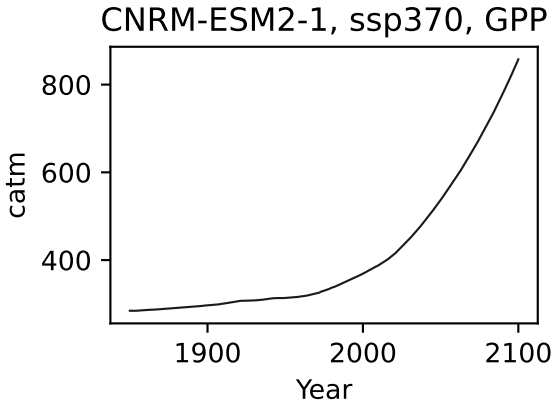
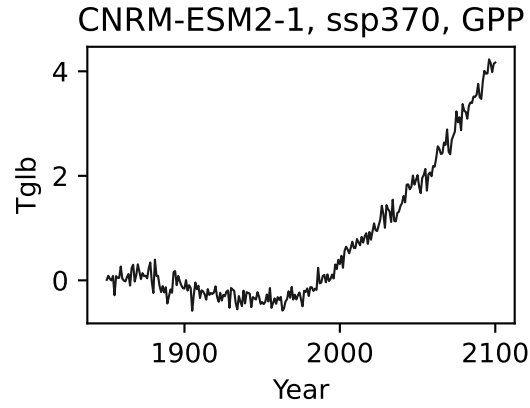
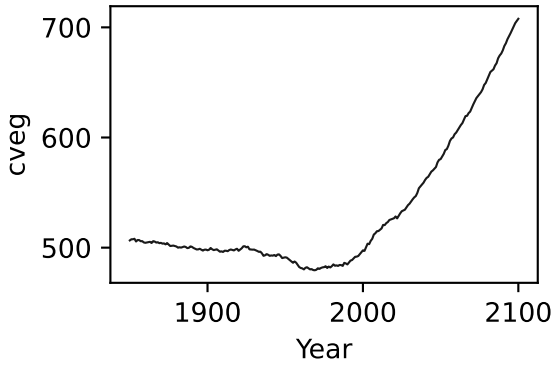
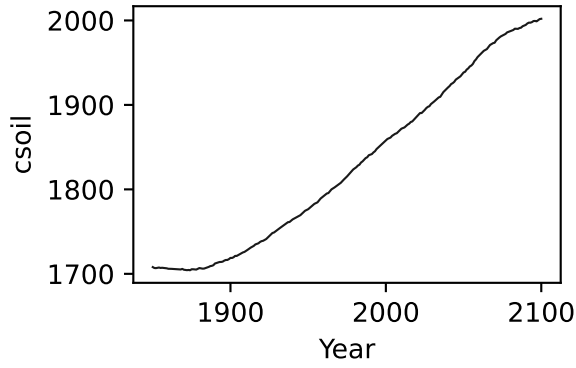
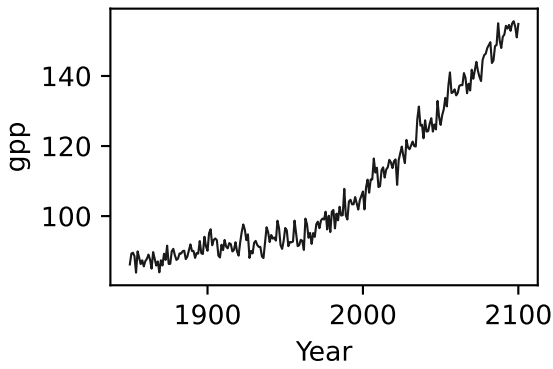
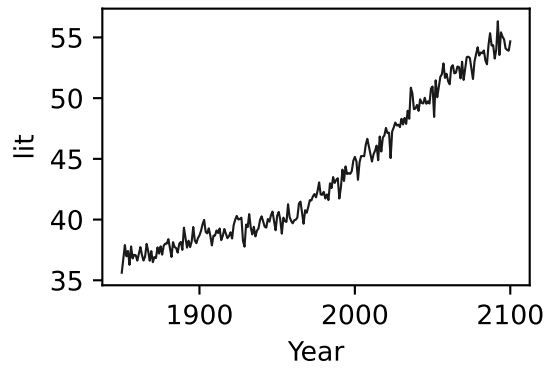

CNRM-ESM2-1, ssp370, GPP
catm
800
600
400
1900
2000
2100
Year

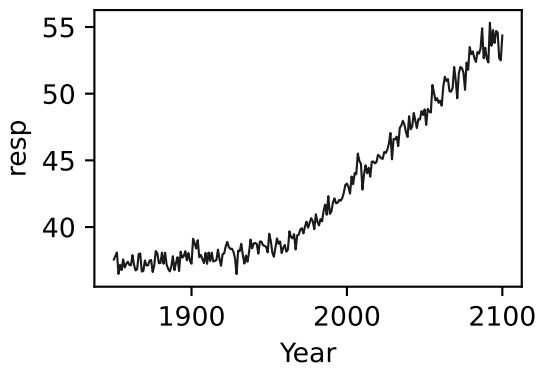

CNRM-ESM2-1, ssp370, GPP
Tglb
4
2
0
1900
2000
2100
Year

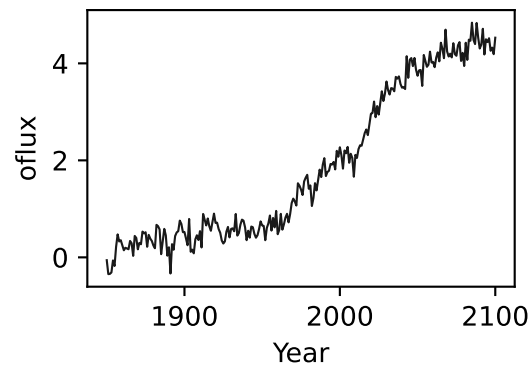

cveg
700
600
500
1900
2000
2100
Year

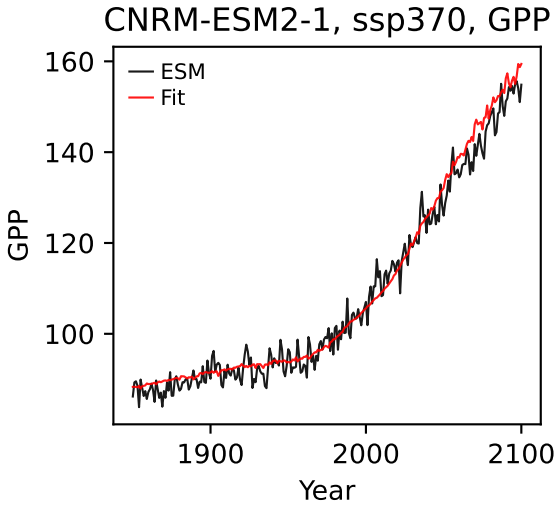

csoil
2000
1900
1800
1700
1900
2000
2100
Year

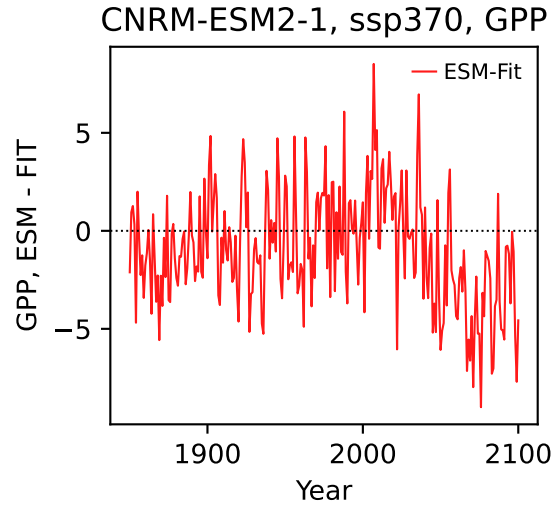

gpp
140
120
100
1900
2000
2100
Year

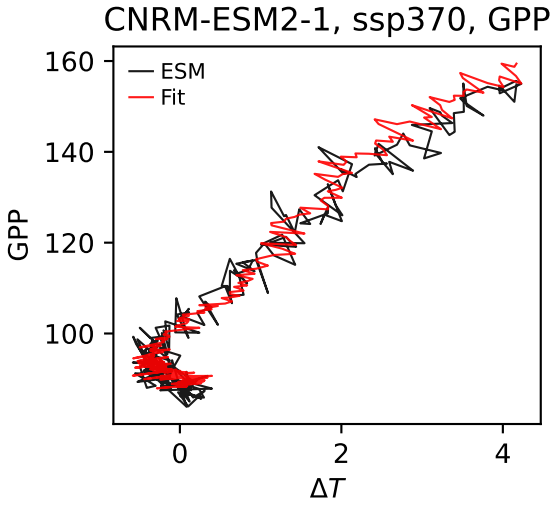

lit
55
50
45
40
35
1900
2000
2100
Year

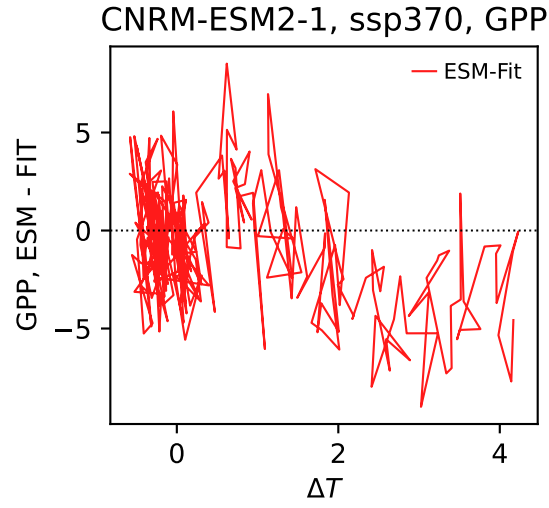

resp
55
50
45
40
1900
2000
2100
Year

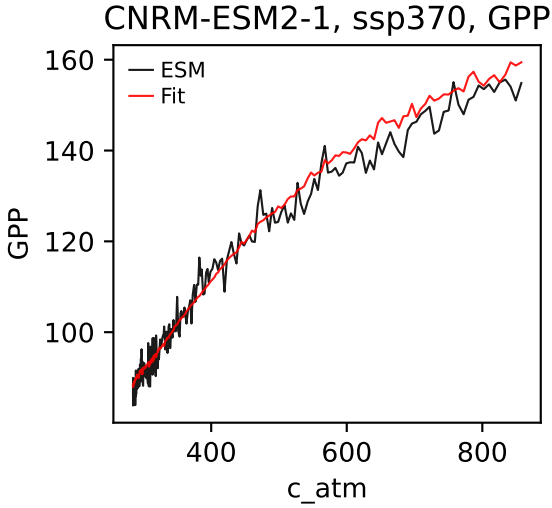

oflux
4
2
0
1900
2000
2100
Year

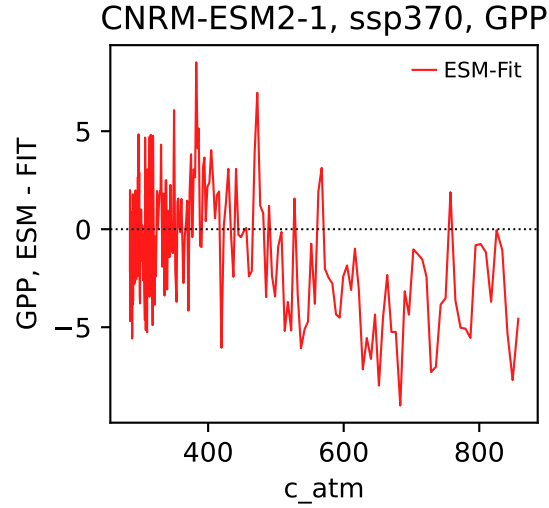

CNRM-ESM2-1, ssp370, GPP
ESM
Fit
GPP
Year

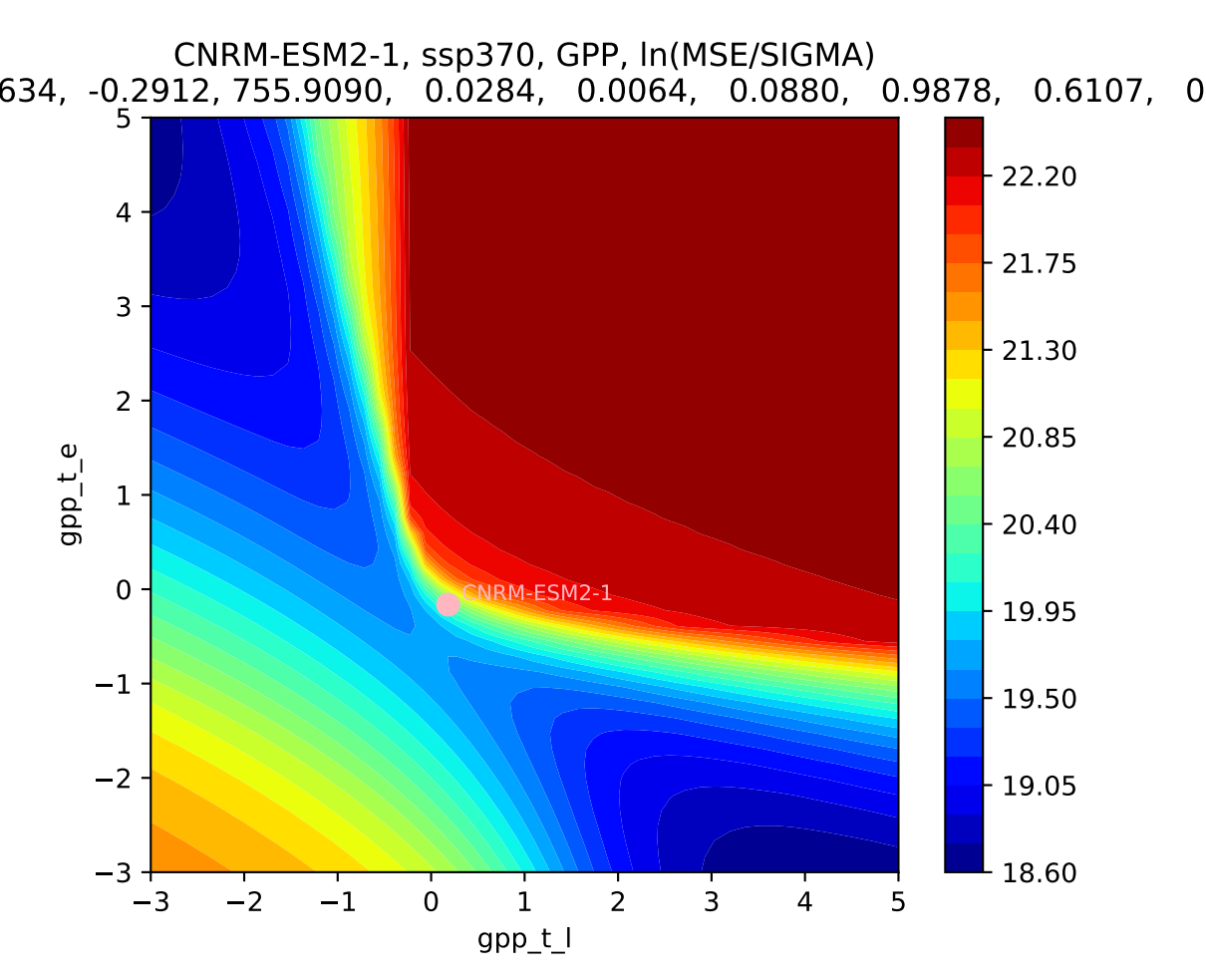

CNRM-ESM2-1, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
Year

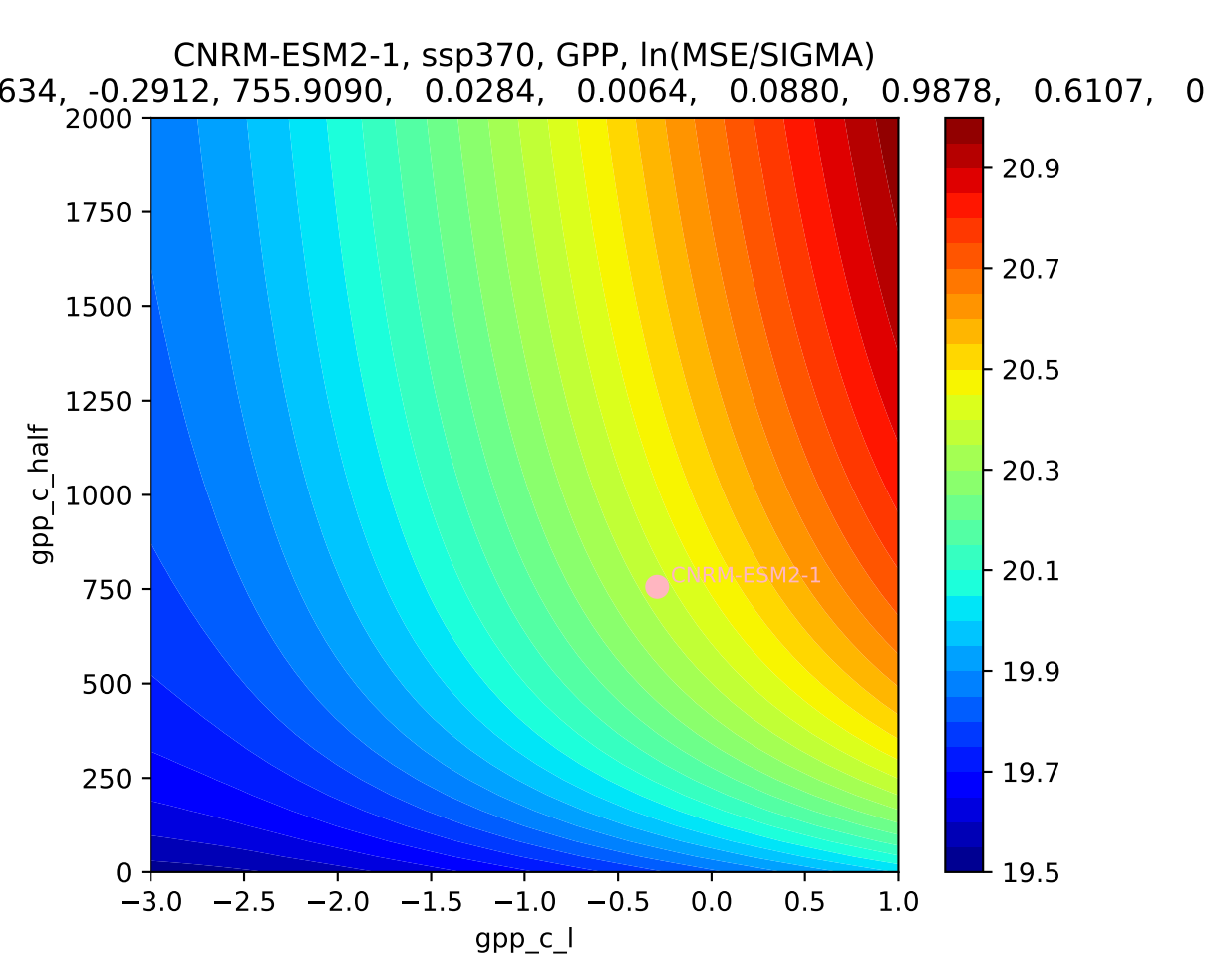

CNRM-ESM2-1, ssp370, GPP
ESM
Fit
GPP
ΔT

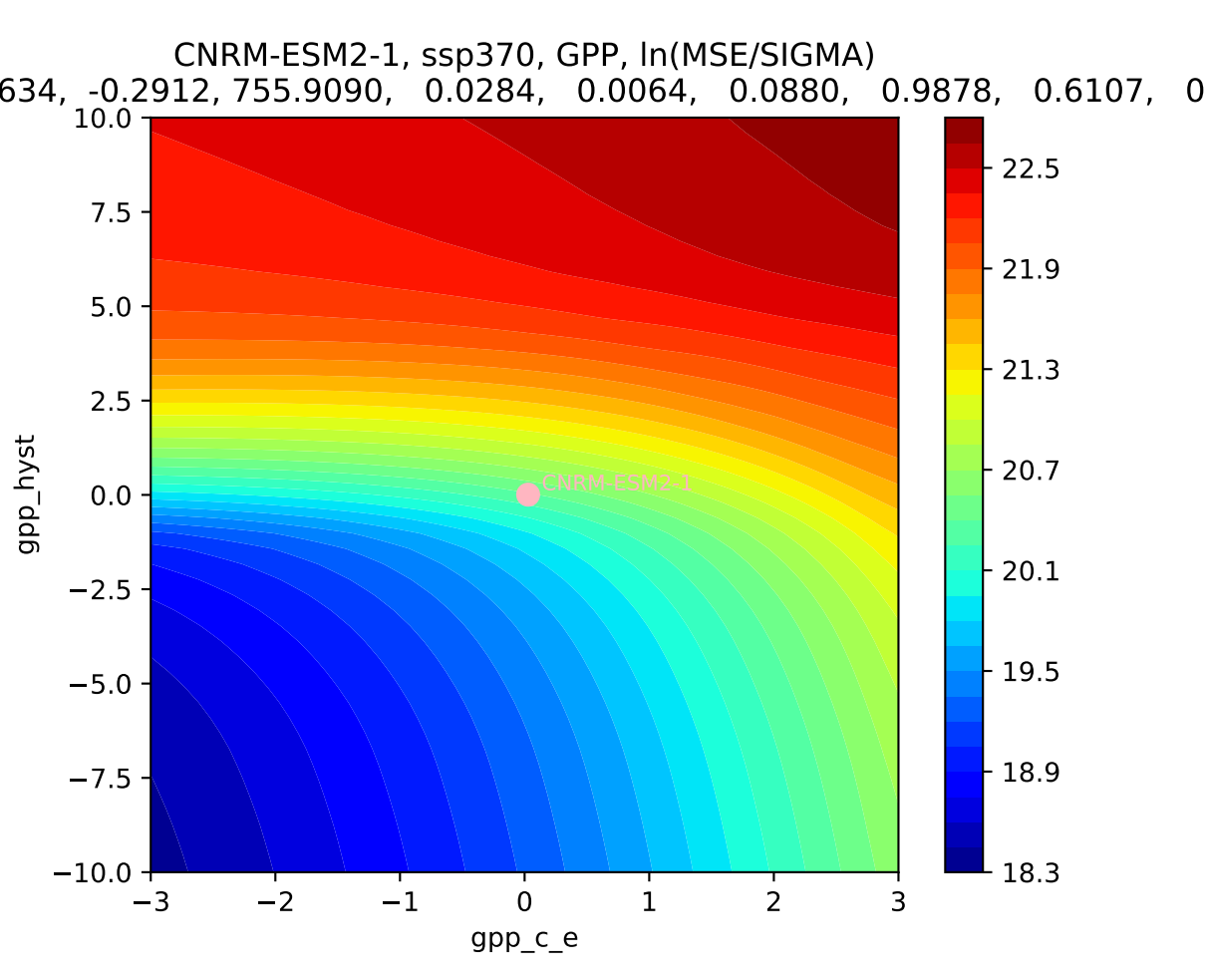

CNRM-ESM2-1, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
ΔT

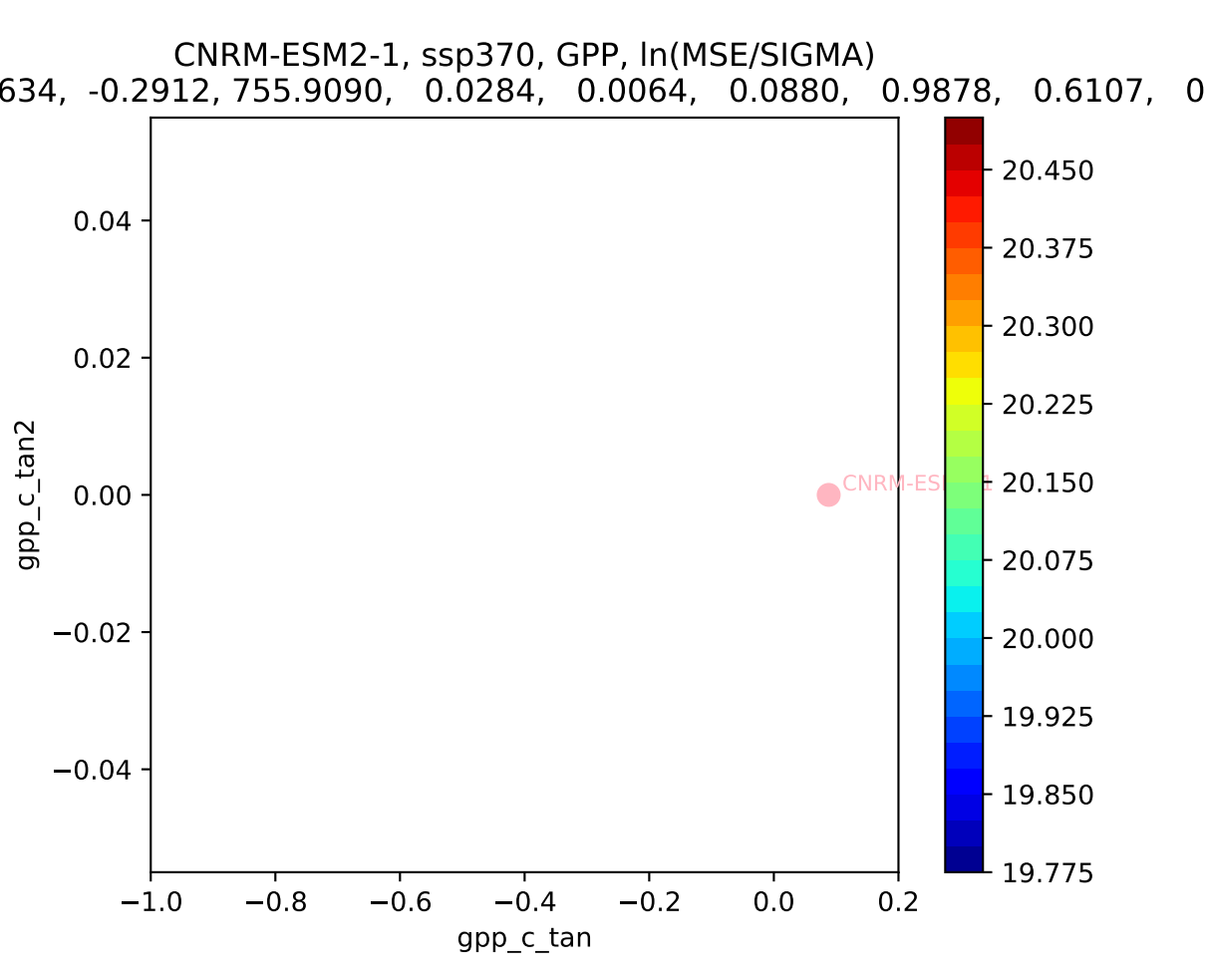

CNRM-ESM2-1, ssp370, GPP
ESM
Fit
GPP
c_atm

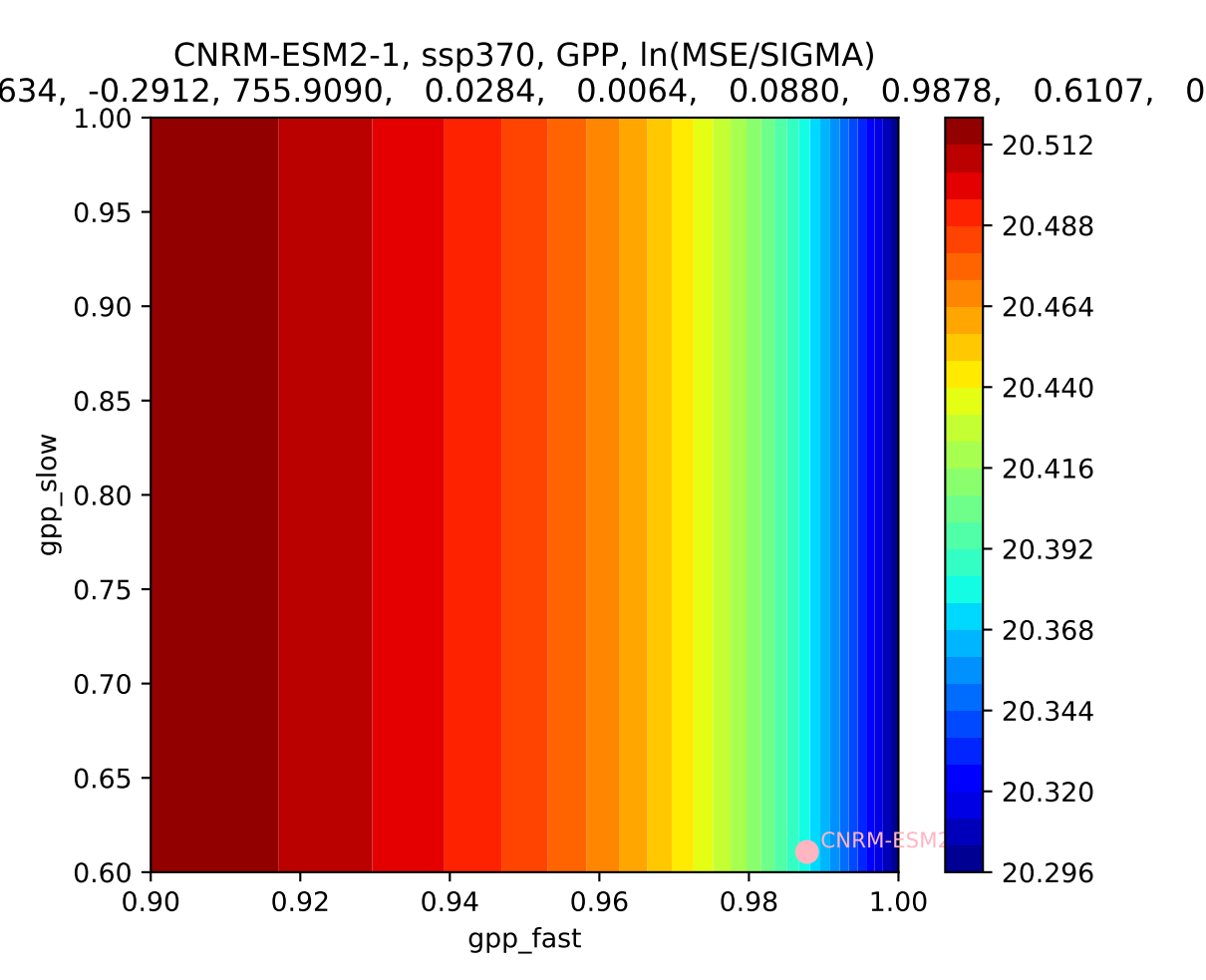

CNRM-ESM2-1, ssp370, GPP
ESM-Fit
GPP, ESM - FIT
c_atm

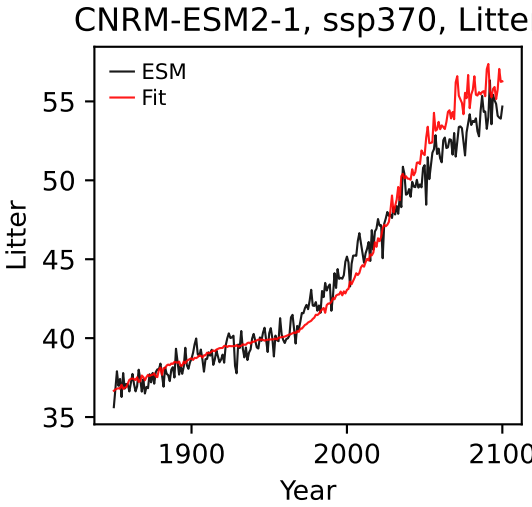

CNRM-ESM2-1, ssp370, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9090, 0.0284, 0.0064, 0.0880, 0.9878, 0.6107, 0
CNRM-ESM2-1
gpp_t_e
gpp_t_l
22.20
21.75
21.30
20.85
20.40
19.95
19.50
19.05
18.60

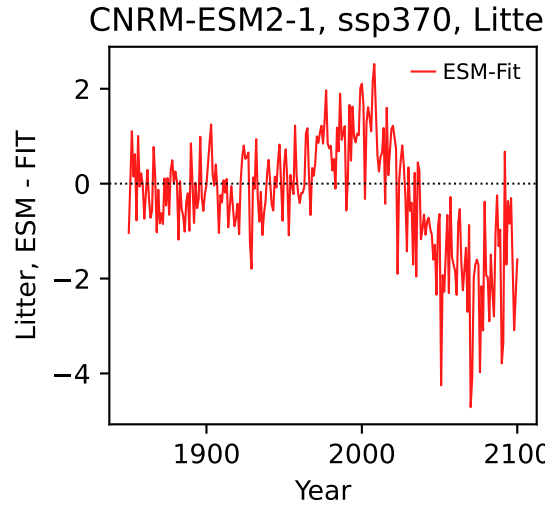

CNRM-ESM2-1, ssp370, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9090, 0.0284, 0.0064, 0.0880, 0.9878, 0.6107, 0
gpp_c_half
gpp_c_l
CNRM-ESM2-1
2000
1750
1500
1250
1000
750
500
250
0
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
20.9
20.7
20.5
20.3
20.1
19.9
19.7
19.5

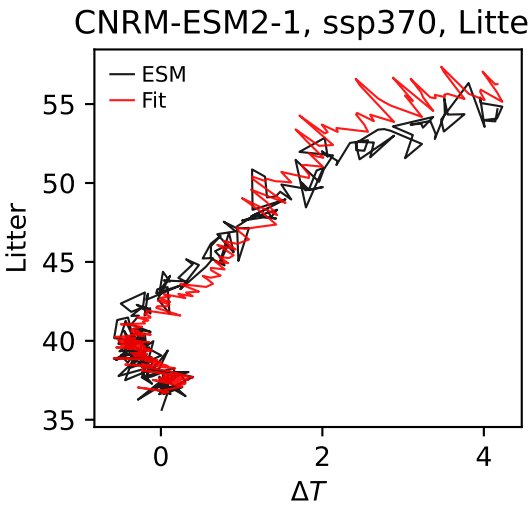

CNRM-ESM2-1, ssp370, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9090, 0.0284, 0.0064, 0.0880, 0.9878, 0.6107, 0
CNRM-ESM2-1
gpp_hyst
gpp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.5
21.9
21.3
20.7
20.1
19.5
18.9
18.3

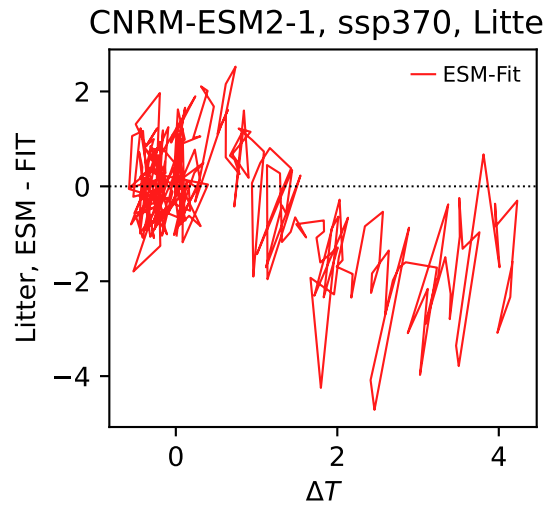

CNRM-ESM2-1, ssp370, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9090, 0.0284, 0.0064, 0.0880, 0.9878, 0.6107, 0
0.04
0.02
0.00
−0.02
−0.04
gpp_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
gpp_c_tan
20.450
20.375
20.300
20.225
20.150
20.075
20.000
19.925
19.850
19.775

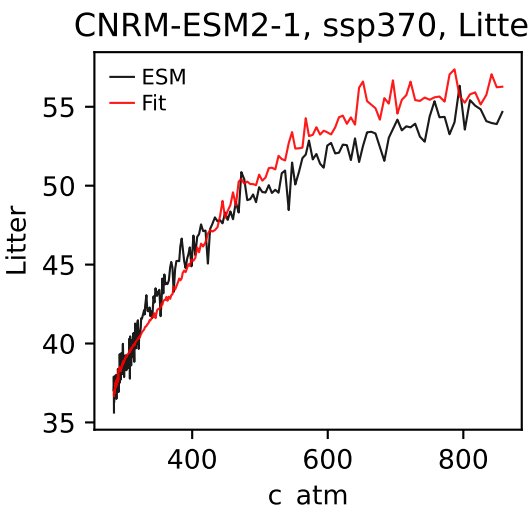

CNRM-ESM2-1, ssp370, GPP, ln(MSE/SIGMA)
634, -0.2912, 755.9090, 0.0284, 0.0064, 0.0880, 0.9878, 0.6107, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
gpp_slow
0.90
0.92
0.94
0.96
0.98
1.00
gpp_fast
20.512
20.488
20.464
20.440
20.416
20.392
20.368
20.344
20.320
20.296
CNRM-ESM2

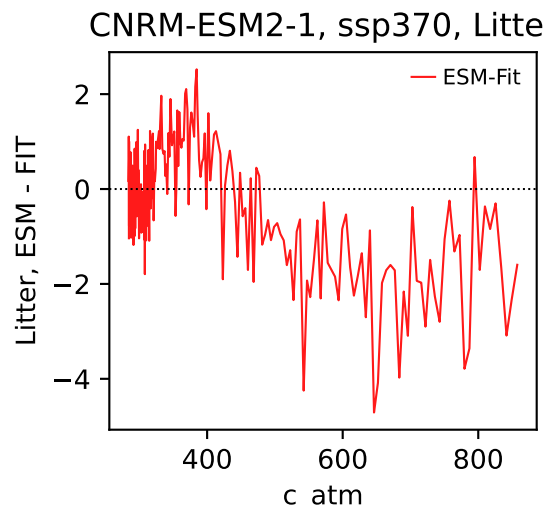

CNRM-ESM2-1, ssp370, Litter
ESM
Fit
Litter
Year
35
40
45
50
55
1900
2000
2100

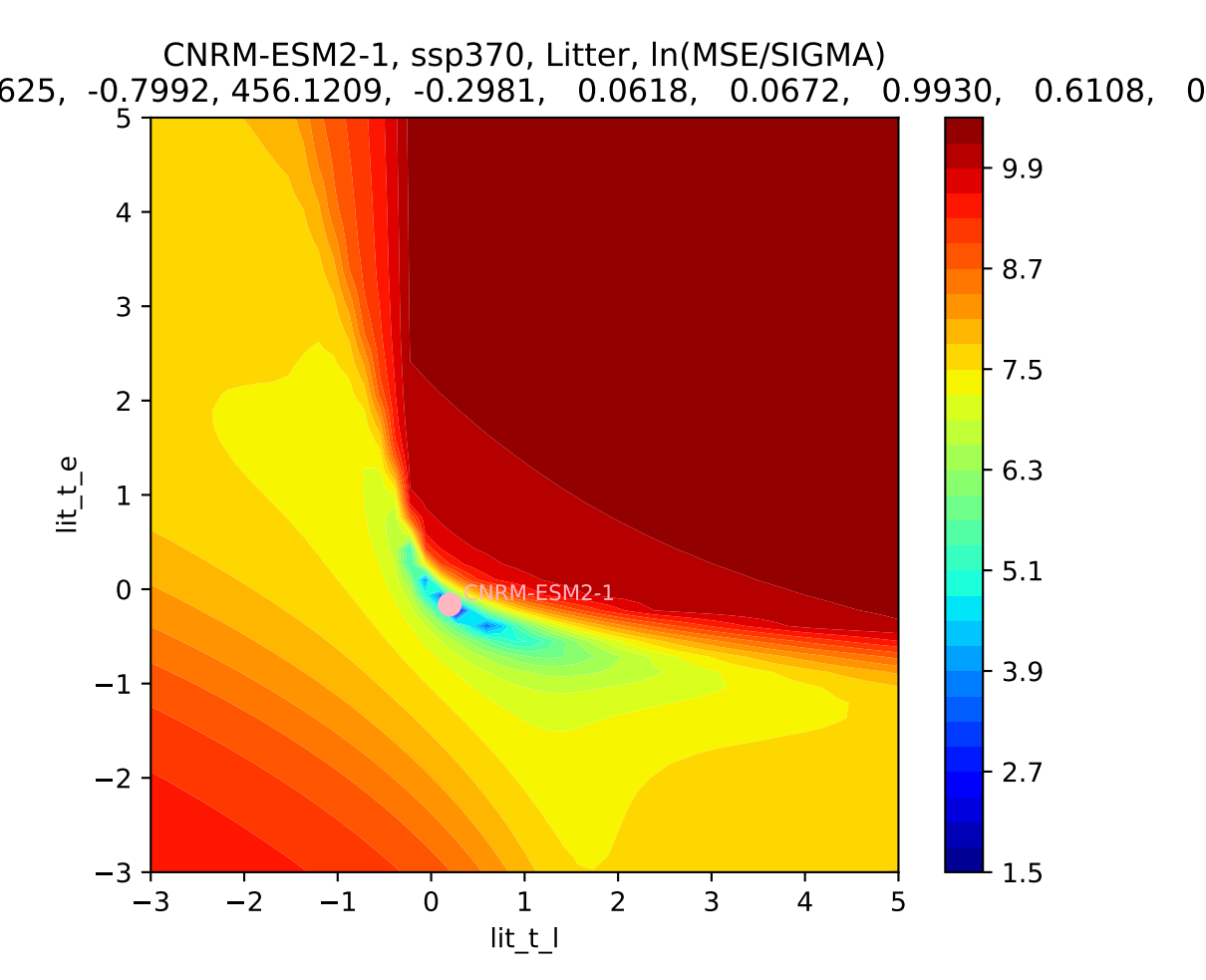

CNRM-ESM2-1, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
Year
−4
−2
0
2
1900
2000
2100

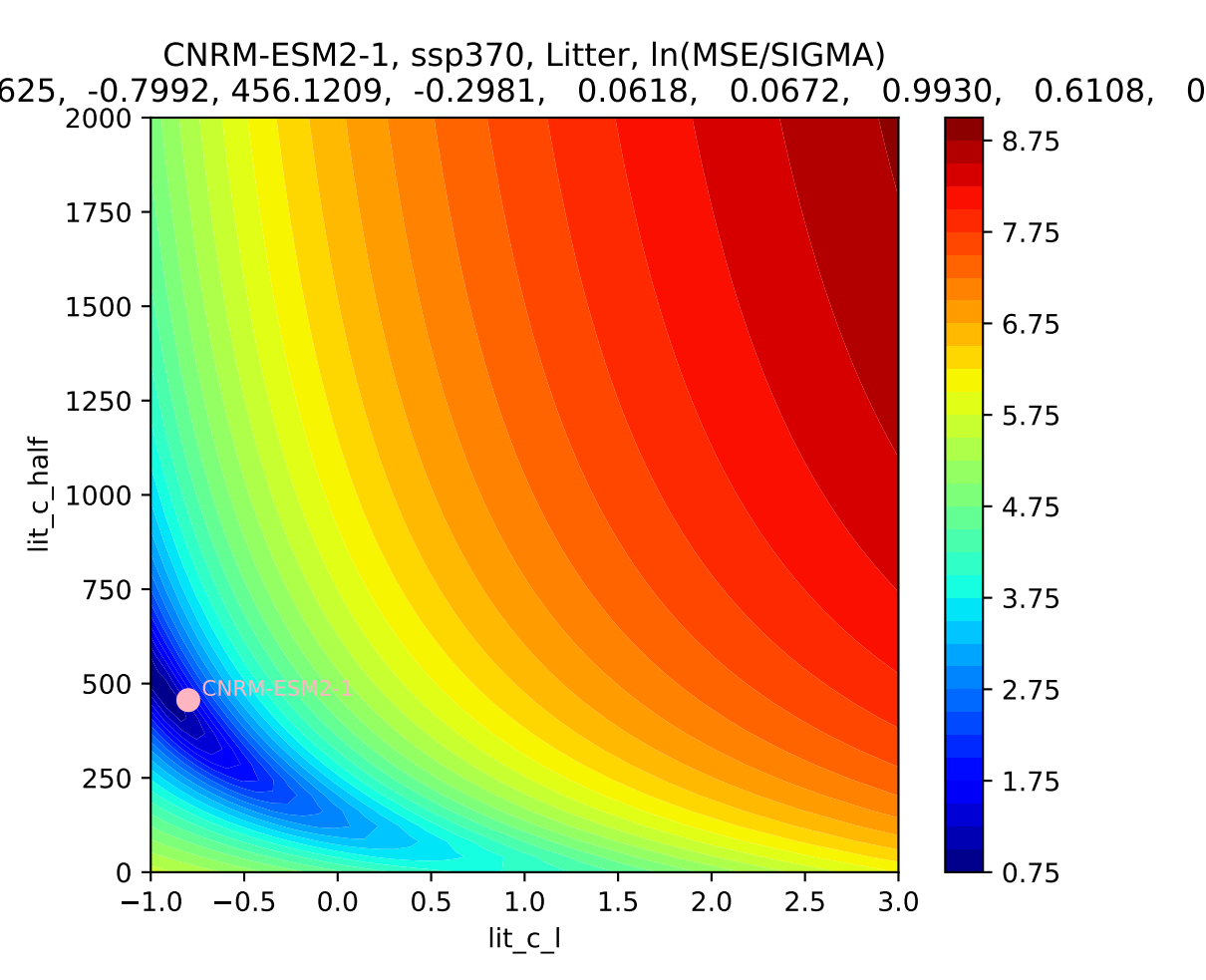

CNRM-ESM2-1, ssp370, Litter
ESM
Fit
Litter
ΔT
35
40
45
50
55
0
2
4

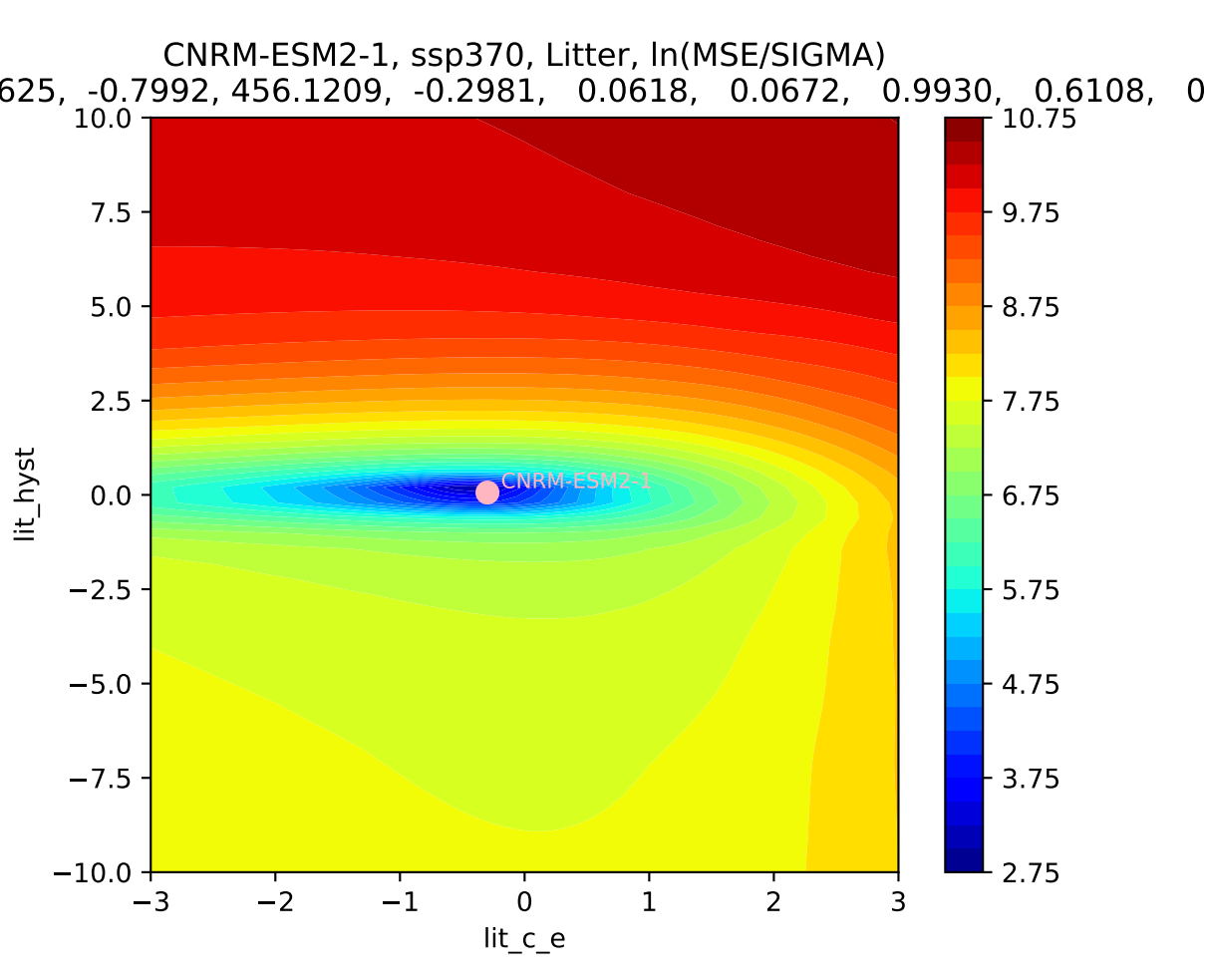

CNRM-ESM2-1, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
ΔT
−4
−2
0
2
0
2
4

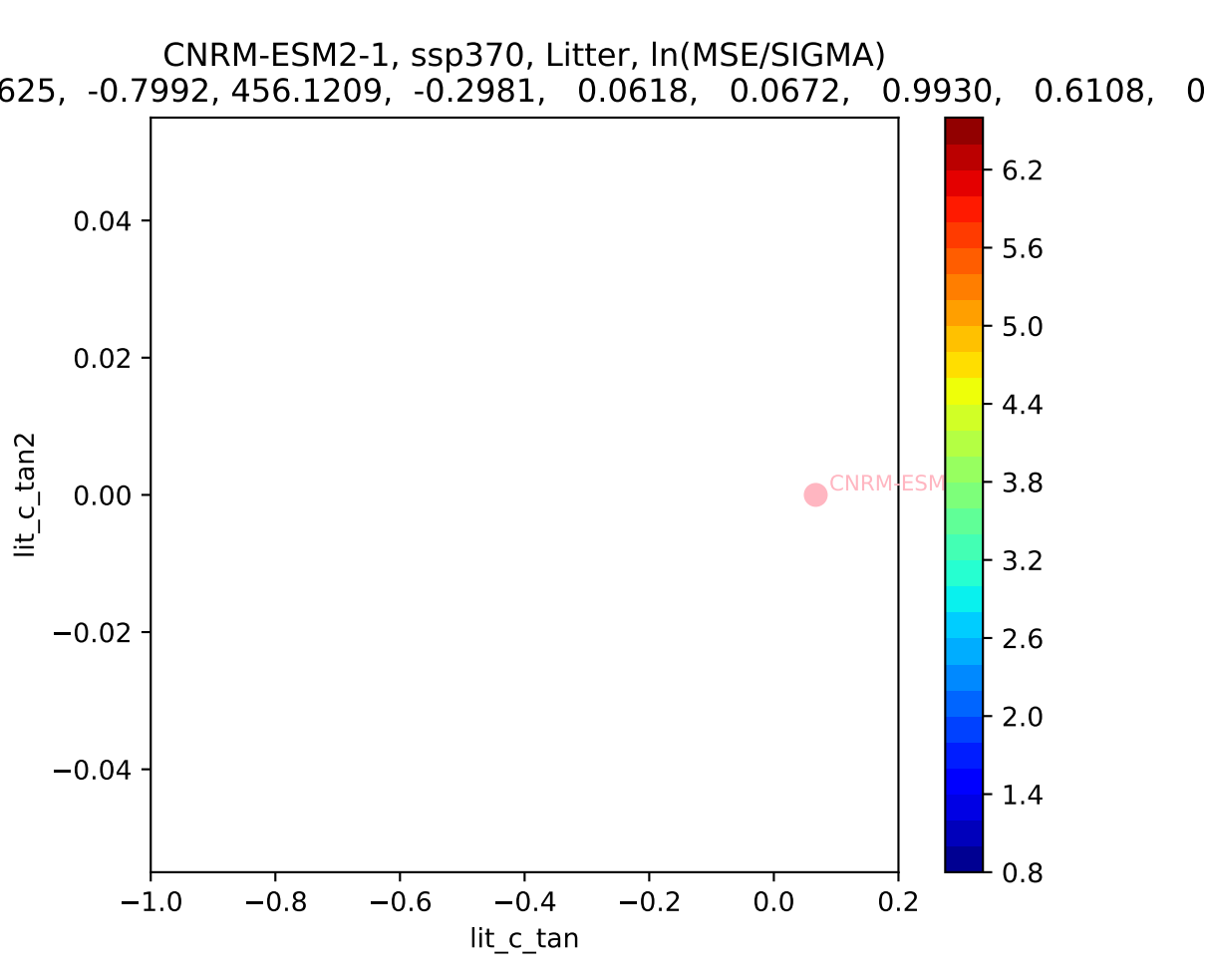

CNRM-ESM2-1, ssp370, Litter
ESM
Fit
Litter
c_atm
35
40
45
50
55
400
600
800

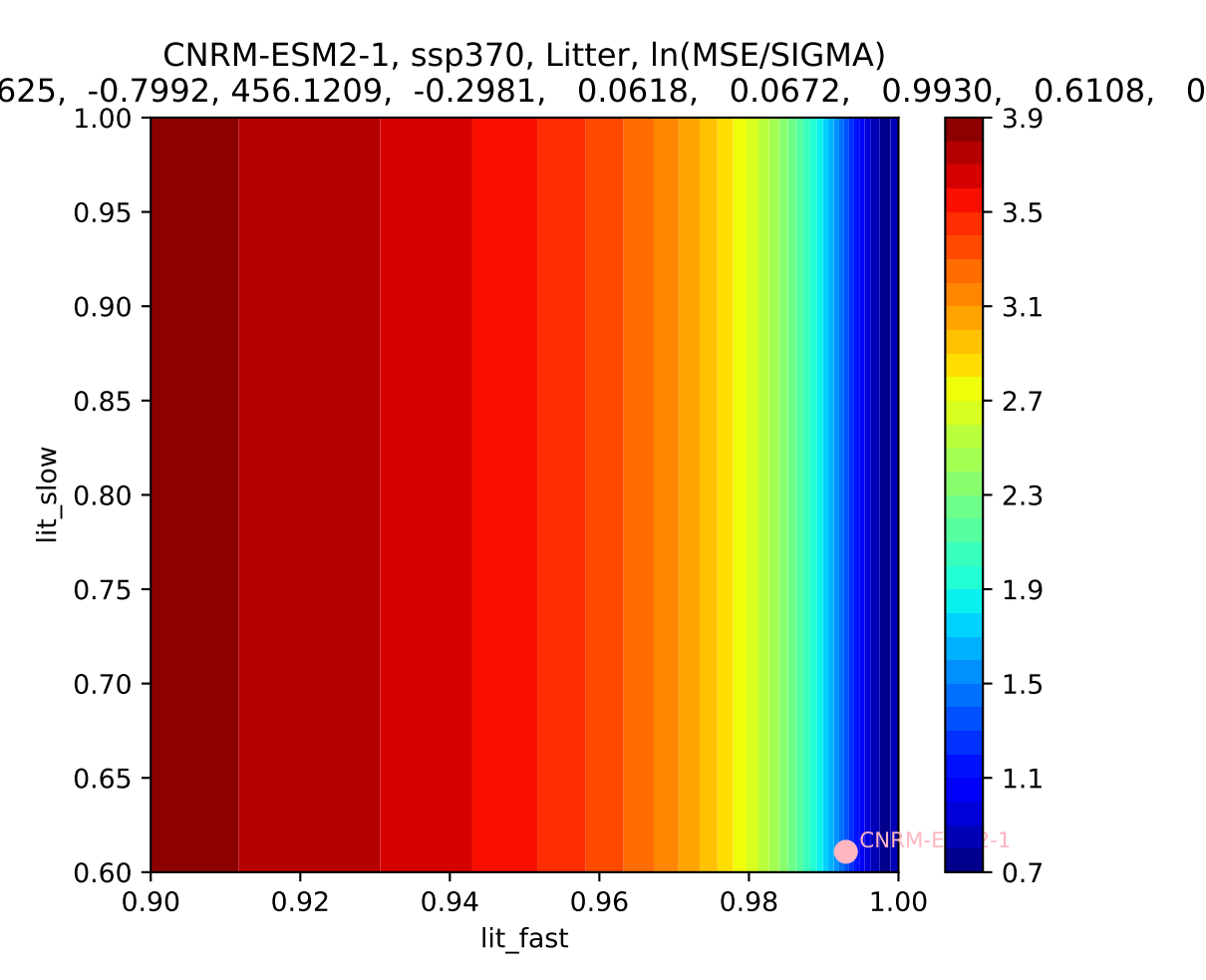

CNRM-ESM2-1, ssp370, Litter
ESM-Fit
Litter, ESM - FIT
c_atm
−4
−2
0
2
400
600
800

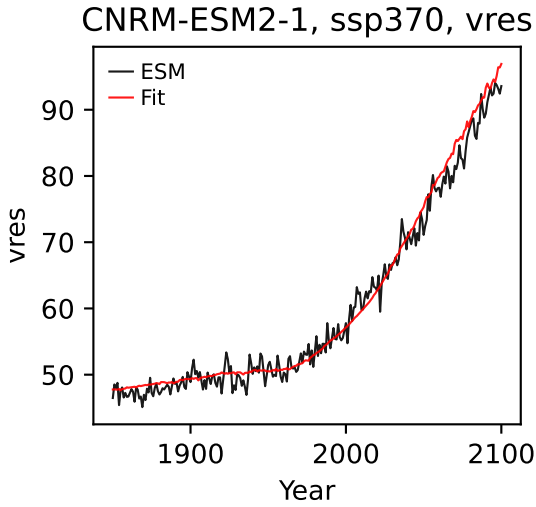

CNRM-ESM2-1, ssp370, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.1209, -0.2981, 0.0618, 0.0672, 0.9930, 0.6108, 0
CNRM-ESM2-1
lit_t_e
lit_t_l
5
4
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
4
5
9.9
8.7
7.5
6.3
5.1
3.9
2.7
1.5

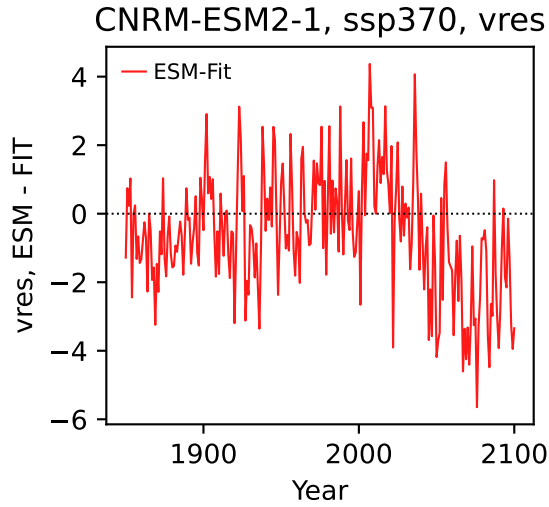

CNRM-ESM2-1, ssp370, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.1209, -0.2981, 0.0618, 0.0672, 0.9930, 0.6108, 0
lit_c_half
lit_c_l
CNRM-ESM2-1
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
8.75
7.75
6.75
5.75
4.75
3.75
2.75
1.75
0.75

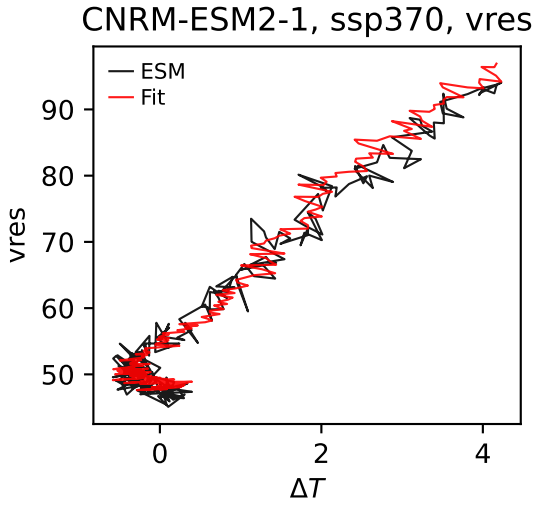

CNRM-ESM2-1, ssp370, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.1209, -0.2981, 0.0618, 0.0672, 0.9930, 0.6108, 0
CNRM-ESM2-1
lit_hyst
lit_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.75
9.75
8.75
7.75
6.75
5.75
4.75
3.75
2.75

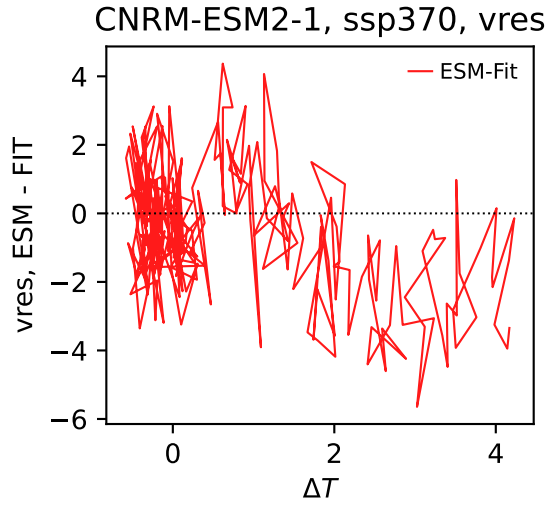

CNRM-ESM2-1, ssp370, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.1209, -0.2981, 0.0618, 0.0672, 0.9930, 0.6108, 0
0.04
0.02
0.00
−0.02
−0.04
lit_c_tan2
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
lit_c_tan
6.2
5.6
5.0
4.4
3.8
3.2
2.6
2.0
1.4
0.8

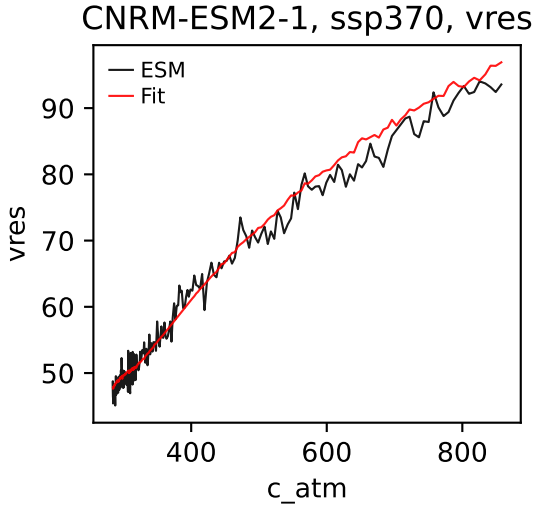

CNRM-ESM2-1, ssp370, Litter, ln(MSE/SIGMA)
625, -0.7992, 456.1209, -0.2981, 0.0618, 0.0672, 0.9930, 0.6108, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
lit_slow
0.90
0.92
0.94
0.96
0.98
1.00
lit_fast
3.9
3.5
3.1
2.7
2.3
1.9
1.5
1.1
0.7

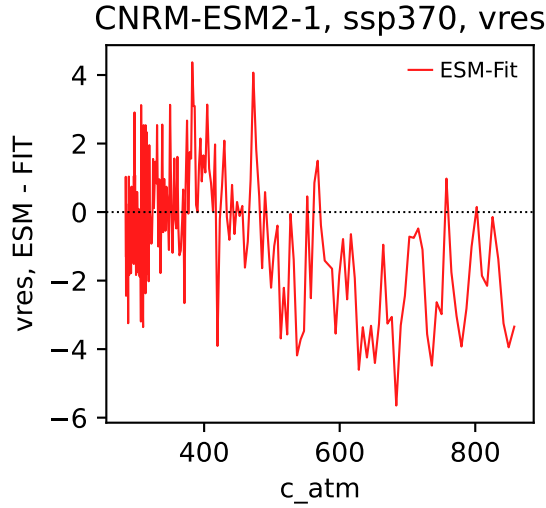

CNRM-ESM2-1, ssp370, vres
ESM
Fit
vres
Year

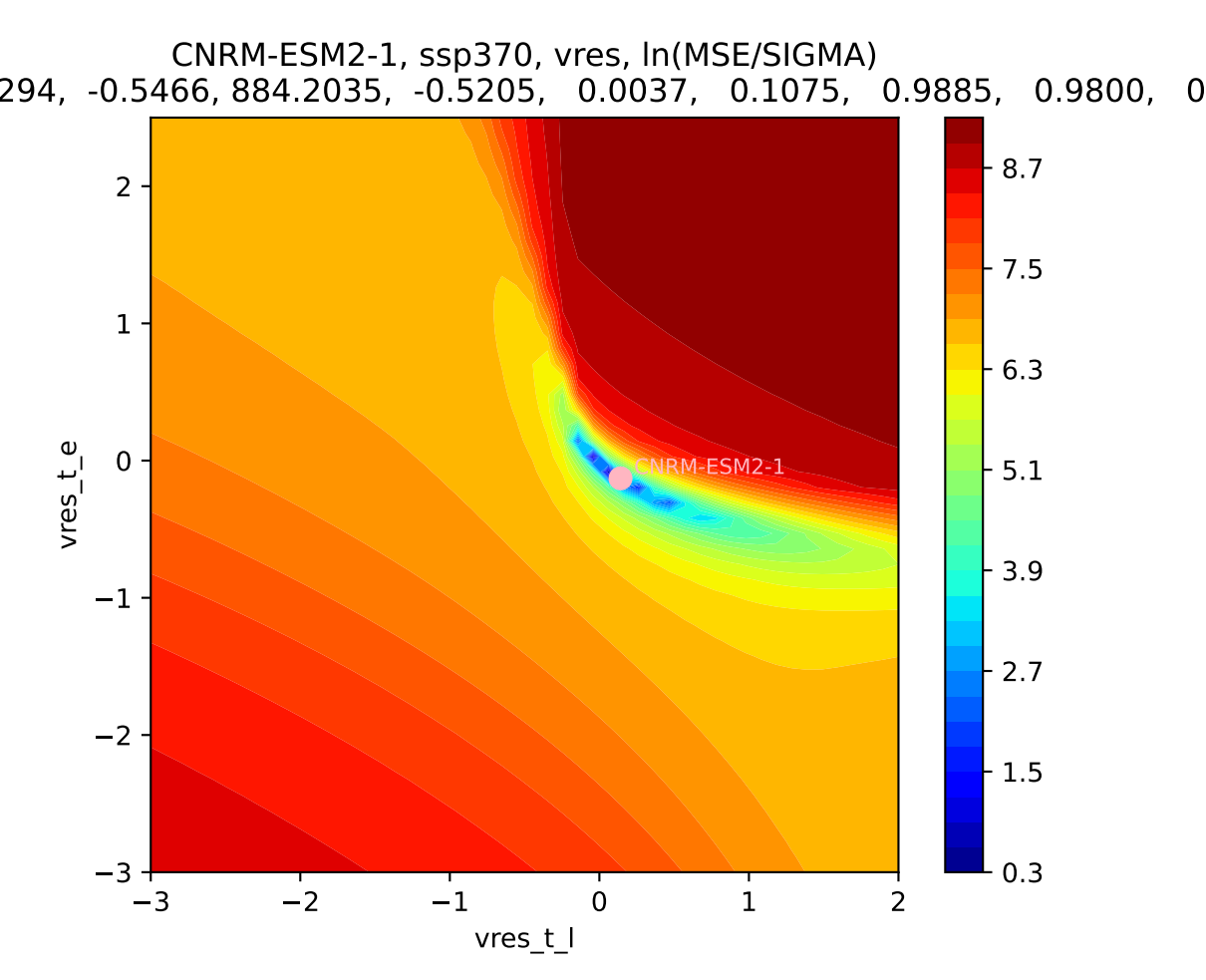

CNRM-ESM2-1, ssp370, vres
ESM-Fit
vres, ESM - FIT
Year

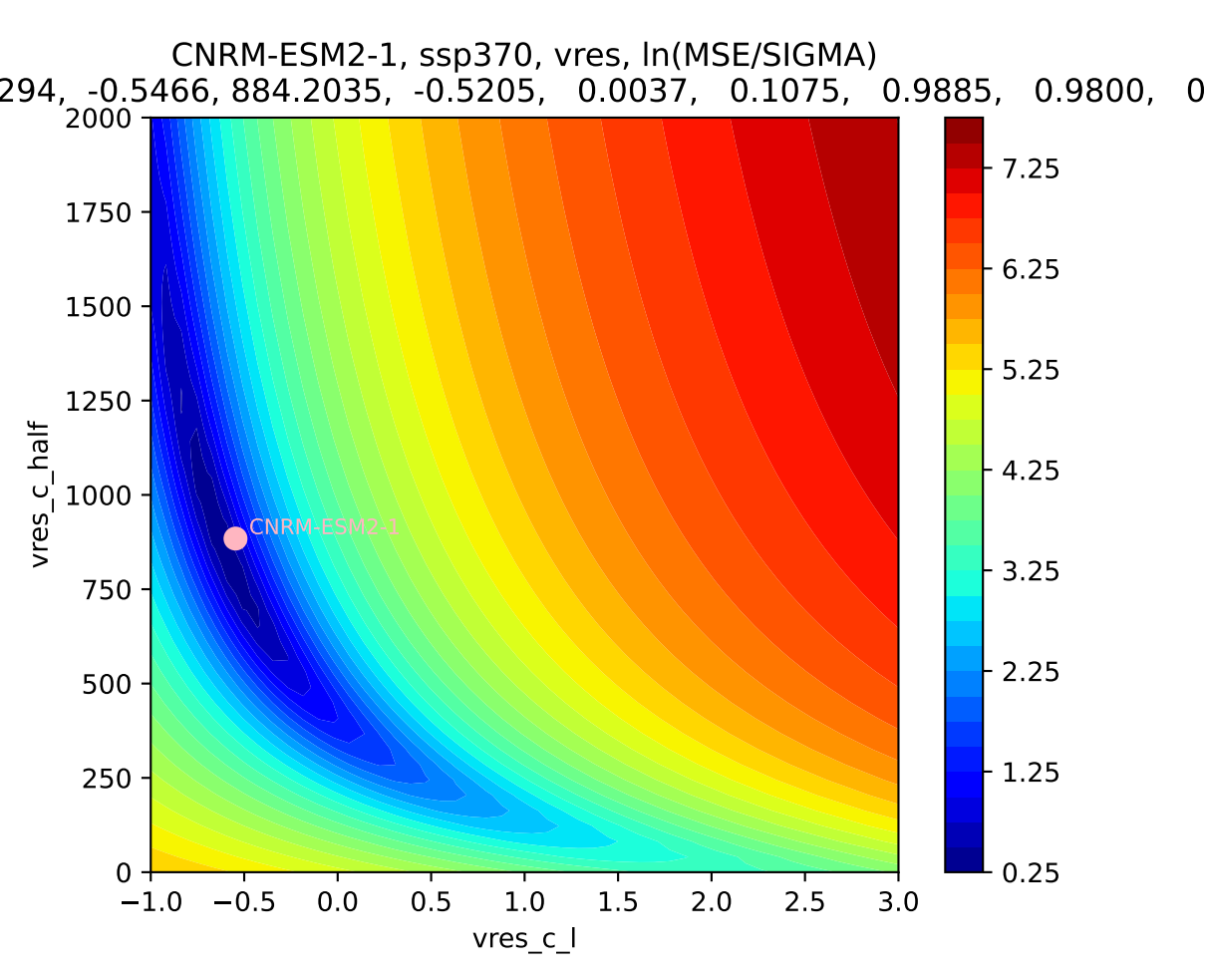

CNRM-ESM2-1, ssp370, vres
ESM
Fit
vres
ΔT

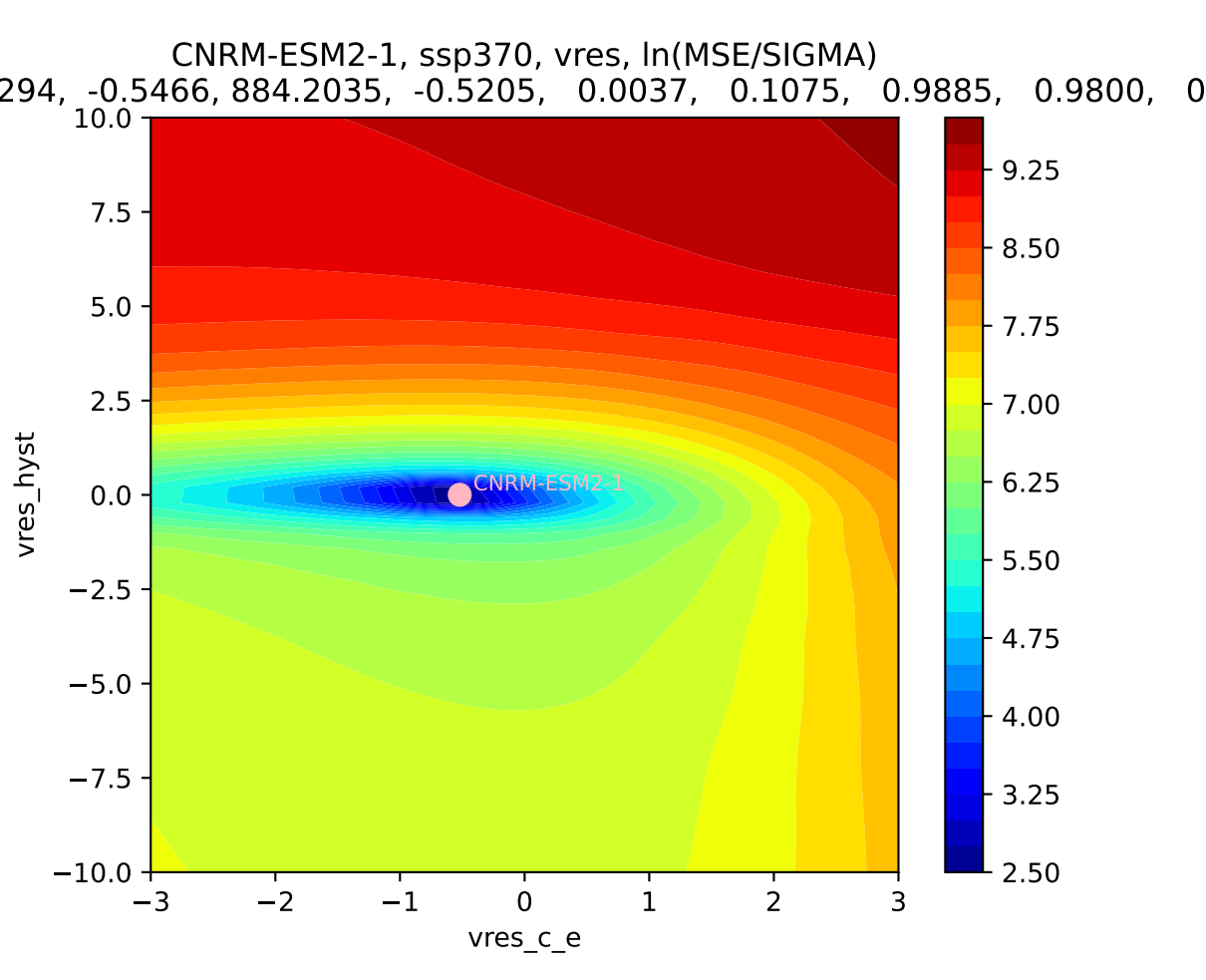

CNRM-ESM2-1, ssp370, vres
ESM-Fit
vres, ESM - FIT
ΔT

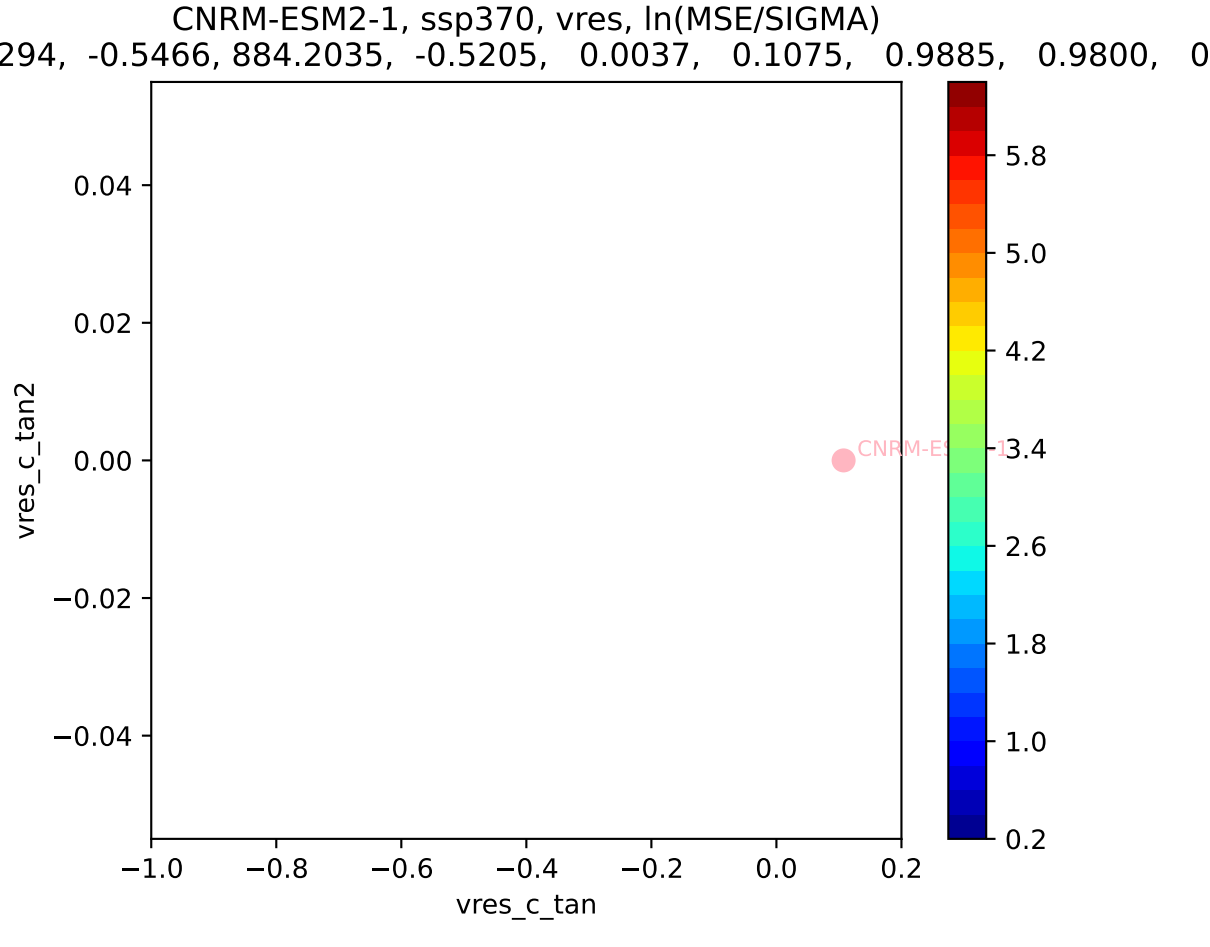

CNRM-ESM2-1, ssp370, vres
ESM
Fit
vres
c_atm

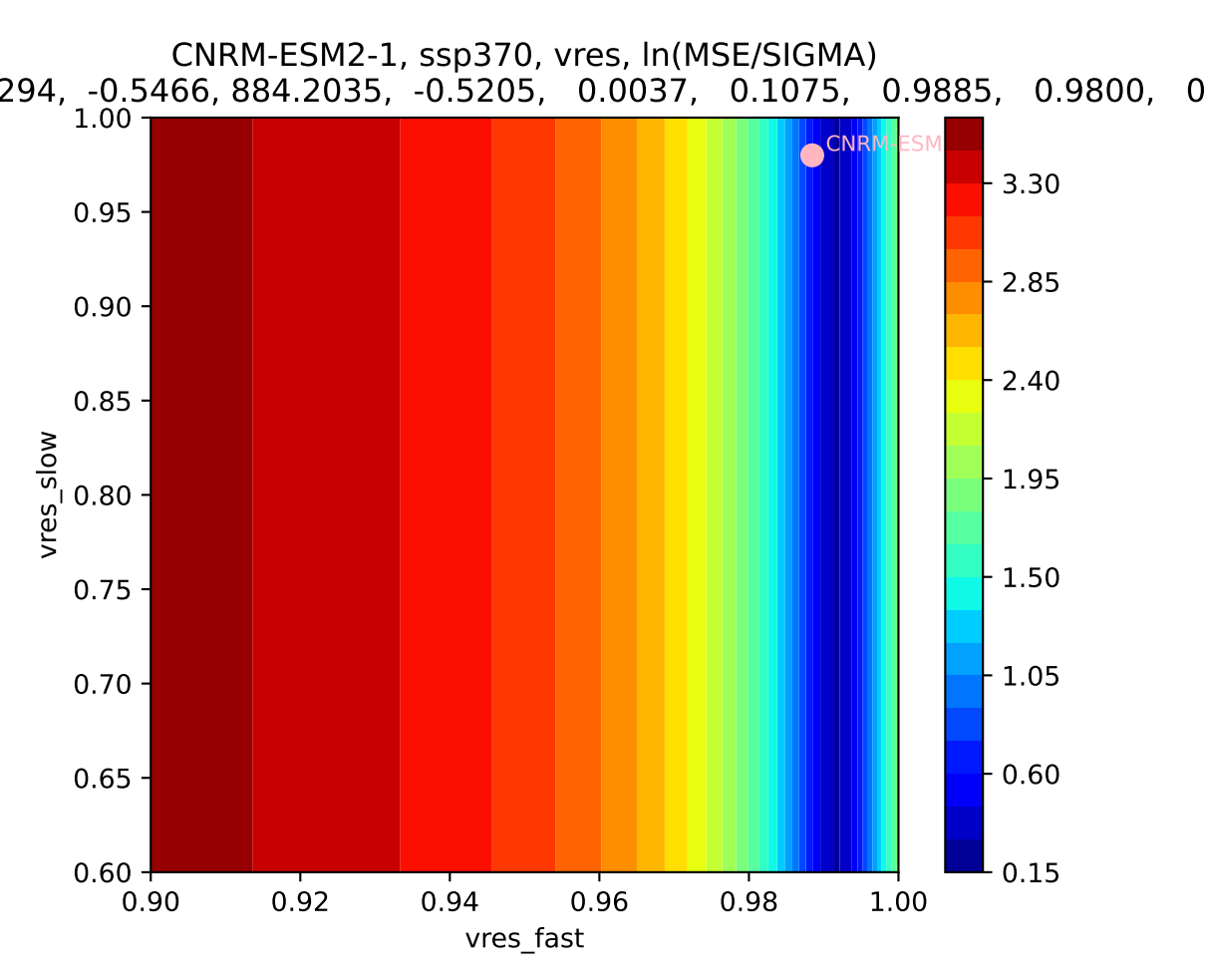

CNRM-ESM2-1, ssp370, vres
ESM-Fit
vres, ESM - FIT
c_atm

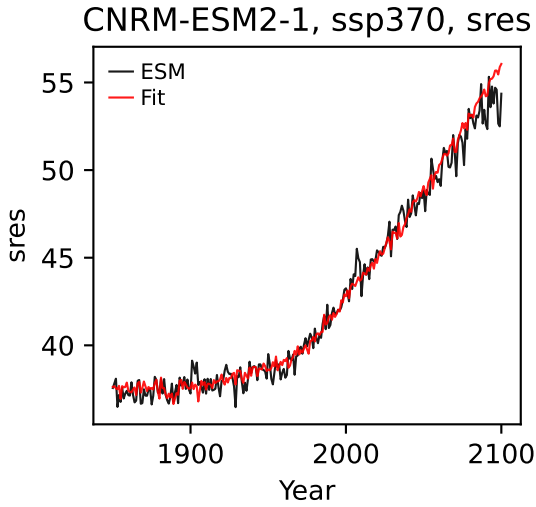

CNRM-ESM2-1, ssp370, vres, ln(MSE/SIGMA)
294, -0.5466, 884.2035, -0.5205, 0.0037, 0.1075, 0.9885, 0.9800, 0
CNRM-ESM2-1
vres_t_e
vres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
8.7
7.5
6.3
5.1
3.9
2.7
1.5
0.3

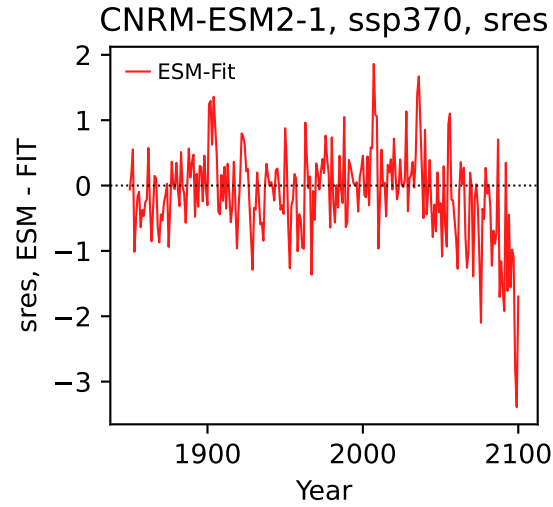

CNRM-ESM2-1, ssp370, vres, ln(MSE/SIGMA)
294, -0.5466, 884.2035, -0.5205, 0.0037, 0.1075, 0.9885, 0.9800, 0
CNRM-ESM2-1
vres_c_half
vres_c_l
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.25
6.25
5.25
4.25
3.25
2.25
1.25
0.25

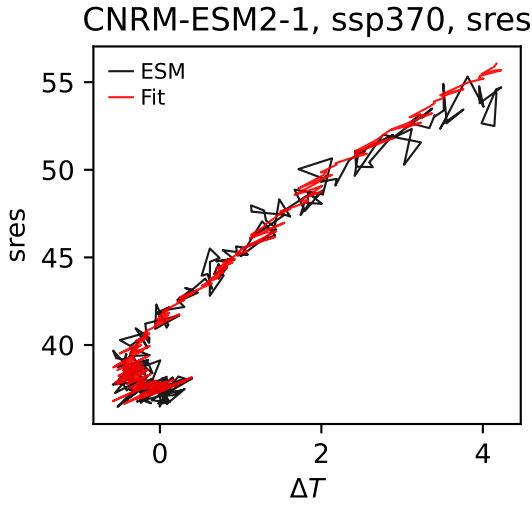

CNRM-ESM2-1, ssp370, vres, ln(MSE/SIGMA)
294, -0.5466, 884.2035, -0.5205, 0.0037, 0.1075, 0.9885, 0.9800, 0
CNRM-ESM2-1
vres_hyst
vres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
9.25
8.50
7.75
7.00
6.25
5.50
4.75
4.00
3.25
2.50

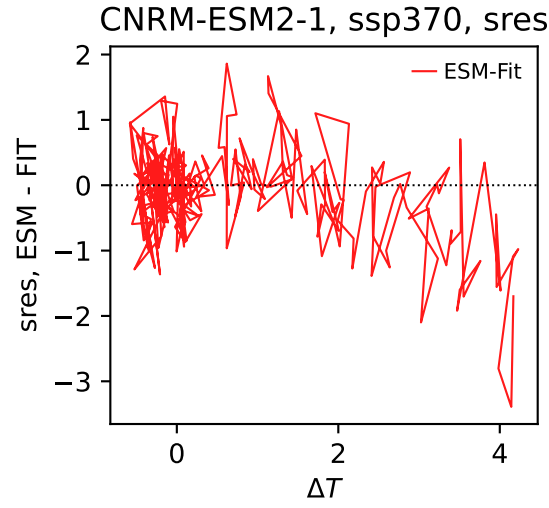

CNRM-ESM2-1, ssp370, vres, ln(MSE/SIGMA)
294, -0.5466, 884.2035, -0.5205, 0.0037, 0.1075, 0.9885, 0.9800, 0
vres_c_tan2
vres_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
5.8
5.0
4.2
3.4
2.6
1.8
1.0
0.2

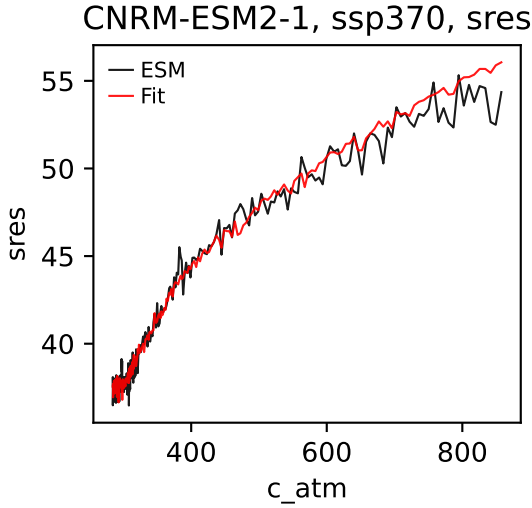

CNRM-ESM2-1, ssp370, vres, ln(MSE/SIGMA)
294, -0.5466, 884.2035, -0.5205, 0.0037, 0.1075, 0.9885, 0.9800, 0
CNRM-ESM
vres_slow
vres_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
3.30
2.85
2.40
1.95
1.50
1.05
0.60
0.15

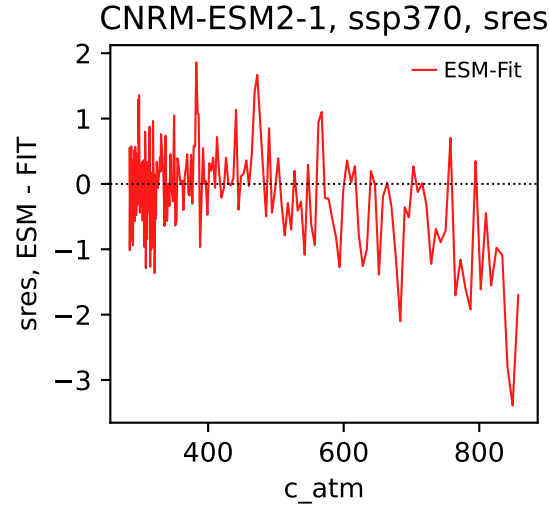

CNRM-ESM2-1, ssp370, sres
ESM
Fit
sres
Year

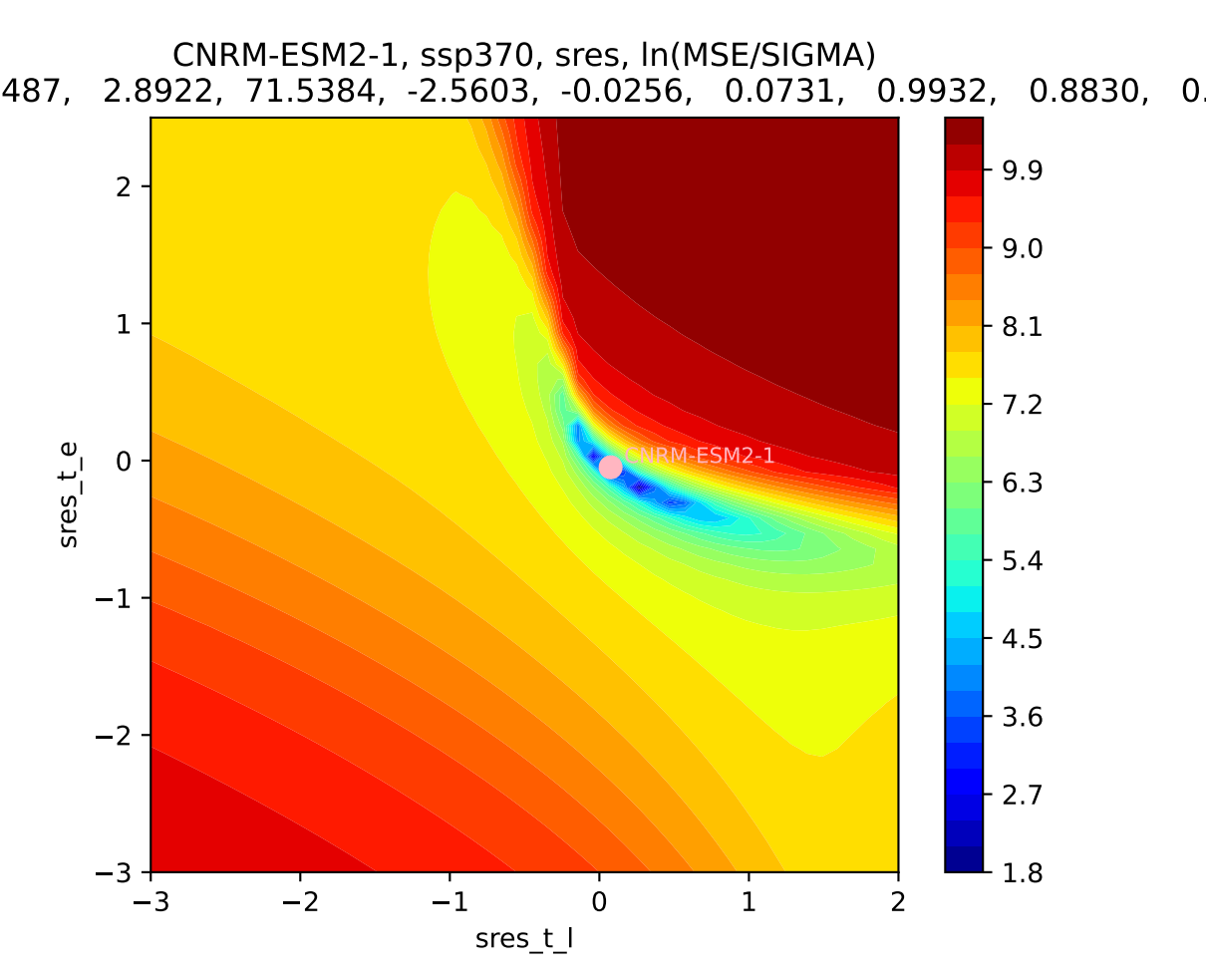

CNRM-ESM2-1, ssp370, sres
ESM-Fit
sres, ESM - FIT
Year

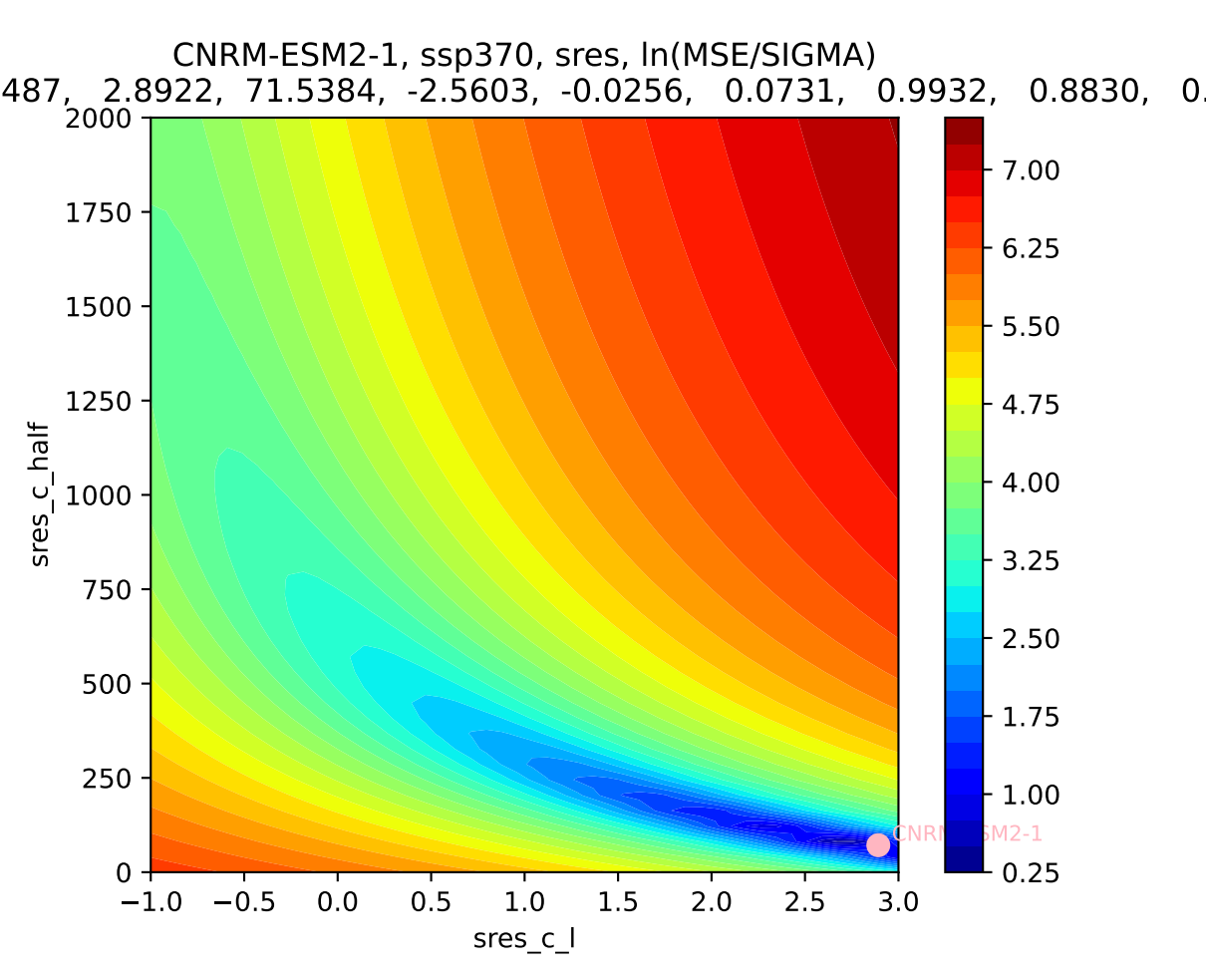

CNRM-ESM2-1, ssp370, sres
ESM
Fit
sres
ΔT

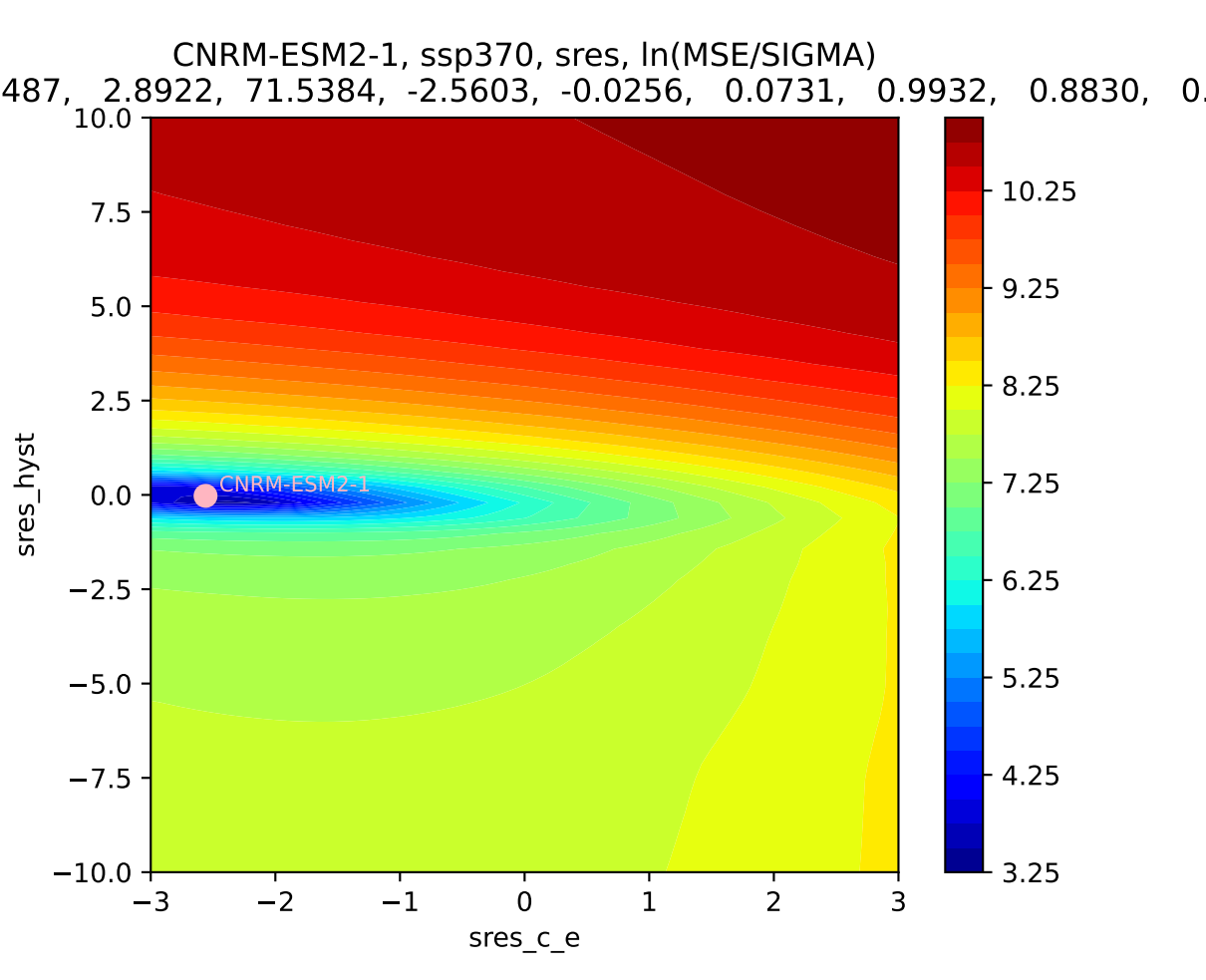

CNRM-ESM2-1, ssp370, sres
ESM-Fit
sres, ESM - FIT
ΔT

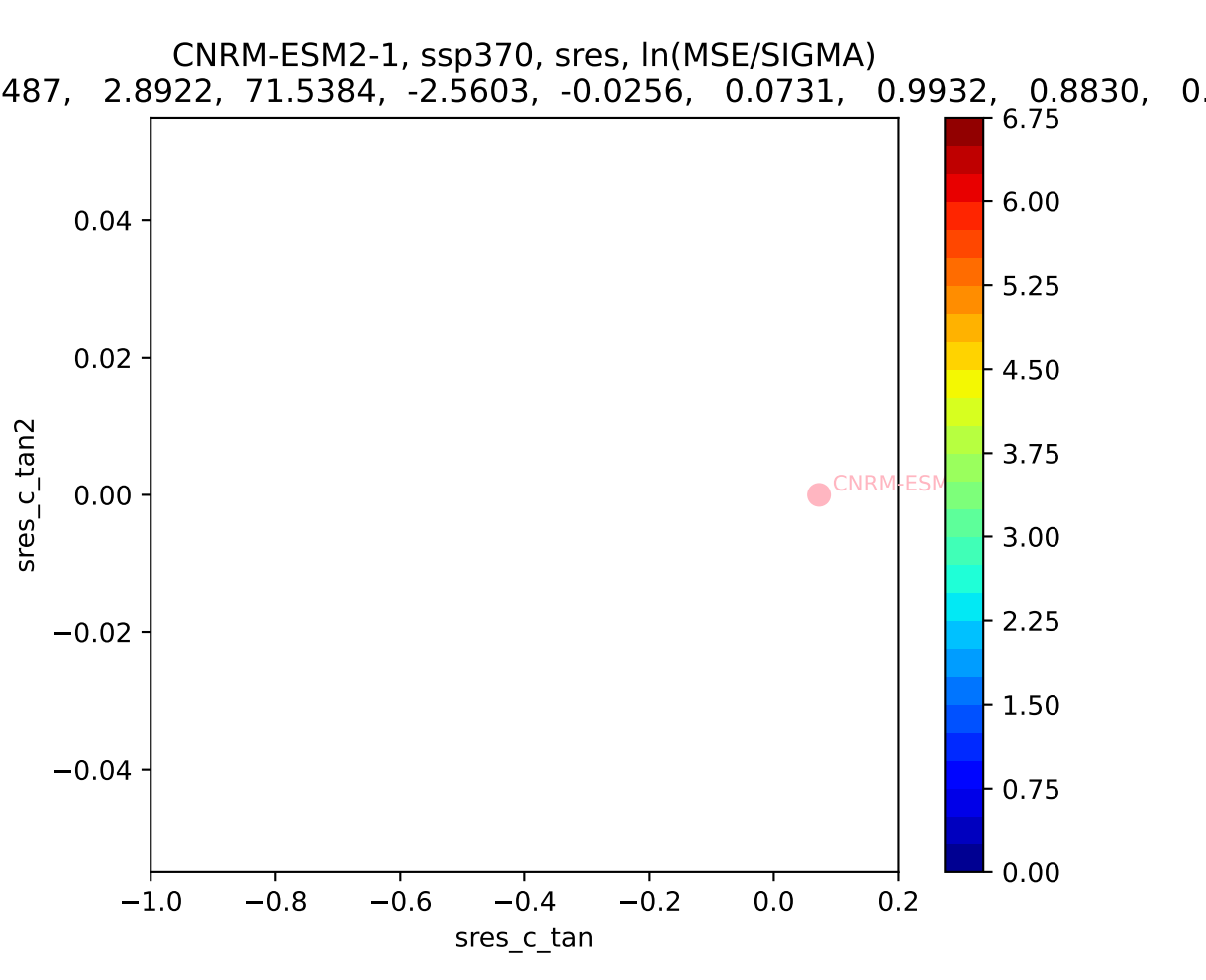

CNRM-ESM2-1, ssp370, sres
ESM
Fit
sres
c_atm

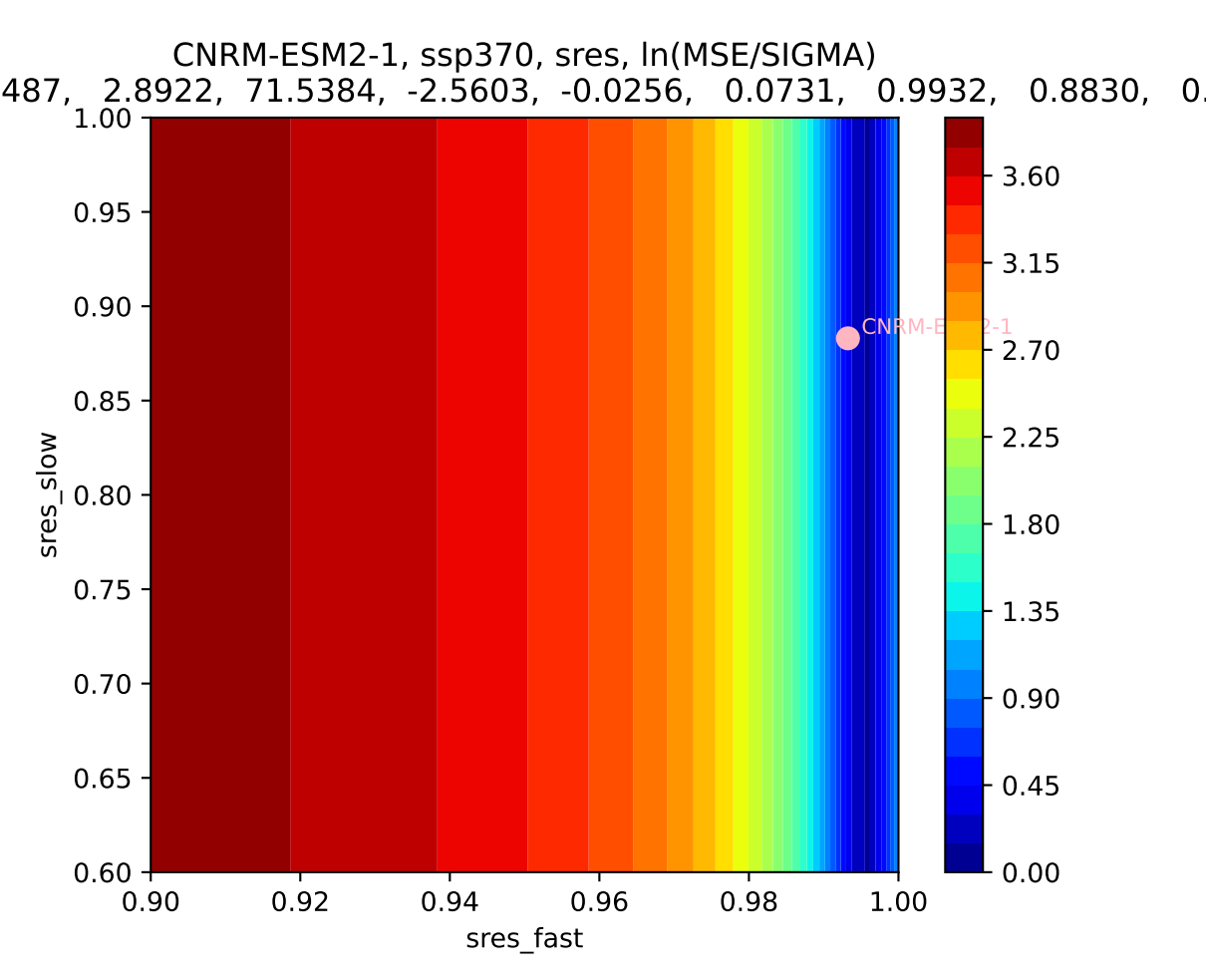

CNRM-ESM2-1, ssp370, sres
ESM-Fit
sres, ESM - FIT
c_atm

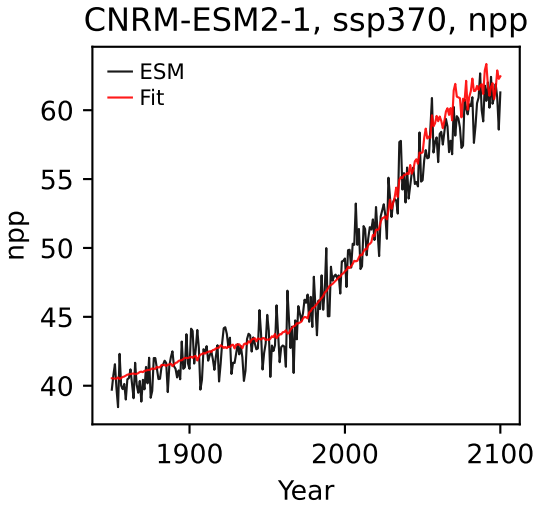

CNRM-ESM2-1, ssp370, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5384, -2.5603, -0.0256, 0.0731, 0.9932, 0.8830, 0.
CNRM-ESM2-1
sres_t_e
sres_t_l
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
9.9
9.0
8.1
7.2
6.3
5.4
4.5
3.6
2.7
1.8

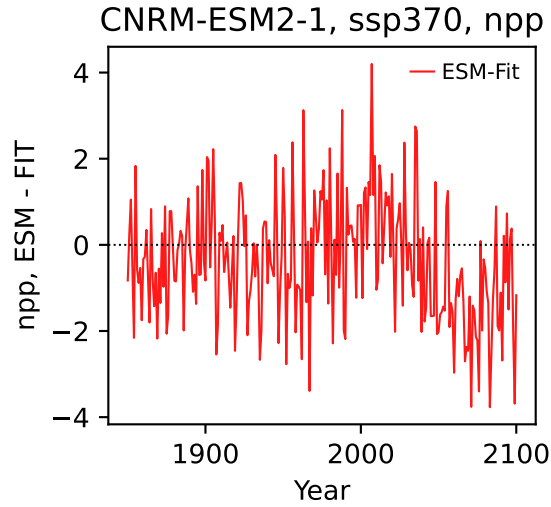

CNRM-ESM2-1, ssp370, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5384, -2.5603, -0.0256, 0.0731, 0.9932, 0.8830, 0.
sres_c_half
sres_c_l
2000
1750
1500
1250
1000
750
500
250
0
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
7.00
6.25
5.50
4.75
4.00
3.25
2.50
1.75
1.00
0.25

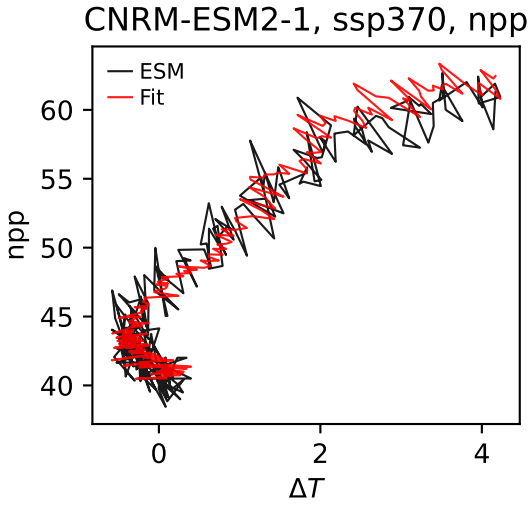

CNRM-ESM2-1, ssp370, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5384, -2.5603, -0.0256, 0.0731, 0.9932, 0.8830, 0.
CNRM-ESM2-1
sres_hyst
sres_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
10.25
9.25
8.25
7.25
6.25
5.25
4.25
3.25

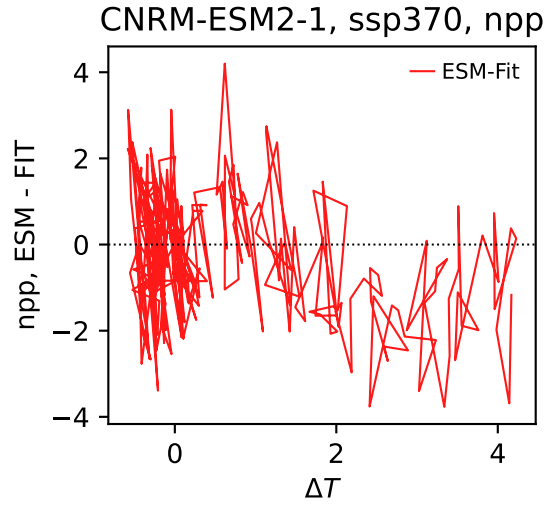

CNRM-ESM2-1, ssp370, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5384, -2.5603, -0.0256, 0.0731, 0.9932, 0.8830, 0.
sres_c_tan2
sres_c_tan
0.04
0.02
0.00
−0.02
−0.04
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
6.75
6.00
5.25
4.50
3.75
3.00
2.25
1.50
0.75
0.00
CNRM-ESM

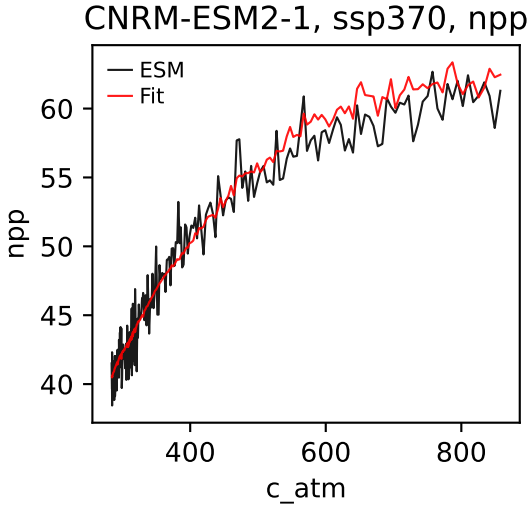

CNRM-ESM2-1, ssp370, sres, ln(MSE/SIGMA)
487, 2.8922, 71.5384, -2.5603, -0.0256, 0.0731, 0.9932, 0.8830, 0.
CNRM-E 2-1
sres_slow
sres_fast
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.90
0.92
0.94
0.96
0.98
1.00
3.60
3.15
2.70
2.25
1.80
1.35
0.90
0.45
0.00

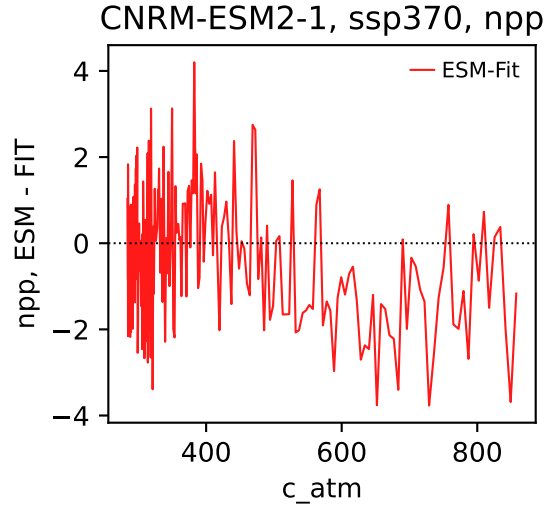

CNRM-ESM2-1, ssp370, npp
ESM
Fit
npp
Year

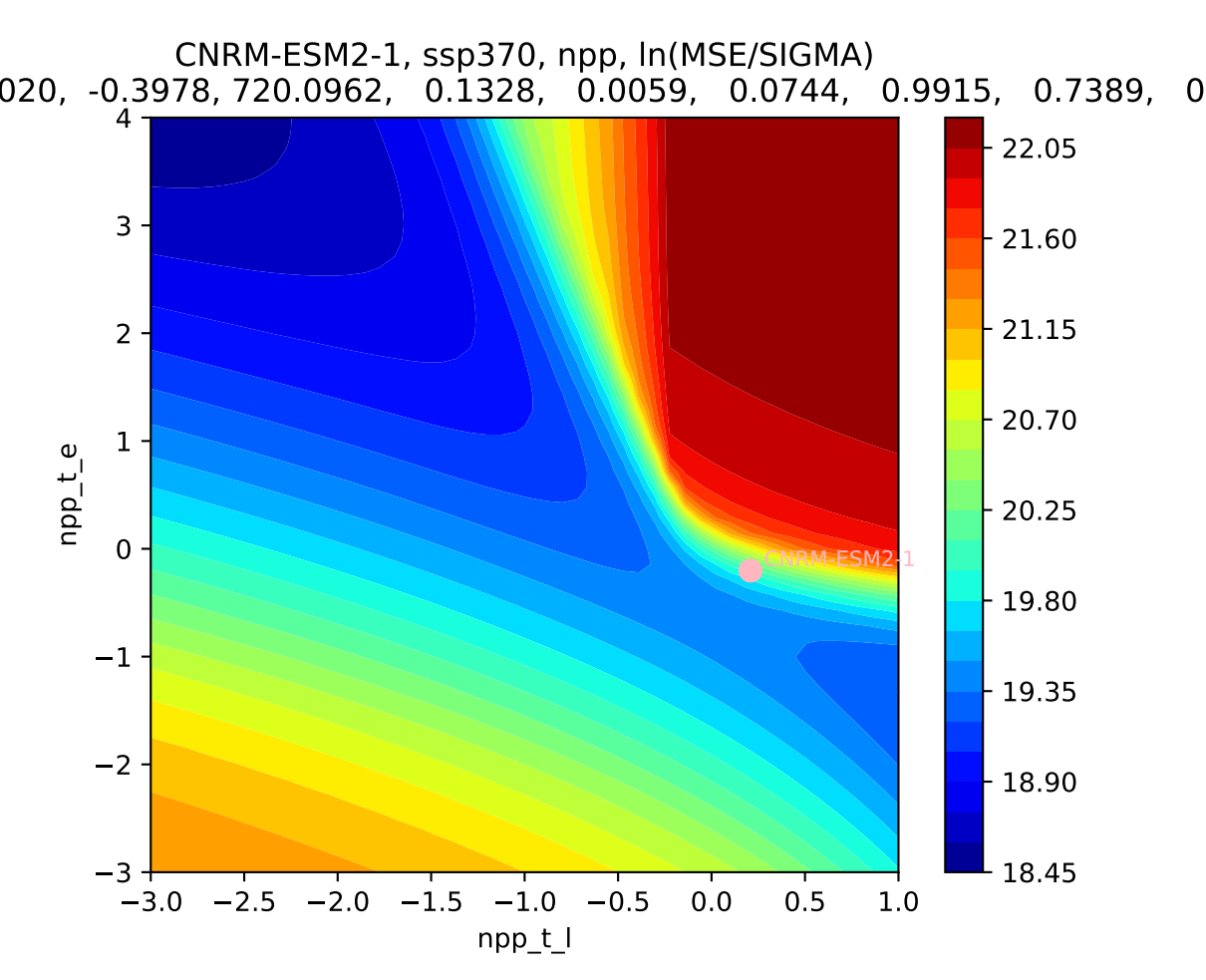

CNRM-ESM2-1, ssp370, npp
ESM-Fit
npp, ESM - FIT
Year

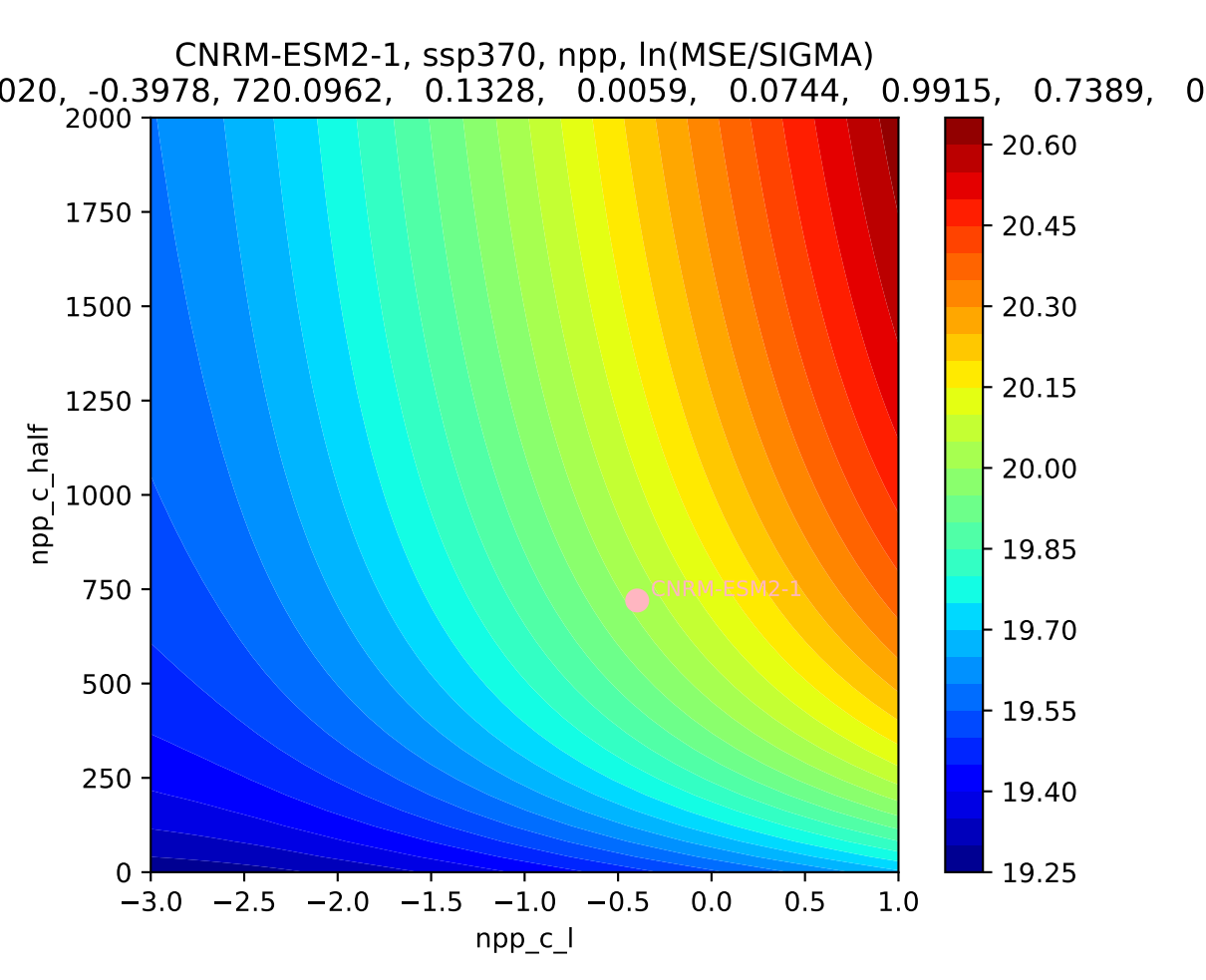

CNRM-ESM2-1, ssp370, npp
ESM
Fit
npp
ΔT

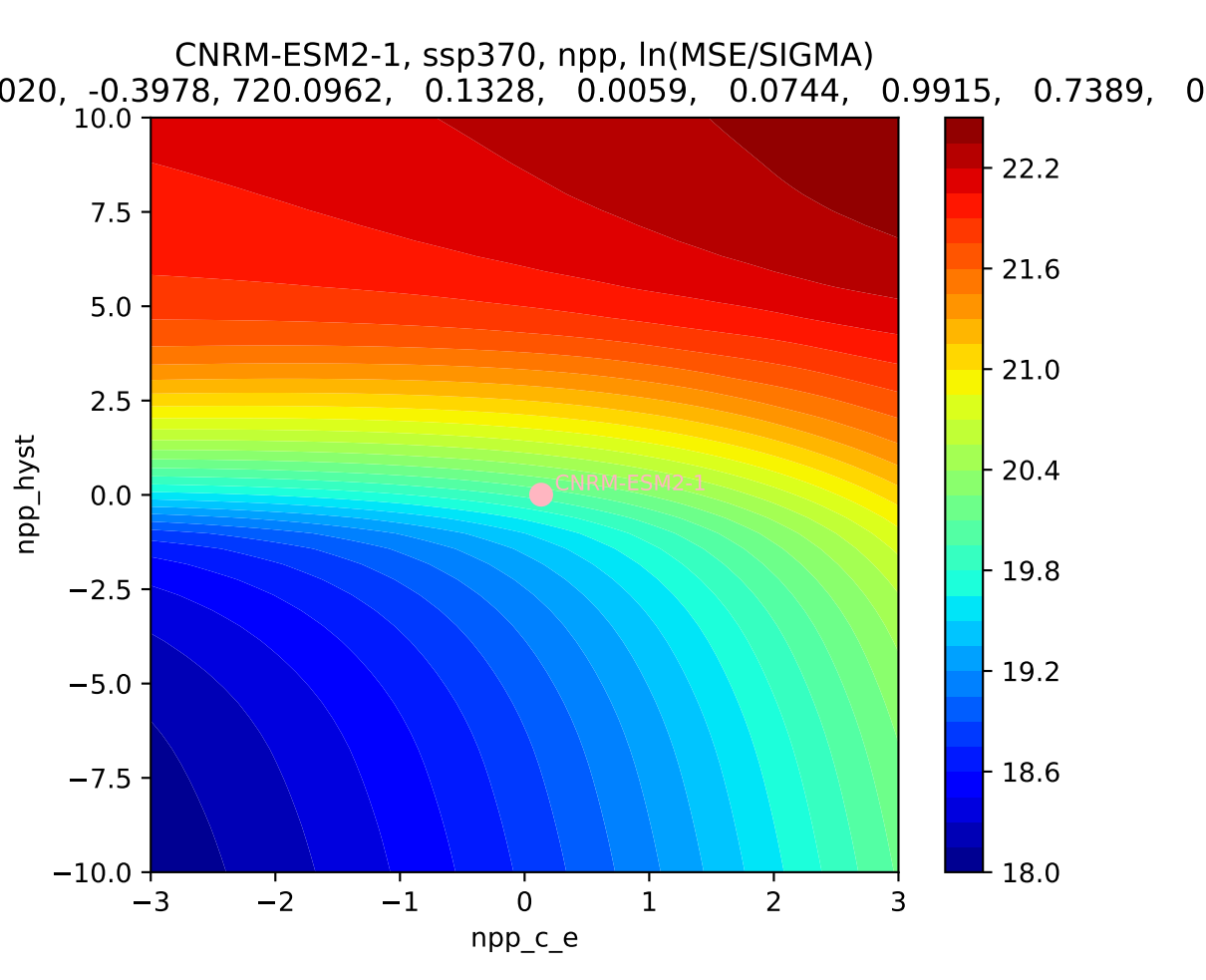

CNRM-ESM2-1, ssp370, npp
ESM-Fit
npp, ESM - FIT
ΔT

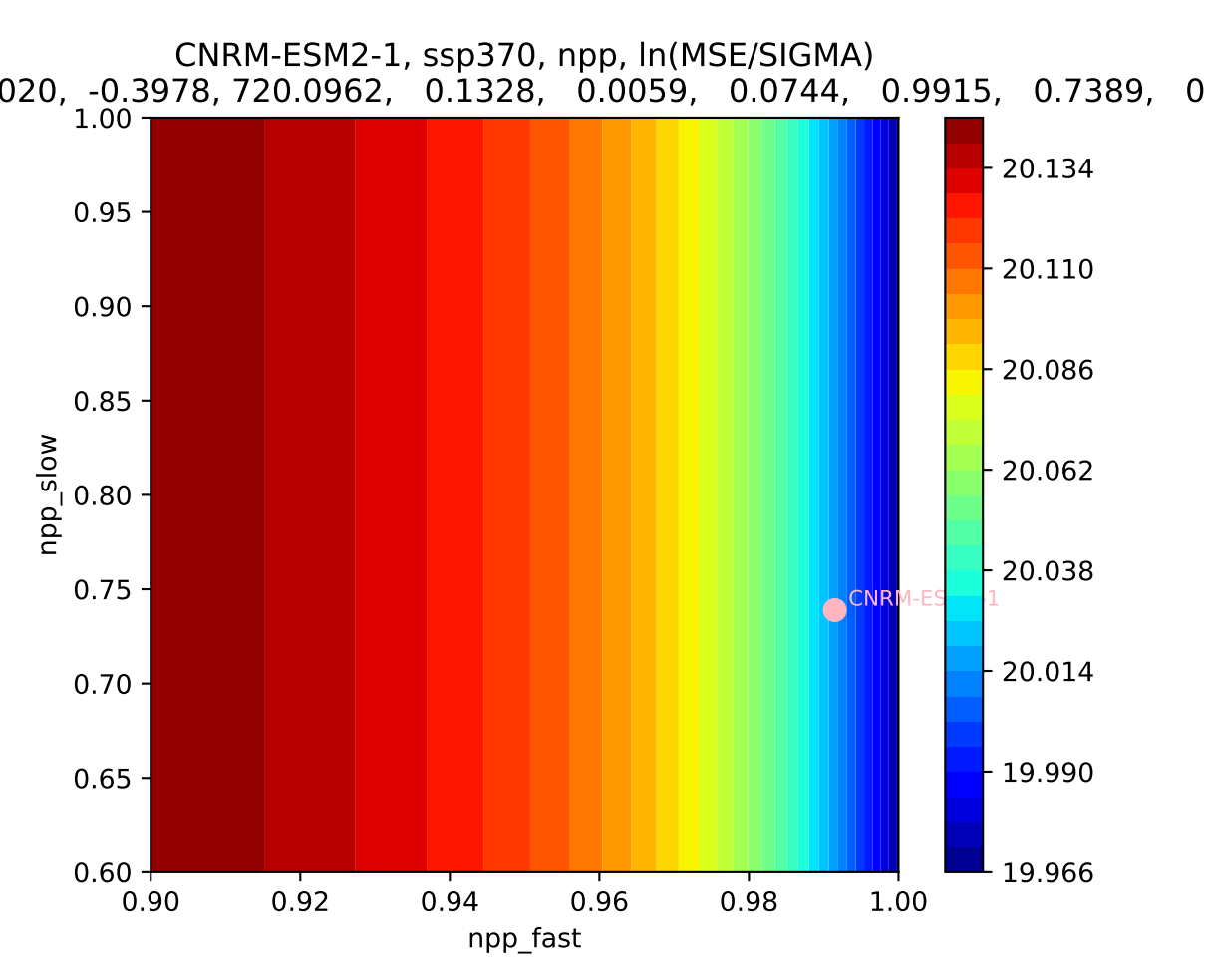

CNRM-ESM2-1, ssp370, npp
ESM
Fit
npp
c_atm

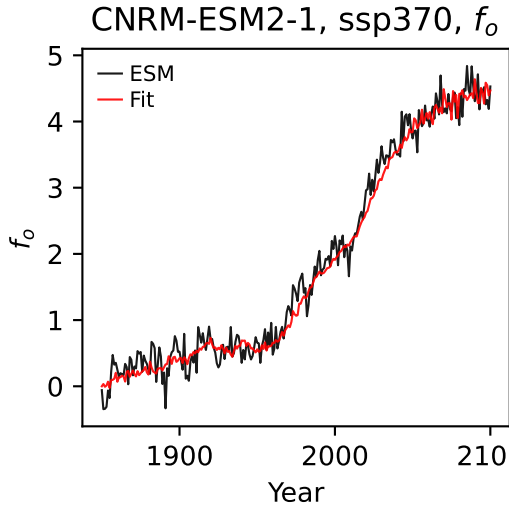

CNRM-ESM2-1, ssp370, npp
ESM-Fit
npp, ESM - FIT
c_atm

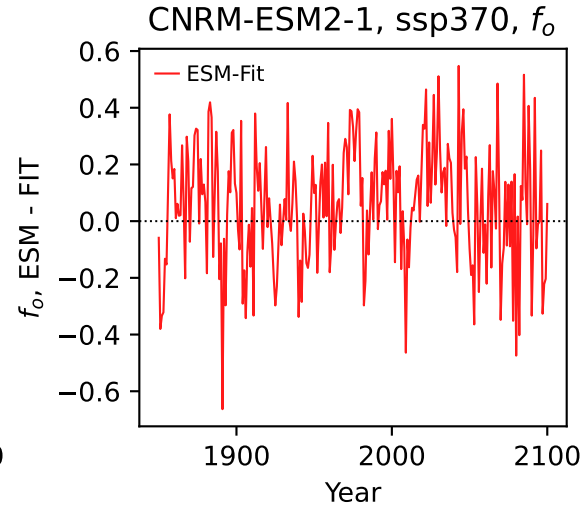

CNRM-ESM2-1, ssp370, npp, ln(MSE/SIGMA)
020, -0.3978, 720.0962, 0.1328, 0.0059, 0.0744, 0.9915, 0.7389, 0
npp_t_e
npp_t_l
CNRM-ESM2-1
22.05
21.60
21.15
20.70
20.25
19.80
19.35
18.90
18.45

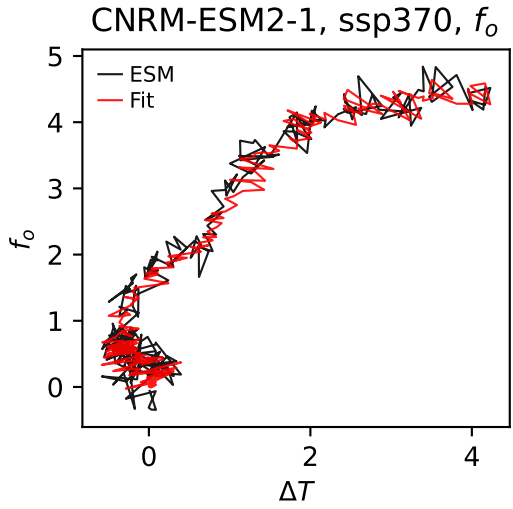

CNRM-ESM2-1, ssp370, npp, ln(MSE/SIGMA)
020, -0.3978, 720.0962, 0.1328, 0.0059, 0.0744, 0.9915, 0.7389, 0
2000
1750
1500
1250
1000
750
500
250
0
npp_c_half
−3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
npp_c_l
CNRM-ESM2-1
20.60
20.45
20.30
20.15
20.00
19.85
19.70
19.55
19.40
19.25

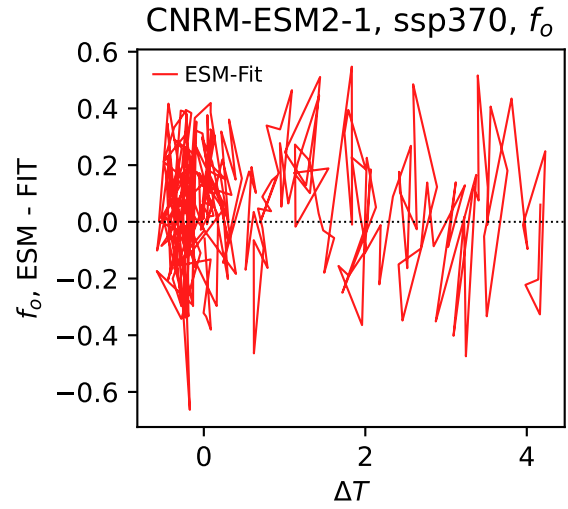

CNRM-ESM2-1, ssp370, npp, ln(MSE/SIGMA)
020, -0.3978, 720.0962, 0.1328, 0.0059, 0.0744, 0.9915, 0.7389, 0
CNRM-ESM2-1
npp_hyst
npp_c_e
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−3
−2
−1
0
1
2
3
22.2
21.6
21.0
20.4
19.8
19.2
18.6
18.0

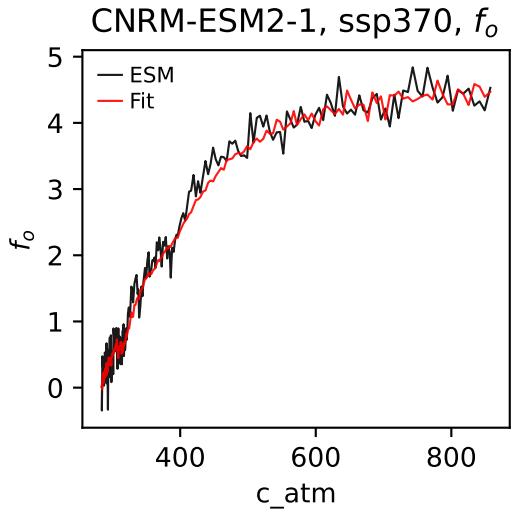

CNRM-ESM2-1, ssp370, npp, ln(MSE/SIGMA)
020, -0.3978, 720.0962, 0.1328, 0.0059, 0.0744, 0.9915, 0.7389, 0
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
npp_slow
0.90
0.92
0.94
0.96
0.98
1.00
npp_fast
20.134
20.110
20.086
20.062
20.038
20.014
19.990
19.966

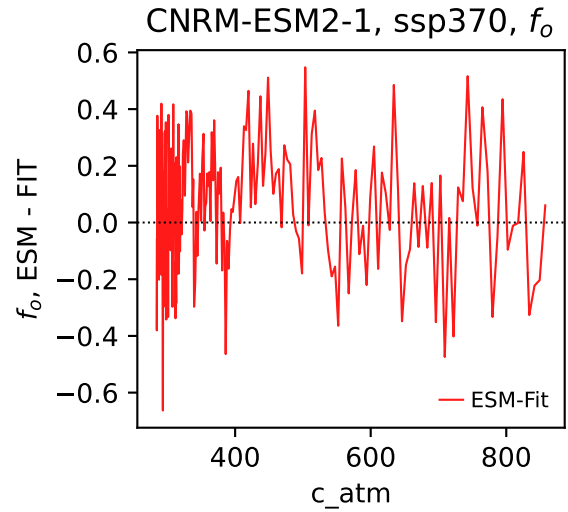

CNRM-ESM2-1, ssp370, $f_o$
ESM
Fit
$f_o$
Year

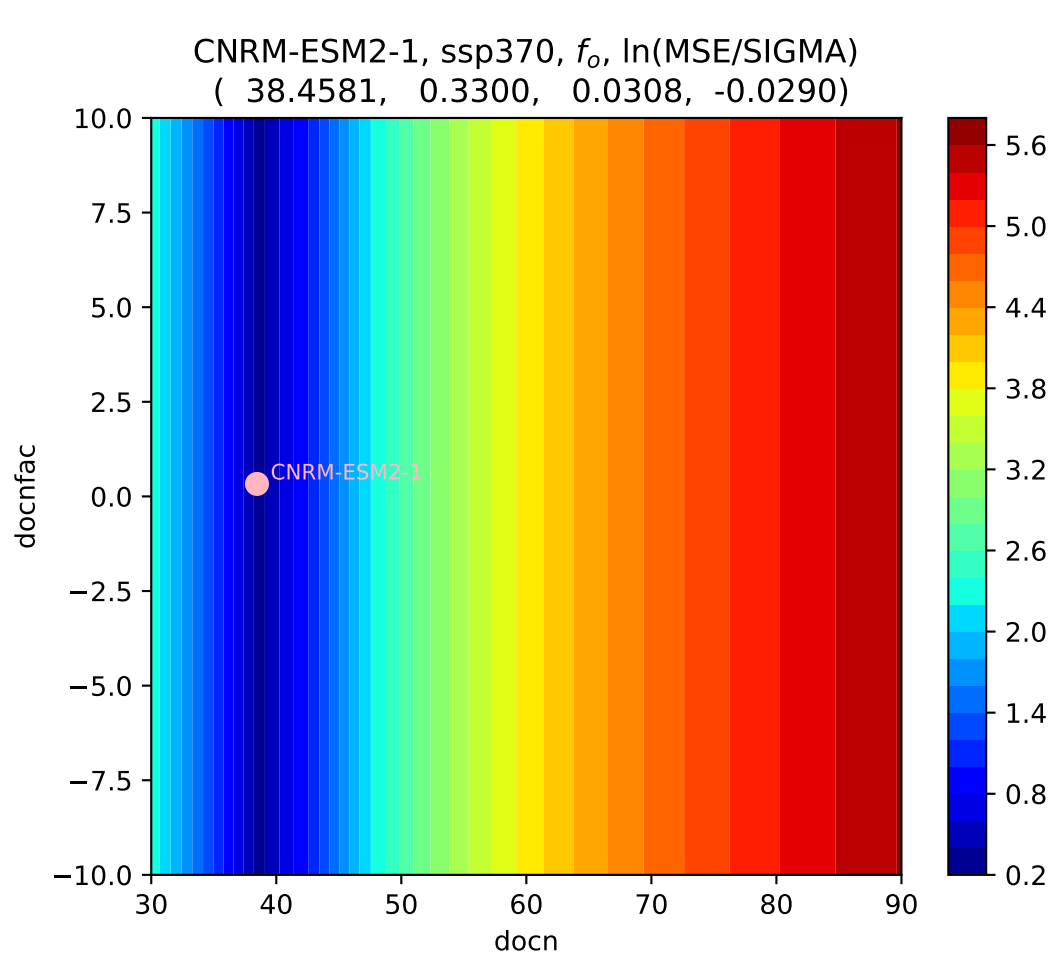

CNRM-ESM2-1, ssp370, $f_o$
ESM-Fit
$f_o$, ESM - FIT
Year

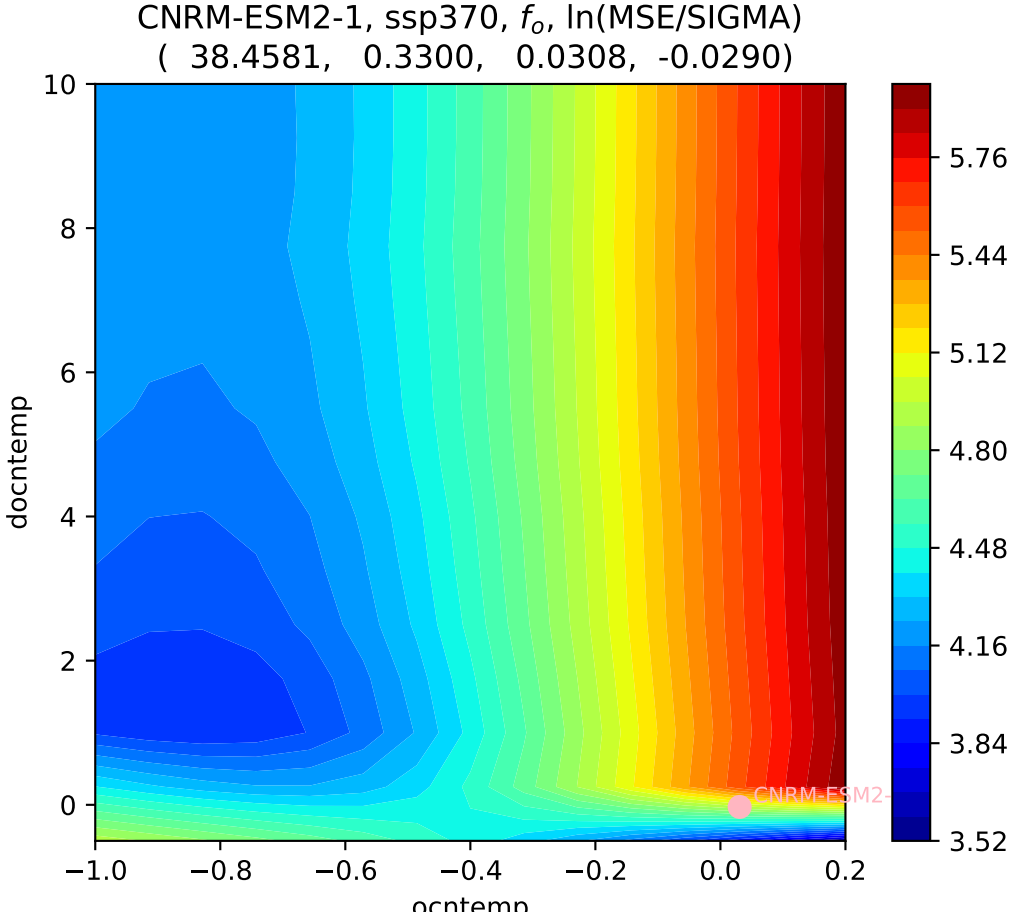

CNRM-ESM2-1, ssp370, $f_o$
ESM
Fit
$f_o$
$\Delta T$


CNRM-ESM2-1, ssp370, $f_o$
ESM-Fit
$f_o$, ESM - FIT
$\Delta T$


CNRM-ESM2-1, ssp370, $f_o$
ESM
Fit
$f_o$
c_atm


CNRM-ESM2-1, ssp370, $f_o$
ESM-Fit
$f_o$, ESM - FIT
c_atm


CNRM-ESM2-1, ssp370, $f_o$, 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
5.6
5.0
4.4
3.8
3.2
2.6
2.0
1.4
0.8
0.2


CNRM-ESM2-1, ssp370, $f_o$, ln(MSE/SIGMA)
( 38.4581, 0.3300, 0.0308, -0.0290)
docntemp
ocntemp
10
8
6
4
2
0
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
5.76
5.44
5.12
4.80
4.48
4.16
3.84
3.52
CNRM-ESM2-