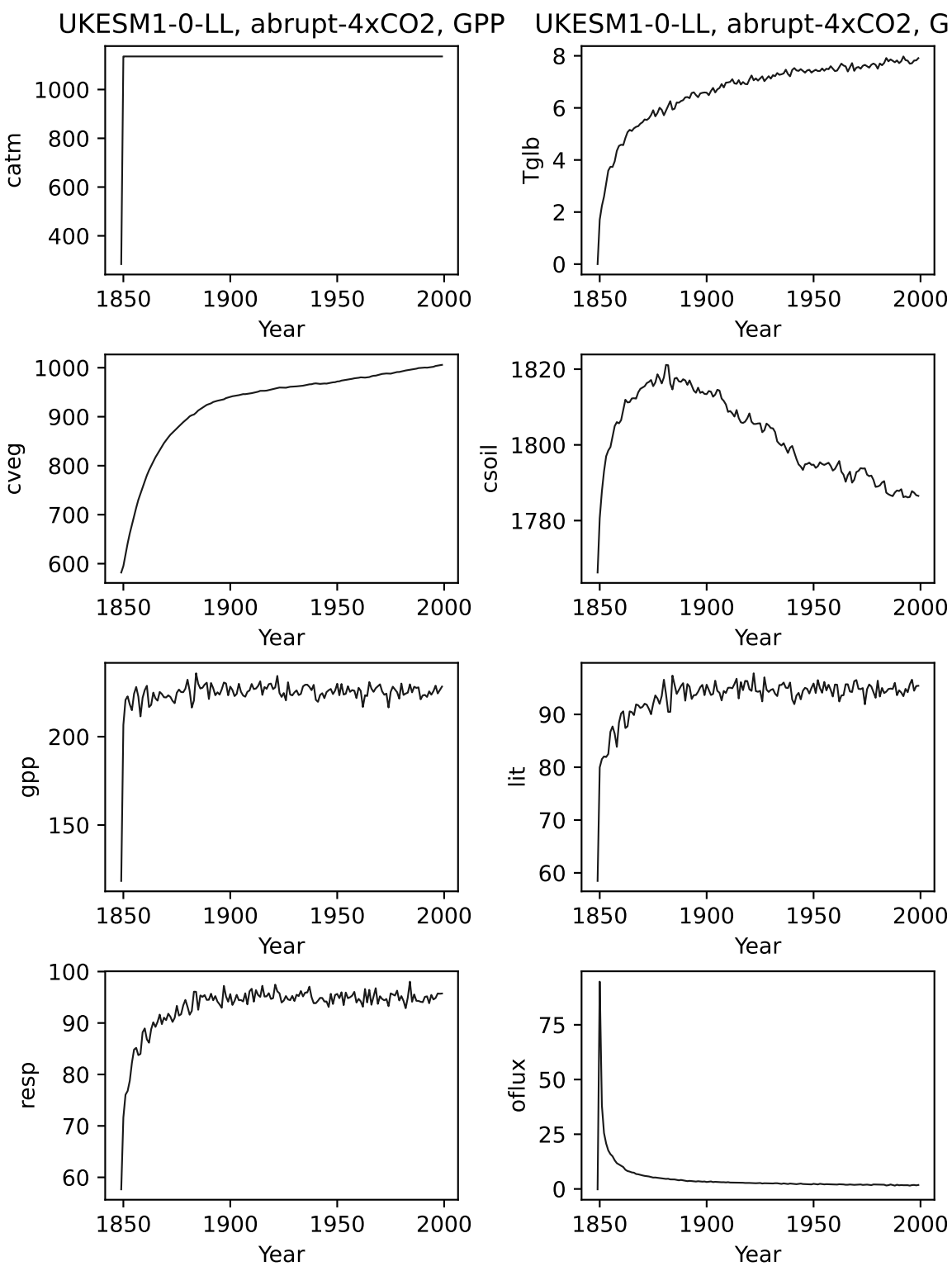
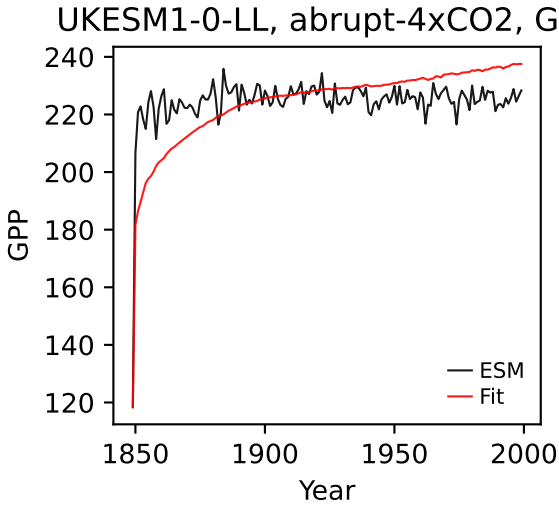
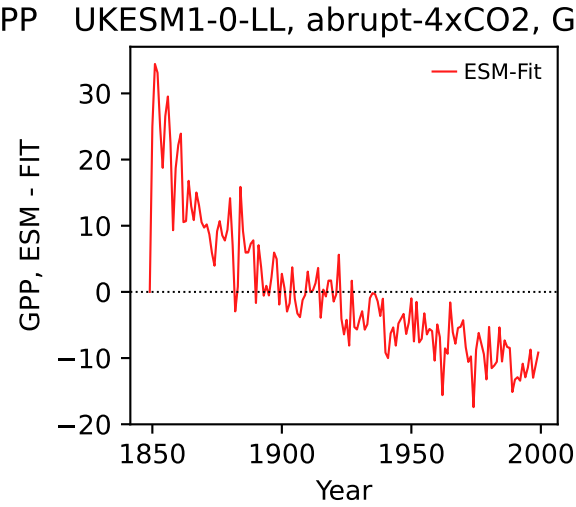
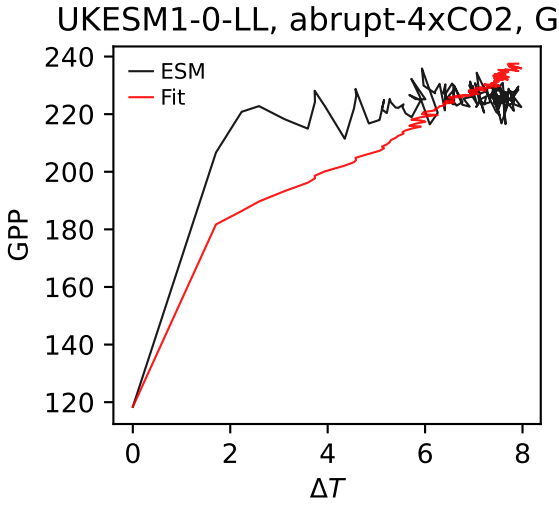
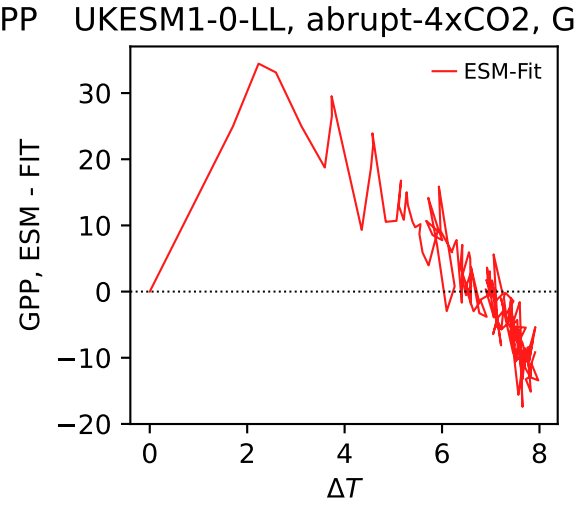
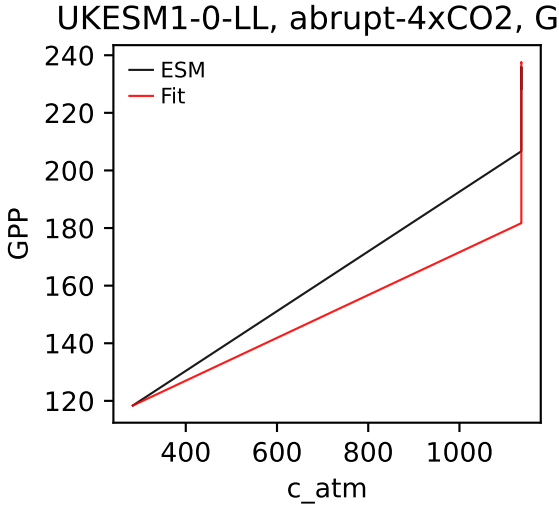

UKESM1-0-LL, abrupt-4xCO2, GPP
UKESM1-0-LL, abrupt-4xCO2, GP
catm
Tglb
cveg
csoil
gpp
lit
resp
oflux
Year
1850
1900
1950
2000

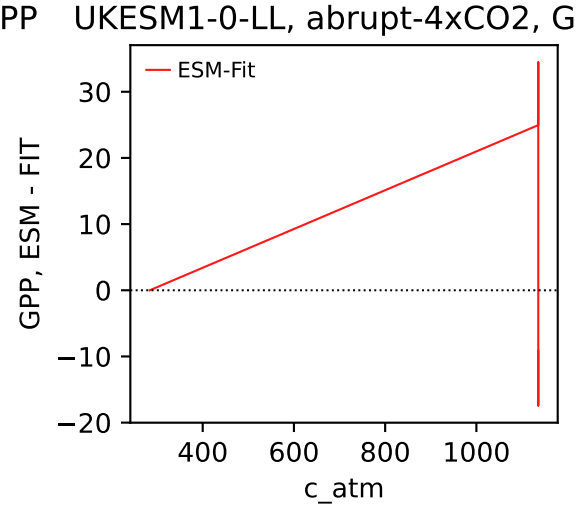

UKESM1-0-LL, abrupt-4xCO2, GPP
GPP
Year
ESM
Fit

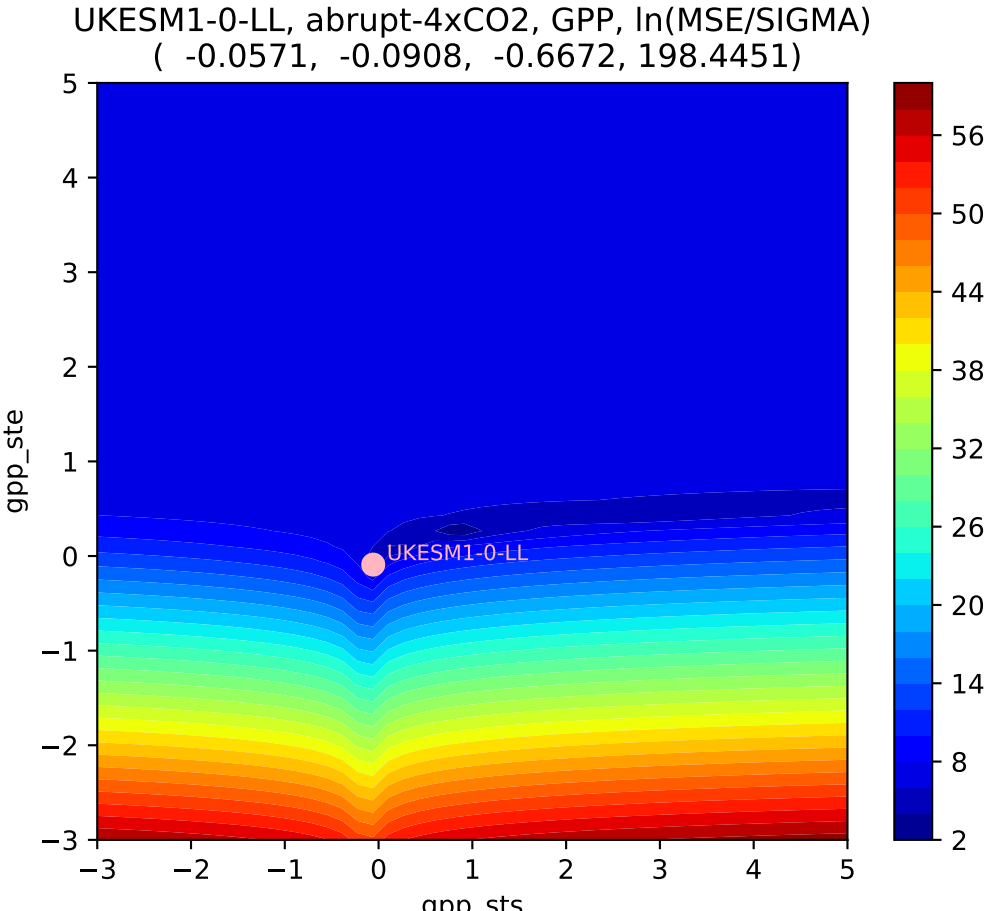

UKESM1-0-LL, abrupt-4xCO2, GP
GPP, ESM - FIT
Year
ESM-Fit

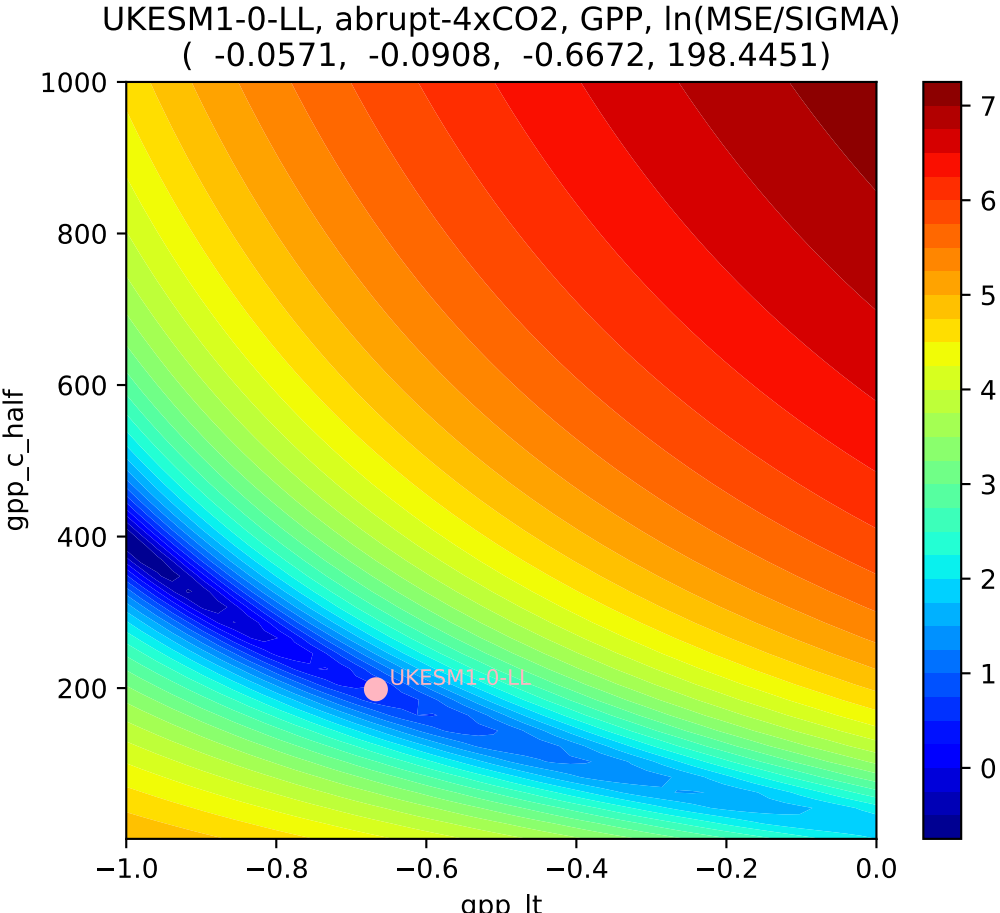

UKESM1-0-LL, abrupt-4xCO2, GPP
GPP
ΔT
ESM
Fit

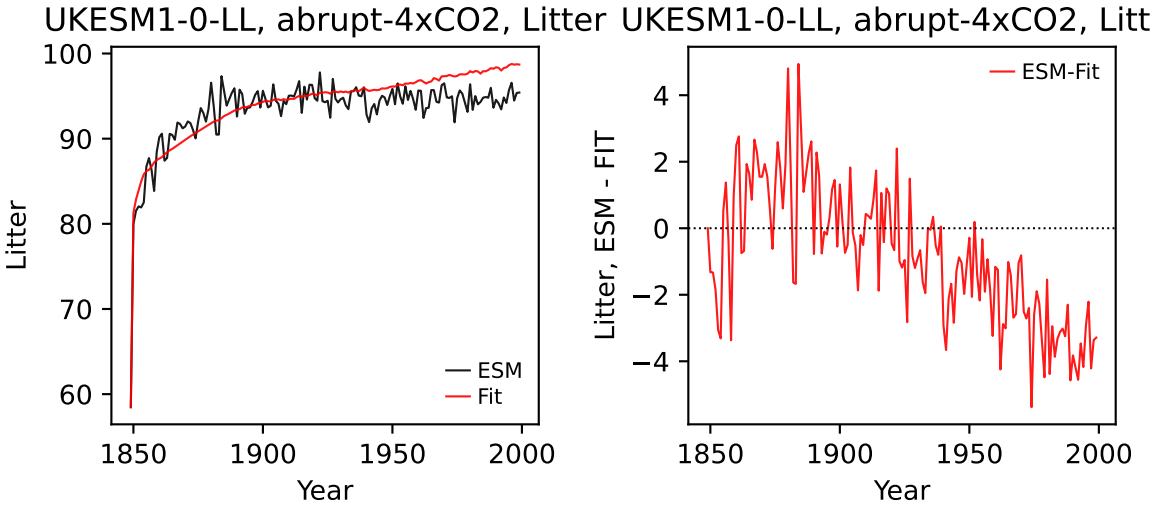

UKESM1-0-LL, abrupt-4xCO2, GP
GPP, ESM - FIT
ΔT
ESM-Fit

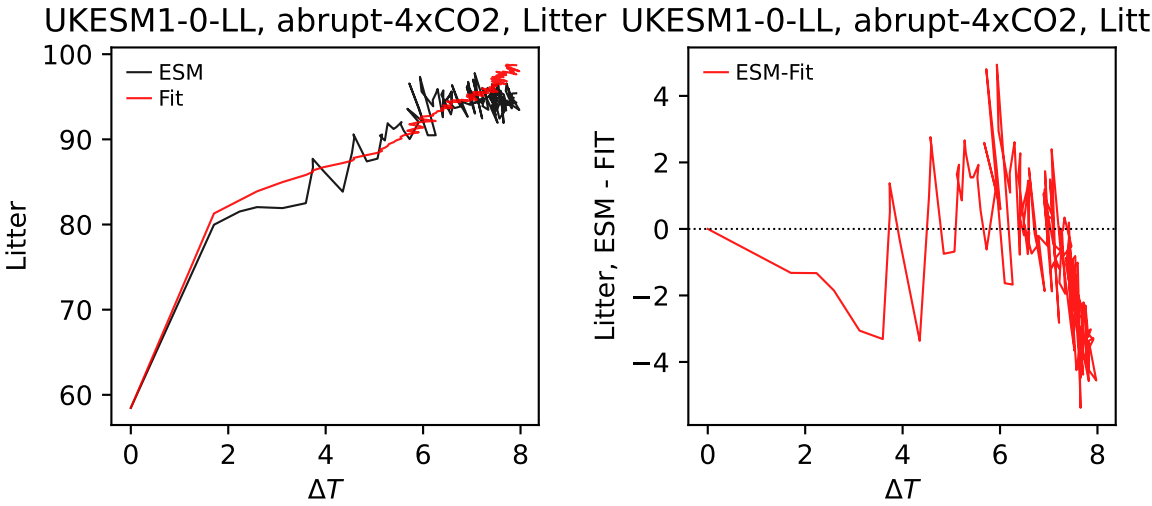

UKESM1-0-LL, abrupt-4xCO2, GPP
GPP
c_atm
ESM
Fit

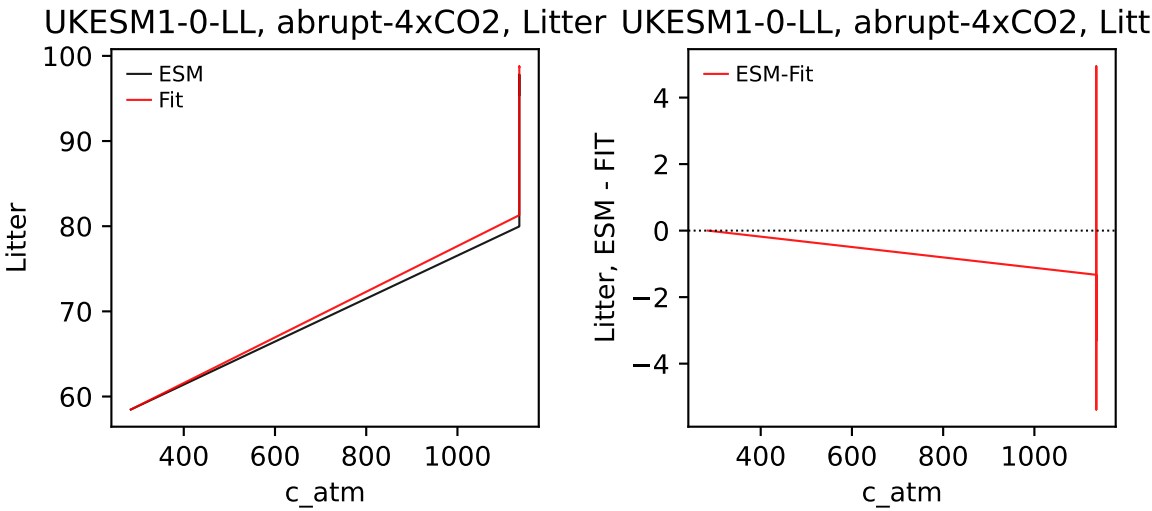

UKESM1-0-LL, abrupt-4xCO2, GP
GPP, ESM - FIT
c_atm
ESM-Fit

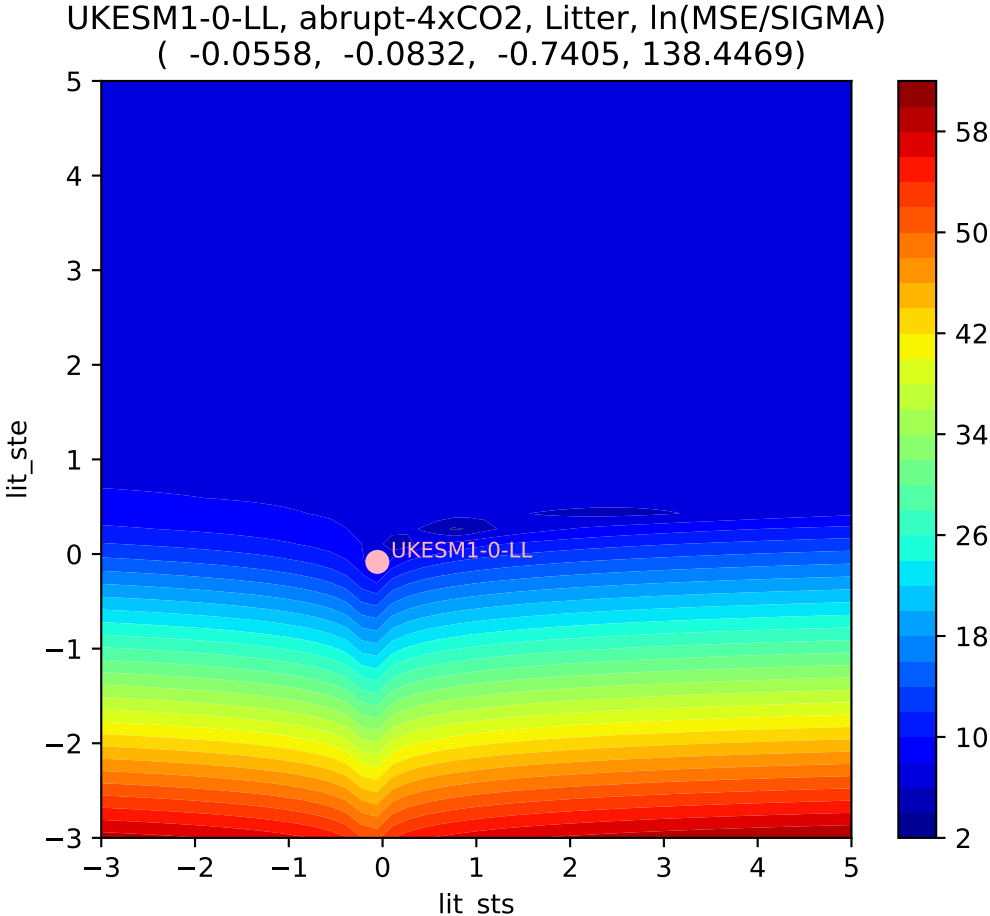

UKESM1-0-LL, abrupt-4xCO2, GPP, ln(MSE/SIGMA)
(-0.0571, -0.0908, -0.6672, 198.4451)
gpp_ste
gpp_sts
UKESM1-0-LL
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
56
50
44
38
32
26
20
14
8
2

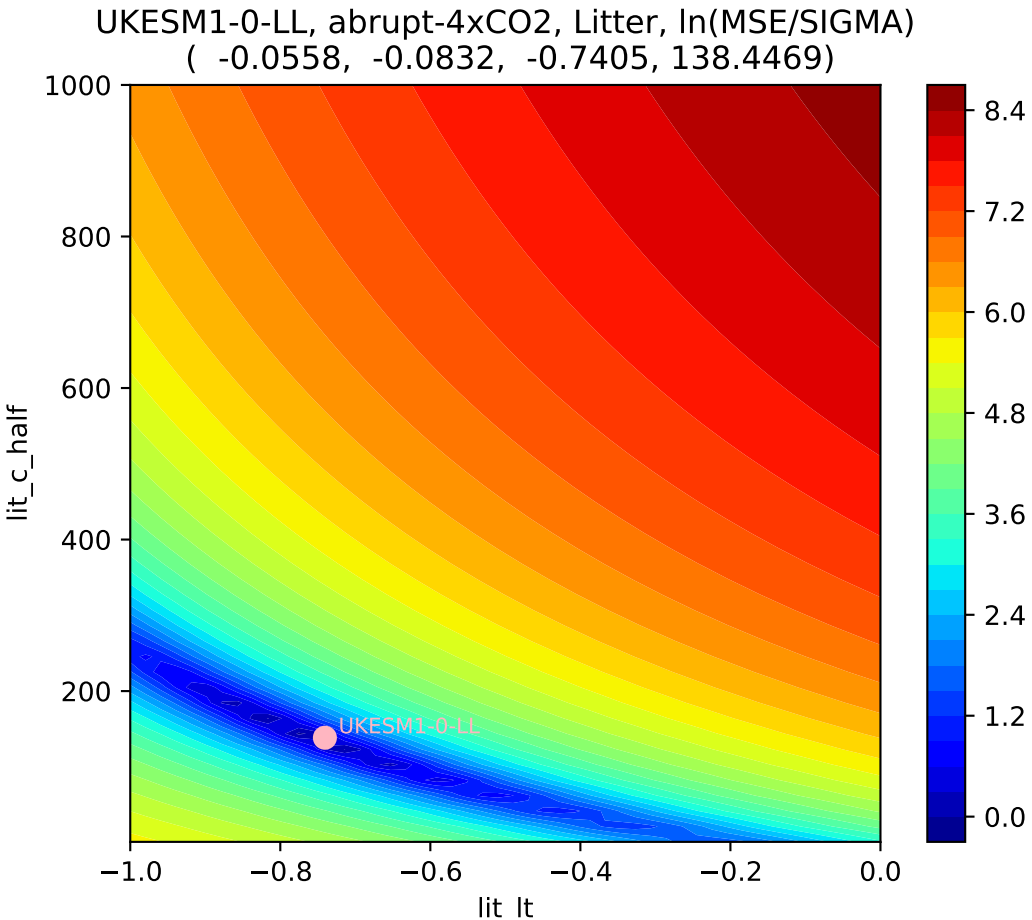

UKESM1-0-LL, abrupt-4xCO2, GPP, ln(MSE/SIGMA)
(-0.0571, -0.0908, -0.6672, 198.4451)
1000
800
600
400
200
gpp_c_half
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
gpp_lt
UKESM1-0-LL
7
6
5
4
3
2
1
0

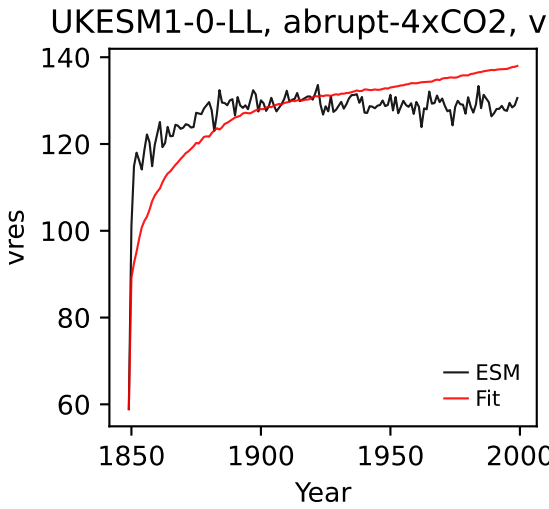

UKESM1-0-LL, abrupt-4xCO2, Litter
UKESM1-0-LL, abrupt-4xCO2, Litt
Litter
Year
ESM
Fit
Litter, ESM - FIT
ESM-Fit

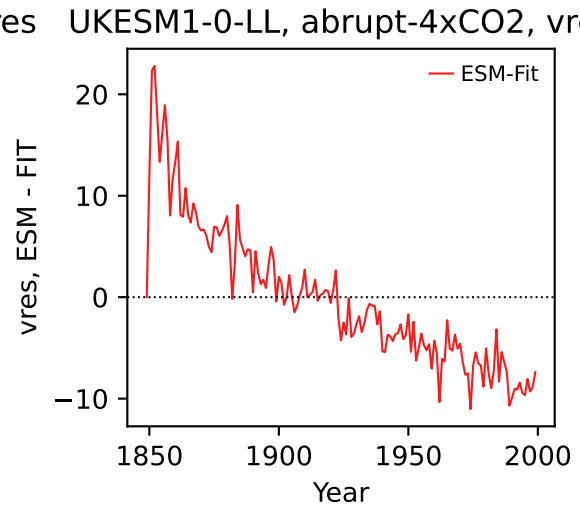

UKESM1-0-LL, abrupt-4xCO2, Litter
UKESM1-0-LL, abrupt-4xCO2, Litt
Litter
ΔT
ESM
Fit
Litter, ESM - FIT
ESM-Fit

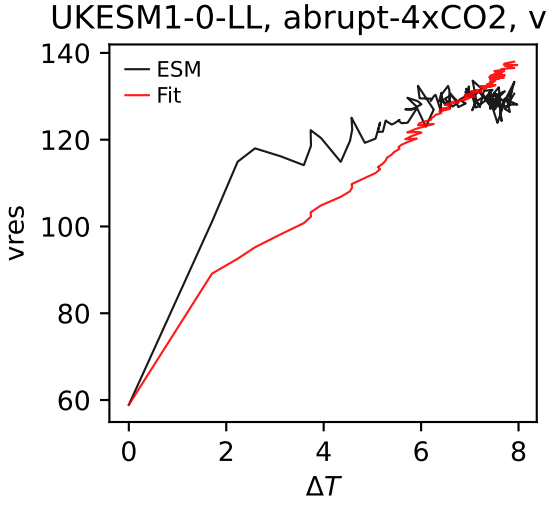

UKESM1-0-LL, abrupt-4xCO2, Litter
UKESM1-0-LL, abrupt-4xCO2, Litt
Litter
c_atm
ESM
Fit
Litter, ESM - FIT
ESM-Fit

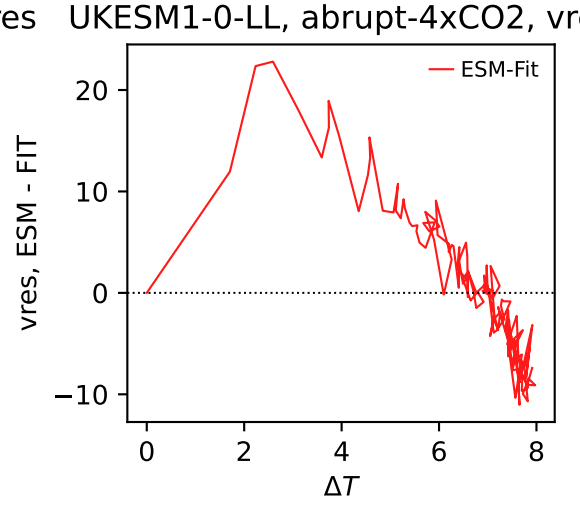

UKESM1-0-LL, abrupt-4xCO2, Litter, ln(MSE/SIGMA)
(-0.0558, -0.0832, -0.7405, 138.4469)
lit_ste
lit_sts
UKESM1-0-LL
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
58
50
42
34
26
18
10
2

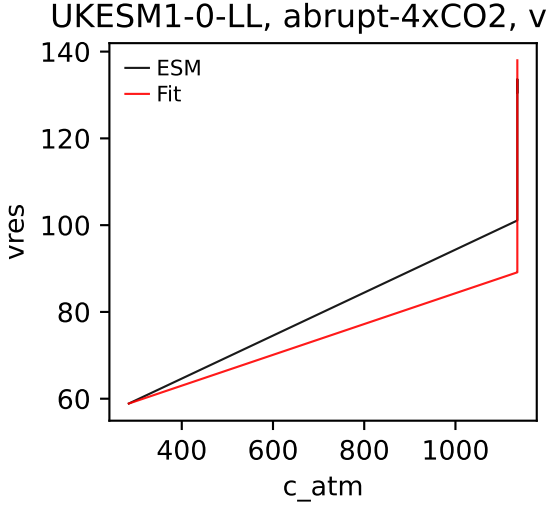

UKESM1-0-LL, abrupt-4xCO2, Litter, ln(MSE/SIGMA)
(-0.0558, -0.0832, -0.7405, 138.4469)
lit_c_half
lit_lt
1000
800
600
400
200
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0
UKESM1-0-LL

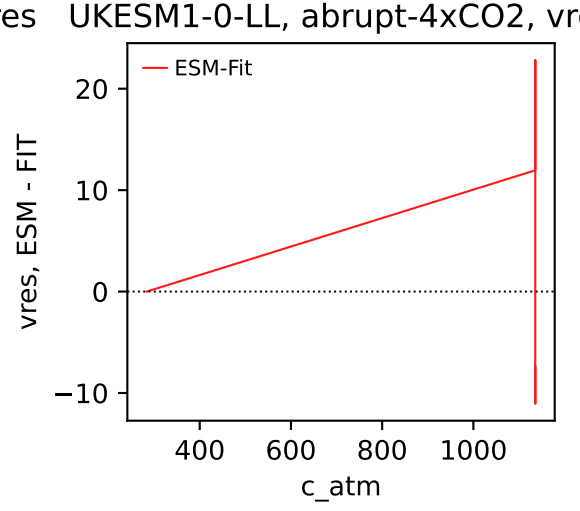

UKESM1-0-LL, abrupt-4xCO2, vres
vres
Year
ESM
Fit

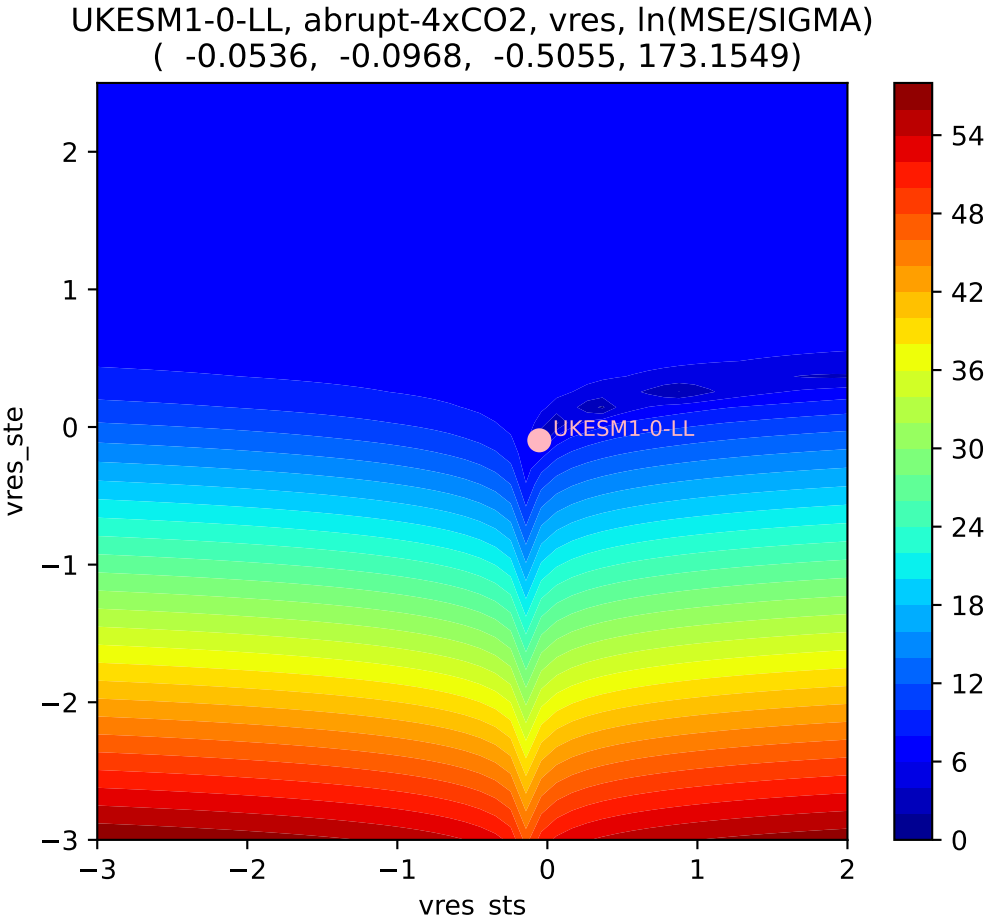

UKESM1-0-LL, abrupt-4xCO2, vres
vres, ESM - FIT
Year
ESM-Fit

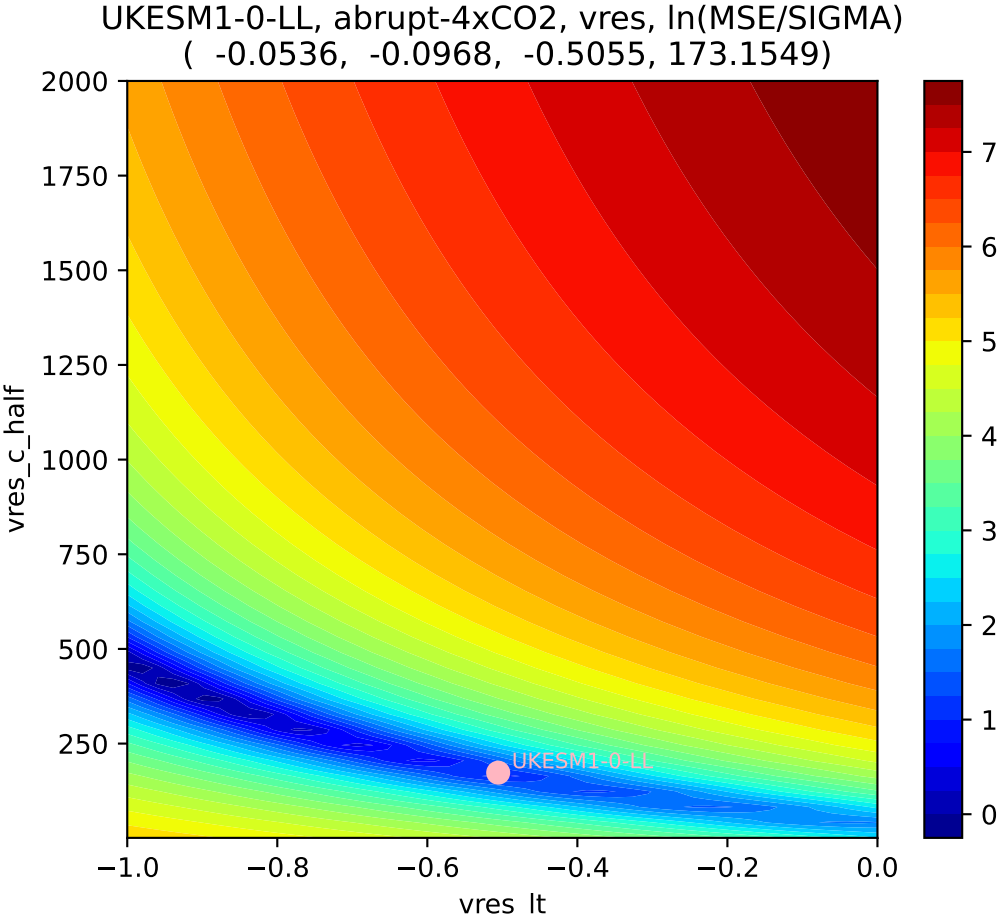

UKESM1-0-LL, abrupt-4xCO2, vres
vres
ΔT
ESM
Fit

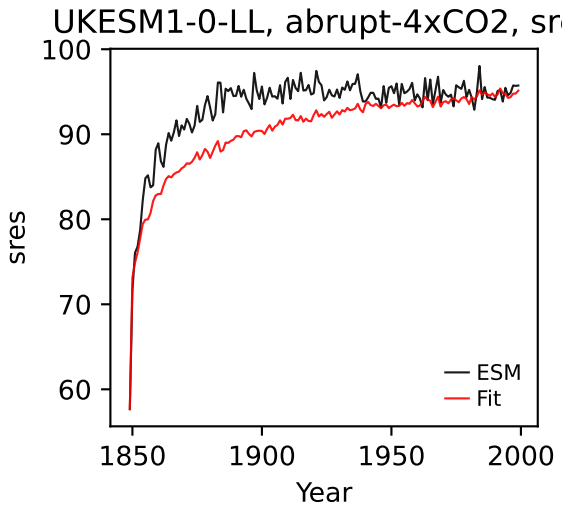

UKESM1-0-LL, abrupt-4xCO2, vres
vres, ESM - FIT
ΔT
ESM-Fit

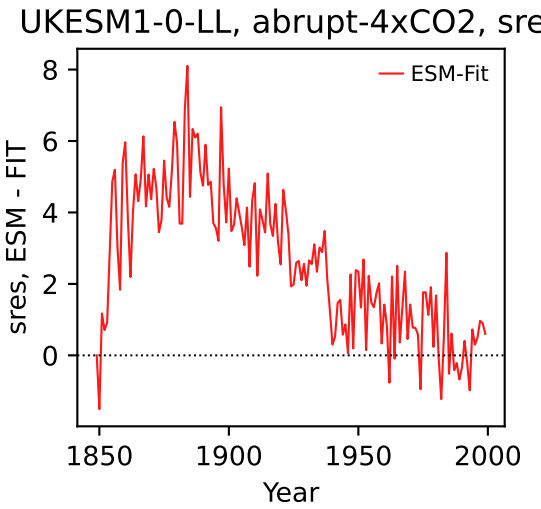

UKESM1-0-LL, abrupt-4xCO2, vres
vres
c_atm
ESM
Fit

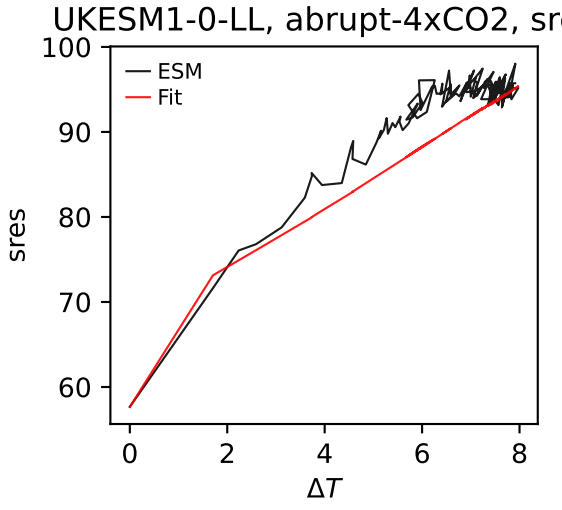

UKESM1-0-LL, abrupt-4xCO2, vres
vres, ESM - FIT
c_atm
ESM-Fit

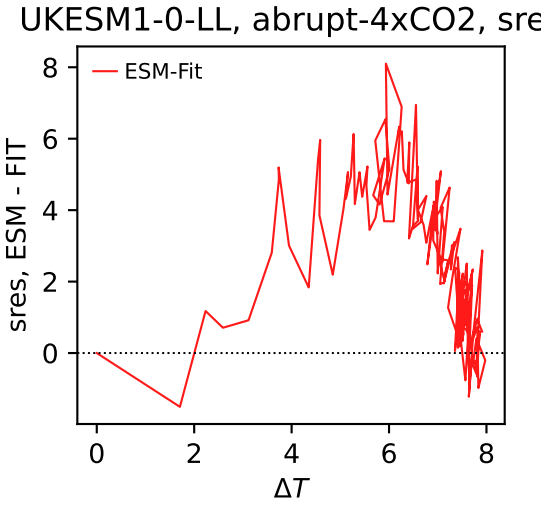

UKESM1-0-LL, abrupt-4xCO2, vres, ln(MSE/SIGMA)
(-0.0536, -0.0968, -0.5055, 173.1549)
UKESM1-0-LL
vres_ste
vres_sts
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
54
48
42
36
30
24
18
12
6
0

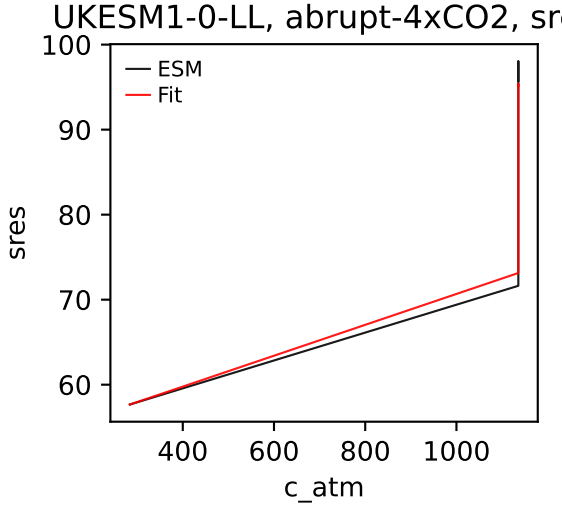

UKESM1-0-LL, abrupt-4xCO2, vres, ln(MSE/SIGMA)
(-0.0536, -0.0968, -0.5055, 173.1549)
vres_c_half
vres_lt
2000
1750
1500
1250
1000
750
500
250
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
UKESM1-0-LL
7
6
5
4
3
2
1
0

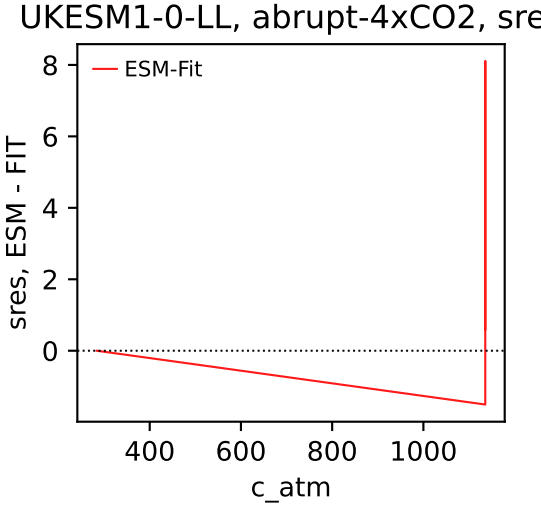

UKESM1-0-LL, abrupt-4xCO2, sres
sres
Year
ESM
Fit

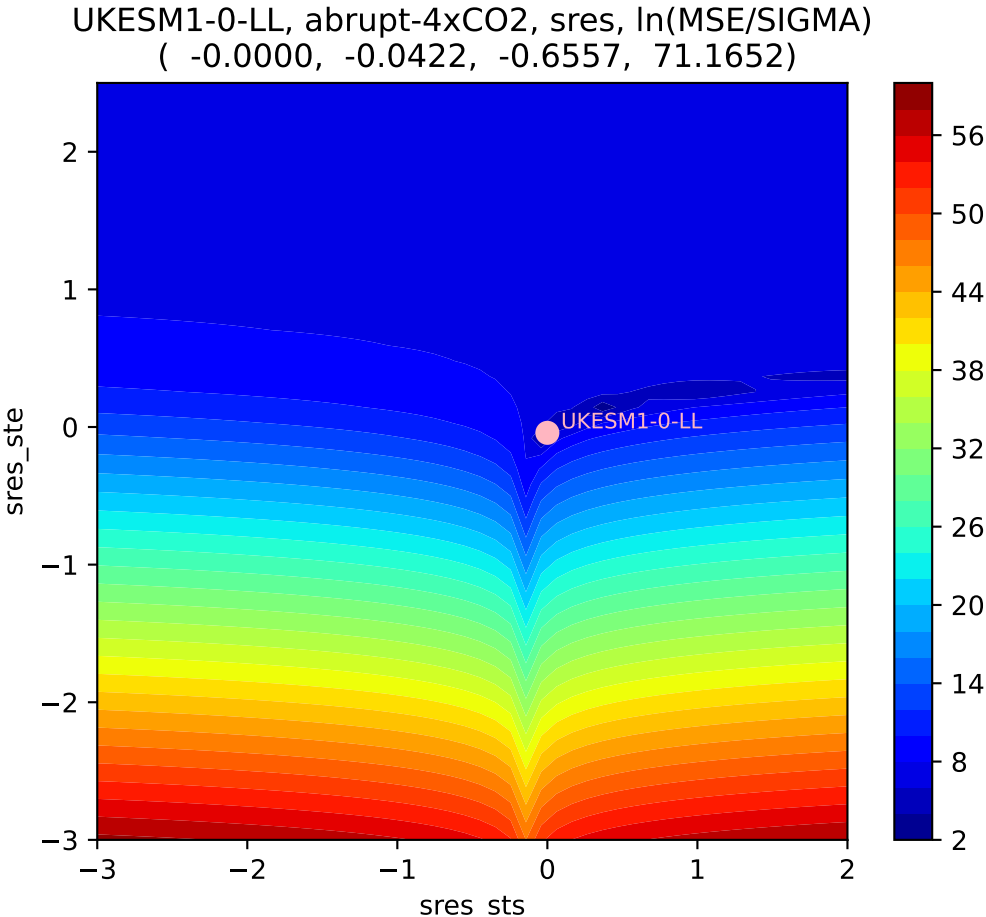

UKESM1-0-LL, abrupt-4xCO2, sre
sres, ESM - FIT
Year
ESM-Fit

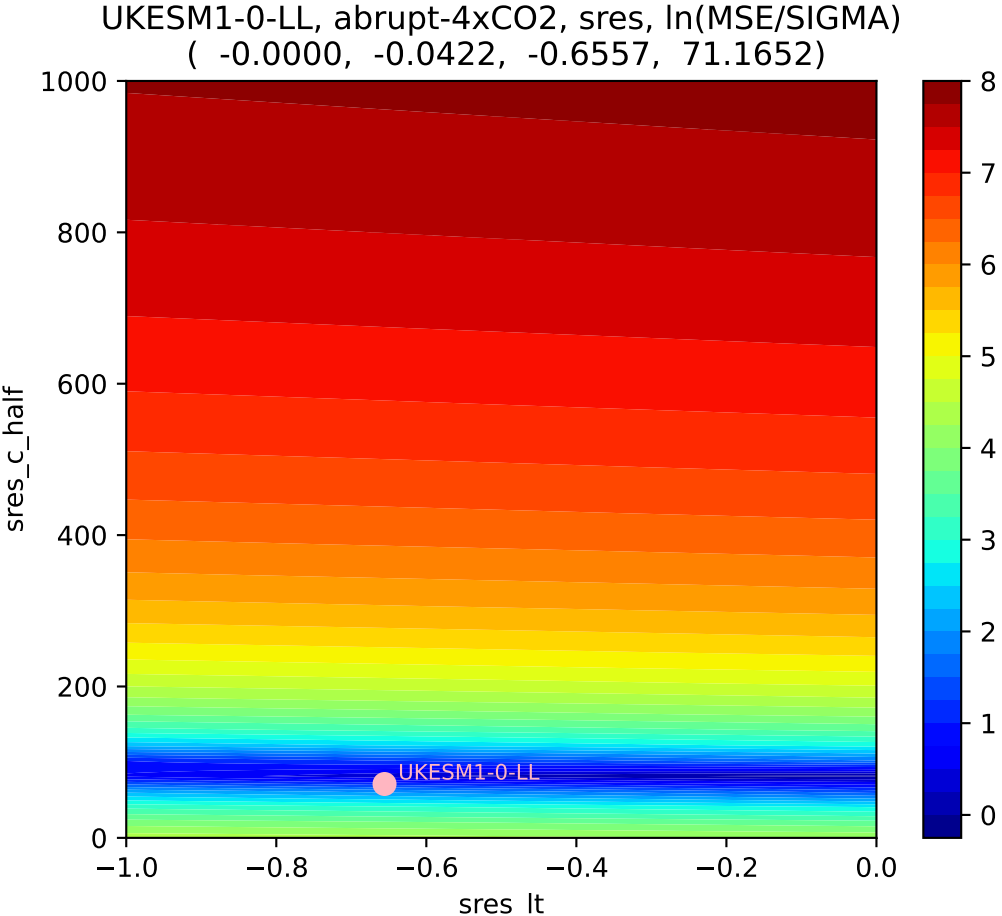

UKESM1-0-LL, abrupt-4xCO2, sres
sres
ΔT
ESM
Fit

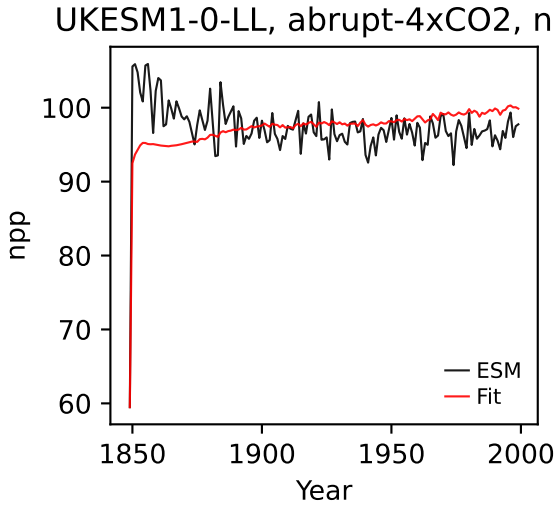

UKESM1-0-LL, abrupt-4xCO2, sre
sres, ESM - FIT
ΔT
ESM-Fit

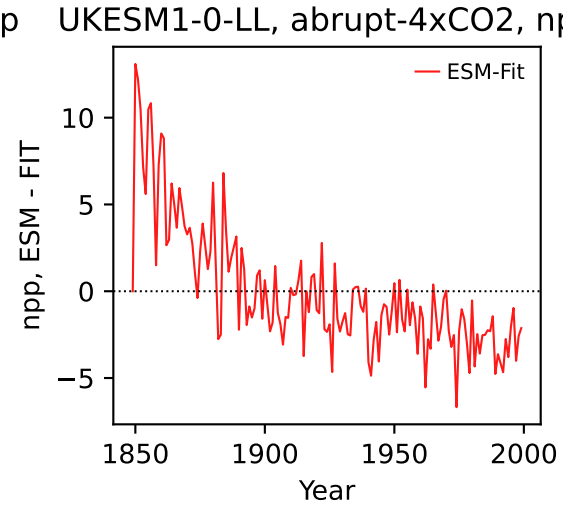

UKESM1-0-LL, abrupt-4xCO2, sres
sres
c_atm
ESM
Fit

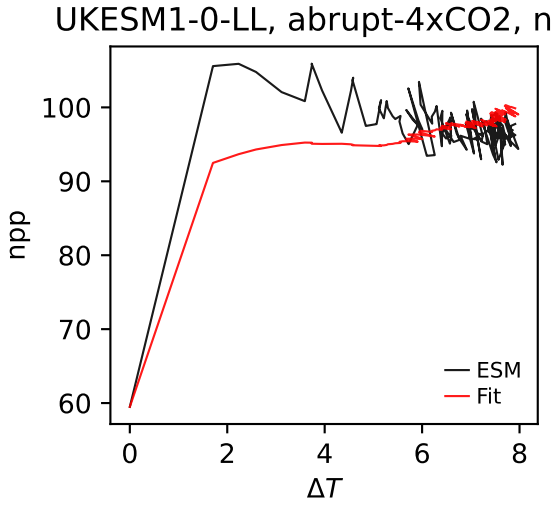

UKESM1-0-LL, abrupt-4xCO2, sre
sres, ESM - FIT
c_atm
ESM-Fit

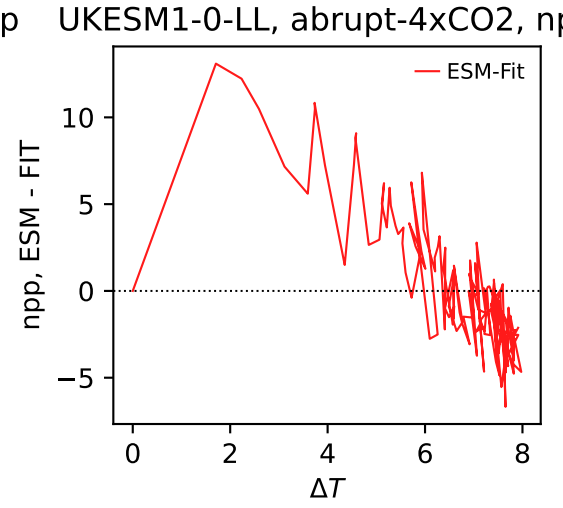

UKESM1-0-LL, abrupt-4xCO2, sres, ln(MSE/SIGMA)
(-0.0000, -0.0422, -0.6557, 71.1652)
UKESM1-0-LL
sres_ste
sres_sts
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
56
50
44
38
32
26
20
14
8
2

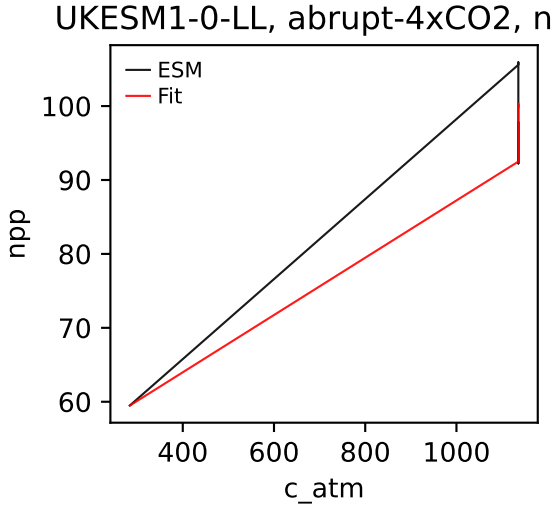

UKESM1-0-LL, abrupt-4xCO2, sres, ln(MSE/SIGMA)
(-0.0000, -0.0422, -0.6557, 71.1652)
sres_c_half
sres_lt
UKESM1-0-LL
1000
800
600
400
200
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
8
7
6
5
4
3
2
1
0

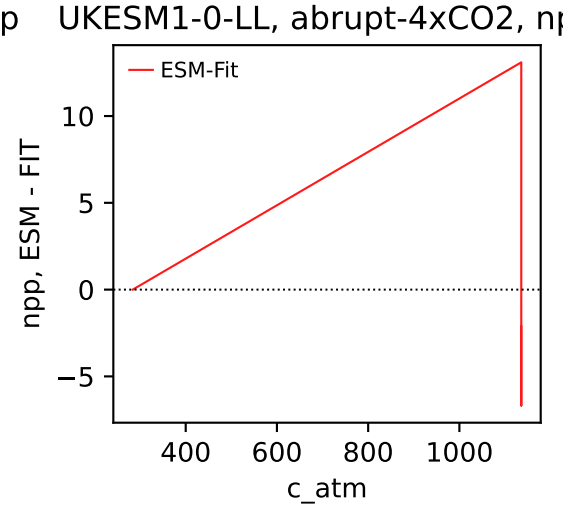

UKESM1-0-LL, abrupt-4xCO2, npp
npp
Year
ESM
Fit

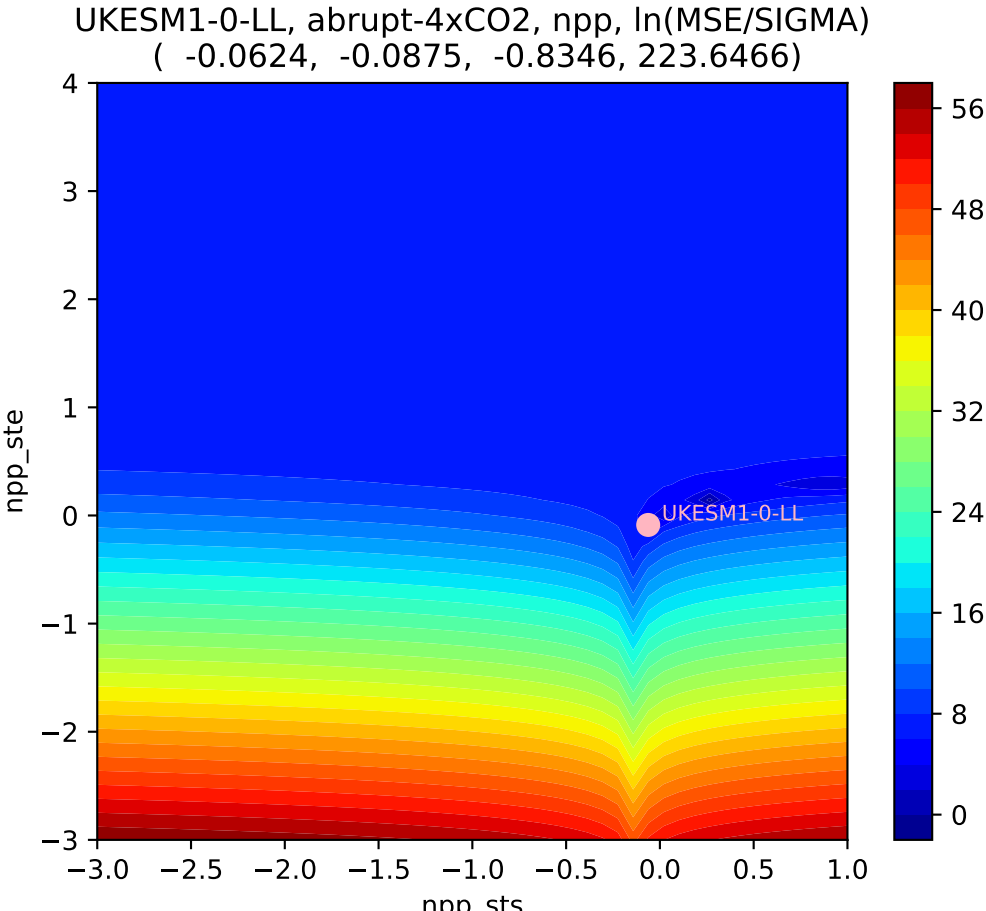

UKESM1-0-LL, abrupt-4xCO2, np
npp, ESM - FIT
Year
ESM-Fit

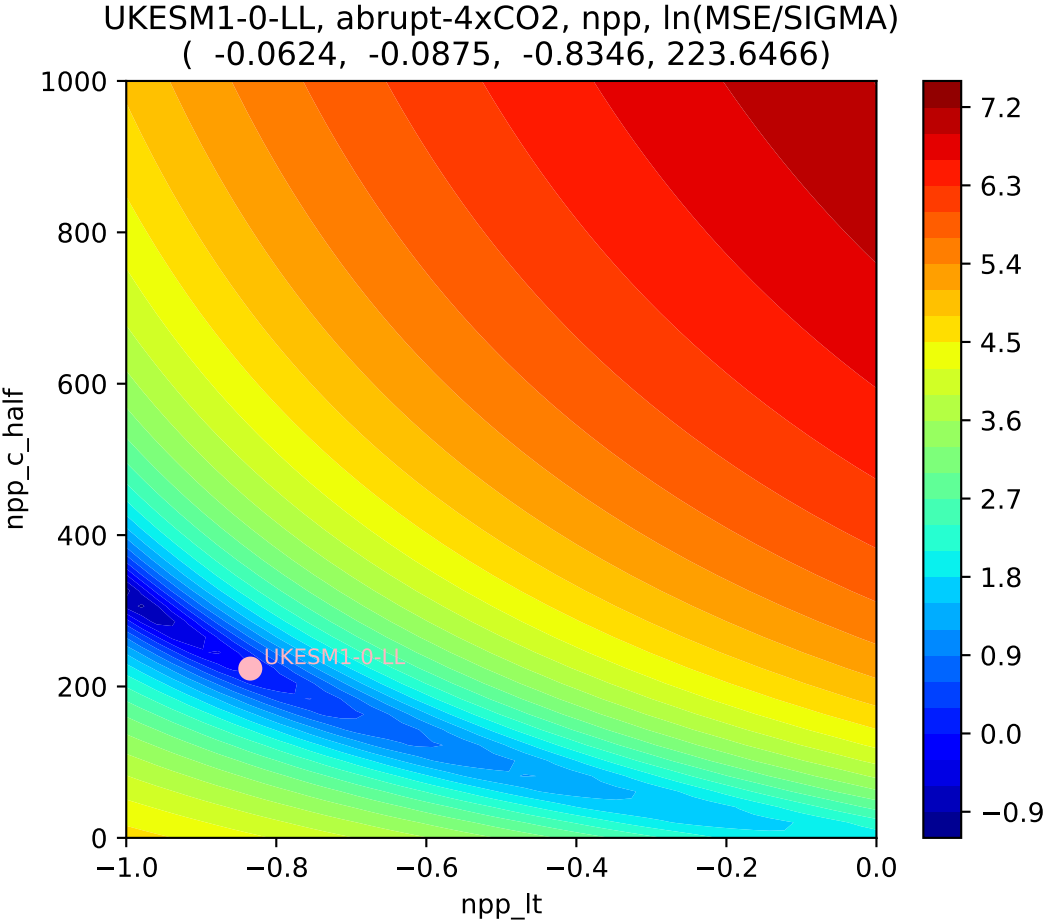

UKESM1-0-LL, abrupt-4xCO2, npp
npp
ΔT
ESM
Fit

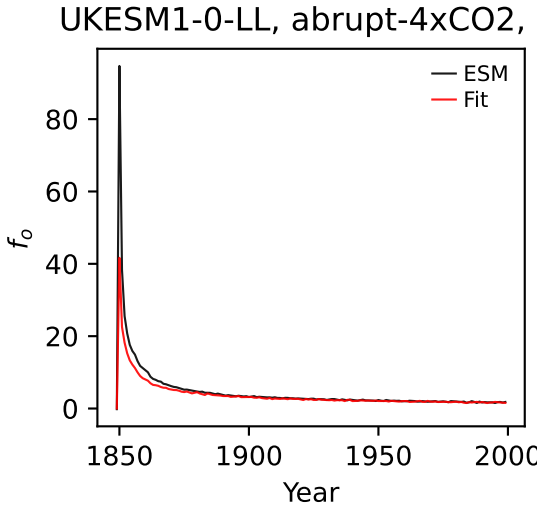

UKESM1-0-LL, abrupt-4xCO2, np
npp, ESM - FIT
ΔT
ESM-Fit

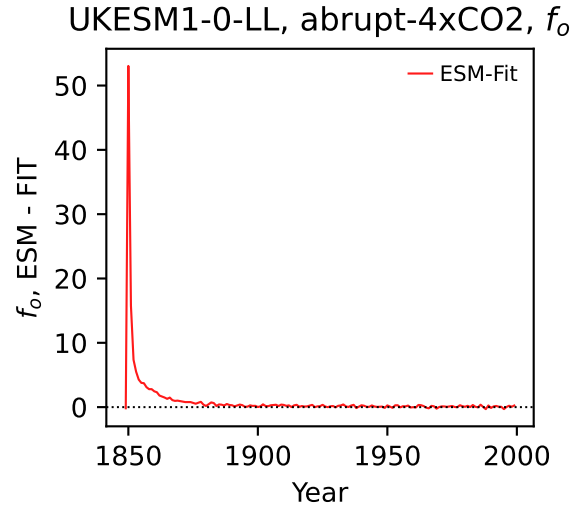

UKESM1-0-LL, abrupt-4xCO2, npp
npp
c_atm
ESM
Fit

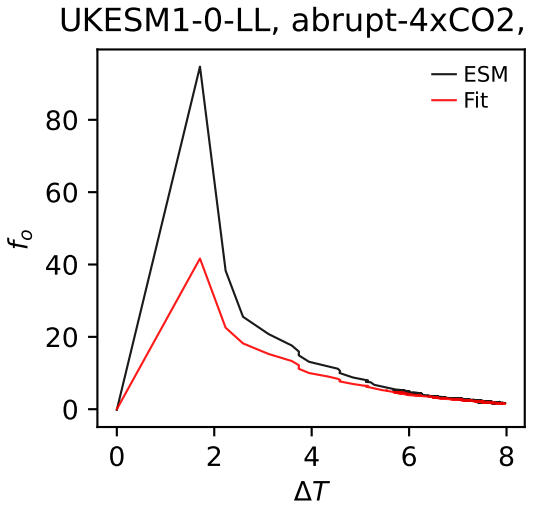

UKESM1-0-LL, abrupt-4xCO2, np
npp, ESM - FIT
c_atm
ESM-Fit

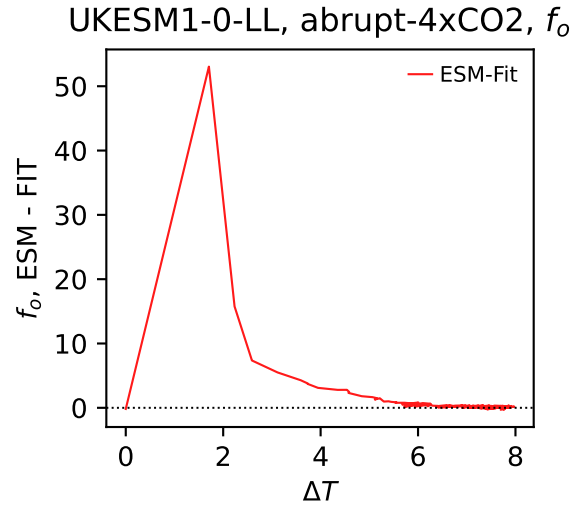

UKESM1-0-LL, abrupt-4xCO2, npp, ln(MSE/SIGMA)
(-0.0624, -0.0875, -0.8346, 223.6466)
UKESM1-0-LL
npp_ste
npp_sts
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
56
48
40
32
24
16
8
0

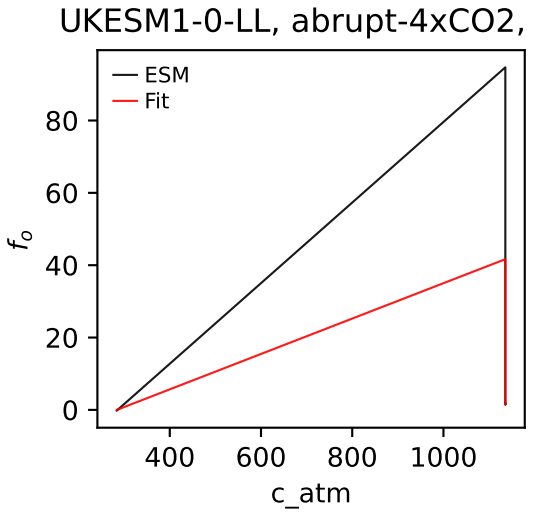

UKESM1-0-LL, abrupt-4xCO2, npp, ln(MSE/SIGMA)
(-0.0624, -0.0875, -0.8346, 223.6466)
1000
800
600
400
200
0
npp_c_half
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
npp_lt
UKESM1-0-LL
7.2
6.3
5.4
4.5
3.6
2.7
1.8
0.9
0.0
−0.9

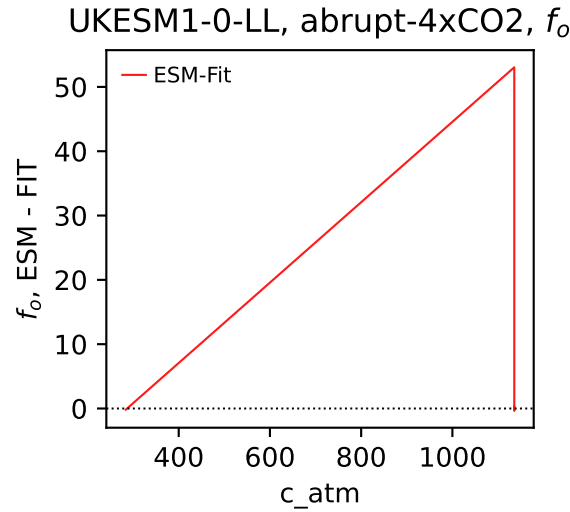

UKESM1-0-LL, abrupt-4xCO2, f_o
ESM
Fit
f_o
Year

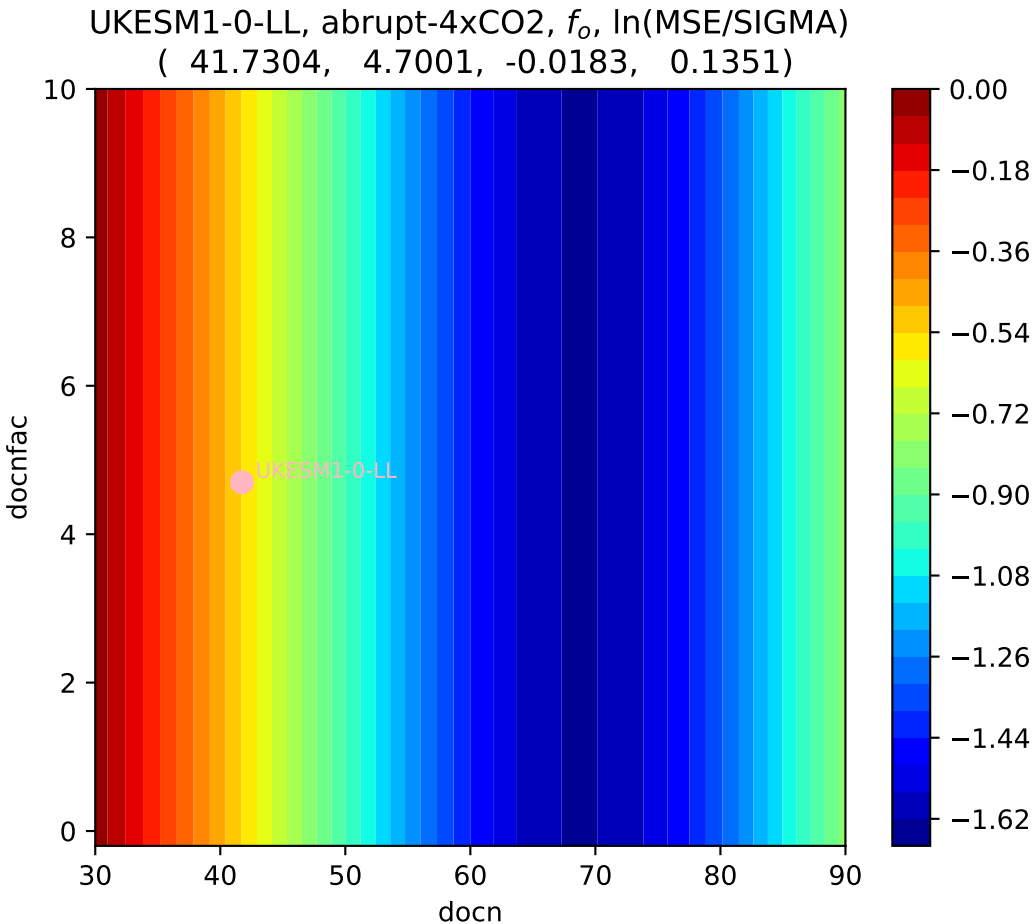

UKESM1-0-LL, abrupt-4xCO2, f_o
ESM-Fit
f_o, ESM - FIT
Year

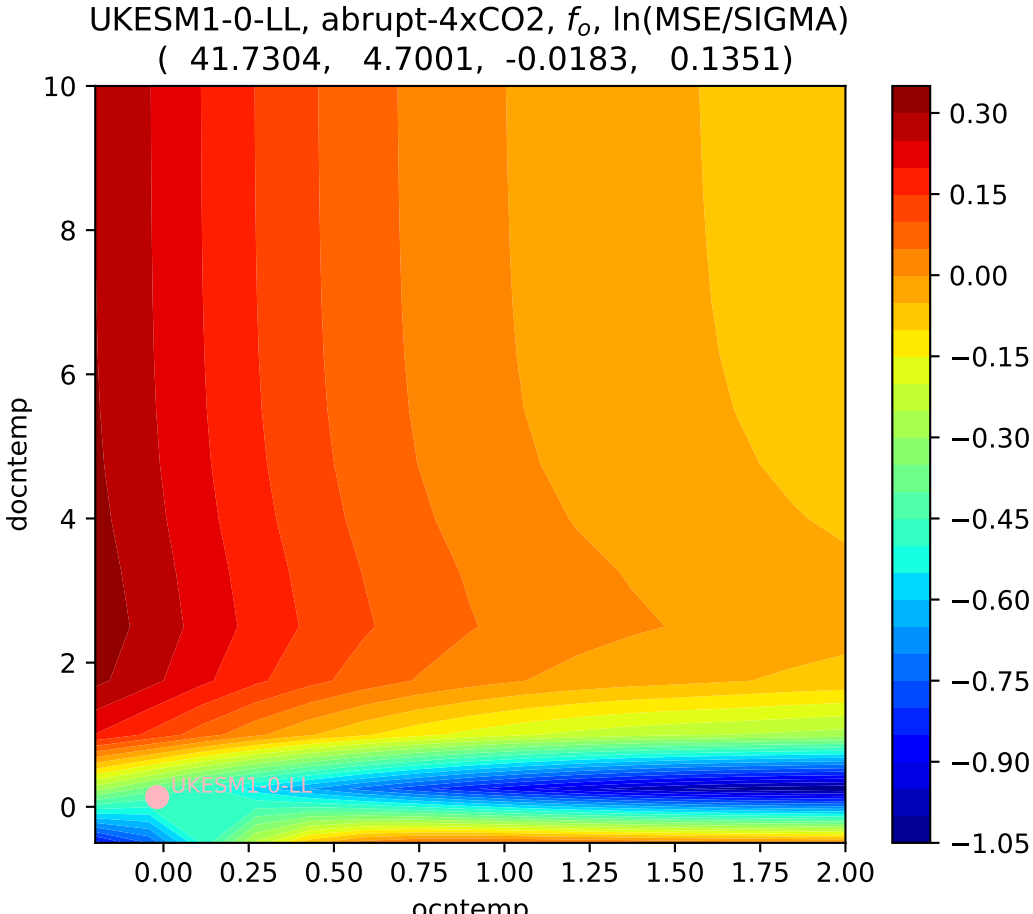

UKESM1-0-LL, abrupt-4xCO2, f_o
ESM
Fit
f_o
ΔT


UKESM1-0-LL, abrupt-4xCO2, f_o
ESM-Fit
f_o, ESM - FIT
ΔT


UKESM1-0-LL, abrupt-4xCO2, f_o
ESM
Fit
f_o
c_atm


UKESM1-0-LL, abrupt-4xCO2, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


UKESM1-0-LL, abrupt-4xCO2, f_o, ln(MSE/SIGMA)
(41.7304, 4.7001, -0.0183, 0.1351)
UKESM1-0-LL
docnfac
docn
0
2
4
6
8
10
30
40
50
60
70
80
90
0.00
−0.18
−0.36
−0.54
−0.72
−0.90
−1.08
−1.26
−1.44
−1.62


UKESM1-0-LL, abrupt-4xCO2, f_o, ln(MSE/SIGMA)
(41.7304, 4.7001, -0.0183, 0.1351)
docntemp
ocntemp
UKESM1-0-LL
0.30
0.15
0.00
−0.15
−0.30
−0.45
−0.60
−0.75
−0.90
−1.05