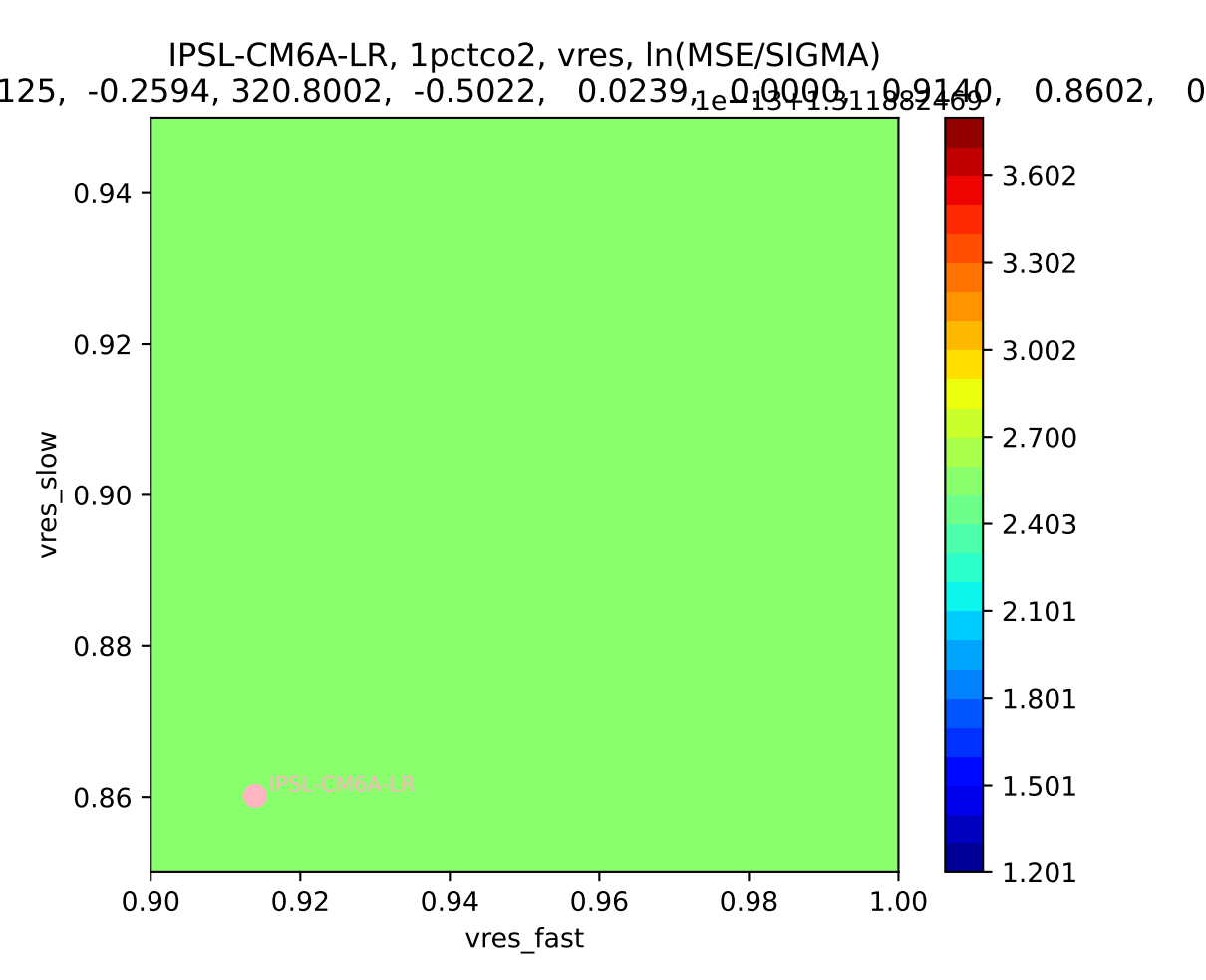

IPSL-CM6A-LR, 1pctco2, vres
ESM-Fit
vres, ESM - FIT
c_atm

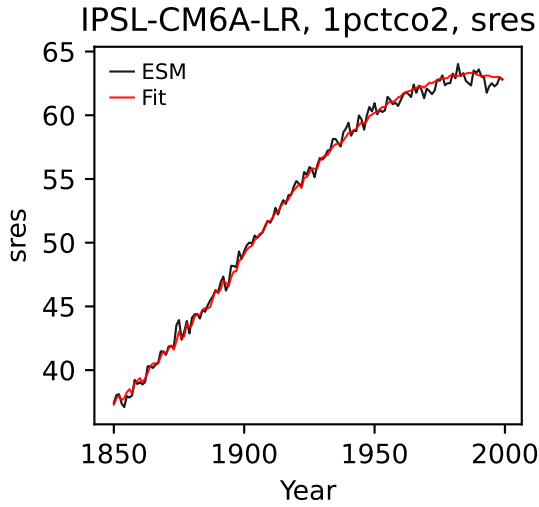

IPSL-CM6A-LR, 1pctco2, vres, ln(MSE/SIGMA)
125, -0.2594, 320.8002, -0.5022, 0.0239, 0.0000, 0.9140, 0.8602, 0
IPSL-CM6A-LR
vres_t_e
vres_t_l
12.0
11.1
10.2
9.3
8.4
7.5
6.6
5.7
4.8
3.9

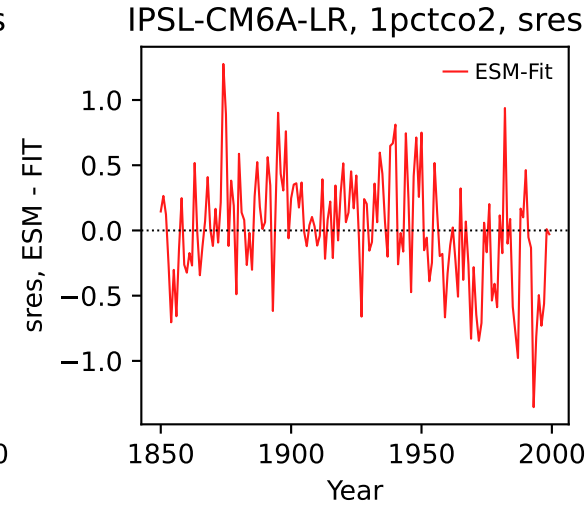

IPSL-CM6A-LR, 1pctco2, vres, ln(MSE/SIGMA)
125, -0.2594, 320.8002, -0.5022, 0.0239, 0.0000, 0.9140, 0.8602, 0
vres_c_half
vres_c_l
IPSL-CM6A-LR
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
11.6
10.4
9.2
8.0
6.8
5.6
4.4
3.2
2.0
0.8

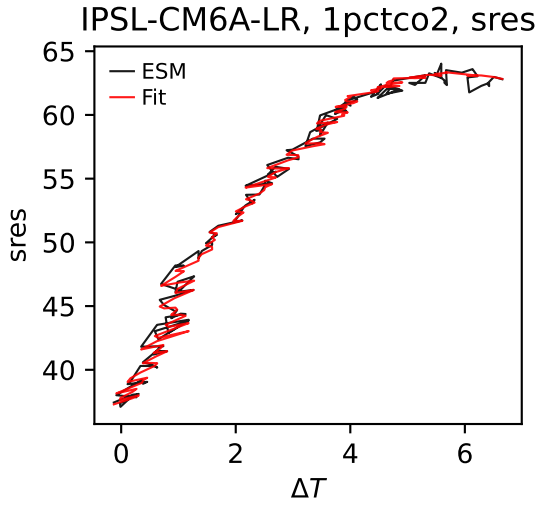

IPSL-CM6A-LR, 1pctco2, vres, ln(MSE/SIGMA)
125, -0.2594, 320.8002, -0.5022, 0.0239, 0.0000, 0.9140, 0.8602, 0
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
vres_hyst
IPSL-CM6A-LR
−3
−2
−1
0
1
2
3
vres_c_e
12.3
11.1
9.9
8.7
7.5
6.3
5.1
3.9
2.7

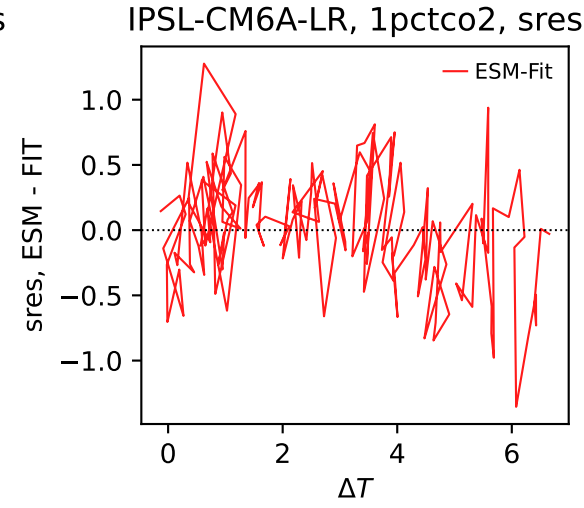

IPSL-CM6A-LR, 1pctco2, vres, ln(MSE/SIGMA)
125, -0.2594, 320.8002, -0.5022, 0.0239, 0.0000, 0.9140, 0.8602, 0
1e-13+1.311882469
IPSL-CM6A-LR
vres_c_tan2
vres_c_tan
0.04
0.02
0.00
−0.02
−0.04
3.602
3.302
3.002
2.700
2.403
2.101
1.801
1.501
1.201

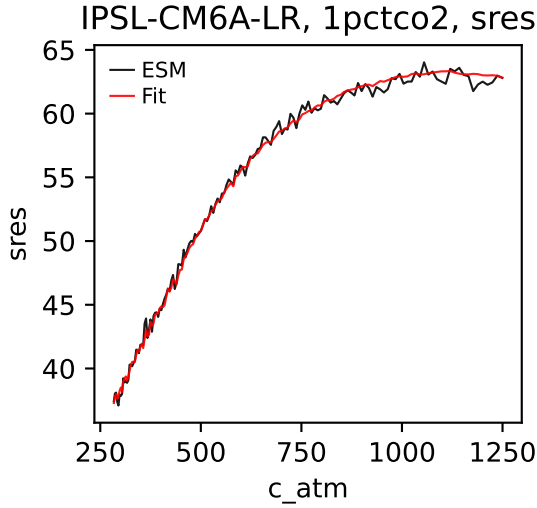

IPSL-CM6A-LR, 1pctco2, vres, ln(MSE/SIGMA)
125, -0.2594, 320.8002, -0.5022, 0.0239, 0.0000, 0.9140, 0.8602, 0
1e-13+1.311882469
3.602
3.302
3.002
2.700
2.403
2.101
1.801
1.501
1.201
0.94
0.92
0.90
0.88
0.86
vres_slow
IPSL-CM6A-LR
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast

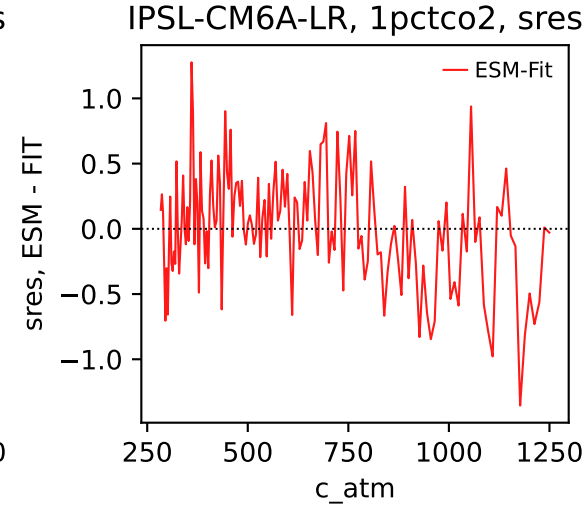

IPSL-CM6A-LR, 1pctco2, sres
ESM
Fit
sres
Year

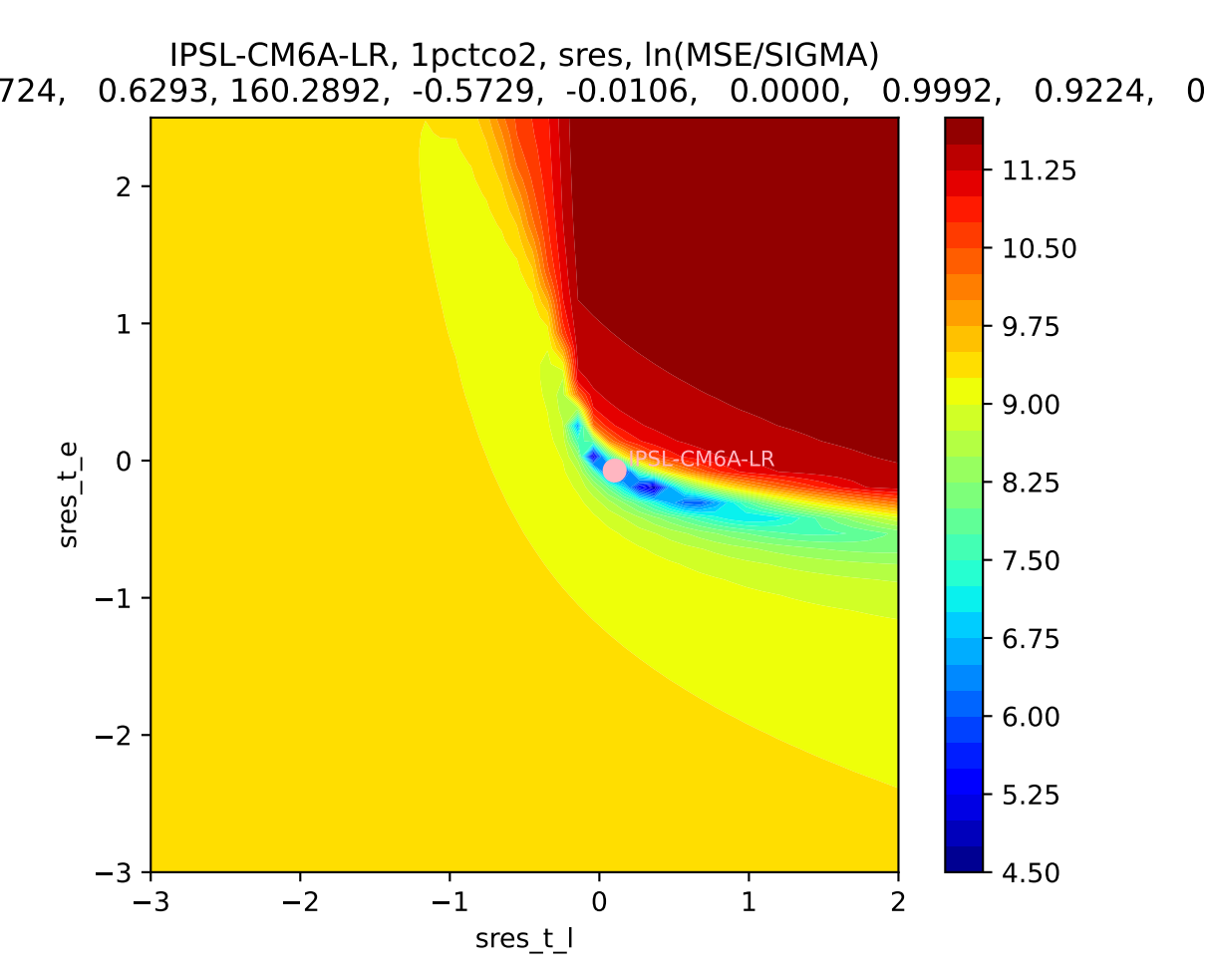

IPSL-CM6A-LR, 1pctco2, sres
ESM-Fit
sres, ESM - FIT
Year

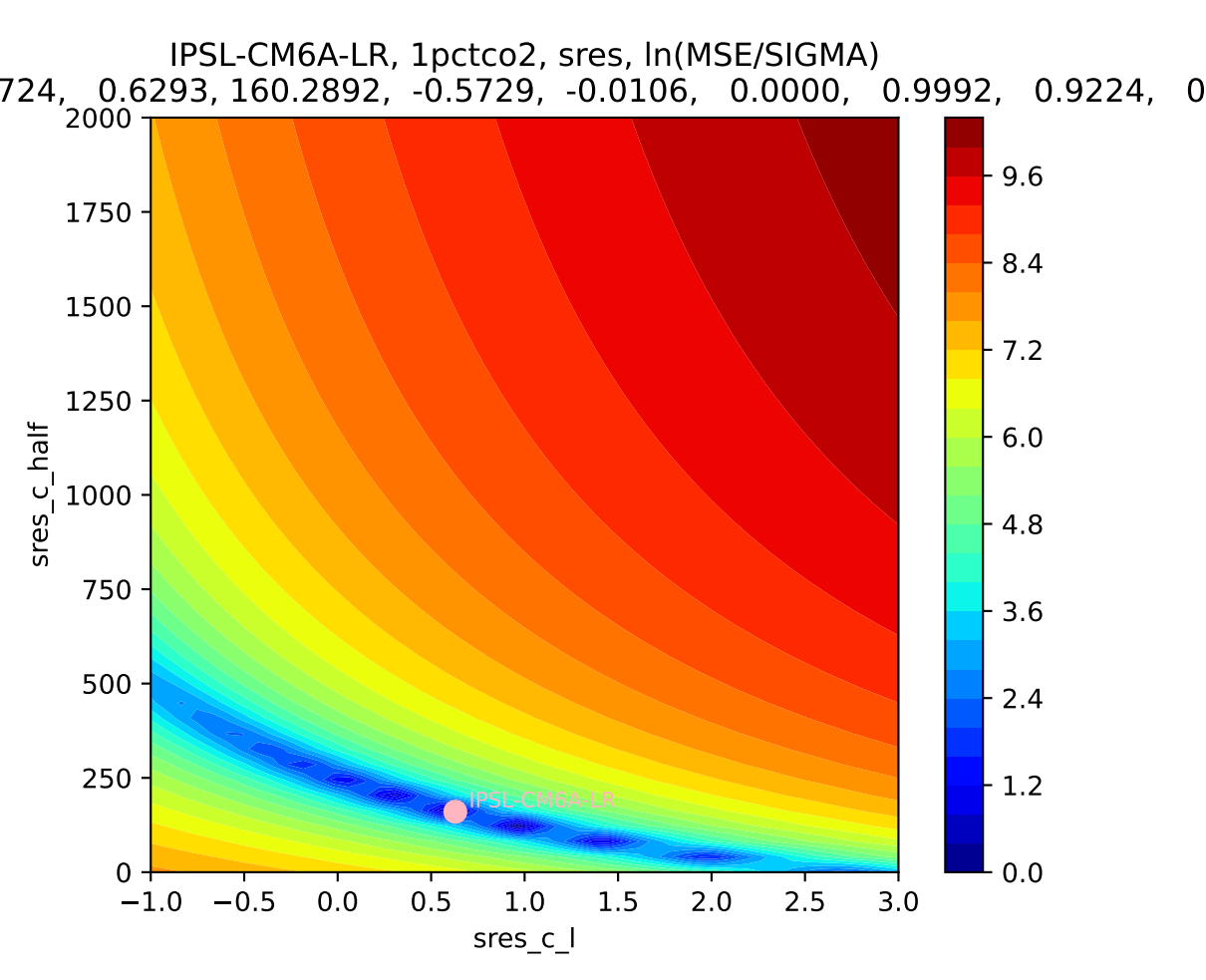

IPSL-CM6A-LR, 1pctco2, sres
ESM
Fit
sres
ΔT

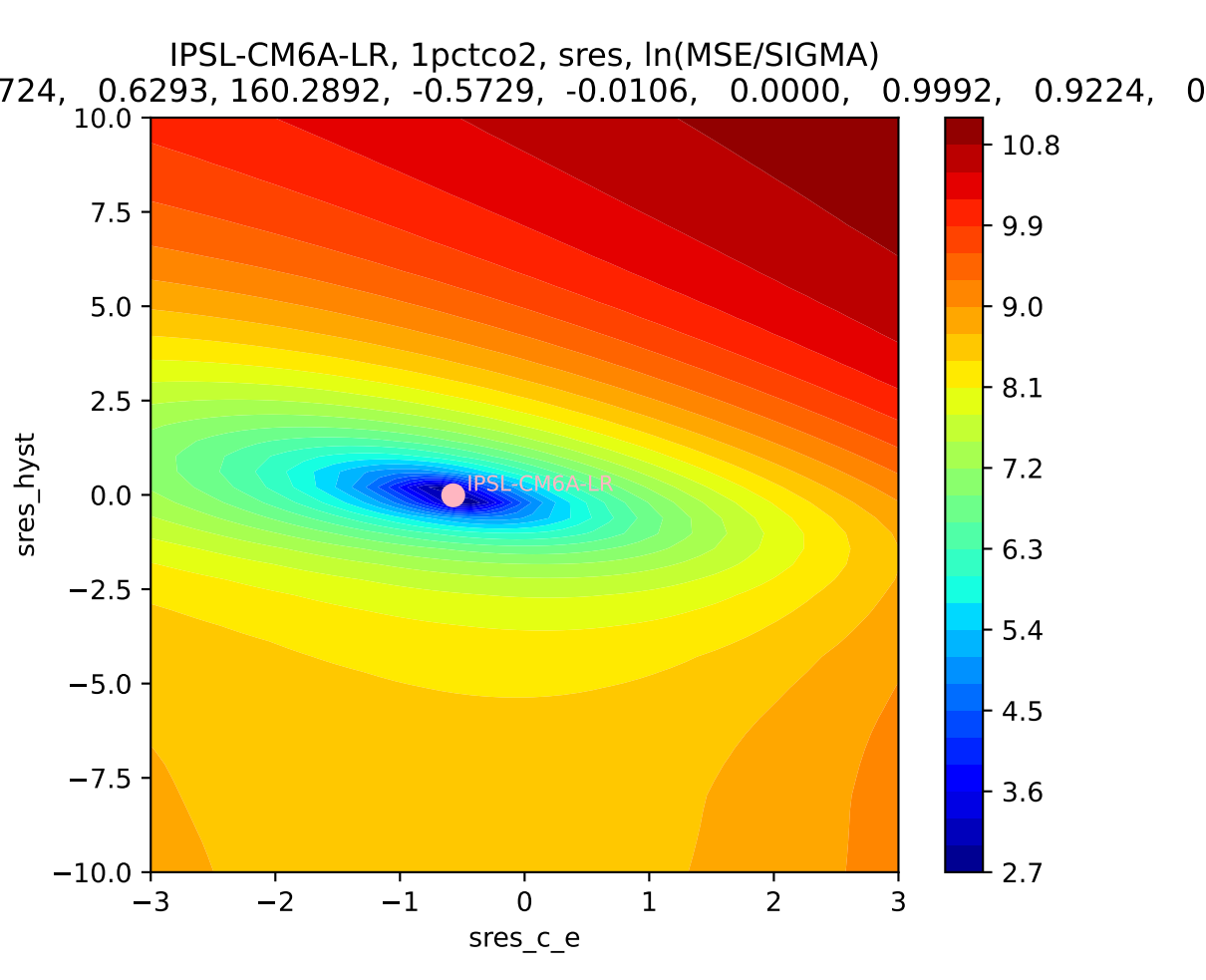

IPSL-CM6A-LR, 1pctco2, sres
ESM-Fit
sres, ESM - FIT
ΔT

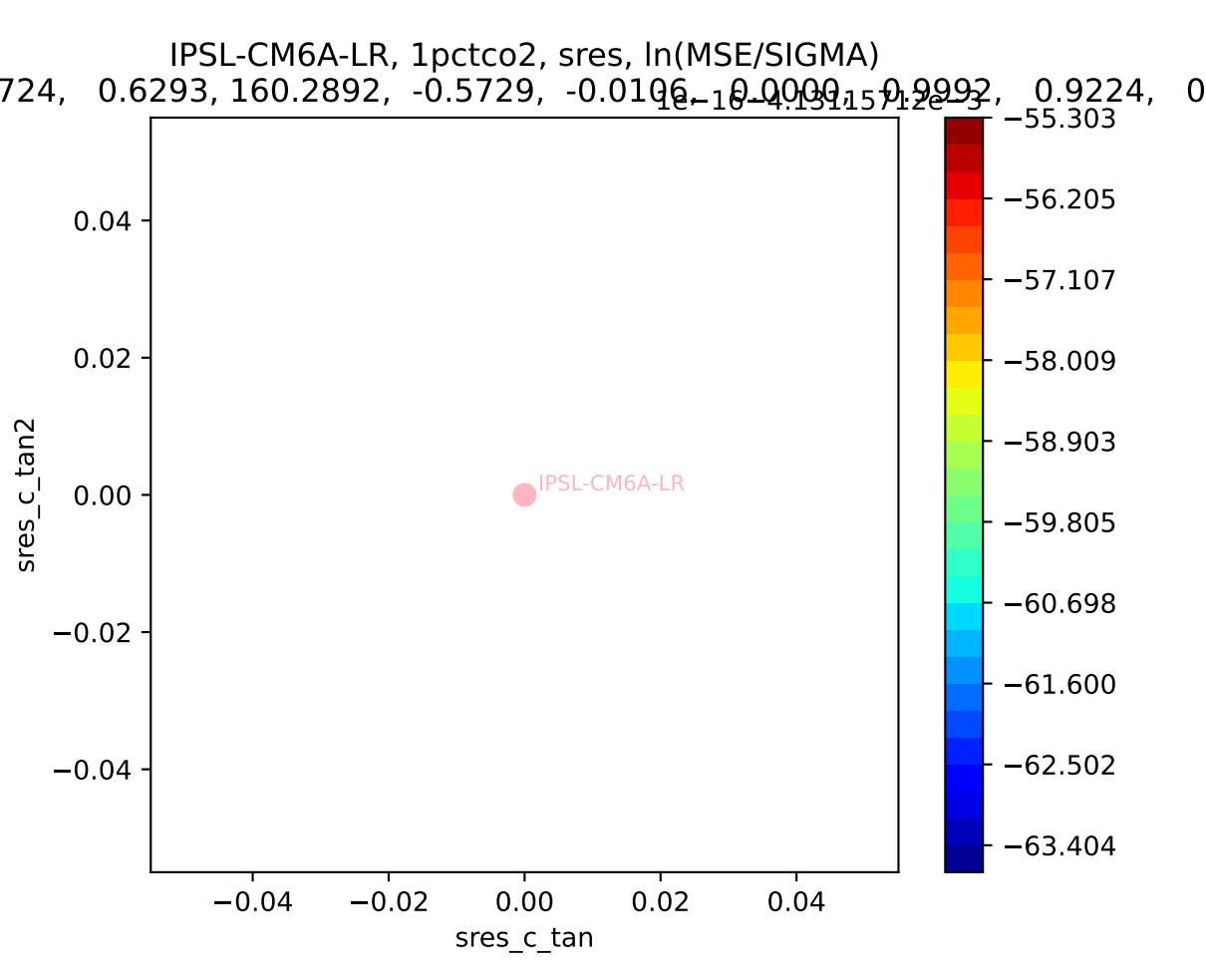

IPSL-CM6A-LR, 1pctco2, sres
ESM
Fit
sres
c_atm

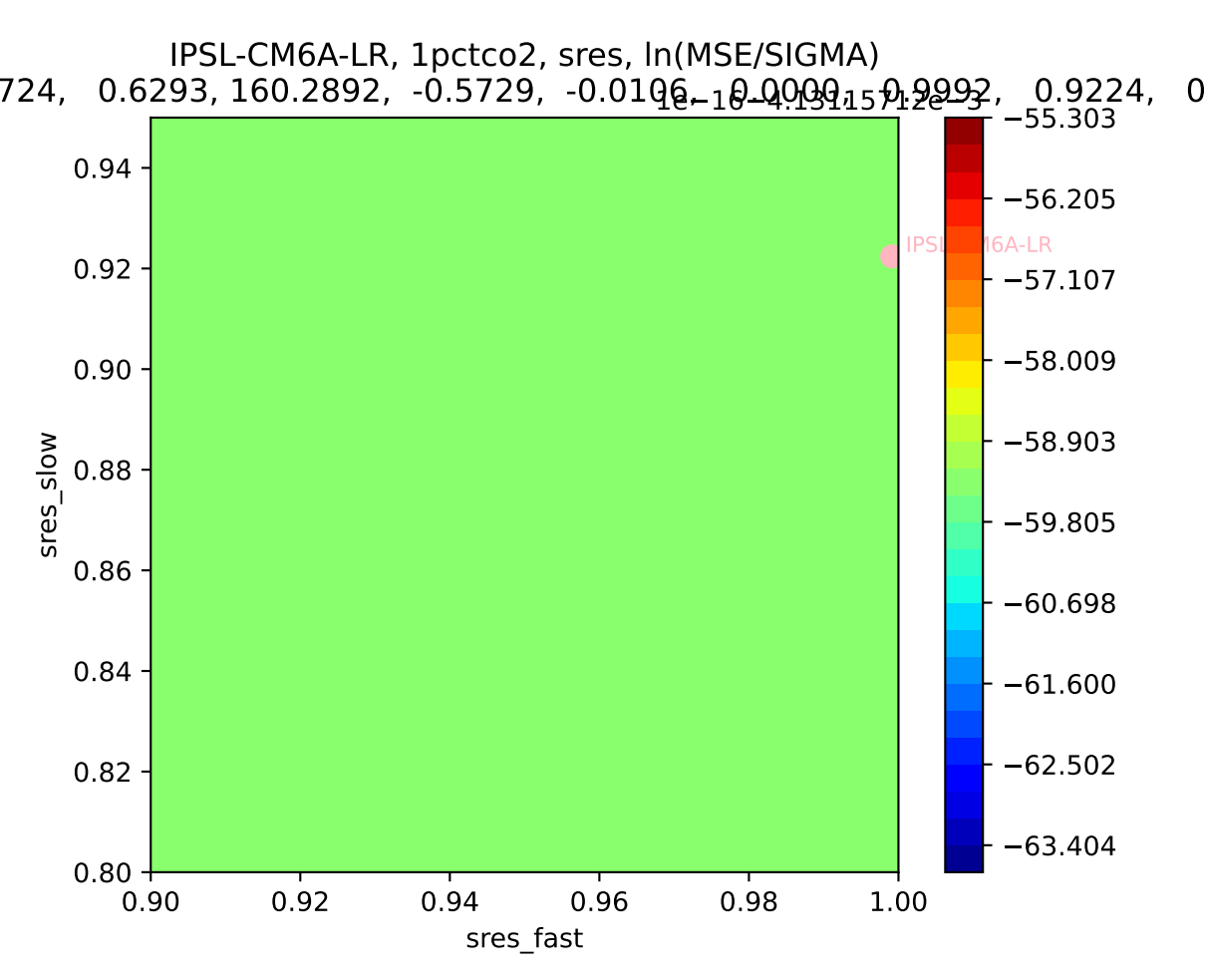

IPSL-CM6A-LR, 1pctco2, sres
ESM-Fit
sres, ESM - FIT
c_atm

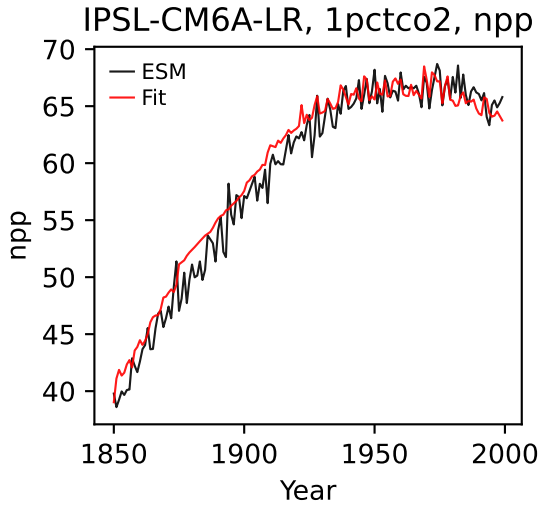

IPSL-CM6A-LR, 1pctco2, sres, ln(MSE/SIGMA)
724, 0.6293, 160.2892, -0.5729, -0.0106, 0.0000, 0.9992, 0.9224, 0
IPSL-CM6A-LR
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
11.25
10.50
9.75
9.00
8.25
7.50
6.75
6.00
5.25
4.50

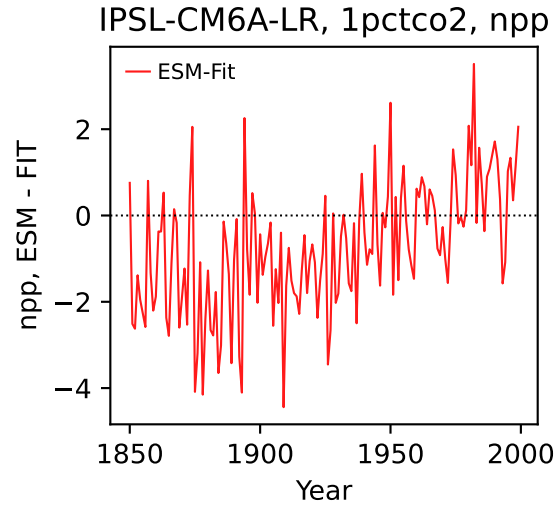

IPSL-CM6A-LR, 1pctco2, sres, ln(MSE/SIGMA)
724, 0.6293, 160.2892, -0.5729, -0.0106, 0.0000, 0.9992, 0.9224, 0
2000
1750
1500
1250
1000
750
500
250
0
sres_c_half
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
sres_c_l
IPSL-CM6A-LR
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

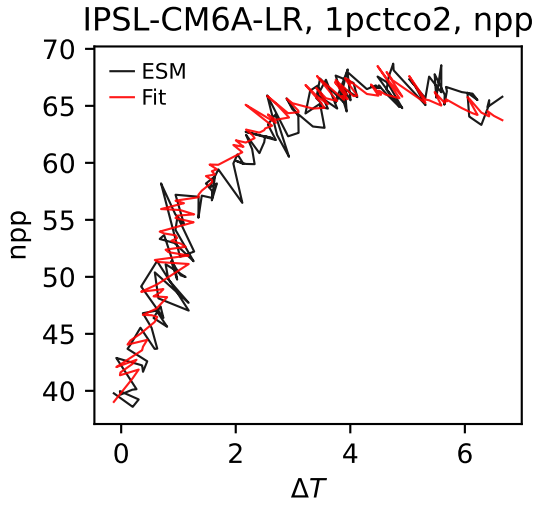

IPSL-CM6A-LR, 1pctco2, sres, ln(MSE/SIGMA)
724, 0.6293, 160.2892, -0.5729, -0.0106, 0.0000, 0.9992, 0.9224, 0
IPSL-CM6A-LR
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7

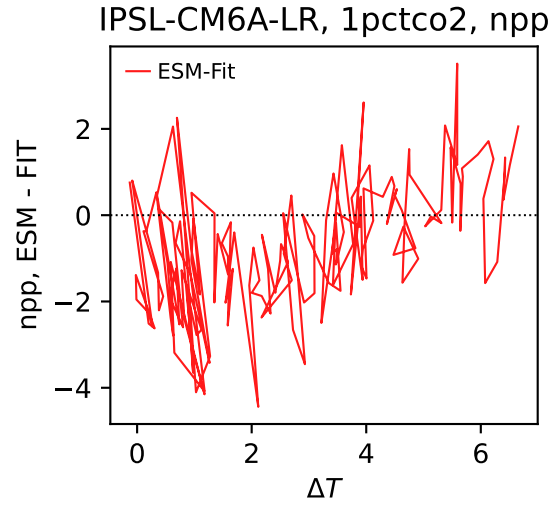

IPSL-CM6A-LR, 1pctco2, sres, ln(MSE/SIGMA)
724, 0.6293, 160.2892, -0.5729, -0.0106, 0.0000, 0.9992, 0.9224, 0
1e−10−4.131157 1e−3
IPSL-CM6A-LR
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
−55.303
−56.205
−57.107
−58.009
−58.903
−59.805
−60.698
−61.600
−62.502
−63.404

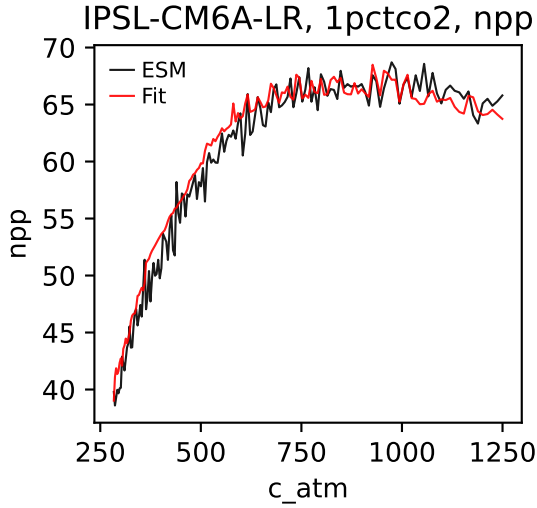

IPSL-CM6A-LR, 1pctco2, sres, ln(MSE/SIGMA)
724, 0.6293, 160.2892, -0.5729, -0.0106, 0.0000, 0.9992, 0.9224, 0
1e−16−4.131157 1e−3
IPSL-CM6A-LR
sres_slow
sres_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
−55.303
−56.205
−57.107
−58.009
−58.903
−59.805
−60.698
−61.600
−62.502
−63.404

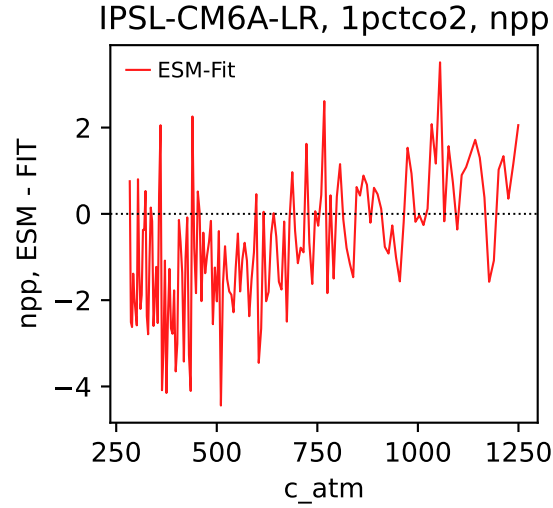

IPSL-CM6A-LR, 1pctco2, npp
ESM
Fit
npp
Year

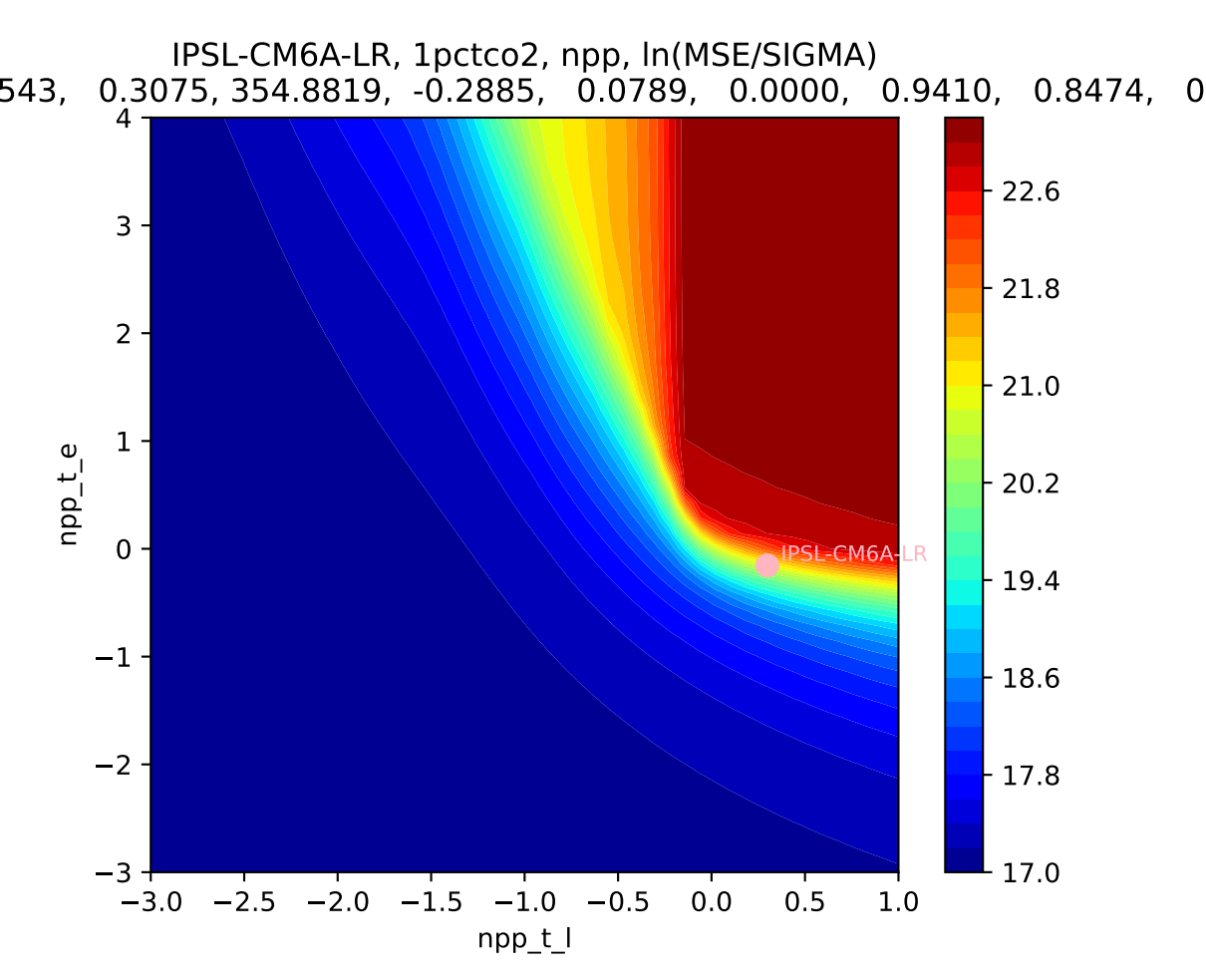

IPSL-CM6A-LR, 1pctco2, npp
ESM-Fit
npp, ESM - FIT
Year

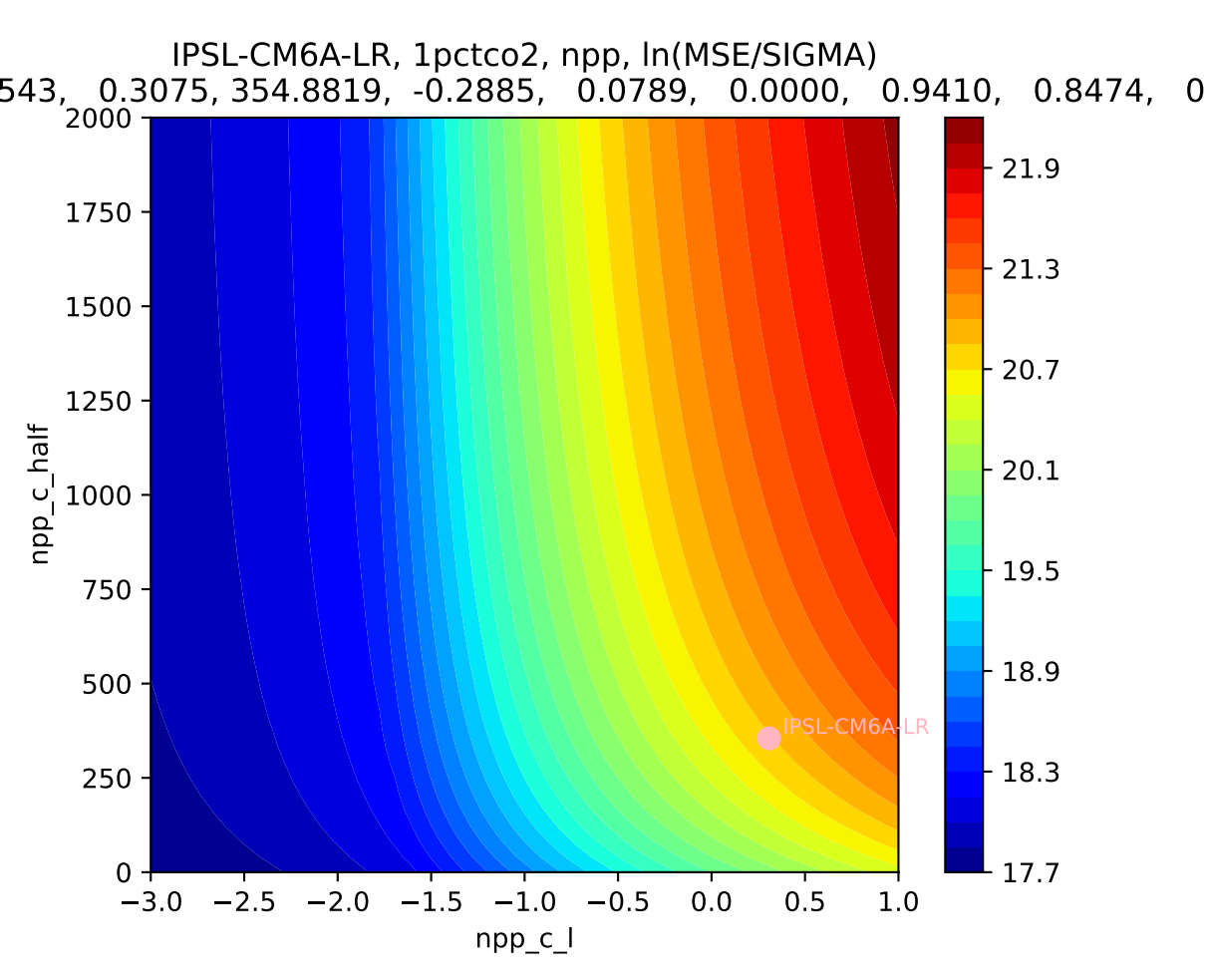

IPSL-CM6A-LR, 1pctco2, npp
ESM
Fit
npp
ΔT

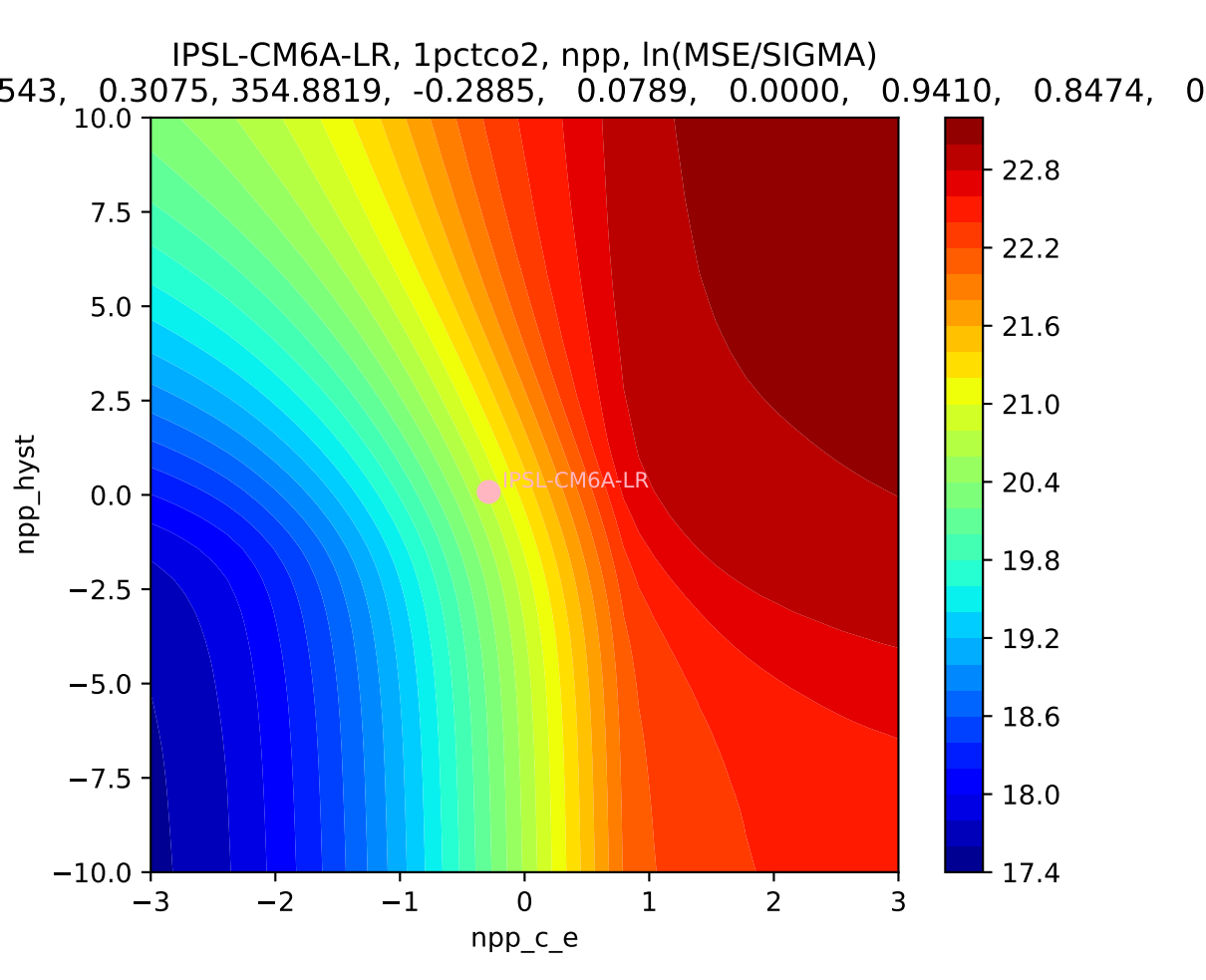

IPSL-CM6A-LR, 1pctco2, npp
ESM-Fit
npp, ESM - FIT
ΔT

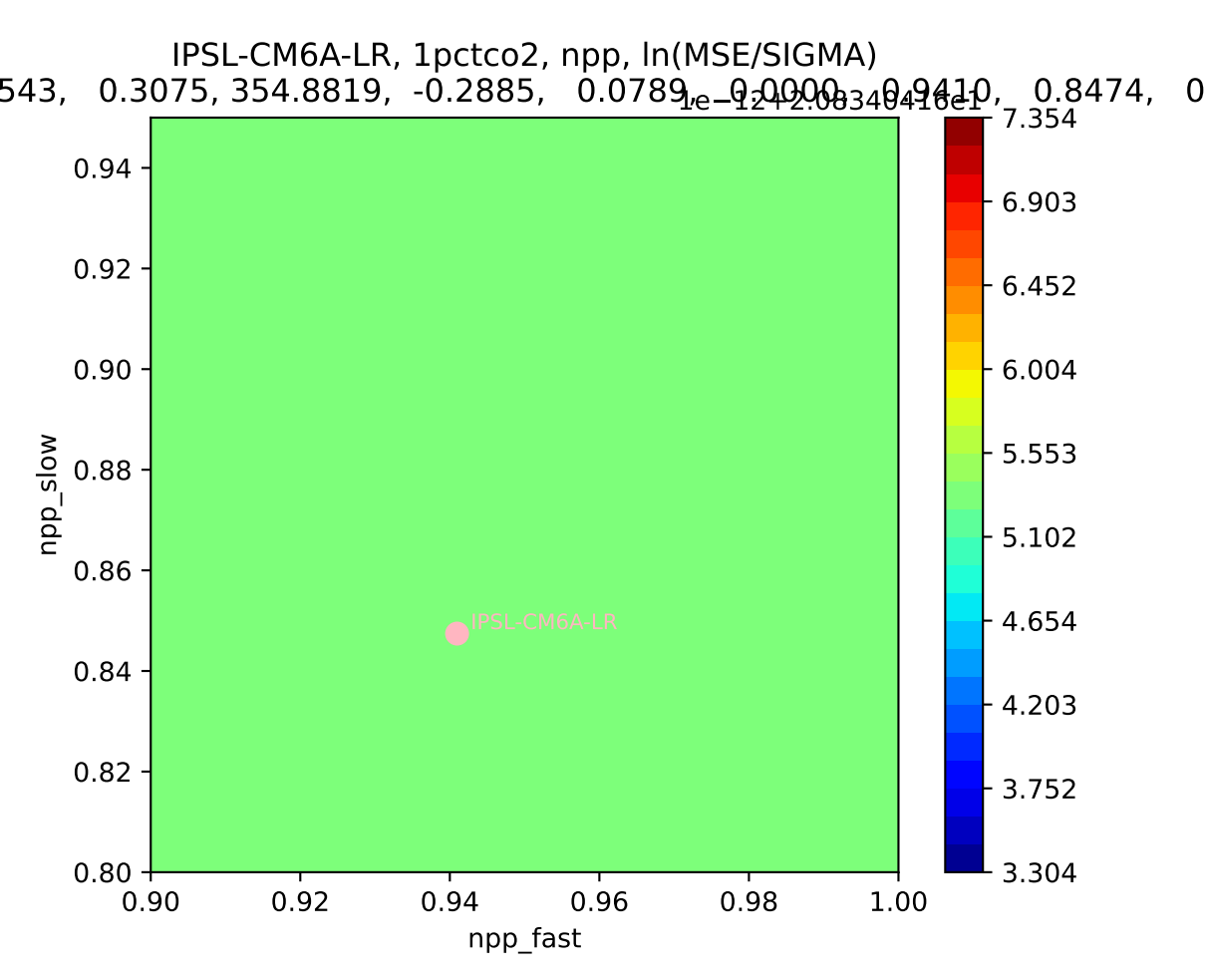

IPSL-CM6A-LR, 1pctco2, npp
ESM
Fit
npp
c_atm

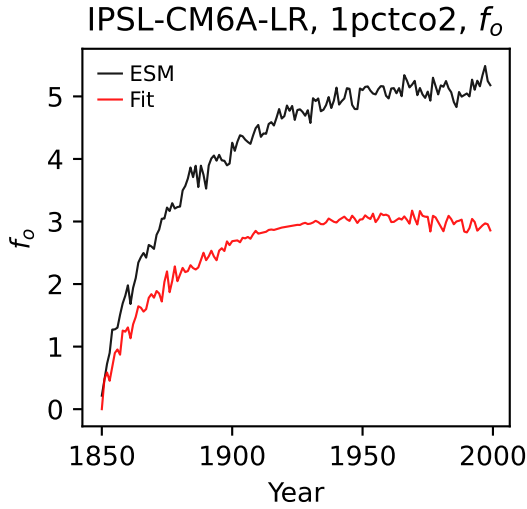

IPSL-CM6A-LR, 1pctco2, npp
ESM-Fit
npp, ESM - FIT
c_atm

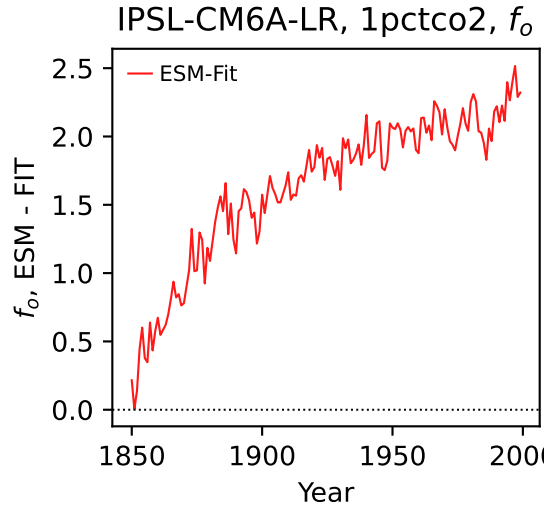

IPSL-CM6A-LR, 1pctco2, npp, ln(MSE/SIGMA)
543, 0.3075, 354.8819, -0.2885, 0.0789, 0.0000, 0.9410, 0.8474, 0
IPSL-CM6A-LR
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.6
21.8
21.0
20.2
19.4
18.6
17.8
17.0

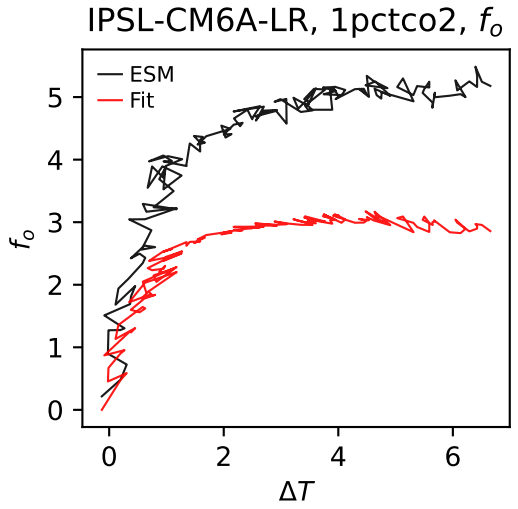

IPSL-CM6A-LR, 1pctco2, npp, ln(MSE/SIGMA)
543, 0.3075, 354.8819, -0.2885, 0.0789, 0.0000, 0.9410, 0.8474, 0
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
IPSL-CM6A-LR
21.9
21.3
20.7
20.1
19.5
18.9
18.3
17.7

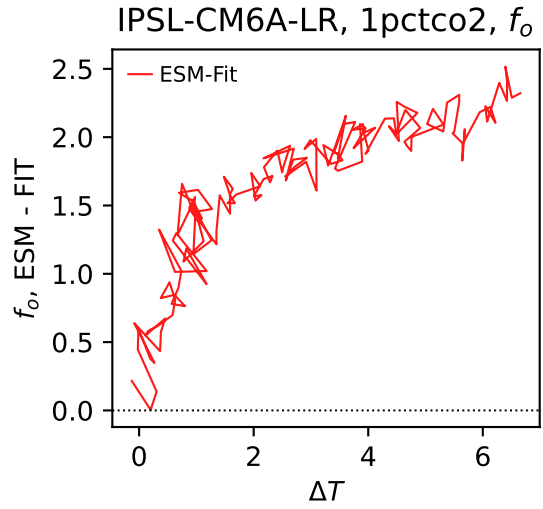

IPSL-CM6A-LR, 1pctco2, npp, ln(MSE/SIGMA)
543, 0.3075, 354.8819, -0.2885, 0.0789, 0.0000, 0.9410, 0.8474, 0
IPSL-CM6A-LR
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.8
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0
17.4

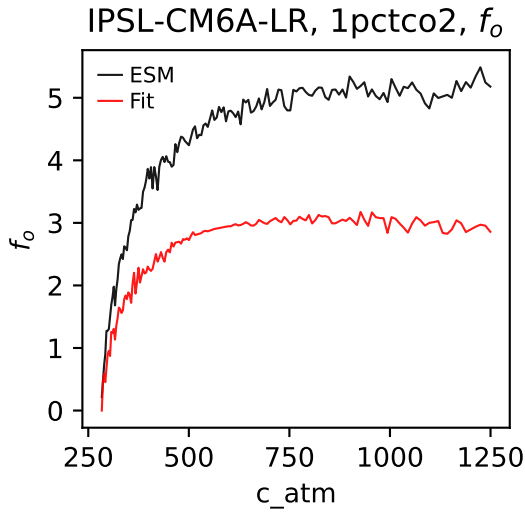

IPSL-CM6A-LR, 1pctco2, npp, ln(MSE/SIGMA)
543, 0.3075, 354.8819, -0.2885, 0.0789, 0.0000, 0.9410, 0.8474, 0
1e−12+2.083404416e1
7.354
6.903
6.452
6.004
5.553
5.102
4.654
4.203
3.752
3.304
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
npp_slow
IPSL-CM6A-LR
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast

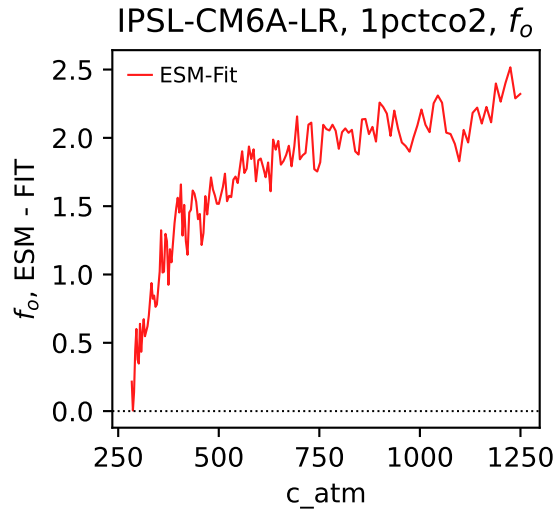

IPSL-CM6A-LR, 1pctco2, f_o
ESM
Fit
f_o
Year

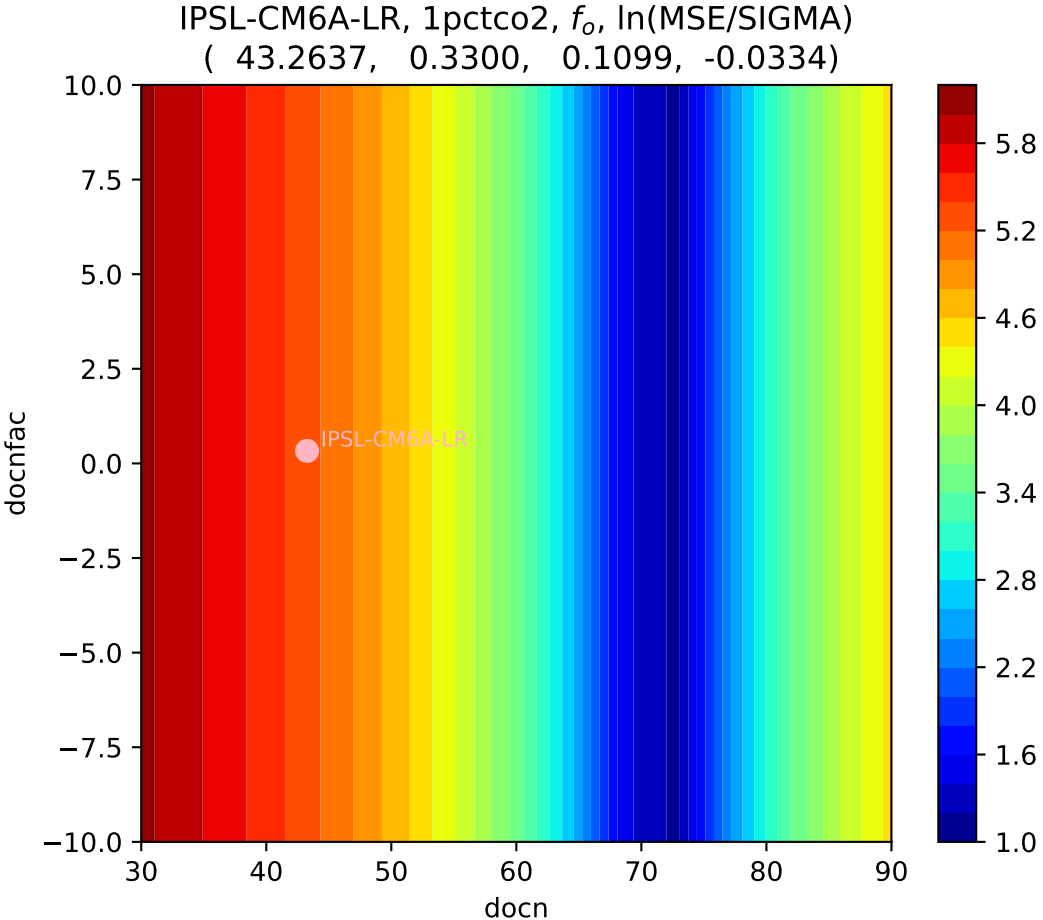

IPSL-CM6A-LR, 1pctco2, f_o
ESM-Fit
f_o, ESM - FIT
Year

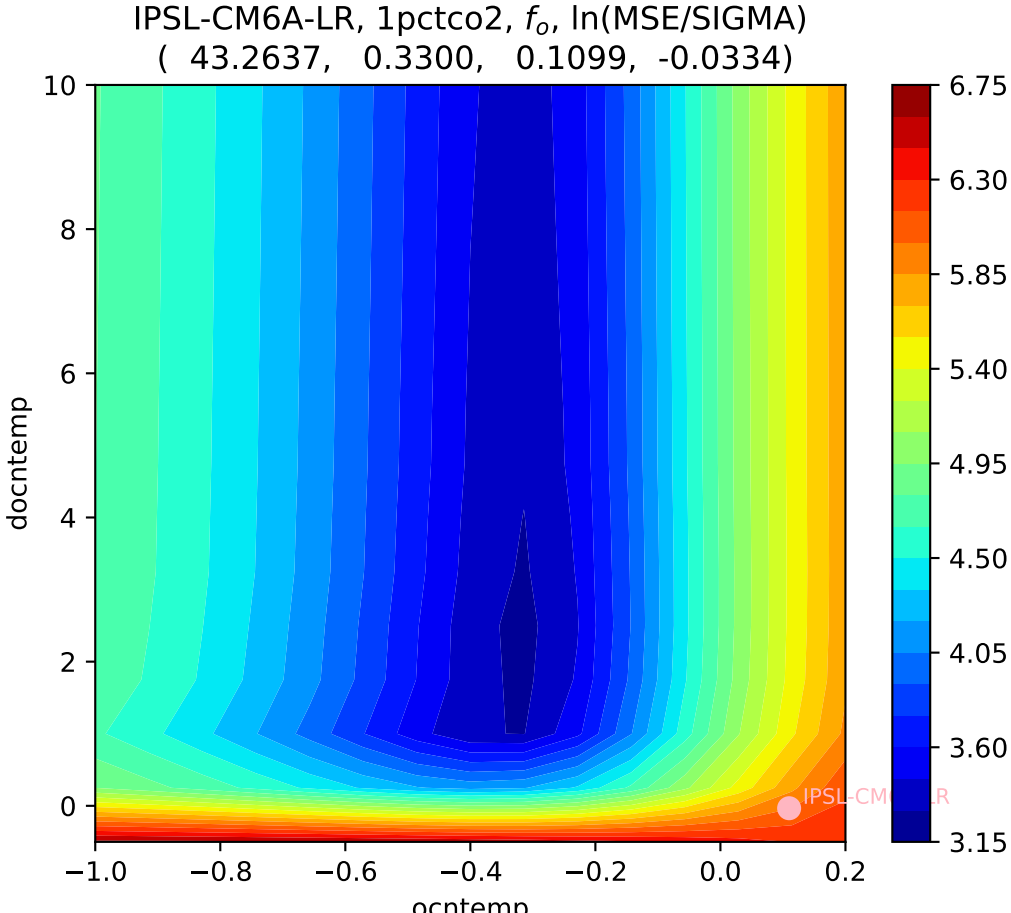

IPSL-CM6A-LR, 1pctco2, f_o
ESM
Fit
f_o
ΔT


IPSL-CM6A-LR, 1pctco2, f_o
ESM-Fit
f_o, ESM - FIT
ΔT


IPSL-CM6A-LR, 1pctco2, f_o
ESM
Fit
f_o
c_atm


IPSL-CM6A-LR, 1pctco2, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


IPSL-CM6A-LR, 1pctco2, f_o, ln(MSE/SIGMA)
(43.2637, 0.3300, 0.1099, -0.0334)
IPSL-CM6A-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
5.8
5.2
4.6
4.0
3.4
2.8
2.2
1.6
1.0


IPSL-CM6A-LR, 1pctco2, f_o, ln(MSE/SIGMA)
(43.2637, 0.3300, 0.1099, -0.0334)
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
6.75
6.30
5.85
5.40
4.95
4.50
4.05
3.60
3.15