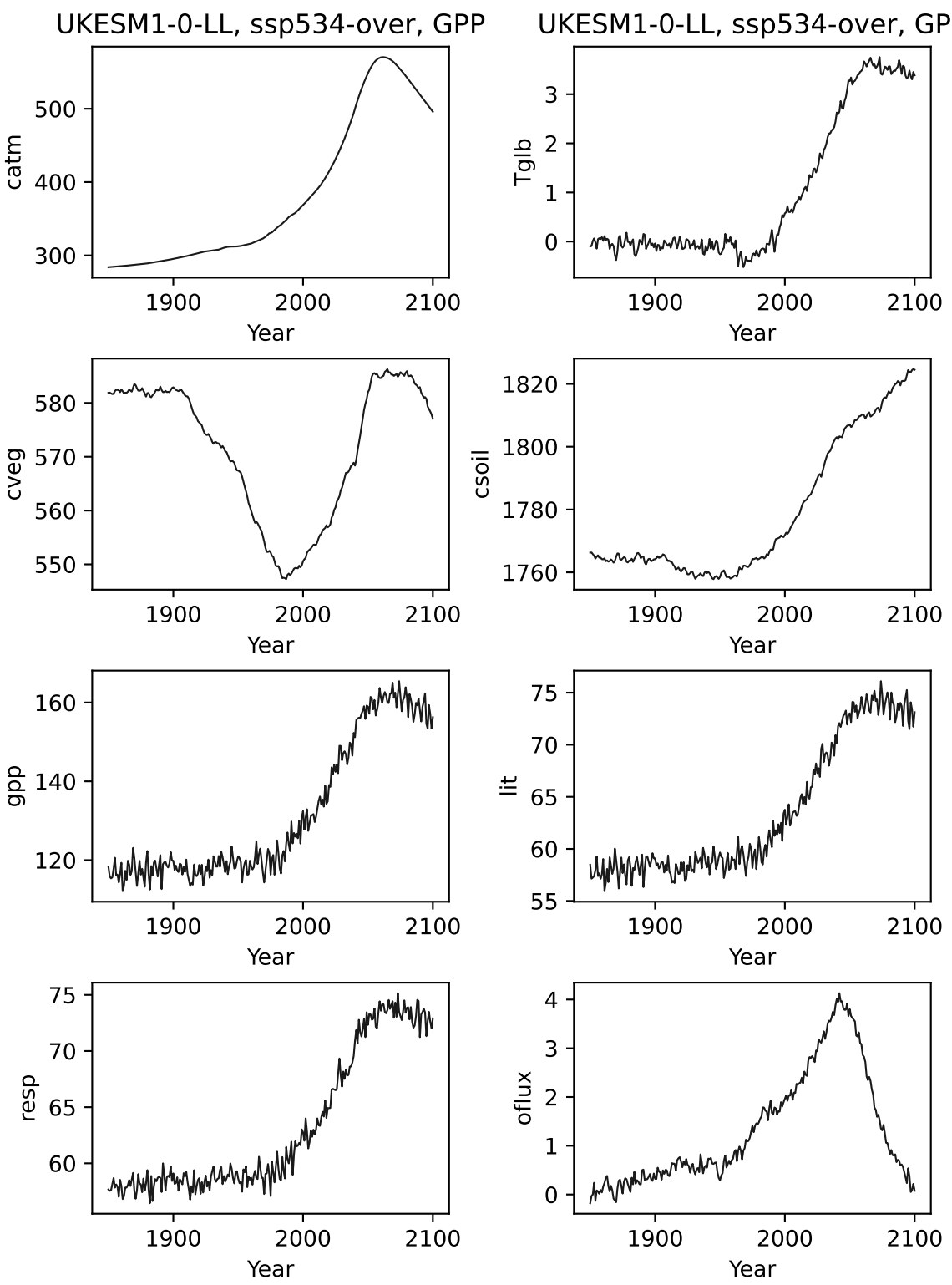
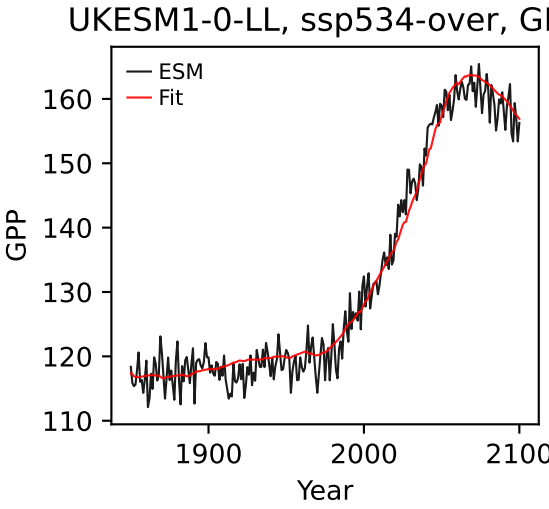
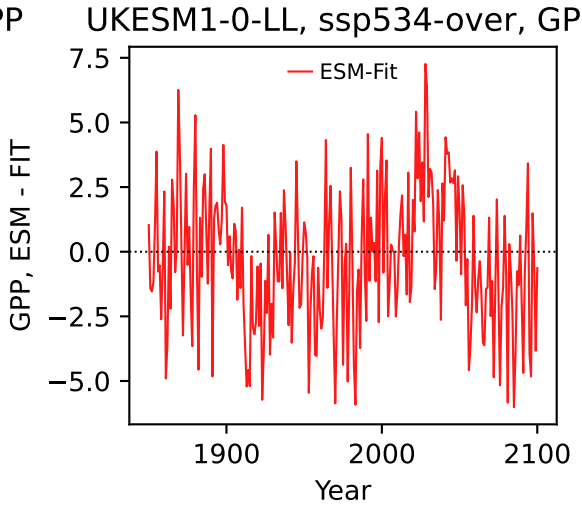
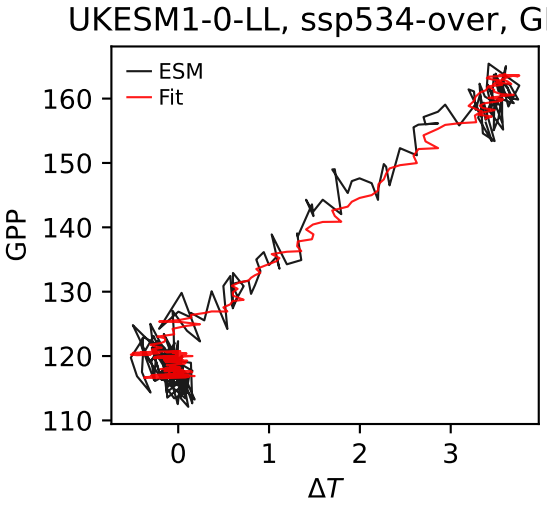
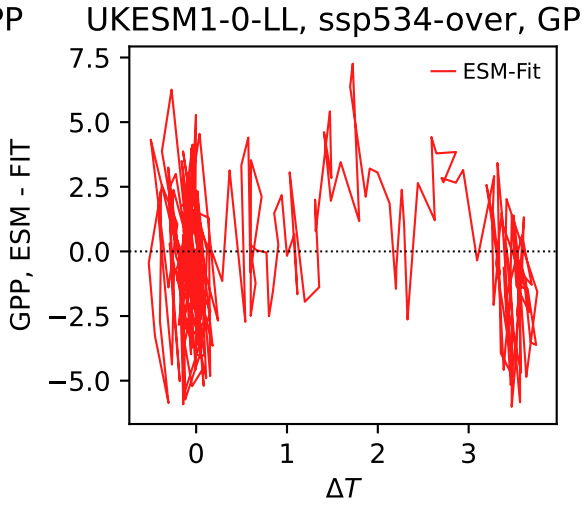
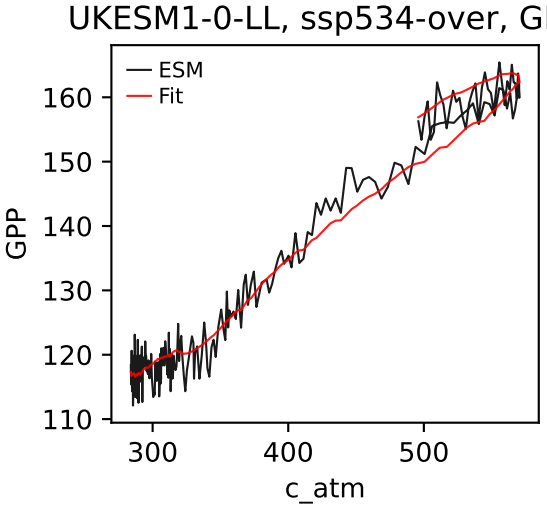

UKESM1-0-LL, ssp534-over, GPP
catm
Year
UKESM1-0-LL, ssp534-over, GPP
Tglb
Year
cveg
Year
csoil
Year
gpp
Year
lit
Year
resp
Year
oflux
Year

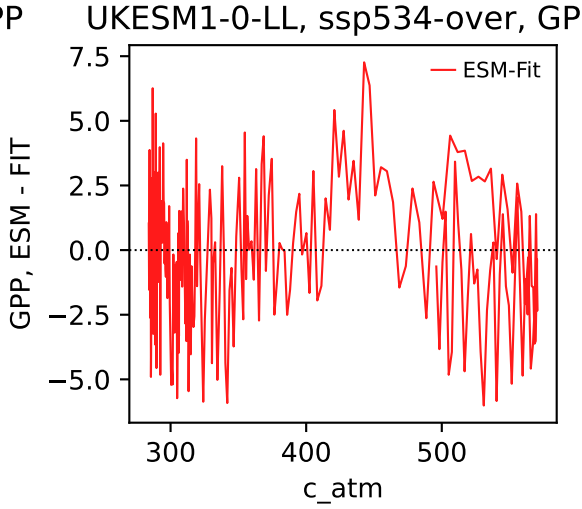

UKESM1-0-LL, ssp534-over, GPP
ESM
Fit
GPP
Year

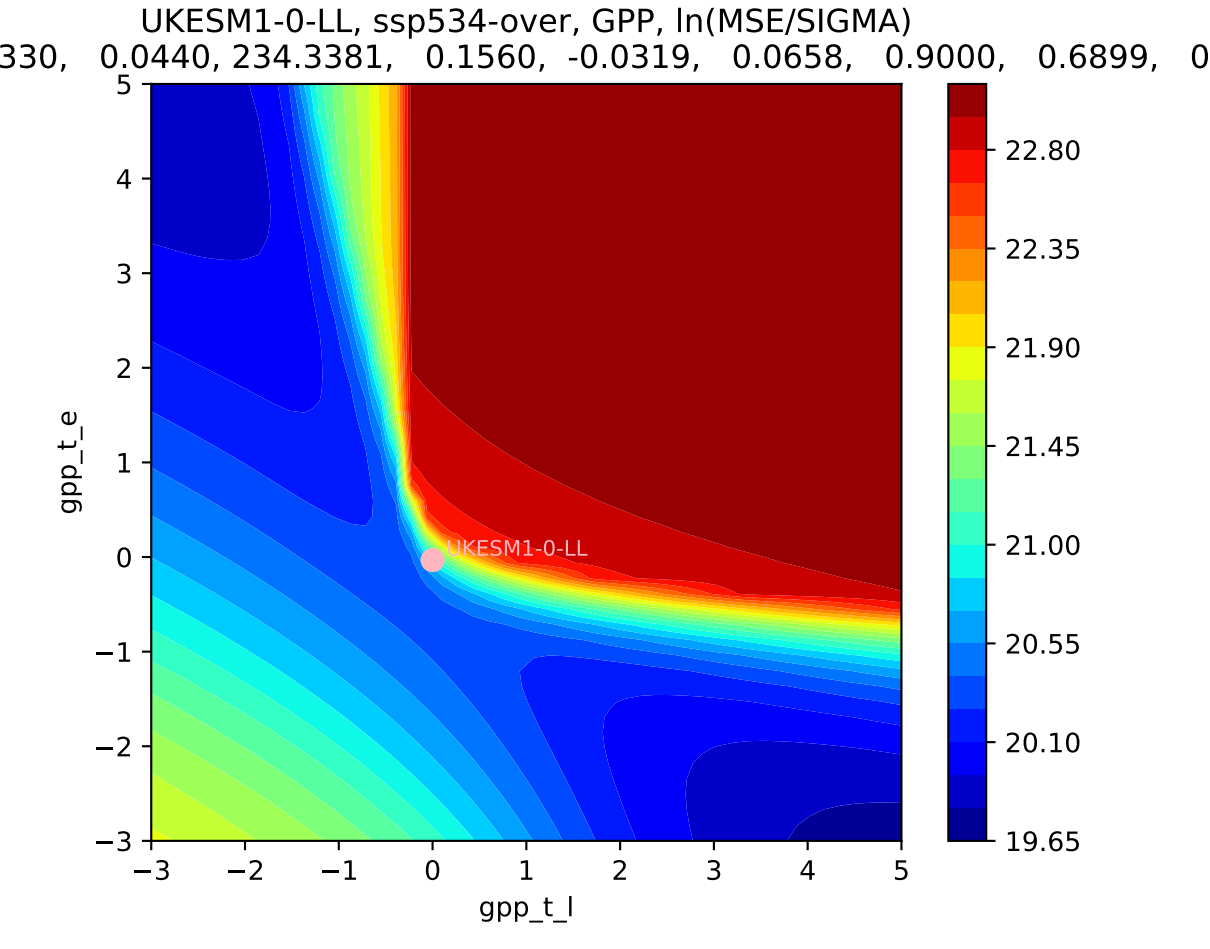

UKESM1-0-LL, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
Year

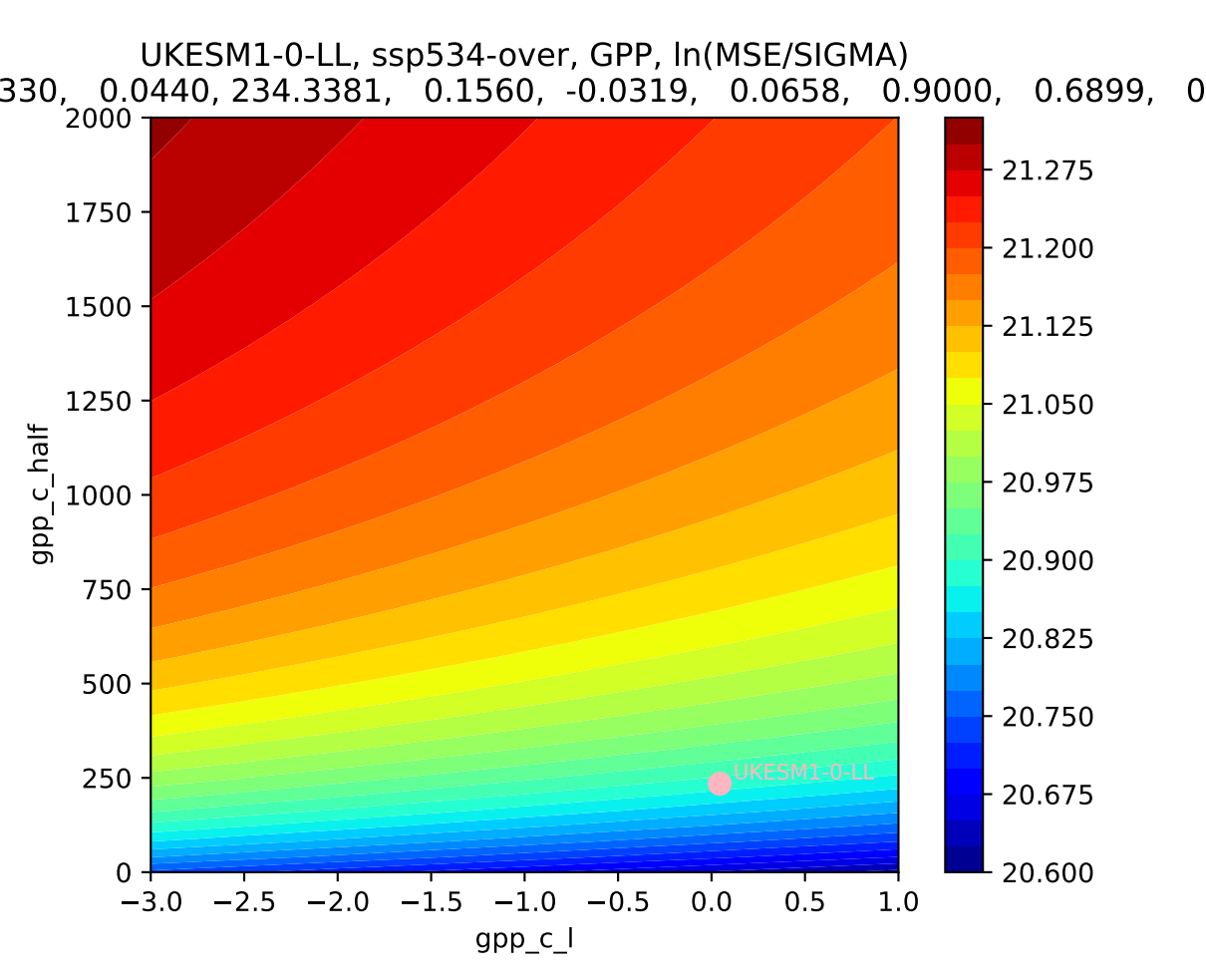

UKESM1-0-LL, ssp534-over, GPP
ESM
Fit
GPP
ΔT

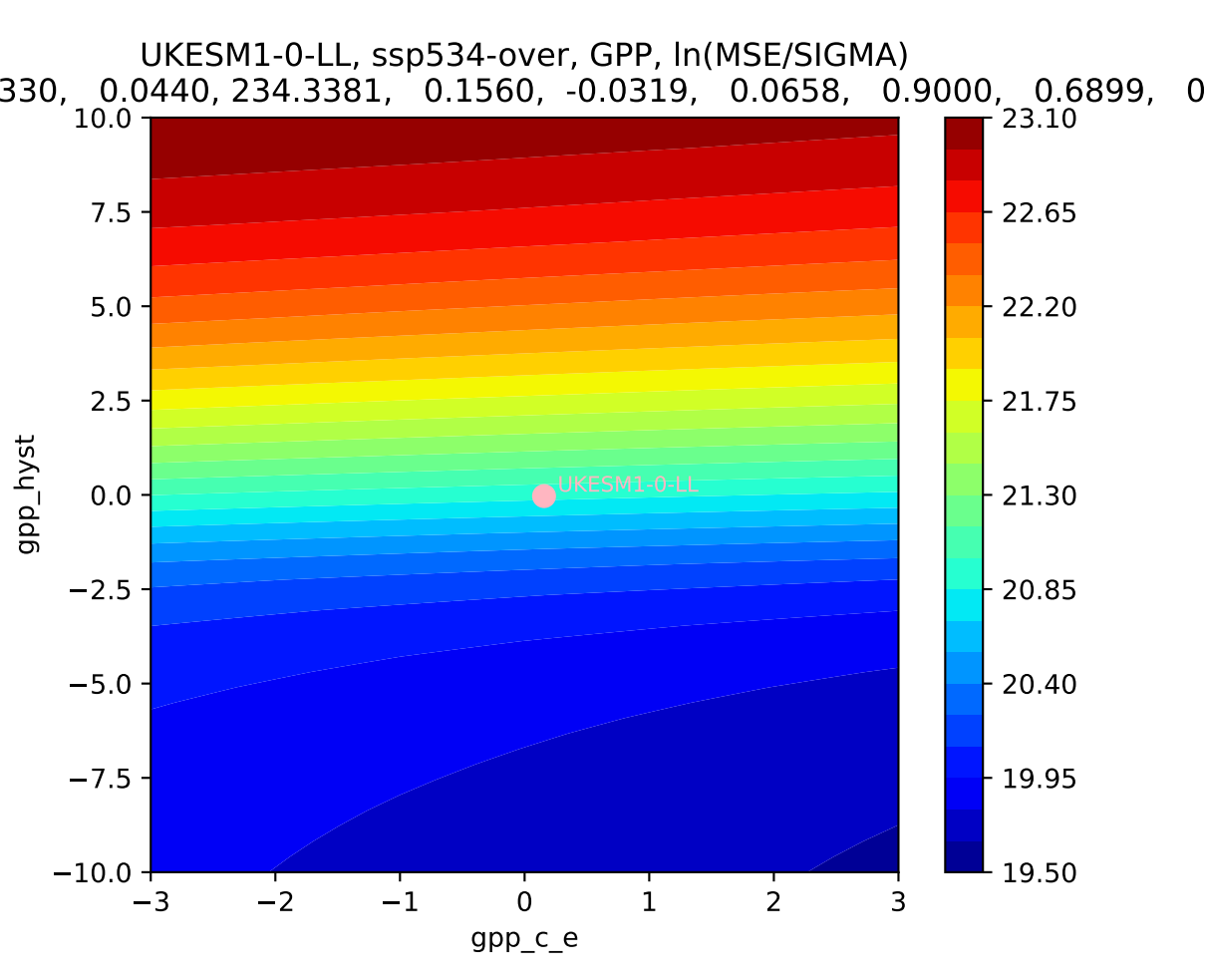

UKESM1-0-LL, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

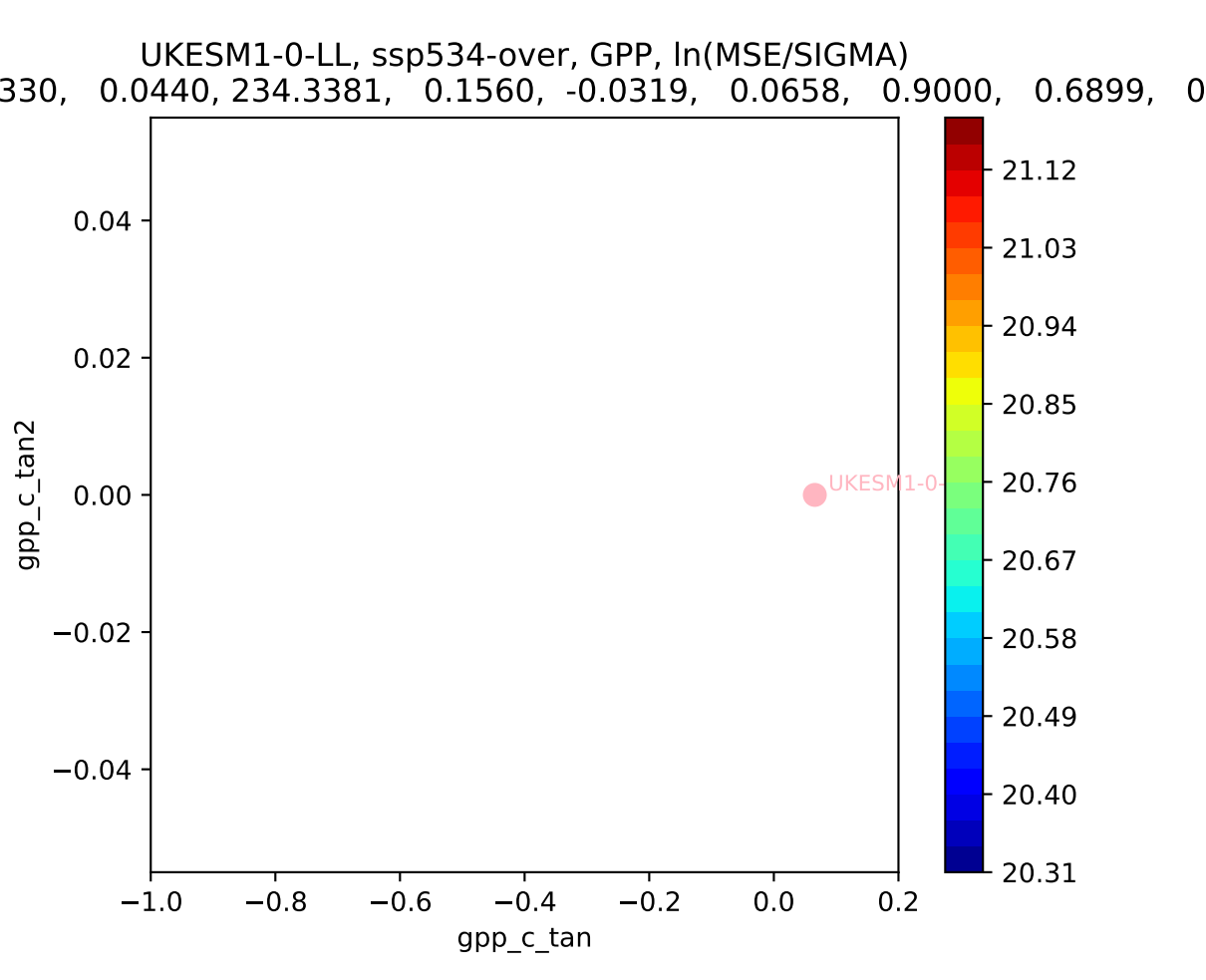

UKESM1-0-LL, ssp534-over, GPP
ESM
Fit
GPP
c_atm

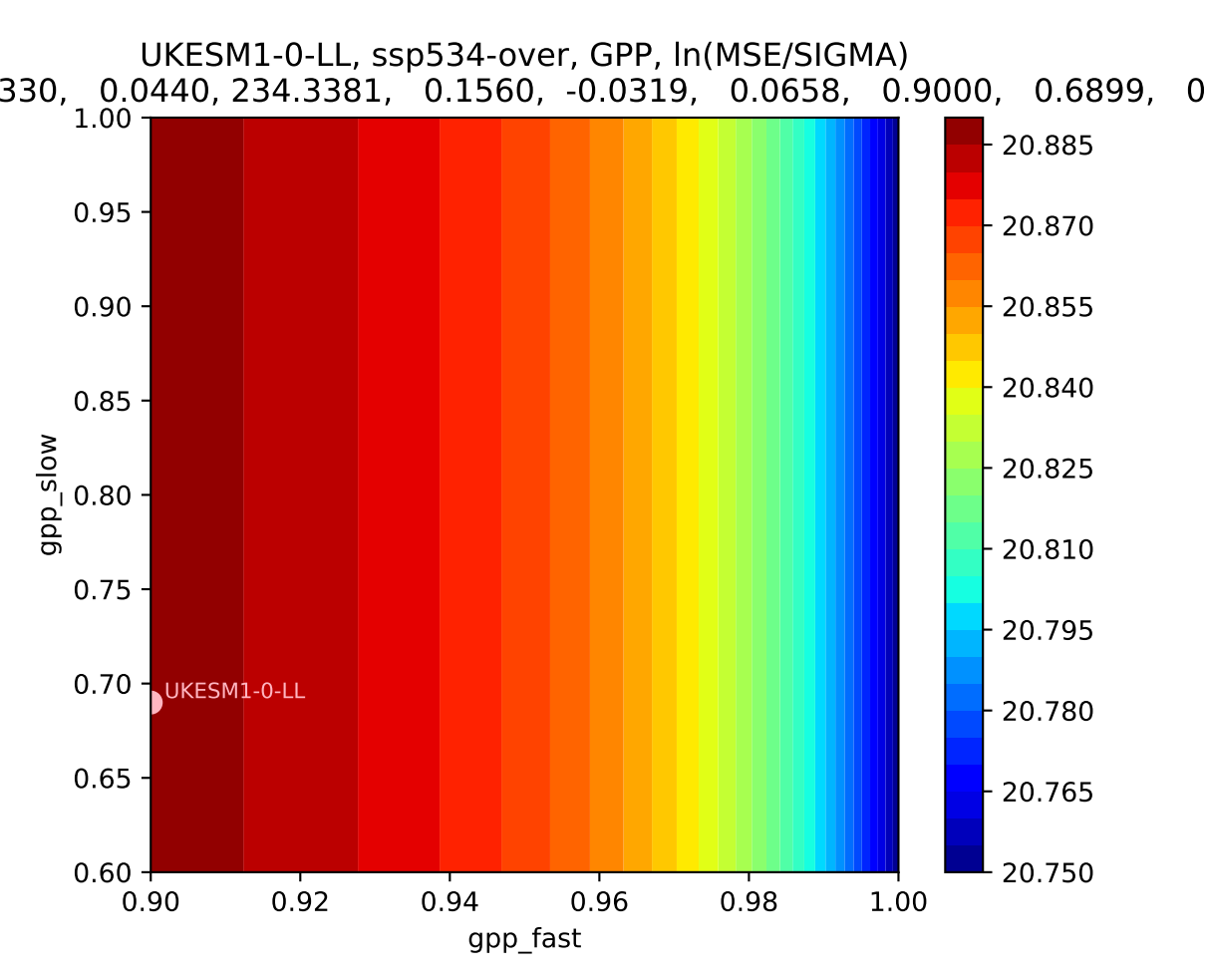

UKESM1-0-LL, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

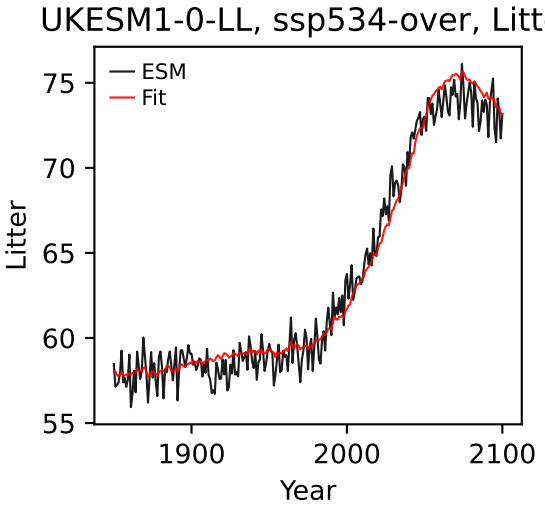

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
330, 0.0440, 234.3381, 0.1560, -0.0319, 0.0658, 0.9000, 0.6899, 0
UKESM1-0-LL
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
22.80
22.35
21.90
21.45
21.00
20.55
20.10
19.65

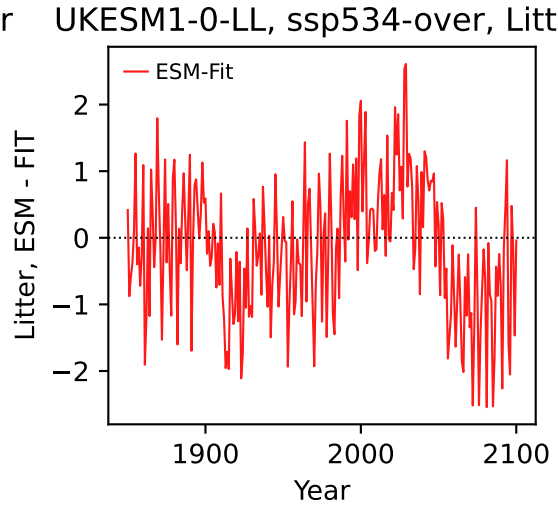

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
330, 0.0440, 234.3381, 0.1560, -0.0319, 0.0658, 0.9000, 0.6899, 0
gpp_c_half
gpp_c_l
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
21.275
21.200
21.125
21.050
20.975
20.900
20.825
20.750
20.675
20.600
UKESM1-0-LL

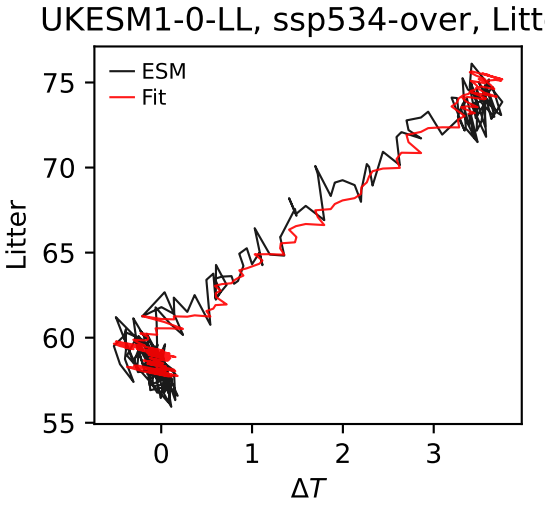

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
330, 0.0440, 234.3381, 0.1560, -0.0319, 0.0658, 0.9000, 0.6899, 0
gpp_hyst
gpp_c_e
UKESM1-0-LL
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
23.10
22.65
22.20
21.75
21.30
20.85
20.40
19.95
19.50

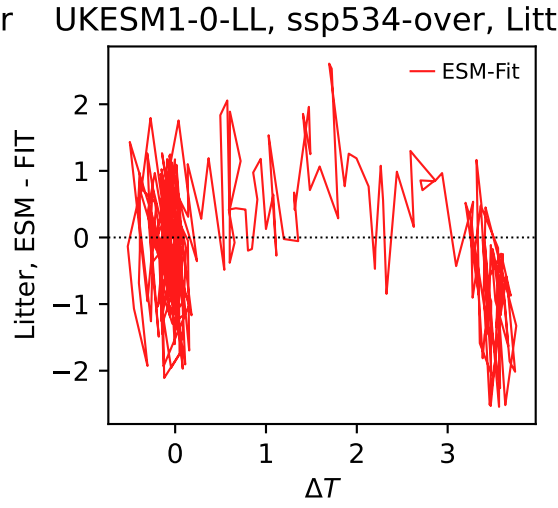

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
330, 0.0440, 234.3381, 0.1560, -0.0319, 0.0658, 0.9000, 0.6899, 0
gpp_c_tan2
gpp_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
21.12
21.03
20.94
20.85
20.76
20.67
20.58
20.49
20.40
20.31
UKESM1-0-

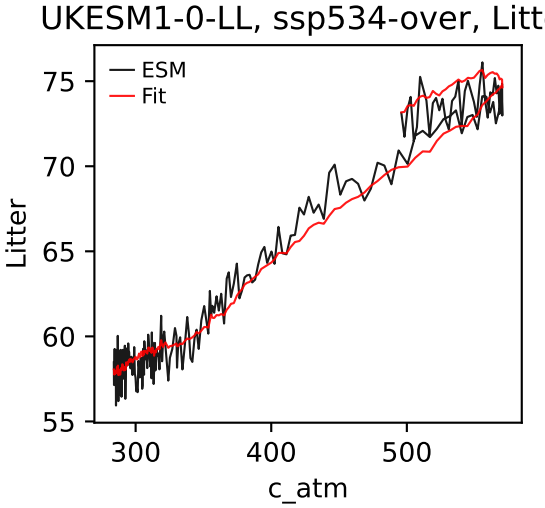

UKESM1-0-LL, ssp534-over, GPP, ln(MSE/SIGMA)
330, 0.0440, 234.3381, 0.1560, -0.0319, 0.0658, 0.9000, 0.6899, 0
gpp_slow
gpp_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
UKESM1-0-LL
20.885
20.870
20.855
20.840
20.825
20.810
20.795
20.780
20.765
20.750

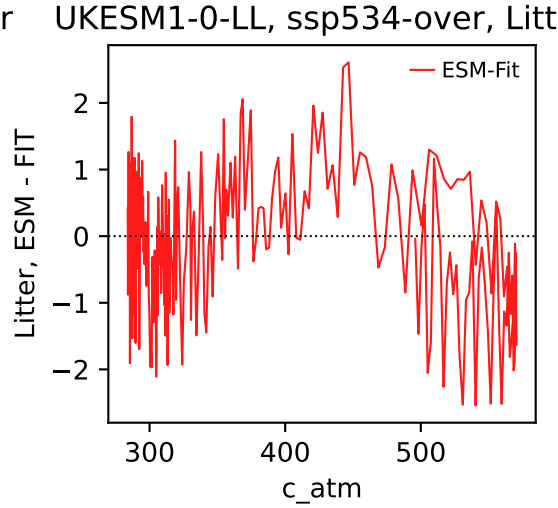

UKESM1-0-LL, ssp534-over, Litter
ESM
Fit
Litter
Year

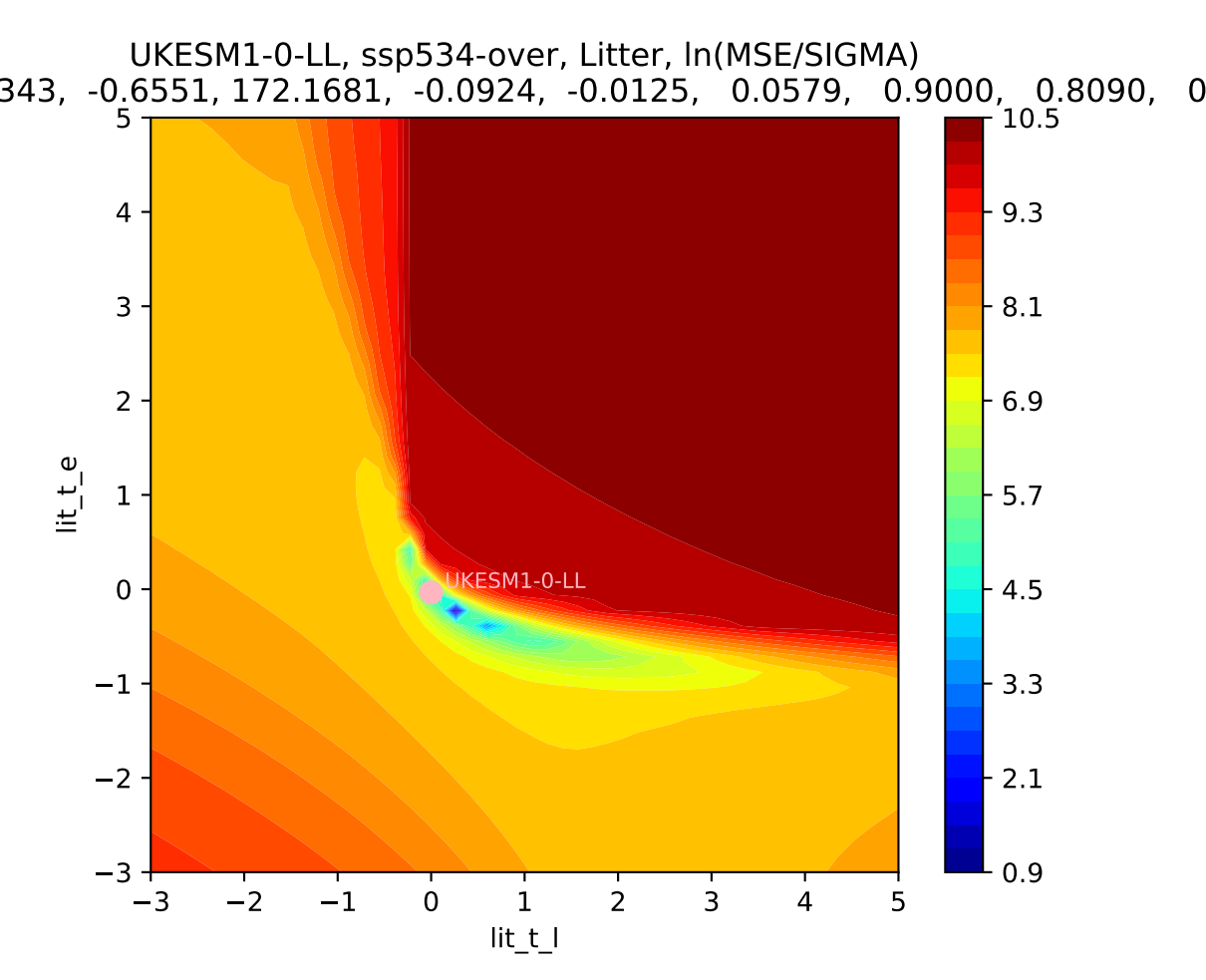

UKESM1-0-LL, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
Year

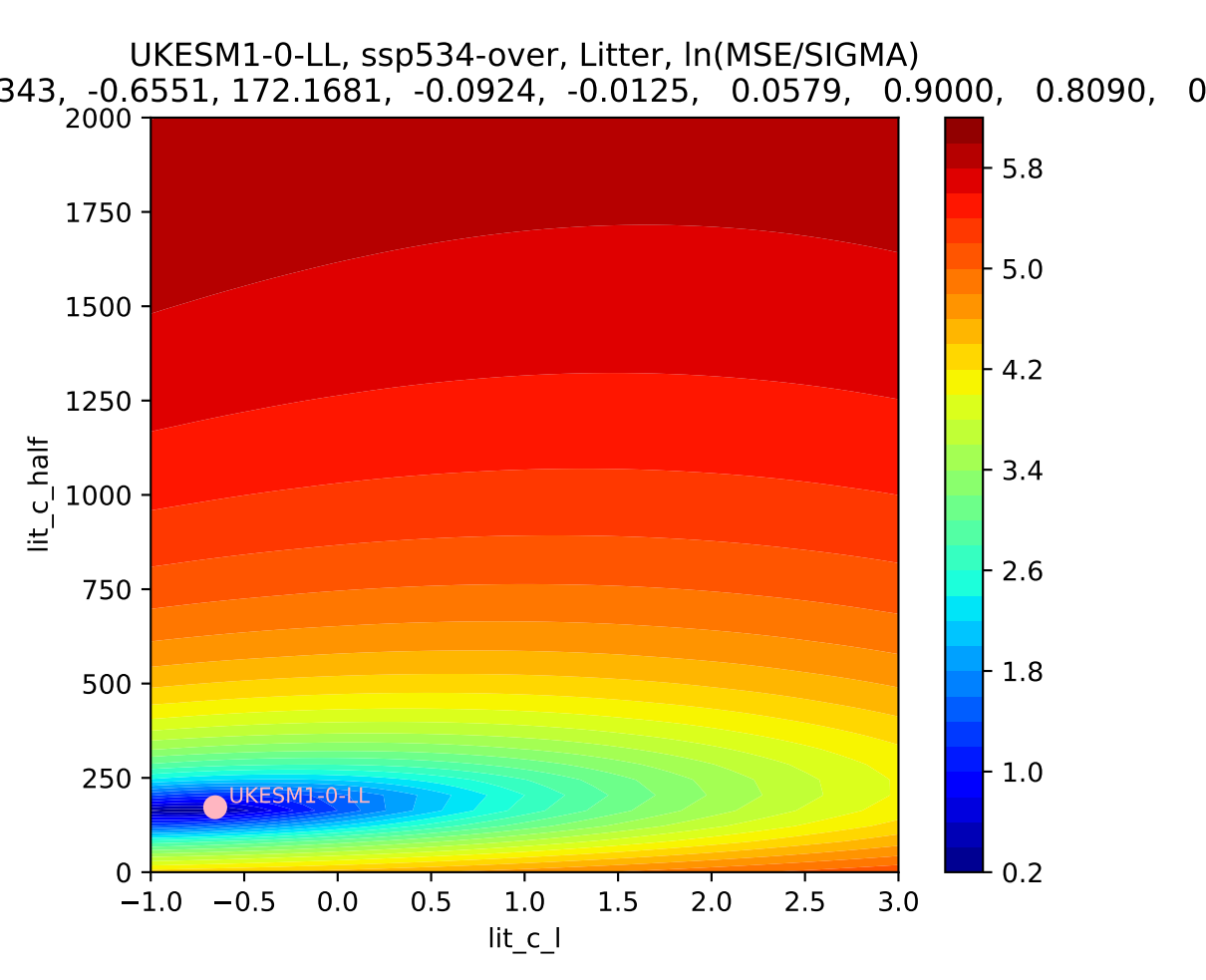

UKESM1-0-LL, ssp534-over, Litter
ESM
Fit
Litter
ΔT

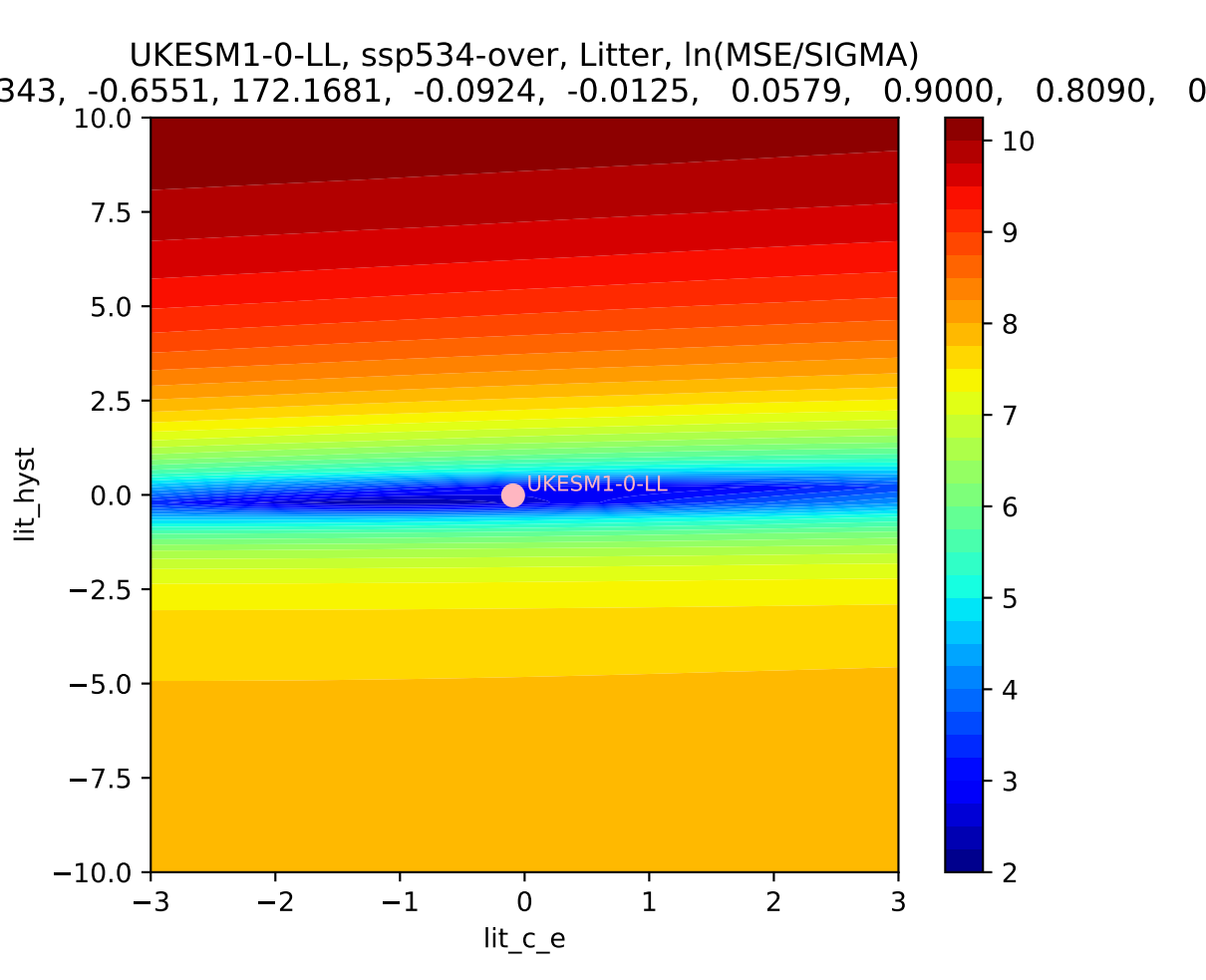

UKESM1-0-LL, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
ΔT

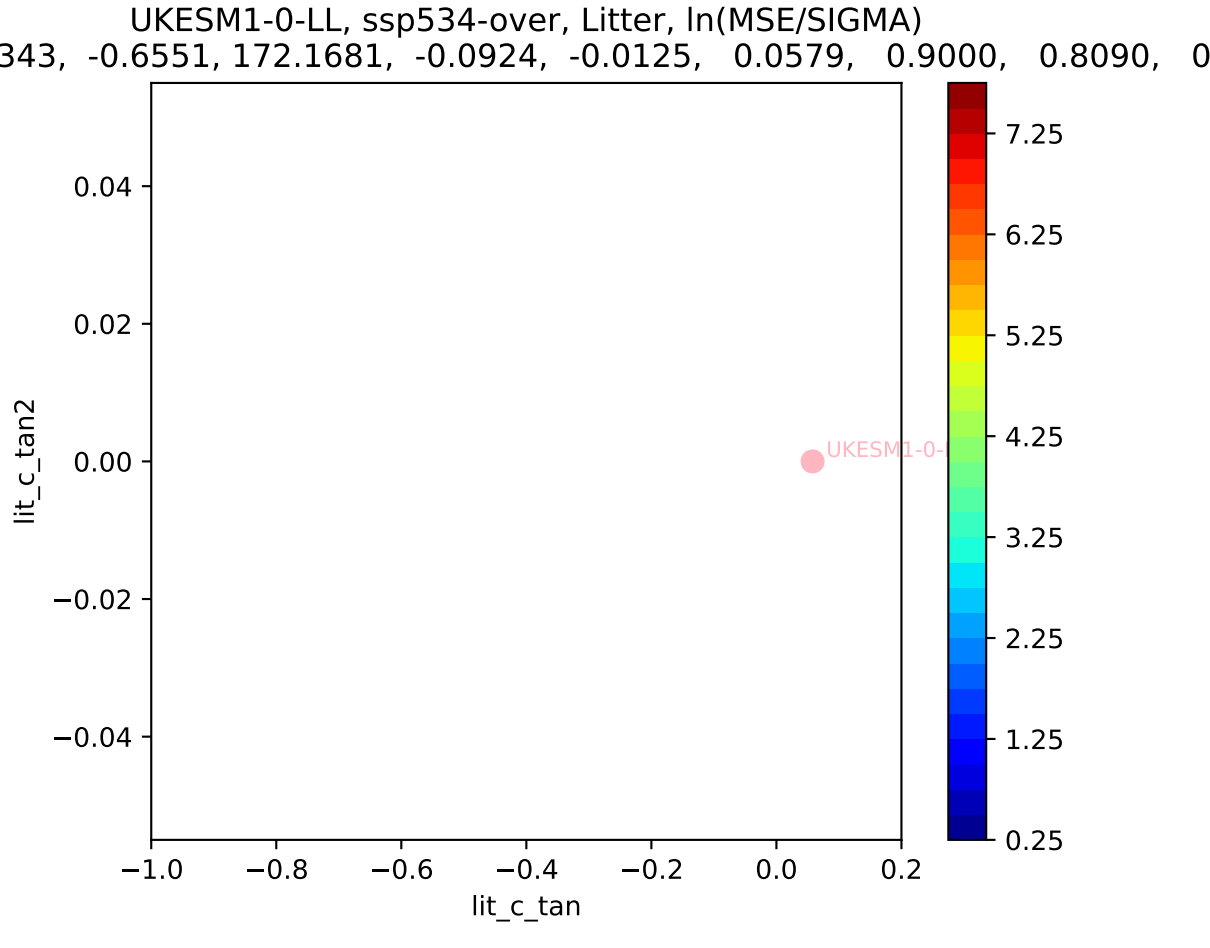

UKESM1-0-LL, ssp534-over, Litter
ESM
Fit
Litter
c_atm

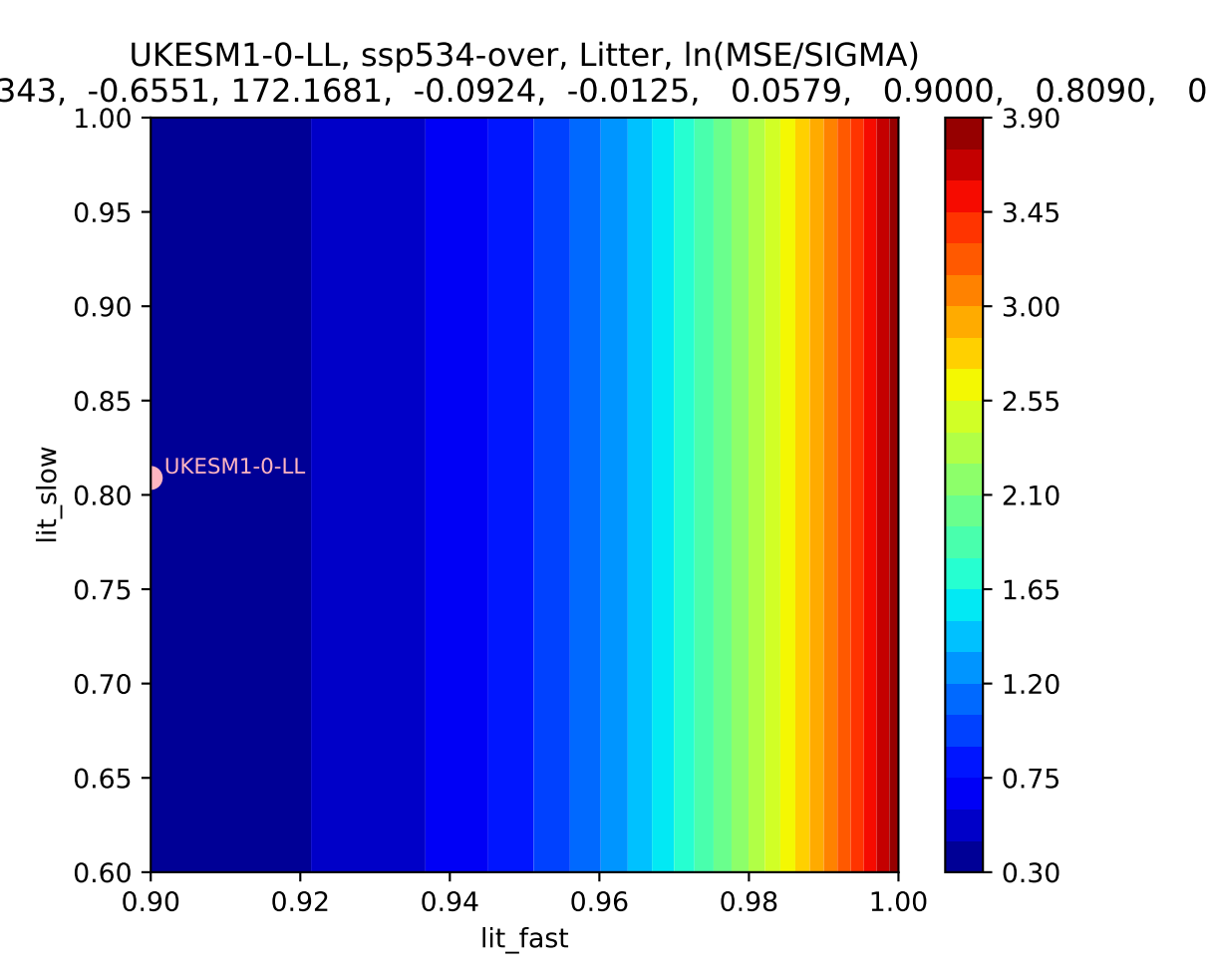

UKESM1-0-LL, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
c_atm

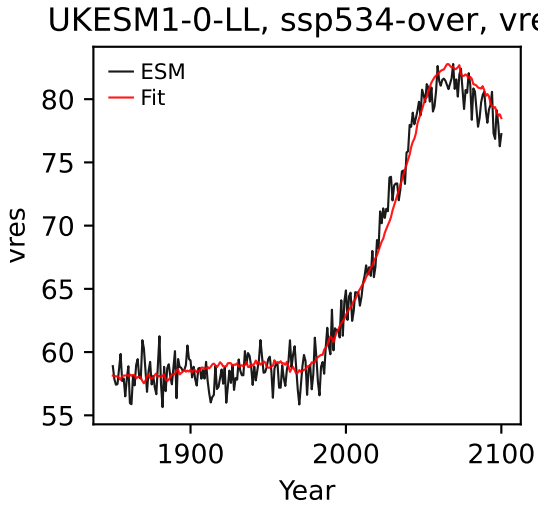

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
343, -0.6551, 172.1681, -0.0924, -0.0125, 0.0579, 0.9000, 0.8090, 0
UKESM1-0-LL
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
10.5
9.3
8.1
6.9
5.7
4.5
3.3
2.1
0.9

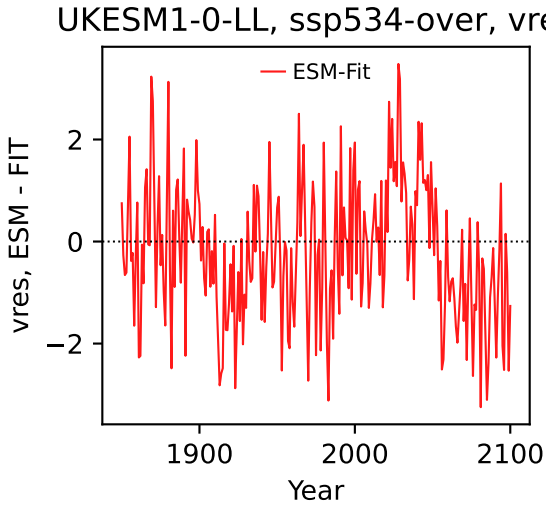

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
343, -0.6551, 172.1681, -0.0924, -0.0125, 0.0579, 0.9000, 0.8090, 0
lit_c_half
lit_c_l
UKESM1-0-LL
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
5.8
5.0
4.2
3.4
2.6
1.8
1.0
0.2

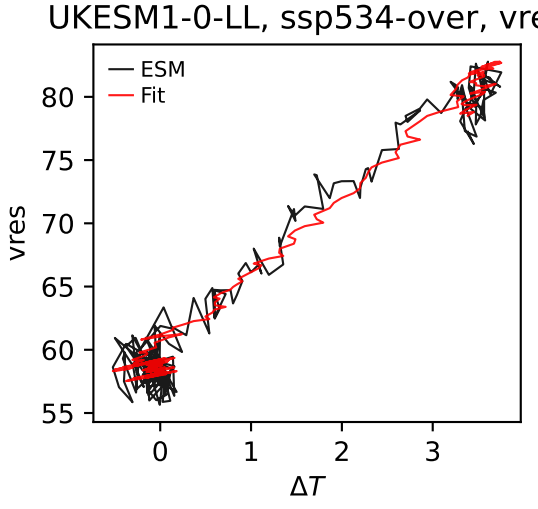

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
343, -0.6551, 172.1681, -0.0924, -0.0125, 0.0579, 0.9000, 0.8090, 0
UKESM1-0-LL
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10
9
8
7
6
5
4
3
2

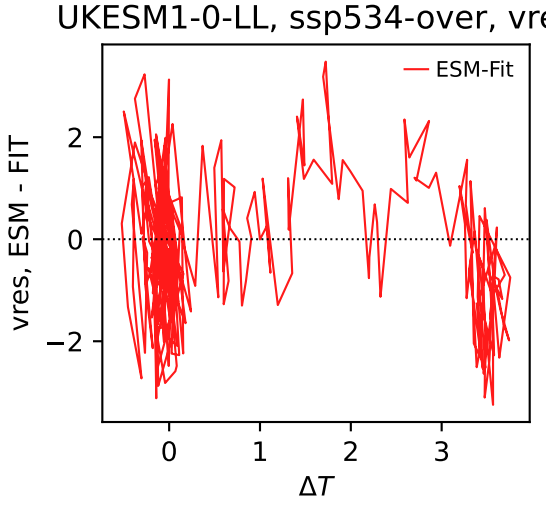

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
343, -0.6551, 172.1681, -0.0924, -0.0125, 0.0579, 0.9000, 0.8090, 0
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

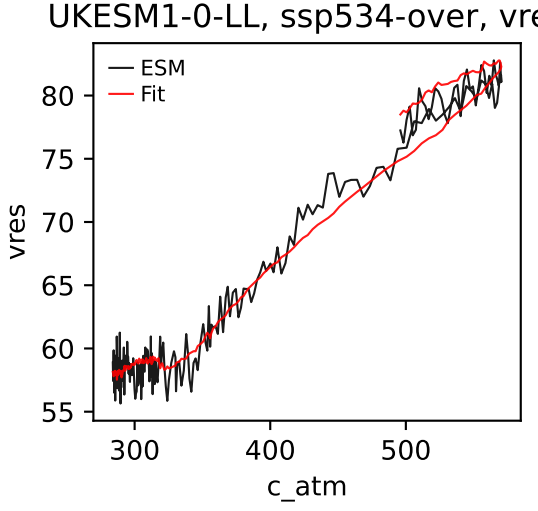

UKESM1-0-LL, ssp534-over, Litter, ln(MSE/SIGMA)
343, -0.6551, 172.1681, -0.0924, -0.0125, 0.0579, 0.9000, 0.8090, 0
UKESM1-0-LL
lit_slow
lit_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
3.90
3.45
3.00
2.55
2.10
1.65
1.20
0.75
0.30

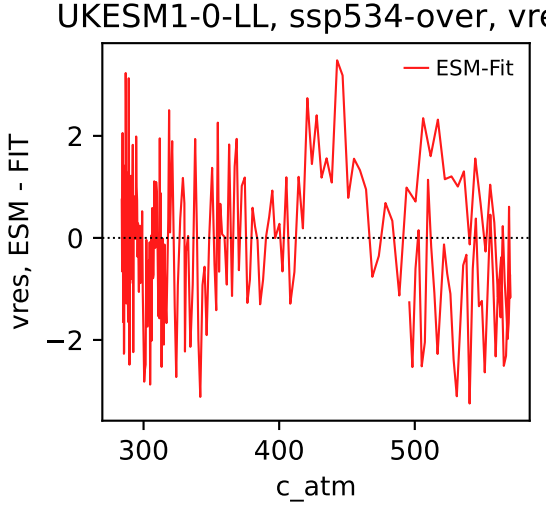

UKESM1-0-LL, ssp534-over, vres
ESM
Fit
vres
Year

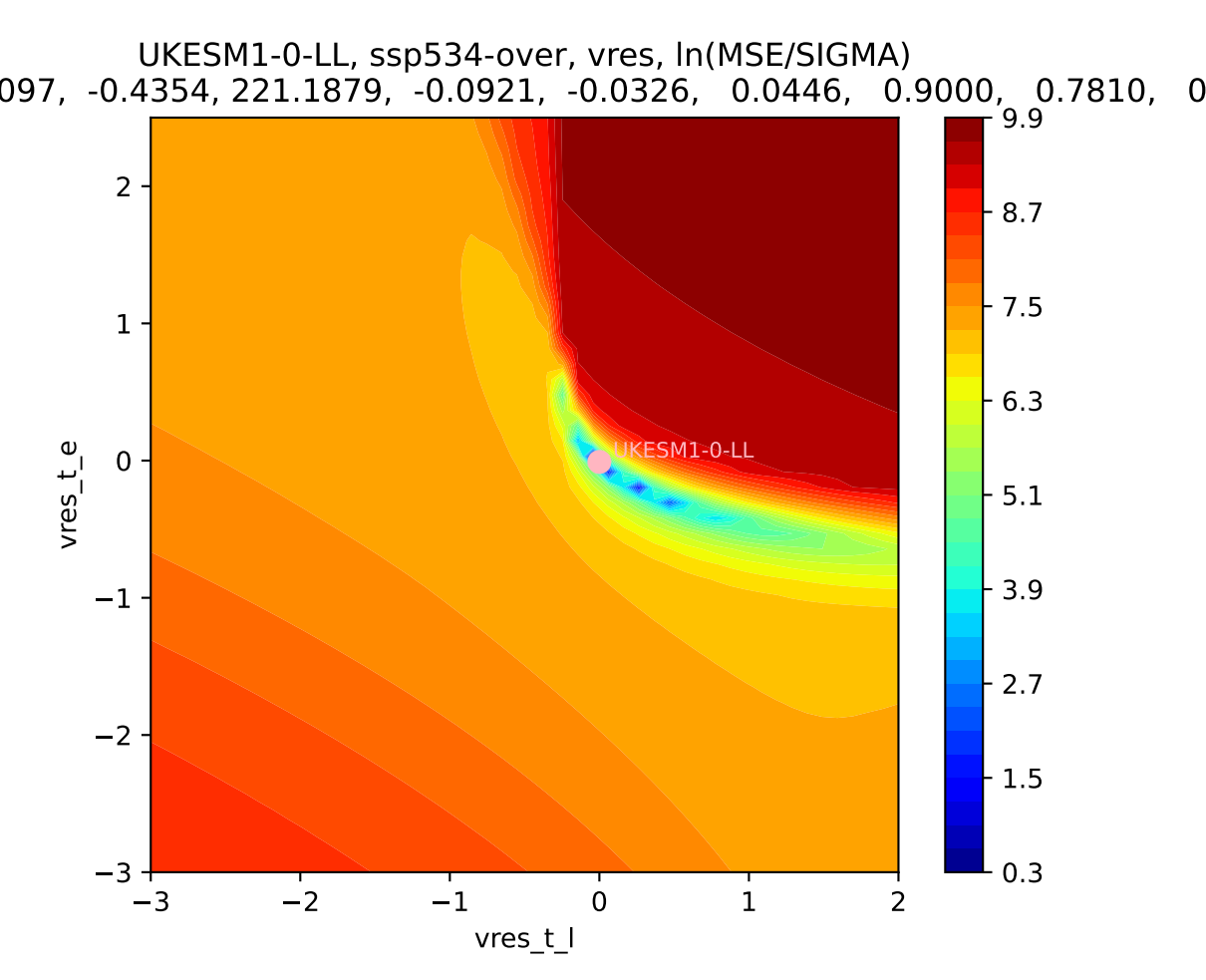

UKESM1-0-LL, ssp534-over, vres
ESM-Fit
vres, ESM - FIT
Year

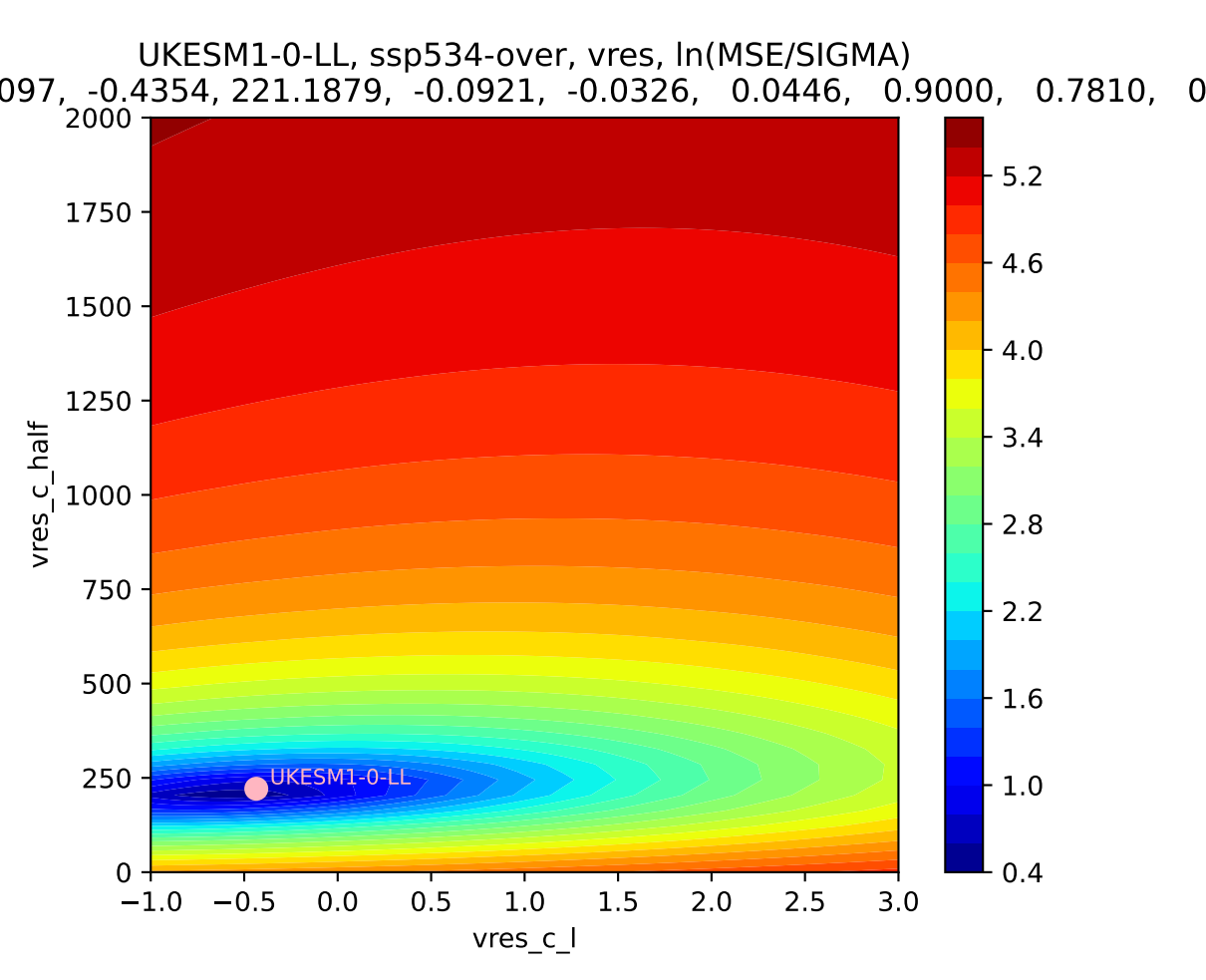

UKESM1-0-LL, ssp534-over, vres
ESM
Fit
vres
ΔT

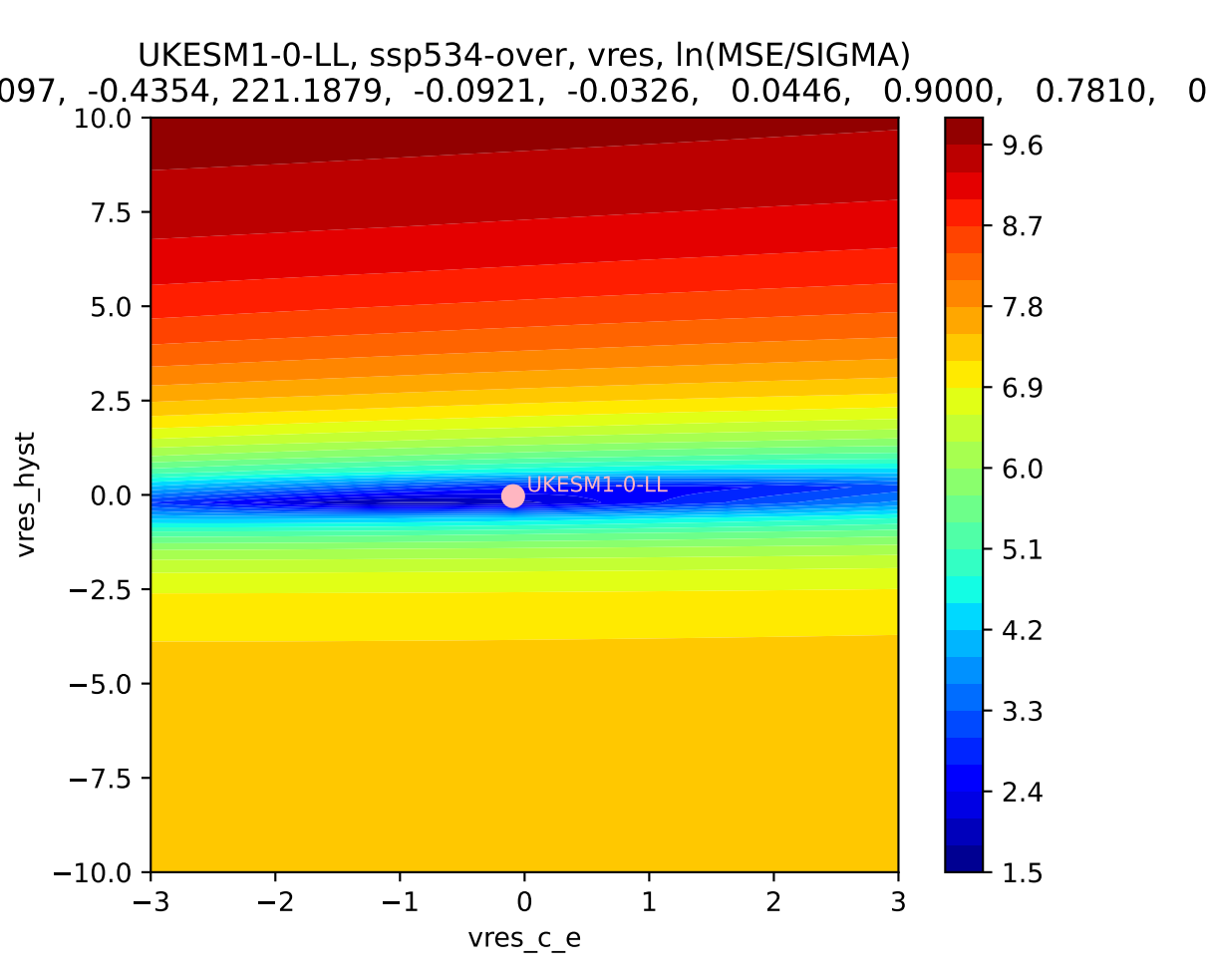

UKESM1-0-LL, ssp534-over, vres
ESM-Fit
vres, ESM - FIT
ΔT

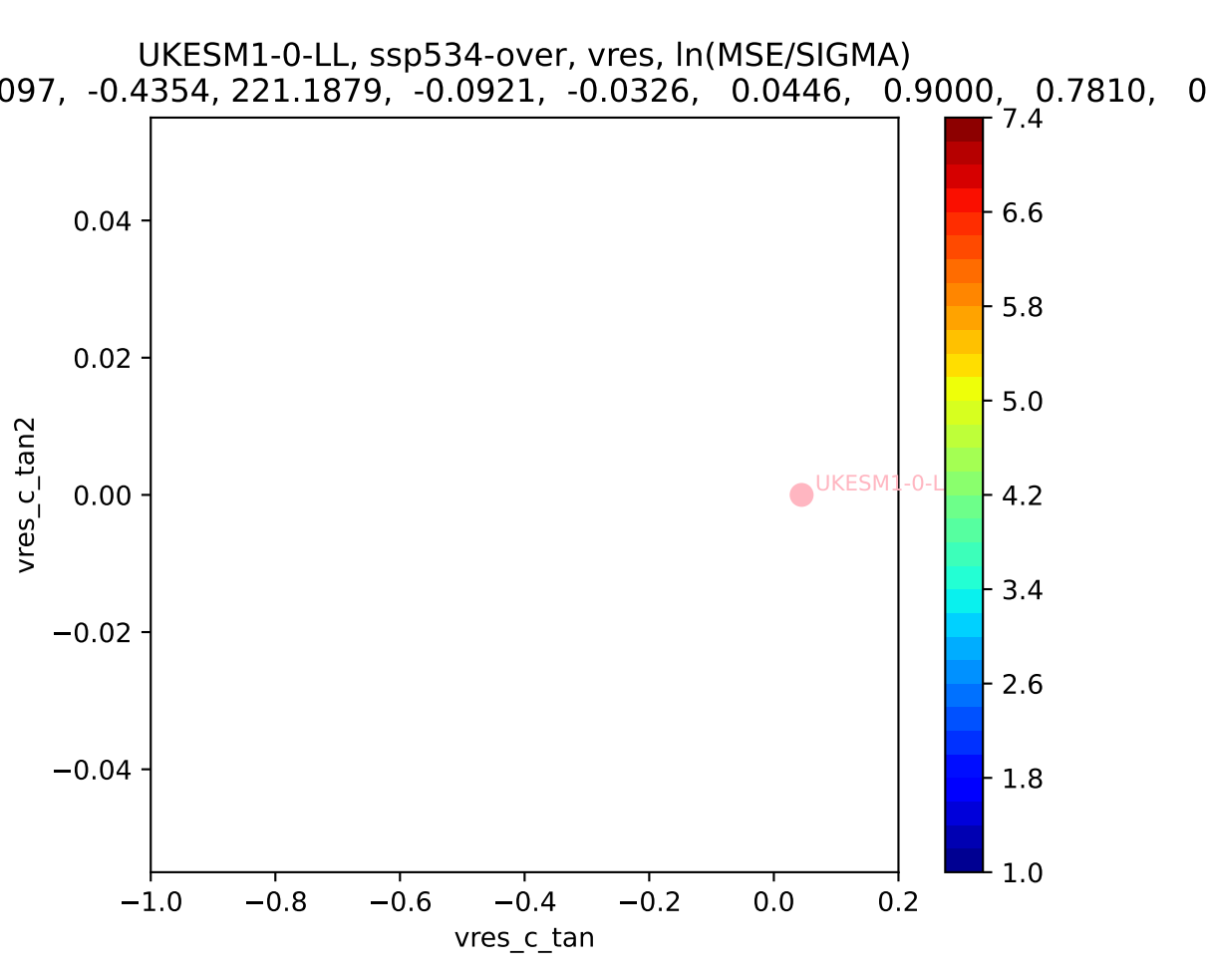

UKESM1-0-LL, ssp534-over, vres
ESM
Fit
vres
c_atm

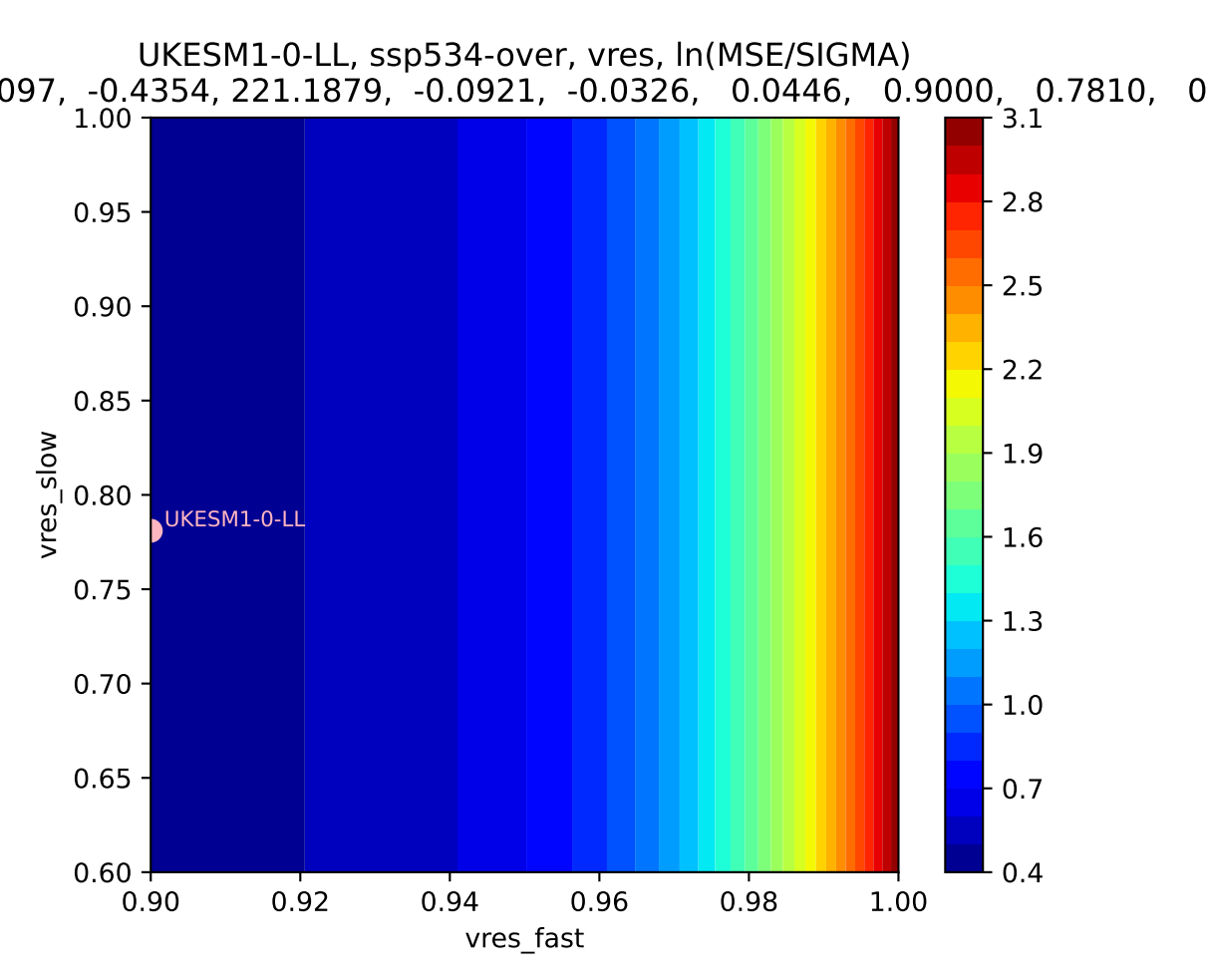

UKESM1-0-LL, ssp534-over, vres
ESM-Fit
vres, ESM - FIT
c_atm

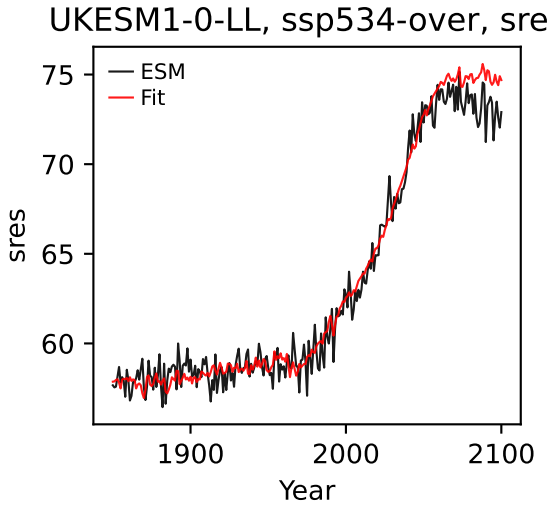

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
097, -0.4354, 221.1879, -0.0921, -0.0326, 0.0446, 0.9000, 0.7810, 0
UKESM1-0-LL
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

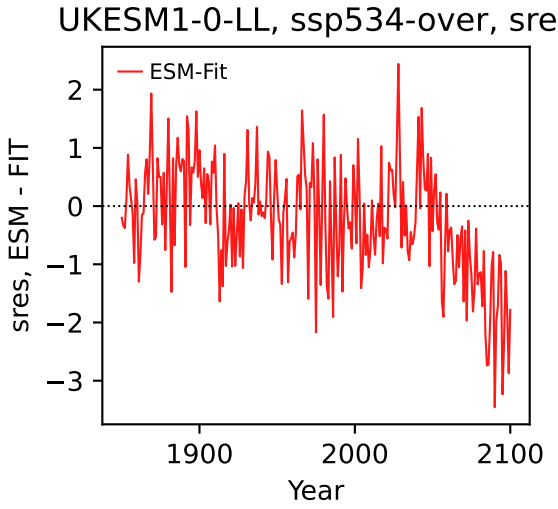

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
097, -0.4354, 221.1879, -0.0921, -0.0326, 0.0446, 0.9000, 0.7810, 0
vres_c_half
vres_c_l
UKESM1-0-LL
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
5.2
4.6
4.0
3.4
2.8
2.2
1.6
1.0
0.4

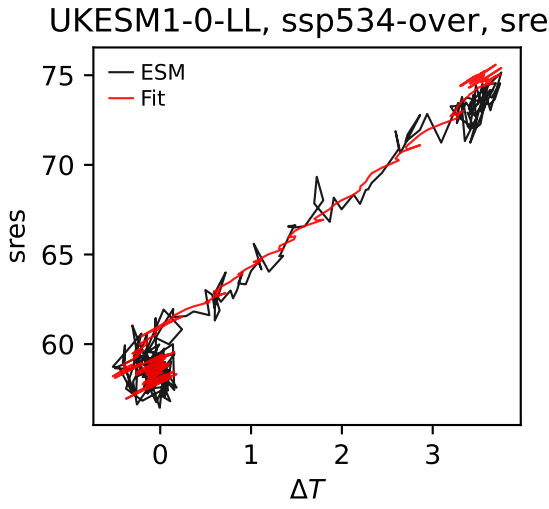

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
097, -0.4354, 221.1879, -0.0921, -0.0326, 0.0446, 0.9000, 0.7810, 0
UKESM1-0-LL
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5

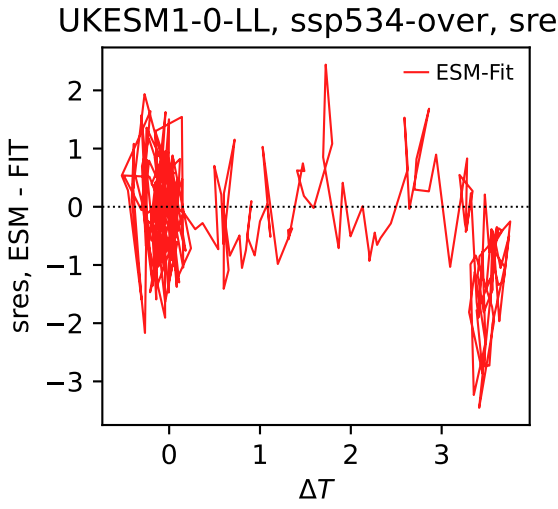

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
097, -0.4354, 221.1879, -0.0921, -0.0326, 0.0446, 0.9000, 0.7810, 0
0.04
0.02
0.00
−0.02
−0.04
vres_c_tan2
UKESM1-0-L
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
vres_c_tan
7.4
6.6
5.8
5.0
4.2
3.4
2.6
1.8
1.0

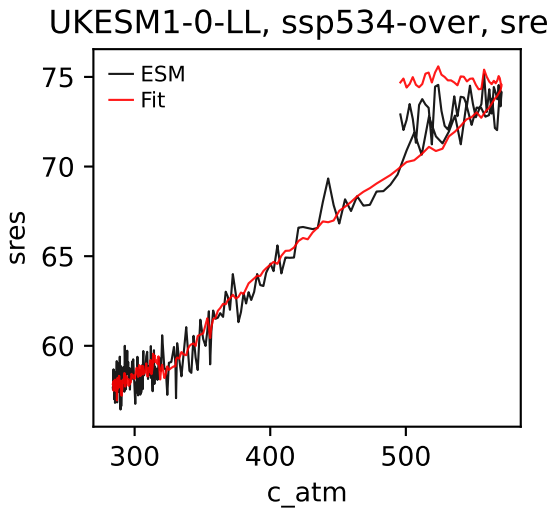

UKESM1-0-LL, ssp534-over, vres, ln(MSE/SIGMA)
097, -0.4354, 221.1879, -0.0921, -0.0326, 0.0446, 0.9000, 0.7810, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
vres_slow
UKESM1-0-LL
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast
3.1
2.8
2.5
2.2
1.9
1.6
1.3
1.0
0.7
0.4

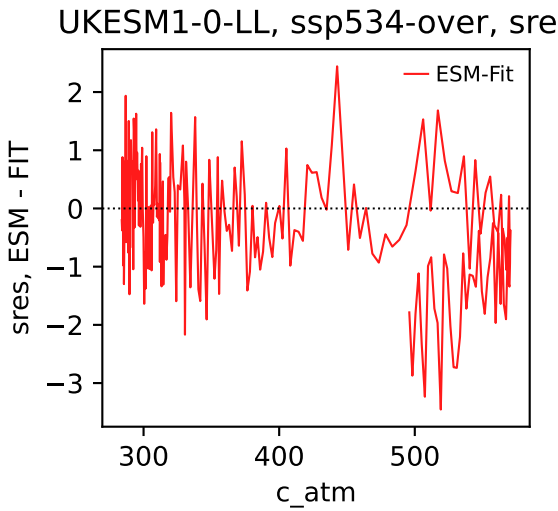

UKESM1-0-LL, ssp534-over, sres
ESM
Fit
sres
Year

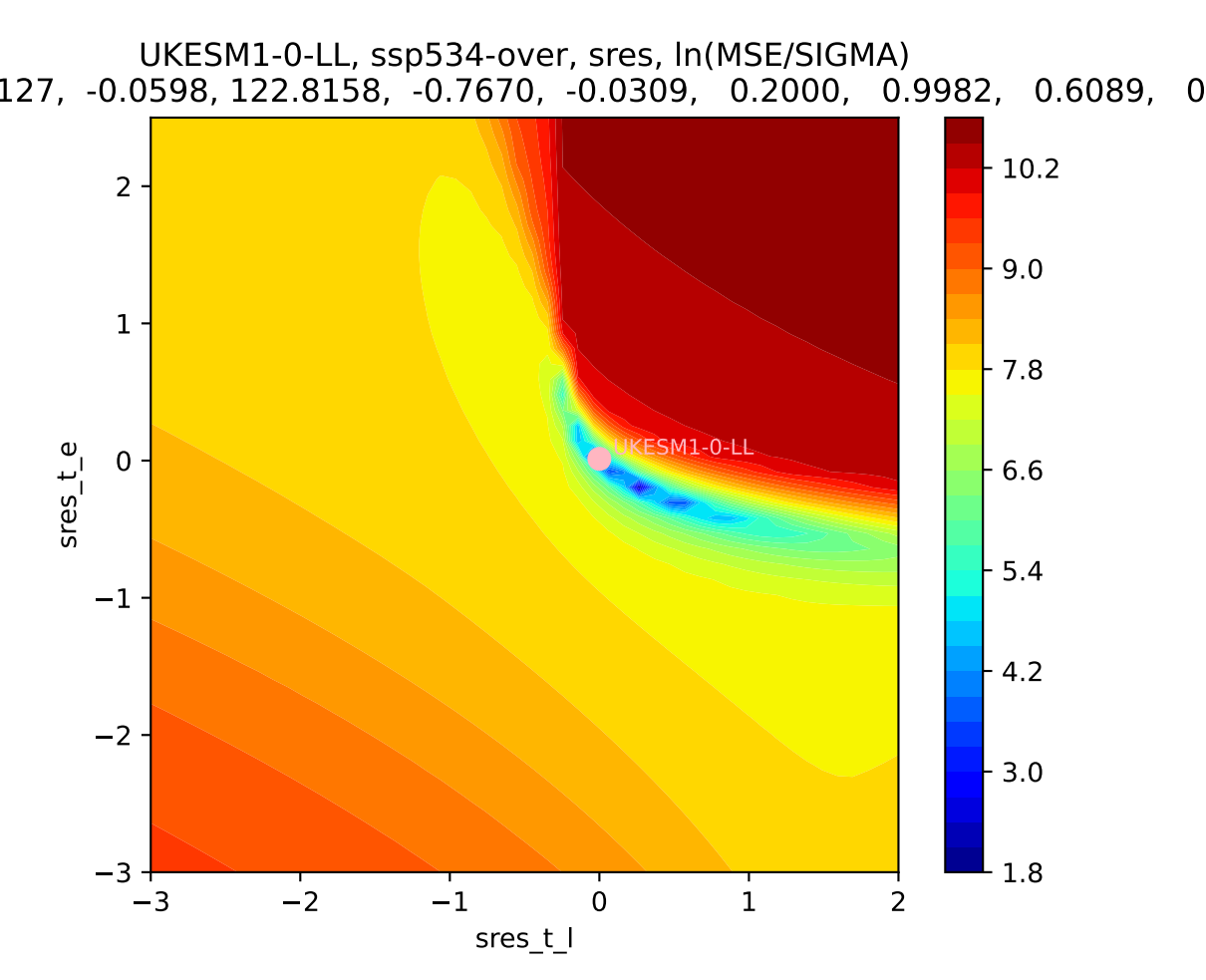

UKESM1-0-LL, ssp534-over, sres
ESM-Fit
sres, ESM - FIT
Year

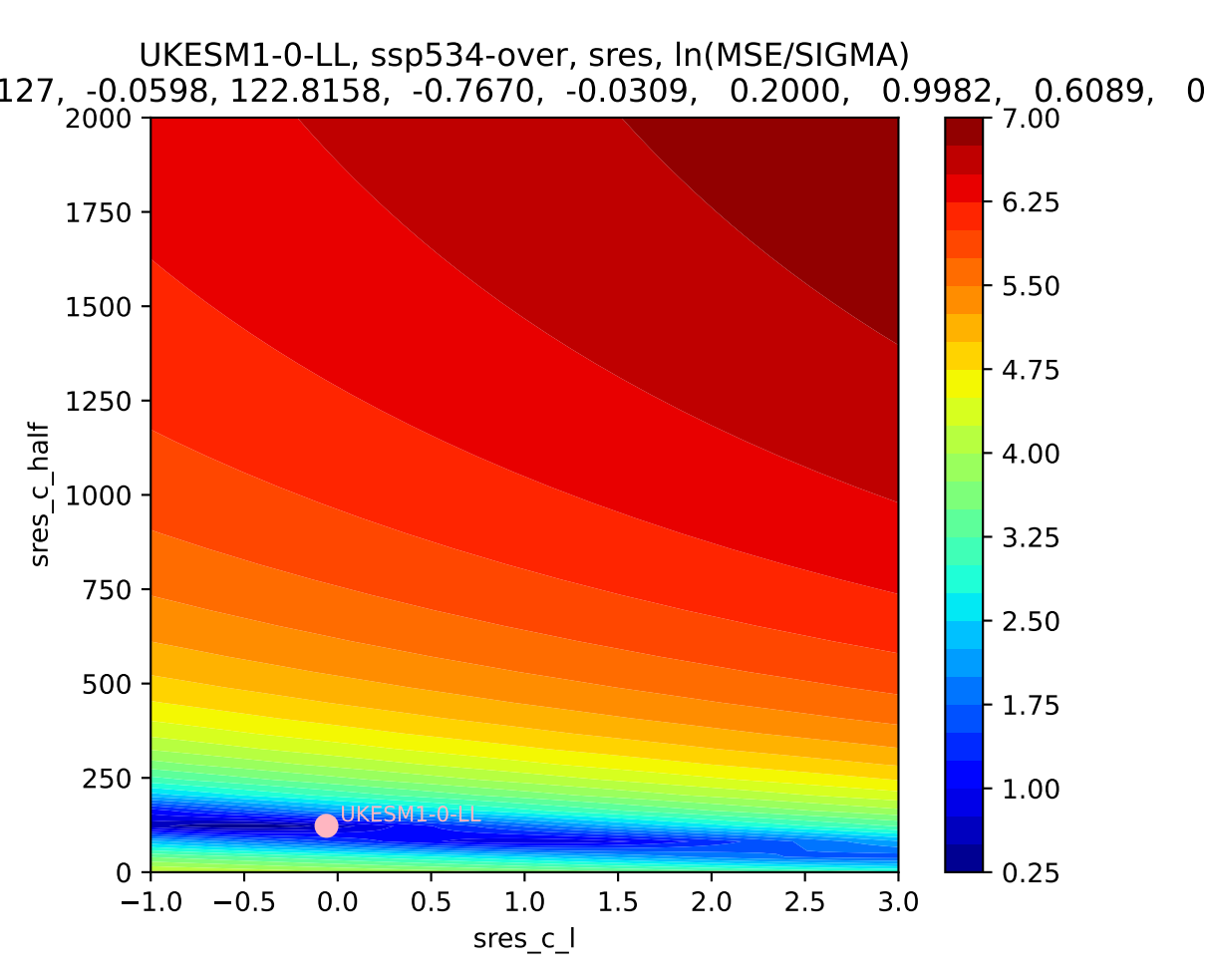

UKESM1-0-LL, ssp534-over, sres
ESM
Fit
sres
ΔT

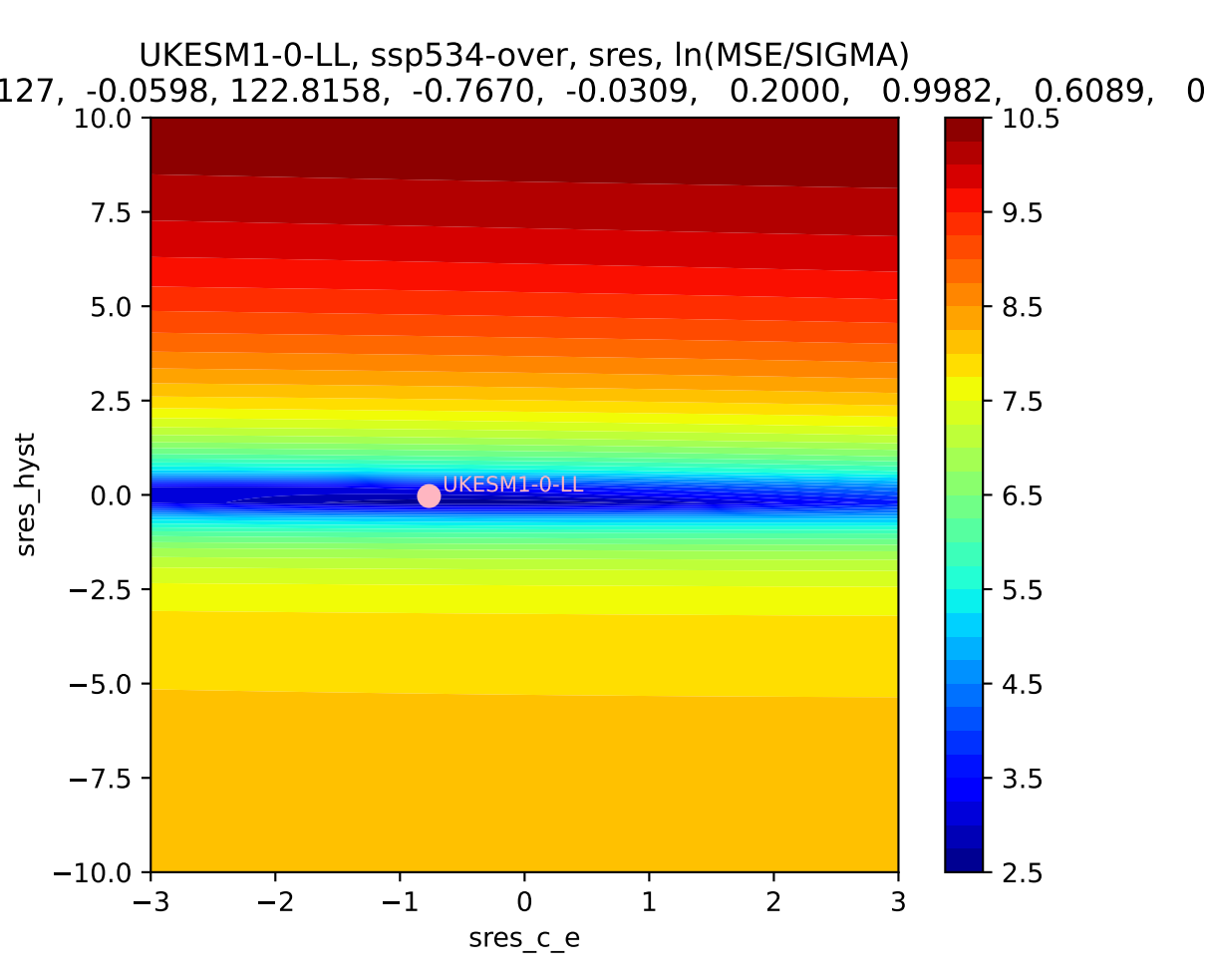

UKESM1-0-LL, ssp534-over, sres
ESM-Fit
sres, ESM - FIT
ΔT

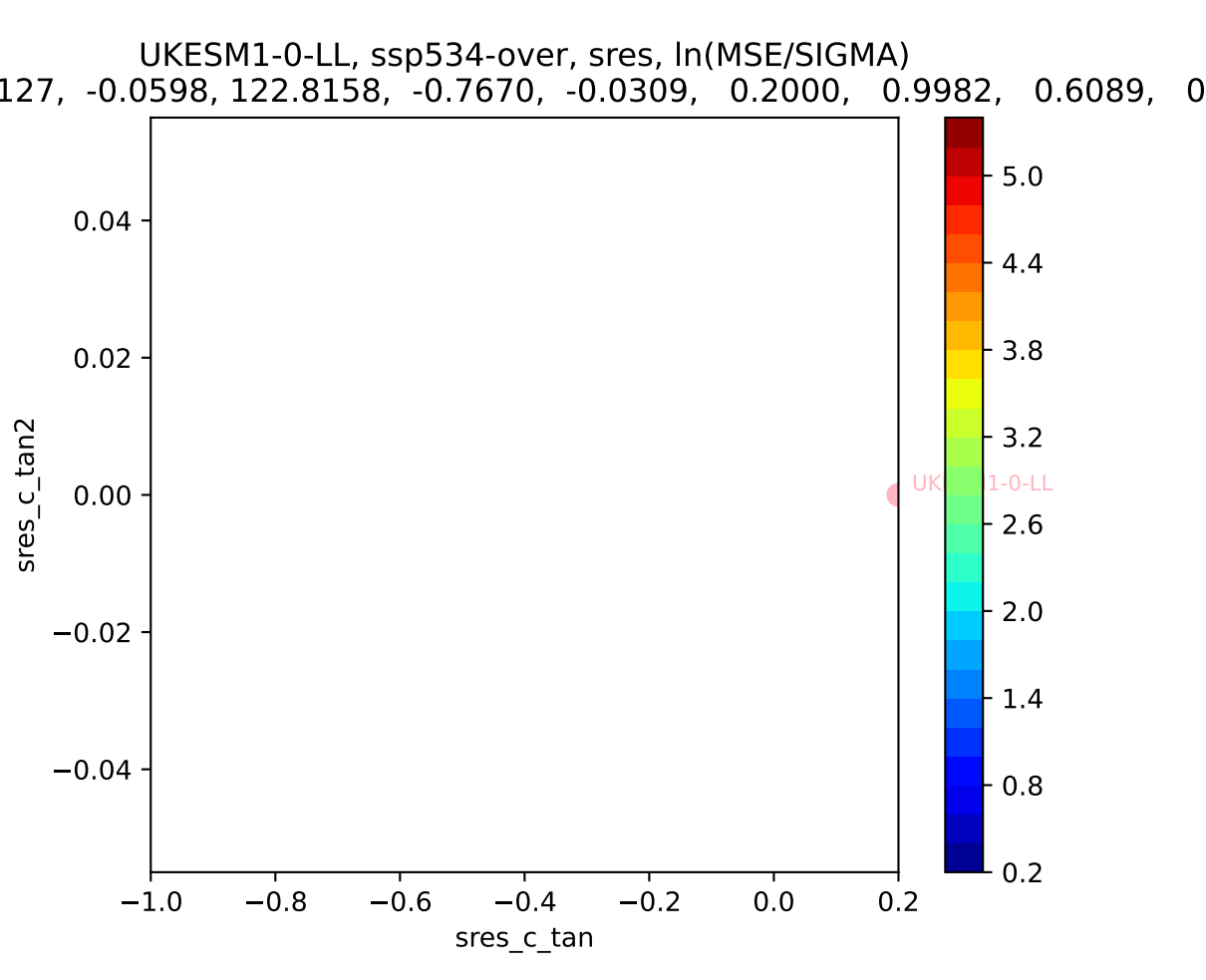

UKESM1-0-LL, ssp534-over, sres
ESM
Fit
sres
c_atm

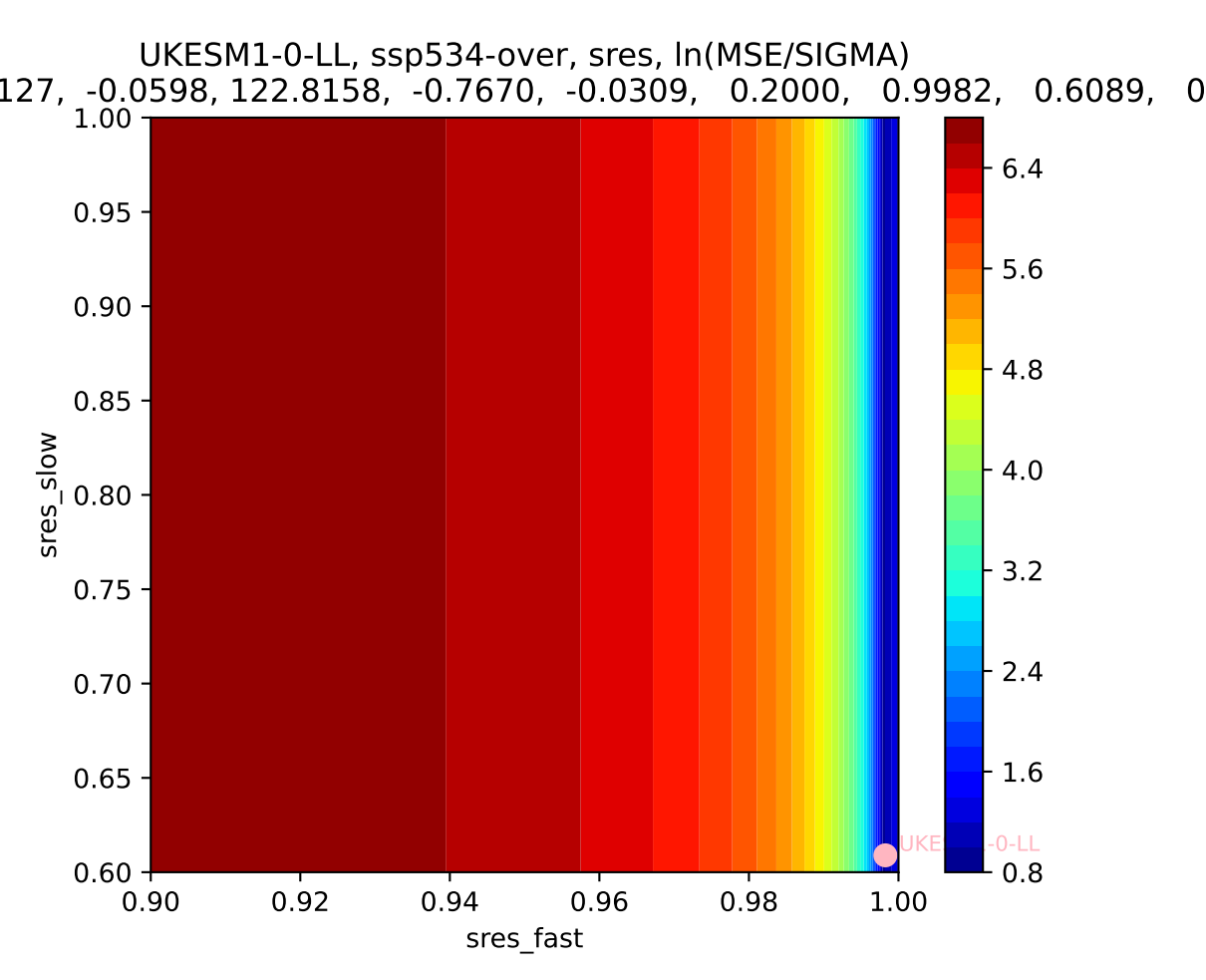

UKESM1-0-LL, ssp534-over, sres
ESM-Fit
sres, ESM - FIT
c_atm

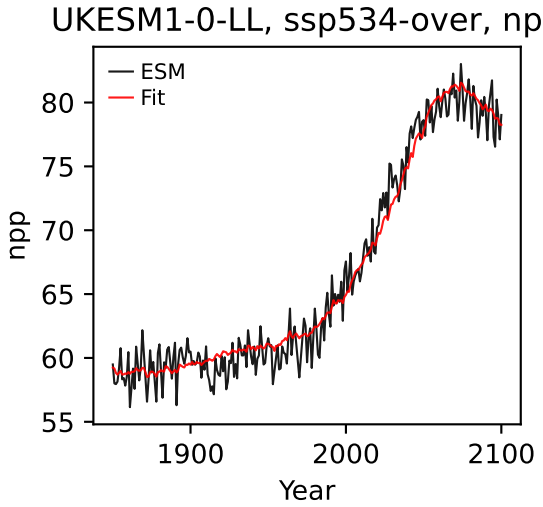

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
127, -0.0598, 122.8158, -0.7670, -0.0309, 0.2000, 0.9982, 0.6089, 0
UKESM1-0-LL
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8

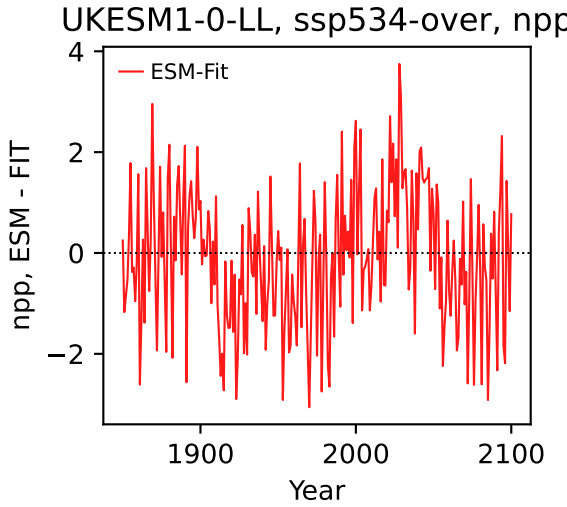

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
127, -0.0598, 122.8158, -0.7670, -0.0309, 0.2000, 0.9982, 0.6089, 0
sres_c_half
sres_c_l
UKESM1-0-LL
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00
0.25

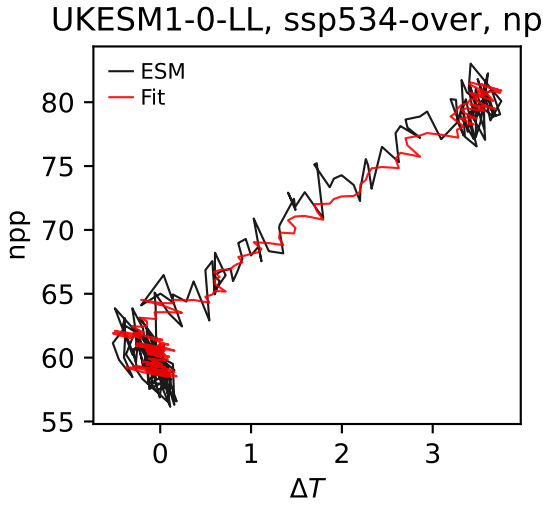

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
127, -0.0598, 122.8158, -0.7670, -0.0309, 0.2000, 0.9982, 0.6089, 0
UKESM1-0-LL
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.5
9.5
8.5
7.5
6.5
5.5
4.5
3.5
2.5

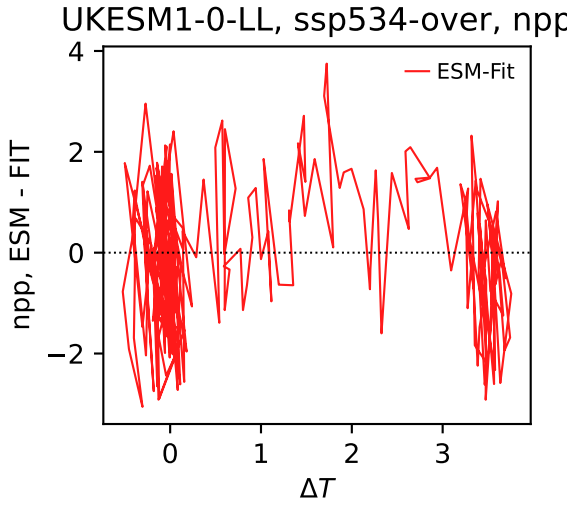

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
127, -0.0598, 122.8158, -0.7670, -0.0309, 0.2000, 0.9982, 0.6089, 0
0.04
0.02
0.00
−0.02
−0.04
sres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
sres_c_tan
5.0
4.4
3.8
3.2
2.6
2.0
1.4
0.8
0.2

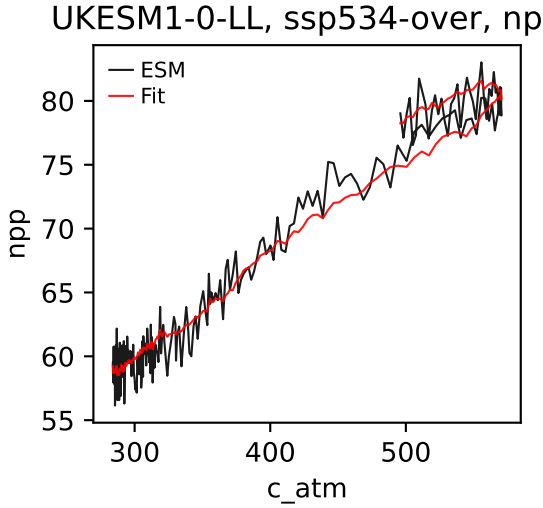

UKESM1-0-LL, ssp534-over, sres, ln(MSE/SIGMA)
127, -0.0598, 122.8158, -0.7670, -0.0309, 0.2000, 0.9982, 0.6089, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
0.90
0.92
0.94
0.96
0.98
1.00
sres_fast
6.4
5.6
4.8
4.0
3.2
2.4
1.6
0.8

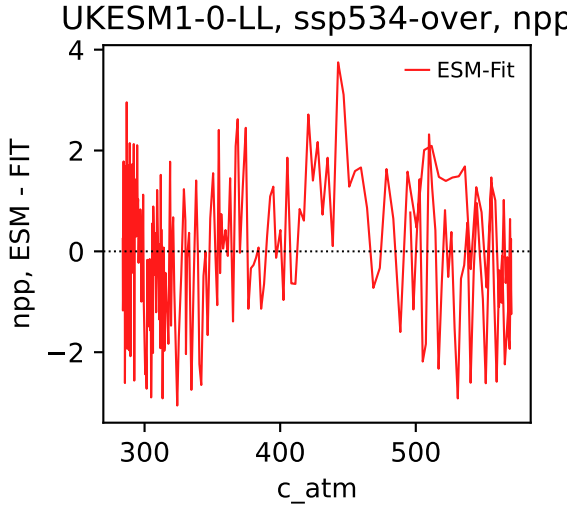

UKESM1-0-LL, ssp534-over, npp
ESM
Fit
npp
Year

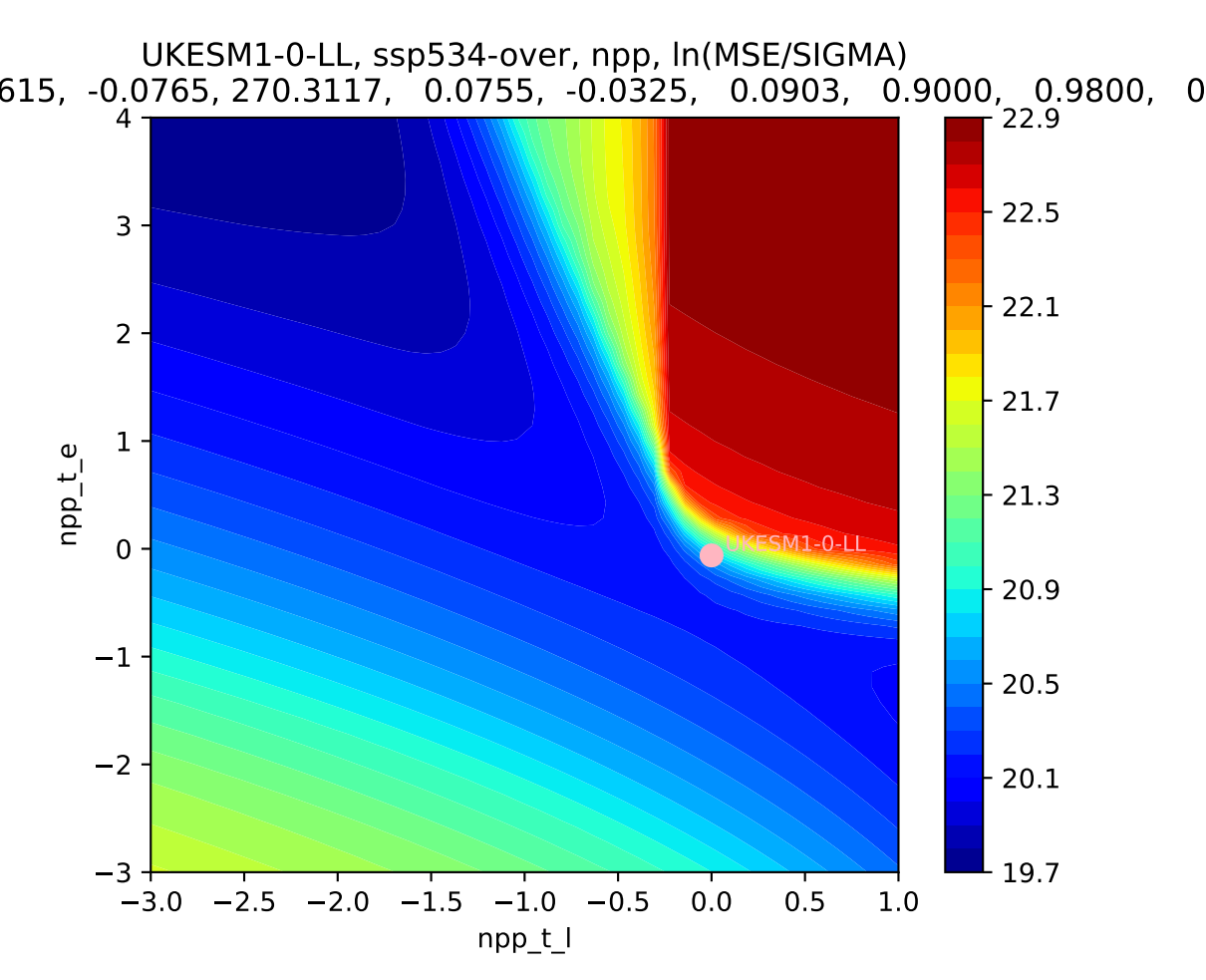

UKESM1-0-LL, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
Year

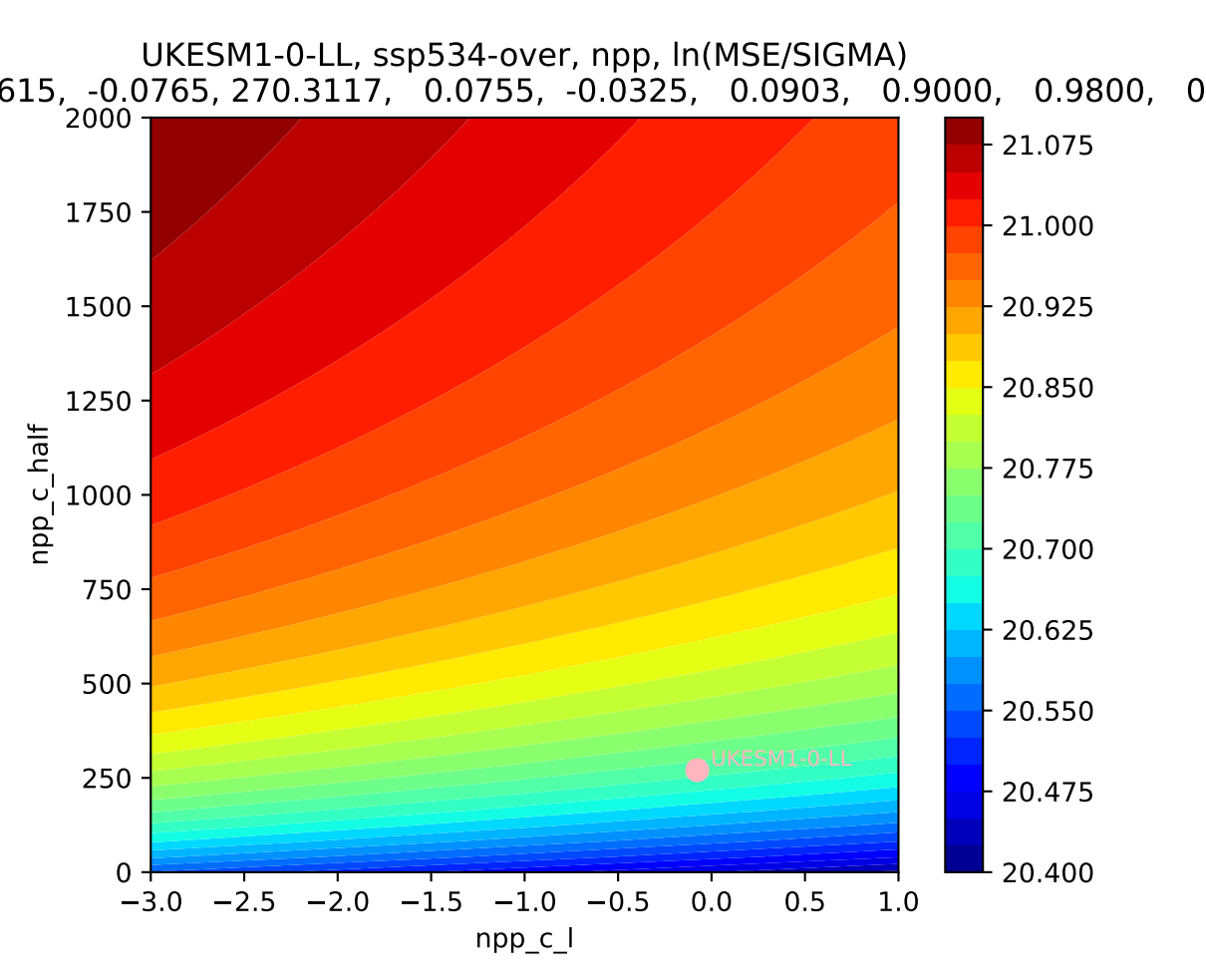

UKESM1-0-LL, ssp534-over, npp
ESM
Fit
npp
ΔT

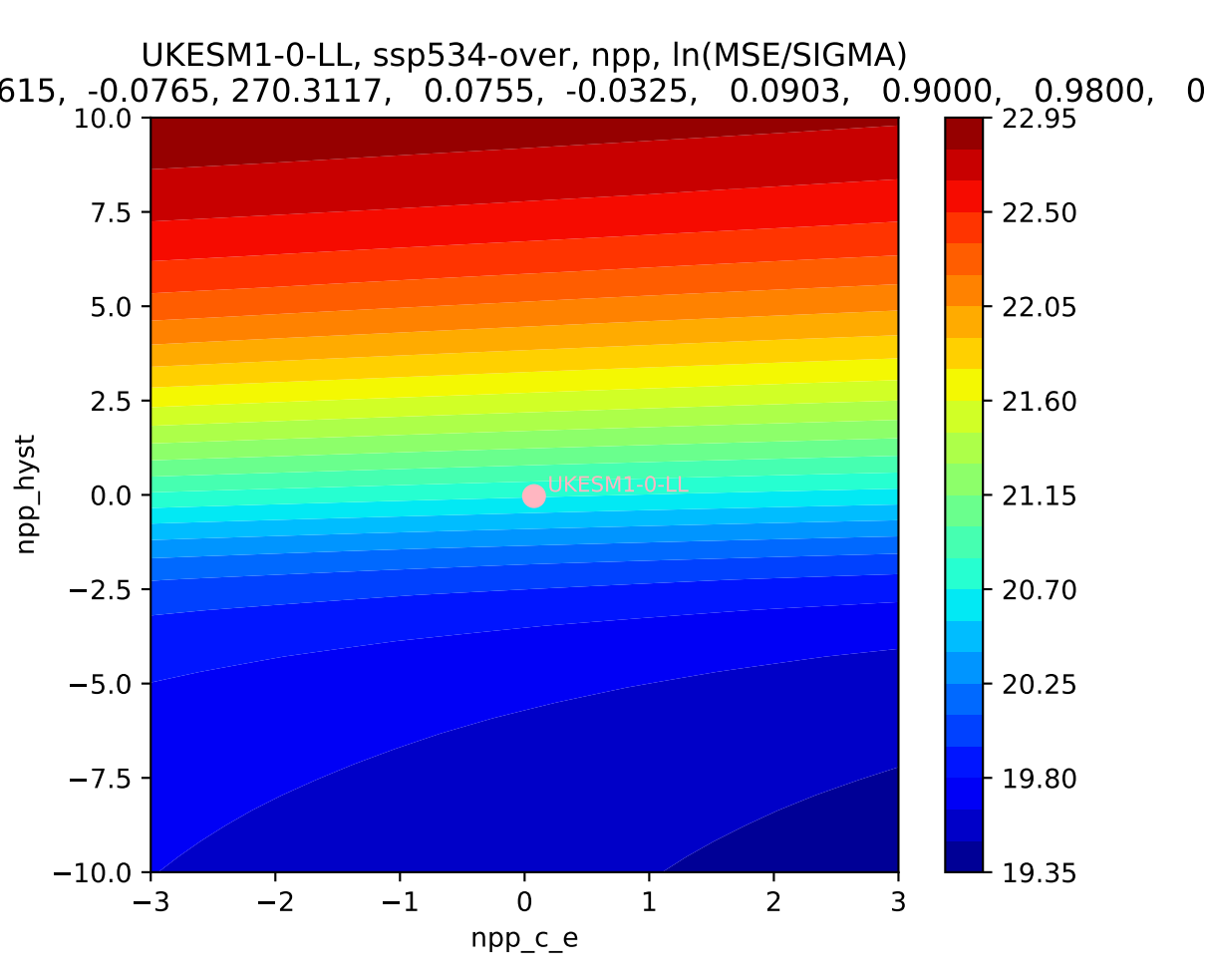

UKESM1-0-LL, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
ΔT

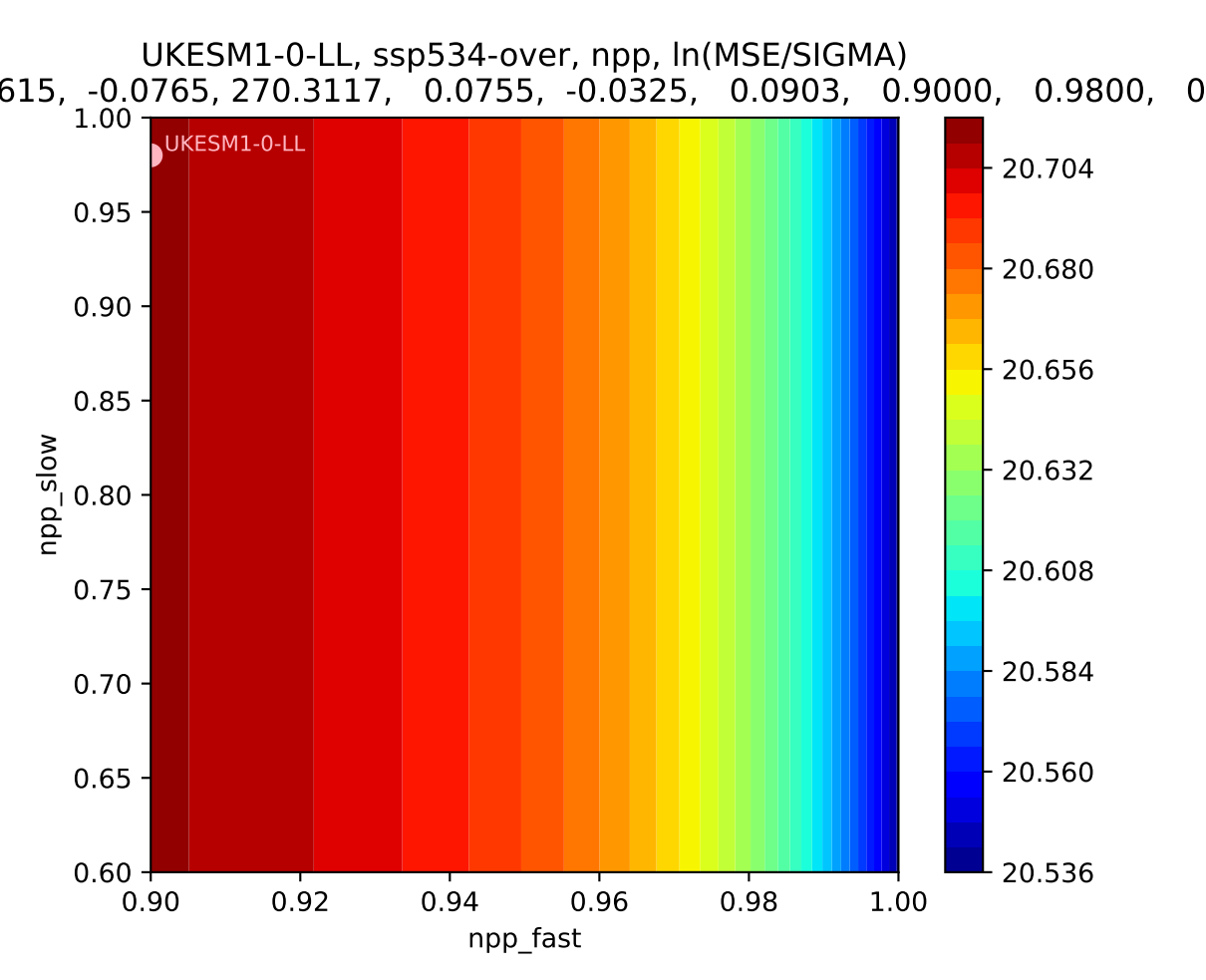

UKESM1-0-LL, ssp534-over, npp
ESM
Fit
npp
c_atm

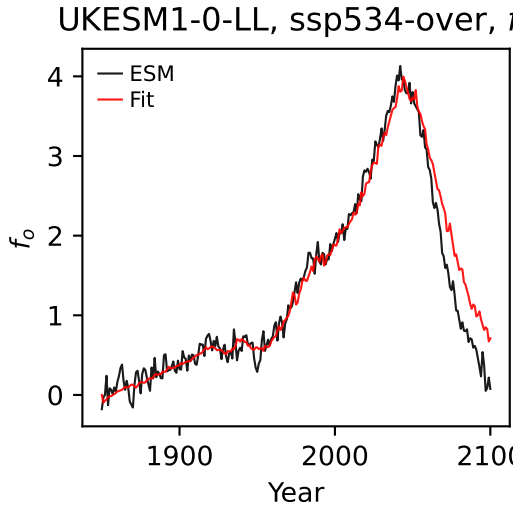

UKESM1-0-LL, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
c_atm

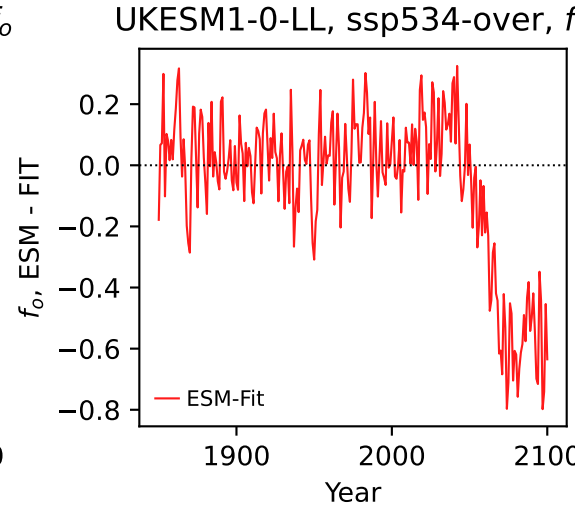

UKESM1-0-LL, ssp534-over, npp, ln(MSE/SIGMA)
615, -0.0765, 270.3117, 0.0755, -0.0325, 0.0903, 0.9000, 0.9800, 0
UKESM1-0-LL
npp_t_e
npp_t_l
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.9
22.5
22.1
21.7
21.3
20.9
20.5
20.1
19.7

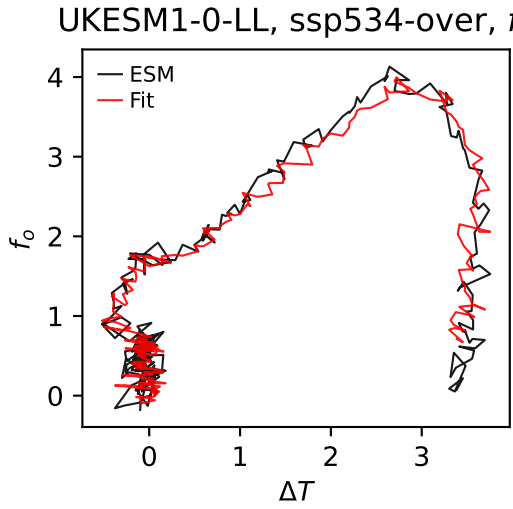

UKESM1-0-LL, ssp534-over, npp, ln(MSE/SIGMA)
615, -0.0765, 270.3117, 0.0755, -0.0325, 0.0903, 0.9000, 0.9800, 0
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
UKESM1-0-LL
21.075
21.000
20.925
20.850
20.775
20.700
20.625
20.550
20.475
20.400

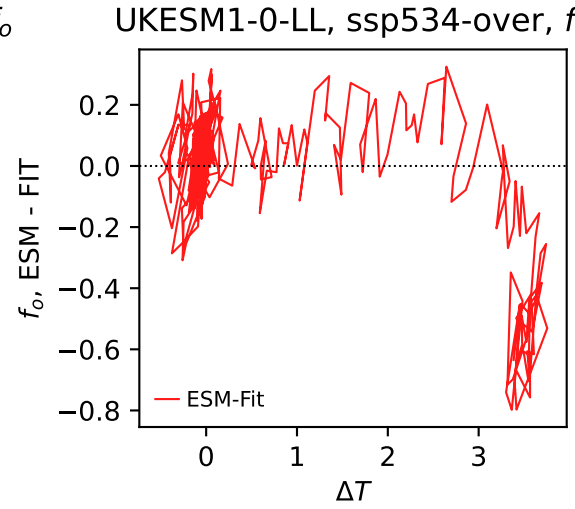

UKESM1-0-LL, ssp534-over, npp, ln(MSE/SIGMA)
615, -0.0765, 270.3117, 0.0755, -0.0325, 0.0903, 0.9000, 0.9800, 0
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
npp_hyst
UKESM1-0-LL
−3
−2
−1
0
1
2
3
npp_c_e
22.95
22.50
22.05
21.60
21.15
20.70
20.25
19.80
19.35

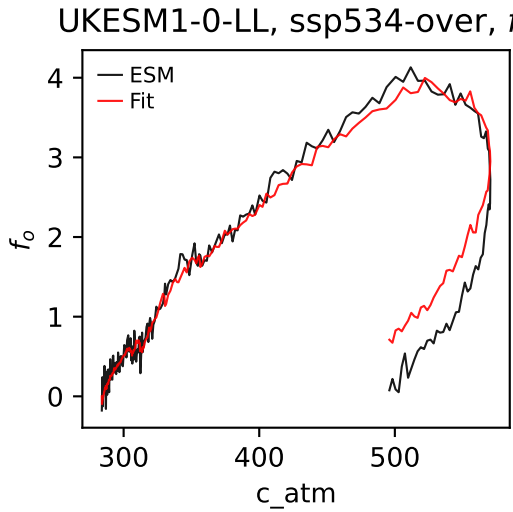

UKESM1-0-LL, ssp534-over, npp, ln(MSE/SIGMA)
615, -0.0765, 270.3117, 0.0755, -0.0325, 0.0903, 0.9000, 0.9800, 0
UKESM1-0-LL
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
20.704
20.680
20.656
20.632
20.608
20.584
20.560
20.536

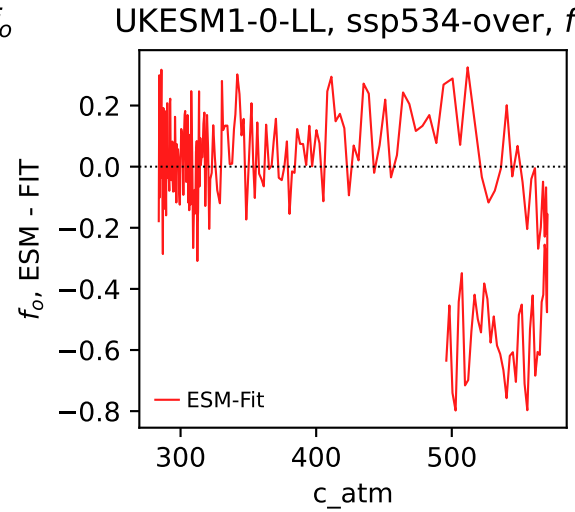

UKESM1-0-LL, ssp534-over, f_o
ESM
Fit
f_o
Year

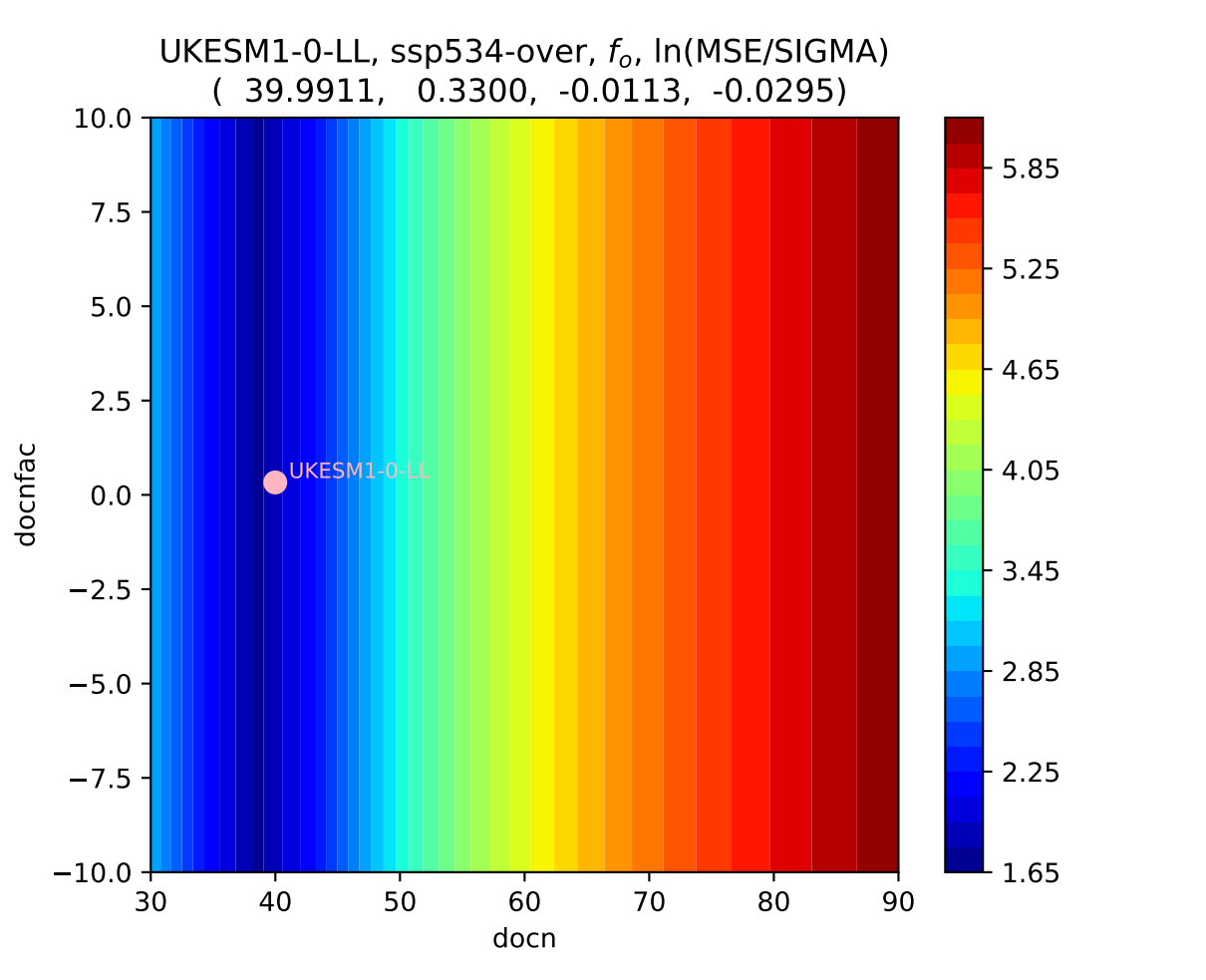

UKESM1-0-LL, ssp534-over, f_o
f_o, ESM - FIT
ESM-Fit
Year

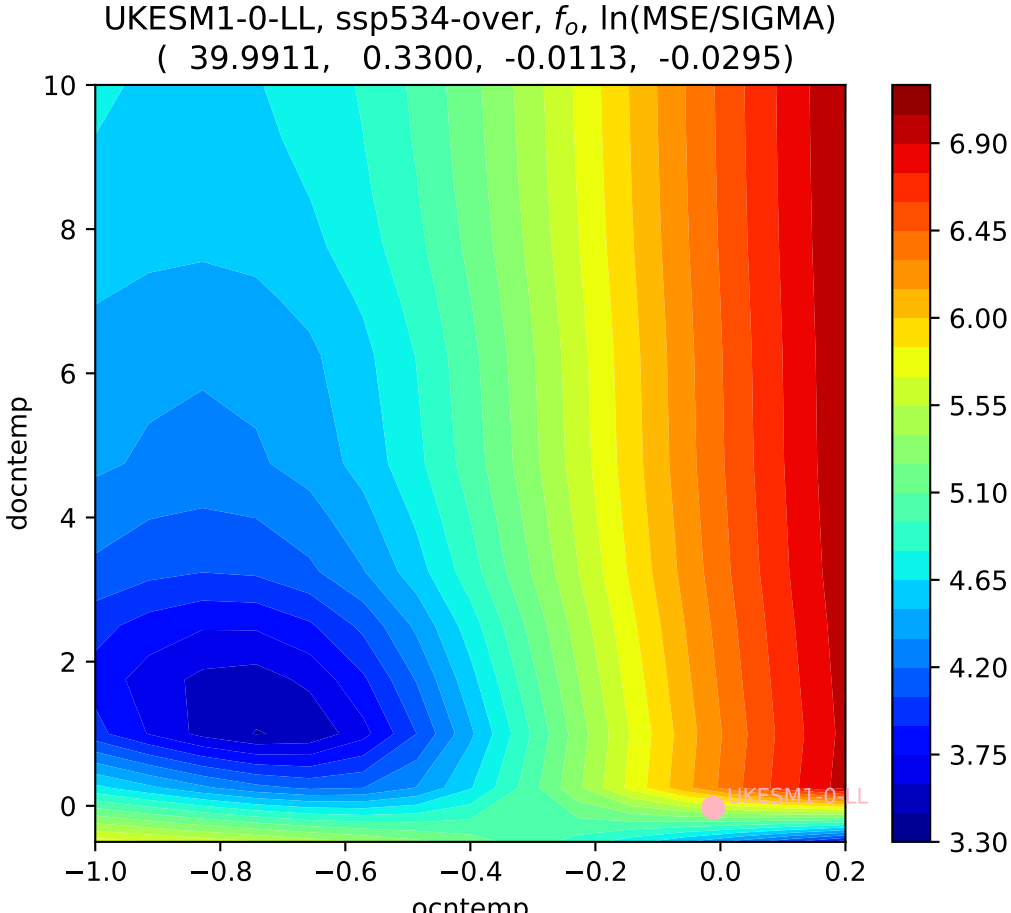

UKESM1-0-LL, ssp534-over, f_o
ESM
Fit
f_o
ΔT


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)
(39.9911, 0.3300, -0.0113, -0.0295)
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)
(39.9911, 0.3300, -0.0113, -0.0295)
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