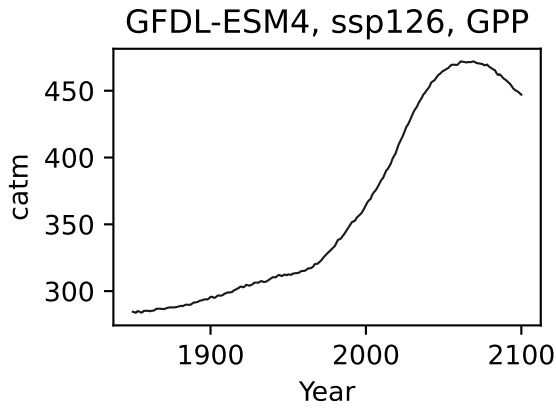
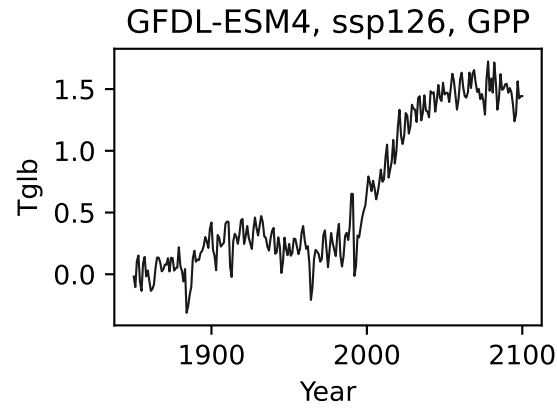
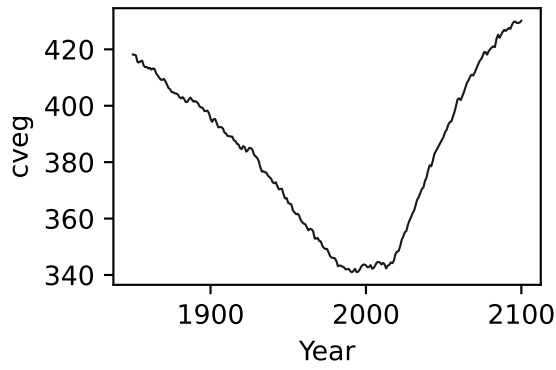
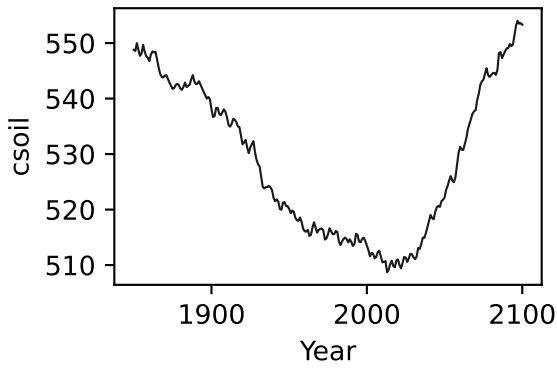
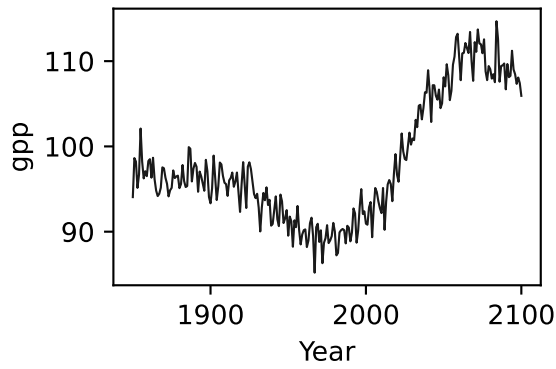
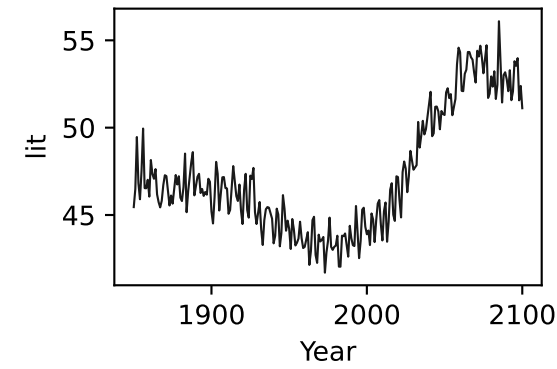

GFDL-ESM4, ssp126, GPP
catm
450
400
350
300
1900
2000
2100
Year

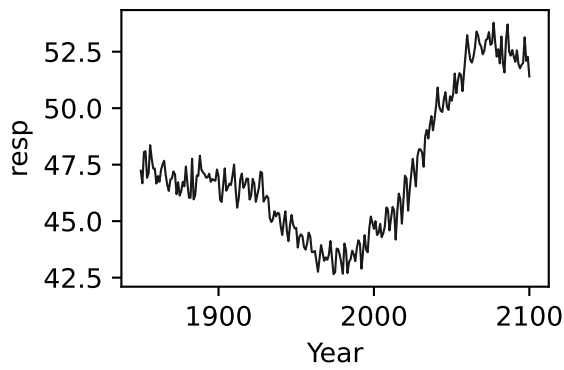

GFDL-ESM4, ssp126, GPP
Tglb
1.5
1.0
0.5
0.0
1900
2000
2100
Year

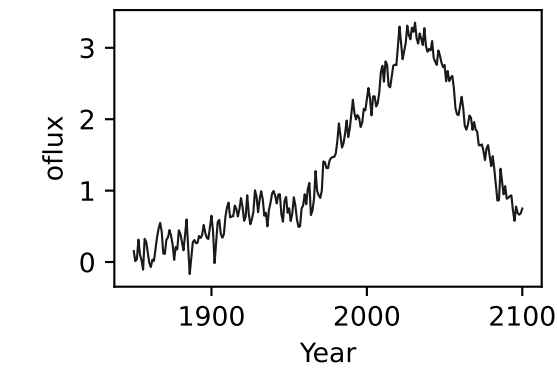

cveg
420
400
380
360
340
1900
2000
2100
Year

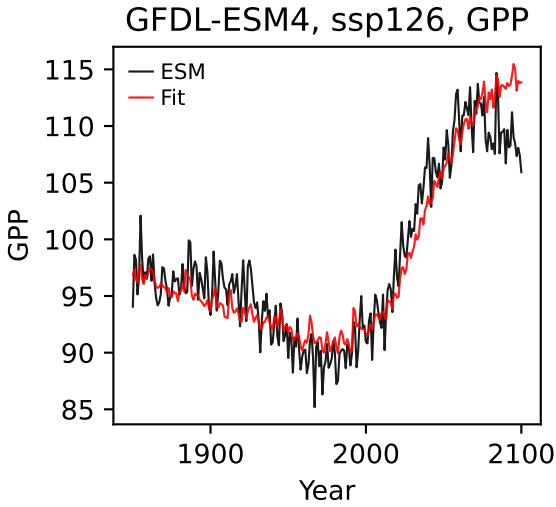

csoil
550
540
530
520
510
1900
2000
2100
Year

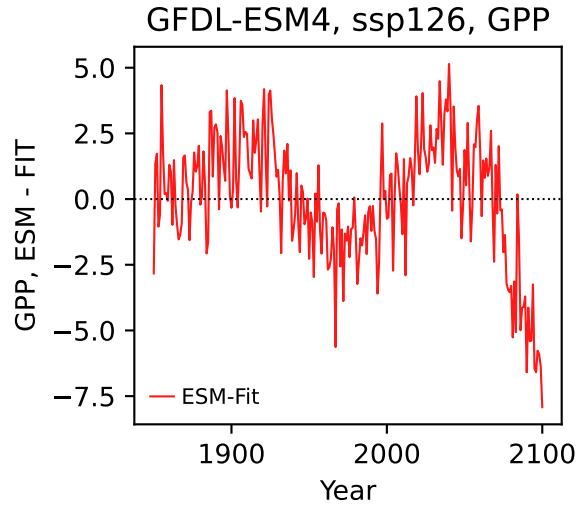

gpp
110
100
90
1900
2000
2100
Year

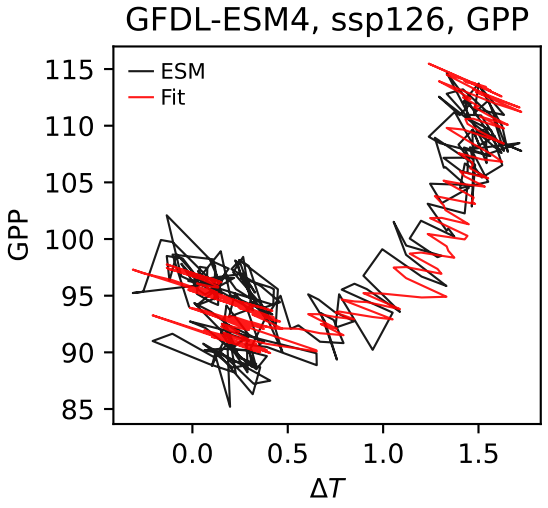

lit
55
50
45
1900
2000
2100
Year

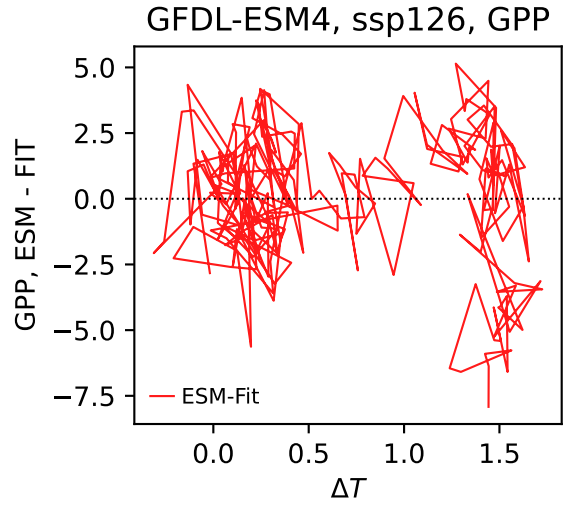

resp
52.5
50.0
47.5
45.0
42.5
1900
2000
2100
Year

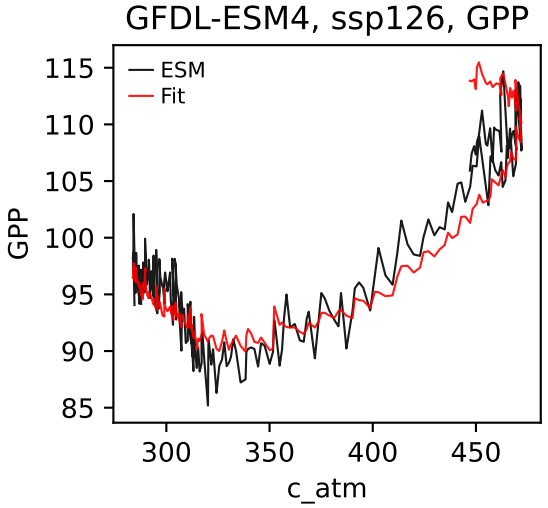

oflux
3
2
1
0
1900
2000
2100
Year

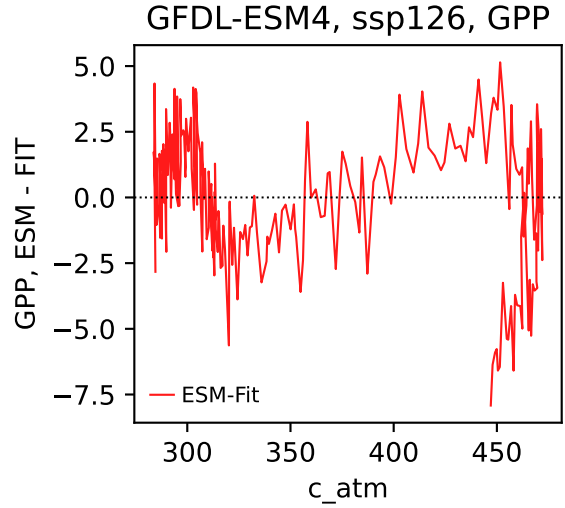

GFDL-ESM4, ssp126, GPP
ESM
Fit
GPP
Year

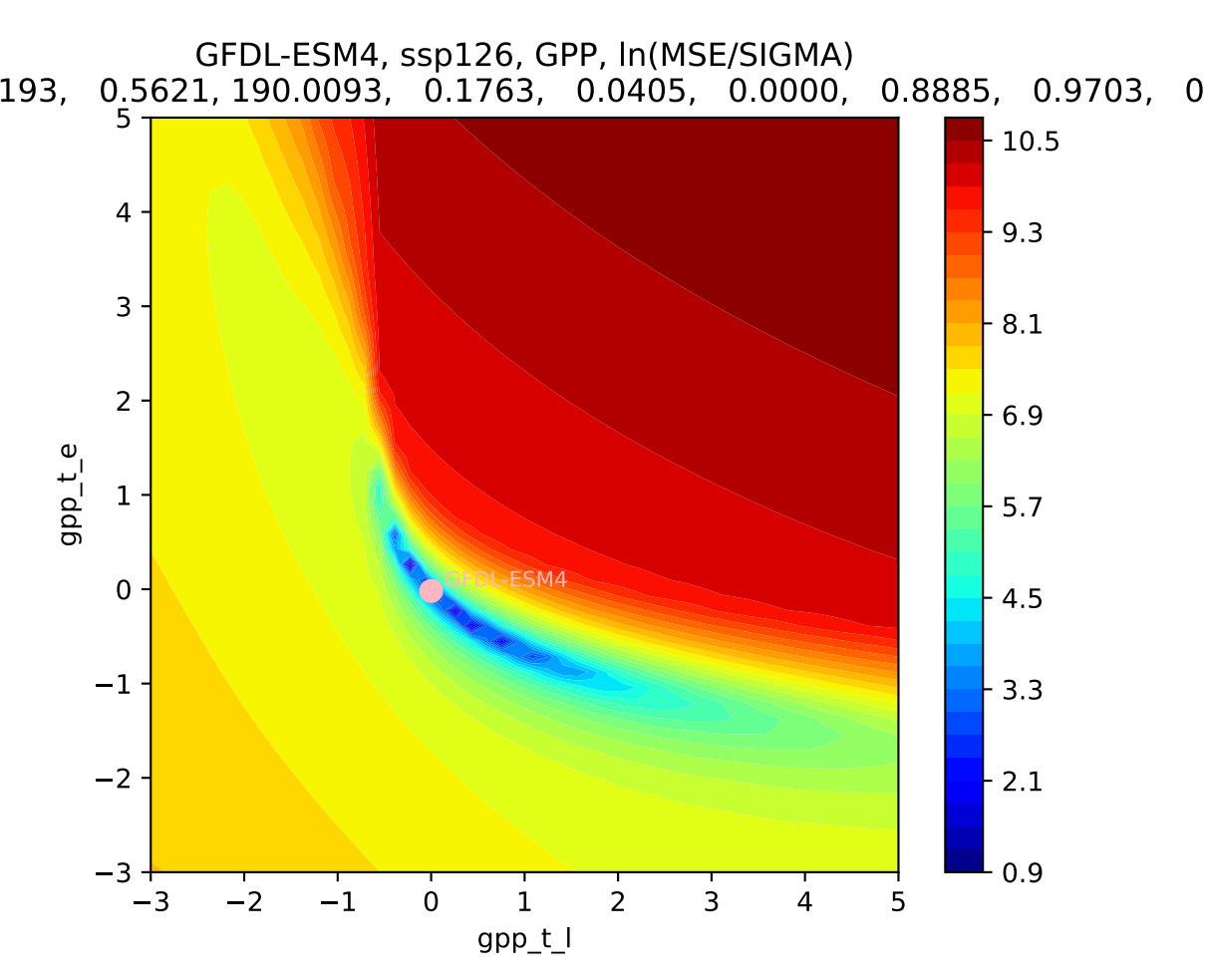

GFDL-ESM4, ssp126, GPP
GPP, ESM - FIT
ESM-Fit
Year

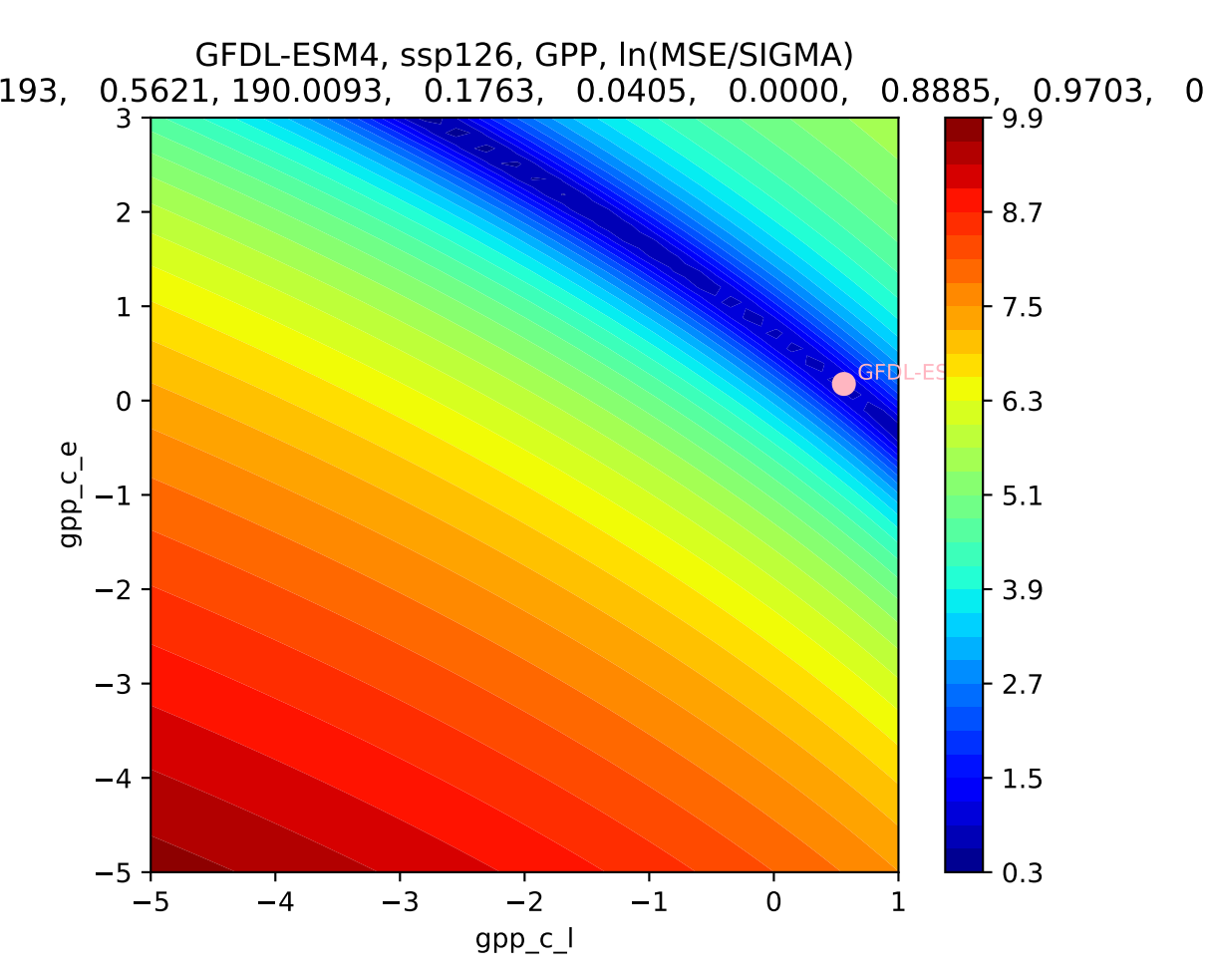

GFDL-ESM4, ssp126, GPP
ESM
Fit
GPP
ΔT

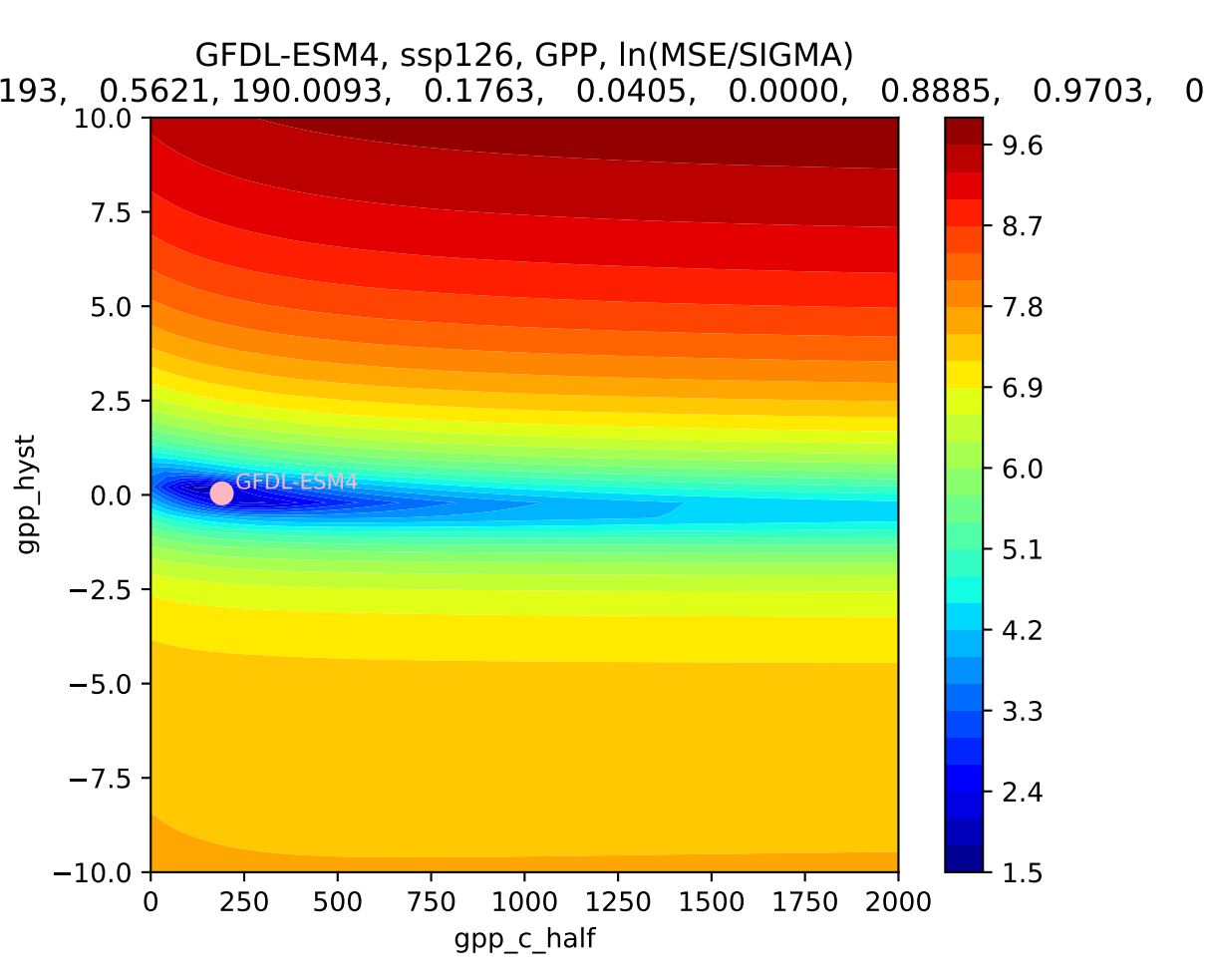

GFDL-ESM4, ssp126, GPP
GPP, ESM - FIT
ESM-Fit
ΔT

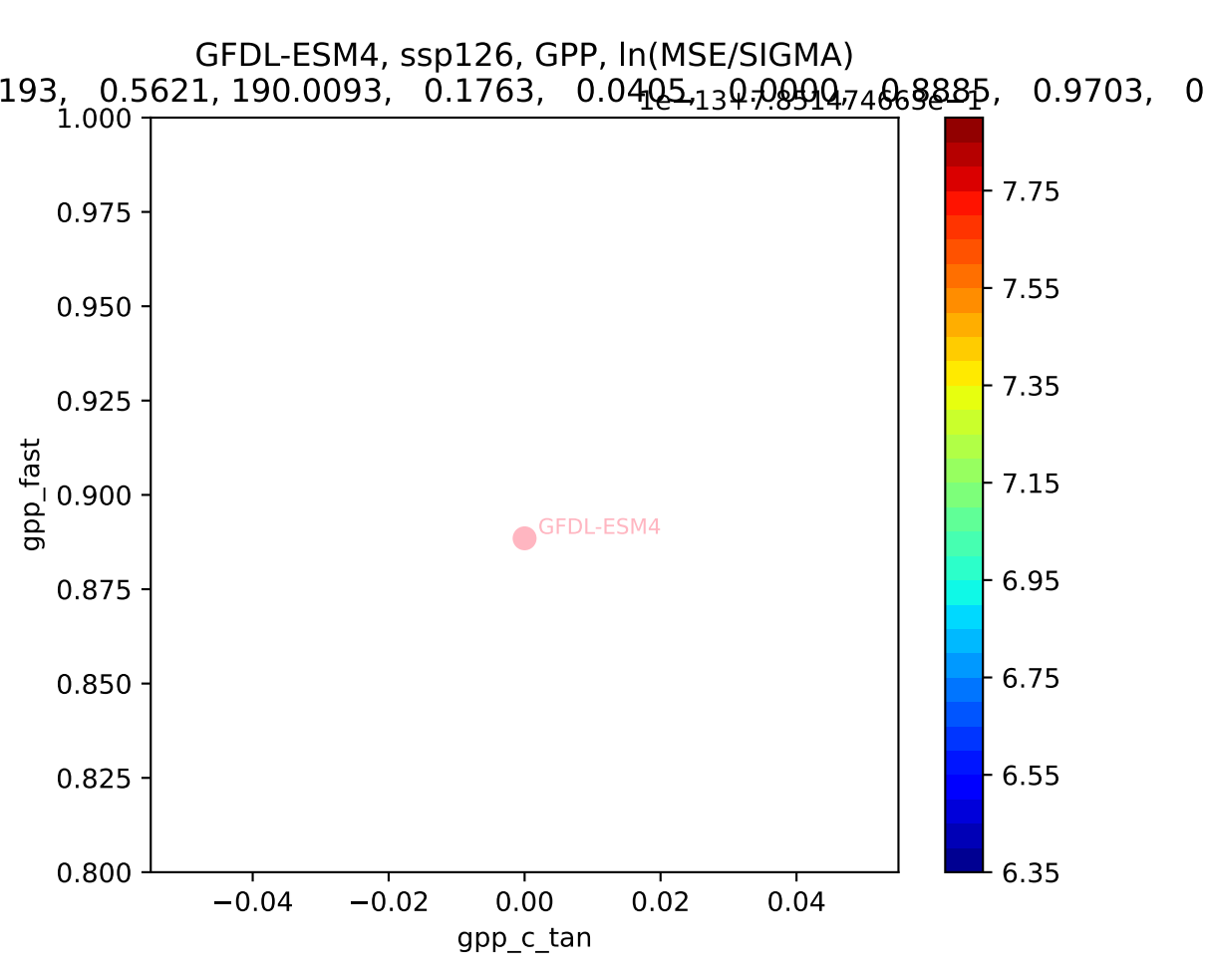

GFDL-ESM4, ssp126, GPP
ESM
Fit
GPP
c_atm

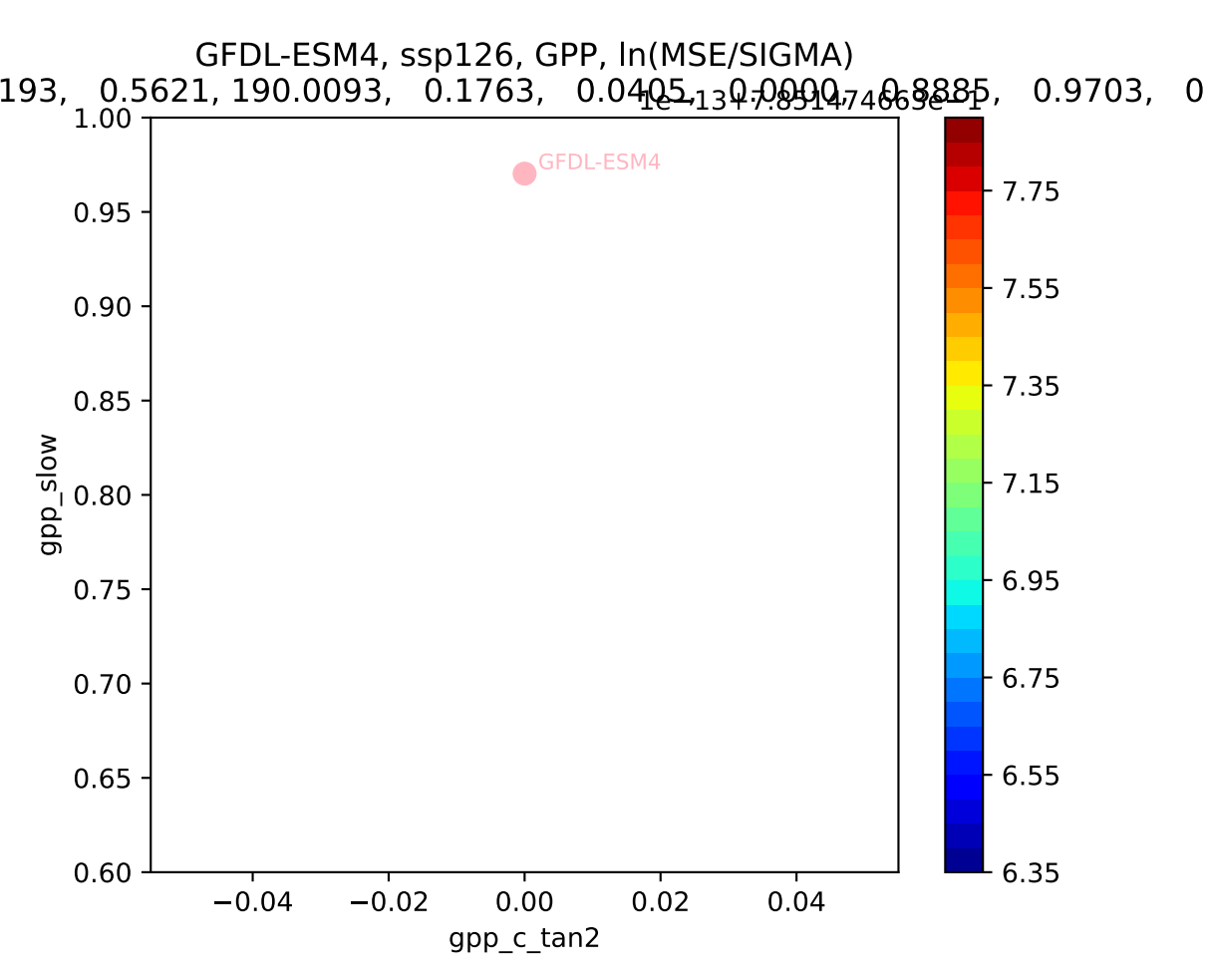

GFDL-ESM4, ssp126, GPP
GPP, ESM - FIT
ESM-Fit
c_atm

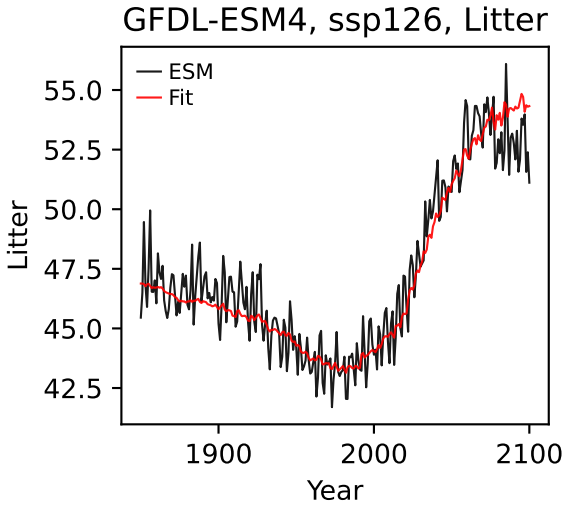

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0093, 0.1763, 0.0405, 0.0000, 0.8885, 0.9703, 0
GFDL-ESM4
gpp_t_e
gpp_t_l
10.5
9.3
8.1
6.9
5.7
4.5
3.3
2.1
0.9

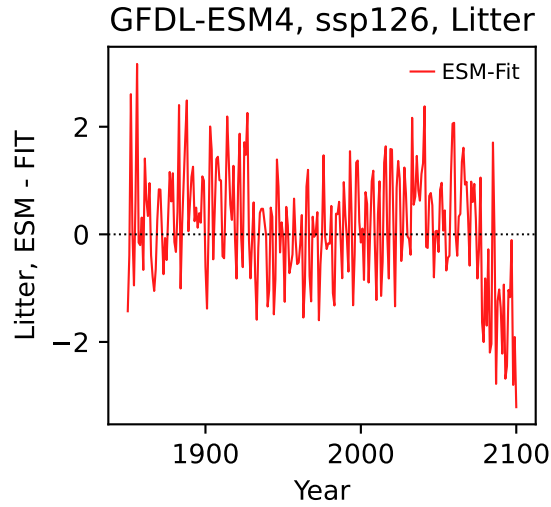

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0093, 0.1763, 0.0405, 0.0000, 0.8885, 0.9703, 0
gpp_c_e
gpp_c_l
3
2
1
0
−1
−2
−3
−4
−5
−5
−4
−3
−2
−1
0
1
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

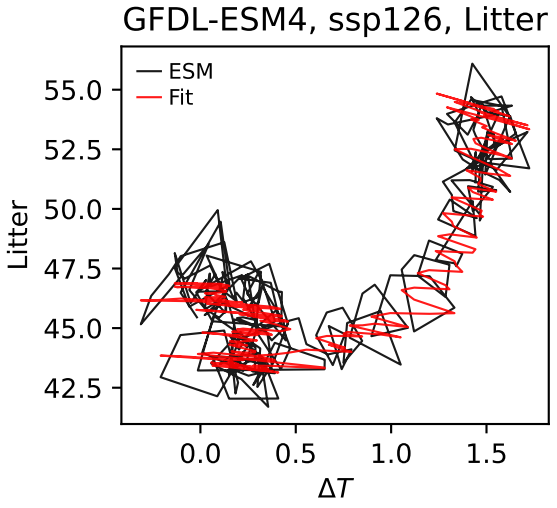

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0093, 0.1763, 0.0405, 0.0000, 0.8885, 0.9703, 0
GFDL-ESM4
gpp_hyst
gpp_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5

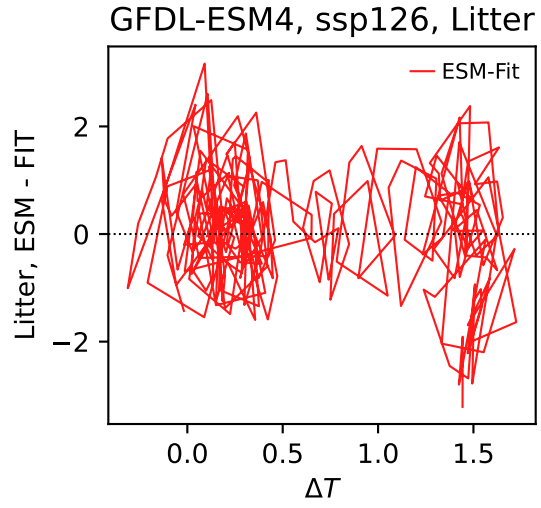

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0093, 0.1763, 0.0405, 0.0000, 0.8885, 0.9703, 0
1e−1317.8514746693e−1
GFDL-ESM4
gpp_fast
gpp_c_tan
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
−0.04
−0.02
0.00
0.02
0.04
7.75
7.55
7.35
7.15
6.95
6.75
6.55
6.35

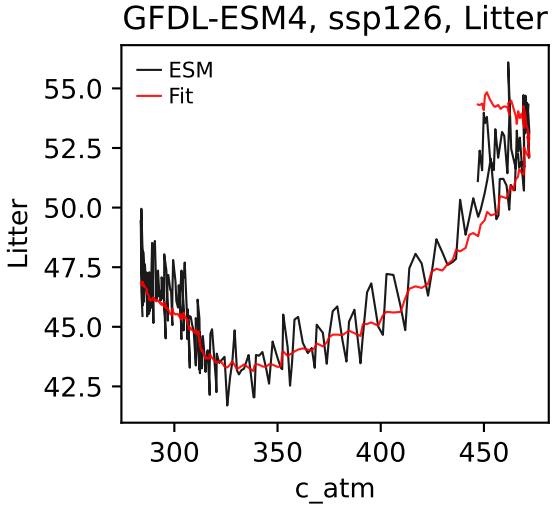

GFDL-ESM4, ssp126, GPP, ln(MSE/SIGMA)
193, 0.5621, 190.0093, 0.1763, 0.0405, 0.0000, 0.8885, 0.9703, 0
1e−1317.8514746693e−1
GFDL-ESM4
gpp_slow
gpp_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
7.75
7.55
7.35
7.15
6.95
6.75
6.55
6.35

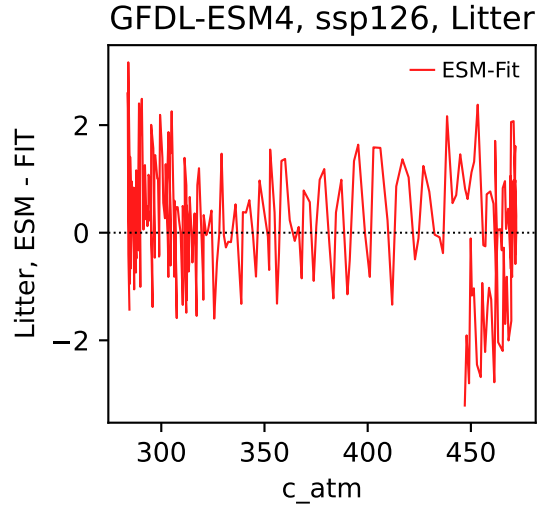

GFDL-ESM4, ssp126, Litter
ESM
Fit
Litter
Year

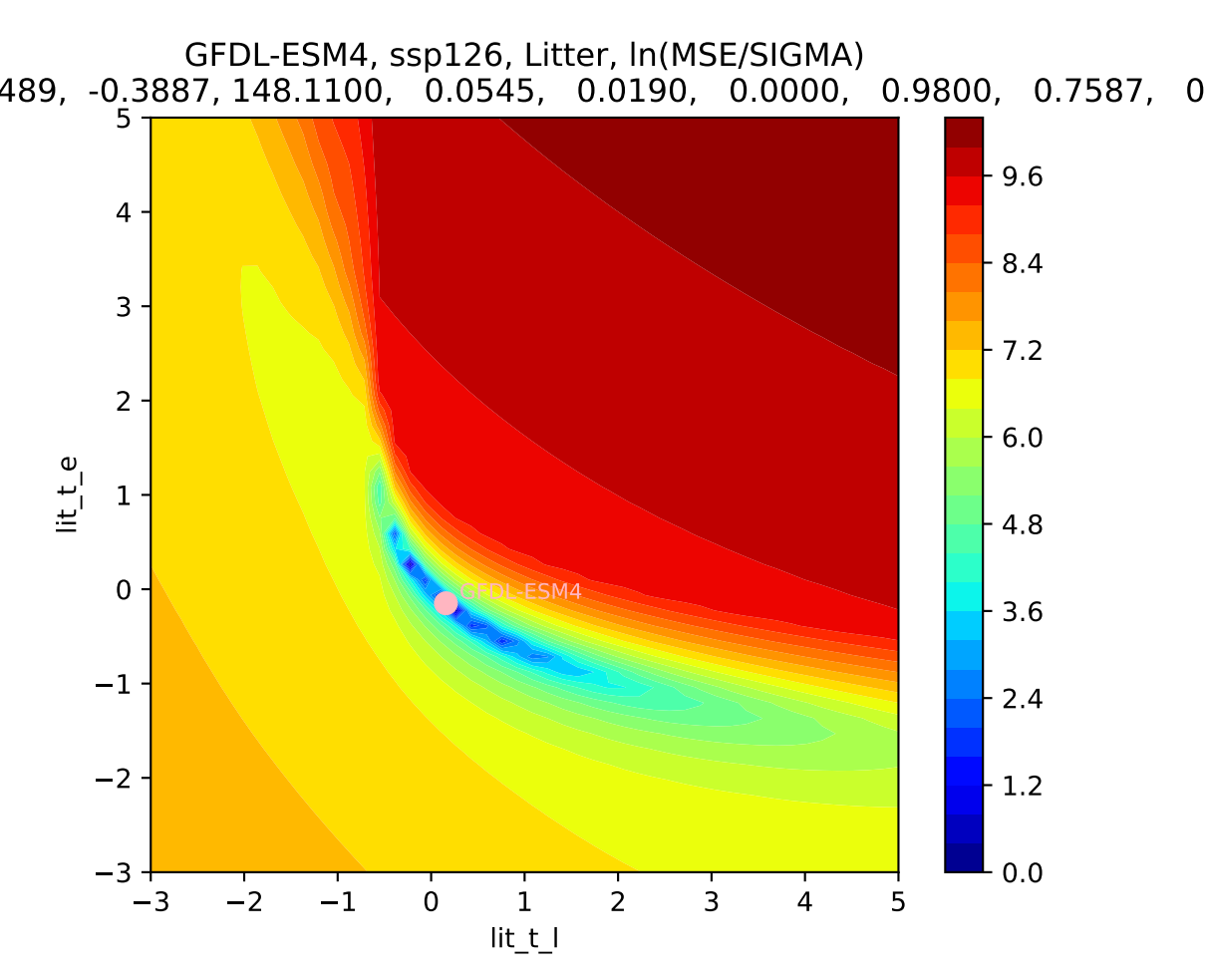

GFDL-ESM4, ssp126, Litter
ESM-Fit
Litter, ESM - FIT
Year

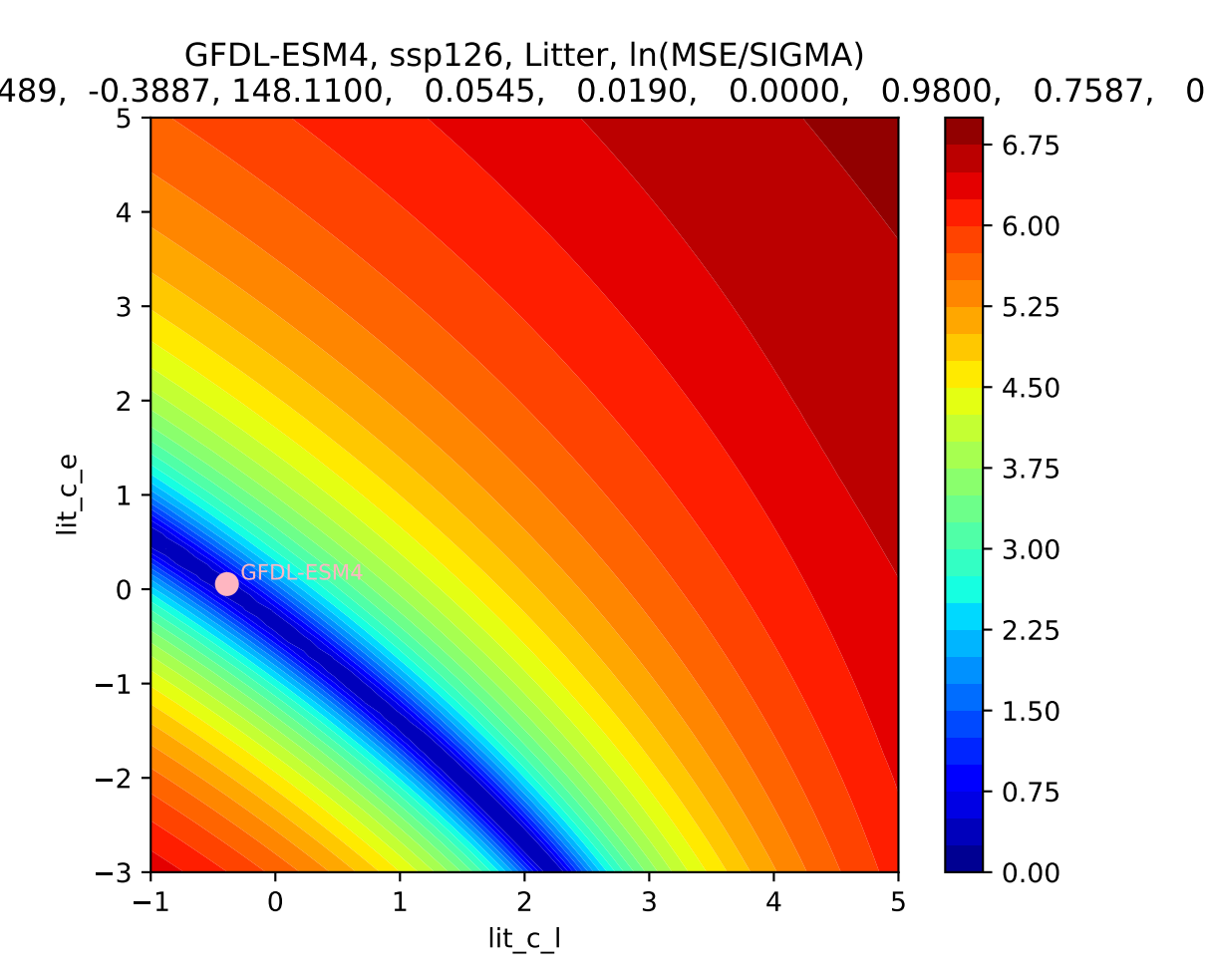

GFDL-ESM4, ssp126, Litter
ESM
Fit
Litter
ΔT

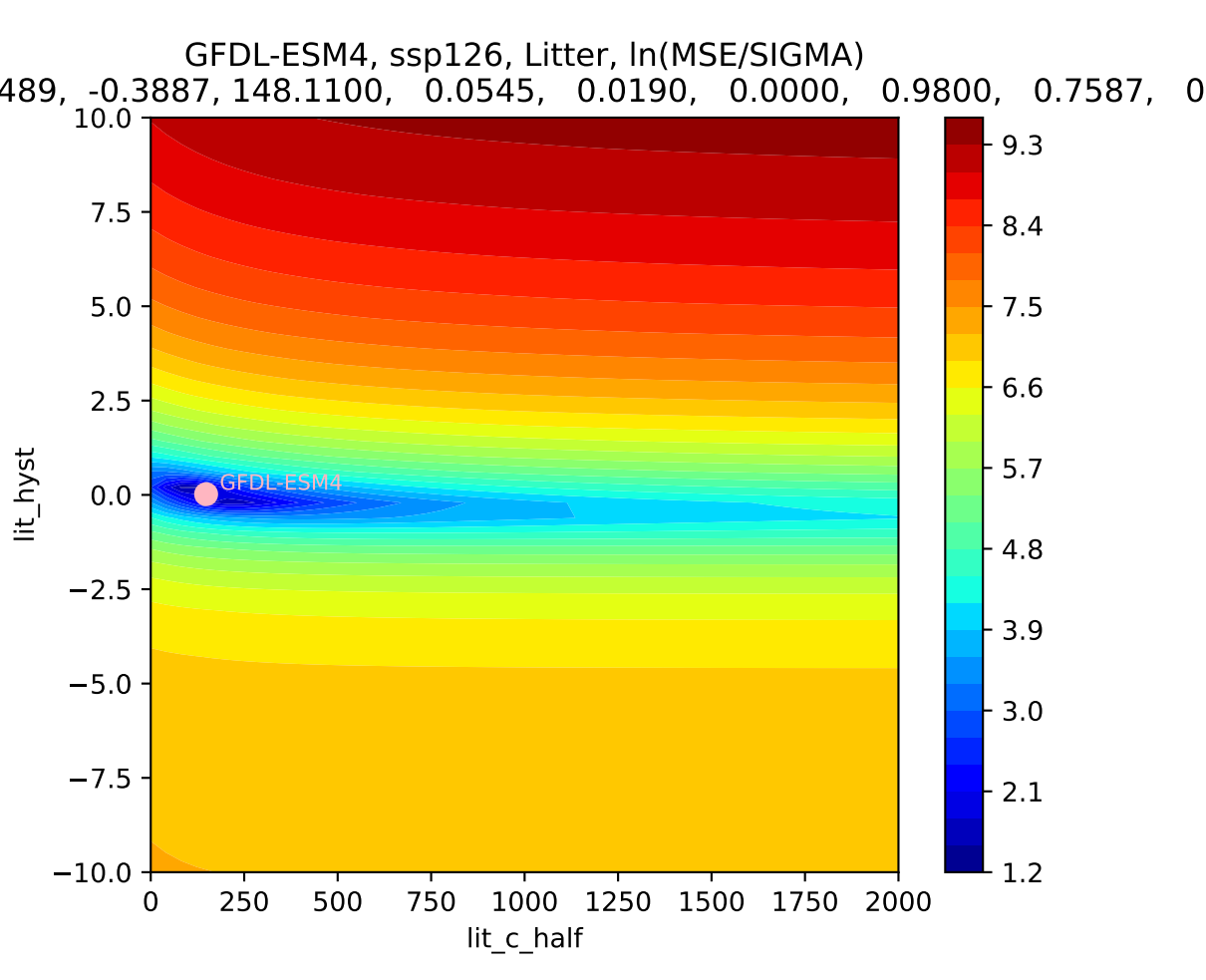

GFDL-ESM4, ssp126, Litter
ESM-Fit
Litter, ESM - FIT
ΔT

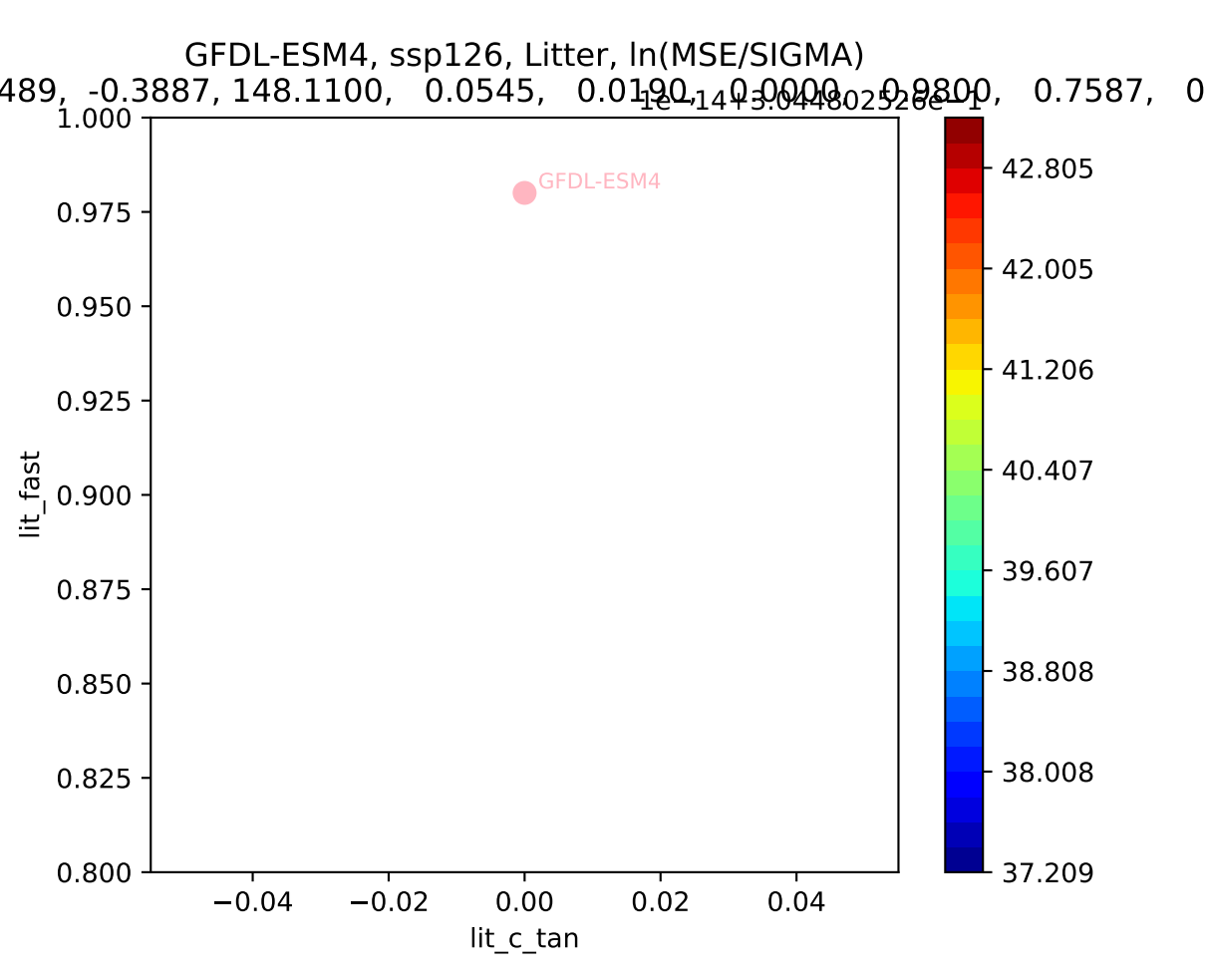

GFDL-ESM4, ssp126, Litter
ESM
Fit
Litter
c_atm

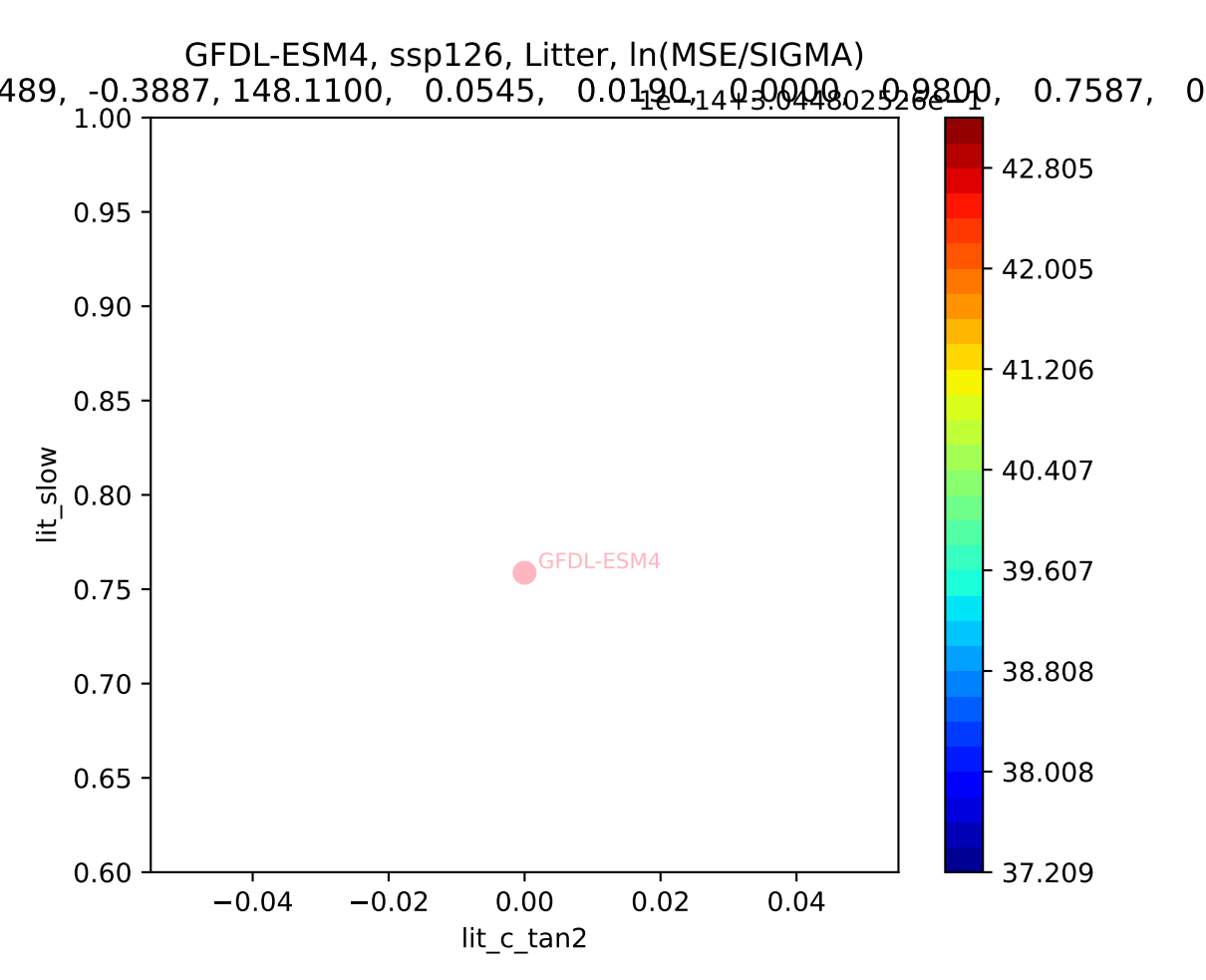

GFDL-ESM4, ssp126, Litter
ESM-Fit
Litter, ESM - FIT
c_atm

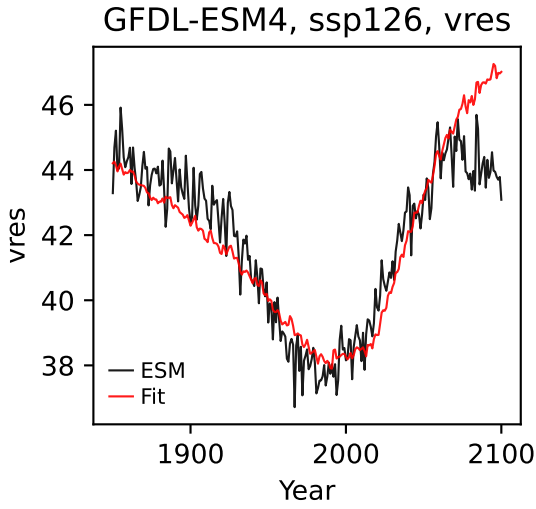

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1100, 0.0545, 0.0190, 0.0000, 0.9800, 0.7587, 0
GFDL-ESM4
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

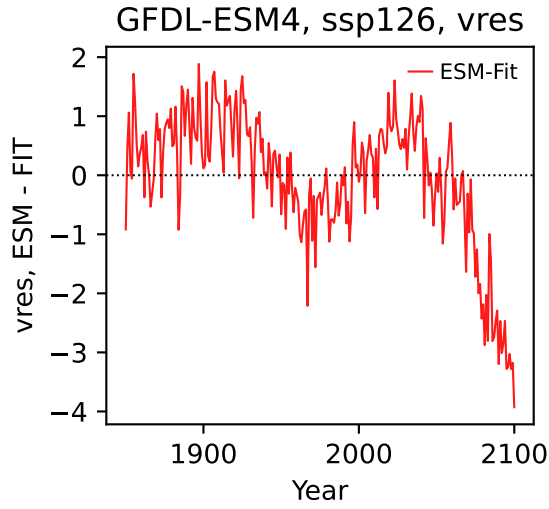

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1100, 0.0545, 0.0190, 0.0000, 0.9800, 0.7587, 0
GFDL-ESM4
lit_c_e
lit_c_l
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
6.75
6.00
5.25
4.50
3.75
3.00
2.25
1.50
0.75
0.00

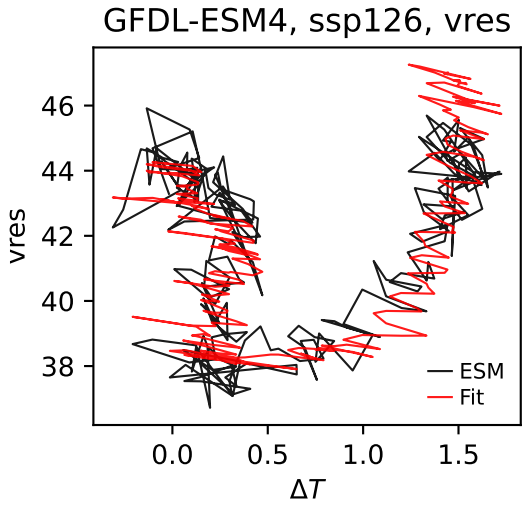

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1100, 0.0545, 0.0190, 0.0000, 0.9800, 0.7587, 0
GFDL-ESM4
lit_hyst
lit_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2

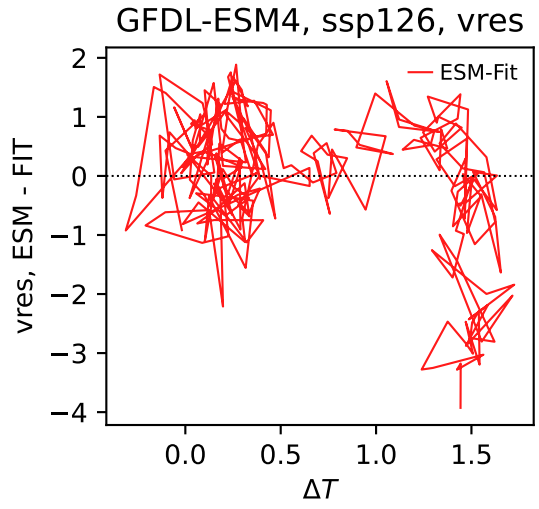

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1100, 0.0545, 0.0190, 0.0000, 0.9800, 0.7587, 0
1e−14+3.044802526e−1
GFDL-ESM4
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
lit_fast
−0.04
−0.02
0.00
0.02
0.04
lit_c_tan
42.805
42.005
41.206
40.407
39.607
38.808
38.008
37.209

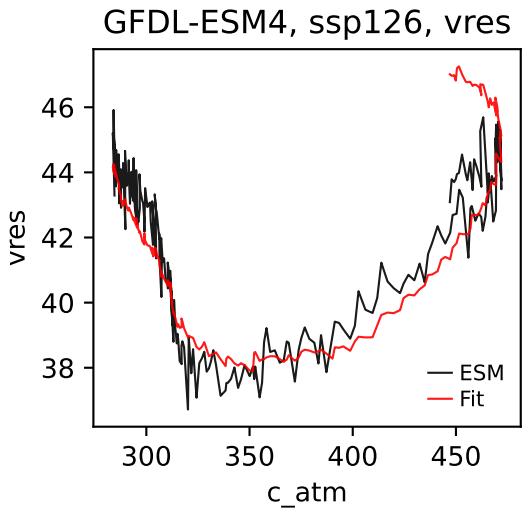

GFDL-ESM4, ssp126, Litter, ln(MSE/SIGMA)
489, -0.3887, 148.1100, 0.0545, 0.0190, 0.0000, 0.9800, 0.7587, 0
1e−14+3.044802526e−1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
lit_slow
GFDL-ESM4
−0.04
−0.02
0.00
0.02
0.04
lit_c_tan2
42.805
42.005
41.206
40.407
39.607
38.808
38.008
37.209

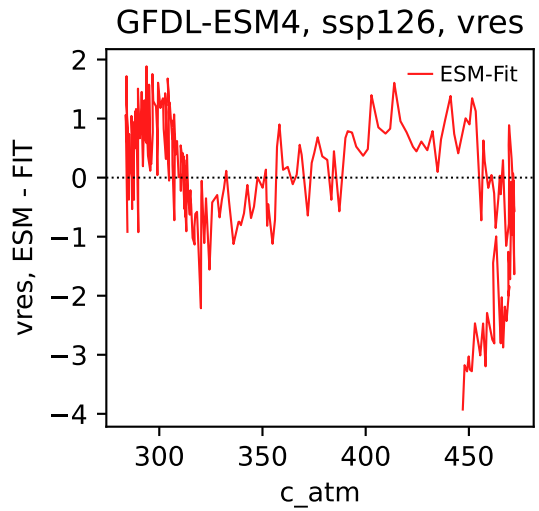

GFDL-ESM4, ssp126, vres
vres
Year
ESM
Fit

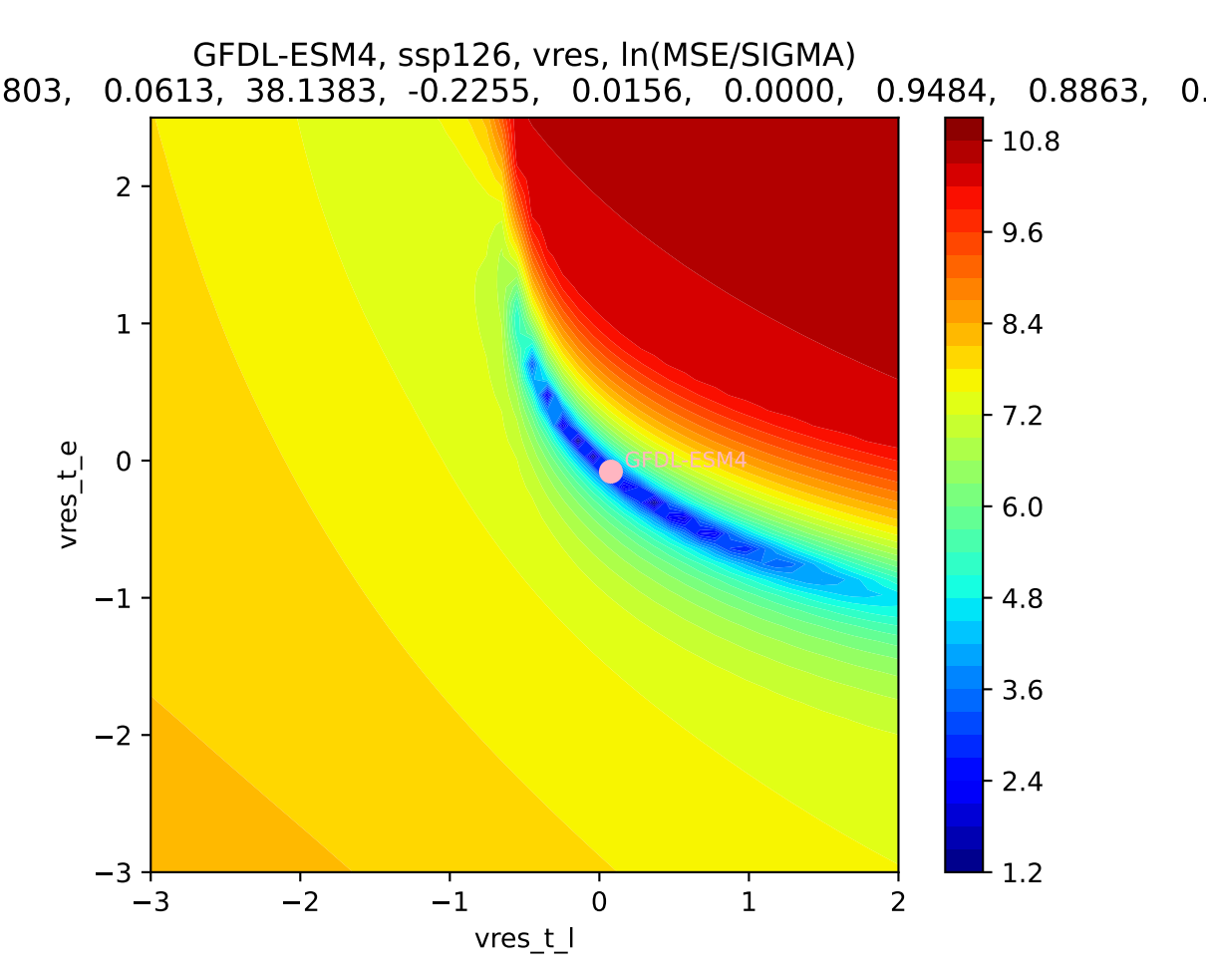

GFDL-ESM4, ssp126, vres
vres, ESM - FIT
Year
ESM-Fit

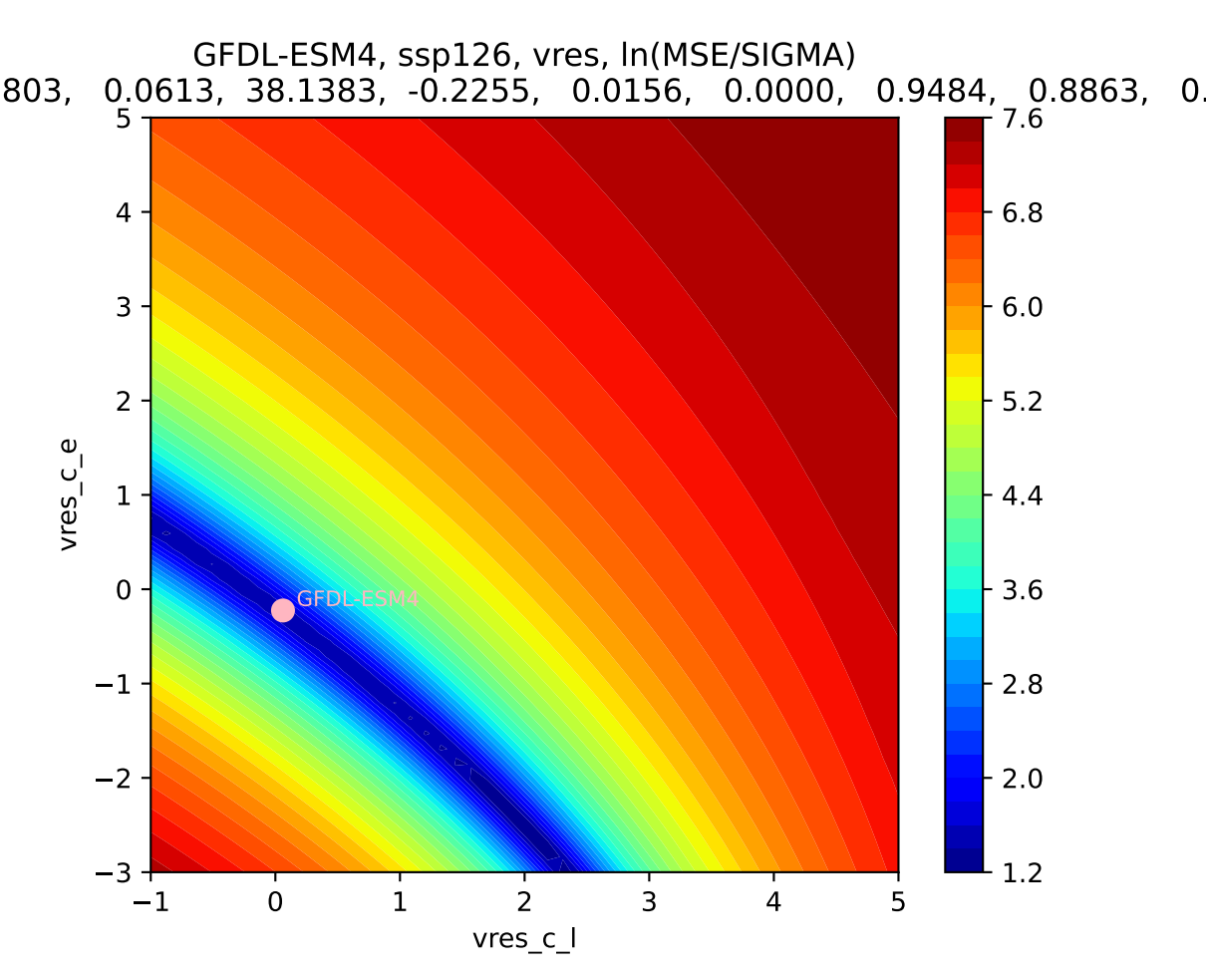

GFDL-ESM4, ssp126, vres
vres
ΔT
ESM
Fit

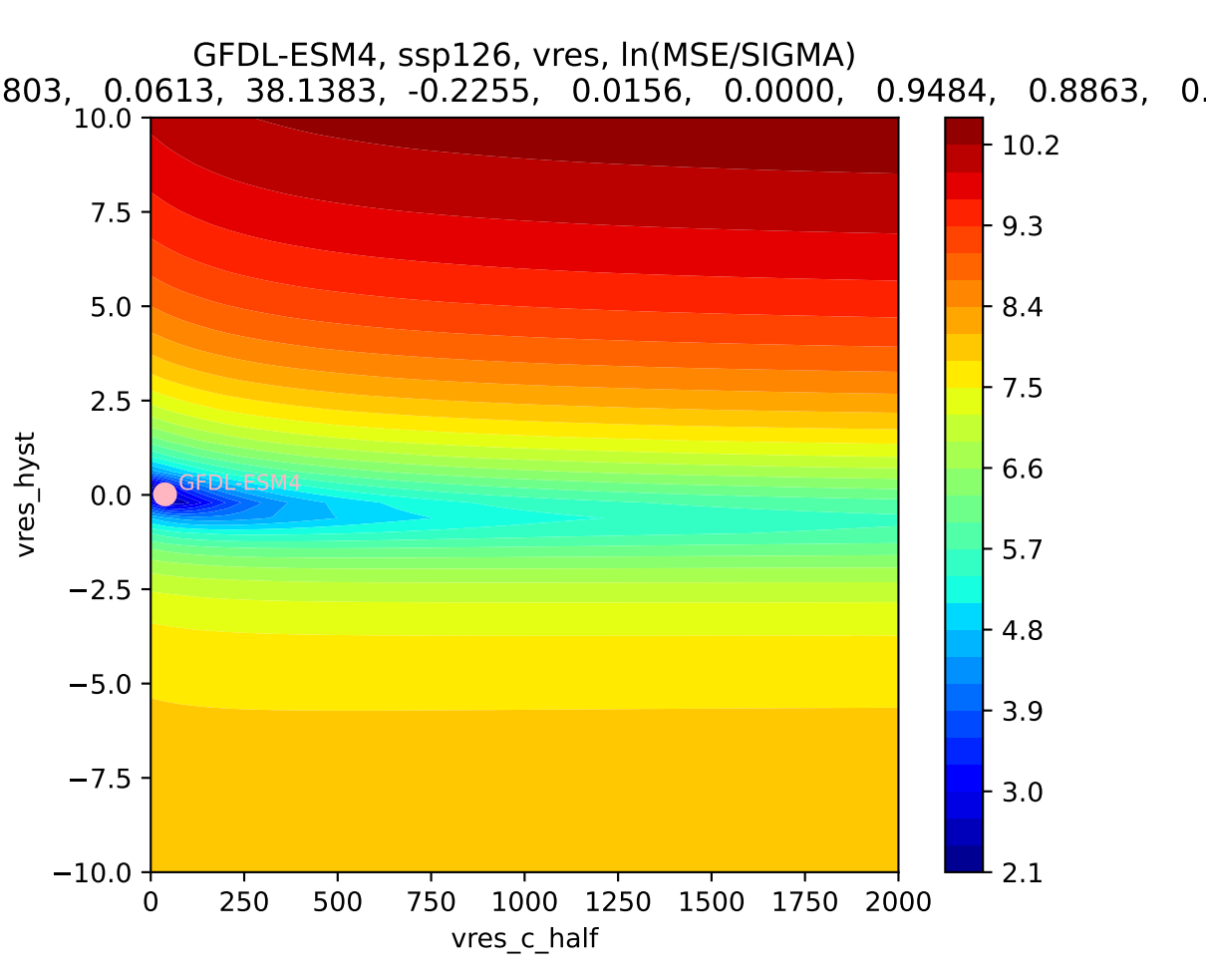

GFDL-ESM4, ssp126, vres
vres, ESM - FIT
ΔT
ESM-Fit

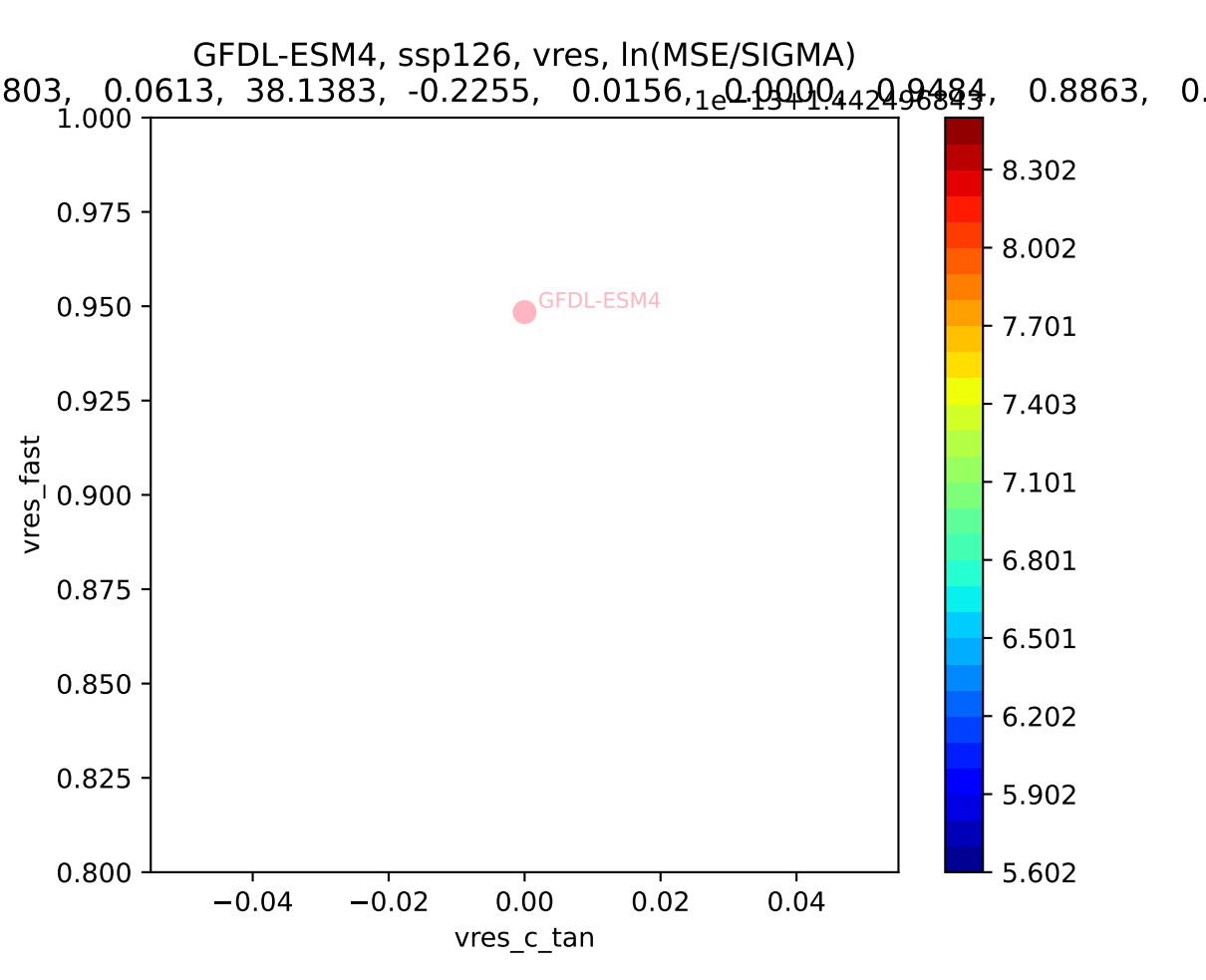

GFDL-ESM4, ssp126, vres
vres
c_atm
ESM
Fit

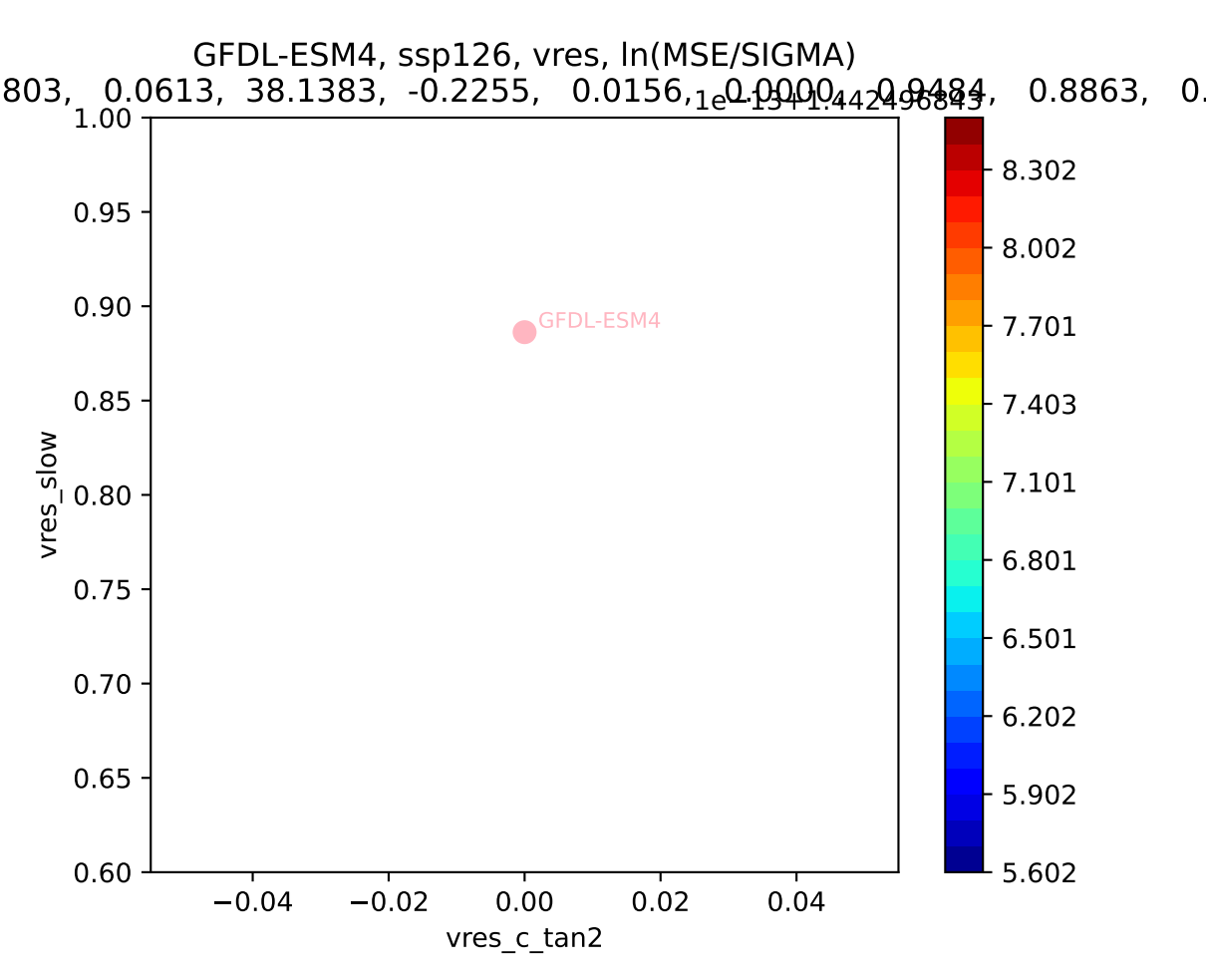

GFDL-ESM4, ssp126, vres
vres, ESM - FIT
c_atm
ESM-Fit

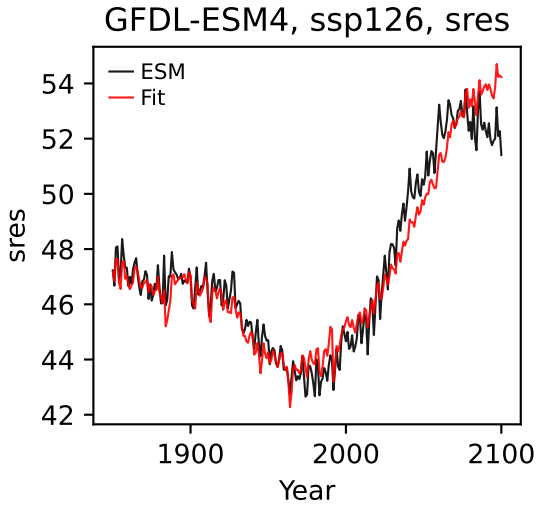

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1383, -0.2255, 0.0156, 0.0000, 0.9484, 0.8863, 0.
GFDL-ESM4
vres_t_e
vres_t_l
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

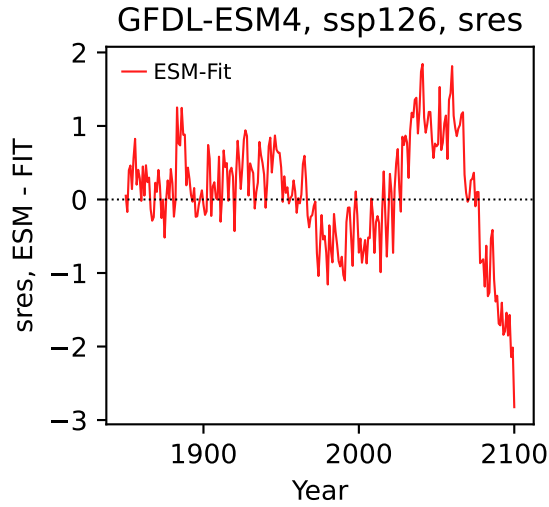

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1383, -0.2255, 0.0156, 0.0000, 0.9484, 0.8863, 0.
GFDL-ESM4
vres_c_e
vres_c_l
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
7.6
6.8
6.0
5.2
4.4
3.6
2.8
2.0
1.2

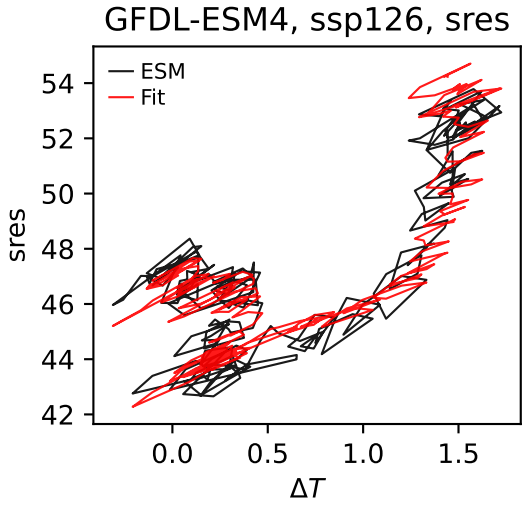

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1383, -0.2255, 0.0156, 0.0000, 0.9484, 0.8863, 0.
GFDL-ESM4
vres_hyst
vres_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
10.2
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1

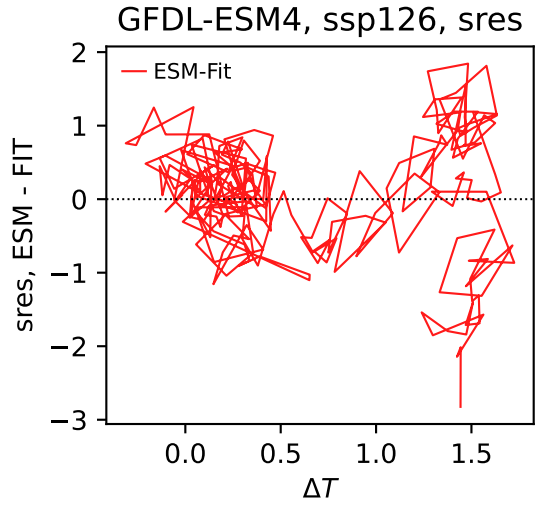

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1383, -0.2255, 0.0156, 0.0000, 0.9484, 0.8863, 0.
1e-13 1.442496843
GFDL-ESM4
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
vres_fast
−0.04
−0.02
0.00
0.02
0.04
vres_c_tan
8.302
8.002
7.701
7.403
7.101
6.801
6.501
6.202
5.902
5.602

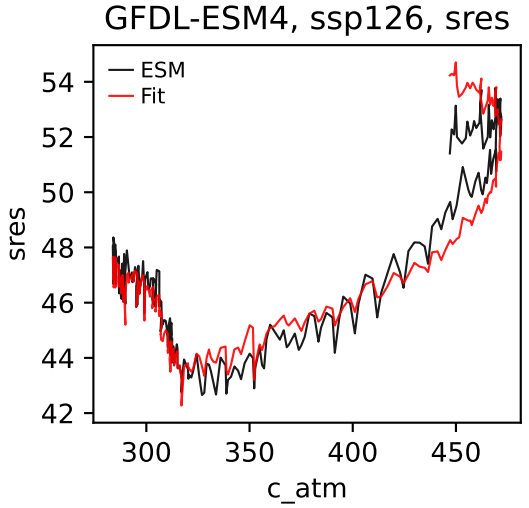

GFDL-ESM4, ssp126, vres, ln(MSE/SIGMA)
803, 0.0613, 38.1383, -0.2255, 0.0156, 0.0000, 0.9484, 0.8863, 0.
1e−13 1.442496843
GFDL-ESM4
vres_slow
vres_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
8.302
8.002
7.701
7.403
7.101
6.801
6.501
6.202
5.902
5.602

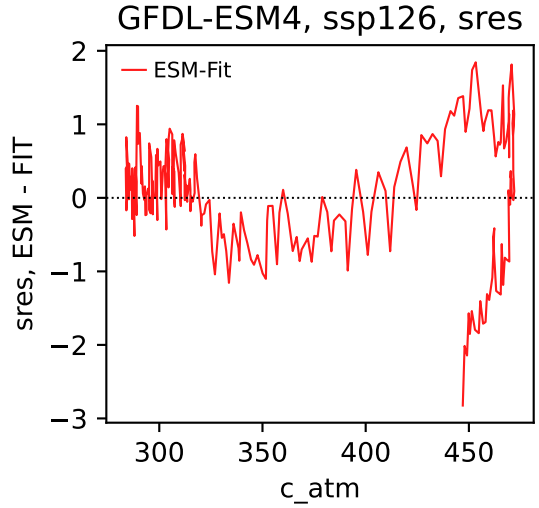

GFDL-ESM4, ssp126, sres
ESM
Fit
sres
Year

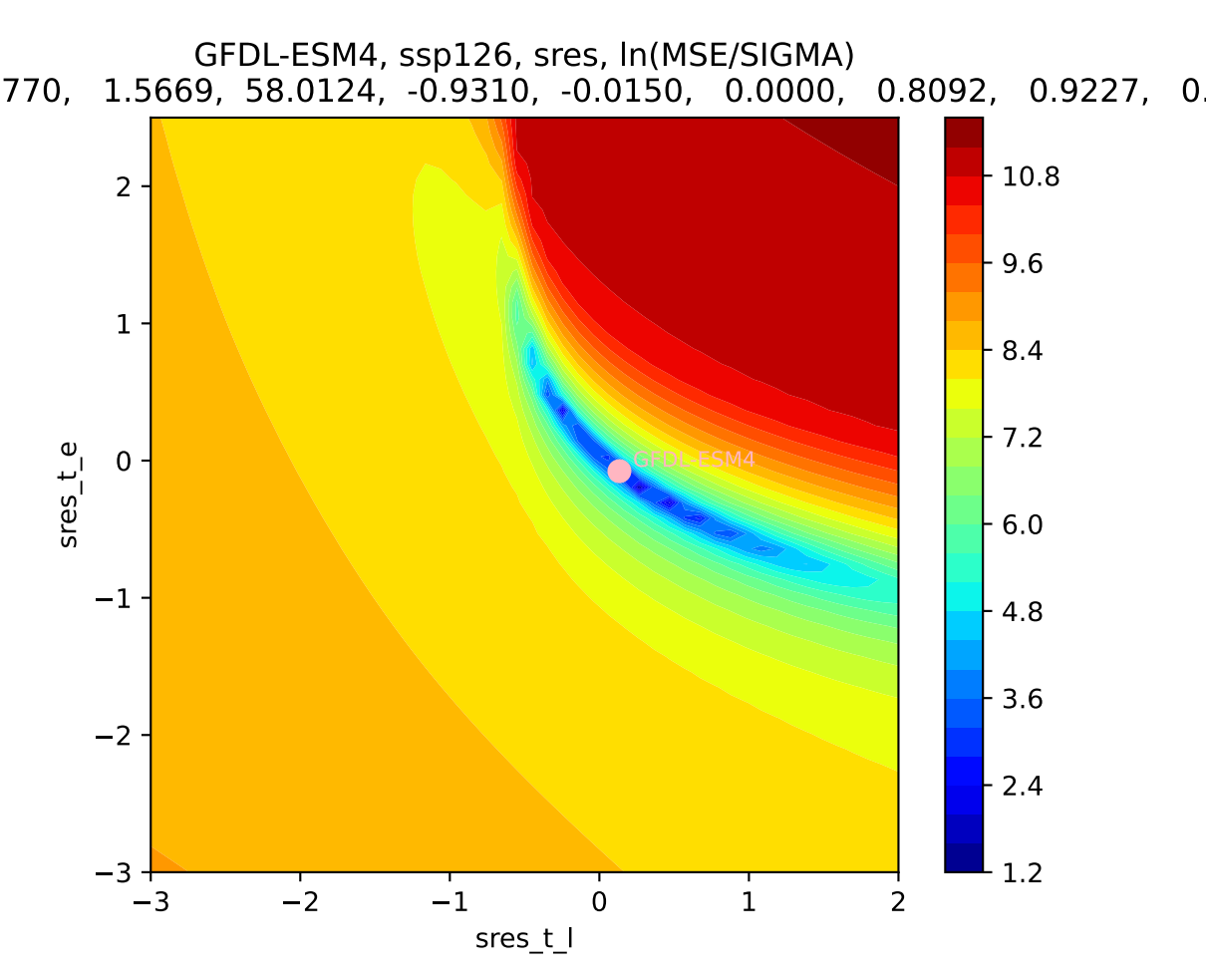

GFDL-ESM4, ssp126, sres
ESM-Fit
sres, ESM - FIT
Year

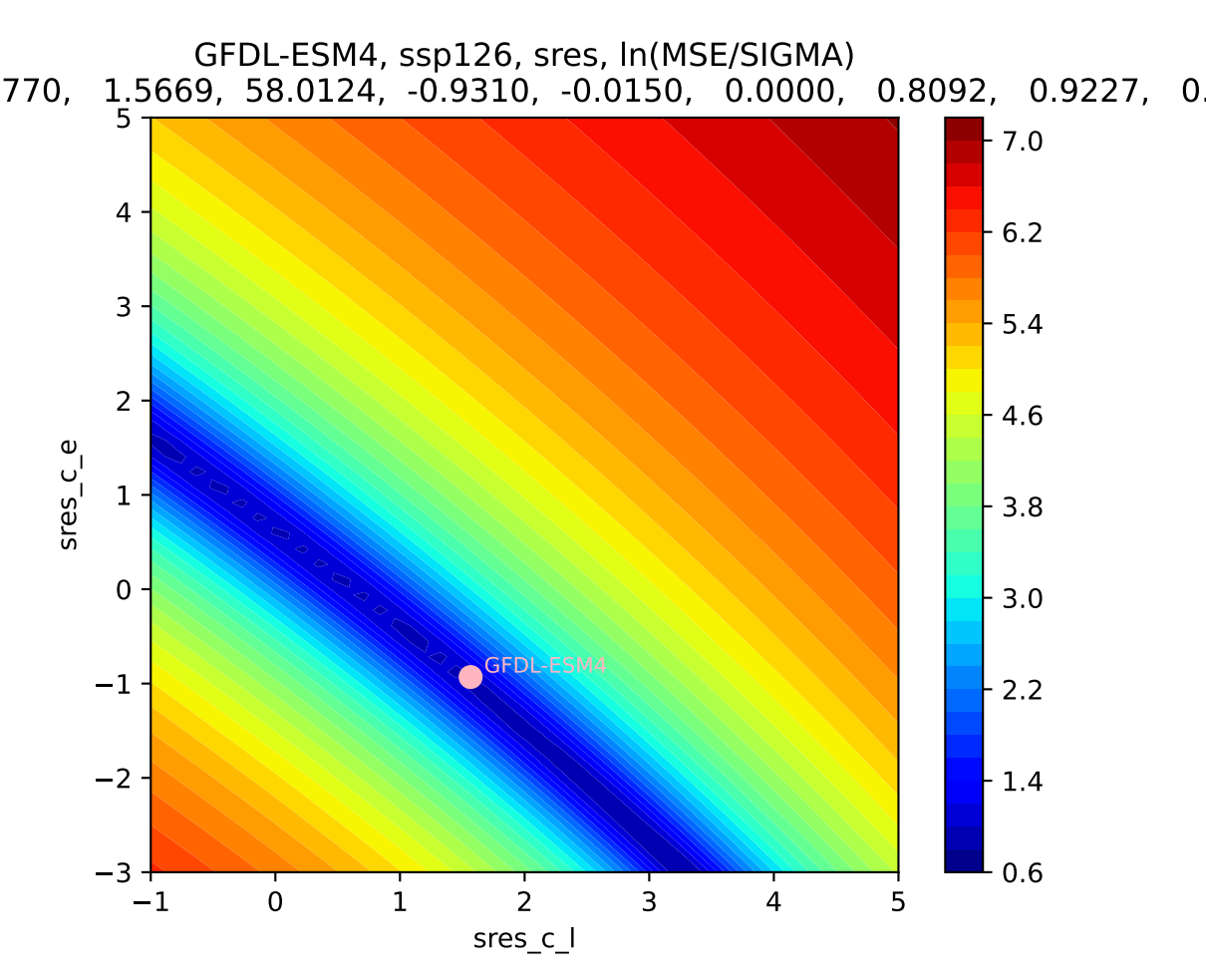

GFDL-ESM4, ssp126, sres
ESM
Fit
sres
ΔT

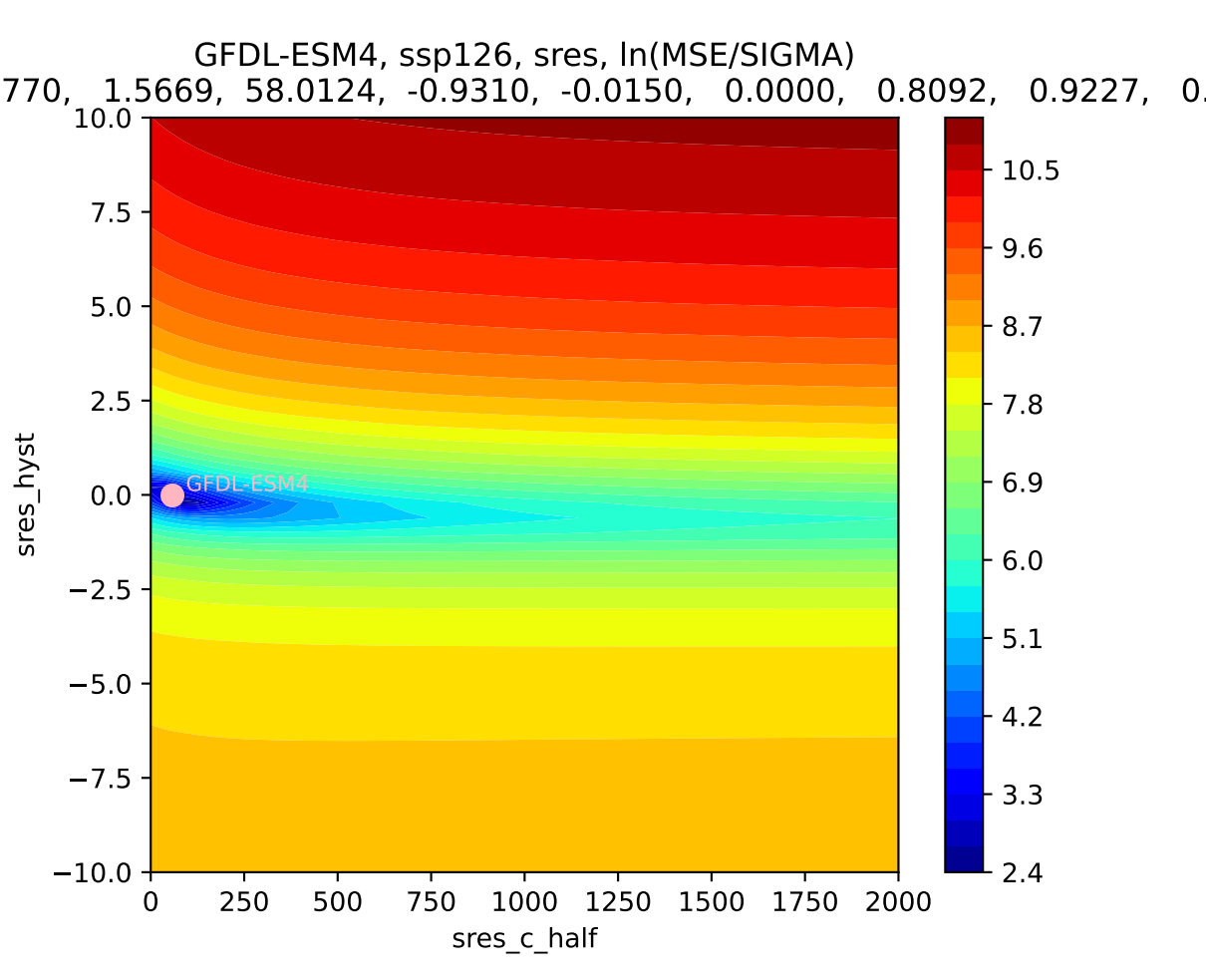

GFDL-ESM4, ssp126, sres
ESM-Fit
sres, ESM - FIT
ΔT

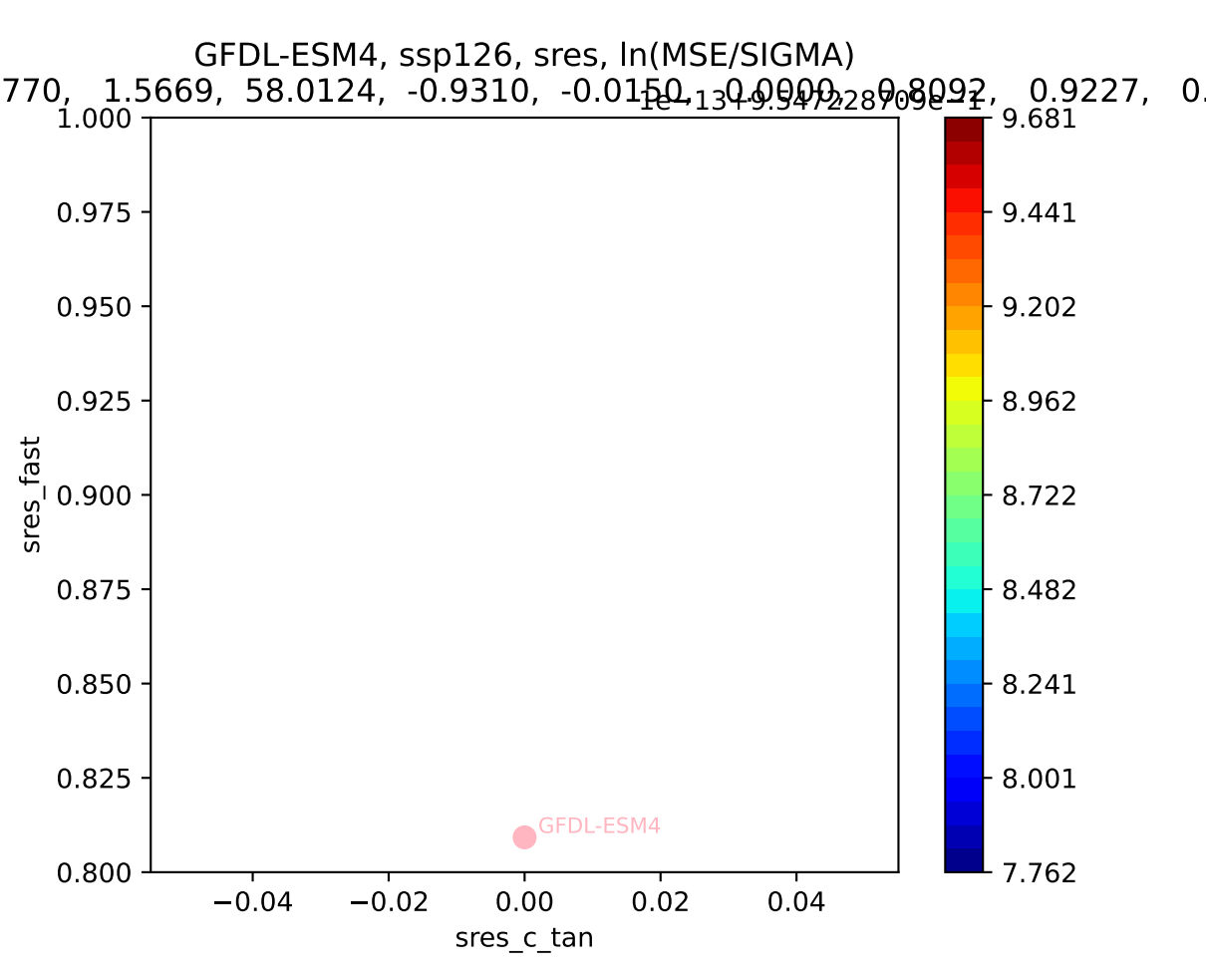

GFDL-ESM4, ssp126, sres
ESM
Fit
sres
c_atm

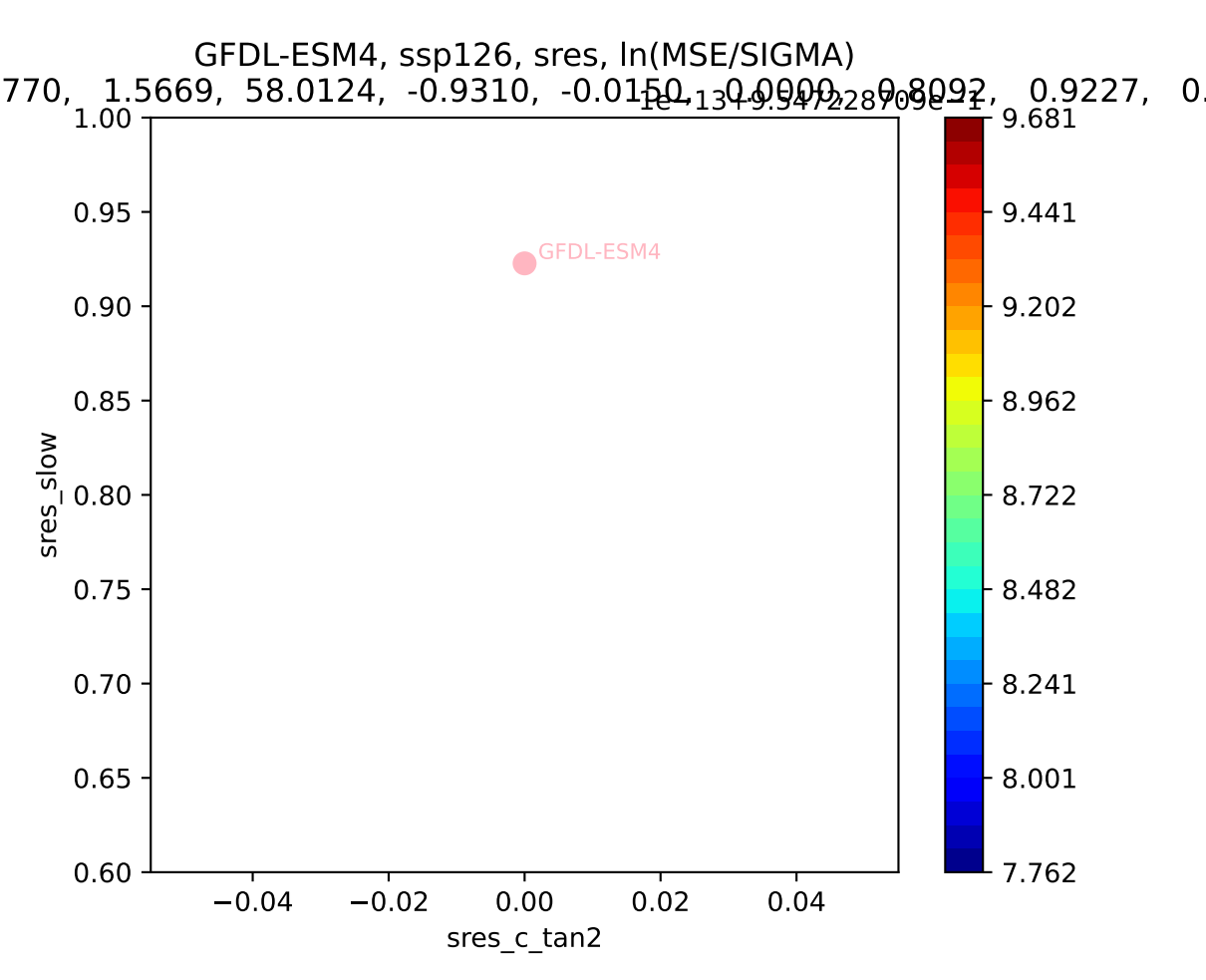

GFDL-ESM4, ssp126, sres
ESM-Fit
sres, ESM - FIT
c_atm

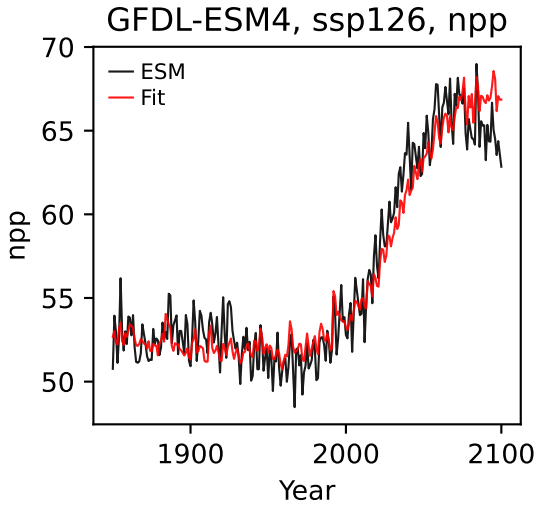

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5669, 58.0124, -0.9310, -0.0150, 0.0000, 0.8092, 0.9227, 0.
GFDL-ESM4
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

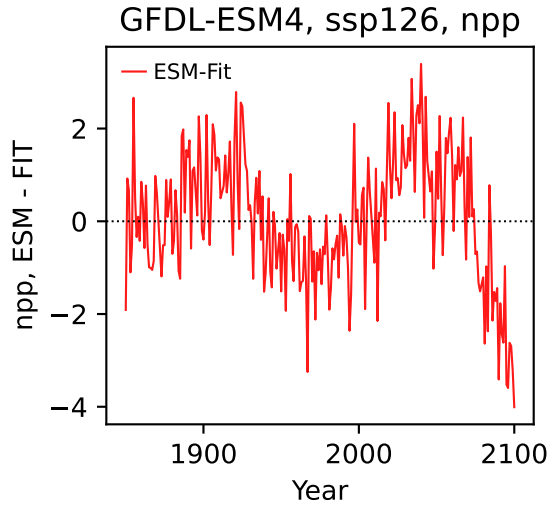

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5669, 58.0124, -0.9310, -0.0150, 0.0000, 0.8092, 0.9227, 0.
GFDL-ESM4
sres_c_e
sres_c_l
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
7.0
6.2
5.4
4.6
3.8
3.0
2.2
1.4
0.6

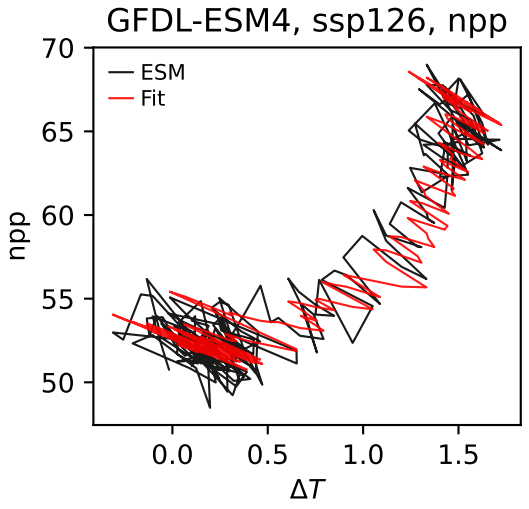

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5669, 58.0124, -0.9310, -0.0150, 0.0000, 0.8092, 0.9227, 0.
GFDL-ESM4
sres_hyst
sres_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
10.5
9.6
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4

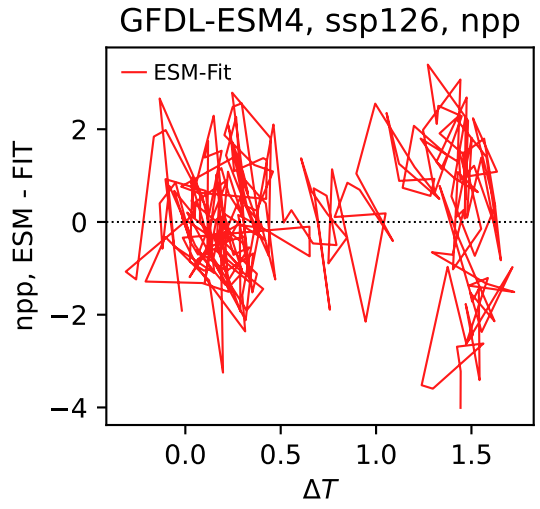

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5669, 58.0124, -0.9310, -0.0150, 0.0000, 0.8092, 0.9227, 0.
1e−13+9.5472287096e−1
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
sres_fast
GFDL-ESM4
−0.04
−0.02
0.00
0.02
0.04
sres_c_tan
9.681
9.441
9.202
8.962
8.722
8.482
8.241
8.001
7.762

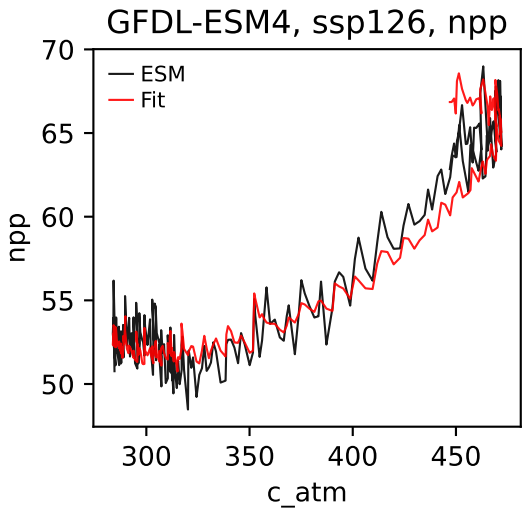

GFDL-ESM4, ssp126, sres, ln(MSE/SIGMA)
770, 1.5669, 58.0124, -0.9310, -0.0150, 0.0000, 0.8092, 0.9227, 0.
1e−13+9.5472287096e−1
GFDL-ESM4
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
sres_slow
−0.04
−0.02
0.00
0.02
0.04
sres_c_tan2
9.681
9.441
9.202
8.962
8.722
8.482
8.241
8.001
7.762

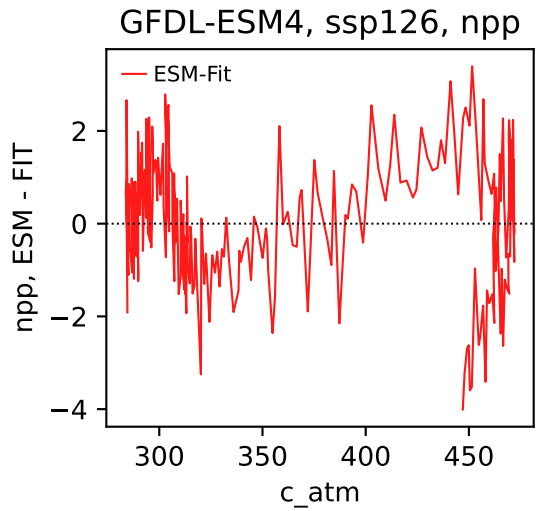

GFDL-ESM4, ssp126, npp
ESM
Fit
npp
Year

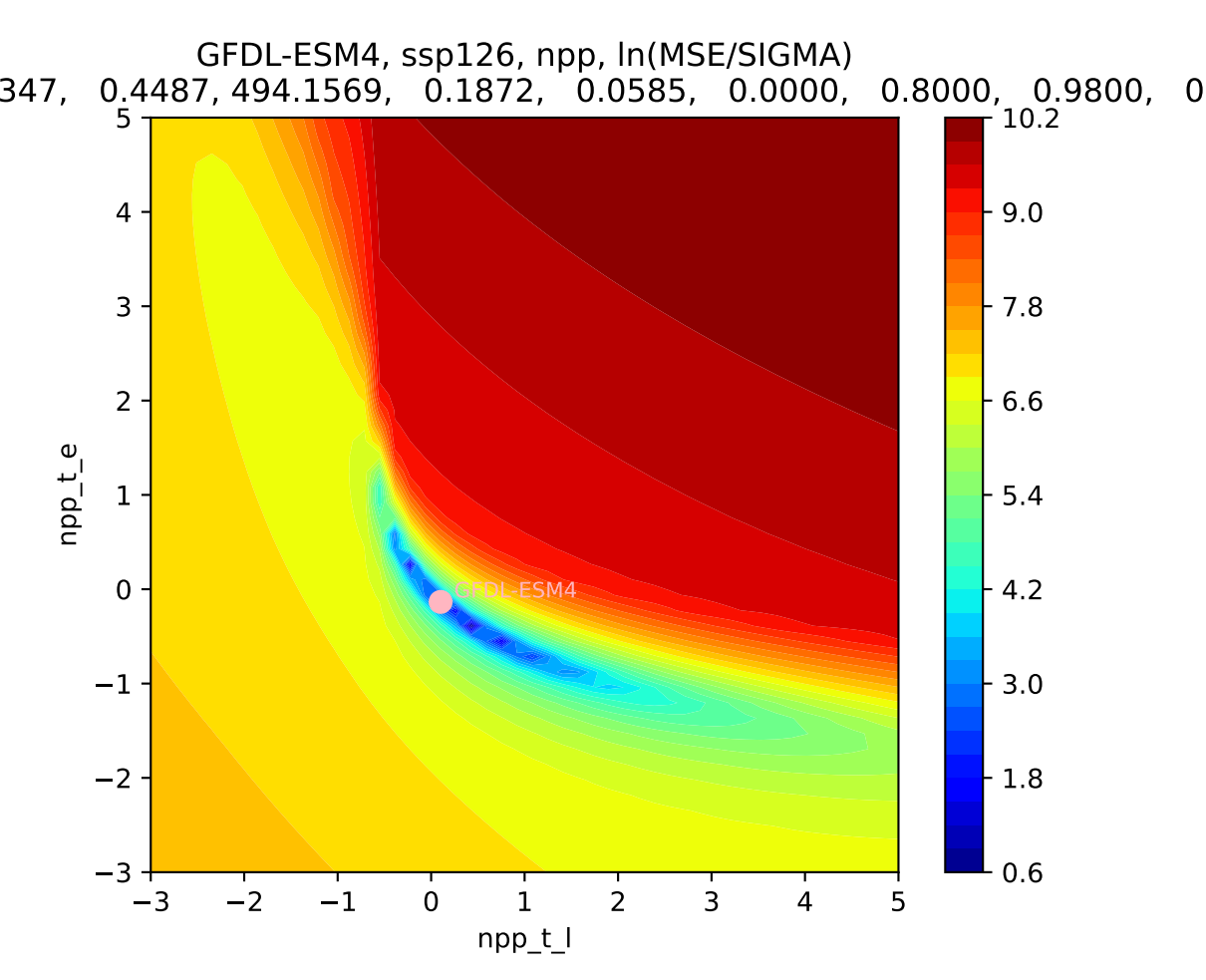

GFDL-ESM4, ssp126, npp
ESM-Fit
npp, ESM - FIT
Year

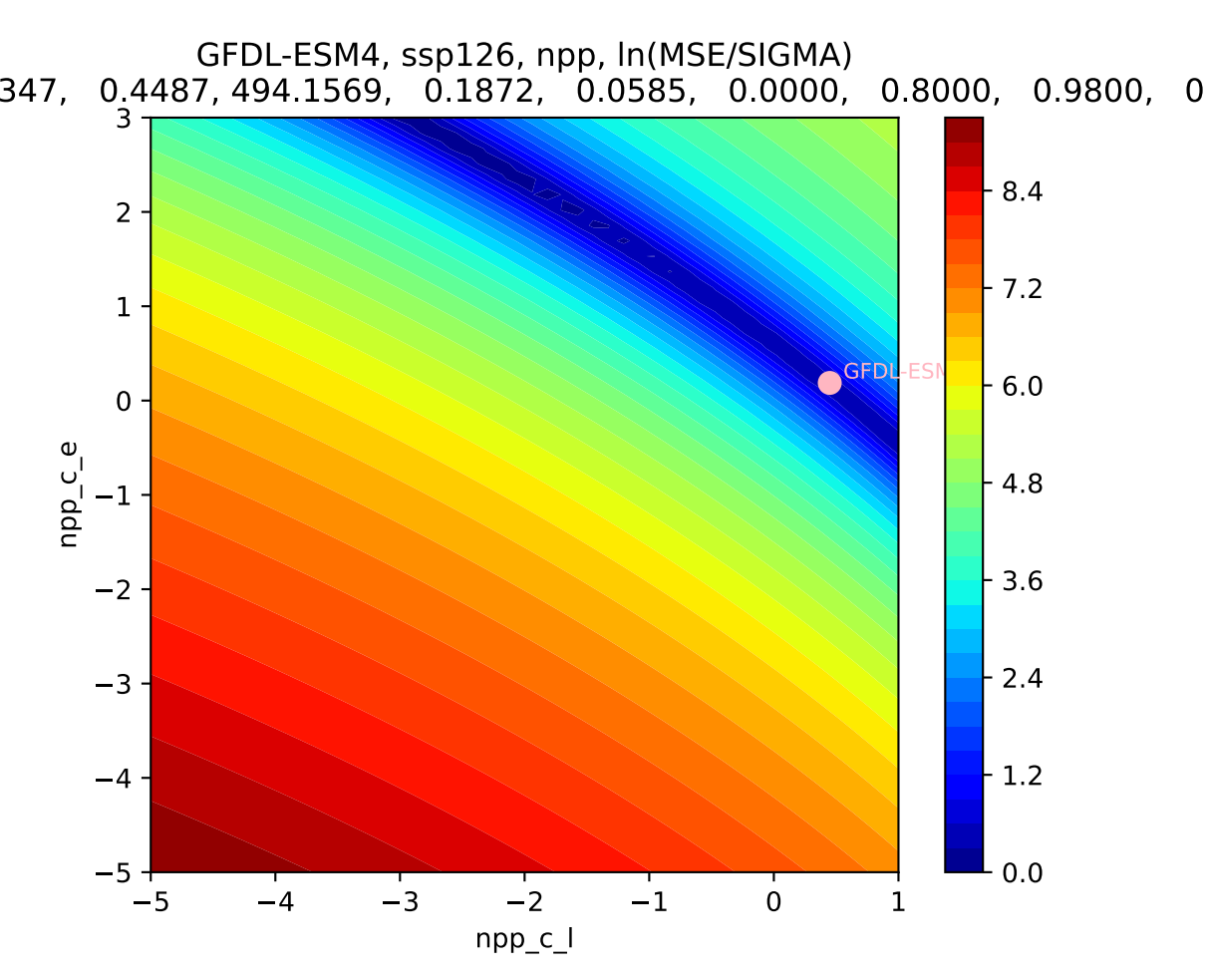

GFDL-ESM4, ssp126, npp
ESM
Fit
npp
ΔT

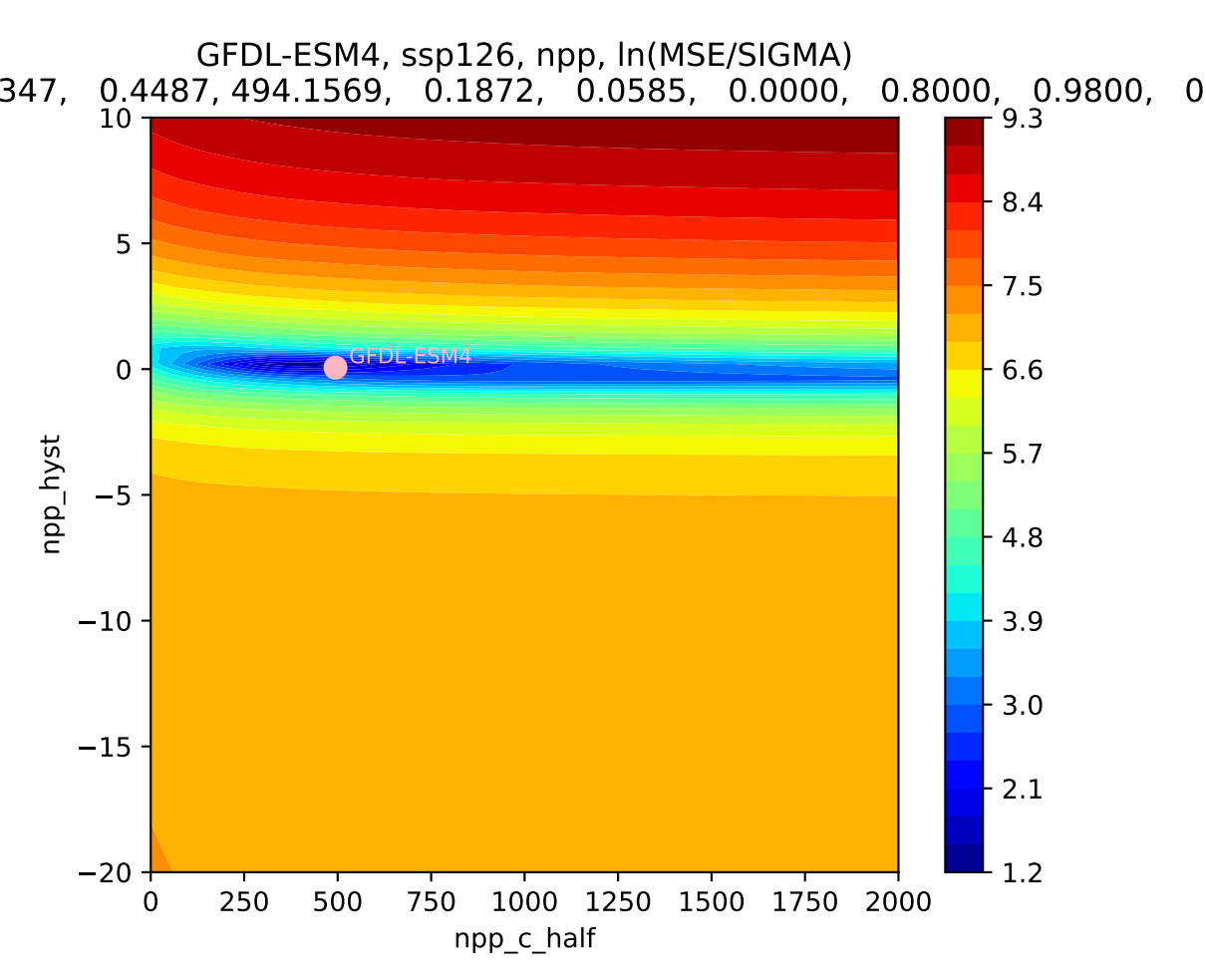

GFDL-ESM4, ssp126, npp
ESM-Fit
npp, ESM - FIT
ΔT

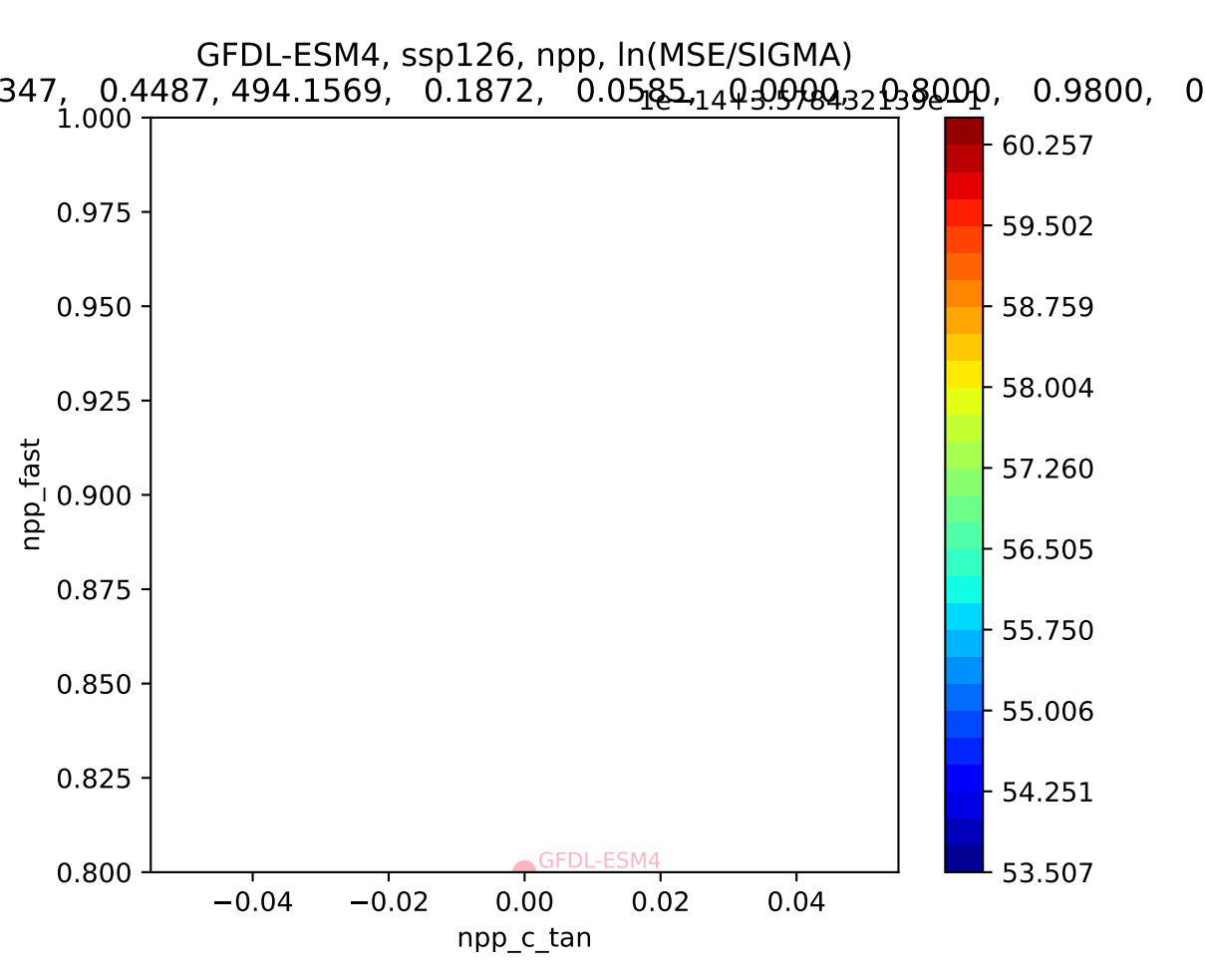

GFDL-ESM4, ssp126, npp
ESM
Fit
npp
c_atm

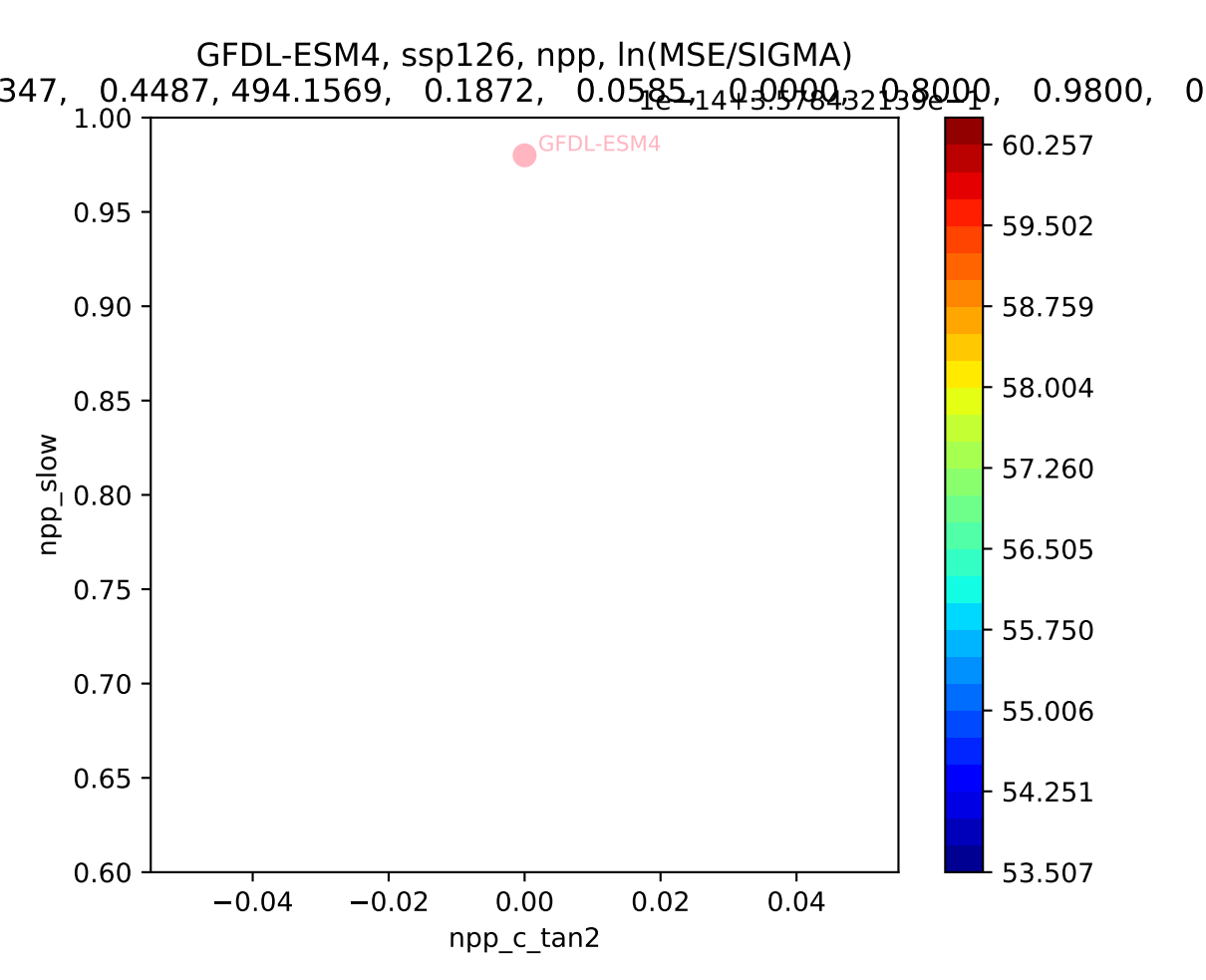

GFDL-ESM4, ssp126, npp
ESM-Fit
npp, ESM - FIT
c_atm

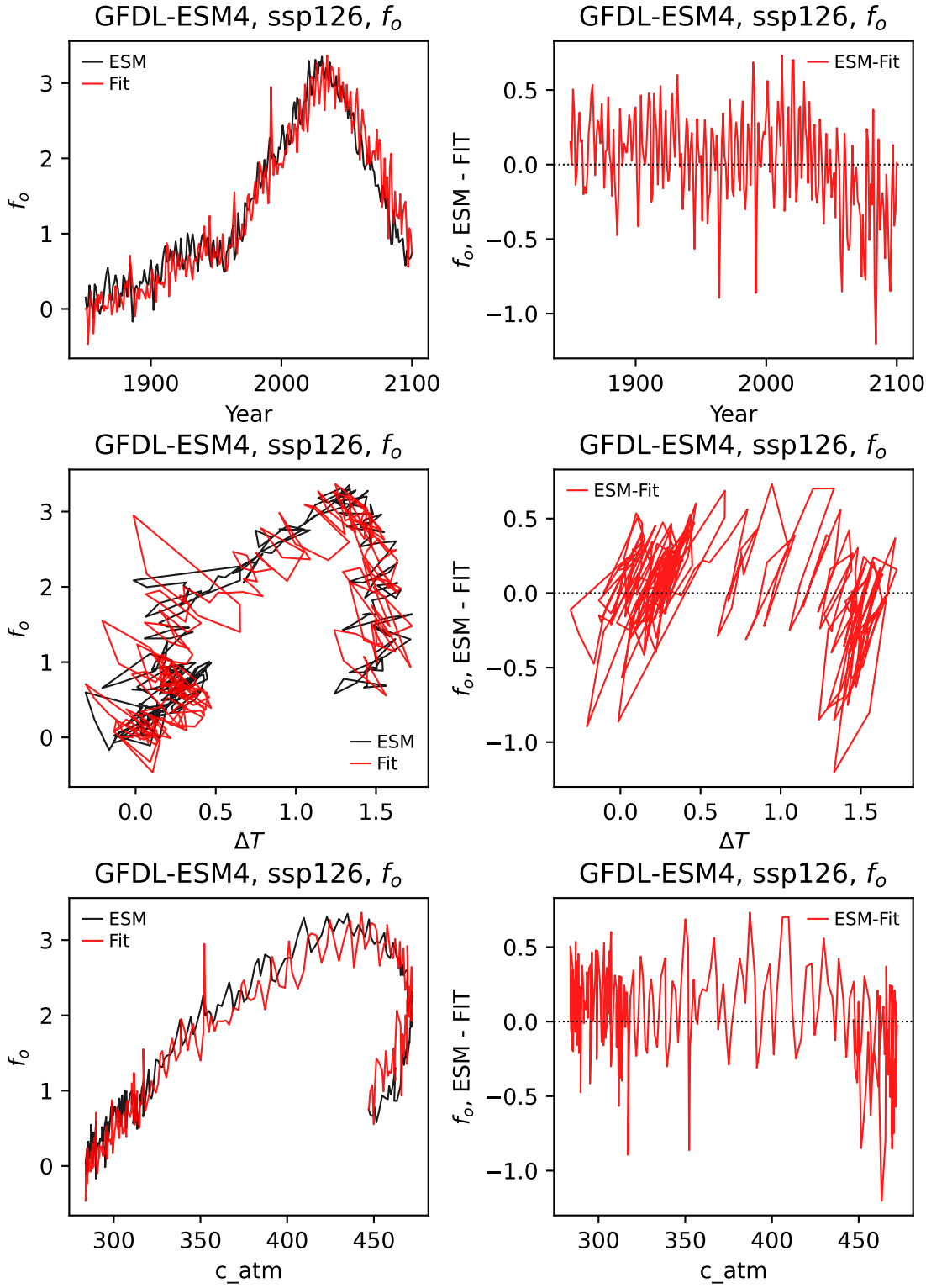

GFDL-ESM4, ssp126, npp, ln(MSE/SIGMA)
347, 0.4487, 494.1569, 0.1872, 0.0585, 0.0000, 0.8000, 0.9800, 0
GFDL-ESM4
npp_t_e
npp_t_l
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6

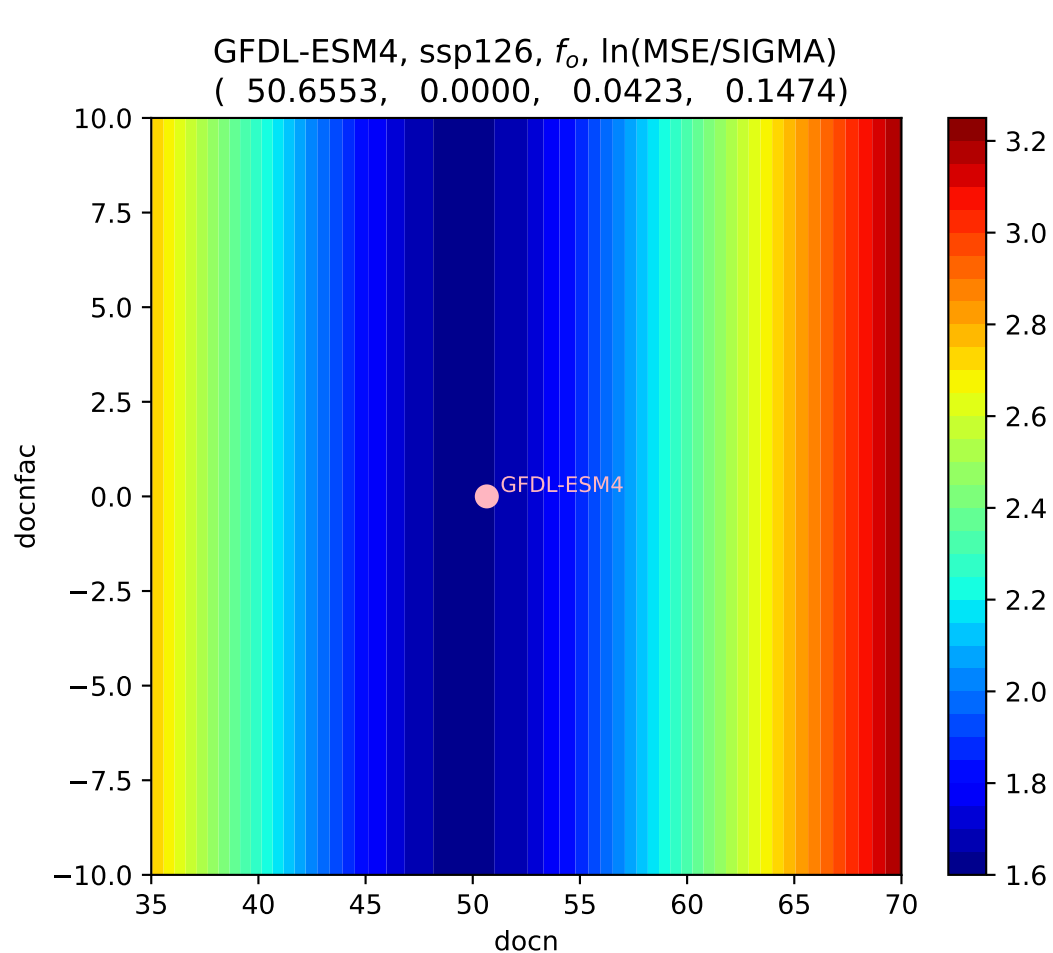

GFDL-ESM4, ssp126, npp, ln(MSE/SIGMA)
347, 0.4487, 494.1569, 0.1872, 0.0585, 0.0000, 0.8000, 0.9800, 0
GFDL-ESM
npp_c_e
npp_c_l
3
2
1
0
−1
−2
−3
−4
−5
−5
−4
−3
−2
−1
0
1
8.4
7.2
6.0
4.8
3.6
2.4
1.2
0.0

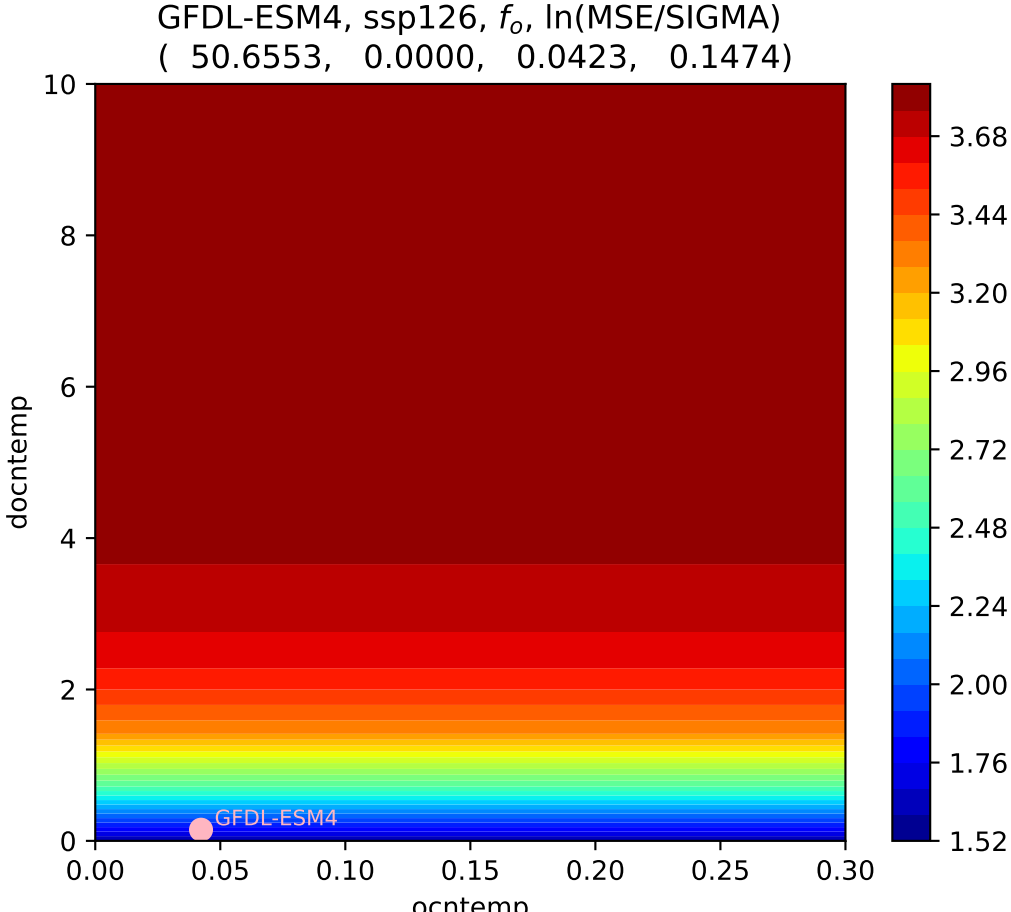

GFDL-ESM4, ssp126, npp, ln(MSE/SIGMA)
347, 0.4487, 494.1569, 0.1872, 0.0585, 0.0000, 0.8000, 0.9800, 0
GFDL-ESM4
npp_hyst
npp_c_half
10
5
0
−5
−10
−15
−20
0
250
500
750
1000
1250
1500
1750
2000
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2


GFDL-ESM4, ssp126, npp, ln(MSE/SIGMA)
347, 0.4487, 494.1569, 0.1872, 0.0585, 0.0000, 0.8000, 0.9800, 0
1e−14+3.5784321139e−1
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
npp_fast
−0.04
−0.02
0.00
0.02
0.04
npp_c_tan
60.257
59.502
58.759
58.004
57.260
56.505
55.750
55.006
54.251
53.507
GFDL-ESM4


GFDL-ESM4, ssp126, npp, ln(MSE/SIGMA)
347, 0.4487, 494.1569, 0.1872, 0.0585, 0.0000, 0.8000, 0.9800, 0
1e−14+3.5784321139e−1
GFDL-ESM4
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
−0.04
−0.02
0.00
0.02
0.04
npp_c_tan2
60.257
59.502
58.759
58.004
57.260
56.505
55.750
55.006
54.251
53.507


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)
(50.6553, 0.0000, 0.0423, 0.1474)
GFDL-ESM4
docnfac
docn
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
35
40
45
50
55
60
65
70
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6


GFDL-ESM4, ssp126, f_o, ln(MSE/SIGMA)
(50.6553, 0.0000, 0.0423, 0.1474)
docntemp
ocntemp
GFDL-ESM4
0
2
4
6
8
10
0.00
0.05
0.10
0.15
0.20
0.25
0.30
3.68
3.44
3.20
2.96
2.72
2.48
2.24
2.00
1.76
1.52