SUPPLEMENTARY FIGURES

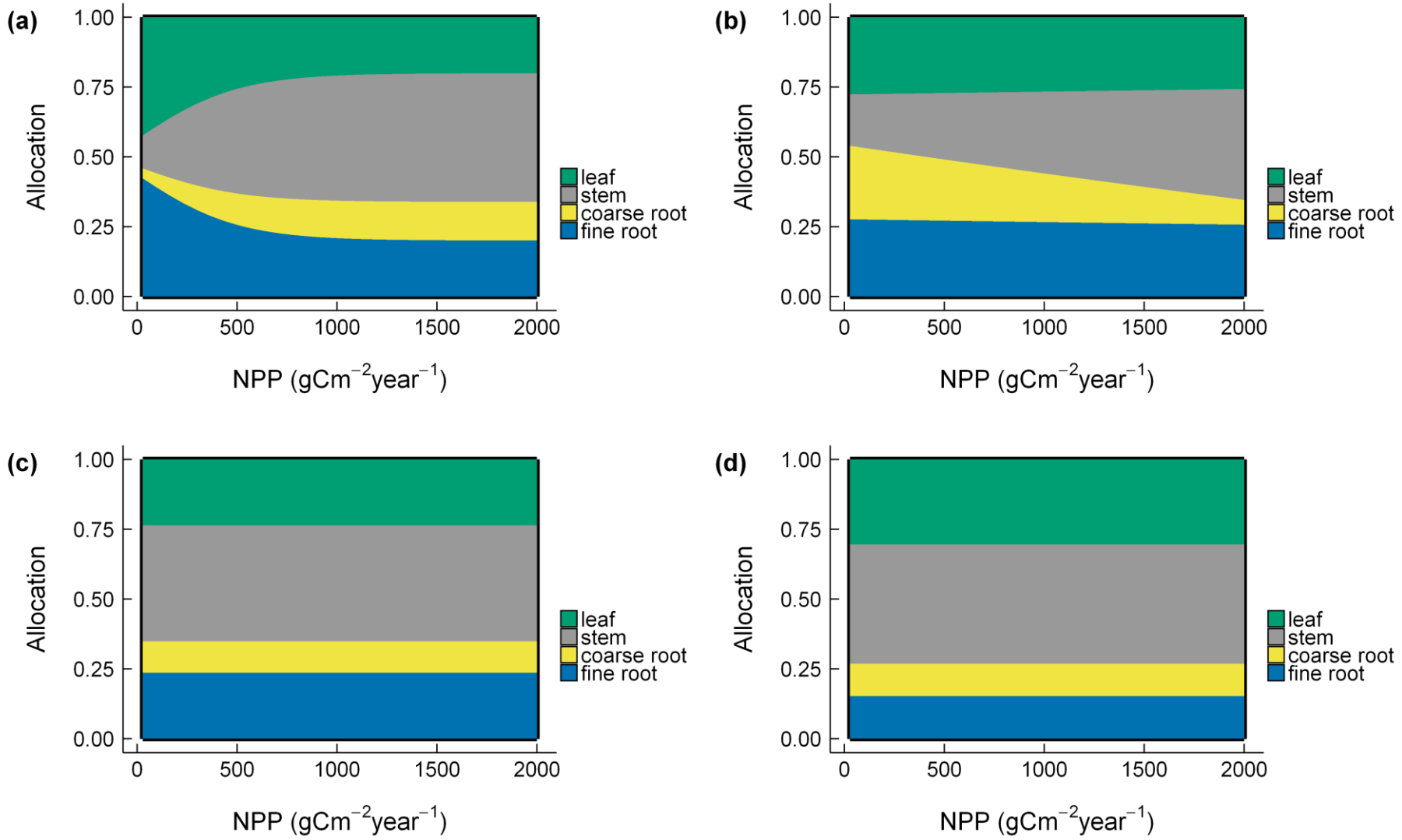
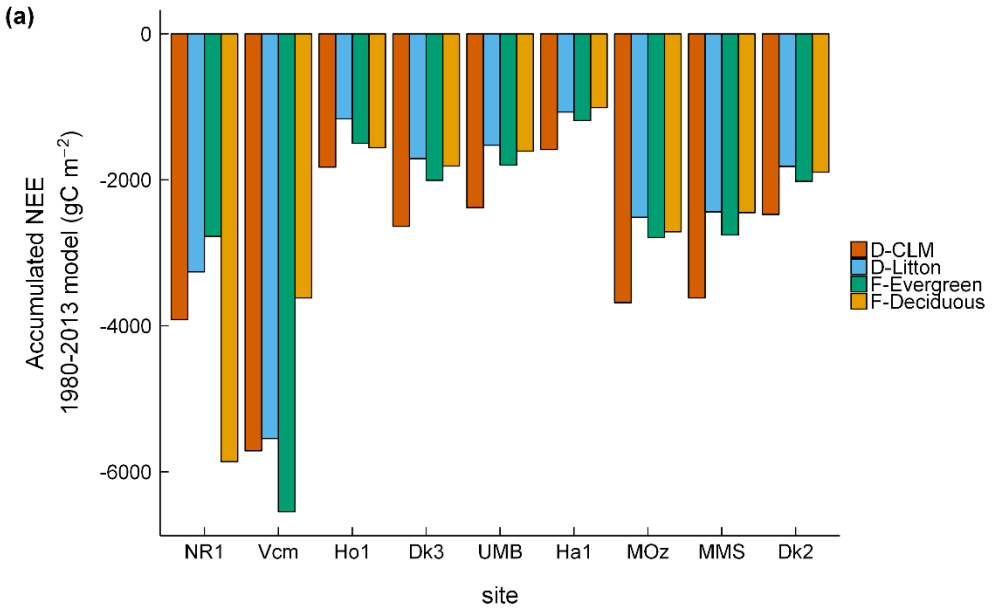
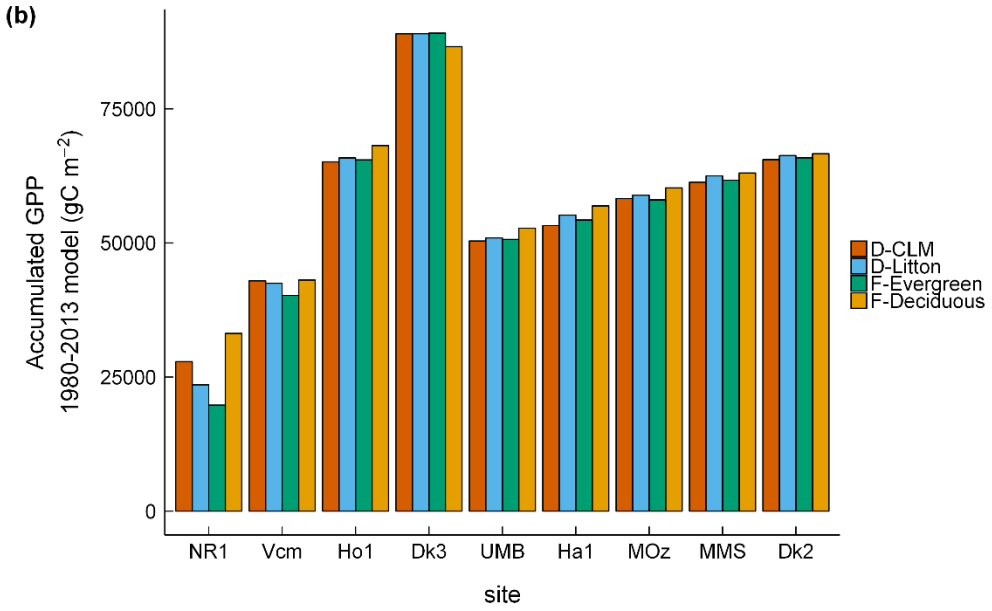

(a)
(b)
(c)
(d)
Allocation
1.00
0.75
0.50
0.25
0.00
0
500
1000
1500
2000
NPP (gCm^{-2}year^{-1})
leaf
stem
coarse root
fine root

Figure S1. Carbon allocation to the different plant pools (leaf, stem, coarse root, and fine root) as a function of annual Net Primary Productivity (NPP) in: (a) D-CLM C allocation scheme described in Oleson et al., 2013; (b) D-Litton C allocation scheme based on Litton et al., 2007; (c) F-Evergreen C allocation scheme based on Luyssaert et al., 2007; (d) F-Deciduous C allocation scheme based on Luyssaert et al., 2007.


(a)
Accumulated NEE
1980-2013 model (gC m^{-2})
0
-2000
-4000
-6000
NR1
Vcm
Ho1
Dk3
UMB
Ha1
MOz
MMS
Dk2
site
D-CLM
D-Litton
F-Evergreen
F-Deciduous


(b)
Accumulated GPP
1980-2013 model (gC m^{-2})
75000
50000
25000
0
NR1
Vcm
Ho1
Dk3
UMB
Ha1
MOz
MMS
Dk2
site
D-CLM
D-Litton
F-Evergreen
F-Deciduous

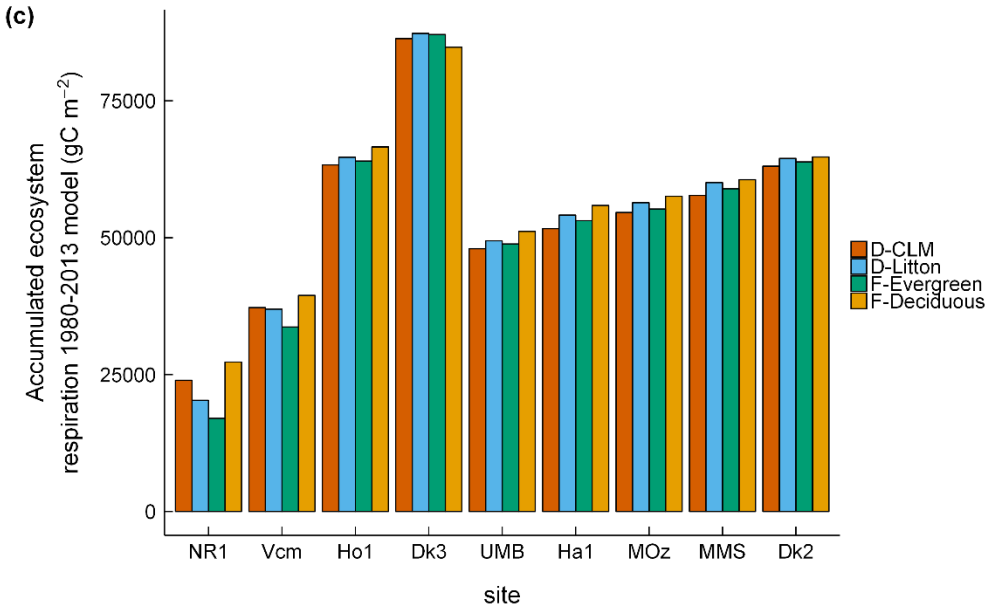

(c)
Accumulated ecosystem
respiration 1980-2013 model (gC m^{-2})
75000
50000
25000
0
NR1
Vcm
Ho1
Dk3
UMB
Ha1
MOz
MMS
Dk2
site
D-CLM
D-Litton
F-Evergreen
F-Deciduous

Figure S2. Accumulated (a) NEE, (b) GPP, (c) and ecosystem respiration during 1980-2013 for the four C allocation schemes.