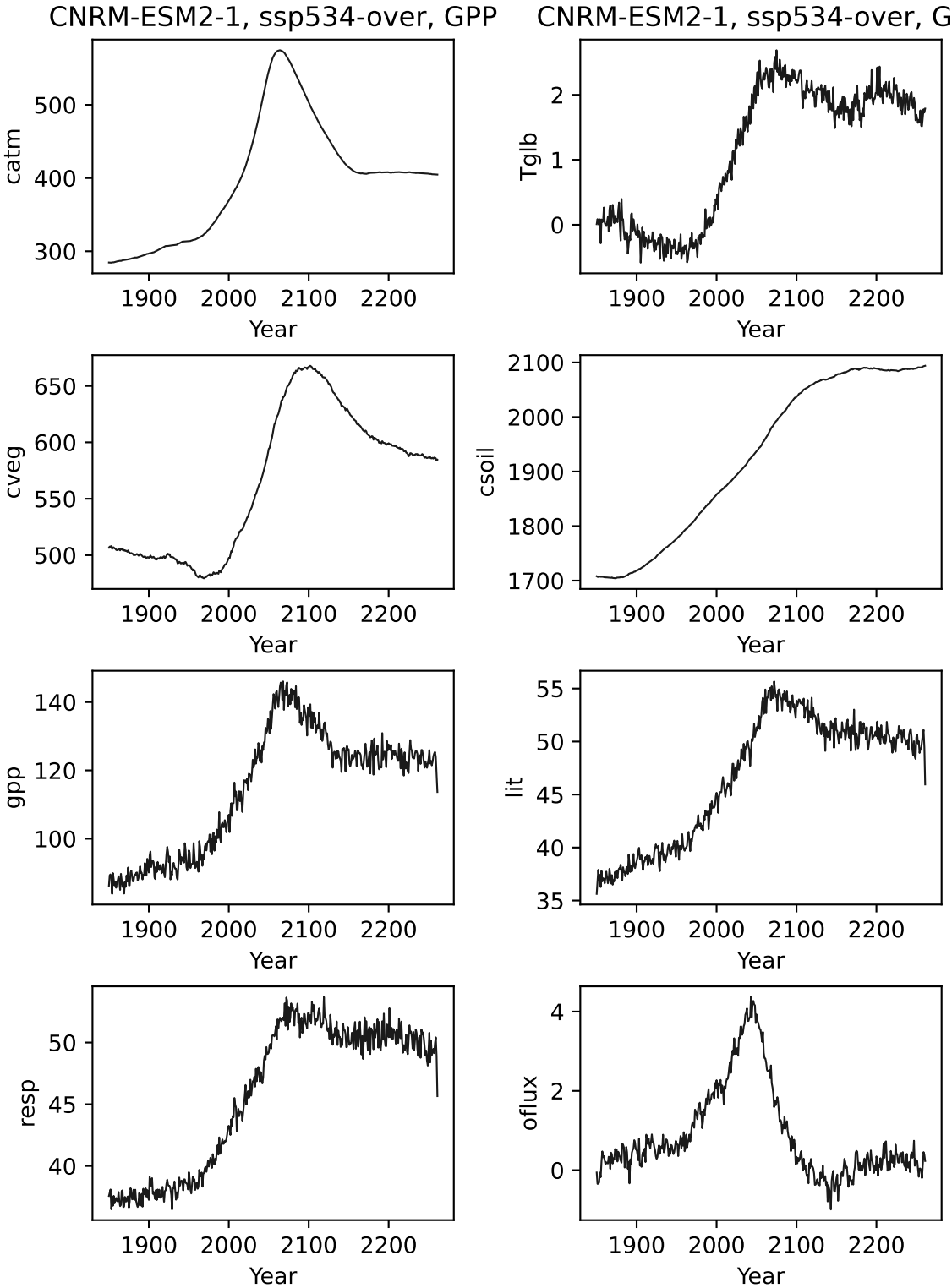
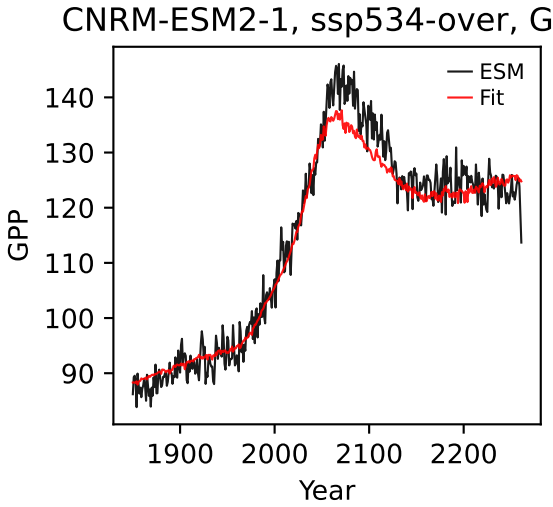
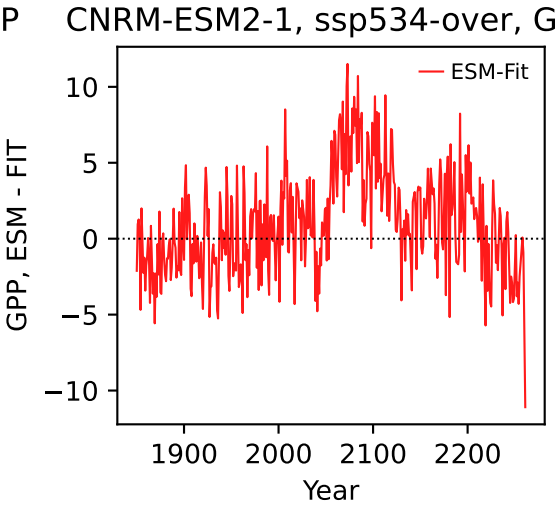
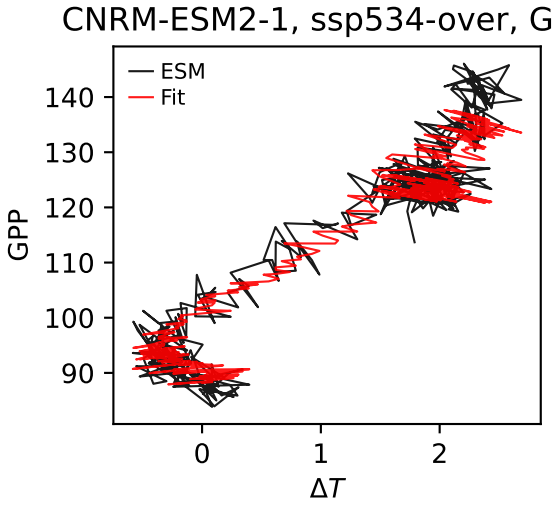
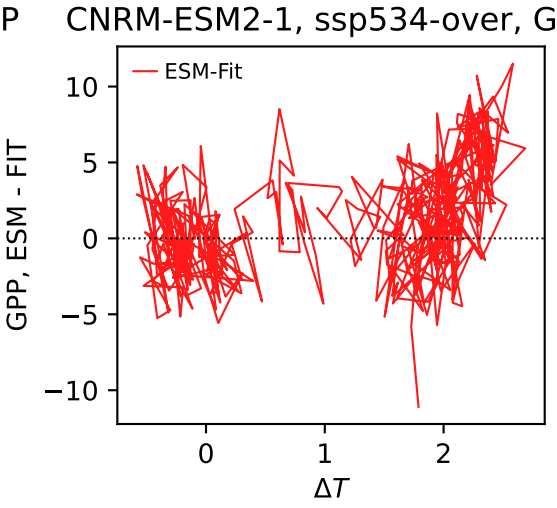
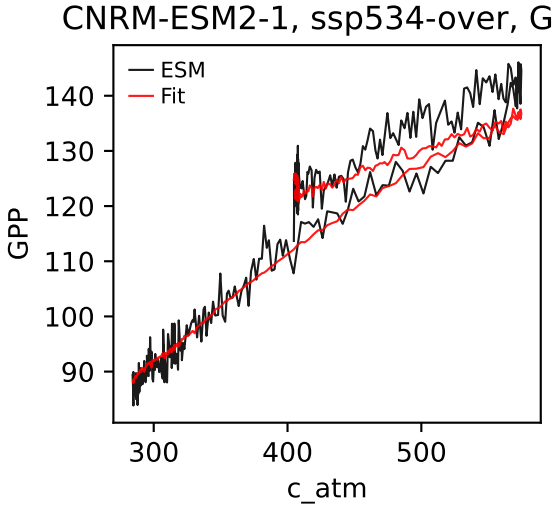

CNRM-ESM2-1, ssp534-over, GPP
CNRM-ESM2-1, ssp534-over, GPP
catm
Tglb
cveg
csoil
gpp
lit
resp
oflux
Year

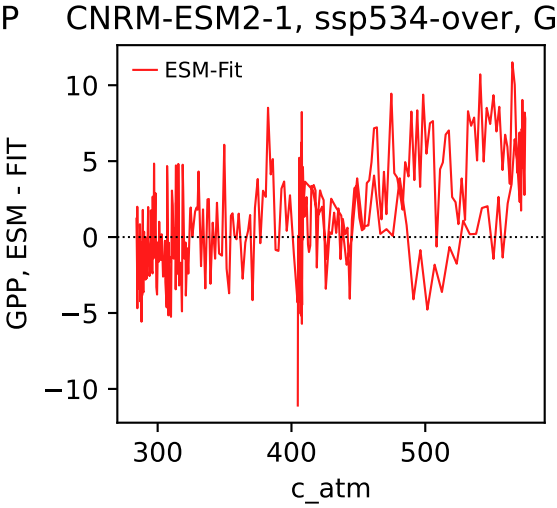

CNRM-ESM2-1, ssp534-over, GPP
ESM
Fit
GPP
Year

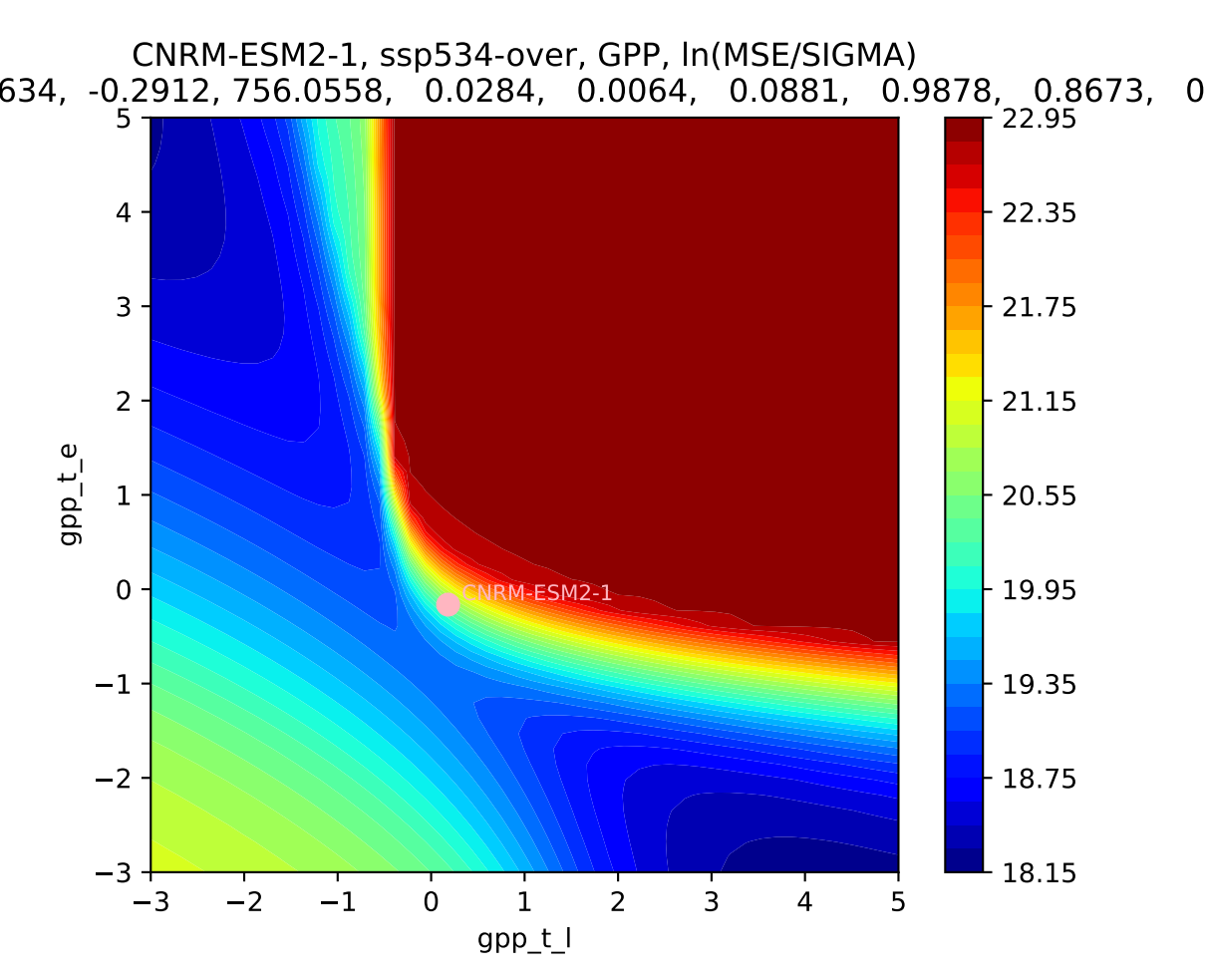

CNRM-ESM2-1, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
Year

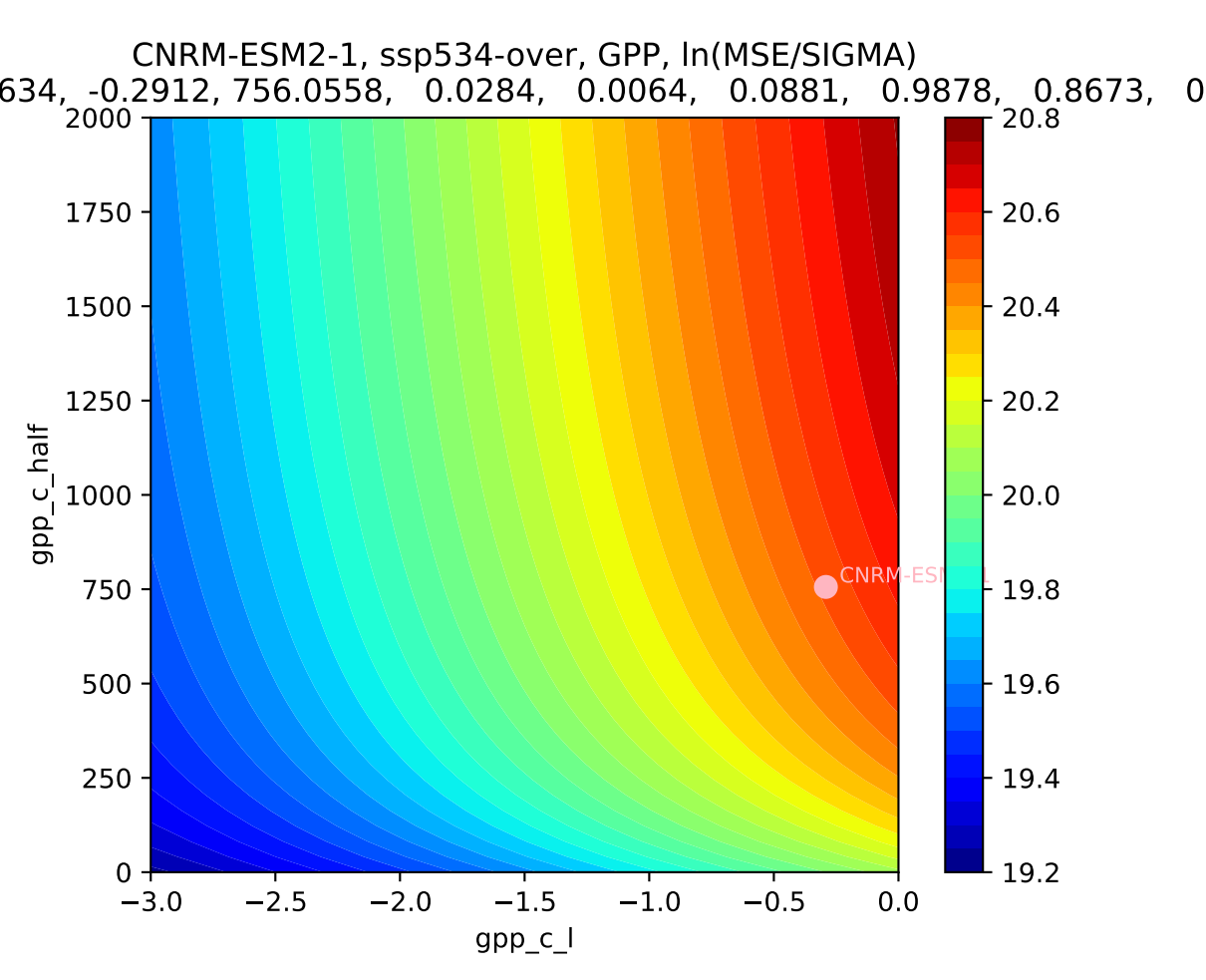

CNRM-ESM2-1, ssp534-over, GPP
ESM
Fit
GPP
ΔT

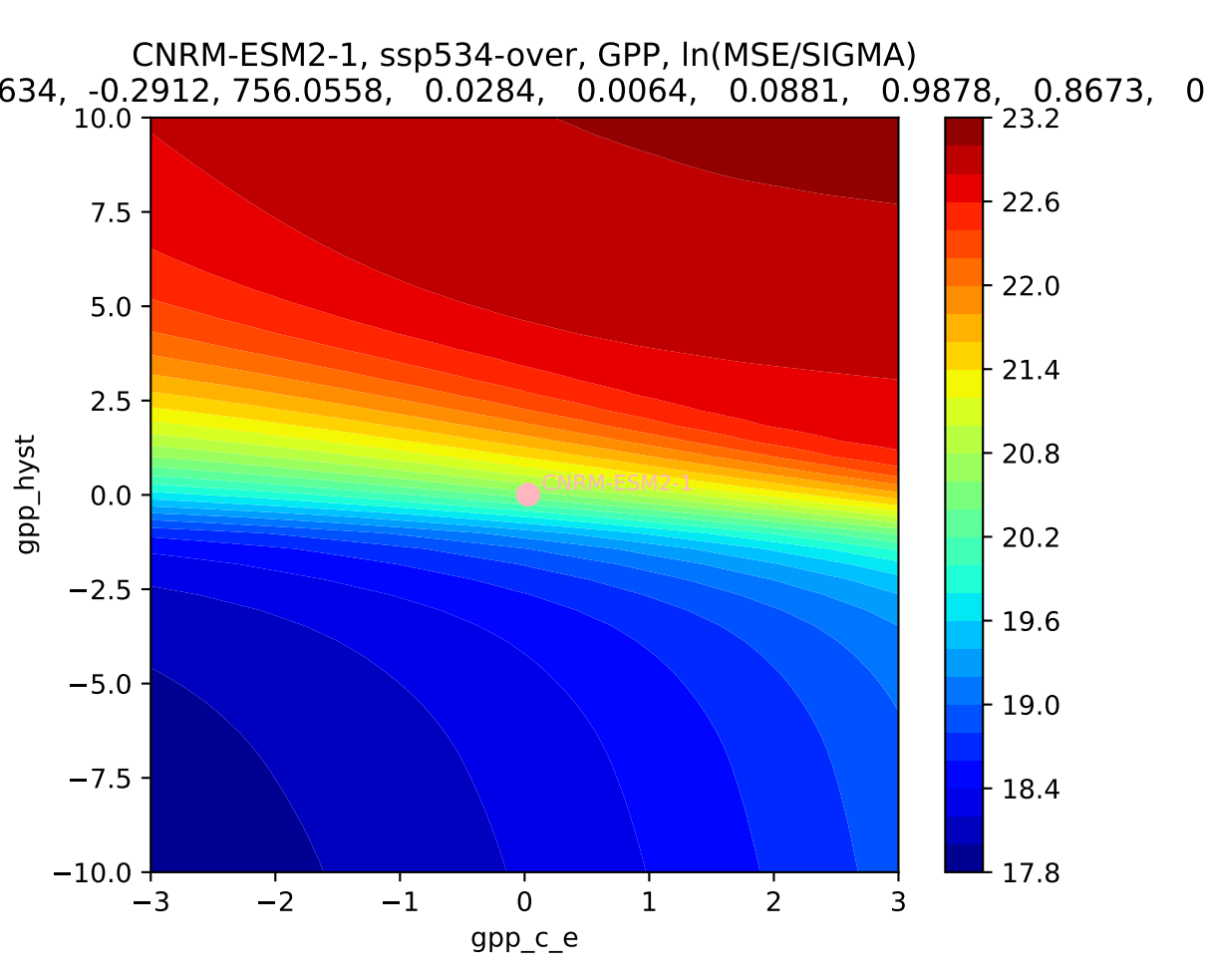

CNRM-ESM2-1, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

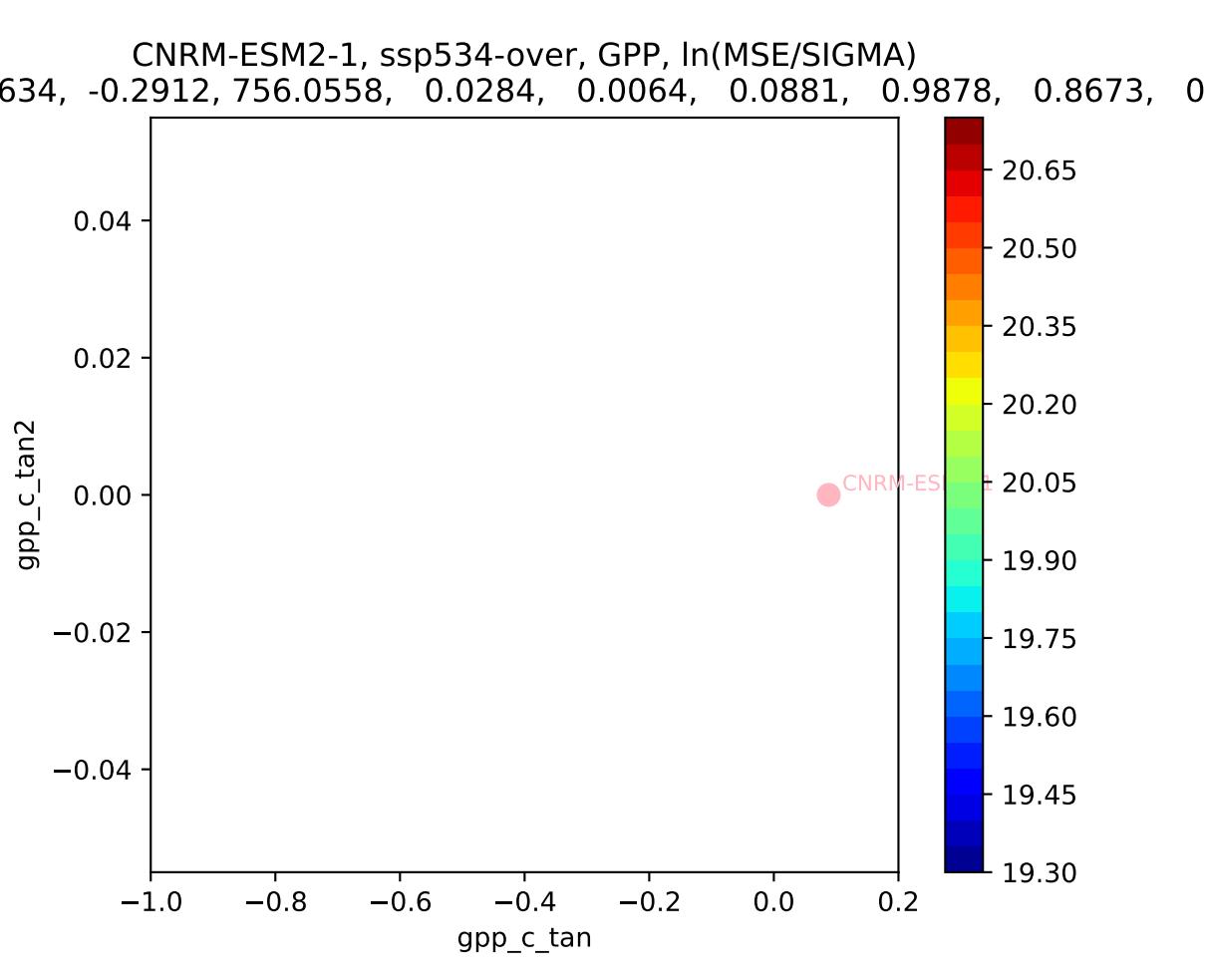

CNRM-ESM2-1, ssp534-over, GPP
ESM
Fit
GPP
c_atm

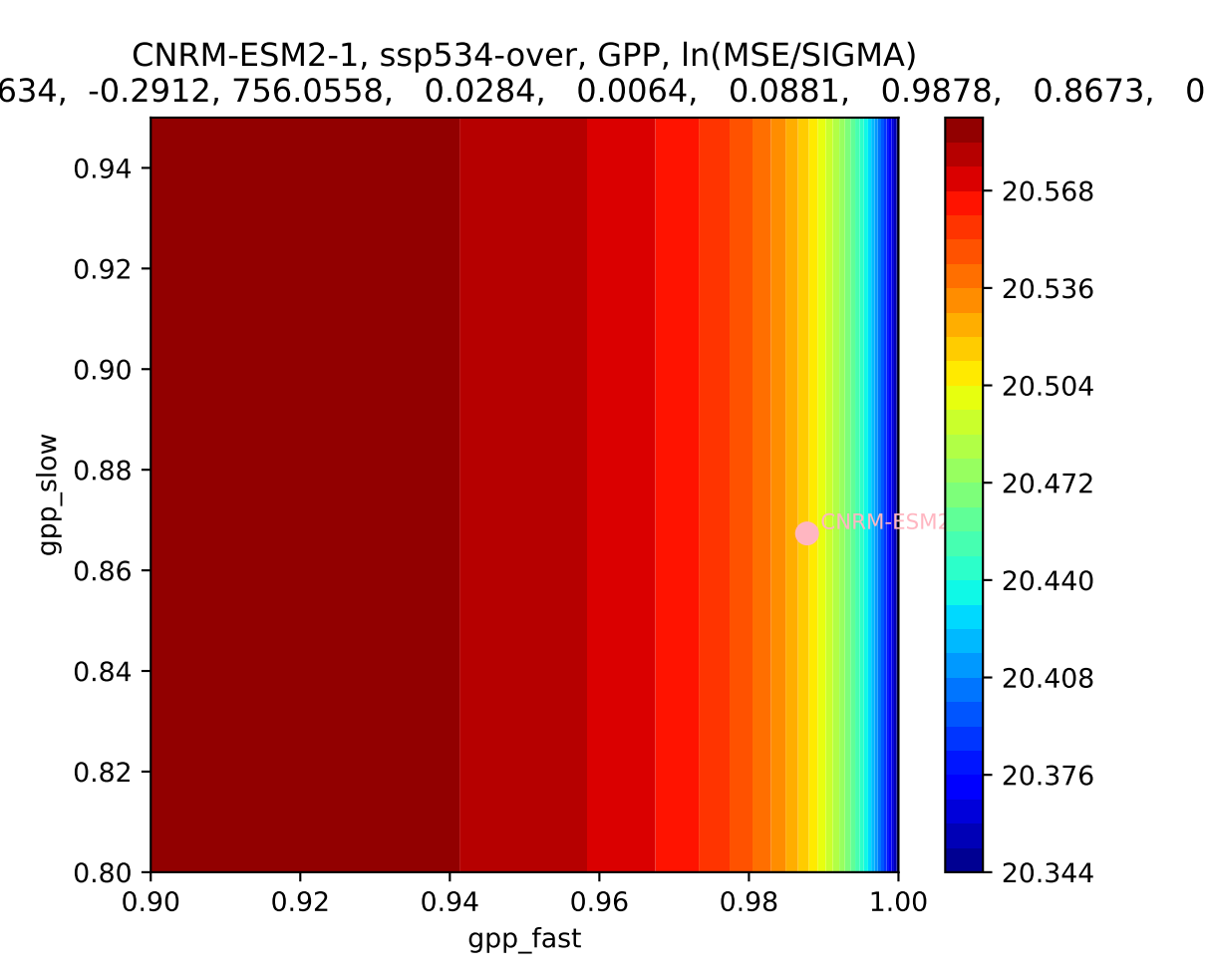

CNRM-ESM2-1, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

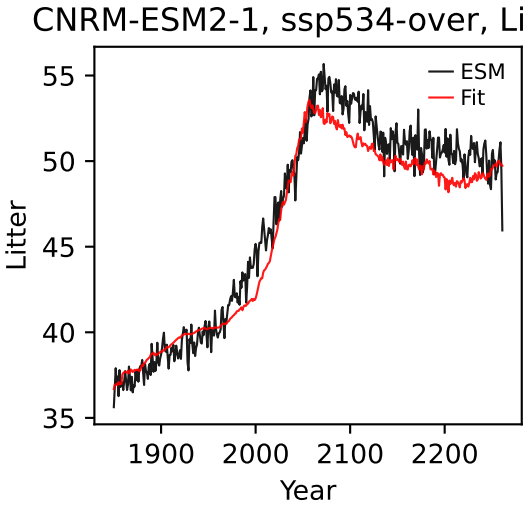

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 756.0558, 0.0284, 0.0064, 0.0881, 0.9878, 0.8673, 0
CNRM-ESM2-1
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
22.95
22.35
21.75
21.15
20.55
19.95
19.35
18.75
18.15

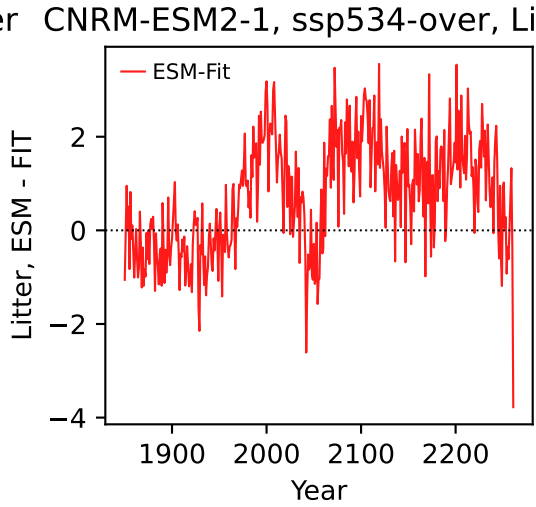

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 756.0558, 0.0284, 0.0064, 0.0881, 0.9878, 0.8673, 0
gpp_c_half
gpp_c_l
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
20.8
20.6
20.4
20.2
20.0
19.8
19.6
19.4
19.2

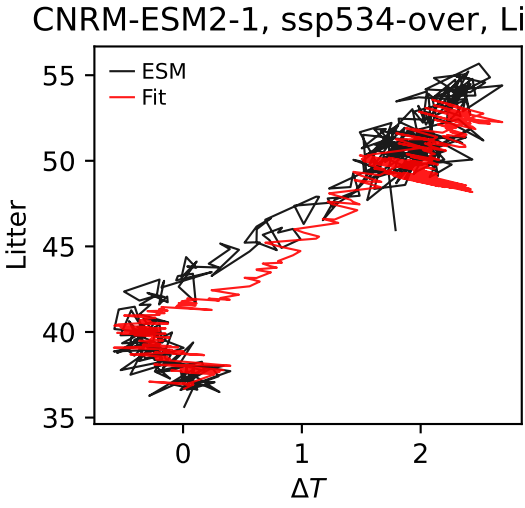

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 756.0558, 0.0284, 0.0064, 0.0881, 0.9878, 0.8673, 0
CNRM-ESM2-1
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
23.2
22.6
22.0
21.4
20.8
20.2
19.6
19.0
18.4
17.8

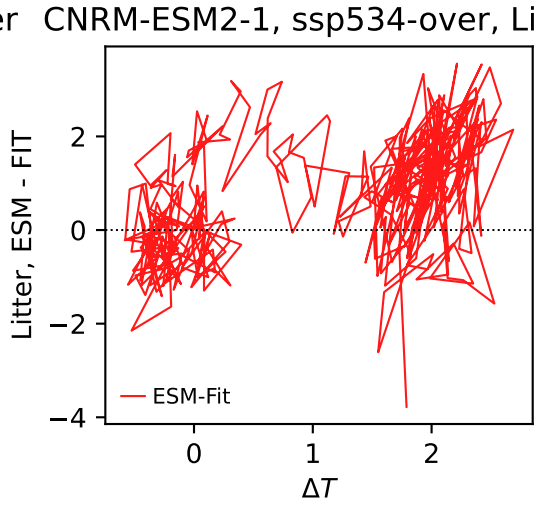

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 756.0558, 0.0284, 0.0064, 0.0881, 0.9878, 0.8673, 0
0.04
0.02
0.00
−0.02
−0.04
gpp_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
gpp_c_tan
20.65
20.50
20.35
20.20
20.05
19.90
19.75
19.60
19.45
19.30

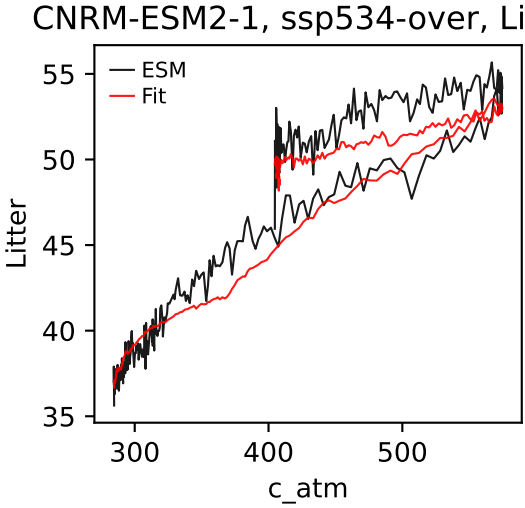

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 756.0558, 0.0284, 0.0064, 0.0881, 0.9878, 0.8673, 0
gpp_slow
gpp_fast
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
0.90
0.92
0.94
0.96
0.98
1.00
20.568
20.536
20.504
20.472
20.440
20.408
20.376
20.344

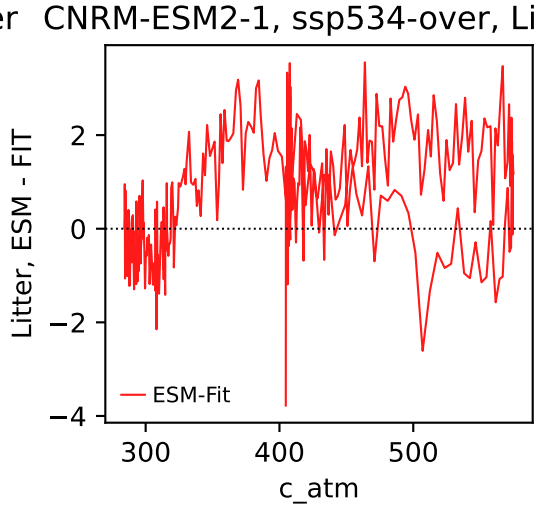

CNRM-ESM2-1, ssp534-over, Litter
ESM
Fit
Litter
Year

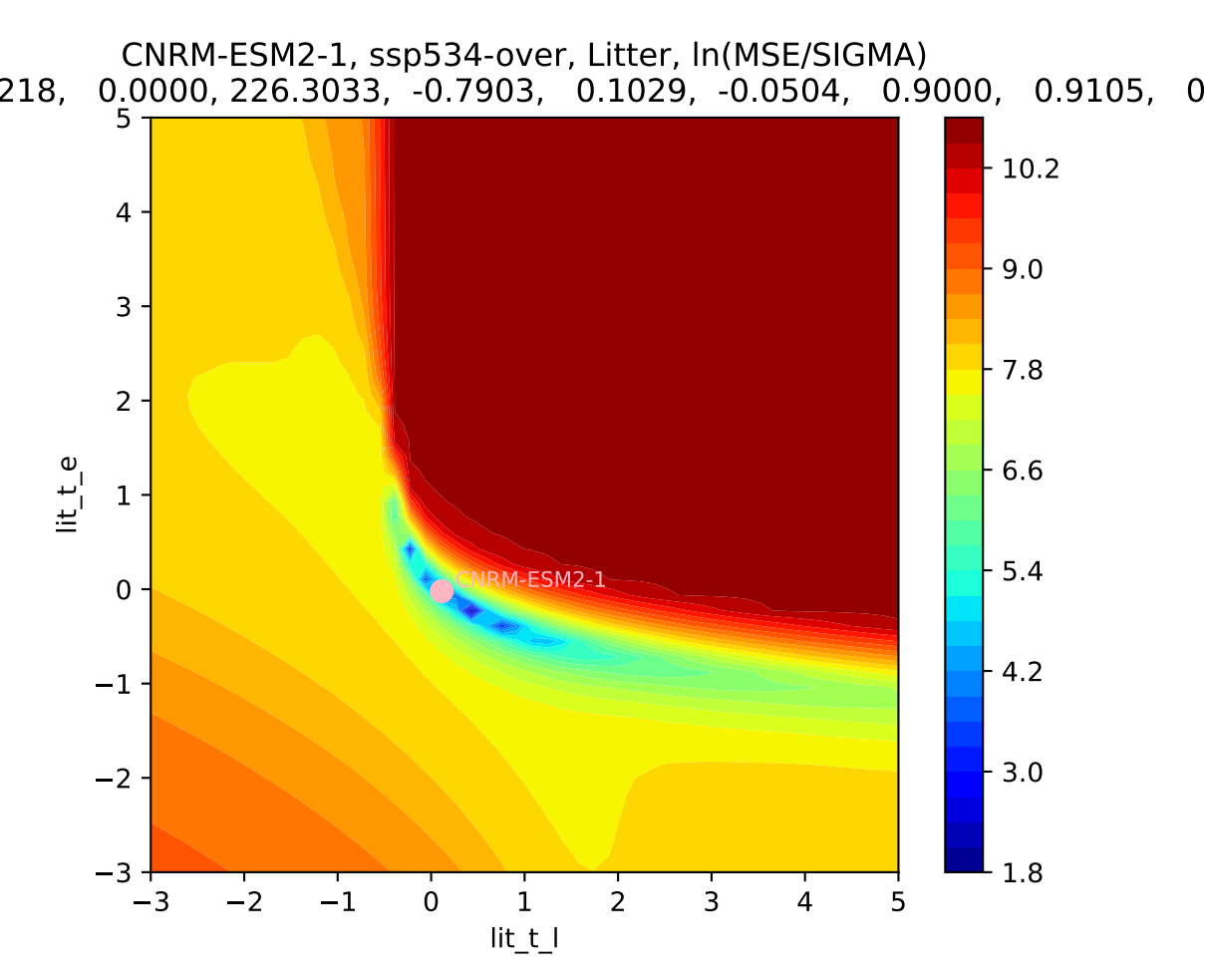

CNRM-ESM2-1, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
Year

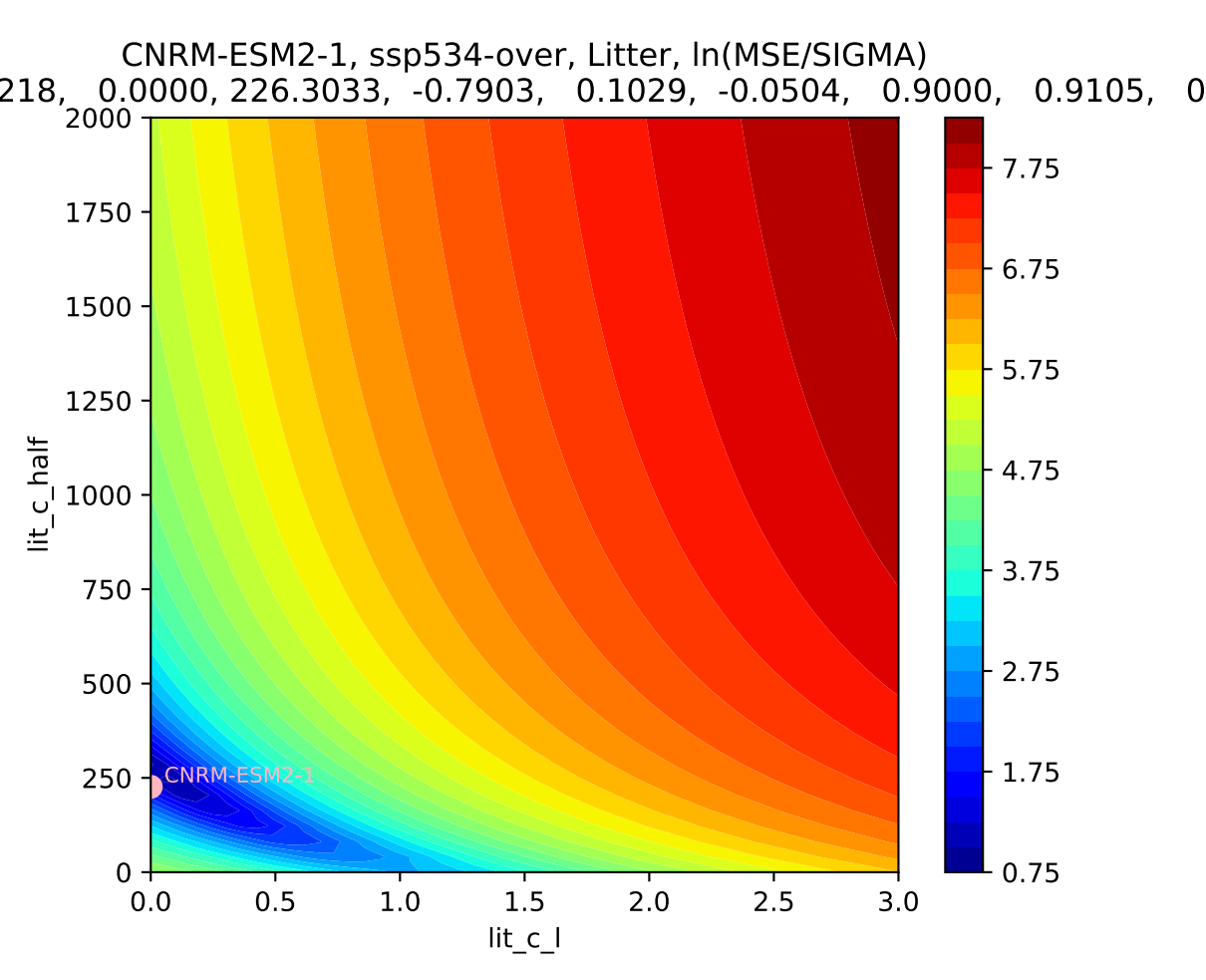

CNRM-ESM2-1, ssp534-over, Litter
ESM
Fit
Litter
ΔT

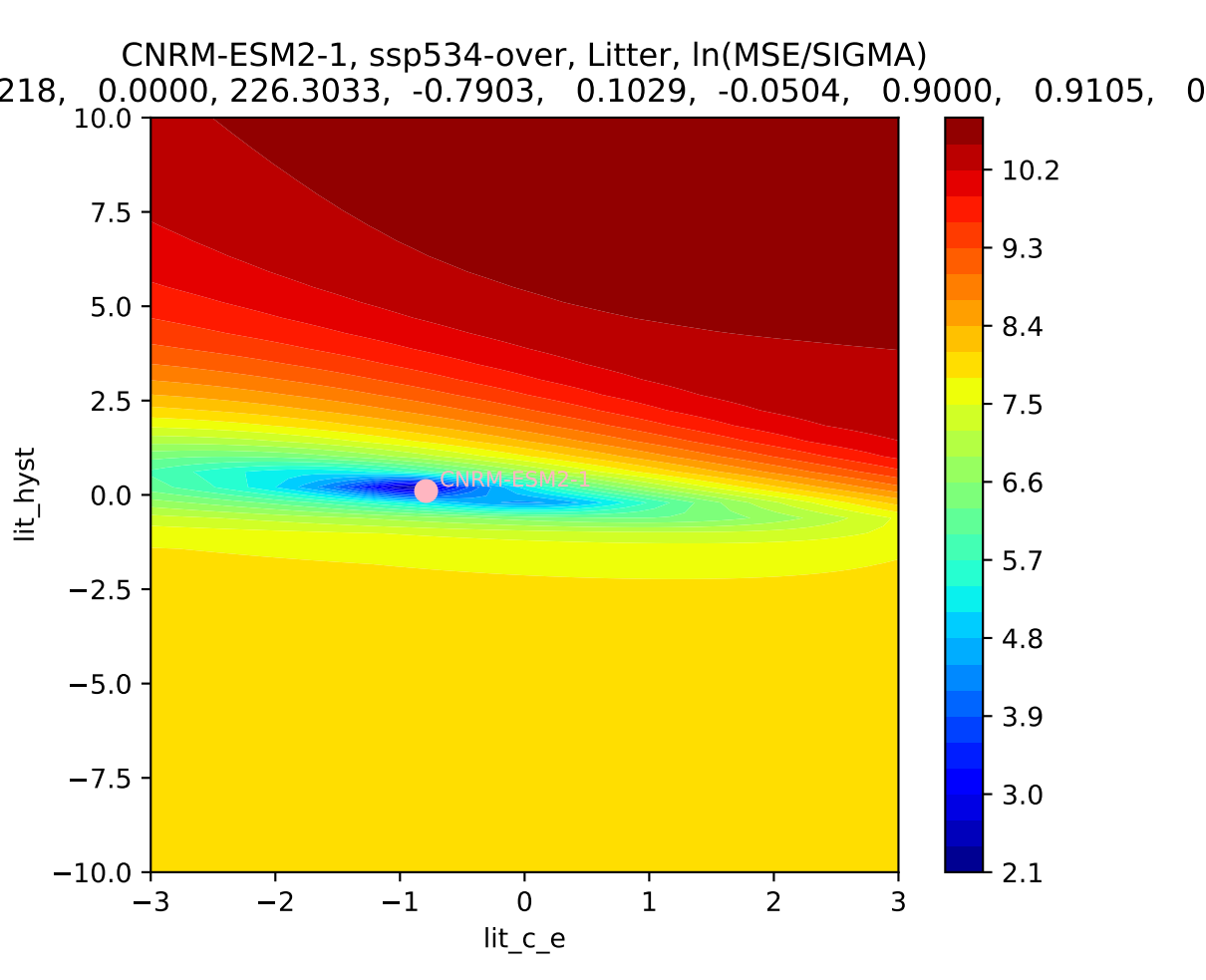

CNRM-ESM2-1, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
ΔT

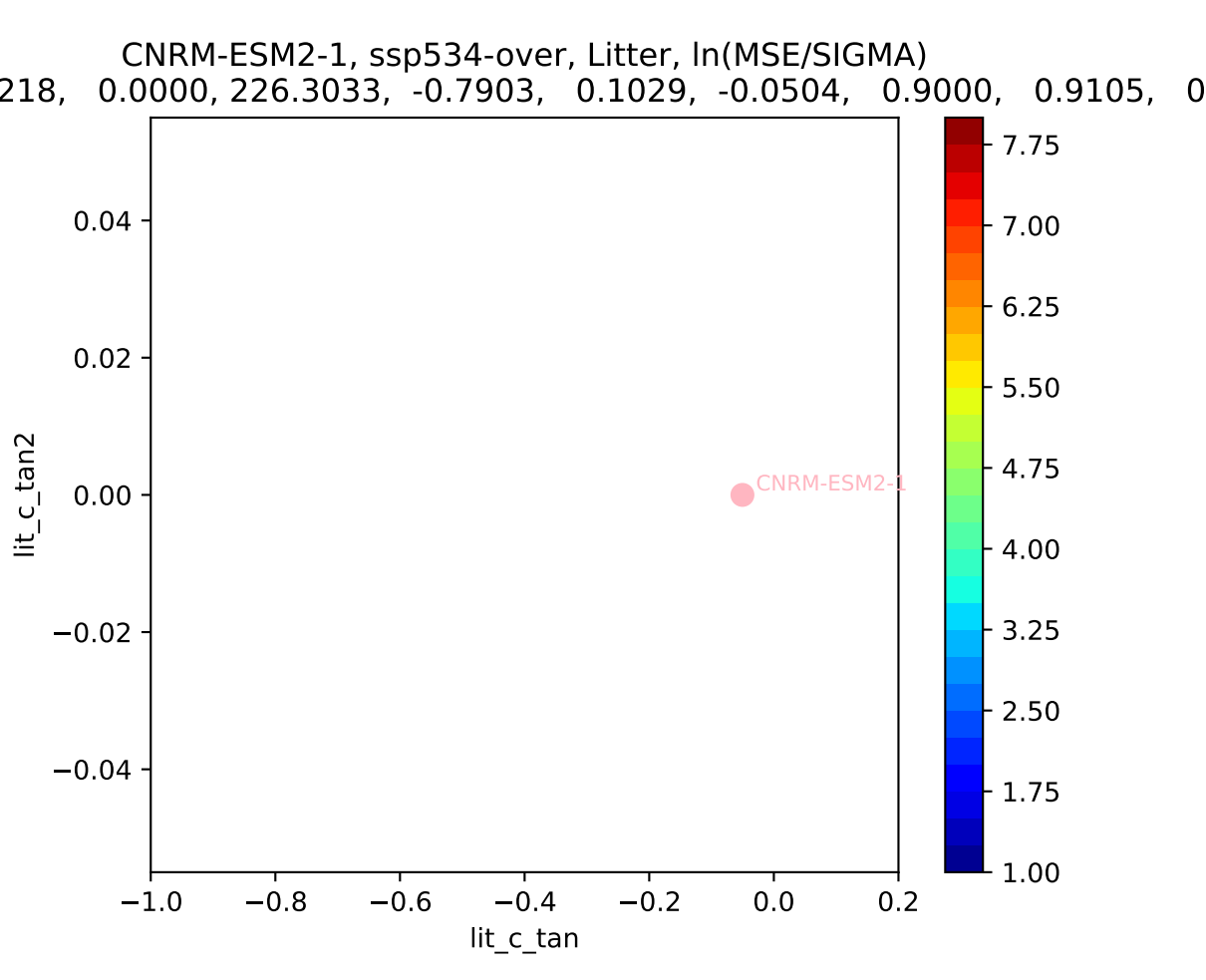

CNRM-ESM2-1, ssp534-over, Litter
ESM
Fit
Litter
c_atm

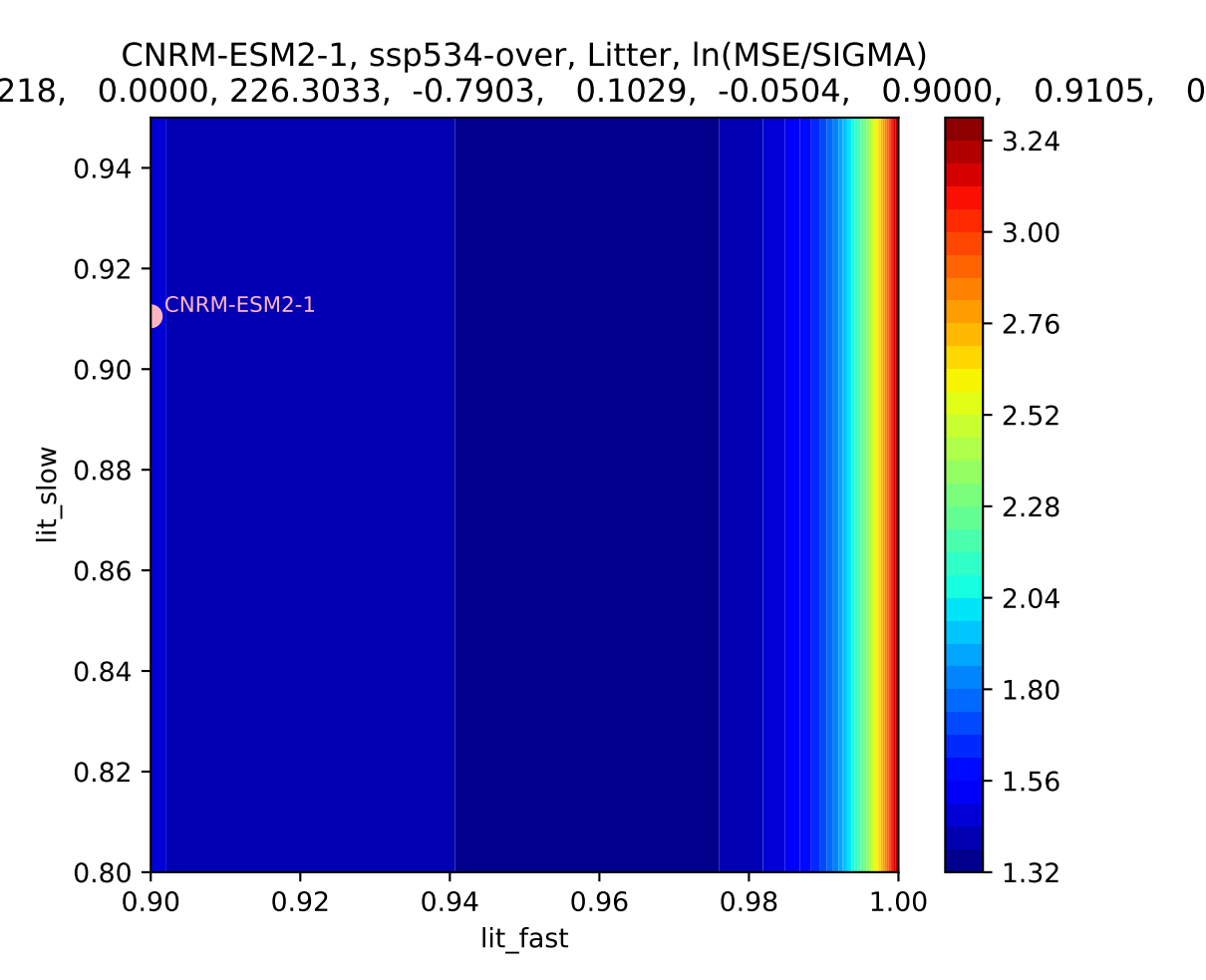

CNRM-ESM2-1, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
c_atm

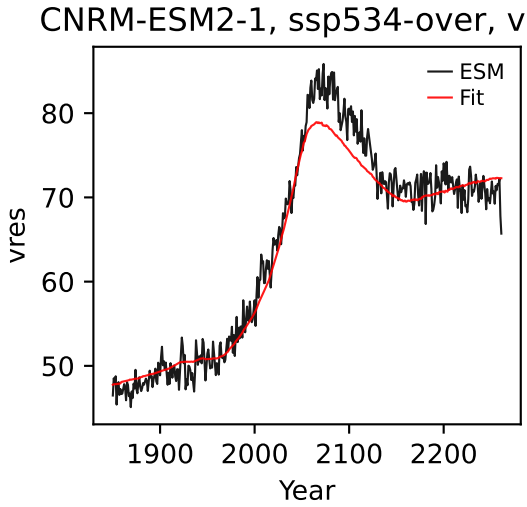

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
218, 0.0000, 226.3033, -0.7903, 0.1029, -0.0504, 0.9000, 0.9105, 0
CNRM-ESM2-1
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8

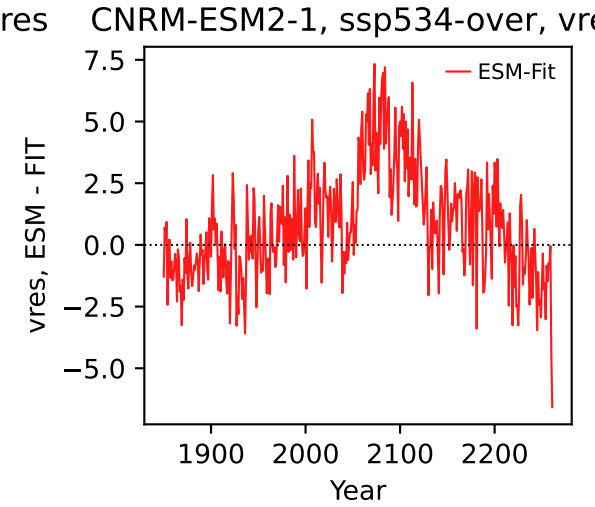

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
218, 0.0000, 226.3033, -0.7903, 0.1029, -0.0504, 0.9000, 0.9105, 0
lit_c_half
lit_c_l
CNRM-ESM2-1
0
250
500
750
1000
1250
1500
1750
2000
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0.75
1.75
2.75
3.75
4.75
5.75
6.75
7.75

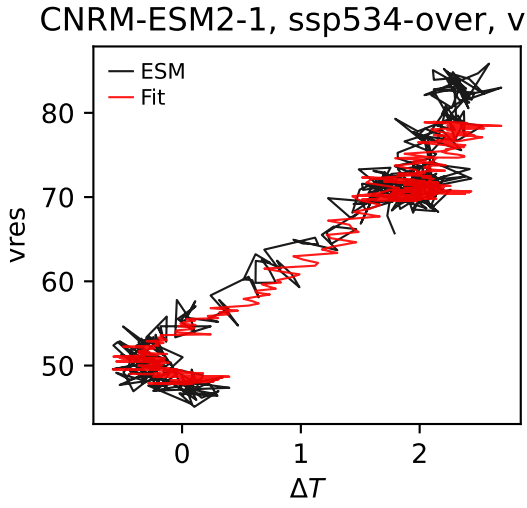

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
218, 0.0000, 226.3033, -0.7903, 0.1029, -0.0504, 0.9000, 0.9105, 0
CNRM-ESM2-1
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.2
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1

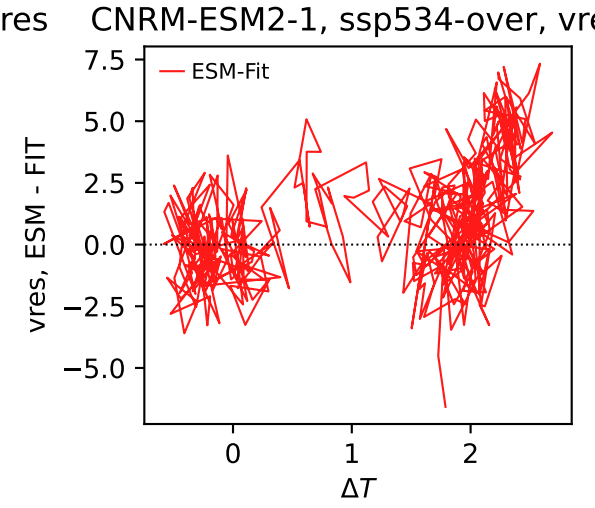

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
218, 0.0000, 226.3033, -0.7903, 0.1029, -0.0504, 0.9000, 0.9105, 0
lit_c_tan2
lit_c_tan
CNRM-ESM2-1
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
7.75
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00

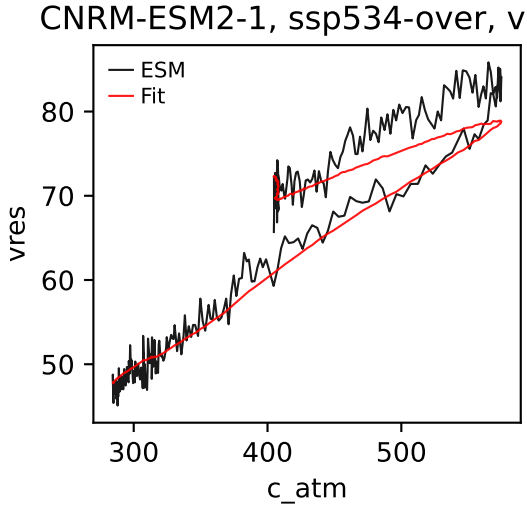

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
218, 0.0000, 226.3033, -0.7903, 0.1029, -0.0504, 0.9000, 0.9105, 0
CNRM-ESM2-1
lit_slow
lit_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
3.24
3.00
2.76
2.52
2.28
2.04
1.80
1.56
1.32

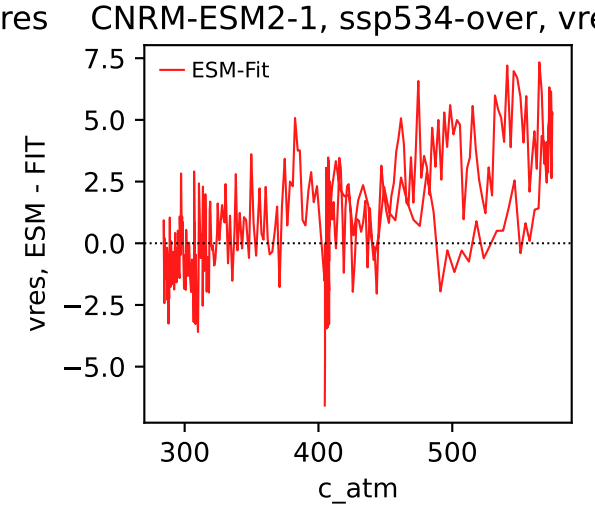

CNRM-ESM2-1, ssp534-over, vres
ESM
Fit
vres
Year

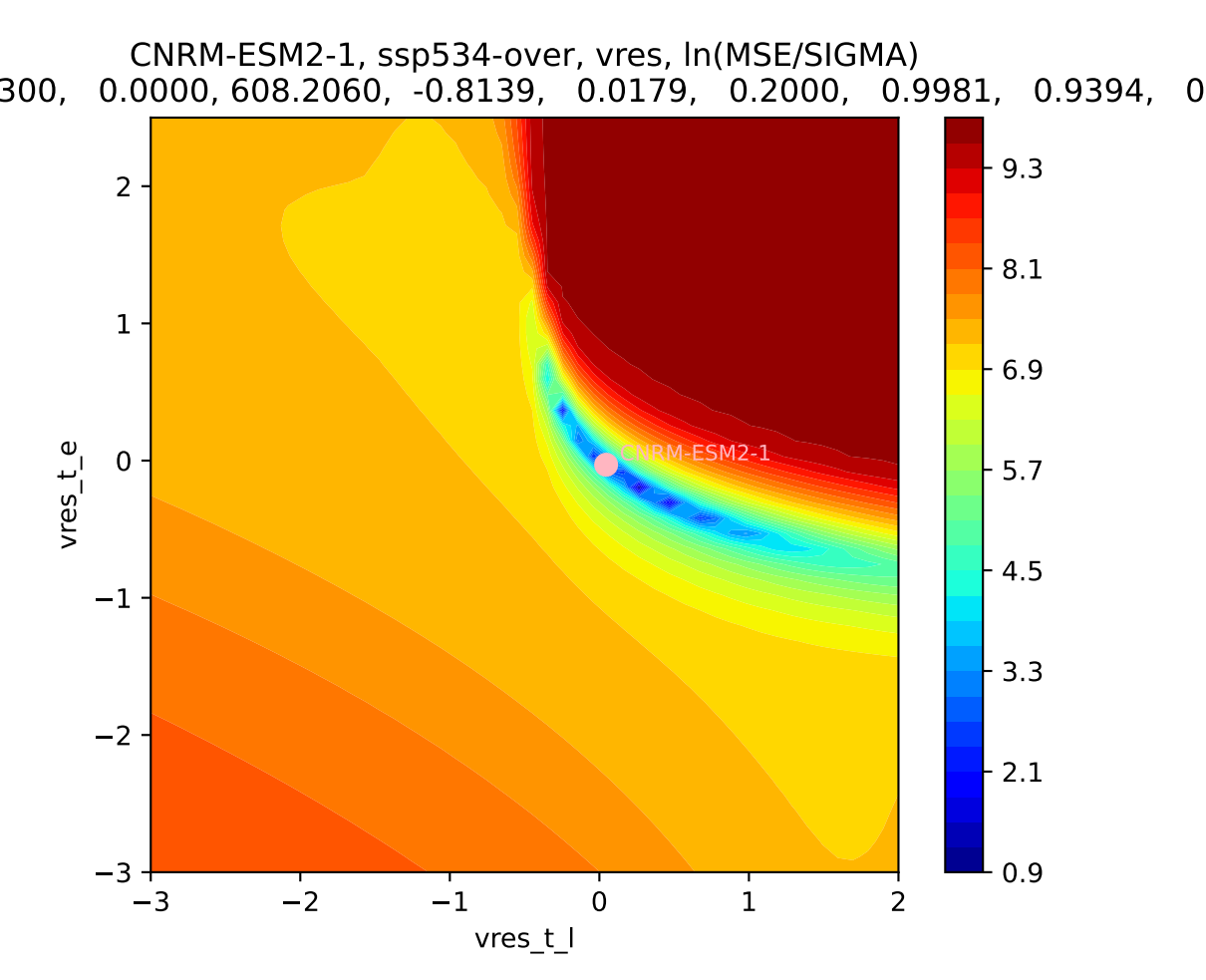

CNRM-ESM2-1, ssp534-over, vre
ESM-Fit
vres, ESM - FIT
Year

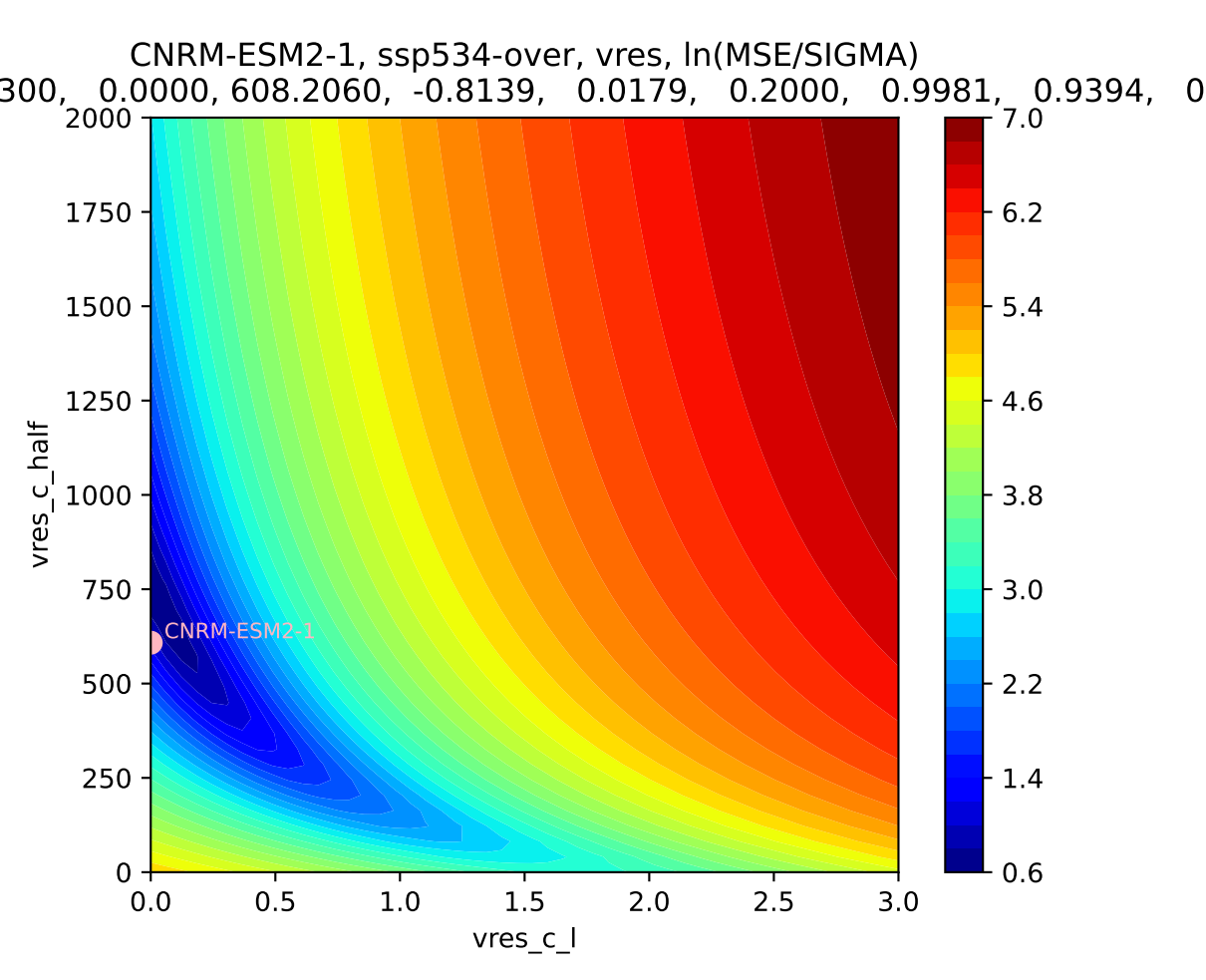

CNRM-ESM2-1, ssp534-over, vres
ESM
Fit
vres
ΔT

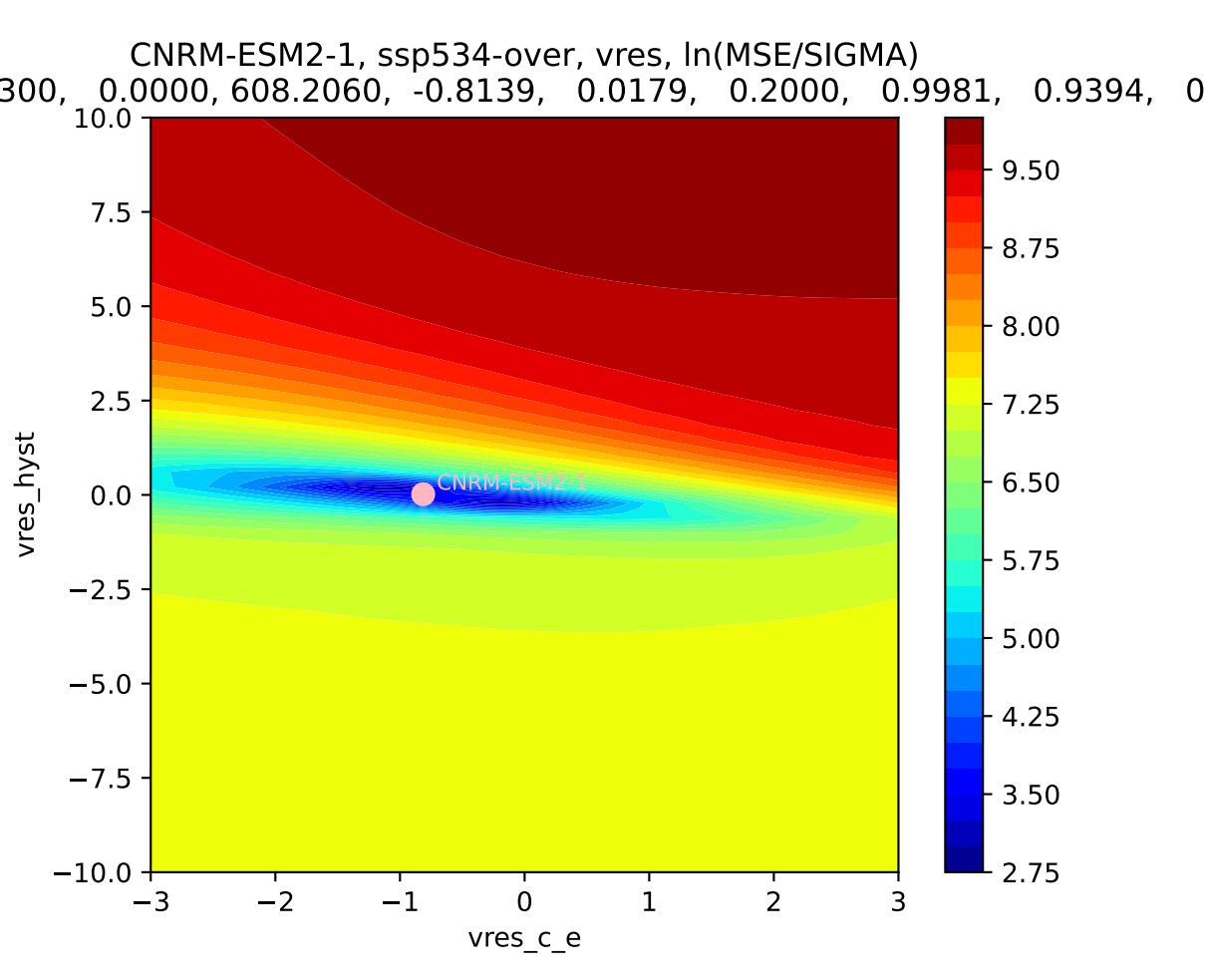

CNRM-ESM2-1, ssp534-over, vre
ESM-Fit
vres, ESM - FIT
ΔT


CNRM-ESM2-1, ssp534-over, vres
ESM
Fit
vres
c_atm


CNRM-ESM2-1, ssp534-over, vre
ESM-Fit
vres, ESM - FIT
c_atm


CNRM-ESM2-1, ssp534-over, vres, ln(MSE/SIGMA)
300, 0.0000, 608.2060, -0.8139, 0.0179, 0.2000, 0.9981, 0.9394, 0
CNRM-ESM2-1
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
9.3
8.1
6.9
5.7
4.5
3.3
2.1
0.9


CNRM-ESM2-1, ssp534-over, vres, ln(MSE/SIGMA)
300, 0.0000, 608.2060, -0.8139, 0.0179, 0.2000, 0.9981, 0.9394, 0
vres_c_half
vres_c_l
CNRM-ESM2-1
2000
1750
1500
1250
1000
750
500
250
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.0
6.2
5.4
4.6
3.8
3.0
2.2
1.4
0.6


CNRM-ESM2-1, ssp534-over, vres, ln(MSE/SIGMA)
300, 0.0000, 608.2060, -0.8139, 0.0179, 0.2000, 0.9981, 0.9394, 0
CNRM-ESM2-1
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
9.50
8.75
8.00
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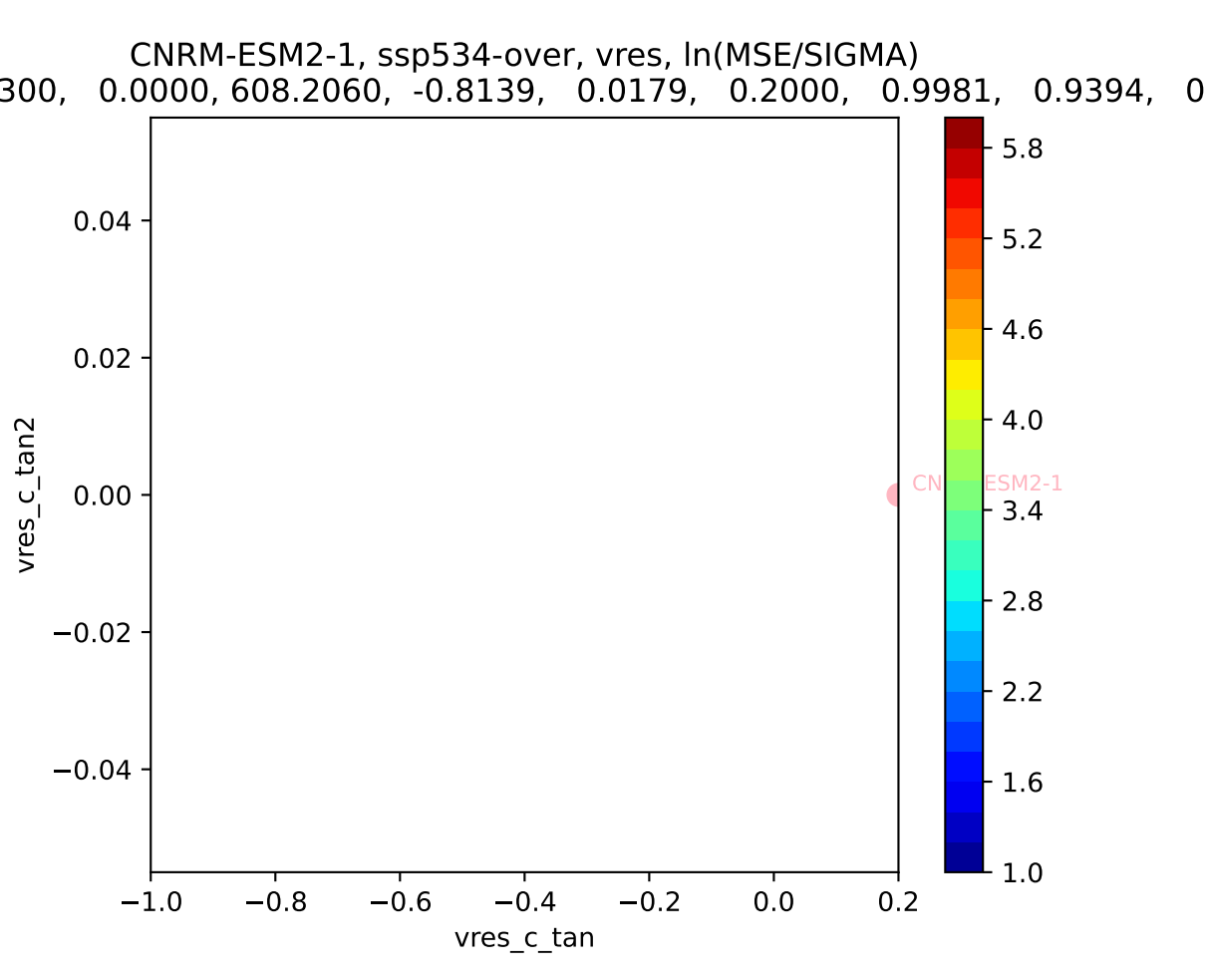
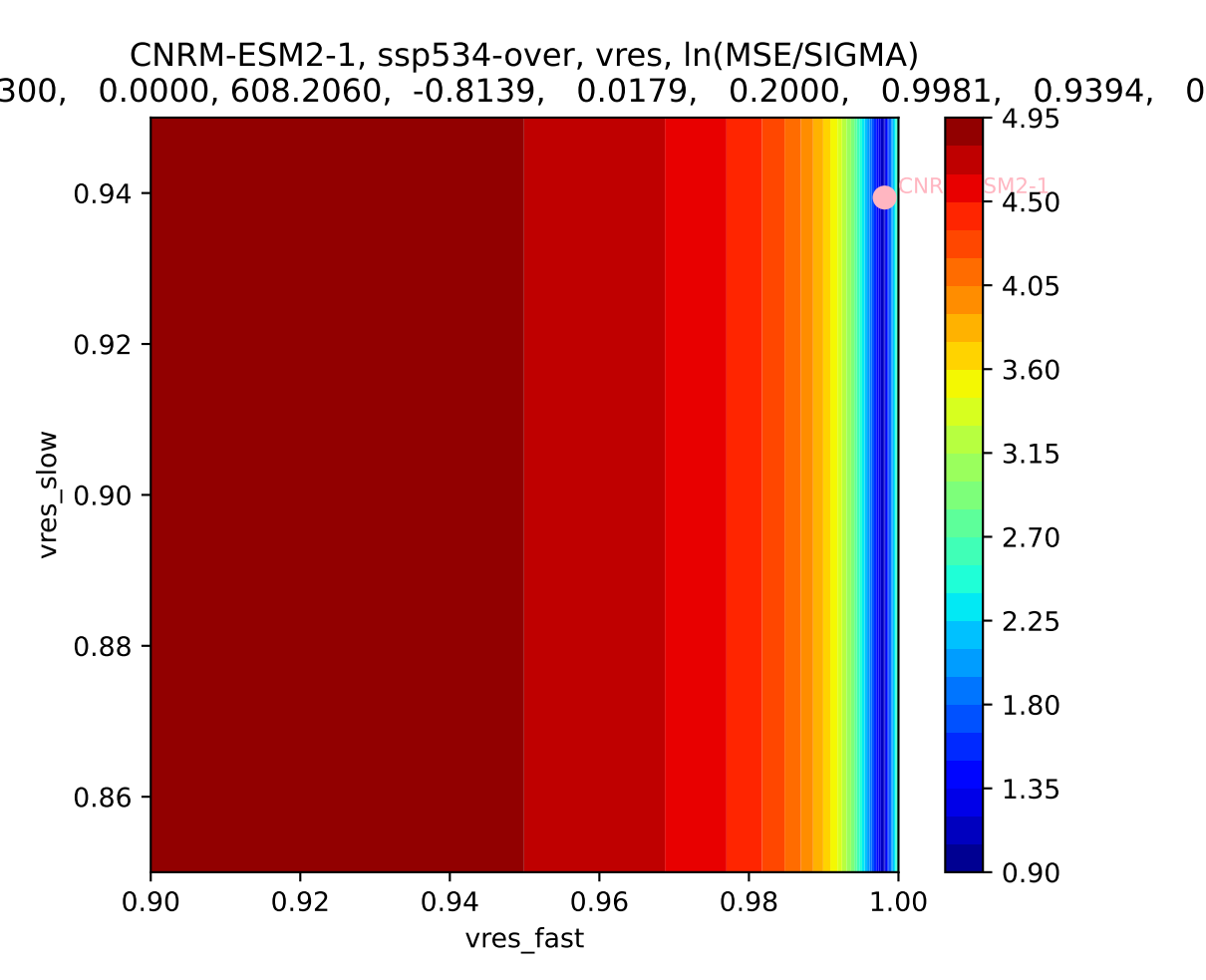
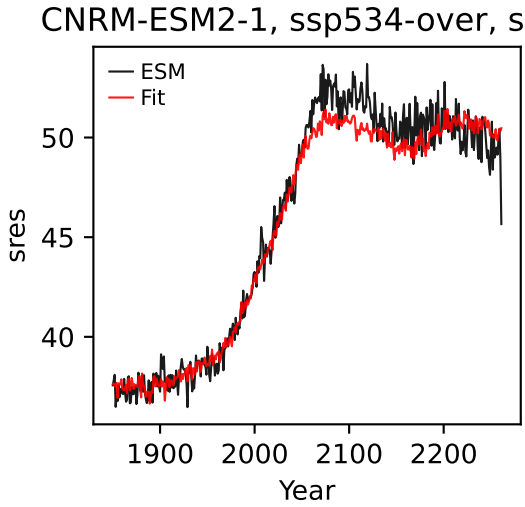
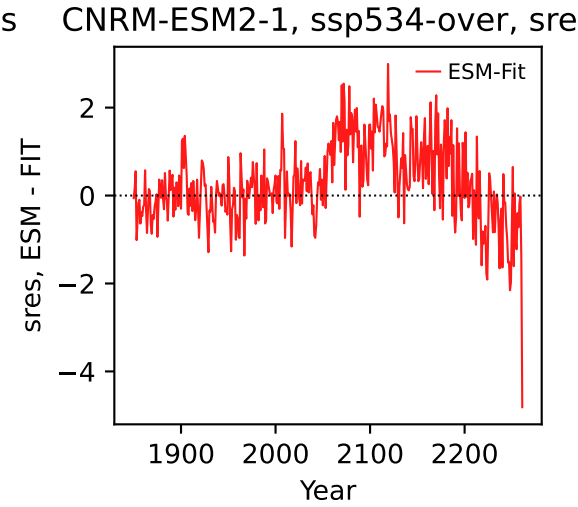
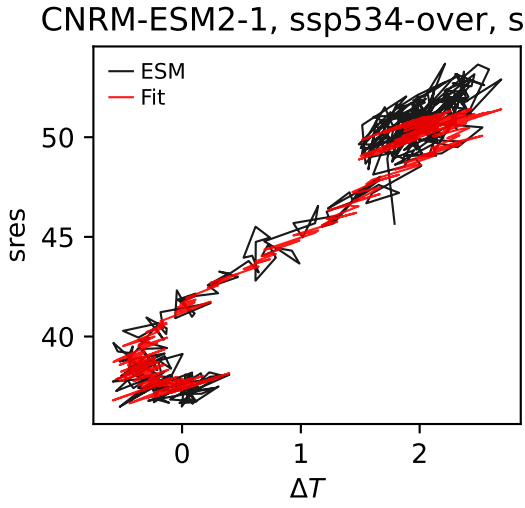
4.25
3.50
2.75

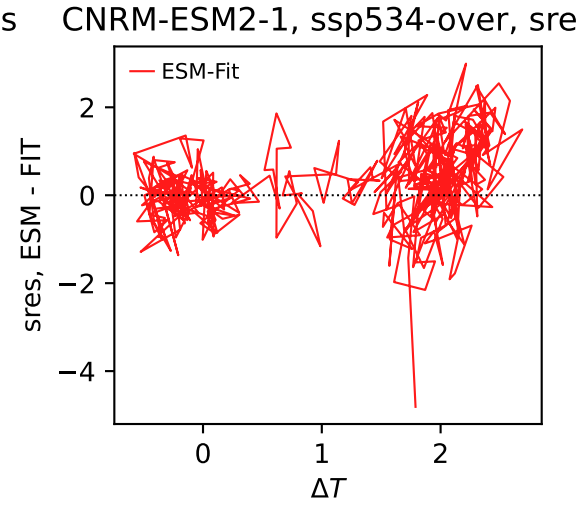

CNRM-ESM2-1, ssp534-over, vres, ln(MSE/SIGMA)
300, 0.0000, 608.2060, -0.8139, 0.0179, 0.2000, 0.9981, 0.9394, 0
0.04
0.02
0.00
−0.02
−0.04
vres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
vres_c_tan
5.8
5.2
4.6
4.0
3.4
2.8
2.2
1.6
1.0

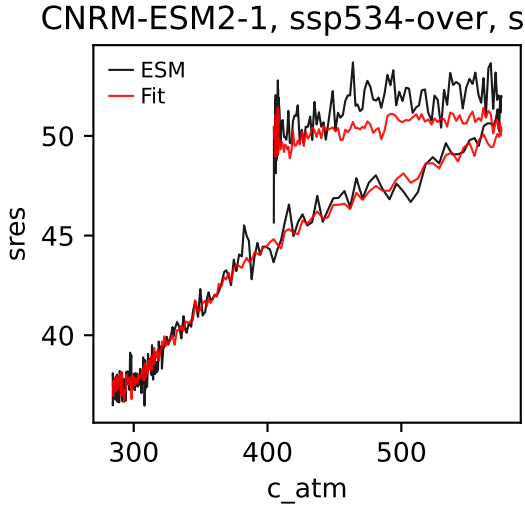

CNRM-ESM2-1, ssp534-over, vres, ln(MSE/SIGMA)
300, 0.0000, 608.2060, -0.8139, 0.0179, 0.2000, 0.9981, 0.9394, 0
CNRM-ESM2-1
vres_slow
vres_fast
0.94
0.92
0.90
0.88
0.86
0.90
0.92
0.94
0.96
0.98
1.00
4.95
4.50
4.05
3.60
3.15
2.70
2.25
1.80
1.35
0.90

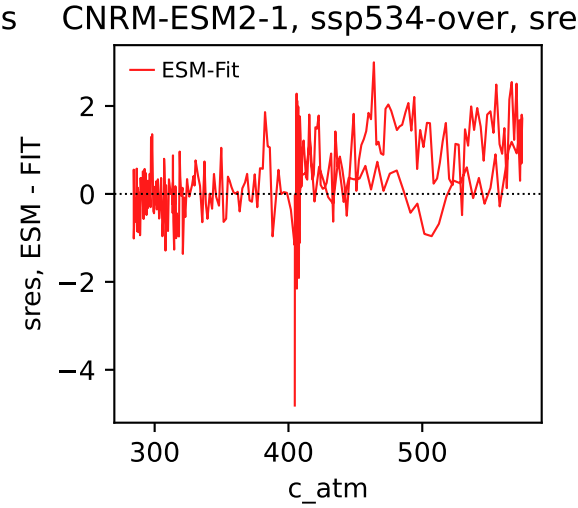

CNRM-ESM2-1, ssp534-over, sres
ESM
Fit
sres
Year

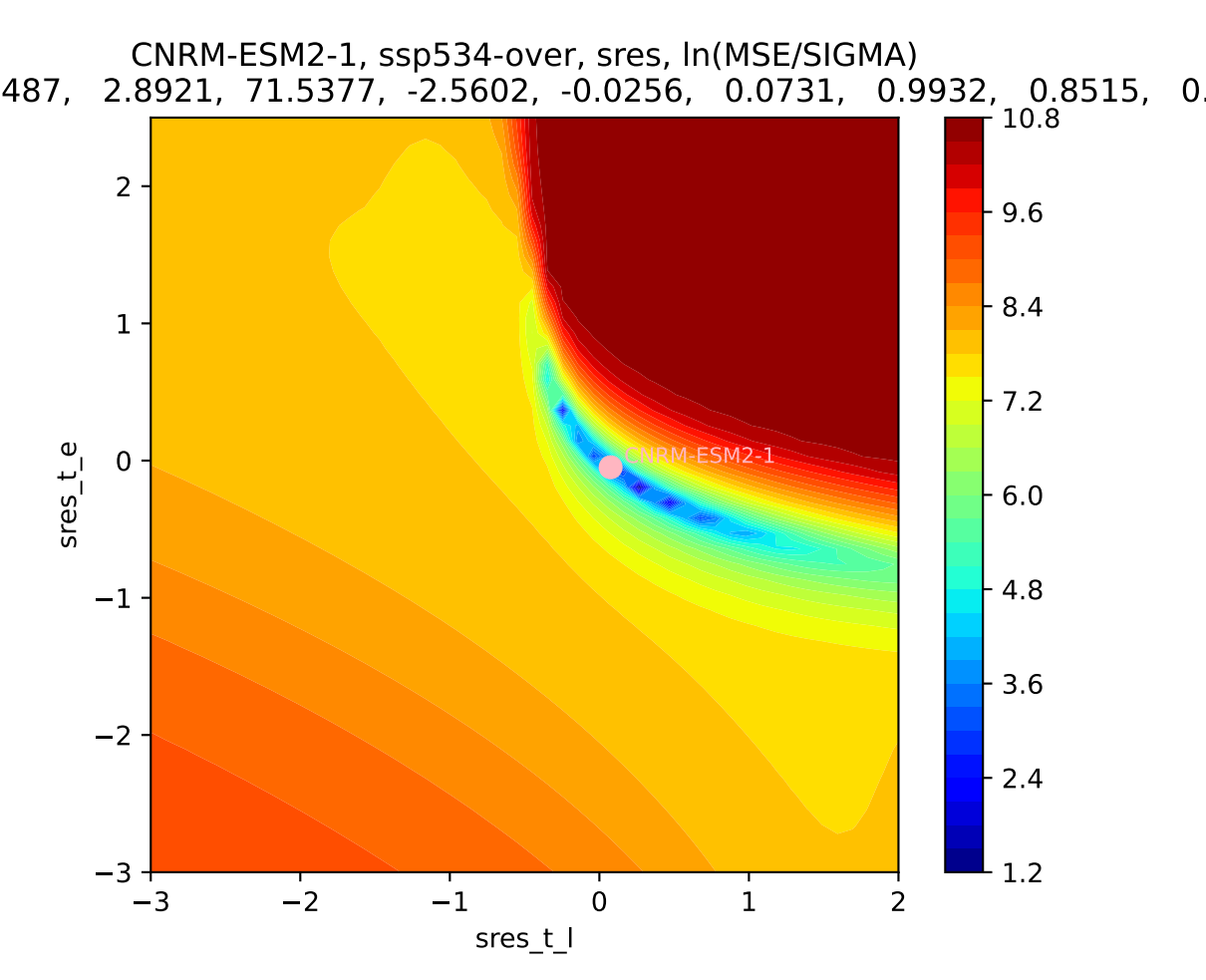

CNRM-ESM2-1, ssp534-over, sre
ESM-Fit
sres, ESM - FIT
Year

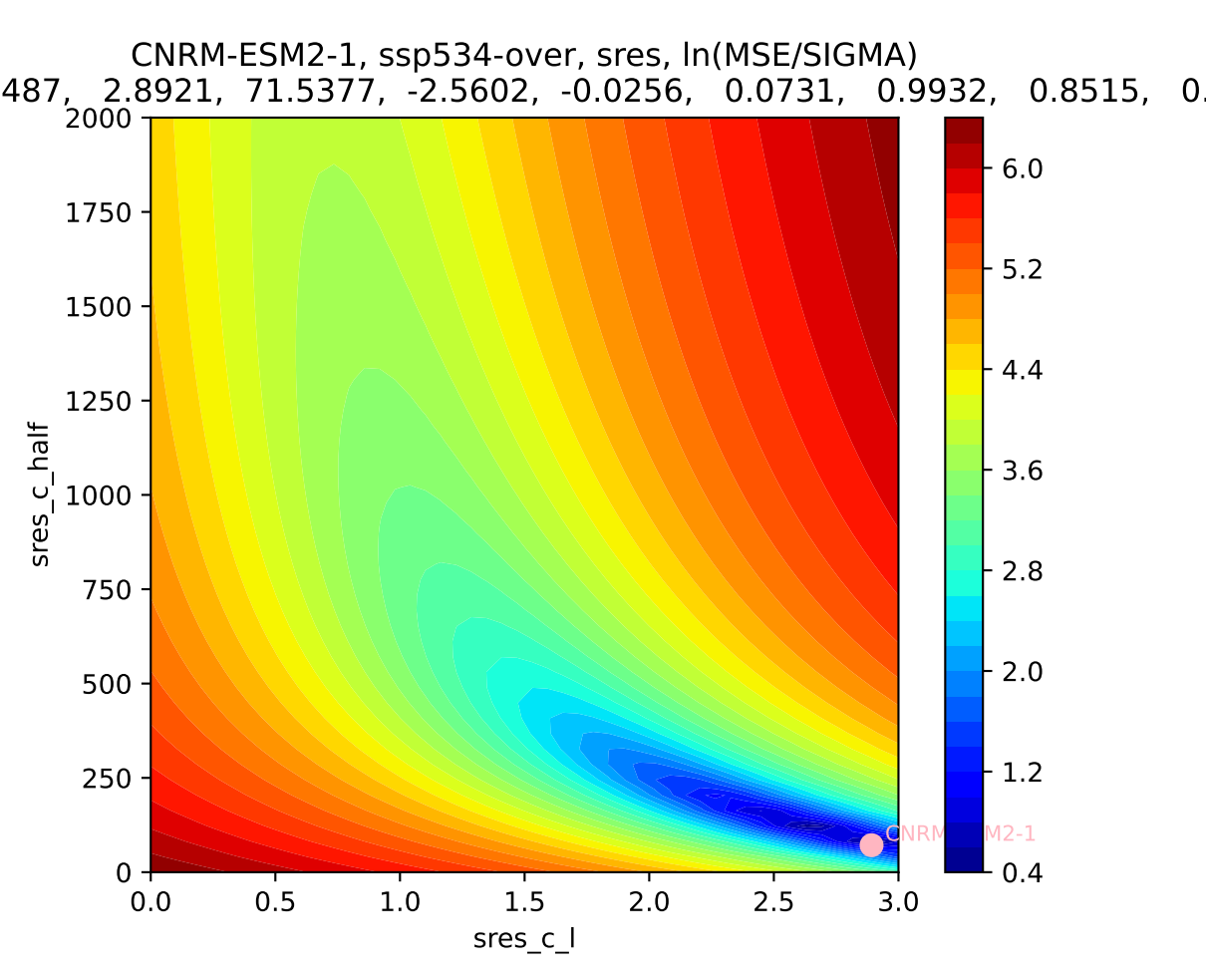

CNRM-ESM2-1, ssp534-over, sres
ESM
Fit
sres
ΔT

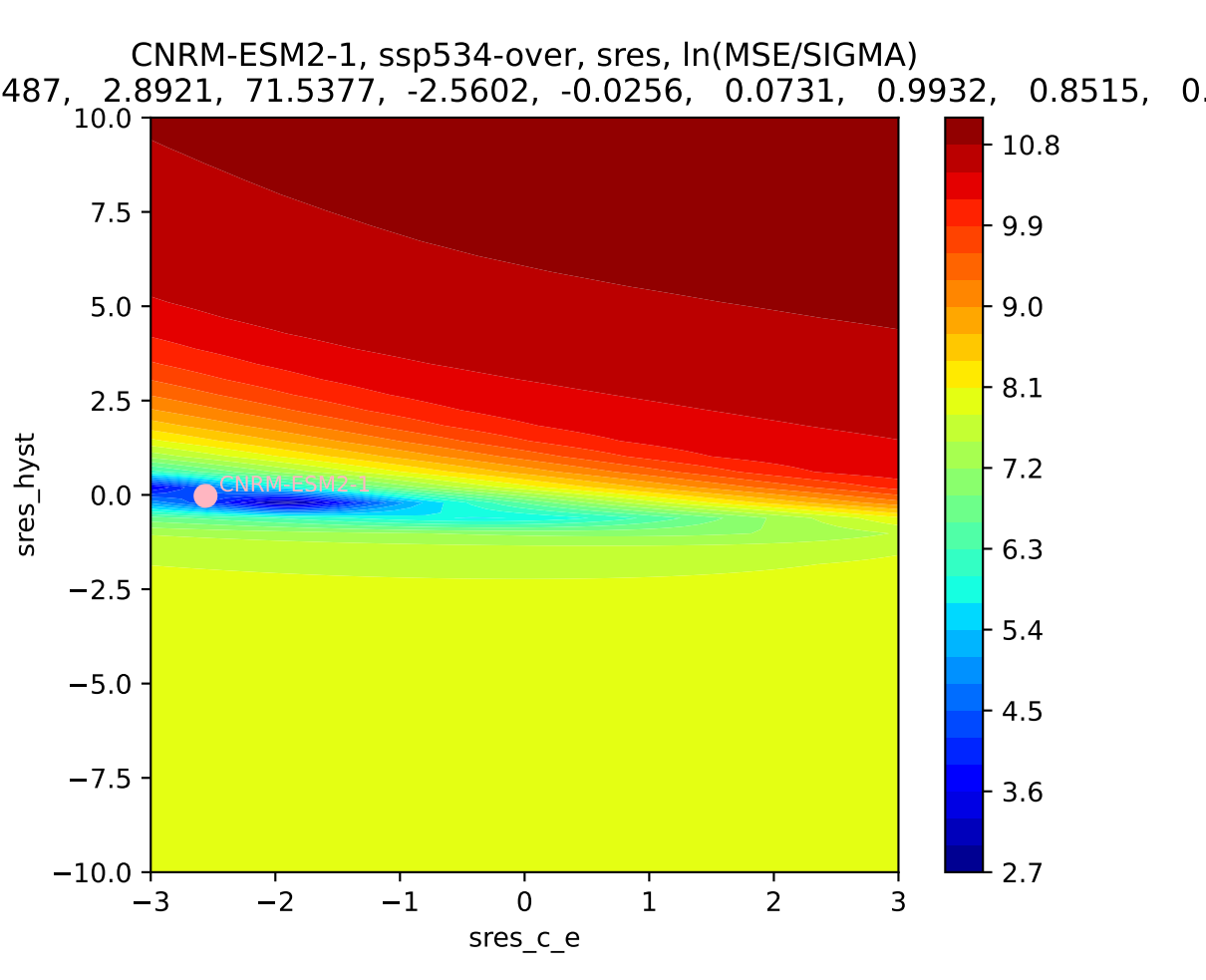

CNRM-ESM2-1, ssp534-over, sre
ESM-Fit
sres, ESM - FIT
ΔT

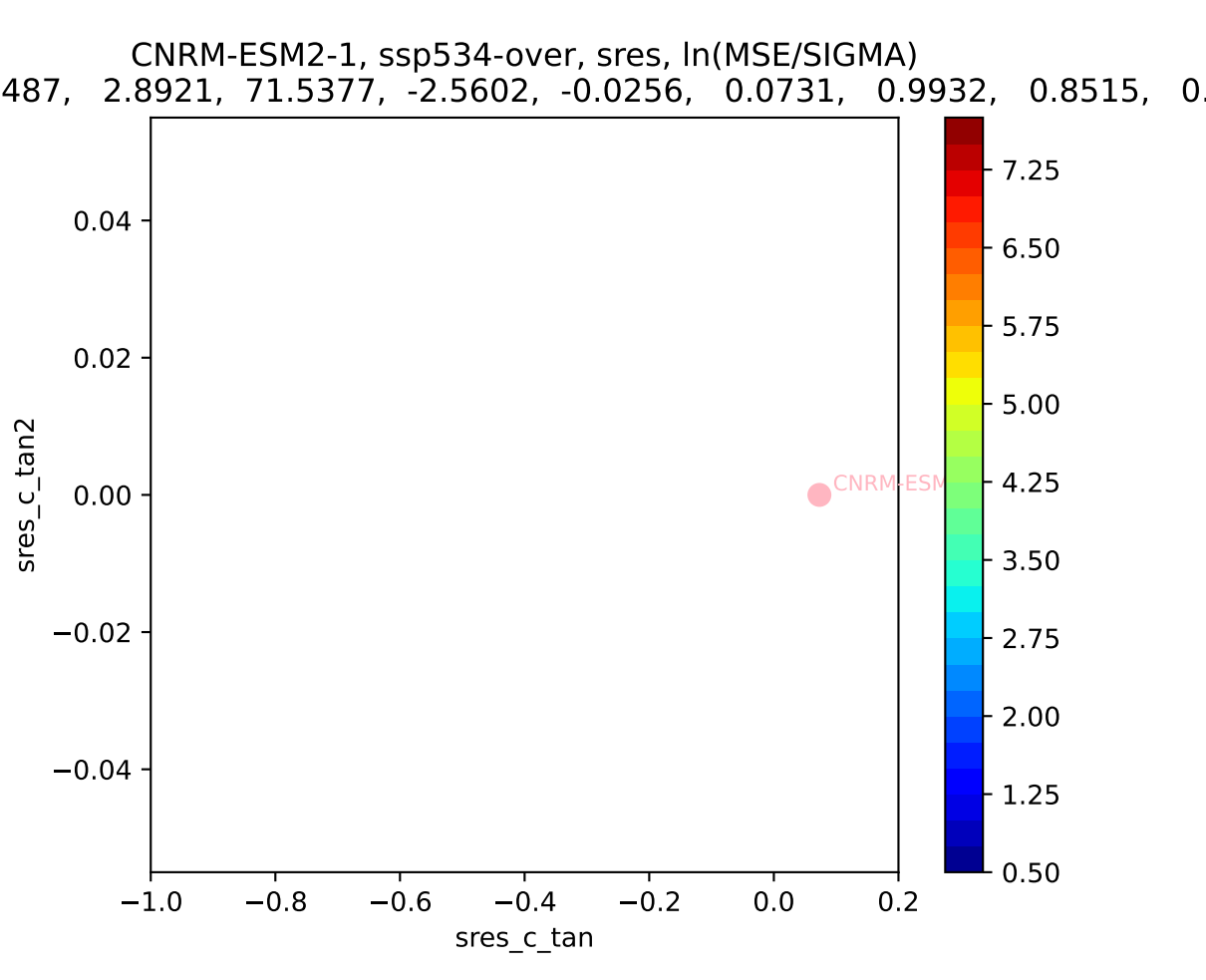

CNRM-ESM2-1, ssp534-over, sres
ESM
Fit
sres
c_atm

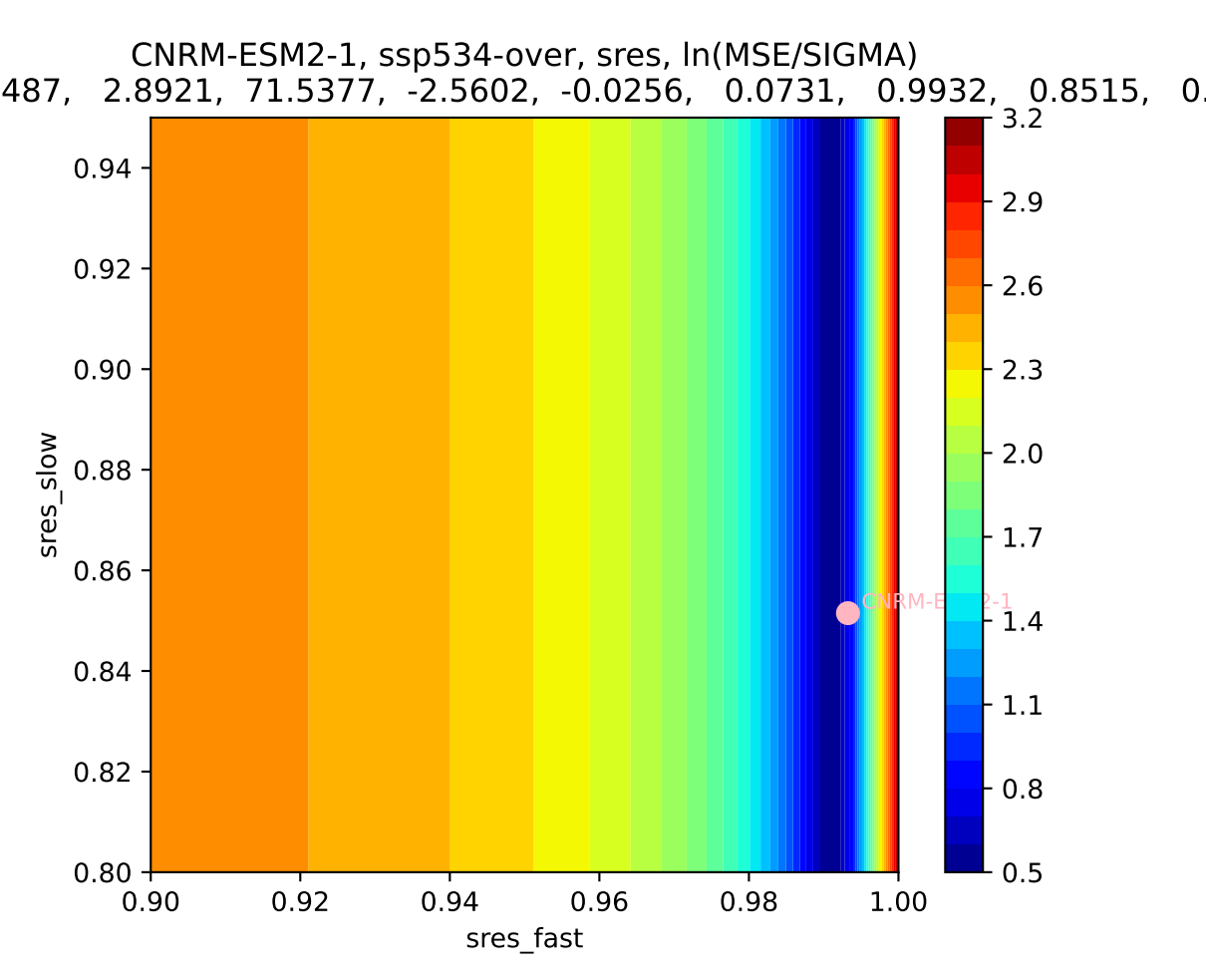

CNRM-ESM2-1, ssp534-over, sre
ESM-Fit
sres, ESM - FIT
c_atm

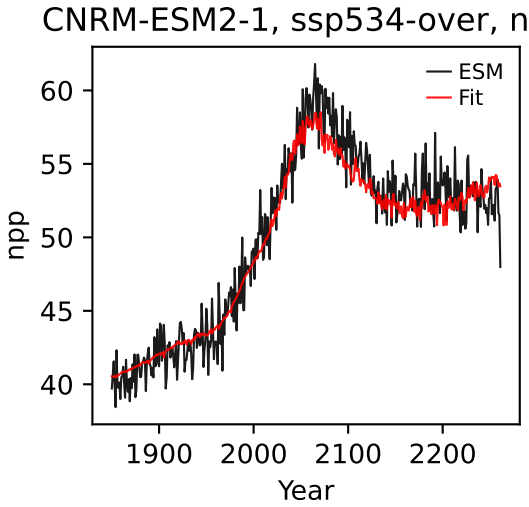

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8921, 71.5377, -2.5602, -0.0256, 0.0731, 0.9932, 0.8515, 0.
CNRM-ESM2-1
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

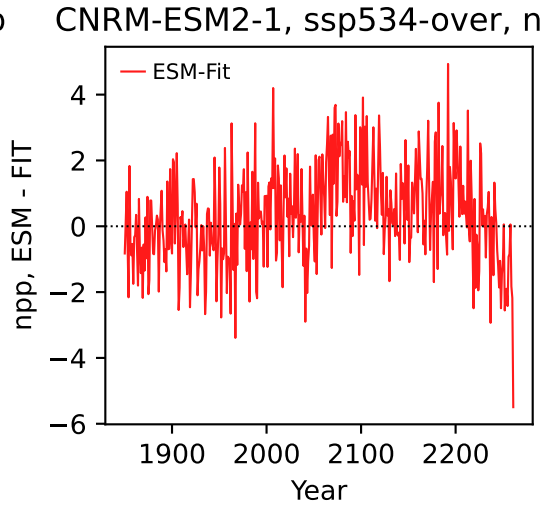

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8921, 71.5377, -2.5602, -0.0256, 0.0731, 0.9932, 0.8515, 0.
sres_c_half
sres_c_l
2000
1750
1500
1250
1000
750
500
250
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
6.0
5.2
4.4
3.6
2.8
2.0
1.2
0.4
CNRM-ESM2-1

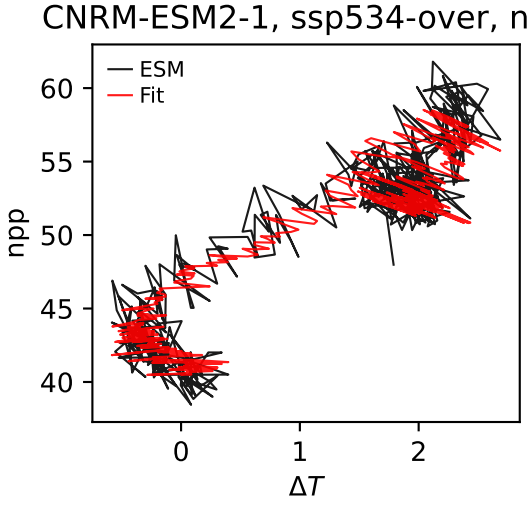

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8921, 71.5377, -2.5602, -0.0256, 0.0731, 0.9932, 0.8515, 0.
CNRM-ESM2-1
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.8
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7

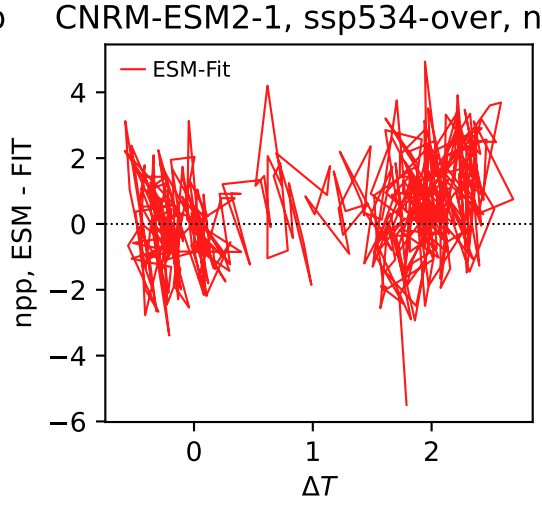

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8921, 71.5377, -2.5602, -0.0256, 0.0731, 0.9932, 0.8515, 0.
0.04
0.02
0.00
−0.02
−0.04
sres_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
sres_c_tan
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00
1.25
0.50

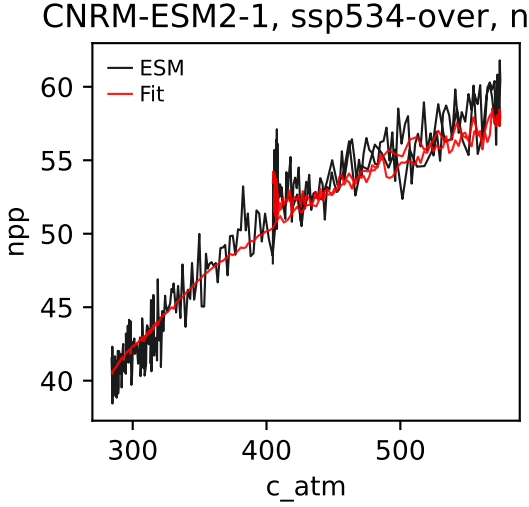

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8921, 71.5377, -2.5602, -0.0256, 0.0731, 0.9932, 0.8515, 0.
sres_slow
sres_fast
0.80
0.82
0.84
0.86
0.88
0.90
0.92
0.94
0.90
0.92
0.94
0.96
0.98
1.00
3.2
2.9
2.6
2.3
2.0
1.7
1.4
1.1
0.8
0.5

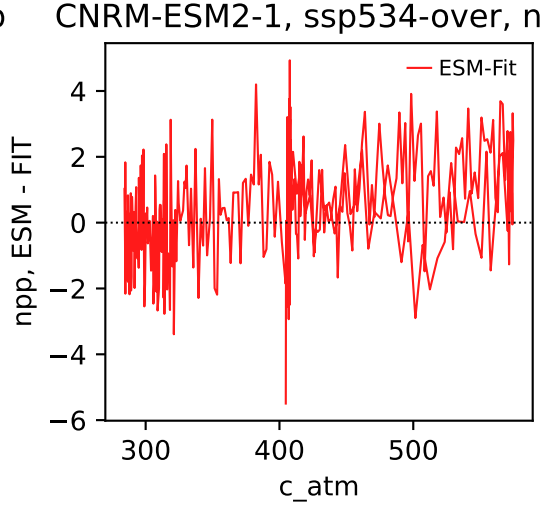

CNRM-ESM2-1, ssp534-over, npp
ESM
Fit
npp
Year

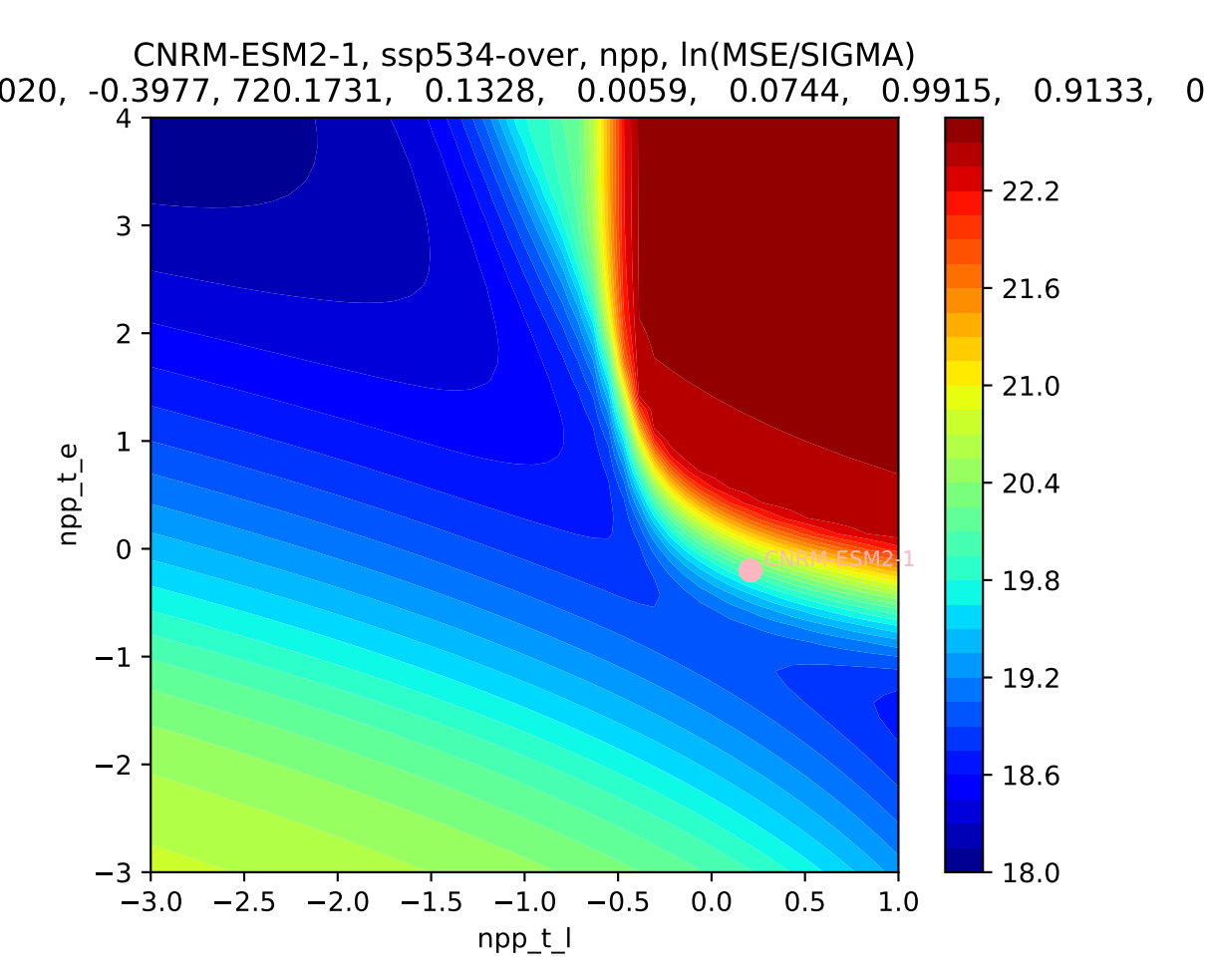

CNRM-ESM2-1, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
Year

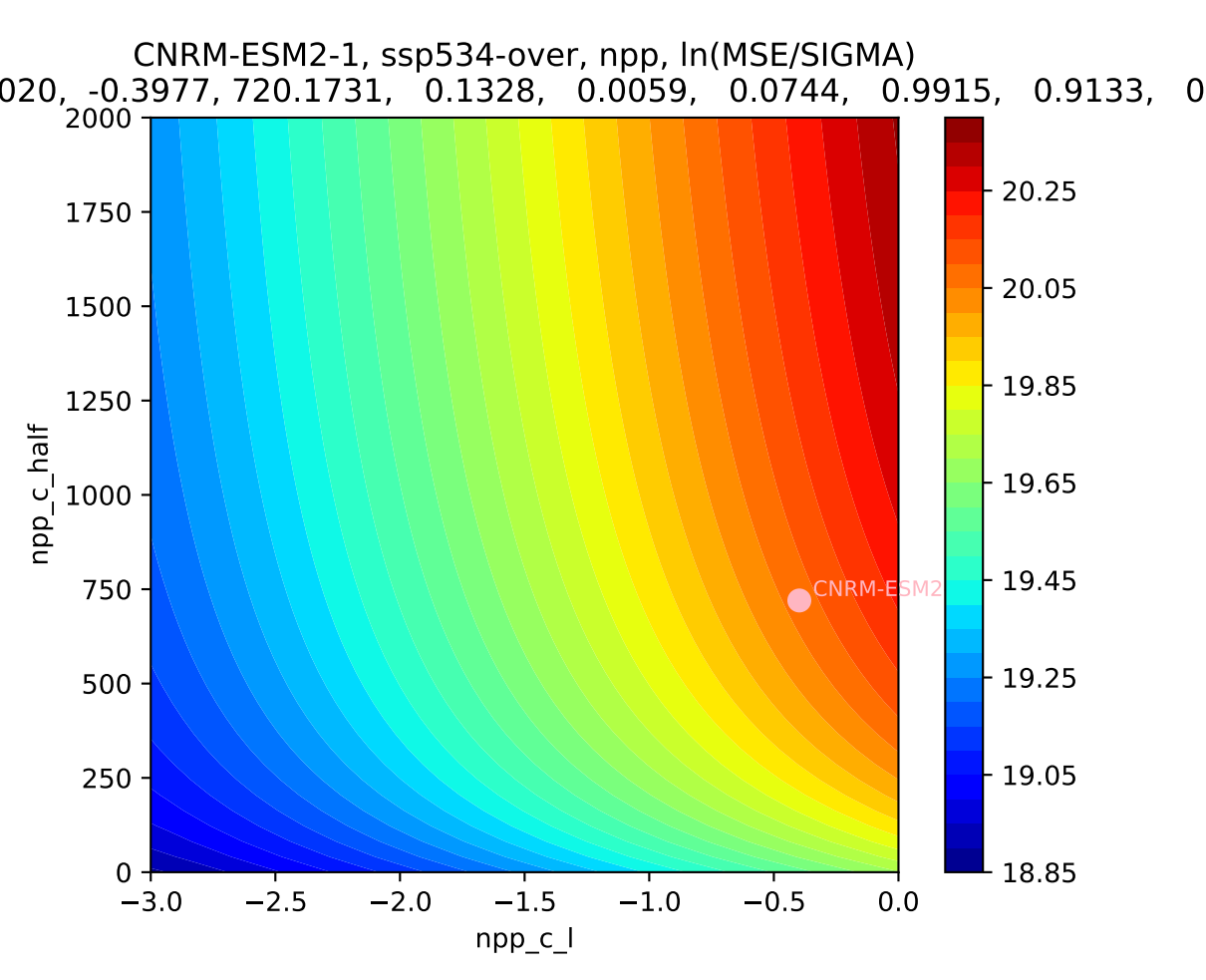

CNRM-ESM2-1, ssp534-over, npp
ESM
Fit
npp
ΔT

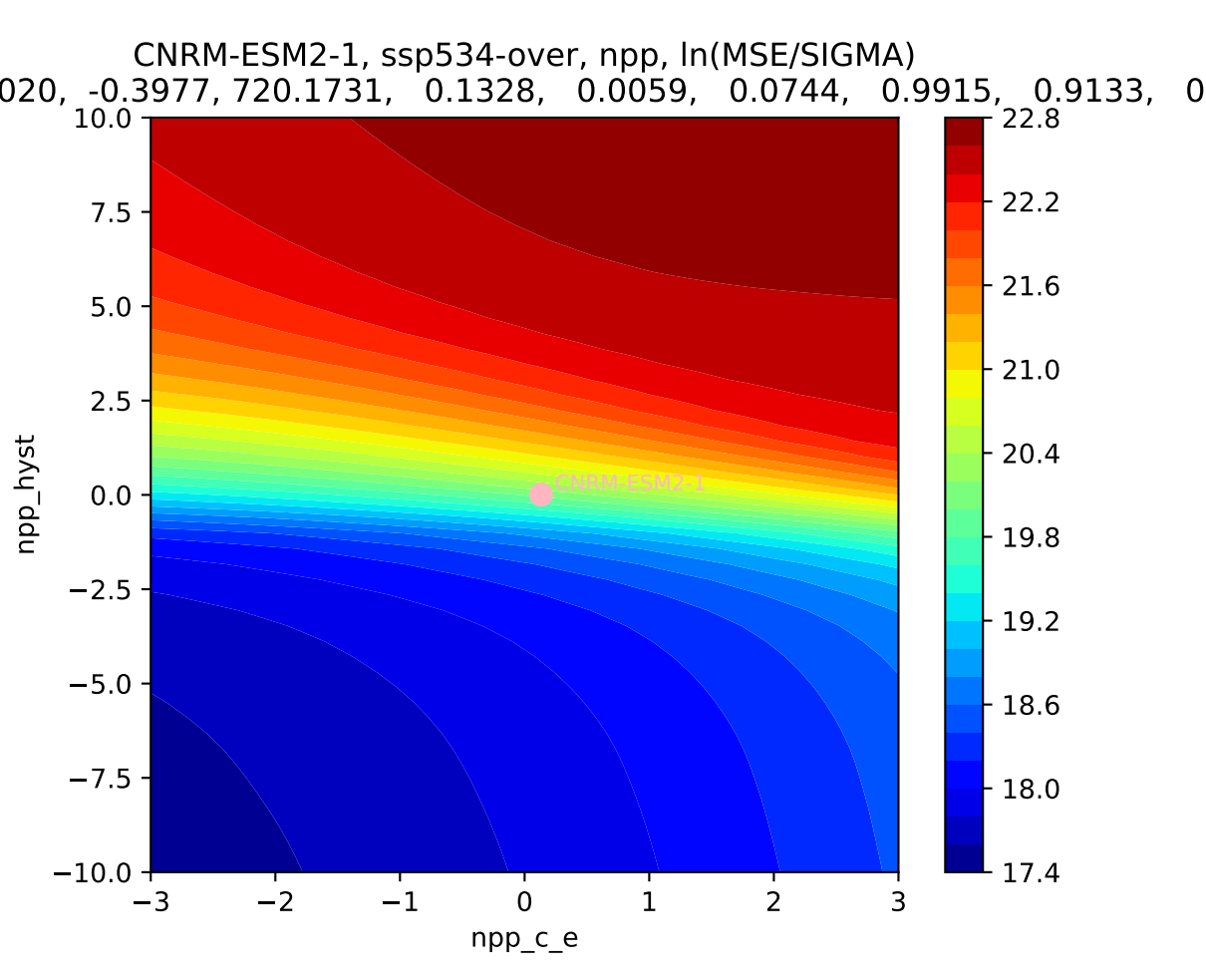

CNRM-ESM2-1, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
ΔT

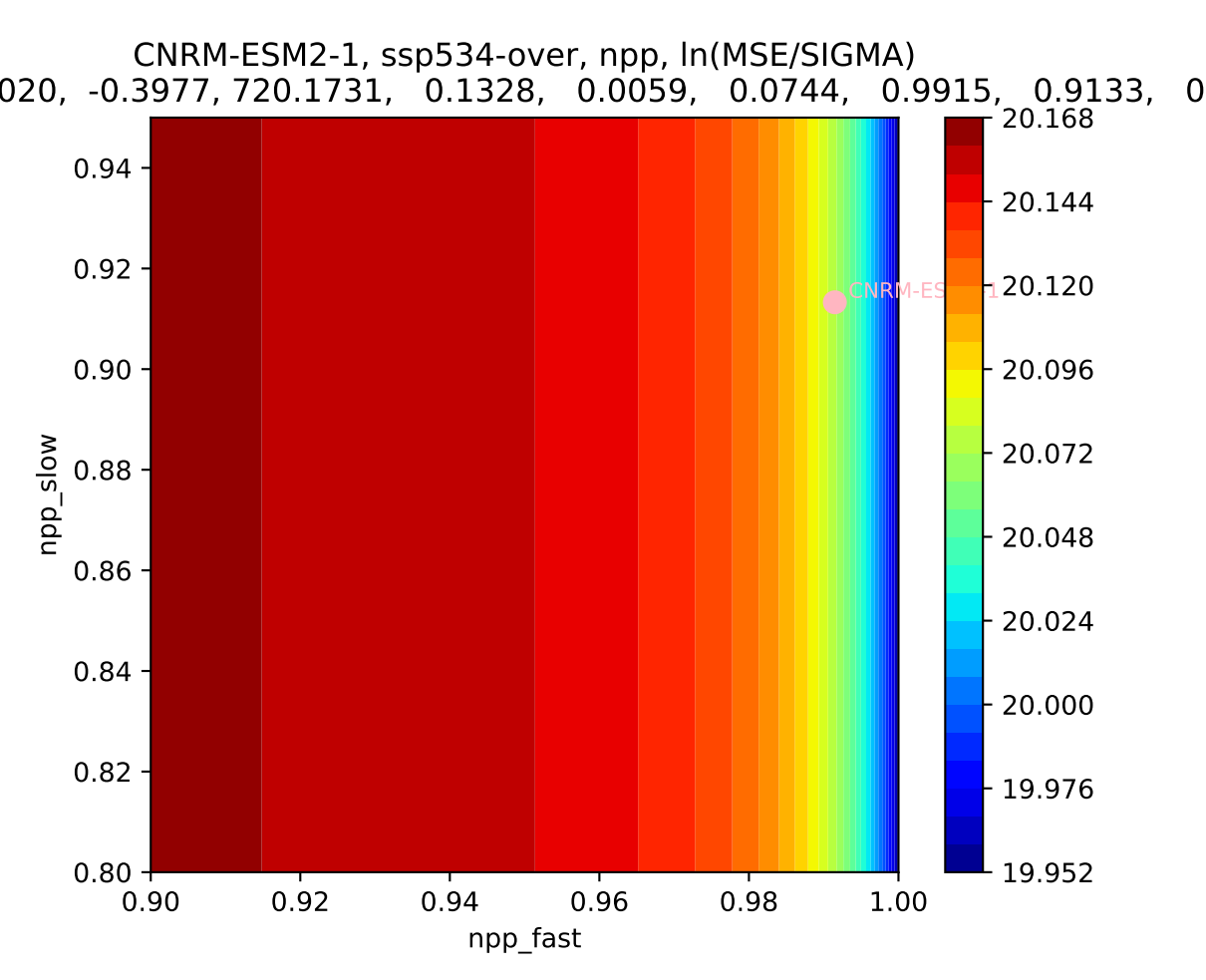

CNRM-ESM2-1, ssp534-over, npp
ESM
Fit
npp
c_atm

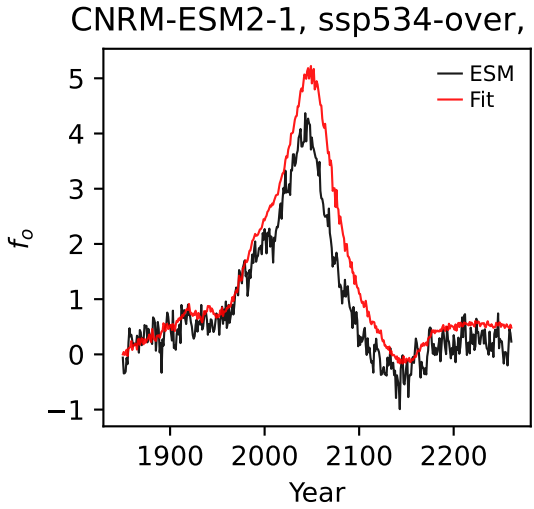

CNRM-ESM2-1, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
c_atm

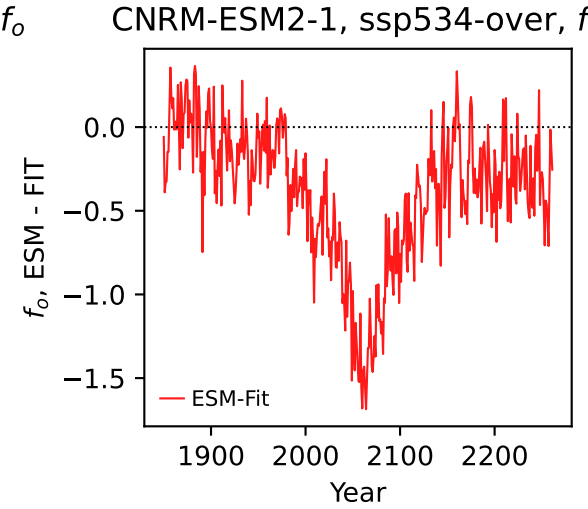

CNRM-ESM2-1, ssp534-over, npp, ln(MSE/SIGMA)
020, -0.3977, 720.1731, 0.1328, 0.0059, 0.0744, 0.9915, 0.9133, 0
npp_t_e
npp_t_l
CNRM-ESM2-1
4
3
2
1
0
−1
−2
−3
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0

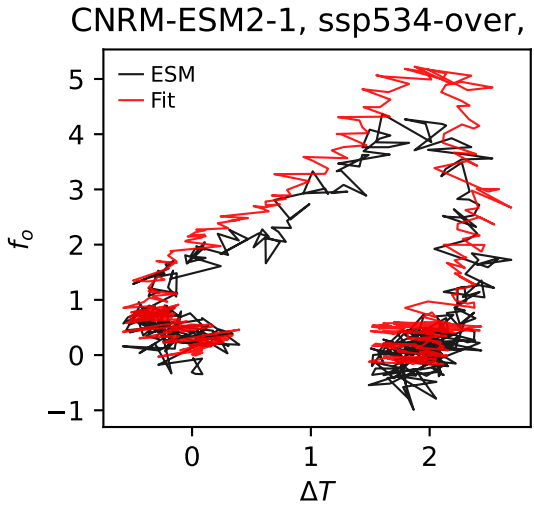

CNRM-ESM2-1, ssp534-over, npp, ln(MSE/SIGMA)
020, -0.3977, 720.1731, 0.1328, 0.0059, 0.0744, 0.9915, 0.9133, 0
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
npp_c_l
CNRM-ESM2
20.25
20.05
19.85
19.65
19.45
19.25
19.05
18.85

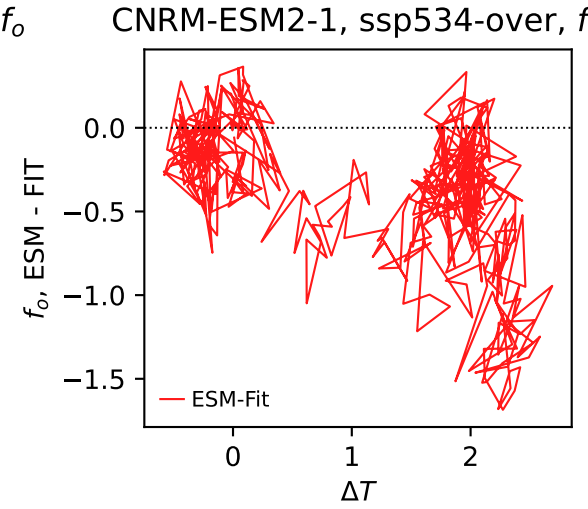

CNRM-ESM2-1, ssp534-over, npp, ln(MSE/SIGMA)
020, -0.3977, 720.1731, 0.1328, 0.0059, 0.0744, 0.9915, 0.9133, 0
CNRM-ESM2-1
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.8
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0
17.4

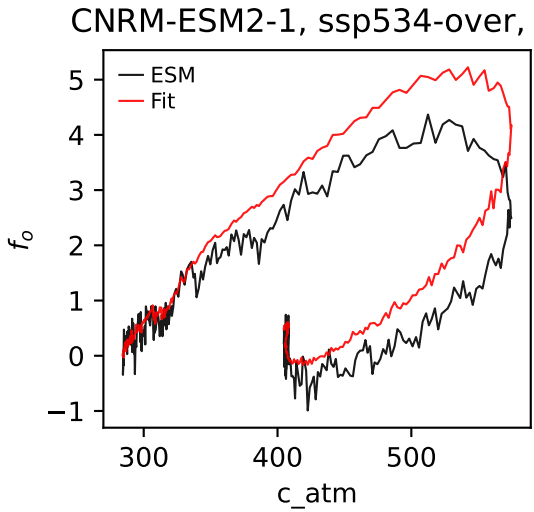

CNRM-ESM2-1, ssp534-over, npp, ln(MSE/SIGMA)
020, -0.3977, 720.1731, 0.1328, 0.0059, 0.0744, 0.9915, 0.9133, 0
CNRM-ES
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
20.168
20.144
20.120
20.096
20.072
20.048
20.024
20.000
19.976
19.952

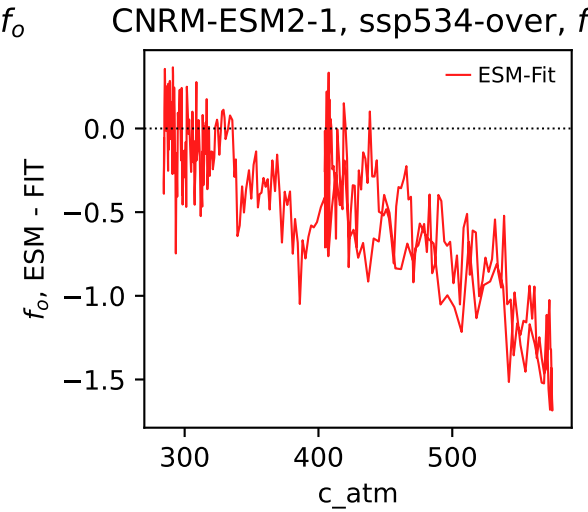

CNRM-ESM2-1, ssp534-over, f_o
ESM
Fit
f_o
Year

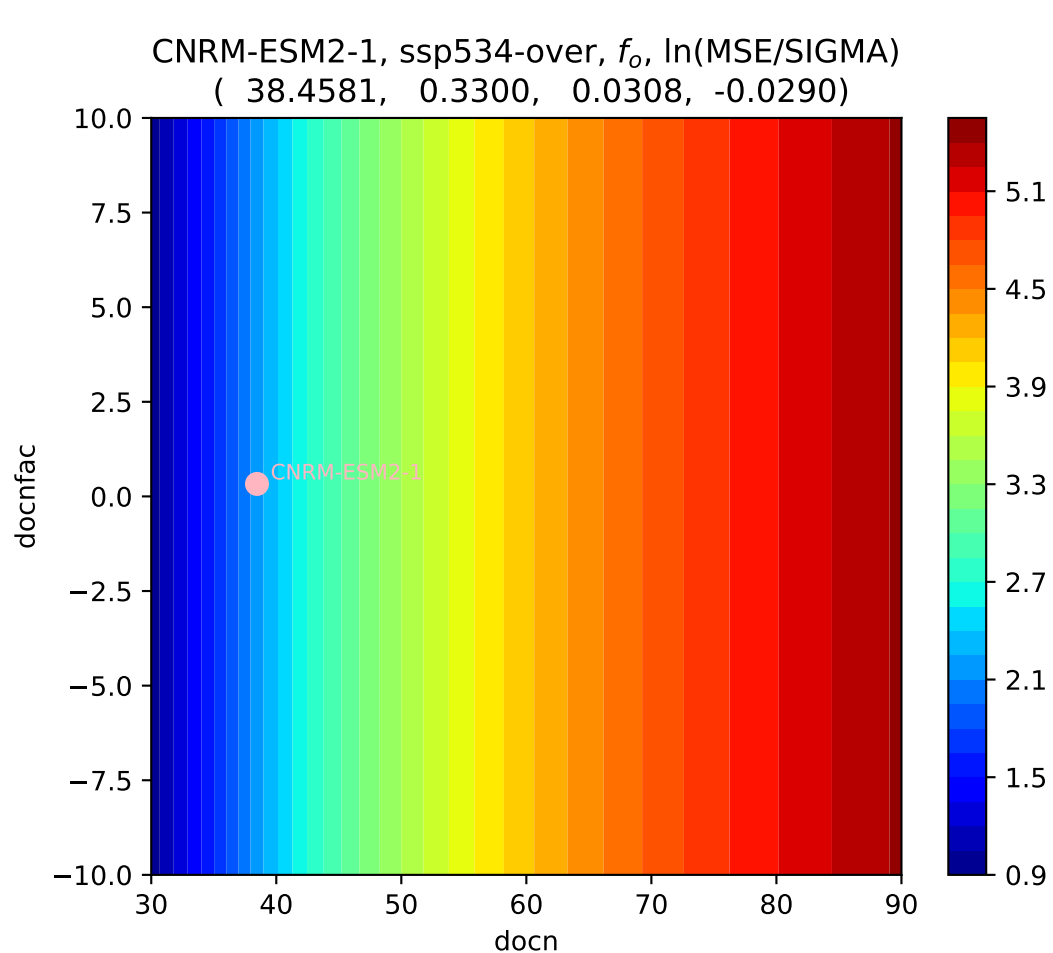

CNRM-ESM2-1, ssp534-over, f_o
f_o, ESM - FIT
ESM-Fit
Year

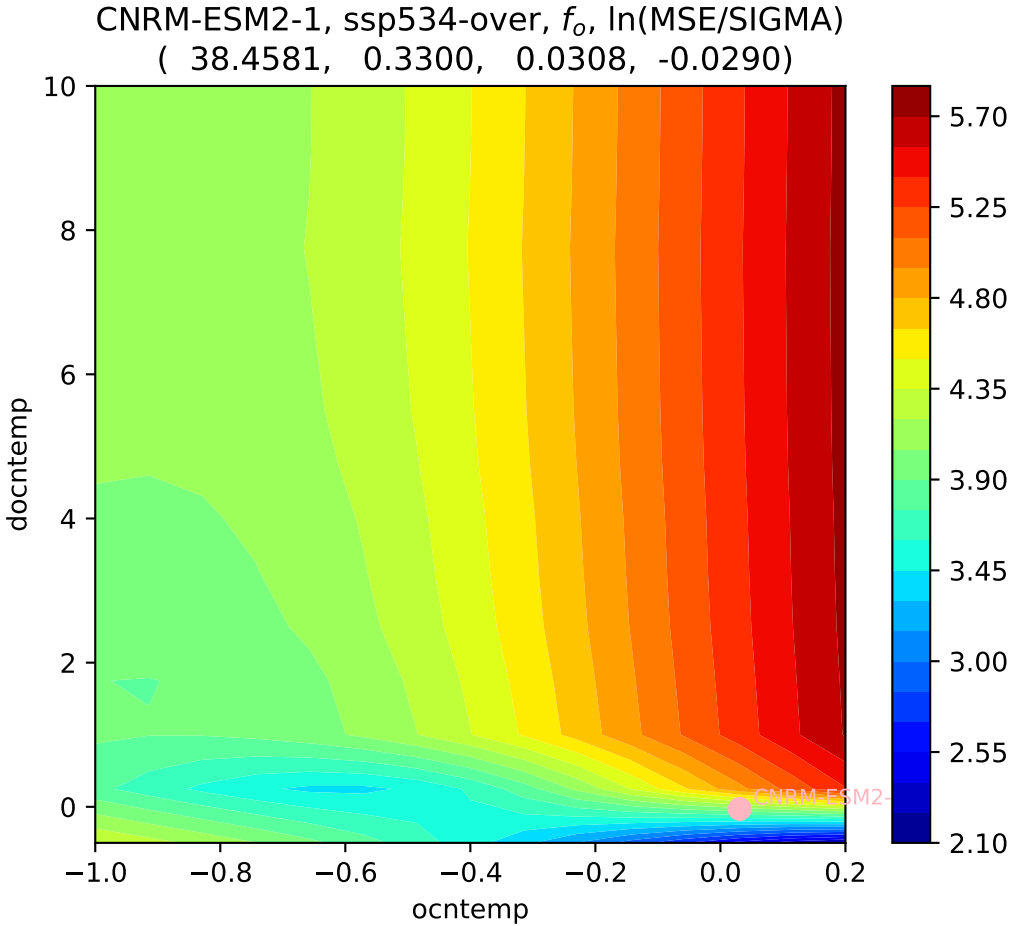

CNRM-ESM2-1, ssp534-over, f_o
ESM
Fit
f_o
ΔT


CNRM-ESM2-1, ssp534-over, f_o
f_o, ESM - FIT
ESM-Fit
ΔT


CNRM-ESM2-1, ssp534-over, f_o
ESM
Fit
f_o
c_atm


CNRM-ESM2-1, ssp534-over, f_o
f_o, ESM - FIT
ESM-Fit
c_atm


CNRM-ESM2-1, ssp534-over, f_o, ln(MSE/SIGMA)
(38.4581, 0.3300, 0.0308, -0.0290)
CNRM-ESM2-1
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
5.1
4.5
3.9
3.3
2.7
2.1
1.5
0.9


CNRM-ESM2-1, ssp534-over, f_o, ln(MSE/SIGMA)
(38.4581, 0.3300, 0.0308, -0.0290)
10
8
6
4
2
0
docntemp
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
ocntemp
5.70
5.25
4.80
4.35
3.90
3.45
3.00
2.55
2.10
CNRM-ESM2-