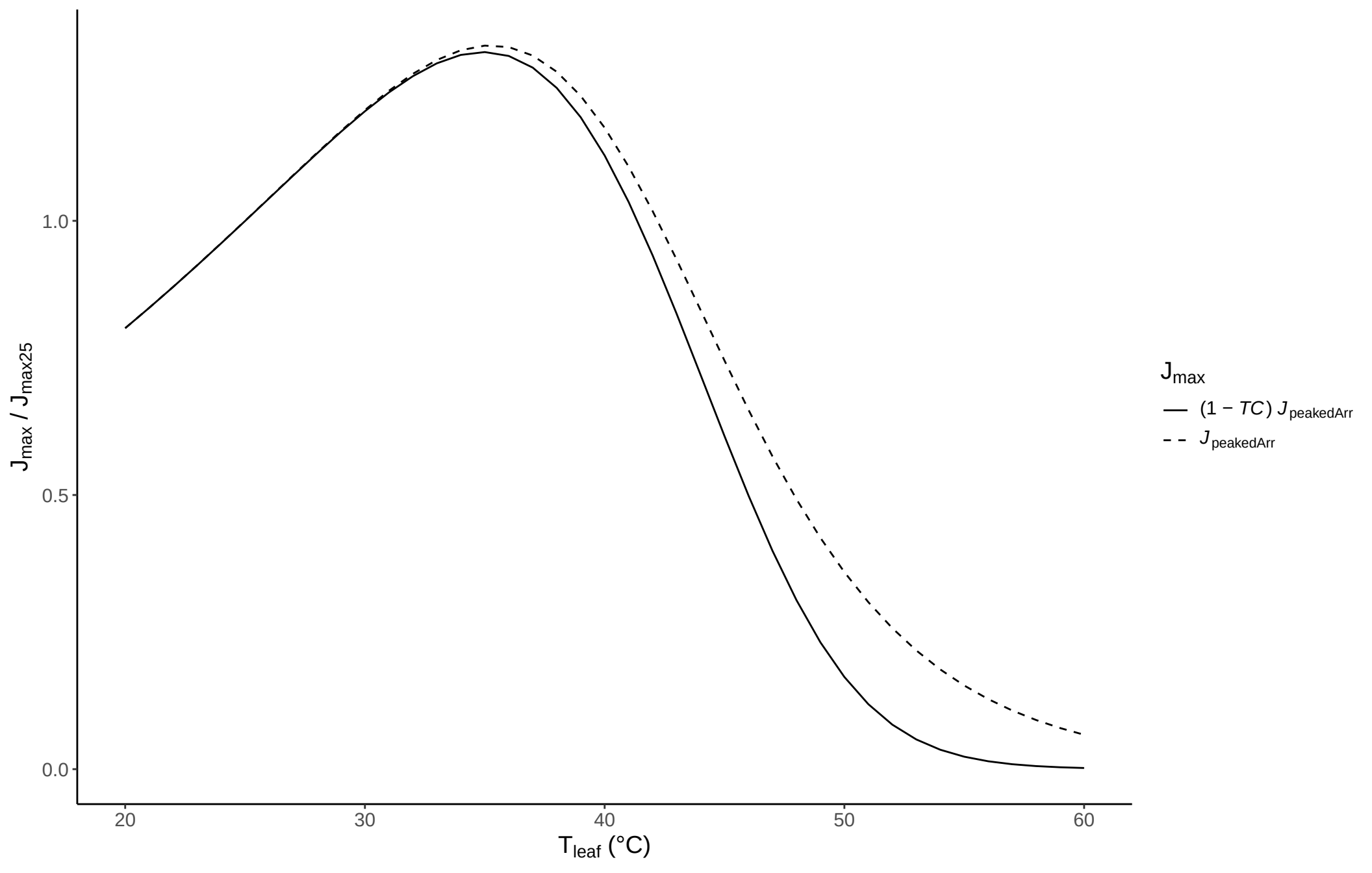
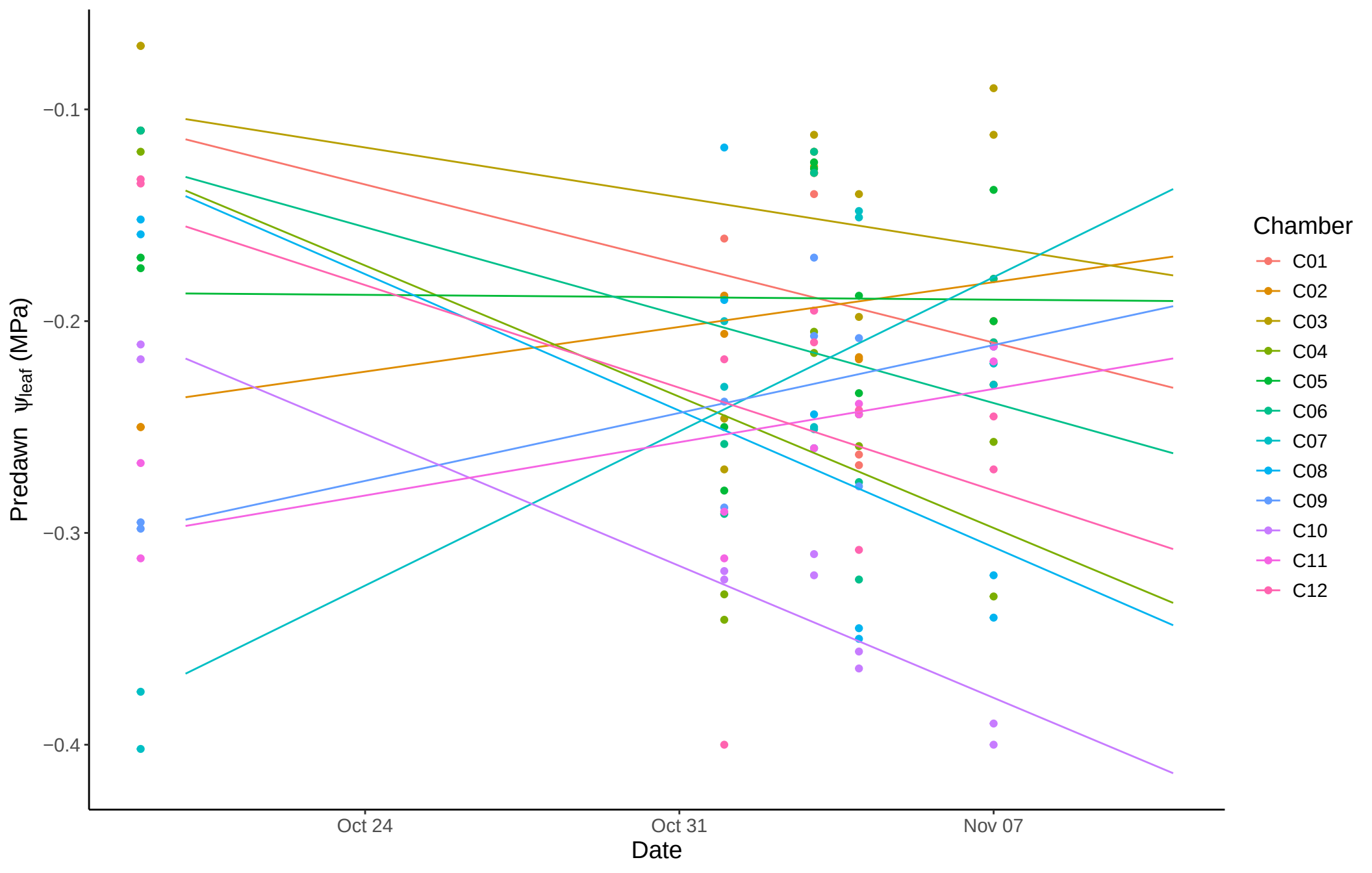
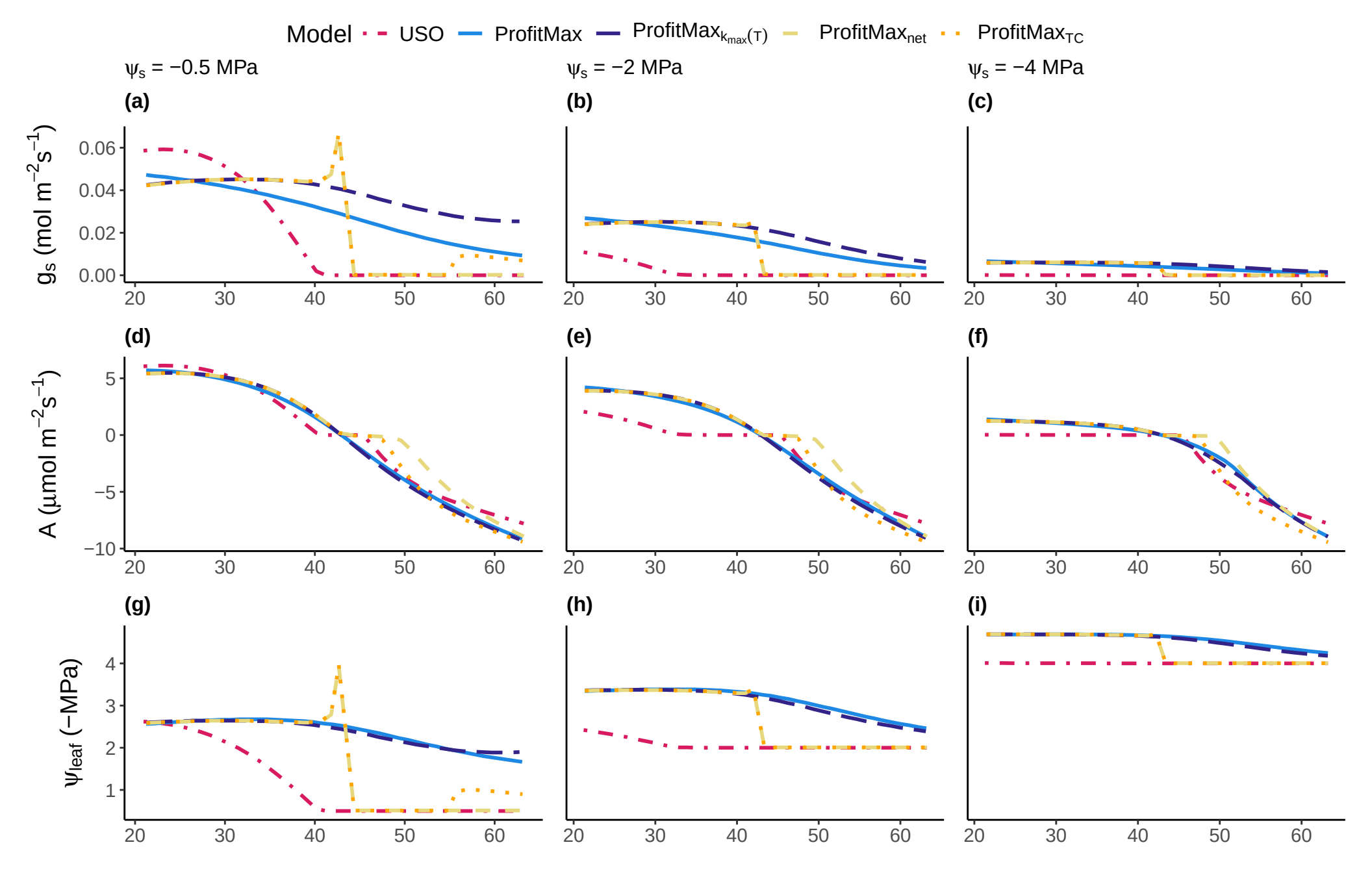
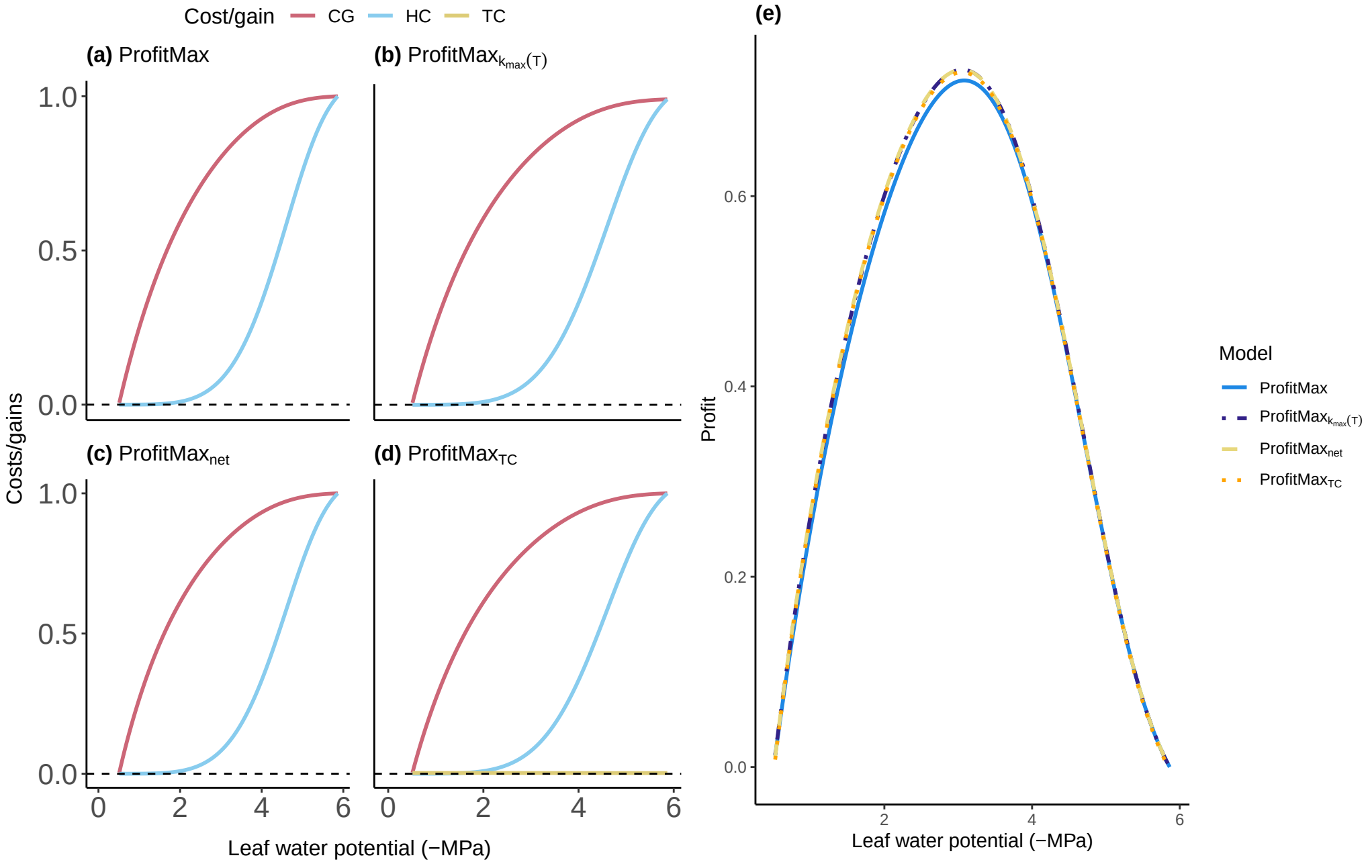
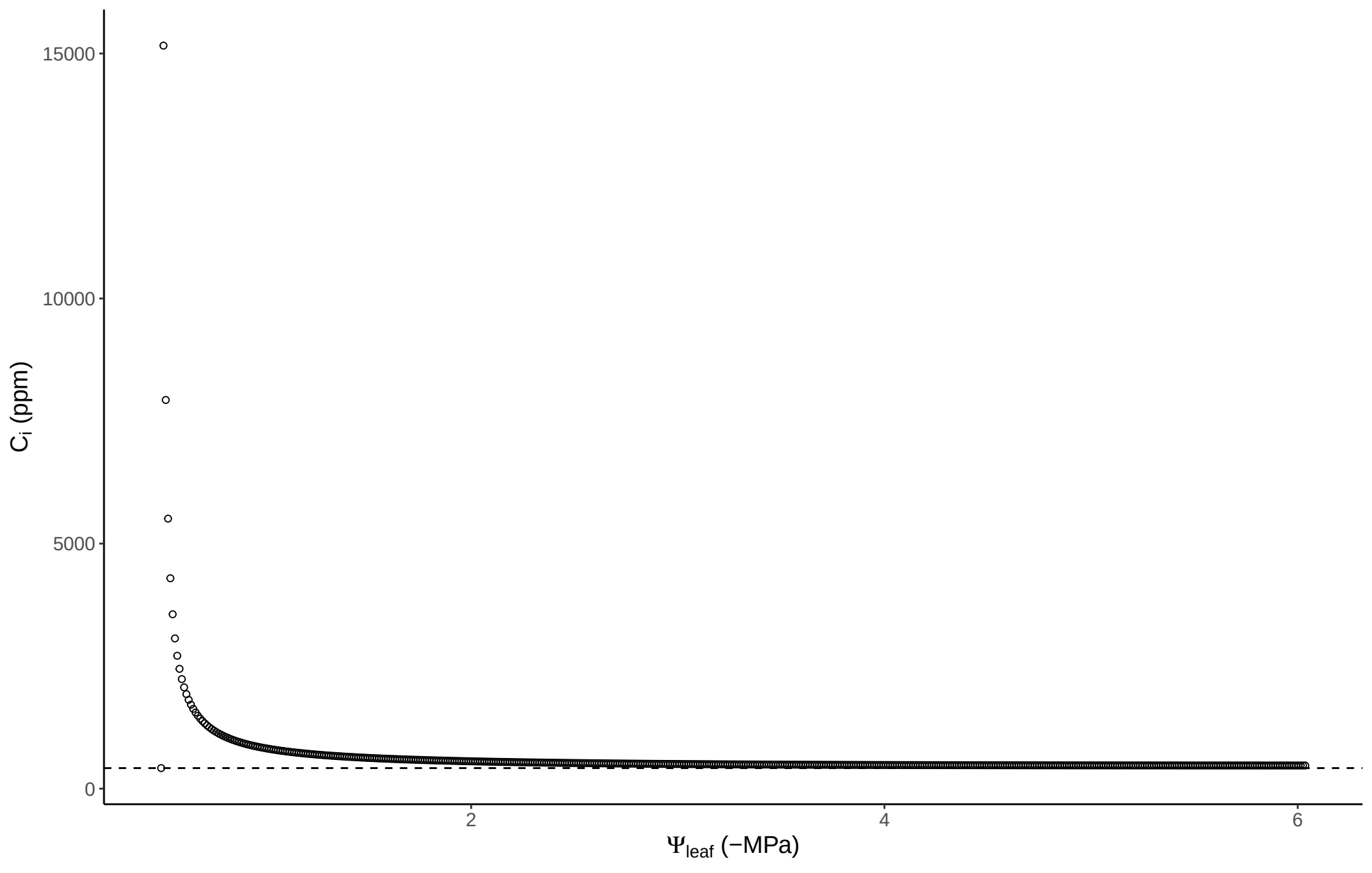
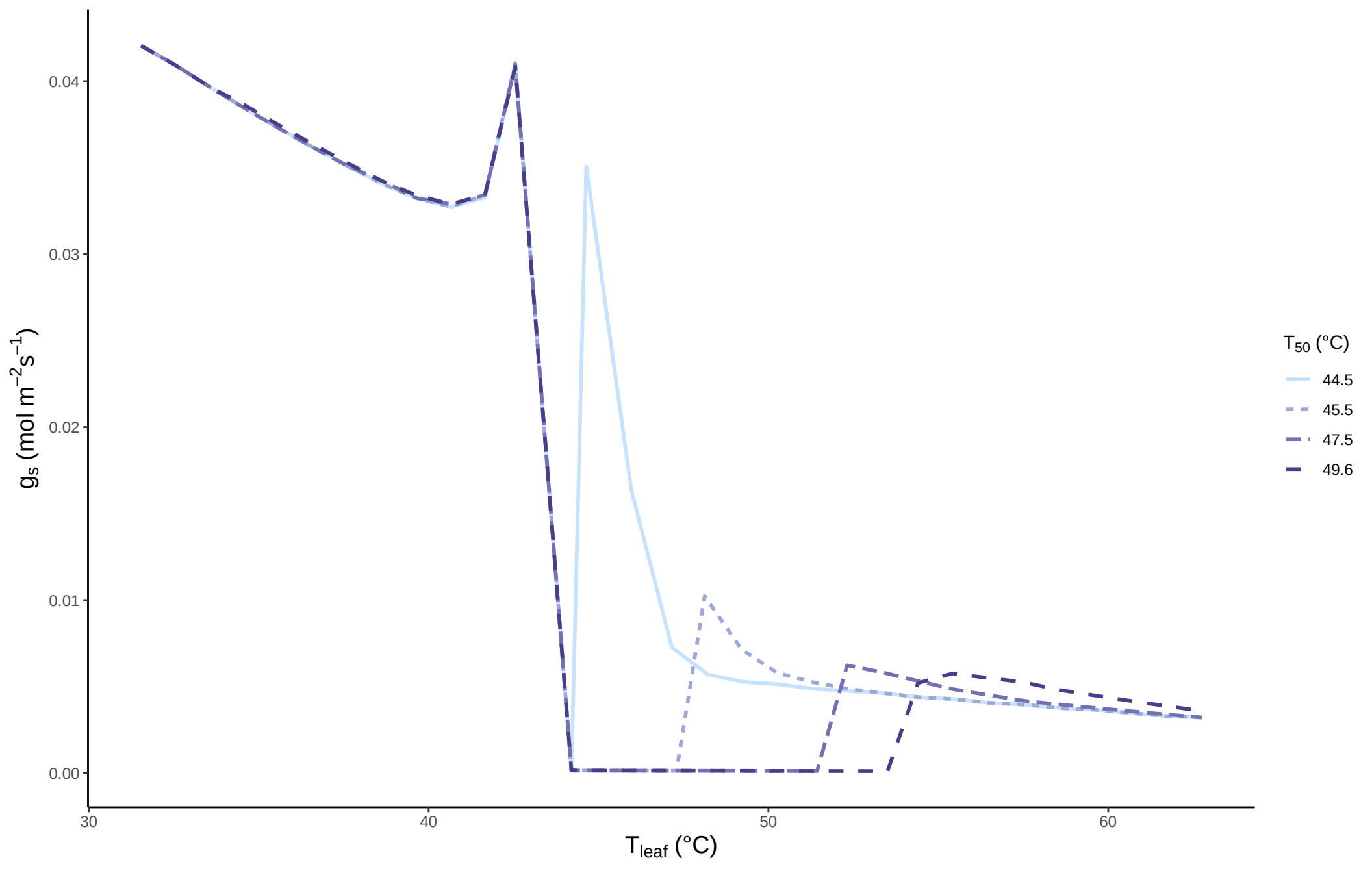

1.0
0.5
0.0
J_{max} / J_{max25}
20
30
40
50
60
T_{leaf} (°C)
J_{max}
(1 − TC) $J_{peakedArr}$
$J_{peakedArr}$


−0.1
−0.2
−0.3
−0.4
Predawn ψleaf (MPa)
Oct 24
Oct 31
Nov 07
Date
Chamber
C01
C02
C03
C04
C05
C06
C07
C08
C09
C10
C11
C12


Model
USO
ProfitMax
ProfitMax$_{k_{max}(T)}$
ProfitMax$_{net}$
ProfitMax$_{TC}$
ψ_s = −0.5 MPa
ψ_s = −2 MPa
ψ_s = −4 MPa
(a)
(b)
(c)
(d)
(e)
(f)
(g)
(h)
(i)
g_s (mol m^{-2}s^{-1})
A (µmol m^{-2}s^{-1})
ψ_{leaf} (−MPa)
0.06
0.04
0.02
0.00
5
0
−5
−10
4
3
2
1
20
30
40
50
60


Cost/gain
CG
HC
TC
(a) ProfitMax
(b) ProfitMax$_{k_{max}(T)}$
(c) ProfitMax$_{net}$
(d) ProfitMax$_{TC}$
Costs/gains
1.0
0.5
0.0
0
2
4
6
Leaf water potential (−MPa)
(e)
Profit
0.6
0.4
0.2
0.0
2
4
6
Leaf water potential (−MPa)
Model
ProfitMax
ProfitMax$_{k_{max}(T)}$
ProfitMax$_{net}$
ProfitMax$_{TC}$


15000
10000
5000
0
C_i (ppm)
2
4
6
Ψ_{leaf} (−MPa)


0.04
0.03
0.02
0.01
0.00
g_s (mol $m^{-2}s^{-1}$)
30
40
50
60
T_{leaf} (°C)
T_{50} (°C)
44.5
45.5
47.5
49.6