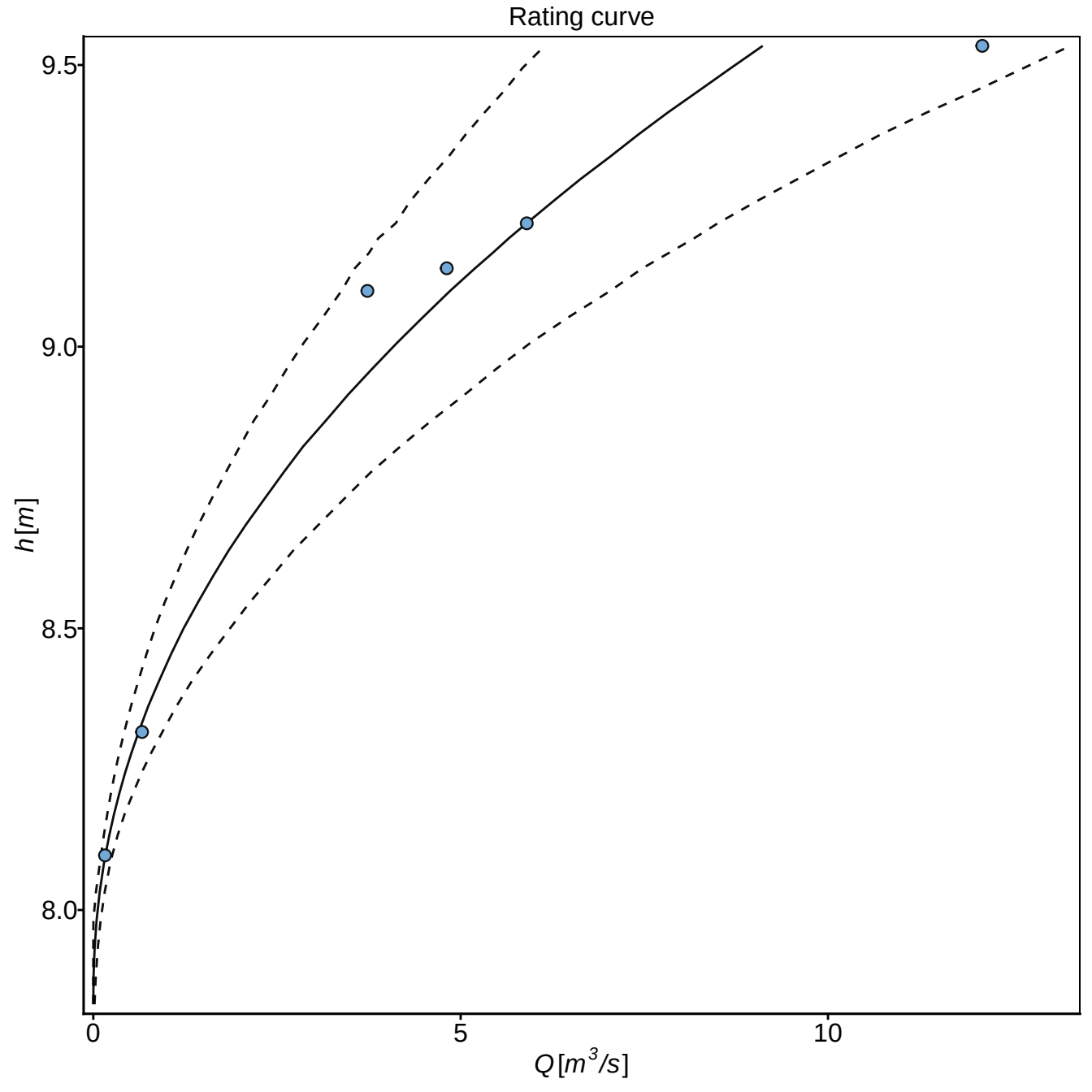
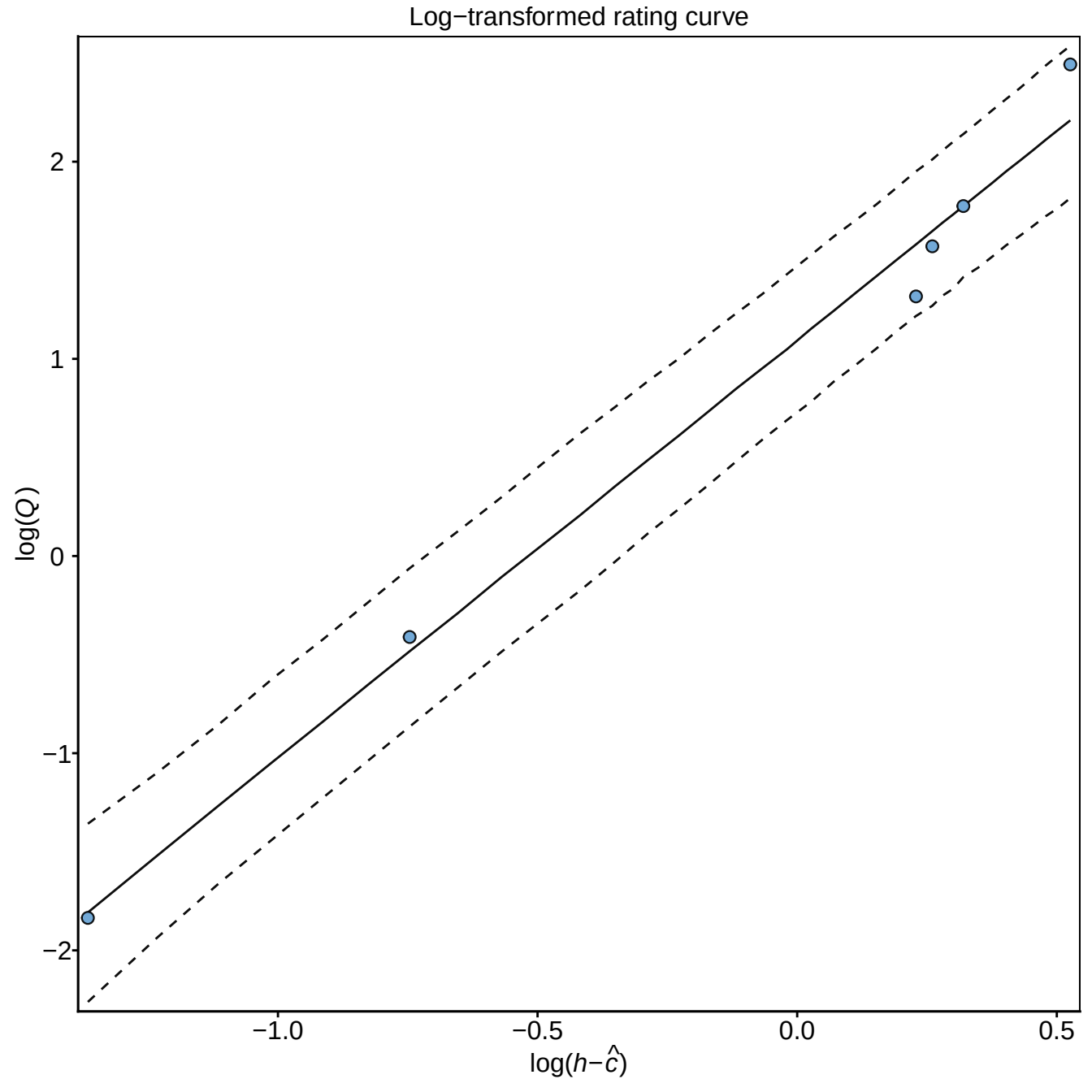
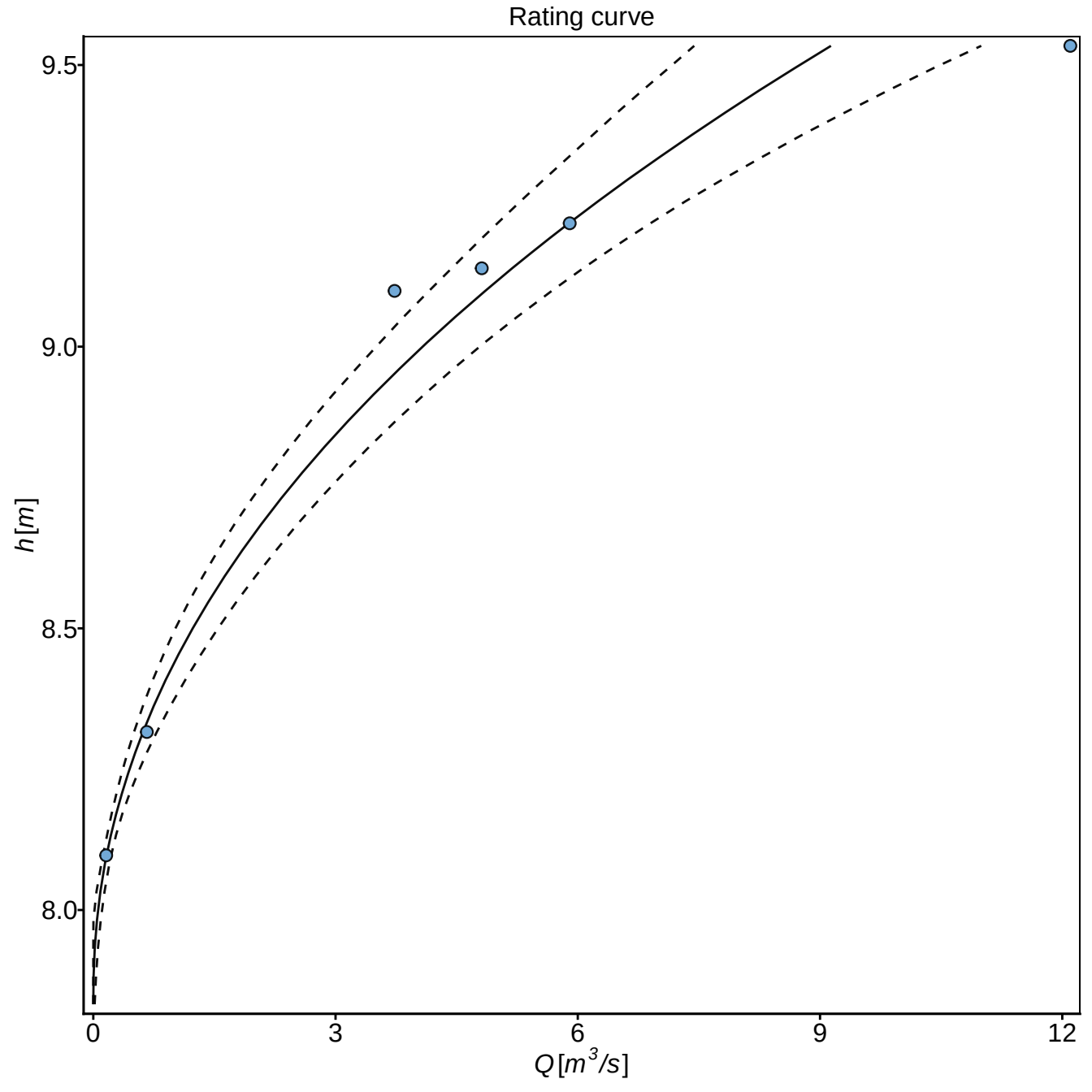
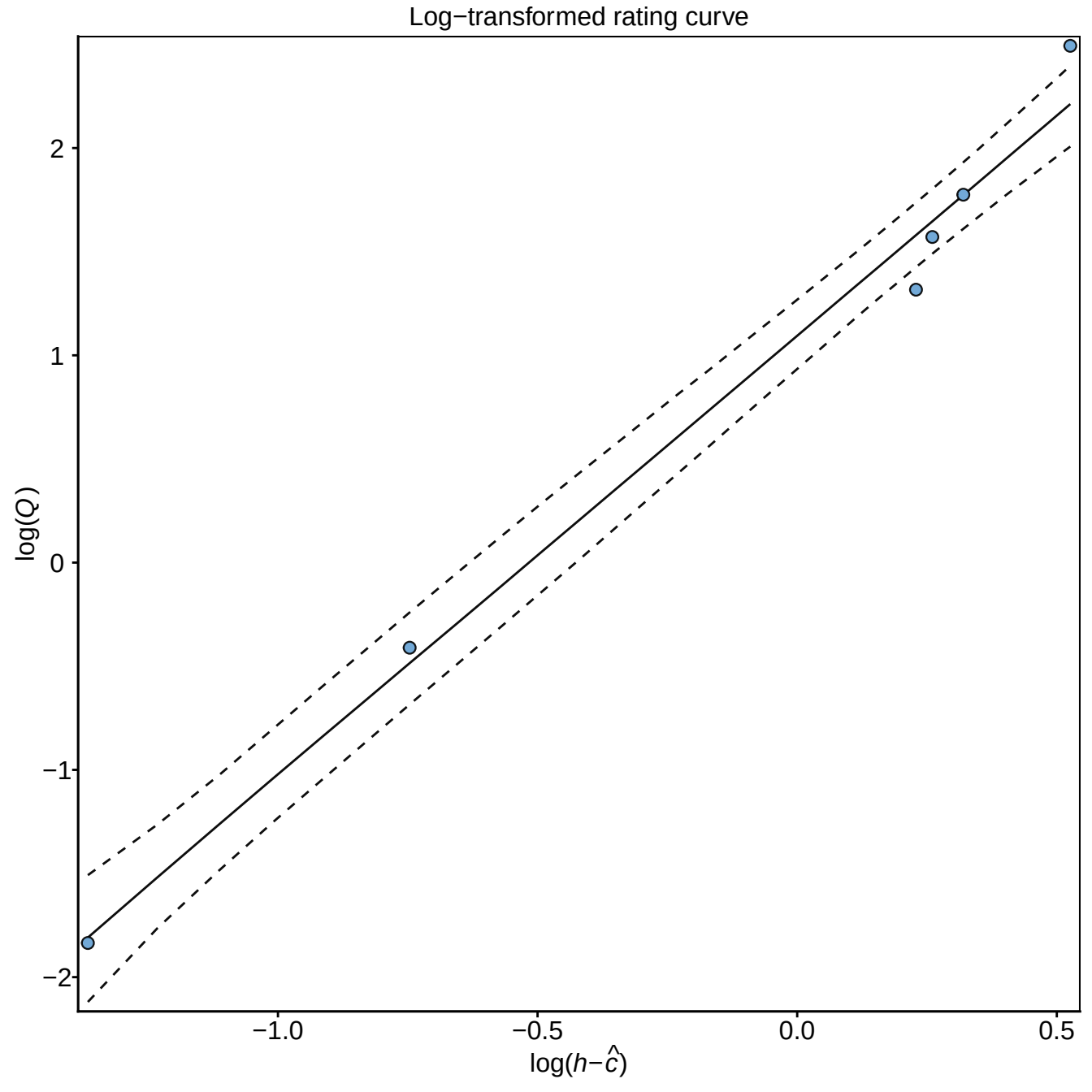
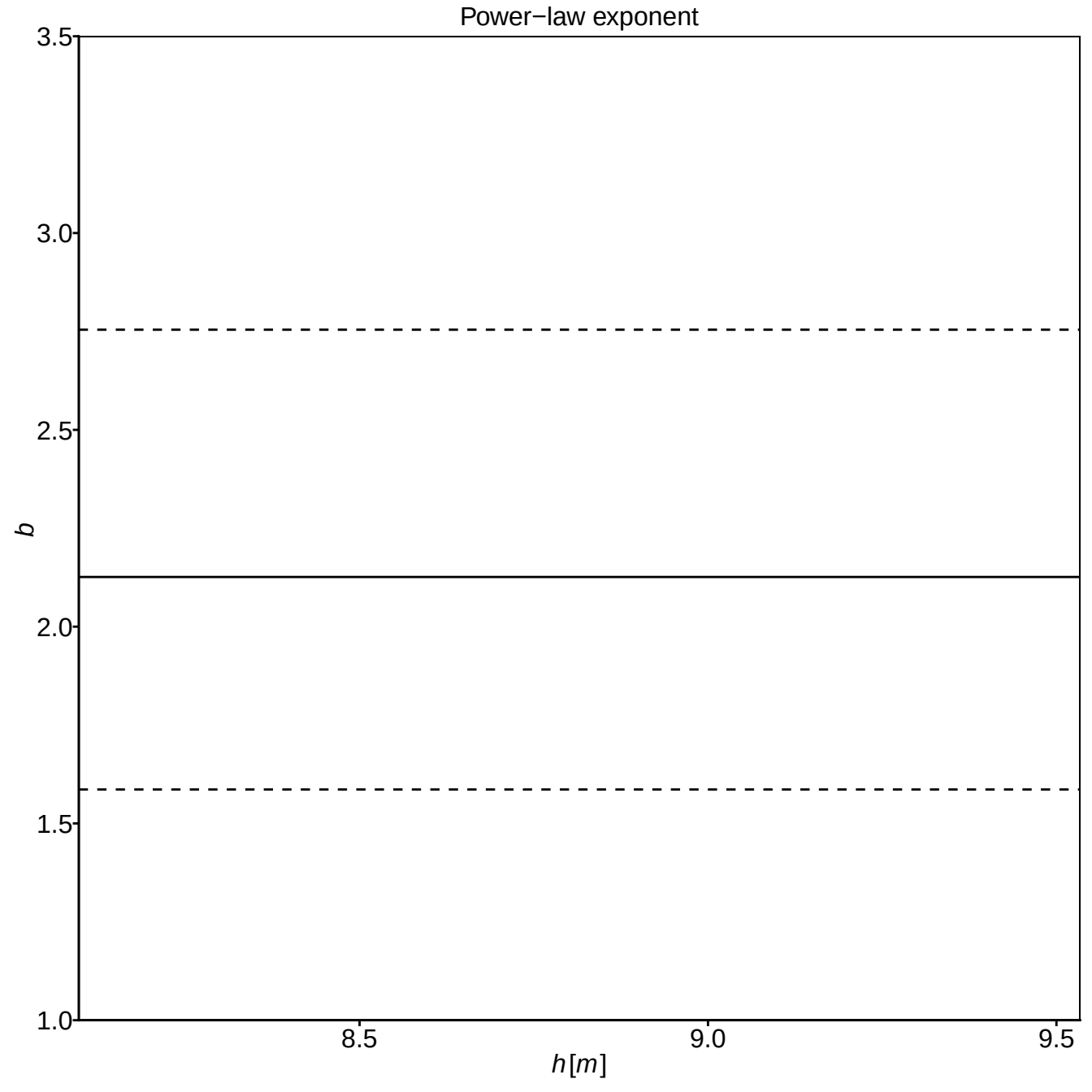
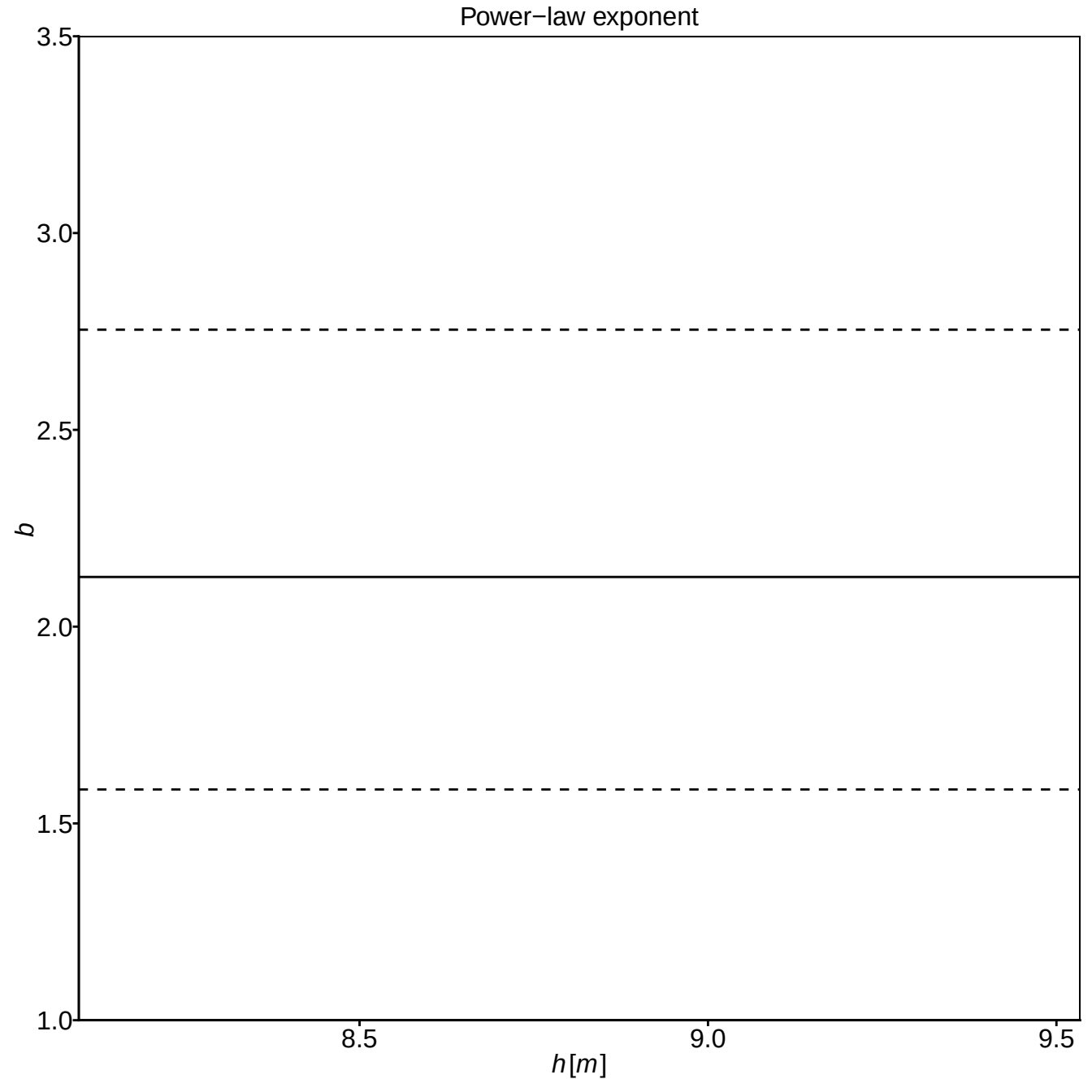

Rating curve
9.5
9.0
8.5
8.0
h [m]
0
5
10
Q [m³/s]

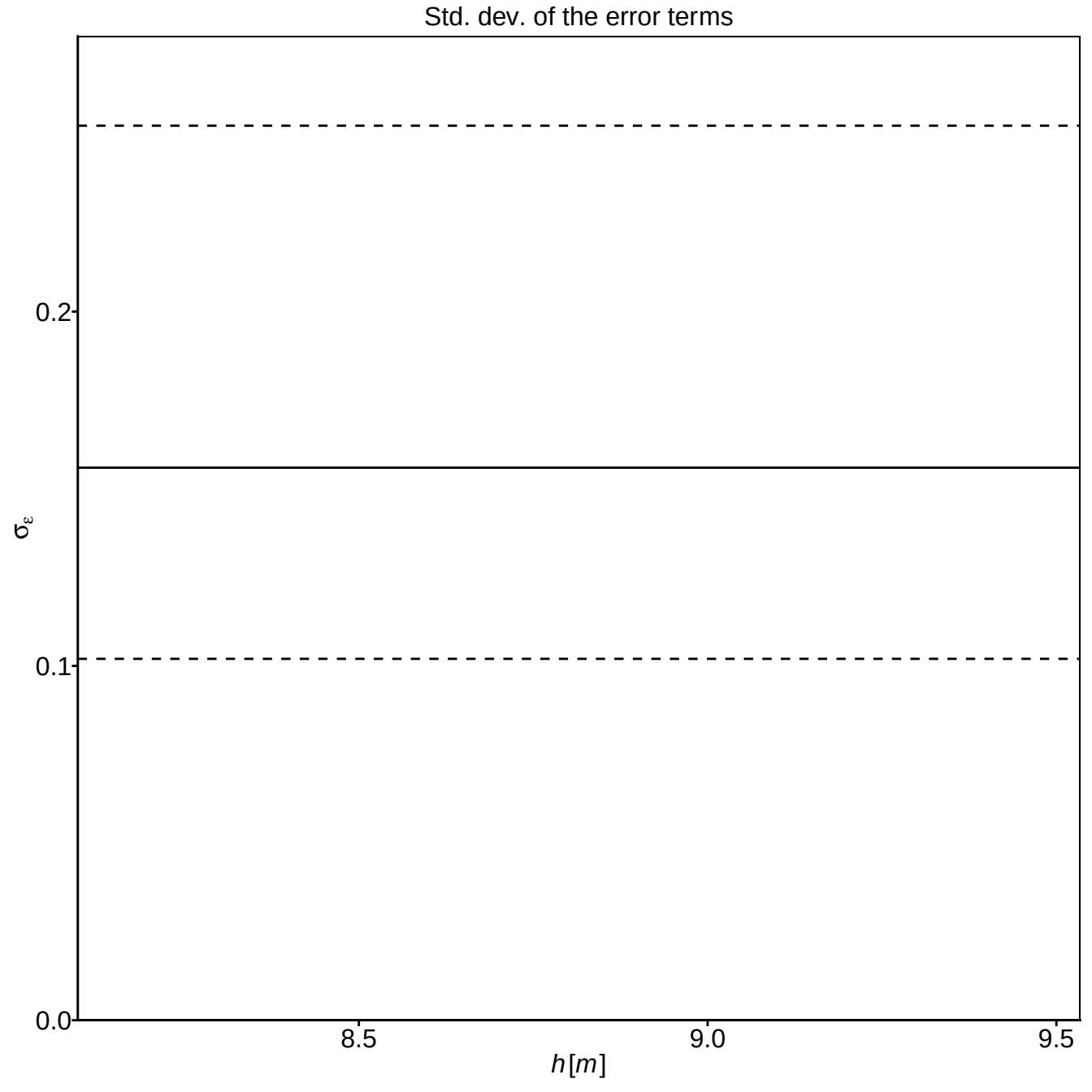

Log−transformed rating curve
log(Q)
2
1
0
−1
−2
−1.0
−0.5
0.0
0.5
log(h−ĉ)

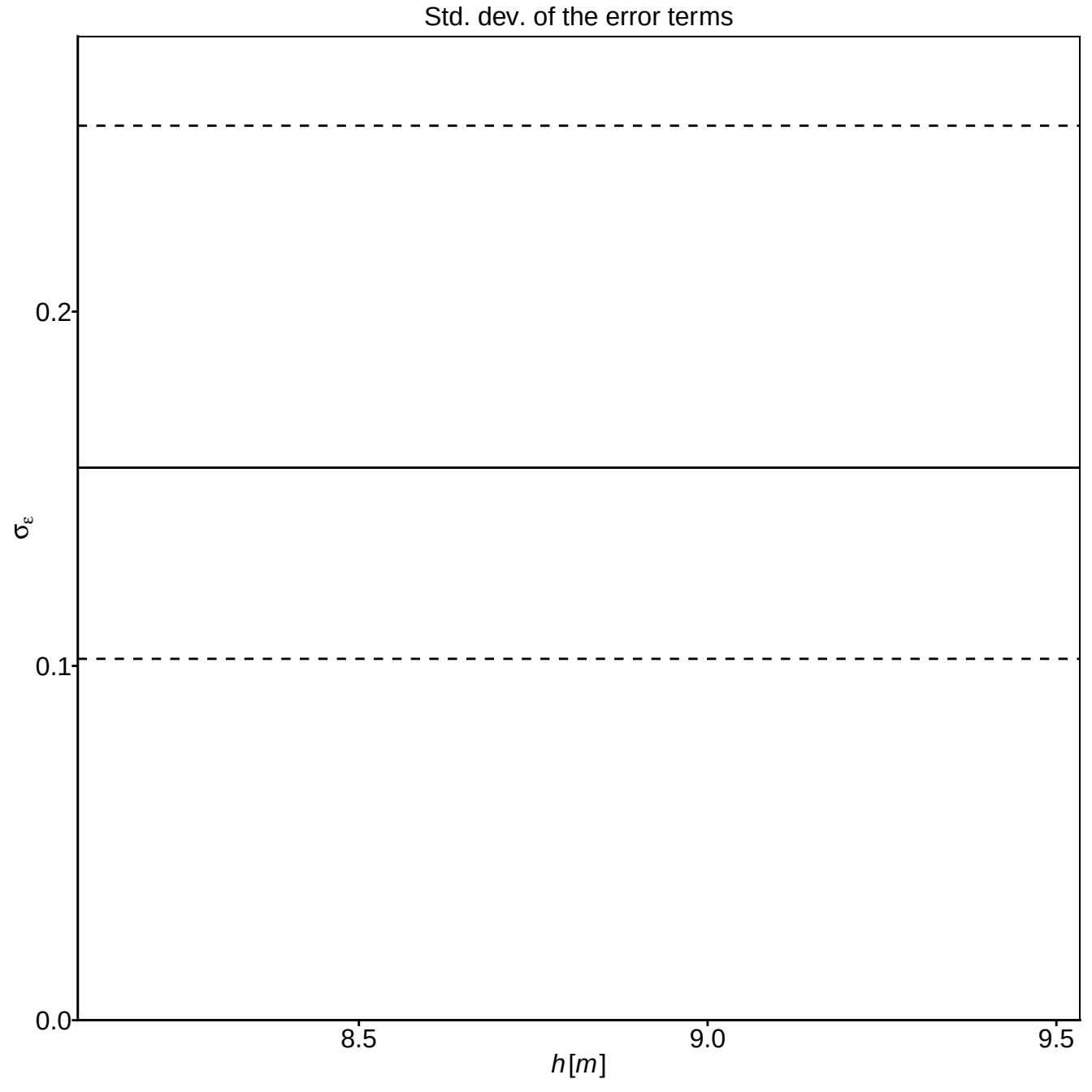

Rating curve
9.5
9.0
8.5
8.0
h [m]
0
3
6
9
12
Q [m3/s]

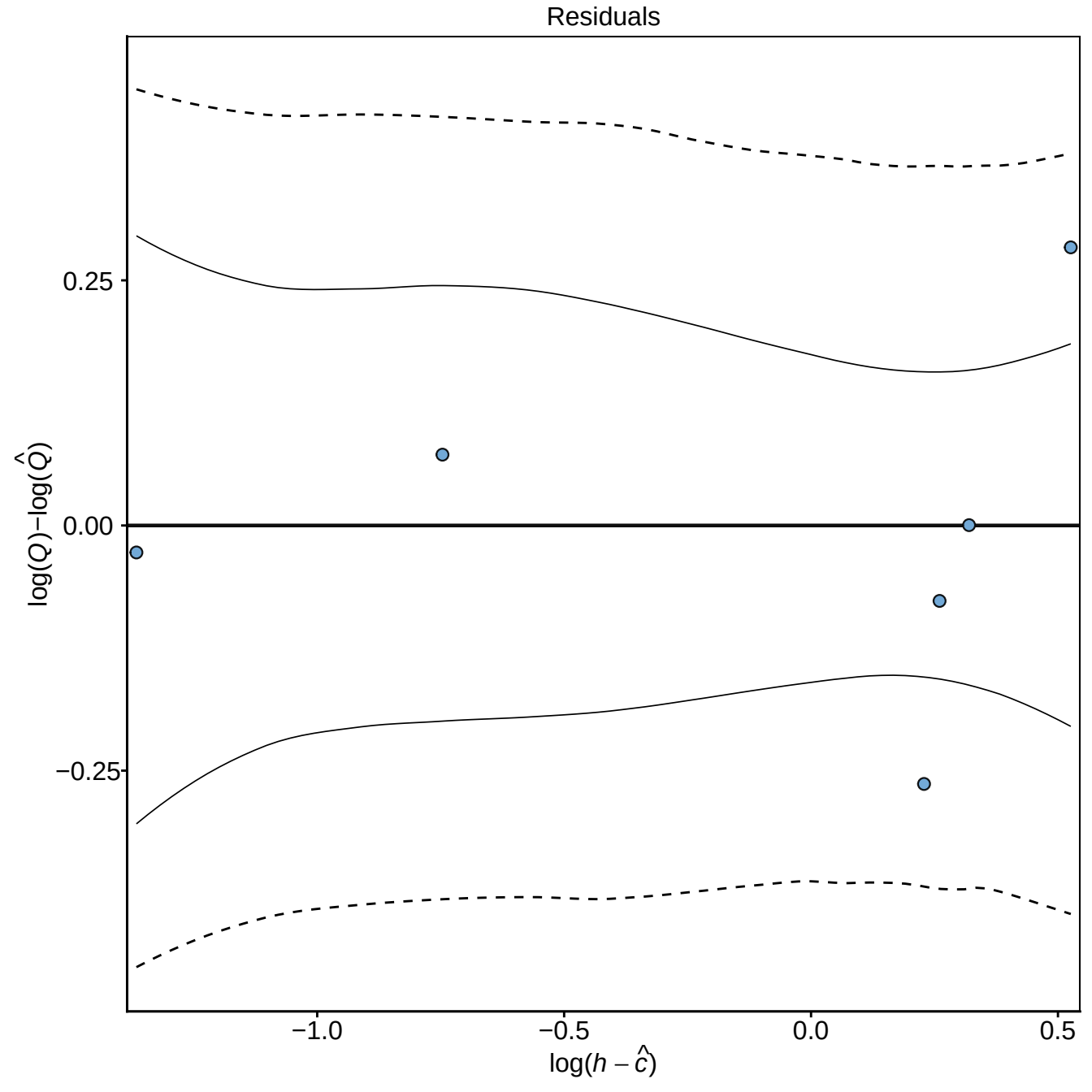

Log−transformed rating curve
log(Q)
2
1
0
−1
−2
−1.0
−0.5
0.0
0.5
log(h−ĉ)

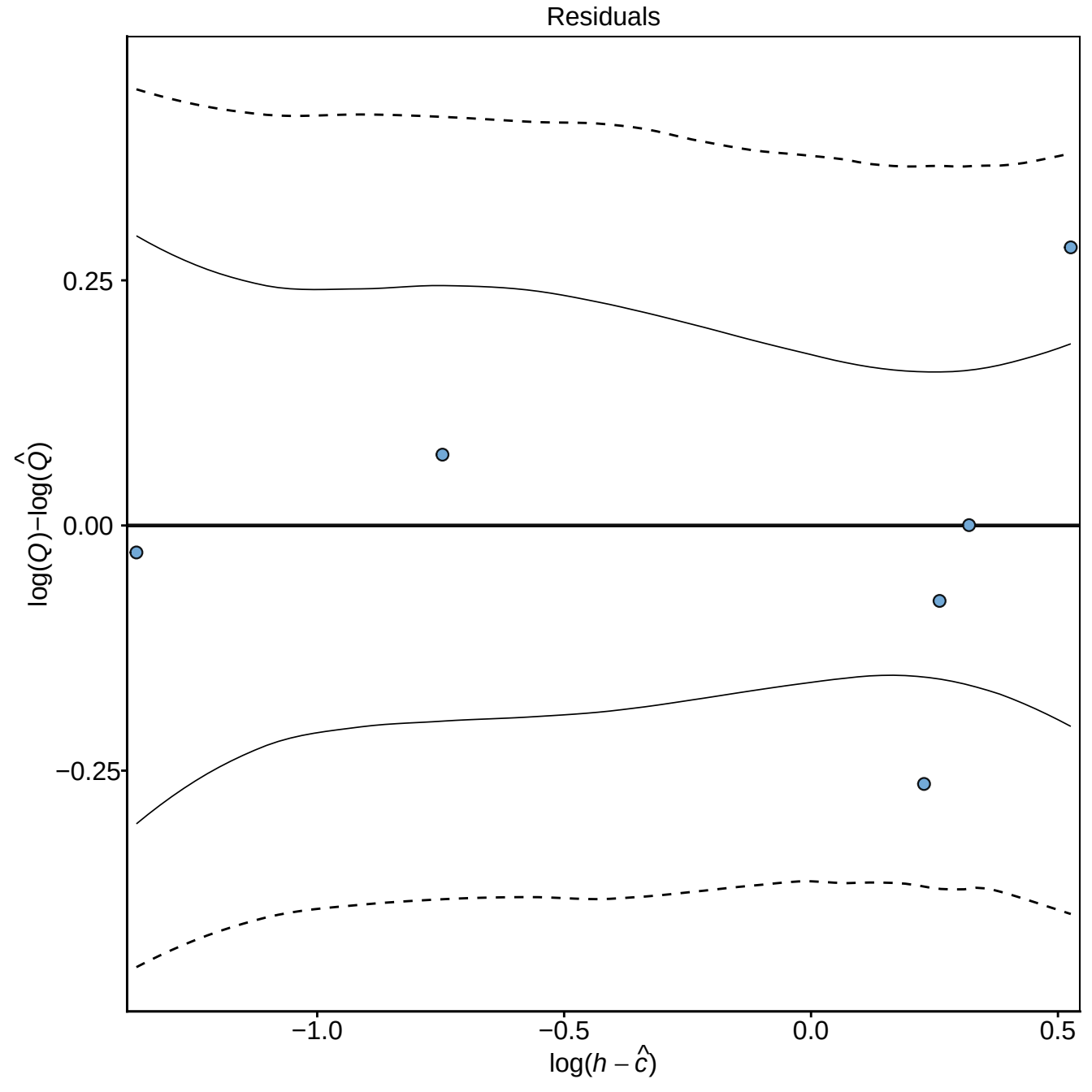

Power−law exponent
3.5
3.0
2.5
2.0
1.5
1.0
b
8.5
9.0
9.5
h[m]

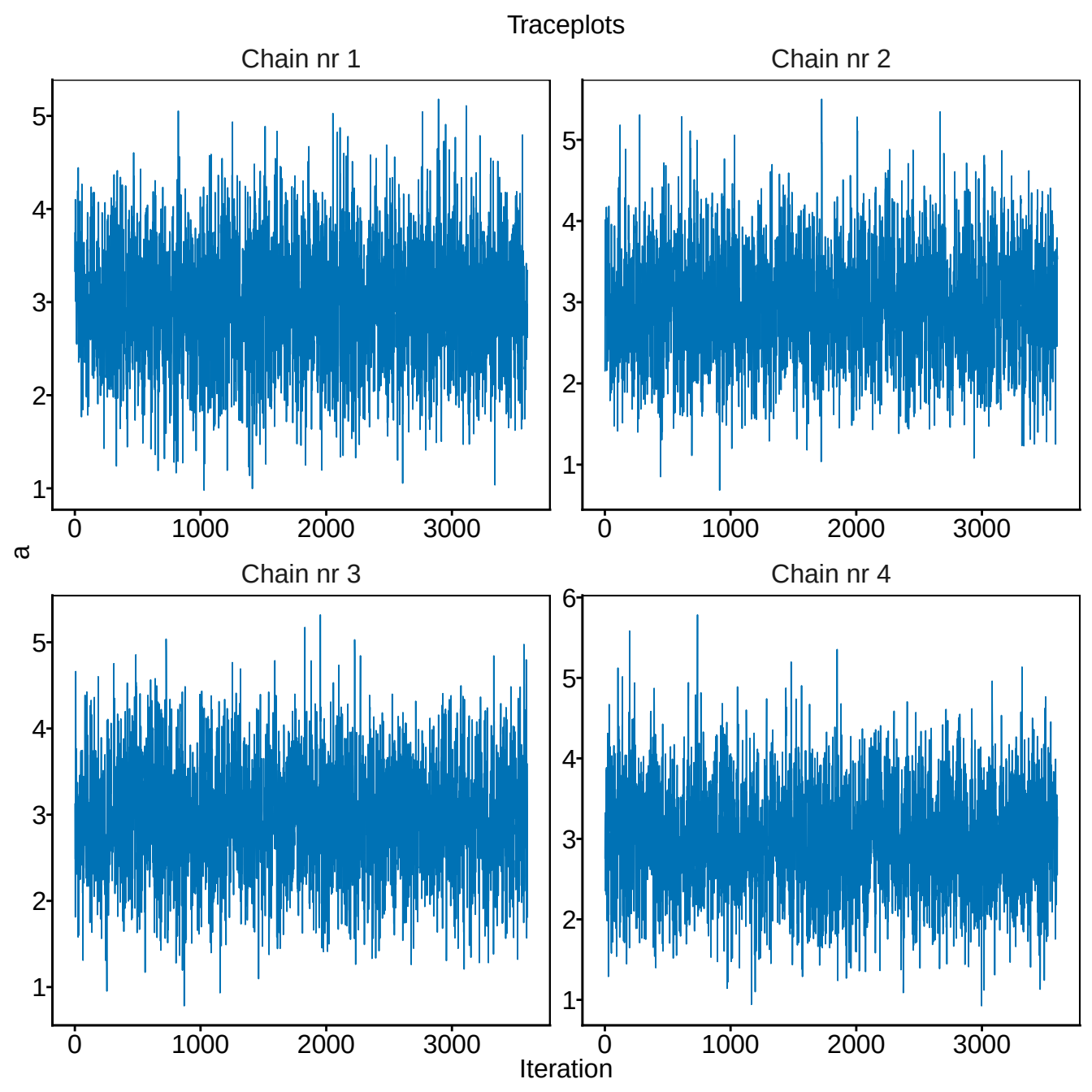

Power−law exponent
3.5
3.0
2.5
2.0
1.5
1.0
b
8.5
9.0
9.5
h[m]

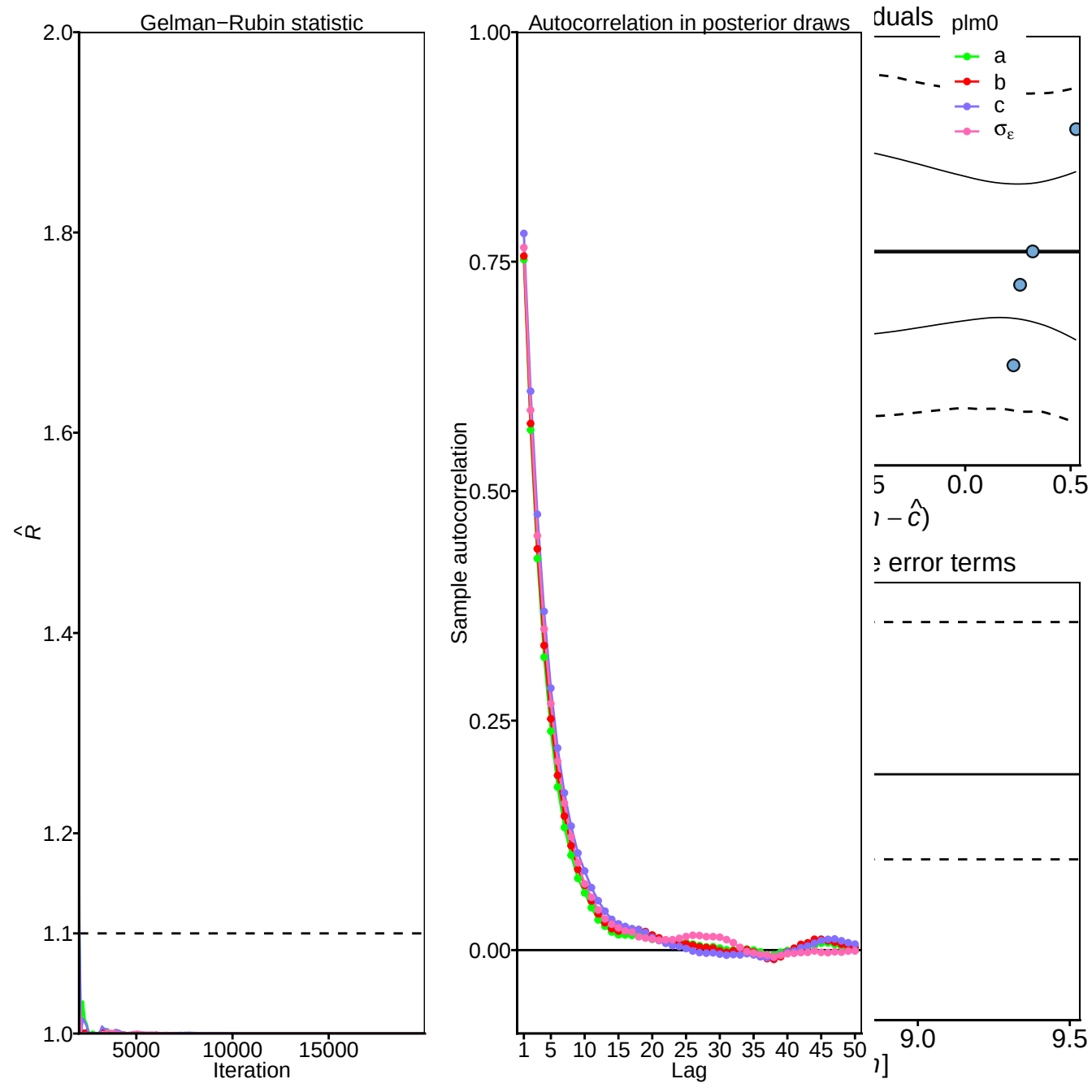

Std. dev. of the error terms
0.2
0.1
0.0
σ_ε
8.5
9.0
9.5
$h[m]$

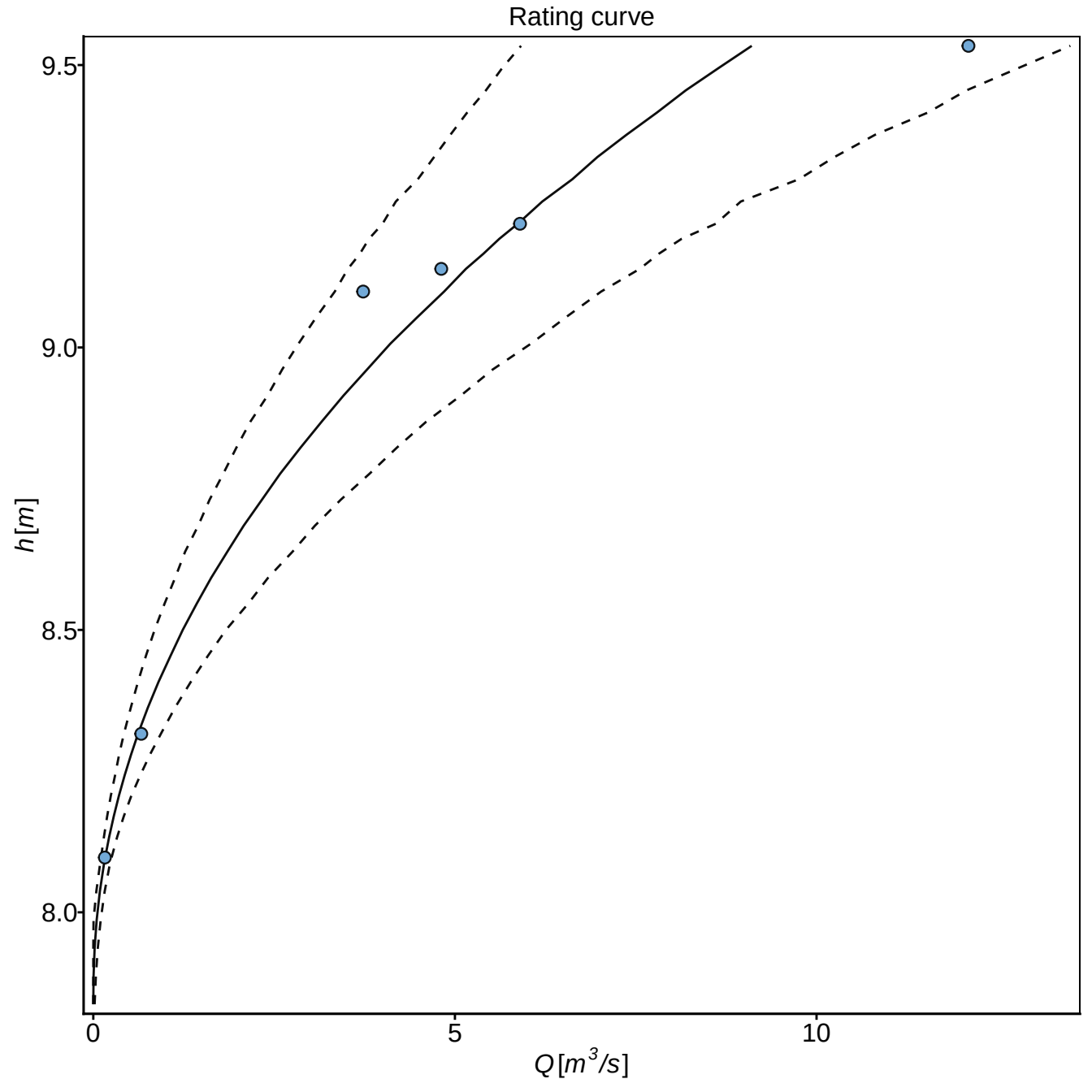

Std. dev. of the error terms
0.2
0.1
0.0
σ_ε
8.5
9.0
9.5
$h[m]$

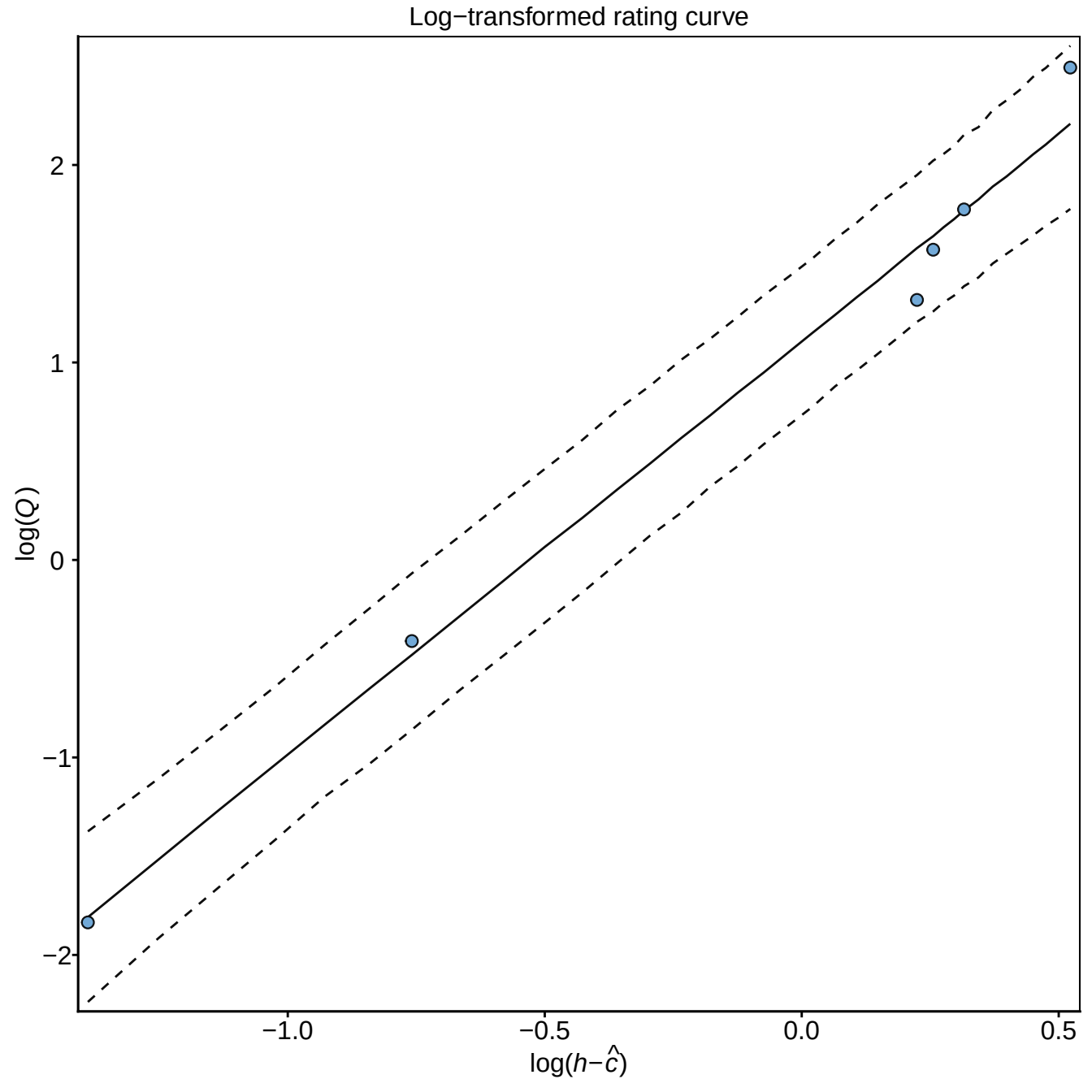

Residuals
0.25
0.00
−0.25
log(Q)−log(Q̂)
−1.0
−0.5
0.0
0.5
log(h − ĉ)

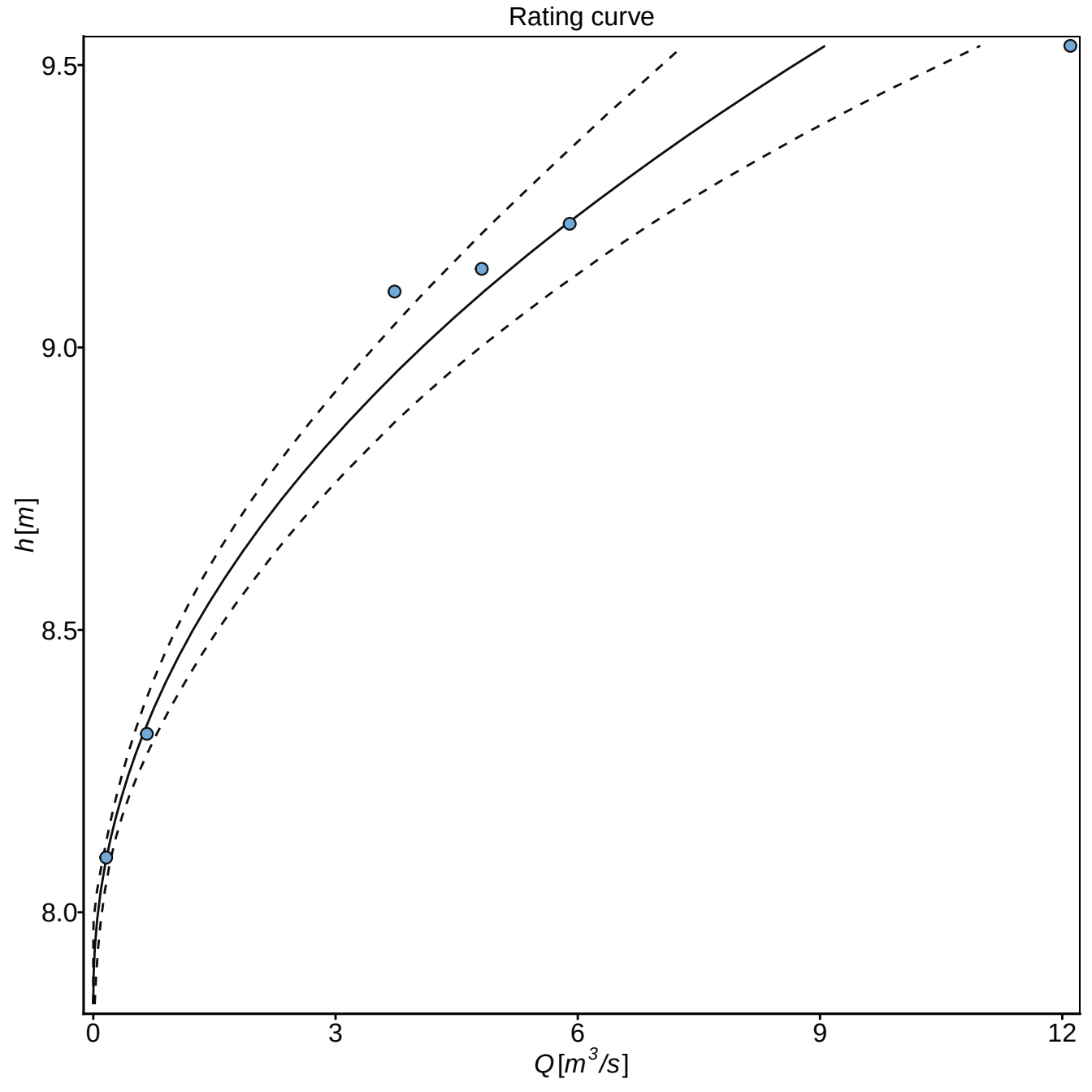

Residuals
0.25
0.00
−0.25
log(Q)−log(Q̂)
−1.0
−0.5
0.0
0.5
log(h − ĉ)

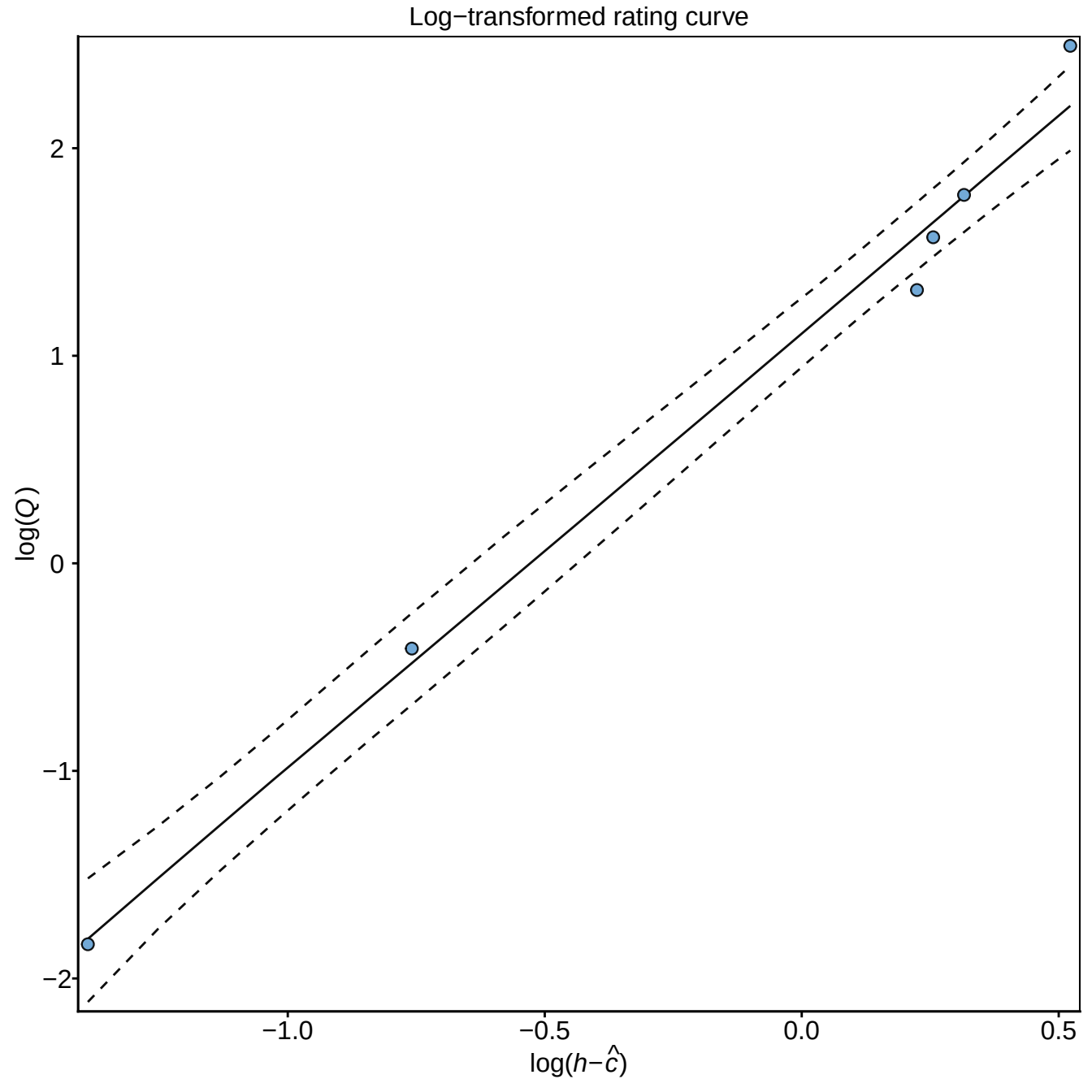

Traceplots
Chain nr 1
Chain nr 2
Chain nr 3
Chain nr 4
a
Iteration
0
1000
2000
3000
1
2
3
4
5
6

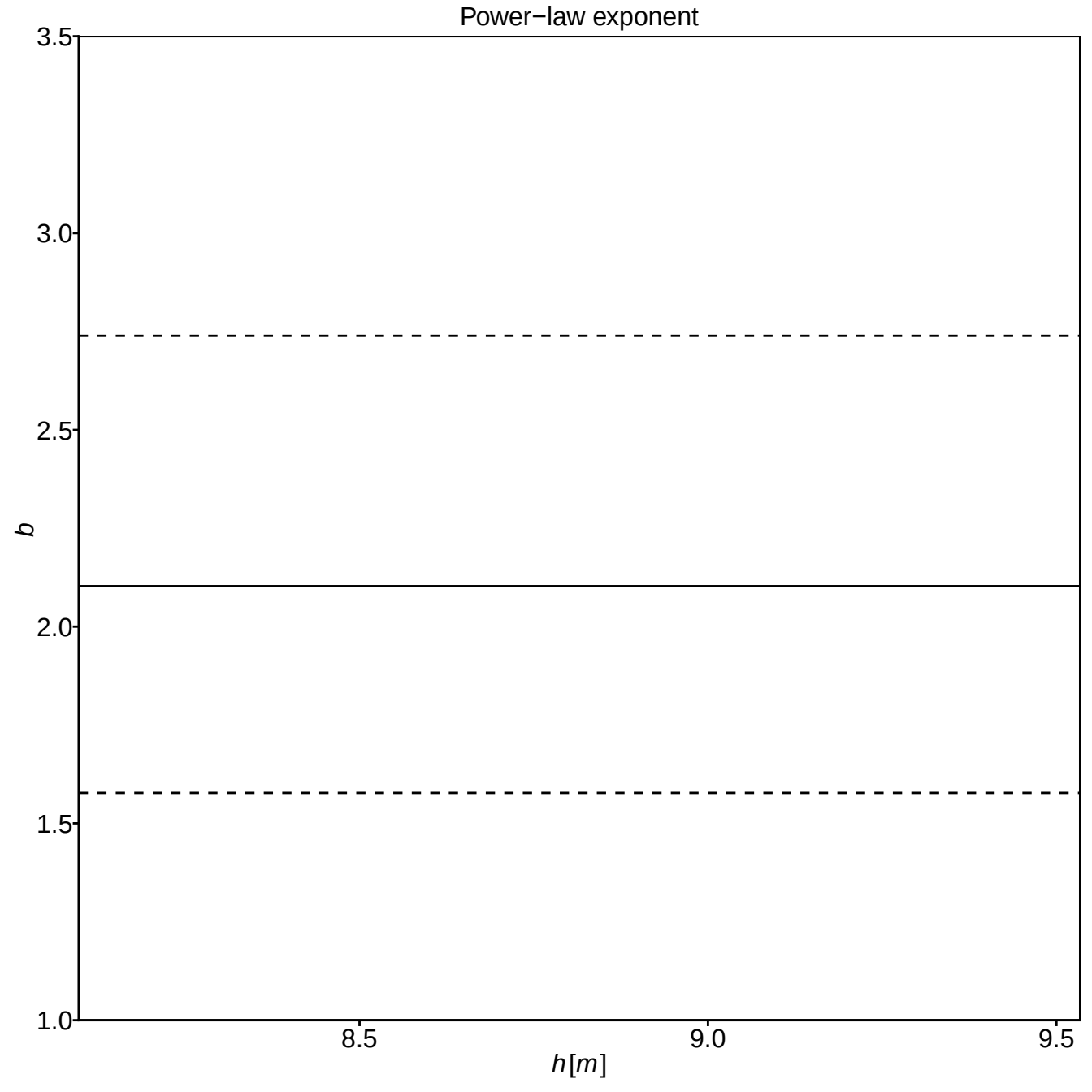

Gelman−Rubin statistic
2.0
1.8
1.6
1.4
1.2
1.1
1.0
$\hat{R}$
5000
10000
15000
Iteration
Autocorrelation in posterior draws
1.00
0.75
0.50
0.25
0.00
Sample autocorrelation
1 5 10 15 20 25 30 35 40 45 50
Lag
duals
plm0
a
b
c
σε
5
0.0
0.5
$\hat{c})$
error terms
9.0
9.5

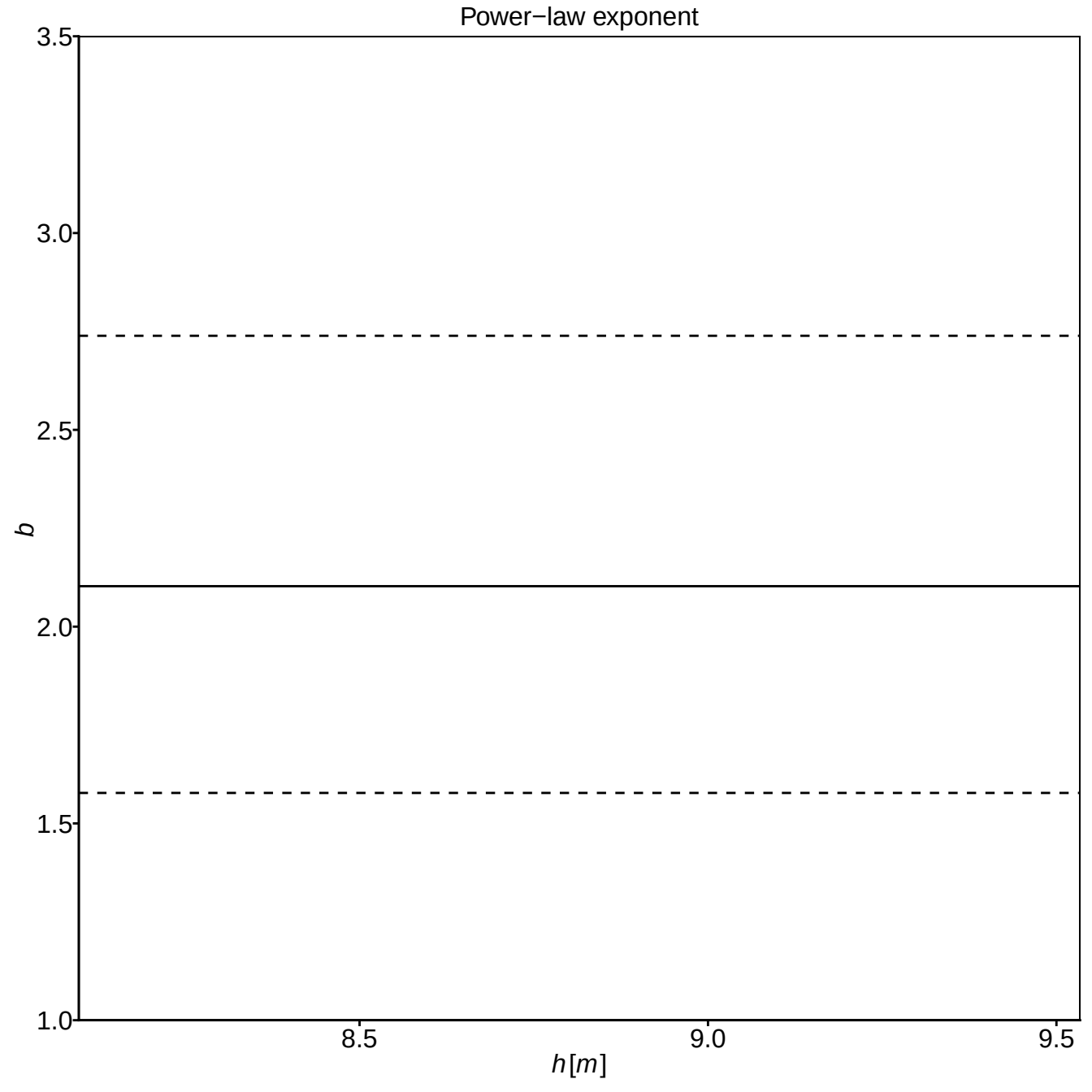

Rating curve
9.5
9.0
8.5
8.0
h [m]
0
5
10
Q [m3/s]

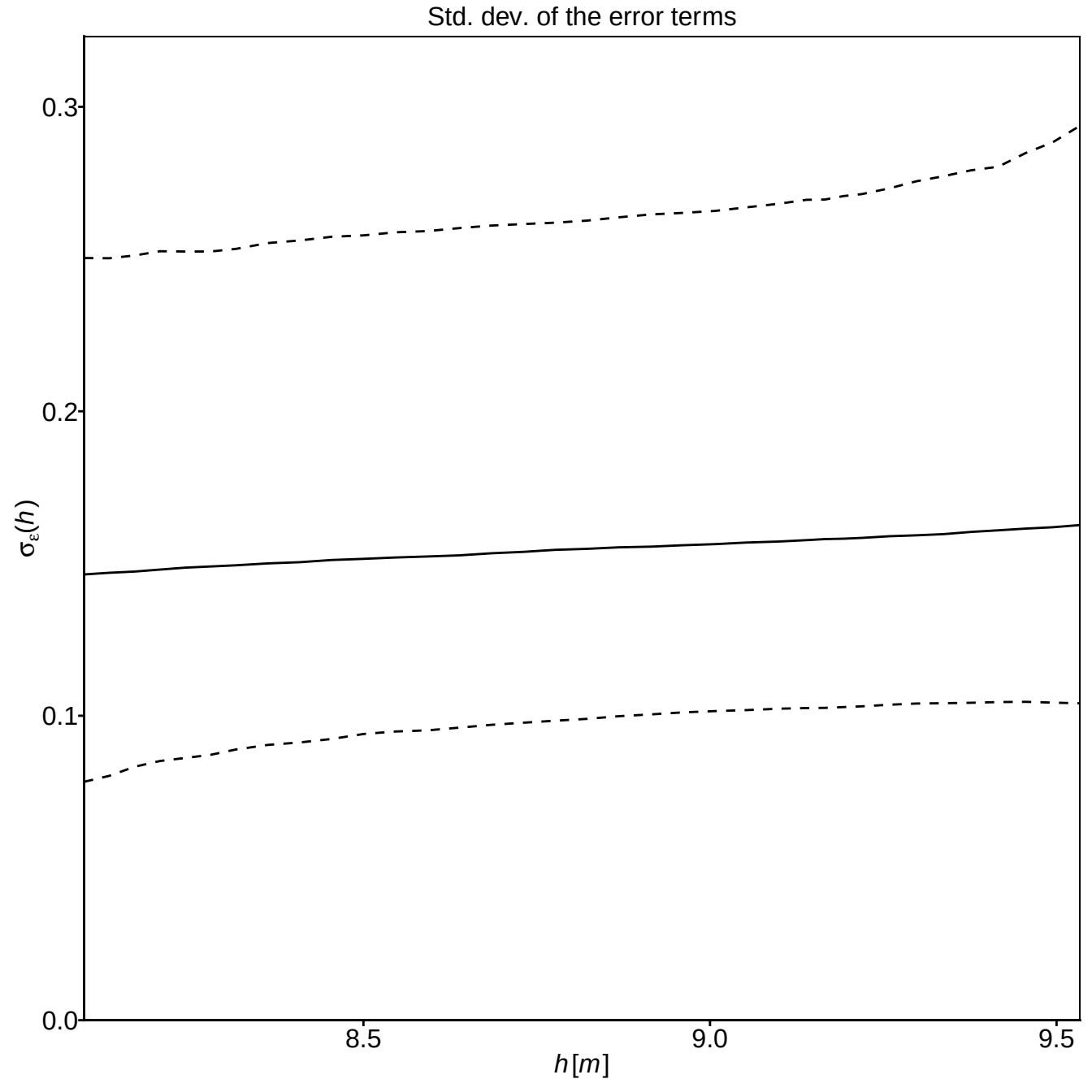

Log−transformed rating curve
2
1
0
−1
−2
log(Q)
−1.0
−0.5
0.0
0.5
log(h−ĉ)

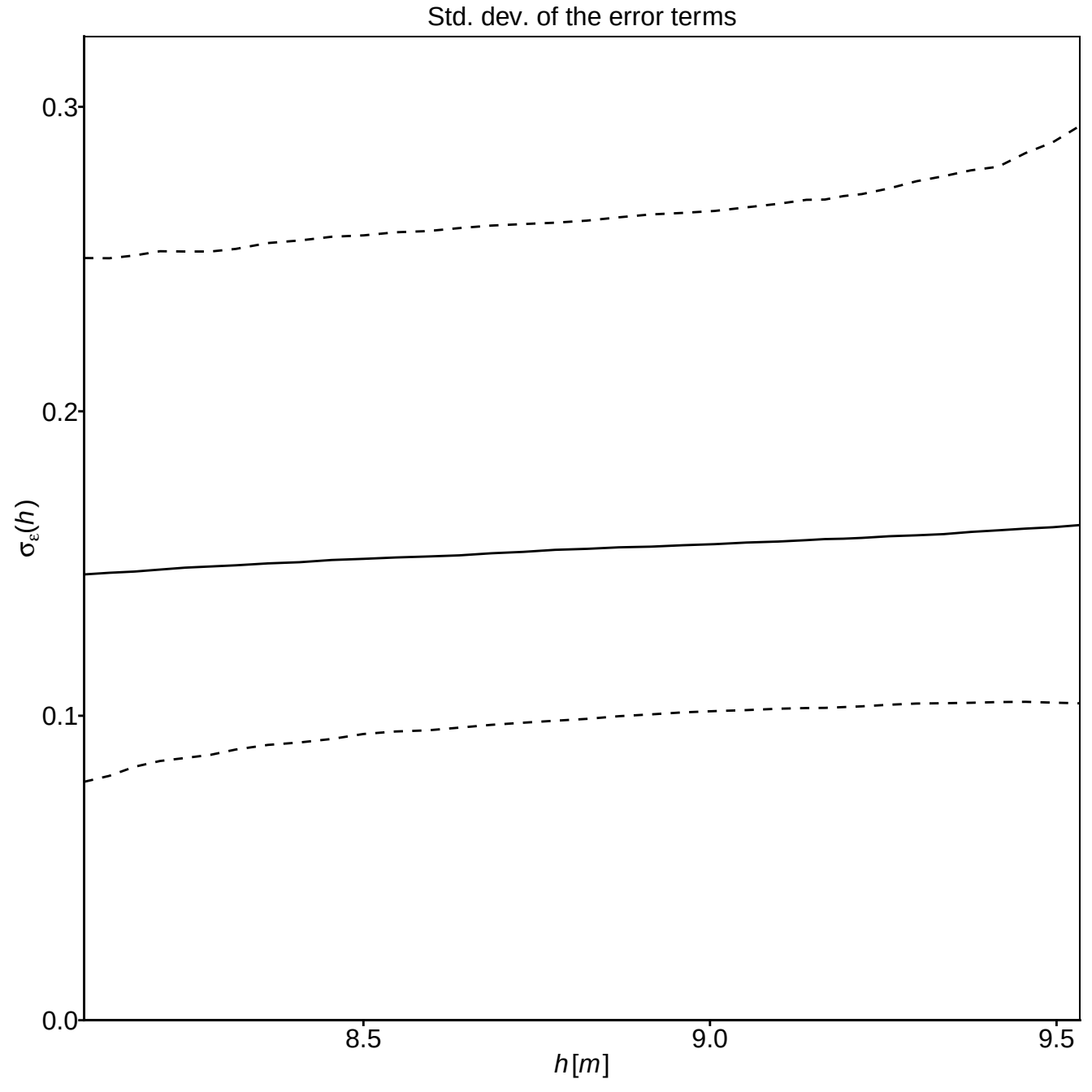

Rating curve
9.5
9.0
8.5
8.0
h [m]
0
3
6
9
12
Q [m³/s]

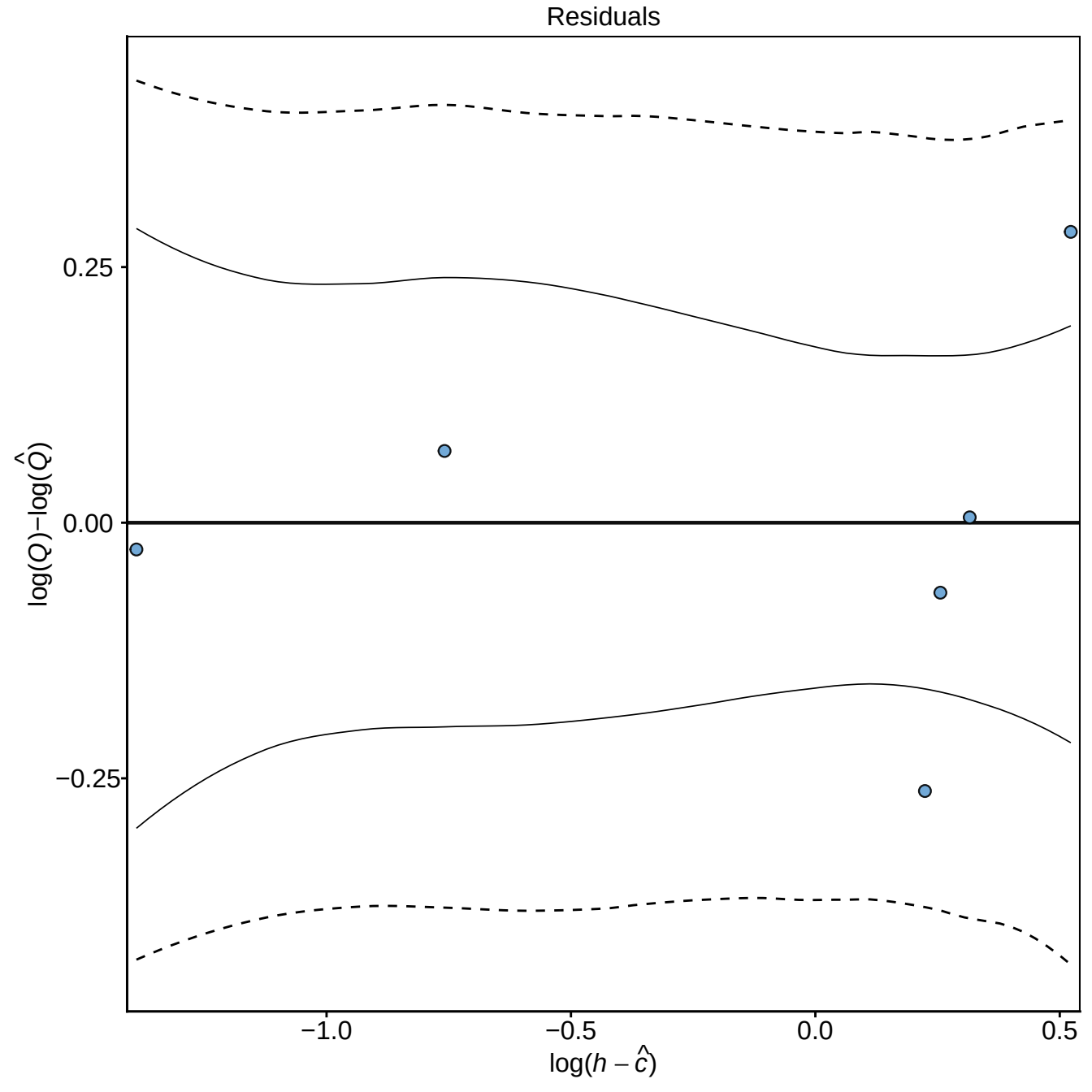

Log−transformed rating curve
log(Q)
2
1
0
−1
−2
−1.0
−0.5
0.0
0.5
log(h−ĉ)

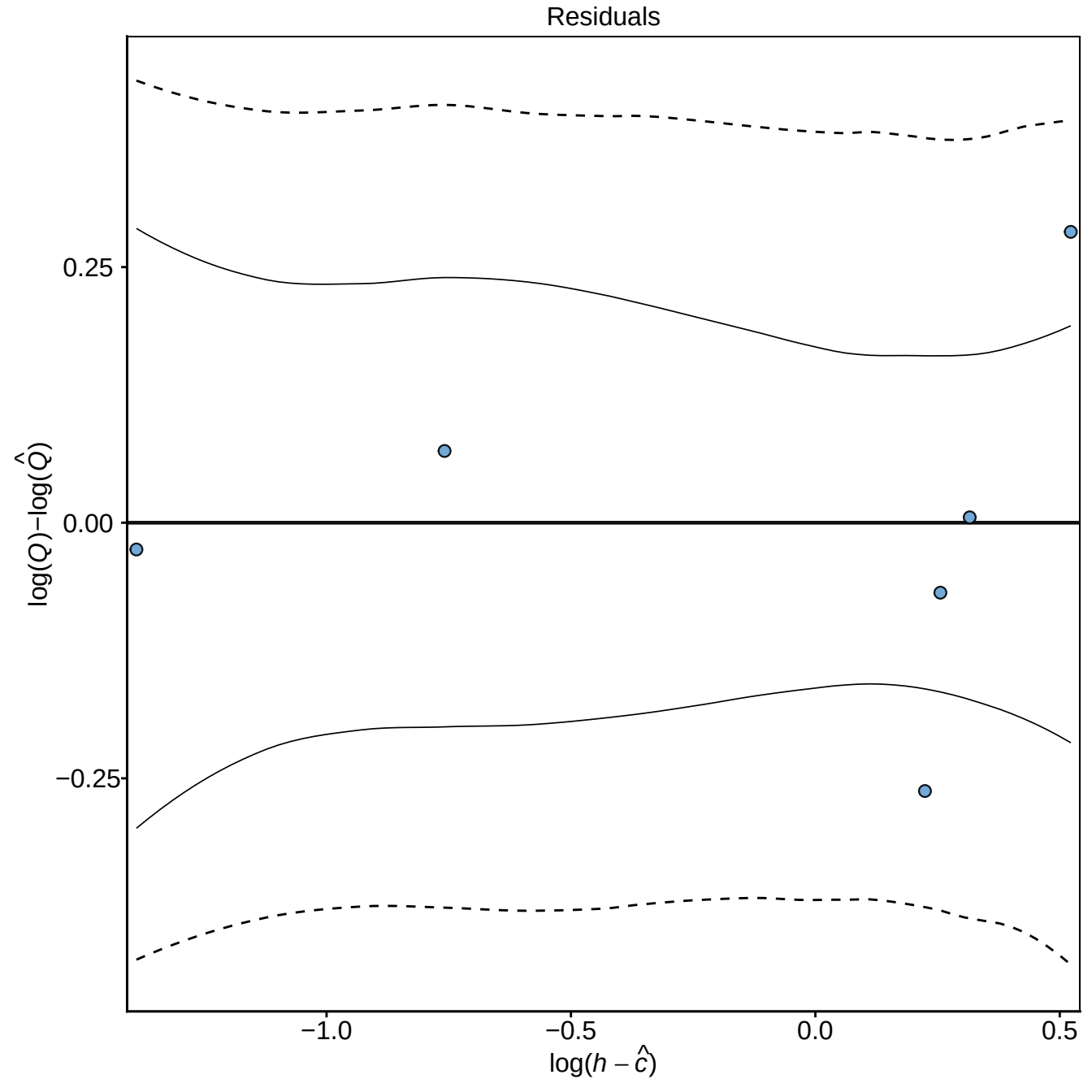

Power−law exponent
3.5
3.0
2.5
2.0
1.5
1.0
b
8.5
9.0
9.5
h[m]

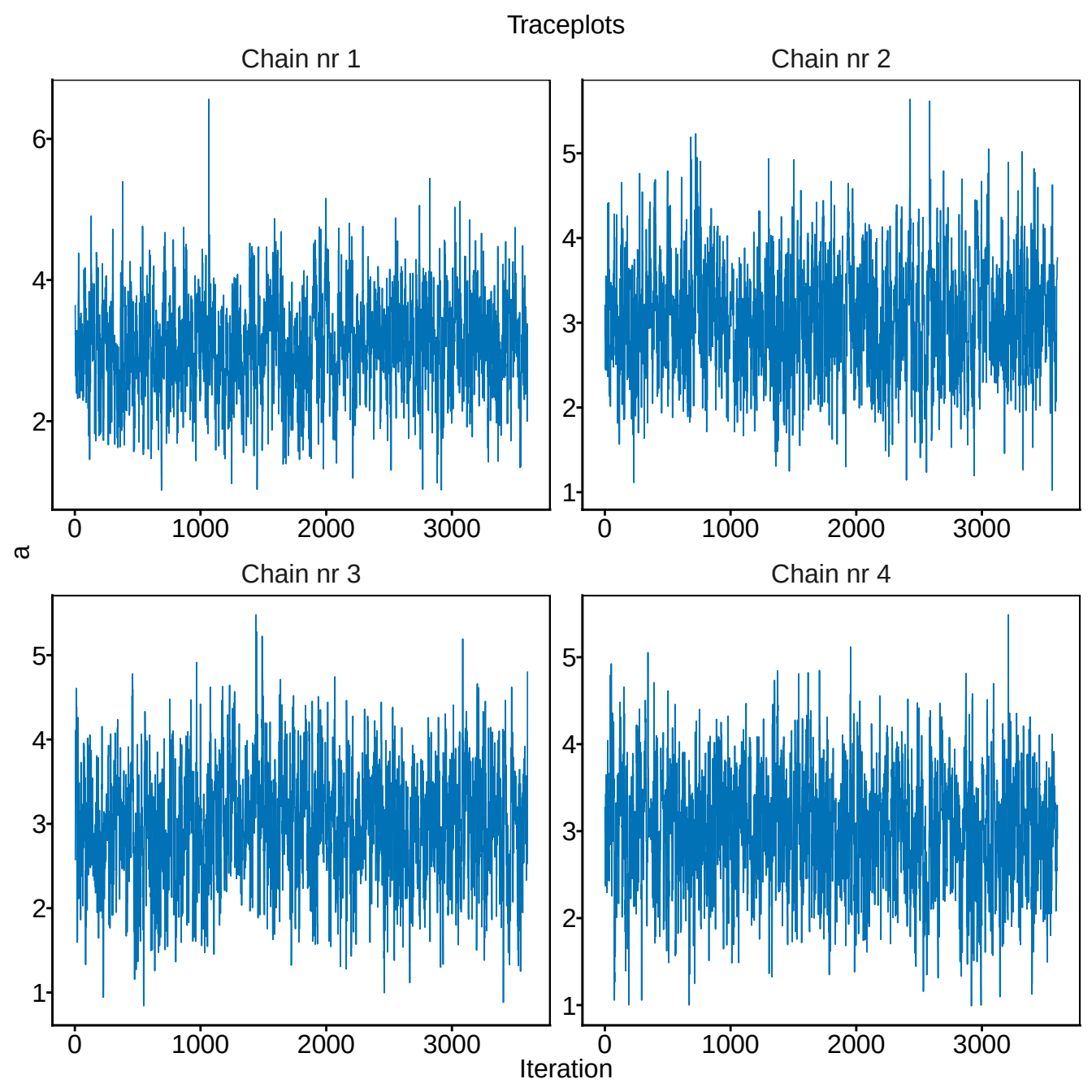

Power−law exponent
3.5
3.0
2.5
2.0
1.5
1.0
b
8.5
9.0
9.5
h[m]

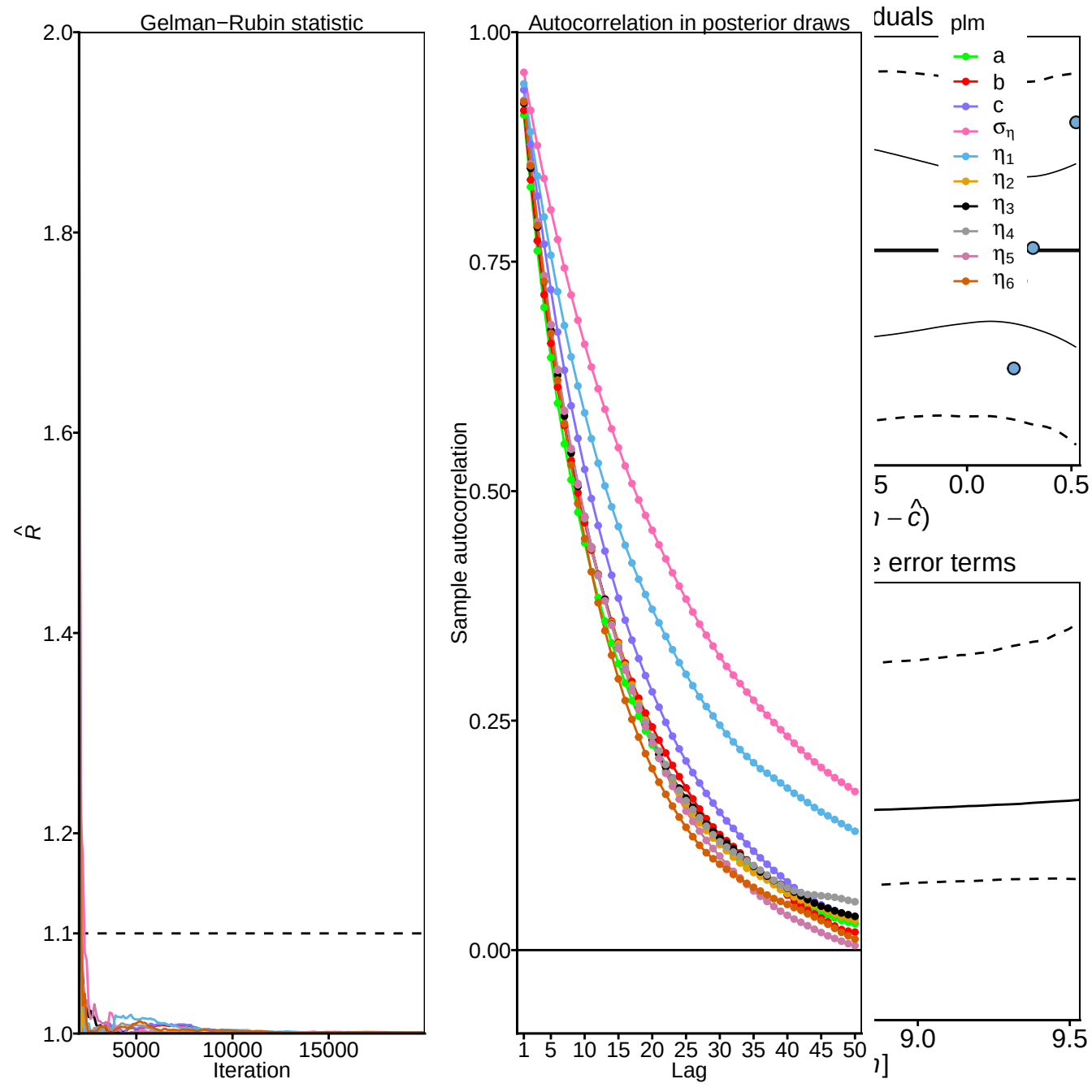

Std. dev. of the error terms
0.3
0.2
0.1
0.0
$\sigma_\varepsilon(h)$
8.5
9.0
9.5
$h\,[m]$

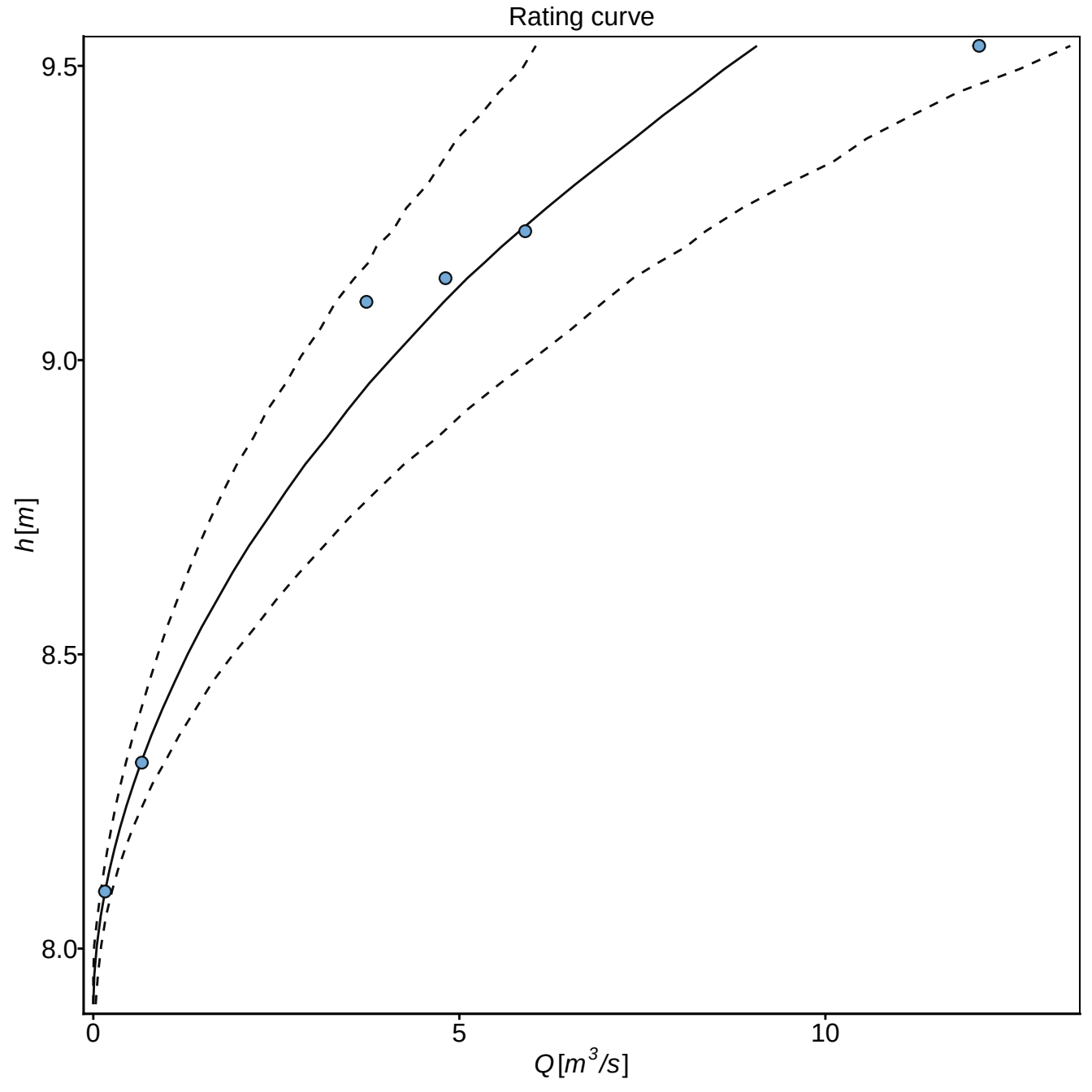

Std. dev. of the error terms
0.3
0.2
0.1
0.0
$\sigma_\varepsilon(h)$
8.5
9.0
9.5
$h\,[m]$

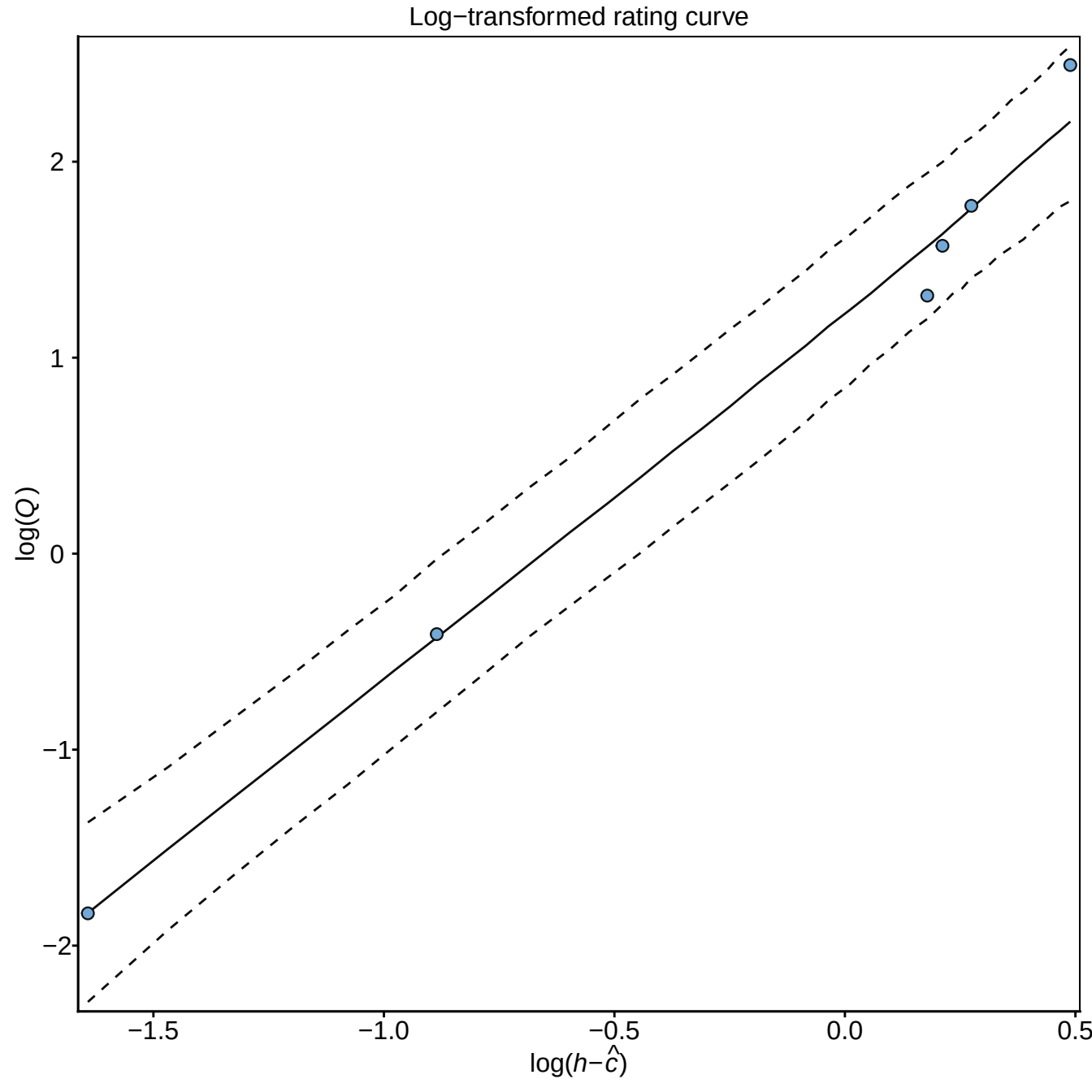

Residuals
0.25
0.00
−0.25
log(Q)−log(Q̂)
−1.0
−0.5
0.0
0.5
log(h − ĉ)

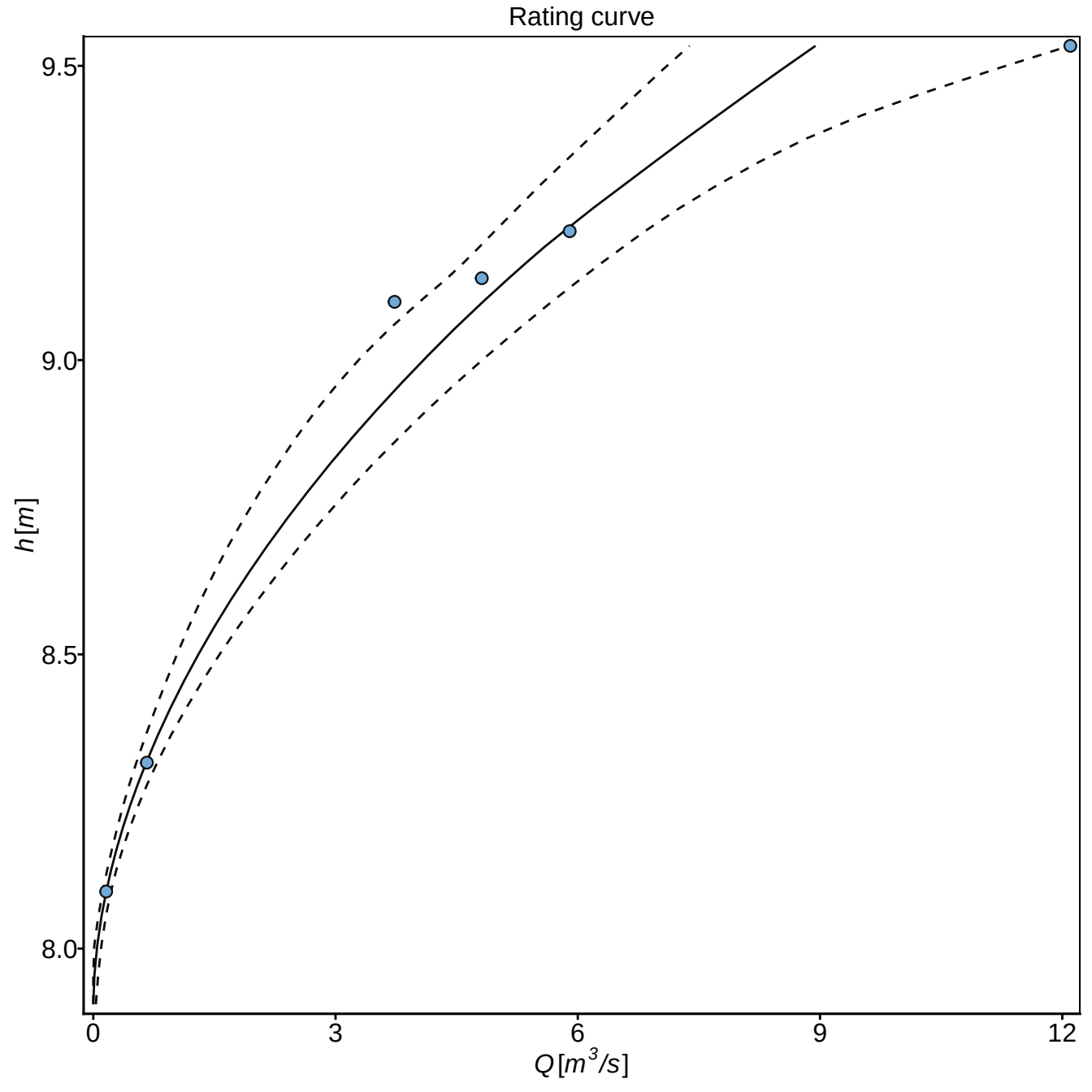

Residuals
0.25
0.00
−0.25
log(Q)−log(Q̂)
−1.0
−0.5
0.0
0.5
log(h − ĉ)

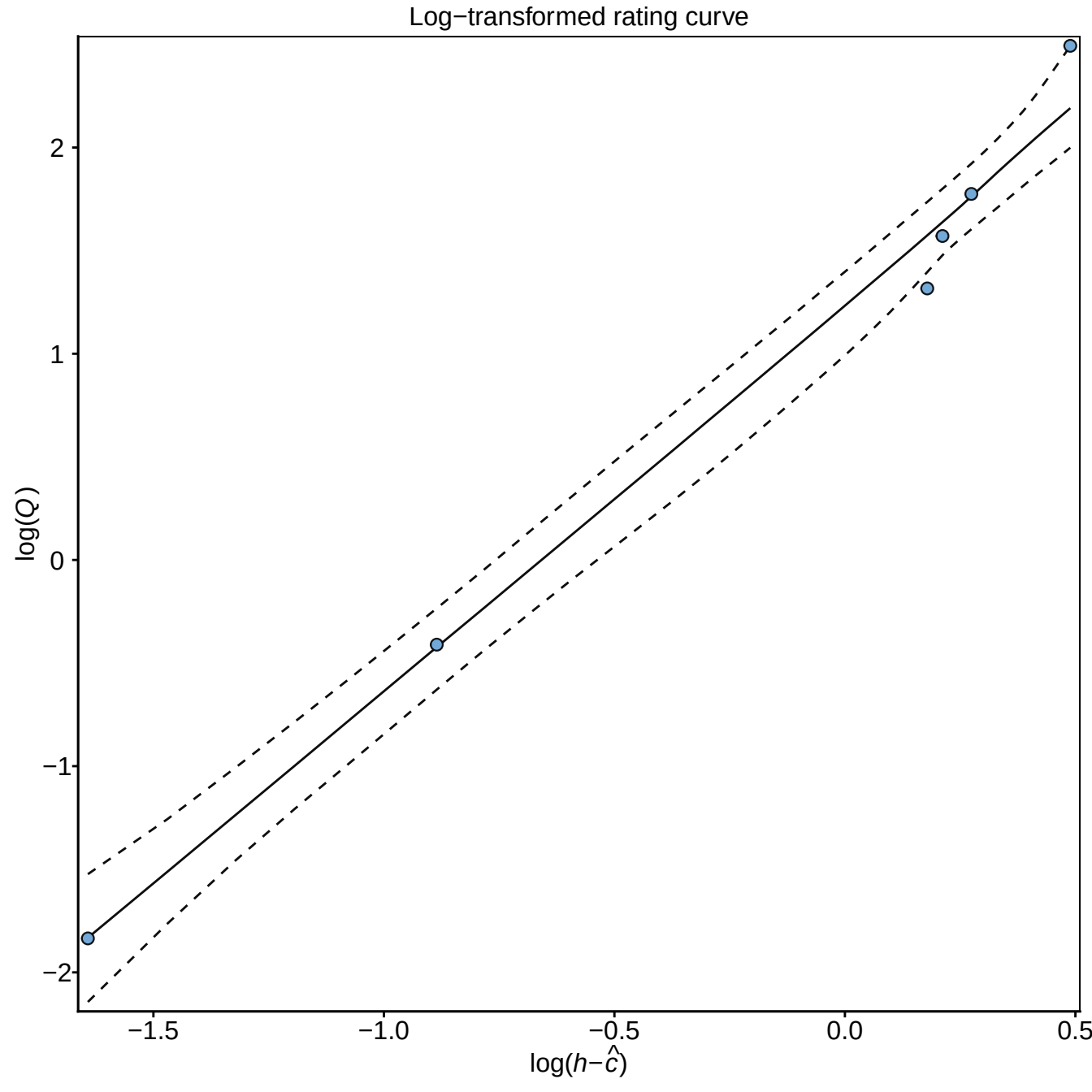

Traceplots
Chain nr 1
Chain nr 2
Chain nr 3
Chain nr 4
a
Iteration
0
1000
2000
3000
1
2
3
4
5
6

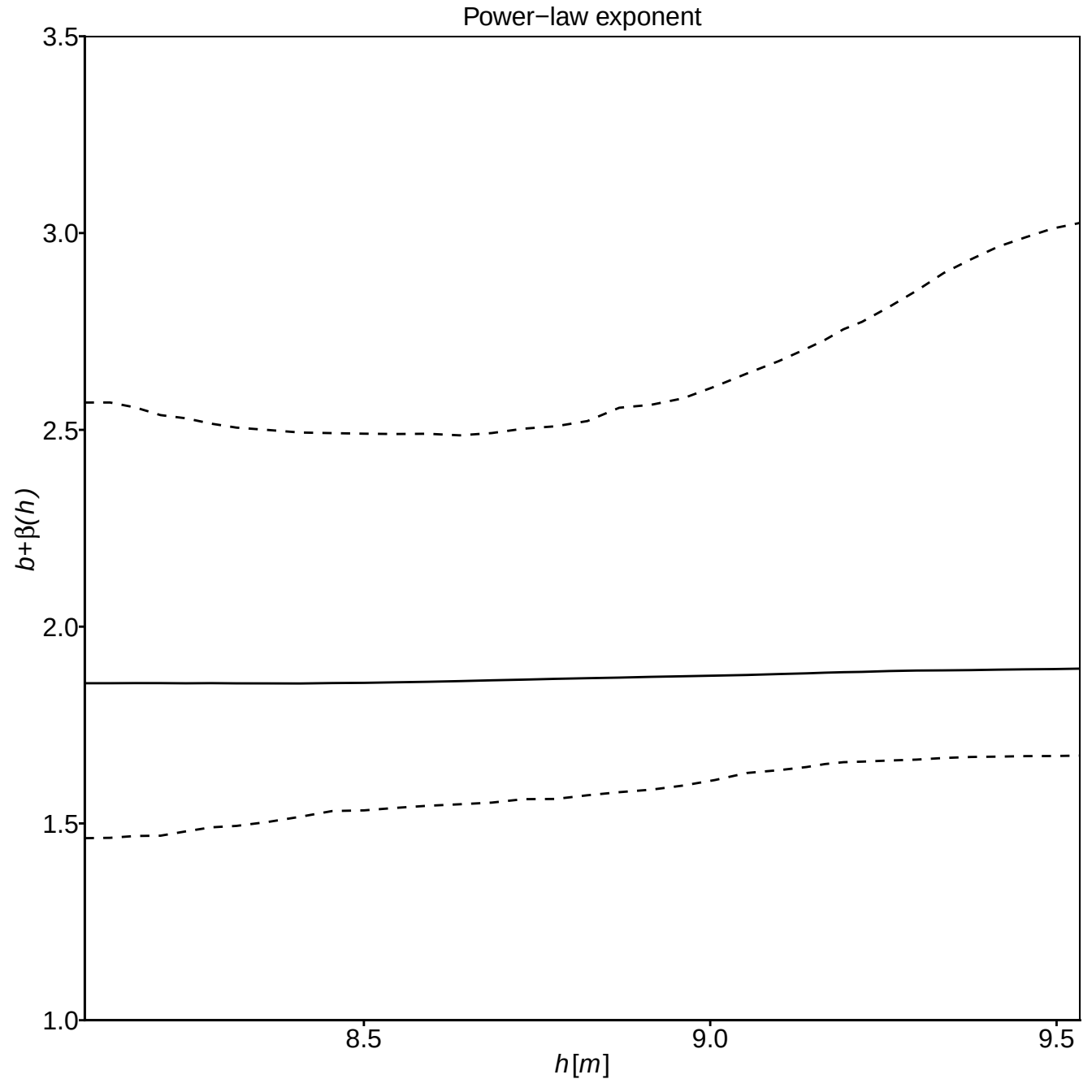

Gelman−Rubin statistic
2.0
1.8
1.6
1.4
1.2
1.1
1.0
$\hat{R}$
5000
10000
15000
Iteration
Autocorrelation in posterior draws
1.00
0.75
0.50
0.25
0.00
Sample autocorrelation
1
5
10
15
20
25
30
35
40
45
50
Lag
duals
plm
a
b
c
σ_η
η_1
η_2
η_3
η_4
η_5
η_6
5
0.0
0.5
$\eta - \hat{c}$)
e error terms
9.0
9.5
η]

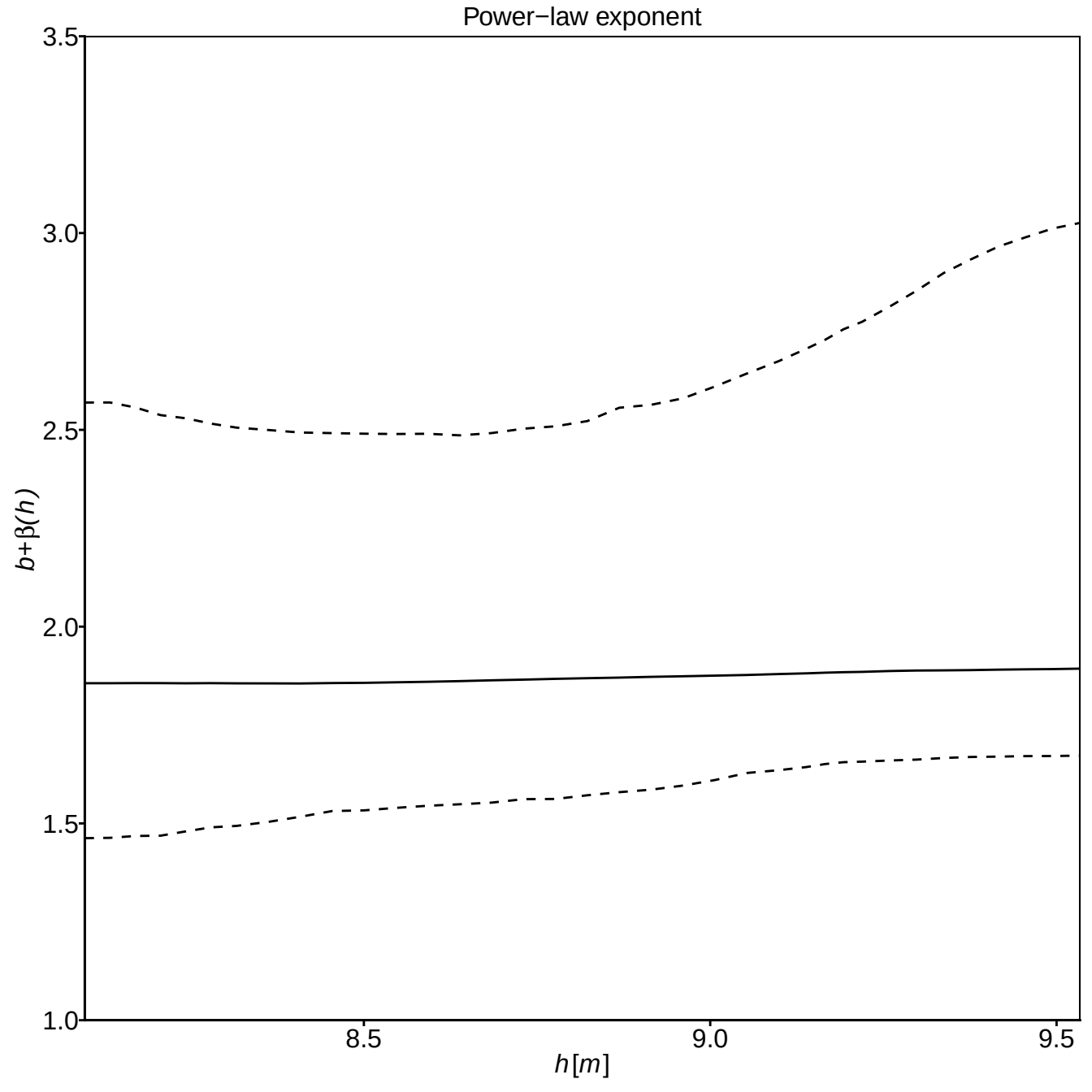

Rating curve
9.5
9.0
8.5
8.0
h [m]
0
5
10
Q [m3/s]

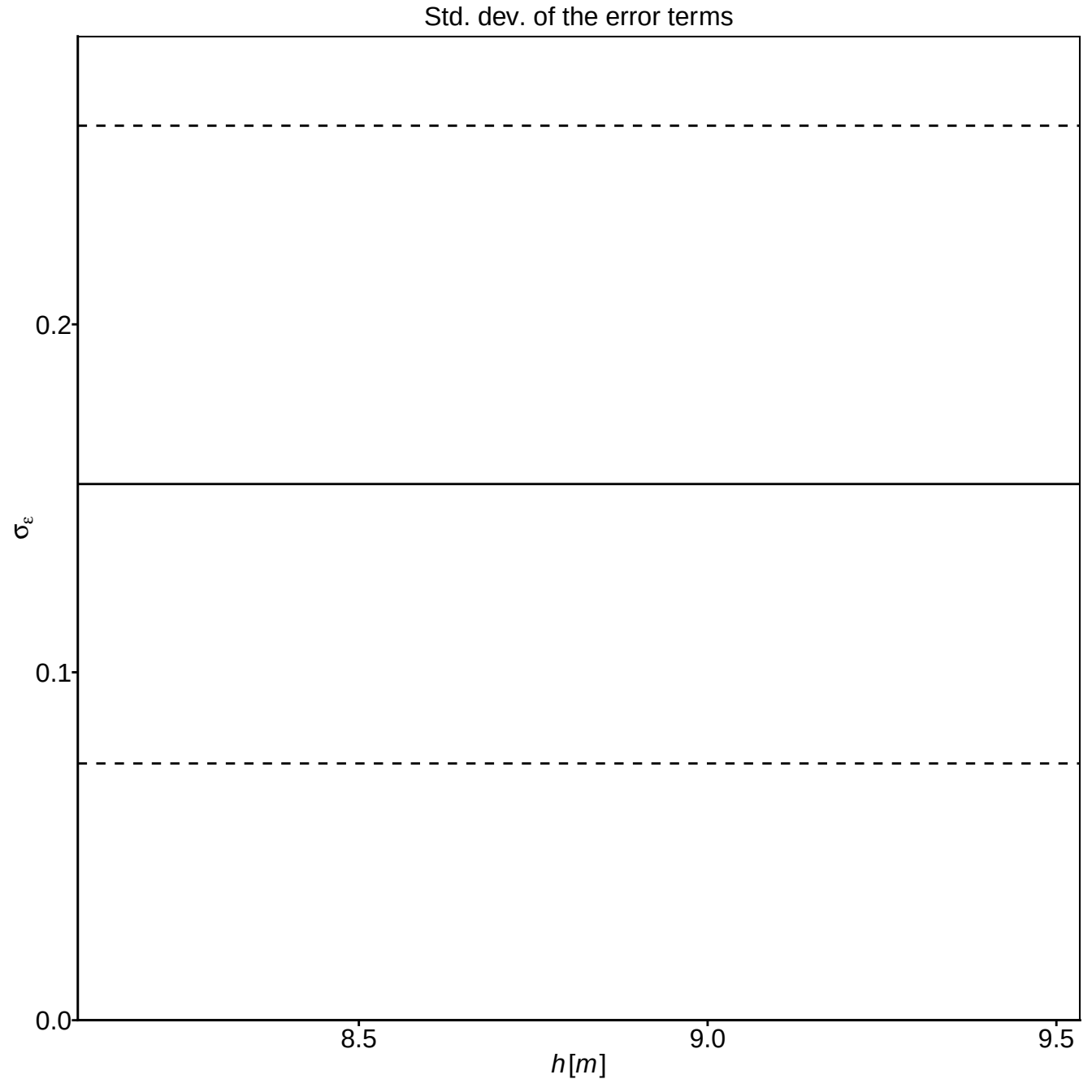

Log−transformed rating curve
log(Q)
log(h−ĉ)
2
1
0
−1
−2
−1.5
−1.0
−0.5
0.0
0.5

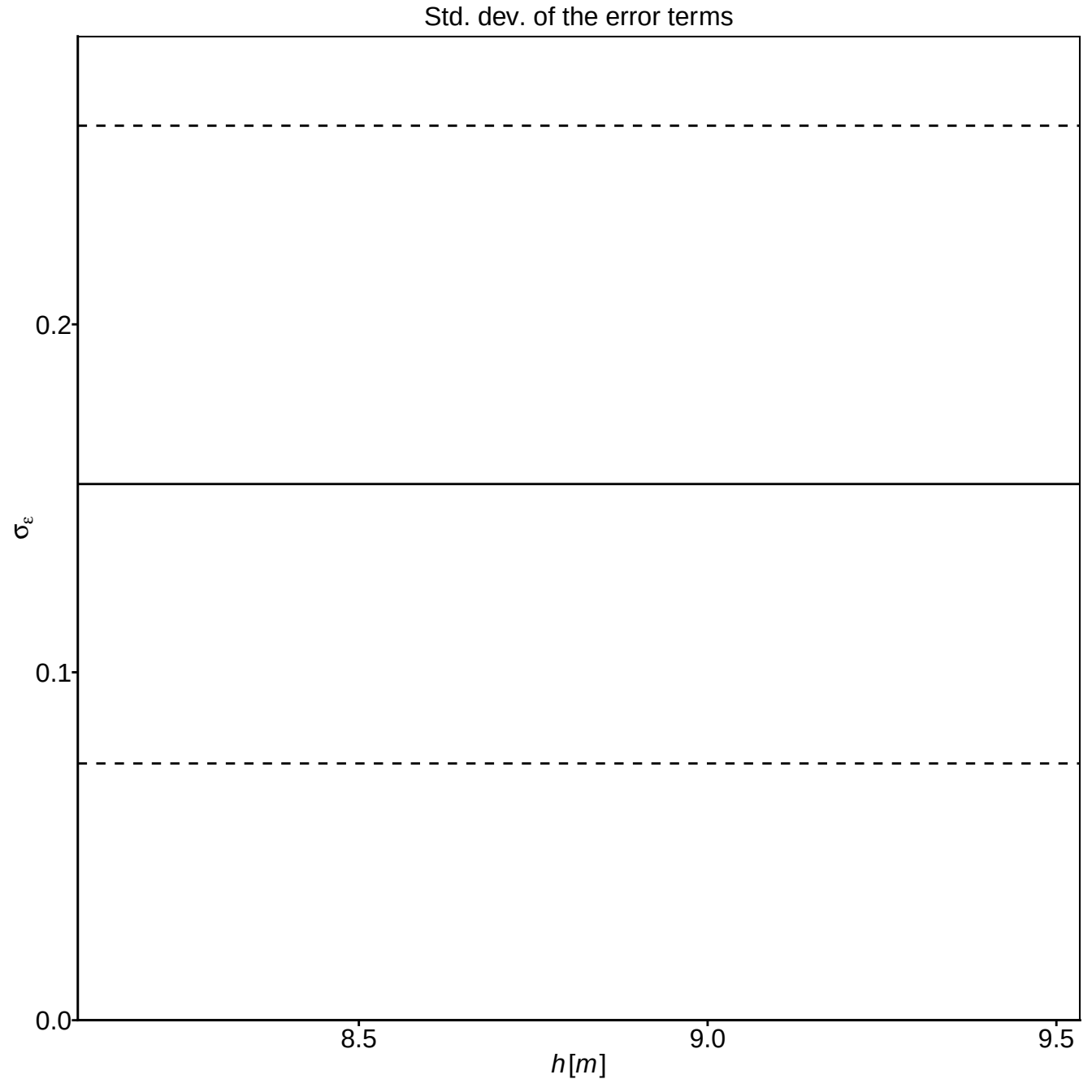

Rating curve
9.5
9.0
8.5
8.0
h [m]
0
3
6
9
12
Q [m³/s]

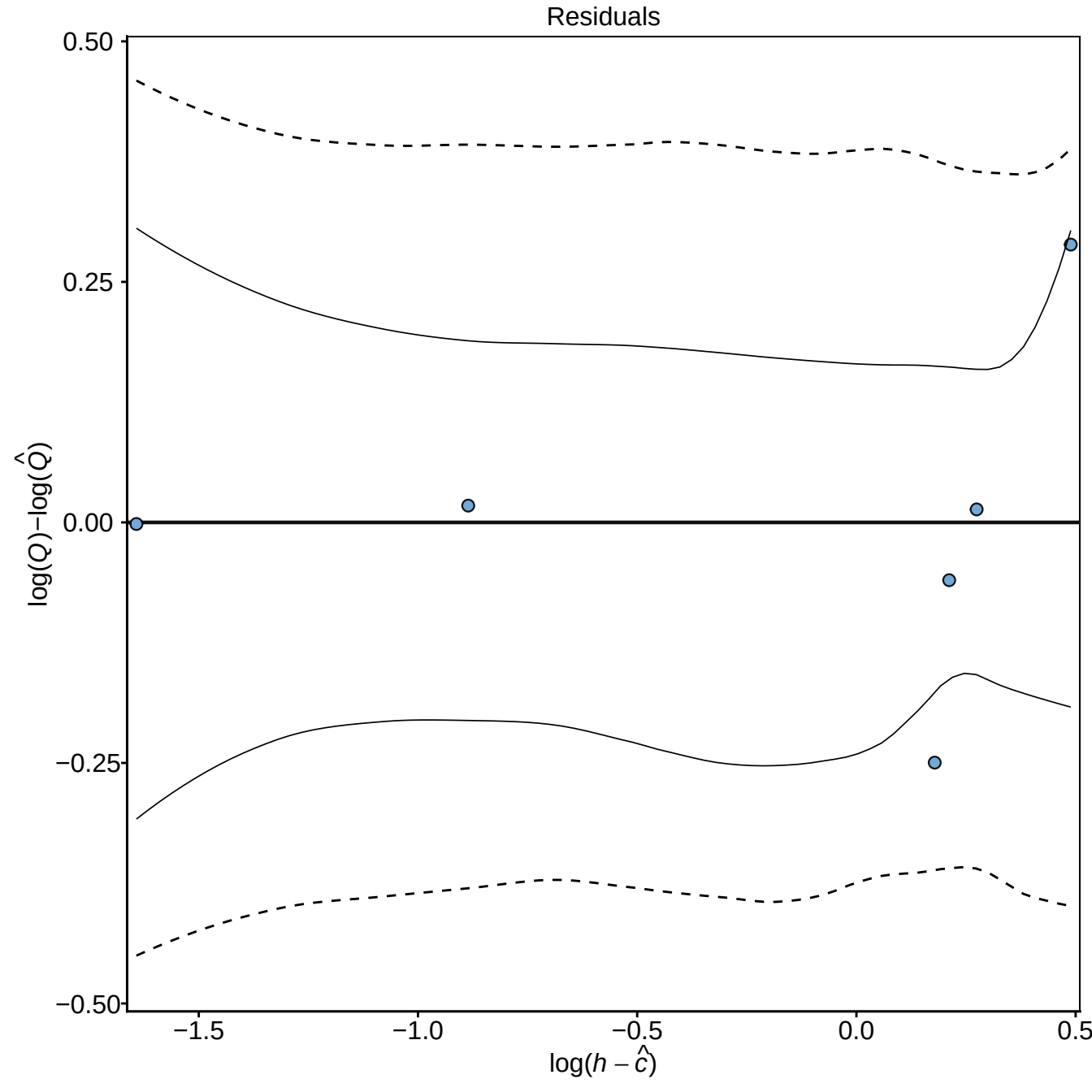

Log−transformed rating curve
log(Q)
log(h−ĉ)
2
1
0
−1
−2
−1.5
−1.0
−0.5
0.0
0.5

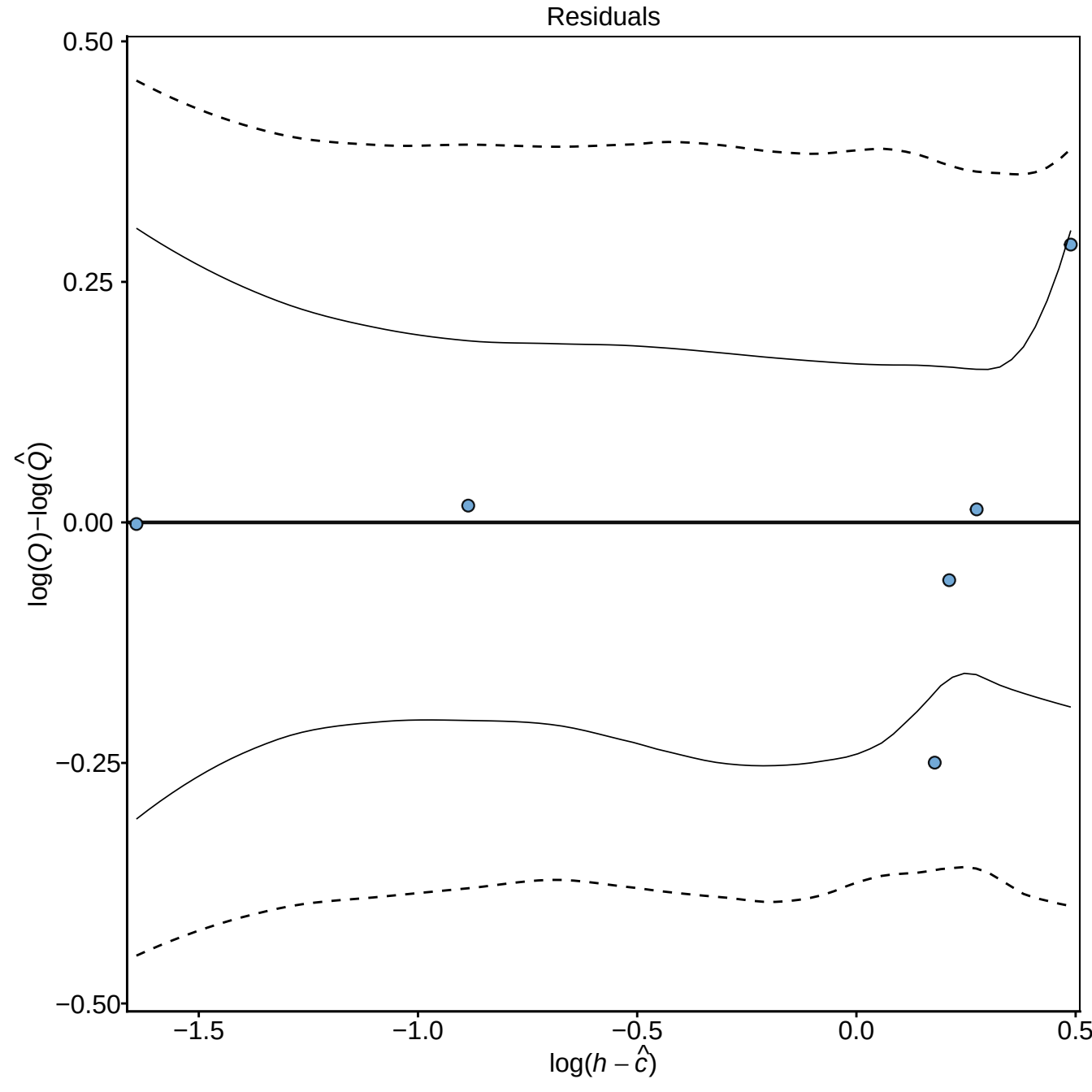

Power−law exponent
3.5
3.0
2.5
2.0
1.5
1.0
b+β(h)
8.5
9.0
9.5
h[m]

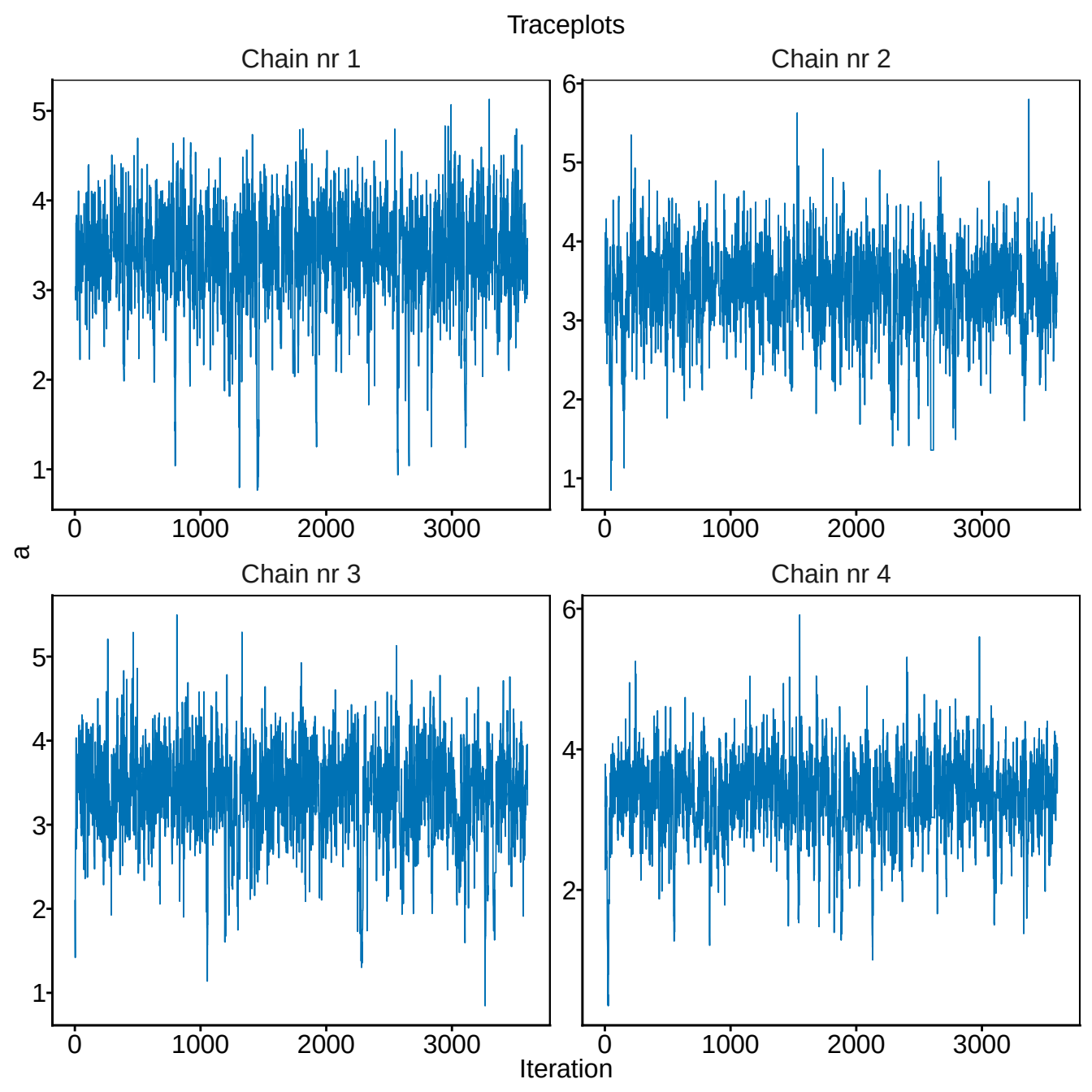

Power−law exponent
3.5
3.0
2.5
2.0
1.5
1.0
b+β(h)
8.5
9.0
9.5
h[m]

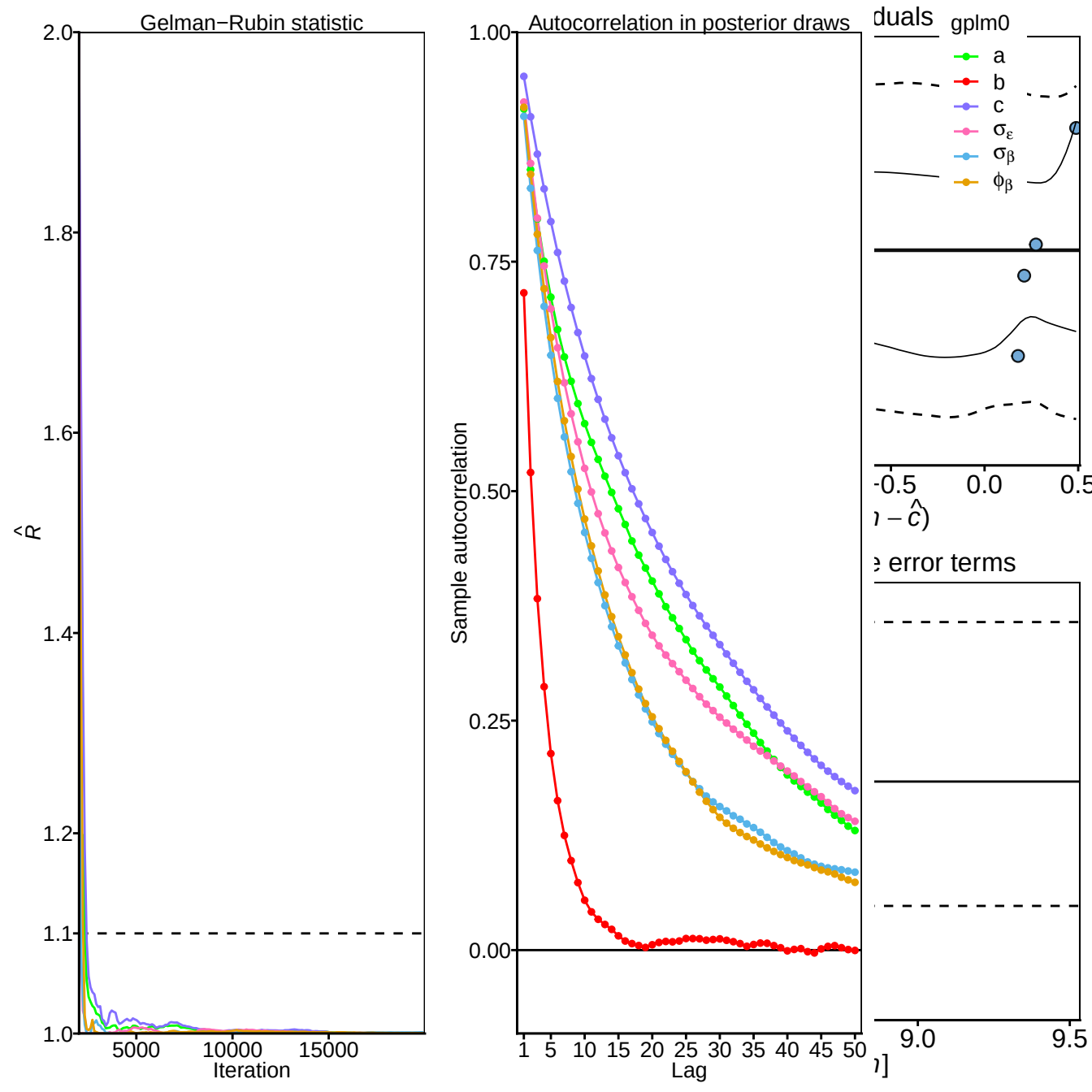

Std. dev. of the error terms
0.2
0.1
0.0
σ_ε
8.5
9.0
9.5
$h[m]$

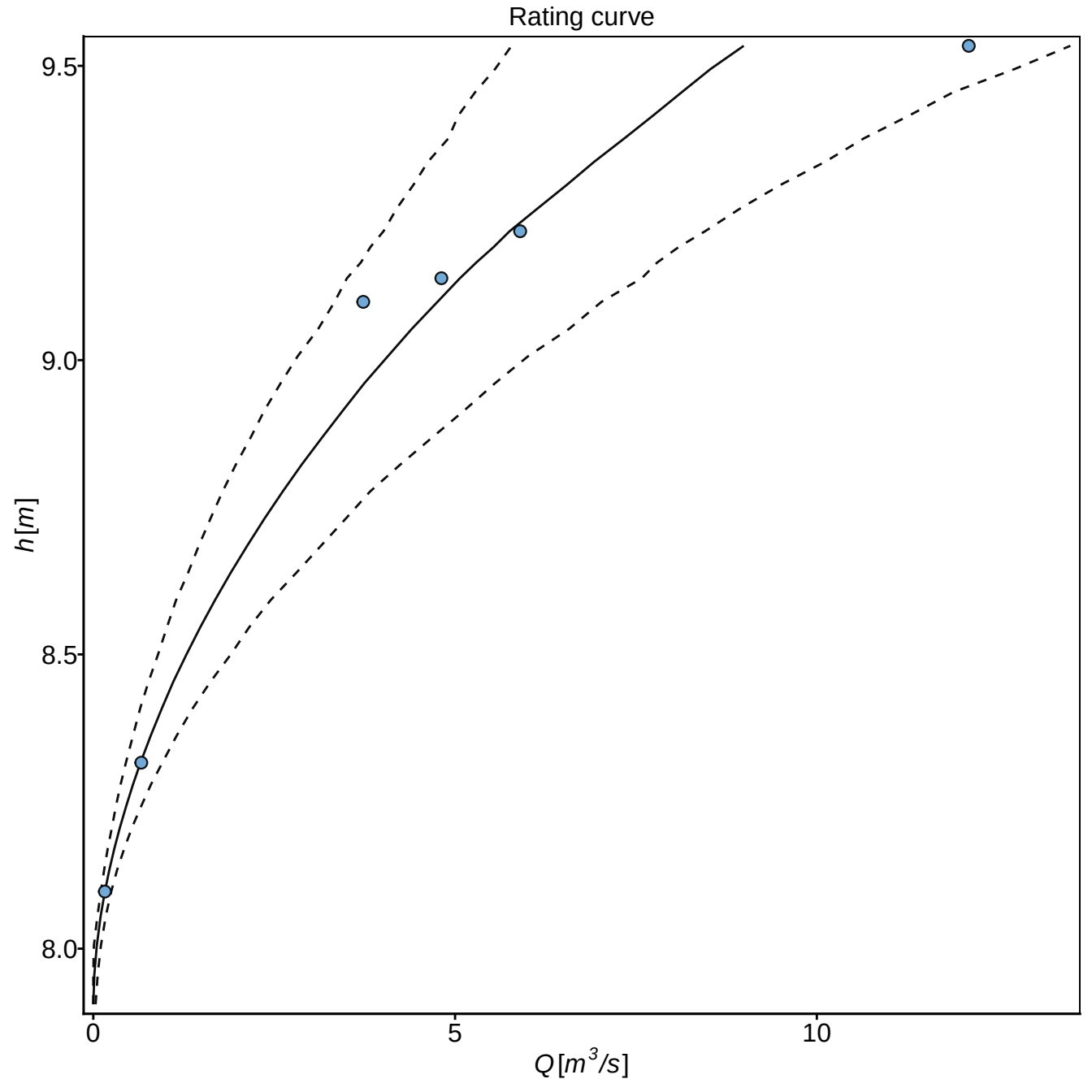

Std. dev. of the error terms
0.2
0.1
0.0
σ_ε
8.5
9.0
9.5
$h[m]$

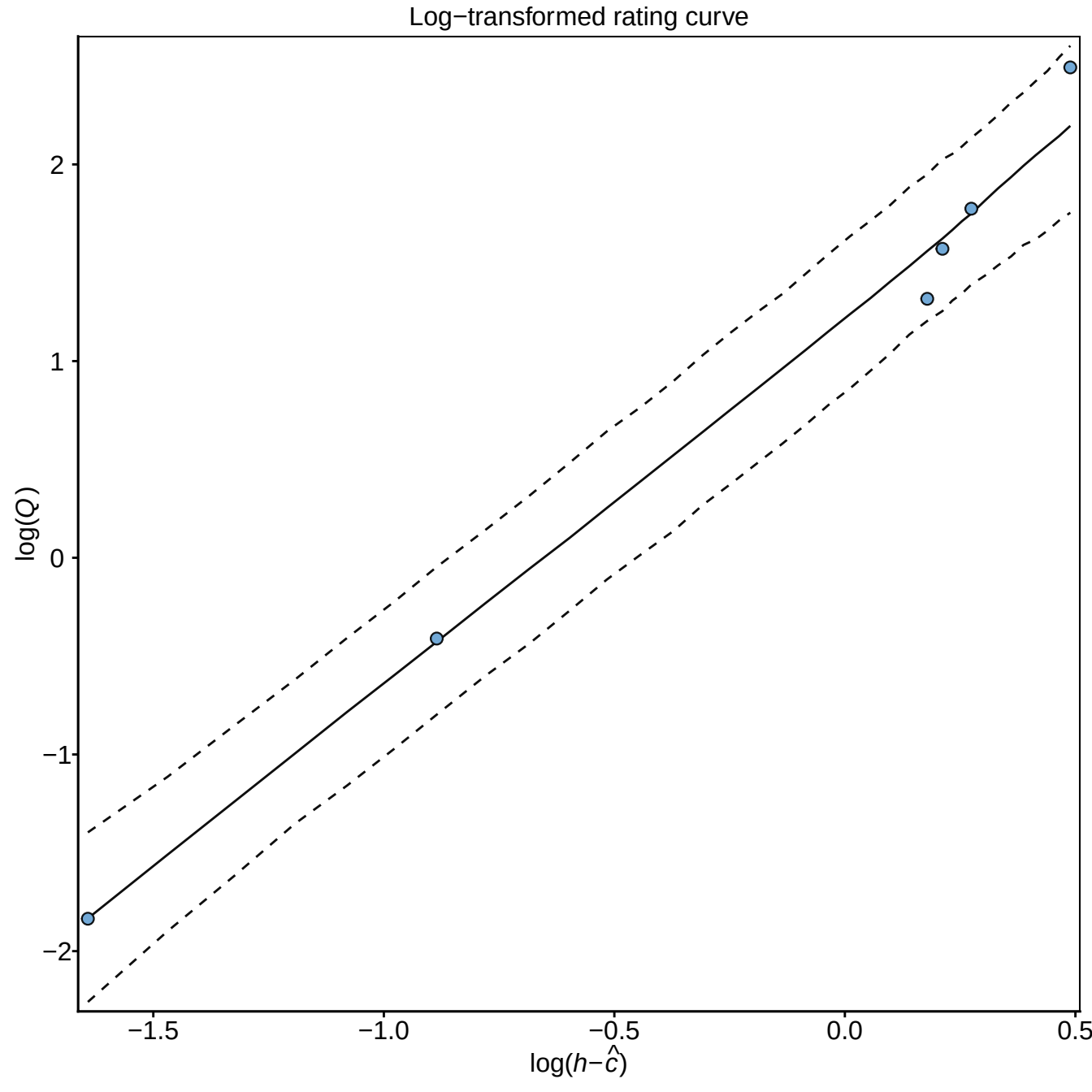

Residuals
0.50
0.25
0.00
−0.25
−0.50
log(Q)−log(Q̂)
−1.5
−1.0
−0.5
0.0
0.5
log(h − ĉ)

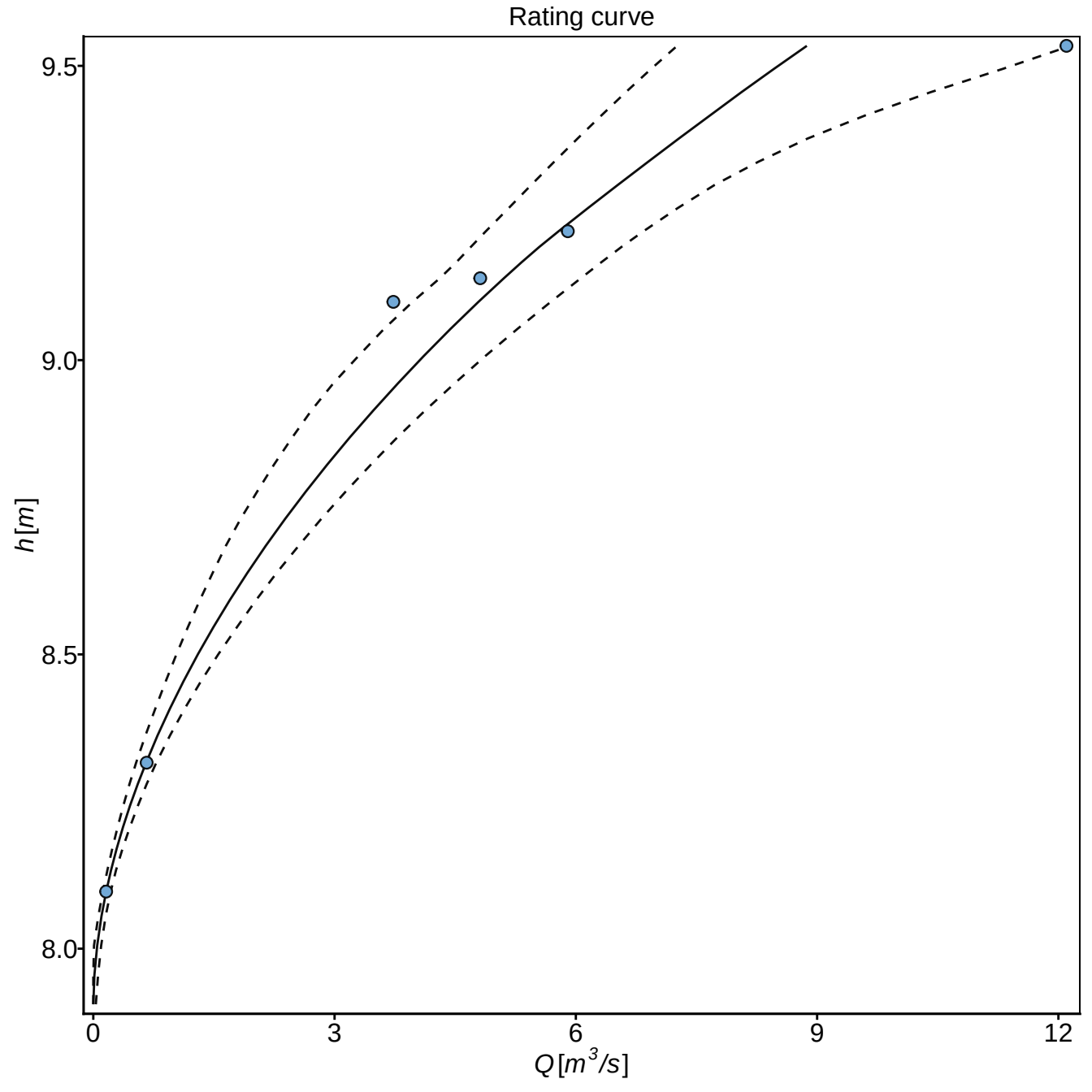

Residuals
0.50
0.25
0.00
−0.25
−0.50
log(Q)−log(Q̂)
−1.5
−1.0
−0.5
0.0
0.5
log(h − ĉ)

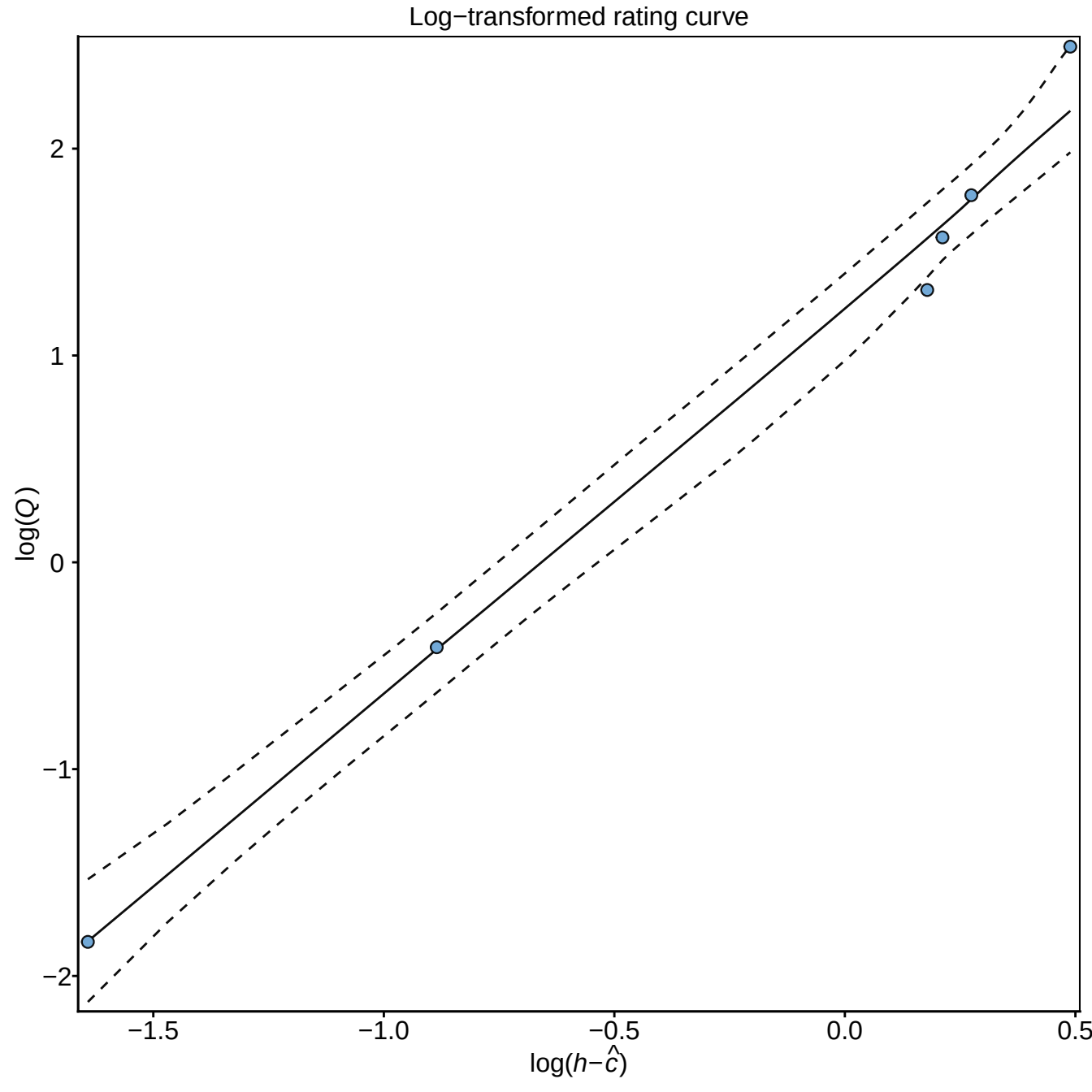

Traceplots
Chain nr 1
Chain nr 2
Chain nr 3
Chain nr 4
a
Iteration
0
1000
2000
3000
1
2
3
4
5
6

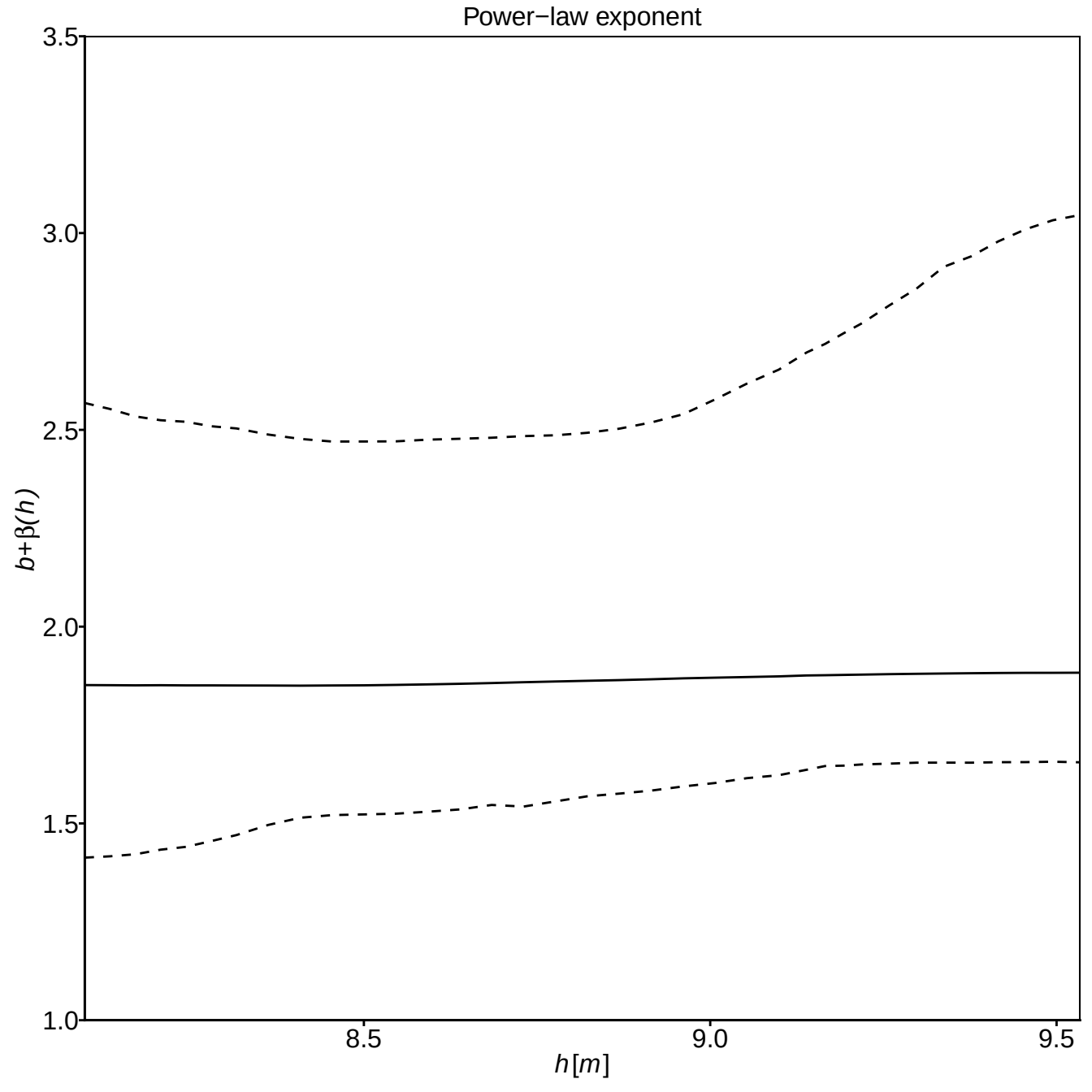

Gelman−Rubin statistic
2.0
1.8
1.6
1.4
1.2
1.1
1.0
$\hat{R}$
5000
10000
15000
Iteration
Autocorrelation in posterior draws
1.00
0.75
0.50
0.25
0.00
Sample autocorrelation
1
5
10
15
20
25
30
35
40
45
50
Lag
duals
gplm0
a
b
c
σ_ε
σ_β
ϕ_β
-0.5
0.0
0.5
$\hat{c}$)
error terms
9.0
9.5

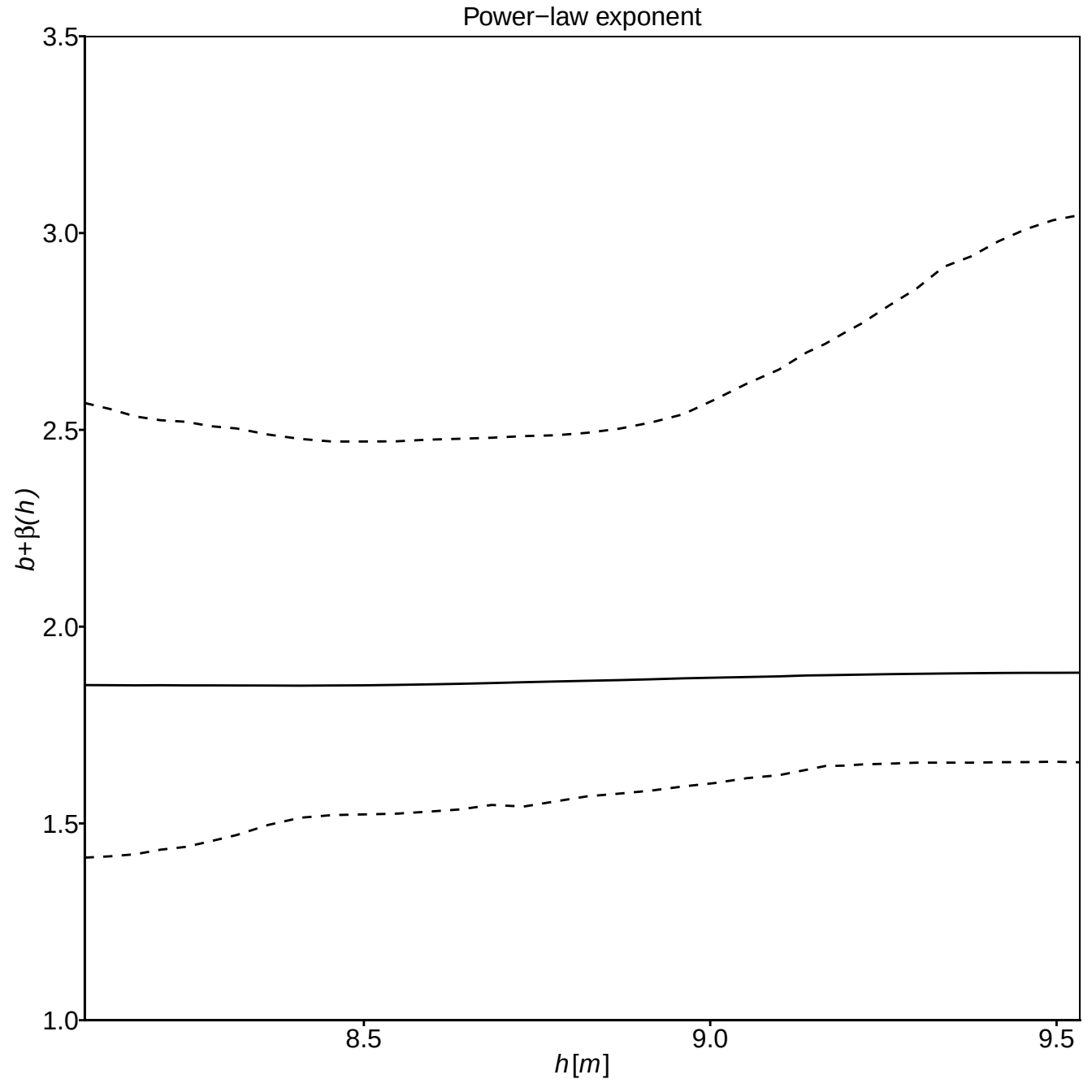

Rating curve
9.5
9.0
8.5
8.0
h [m]
0
5
10
Q [m³/s]

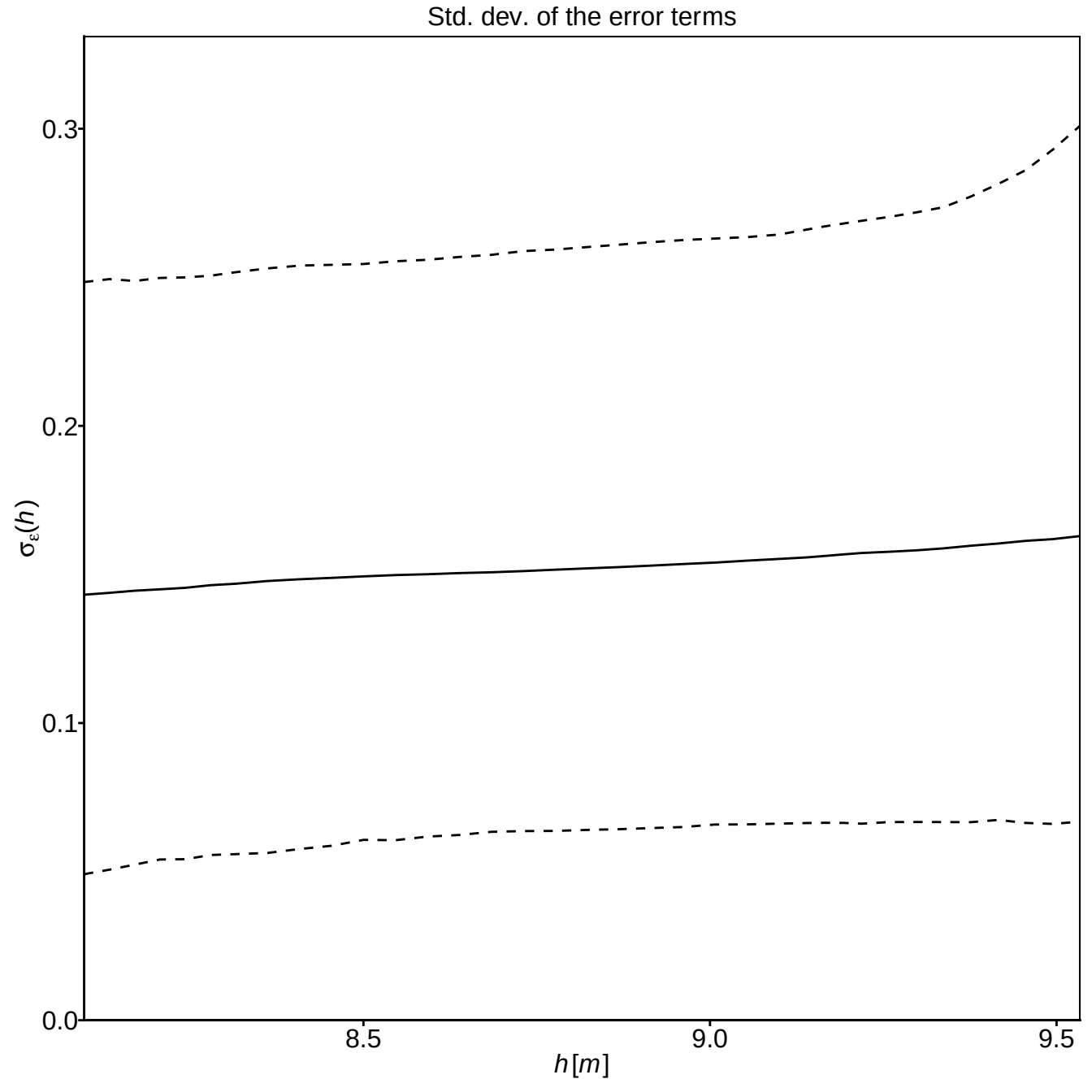

Log−transformed rating curve
log(Q)
2
1
0
−1
−2
−1.5
−1.0
−0.5
0.0
0.5
log(h−ĉ)

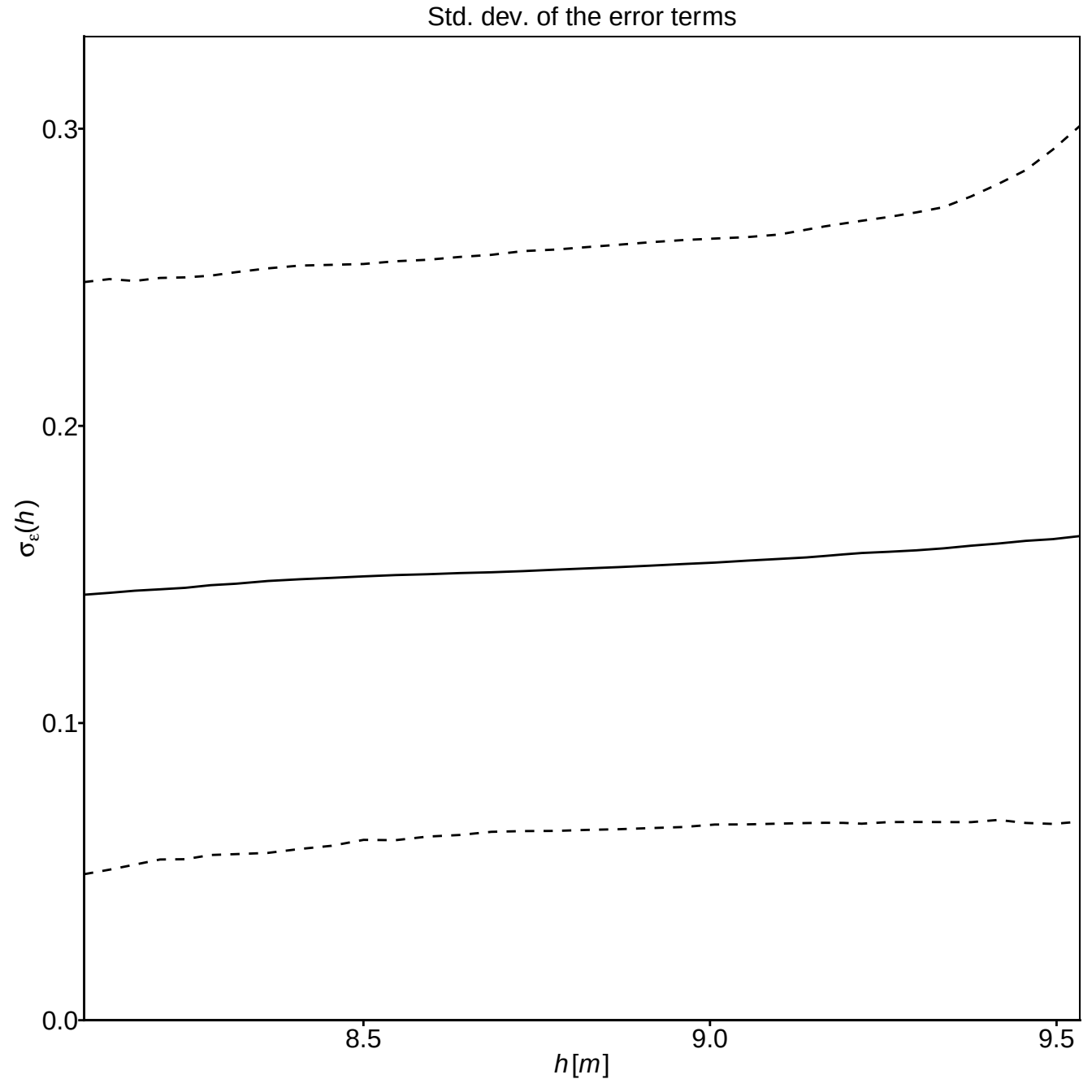

Rating curve
9.5
9.0
8.5
8.0
h [m]
0
3
6
9
12
Q [m3/s]

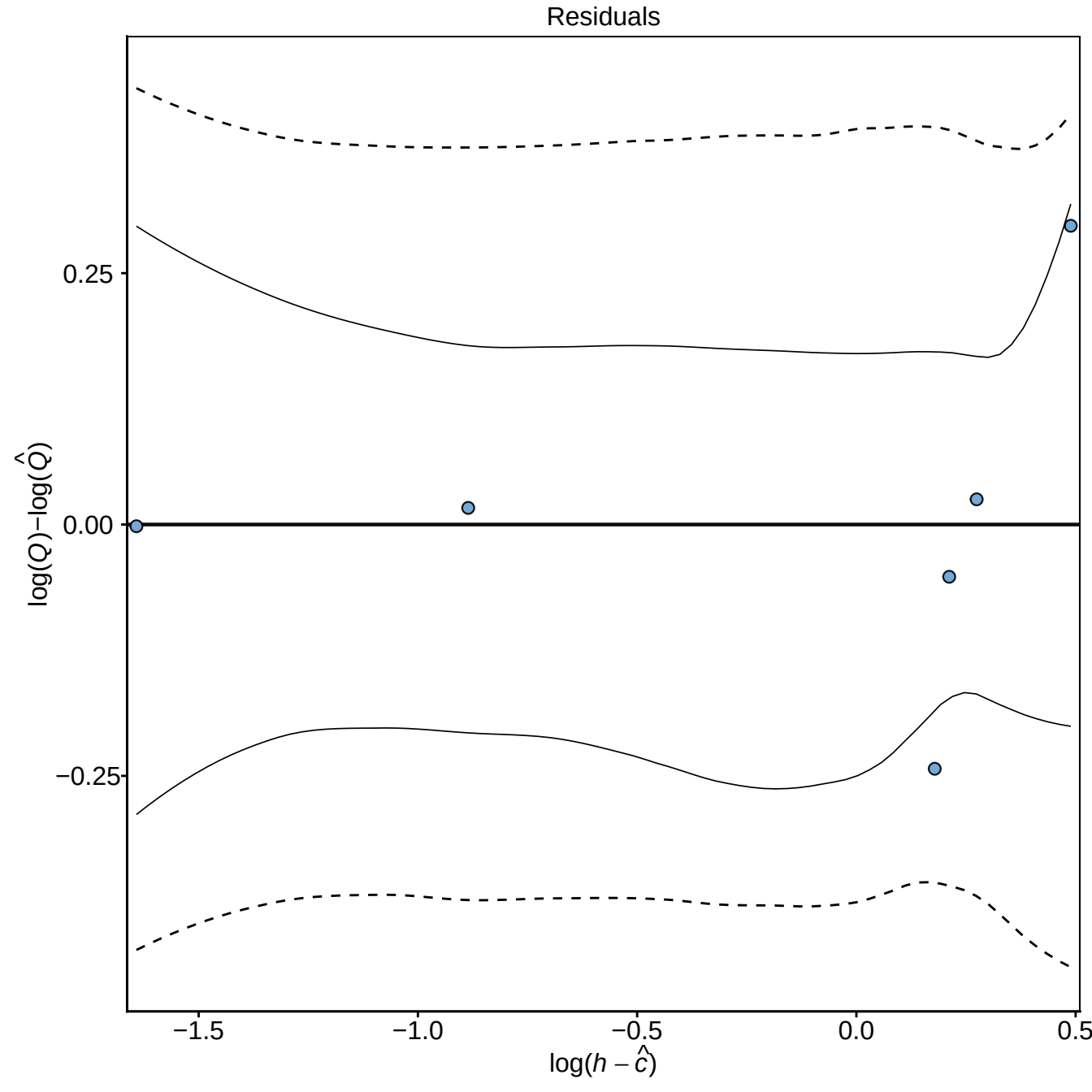

Log−transformed rating curve
log(Q)
2
1
0
−1
−2
−1.5
−1.0
−0.5
0.0
0.5
log(h−ĉ)

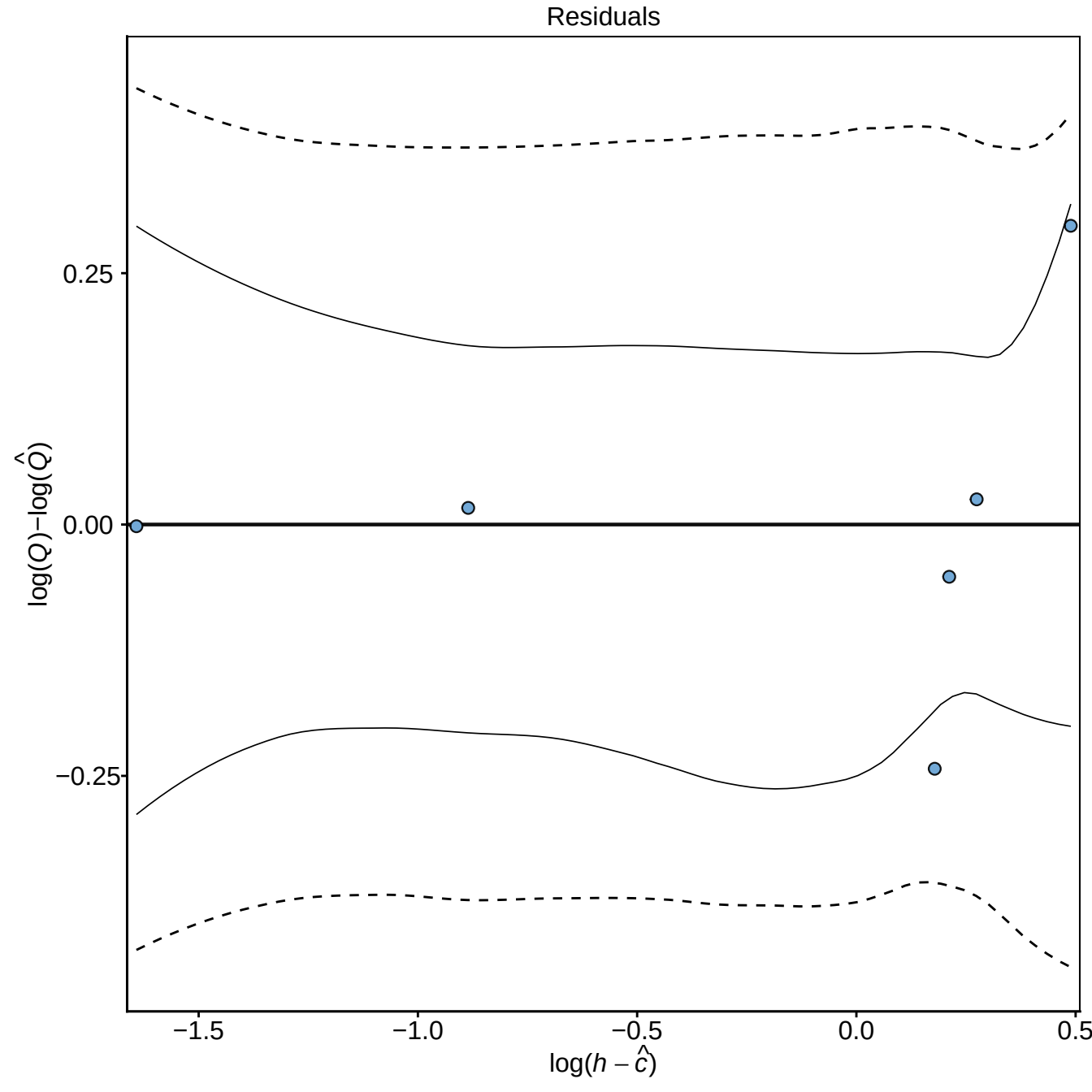

Power−law exponent
3.5
3.0
2.5
2.0
1.5
1.0
b+β(h)
8.5
9.0
9.5
h[m]

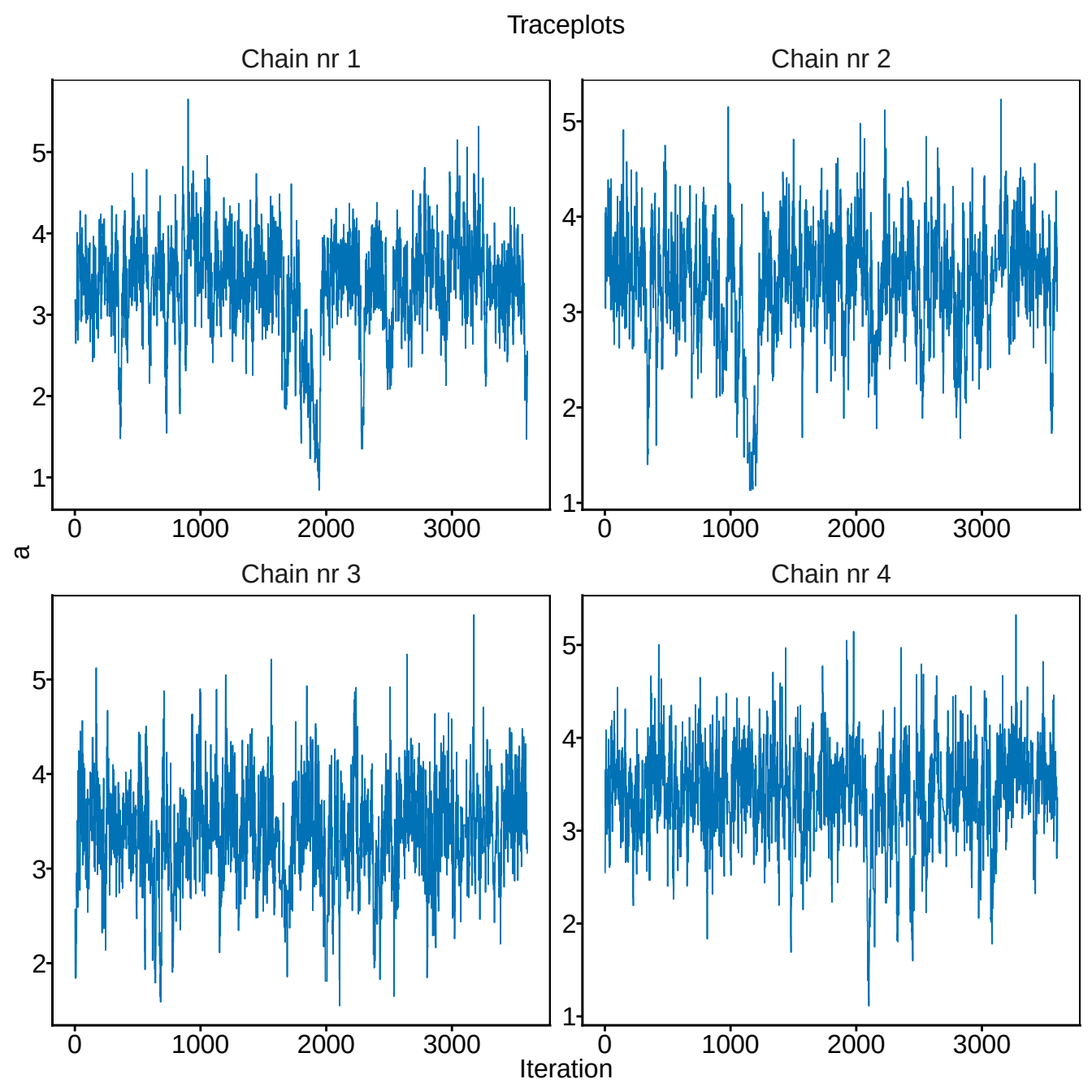

Power−law exponent
3.5
3.0
2.5
2.0
1.5
1.0
b+β(h)
8.5
9.0
9.5
h[m]

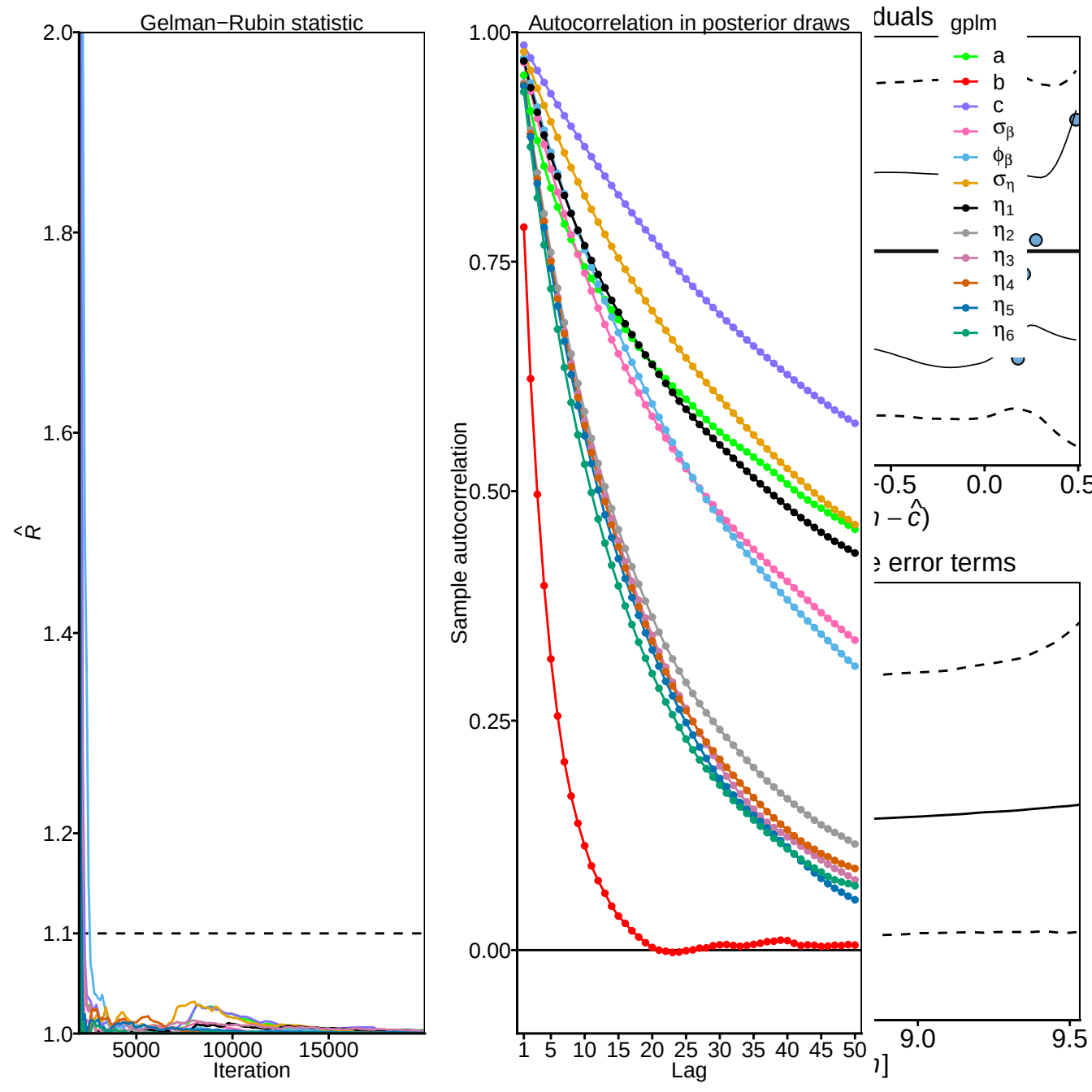

Std. dev. of the error terms
0.3
0.2
0.1
0.0
$\sigma_\varepsilon(h)$
8.5
9.0
9.5
$h\,[m]$


Std. dev. of the error terms
0.3
0.2
0.1
0.0
$\sigma_\varepsilon(h)$
8.5
9.0
9.5
$h\,[m]$


Residuals
0.25
0.00
−0.25
log(Q)−log(Q̂)
−1.5
−1.0
−0.5
0.0
0.5
log(h − ĉ)


Residuals
0.25
0.00
−0.25
log(Q)−log(Q̂)
−1.5
−1.0
−0.5
0.0
0.5
log(h − ĉ)


Traceplots
Chain nr 1
Chain nr 2
Chain nr 3
Chain nr 4
a
Iteration
1
2
3
4
5
0
1000
2000
3000


Gelman−Rubin statistic
2.0
1.8
1.6
1.4
1.2
1.1
1.0
$\hat{R}$
5000
10000
15000
Iteration
Autocorrelation in posterior draws
1.00
0.75
0.50
0.25
0.00
Sample autocorrelation
1
5
10
15
20
25
30
35
40
45
50
Lag
duals
gplm
a
b
c
σ_β
ϕ_β
σ_η
η_1
η_2
η_3
η_4
η_5
η_6
-0.5
0.0
0.5
$\hat{c}$)
error terms
9.0
9.5