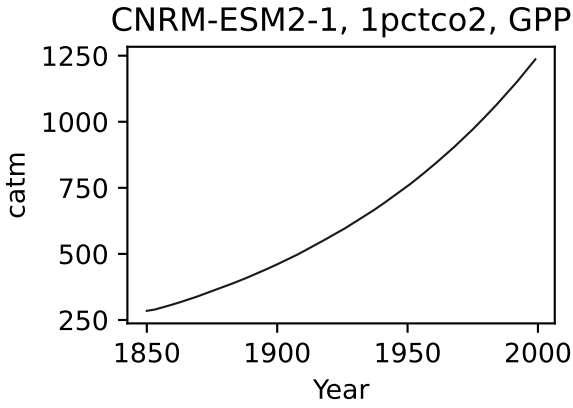
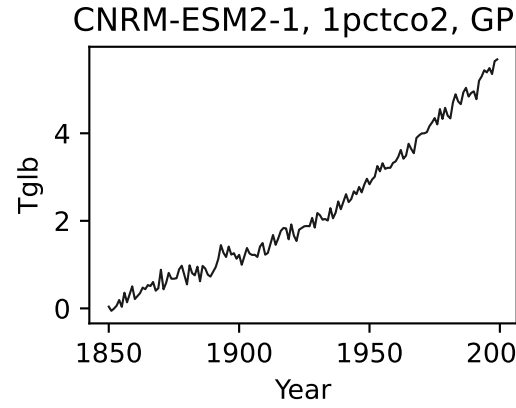
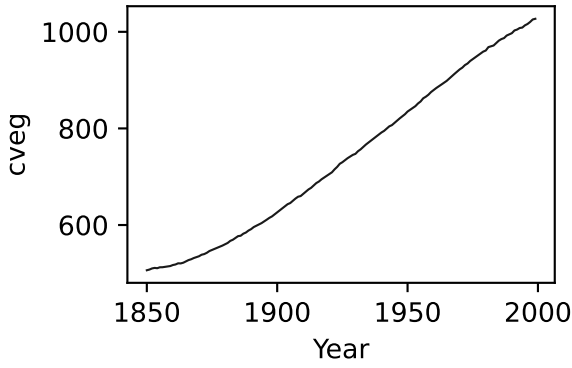
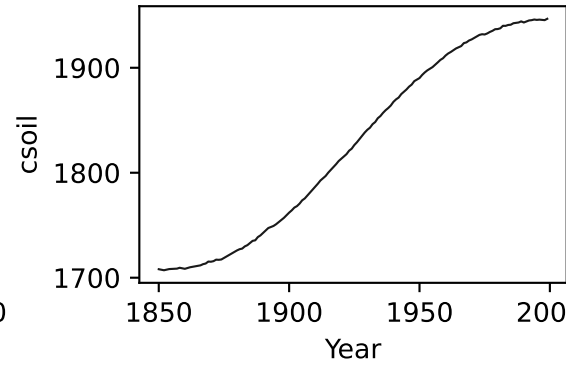
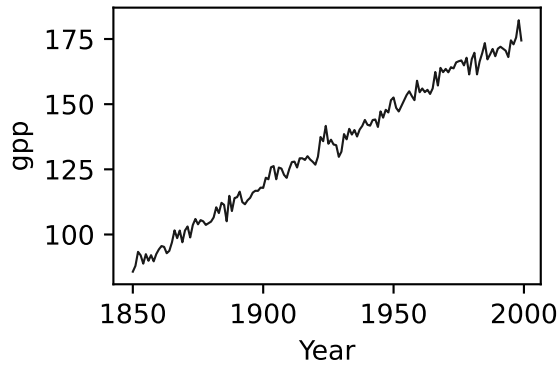
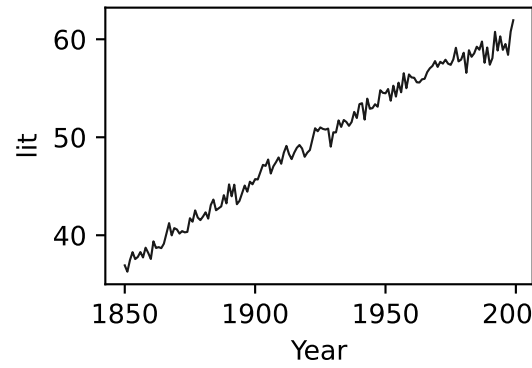

CNRM-ESM2-1, 1pctco2, GPP
catm
Year

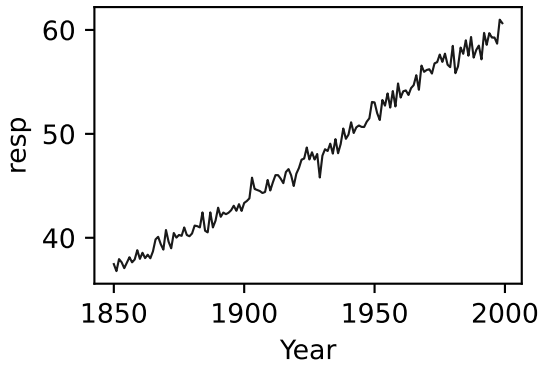

CNRM-ESM2-1, 1pctco2, GPP
Tglb
Year

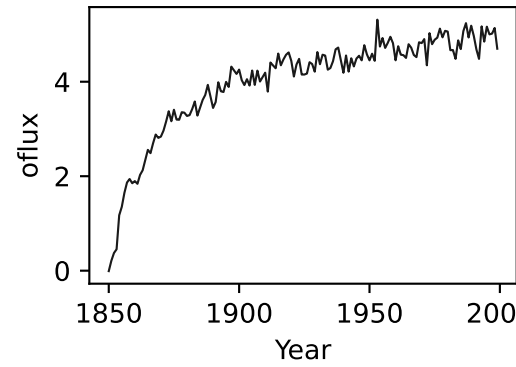

cveg
Year

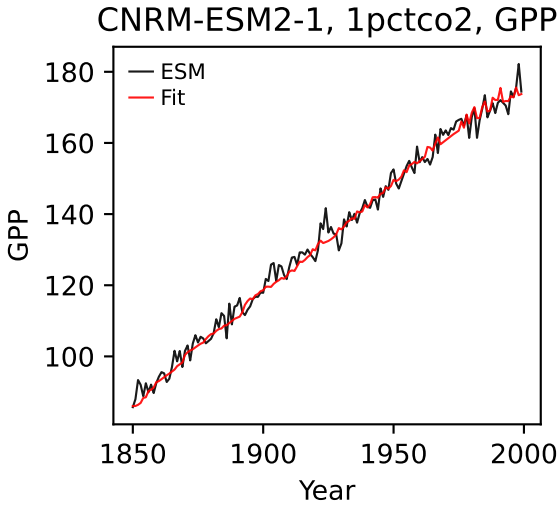

csoil
Year

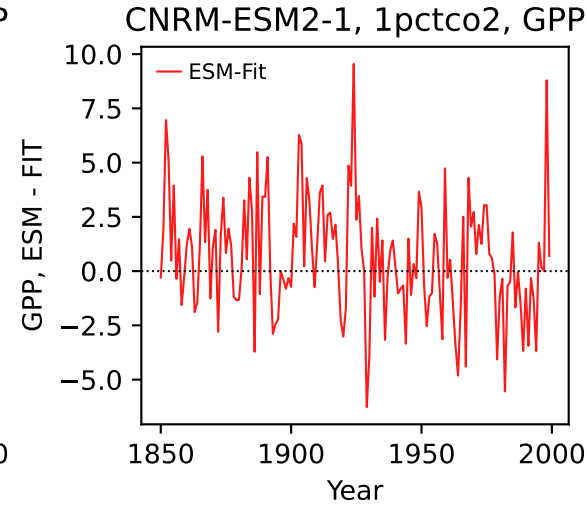

gpp
Year

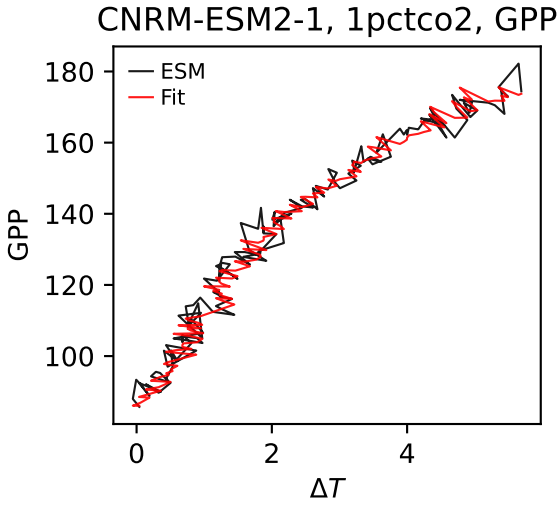

lit
Year

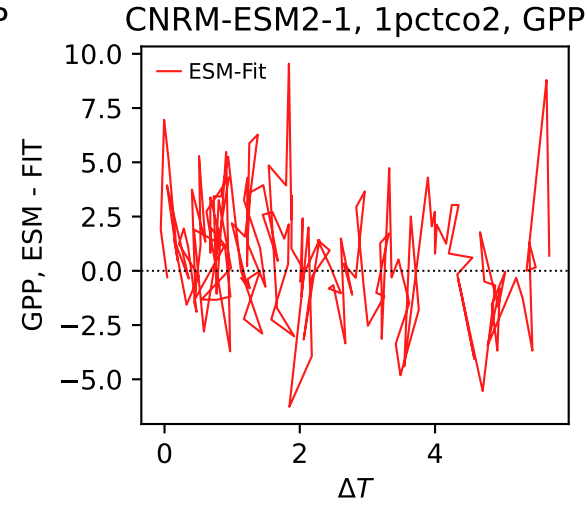

resp
Year

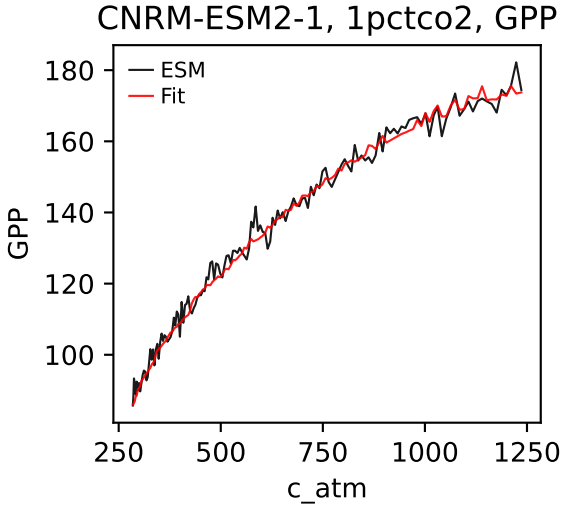

oflux
Year

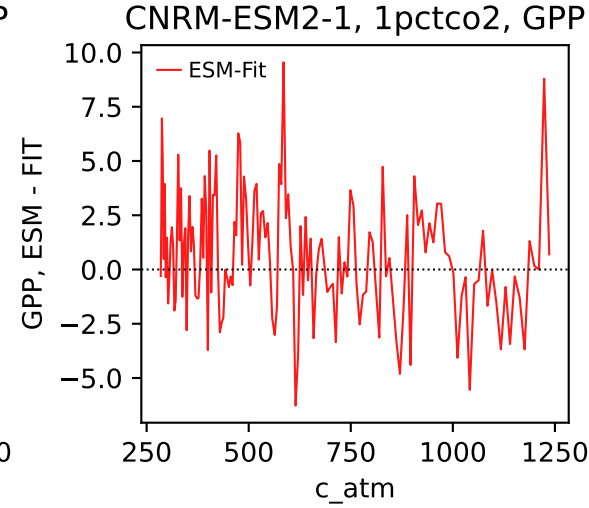

CNRM-ESM2-1, 1pctco2, GPP
ESM
Fit
GPP
Year

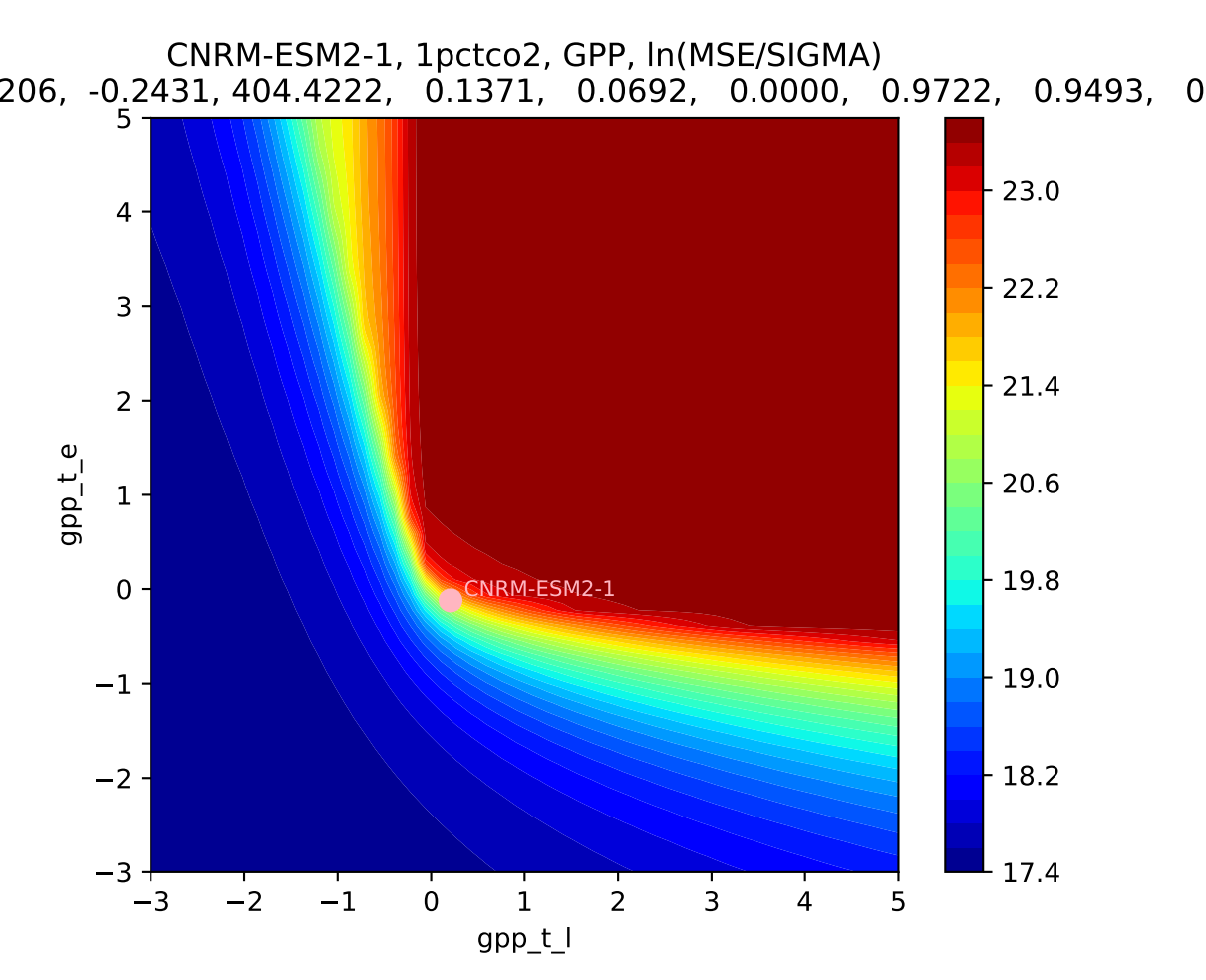

CNRM-ESM2-1, 1pctco2, GPP
ESM-Fit
GPP, ESM - FIT
Year

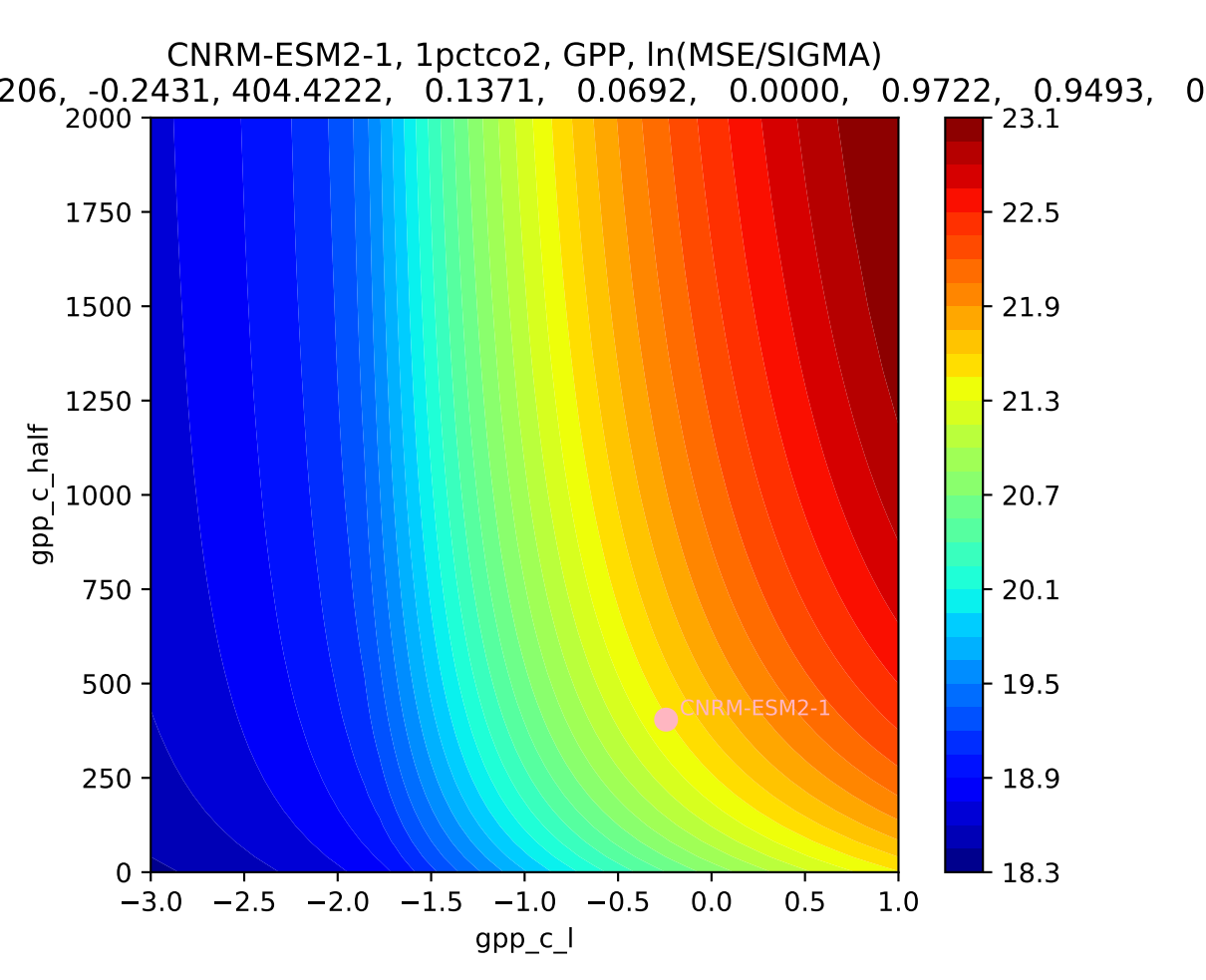

CNRM-ESM2-1, 1pctco2, GPP
ESM
Fit
GPP
ΔT

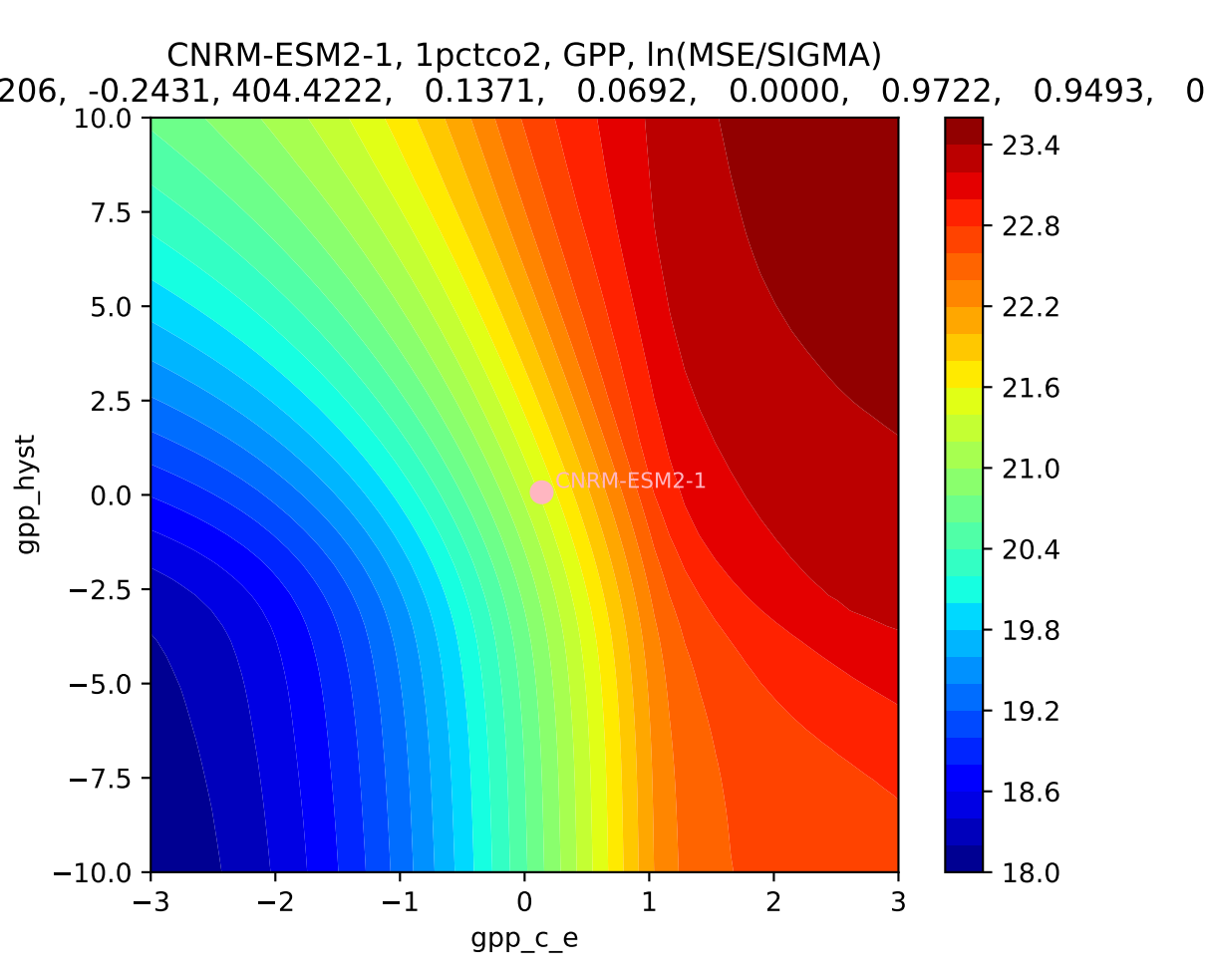

CNRM-ESM2-1, 1pctco2, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

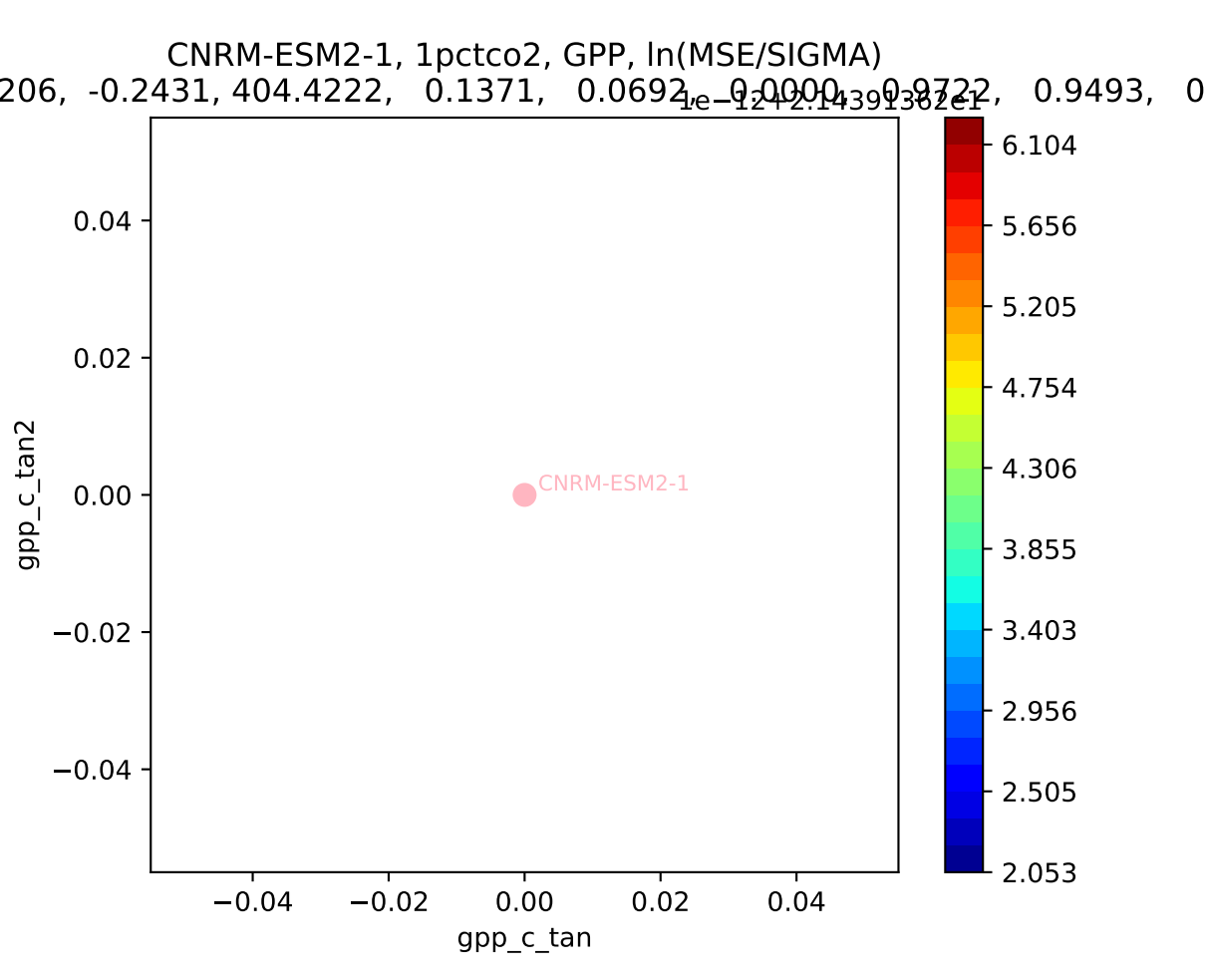

CNRM-ESM2-1, 1pctco2, GPP
ESM
Fit
GPP
c_atm

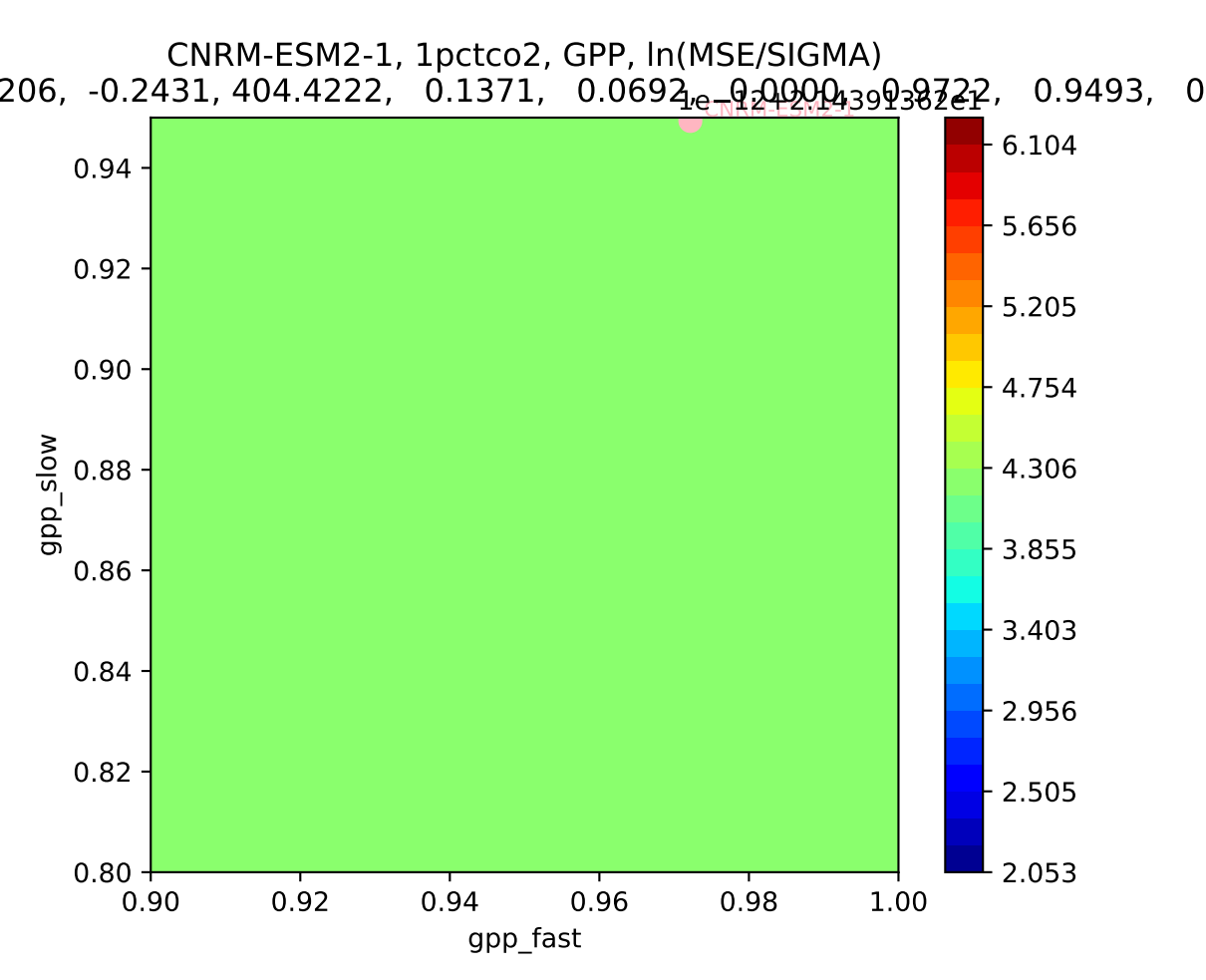

CNRM-ESM2-1, 1pctco2, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

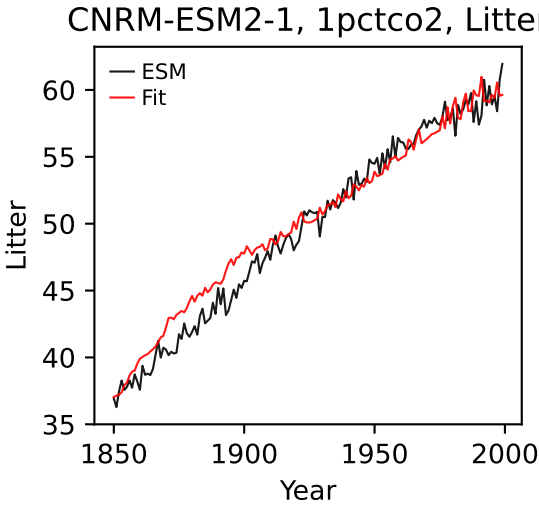

CNRM-ESM2-1, 1pctco2, GPP, ln(MSE/SIGMA)
206, -0.2431, 404.4222, 0.1371, 0.0692, 0.0000, 0.9722, 0.9493, 0
CNRM-ESM2-1
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
23.0
22.2
21.4
20.6
19.8
19.0
18.2
17.4

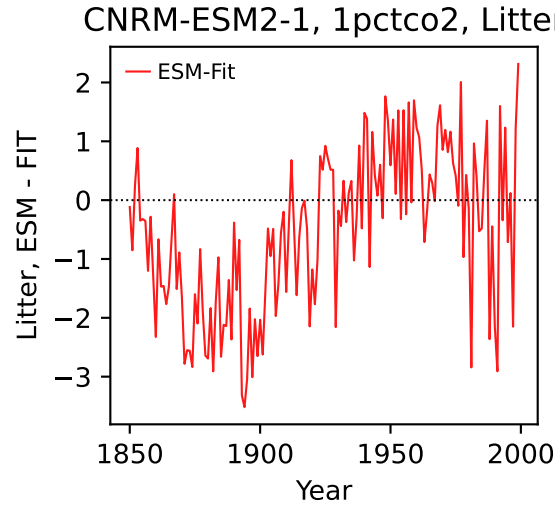

CNRM-ESM2-1, 1pctco2, GPP, ln(MSE/SIGMA)
206, -0.2431, 404.4222, 0.1371, 0.0692, 0.0000, 0.9722, 0.9493, 0
gpp_c_half
gpp_c_l
CNRM-ESM2-1
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
23.1
22.5
21.9
21.3
20.7
20.1
19.5
18.9
18.3

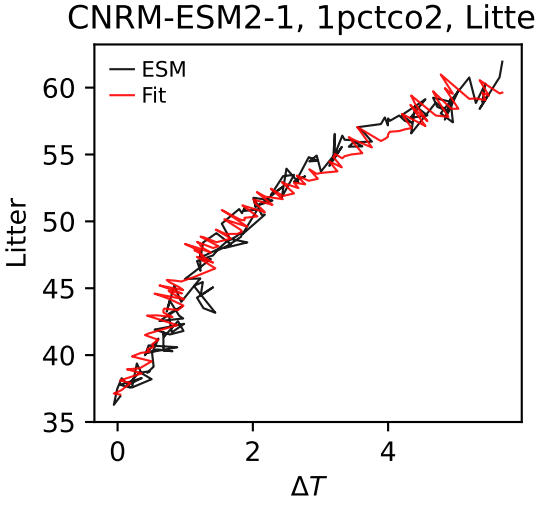

CNRM-ESM2-1, 1pctco2, GPP, ln(MSE/SIGMA)
206, -0.2431, 404.4222, 0.1371, 0.0692, 0.0000, 0.9722, 0.9493, 0
CNRM-ESM2-1
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
23.4
22.8
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0

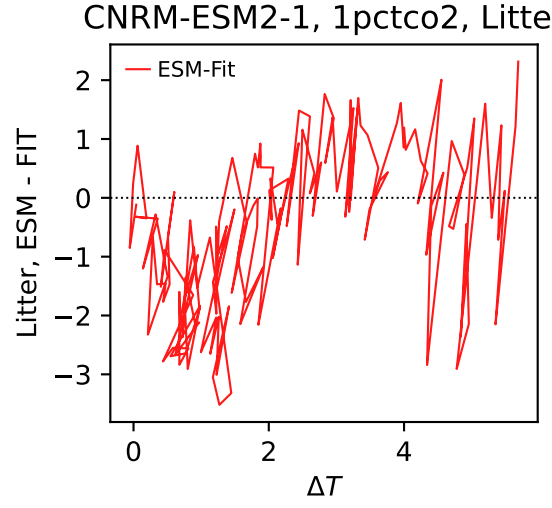

CNRM-ESM2-1, 1pctco2, GPP, ln(MSE/SIGMA)
206, -0.2431, 404.4222, 0.1371, 0.0692, 0.0000, 0.9722, 0.9493, 0
1e−12+2.143913621e1
CNRM-ESM2-1
gpp_c_tan2
gpp_c_tan
0.04
0.02
0.00
−0.02
−0.04
6.104
5.656
5.205
4.754
4.306
3.855
3.403
2.956
2.505
2.053

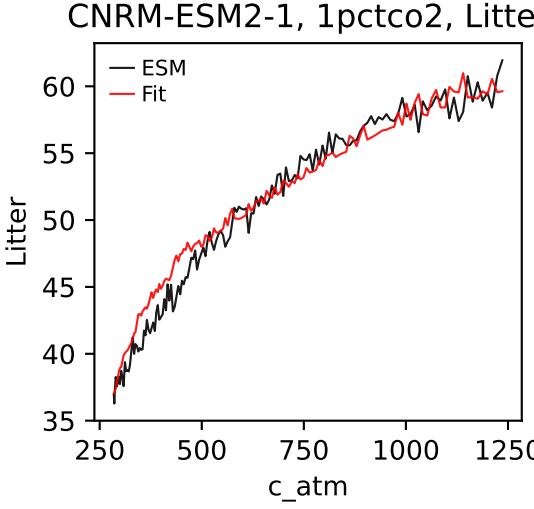

CNRM-ESM2-1, 1pctco2, GPP, ln(MSE/SIGMA)
206, -0.2431, 404.4222, 0.1371, 0.0692, 0.0000, 0.9722, 0.9493, 0
1e−12+2.143913621e1
CNRM-ESM2-1
6.104
5.656
5.205
4.754
4.306
3.855
3.403
2.956
2.505
2.053
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
gpp_slow
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast

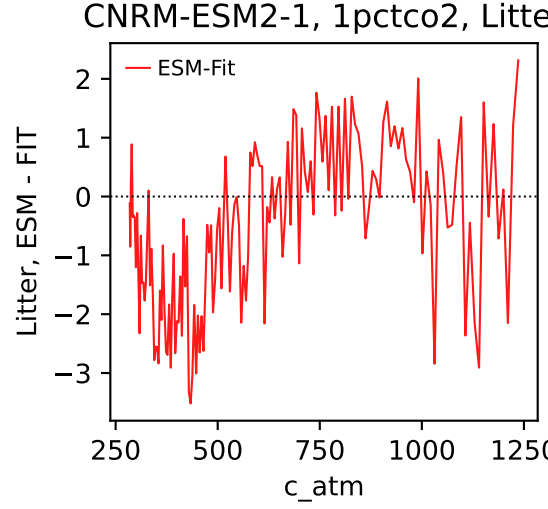

CNRM-ESM2-1, 1pctco2, Litter
ESM
Fit
Litter
Year

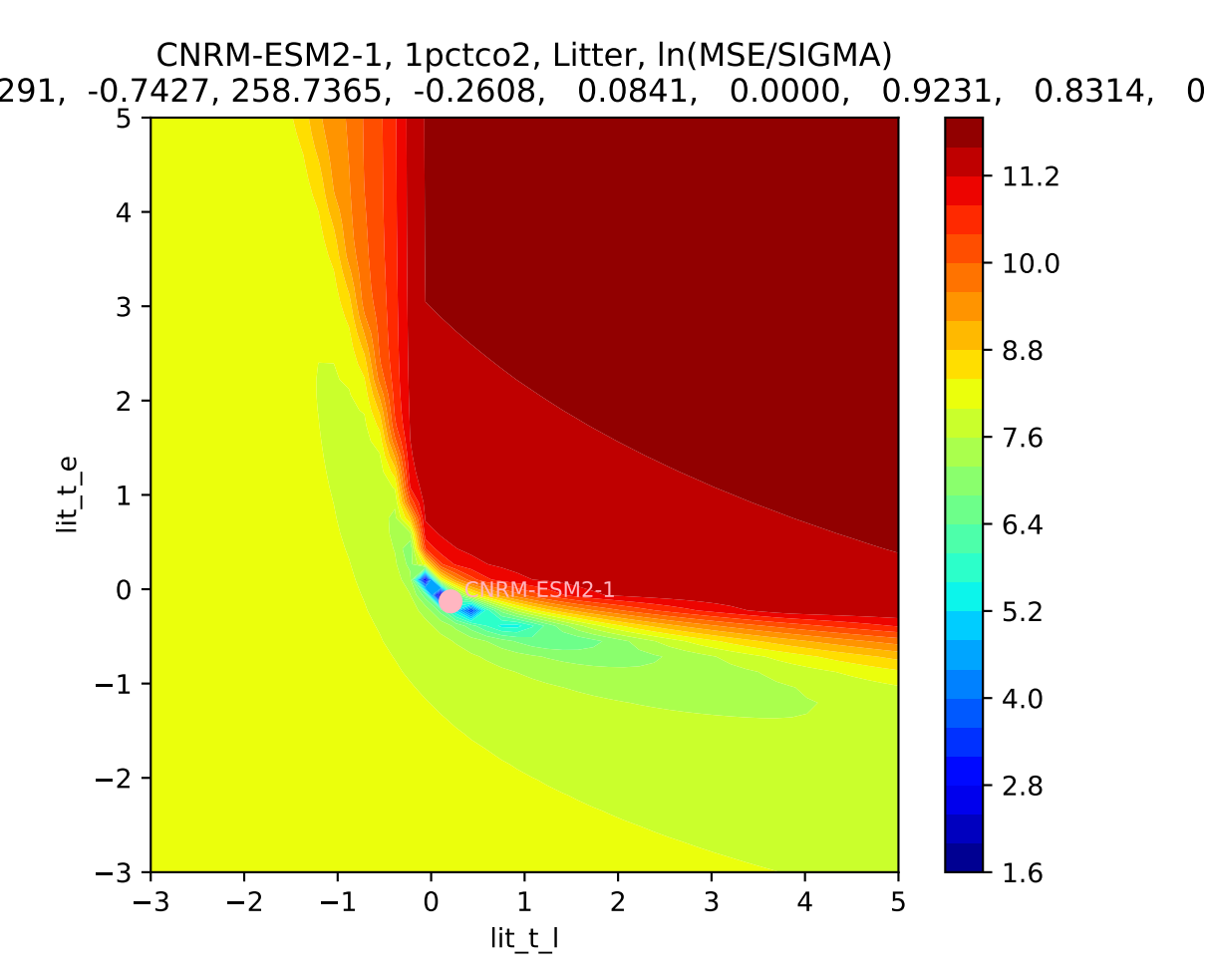

CNRM-ESM2-1, 1pctco2, Litter
ESM-Fit
Litter, ESM - FIT
Year

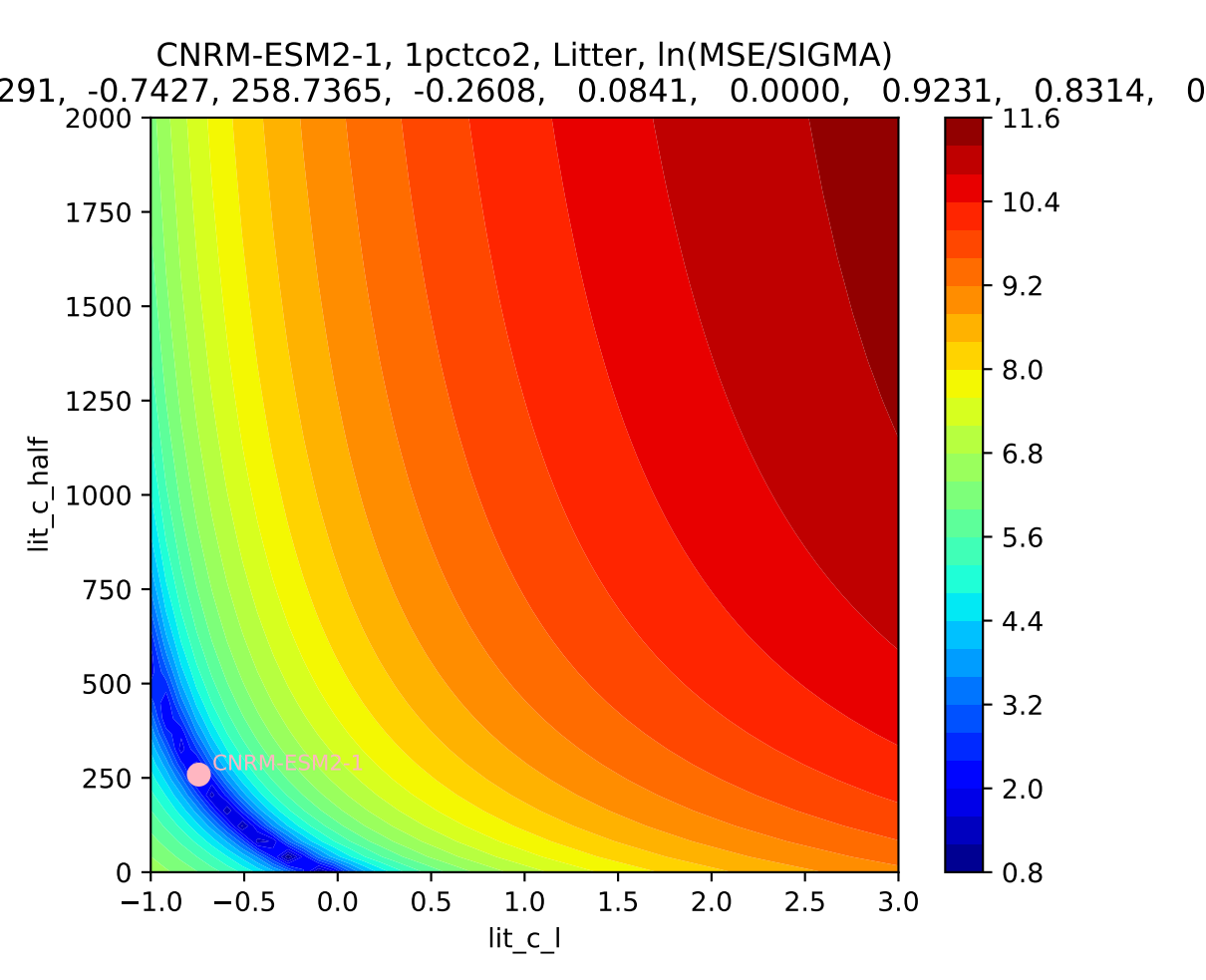

CNRM-ESM2-1, 1pctco2, Litter
ESM
Fit
Litter
ΔT

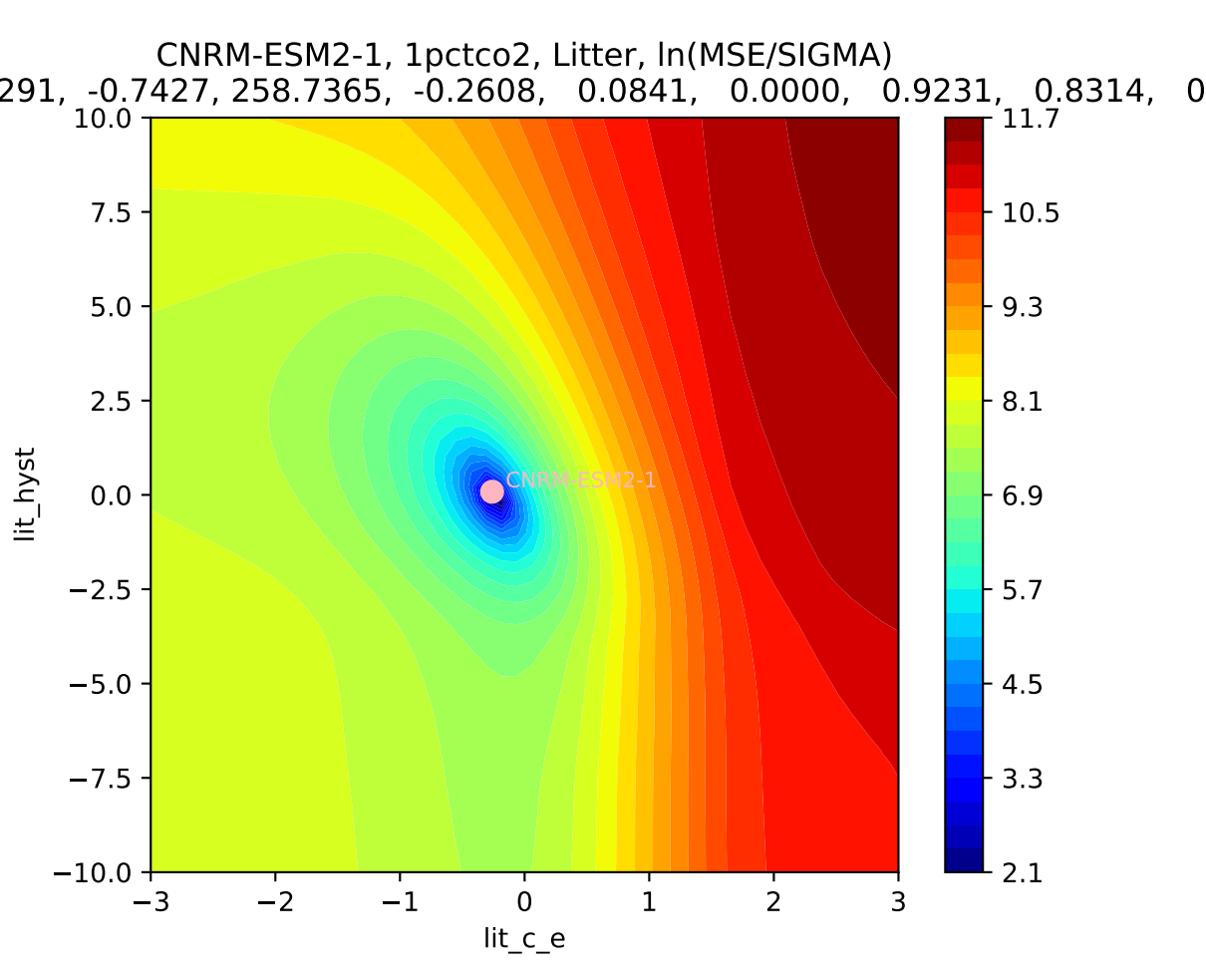

CNRM-ESM2-1, 1pctco2, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

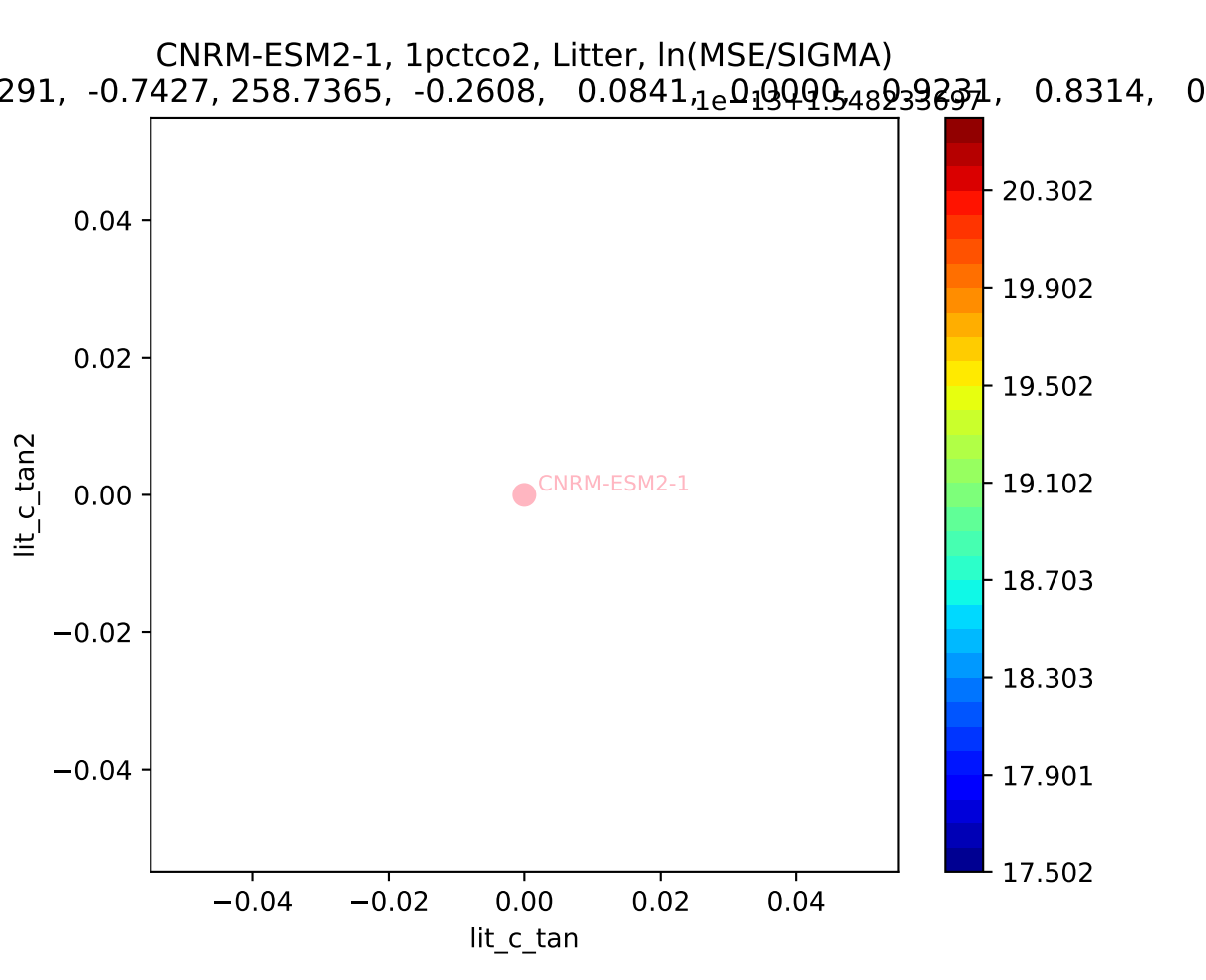

CNRM-ESM2-1, 1pctco2, Litter
ESM
Fit
Litter
c_atm

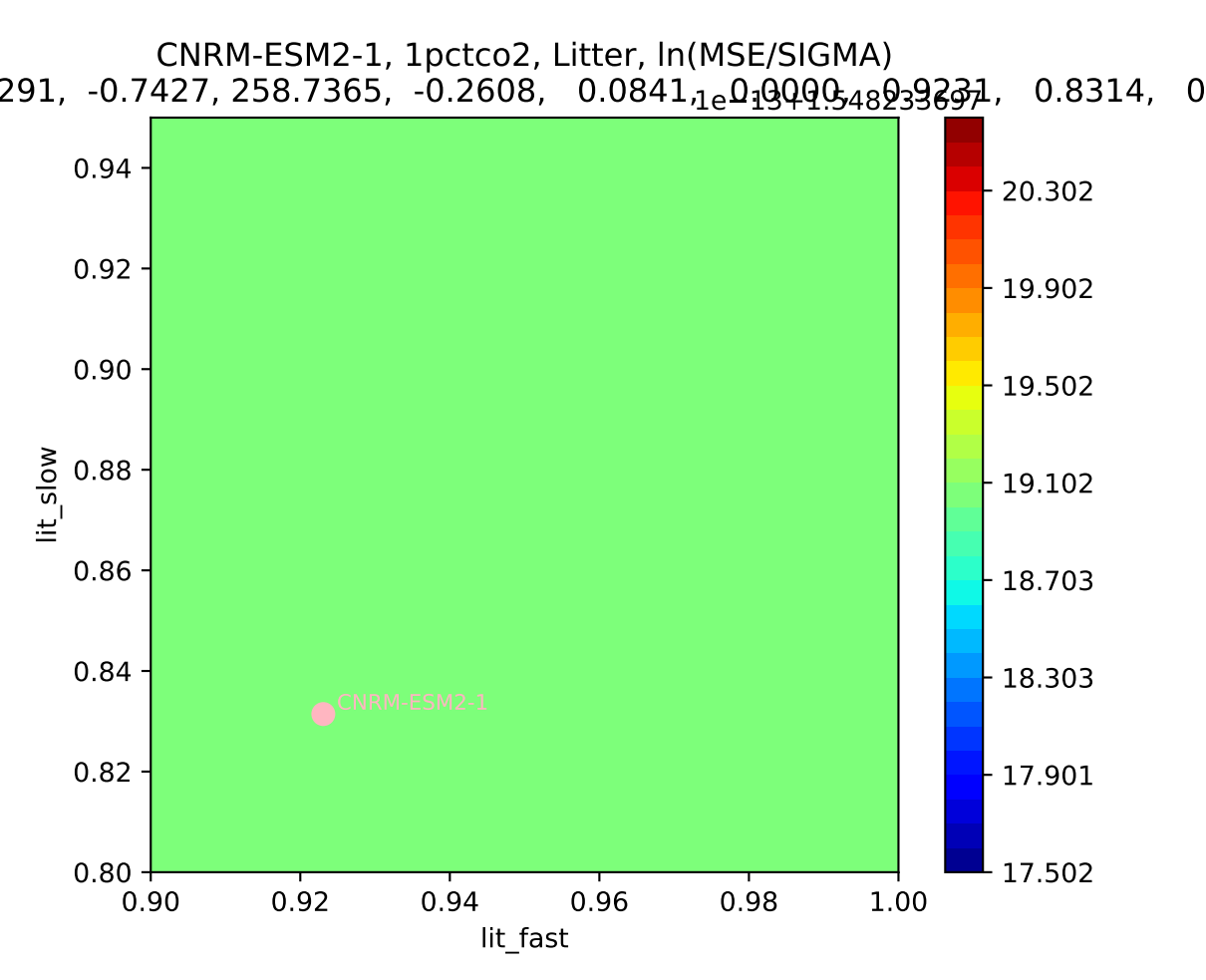

CNRM-ESM2-1, 1pctco2, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

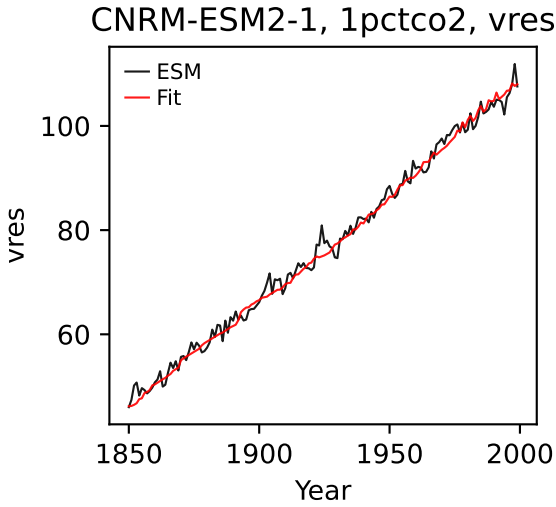

CNRM-ESM2-1, 1pctco2, Litter, ln(MSE/SIGMA)
291, -0.7427, 258.7365, -0.2608, 0.0841, 0.0000, 0.9231, 0.8314, 0
CNRM-ESM2-1
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
11.2
10.0
8.8
7.6
6.4
5.2
4.0
2.8
1.6

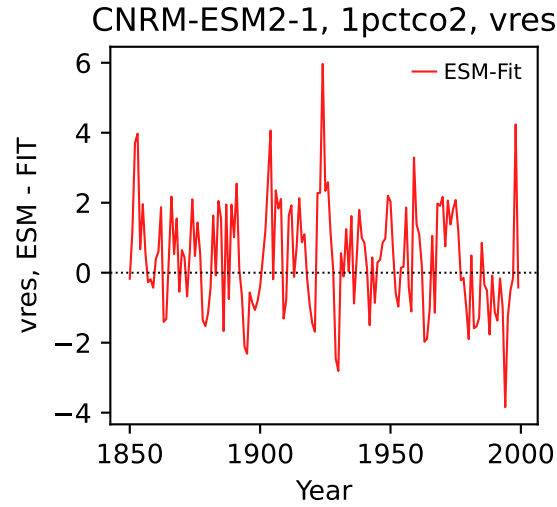

CNRM-ESM2-1, 1pctco2, Litter, ln(MSE/SIGMA)
291, -0.7427, 258.7365, -0.2608, 0.0841, 0.0000, 0.9231, 0.8314, 0
lit_c_half
lit_c_l
CNRM-ESM2-1
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
11.6
10.4
9.2
8.0
6.8
5.6
4.4
3.2
2.0
0.8

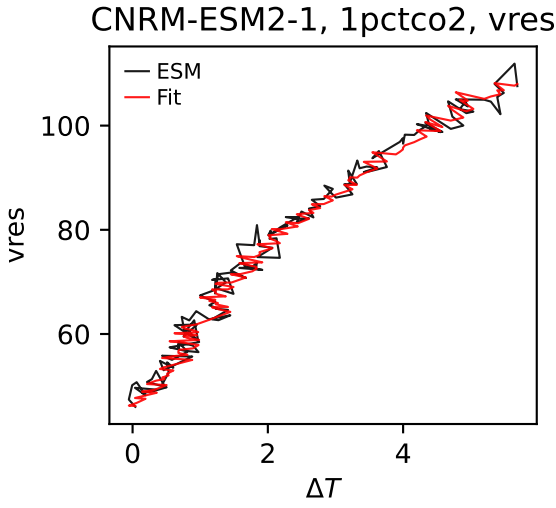

CNRM-ESM2-1, 1pctco2, Litter, ln(MSE/SIGMA)
291, -0.7427, 258.7365, -0.2608, 0.0841, 0.0000, 0.9231, 0.8314, 0
CNRM-ESM2-1
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
11.7
10.5
9.3
8.1
6.9
5.7
4.5
3.3
2.1

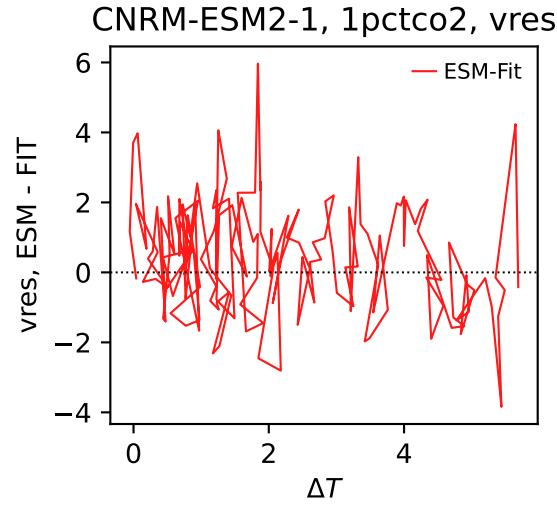

CNRM-ESM2-1, 1pctco2, Litter, ln(MSE/SIGMA)
291, -0.7427, 258.7365, -0.2608, 0.0841, 0.0000, 0.9231, 0.8314, 0
1e−13+1.548233697
CNRM-ESM2-1
0.04
0.02
0.00
−0.02
−0.04
lit_c_tan2
−0.04
−0.02
0.00
0.02
0.04
lit_c_tan
20.302
19.902
19.502
19.102
18.703
18.303
17.901
17.502

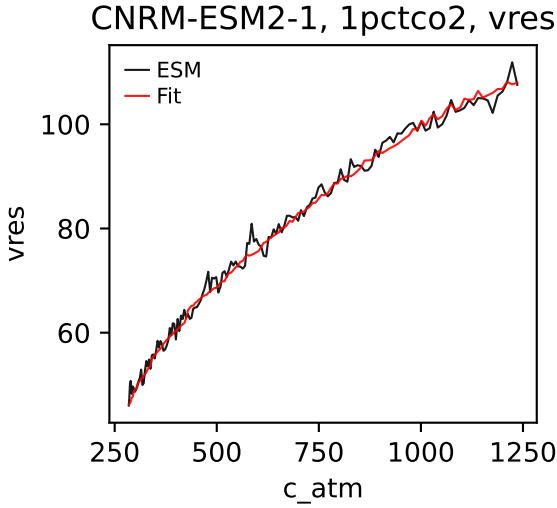

CNRM-ESM2-1, 1pctco2, Litter, ln(MSE/SIGMA)
291, -0.7427, 258.7365, -0.2608, 0.0841, 0.0000, 0.9231, 0.8314, 0
1e-13+1.548233697
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
lit_slow
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
CNRM-ESM2-1
20.302
19.902
19.502
19.102
18.703
18.303
17.901
17.502

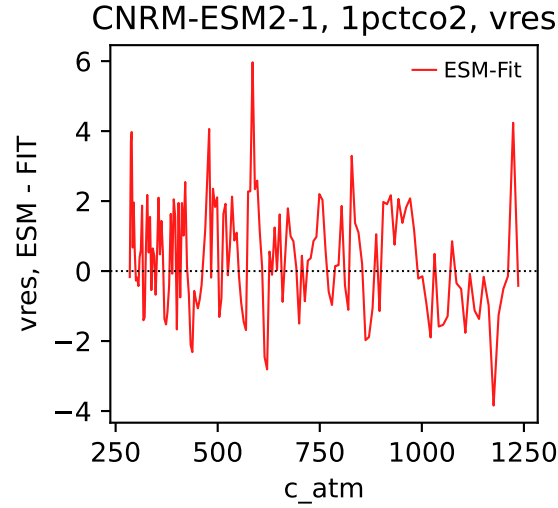

CNRM-ESM2-1, 1pctco2, vres
ESM
Fit
vres
Year

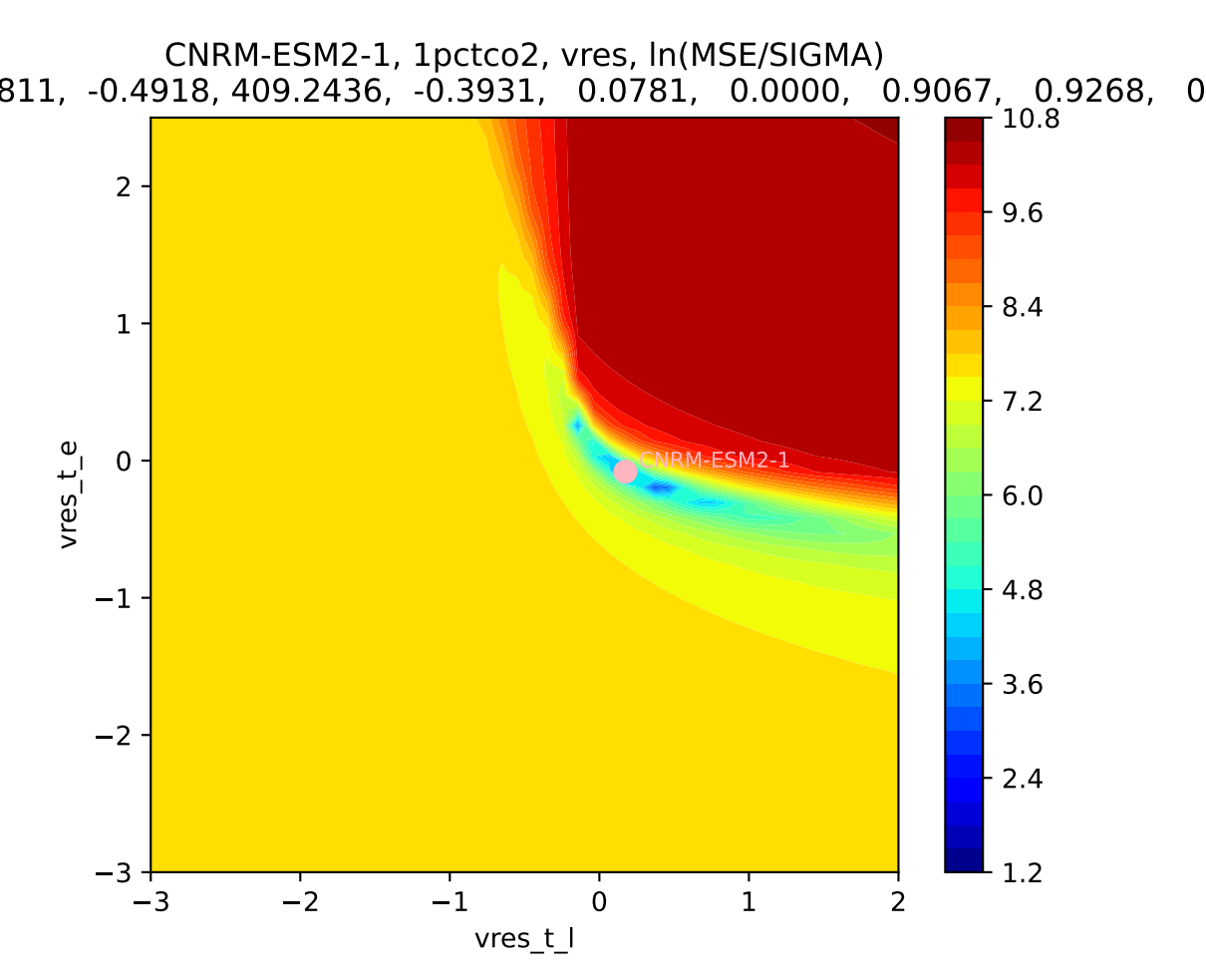

CNRM-ESM2-1, 1pctco2, vres
ESM-Fit
vres, ESM - FIT
Year

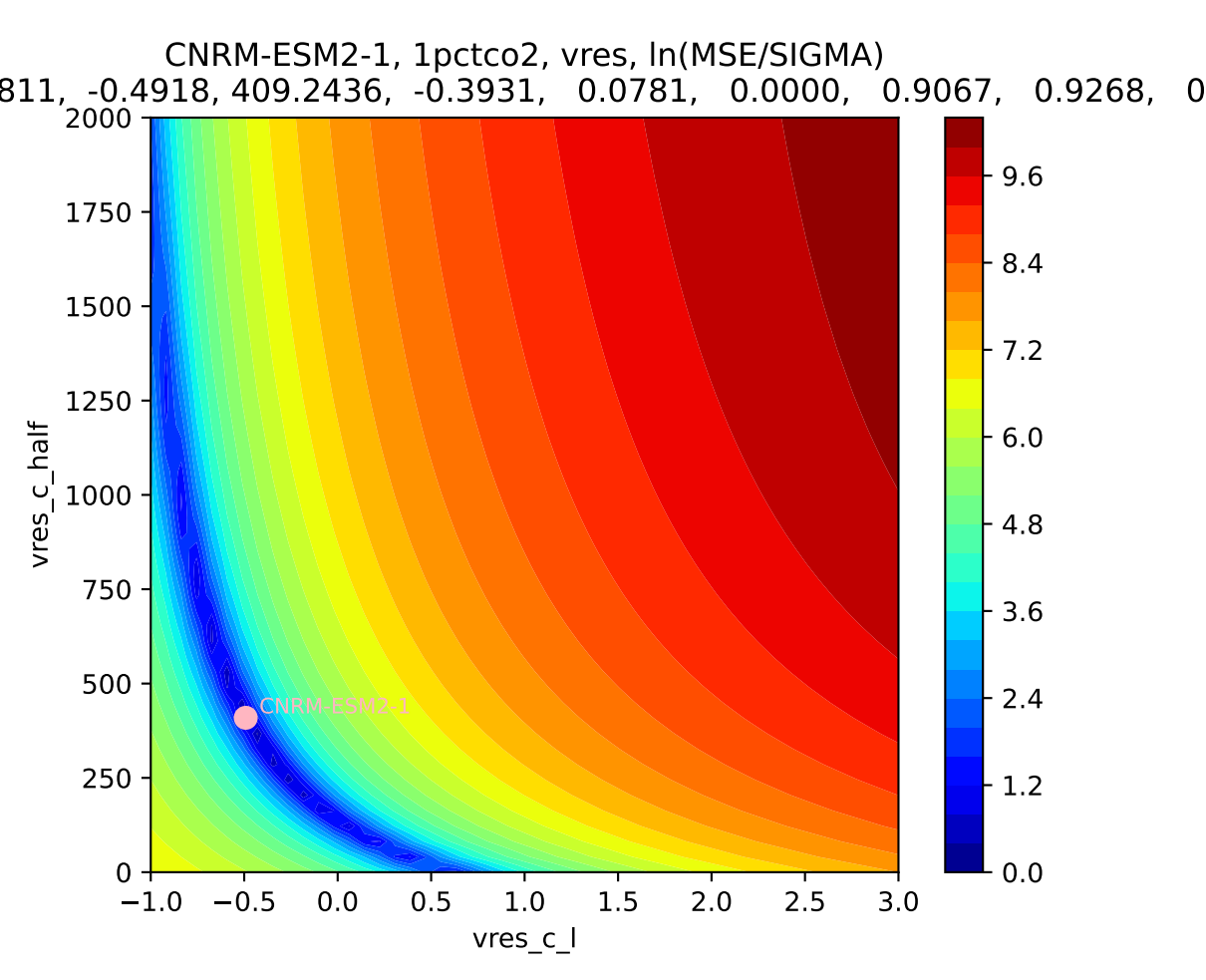

CNRM-ESM2-1, 1pctco2, vres
ESM
Fit
vres
ΔT

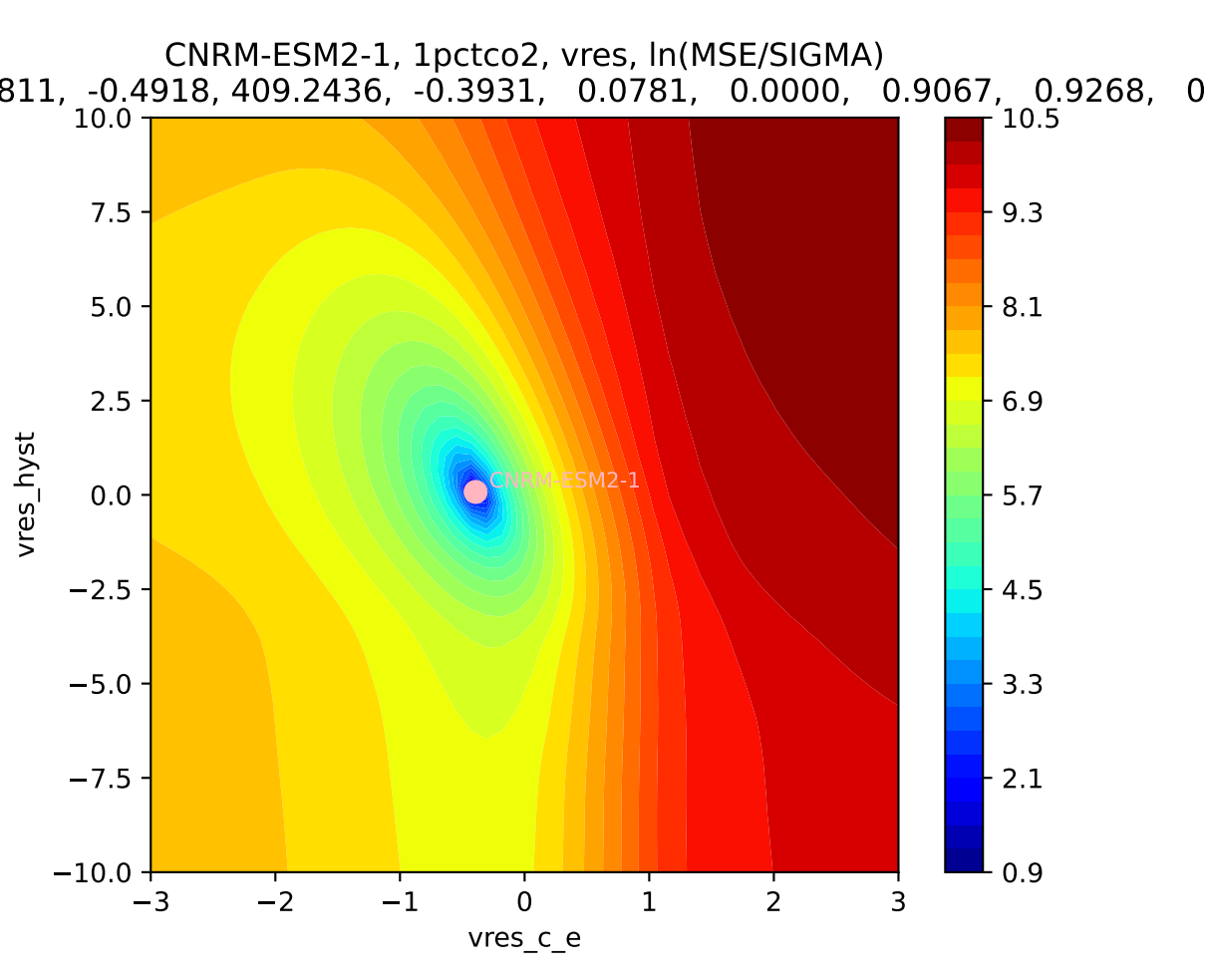

CNRM-ESM2-1, 1pctco2, vres
ESM-Fit
vres, ESM - FIT
ΔT

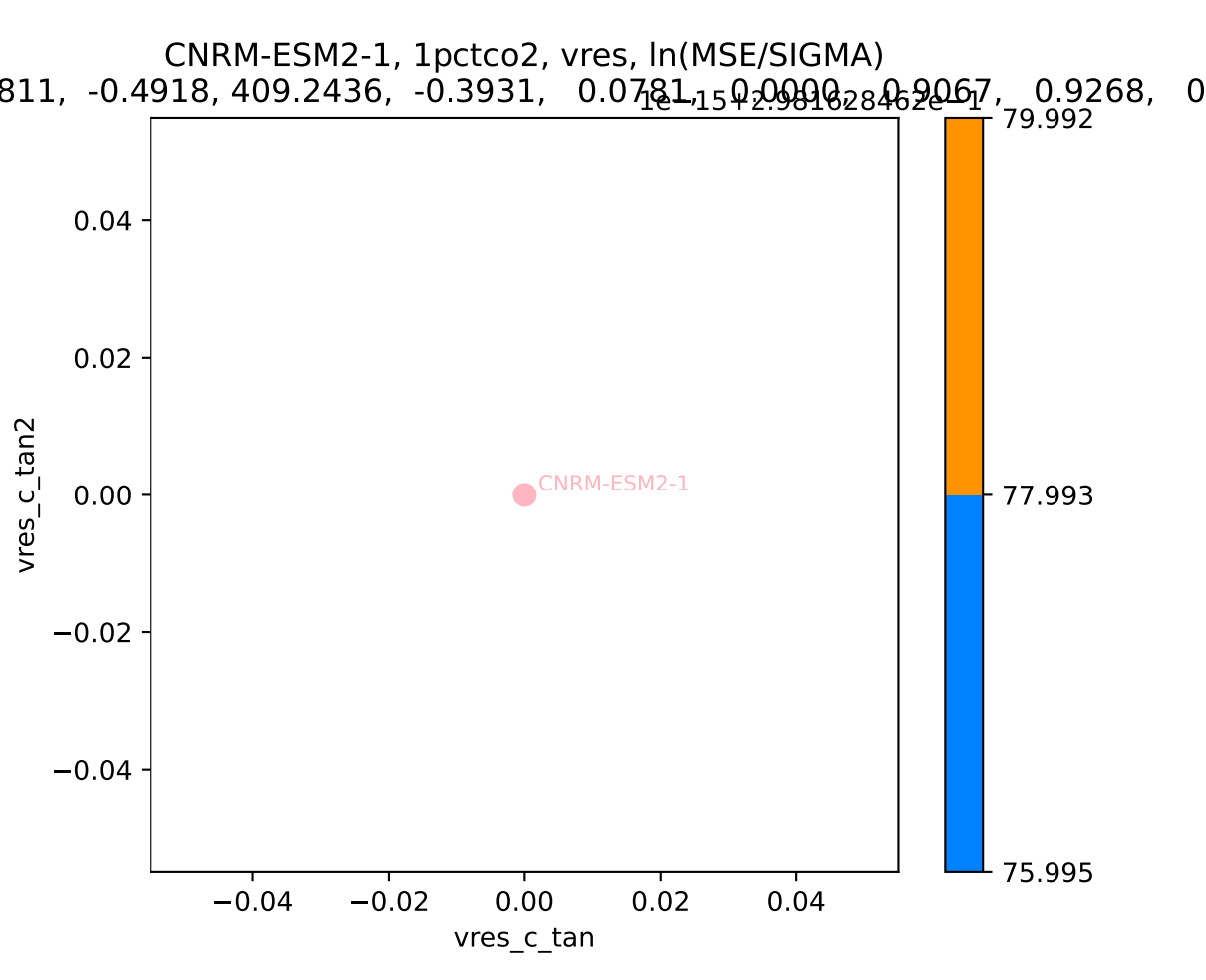

CNRM-ESM2-1, 1pctco2, vres
ESM
Fit
vres
c_atm

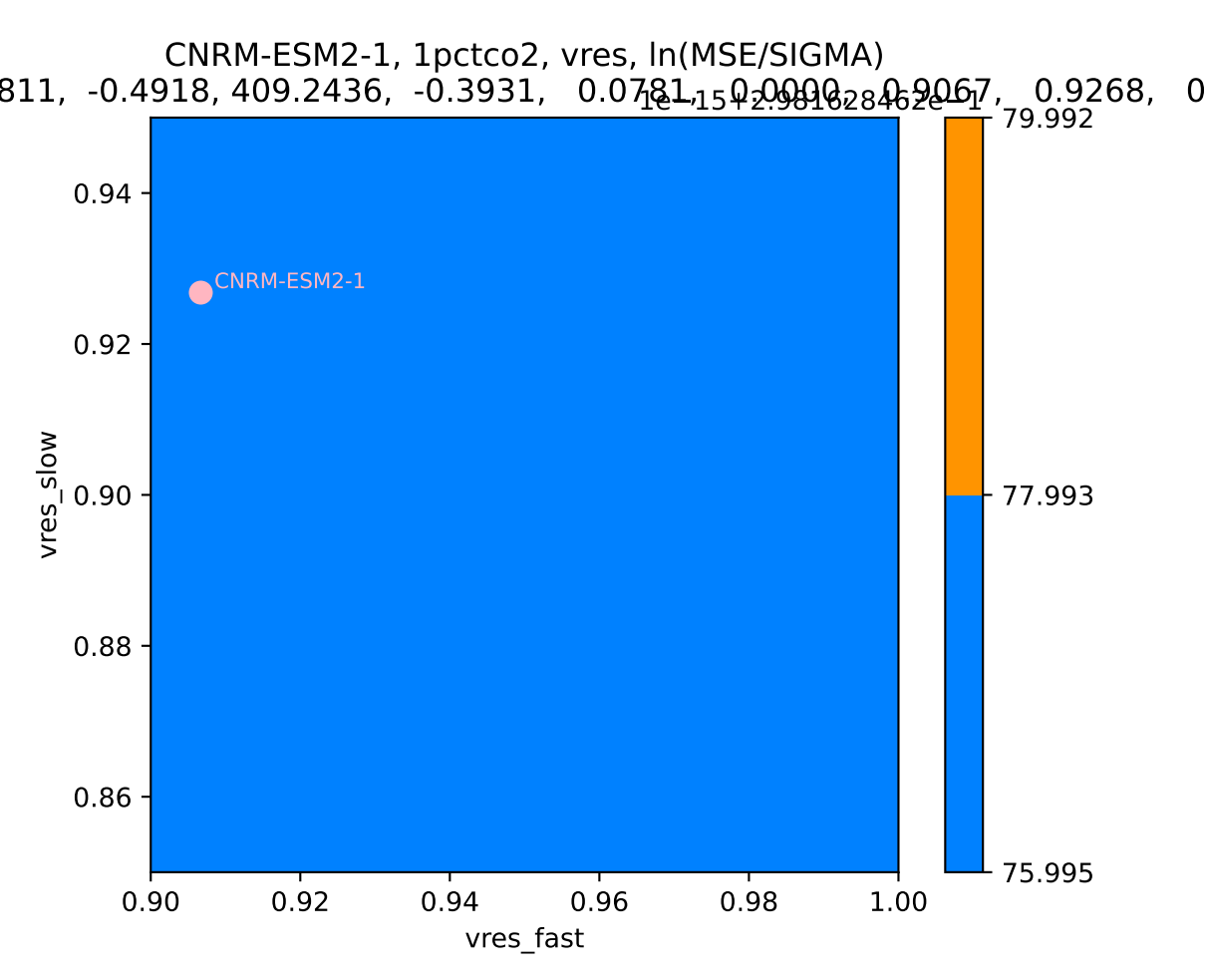

CNRM-ESM2-1, 1pctco2, vres
ESM-Fit
vres, ESM - FIT
c_atm

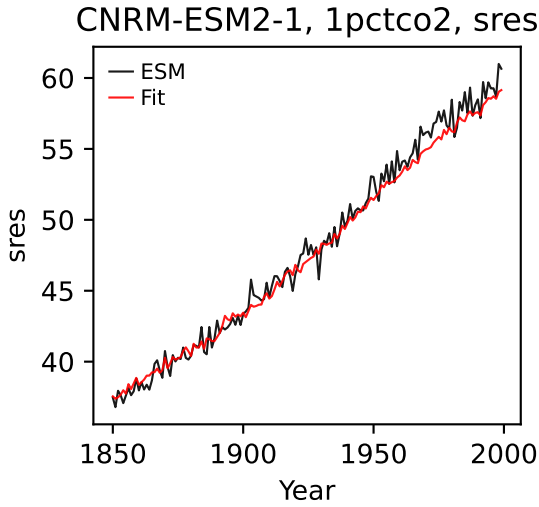

CNRM-ESM2-1, 1pctco2, vres, ln(MSE/SIGMA)
811, -0.4918, 409.2436, -0.3931, 0.0781, 0.0000, 0.9067, 0.9268, 0
CNRM-ESM2-1
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

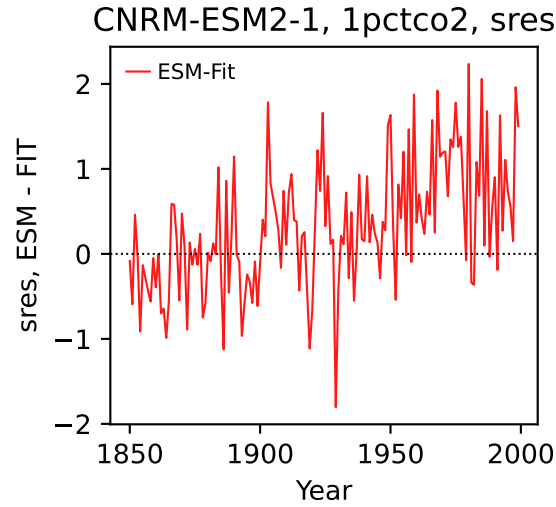

CNRM-ESM2-1, 1pctco2, vres, ln(MSE/SIGMA)
811, -0.4918, 409.2436, -0.3931, 0.0781, 0.0000, 0.9067, 0.9268, 0
vres_c_half
vres_c_l
CNRM-ESM2-1
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

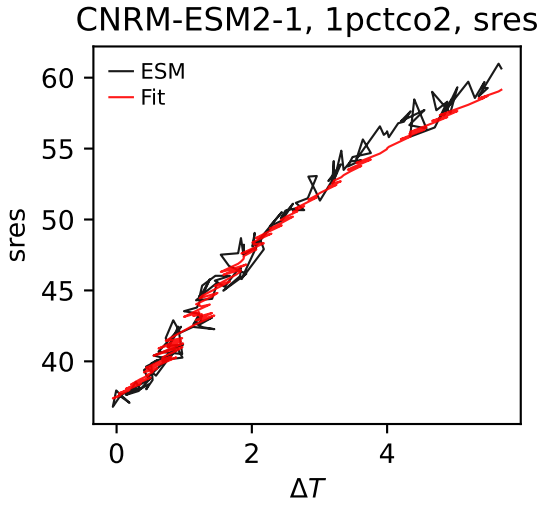

CNRM-ESM2-1, 1pctco2, vres, ln(MSE/SIGMA)
811, -0.4918, 409.2436, -0.3931, 0.0781, 0.0000, 0.9067, 0.9268, 0
CNRM-ESM2-1
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.5
9.3
8.1
6.9
5.7
4.5
3.3
2.1
0.9

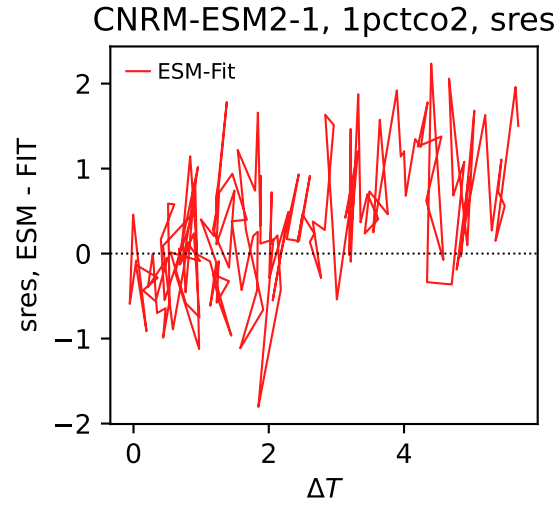

CNRM-ESM2-1, 1pctco2, vres, ln(MSE/SIGMA)
811, -0.4918, 409.2436, -0.3931, 0.0781, 0.0000, 0.9067, 0.9268, 0
1e−15+2.98162846e−1
79.992
77.993
75.995
CNRM-ESM2-1
0.04
0.02
0.00
−0.02
−0.04
vres_c_tan2
−0.04
−0.02
0.00
0.02
0.04
vres_c_tan

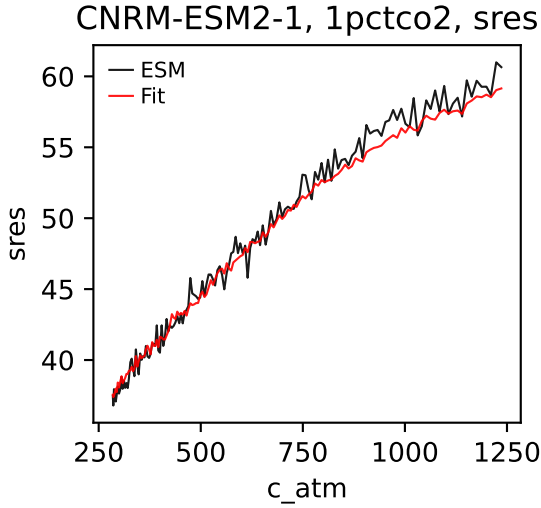

CNRM-ESM2-1, 1pctco2, vres, ln(MSE/SIGMA)
811, -0.4918, 409.2436, -0.3931, 0.0781, 0.0000, 0.9067, 0.9268, 0
1e−15+2.98162846 2e−1
79.992
77.993
75.995
CNRM-ESM2-1
0.94
0.92
0.90
0.88
0.86
vres_slow
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast

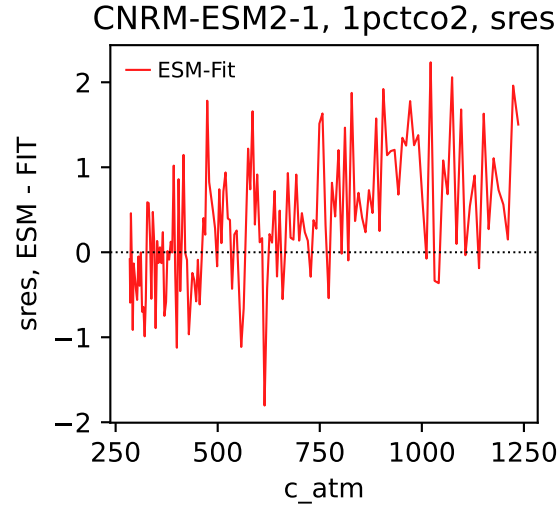

CNRM-ESM2-1, 1pctco2, sres
ESM
Fit
sres
Year

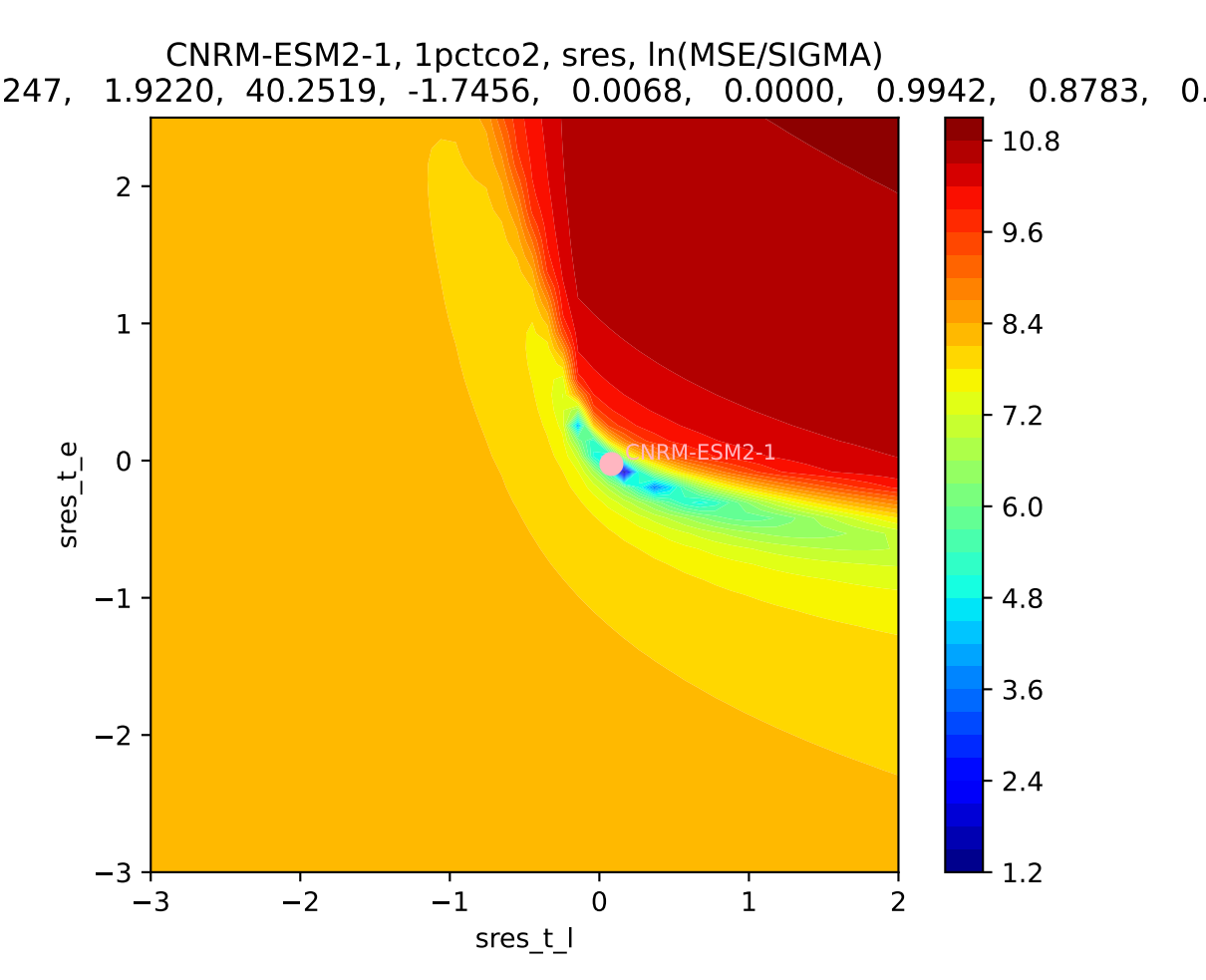

CNRM-ESM2-1, 1pctco2, sres
ESM-Fit
sres, ESM - FIT
Year

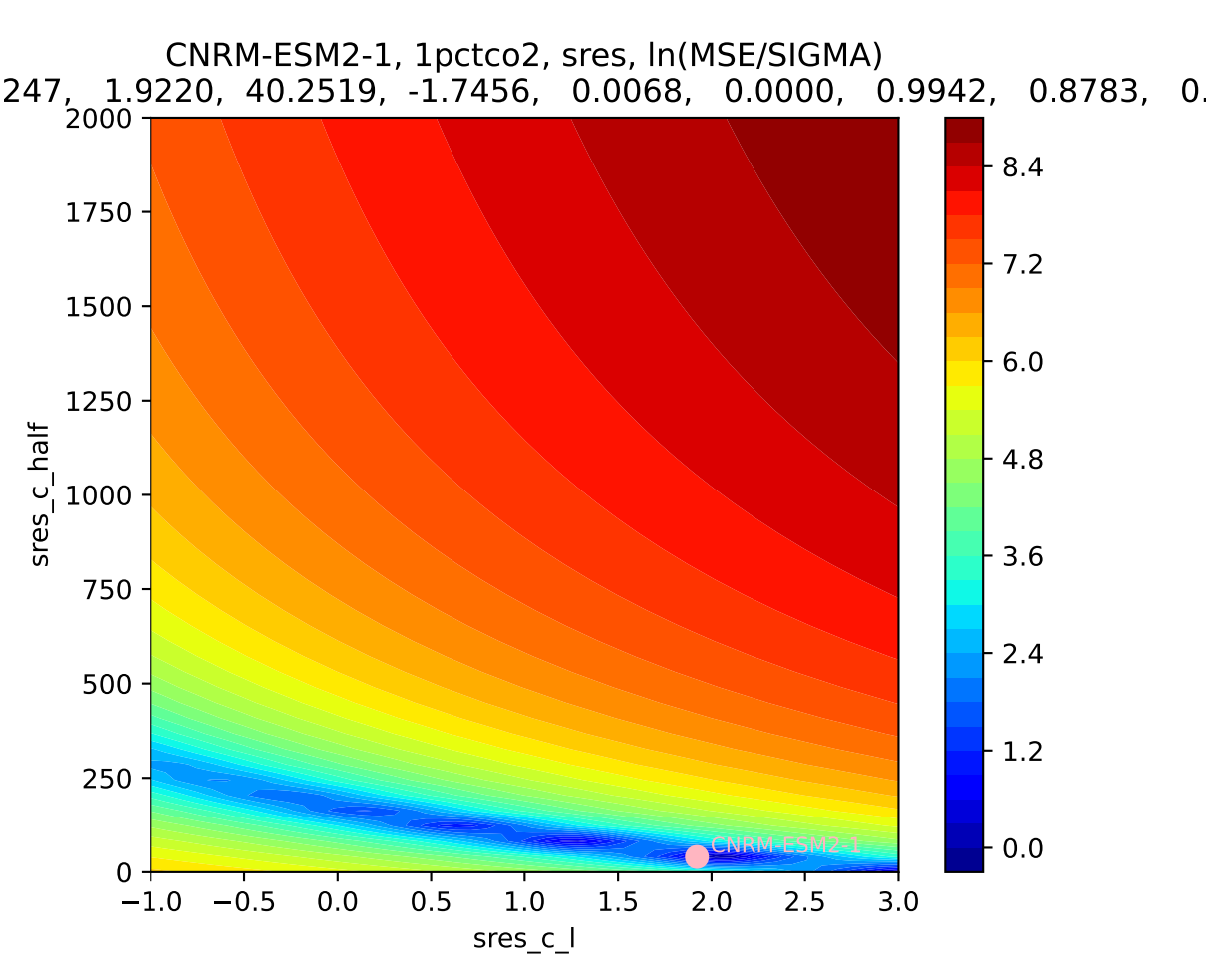

CNRM-ESM2-1, 1pctco2, sres
ESM
Fit
sres
ΔT

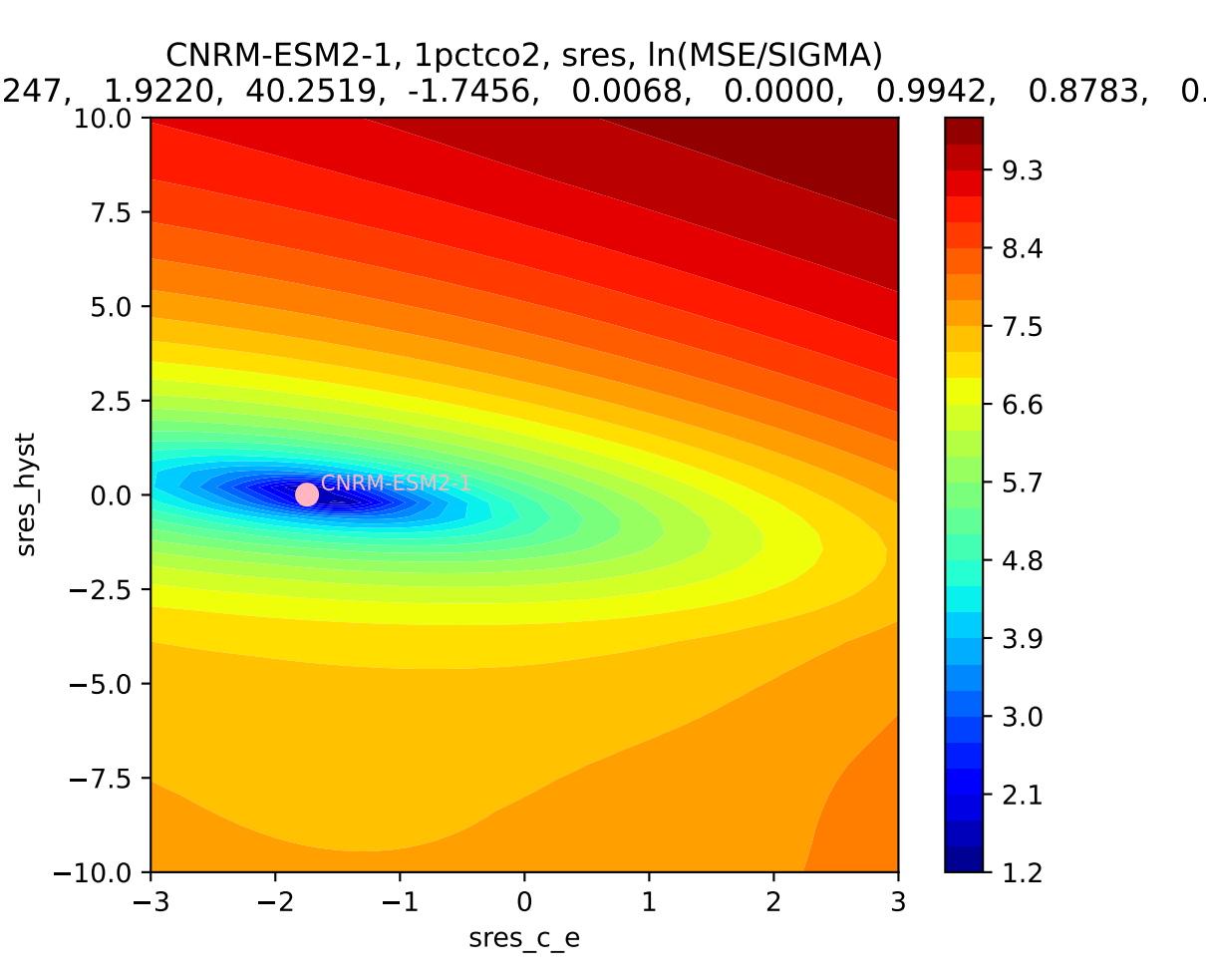

CNRM-ESM2-1, 1pctco2, sres
ESM-Fit
sres, ESM - FIT
ΔT

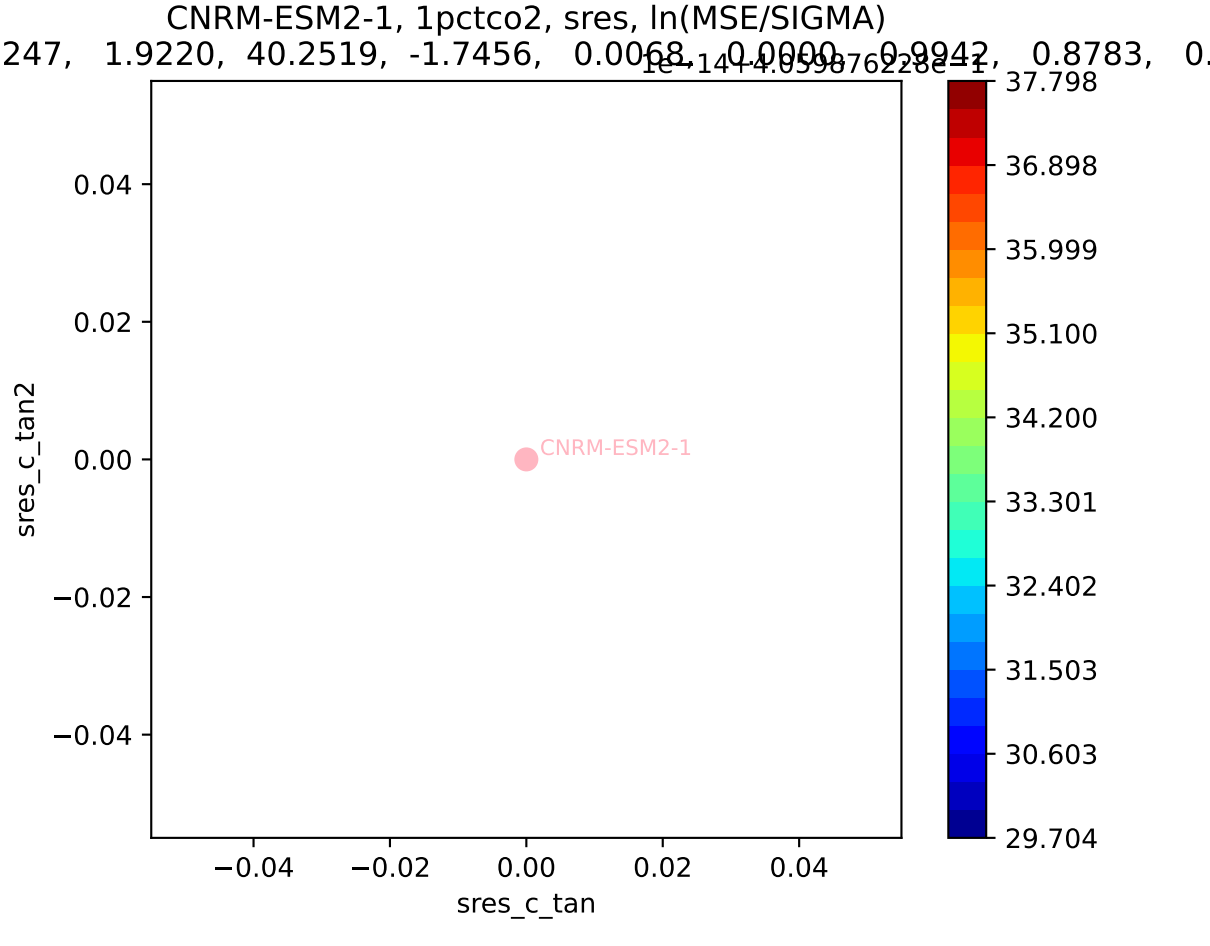

CNRM-ESM2-1, 1pctco2, sres
ESM
Fit
sres
c_atm

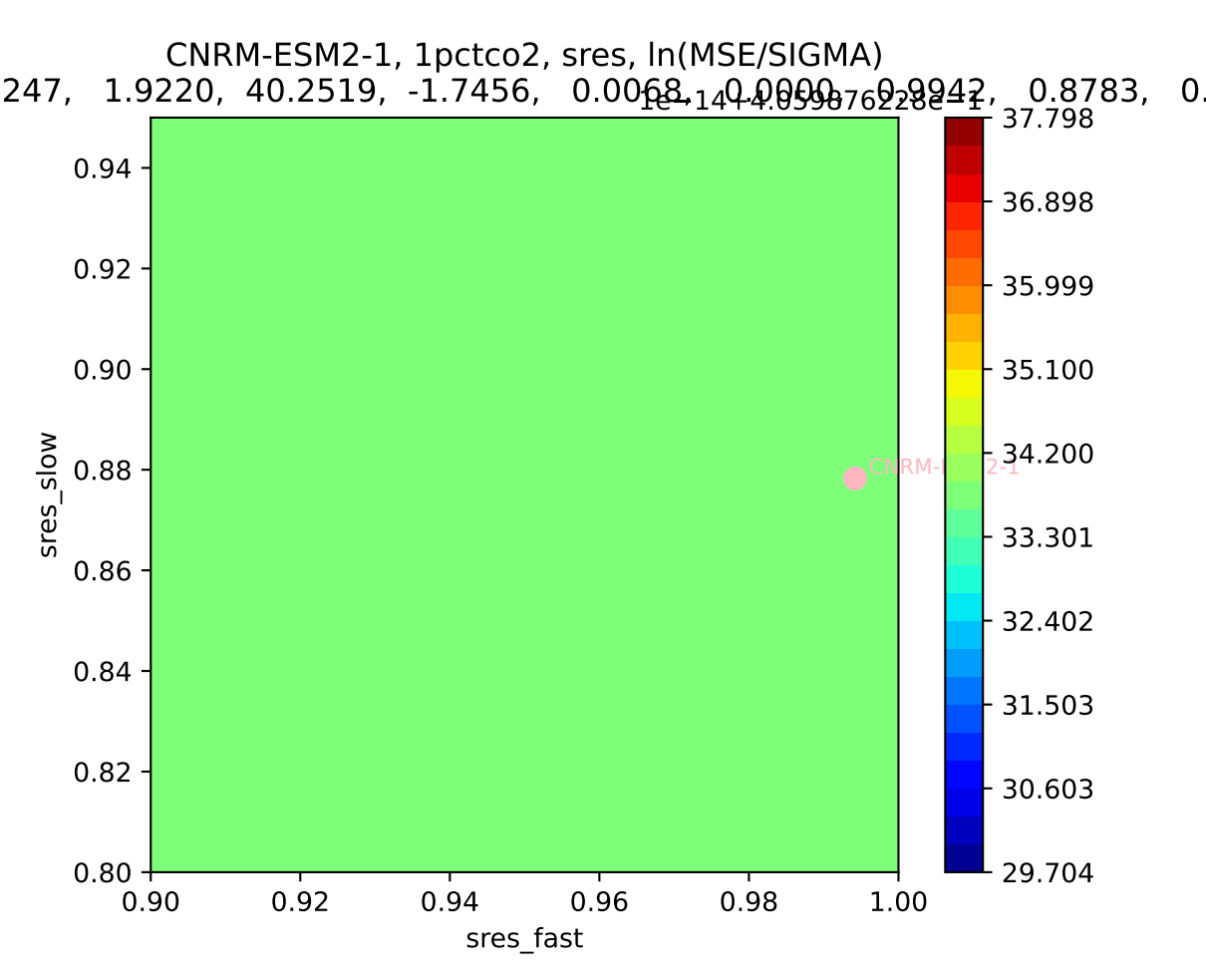

CNRM-ESM2-1, 1pctco2, sres
ESM-Fit
sres, ESM - FIT
c_atm

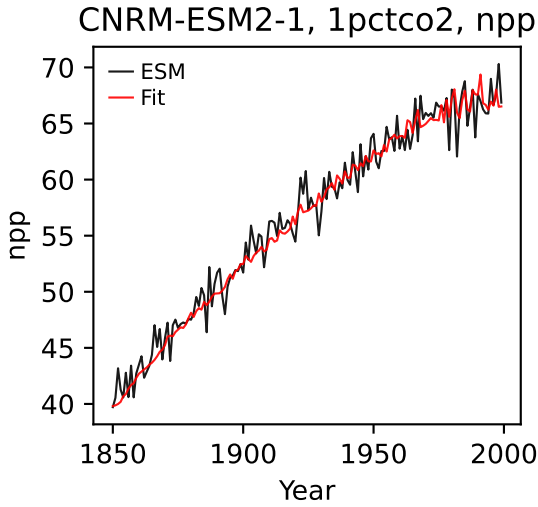

CNRM-ESM2-1, 1pctco2, sres, ln(MSE/SIGMA)
247, 1.9220, 40.2519, -1.7456, 0.0068, 0.0000, 0.9942, 0.8783, 0.
CNRM-ESM2-1
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

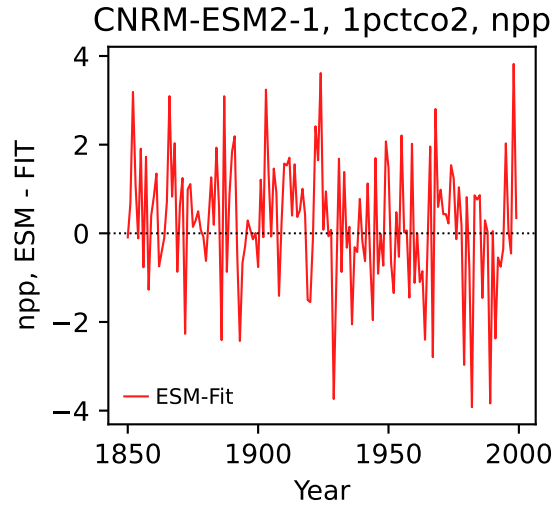

CNRM-ESM2-1, 1pctco2, sres, ln(MSE/SIGMA)
247, 1.9220, 40.2519, -1.7456, 0.0068, 0.0000, 0.9942, 0.8783, 0.
2000
1750
1500
1250
1000
750
500
250
0
sres_c_half
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
sres_c_l
CNRM-ESM2-1
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

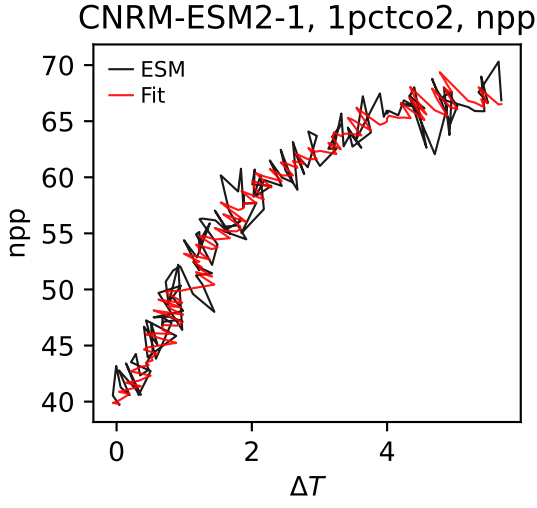

CNRM-ESM2-1, 1pctco2, sres, ln(MSE/SIGMA)
247, 1.9220, 40.2519, -1.7456, 0.0068, 0.0000, 0.9942, 0.8783, 0.
CNRM-ESM2-1
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2

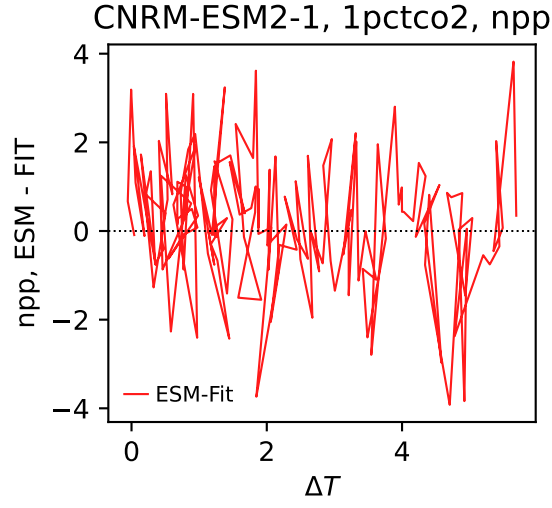

CNRM-ESM2-1, 1pctco2, sres, ln(MSE/SIGMA)
247, 1.9220, 40.2519, -1.7456, 0.0068, 0.0000, 0.9942, 0.8783, 0.
1e+14+4.059876228e+1
CNRM-ESM2-1
0.04
0.02
0.00
−0.02
−0.04
sres_c_tan2
−0.04
−0.02
0.00
0.02
0.04
sres_c_tan
37.798
36.898
35.999
35.100
34.200
33.301
32.402
31.503
30.603
29.704

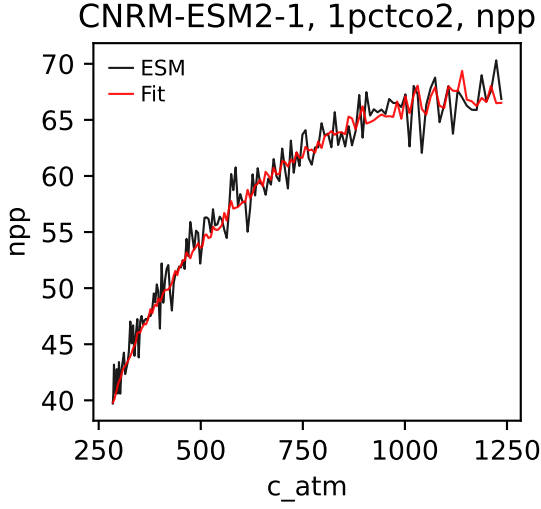

CNRM-ESM2-1, 1pctco2, sres, ln(MSE/SIGMA)
247, 1.9220, 40.2519, -1.7456, 0.0068, 0.0000, 0.9942, 0.8783, 0.
1e+14+4.0598762228e+1
37.798
36.898
35.999
35.100
34.200
33.301
32.402
31.503
30.603
29.704
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
sres_slow
0.90
0.92
0.94
0.96
0.98
1.00
sres_fast

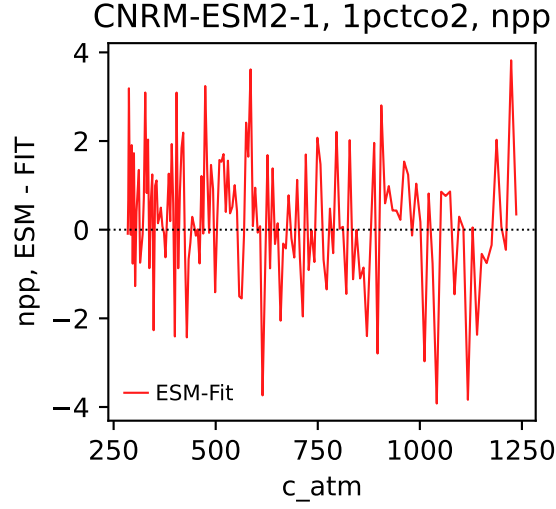

CNRM-ESM2-1, 1pctco2, npp
ESM
Fit
npp
Year

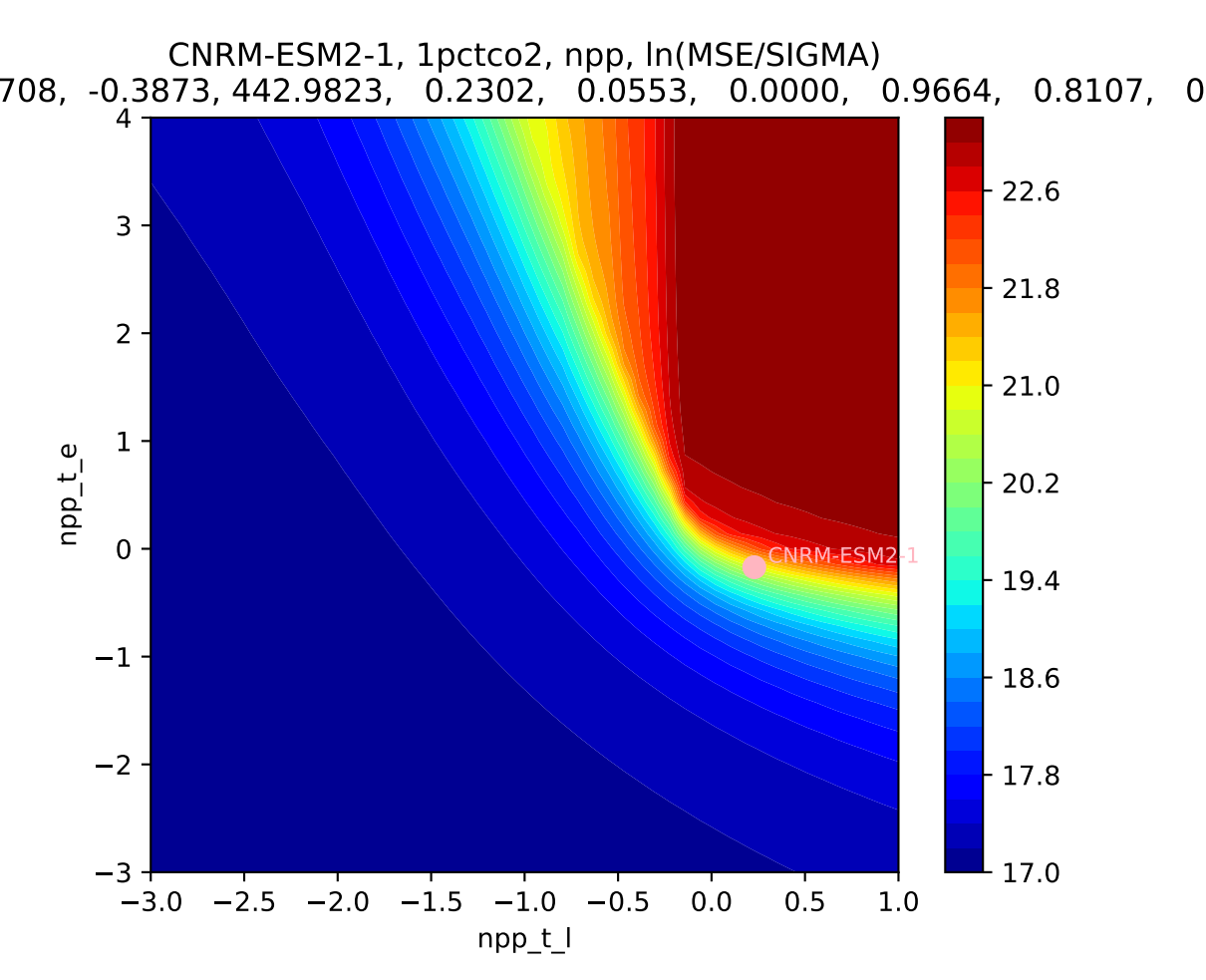

CNRM-ESM2-1, 1pctco2, npp
npp, ESM - FIT
ESM-Fit
Year

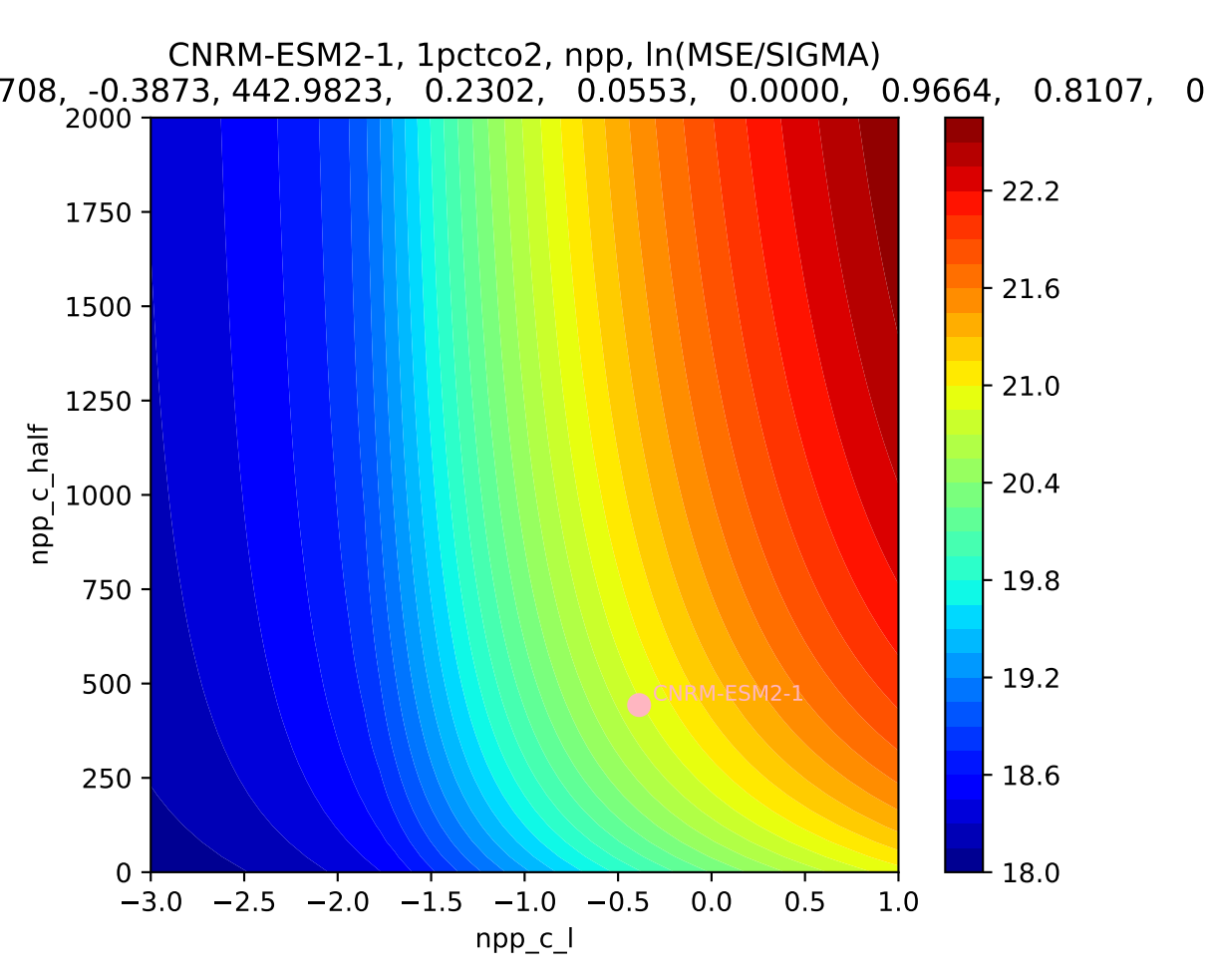

CNRM-ESM2-1, 1pctco2, npp
ESM
Fit
npp
ΔT

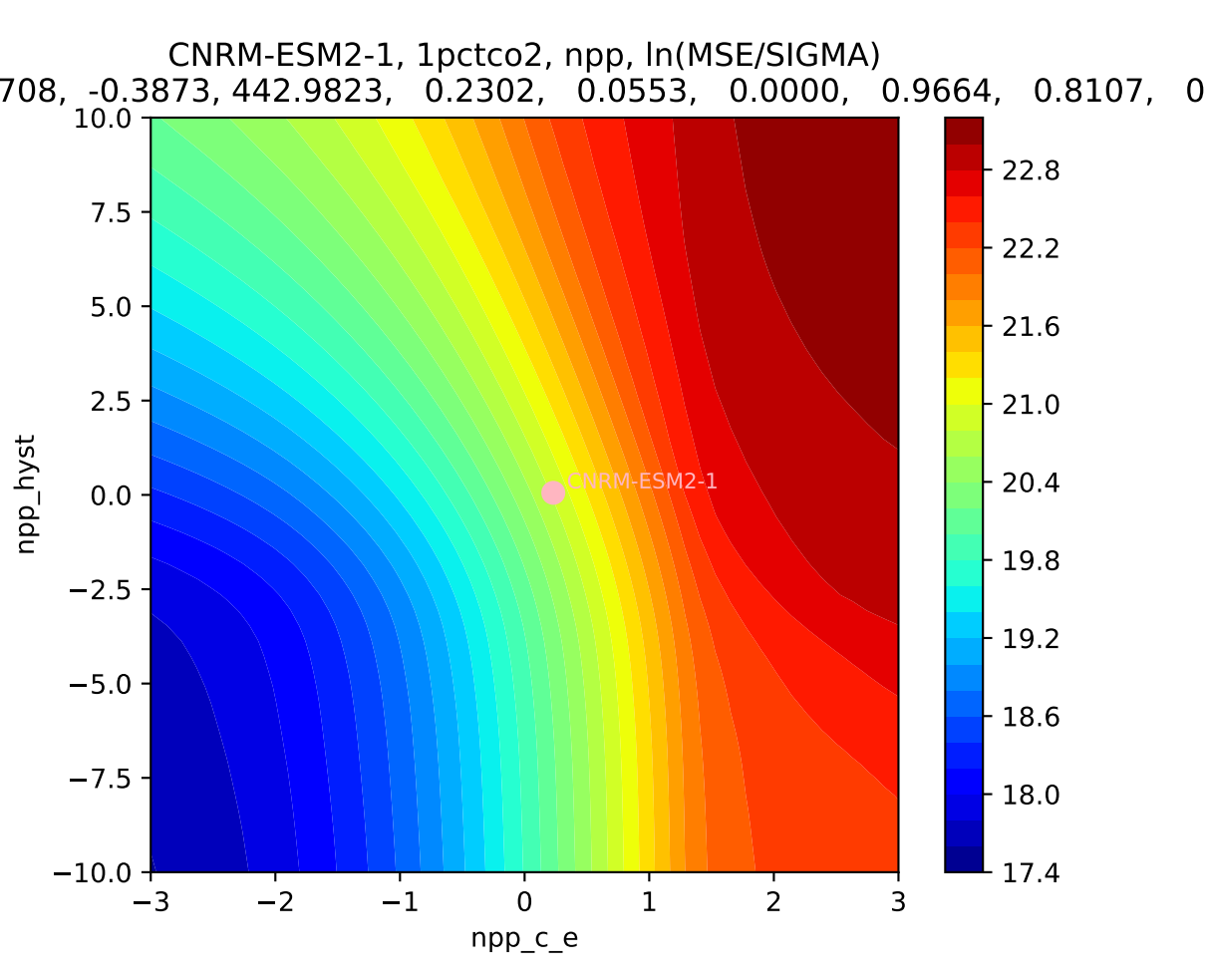

CNRM-ESM2-1, 1pctco2, npp
npp, ESM - FIT
ESM-Fit
ΔT

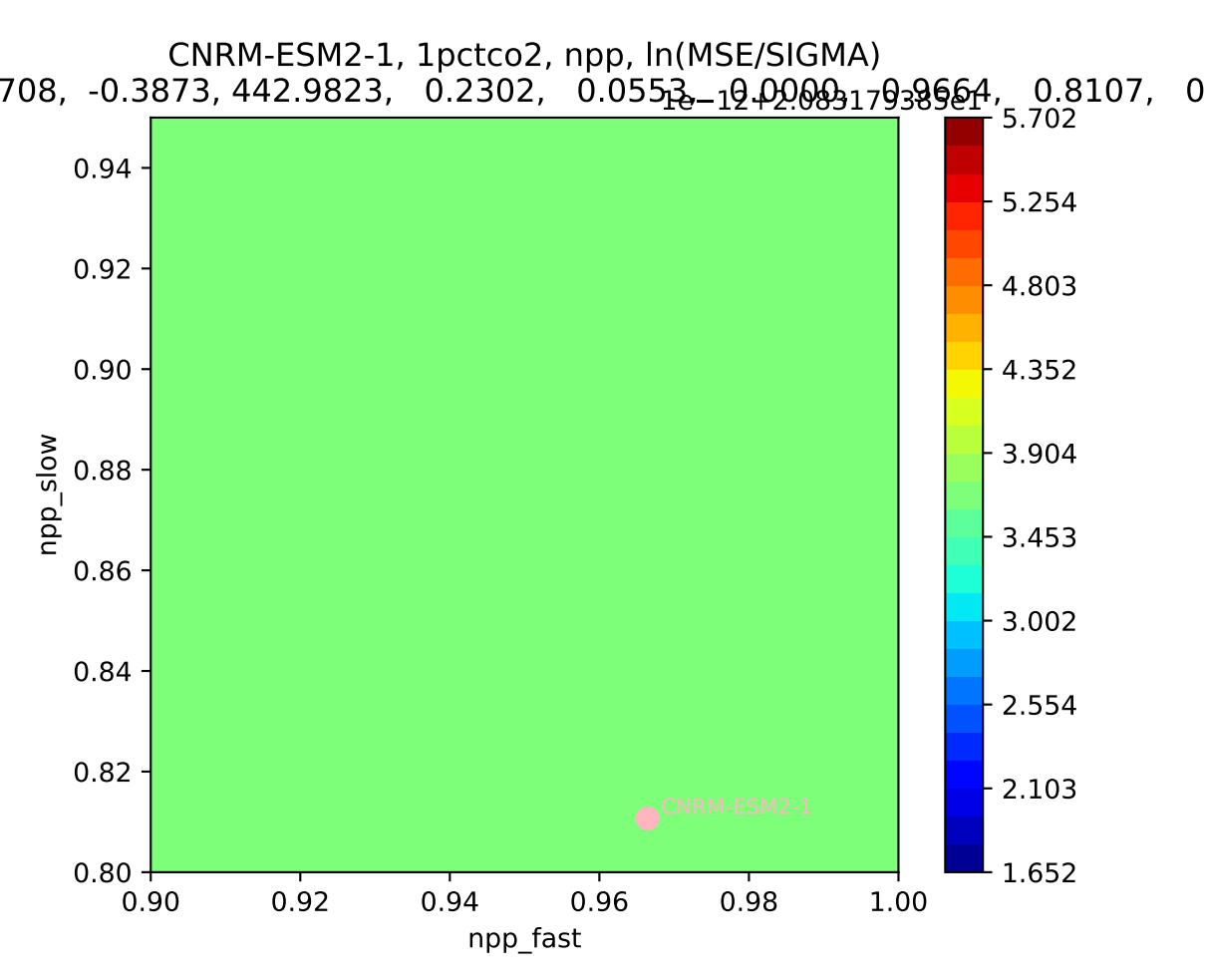

CNRM-ESM2-1, 1pctco2, npp
ESM
Fit
npp
c_atm

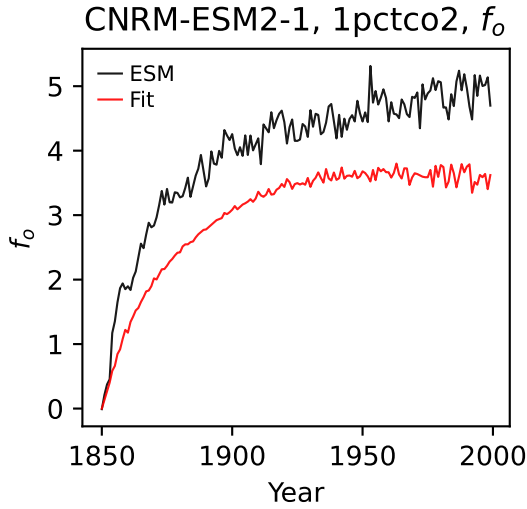

CNRM-ESM2-1, 1pctco2, npp
npp, ESM - FIT
ESM-Fit
c_atm

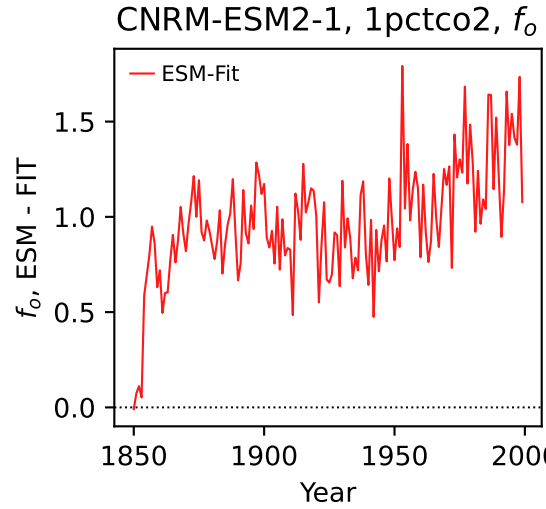

CNRM-ESM2-1, 1pctco2, npp, ln(MSE/SIGMA)
708, -0.3873, 442.9823, 0.2302, 0.0553, 0.0000, 0.9664, 0.8107, 0
CNRM-ESM2-1
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.6
21.8
21.0
20.2
19.4
18.6
17.8
17.0

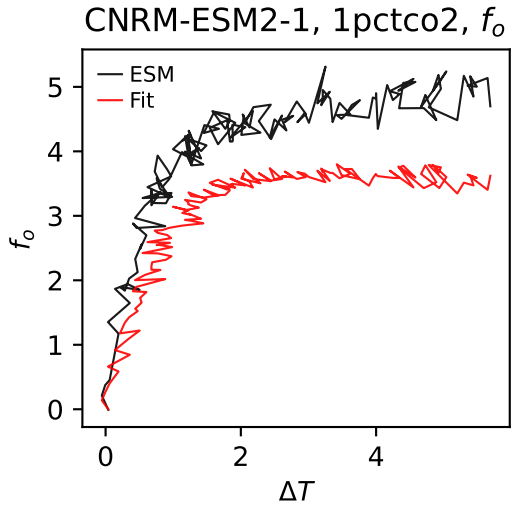

CNRM-ESM2-1, 1pctco2, npp, ln(MSE/SIGMA)
708, -0.3873, 442.9823, 0.2302, 0.0553, 0.0000, 0.9664, 0.8107, 0
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
CNRM-ESM2-1
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0

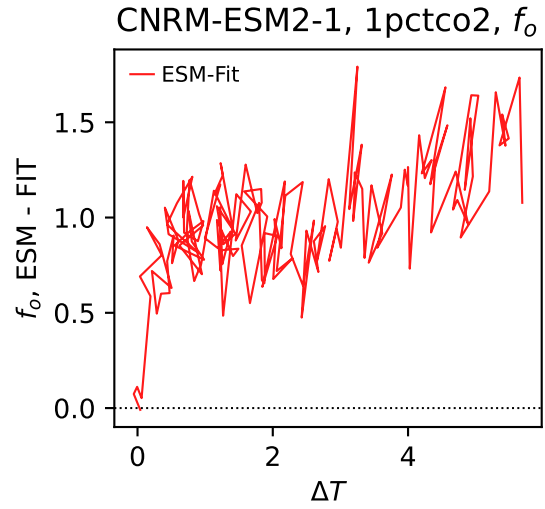

CNRM-ESM2-1, 1pctco2, npp, ln(MSE/SIGMA)
708, -0.3873, 442.9823, 0.2302, 0.0553, 0.0000, 0.9664, 0.8107, 0
CNRM-ESM2-1
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.8
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0
17.4

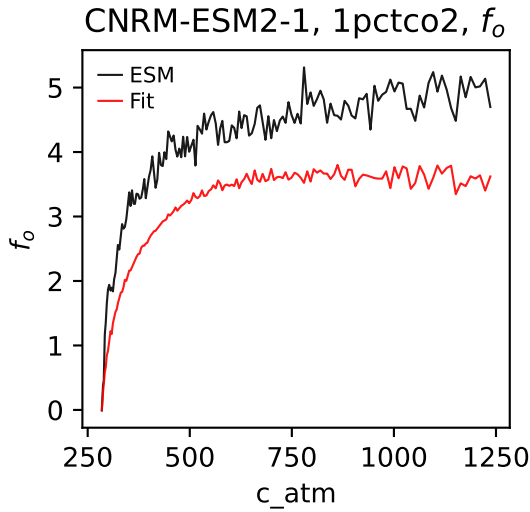

CNRM-ESM2-1, 1pctco2, npp, ln(MSE/SIGMA)
708, -0.3873, 442.9823, 0.2302, 0.0553, 0.0000, 0.9664, 0.8107, 0
1e−12+2.0831793859e1
5.702
5.254
4.803
4.352
3.904
3.453
3.002
2.554
2.103
1.652
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
npp_slow
CNRM-ESM2-1
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast

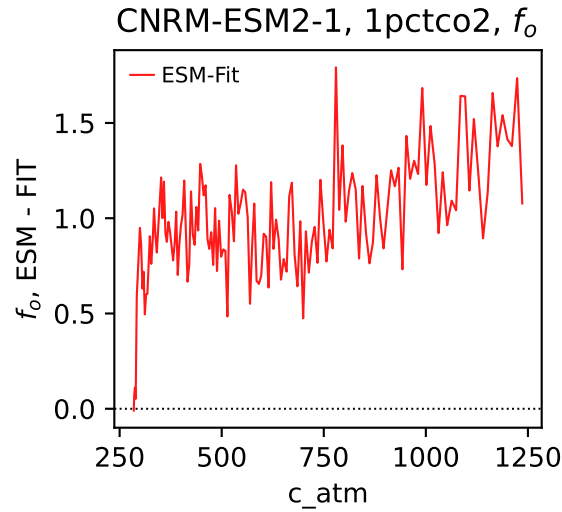

CNRM-ESM2-1, 1pctco2, f_o
ESM
Fit
f_o
Year

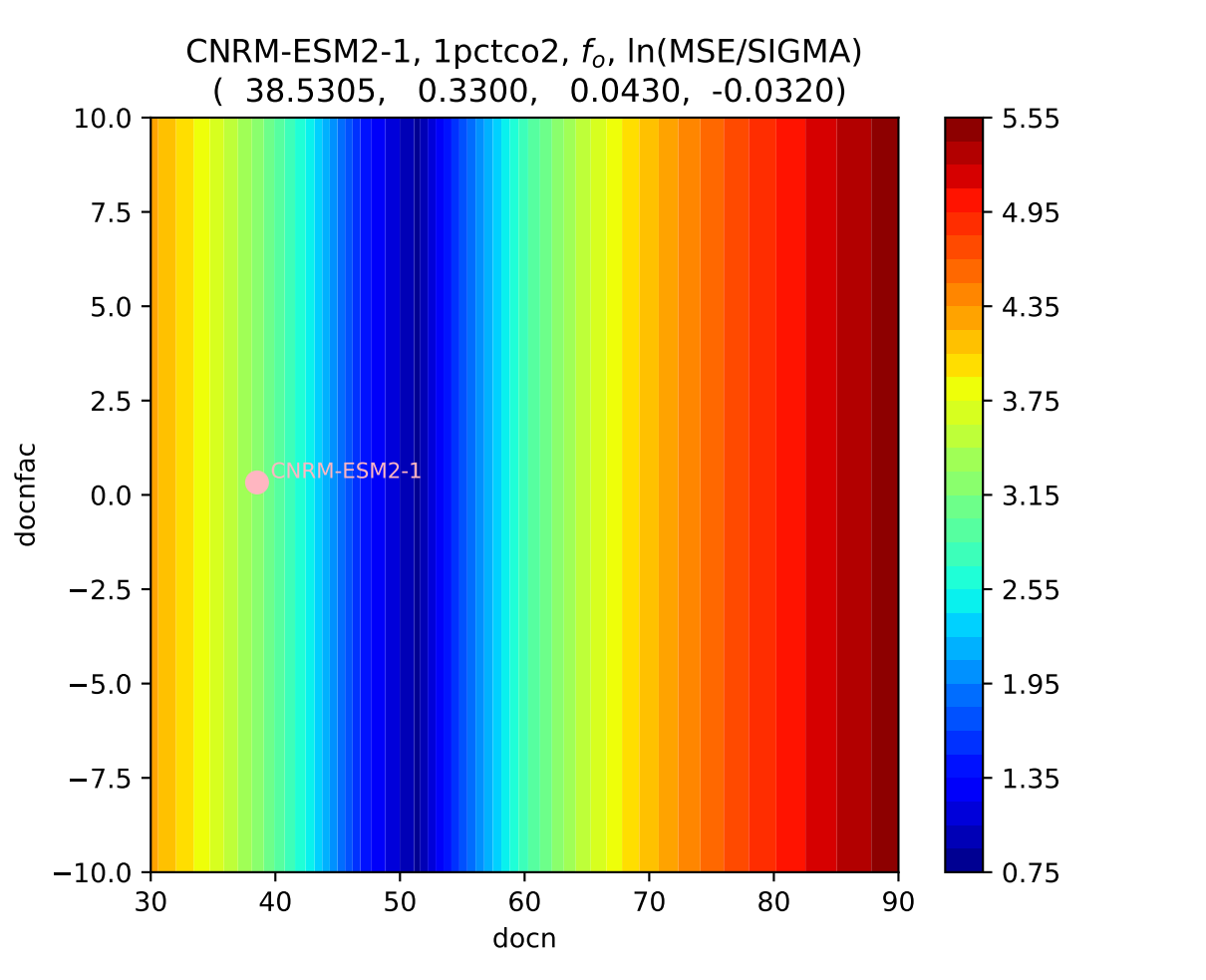

CNRM-ESM2-1, 1pctco2, f_o
ESM-Fit
f_o, ESM - FIT
Year

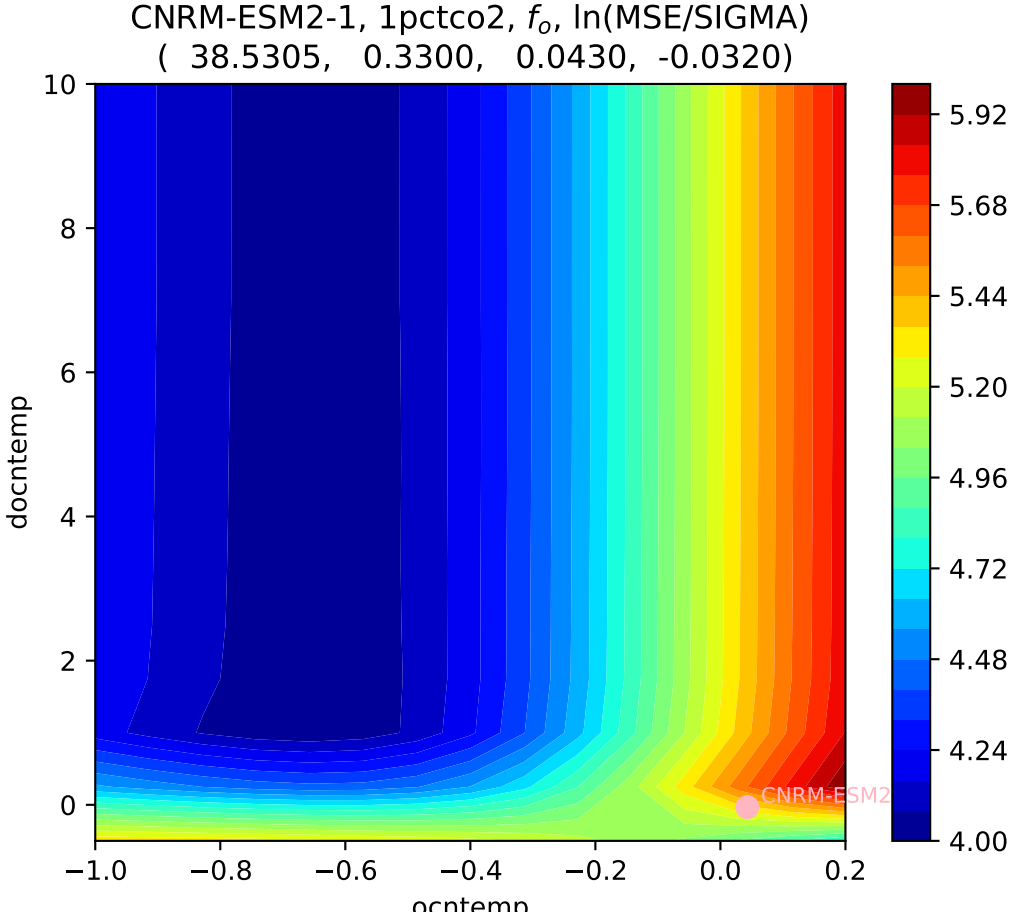

CNRM-ESM2-1, 1pctco2, f_o
ESM
Fit
f_o
ΔT


CNRM-ESM2-1, 1pctco2, f_o
ESM-Fit
f_o, ESM - FIT
ΔT


CNRM-ESM2-1, 1pctco2, f_o
ESM
Fit
f_o
c_atm


CNRM-ESM2-1, 1pctco2, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


CNRM-ESM2-1, 1pctco2, f_o, ln(MSE/SIGMA)
(38.5305, 0.3300, 0.0430, -0.0320)
CNRM-ESM2-1
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
5.55
4.95
4.35
3.75
3.15
2.55
1.95
1.35
0.75


CNRM-ESM2-1, 1pctco2, f_o, ln(MSE/SIGMA)
(38.5305, 0.3300, 0.0430, -0.0320)
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
5.92
5.68
5.44
5.20
4.96
4.72
4.48
4.24
4.00
CNRM-ESM2