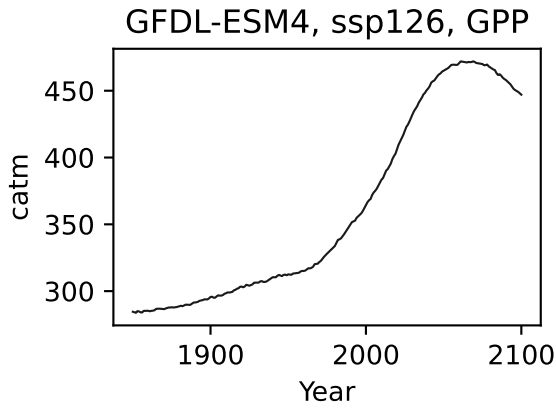
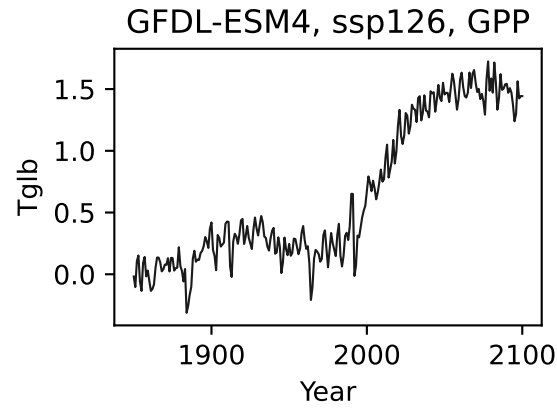
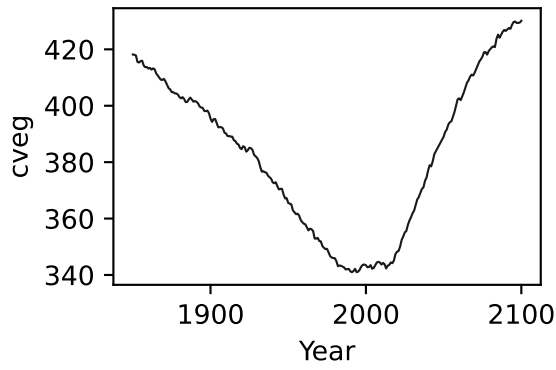
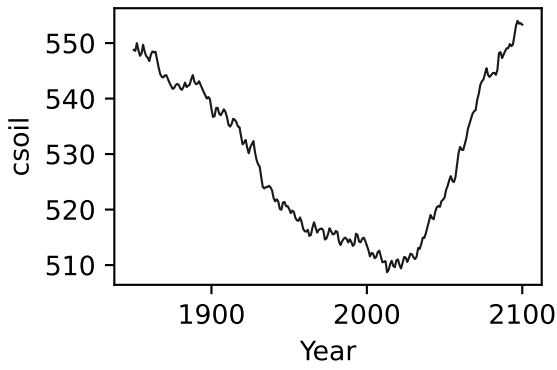
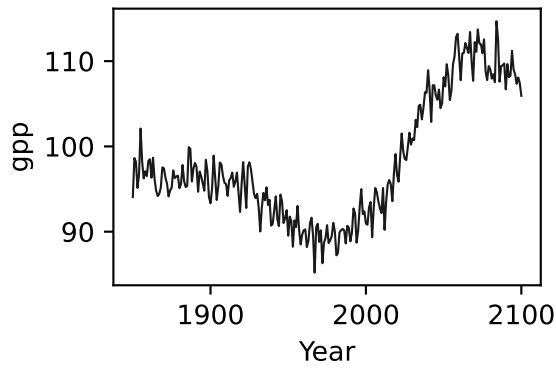
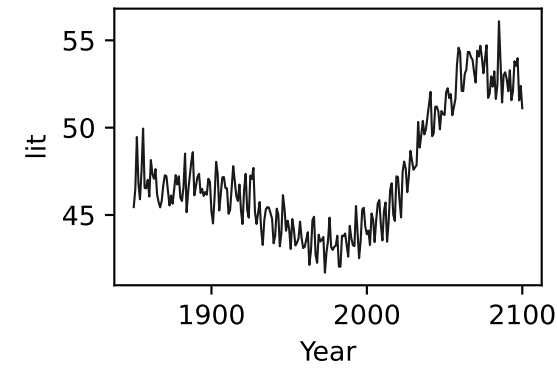

GFDL-ESM4, ssp126, GPP
catm
450
400
350
300
1900
2000
2100
Year

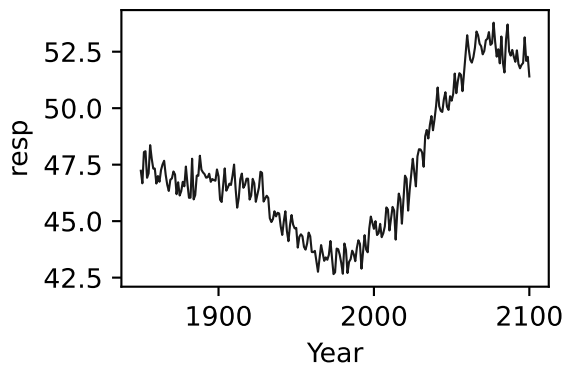

GFDL-ESM4, ssp126, GPP
Tglb
1.5
1.0
0.5
0.0
1900
2000
2100
Year

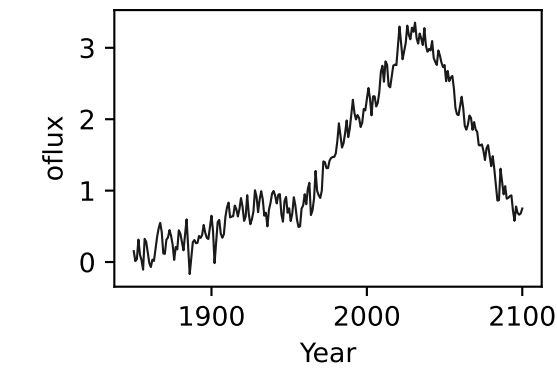

cveg
420
400
380
360
340
1900
2000
2100
Year

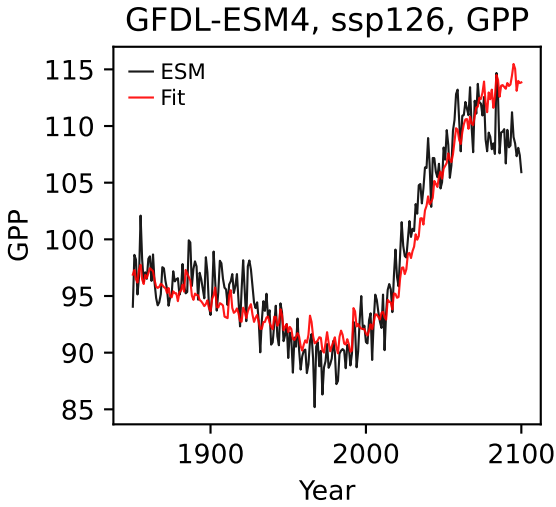

csoil
550
540
530
520
510
1900
2000
2100
Year

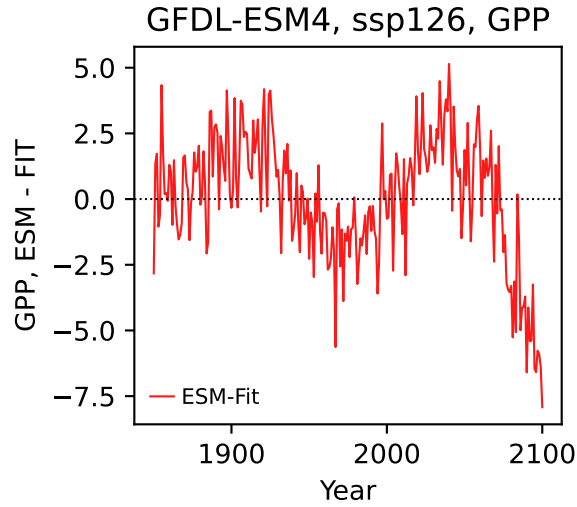

gpp
110
100
90
1900
2000
2100
Year

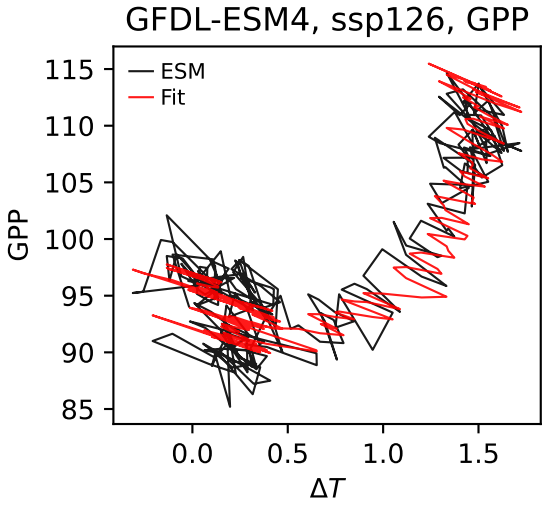

lit
55
50
45
1900
2000
2100
Year

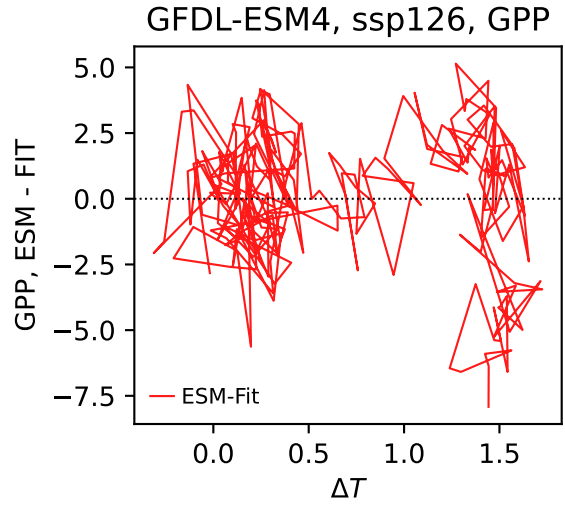

resp
52.5
50.0
47.5
45.0
42.5
1900
2000
2100
Year

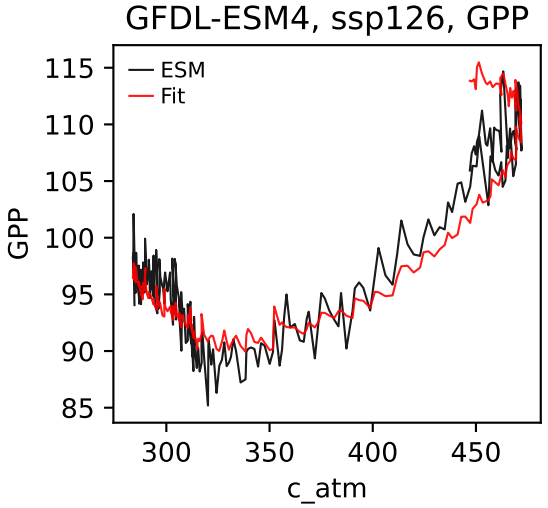

oflux
3
2
1
0
1900
2000
2100
Year

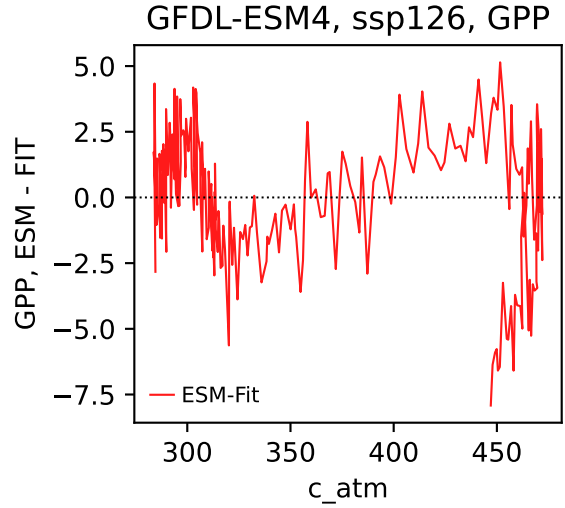

GFDL-ESM4, ssp126, GPP
ESM
Fit
GPP
Year

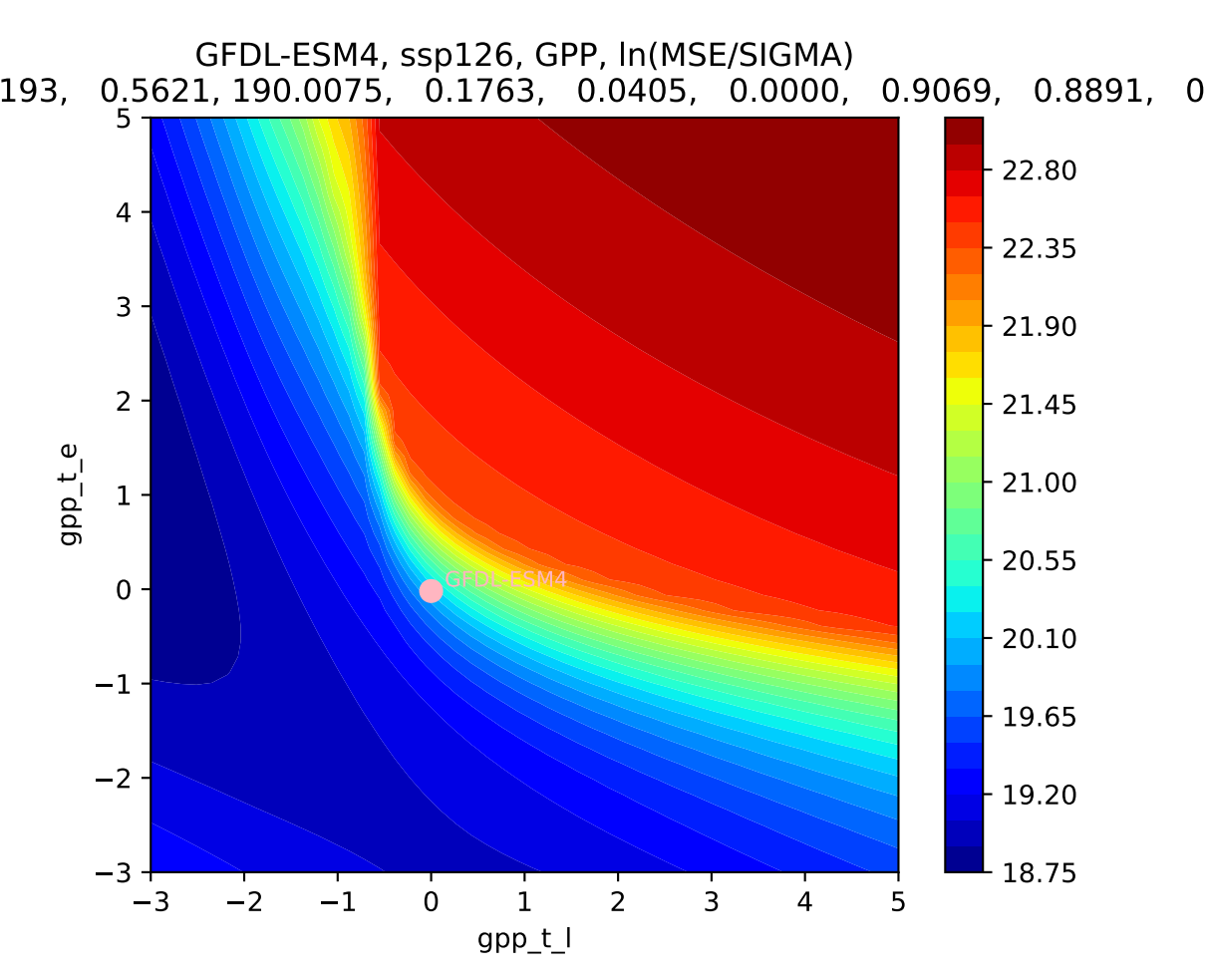

GFDL-ESM4, ssp126, GPP
GPP, ESM - FIT
ESM-Fit
Year

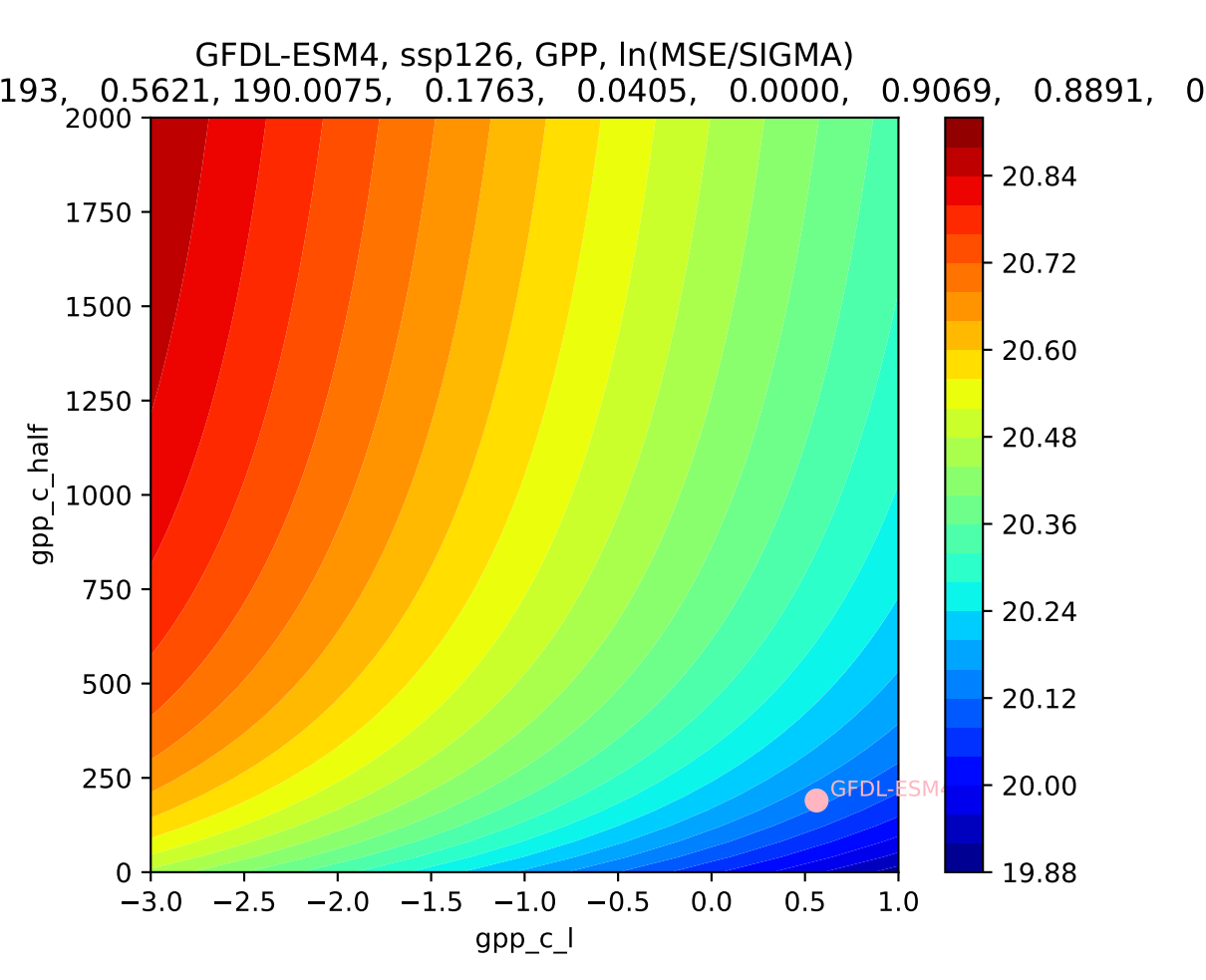

GFDL-ESM4, ssp126, GPP
ESM
Fit
GPP
ΔT

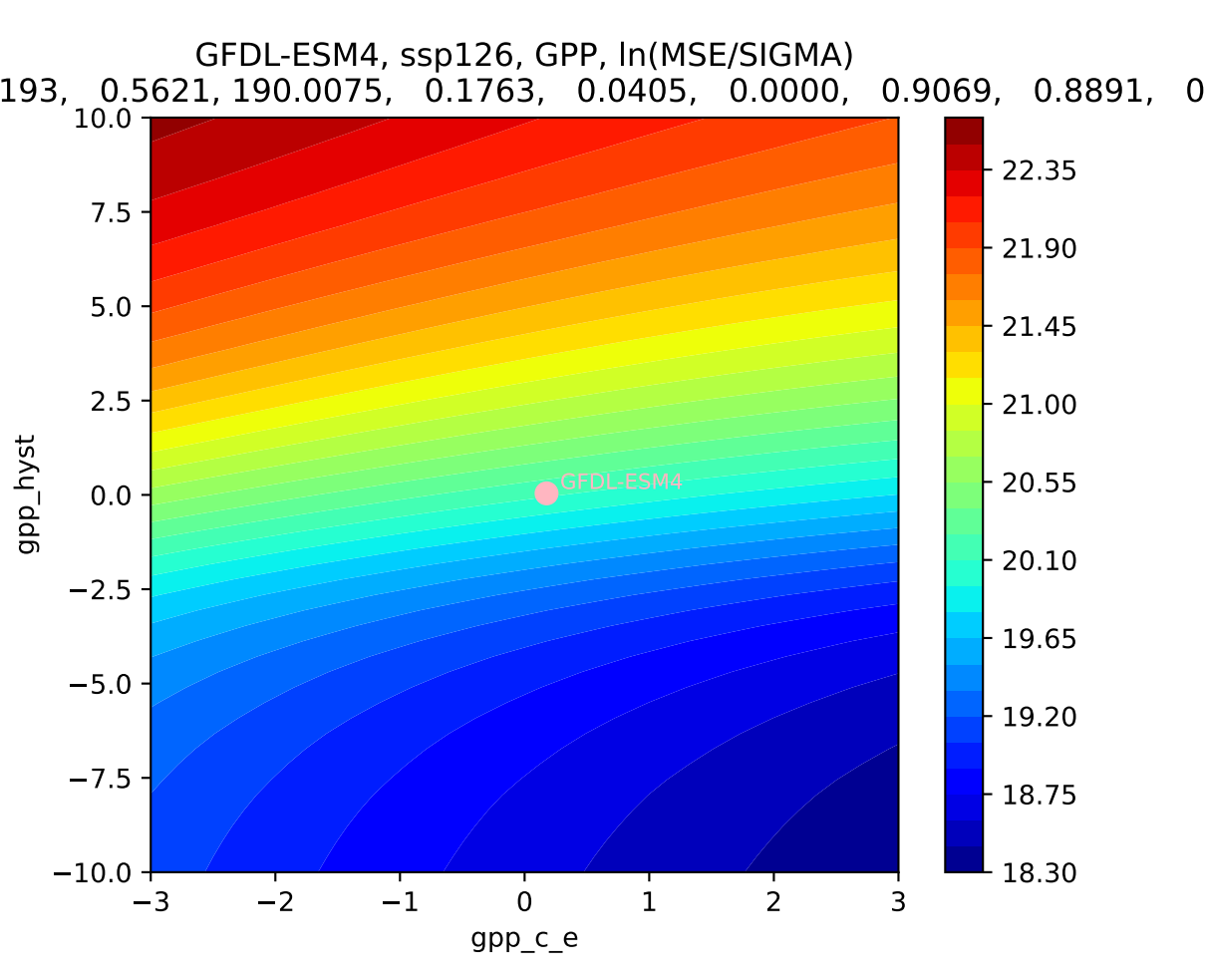

GFDL-ESM4, ssp126, GPP
GPP, ESM - FIT
ESM-Fit
ΔT

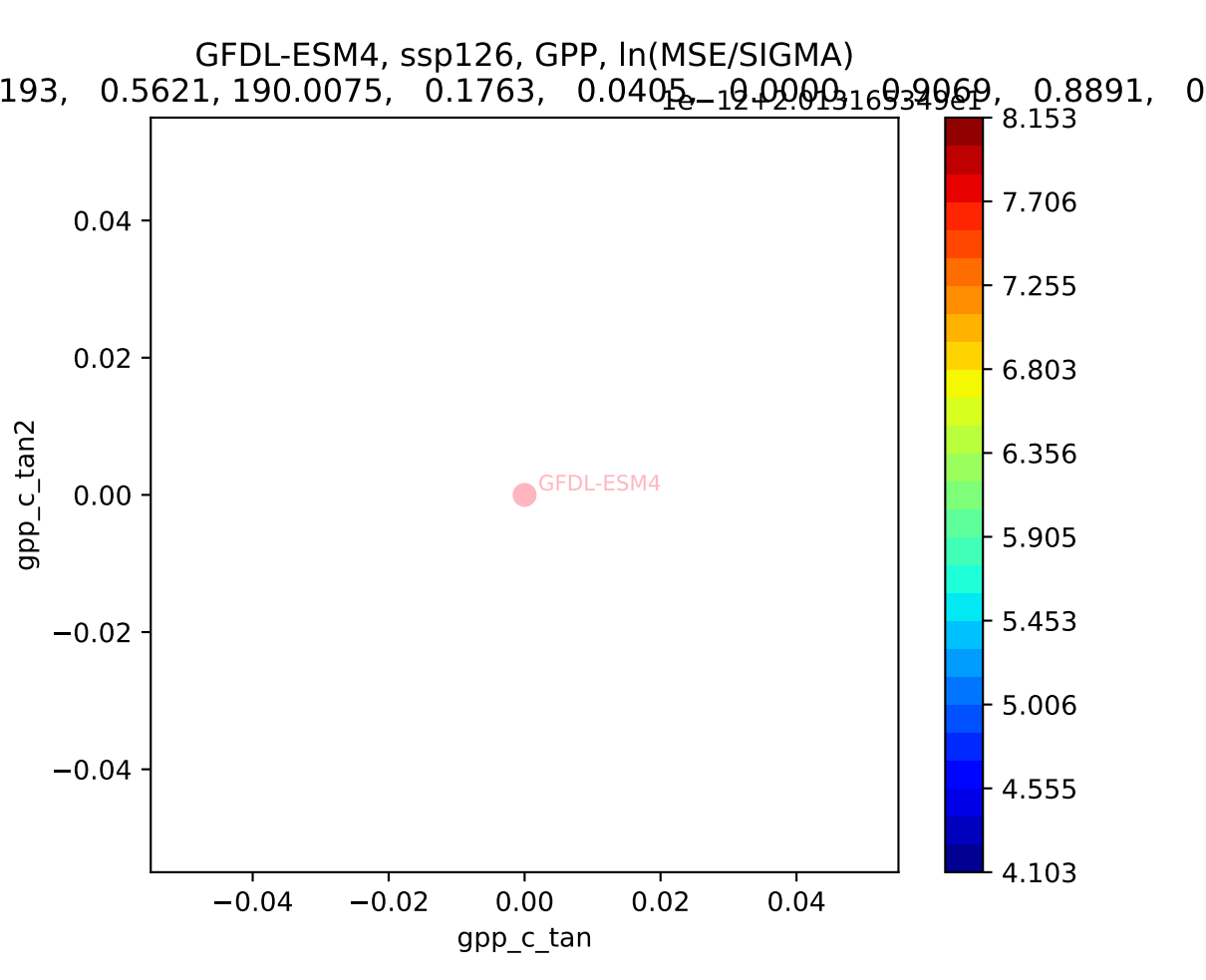

GFDL-ESM4, ssp126, GPP
ESM
Fit
GPP
c_atm

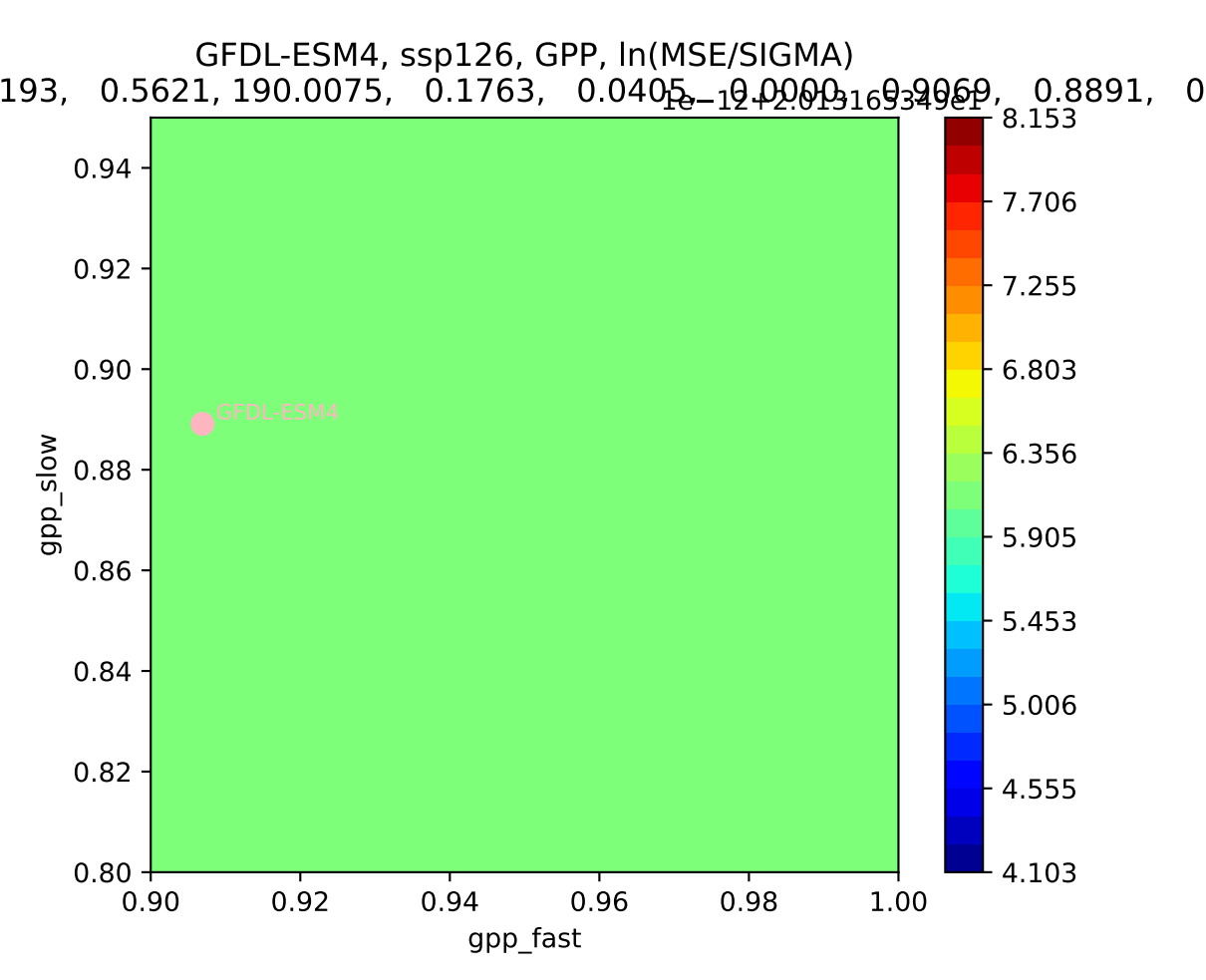

GFDL-ESM4, ssp126, GPP
GPP, ESM - FIT
ESM-Fit
c_atm

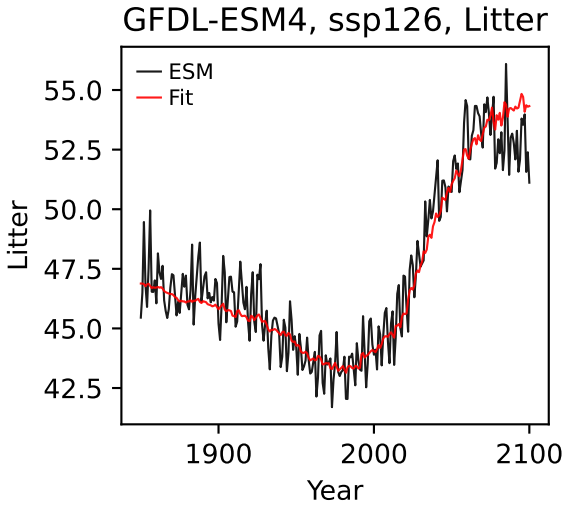

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0075, 0.1763, 0.0405, 0.0000, 0.9069, 0.8891, 0
GFDL-ESM4
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
22.80
22.35
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75

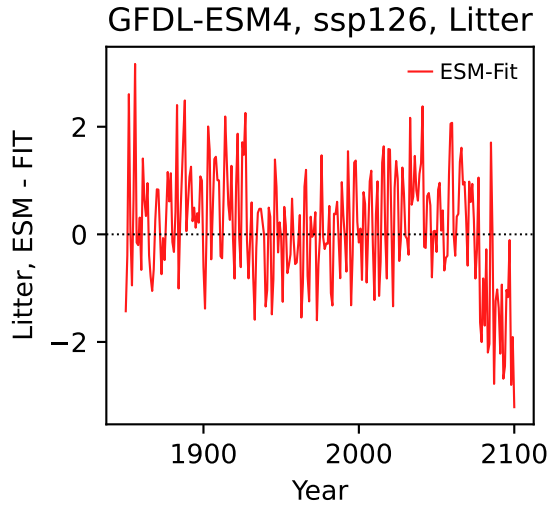

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0075, 0.1763, 0.0405, 0.0000, 0.9069, 0.8891, 0
gpp_c_half
gpp_c_l
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
20.84
20.72
20.60
20.48
20.36
20.24
20.12
20.00
19.88
GFDL-ESM4

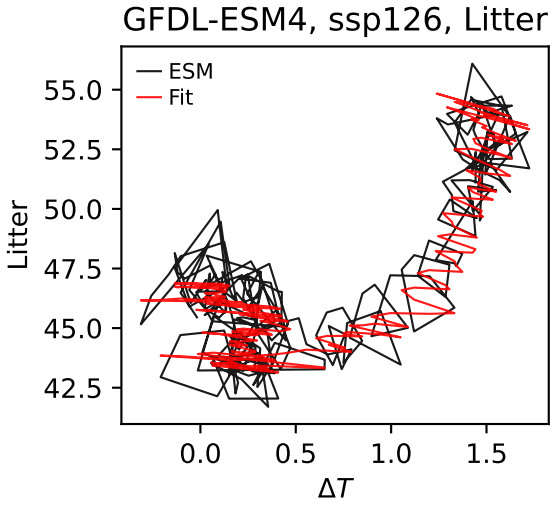

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0075, 0.1763, 0.0405, 0.0000, 0.9069, 0.8891, 0
GFDL-ESM4
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.35
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75
18.30

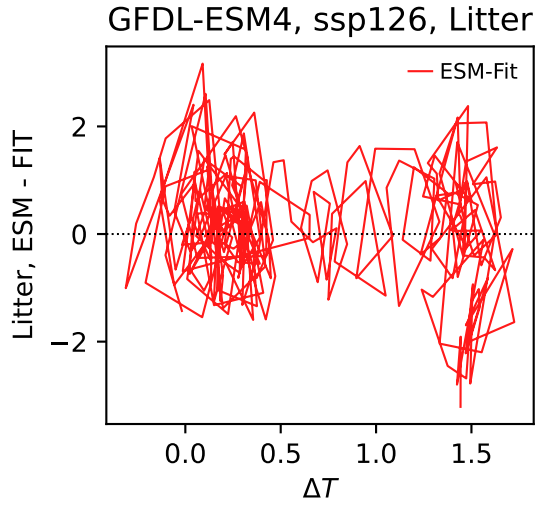

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0075, 0.1763, 0.0405, 0.0000, 0.9069, 0.8891, 0
1e−12+2.013163349e1
GFDL-ESM4
gpp_c_tan2
gpp_c_tan
0.04
0.02
0.00
−0.02
−0.04
8.153
7.706
7.255
6.803
6.356
5.905
5.453
5.006
4.555
4.103

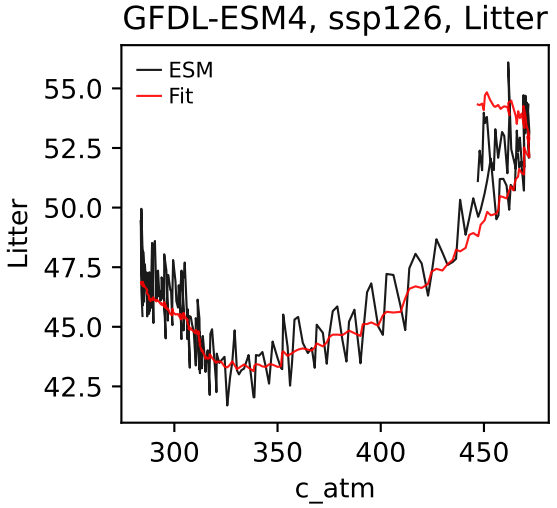

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0075, 0.1763, 0.0405, 0.0000, 0.9069, 0.8891, 0
1e−12+2.013163349e1
GFDL-ESM4
gpp_slow
gpp_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
8.153
7.706
7.255
6.803
6.356
5.905
5.453
5.006
4.555
4.103

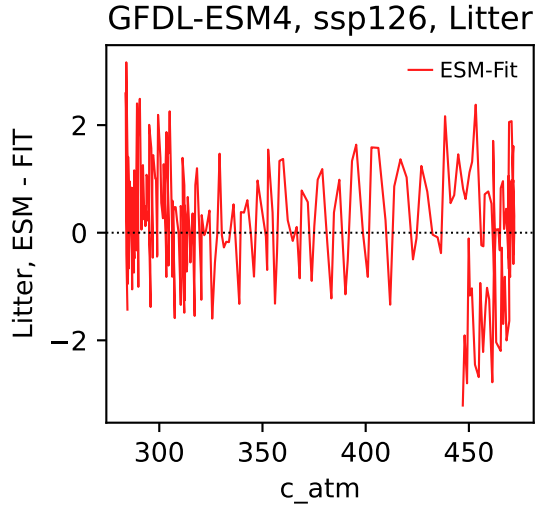

GFDL-ESM4, ssp126, Litter
ESM
Fit
Litter
Year

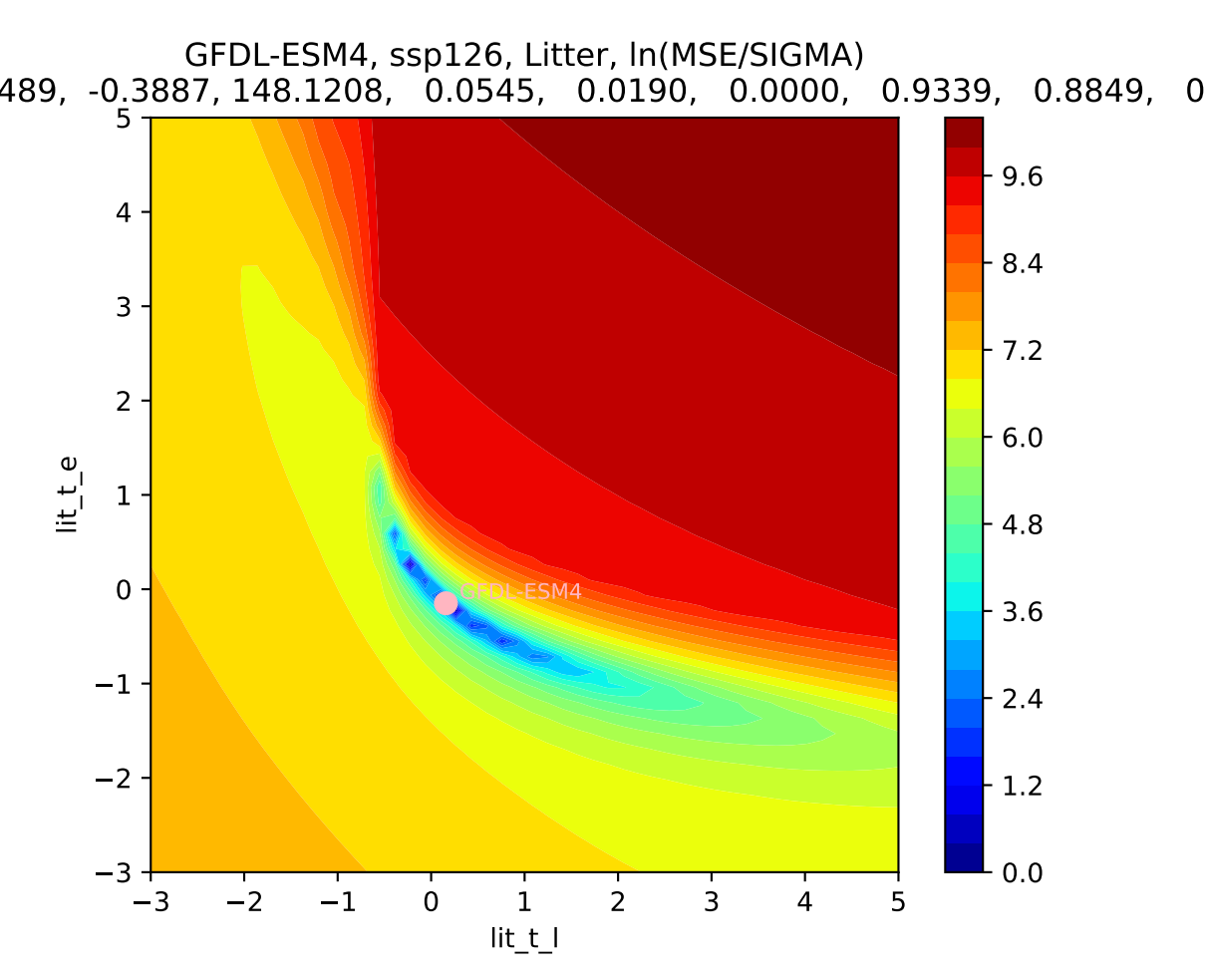

GFDL-ESM4, ssp126, Litter
ESM-Fit
Litter, ESM - FIT
Year

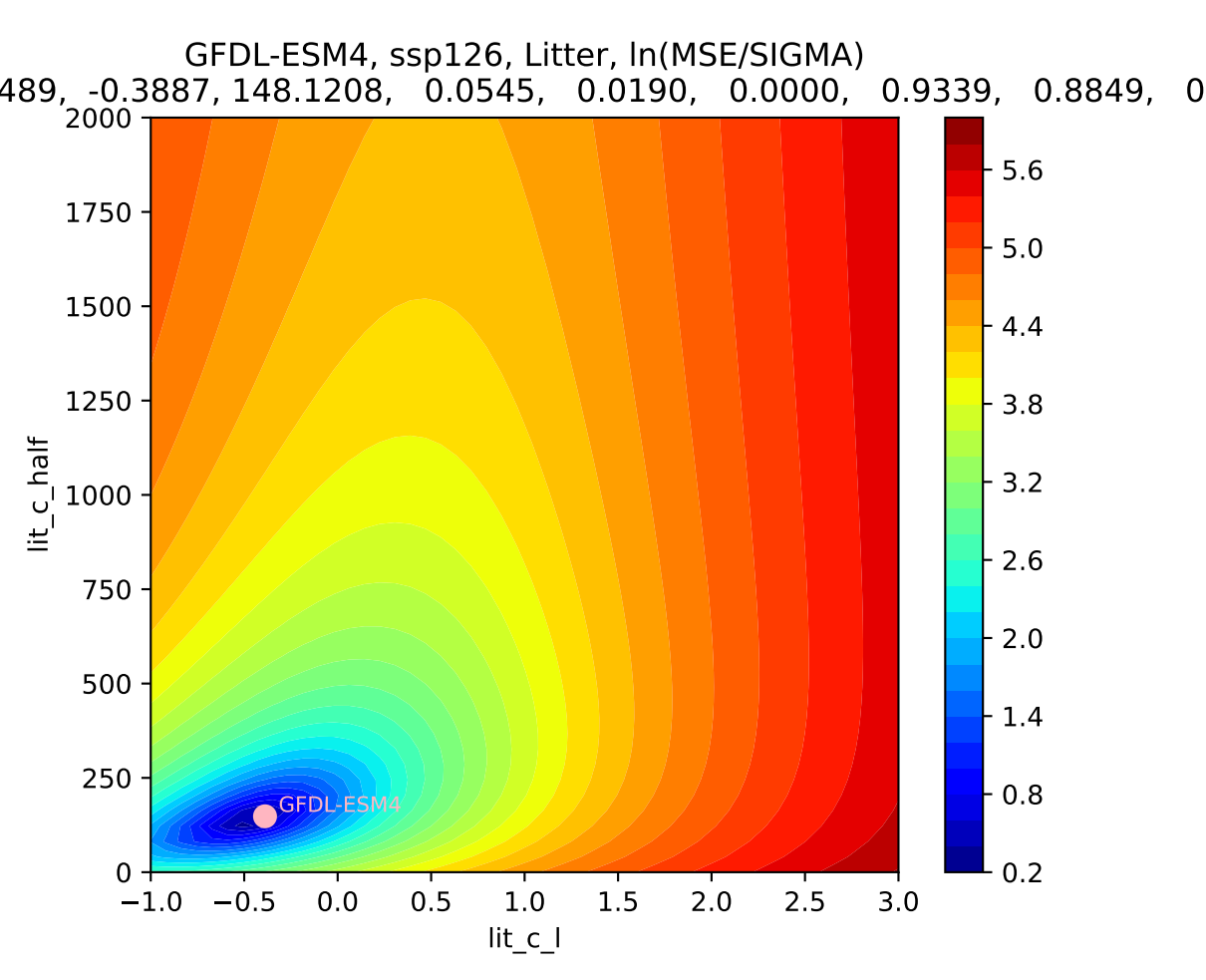

GFDL-ESM4, ssp126, Litter
ESM
Fit
Litter
ΔT

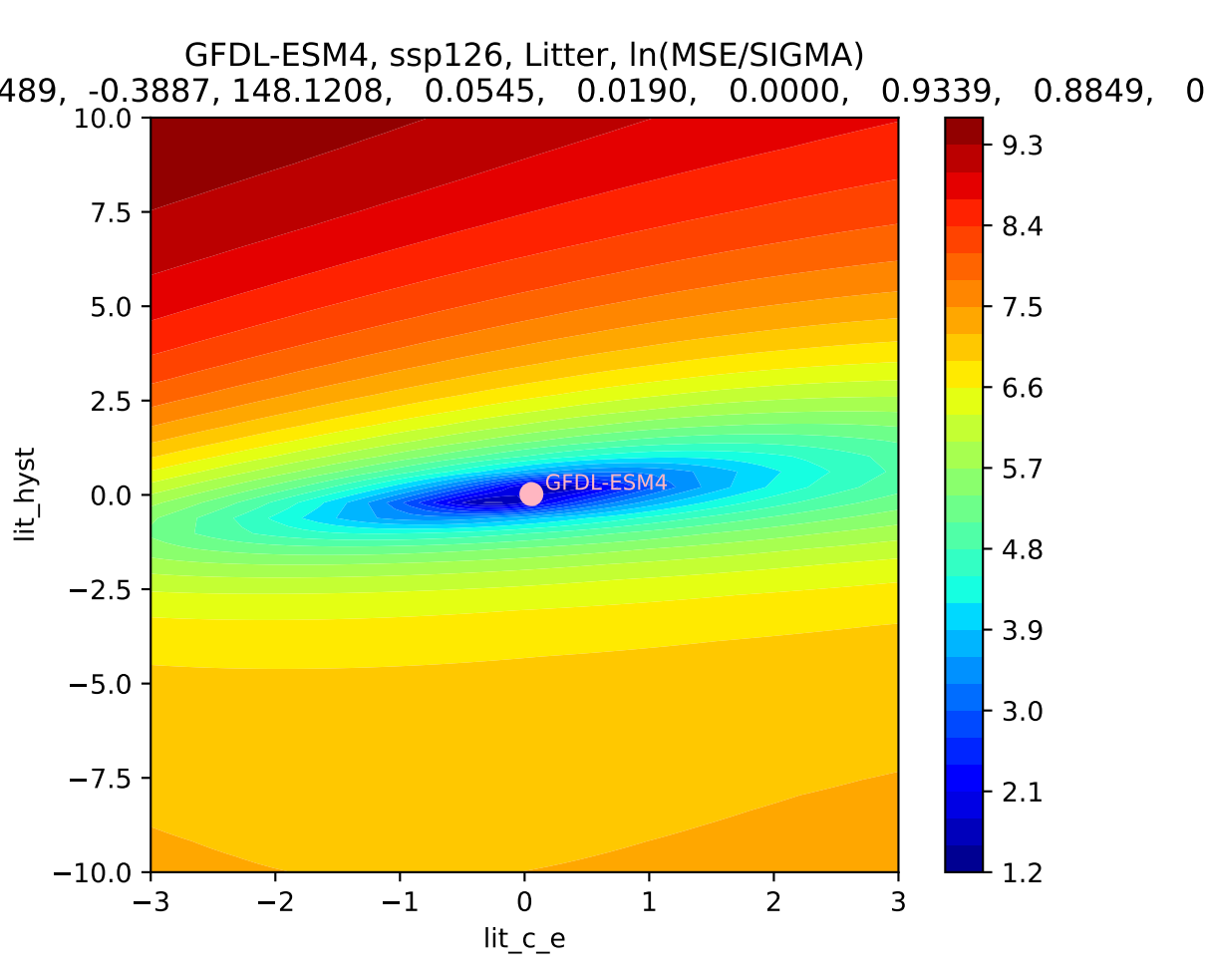

GFDL-ESM4, ssp126, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

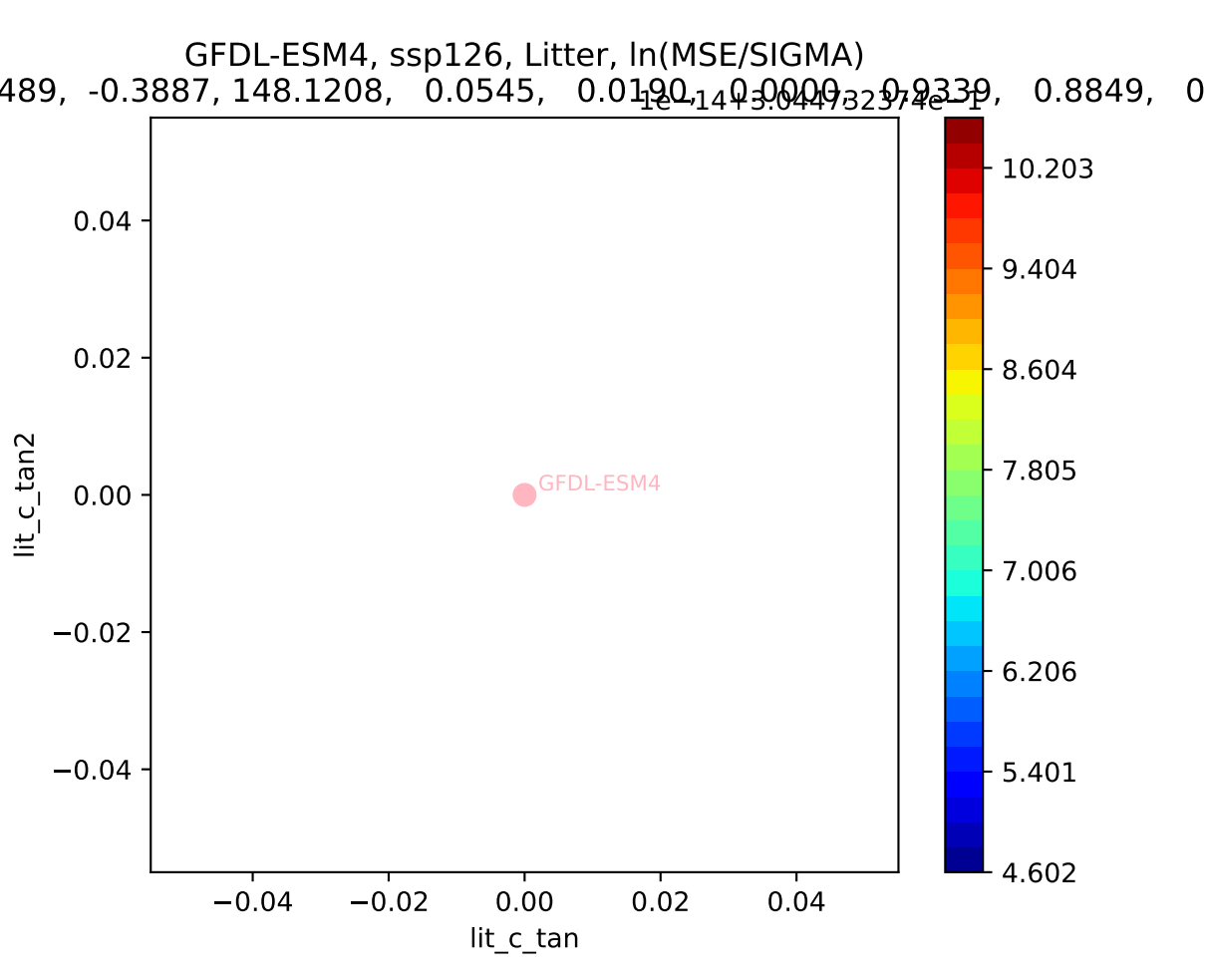

GFDL-ESM4, ssp126, Litter
ESM
Fit
Litter
c_atm

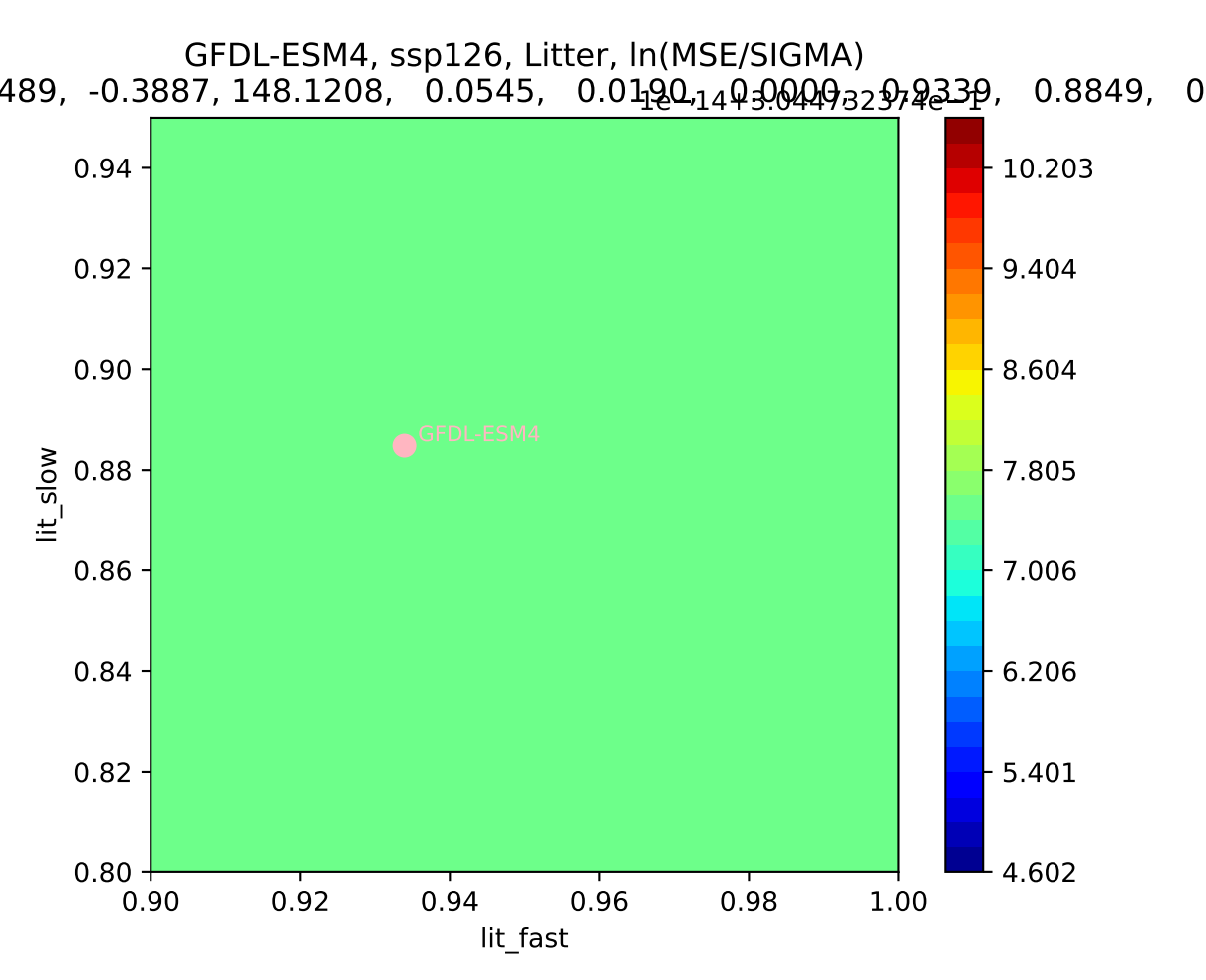

GFDL-ESM4, ssp126, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

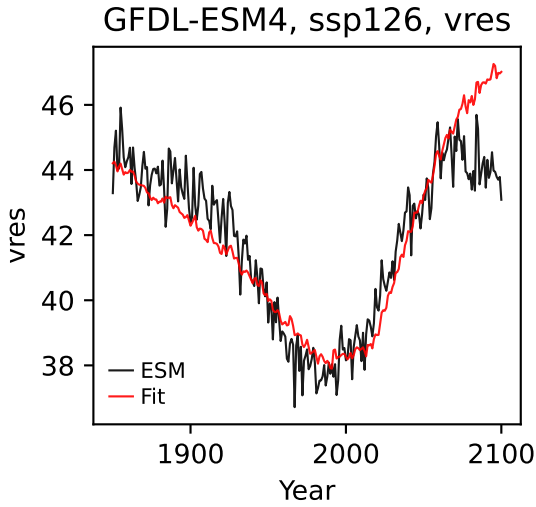

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1208, 0.0545, 0.0190, 0.0000, 0.9339, 0.8849, 0
GFDL-ESM4
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

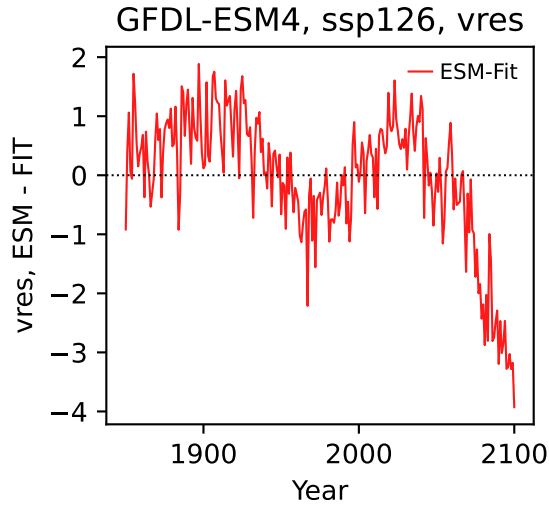

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1208, 0.0545, 0.0190, 0.0000, 0.9339, 0.8849, 0
lit_c_half
lit_c_l
GFDL-ESM4
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
5.6
5.0
4.4
3.8
3.2
2.6
2.0
1.4
0.8
0.2

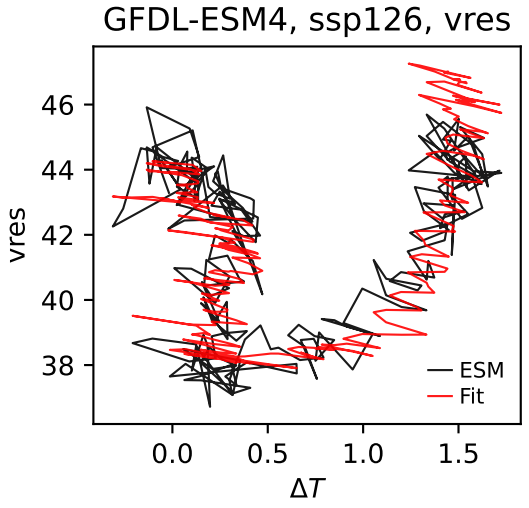

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1208, 0.0545, 0.0190, 0.0000, 0.9339, 0.8849, 0
GFDL-ESM4
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2

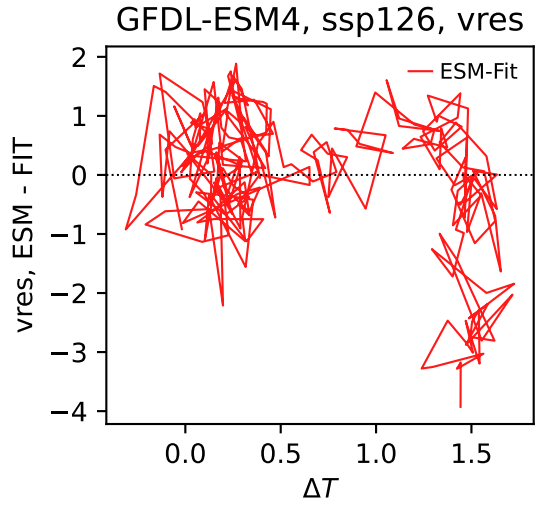

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1208, 0.0545, 0.0190, 0.0000, 0.9339, 0.8849, 0
1e−14+3.044732374e−1
GFDL-ESM4
lit_c_tan2
lit_c_tan
0.04
0.02
0.00
−0.02
−0.04
10.203
9.404
8.604
7.805
7.006
6.206
5.401
4.602

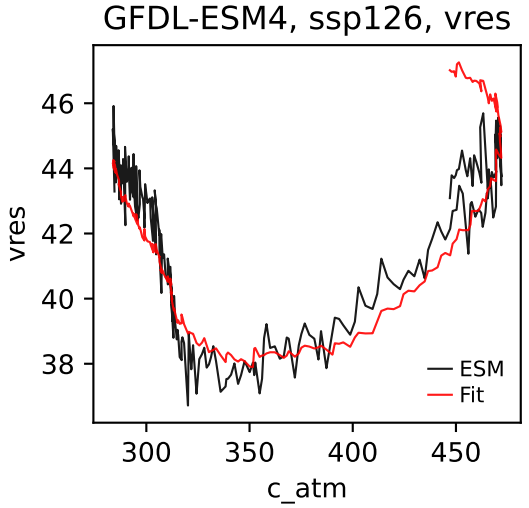

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1208, 0.0545, 0.0190, 0.0000, 0.9339, 0.8849, 0
1e-14+3.044732374e-1
GFDL-ESM4
lit_slow
lit_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
10.203
9.404
8.604
7.805
7.006
6.206
5.401
4.602

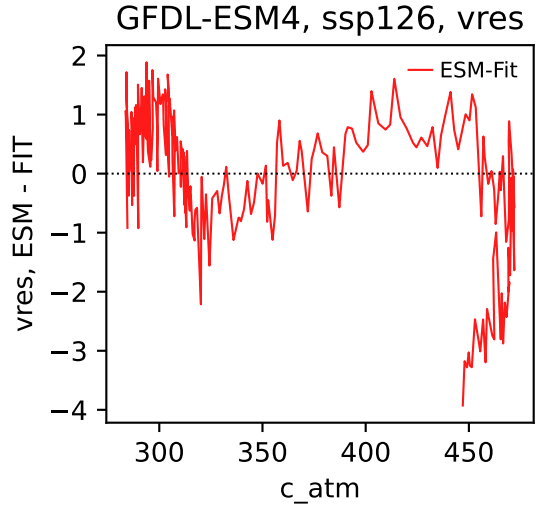

GFDL-ESM4, ssp126, vres
vres
Year
ESM
Fit

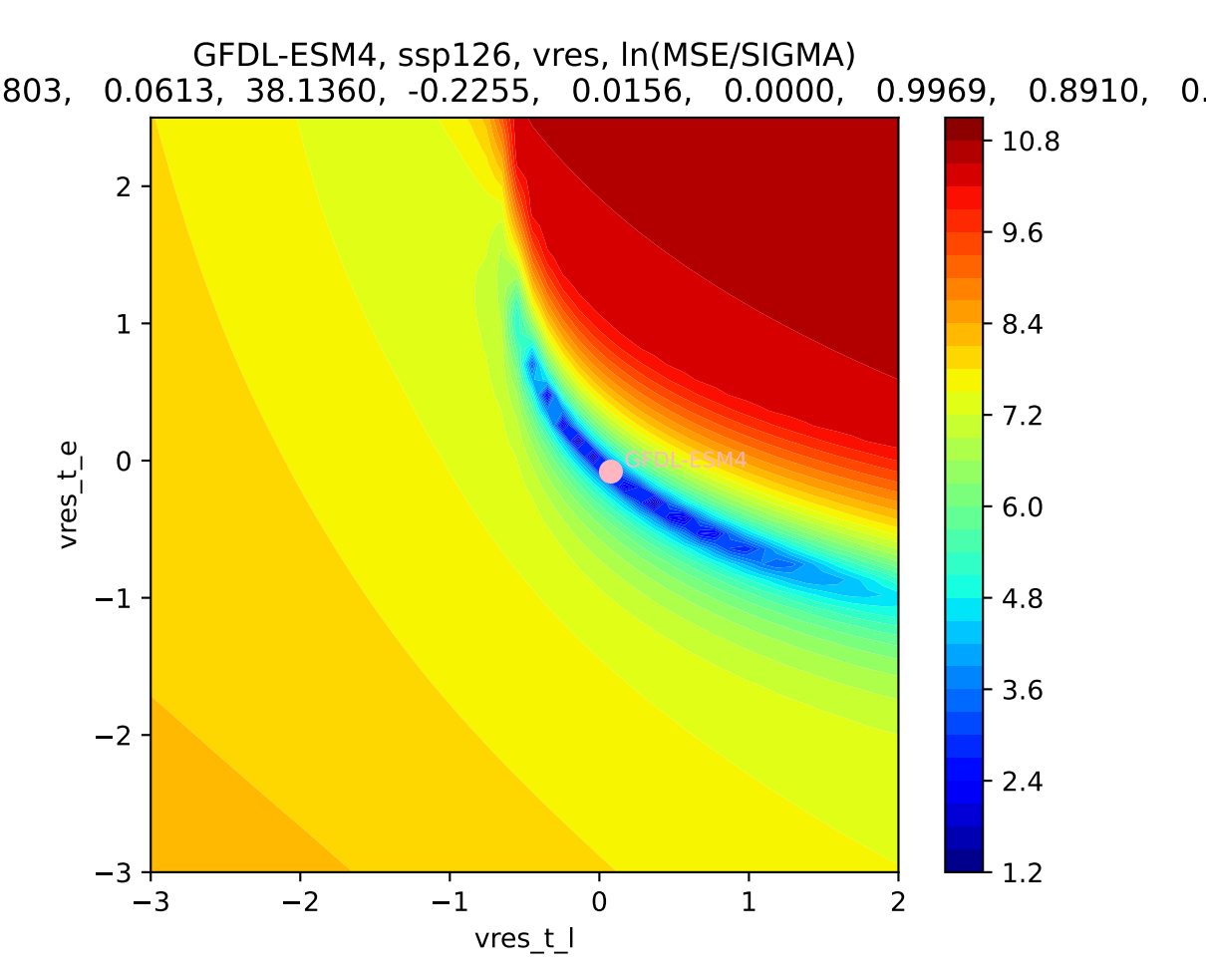

GFDL-ESM4, ssp126, vres
vres, ESM - FIT
Year
ESM-Fit

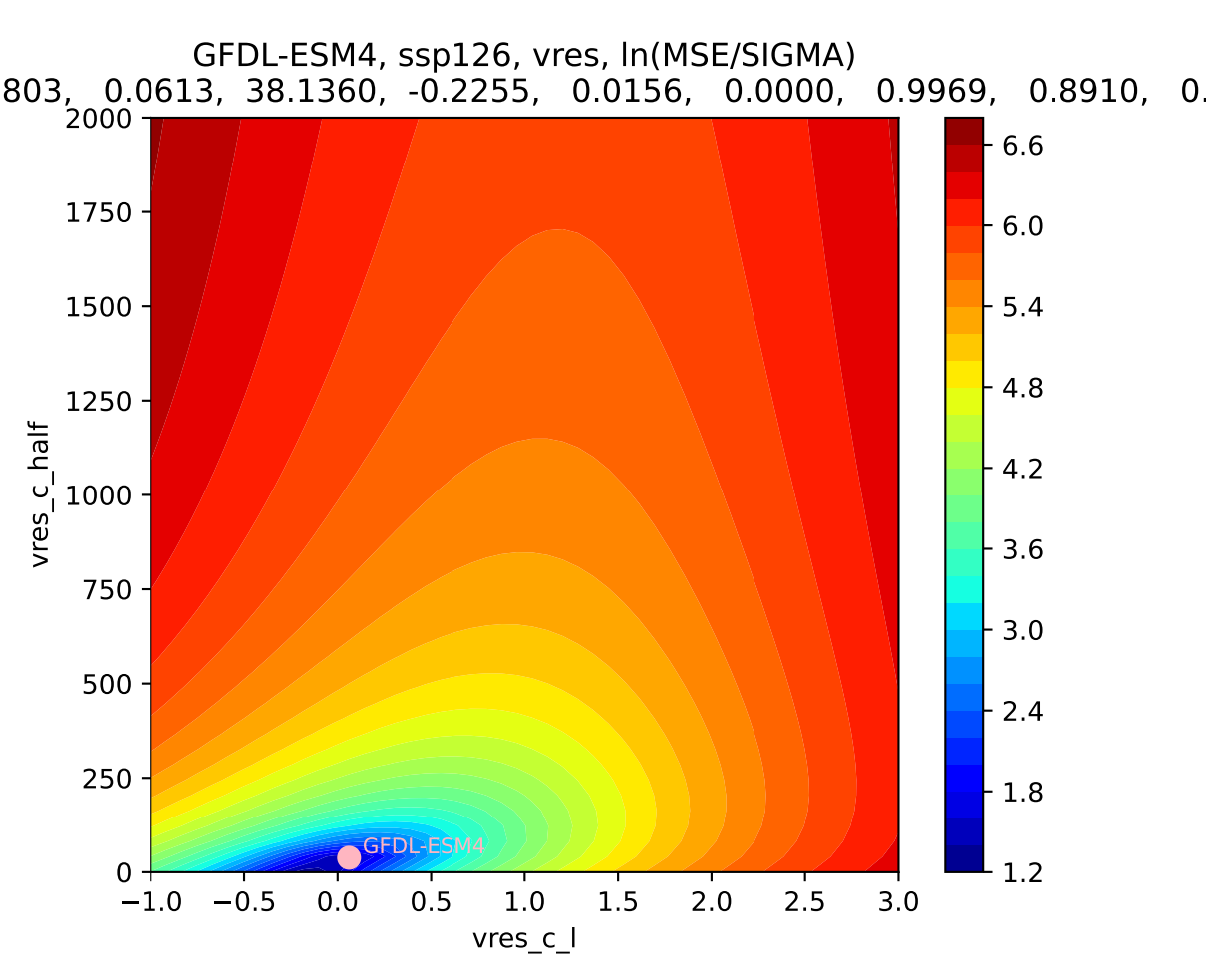

GFDL-ESM4, ssp126, vres
vres
ΔT
ESM
Fit

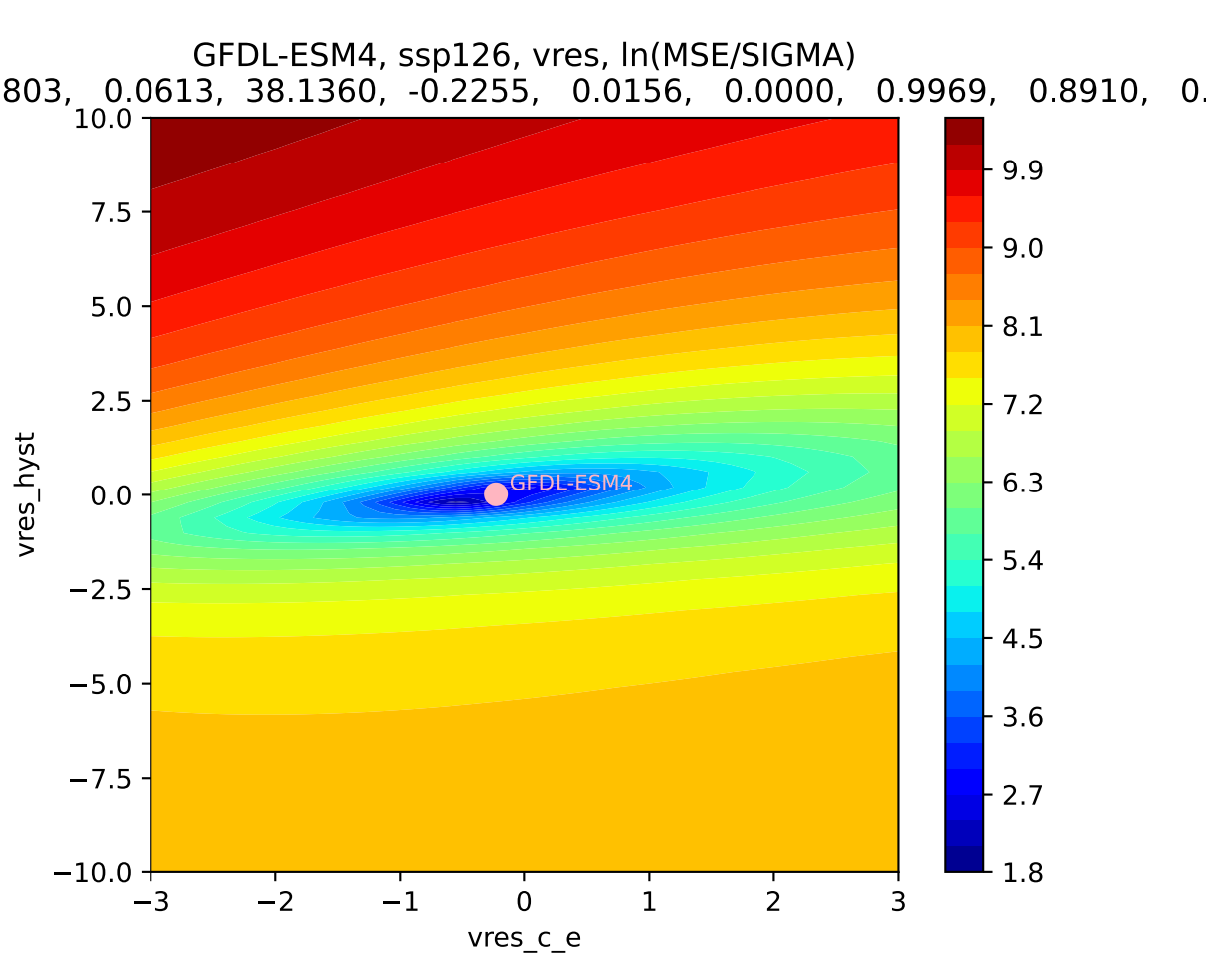

GFDL-ESM4, ssp126, vres
vres, ESM - FIT
ΔT
ESM-Fit

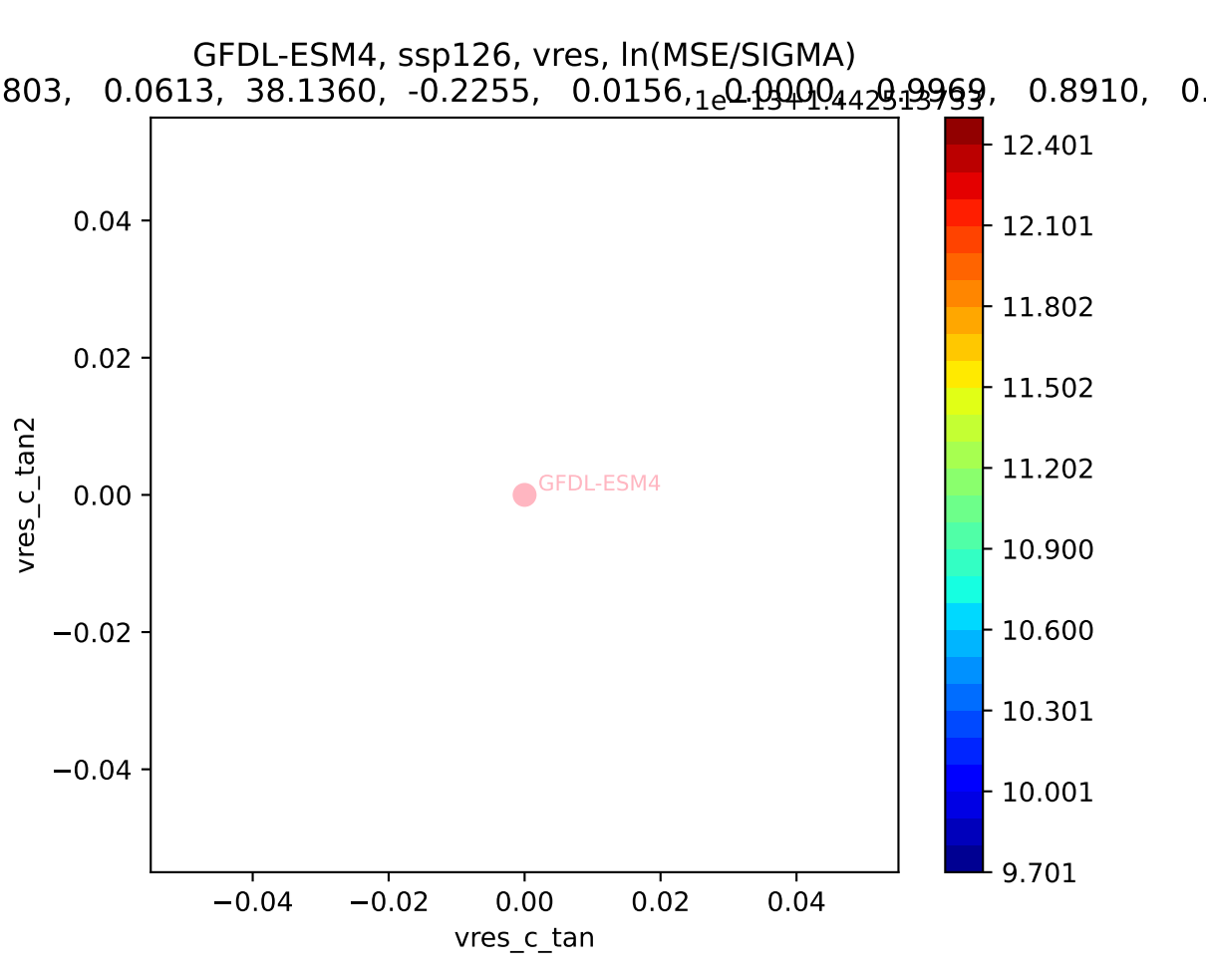

GFDL-ESM4, ssp126, vres
vres
c_atm
ESM
Fit

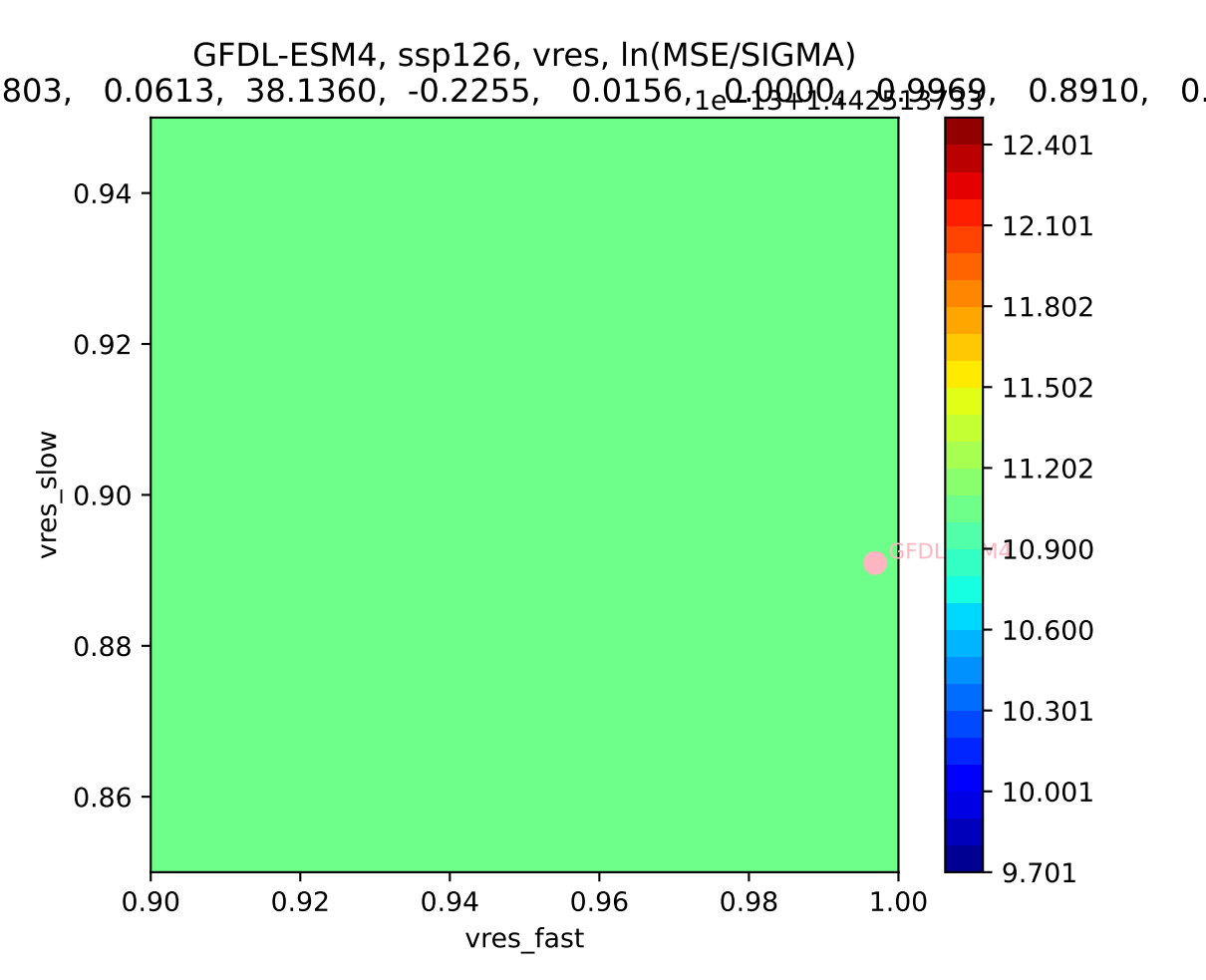

GFDL-ESM4, ssp126, vres
vres, ESM - FIT
c_atm
ESM-Fit

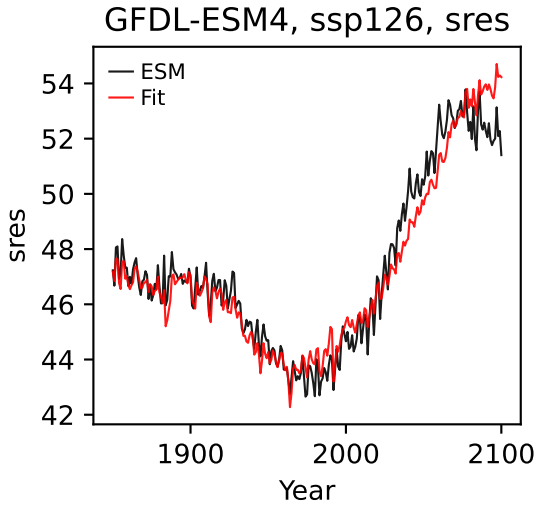

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1360, -0.2255, 0.0156, 0.0000, 0.9969, 0.8910, 0.
GFDL-ESM4
vres_t_e
vres_t_l
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

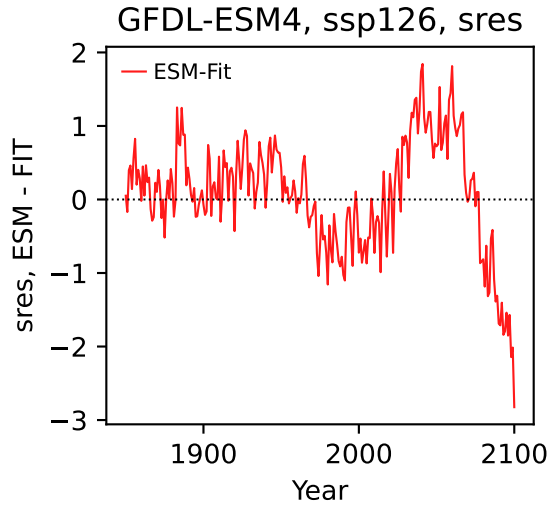

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1360, -0.2255, 0.0156, 0.0000, 0.9969, 0.8910, 0.
2000
1750
1500
1250
1000
750
500
250
0
vres_c_half
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
vres_c_l
GFDL-ESM4
6.6
6.0
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2

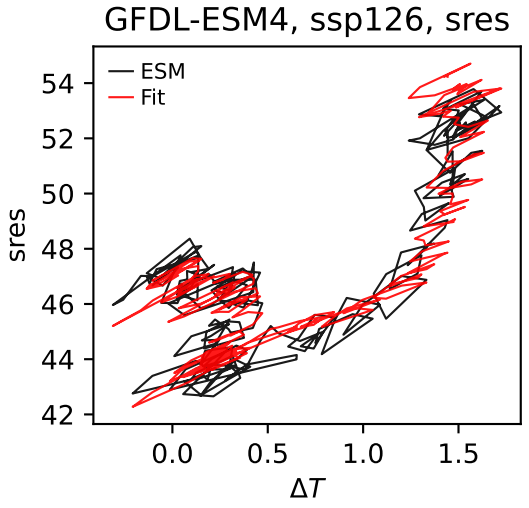

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1360, -0.2255, 0.0156, 0.0000, 0.9969, 0.8910, 0.
GFDL-ESM4
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8

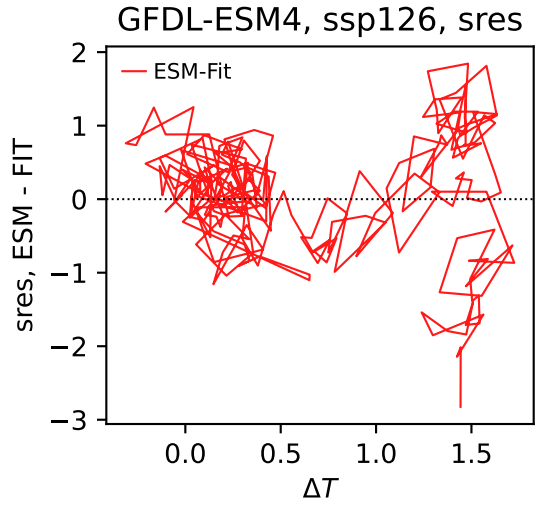

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1360, -0.2255, 0.0156, 0.0000, 0.9969, 0.8910, 0.
1e-134 1.442513753
GFDL-ESM4
vres_c_tan2
vres_c_tan
0.04
0.02
0.00
−0.02
−0.04
12.401
12.101
11.802
11.502
11.202
10.900
10.600
10.301
10.001
9.701

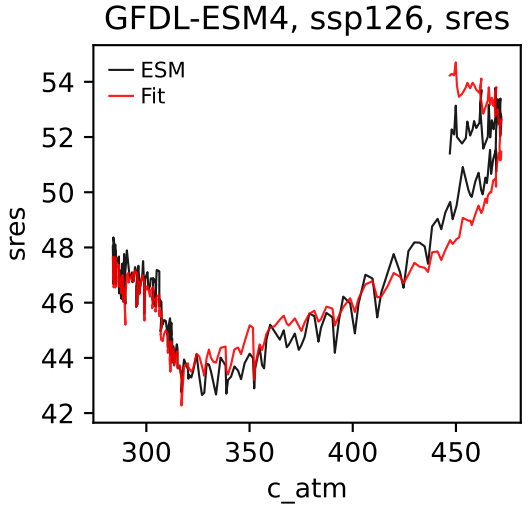

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1360, -0.2255, 0.0156, 0.0000, 0.9969, 0.8910, 0.
1e-13 1.442513793
0.94
0.92
0.90
0.88
0.86
vres_slow
0.90
0.92
0.94
0.96
0.98
1.00
vres_fast
12.401
12.101
11.802
11.502
11.202
10.900
10.600
10.301
10.001
9.701

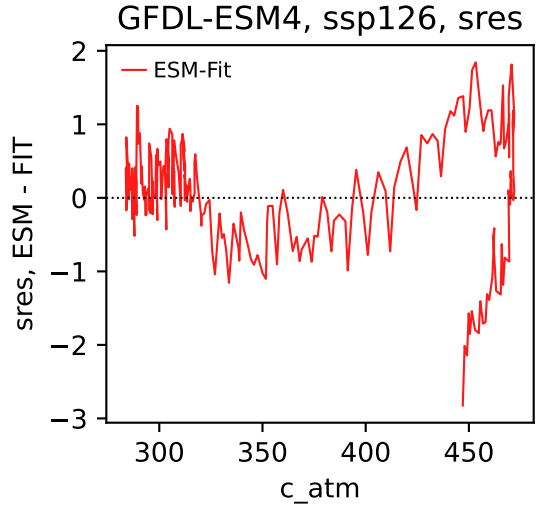

GFDL-ESM4, ssp126, sres
ESM
Fit
sres
Year

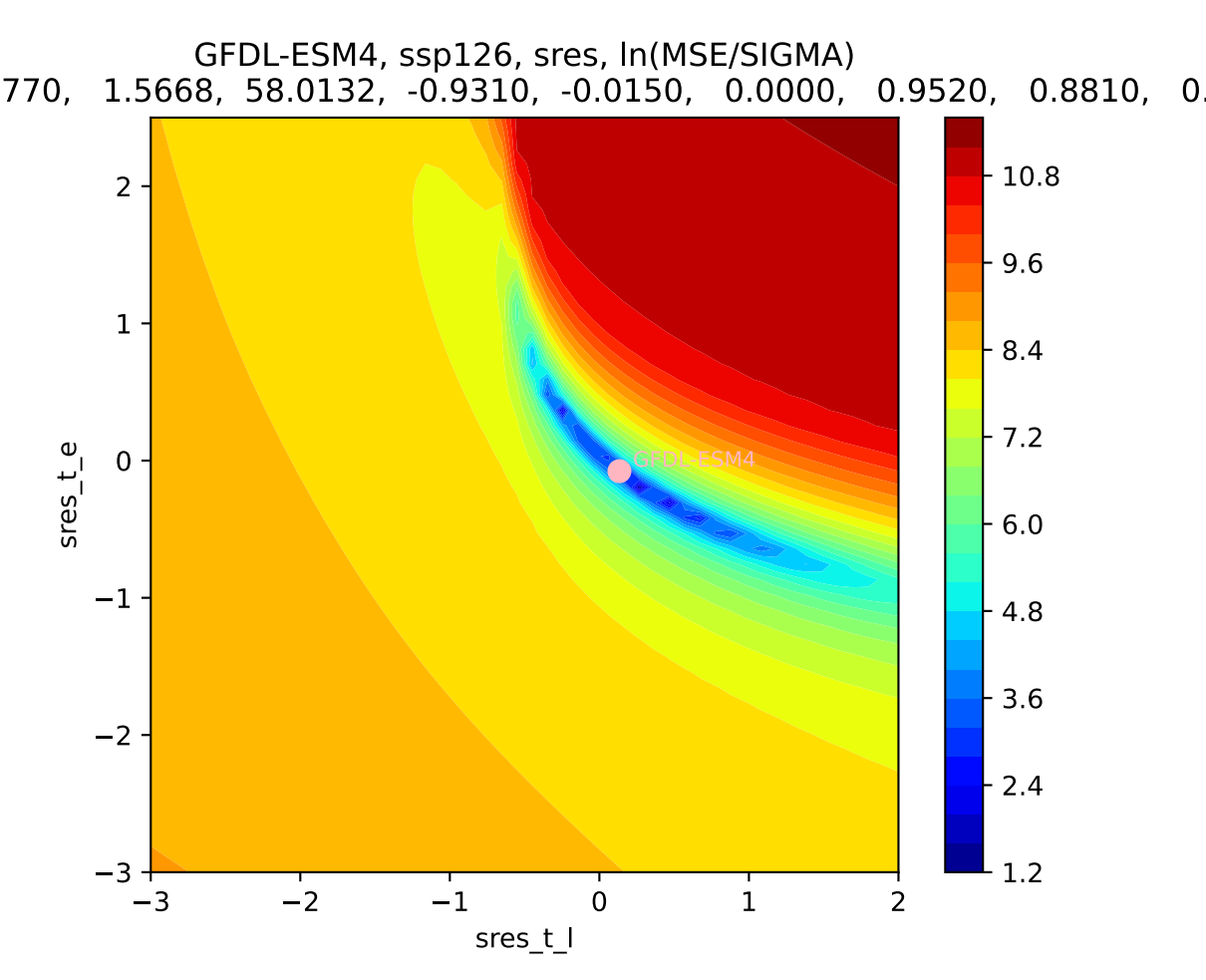

GFDL-ESM4, ssp126, sres
ESM-Fit
sres, ESM - FIT
Year

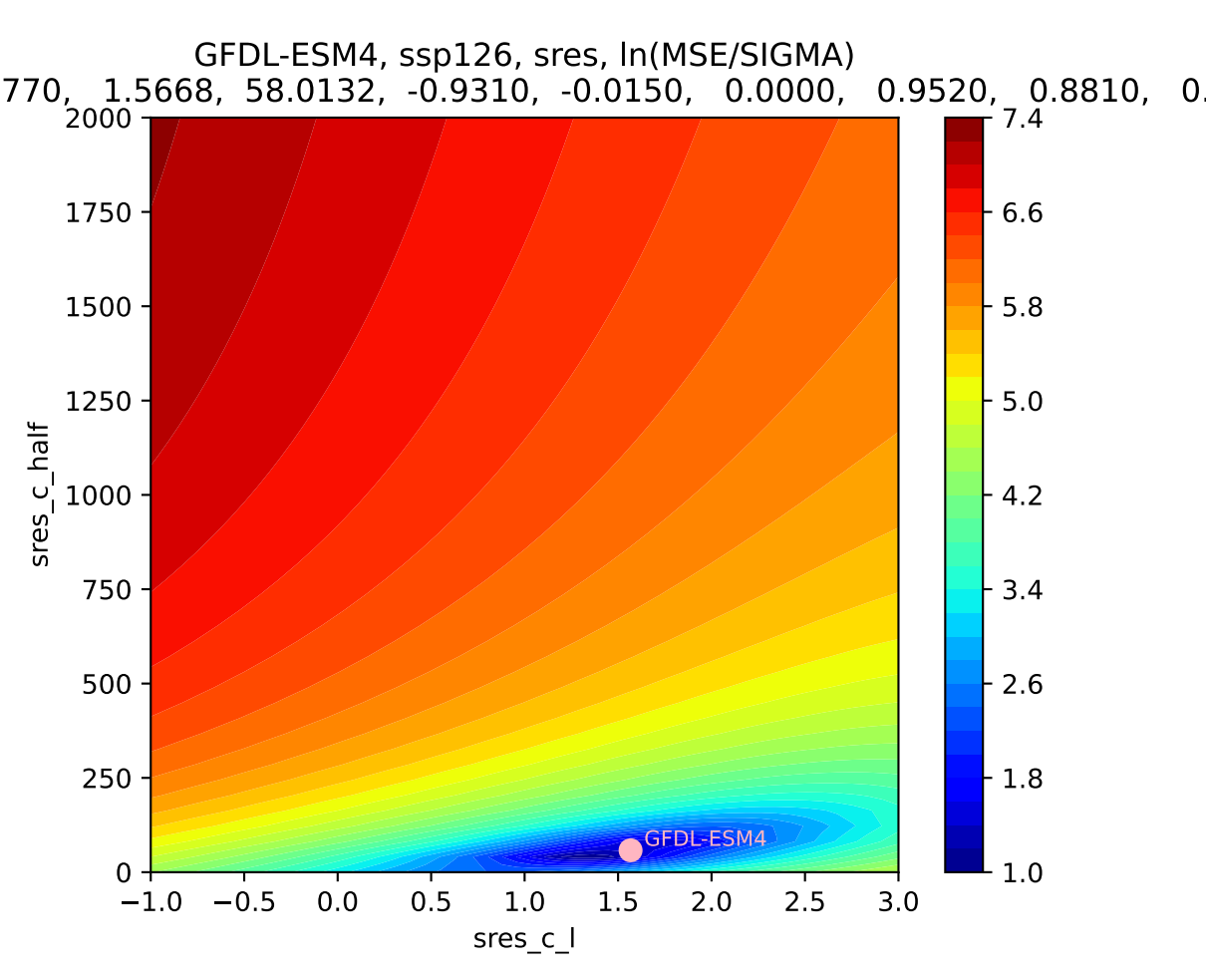

GFDL-ESM4, ssp126, sres
ESM
Fit
sres
ΔT

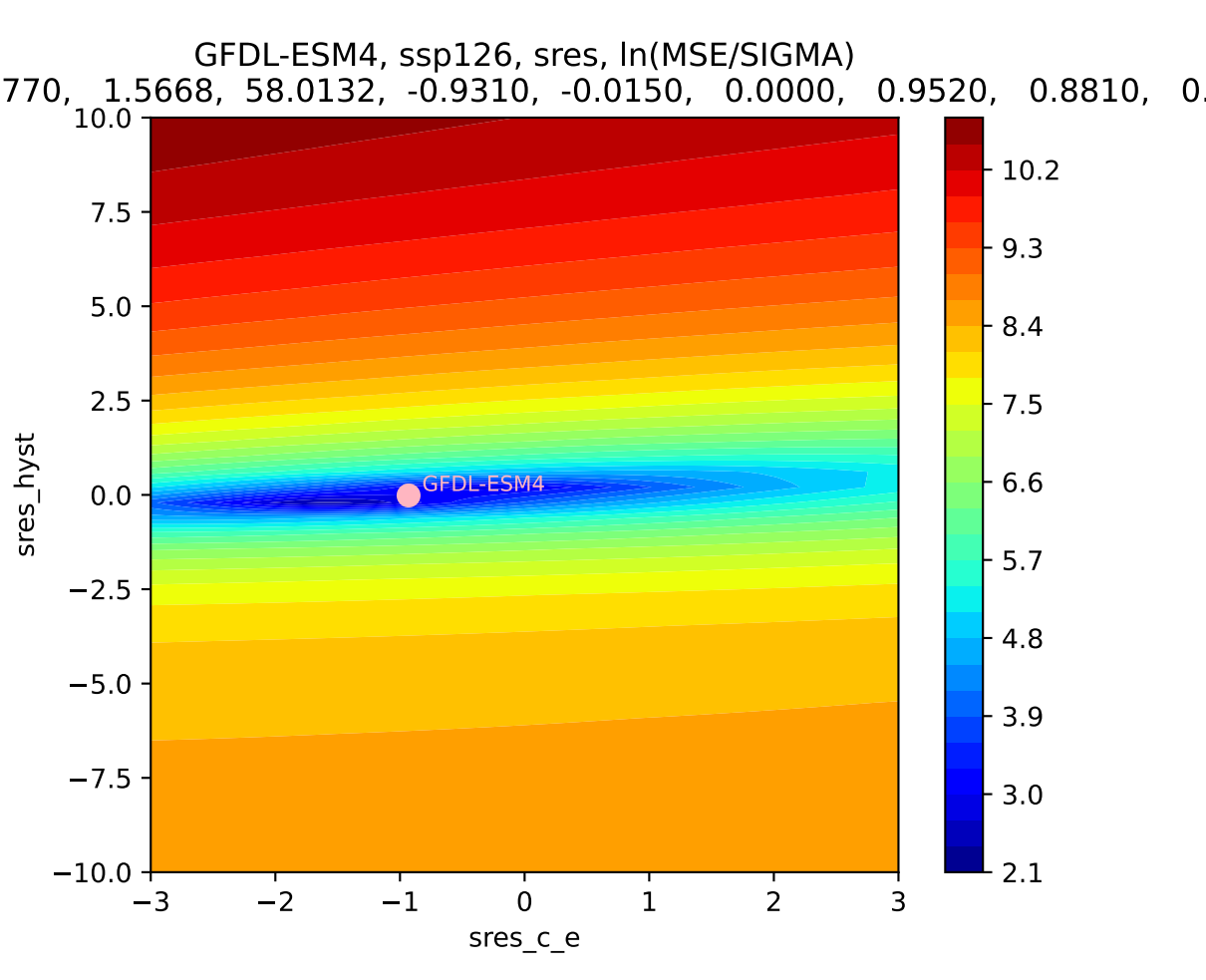

GFDL-ESM4, ssp126, sres
ESM-Fit
sres, ESM - FIT
ΔT

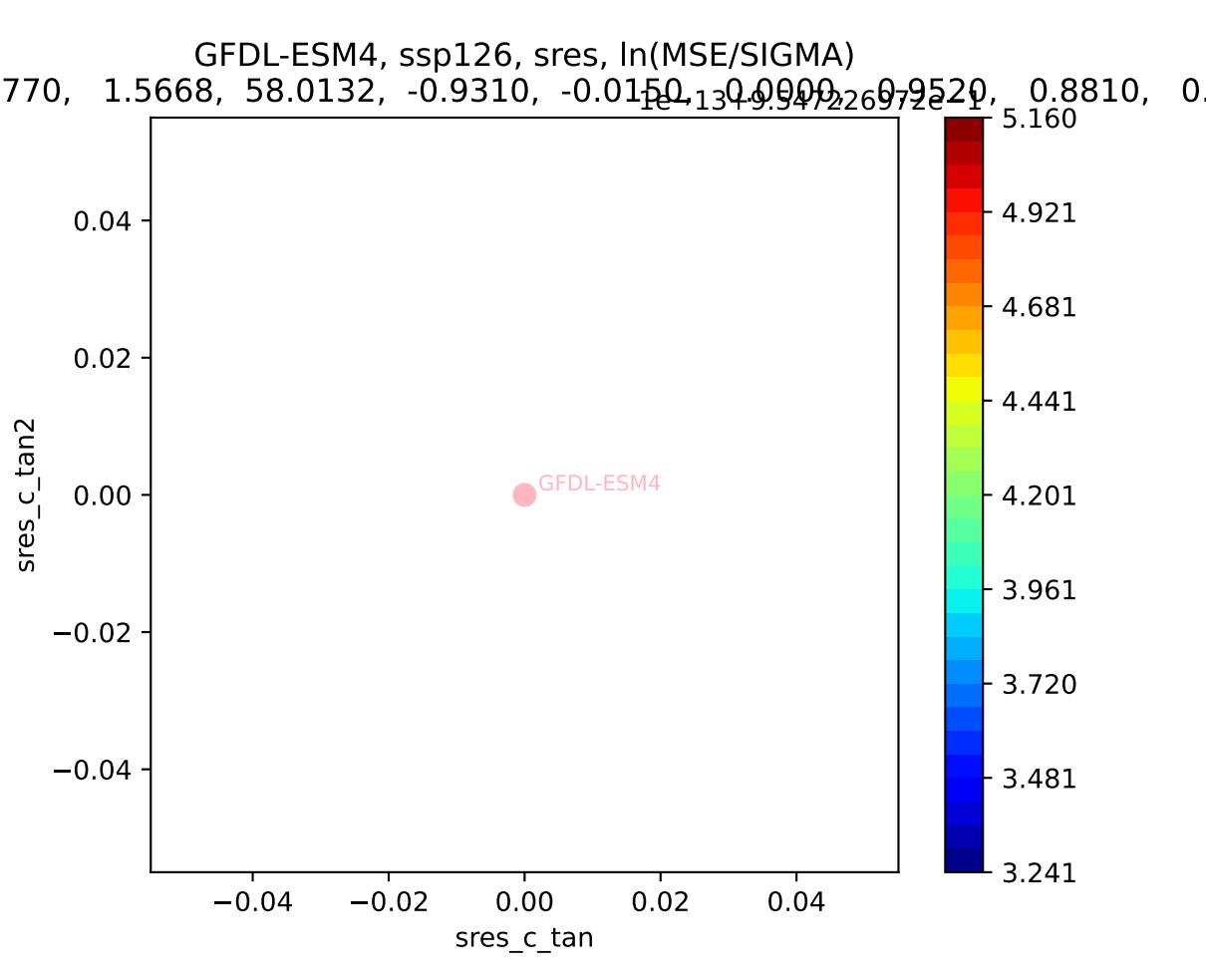

GFDL-ESM4, ssp126, sres
ESM
Fit
sres
c_atm

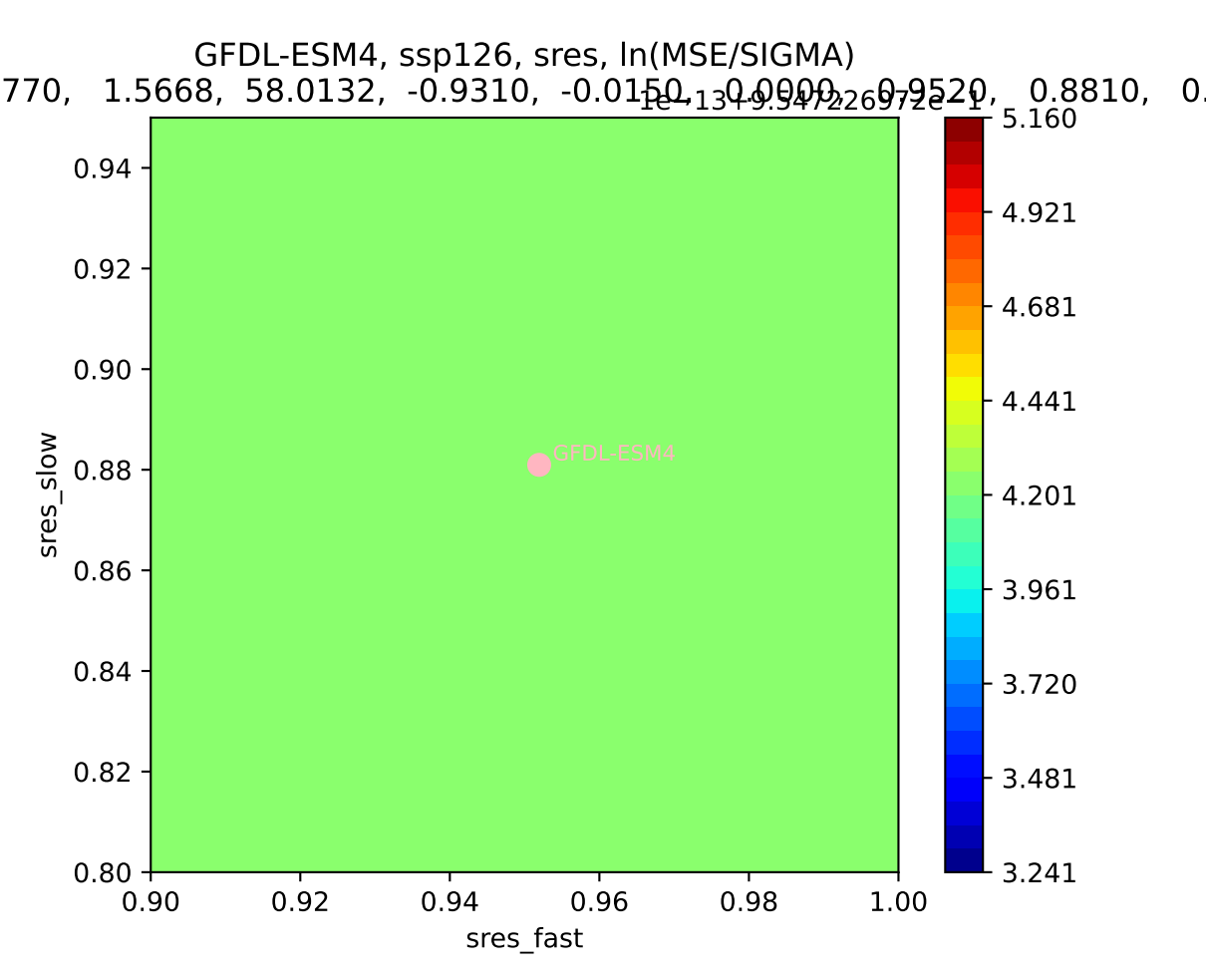

GFDL-ESM4, ssp126, sres
ESM-Fit
sres, ESM - FIT
c_atm

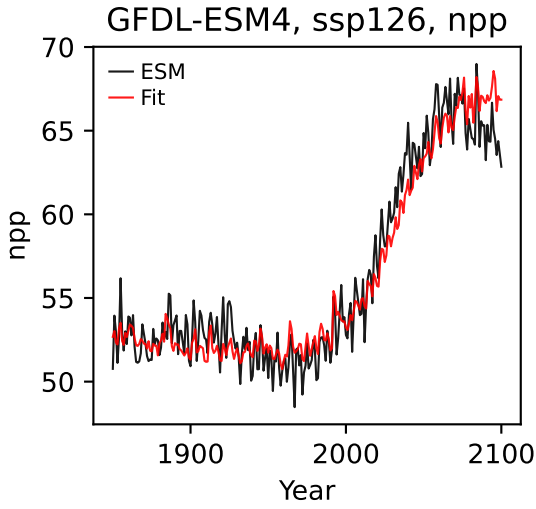

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5668, 58.0132, -0.9310, -0.0150, 0.0000, 0.9520, 0.8810, 0.
GFDL-ESM4
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

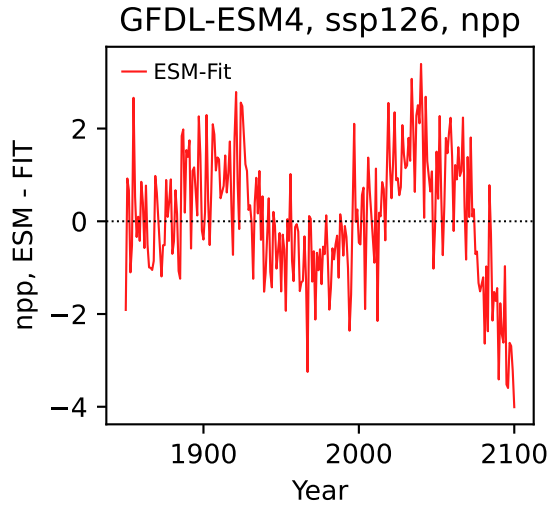

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5668, 58.0132, -0.9310, -0.0150, 0.0000, 0.9520, 0.8810, 0.
2000
1750
1500
1250
1000
750
500
250
0
sres_c_half
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
sres_c_l
GFDL-ESM4
7.4
6.6
5.8
5.0
4.2
3.4
2.6
1.8
1.0

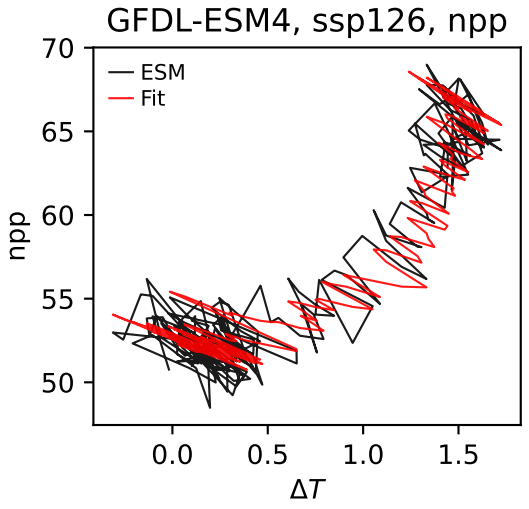

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5668, 58.0132, -0.9310, -0.0150, 0.0000, 0.9520, 0.8810, 0.
GFDL-ESM4
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.2
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1

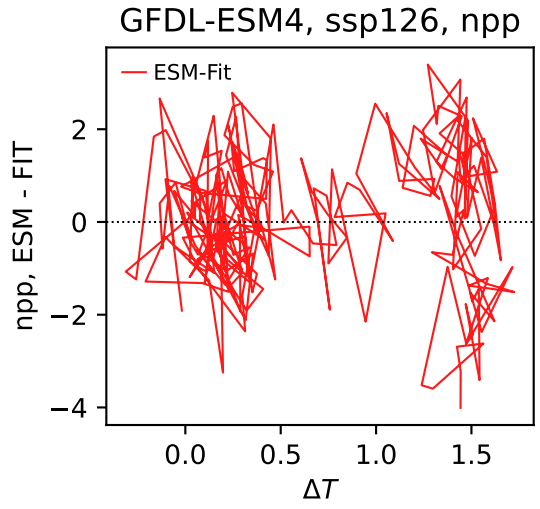

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5668, 58.0132, -0.9310, -0.0150, 0.0000, 0.9520, 0.8810, 0.
1e−131+9.547269 72e−1
GFDL-ESM4
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
5.160
4.921
4.681
4.441
4.201
3.961
3.720
3.481
3.241

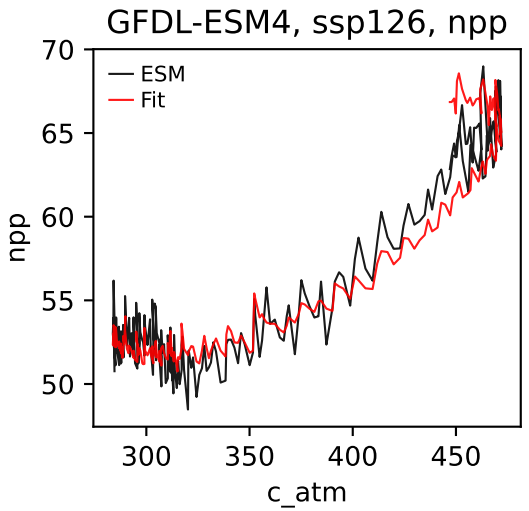

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5668, 58.0132, -0.9310, -0.0150, 0.0000, 0.9520, 0.8810, 0.
1e+13+9.547226972e-1
GFDL-ESM4
sres_slow
sres_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
5.160
4.921
4.681
4.441
4.201
3.961
3.720
3.481
3.241

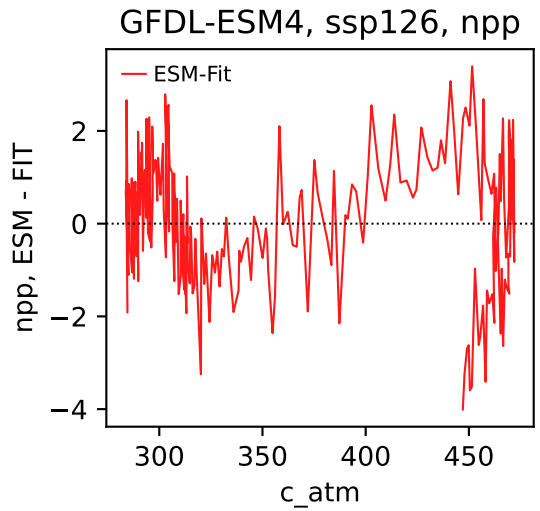

GFDL-ESM4, ssp126, npp
ESM
Fit
npp
Year

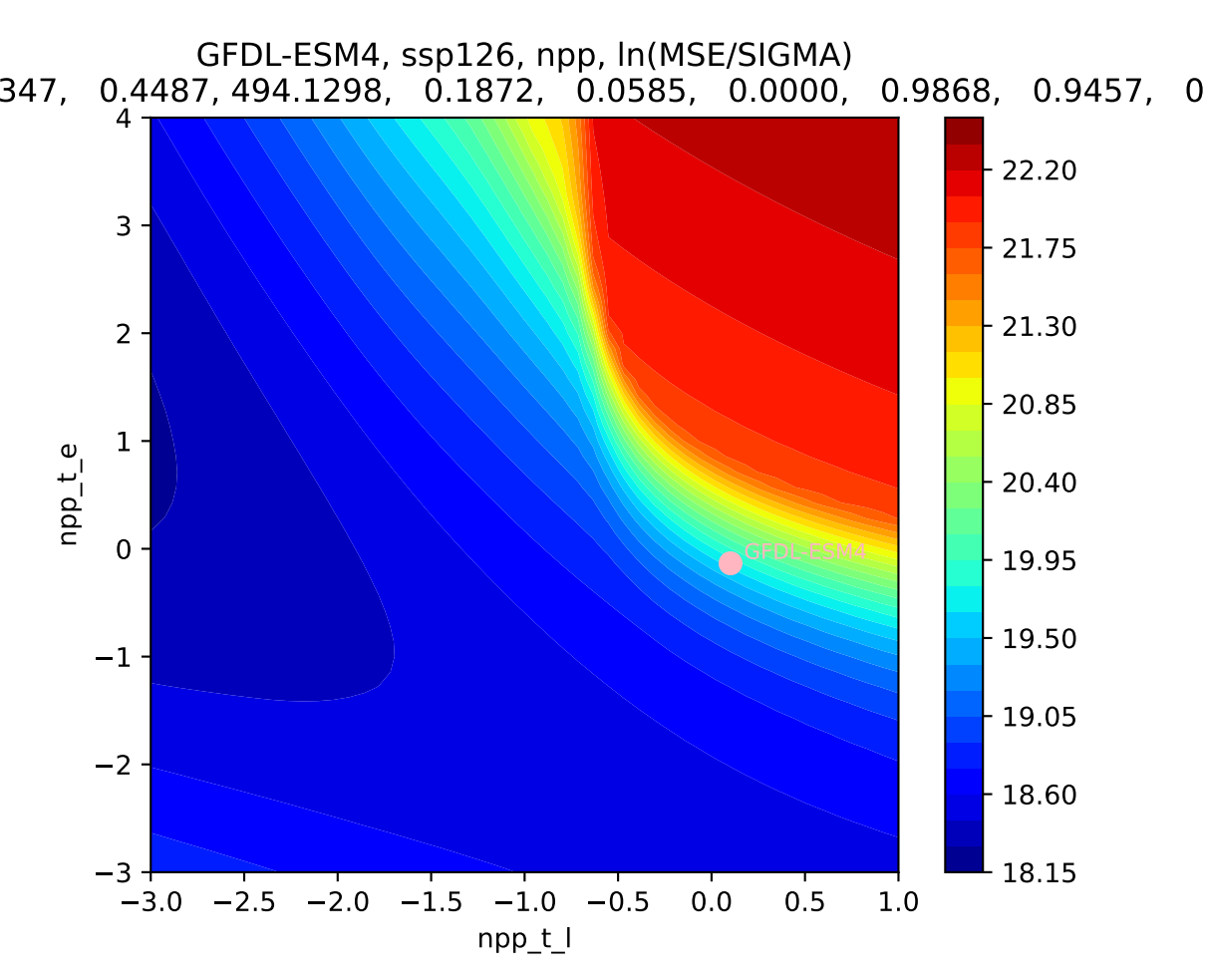

GFDL-ESM4, ssp126, npp
ESM-Fit
npp, ESM - FIT
Year

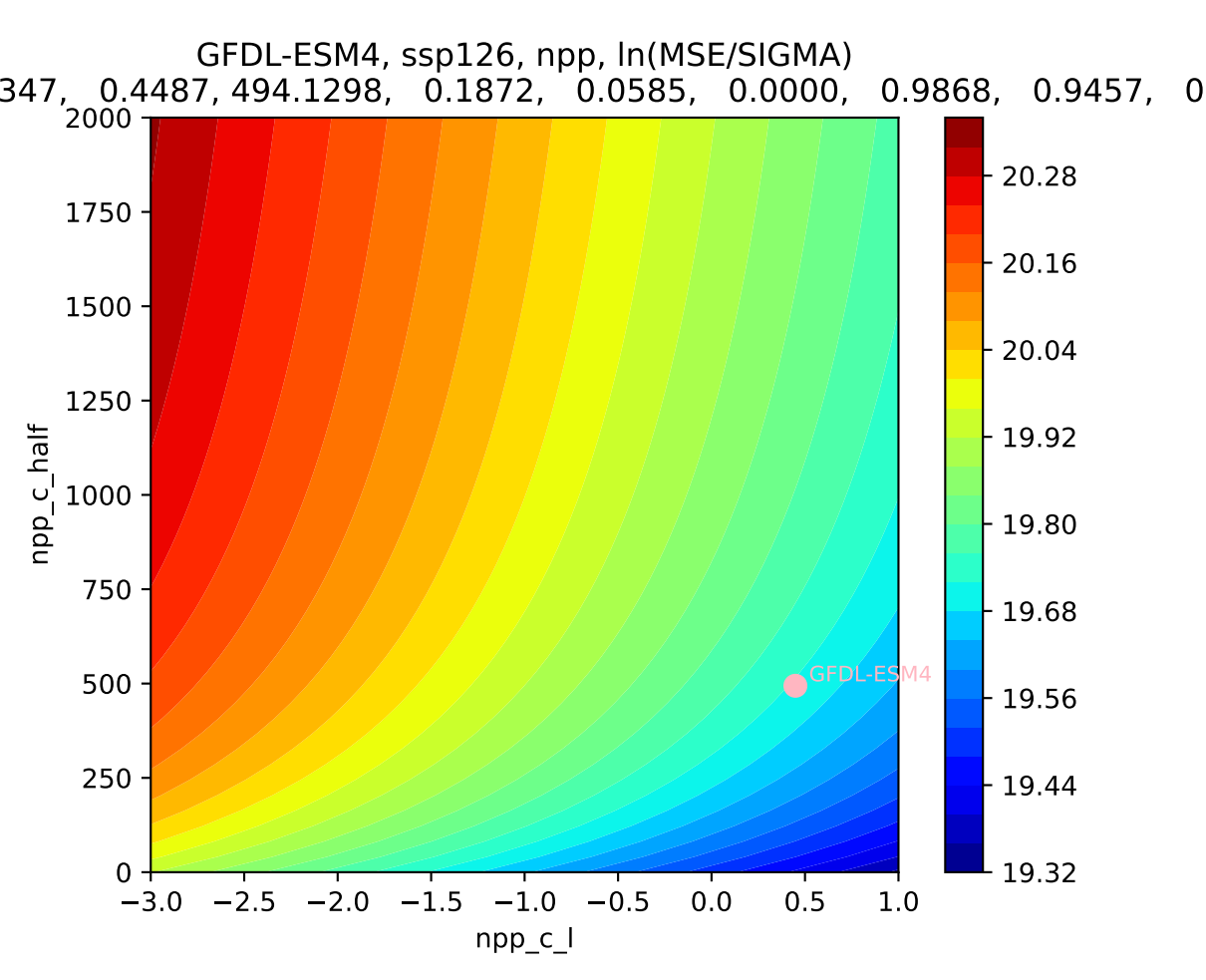

GFDL-ESM4, ssp126, npp
ESM
Fit
npp
ΔT

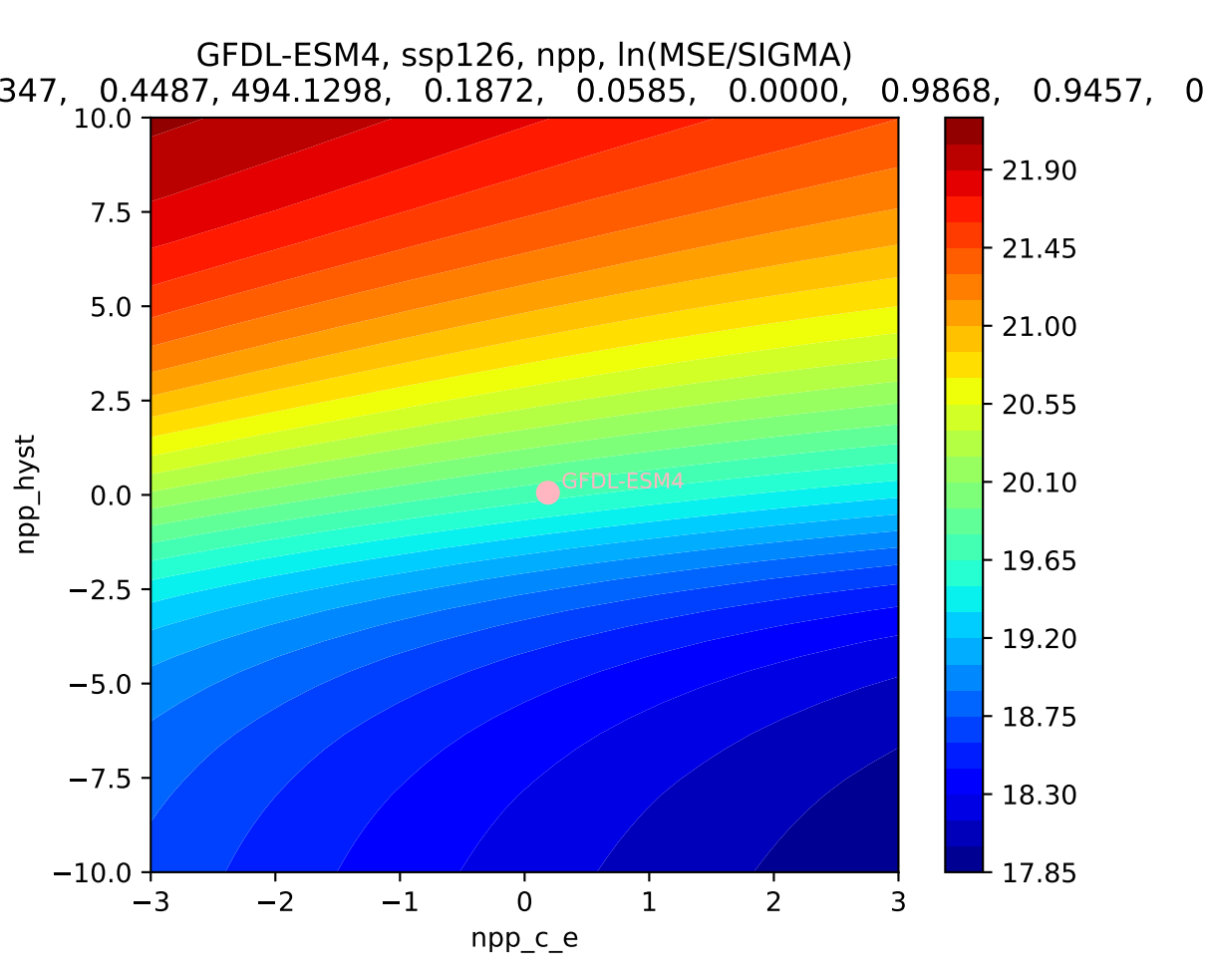

GFDL-ESM4, ssp126, npp
ESM-Fit
npp, ESM - FIT
ΔT

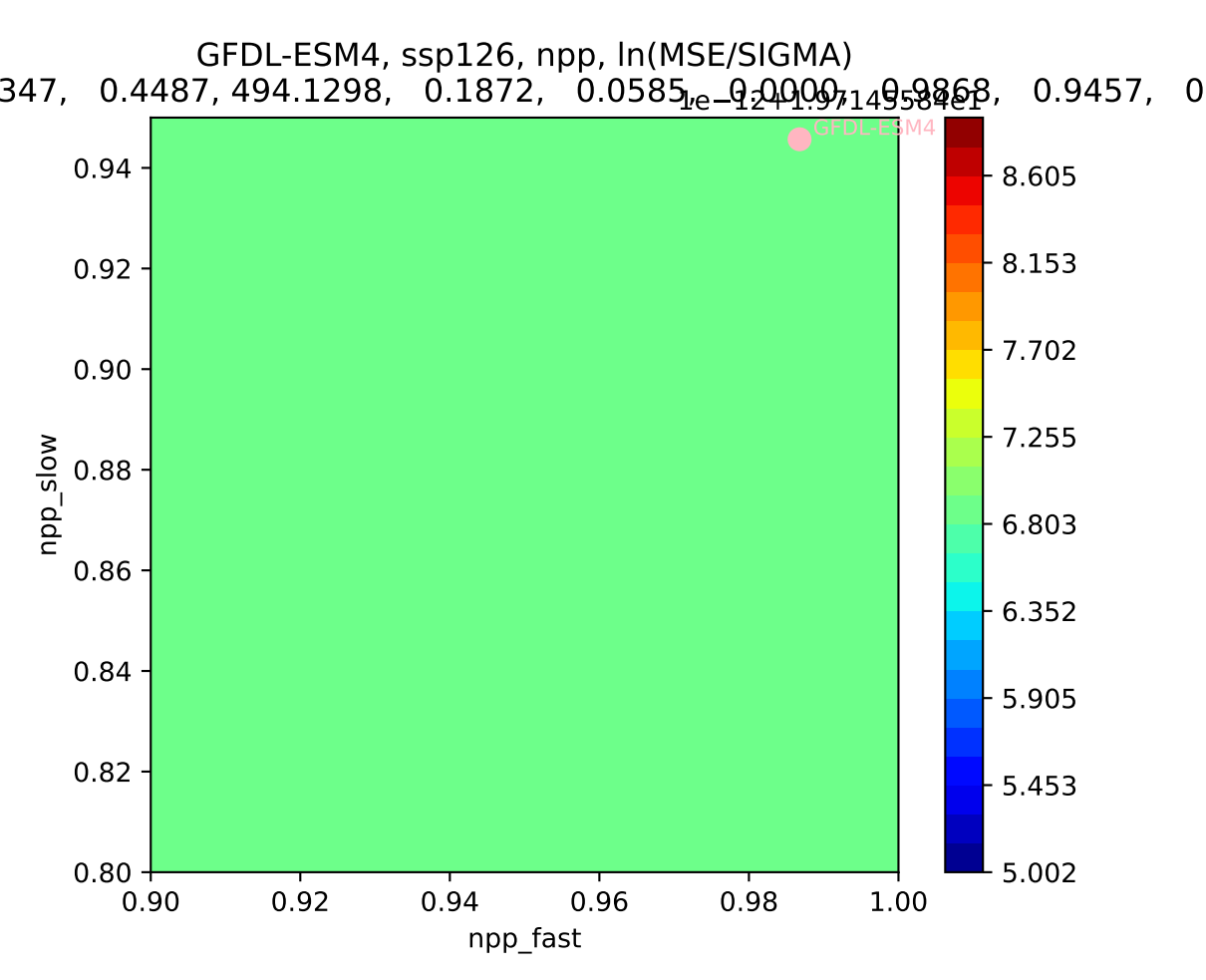

GFDL-ESM4, ssp126, npp
ESM
Fit
npp
c_atm

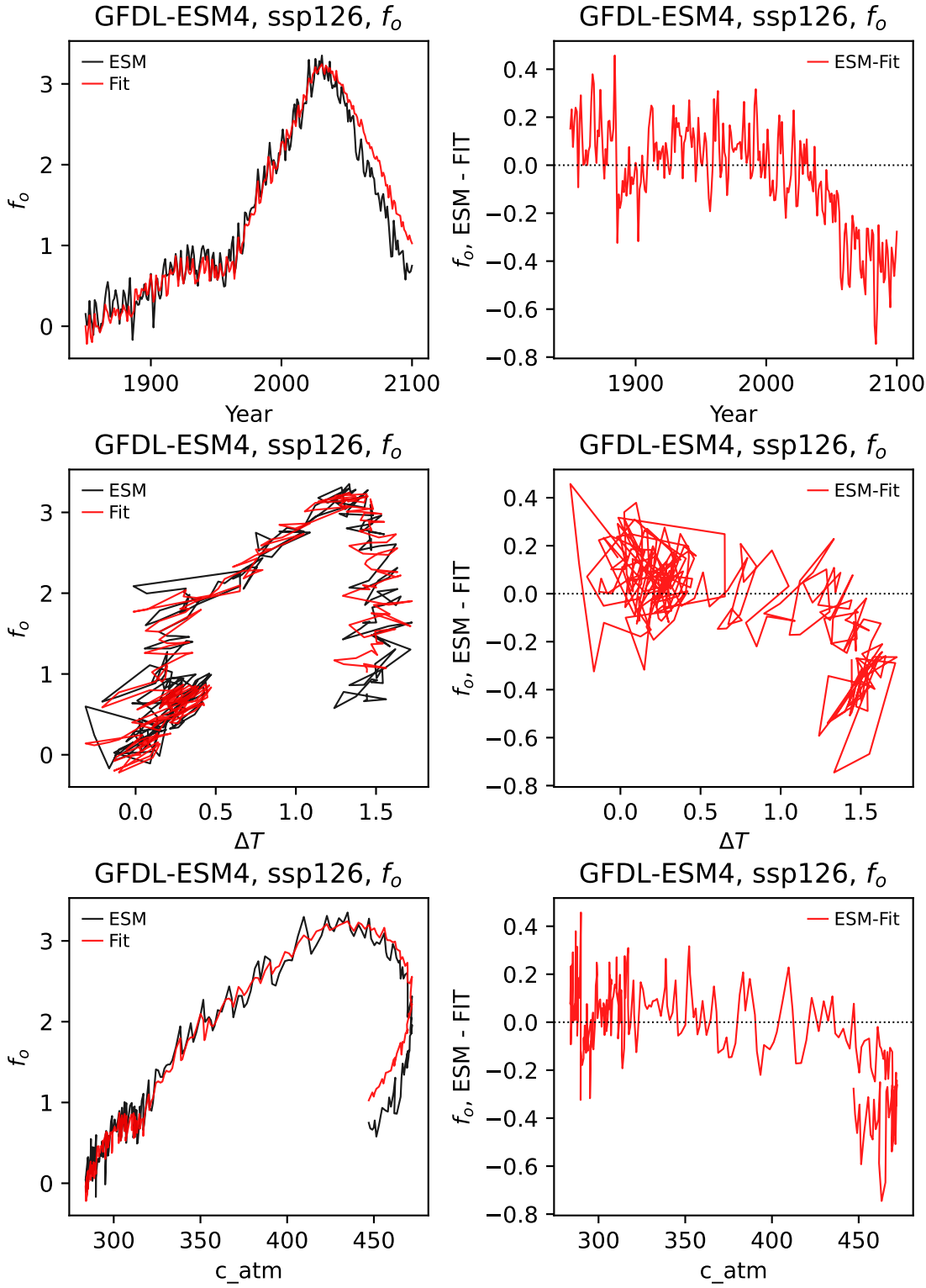

GFDL-ESM4, ssp126, npp
ESM-Fit
npp, ESM - FIT
c_atm

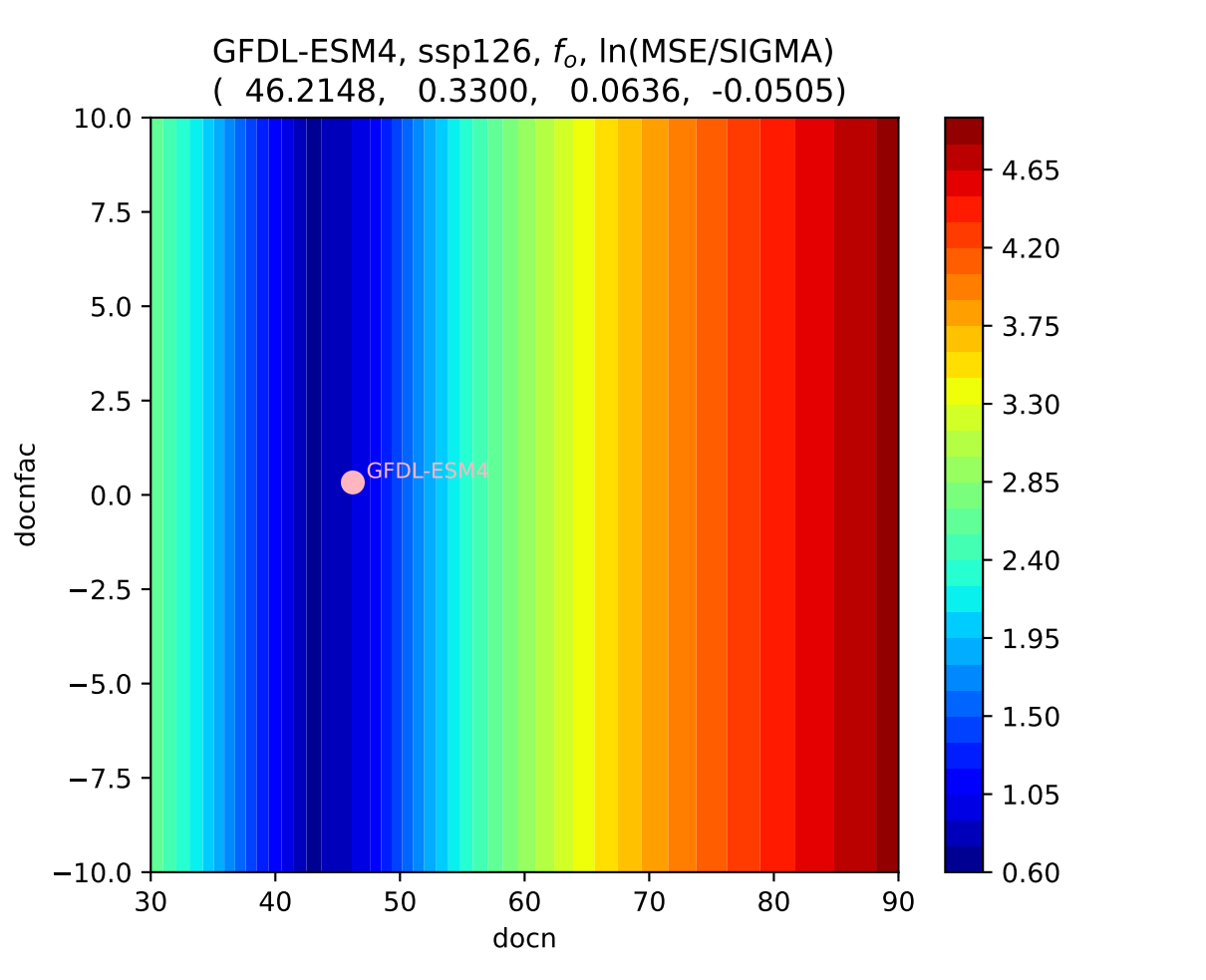

GFDL-ESM4, ssp126, npp, ln(MSE/SIGMA)
347, 0.4487, 494.1298, 0.1872, 0.0585, 0.0000, 0.9868, 0.9457, 0
npp_t_e
npp_t_l
GFDL-ESM4
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05
18.60
18.15

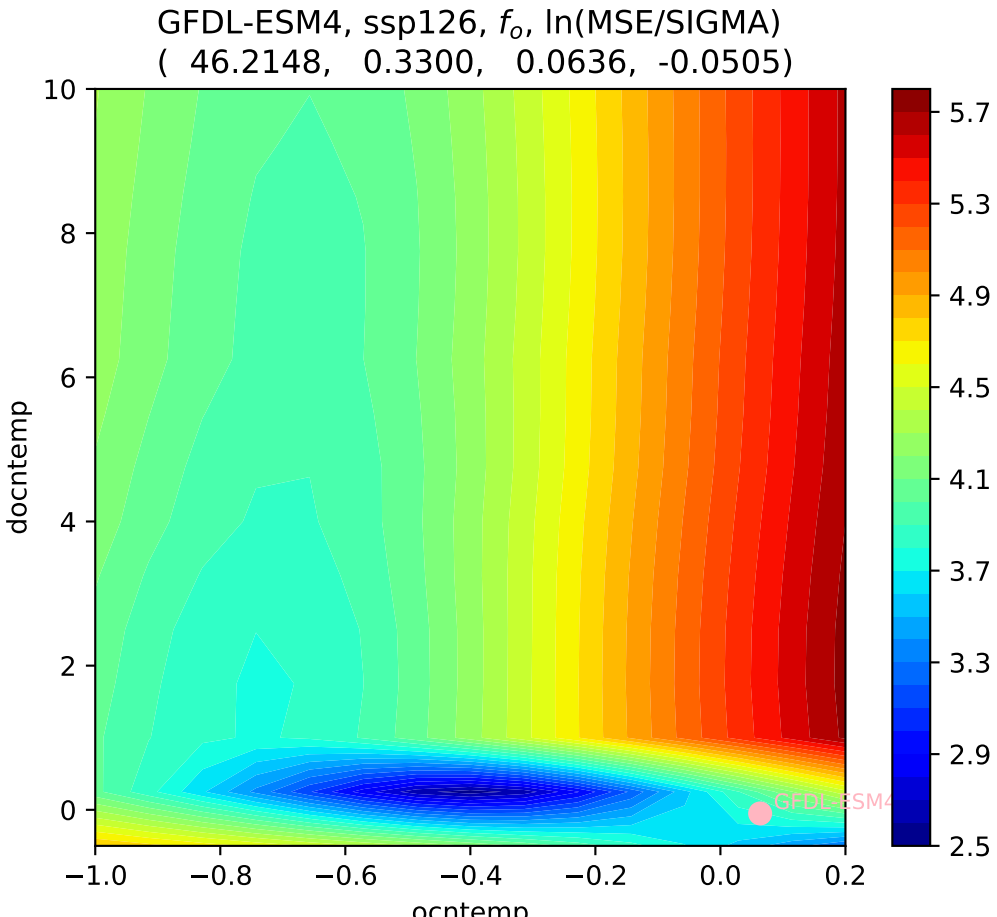

GFDL-ESM4, ssp126, npp, ln(MSE/SIGMA)
347, 0.4487, 494.1298, 0.1872, 0.0585, 0.0000, 0.9868, 0.9457, 0
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
GFDL-ESM4
20.28
20.16
20.04
19.92
19.80
19.68
19.56
19.44
19.32


GFDL-ESM4, ssp126, npp, ln(MSE/SIGMA)
347, 0.4487, 494.1298, 0.1872, 0.0585, 0.0000, 0.9868, 0.9457, 0
GFDL-ESM4
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
21.90
21.45
21.00
20.55
20.10
19.65
19.20
18.75
18.30
17.85


GFDL-ESM4, ssp126, npp, ln(MSE/SIGMA)
347, 0.4487, 494.1298, 0.1872, 0.0585, 0.0000, 0.9868, 0.9457, 0
1e−124 1.971455e+01
GFDL-ESM4
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
8.605
8.153
7.702
7.255
6.803
6.352
5.905
5.453
5.002


GFDL-ESM4, ssp126, f_o
ESM
Fit
f_o
Year
GFDL-ESM4, ssp126, f_o
ESM-Fit
f_o, ESM - FIT
Year
GFDL-ESM4, ssp126, f_o
ESM
Fit
f_o
ΔT
GFDL-ESM4, ssp126, f_o
ESM-Fit
f_o, ESM - FIT
ΔT
GFDL-ESM4, ssp126, f_o
ESM
Fit
f_o
c_atm
GFDL-ESM4, ssp126, f_o
ESM-Fit
f_o, ESM - FIT
c_atm


GFDL-ESM4, ssp126, f_o, ln(MSE/SIGMA)
(46.2148, 0.3300, 0.0636, -0.0505)
GFDL-ESM4
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
4.65
4.20
3.75
3.30
2.85
2.40
1.95
1.50
1.05
0.60


GFDL-ESM4, ssp126, f_o, ln(MSE/SIGMA)
(46.2148, 0.3300, 0.0636, -0.0505)
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
5.7
5.3
4.9
4.5
4.1
3.7
3.3
2.9
2.5
GFDL-ESM4