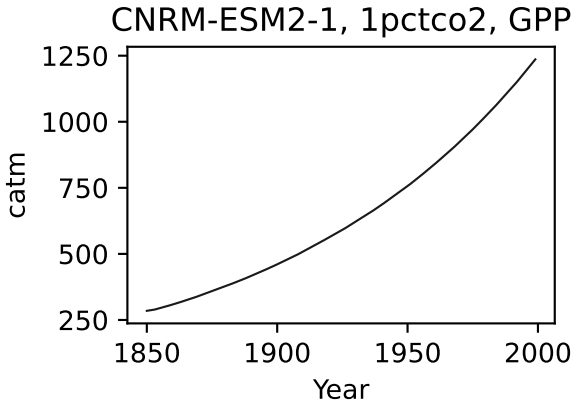
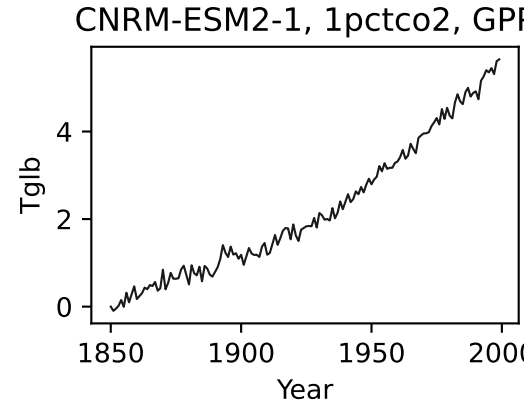
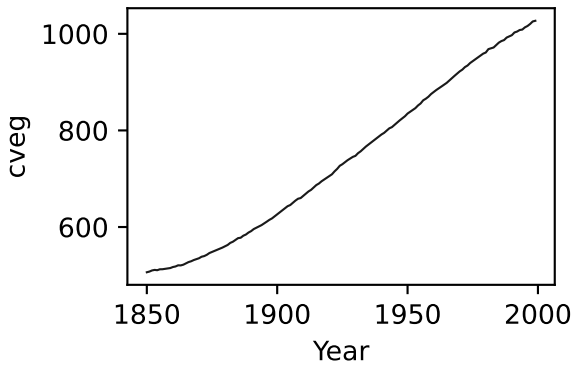
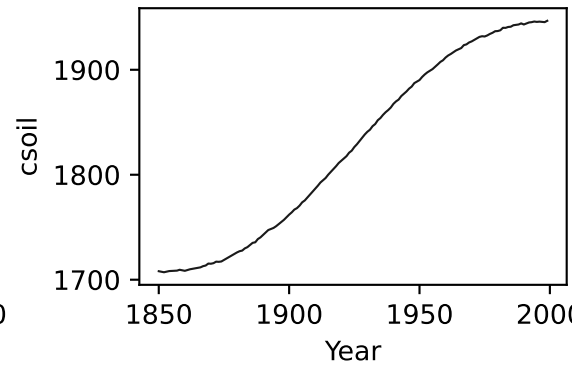
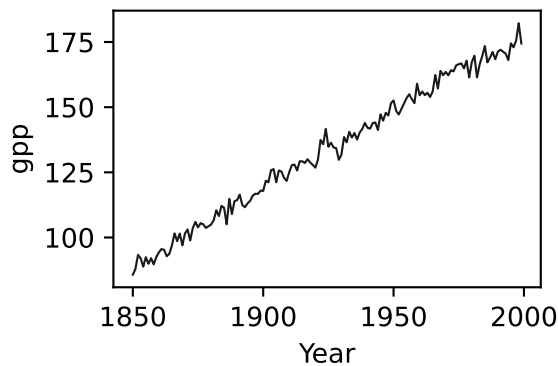
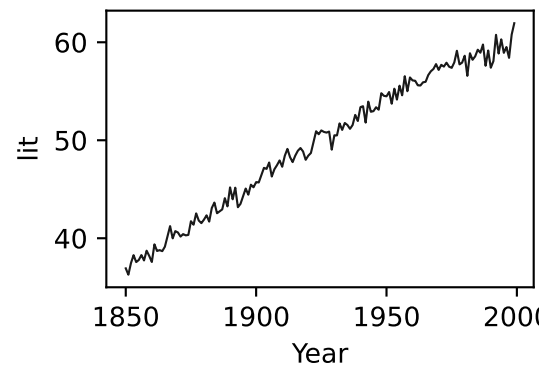

CNRM-ESM2-1, 1pctco2, GPP
catm
1250
1000
750
500
250
1850
1900
1950
2000
Year


CNRM-ESM2-1, 1pctco2, GPP
Tglb
4
2
0
1850
1900
1950
2000
Year


cveg
1000
800
600
1850
1900
1950
2000
Year


csoil
1900
1800
1700
1850
1900
1950
2000
Year


gpp
175
150
125
100
1850
1900
1950
2000
Year


lit
60
50
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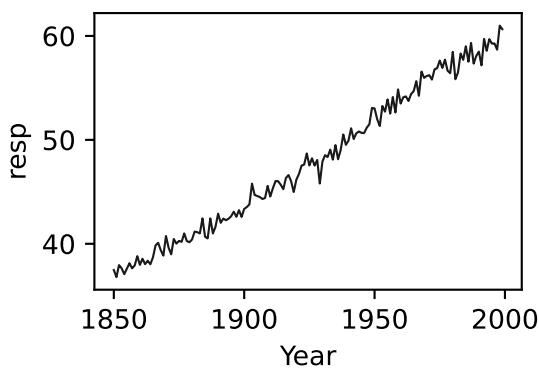
1850
1900
1950
2000
Year


resp
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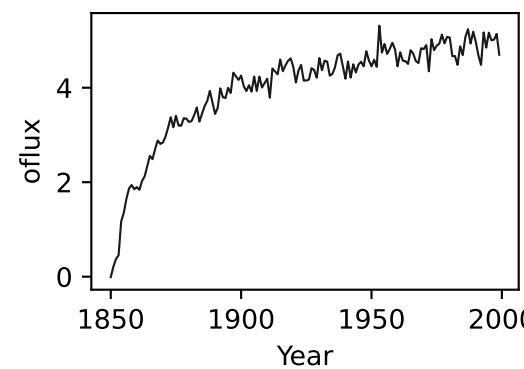
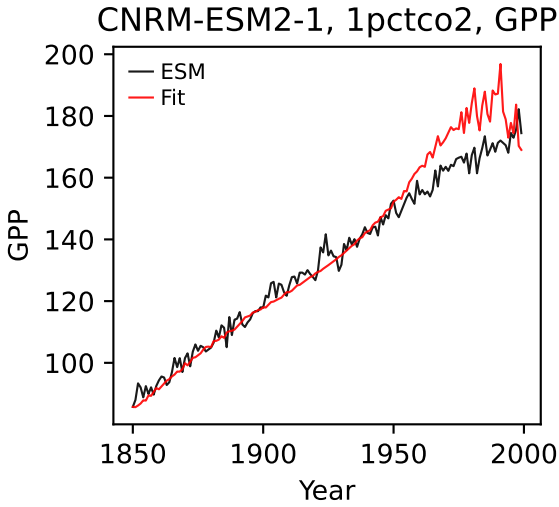
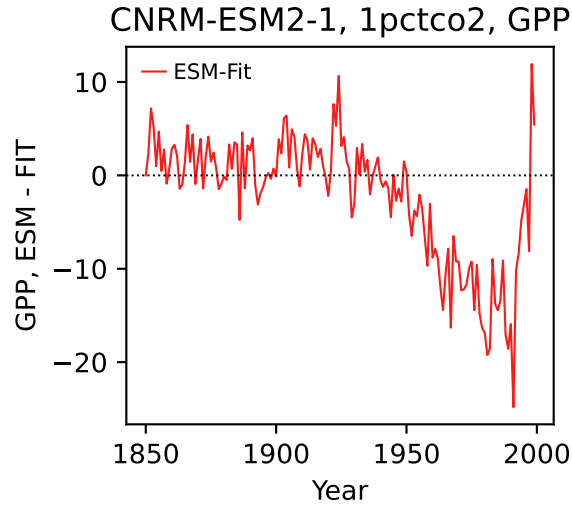
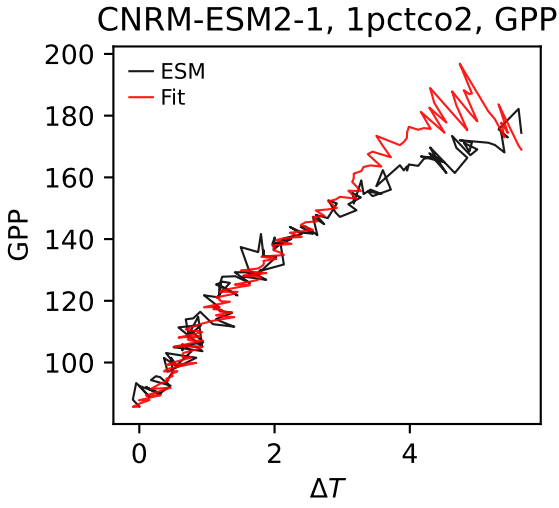
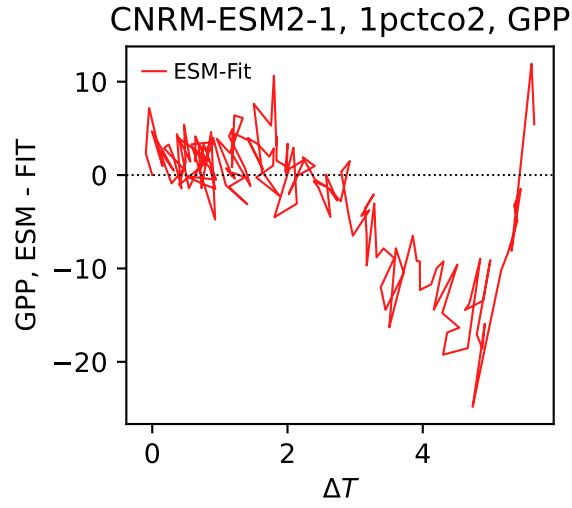
1850
1900
1950
2000
Year

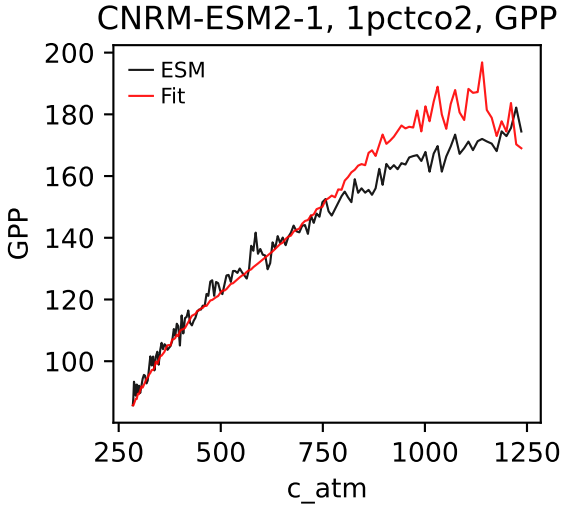

oflux
4
2
0
1850
1900
1950
2000
Year

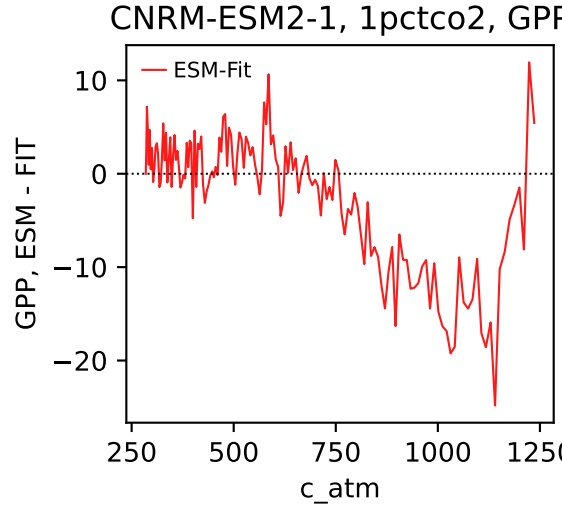

CNRM-ESM2-1, 1pctco2, GPP
ESM
Fit
GPP
Year

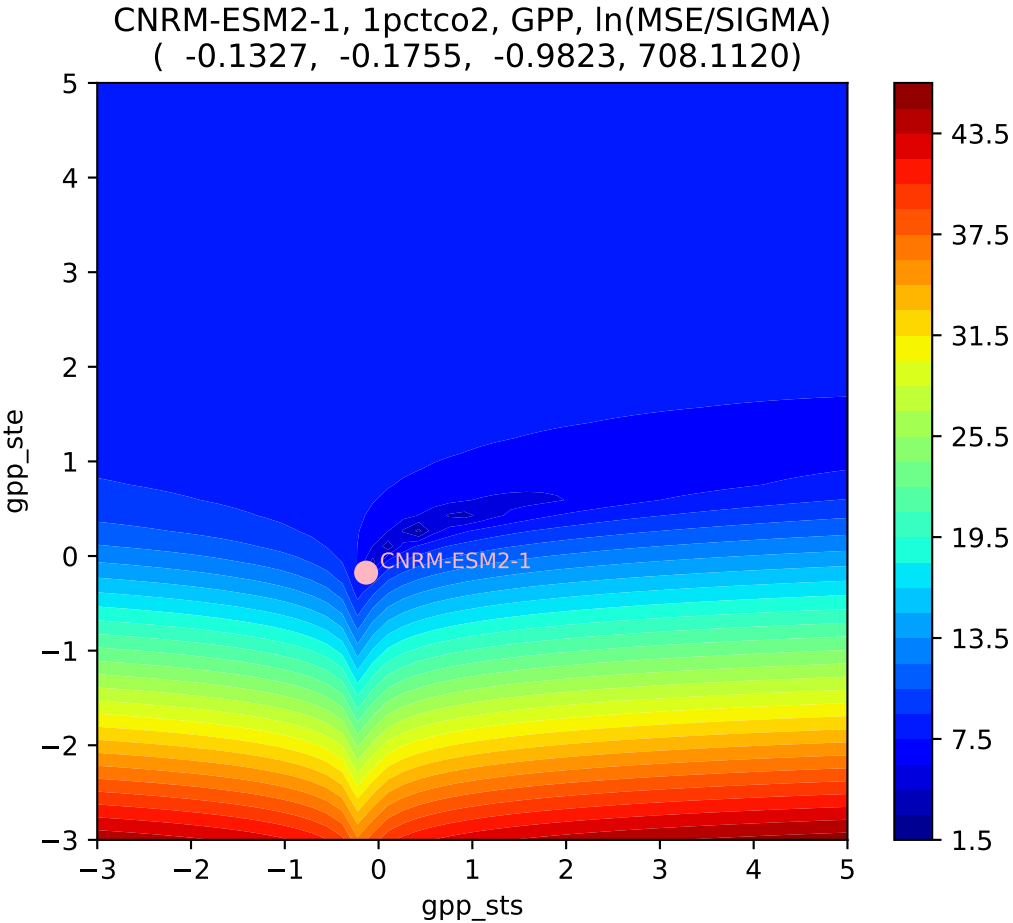

CNRM-ESM2-1, 1pctco2, GPP
ESM-Fit
GPP, ESM - FIT
Year

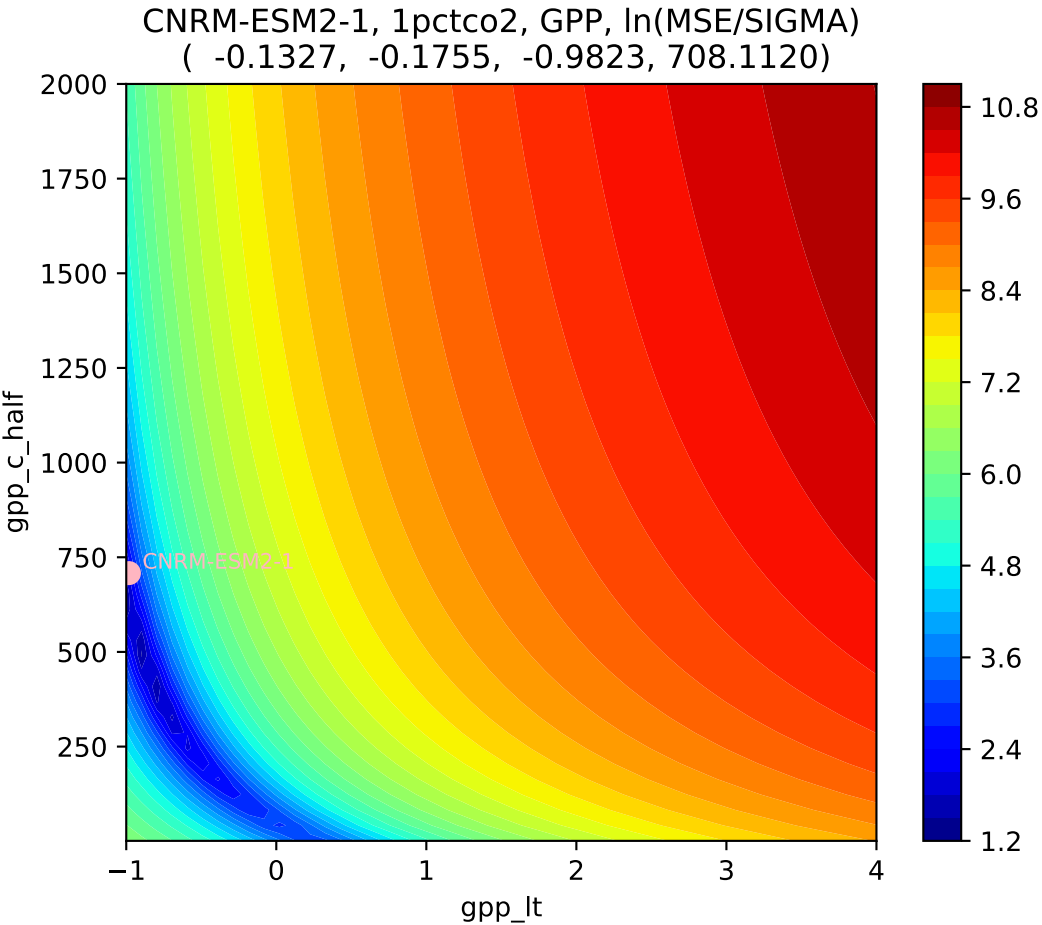

CNRM-ESM2-1, 1pctco2, GPP
ESM
Fit
GPP
ΔT

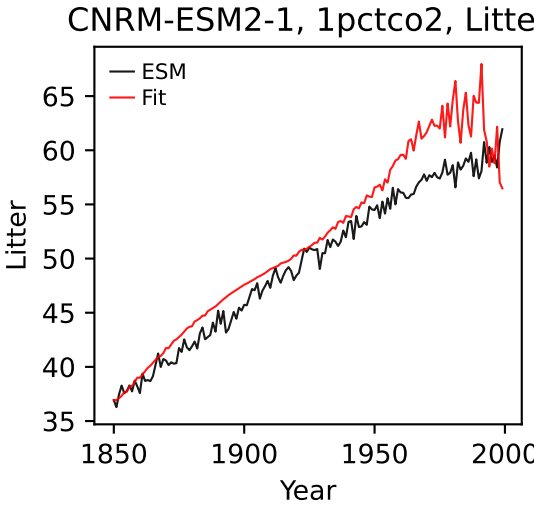

CNRM-ESM2-1, 1pctco2, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

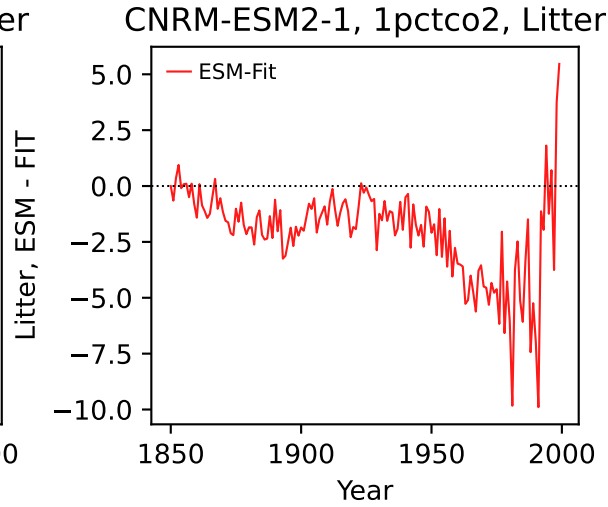

CNRM-ESM2-1, 1pctco2, GPP
ESM
Fit
GPP
c_atm

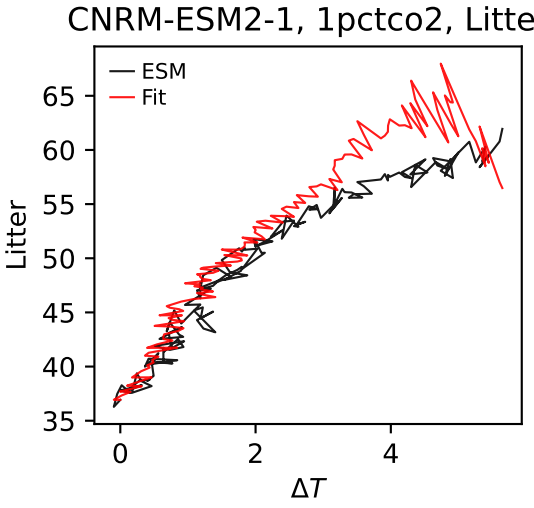

CNRM-ESM2-1, 1pctco2, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

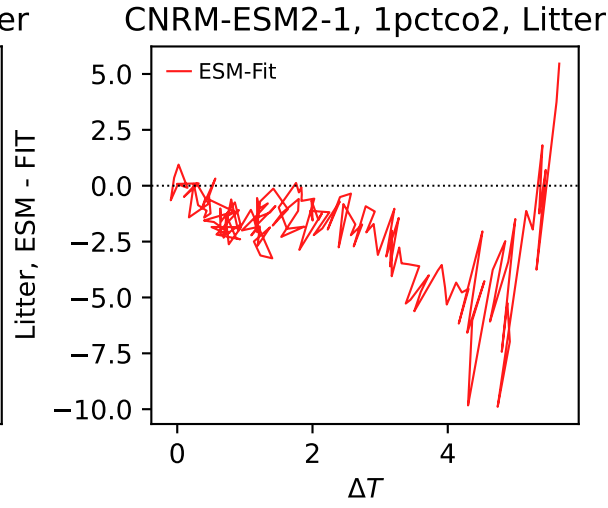

CNRM-ESM2-1, 1pctco2, GPP, ln(MSE/SIGMA)
(-0.1327, -0.1755, -0.9823, 708.1120)
gpp_ste
gpp_sts
CNRM-ESM2-1
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
43.5
37.5
31.5
25.5
19.5
13.5
7.5
1.5

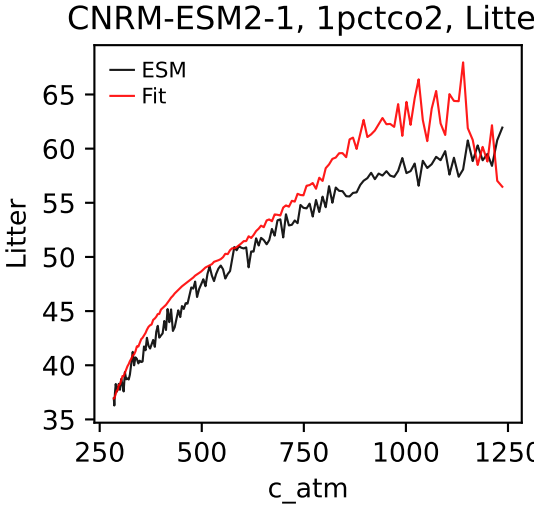

CNRM-ESM2-1, 1pctco2, GPP, ln(MSE/SIGMA)
(-0.1327, -0.1755, -0.9823, 708.1120)
gpp_c_half
gpp_lt
CNRM-ESM2-1
2000
1750
1500
1250
1000
750
500
250
−1
0
1
2
3
4
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

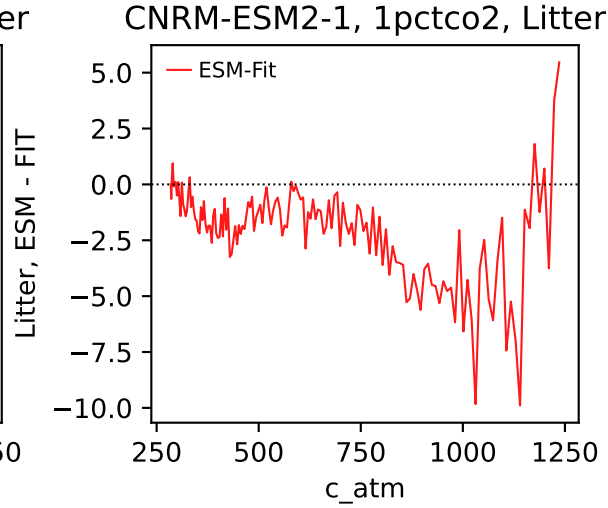

CNRM-ESM2-1, 1pctco2, Litter
ESM
Fit
Litter
Year

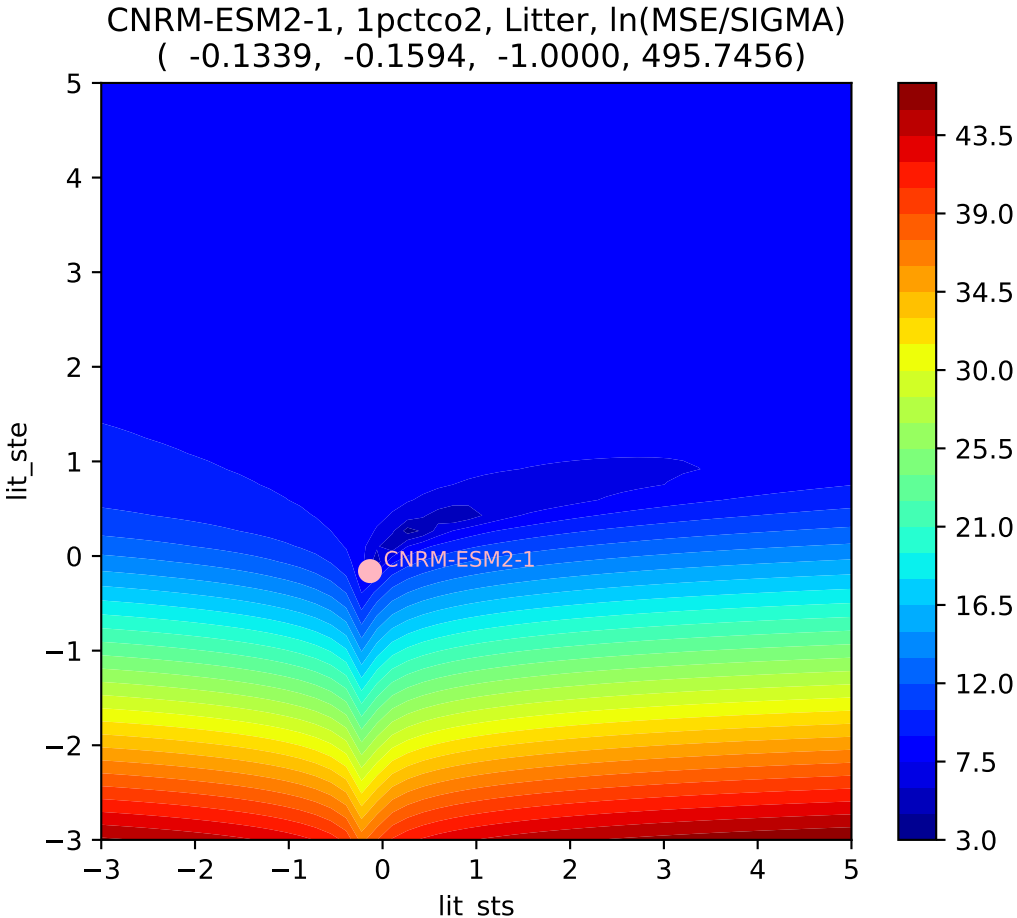

CNRM-ESM2-1, 1pctco2, Litter
ESM-Fit
Litter, ESM - FIT
Year


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)
(-0.1339, -0.1594, -1.0000, 495.7456)
lit_ste
lit_sts
CNRM-ESM2-1
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
43.5
39.0
34.5
30.0
25.5
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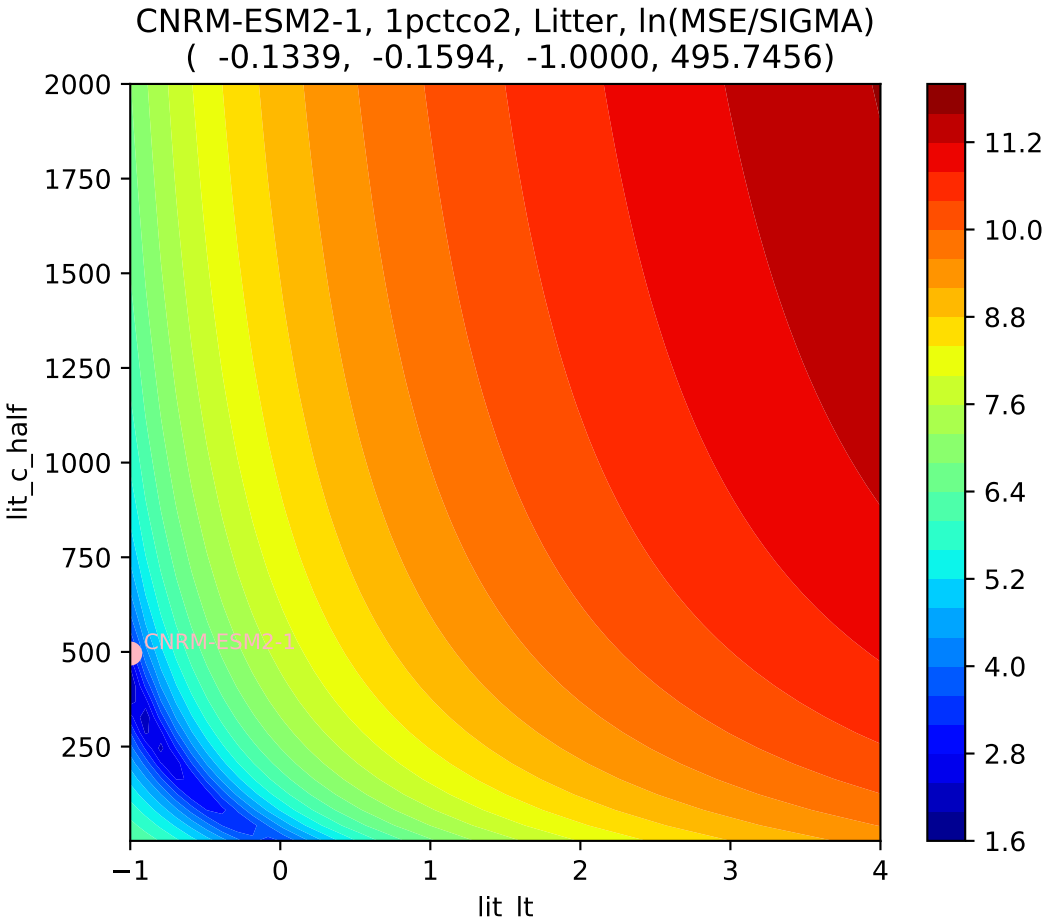
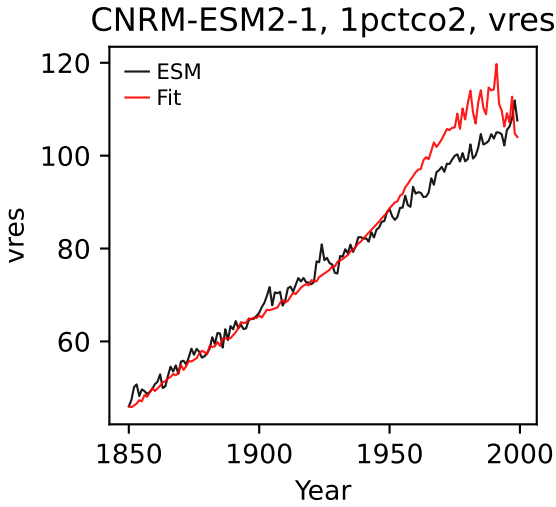
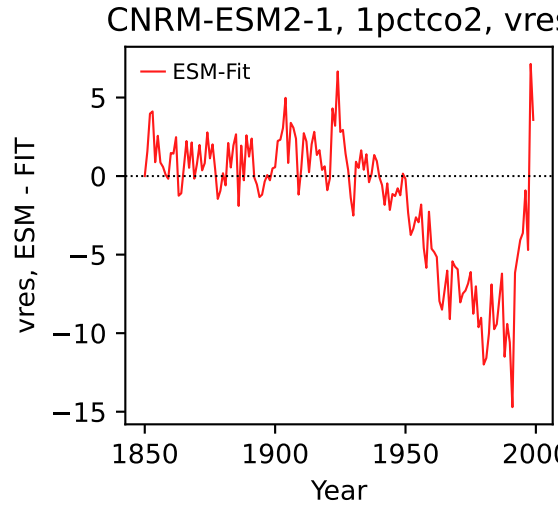
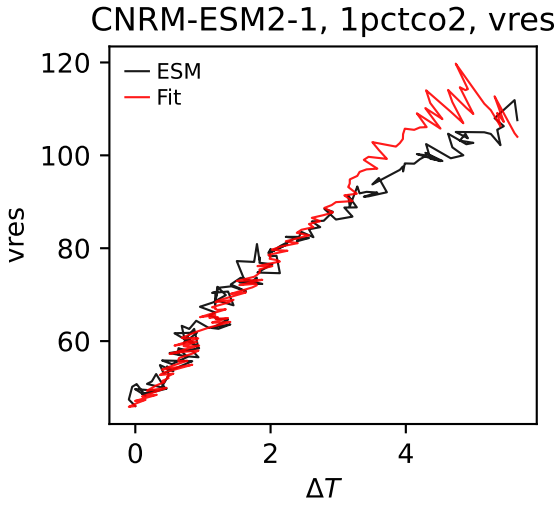
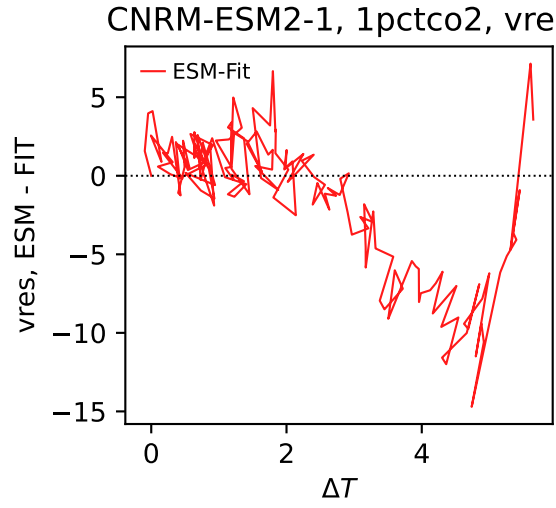
7.5
3.0

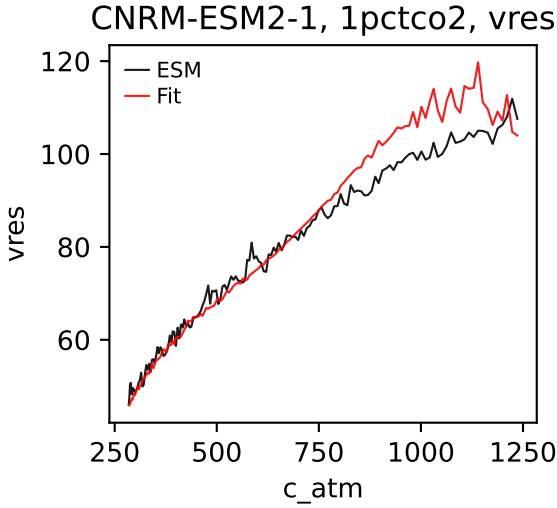

CNRM-ESM2-1, 1pctco2, Litter, ln(MSE/SIGMA)
(-0.1339, -0.1594, -1.0000, 495.7456)
2000
1750
1500
1250
1000
750
500
250
lit_c_half
CNRM-ESM2-1
−1
0
1
2
3
4
lit_lt
11.2
10.0
8.8
7.6
6.4
5.2
4.0
2.8
1.6

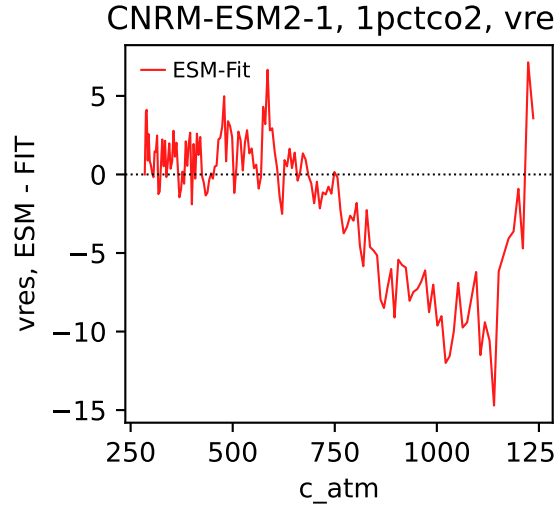

CNRM-ESM2-1, 1pctco2, vres
ESM
Fit
vres
Year

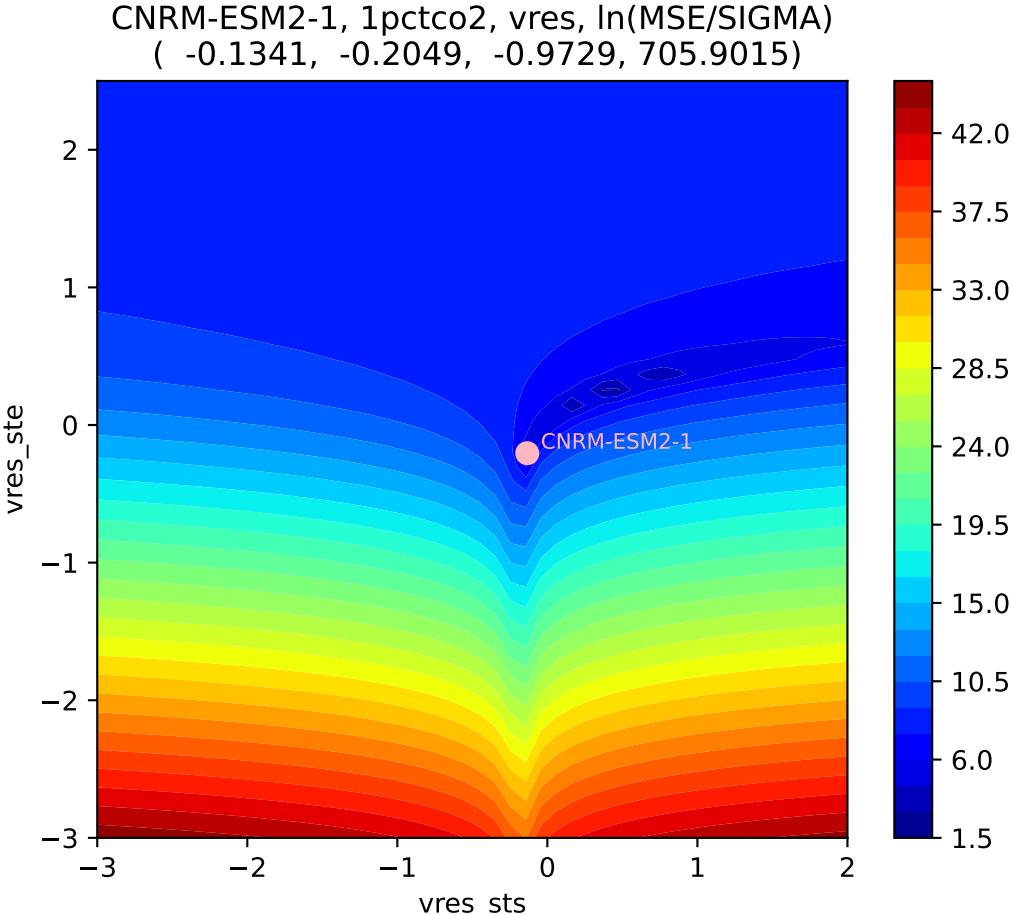

CNRM-ESM2-1, 1pctco2, vres
ESM-Fit
vres, ESM - FIT
Year

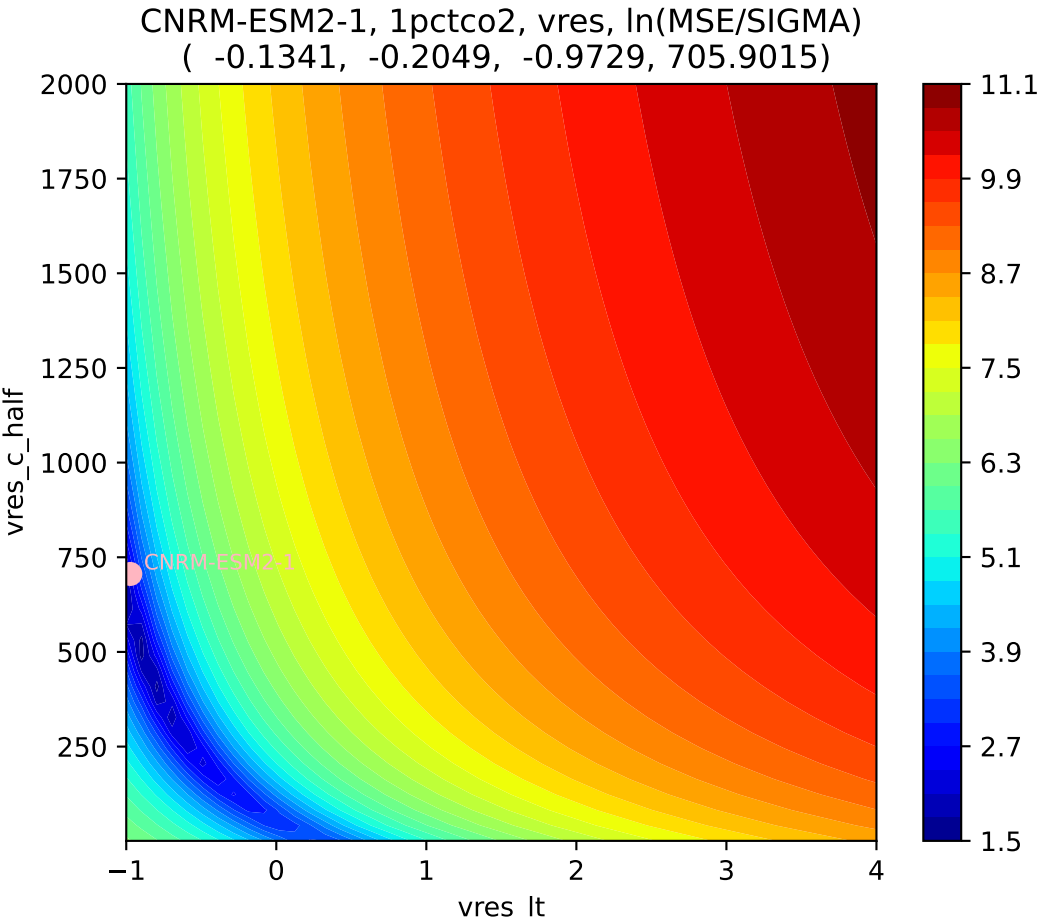

CNRM-ESM2-1, 1pctco2, vres
ESM
Fit
vres
ΔT

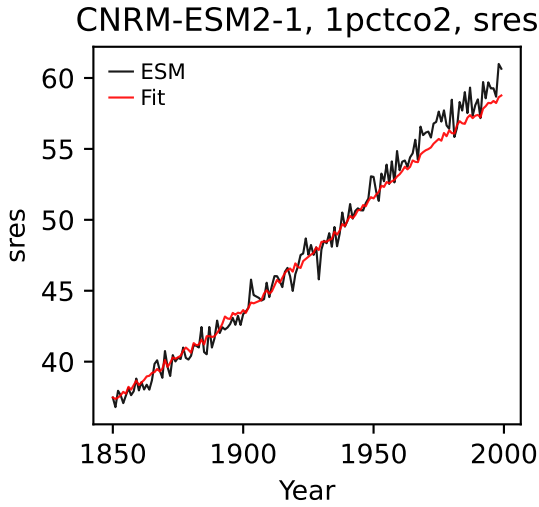

CNRM-ESM2-1, 1pctco2, vres
ESM-Fit
vres, ESM - FIT
ΔT

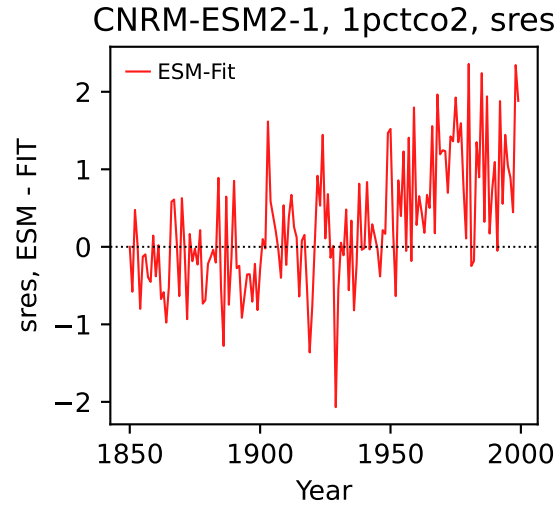

CNRM-ESM2-1, 1pctco2, vres
ESM
Fit
vres
c_atm

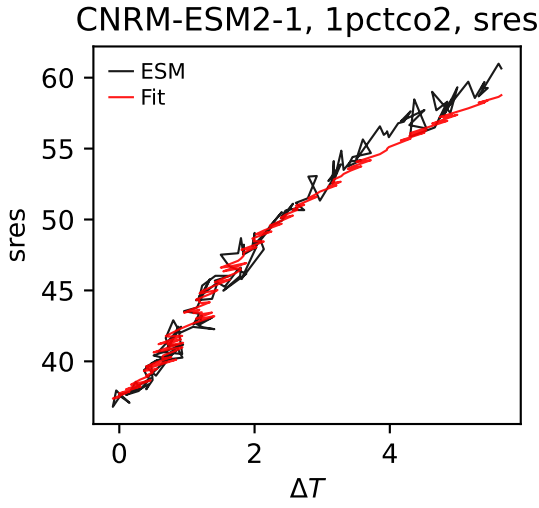

CNRM-ESM2-1, 1pctco2, vres
ESM-Fit
vres, ESM - FIT
c_atm

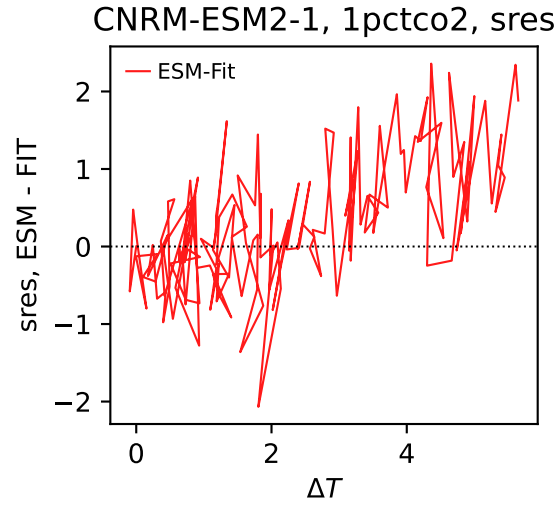

CNRM-ESM2-1, 1pctco2, vres, ln(MSE/SIGMA)
(-0.1341, -0.2049, -0.9729, 705.9015)
CNRM-ESM2-1
vres_ste
vres_sts
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
42.0
37.5
33.0
28.5
24.0
19.5
15.0
10.5
6.0
1.5

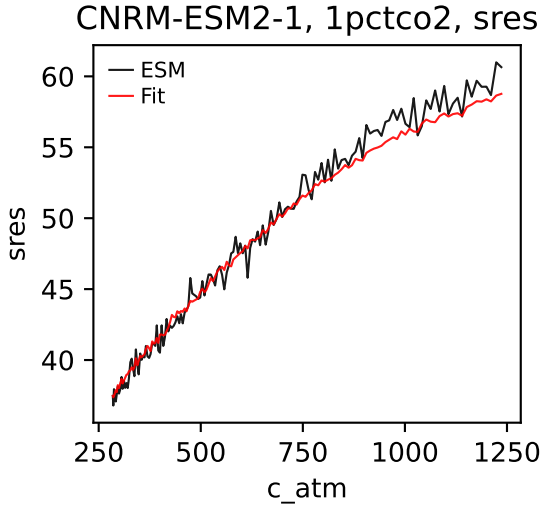

CNRM-ESM2-1, 1pctco2, vres, ln(MSE/SIGMA)
(-0.1341, -0.2049, -0.9729, 705.9015)
vres_c_half
vres_lt
CNRM-ESM2-1
2000
1750
1500
1250
1000
750
500
250
−1
0
1
2
3
4
11.1
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5

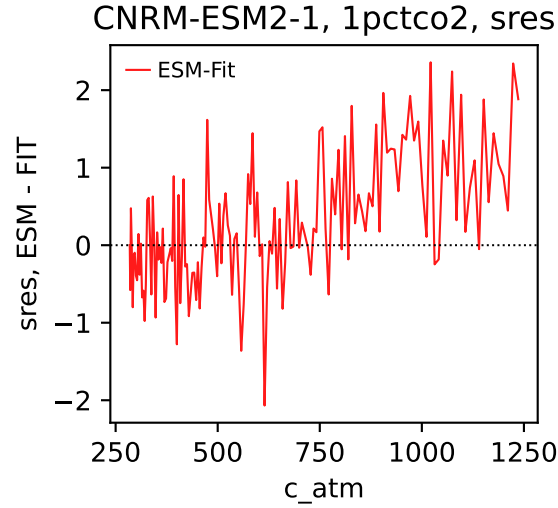

CNRM-ESM2-1, 1pctco2, sres
ESM
Fit
sres
Year

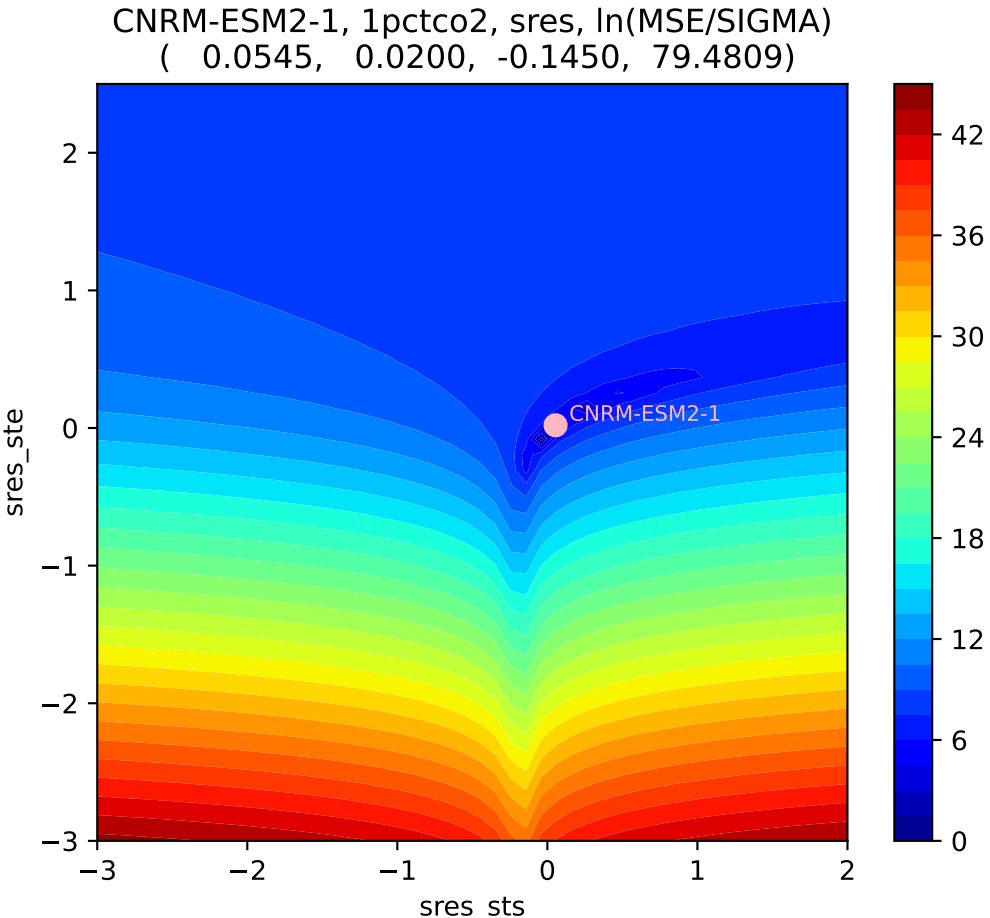

CNRM-ESM2-1, 1pctco2, sres
ESM-Fit
sres, ESM - FIT
Year

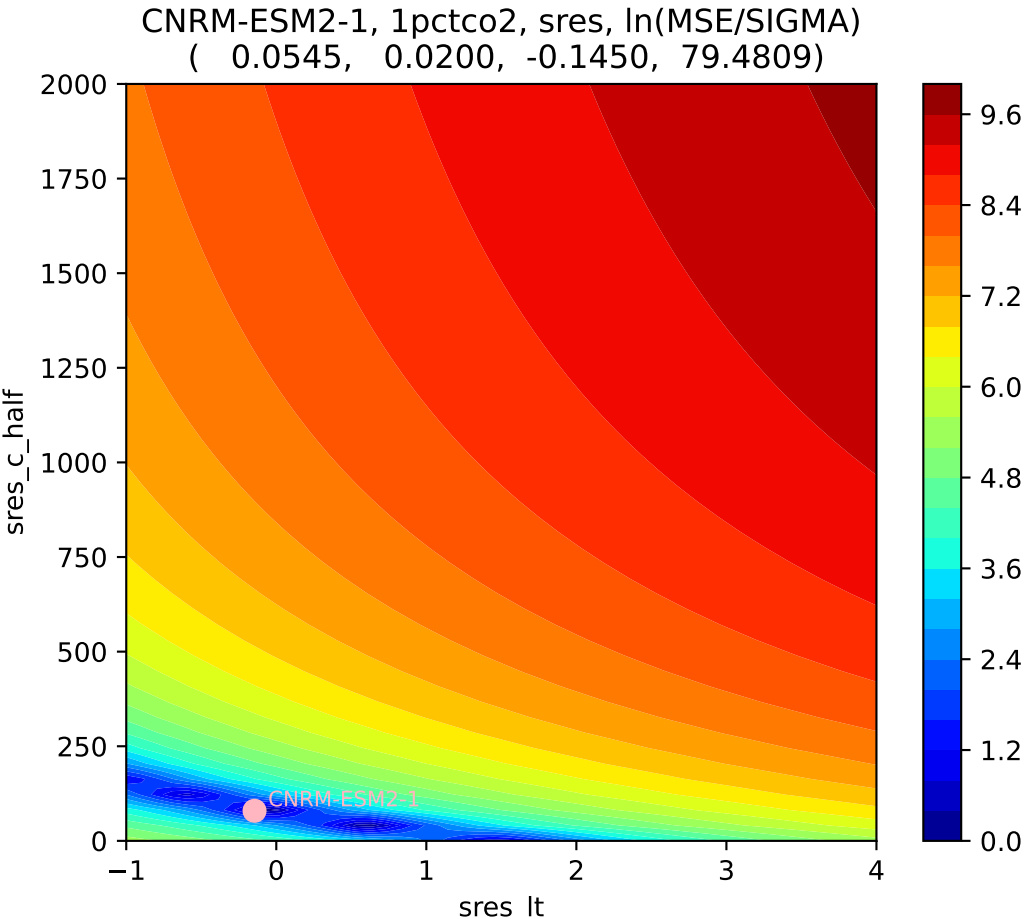

CNRM-ESM2-1, 1pctco2, sres
ESM
Fit
sres
ΔT

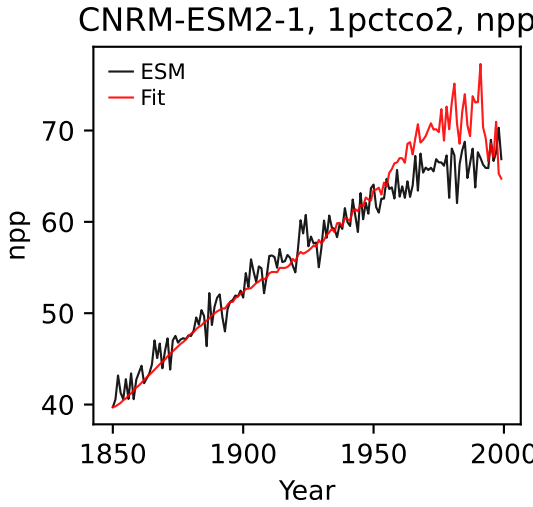

CNRM-ESM2-1, 1pctco2, sres
ESM-Fit
sres, ESM - FIT
ΔT

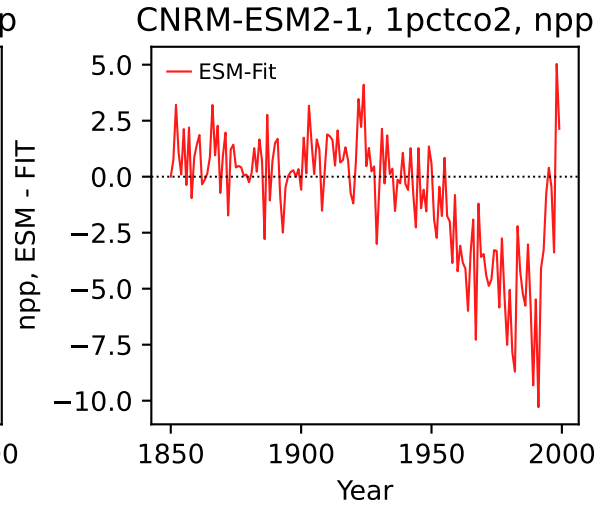

CNRM-ESM2-1, 1pctco2, sres
ESM
Fit
sres
c_atm

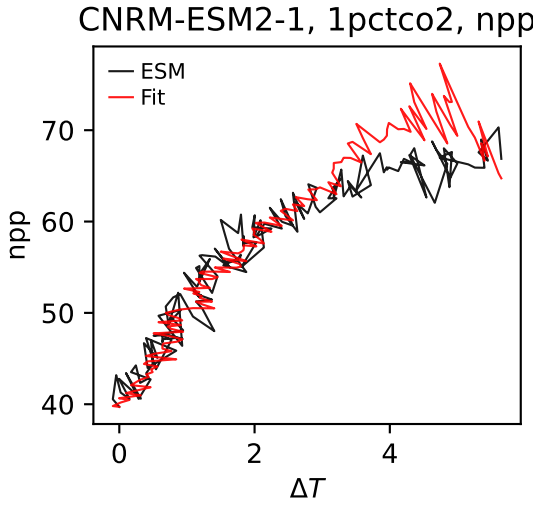

CNRM-ESM2-1, 1pctco2, sres
ESM-Fit
sres, ESM - FIT
c_atm

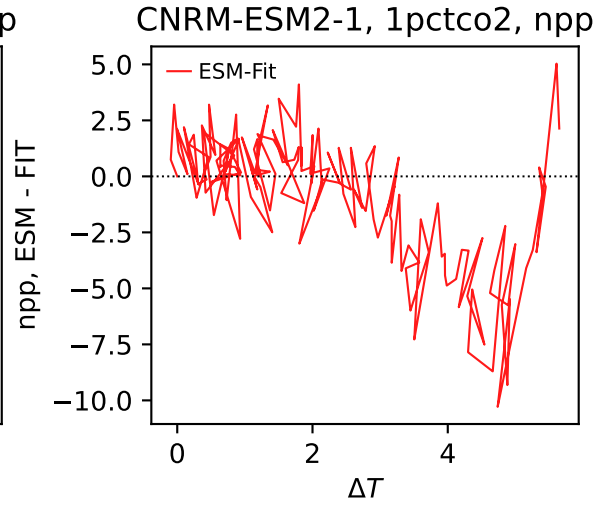

CNRM-ESM2-1, 1pctco2, sres, ln(MSE/SIGMA)
(0.0545, 0.0200, -0.1450, 79.4809)
CNRM-ESM2-1
sres_ste
sres_sts
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
42
36
30
24
18
12
6
0

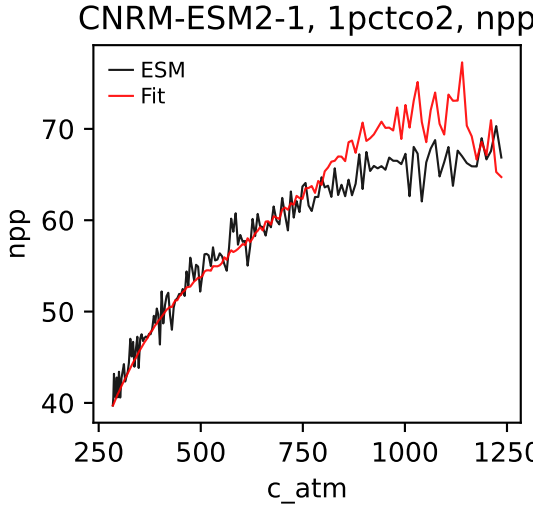

CNRM-ESM2-1, 1pctco2, sres, ln(MSE/SIGMA)
(0.0545, 0.0200, -0.1450, 79.4809)
2000
1750
1500
1250
1000
750
500
250
0
sres_c_half
−1
0
1
2
3
4
sres_lt
CNRM-ESM2-1
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

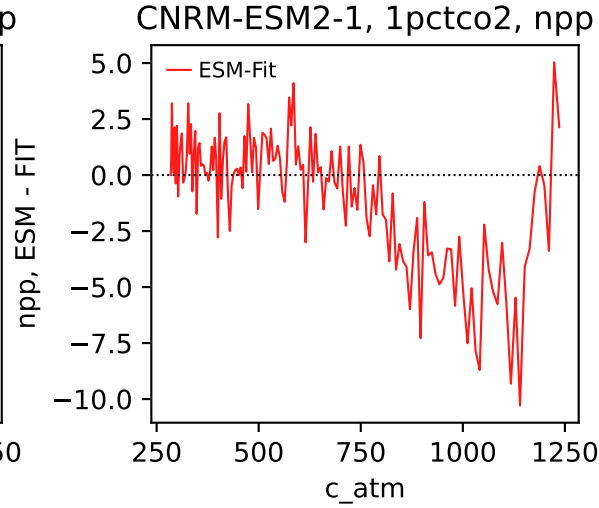

CNRM-ESM2-1, 1pctco2, npp
ESM
Fit
npp
Year

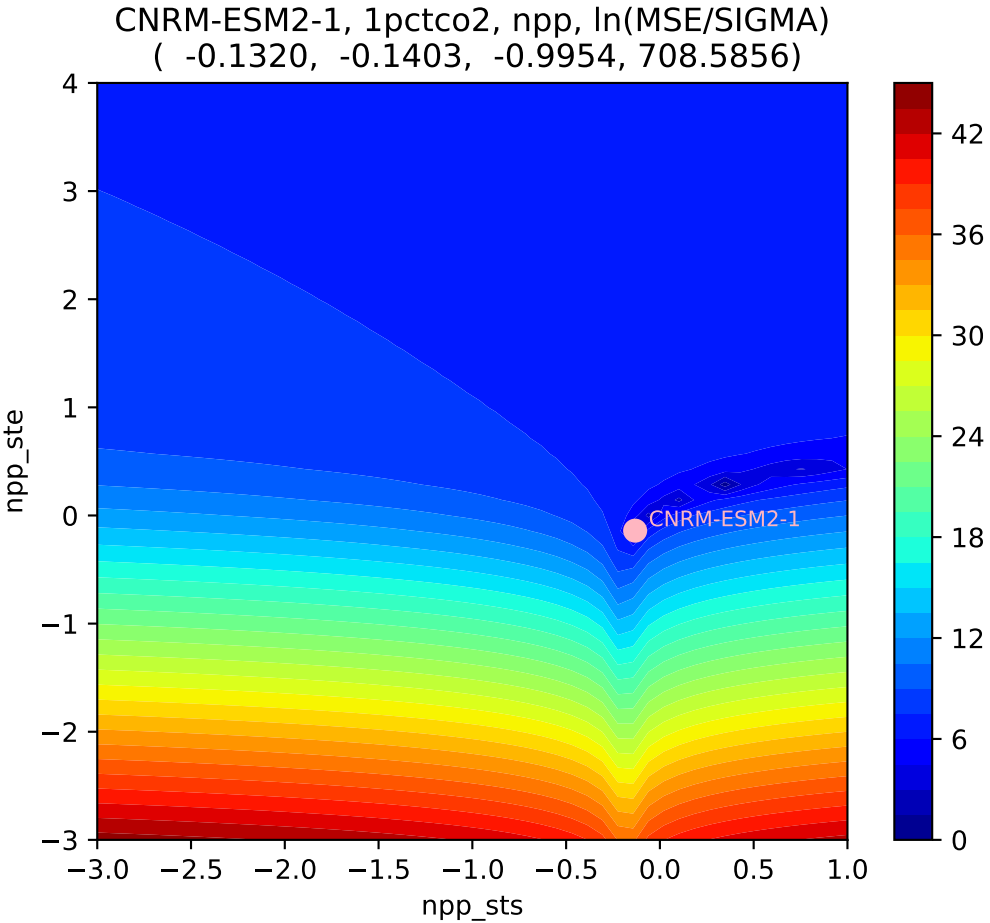

CNRM-ESM2-1, 1pctco2, npp
ESM-Fit
npp, ESM - FIT
Year

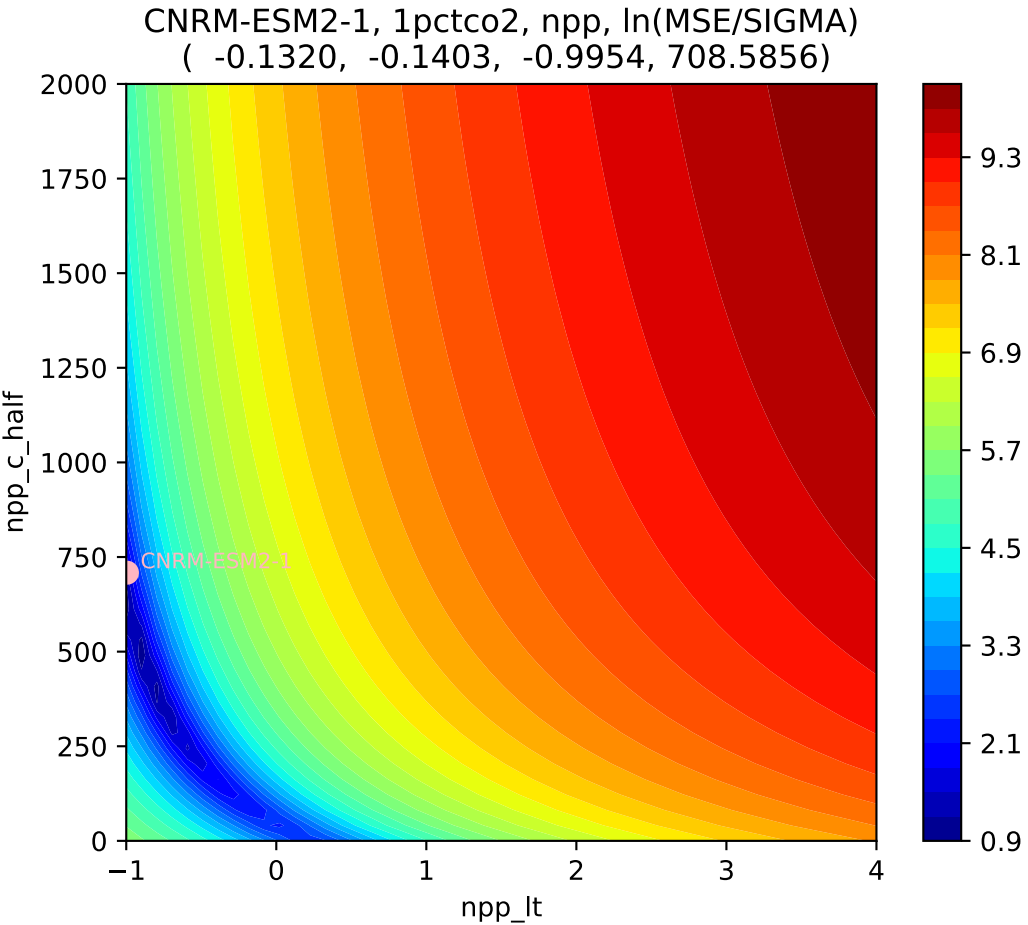

CNRM-ESM2-1, 1pctco2, npp
ESM
Fit
npp
ΔT

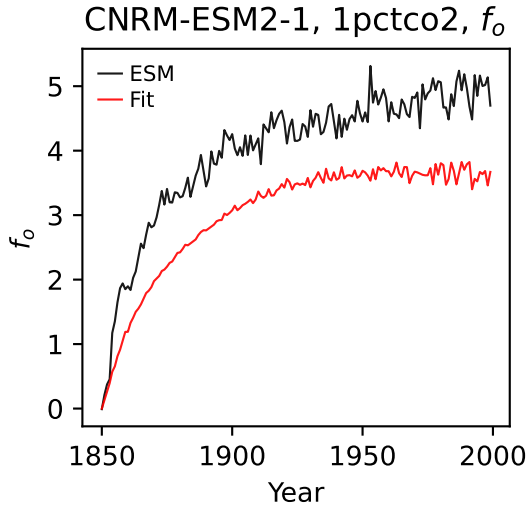

CNRM-ESM2-1, 1pctco2, npp
ESM-Fit
npp, ESM - FIT
ΔT

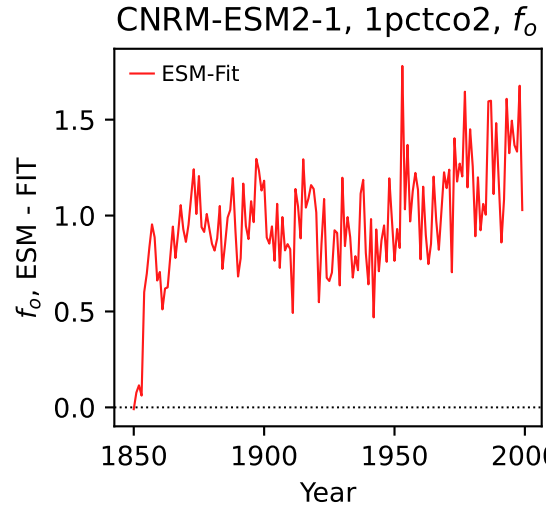

CNRM-ESM2-1, 1pctco2, npp
ESM
Fit
npp
c_atm

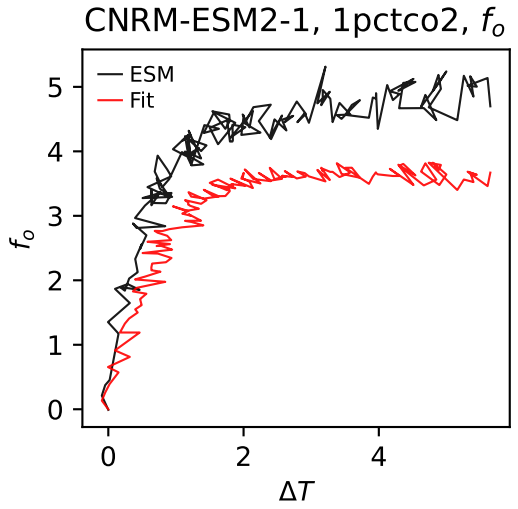

CNRM-ESM2-1, 1pctco2, npp
ESM-Fit
npp, ESM - FIT
c_atm

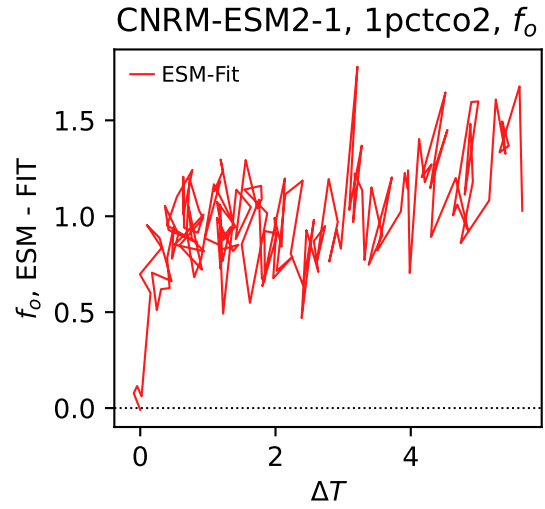

CNRM-ESM2-1, 1pctco2, npp, ln(MSE/SIGMA)
(-0.1320, -0.1403, -0.9954, 708.5856)
CNRM-ESM2-1
npp_ste
npp_sts
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
42
36
30
24
18
12
6
0

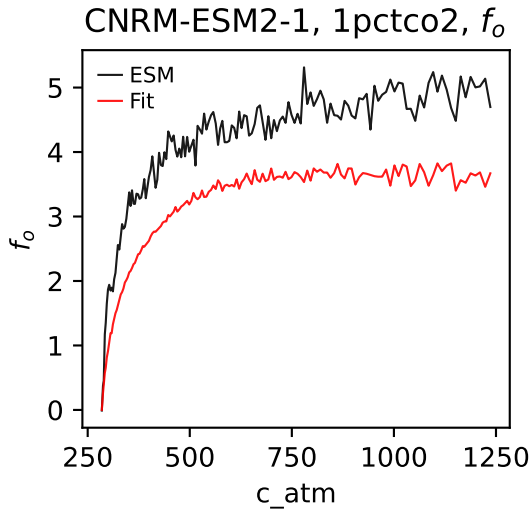

CNRM-ESM2-1, 1pctco2, npp, ln(MSE/SIGMA)
(-0.1320, -0.1403, -0.9954, 708.5856)
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
CNRM-ESM2-1
−1
0
1
2
3
4
npp_lt
9.3
8.1
6.9
5.7
4.5
3.3
2.1
0.9

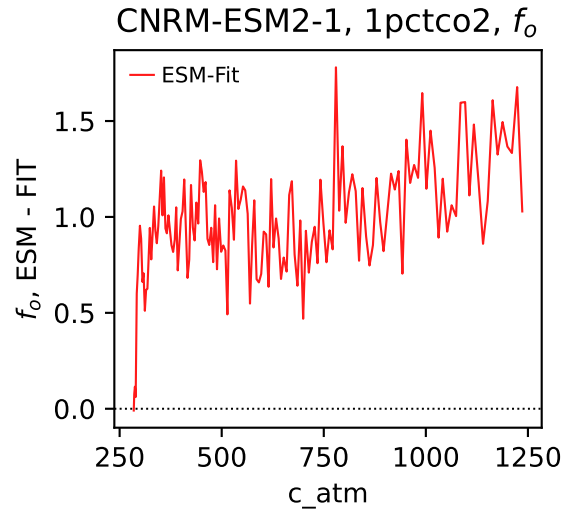

CNRM-ESM2-1, 1pctco2, f_o
ESM
Fit
f_o
Year

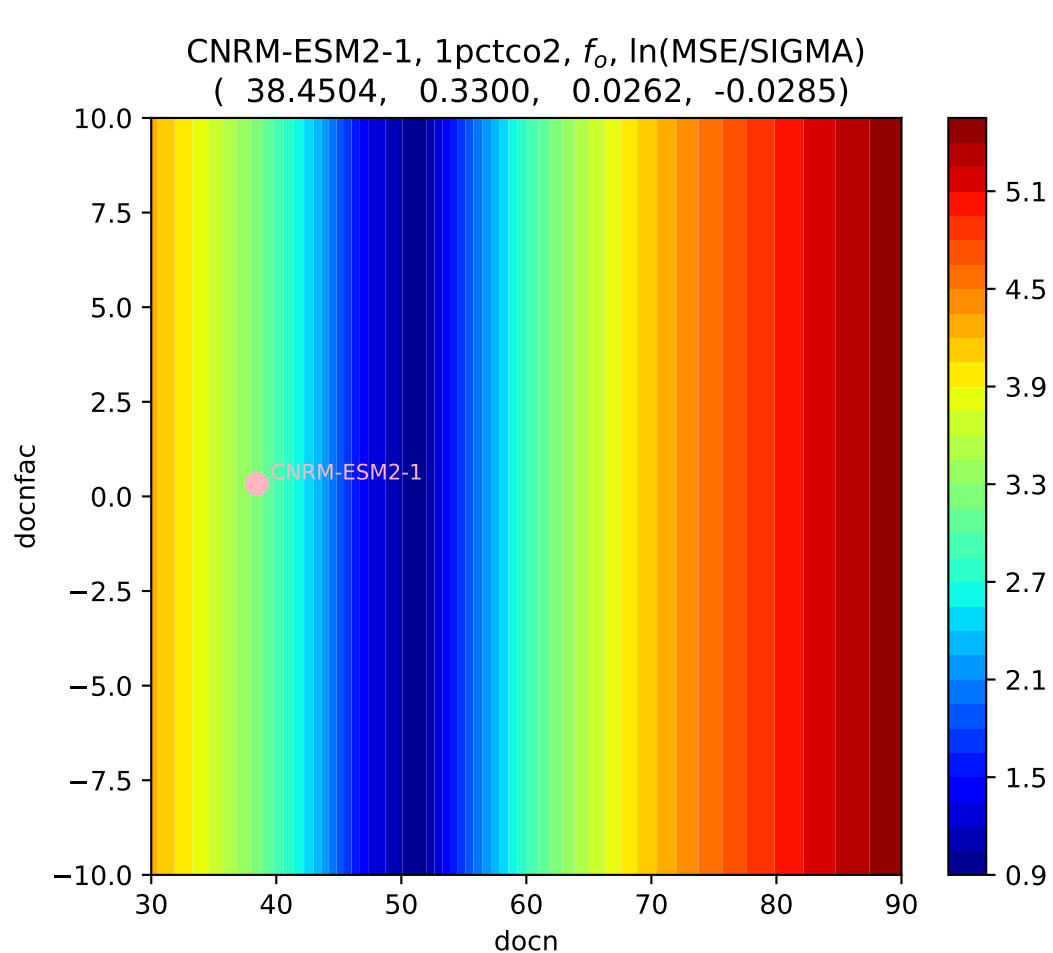

CNRM-ESM2-1, 1pctco2, f_o
ESM-Fit
f_o, ESM - FIT
Year

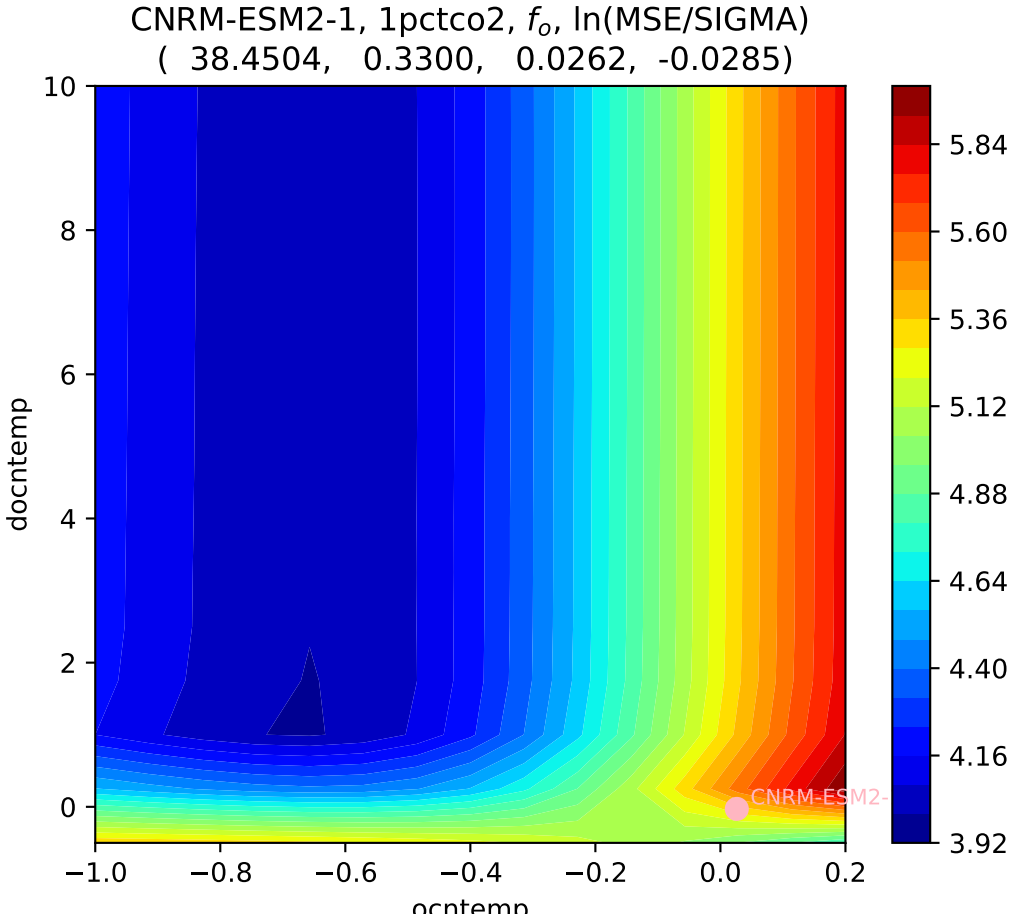

CNRM-ESM2-1, 1pctco2, f_o
ESM
Fit
f_o
ΔT


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)
(38.4504, 0.3300, 0.0262, -0.0285)
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
5.1
4.5
3.9
3.3
2.7
2.1
1.5
0.9


CNRM-ESM2-1, 1pctco2, f_o, ln(MSE/SIGMA)
(38.4504, 0.3300, 0.0262, -0.0285)
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
5.84
5.60
5.36
5.12
4.88
4.64
4.40
4.16
3.92
CNRM-ESM2-