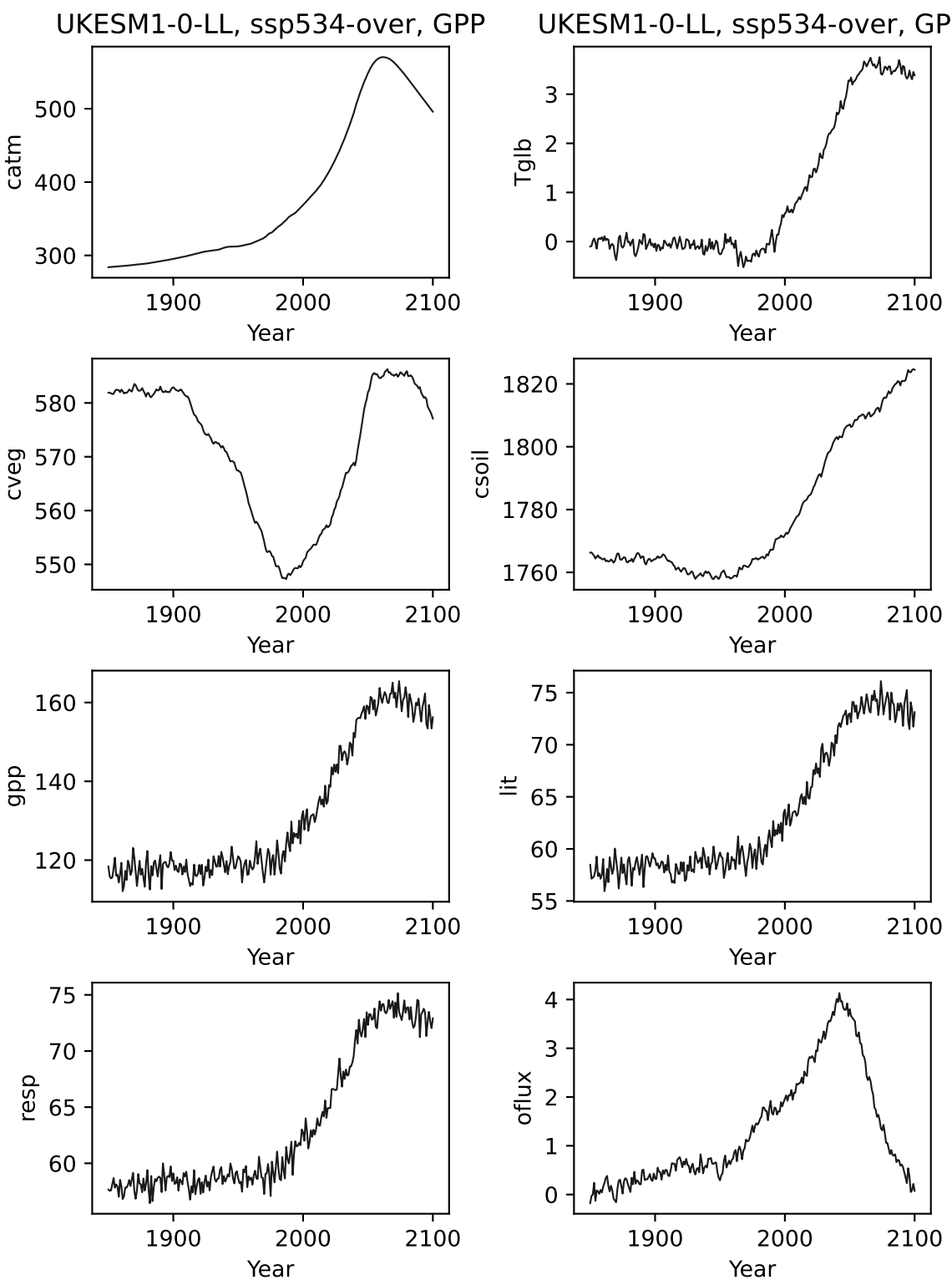
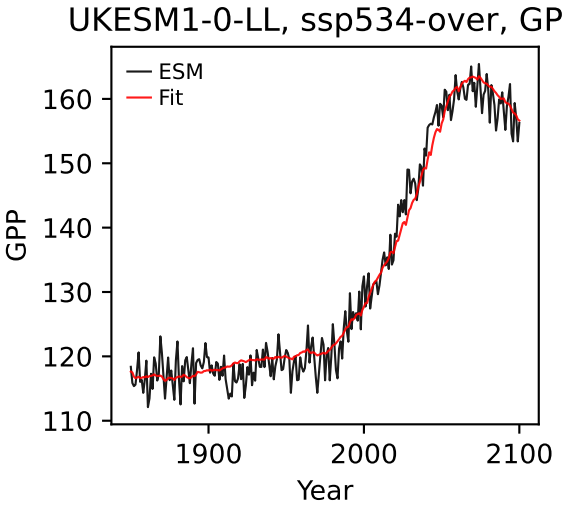
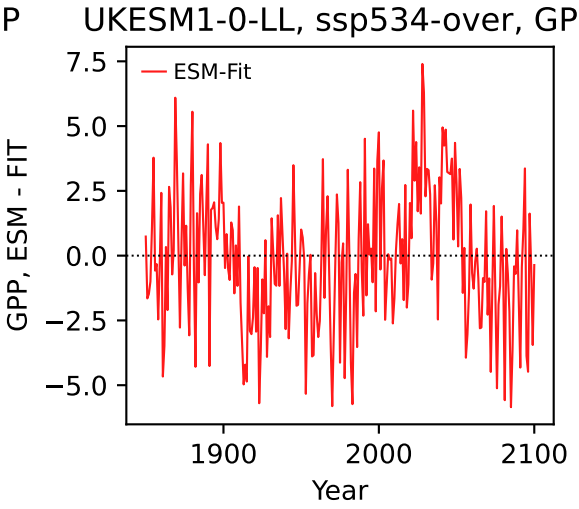
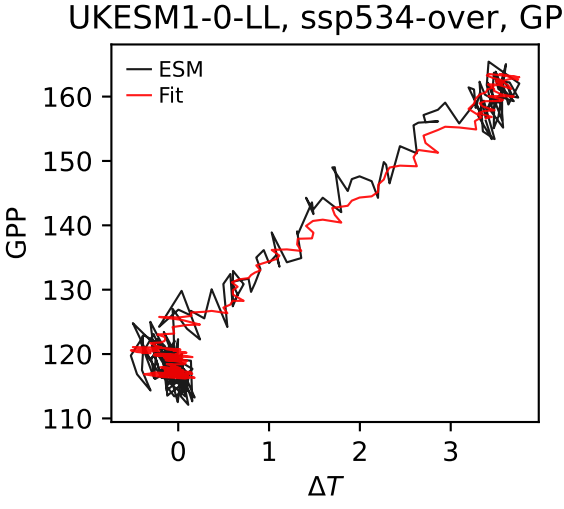
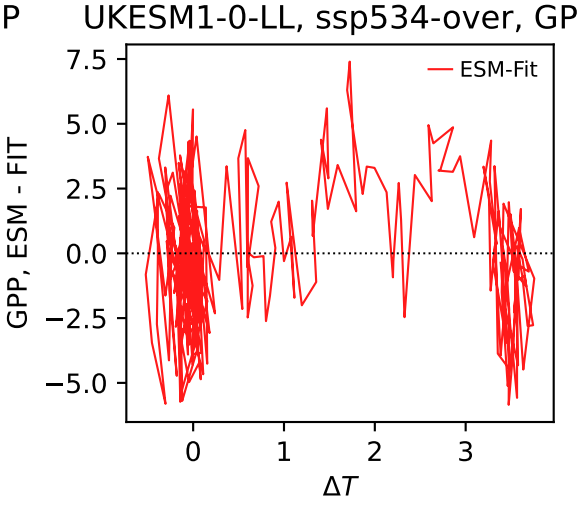
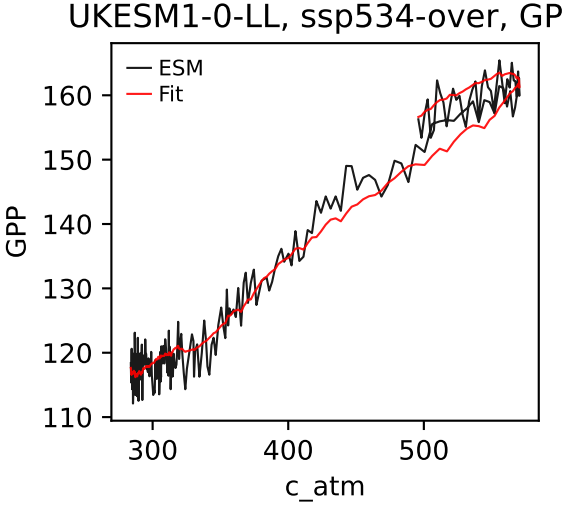

UKESM1-0-LL, ssp534-over, GPP
catm
Year
UKESM1-0-LL, ssp534-over, GPP
Tglb
Year
cveg
Year
csoil
Year
gpp
Year
lit
Year
resp
Year
oflux
Year

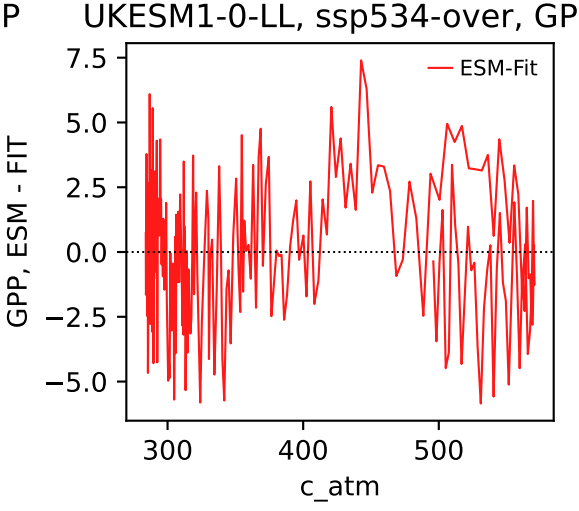

UKESM1-0-LL, ssp534-over, GPP
ESM
Fit
GPP
Year

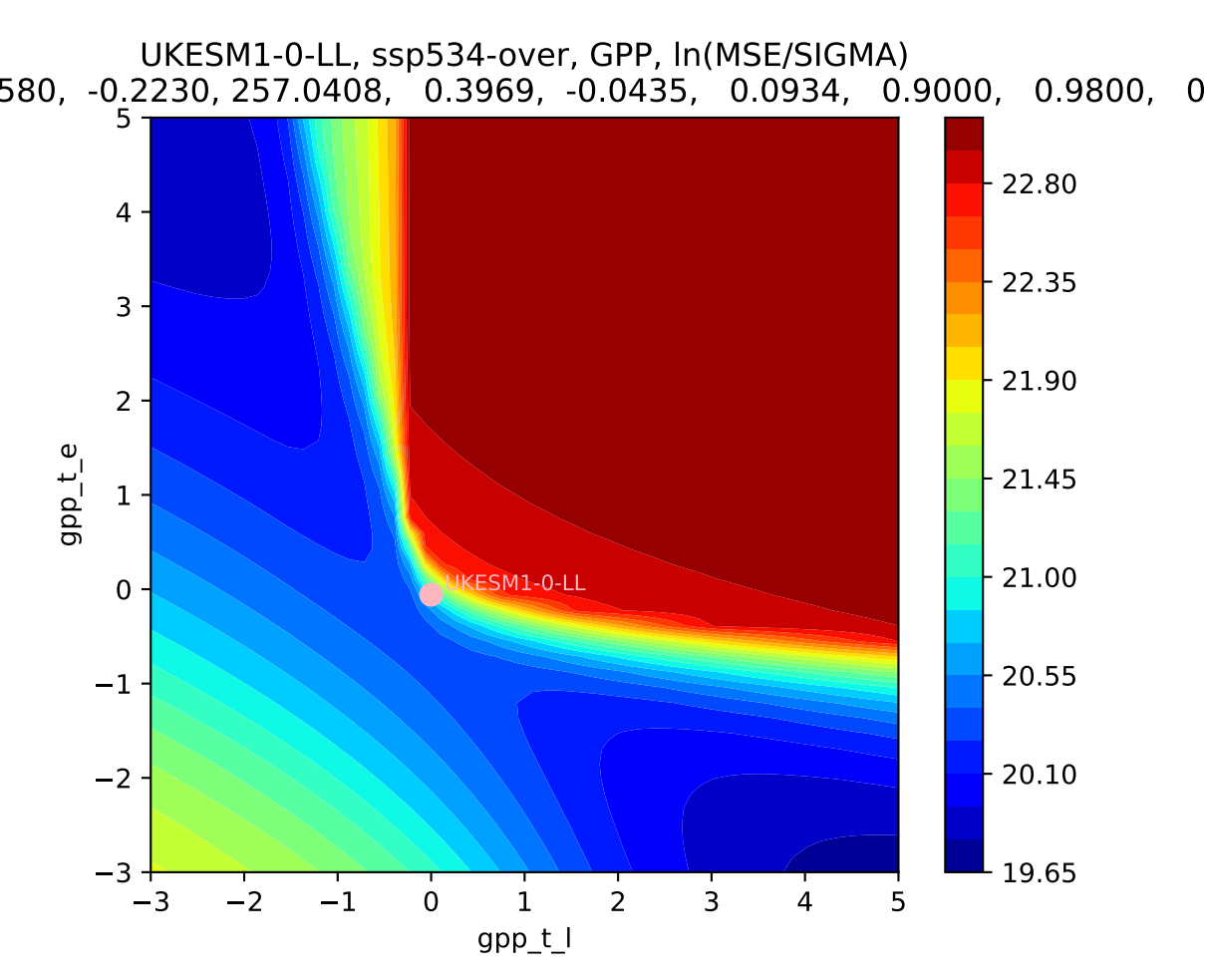

UKESM1-0-LL, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
Year

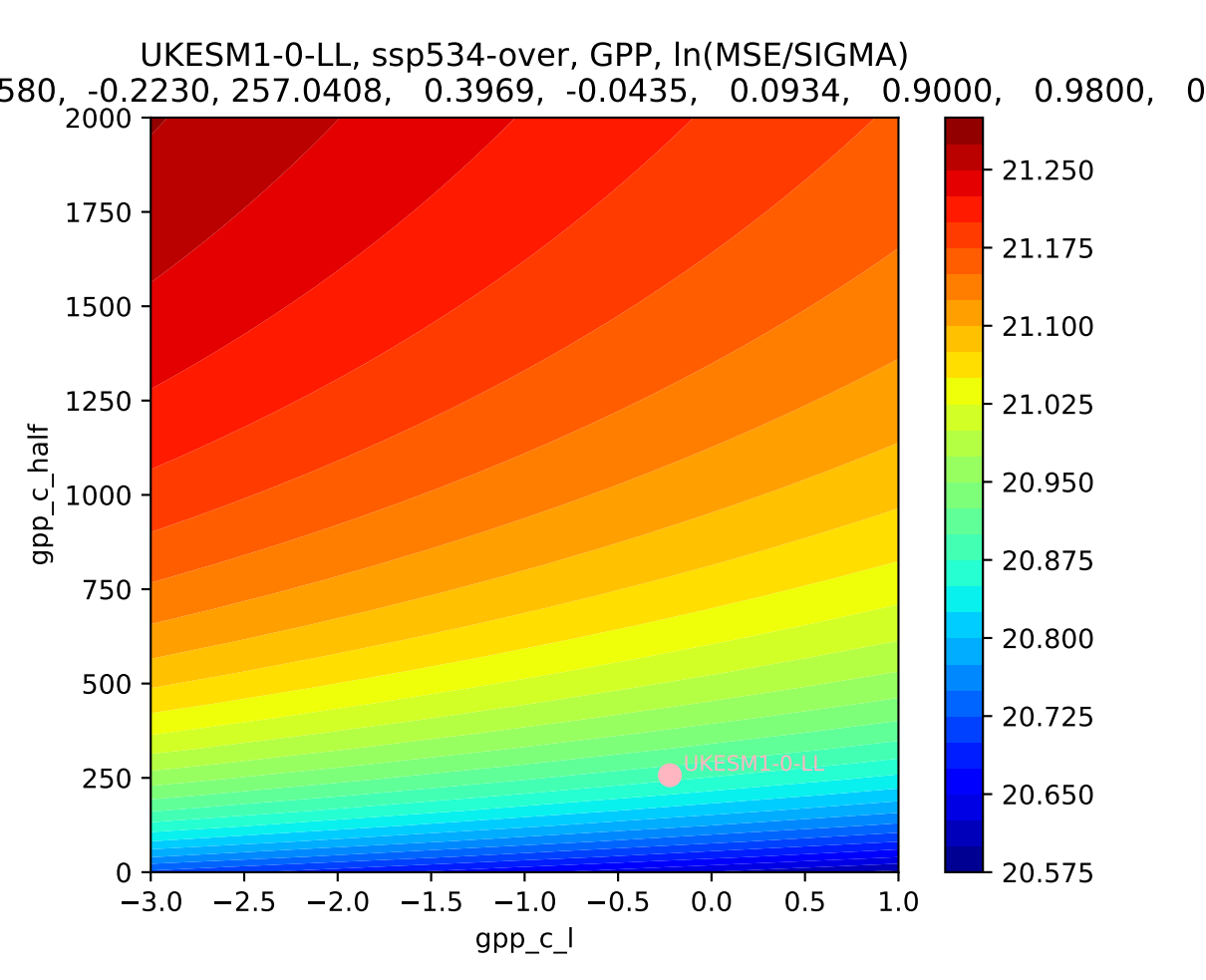

UKESM1-0-LL, ssp534-over, GPP
ESM
Fit
GPP
ΔT

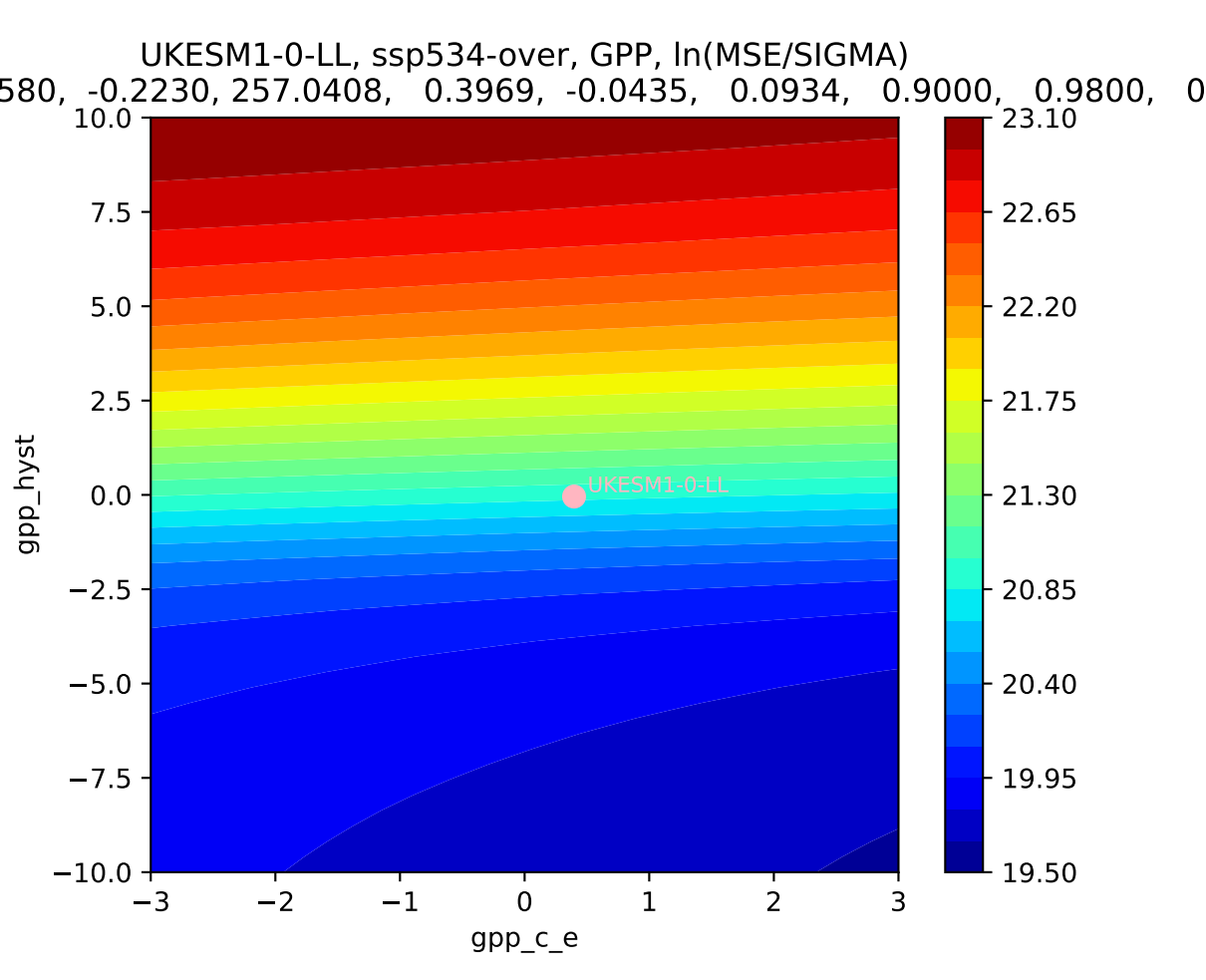

UKESM1-0-LL, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

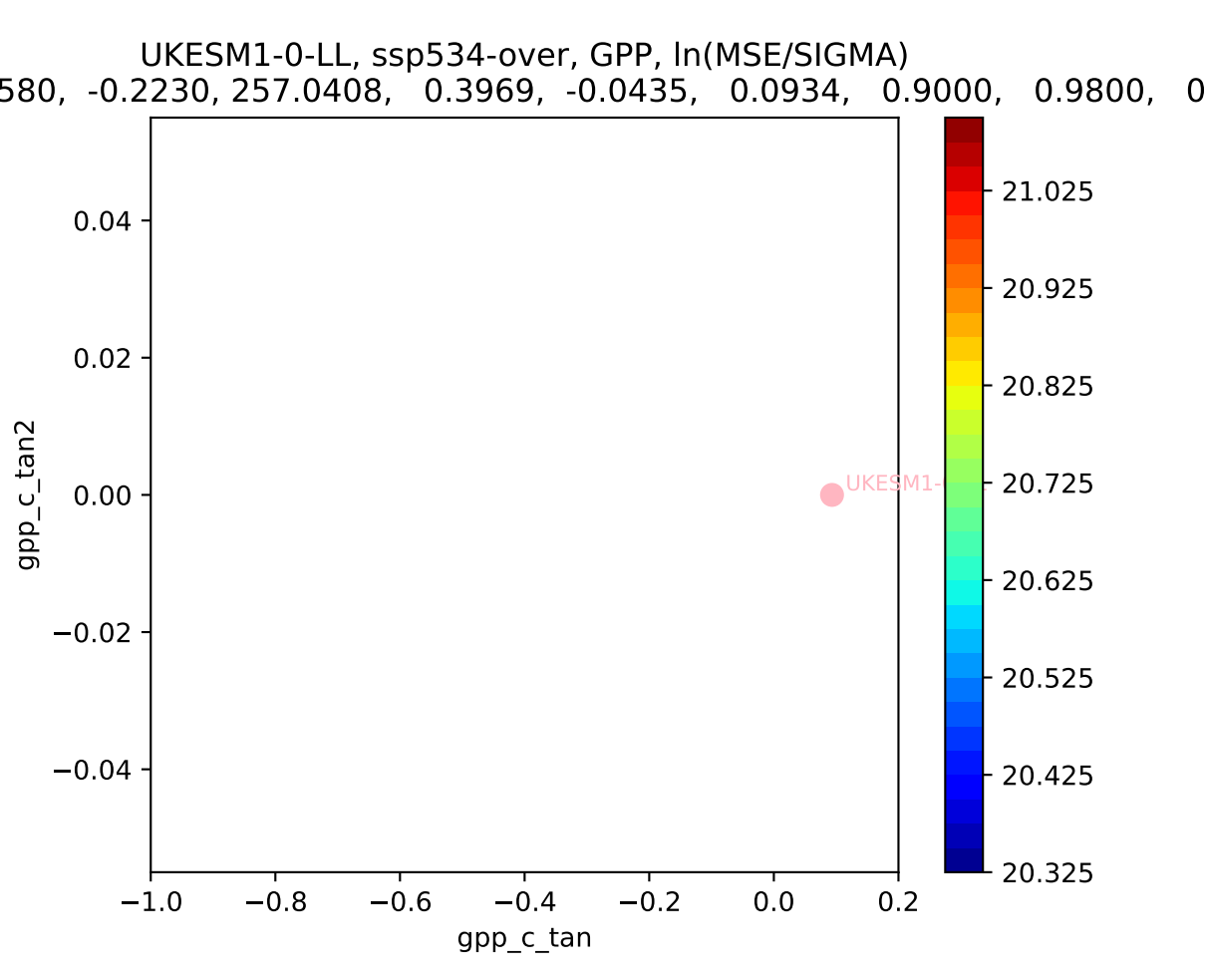

UKESM1-0-LL, ssp534-over, GPP
ESM
Fit
GPP
c_atm

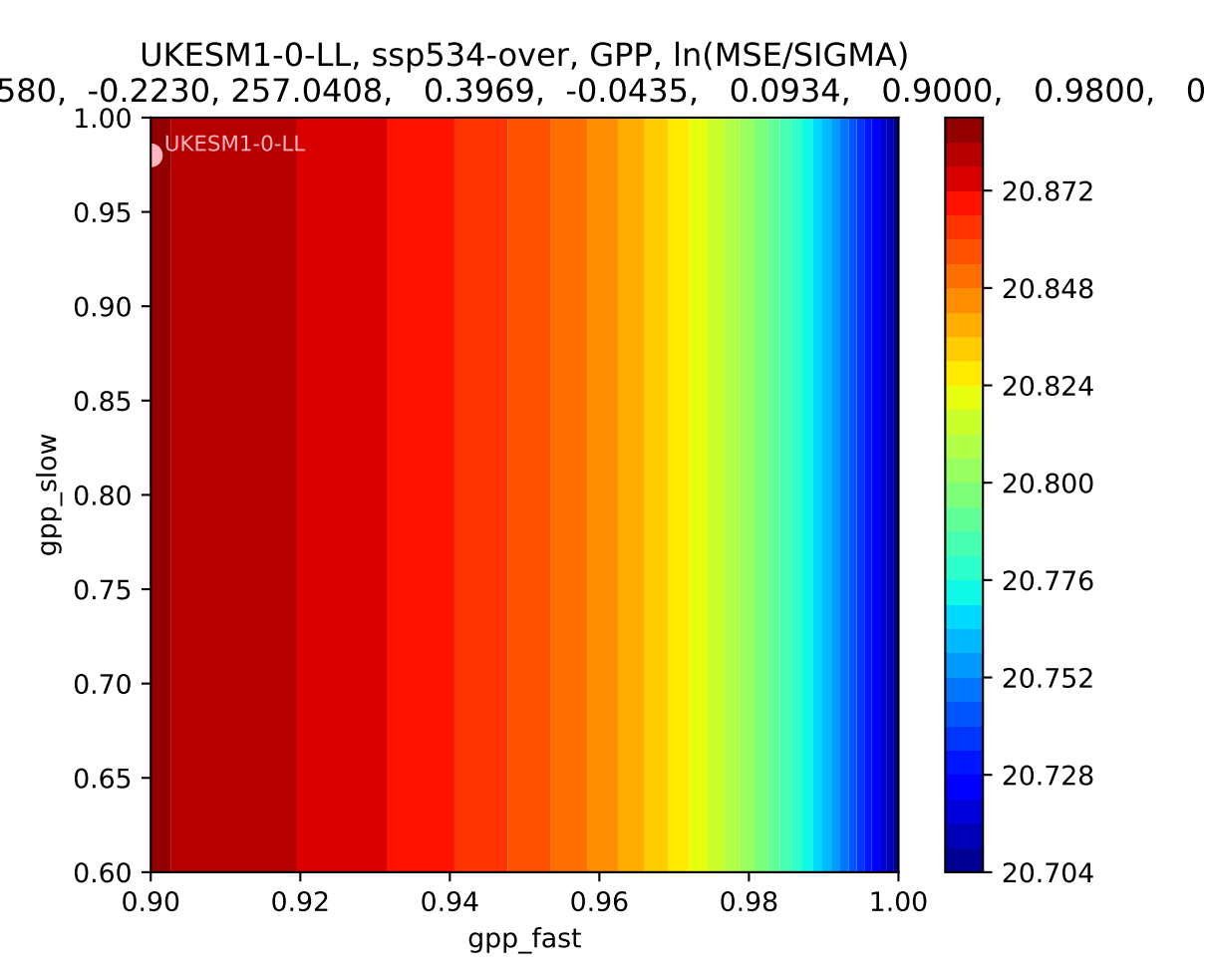

UKESM1-0-LL, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

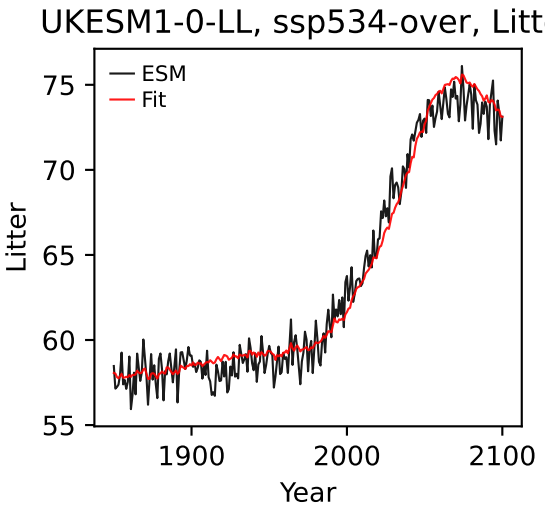

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
580, -0.2230, 257.0408, 0.3969, -0.0435, 0.0934, 0.9000, 0.9800, 0
gpp_t_e
gpp_t_l
UKESM1-0-LL
22.80
22.35
21.90
21.45
21.00
20.55
20.10
19.65

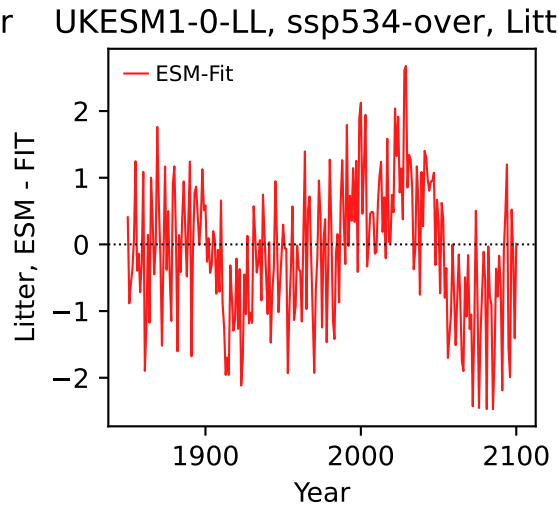

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
580, -0.2230, 257.0408, 0.3969, -0.0435, 0.0934, 0.9000, 0.9800, 0
gpp_c_half
gpp_c_l
UKESM1-0-LL
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
21.250
21.175
21.100
21.025
20.950
20.875
20.800
20.725
20.650
20.575

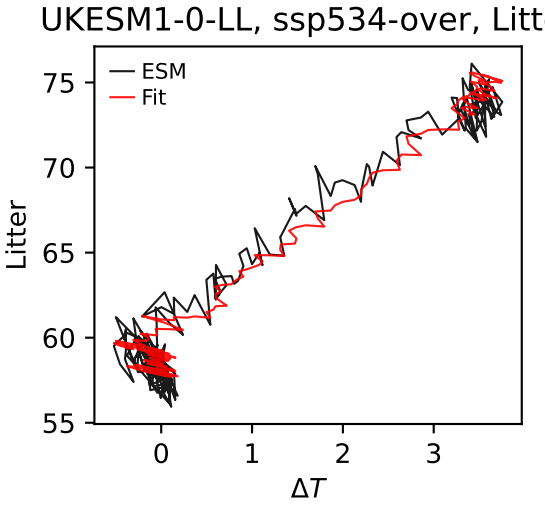

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
580, -0.2230, 257.0408, 0.3969, -0.0435, 0.0934, 0.9000, 0.9800, 0
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
gpp_hyst
UKESM1-0-LL
−3
−2
−1
0
1
2
3
gpp_c_e
23.10
22.65
22.20
21.75
21.30
20.85
20.40
19.95
19.50

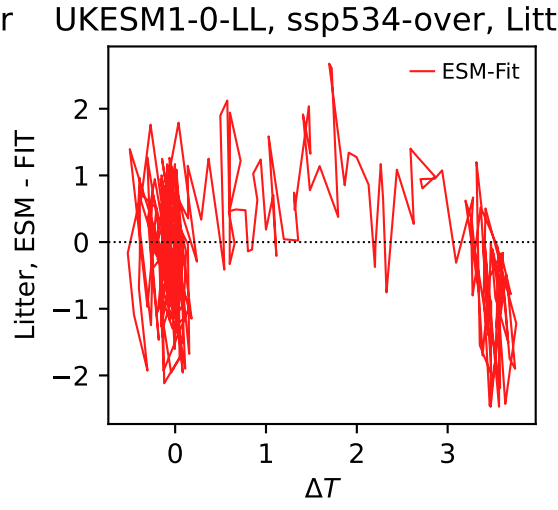

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
580, -0.2230, 257.0408, 0.3969, -0.0435, 0.0934, 0.9000, 0.9800, 0
gpp_c_tan2
gpp_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
21.025
20.925
20.825
20.725
20.625
20.525
20.425
20.325

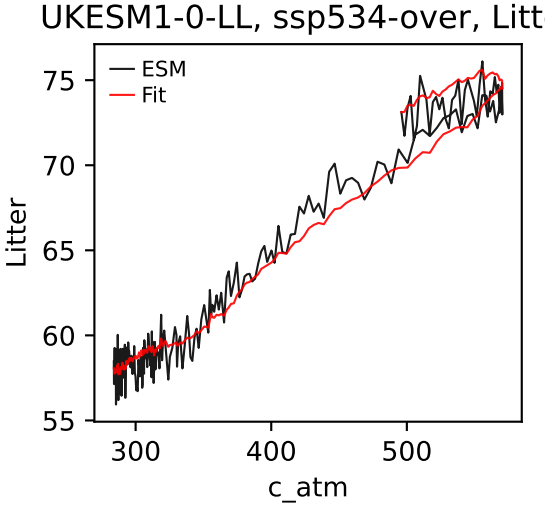

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
580, -0.2230, 257.0408, 0.3969, -0.0435, 0.0934, 0.9000, 0.9800, 0
UKESM1-0-LL
gpp_slow
gpp_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
20.872
20.848
20.824
20.800
20.776
20.752
20.728
20.704

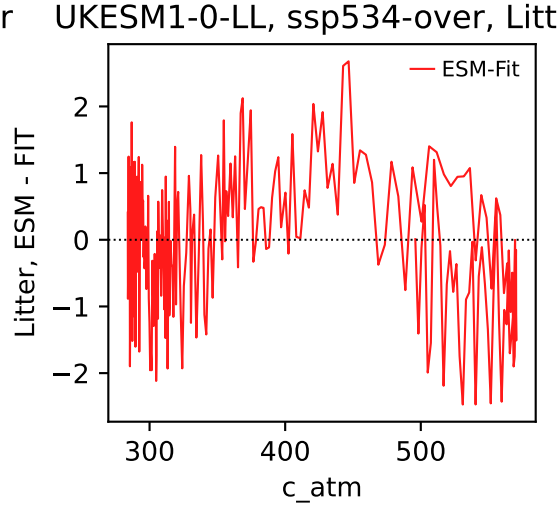

UKESM1-0-LL, ssp534-over, Litter
ESM
Fit
Litter
Year

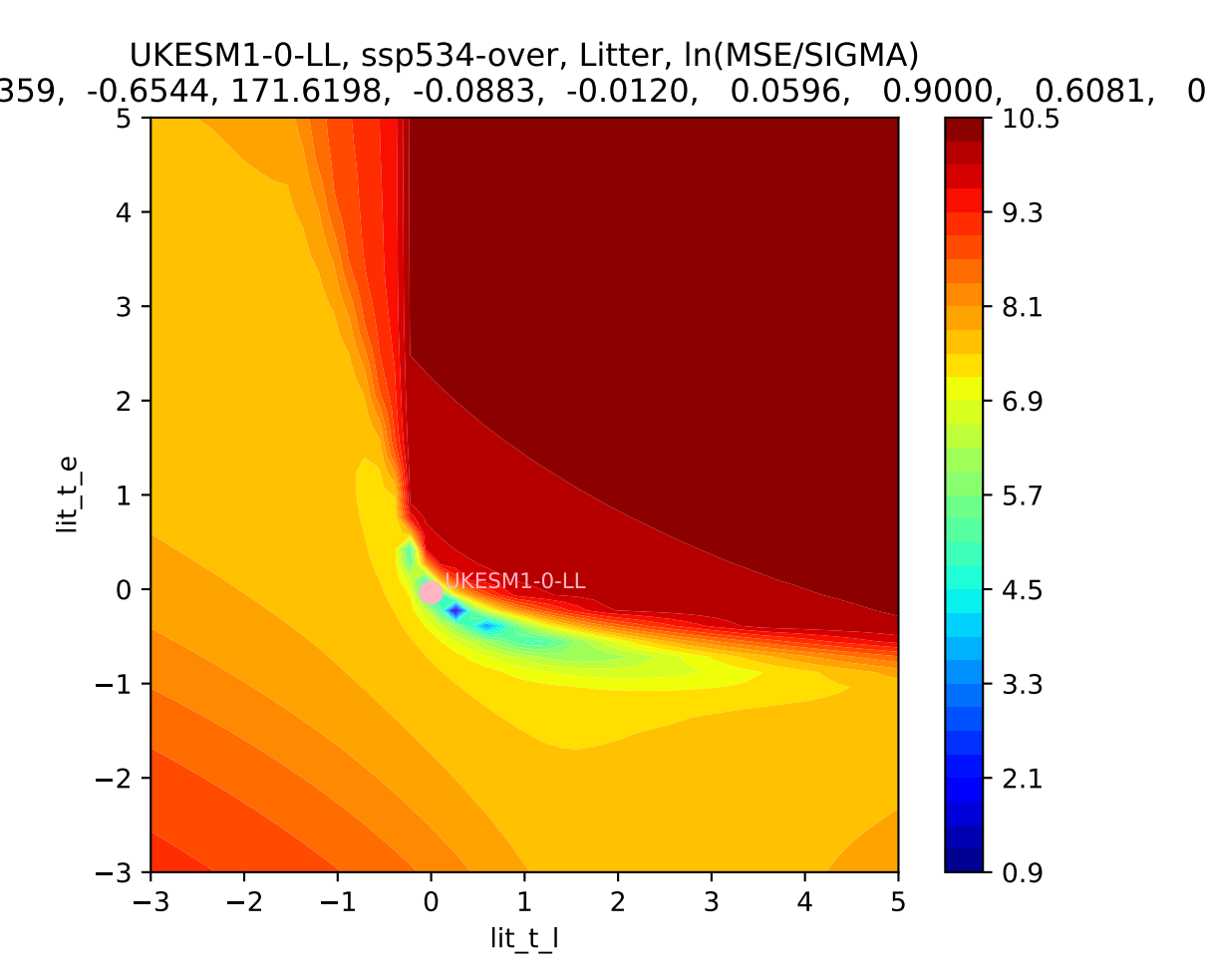

UKESM1-0-LL, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
Year

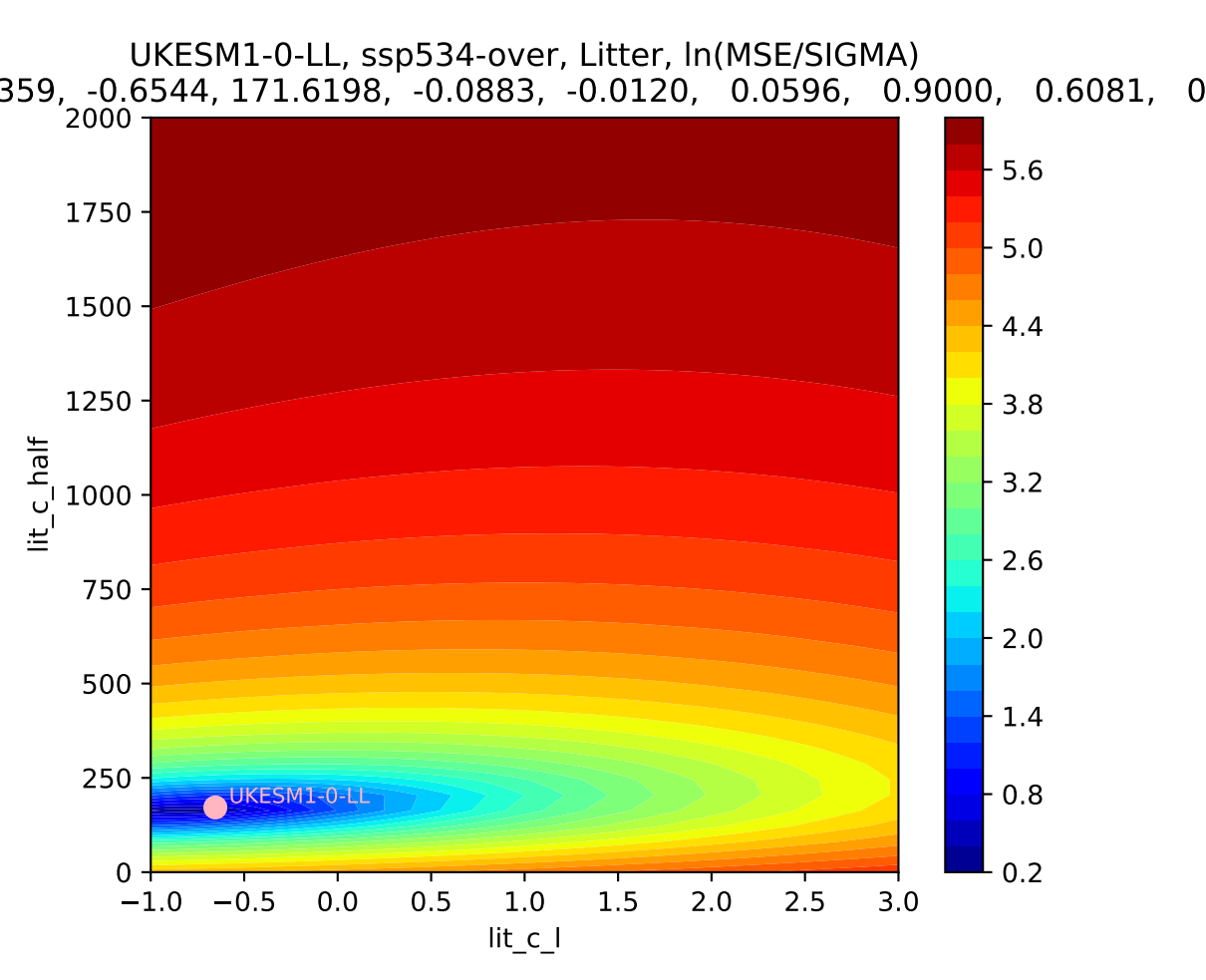

UKESM1-0-LL, ssp534-over, Litter
ESM
Fit
Litter
ΔT

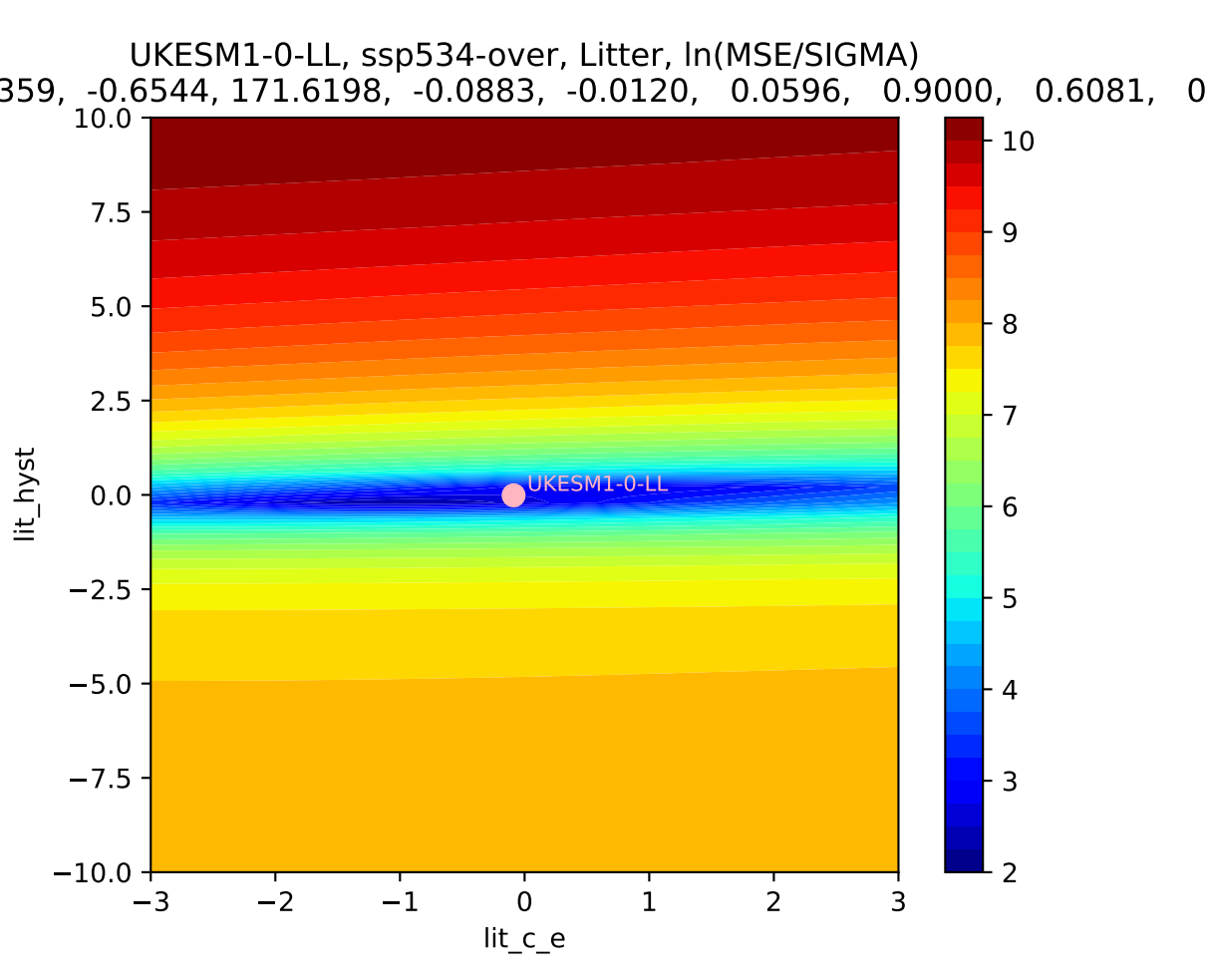

UKESM1-0-LL, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
ΔT

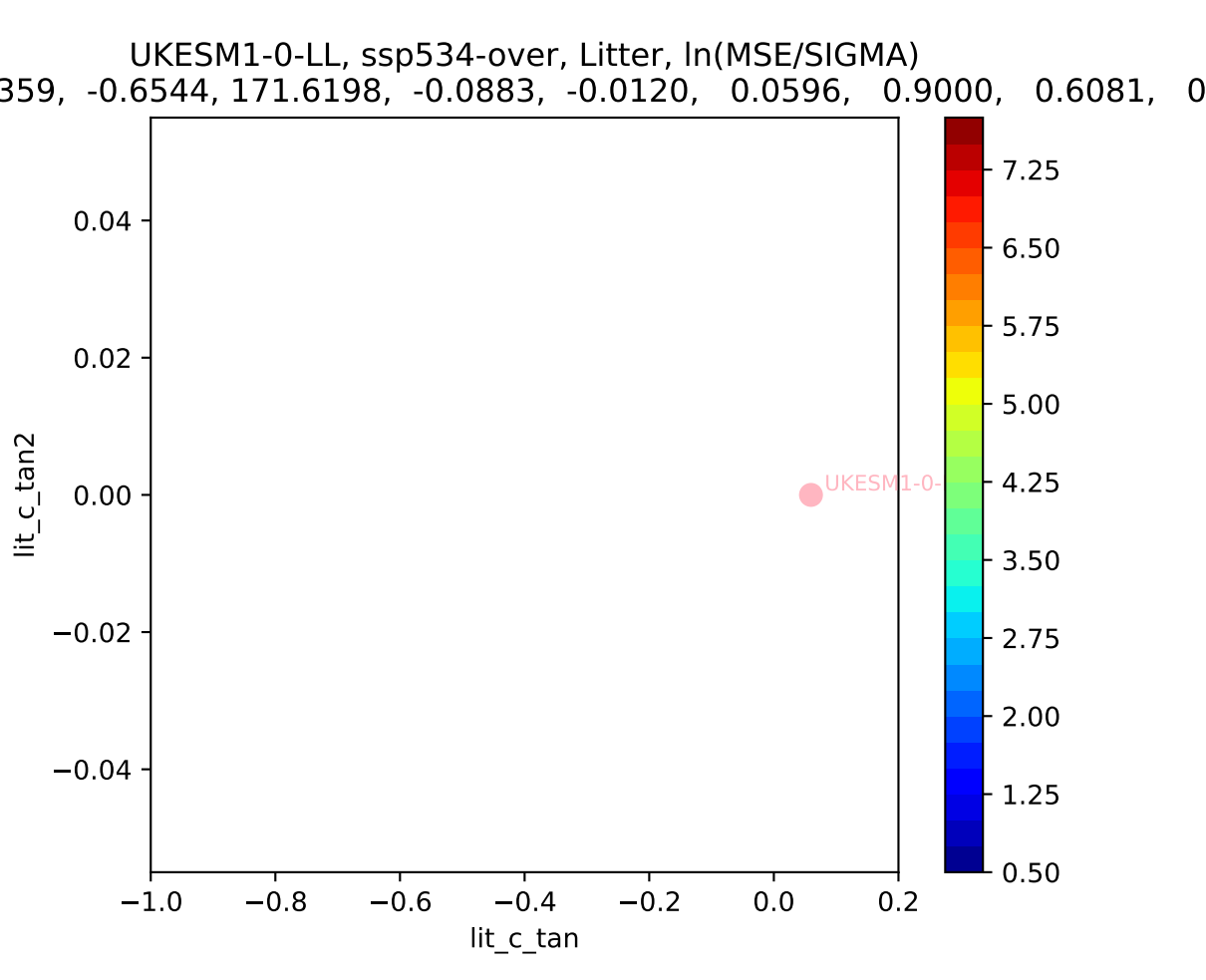

UKESM1-0-LL, ssp534-over, Litter
ESM
Fit
Litter
c_atm

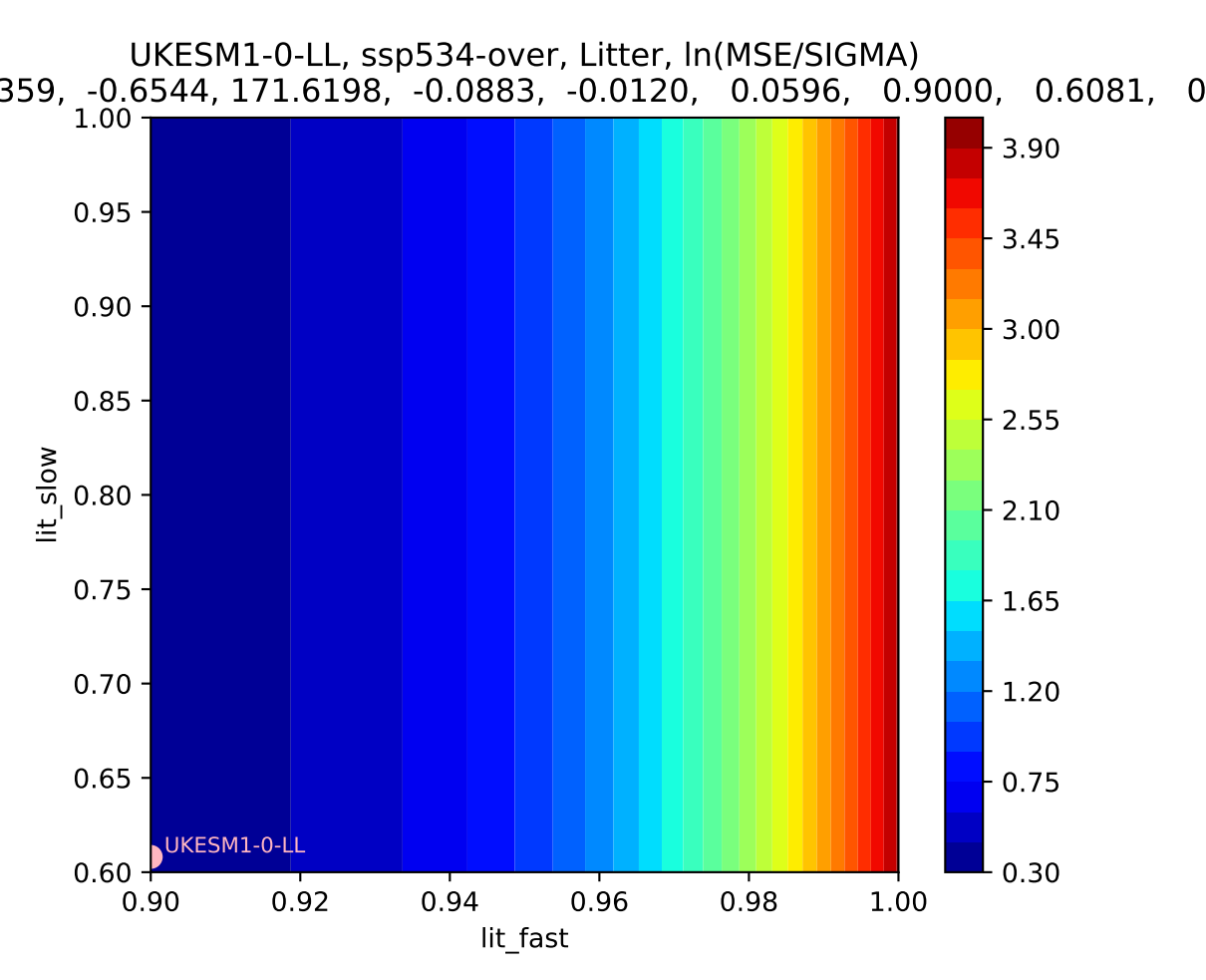

UKESM1-0-LL, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
c_atm

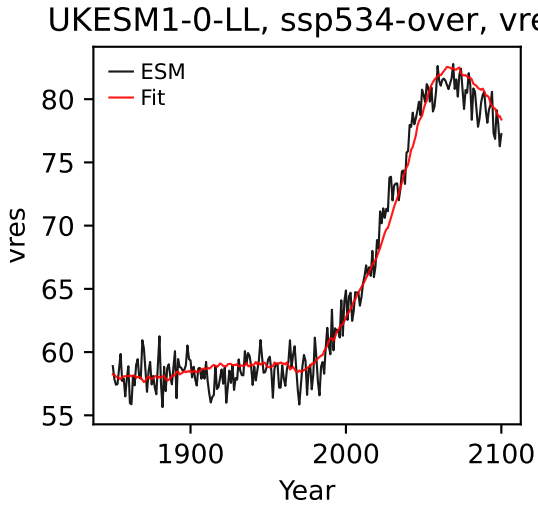

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
359, -0.6544, 171.6198, -0.0883, -0.0120, 0.0596, 0.9000, 0.6081, 0
UKESM1-0-LL
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
10.5
9.3
8.1
6.9
5.7
4.5
3.3
2.1
0.9

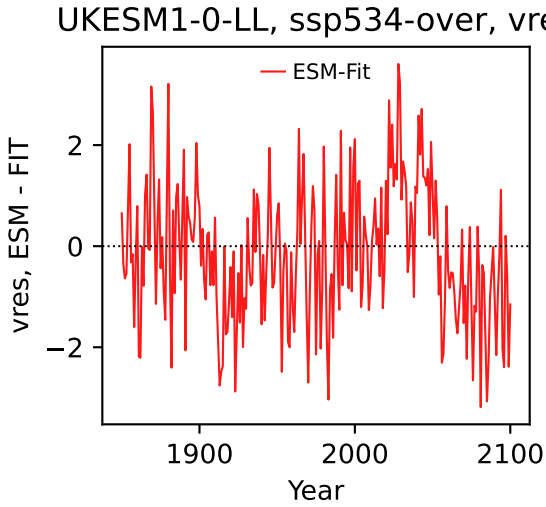

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
359, -0.6544, 171.6198, -0.0883, -0.0120, 0.0596, 0.9000, 0.6081, 0
lit_c_half
lit_c_l
UKESM1-0-LL
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
5.6
5.0
4.4
3.8
3.2
2.6
2.0
1.4
0.8
0.2

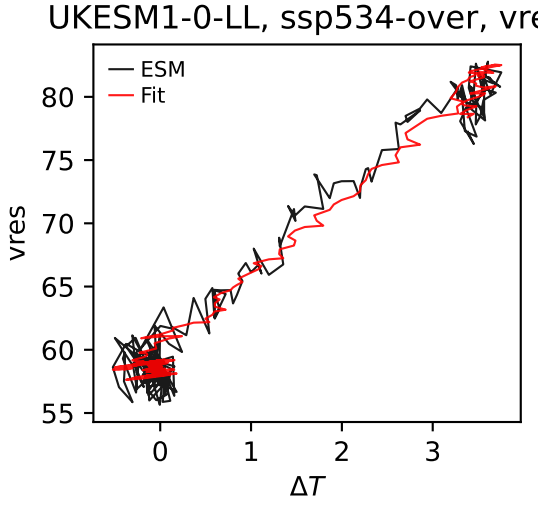

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
359, -0.6544, 171.6198, -0.0883, -0.0120, 0.0596, 0.9000, 0.6081, 0
UKESM1-0-LL
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10
9
8
7
6
5
4
3
2

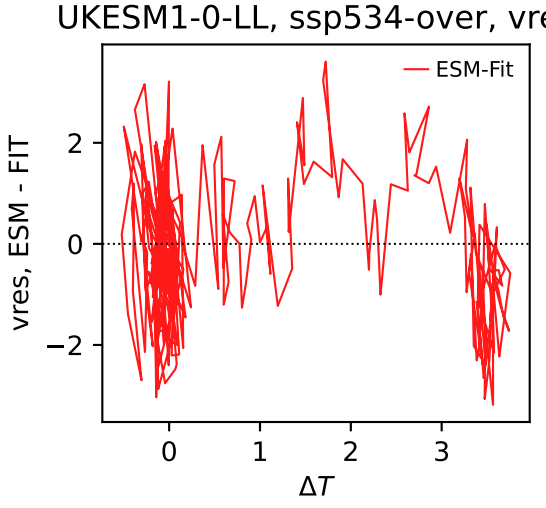

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
359, -0.6544, 171.6198, -0.0883, -0.0120, 0.0596, 0.9000, 0.6081, 0
UKESM1-0-
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00
1.25
0.50

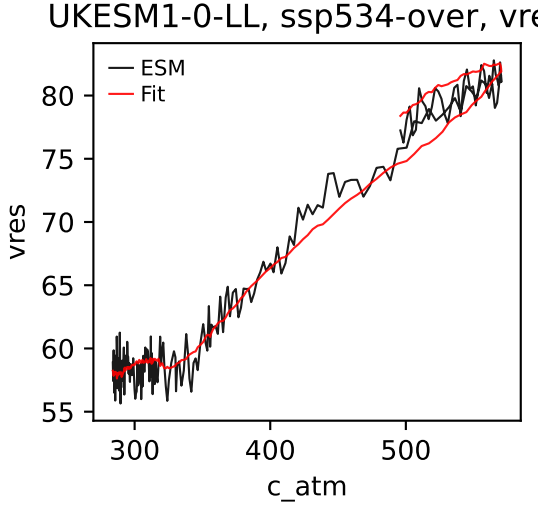

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
359, -0.6544, 171.6198, -0.0883, -0.0120, 0.0596, 0.9000, 0.6081, 0
lit_slow
lit_fast
UKESM1-0-LL
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
3.90
3.45
3.00
2.55
2.10
1.65
1.20
0.75
0.30

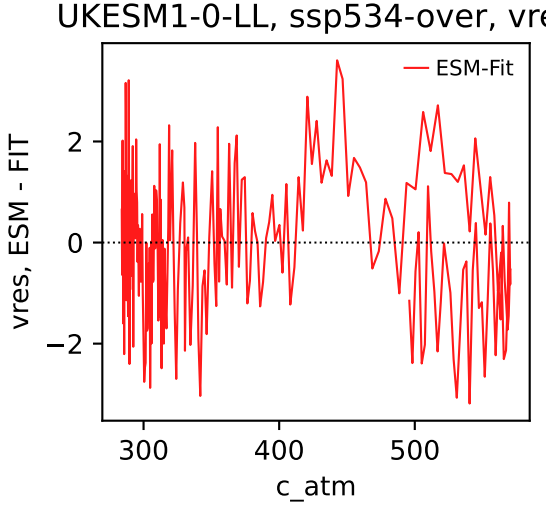

UKESM1-0-LL, ssp534-over, vres
ESM
Fit
vres
Year

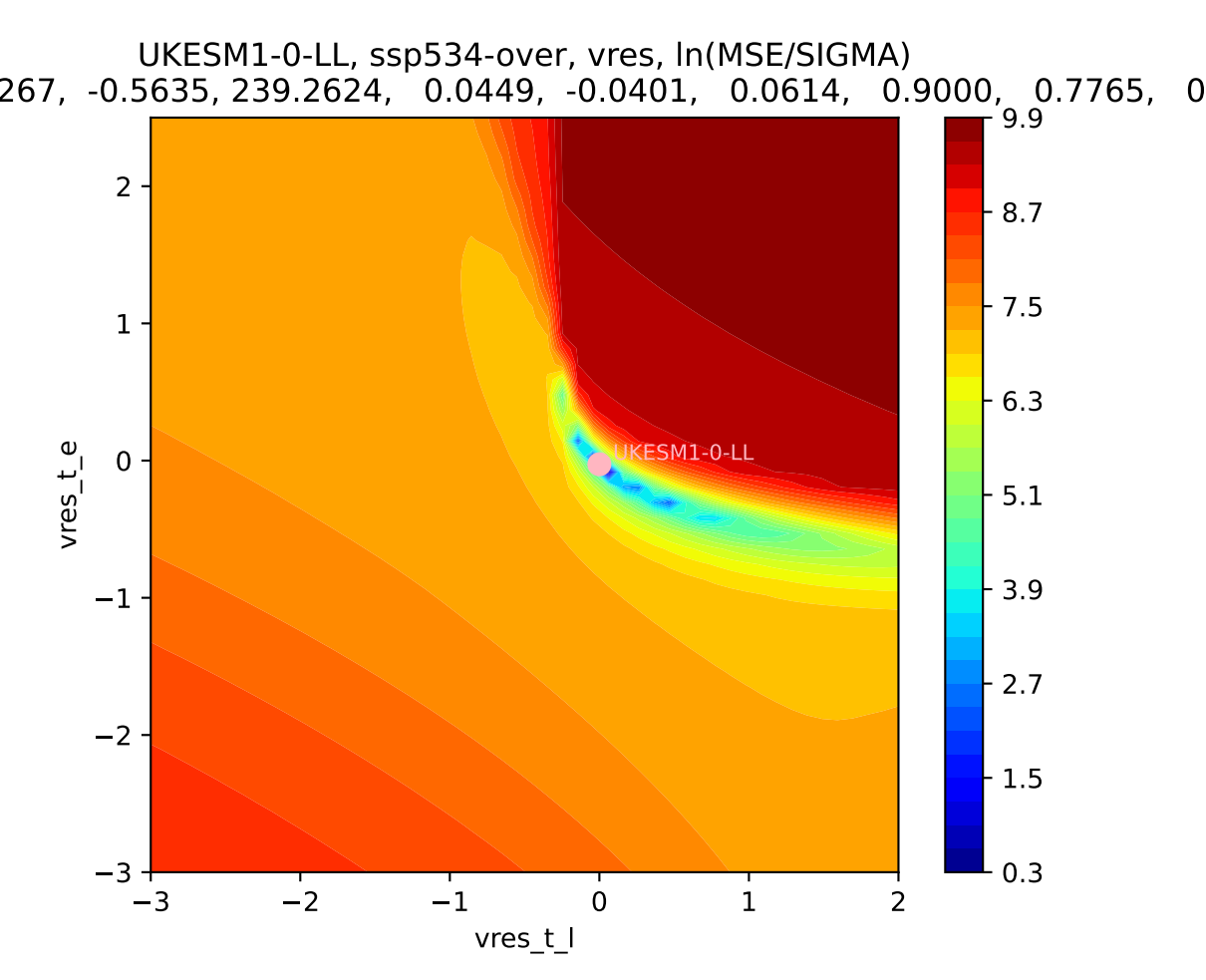

UKESM1-0-LL, ssp534-over, vres
ESM-Fit
vres, ESM - FIT
Year

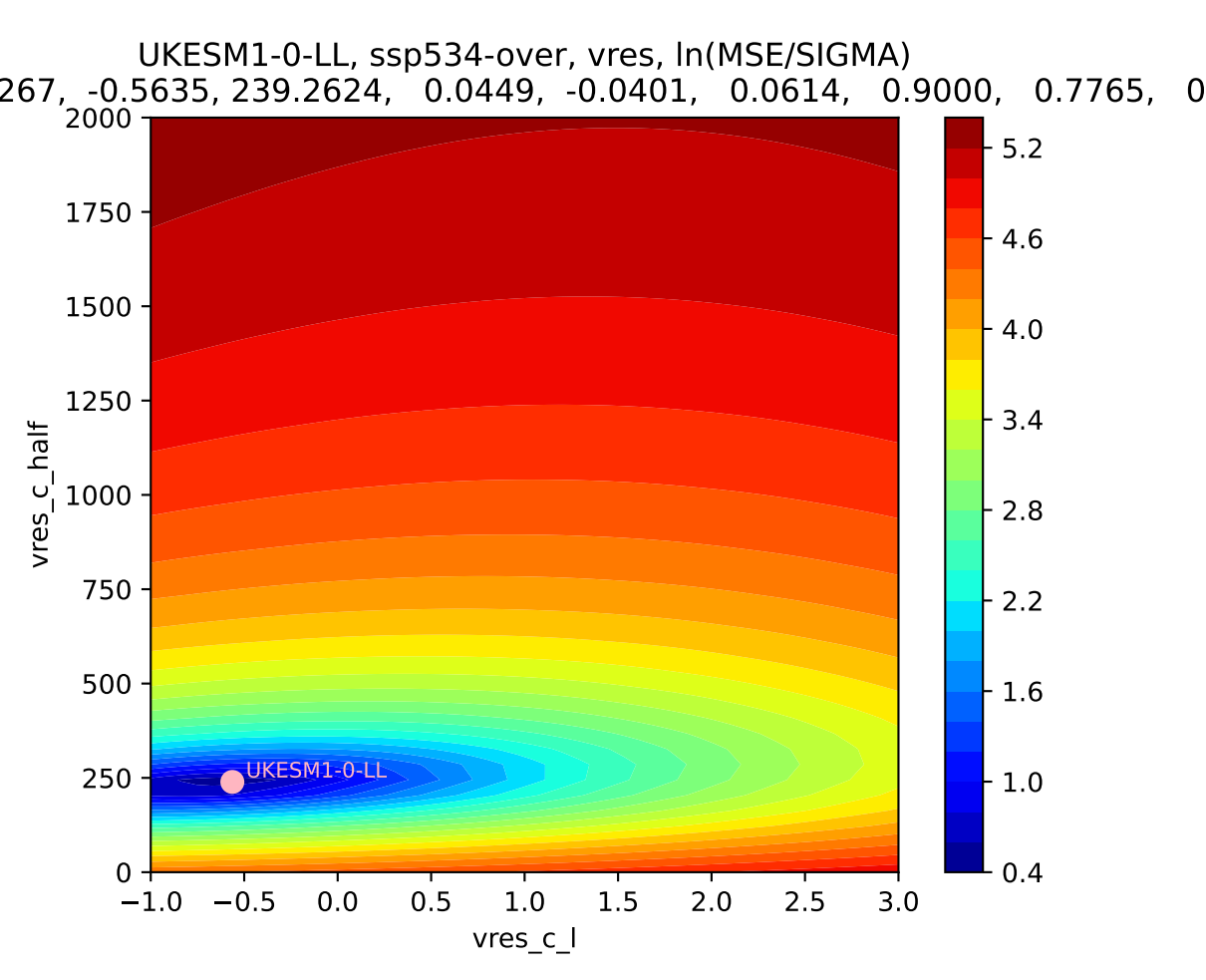

UKESM1-0-LL, ssp534-over, vres
ESM
Fit
vres
ΔT

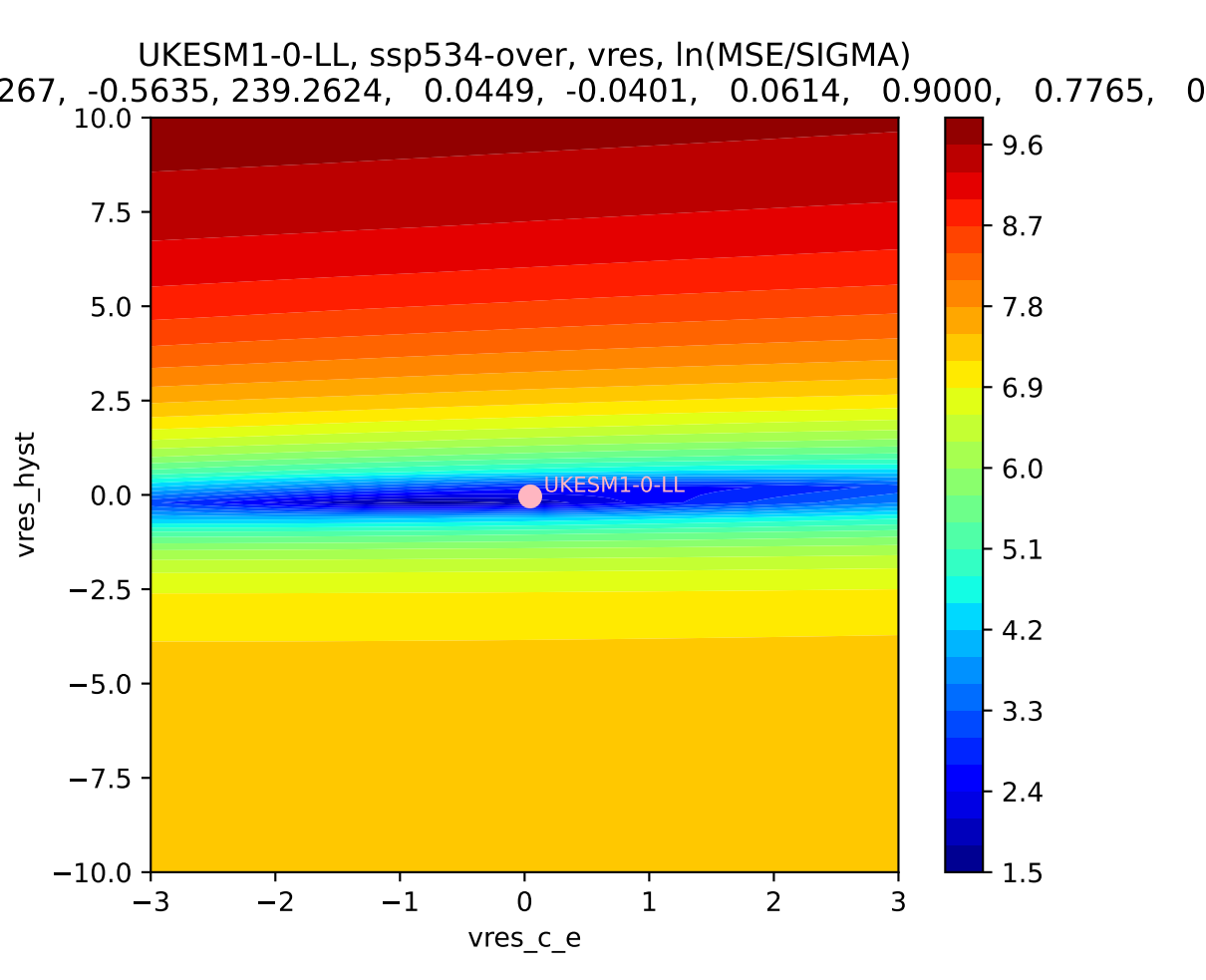

UKESM1-0-LL, ssp534-over, vres
ESM-Fit
vres, ESM - FIT
ΔT

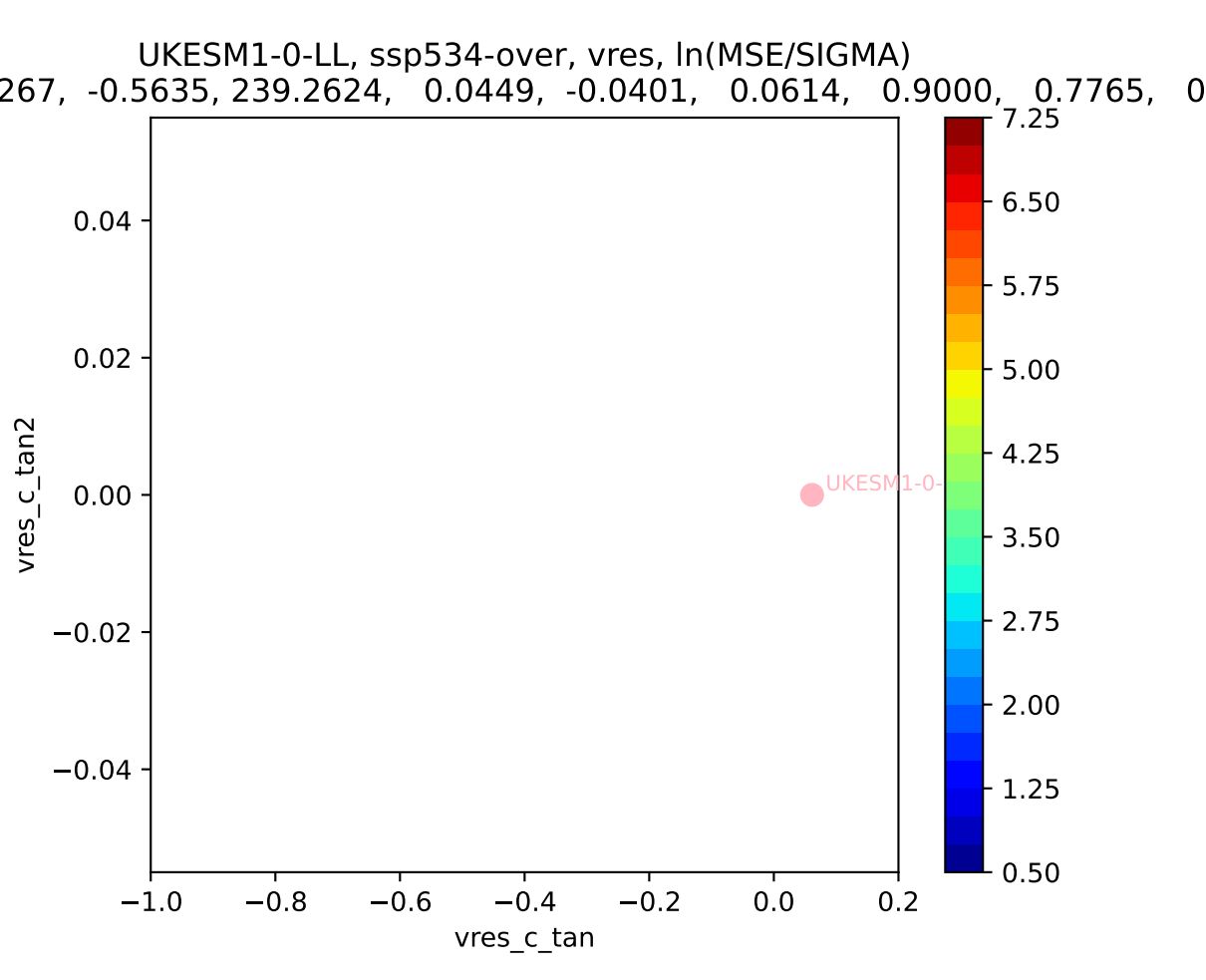

UKESM1-0-LL, ssp534-over, vres
ESM
Fit
vres
c_atm

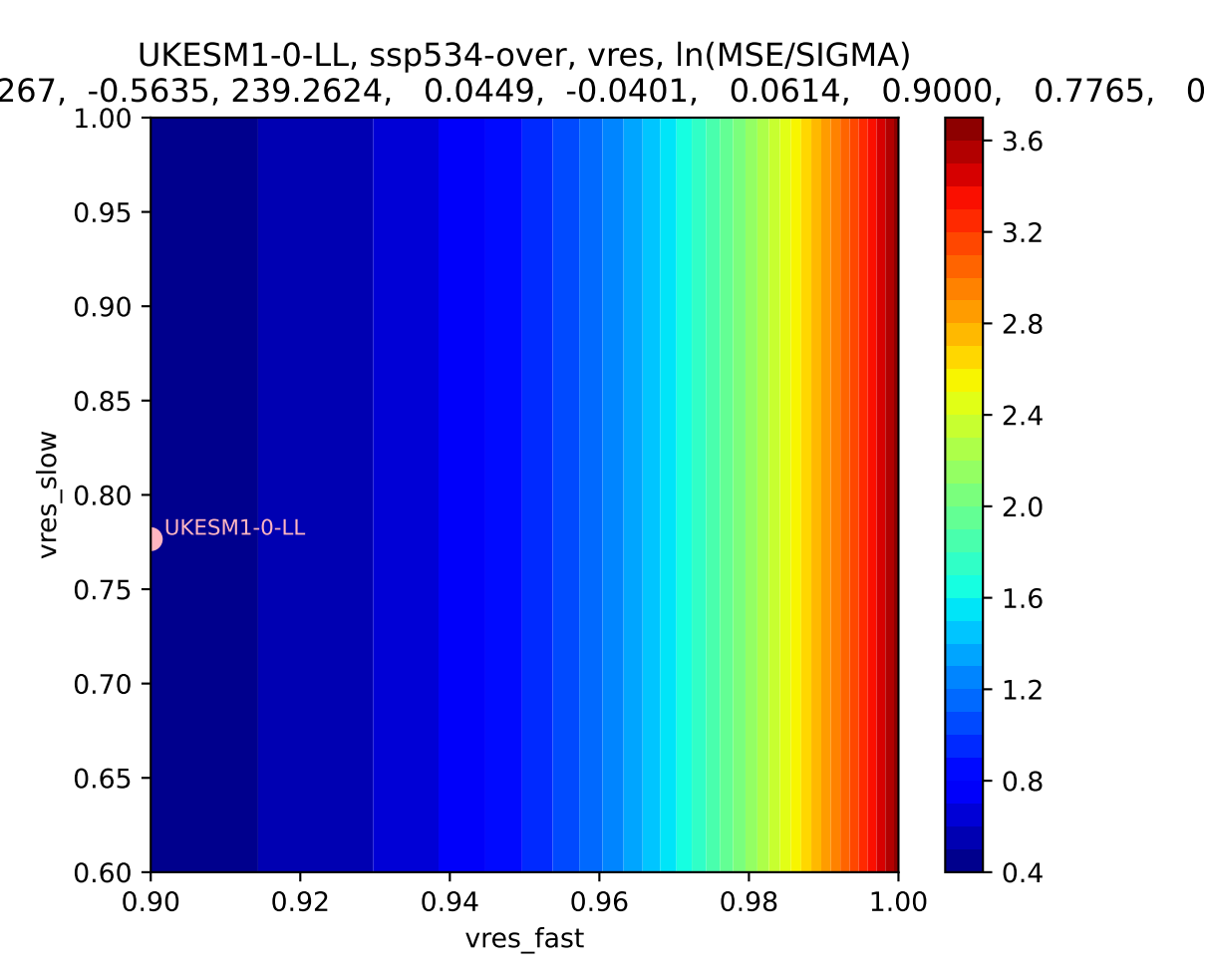

UKESM1-0-LL, ssp534-over, vres
ESM-Fit
vres, ESM - FIT
c_atm

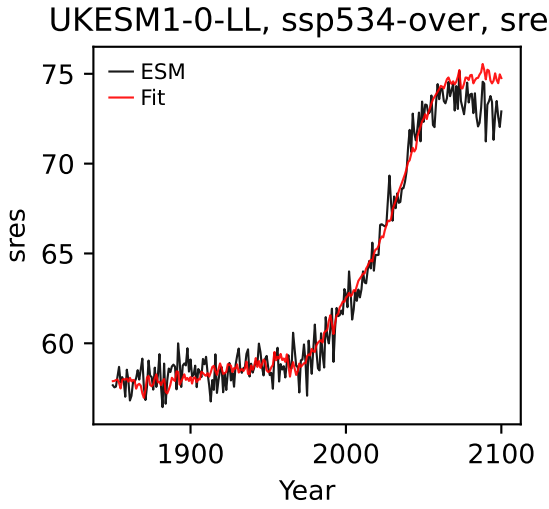

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
267, -0.5635, 239.2624, 0.0449, -0.0401, 0.0614, 0.9000, 0.7765, 0
UKESM1-0-LL
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

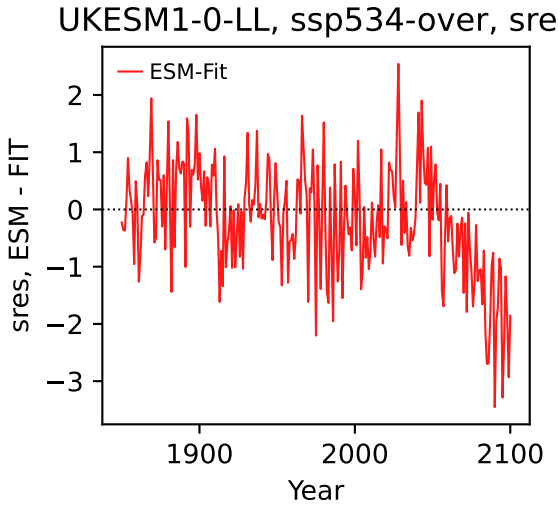

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
267, -0.5635, 239.2624, 0.0449, -0.0401, 0.0614, 0.9000, 0.7765, 0
vres_c_half
vres_c_l
UKESM1-0-LL
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
5.2
4.6
4.0
3.4
2.8
2.2
1.6
1.0
0.4

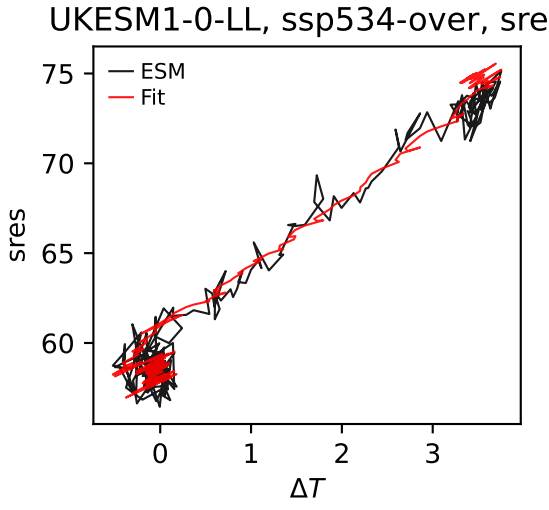

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
267, -0.5635, 239.2624, 0.0449, -0.0401, 0.0614, 0.9000, 0.7765, 0
UKESM1-0-LL
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5

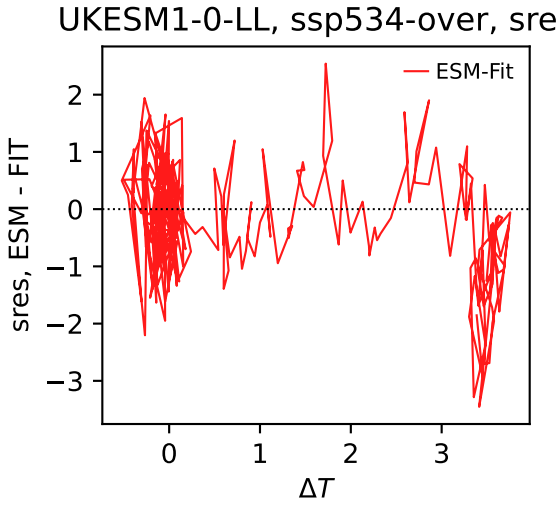

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
267, -0.5635, 239.2624, 0.0449, -0.0401, 0.0614, 0.9000, 0.7765, 0
0.04
0.02
0.00
−0.02
−0.04
vres_c_tan2
UKESM1-0-
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
vres_c_tan
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00
1.25
0.50

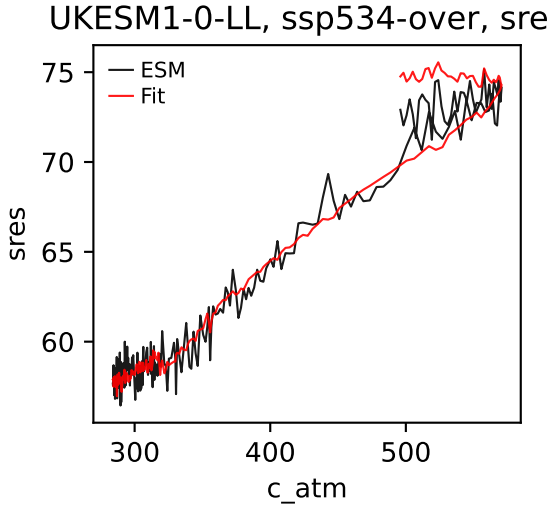

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
267, -0.5635, 239.2624, 0.0449, -0.0401, 0.0614, 0.9000, 0.7765, 0
UKESM1-0-LL
vres_slow
vres_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
3.6
3.2
2.8
2.4
2.0
1.6
1.2
0.8
0.4

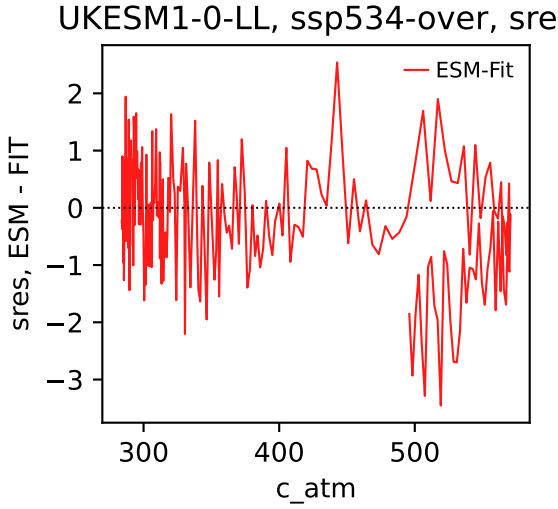

UKESM1-0-LL, ssp534-over, sres
ESM
Fit
sres
Year

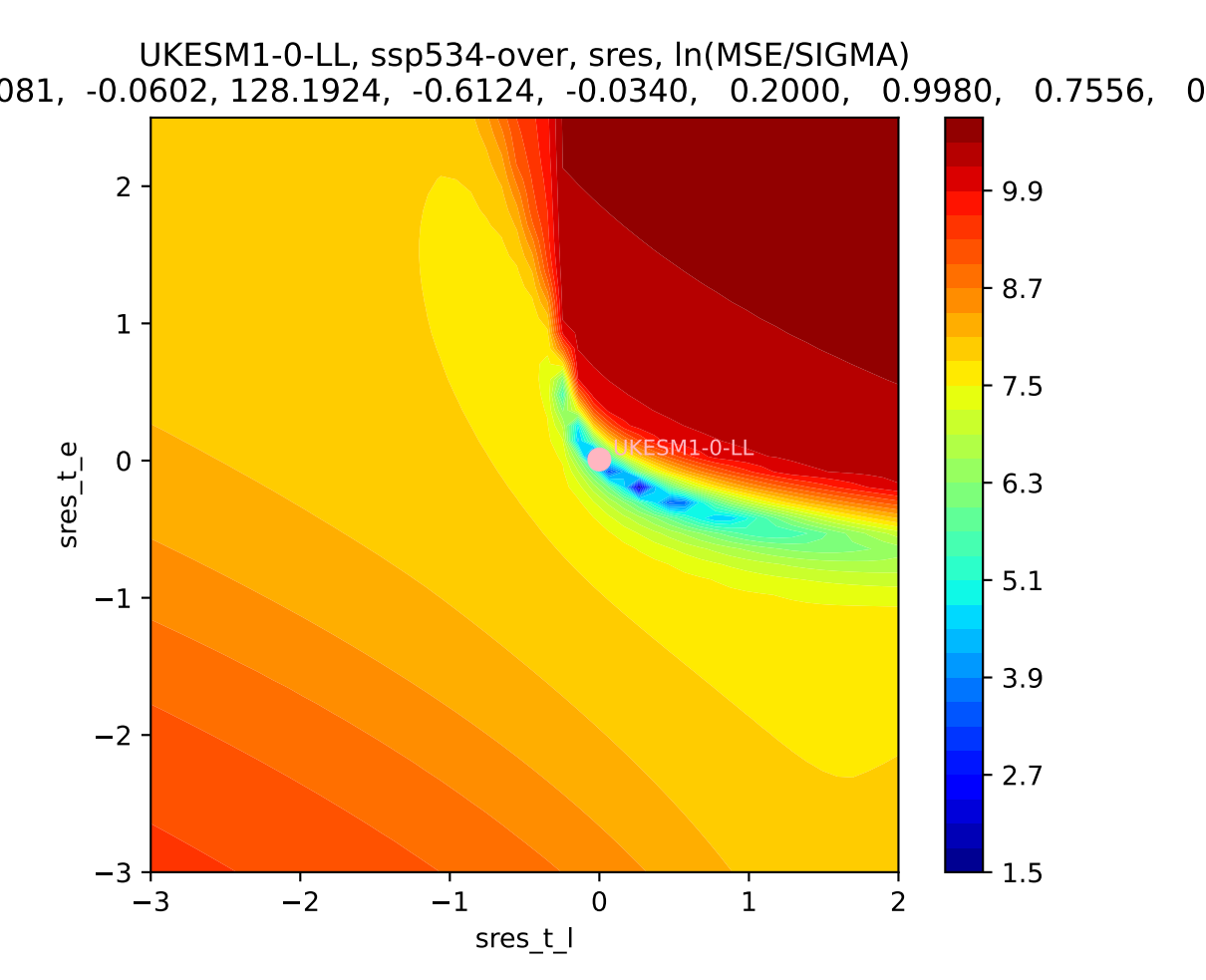

UKESM1-0-LL, ssp534-over, sres
ESM-Fit
sres, ESM - FIT
Year

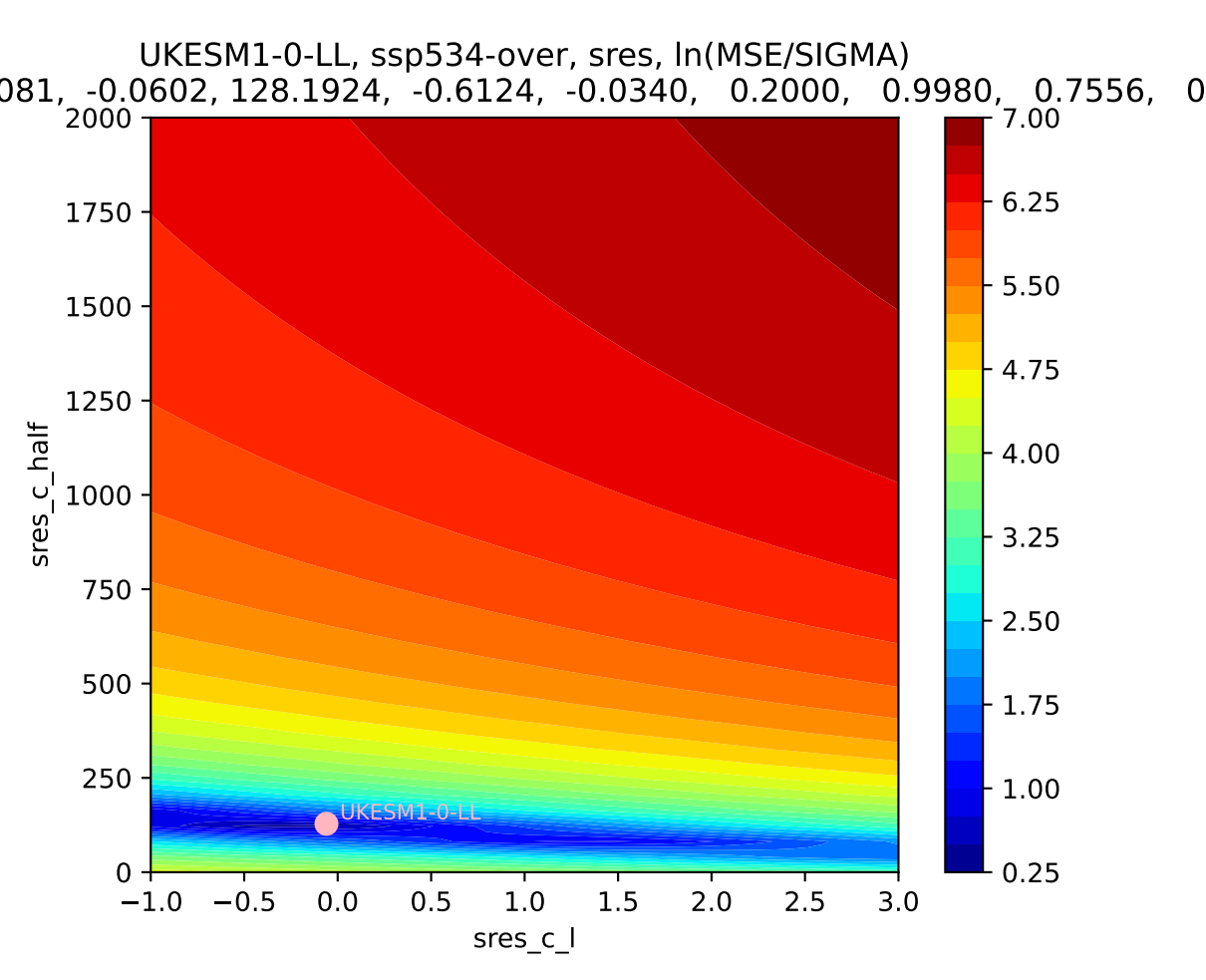

UKESM1-0-LL, ssp534-over, sres
ESM
Fit
sres
ΔT

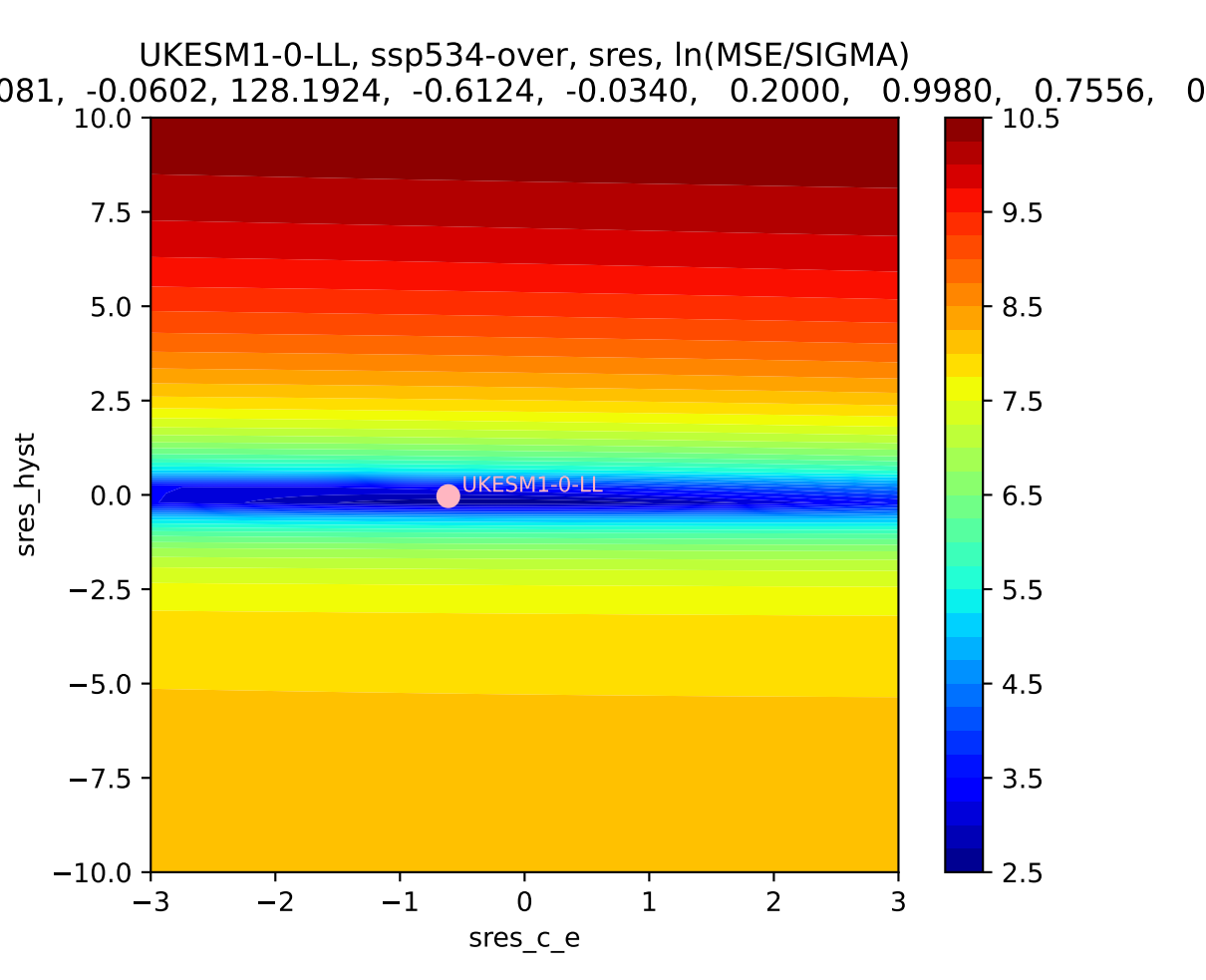

UKESM1-0-LL, ssp534-over, sres
ESM-Fit
sres, ESM - FIT
ΔT

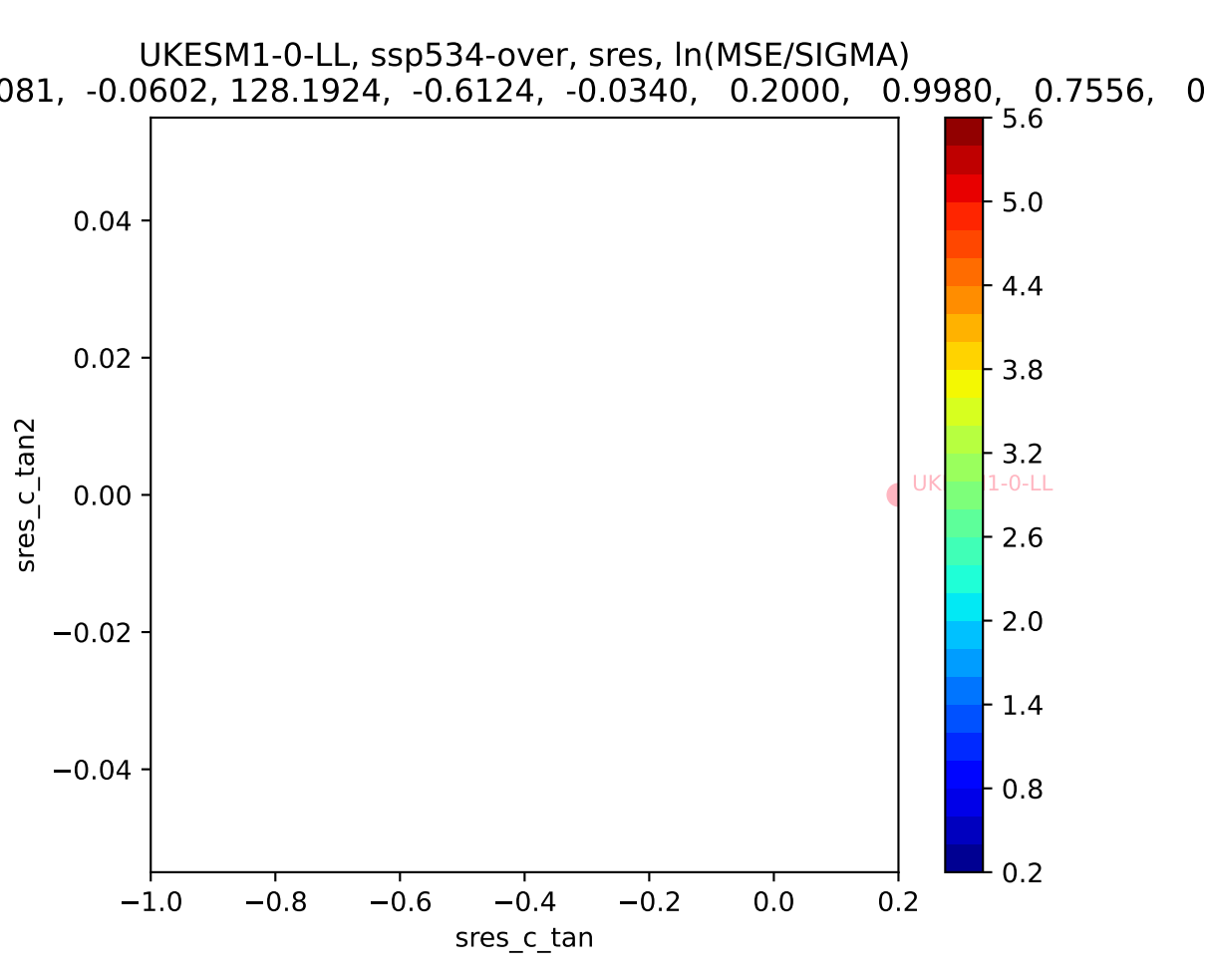

UKESM1-0-LL, ssp534-over, sres
ESM
Fit
sres
c_atm

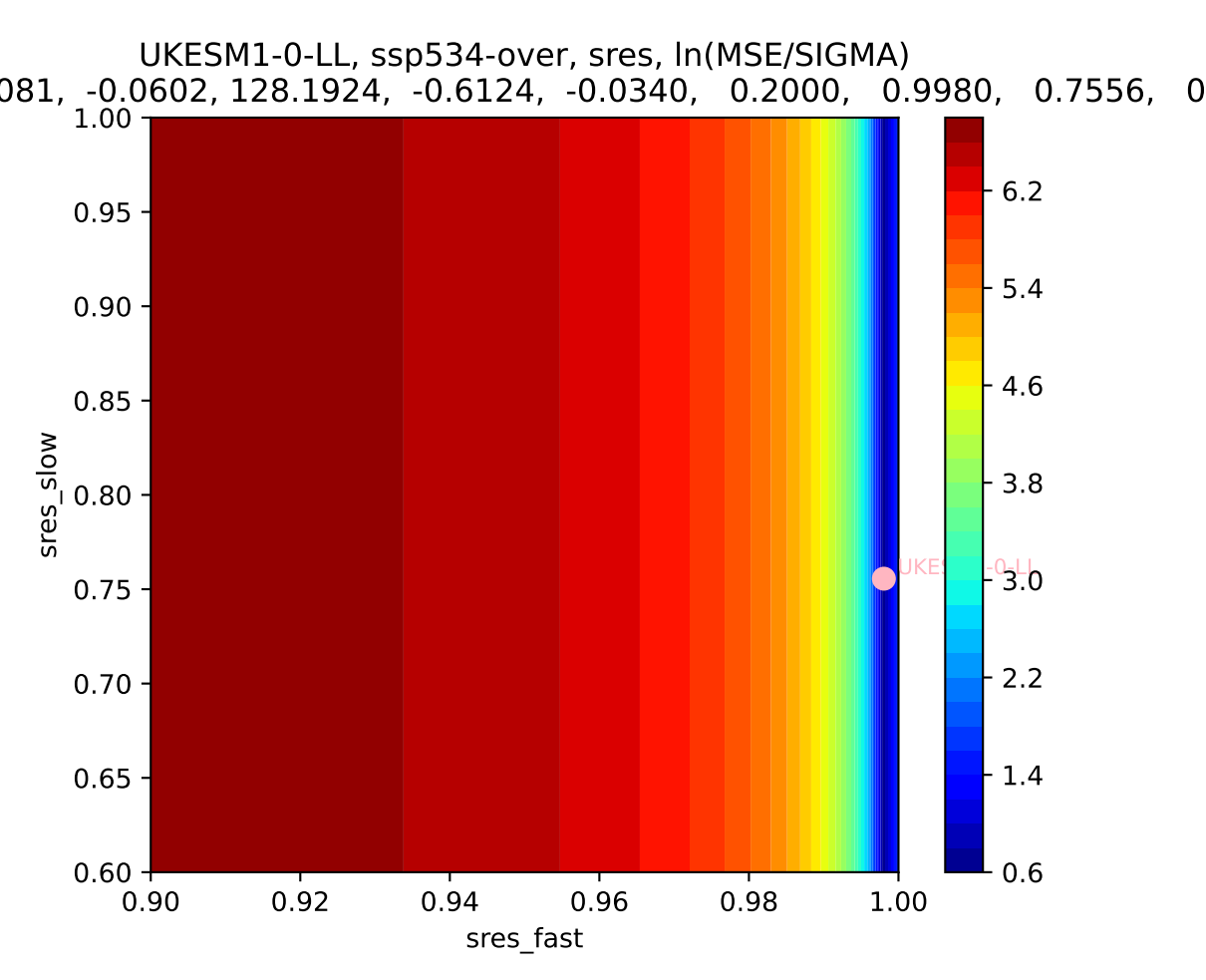

UKESM1-0-LL, ssp534-over, sres
ESM-Fit
sres, ESM - FIT
c_atm

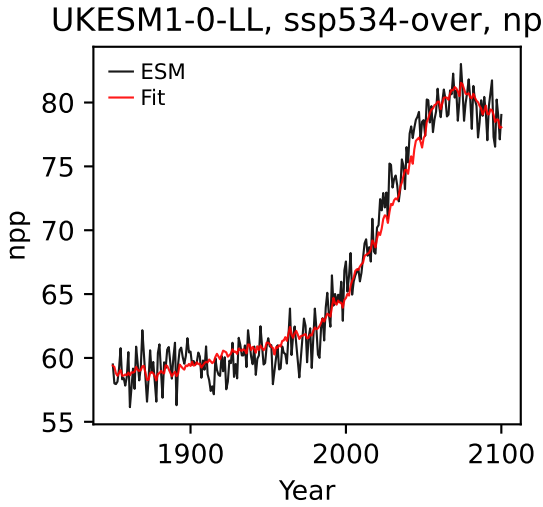

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
081, -0.0602, 128.1924, -0.6124, -0.0340, 0.2000, 0.9980, 0.7556, 0
UKESM1-0-LL
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5

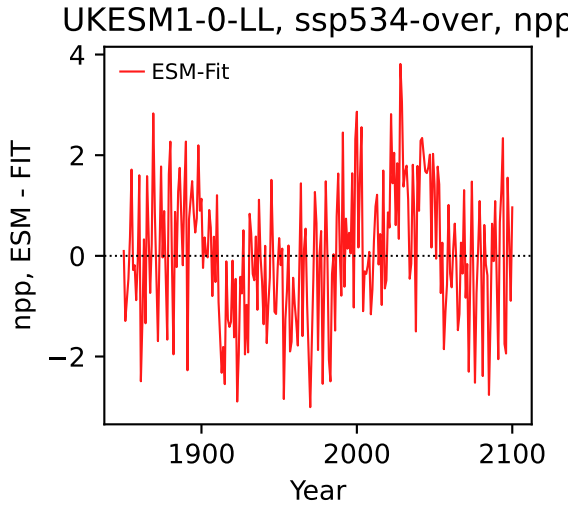

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
081, -0.0602, 128.1924, -0.6124, -0.0340, 0.2000, 0.9980, 0.7556, 0
sres_c_half
sres_c_l
UKESM1-0-LL
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00
0.25

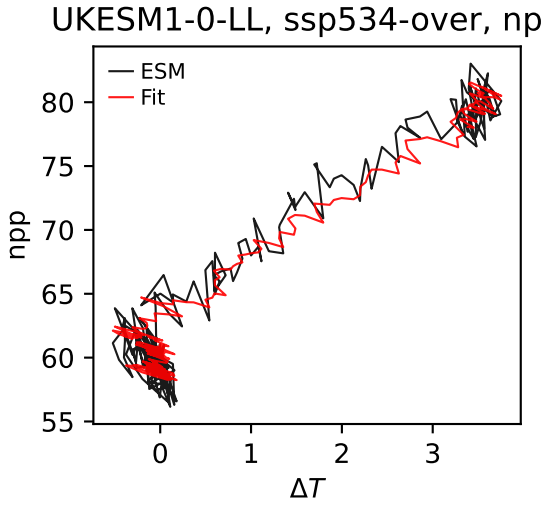

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
081, -0.0602, 128.1924, -0.6124, -0.0340, 0.2000, 0.9980, 0.7556, 0
UKESM1-0-LL
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.5
9.5
8.5
7.5
6.5
5.5
4.5
3.5
2.5

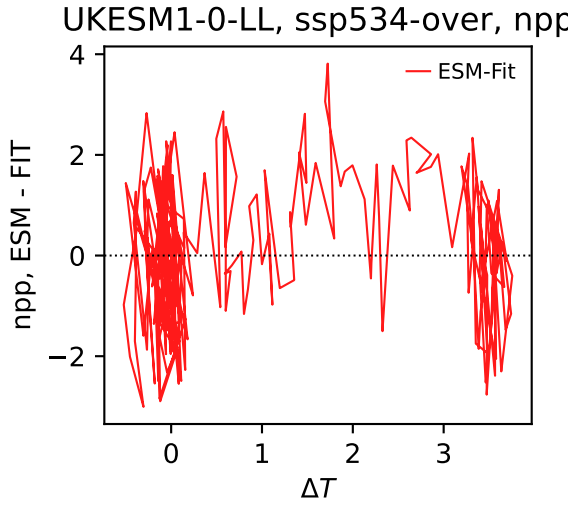

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
081, -0.0602, 128.1924, -0.6124, -0.0340, 0.2000, 0.9980, 0.7556, 0
0.04
0.02
0.00
−0.02
−0.04
sres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
sres_c_tan
5.6
5.0
4.4
3.8
3.2
2.6
2.0
1.4
0.8
0.2

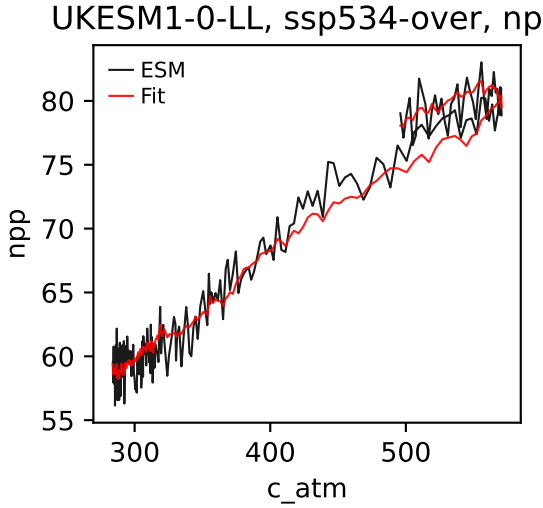

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
081, -0.0602, 128.1924, -0.6124, -0.0340, 0.2000, 0.9980, 0.7556, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
0.90
0.92
0.94
0.96
0.98
1.00
sres_fast
6.2
5.4
4.6
3.8
3.0
2.2
1.4
0.6

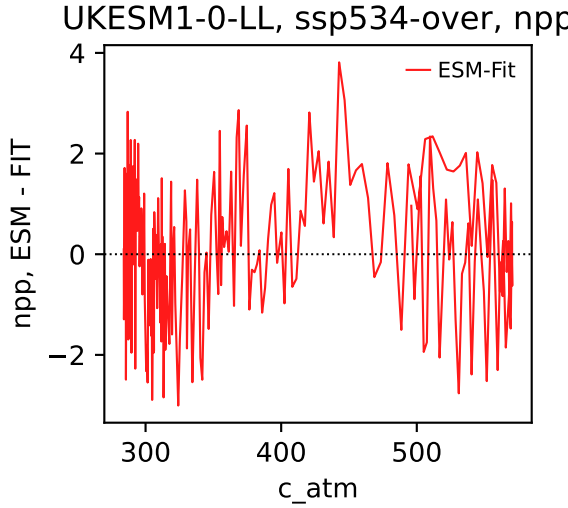

UKESM1-0-LL, ssp534-over, npp
ESM
Fit
npp
Year

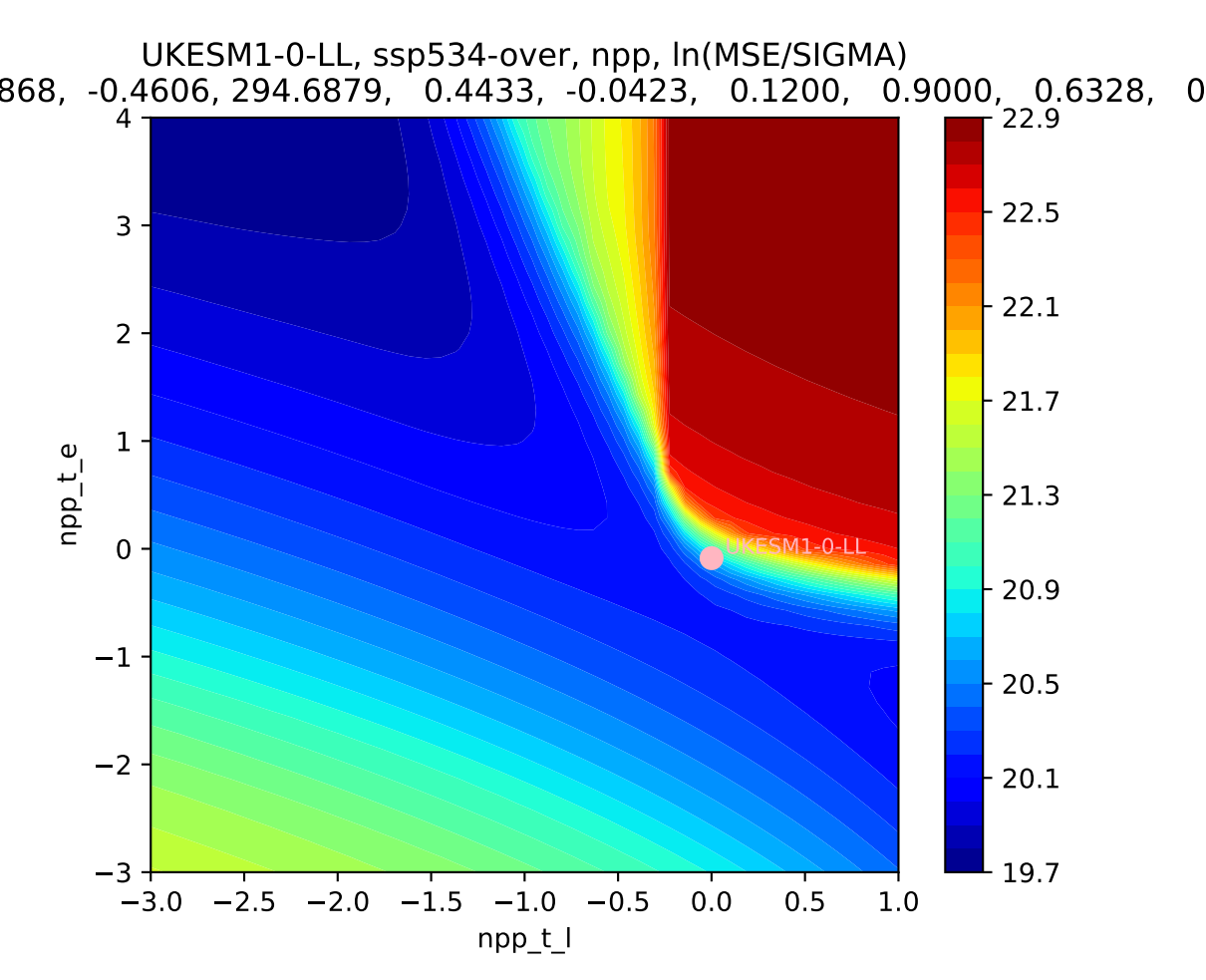

UKESM1-0-LL, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
Year

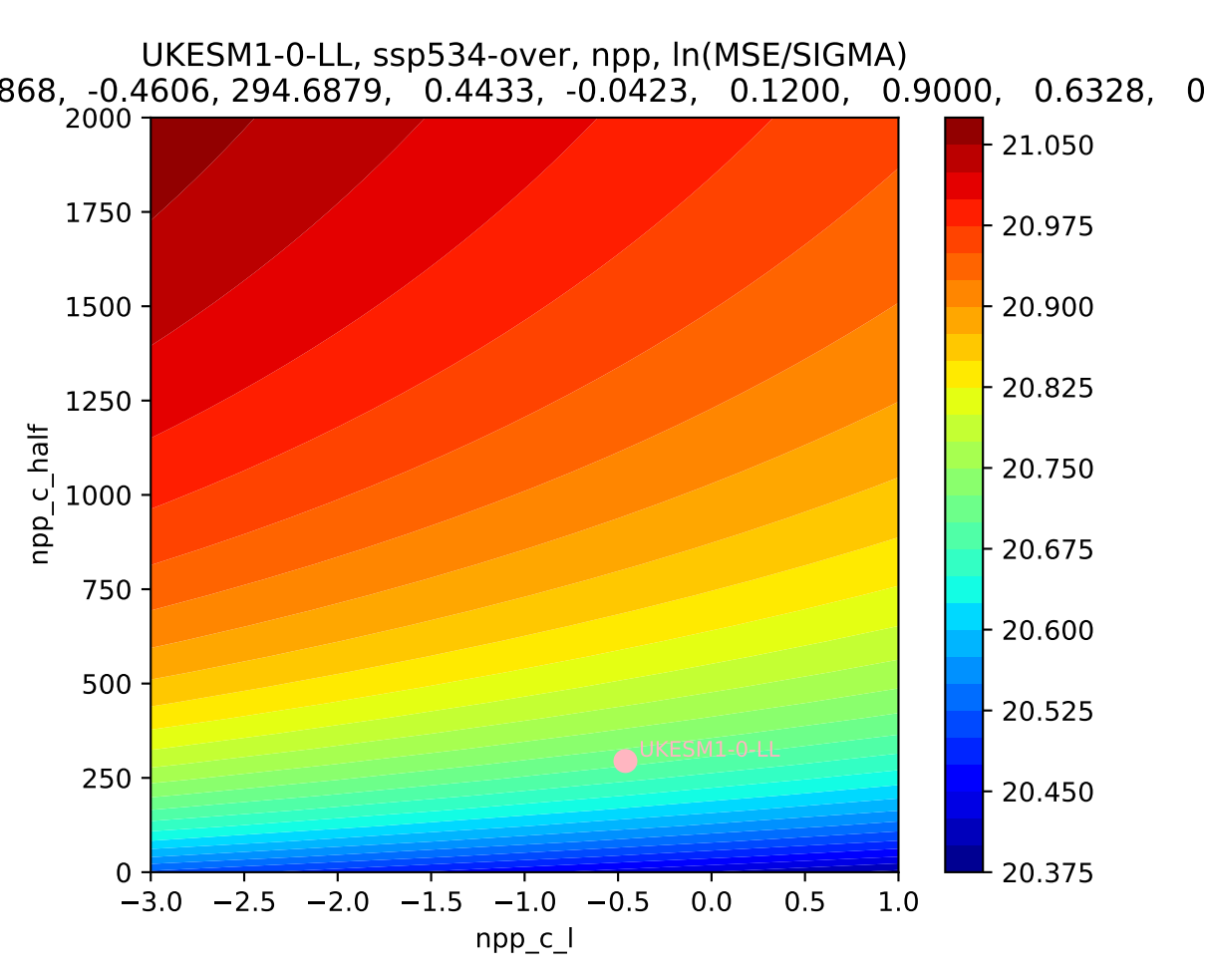

UKESM1-0-LL, ssp534-over, npp
ESM
Fit
npp
ΔT

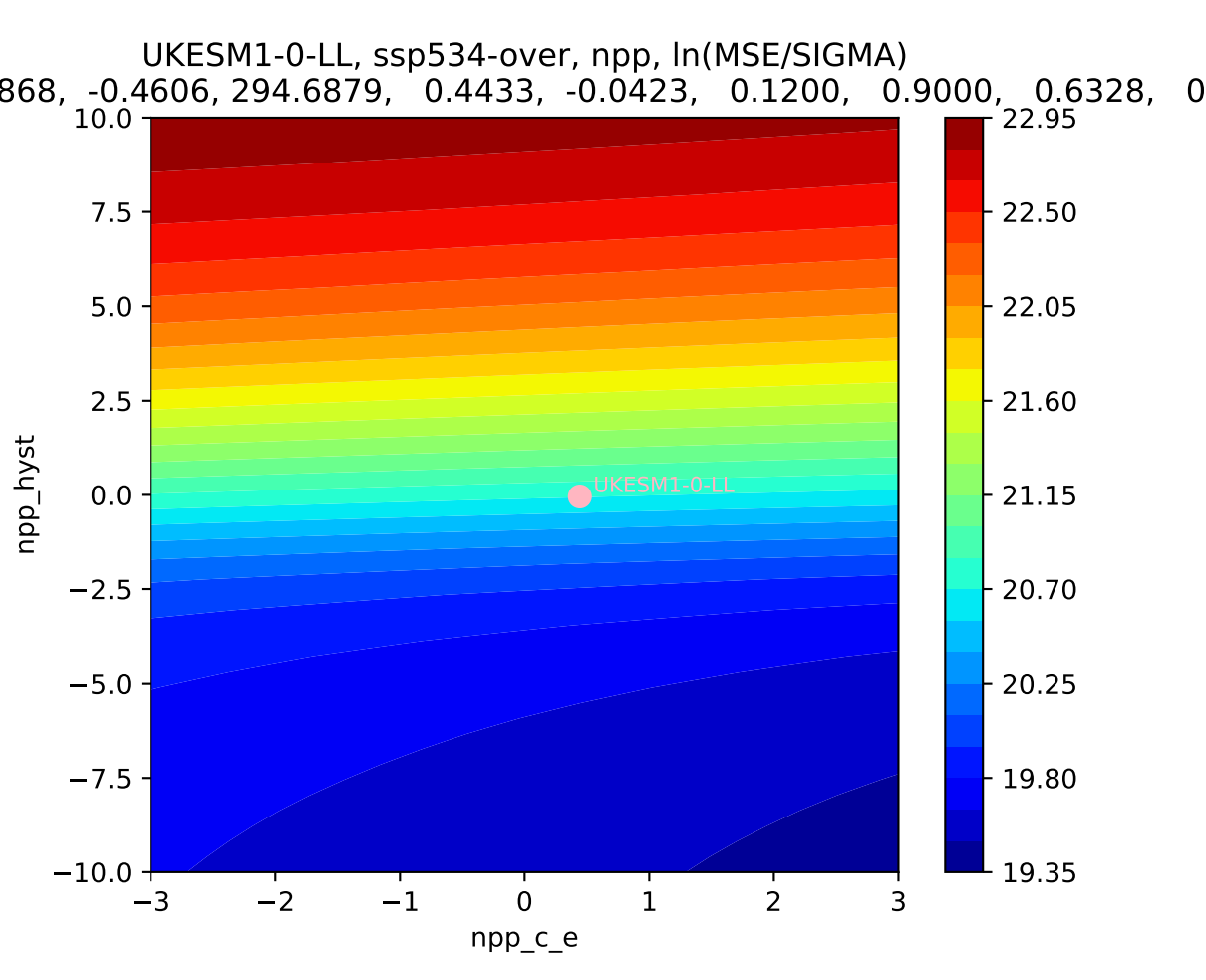

UKESM1-0-LL, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
ΔT

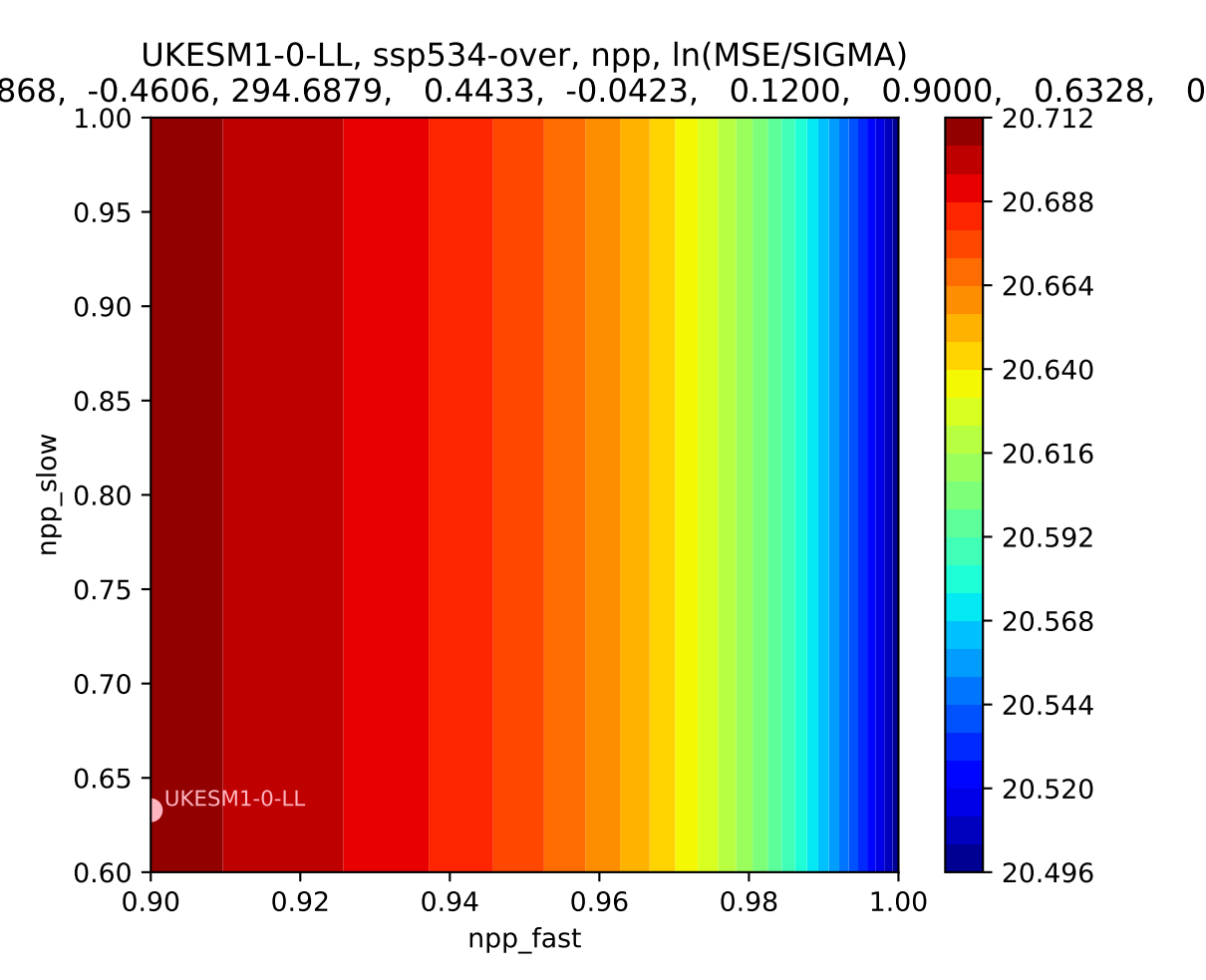

UKESM1-0-LL, ssp534-over, npp
ESM
Fit
npp
c_atm

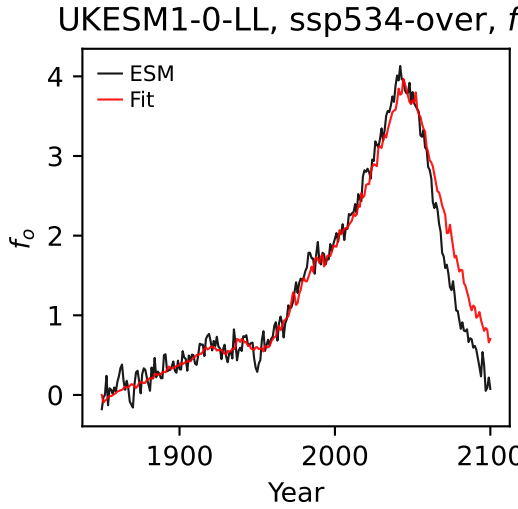

UKESM1-0-LL, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
c_atm

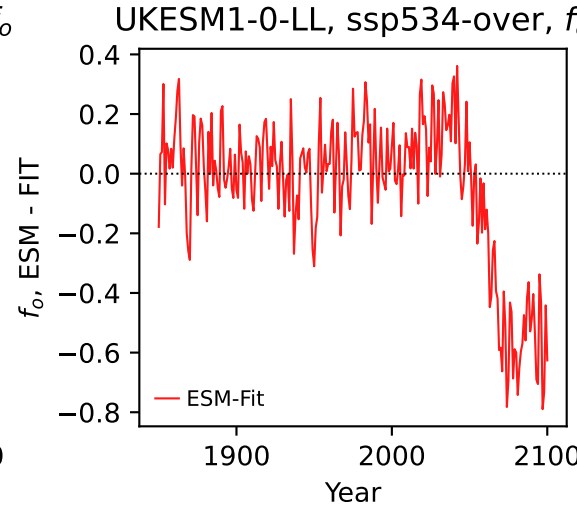

UKESM1-0-LL, ssp534-over, npp, ln(MSE/SIGMA)
868, -0.4606, 294.6879, 0.4433, -0.0423, 0.1200, 0.9000, 0.6328, 0
UKESM1-0-LL
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.9
22.5
22.1
21.7
21.3
20.9
20.5
20.1
19.7

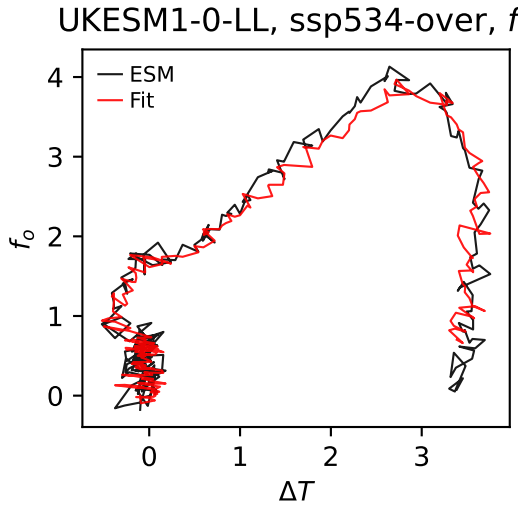

UKESM1-0-LL, ssp534-over, npp, ln(MSE/SIGMA)
868, -0.4606, 294.6879, 0.4433, -0.0423, 0.1200, 0.9000, 0.6328, 0
npp_c_half
npp_c_l
UKESM1-0-LL
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
21.050
20.975
20.900
20.825
20.750
20.675
20.600
20.525
20.450
20.375

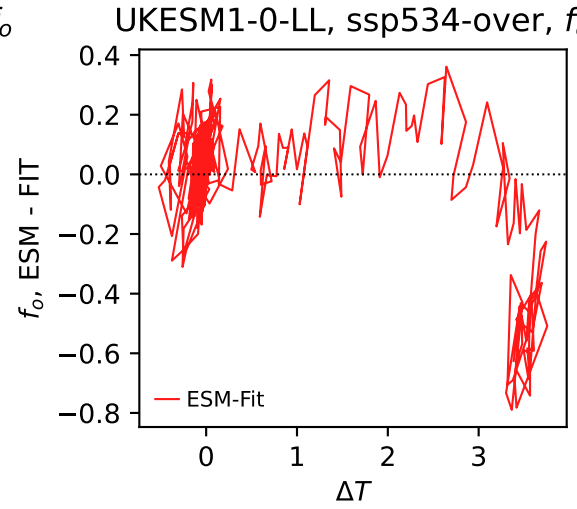

UKESM1-0-LL, ssp534-over, npp, ln(MSE/SIGMA)
868, -0.4606, 294.6879, 0.4433, -0.0423, 0.1200, 0.9000, 0.6328, 0
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
npp_hyst
UKESM1-0-LL
−3
−2
−1
0
1
2
3
npp_c_e
22.95
22.50
22.05
21.60
21.15
20.70
20.25
19.80
19.35

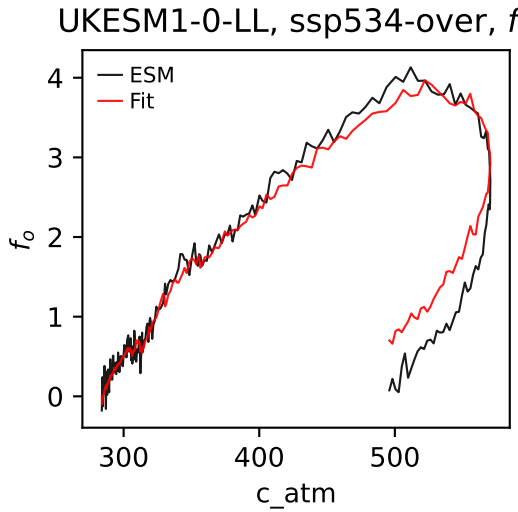

UKESM1-0-LL, ssp534-over, npp, ln(MSE/SIGMA)
868, -0.4606, 294.6879, 0.4433, -0.0423, 0.1200, 0.9000, 0.6328, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
UKESM1-0-LL
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
20.712
20.688
20.664
20.640
20.616
20.592
20.568
20.544
20.520
20.496

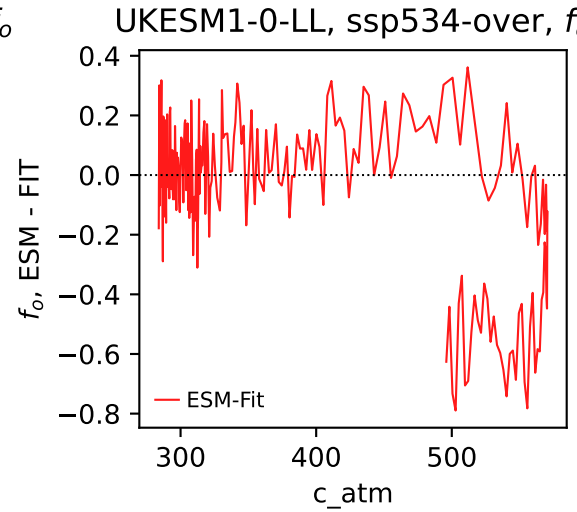

UKESM1-0-LL, ssp534-over, f_o
ESM
Fit
f_o
Year

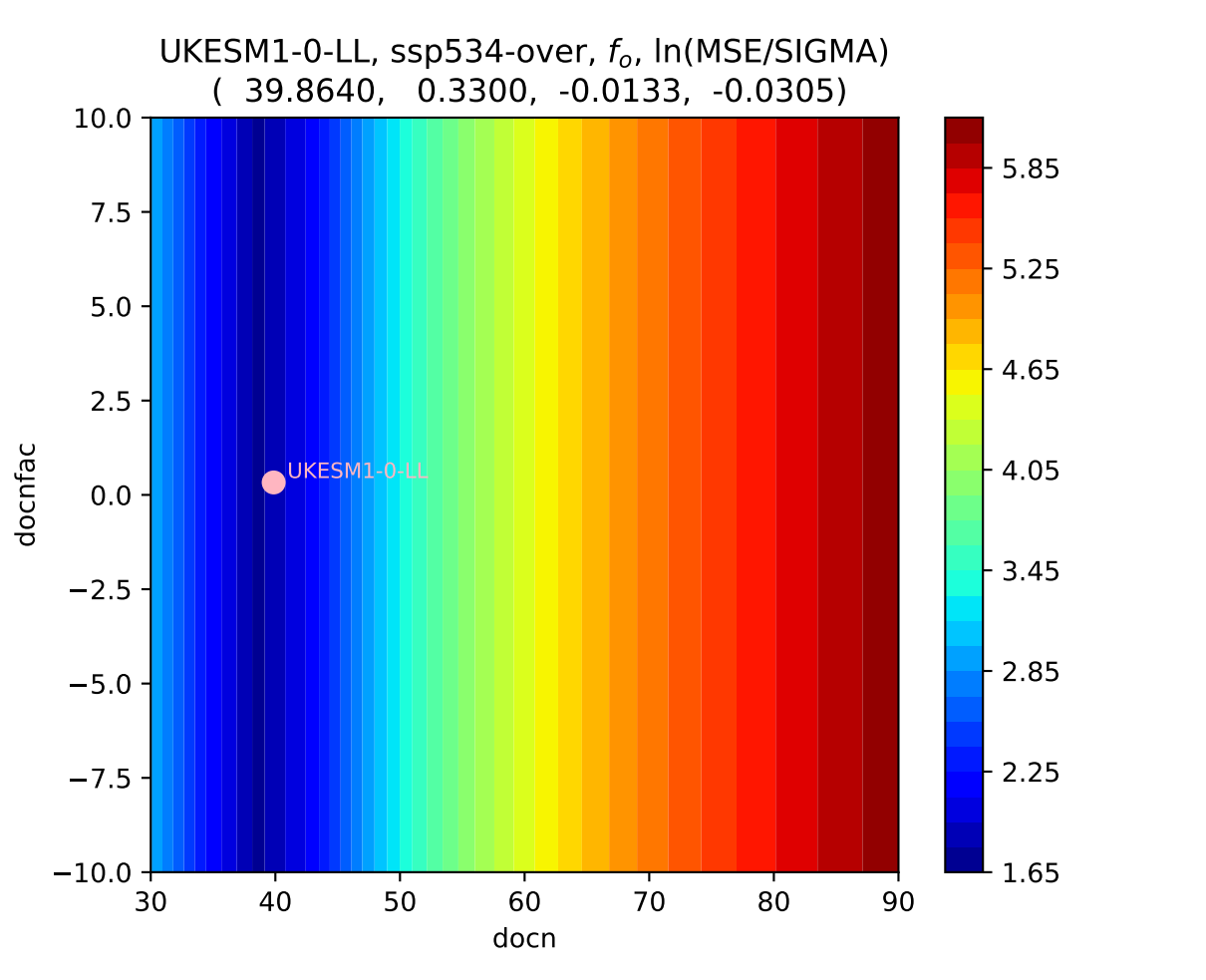

UKESM1-0-LL, ssp534-over, f_o
f_o, ESM - FIT
ESM-Fit
Year

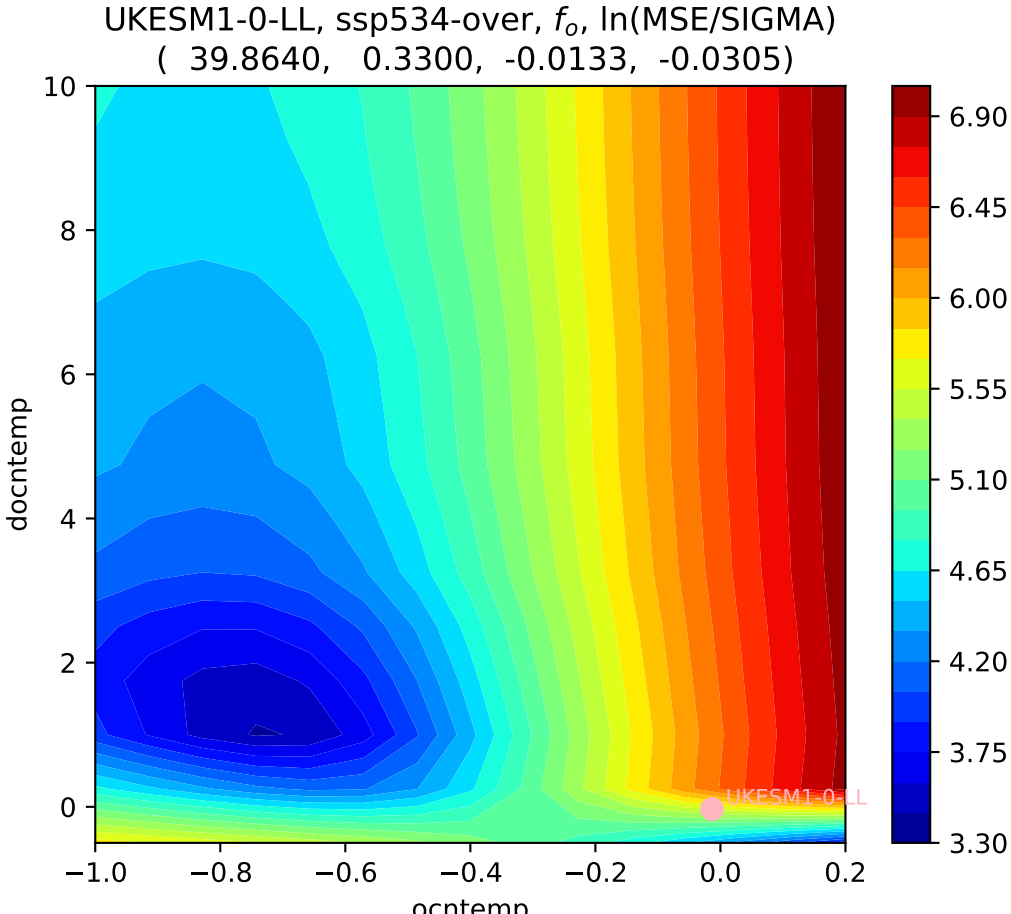

UKESM1-0-LL, ssp534-over, f_o
ESM
Fit
f_o
ΔT


UKESM1-0-LL, ssp534-over, f_o
f_o, ESM - FIT
ESM-Fit
ΔT


UKESM1-0-LL, ssp534-over, f_o
ESM
Fit
f_o
c_atm


UKESM1-0-LL, ssp534-over, f_o
f_o, ESM - FIT
ESM-Fit
c_atm


UKESM1-0-LL, ssp534-over, f_o, ln(MSE/SIGMA)
(39.8640, 0.3300, -0.0133, -0.0305)
UKESM1-0-LL
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
5.85
5.25
4.65
4.05
3.45
2.85
2.25
1.65


UKESM1-0-LL, ssp534-over, f_o, ln(MSE/SIGMA)
(39.8640, 0.3300, -0.0133, -0.0305)
10
8
6
4
2
0
docntemp
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
ocntemp
UKESM1-0-LL
6.90
6.45
6.00
5.55
5.10
4.65
4.20
3.75
3.30