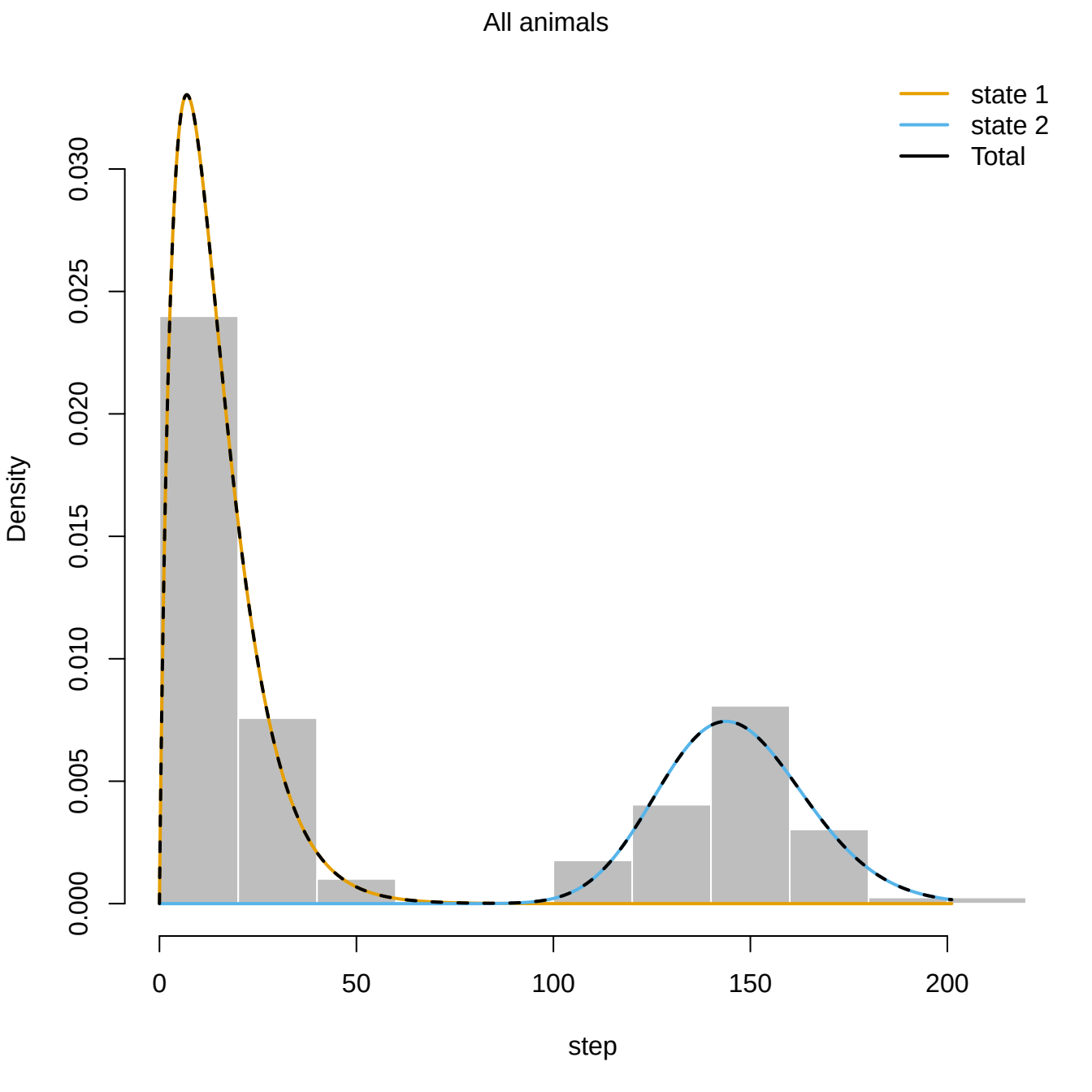
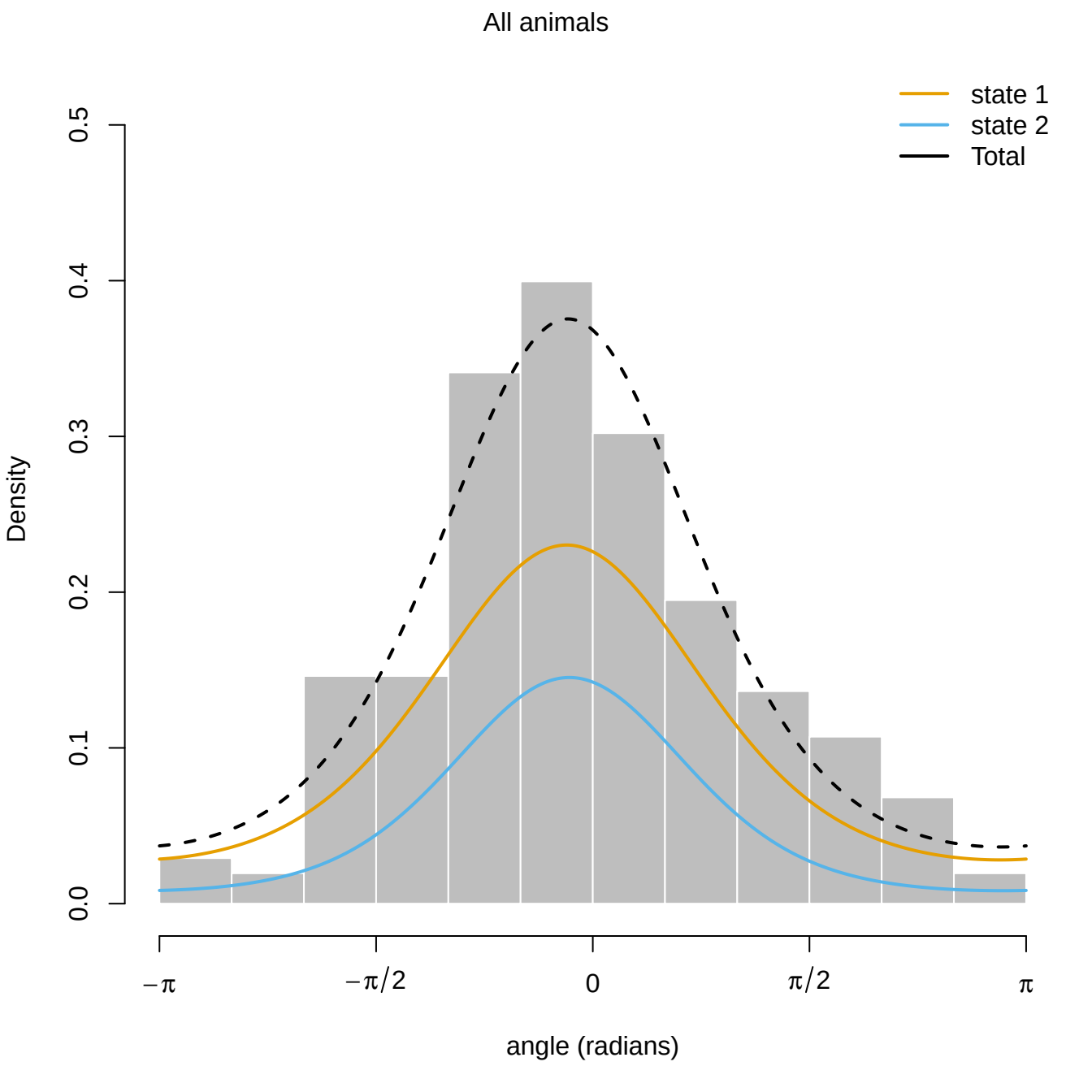
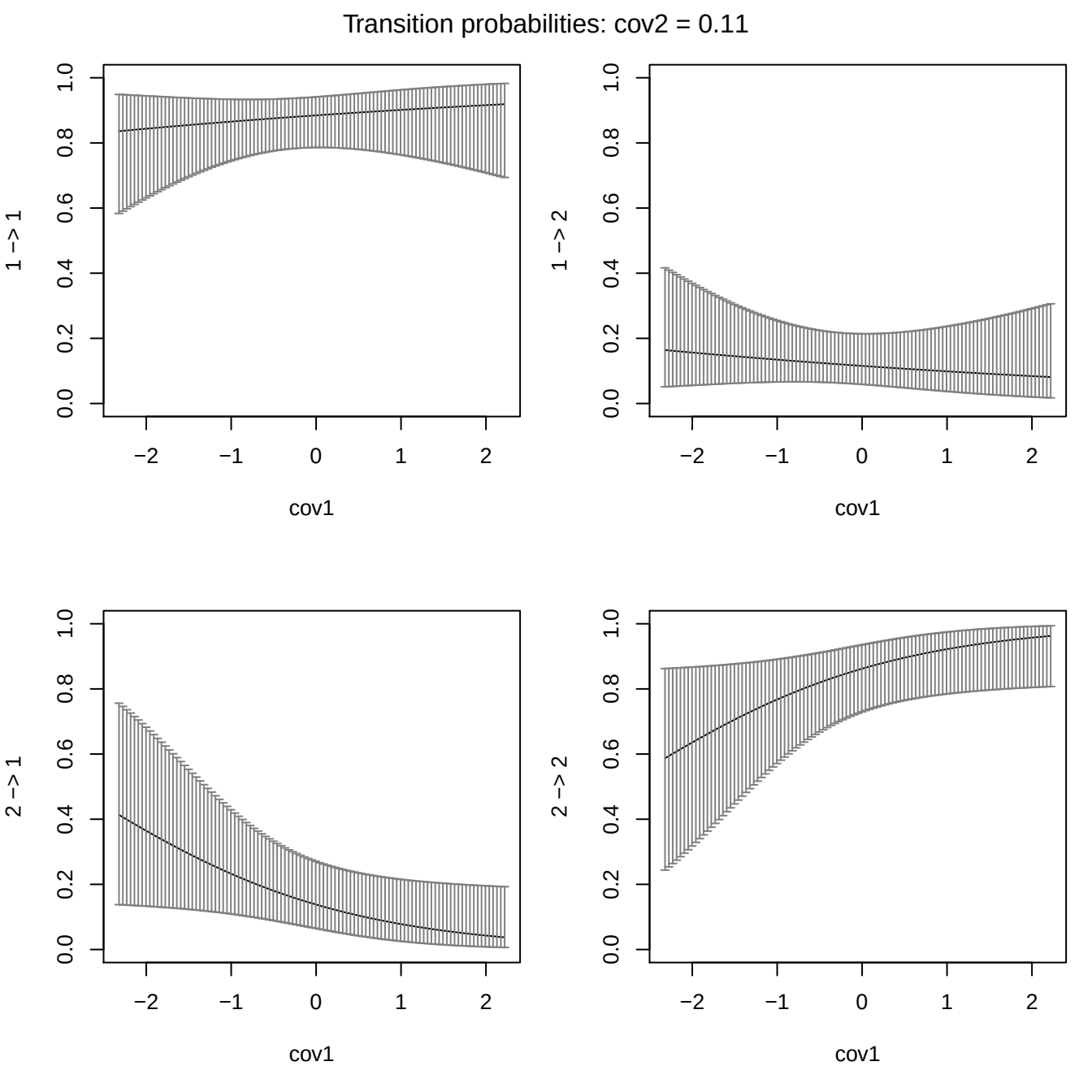
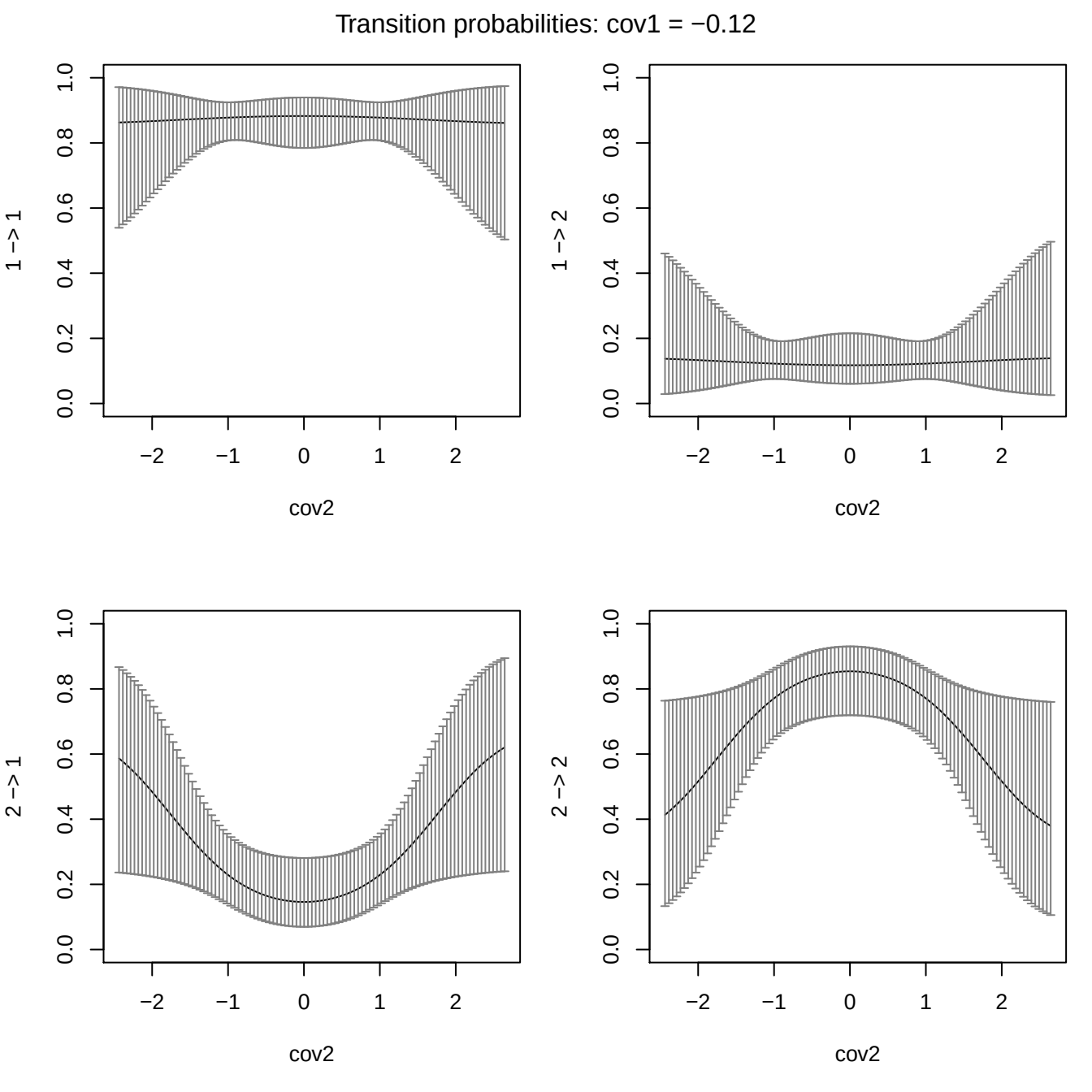
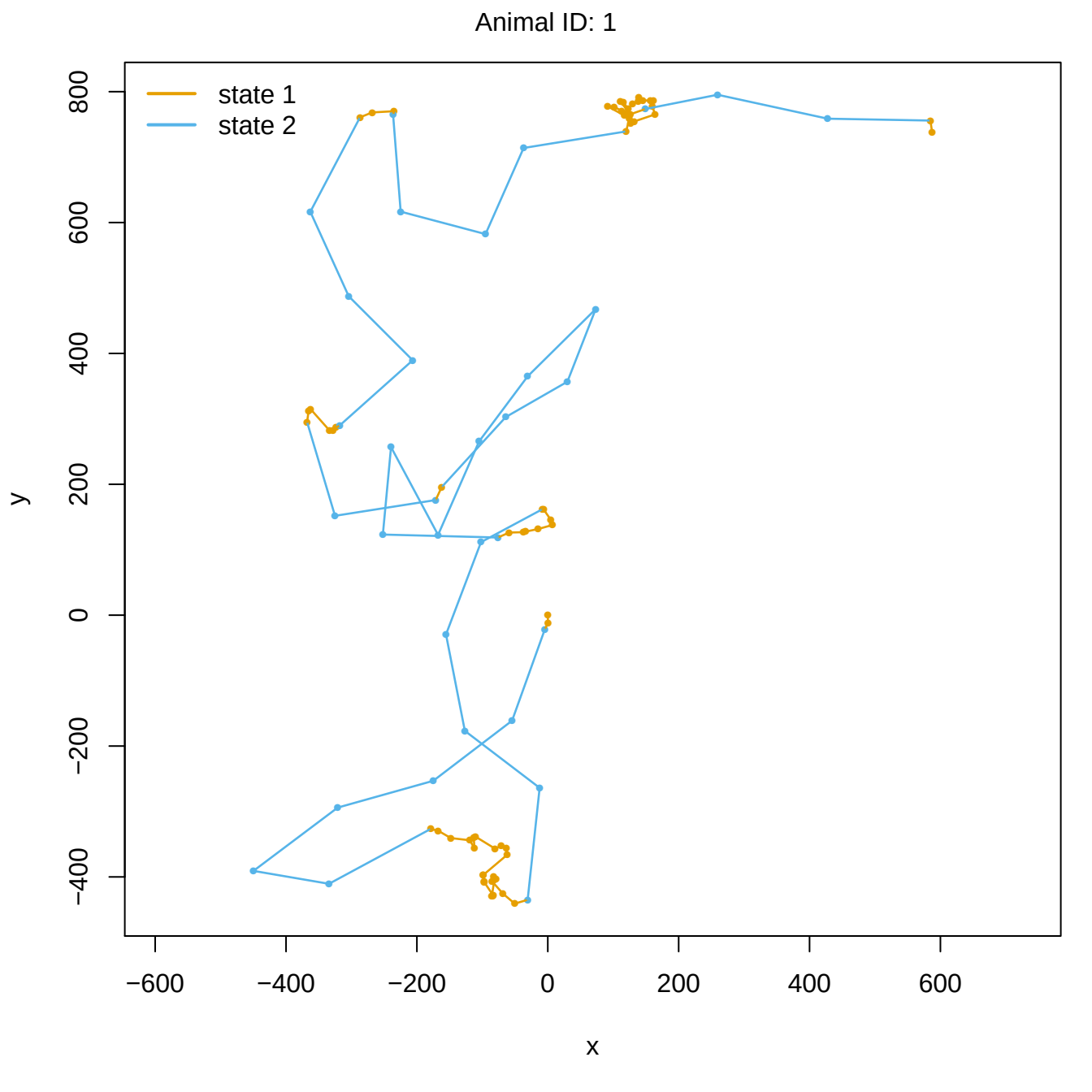
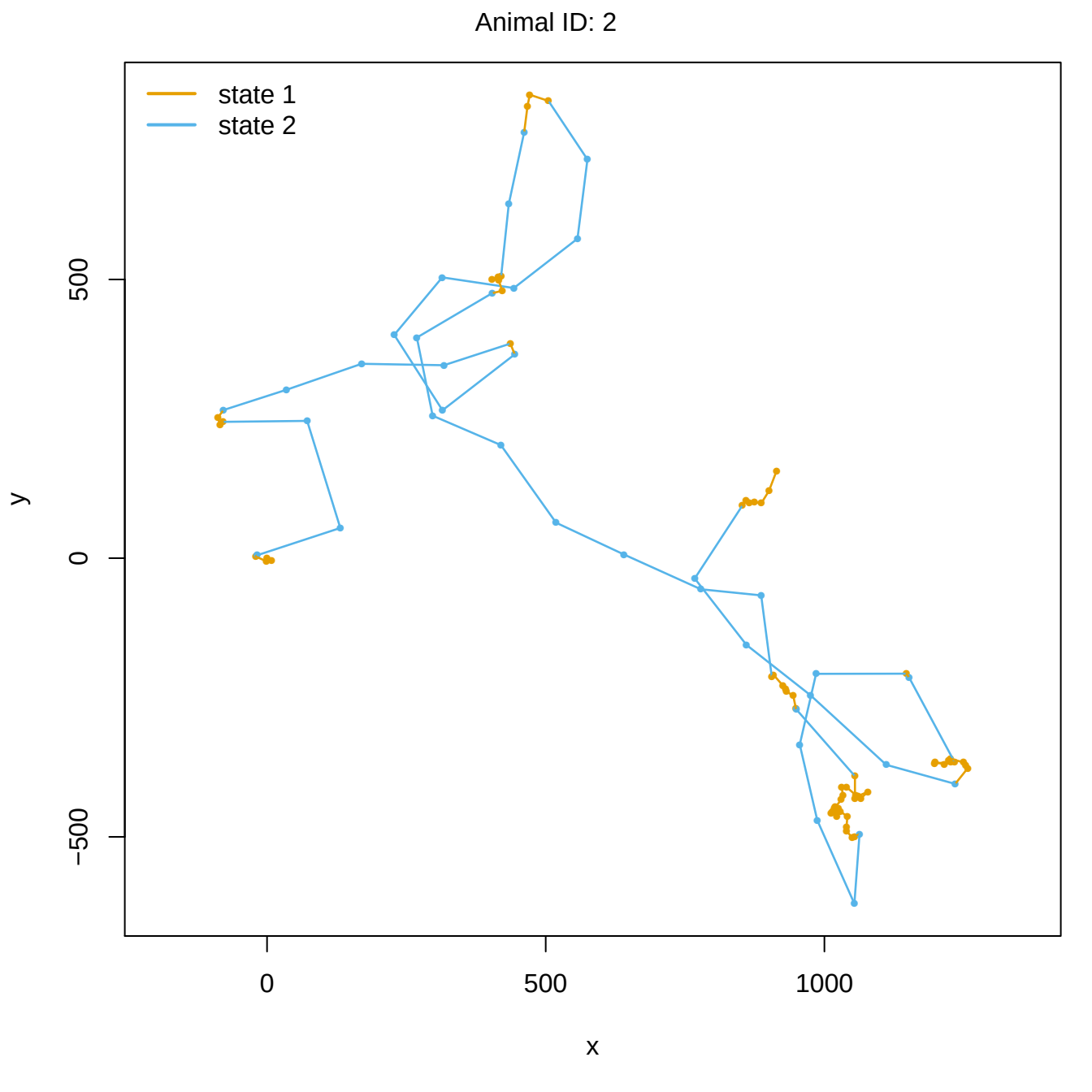

All animals
state 1
state 2
Total
Density
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0
50
100
150
200
step

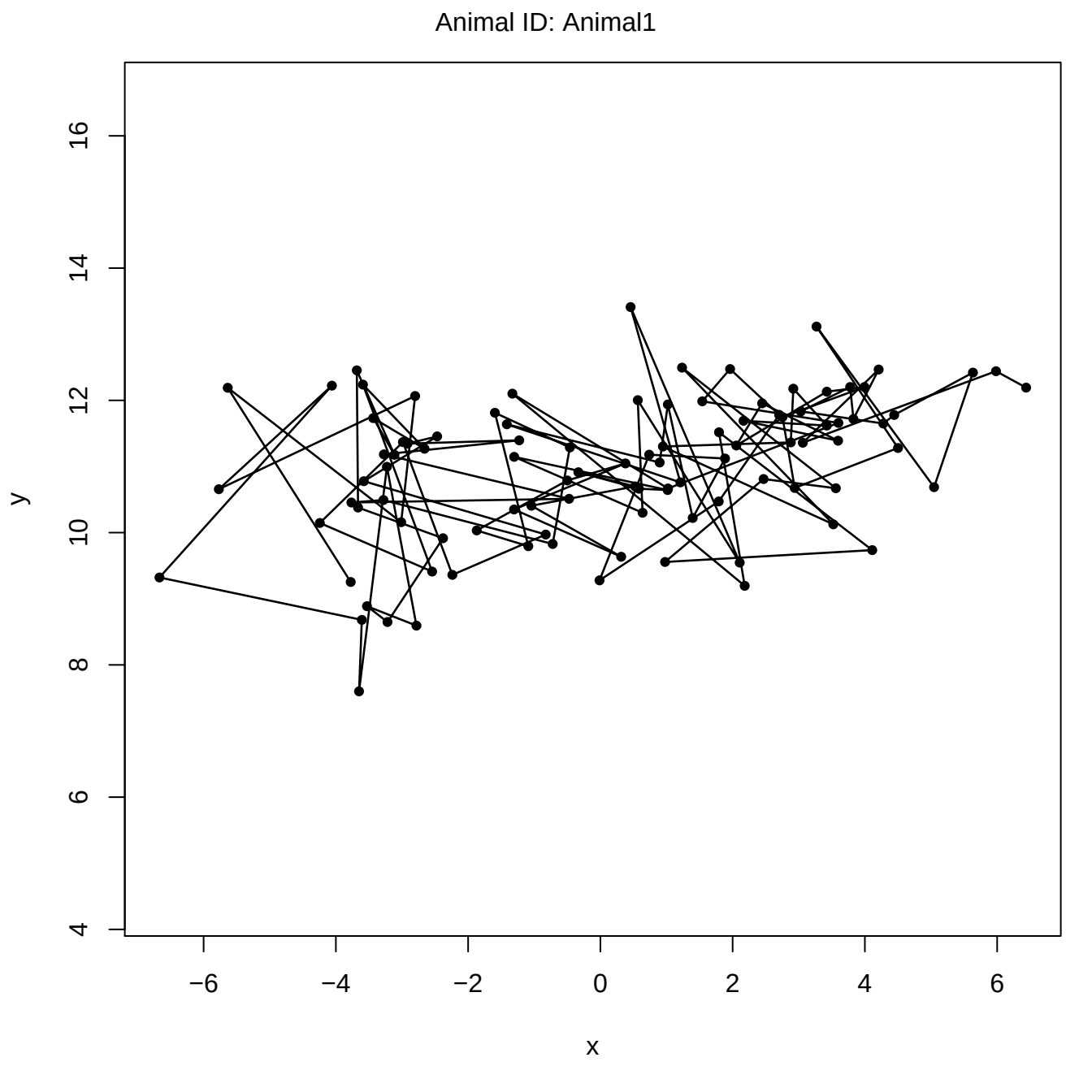

All animals
state 1
state 2
Total
Density
0.0
0.1
0.2
0.3
0.4
0.5
$-\pi$
$-\pi/2$
0
$\pi/2$
π
angle (radians)

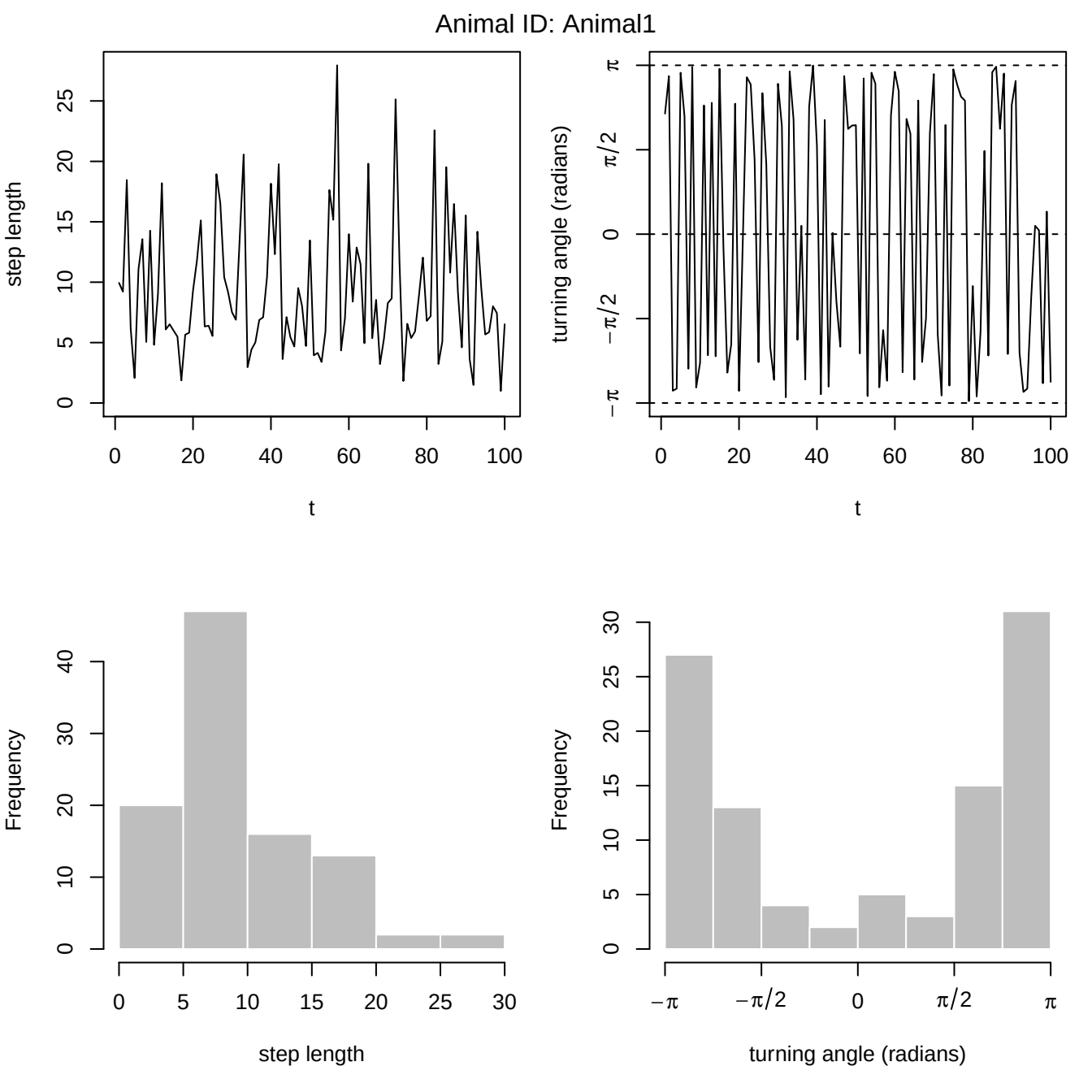

Transition probabilities: cov2 = 0.11
1 -> 1
1 -> 2
2 -> 1
2 -> 2
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
cov1


Transition probabilities: cov1 = −0.12
1 –> 1
1 –> 2
2 –> 1
2 –> 2
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
cov2


Animal ID: 1
state 1
state 2
800
600
400
200
0
−200
−400
y
−600
−400
−200
0
200
400
600
x


Animal ID: 2
state 1
state 2
500
0
−500
y
0
500
1000
x


Animal ID: Animal1
y
16
14
12
10
8
6
4
−6
−4
−2
0
2
4
6
x


Animal ID: Animal1
step length
t
turning angle (radians)
t
Frequency
step length
Frequency
turning angle (radians)