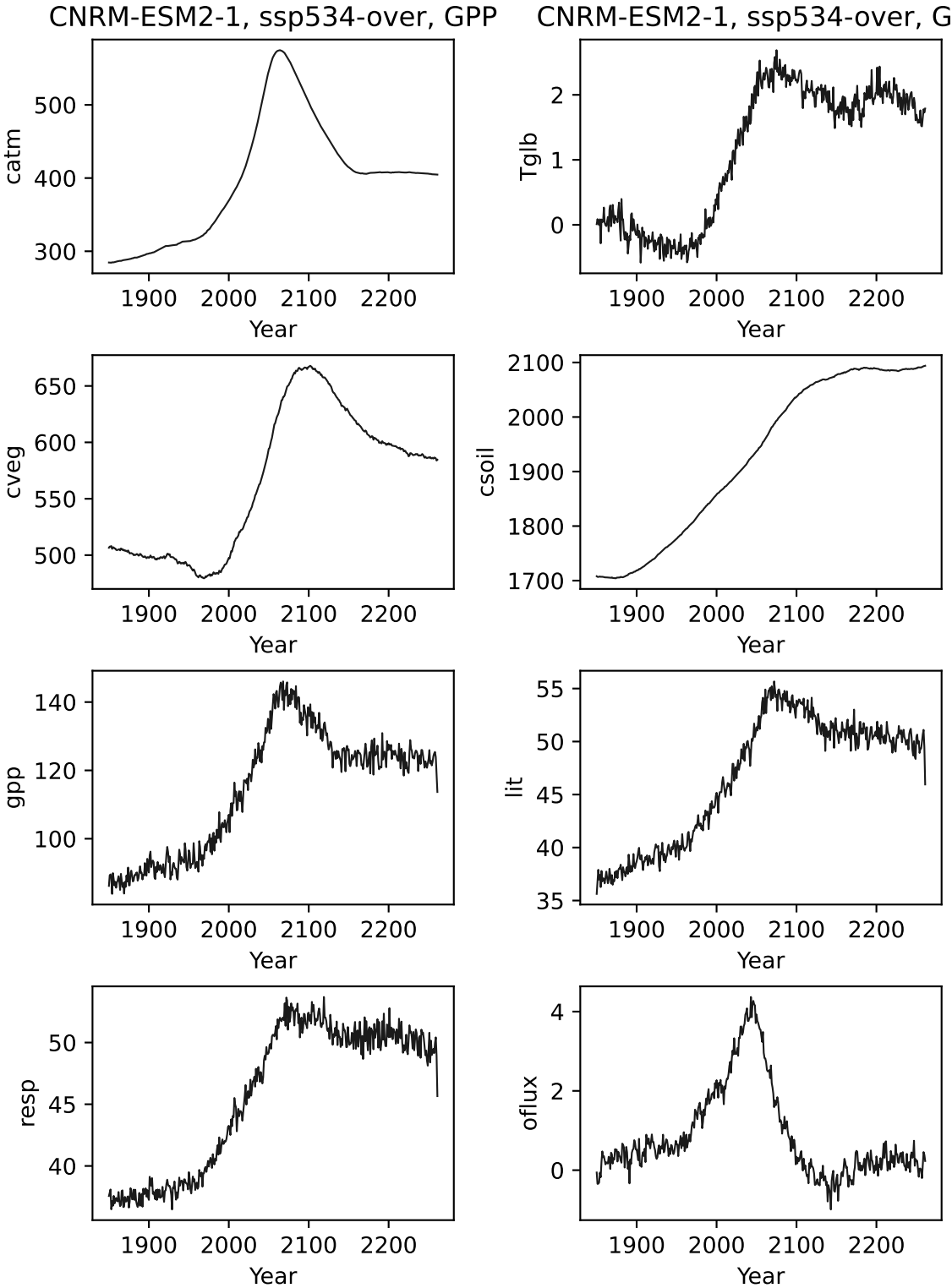
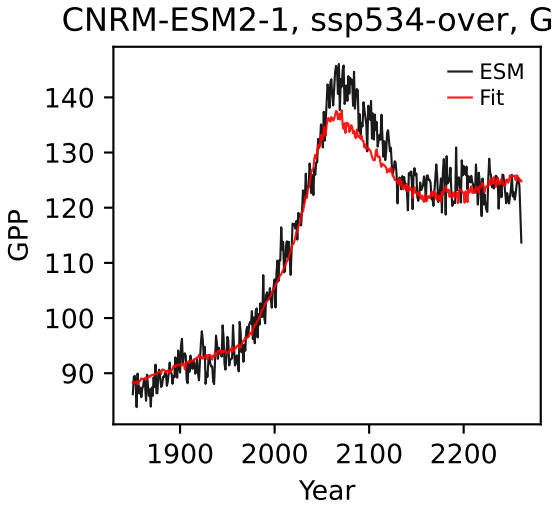
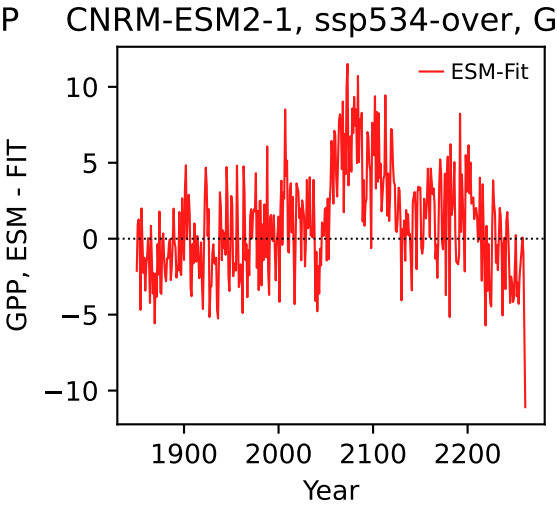
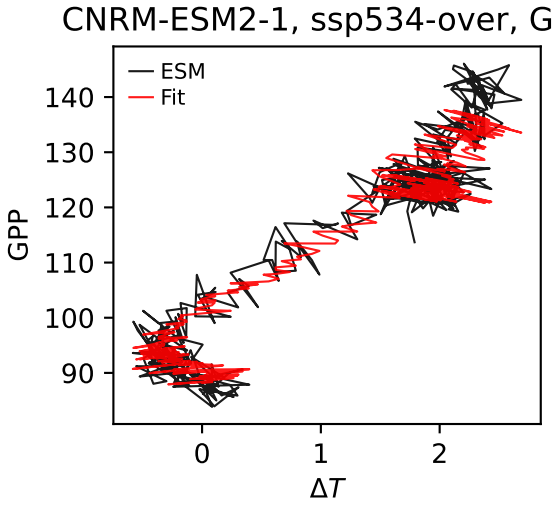
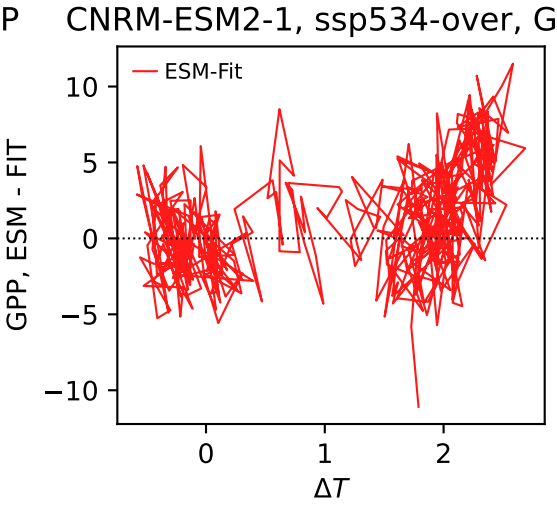
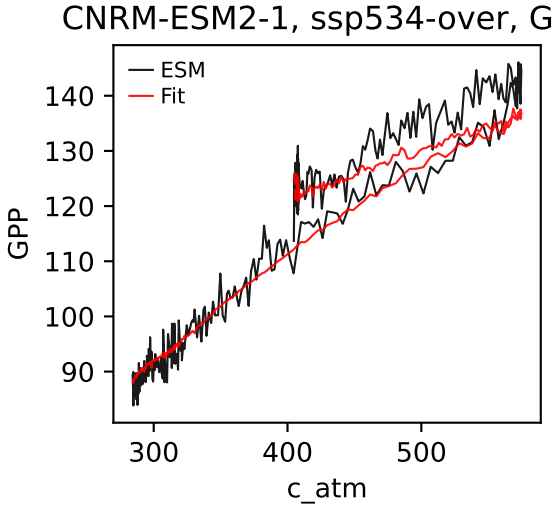

CNRM-ESM2-1, ssp534-over, GPP
CNRM-ESM2-1, ssp534-over, GPP
catm
Tglb
cveg
csoil
gpp
lit
resp
oflux
Year

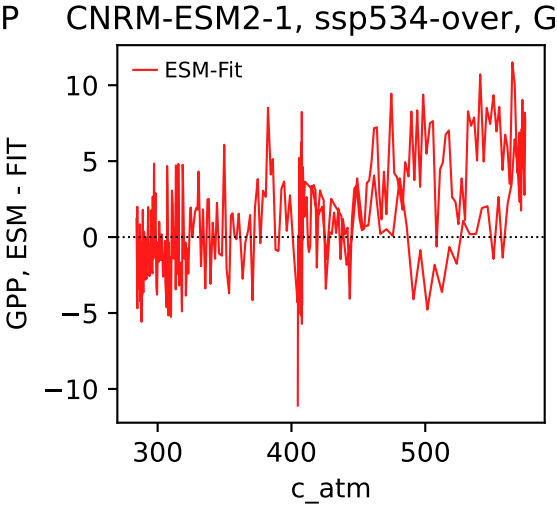

CNRM-ESM2-1, ssp534-over, GPP
ESM
Fit
GPP
Year

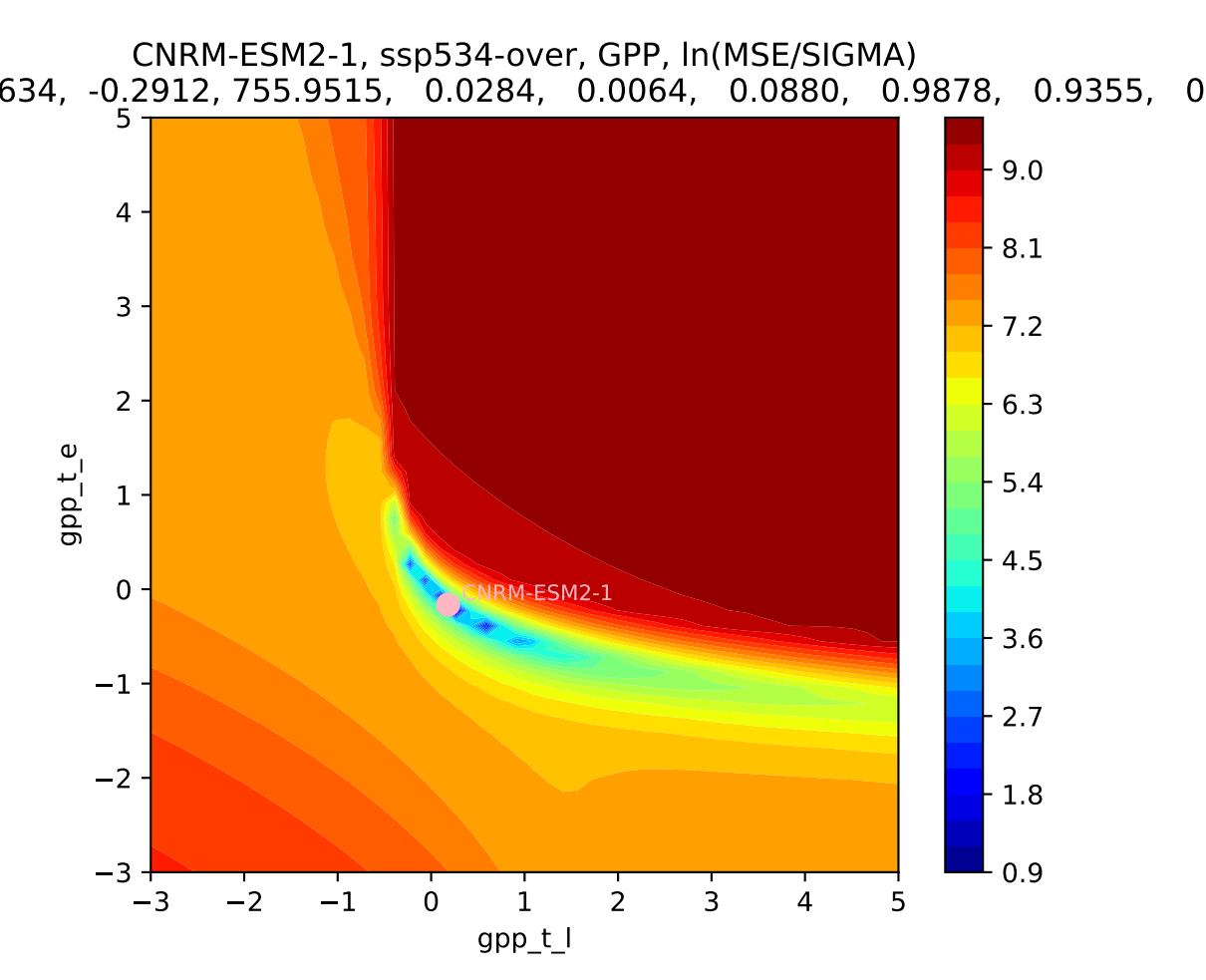

CNRM-ESM2-1, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
Year

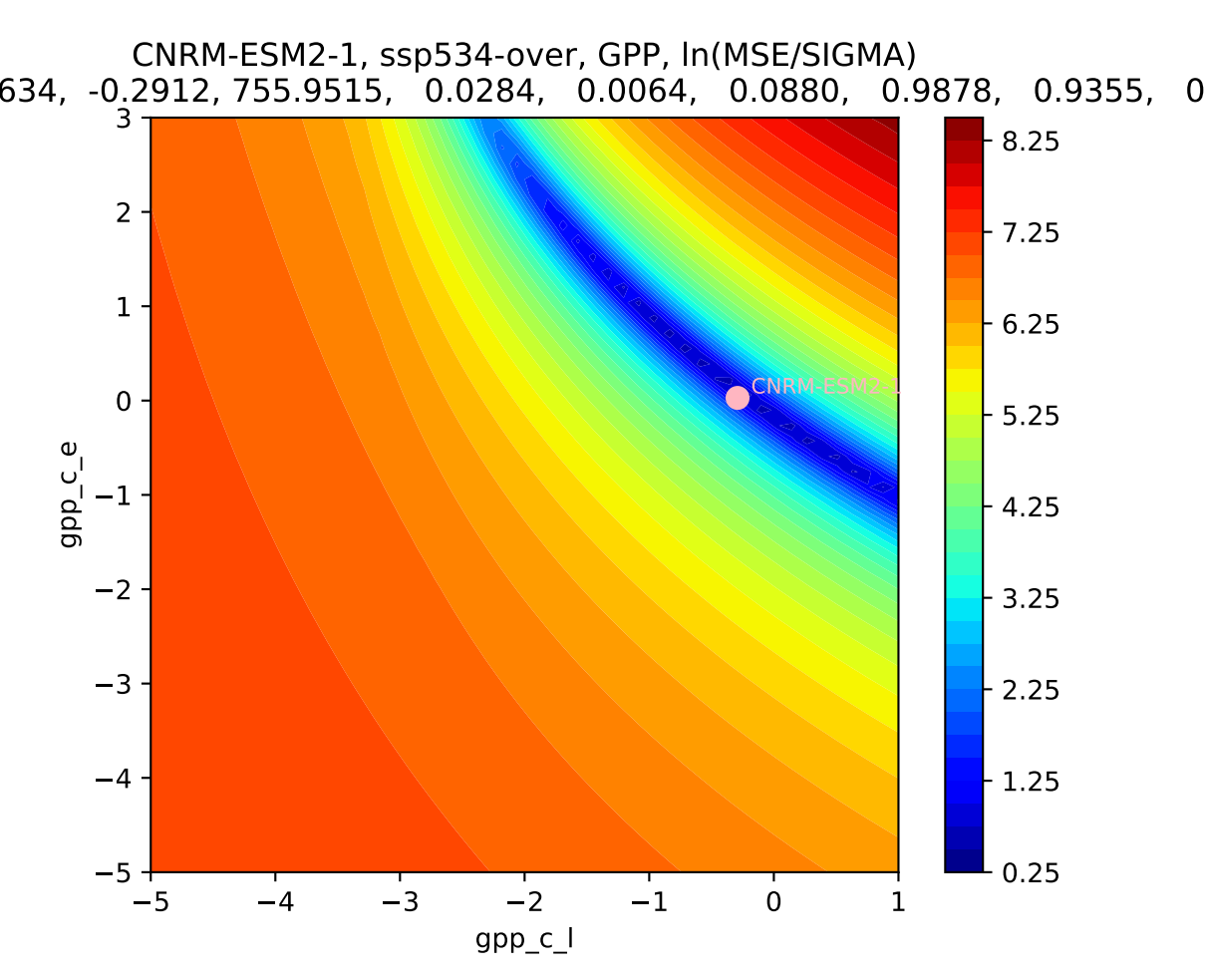

CNRM-ESM2-1, ssp534-over, GPP
ESM
Fit
GPP
ΔT

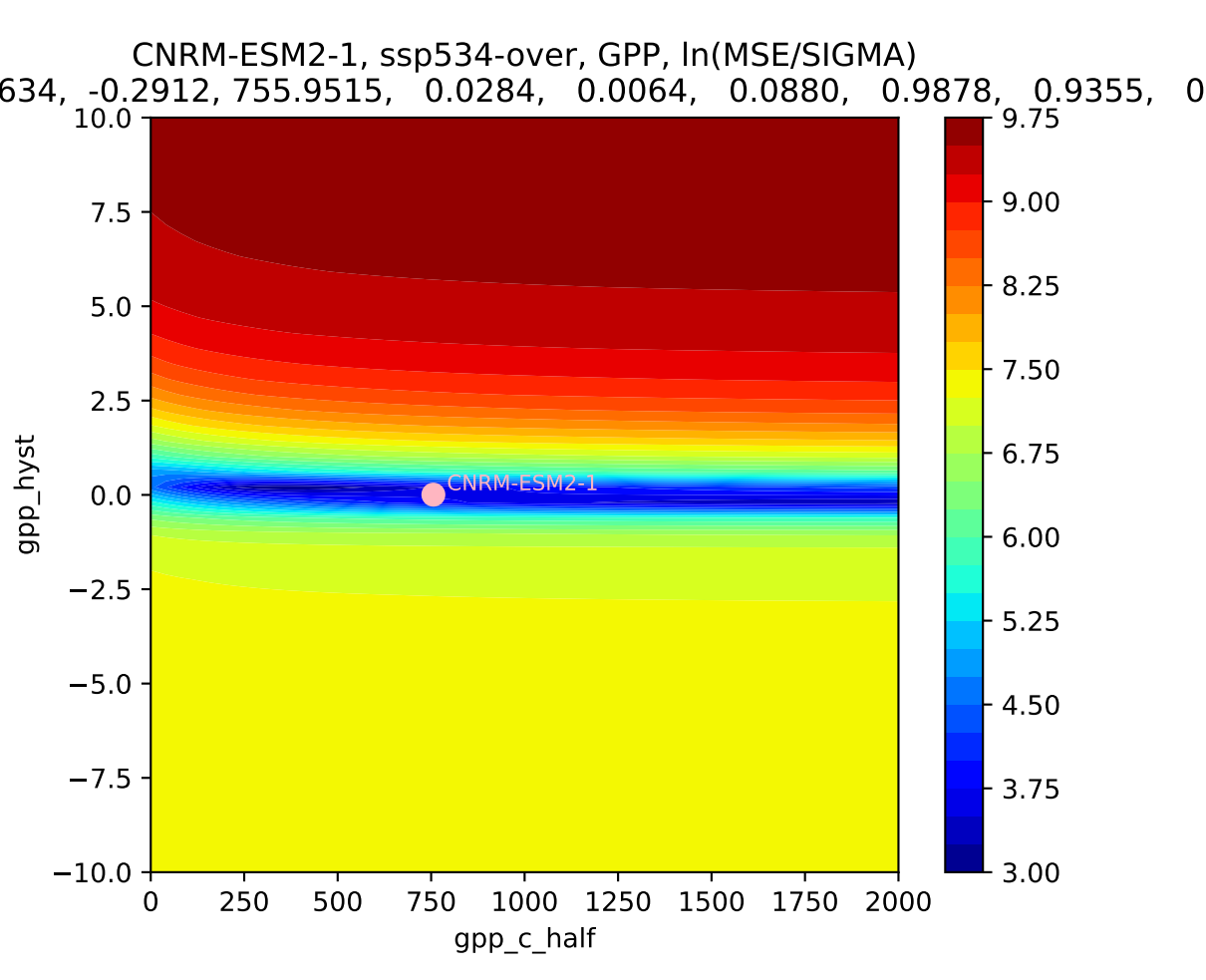

CNRM-ESM2-1, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

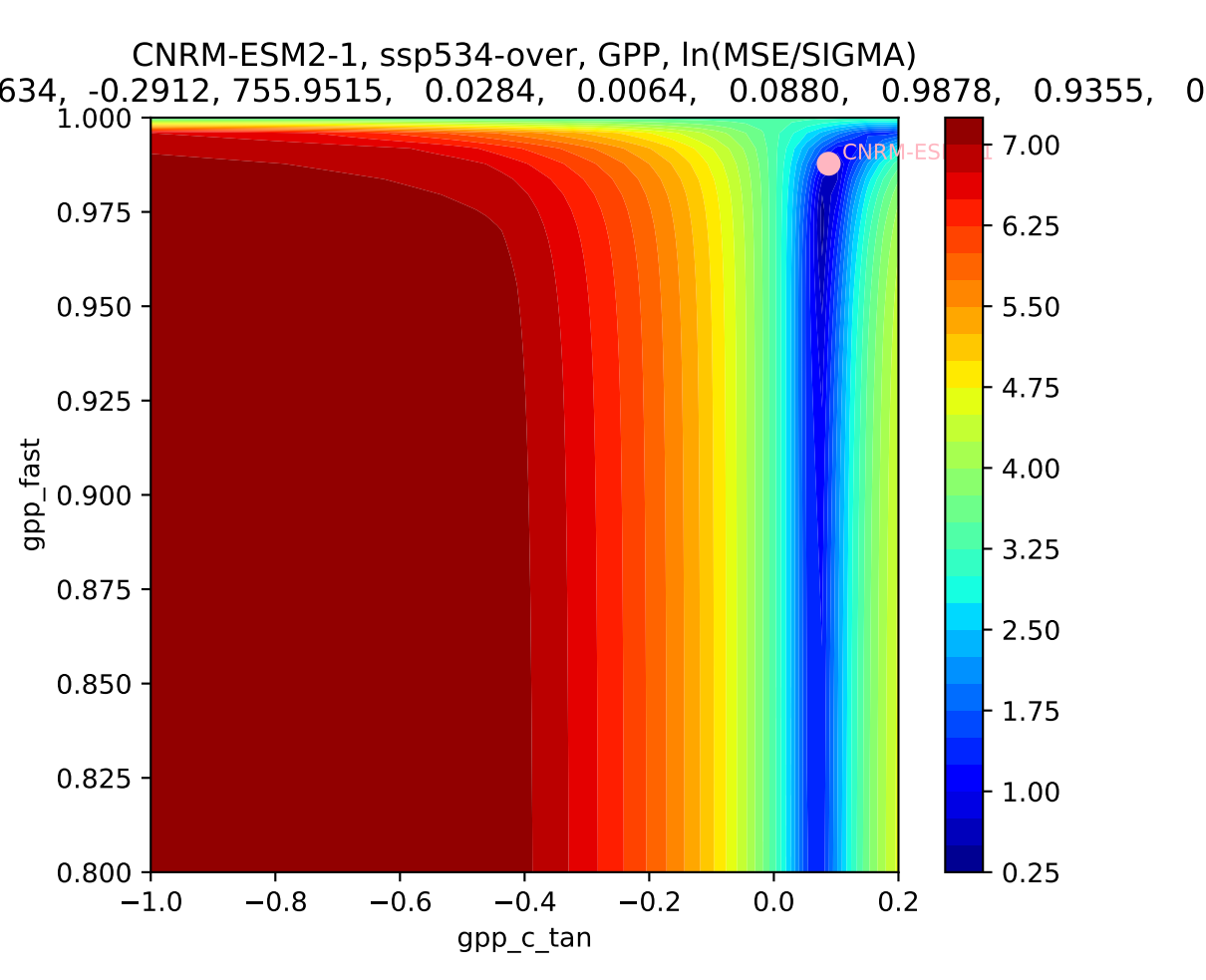

CNRM-ESM2-1, ssp534-over, GPP
ESM
Fit
GPP
c_atm

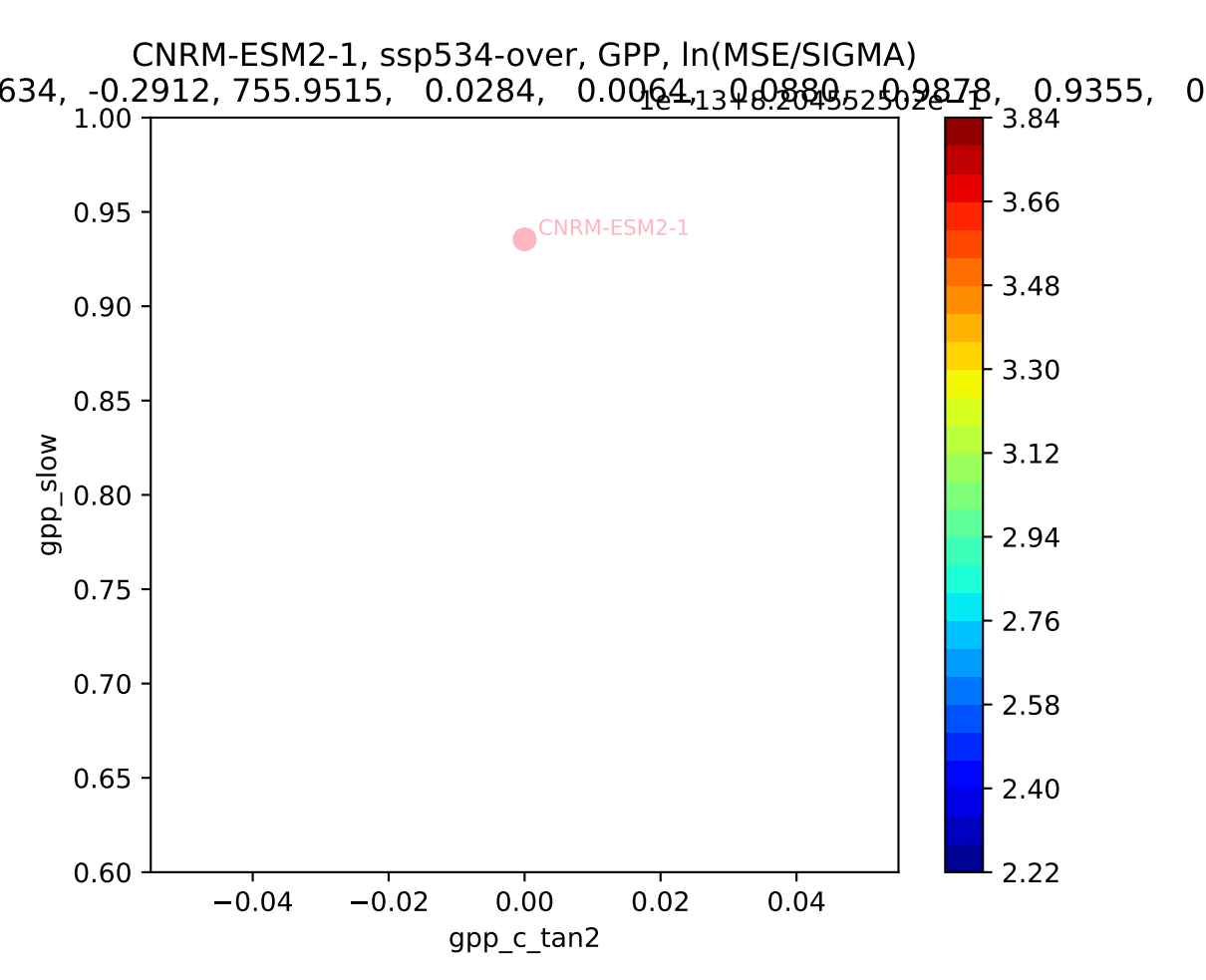

CNRM-ESM2-1, ssp534-over, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

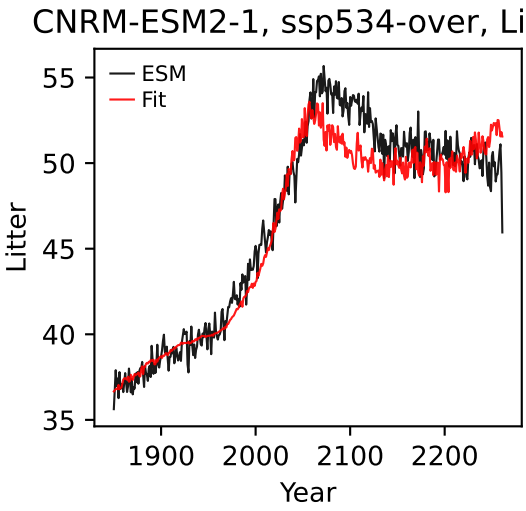

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9515, 0.0284, 0.0064, 0.0880, 0.9878, 0.9355, 0
CNRM-ESM2-1
gpp_t_e
gpp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8
0.9

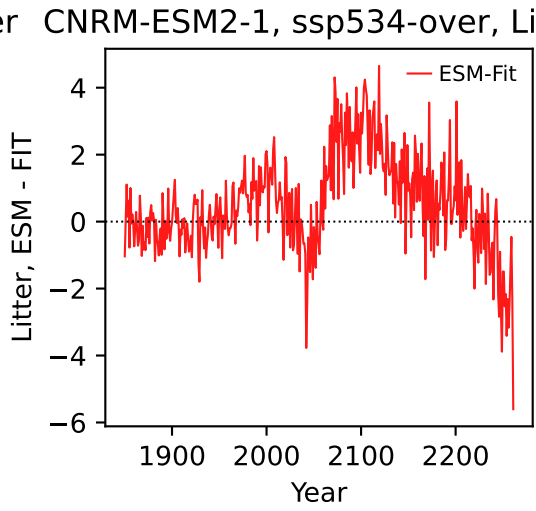

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9515, 0.0284, 0.0064, 0.0880, 0.9878, 0.9355, 0
CNRM-ESM2-1
gpp_c_e
gpp_c_l
3
2
1
0
−1
−2
−3
−4
−5
−5
−4
−3
−2
−1
0
1
8.25
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

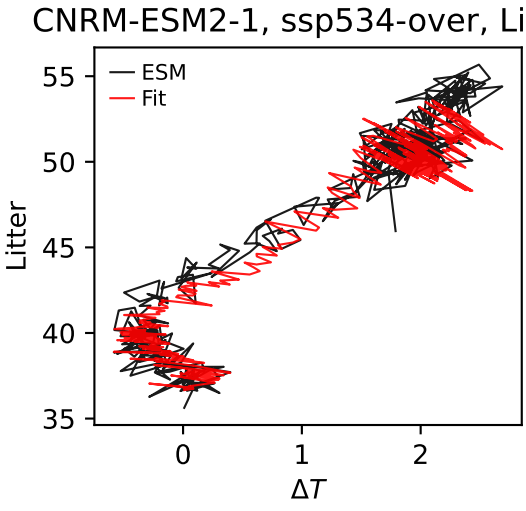

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9515, 0.0284, 0.0064, 0.0880, 0.9878, 0.9355, 0
CNRM-ESM2-1
gpp_hyst
gpp_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
9.75
9.00
8.25
7.50
6.75
6.00
5.25
4.50
3.75
3.00

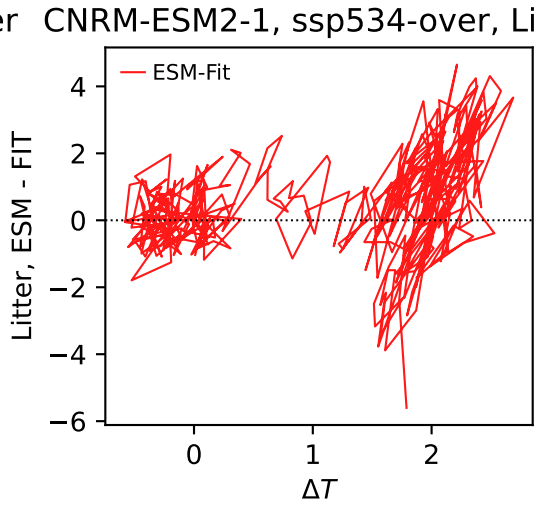

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9515, 0.0284, 0.0064, 0.0880, 0.9878, 0.9355, 0
CNRM-ES
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
gpp_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
gpp_c_tan
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00
0.25

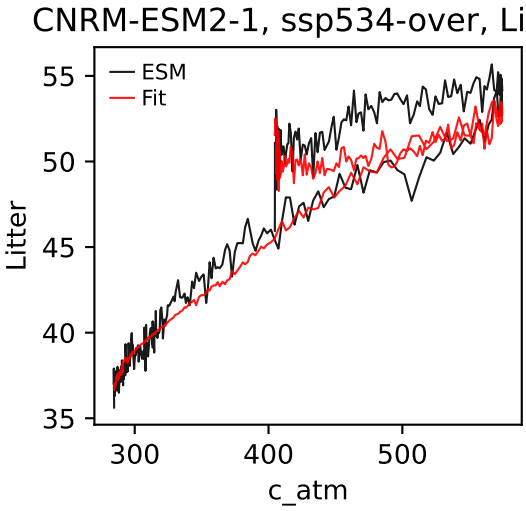

CNRM-ESM2-1, ssp534-over, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9515, 0.0284, 0.0064, 0.0880, 0.9878, 0.9355, 0
1e−13+8.204552502e−1
CNRM-ESM2-1
gpp_slow
gpp_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
3.84
3.66
3.48
3.30
3.12
2.94
2.76
2.58
2.40
2.22

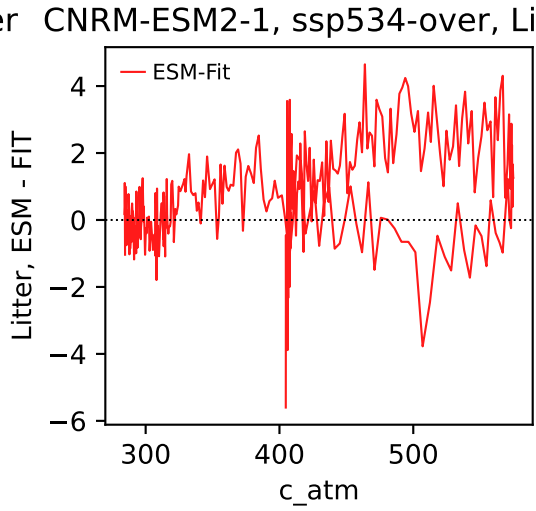

CNRM-ESM2-1, ssp534-over, Litter
ESM
Fit
Litter
Year

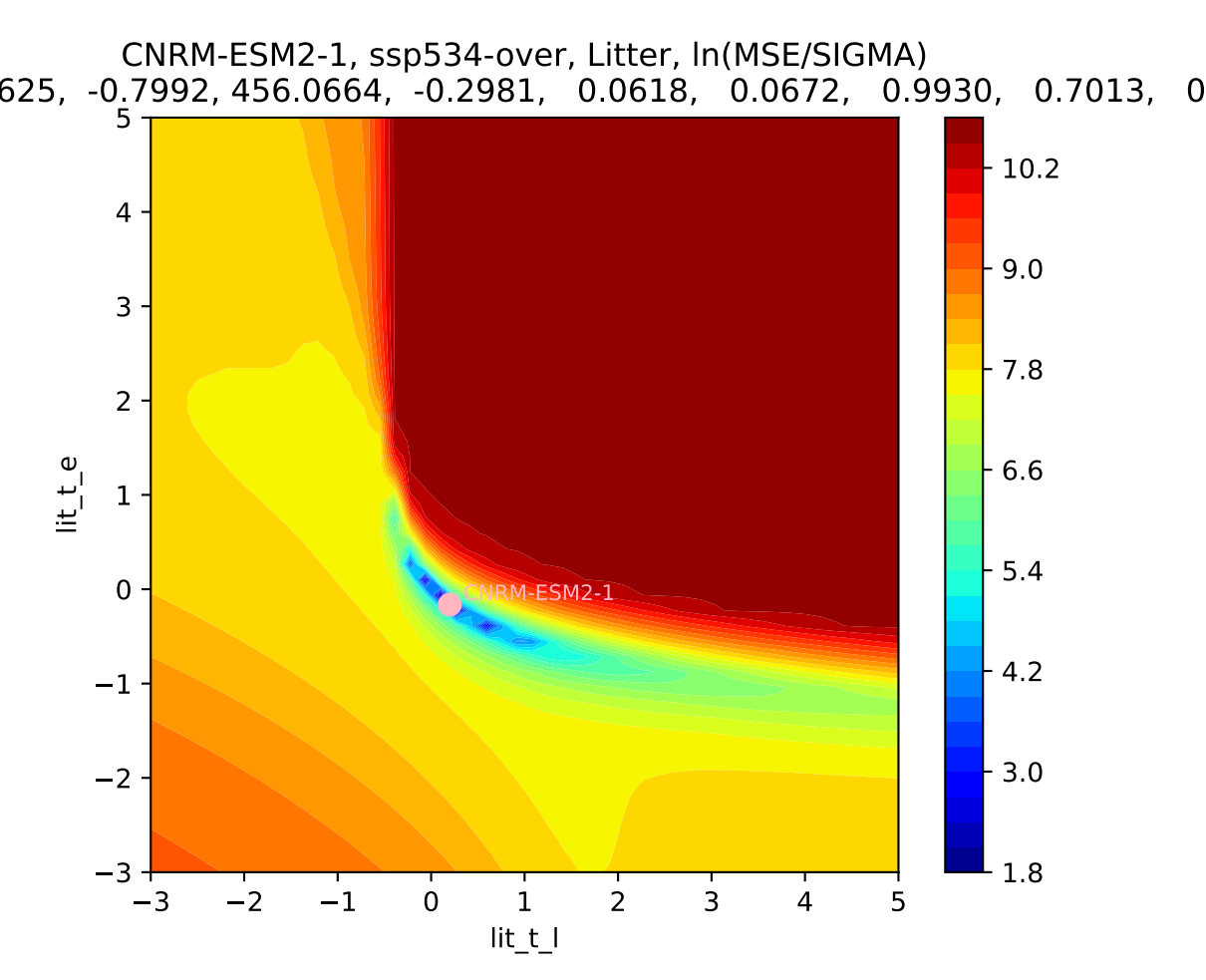

CNRM-ESM2-1, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
Year

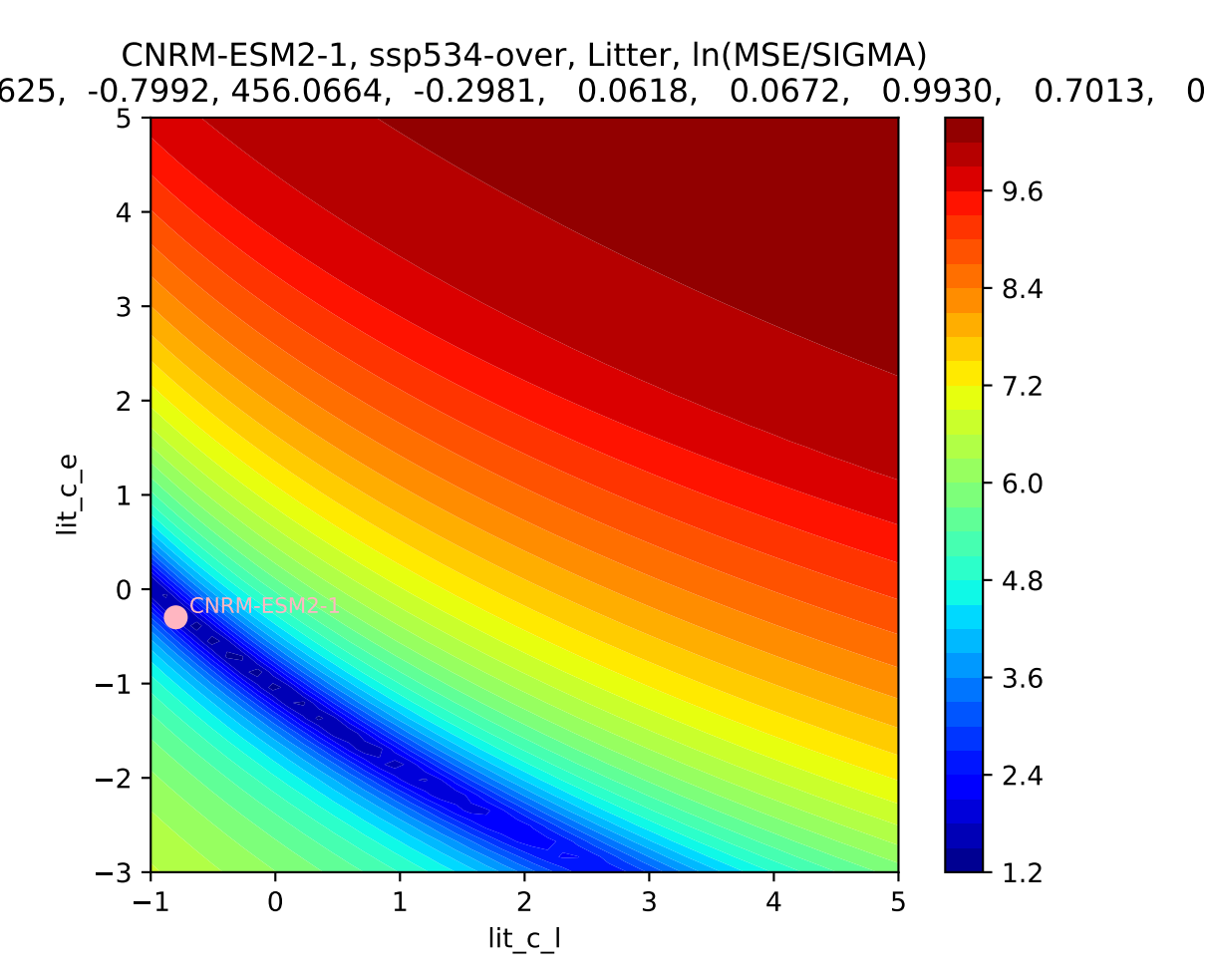

CNRM-ESM2-1, ssp534-over, Litter
ESM
Fit
Litter
ΔT

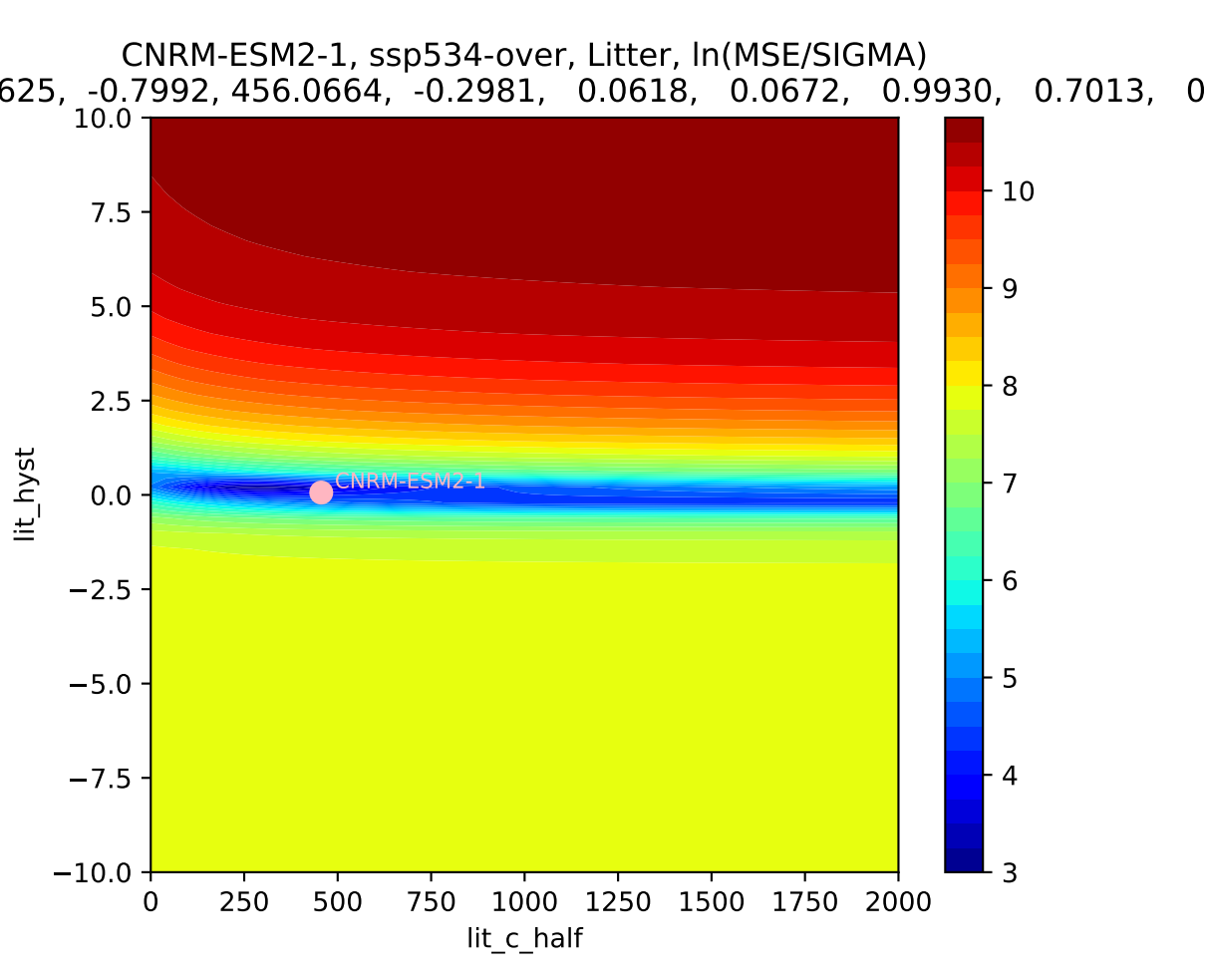

CNRM-ESM2-1, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
ΔT

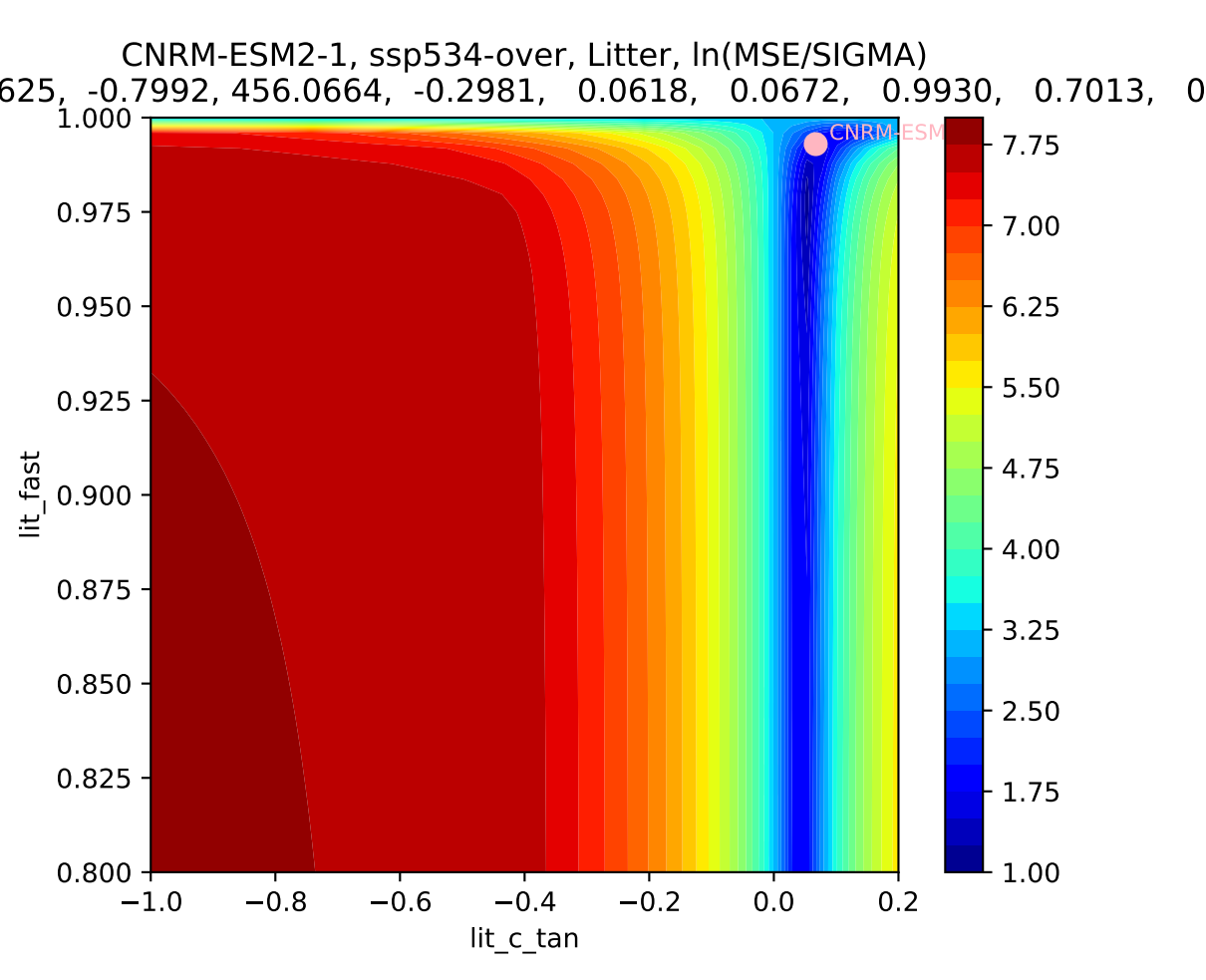

CNRM-ESM2-1, ssp534-over, Litter
ESM
Fit
Litter
c_atm

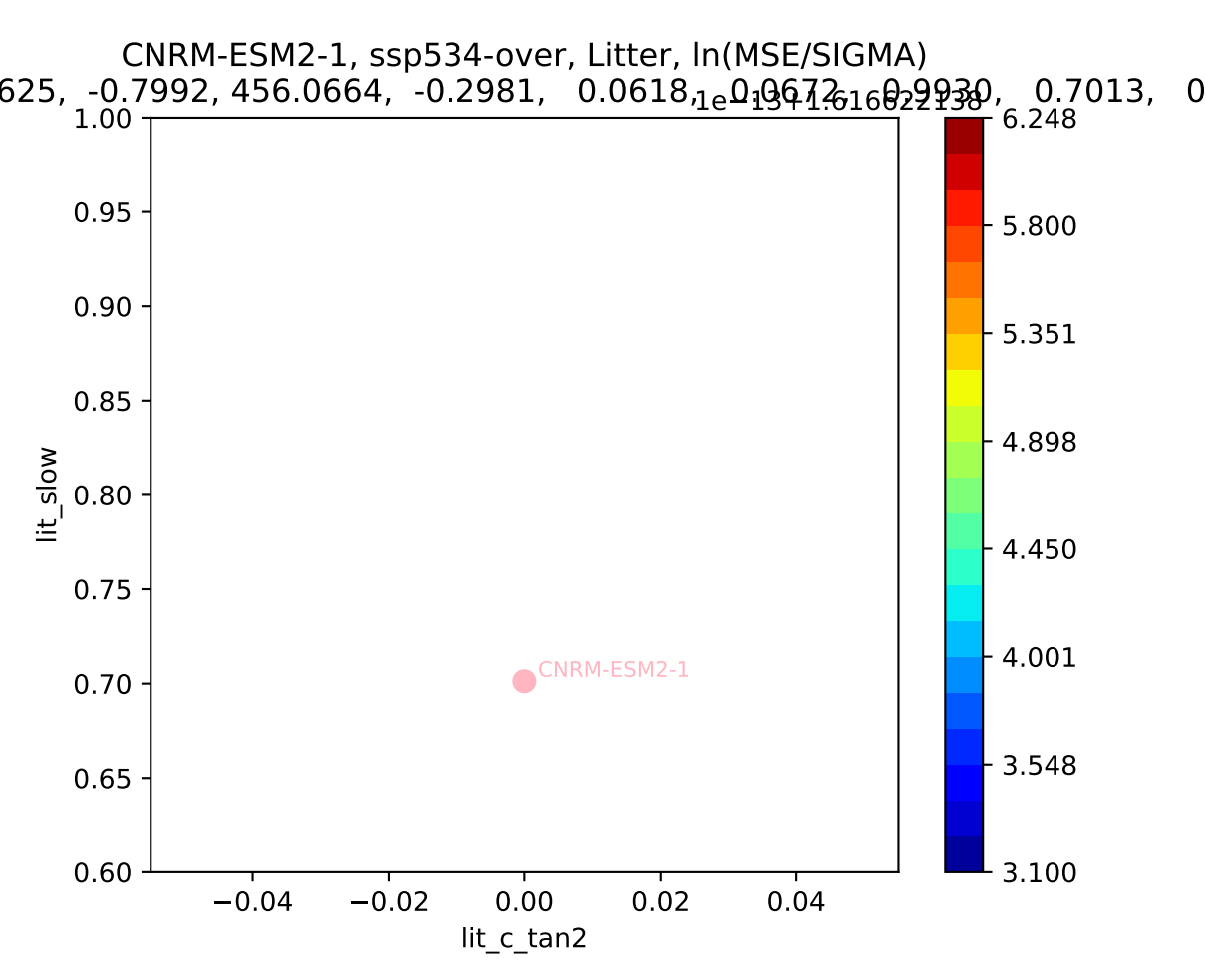

CNRM-ESM2-1, ssp534-over, Litte
ESM-Fit
Litter, ESM - FIT
c_atm

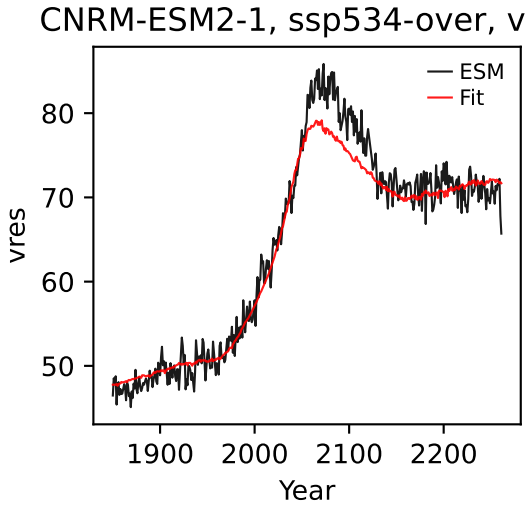

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.0664, -0.2981, 0.0618, 0.0672, 0.9930, 0.7013, 0
CNRM-ESM2-1
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
10.2
9.0
7.8
6.6
5.4
4.2
3.0
1.8

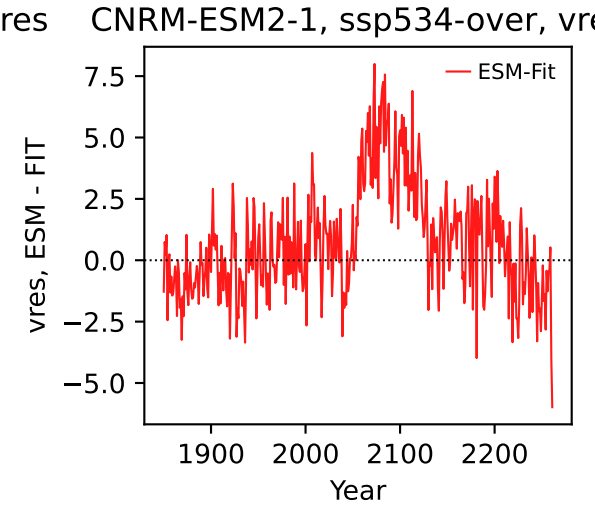

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.0664, -0.2981, 0.0618, 0.0672, 0.9930, 0.7013, 0
lit_c_e
lit_c_l
CNRM-ESM2-1
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

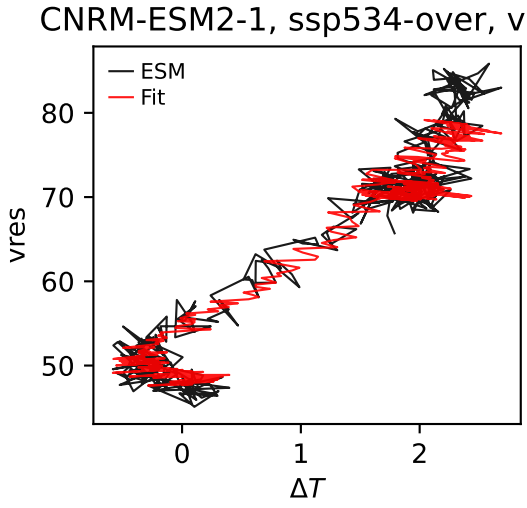

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.0664, -0.2981, 0.0618, 0.0672, 0.9930, 0.7013, 0
CNRM-ESM2-1
lit_hyst
lit_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
10
9
8
7
6
5
4
3

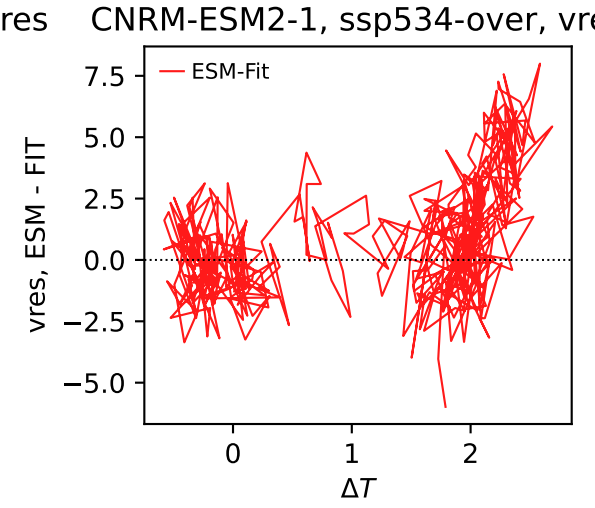

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.0664, -0.2981, 0.0618, 0.0672, 0.9930, 0.7013, 0
CNRM-ESM
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
lit_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
lit_c_tan
7.75
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00

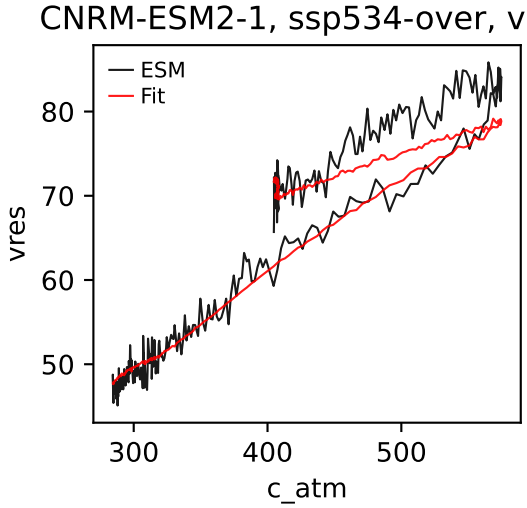

CNRM-ESM2-1, ssp534-over, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.0664, -0.2981, 0.0618, 0.0672, 0.9930, 0.7013, 0
1e−131 1.616622138
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
lit_slow
CNRM-ESM2-1
−0.04
−0.02
0.00
0.02
0.04
lit_c_tan2
6.248
5.800
5.351
4.898
4.450
4.001
3.548
3.100

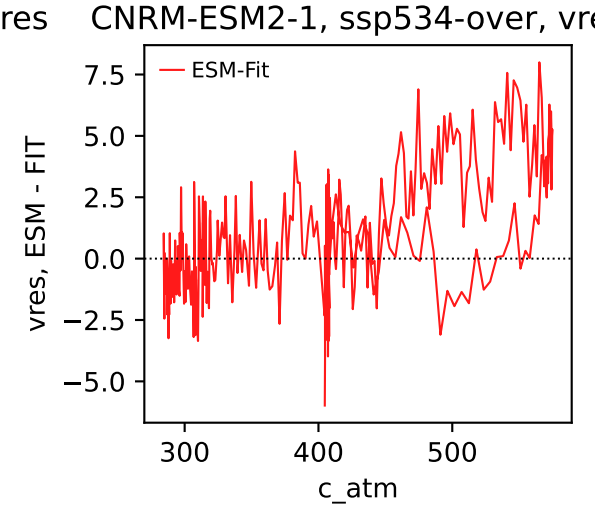

CNRM-ESM2-1, ssp534-over, vres
ESM
Fit
vres
Year

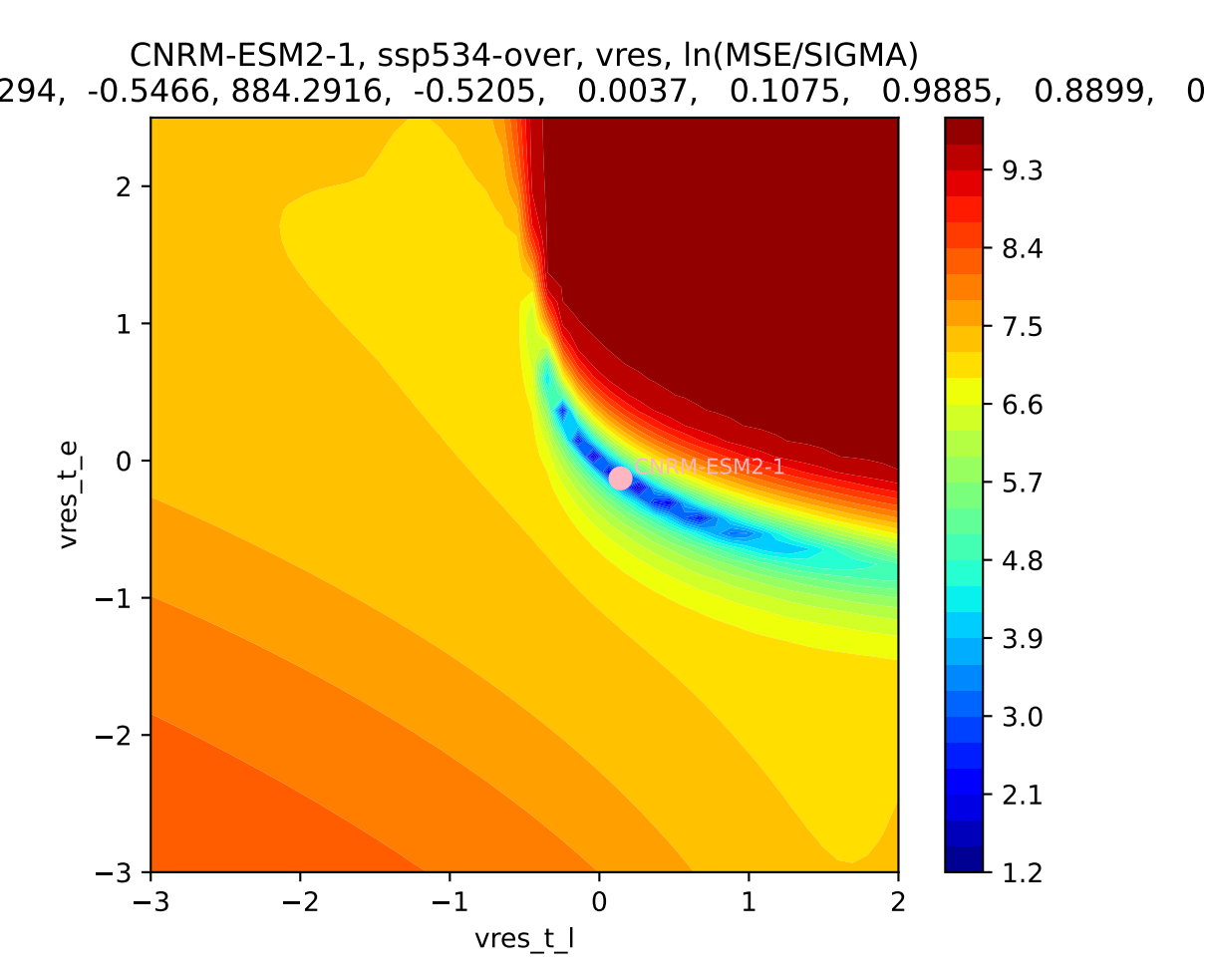

CNRM-ESM2-1, ssp534-over, vre
ESM-Fit
vres, ESM - FIT
Year

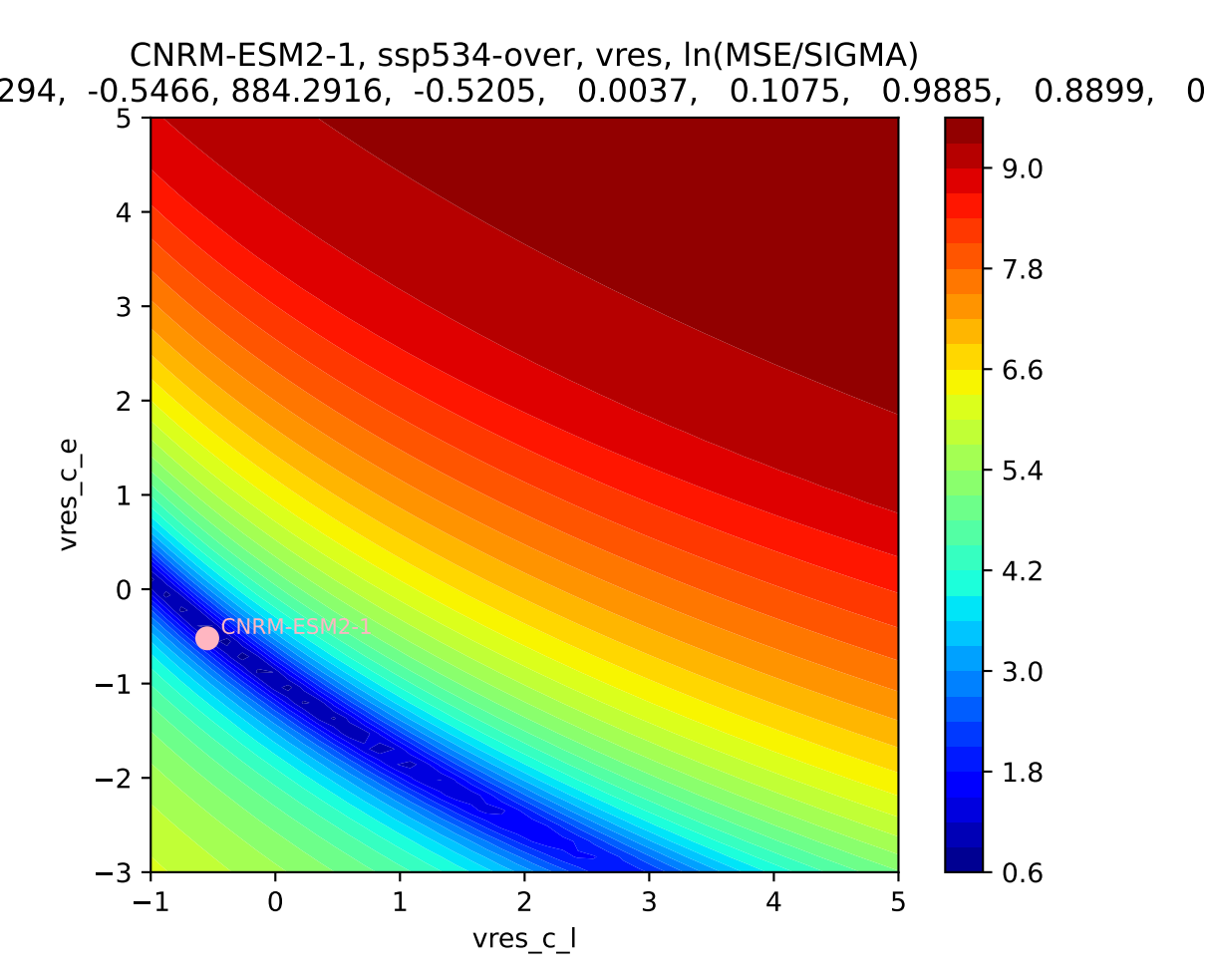

CNRM-ESM2-1, ssp534-over, vres
ESM
Fit
vres
ΔT

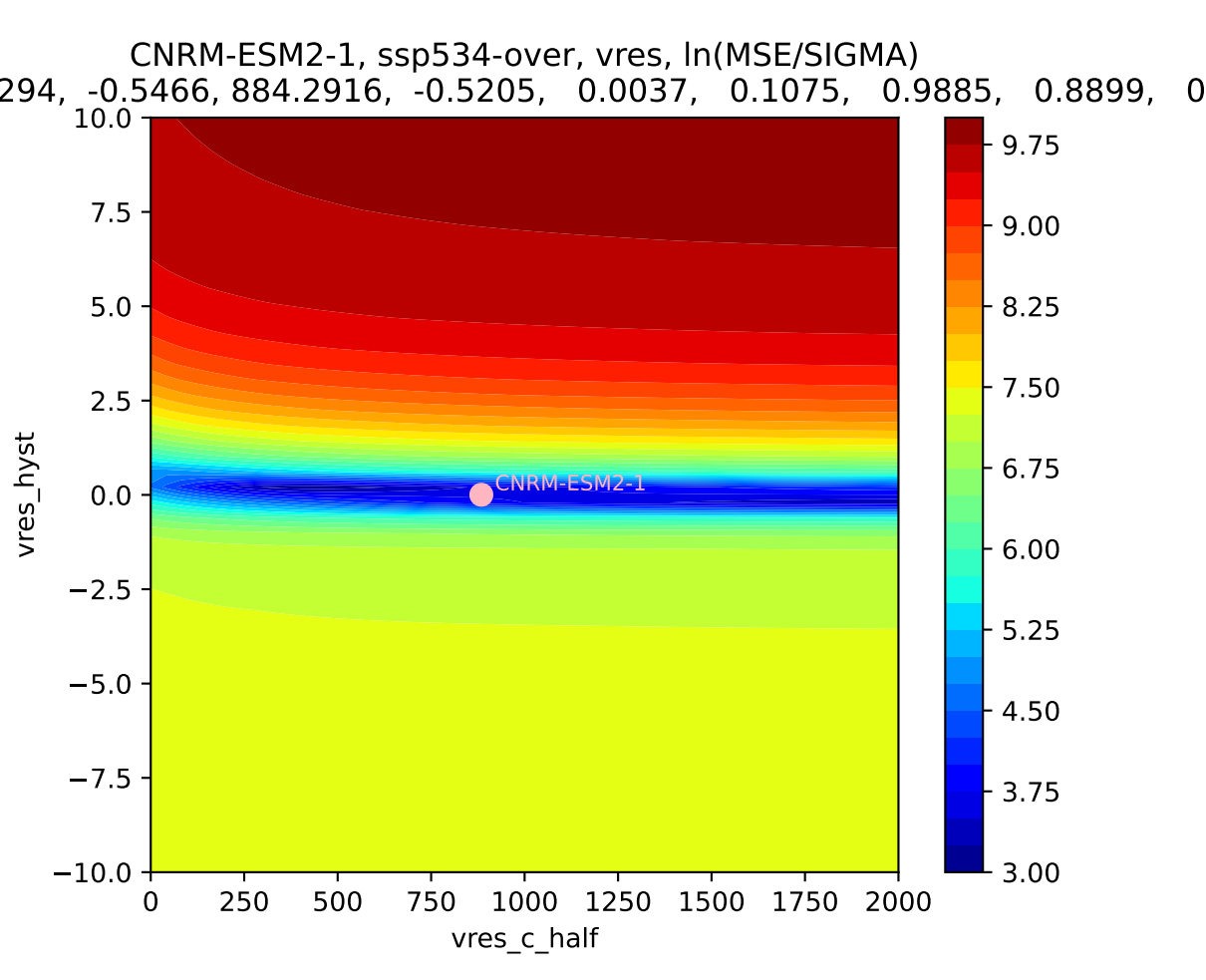

CNRM-ESM2-1, ssp534-over, vre
ESM-Fit
vres, ESM - FIT
ΔT


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)
294, -0.5466, 884.2916, -0.5205, 0.0037, 0.1075, 0.9885, 0.8899, 0
CNRM-ESM2-1
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
9.3
8.4
7.5
6.6
5.7
4.8
3.9
3.0
2.1
1.2


CNRM-ESM2-1, ssp534-over, vres, ln(MSE/SIGMA)
294, -0.5466, 884.2916, -0.5205, 0.0037, 0.1075, 0.9885, 0.8899, 0
CNRM-ESM2-1
vres_c_e
vres_c_l
5
4
3
2
1
0
−1
−2
−3
−1
0
1
2
3
4
5
9.0
7.8
6.6
5.4
4.2
3.0
1.8
0.6


CNRM-ESM2-1, ssp534-over, vres, ln(MSE/SIGMA)
294, -0.5466, 884.2916, -0.5205, 0.0037, 0.1075, 0.9885, 0.8899, 0
CNRM-ESM2-1
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
9.75
9.00
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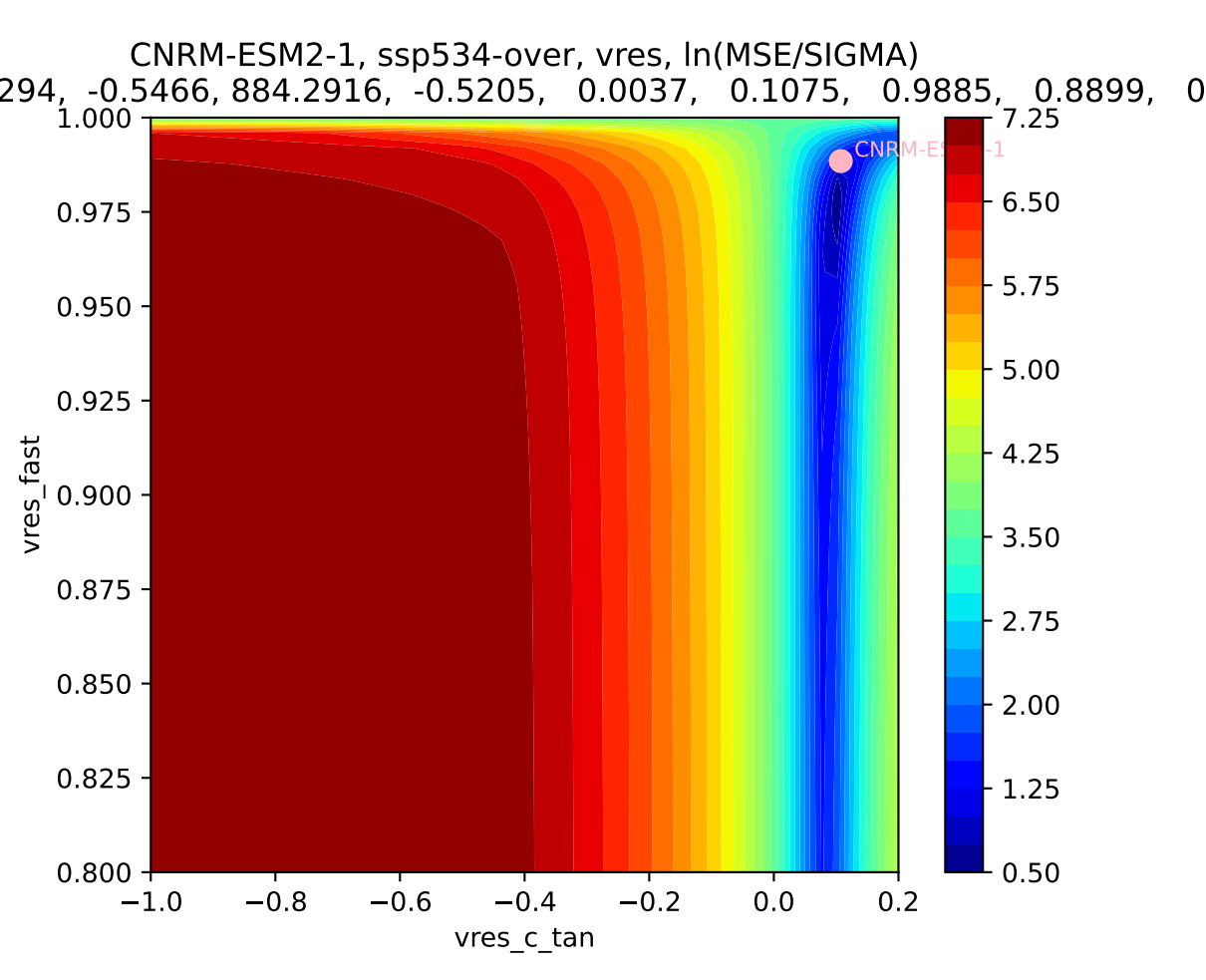
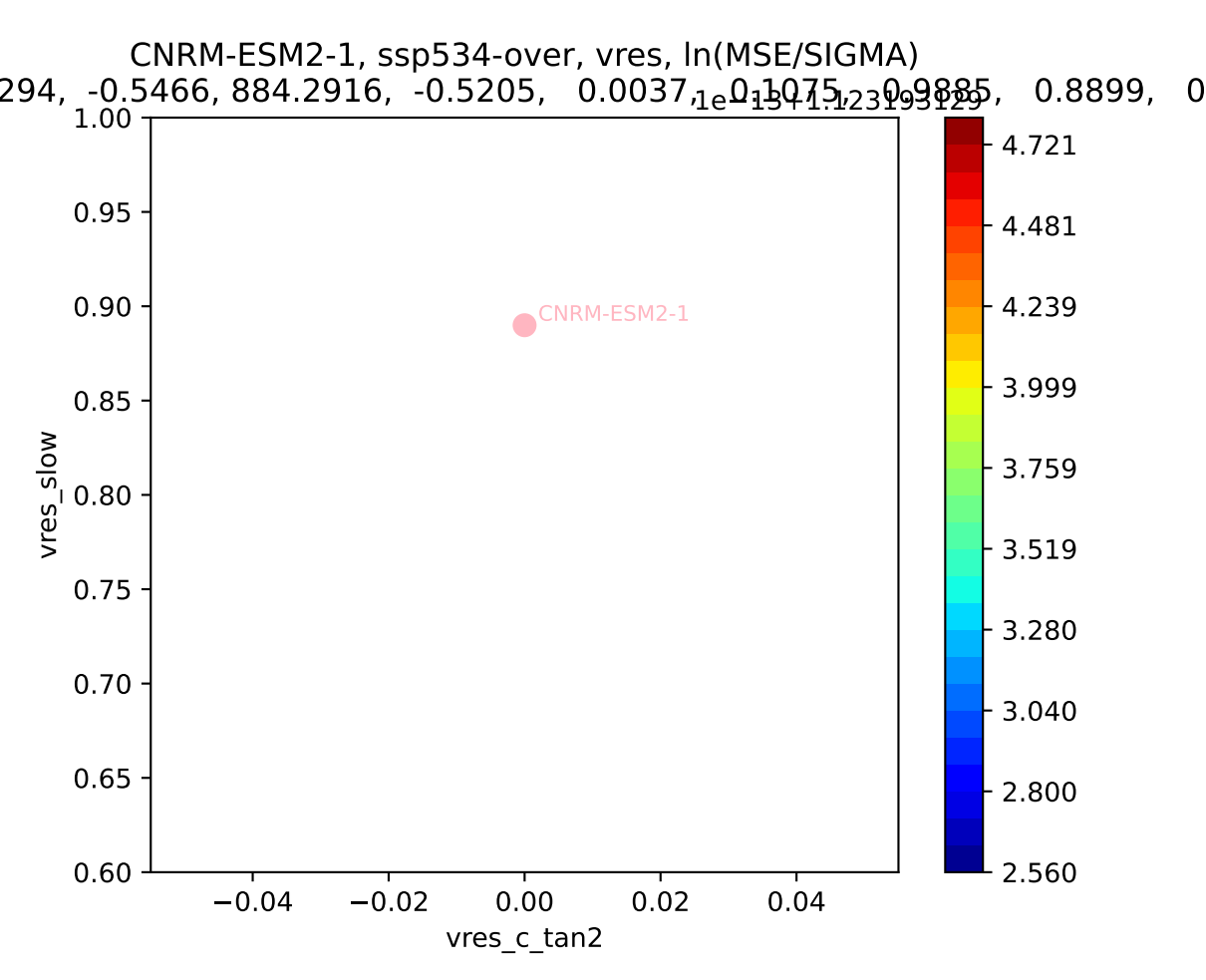
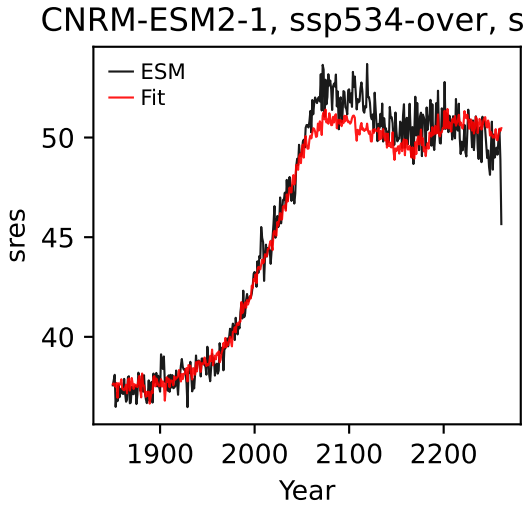
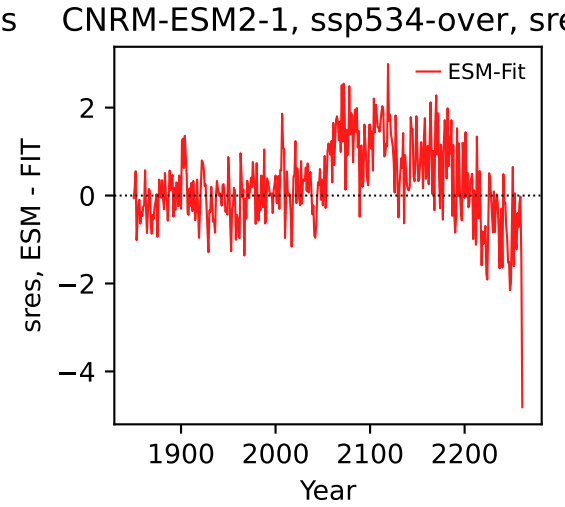
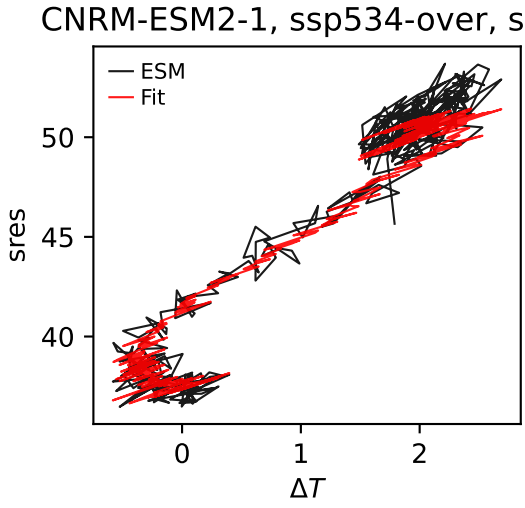
4.50
3.75
3.00

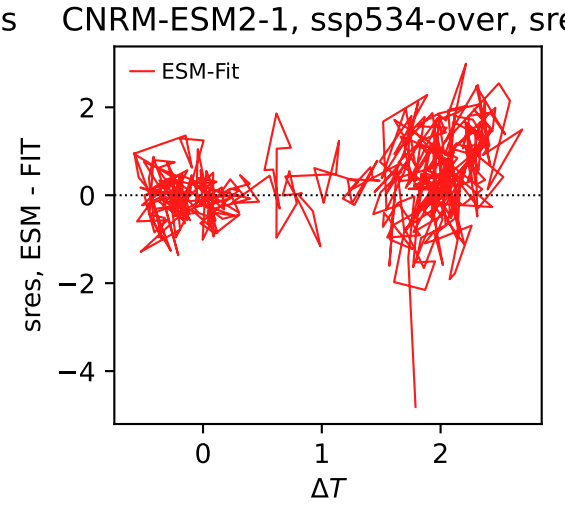

CNRM-ESM2-1, ssp534-over, vres, ln(MSE/SIGMA)
294, -0.5466, 884.2916, -0.5205, 0.0037, 0.1075, 0.9885, 0.8899, 0
CNRM-ES -1
vres_fast
vres_c_tan
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
7.25
6.50
5.75
5.00
4.25
3.50
2.75
2.00
1.25
0.50

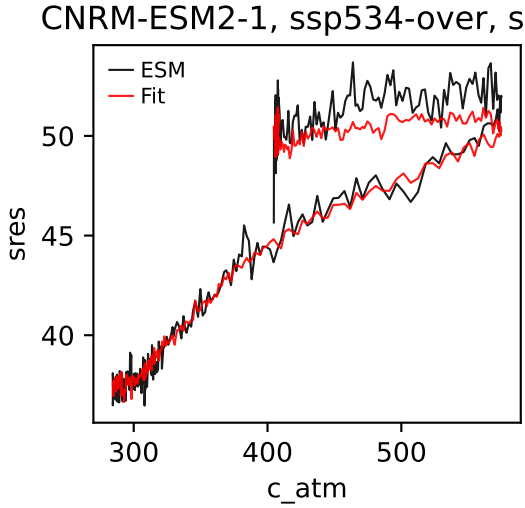

CNRM-ESM2-1, ssp534-over, vres, ln(MSE/SIGMA)
294, -0.5466, 884.2916, -0.5205, 0.0037, 0.1075, 0.9885, 0.8899, 0
1e−15+1.123193129
CNRM-ESM2-1
vres_slow
vres_c_tan2
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
4.721
4.481
4.239
3.999
3.759
3.519
3.280
3.040
2.800
2.560

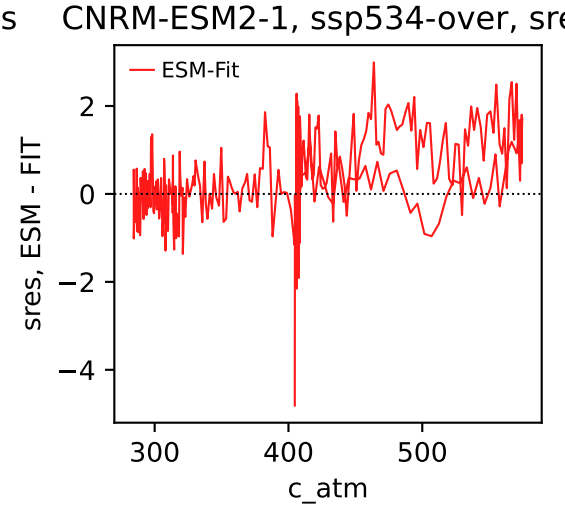

CNRM-ESM2-1, ssp534-over, sres
ESM
Fit
sres
Year

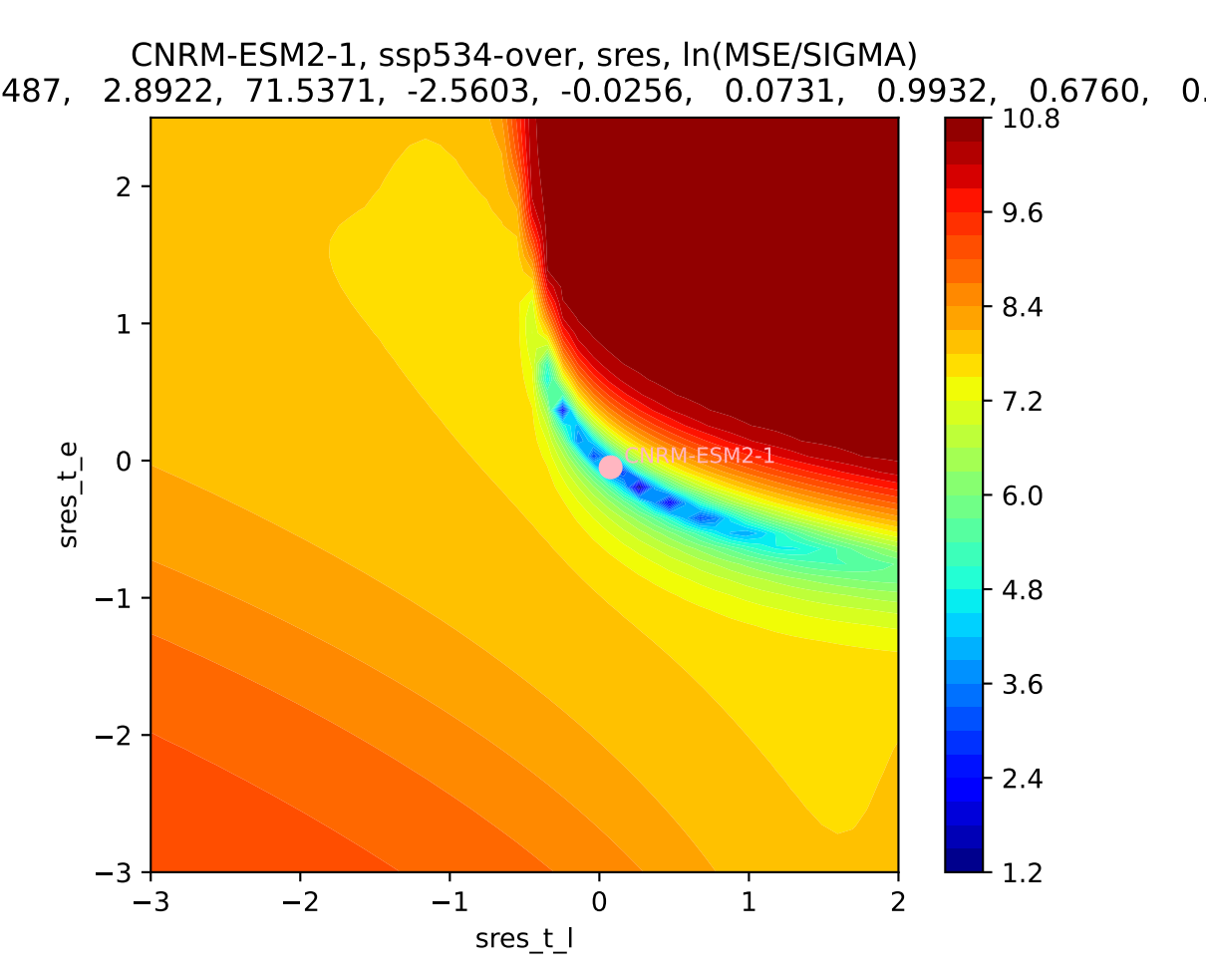

CNRM-ESM2-1, ssp534-over, sre
ESM-Fit
sres, ESM - FIT
Year

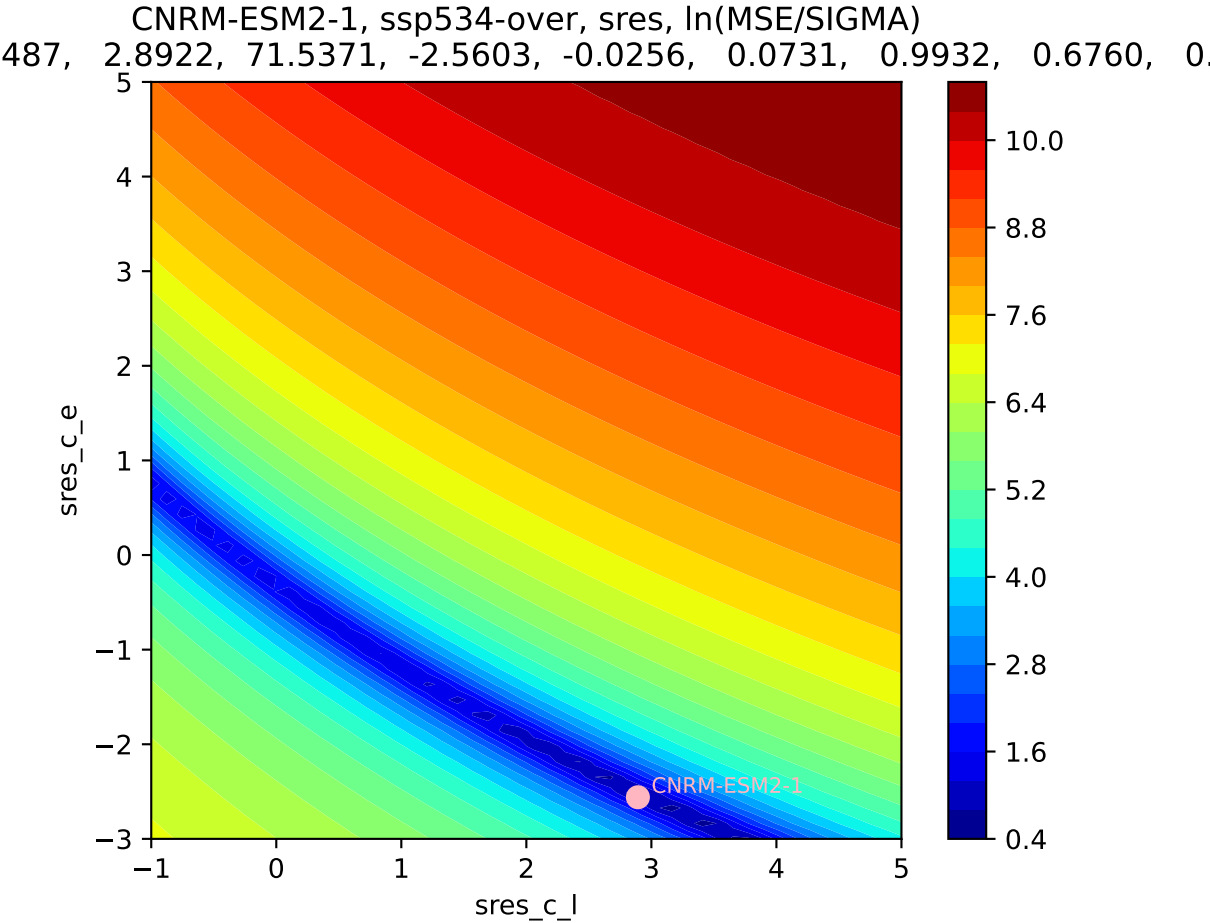

CNRM-ESM2-1, ssp534-over, sres
ESM
Fit
sres
ΔT

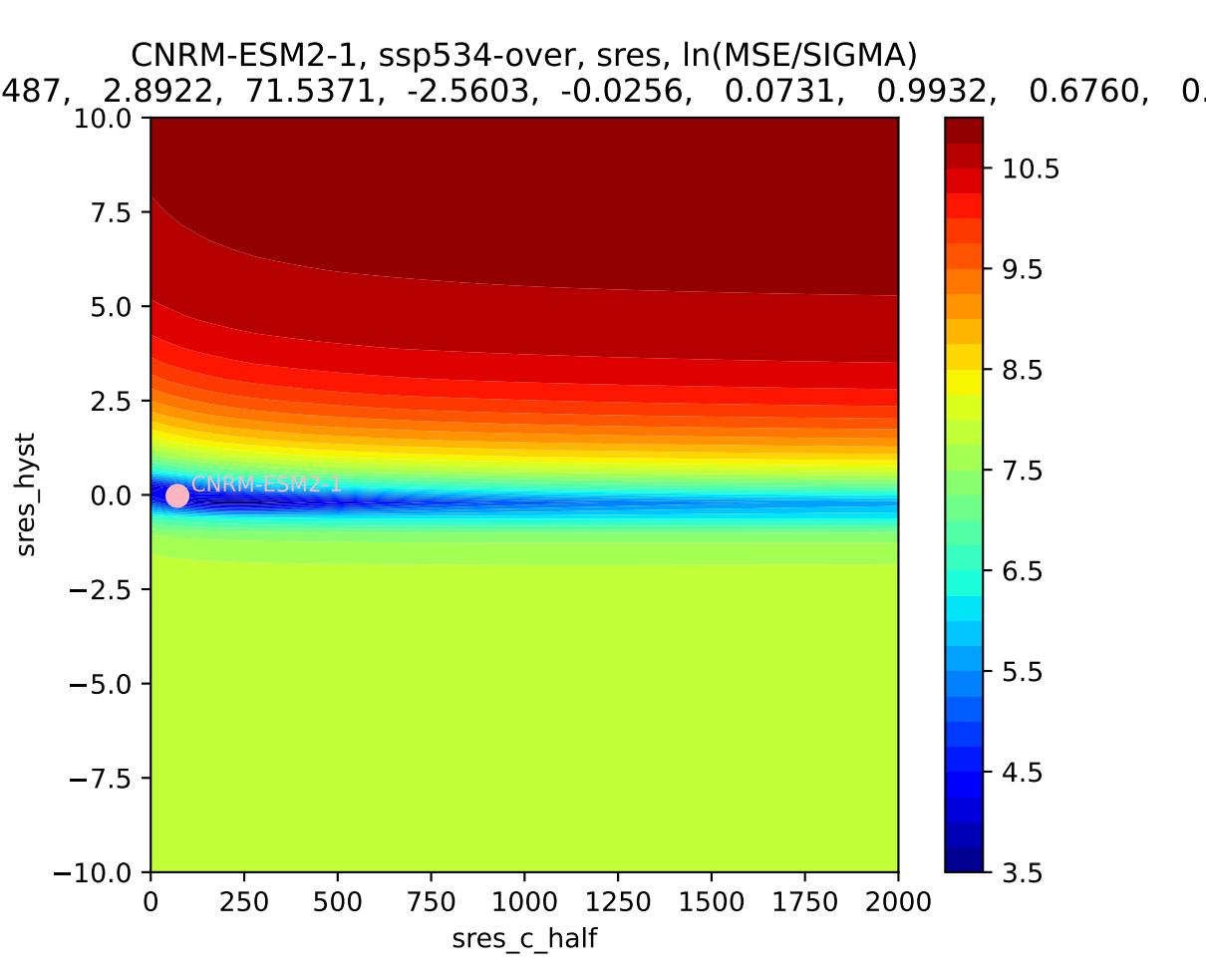

CNRM-ESM2-1, ssp534-over, sre
ESM-Fit
sres, ESM - FIT
ΔT

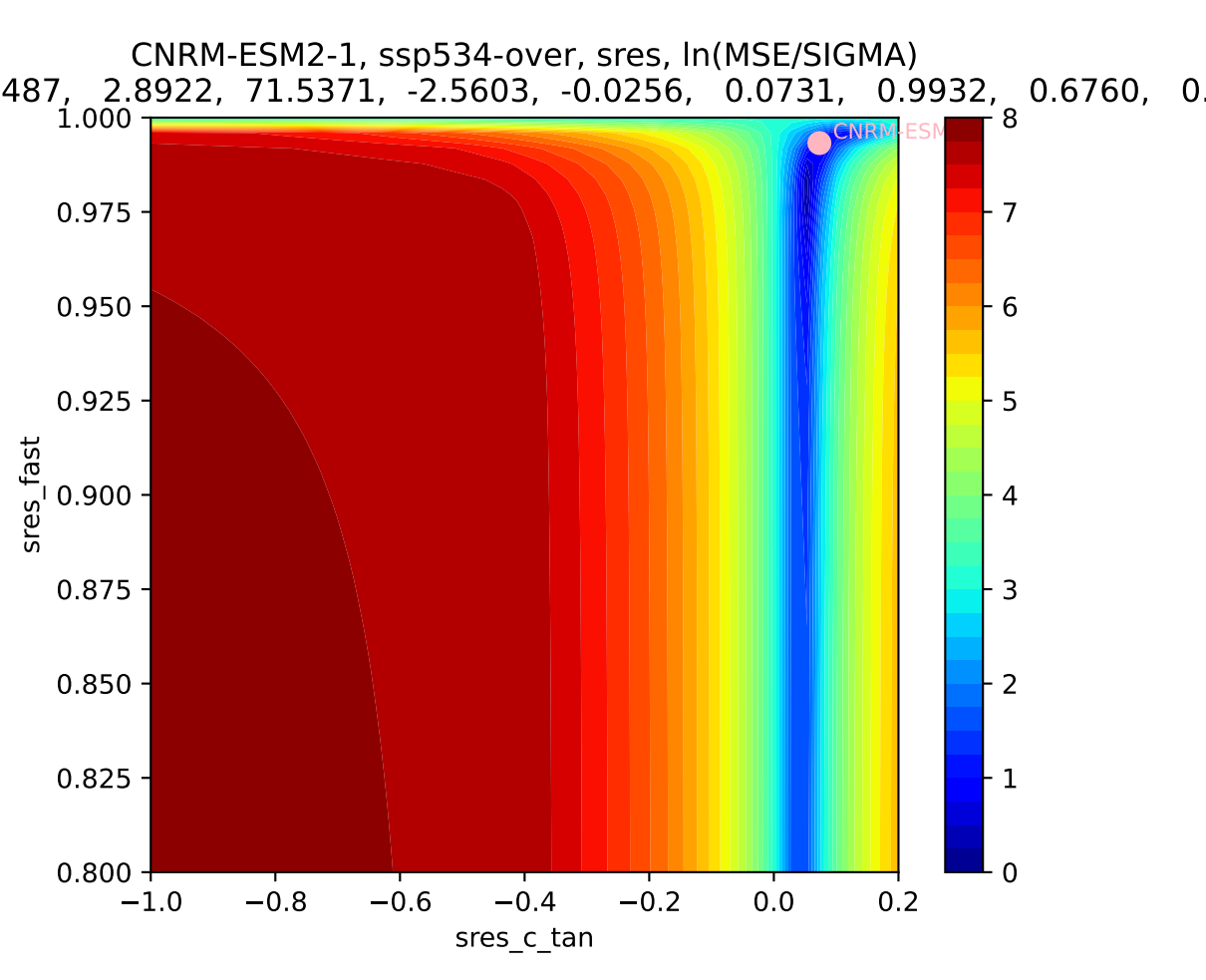

CNRM-ESM2-1, ssp534-over, sres
ESM
Fit
sres
c_atm

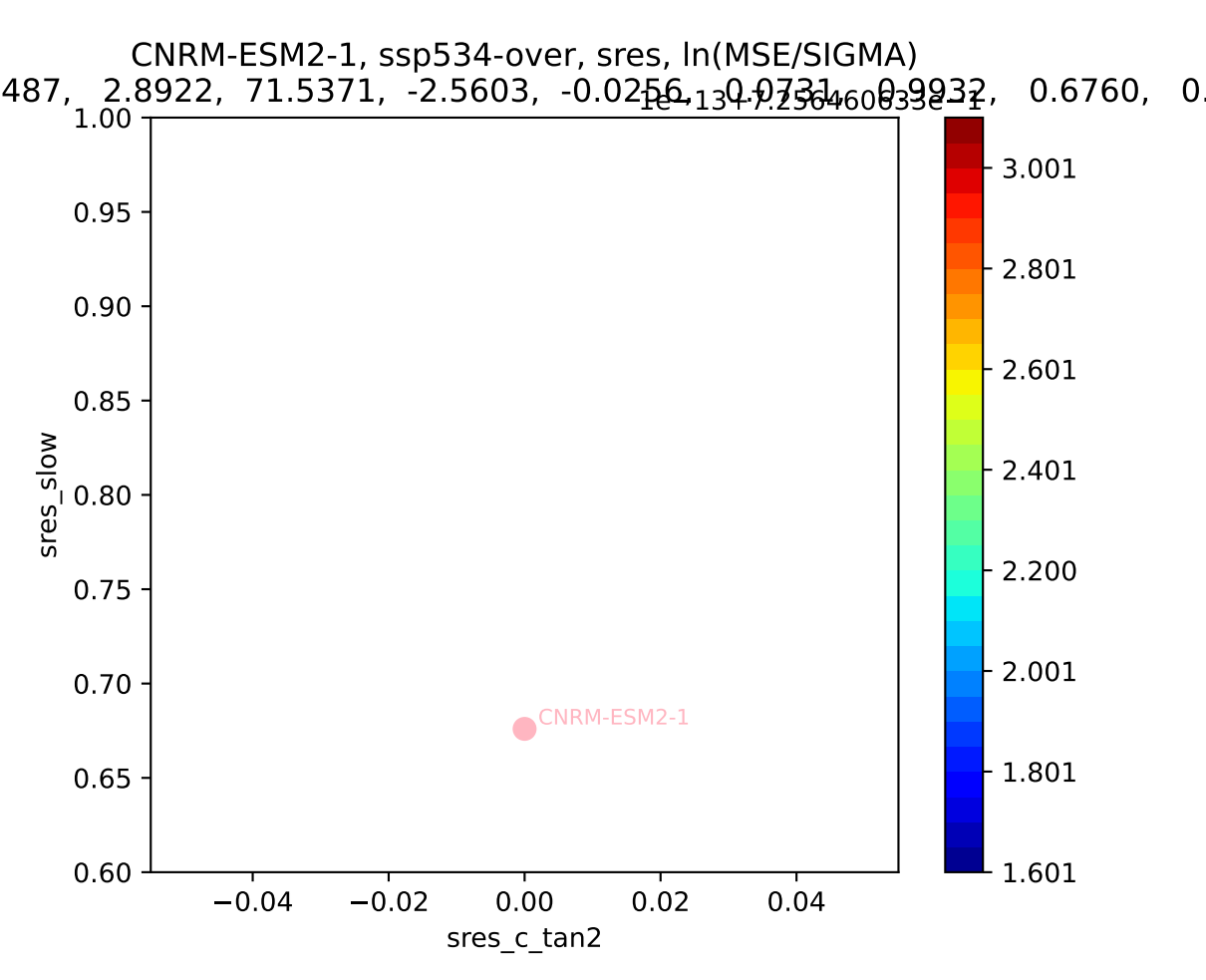

CNRM-ESM2-1, ssp534-over, sre
ESM-Fit
sres, ESM - FIT
c_atm

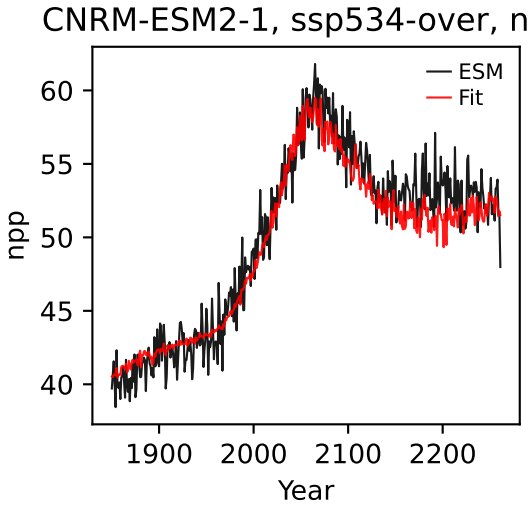

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5371, -2.5603, -0.0256, 0.0731, 0.9932, 0.6760, 0.
CNRM-ESM2-1
sres_t_e
sres_t_l
10.8
9.6
8.4
7.2
6.0
4.8
3.6
2.4
1.2

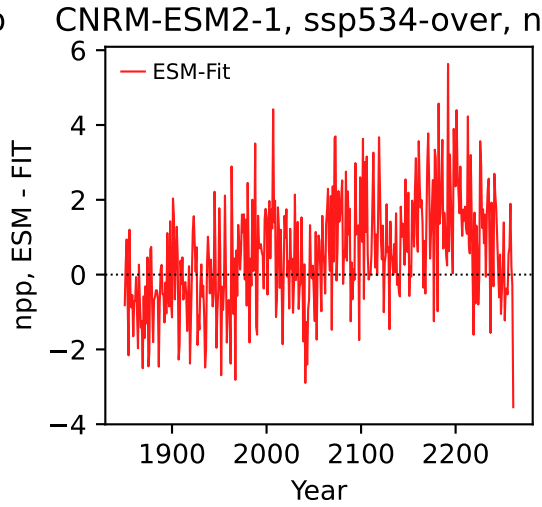

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5371, -2.5603, -0.0256, 0.0731, 0.9932, 0.6760, 0.
sres_c_e
sres_c_l
CNRM-ESM2-1
10.0
8.8
7.6
6.4
5.2
4.0
2.8
1.6
0.4

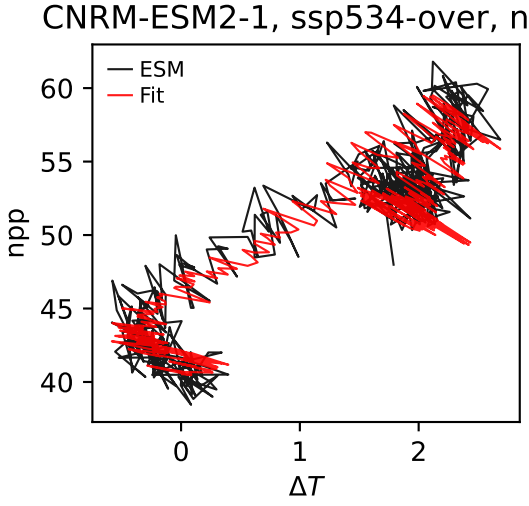

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5371, -2.5603, -0.0256, 0.0731, 0.9932, 0.6760, 0.
CNRM-ESM2-1
sres_hyst
sres_c_half
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0
250
500
750
1000
1250
1500
1750
2000
10.5
9.5
8.5
7.5
6.5
5.5
4.5
3.5

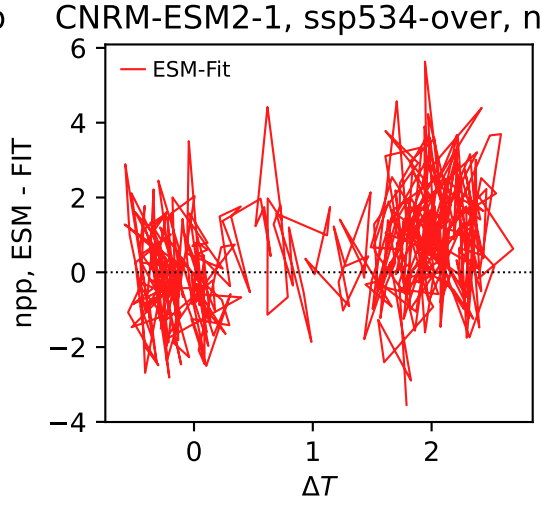

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5371, -2.5603, -0.0256, 0.0731, 0.9932, 0.6760, 0.
CNRM-ESM
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
sres_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
sres_c_tan
8
7
6
5
4
3
2
1
0

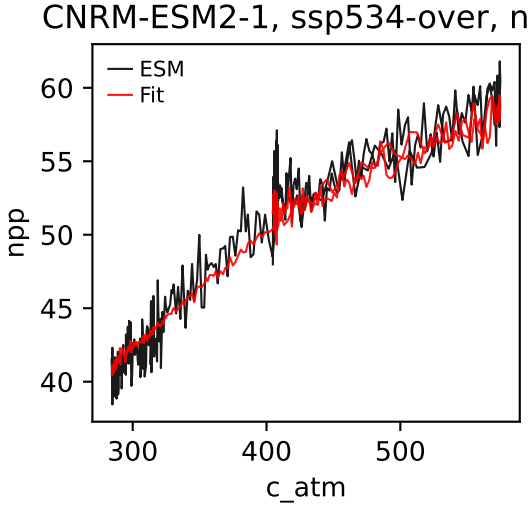

CNRM-ESM2-1, ssp534-over, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5371, -2.5603, -0.0256, 0.0731, 0.9932, 0.6760, 0.
1e−13+7.256460633e−1
sres_slow
sres_c_tan2
CNRM-ESM2-1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
−0.04
−0.02
0.00
0.02
0.04
3.001
2.801
2.601
2.401
2.200
2.001
1.801
1.601

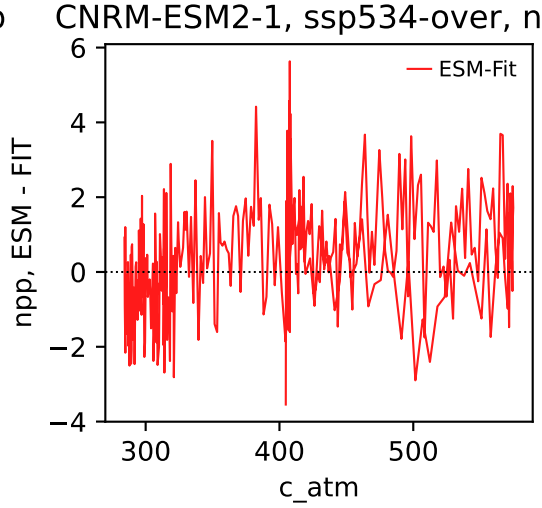

CNRM-ESM2-1, ssp534-over, npp
ESM
Fit
npp
Year

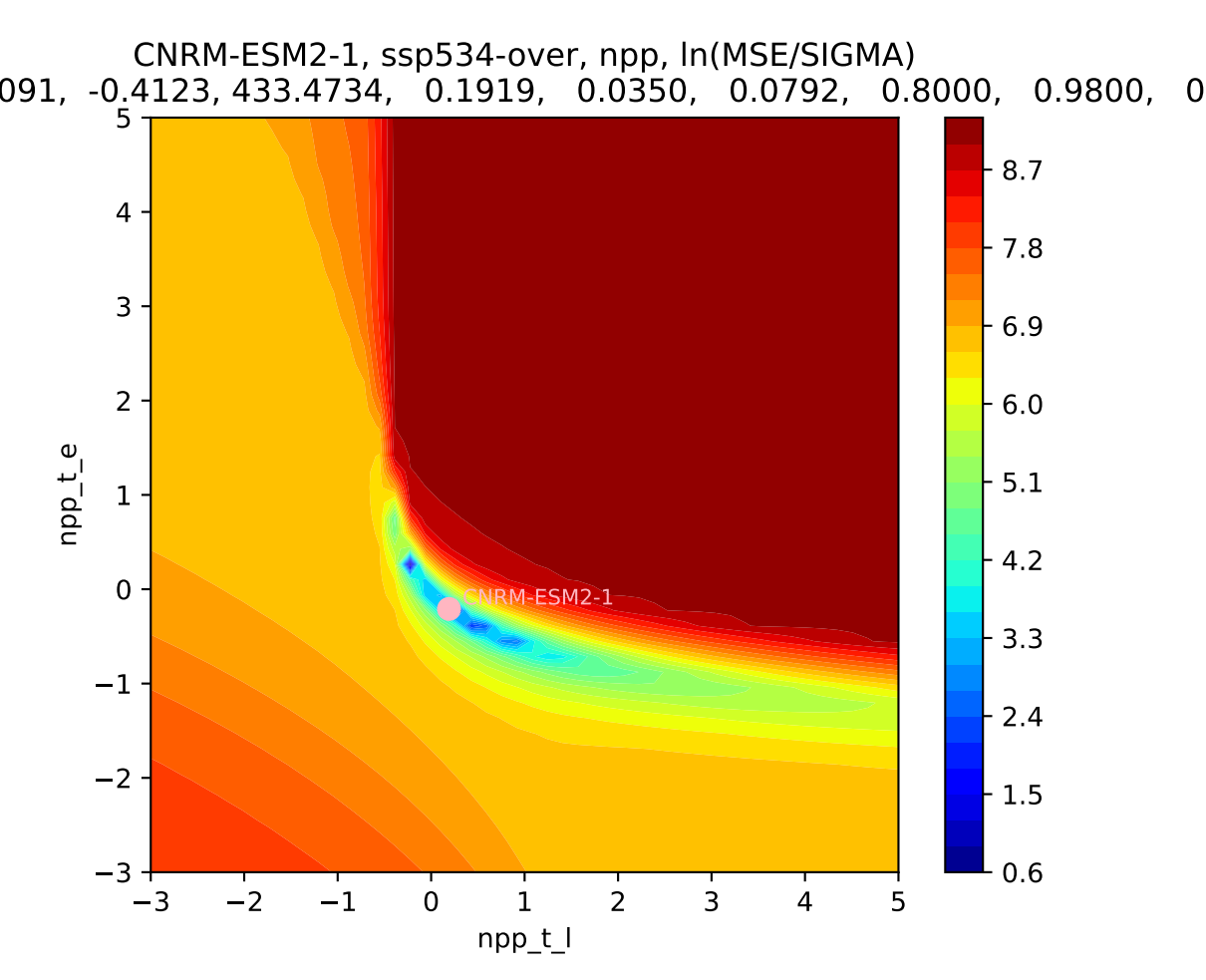

CNRM-ESM2-1, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
Year

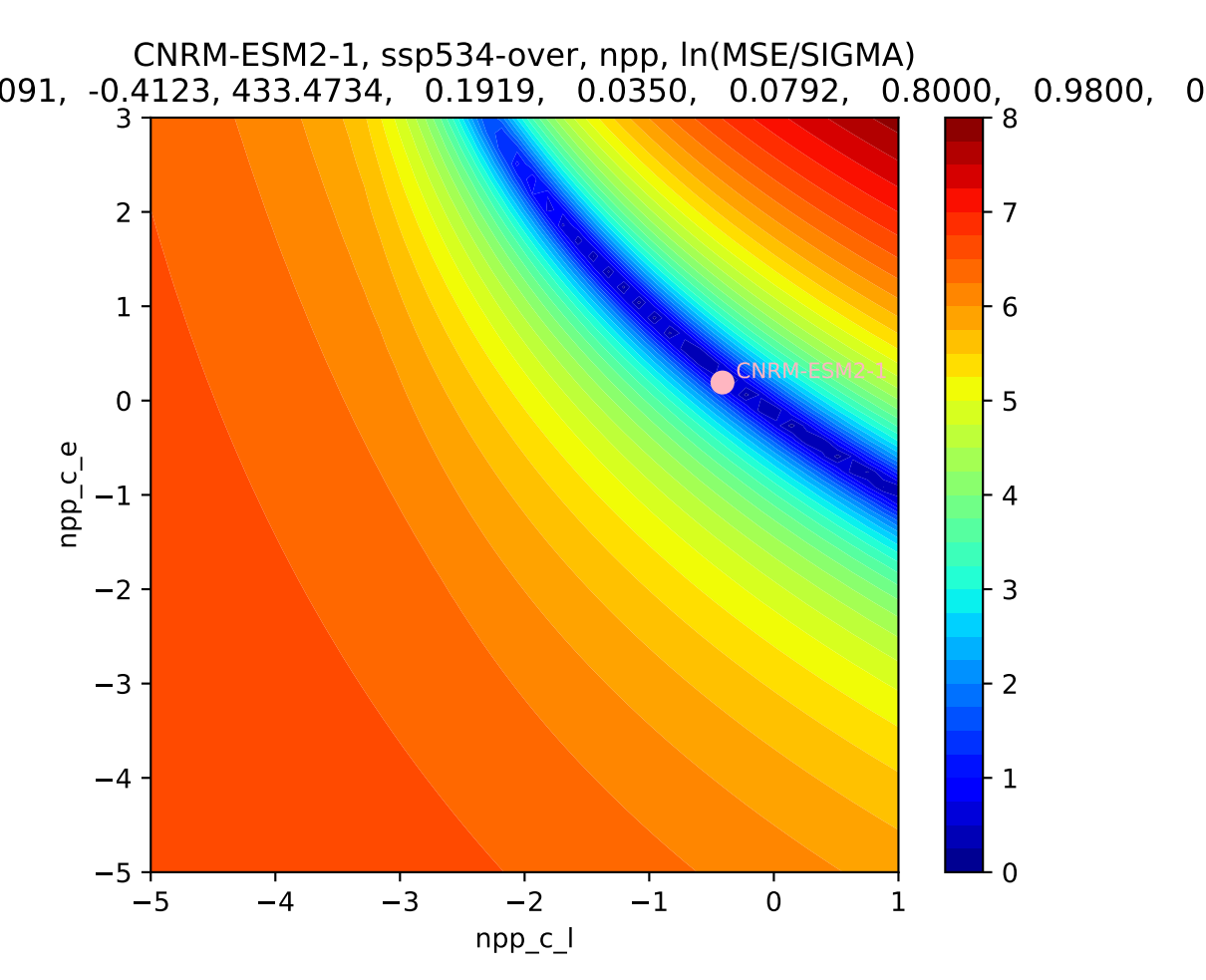

CNRM-ESM2-1, ssp534-over, npp
ESM
Fit
npp
ΔT

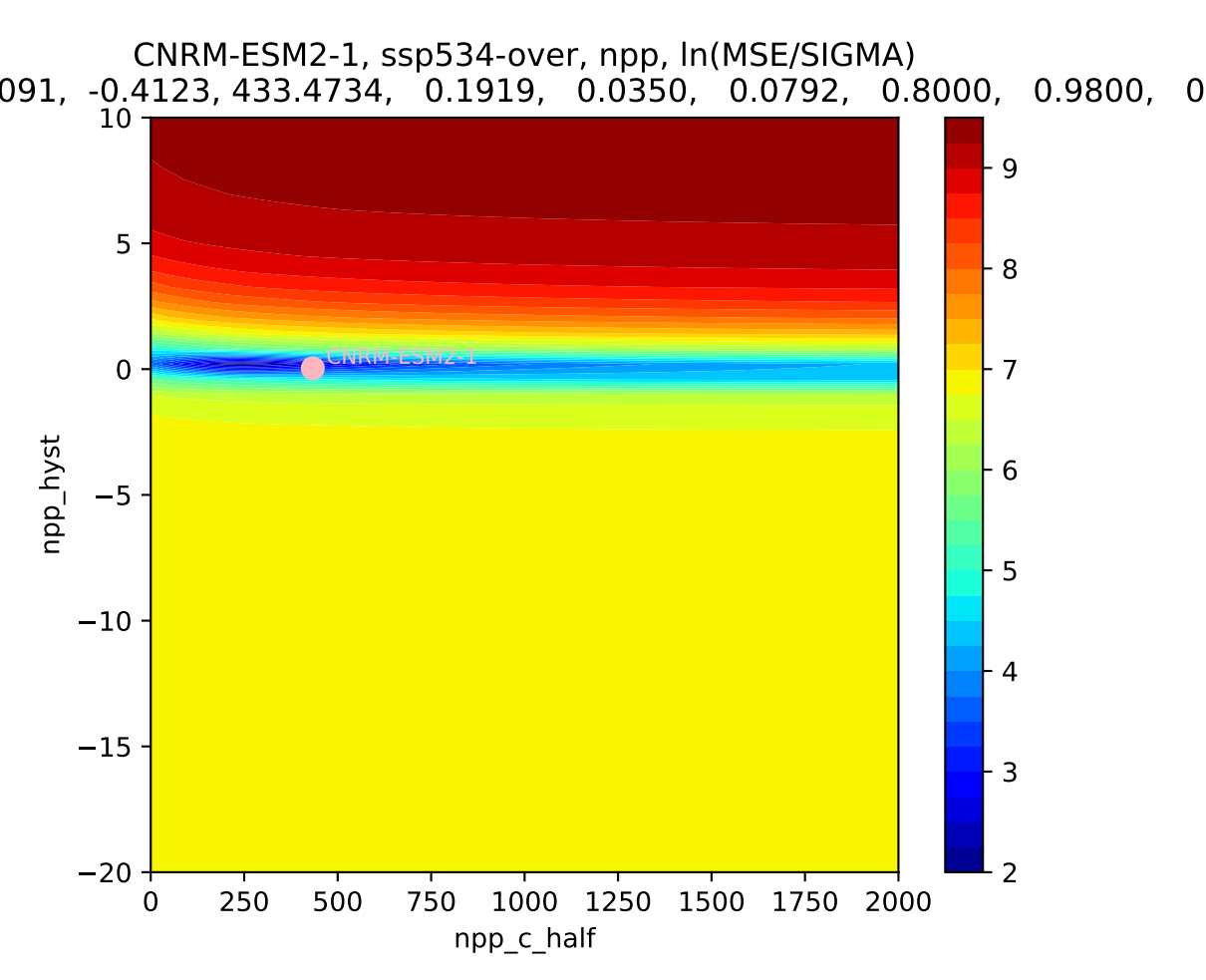

CNRM-ESM2-1, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
ΔT

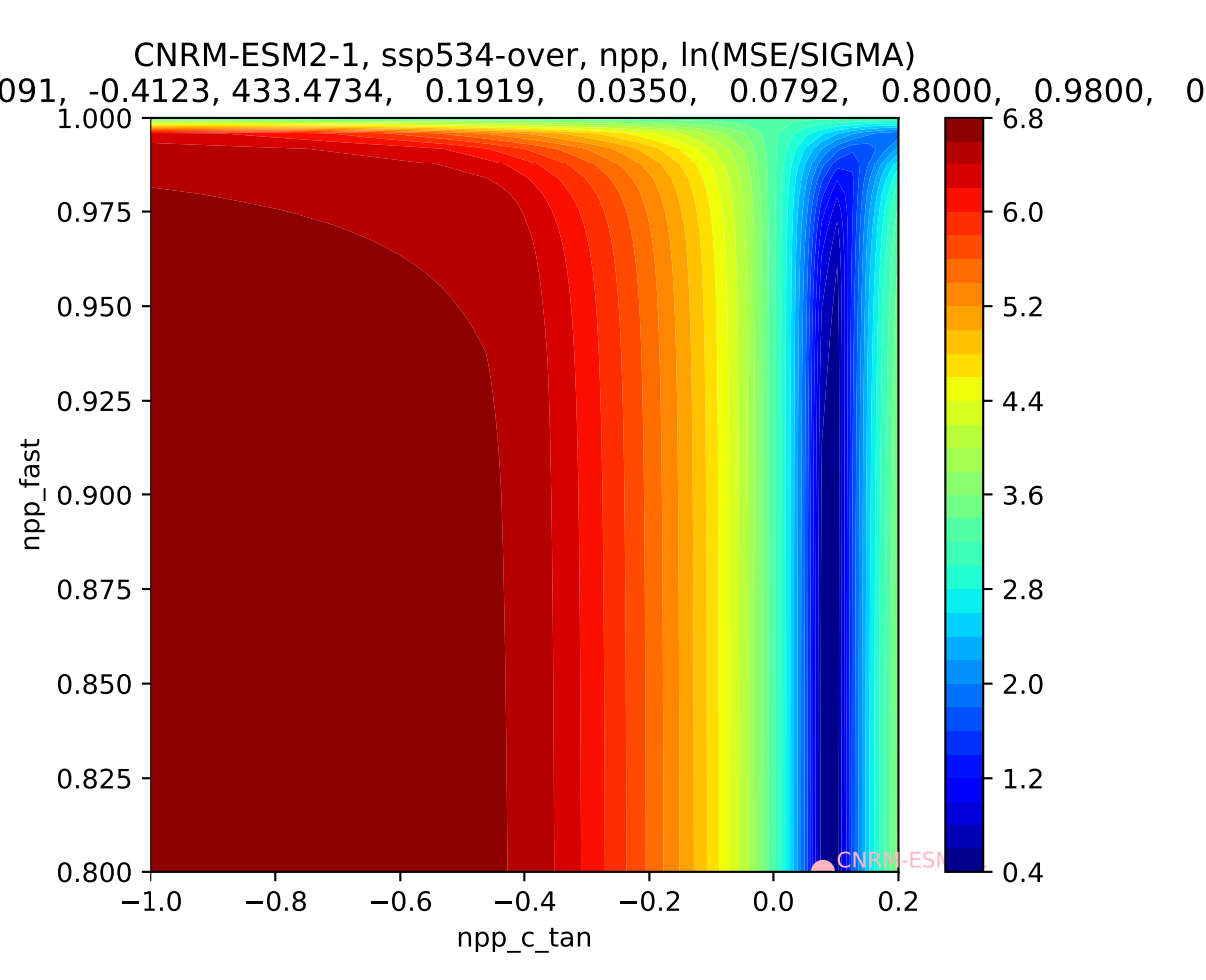

CNRM-ESM2-1, ssp534-over, npp
ESM
Fit
npp
c_atm

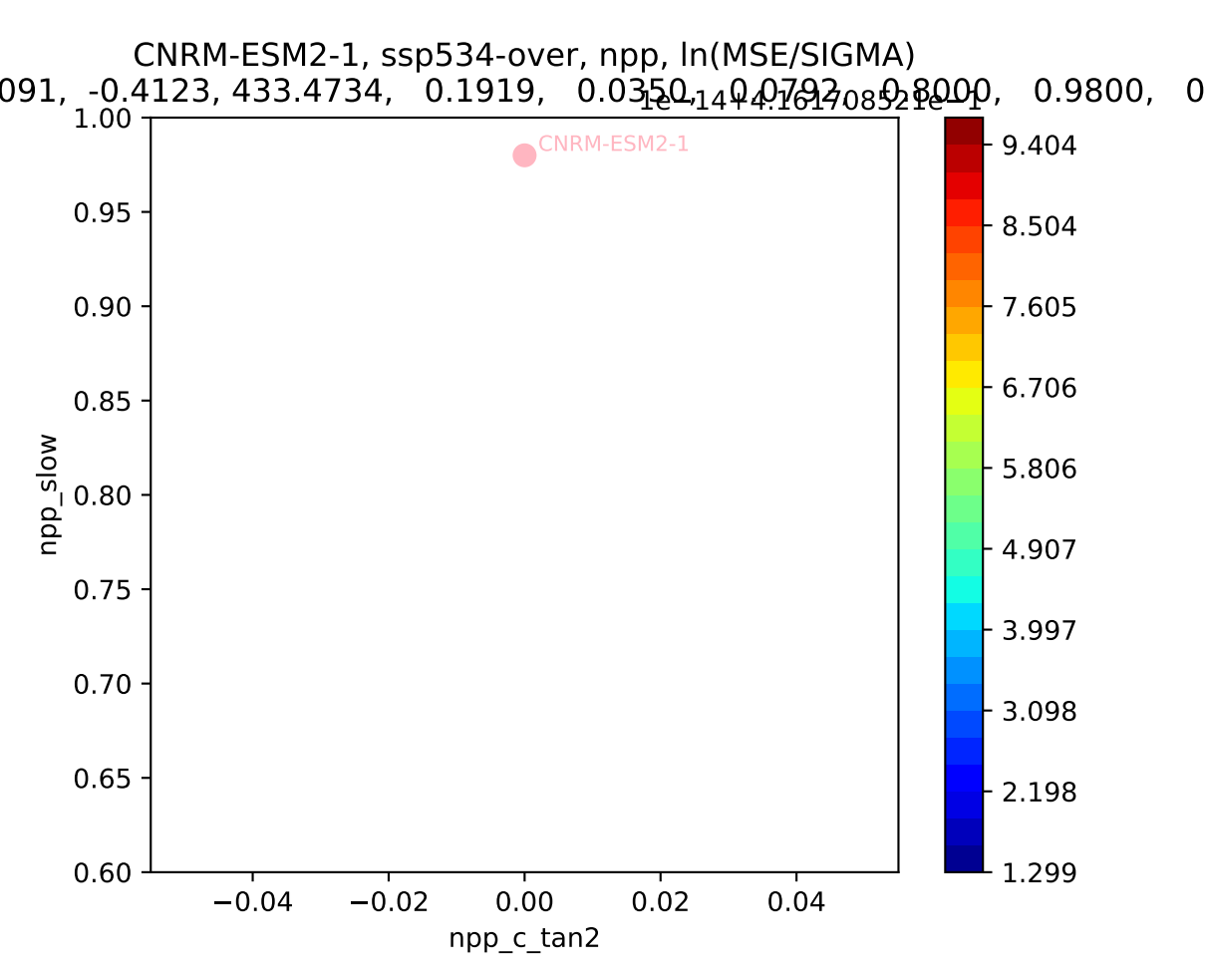

CNRM-ESM2-1, ssp534-over, npp
ESM-Fit
npp, ESM - FIT
c_atm

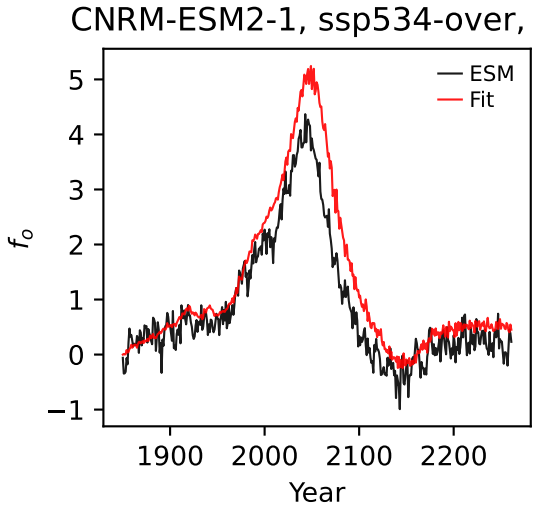

CNRM-ESM2-1, ssp534-over, npp, ln(MSE/SIGMA)
091, -0.4123, 433.4734, 0.1919, 0.0350, 0.0792, 0.8000, 0.9800, 0
CNRM-ESM2-1
npp_t_e
npp_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
8.7
7.8
6.9
6.0
5.1
4.2
3.3
2.4
1.5
0.6

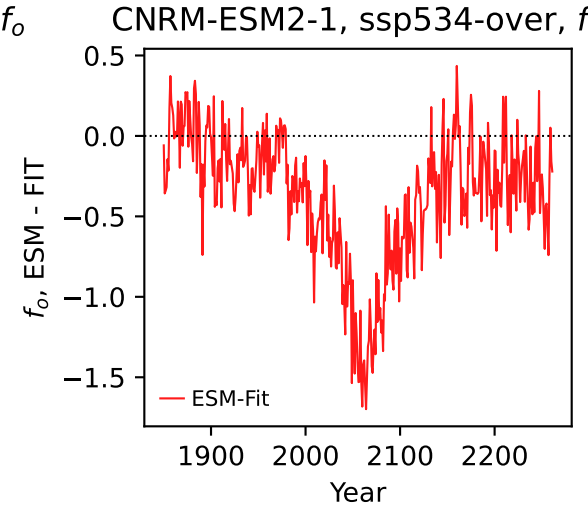

CNRM-ESM2-1, ssp534-over, npp, ln(MSE/SIGMA)
091, -0.4123, 433.4734, 0.1919, 0.0350, 0.0792, 0.8000, 0.9800, 0
CNRM-ESM2-1
npp_c_e
npp_c_l
3
2
1
0
−1
−2
−3
−4
−5
−5
−4
−3
−2
−1
0
1
8
7
6
5
4
3
2
1
0

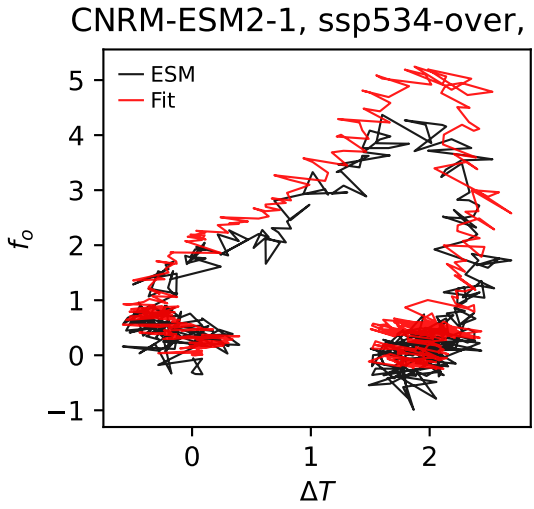

CNRM-ESM2-1, ssp534-over, npp, ln(MSE/SIGMA)
091, -0.4123, 433.4734, 0.1919, 0.0350, 0.0792, 0.8000, 0.9800, 0
CNRM-ESM2-1
npp_hyst
npp_c_half
10
5
0
−5
−10
−15
−20
0
250
500
750
1000
1250
1500
1750
2000
9
8
7
6
5
4
3
2

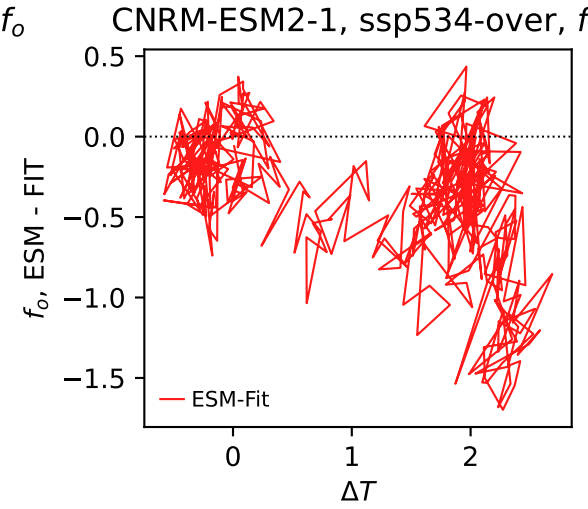

CNRM-ESM2-1, ssp534-over, npp, ln(MSE/SIGMA)
091, -0.4123, 433.4734, 0.1919, 0.0350, 0.0792, 0.8000, 0.9800, 0
1.000
0.975
0.950
0.925
0.900
0.875
0.850
0.825
0.800
npp_fast
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
npp_c_tan
6.8
6.0
5.2
4.4
3.6
2.8
2.0
1.2
0.4

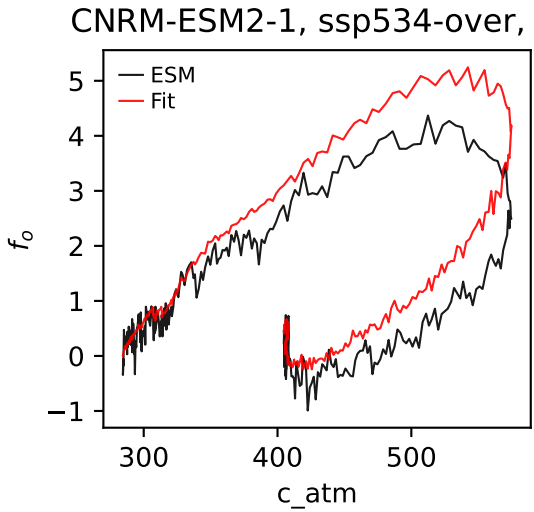

CNRM-ESM2-1, ssp534-over, npp, ln(MSE/SIGMA)
091, -0.4123, 433.4734, 0.1919, 0.0350, 0.0792, 0.8000, 0.9800, 0
1e−1 4.1617085 21e−1
CNRM-ESM2-1
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
−0.04
−0.02
0.00
0.02
0.04
npp_c_tan2
9.404
8.504
7.605
6.706
5.806
4.907
3.997
3.098
2.198
1.299

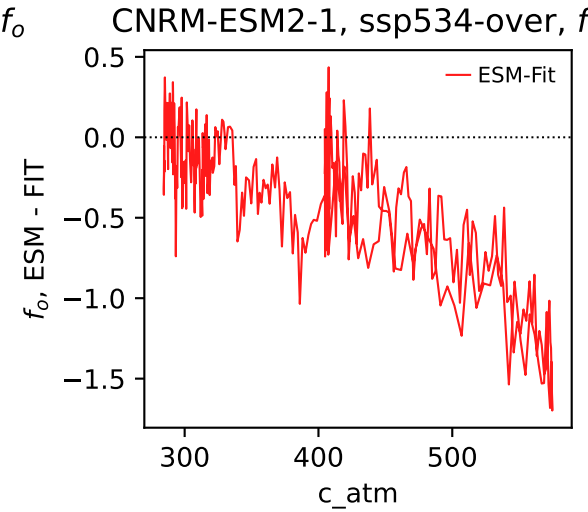

CNRM-ESM2-1, ssp534-over, f_o
ESM
Fit
f_o
Year

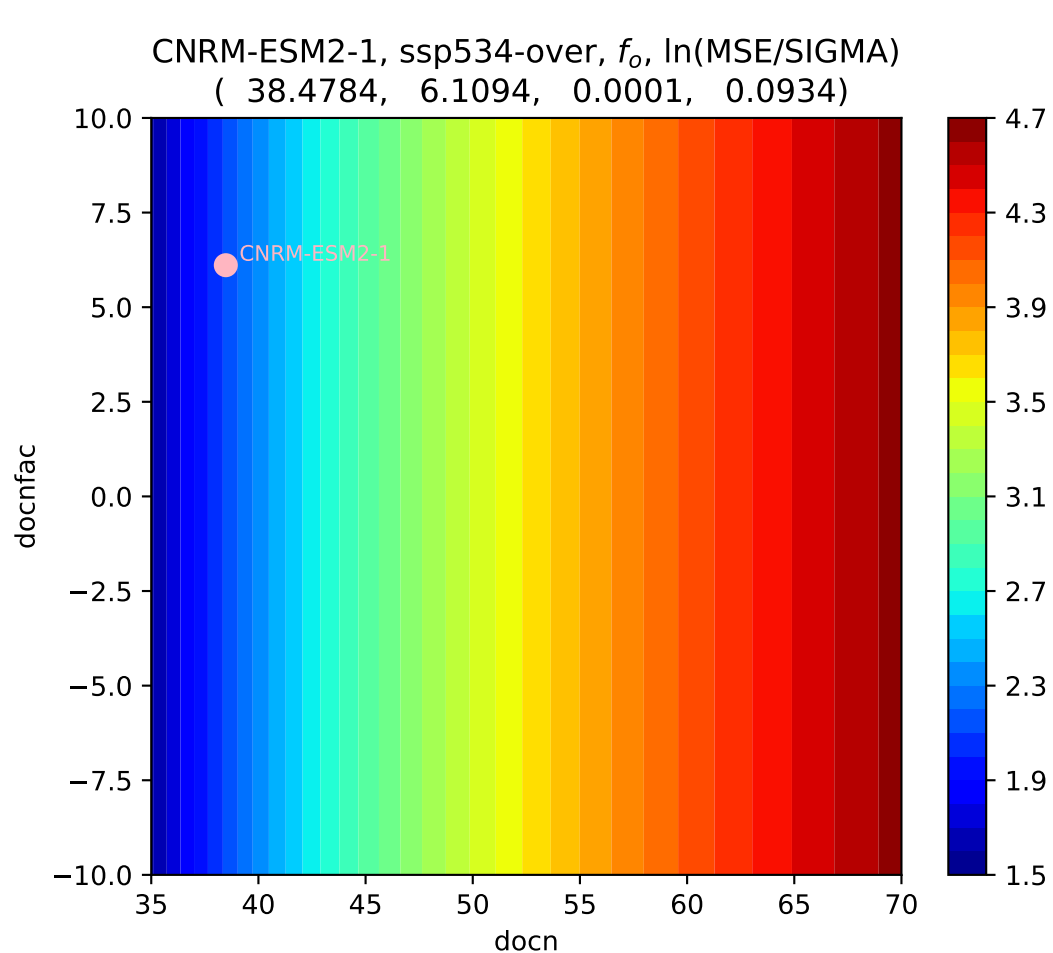

CNRM-ESM2-1, ssp534-over, f_o
f_o, ESM - FIT
ESM-Fit
Year

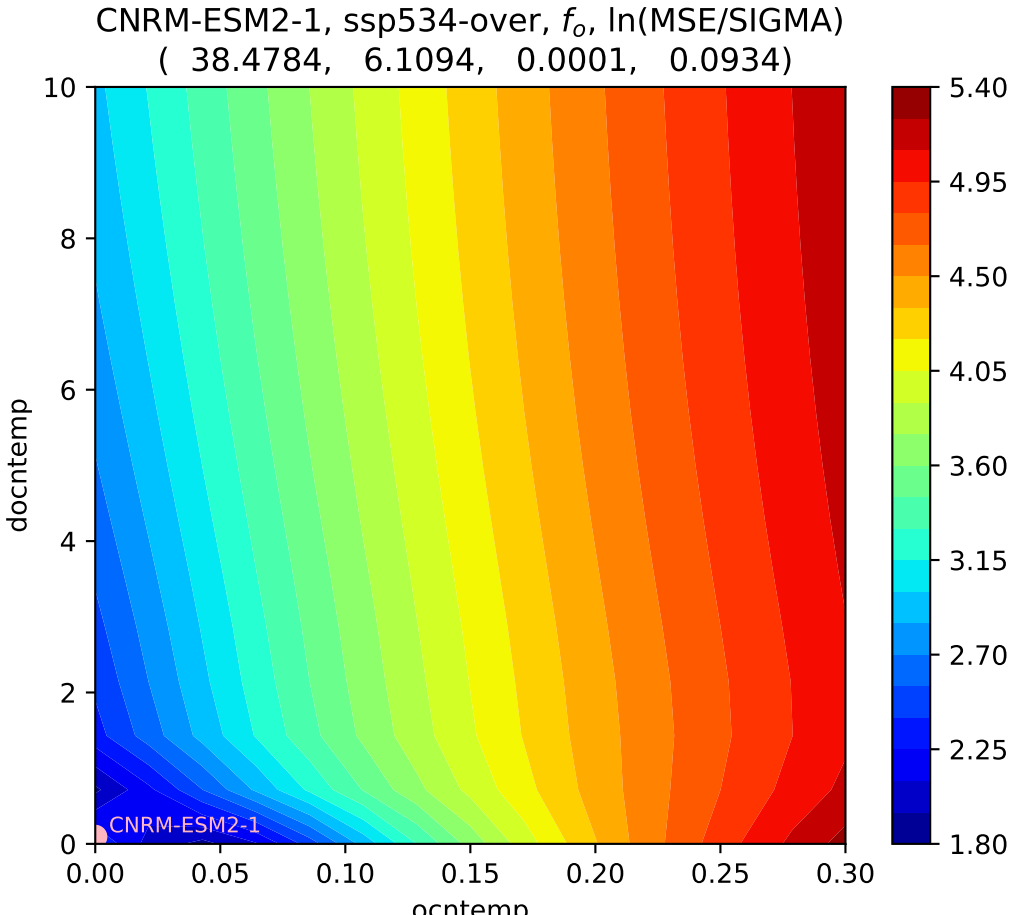

CNRM-ESM2-1, ssp534-over, f_o
ESM
Fit
f_o
ΔT


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)
(38.4784, 6.1094, 0.0001, 0.0934)
CNRM-ESM2-1
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
4.7
4.3
3.9
3.5
3.1
2.7
2.3
1.9
1.5


CNRM-ESM2-1, ssp534-over, f_o, ln(MSE/SIGMA)
(38.4784, 6.1094, 0.0001, 0.0934)
docntemp
ocntemp
CNRM-ESM2-1
0
2
4
6
8
10
0.00
0.05
0.10
0.15
0.20
0.25
0.30
5.40
4.95
4.50
4.05
3.60
3.15
2.70
2.25
1.80