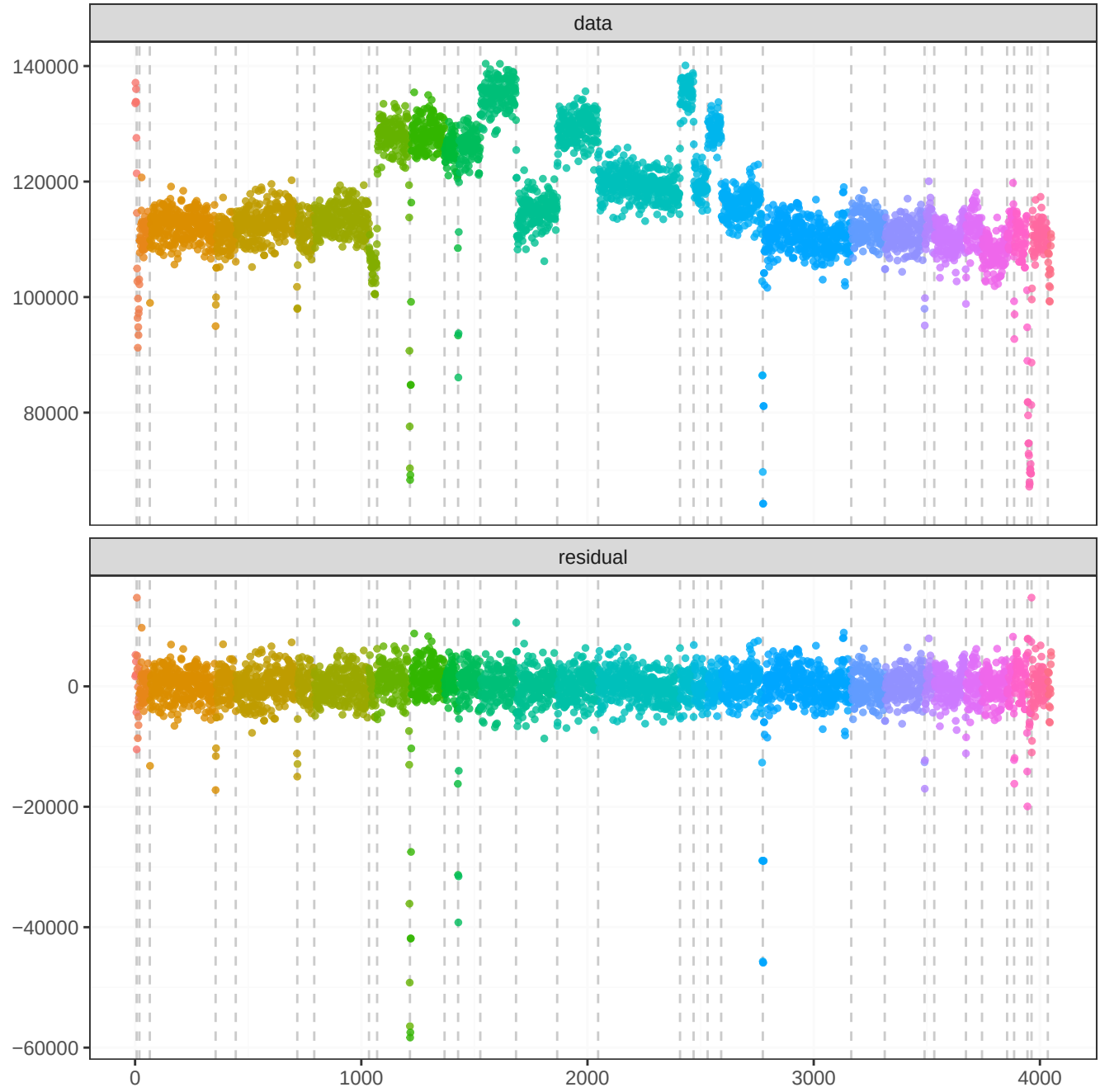
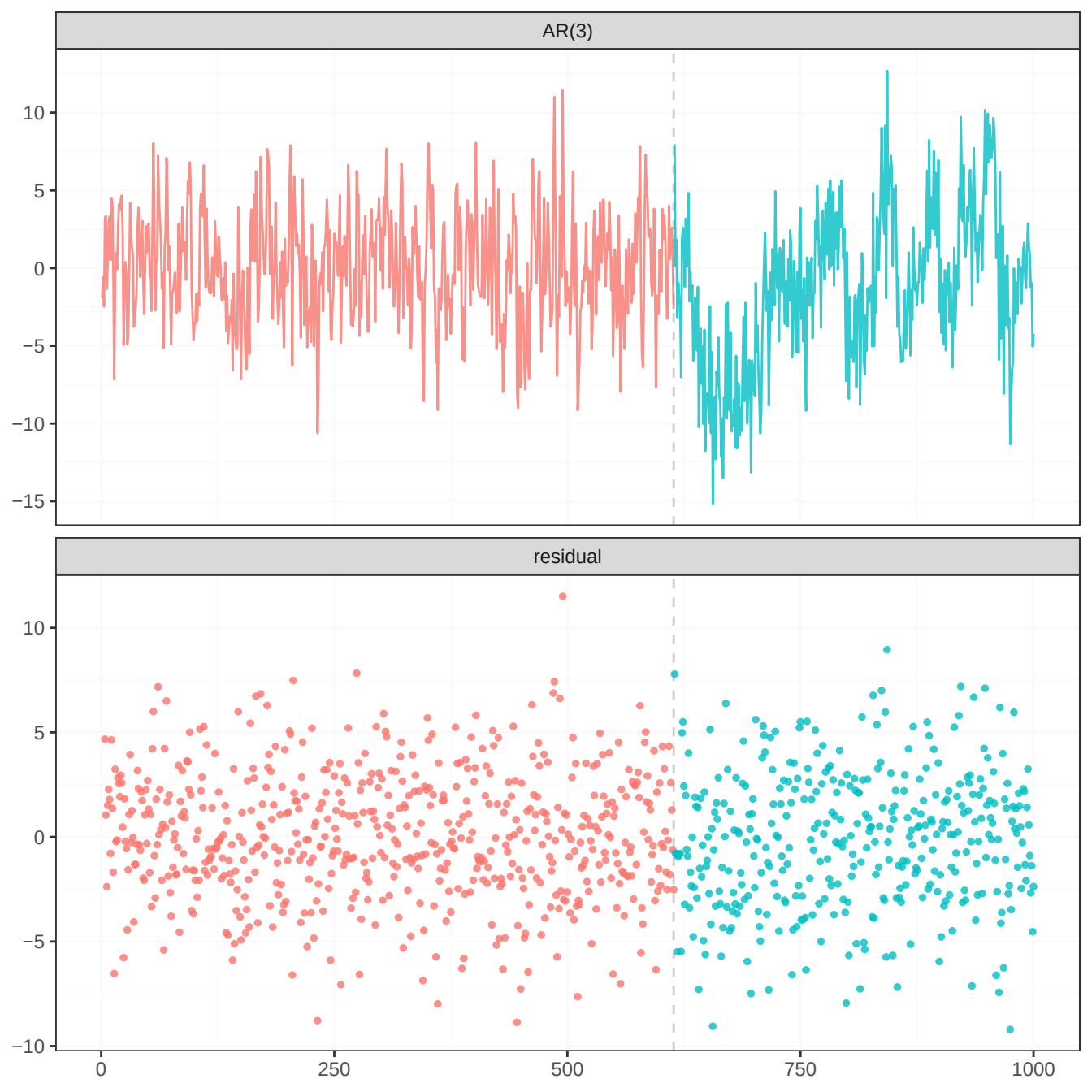
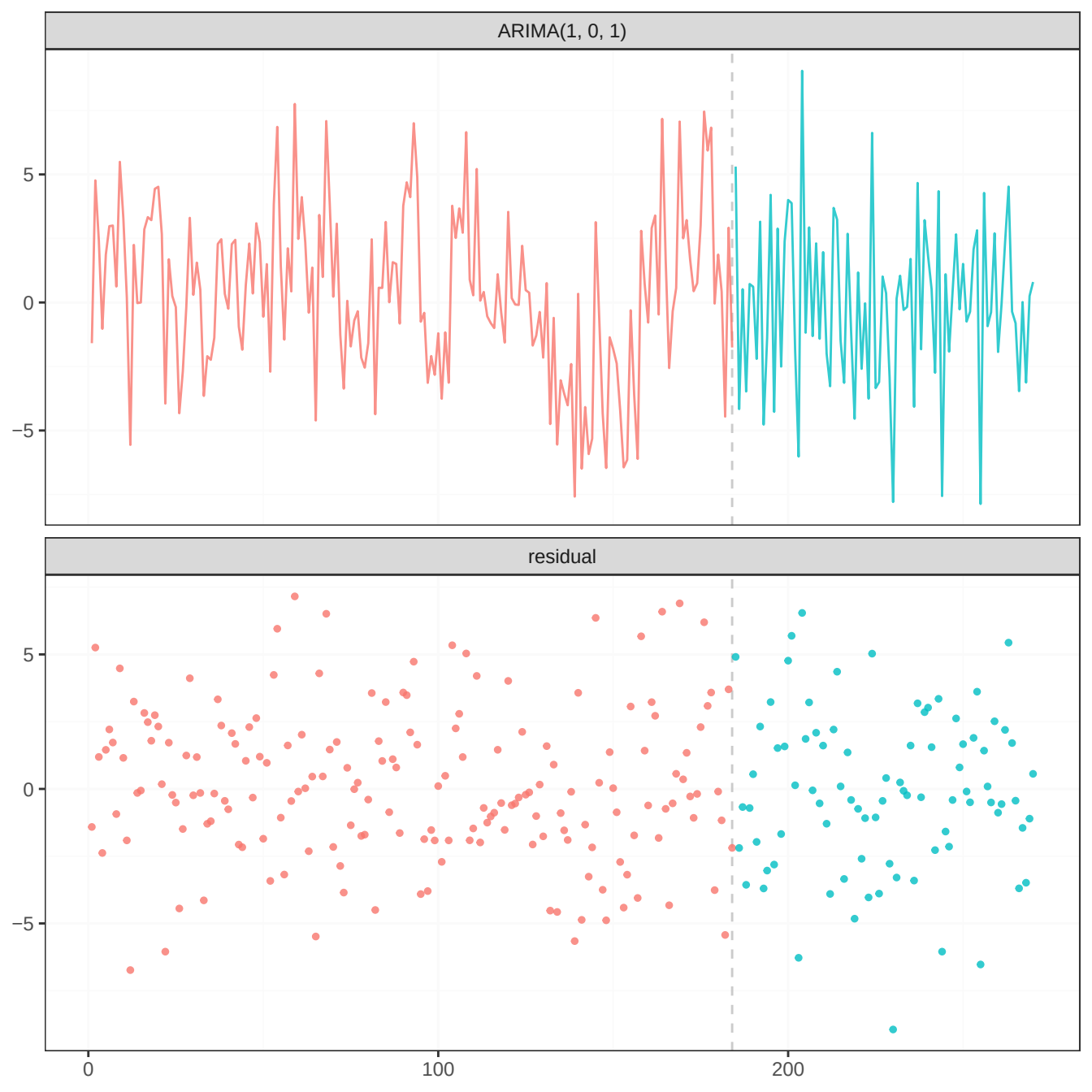
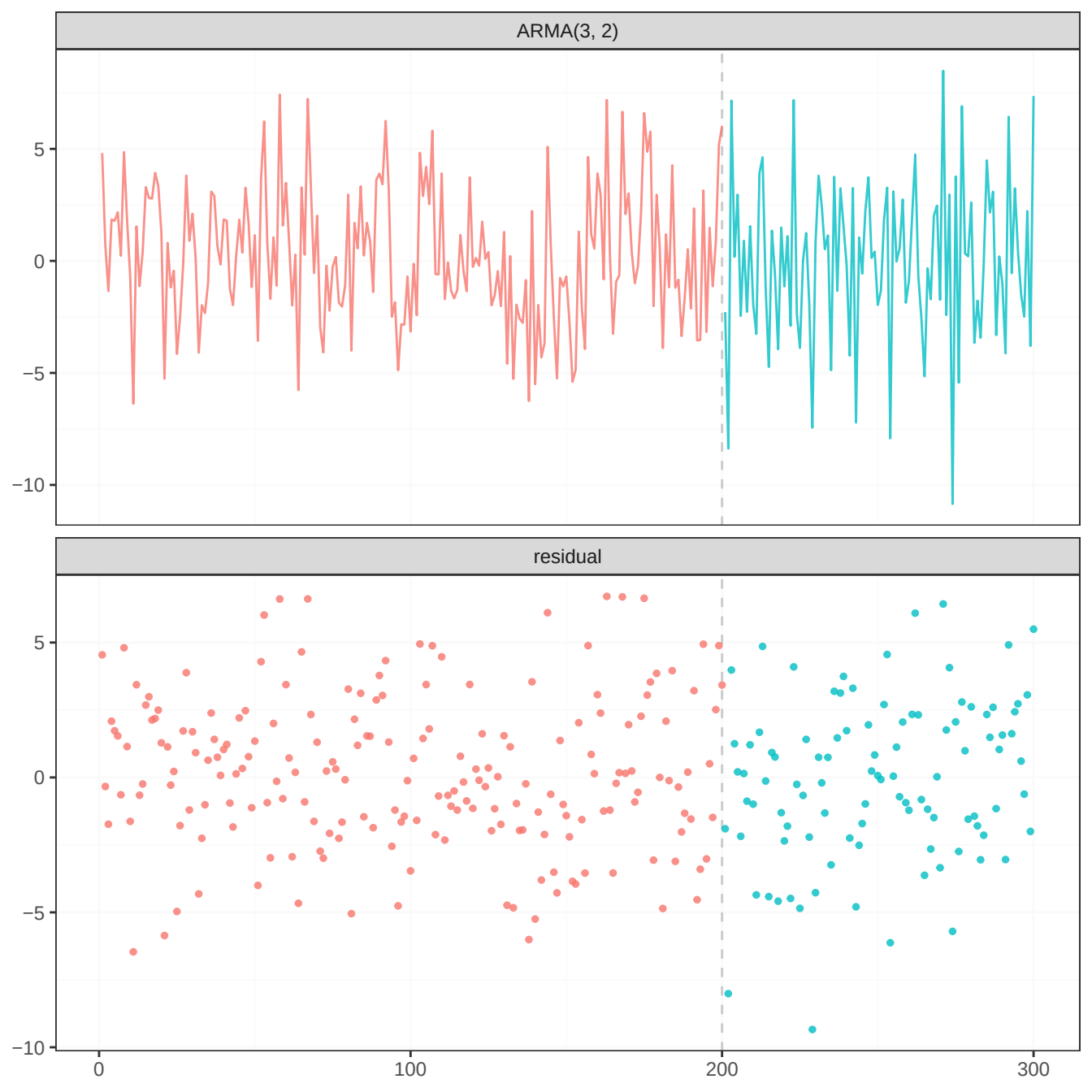
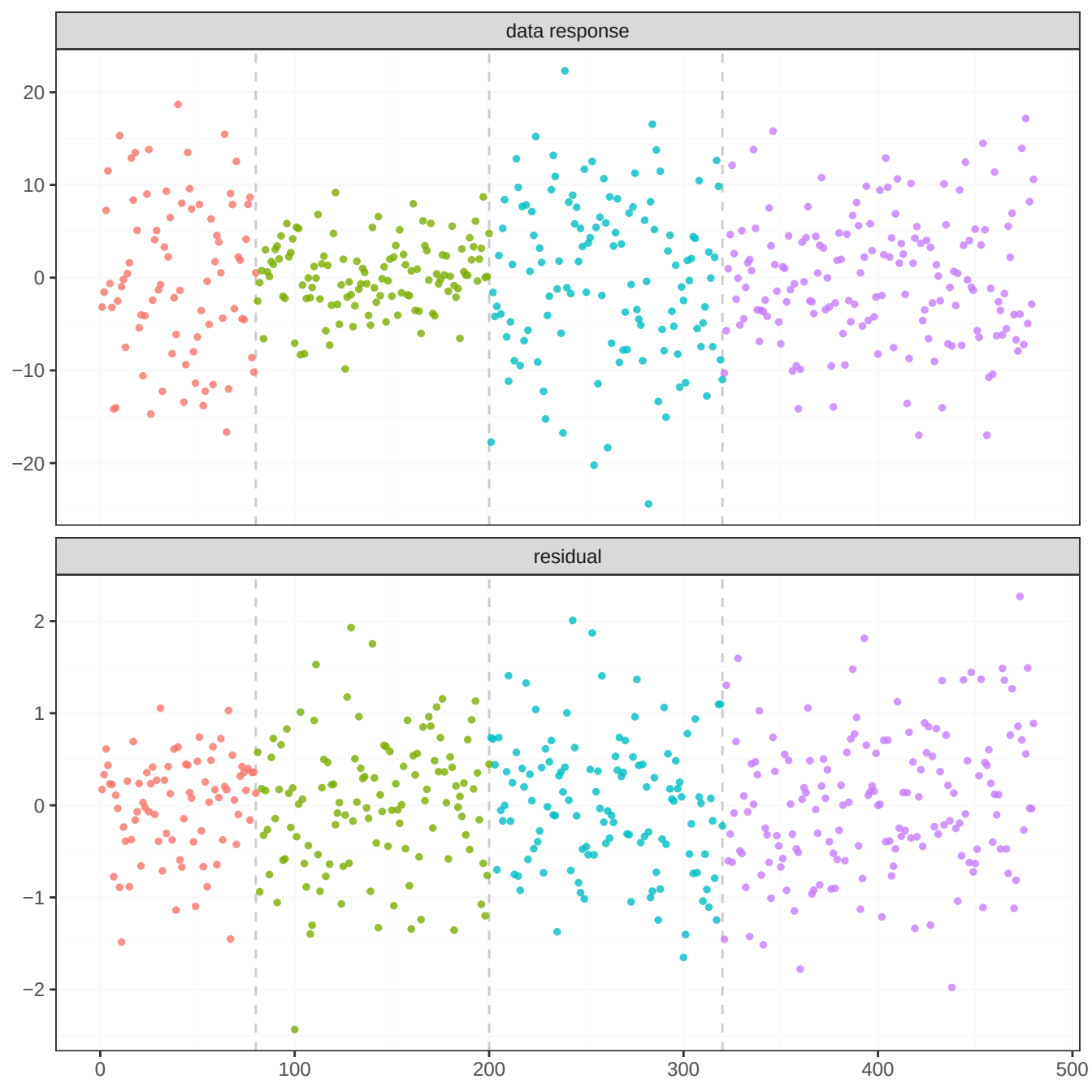

data
140000
120000
100000
80000
residual
0
−20000
−40000
−60000
0
1000
2000
3000
4000


AR(3)
10
5
0
−5
−10
−15
residual
10
5
0
−5
−10
0
250
500
750
1000


ARIMA(1, 0, 1)
5
0
−5
residual
5
0
−5
0
100
200


ARMA(3, 2)
5
0
−5
−10
residual
5
0
−5
−10
0
100
200
300


data response
20
10
0
−10
−20
residual
2
1
0
−1
−2
0
100
200
300
400
500