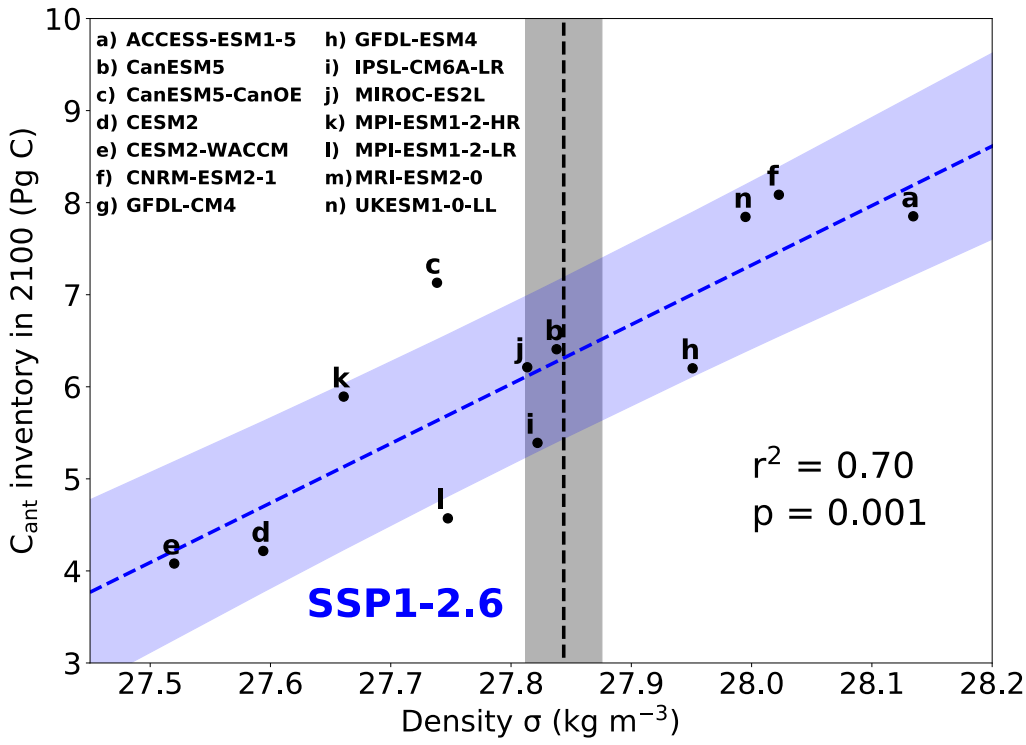
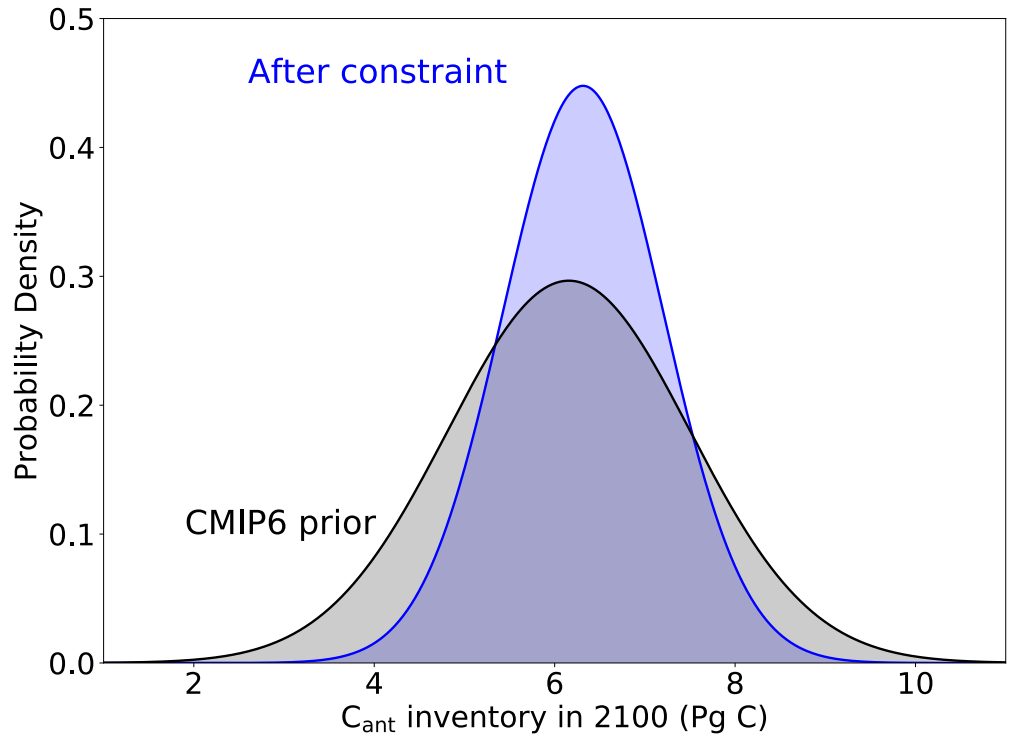
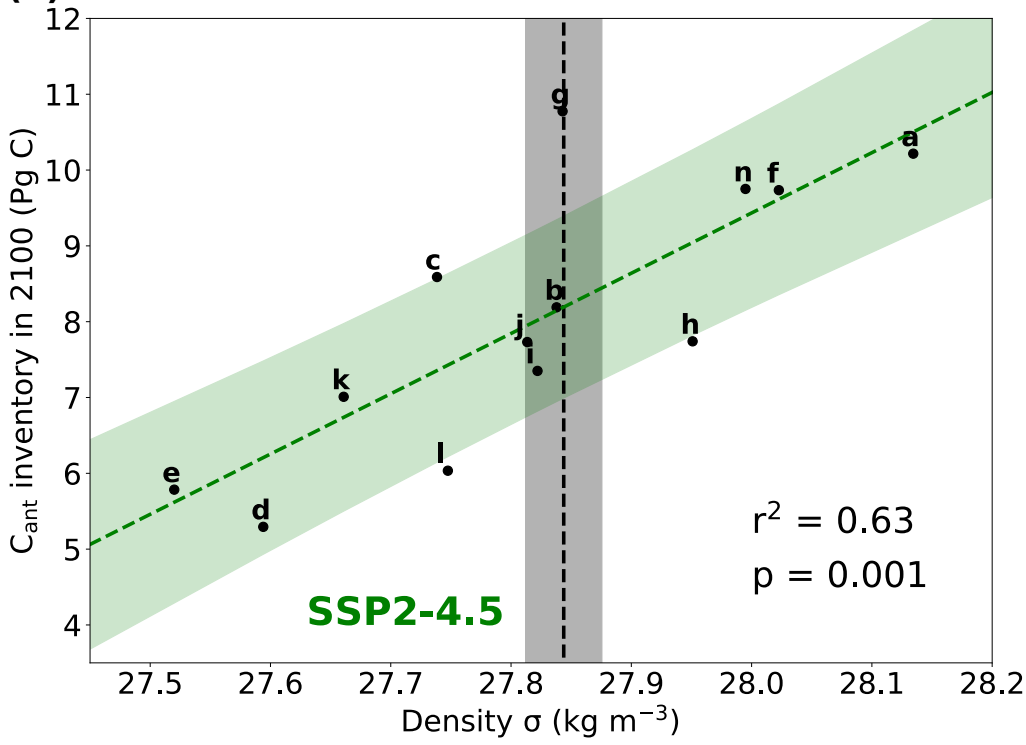
(a)


a) ACCESS-ESM1-5
b) CanESM5
c) CanESM5-CanOE
d) CESM2
e) CESM2-WACCM
f) CNRM-ESM2-1
g) GFDL-CM4
h) GFDL-ESM4
i) IPSL-CM6A-LR
j) MIROC-ES2L
k) MPI-ESM1-2-HR
l) MPI-ESM1-2-LR
m) MRI-ESM2-0
n) UKESM1-0-LL
r² = 0.70
p = 0.001
SSP1-2.6
C_ant inventory in 2100 (Pg C)
Density σ (kg m⁻³)

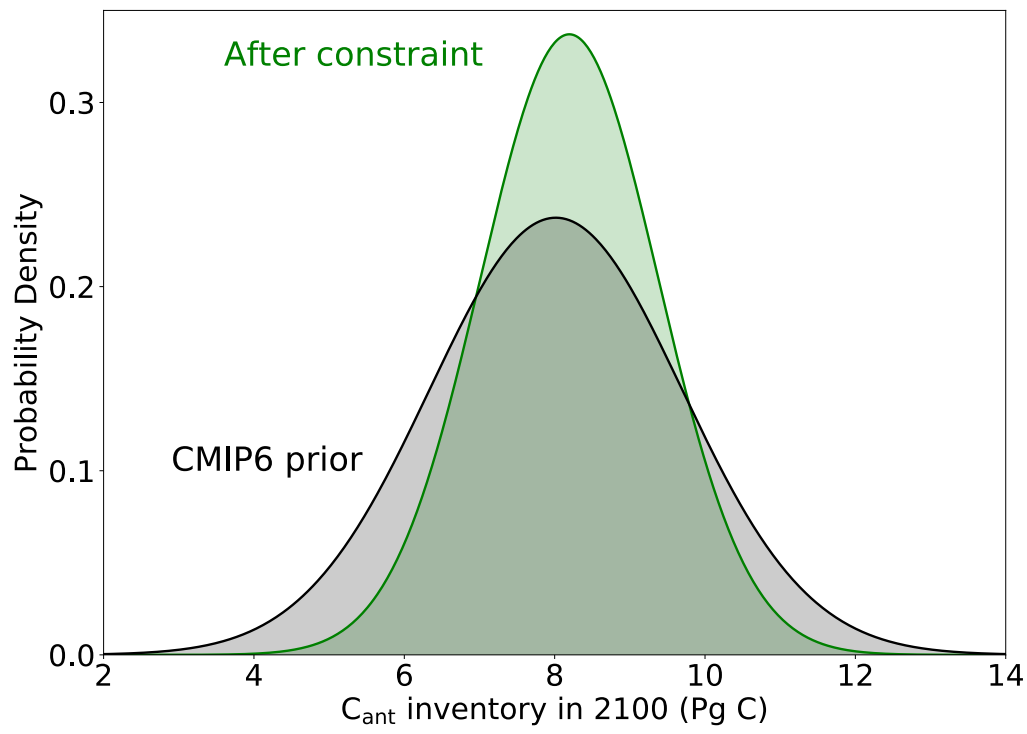
(b)


After constraint
CMIP6 prior
Probability Density
C_ant inventory in 2100 (Pg C)

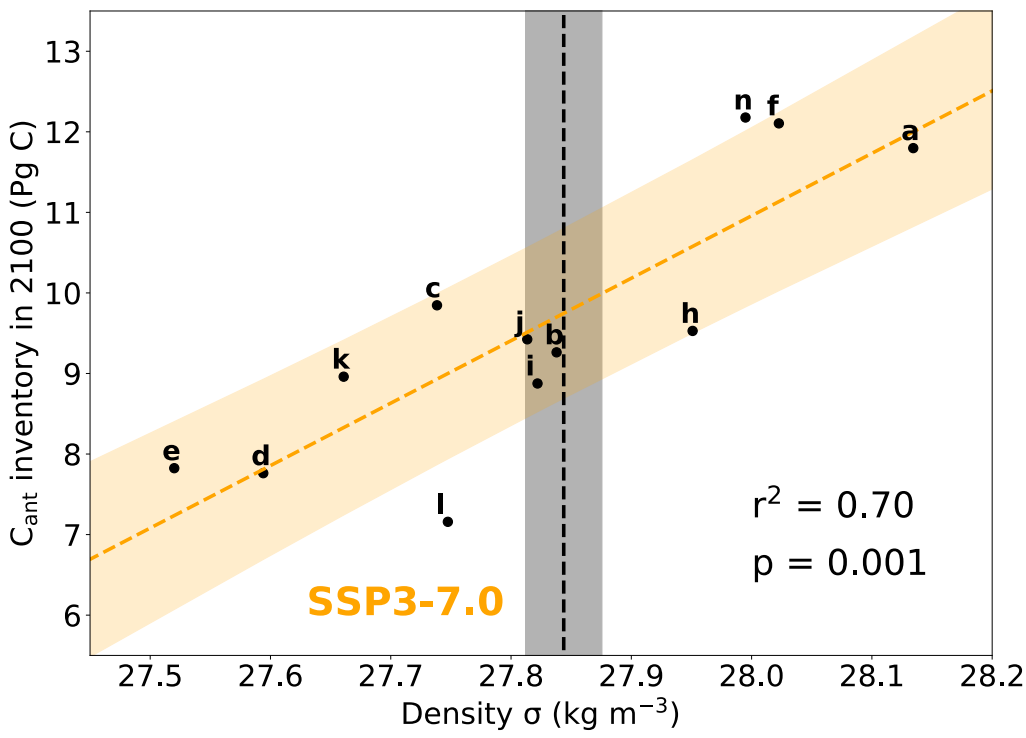
(c)


r² = 0.63
p = 0.001
SSP2-4.5
C_ant inventory in 2100 (Pg C)
Density σ (kg m⁻³)

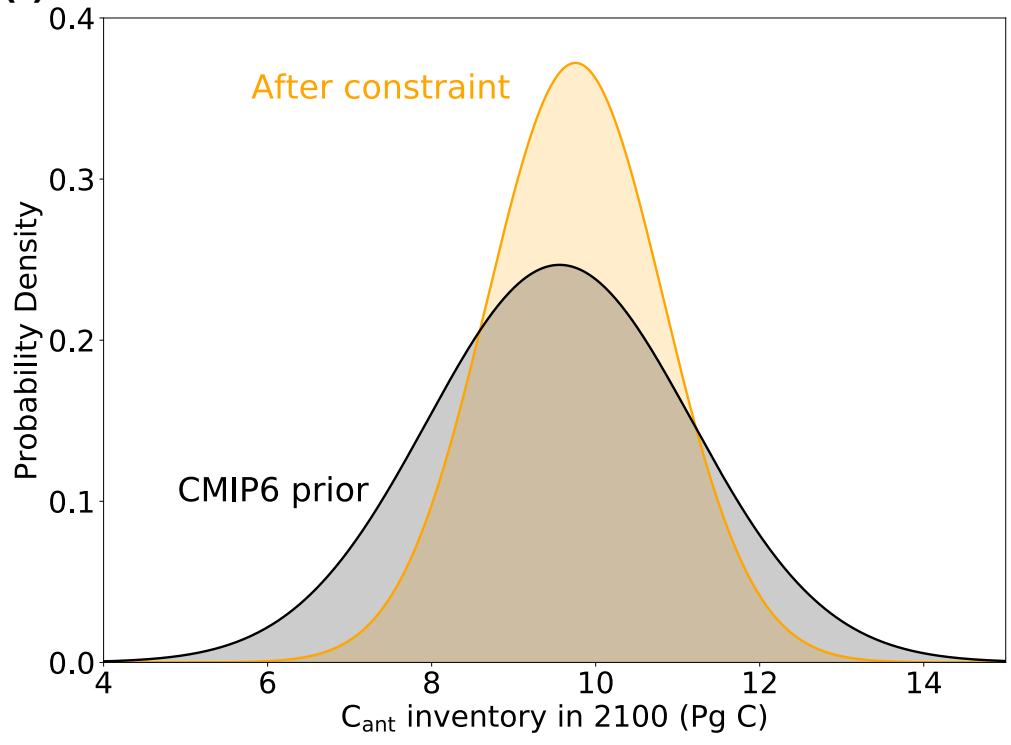
(d)


After constraint
CMIP6 prior
Probability Density
C_ant inventory in 2100 (Pg C)

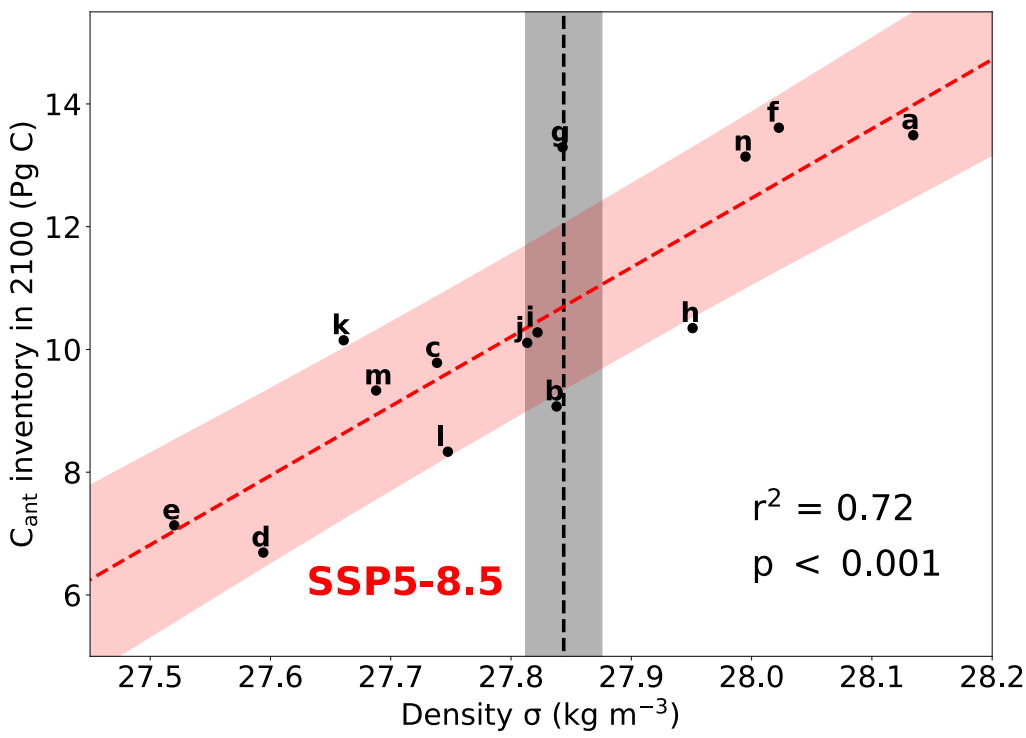
(e)


r² = 0.70
p = 0.001
SSP3-7.0
C_ant inventory in 2100 (Pg C)
Density σ (kg m⁻³)

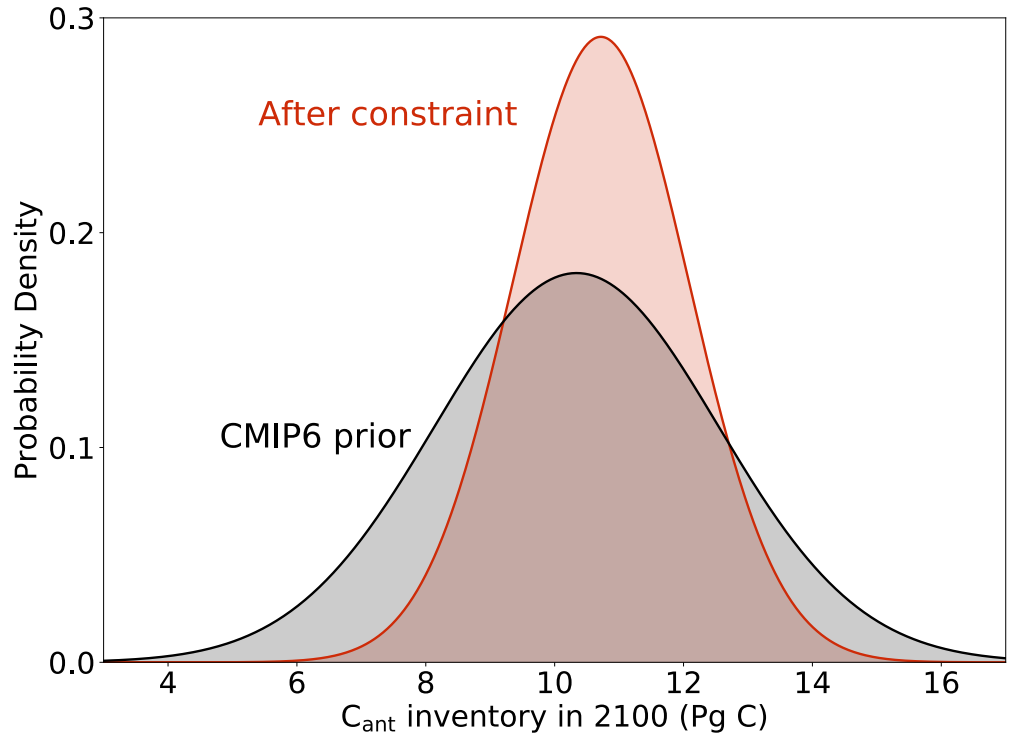
(f)


After constraint
CMIP6 prior
Probability Density
C_ant inventory in 2100 (Pg C)

(g)


r² = 0.72
p < 0.001
SSP5-8.5
C_ant inventory in 2100 (Pg C)
Density σ (kg m⁻³)

(h)


After constraint
CMIP6 prior
Probability Density
C_ant inventory in 2100 (Pg C)