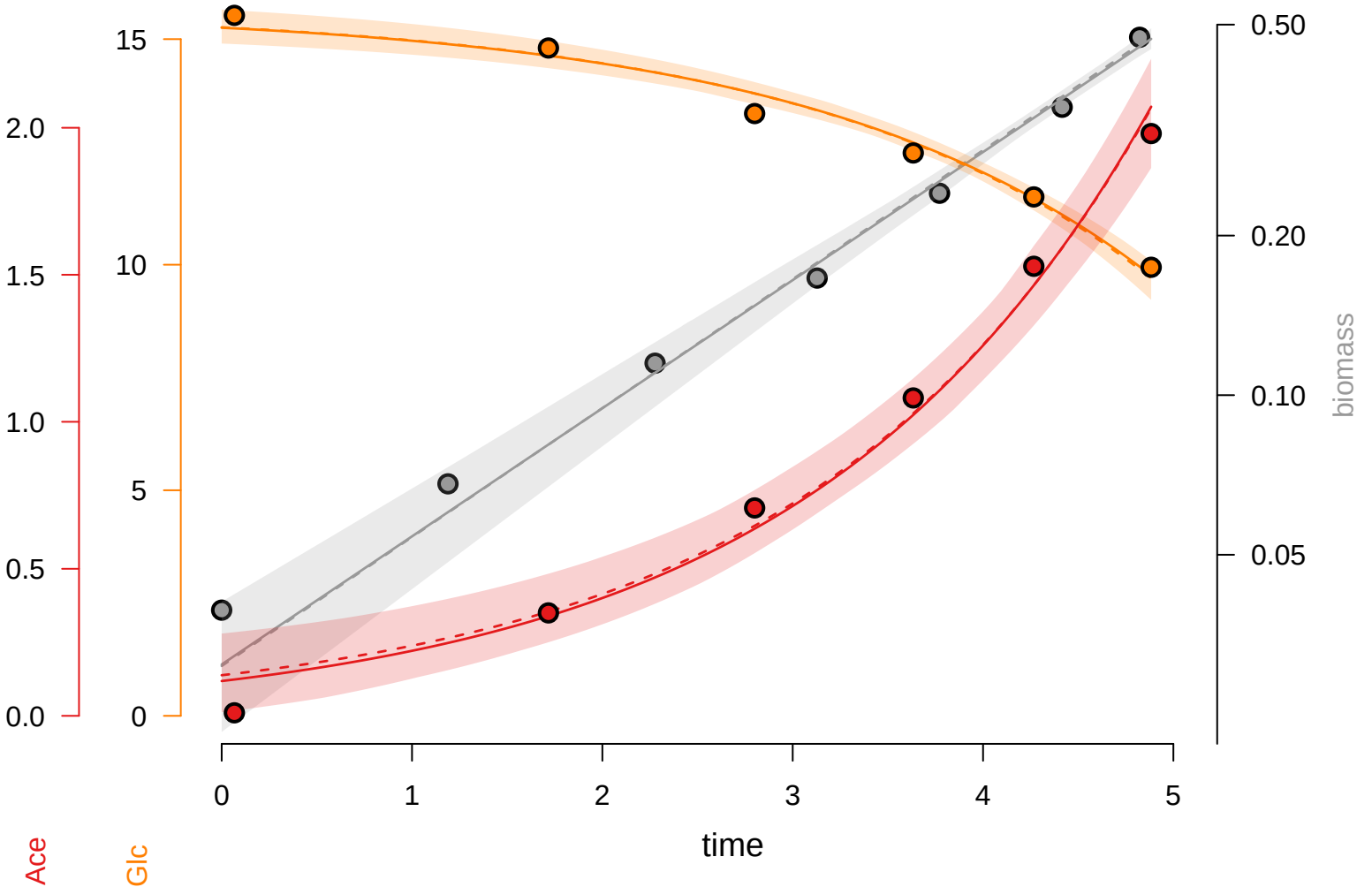
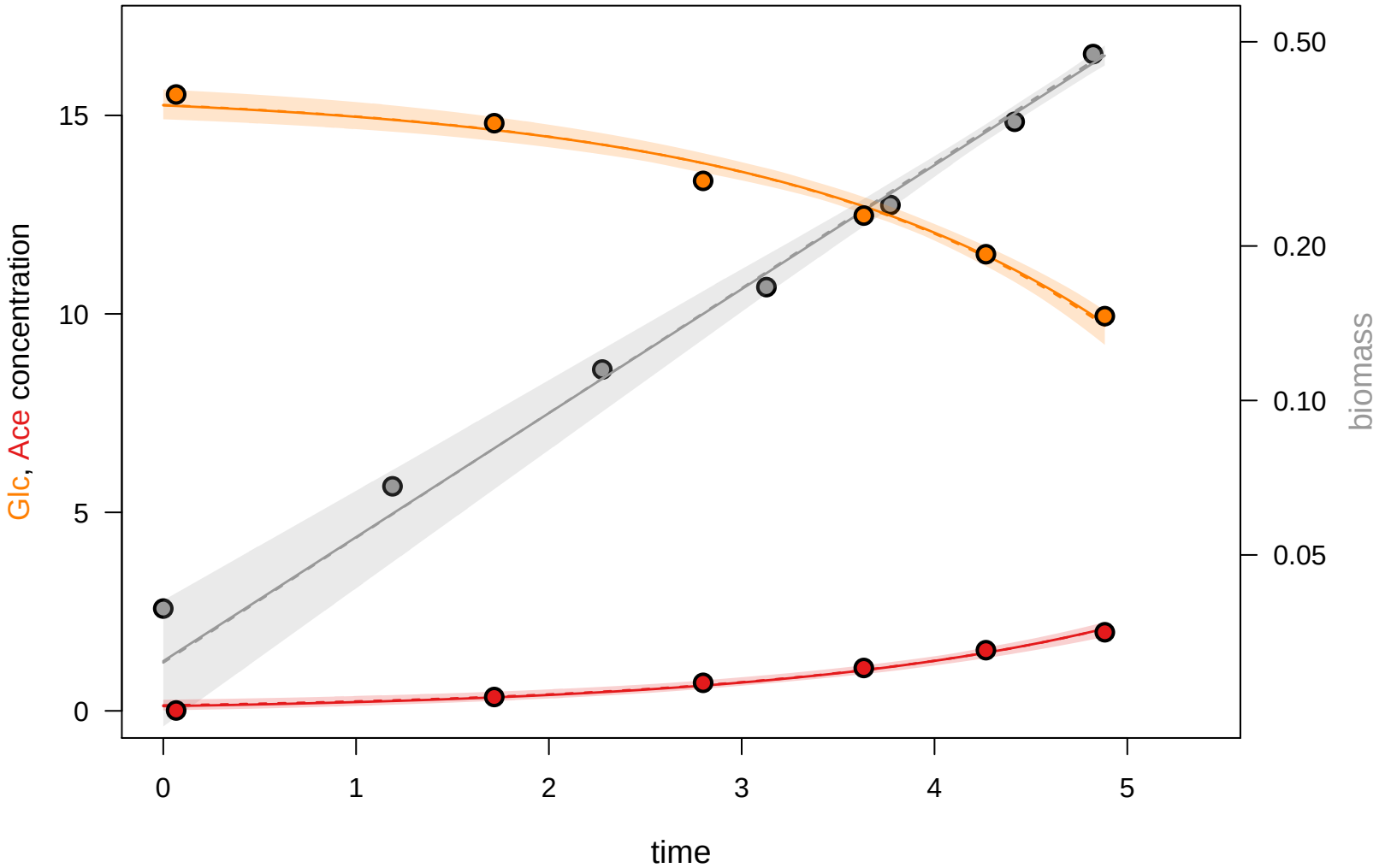
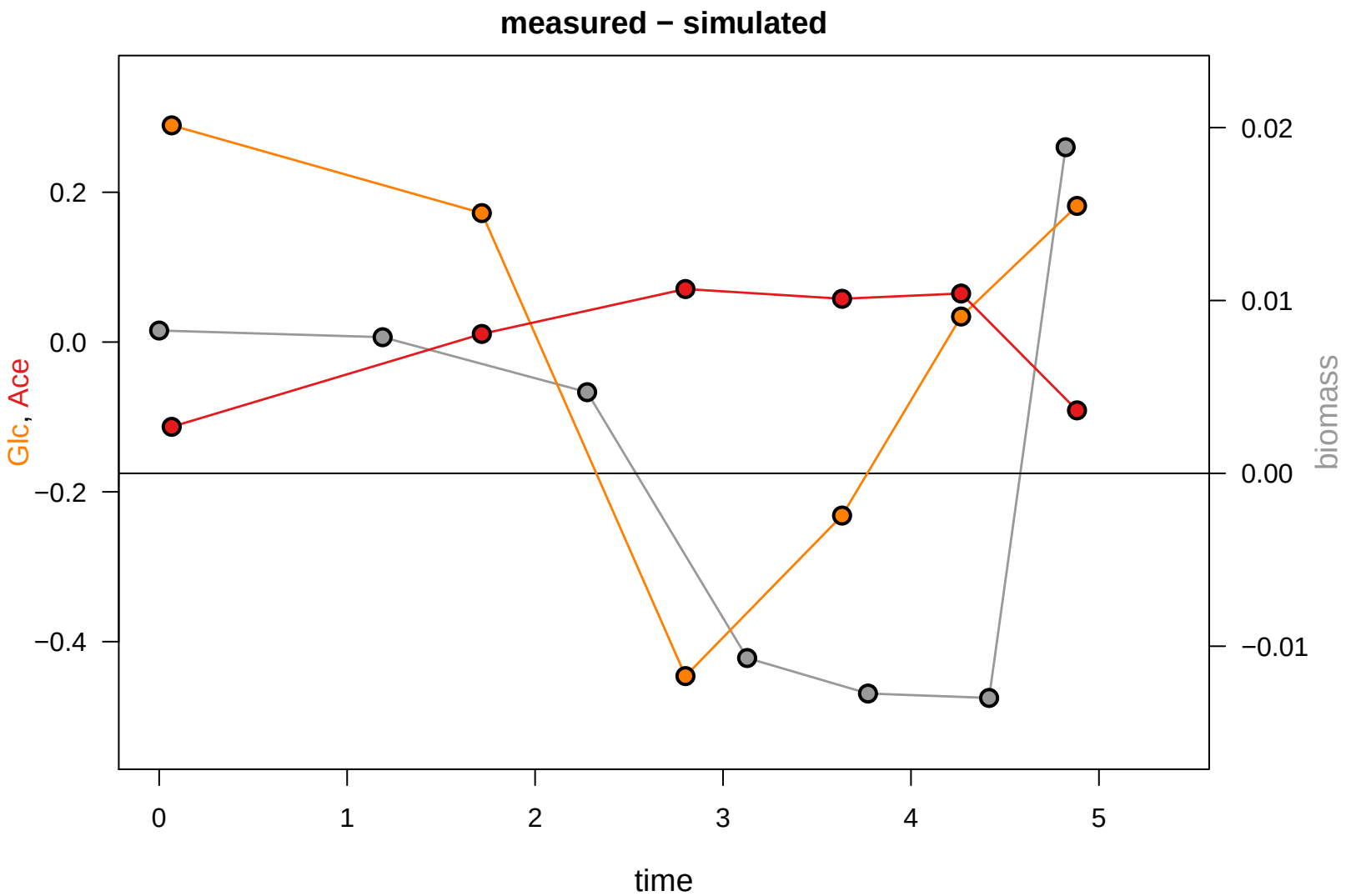

15
10
5
0
2.0
1.5
1.0
0.5
0.0
0.50
0.20
0.10
0.05
biomass
0
1
2
3
4
5
time
Ace
Glc


Glc, Ace concentration
biomass
time
0
5
10
15
0.05
0.10
0.20
0.50
0
1
2
3
4
5


measured − simulated
Glc, Ace
biomass
time
0.2
0.0
−0.2
−0.4
0.02
0.01
0.00
−0.01
0
1
2
3
4
5