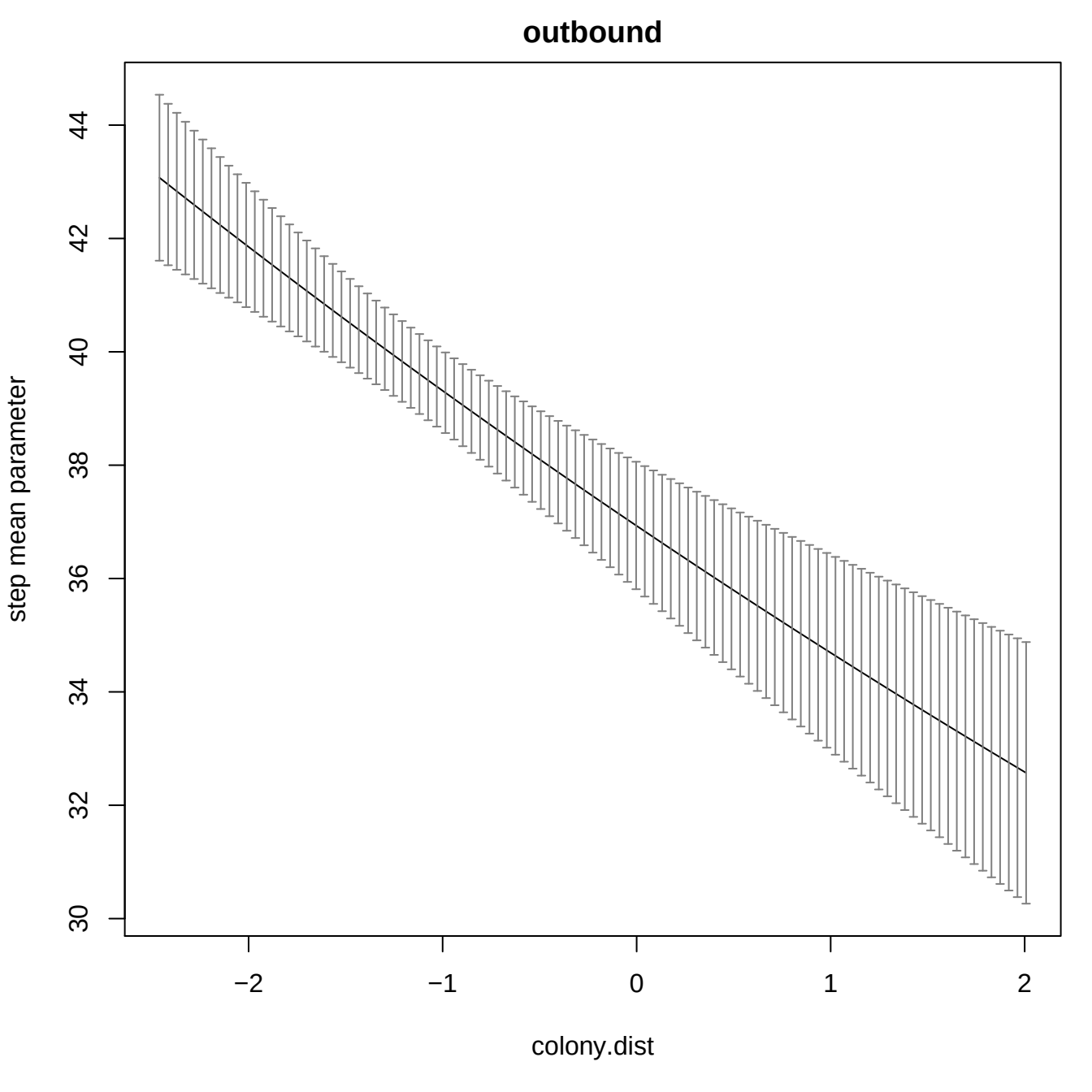
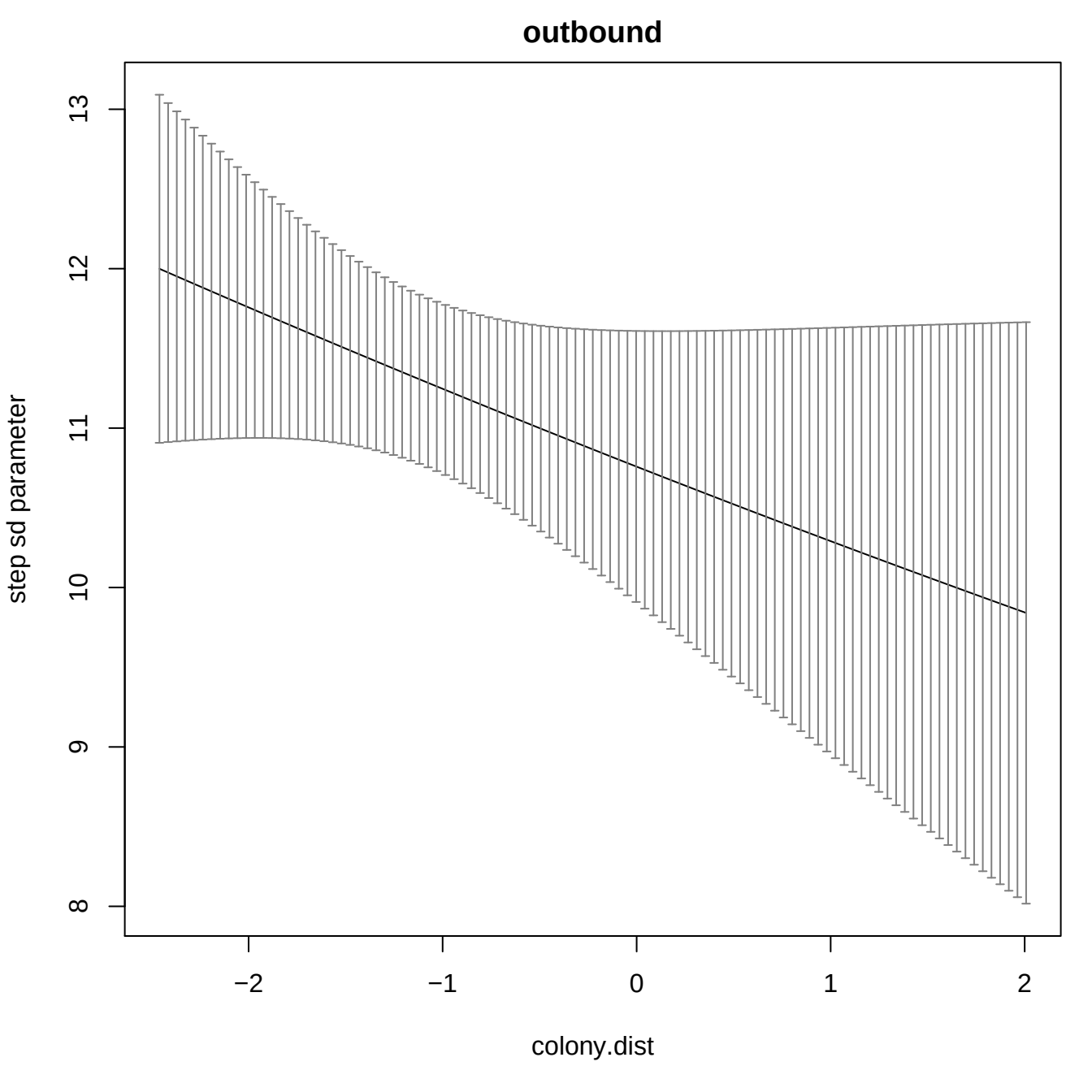
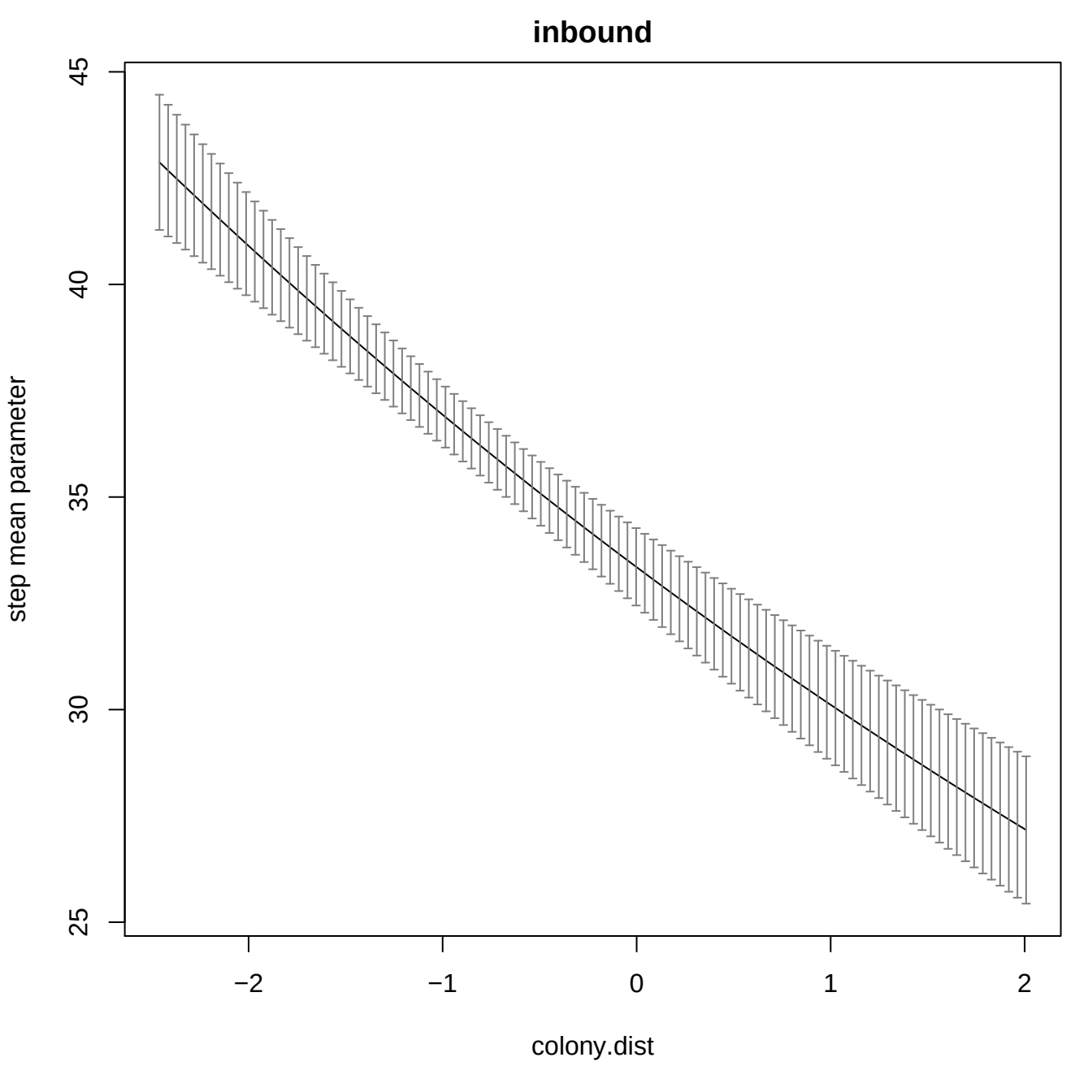
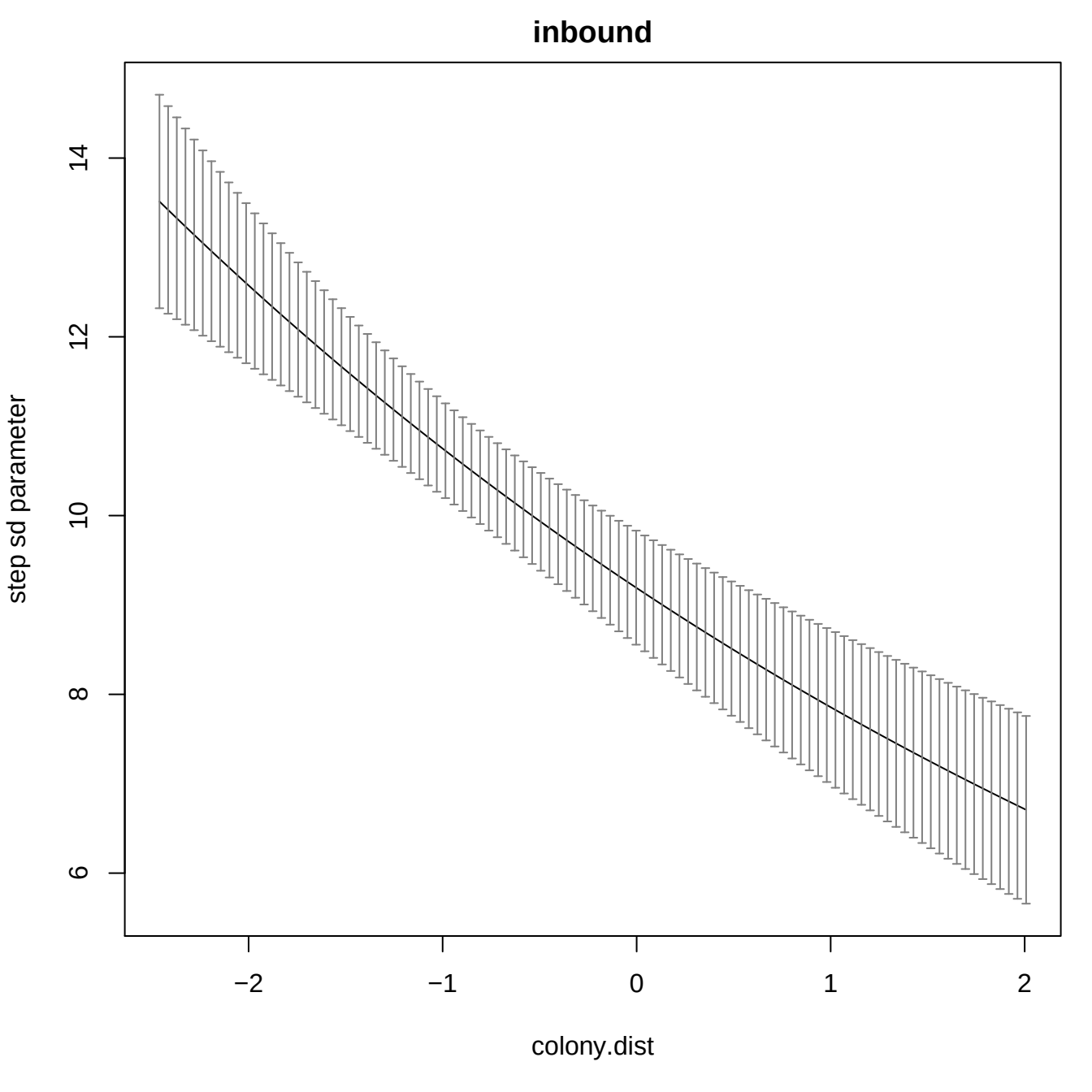
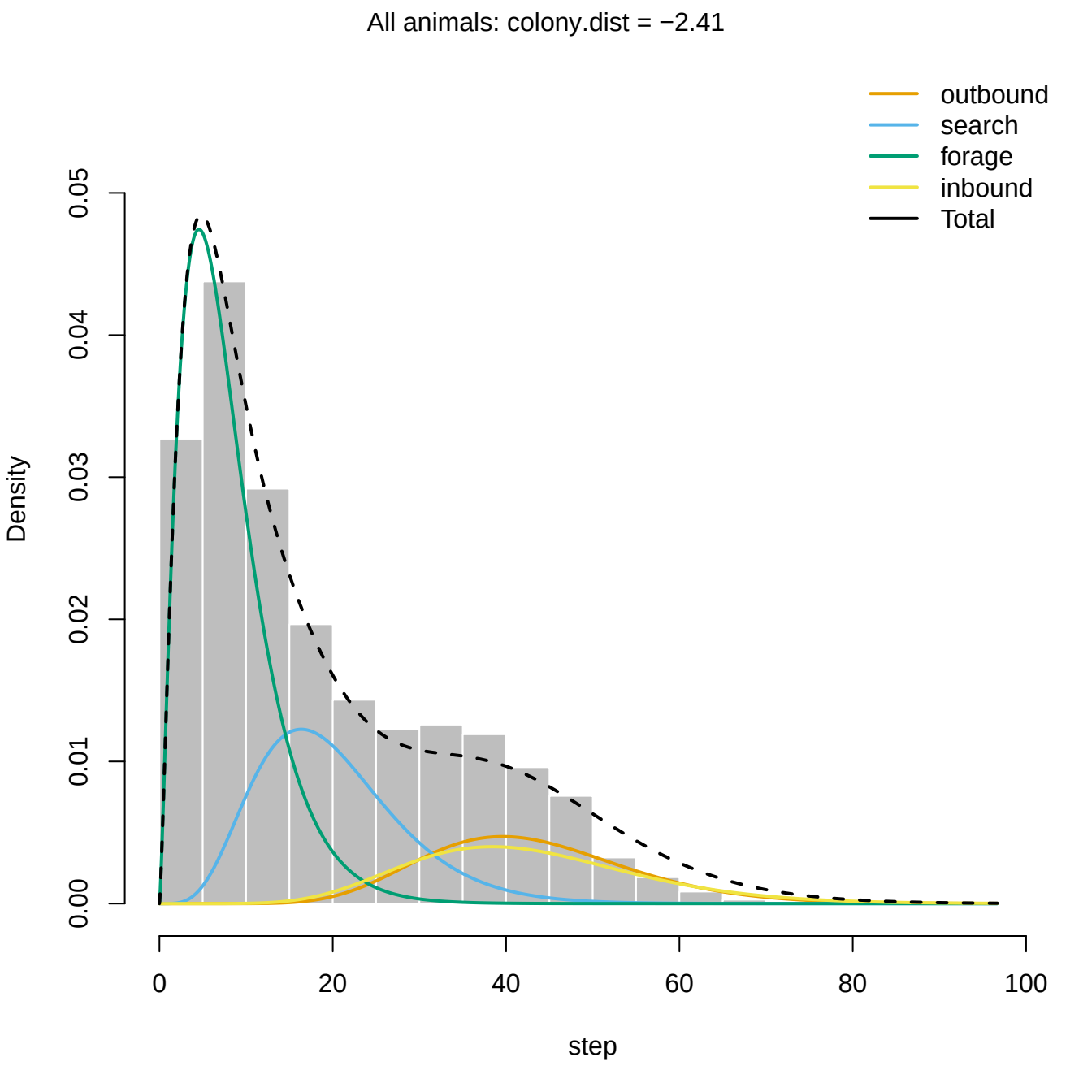
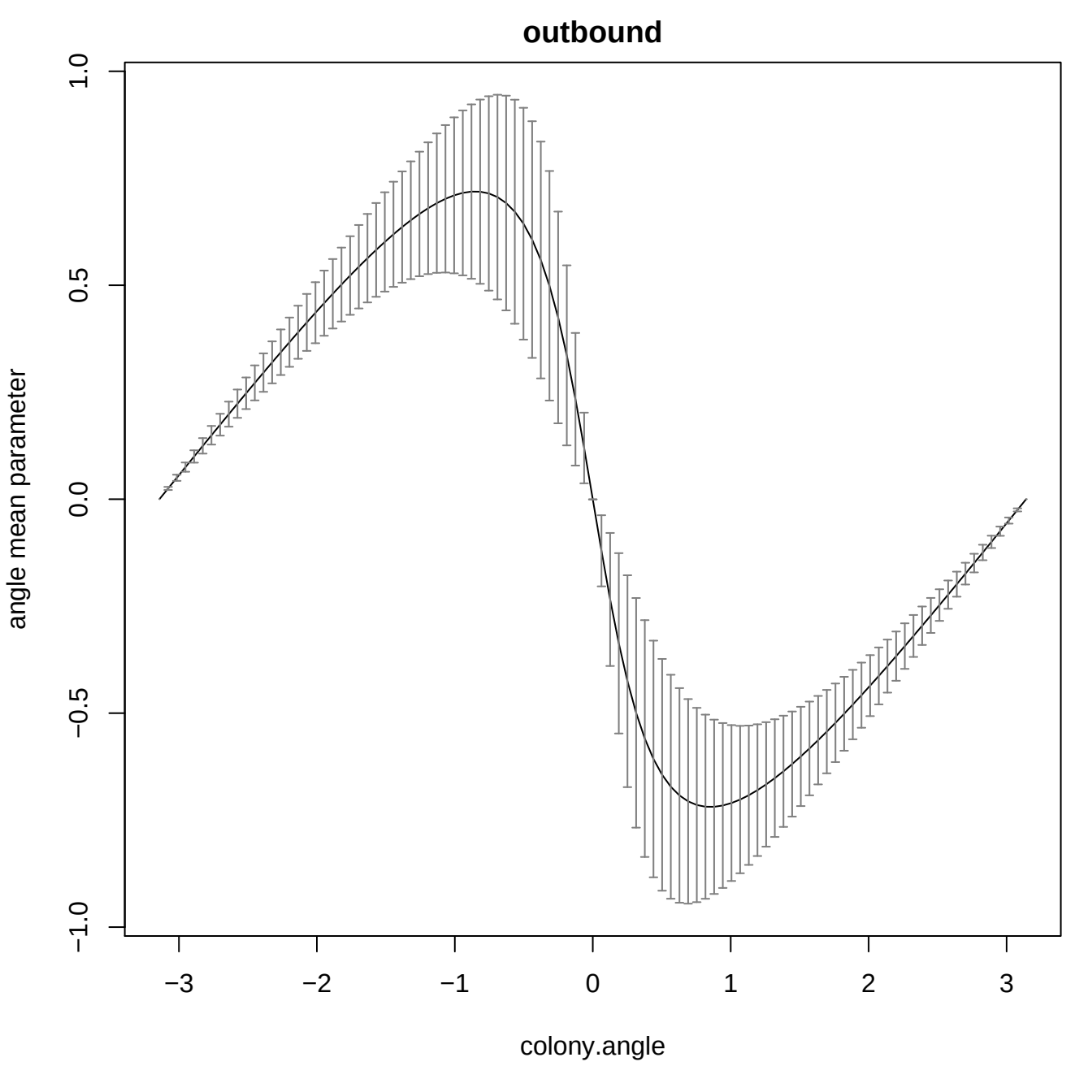

outbound
step mean parameter
30
32
34
36
38
40
42
44
−2
−1
0
1
2
colony.dist

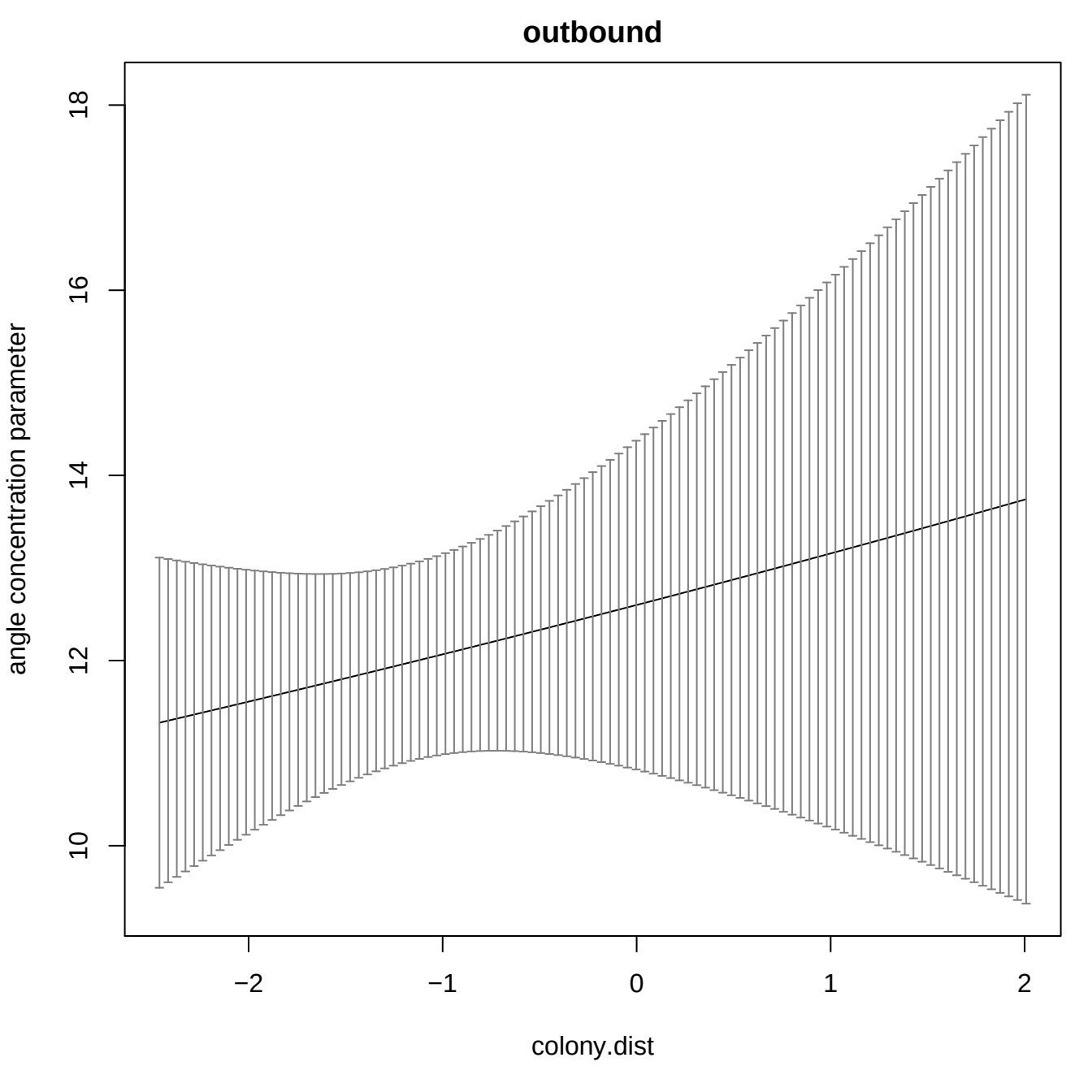

outbound
step sd parameter
13
12
11
10
9
8
−2
−1
0
1
2
colony.dist

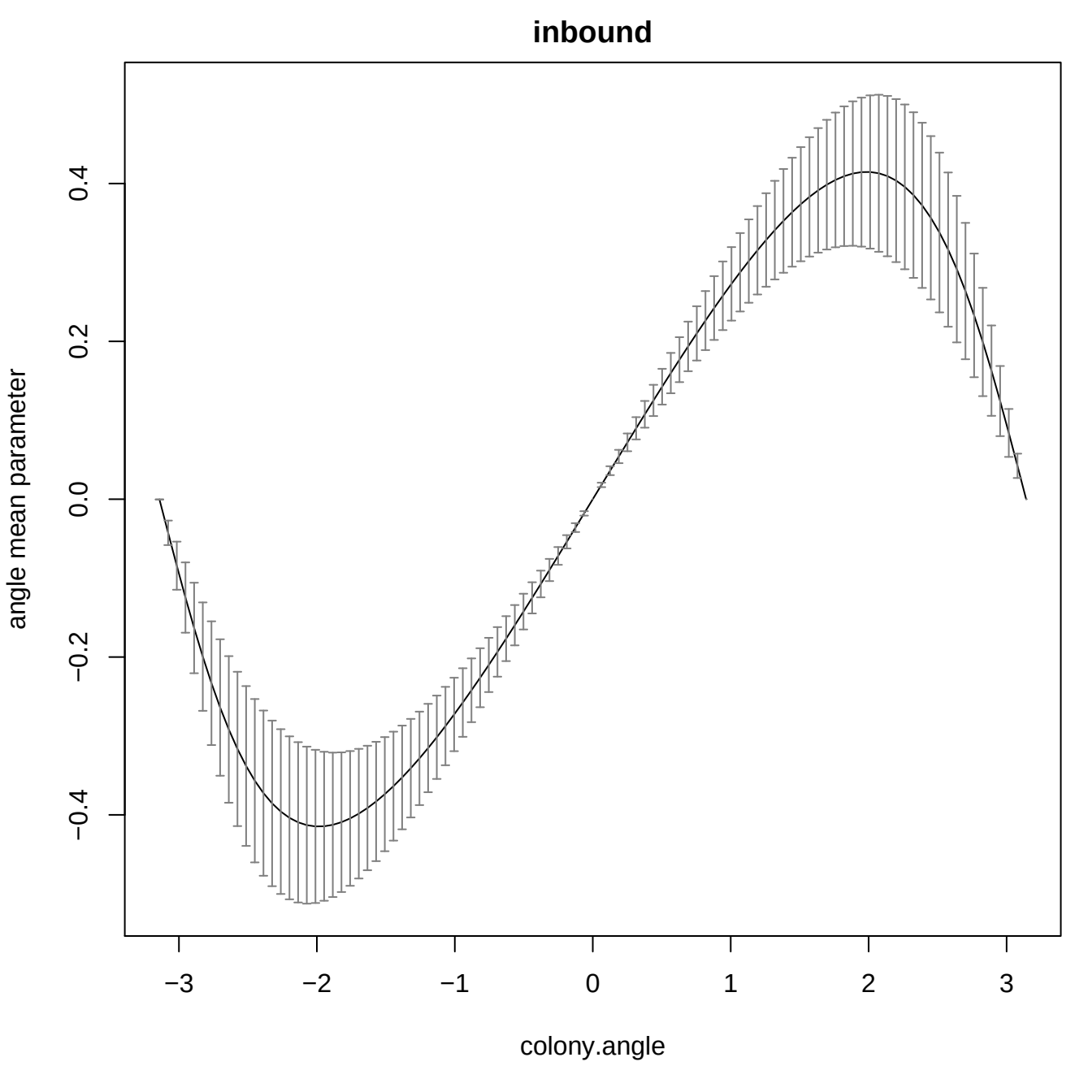

inbound
step mean parameter
45
40
35
30
25
−2
−1
0
1
2
colony.dist

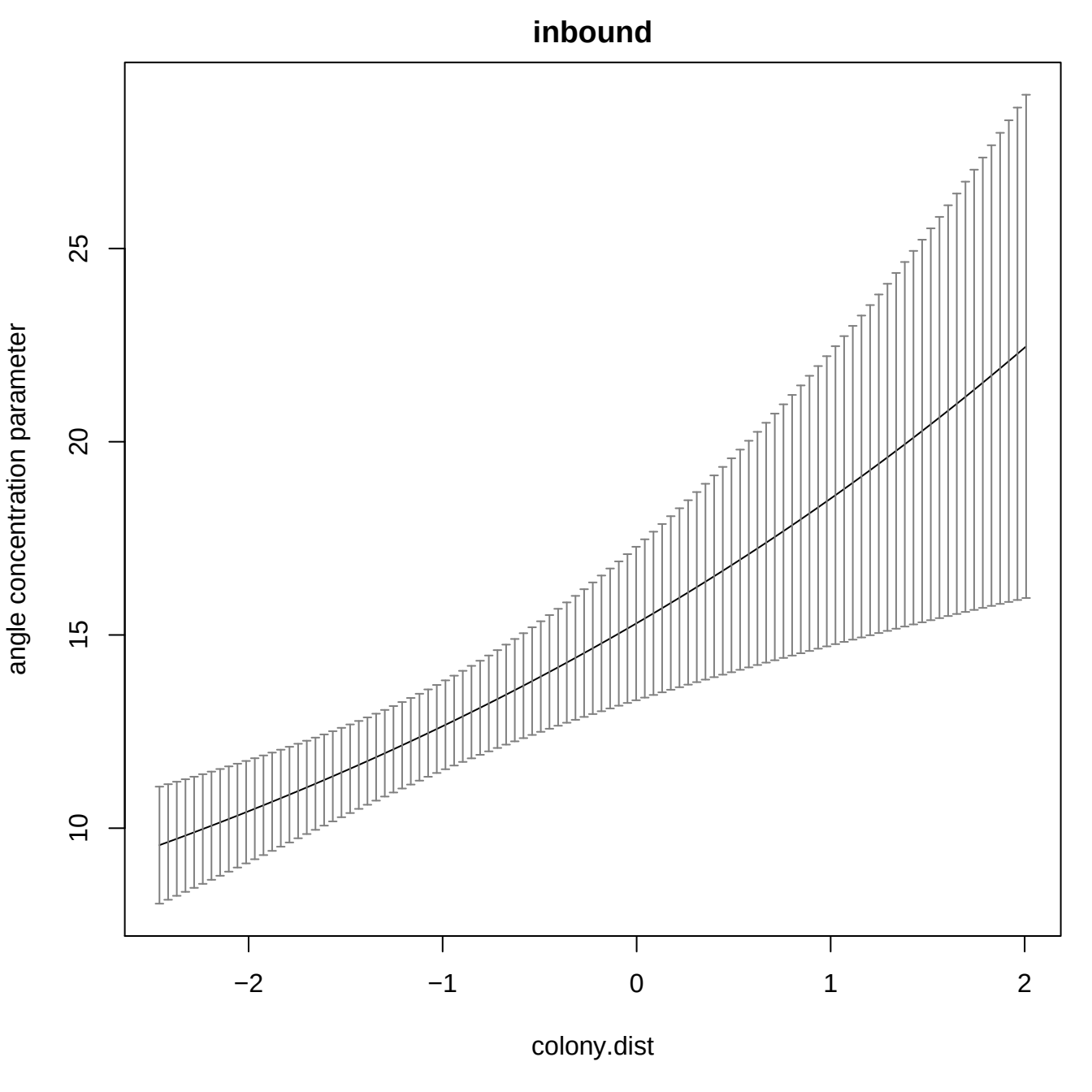

inbound
step sd parameter
14
12
10
8
6
−2
−1
0
1
2
colony.dist

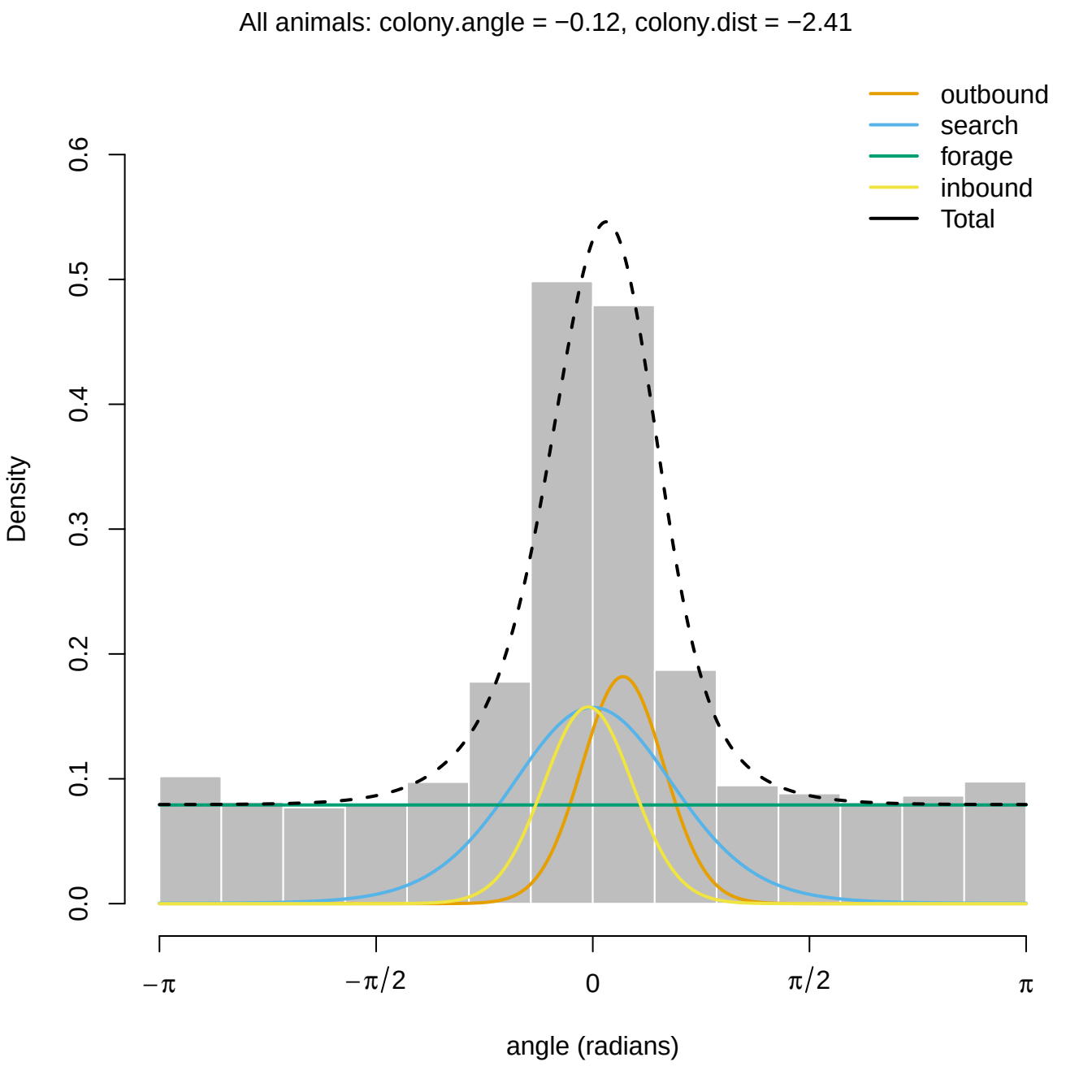

All animals: colony.dist = −2.41
outbound
search
forage
inbound
Total
Density
0.00
0.01
0.02
0.03
0.04
0.05
0
20
40
60
80
100
step

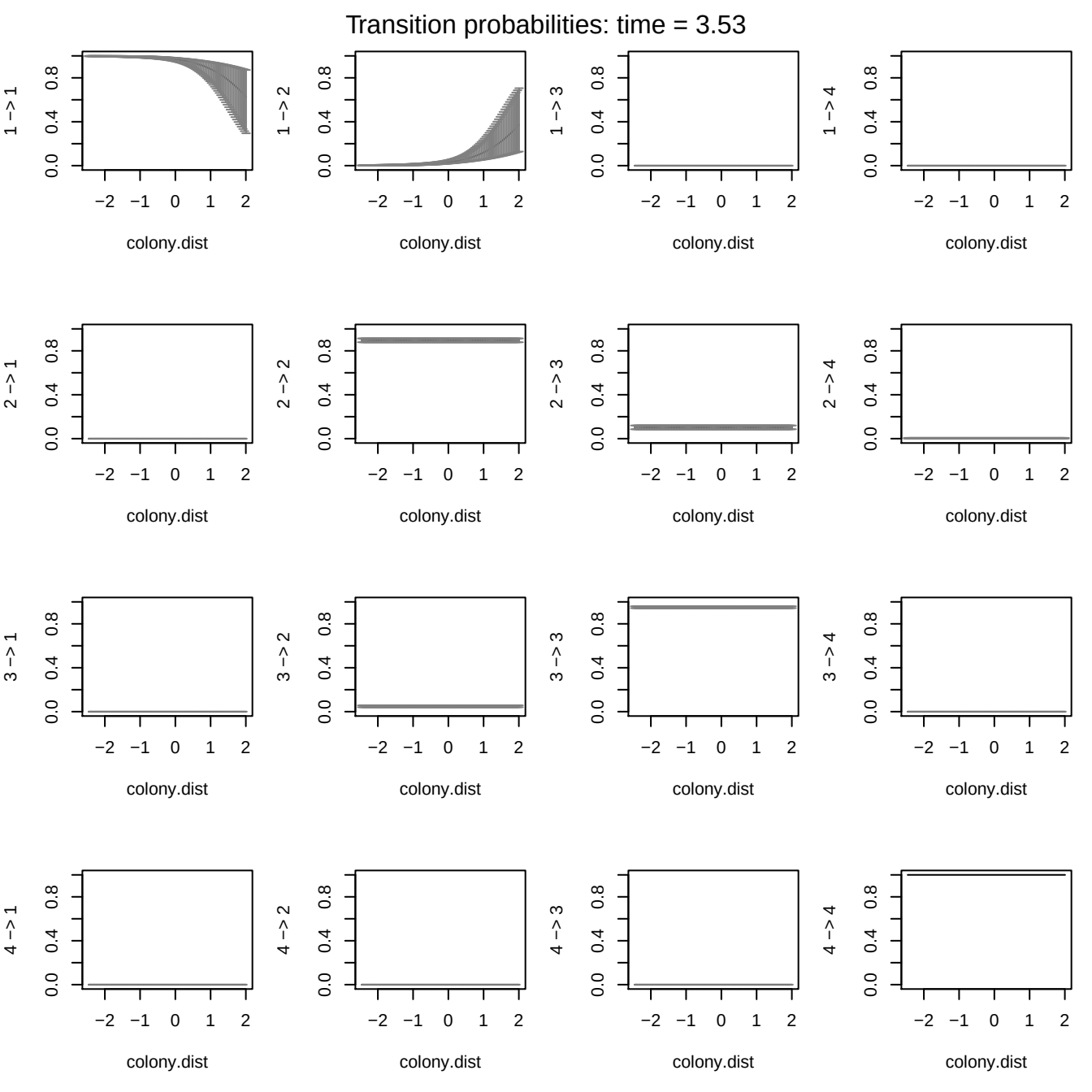

outbound
angle mean parameter
1.0
0.5
0.0
−0.5
−1.0
−3
−2
−1
0
1
2
3
colony.angle

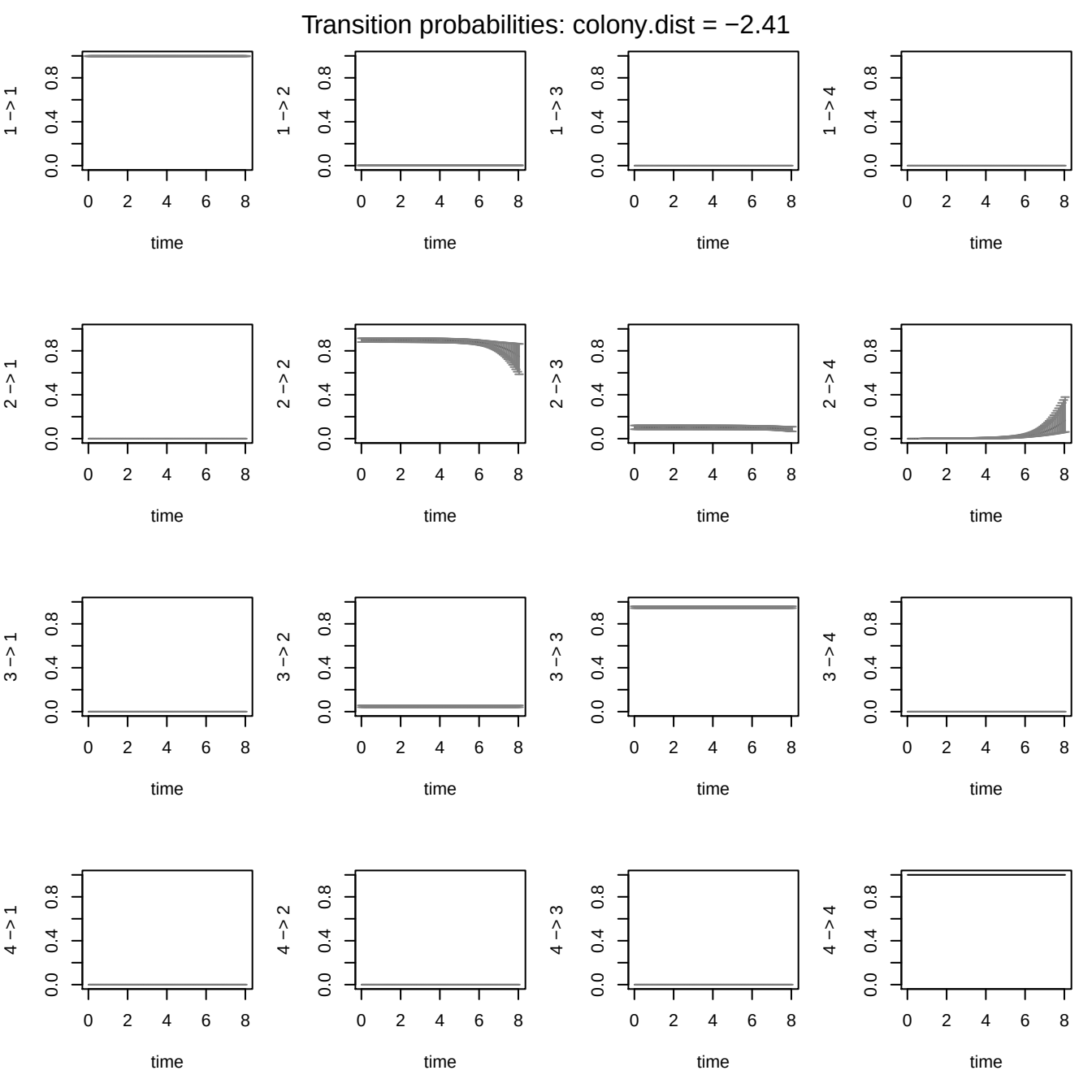

outbound
angle concentration parameter
10
12
14
16
18
−2
−1
0
1
2
colony.dist

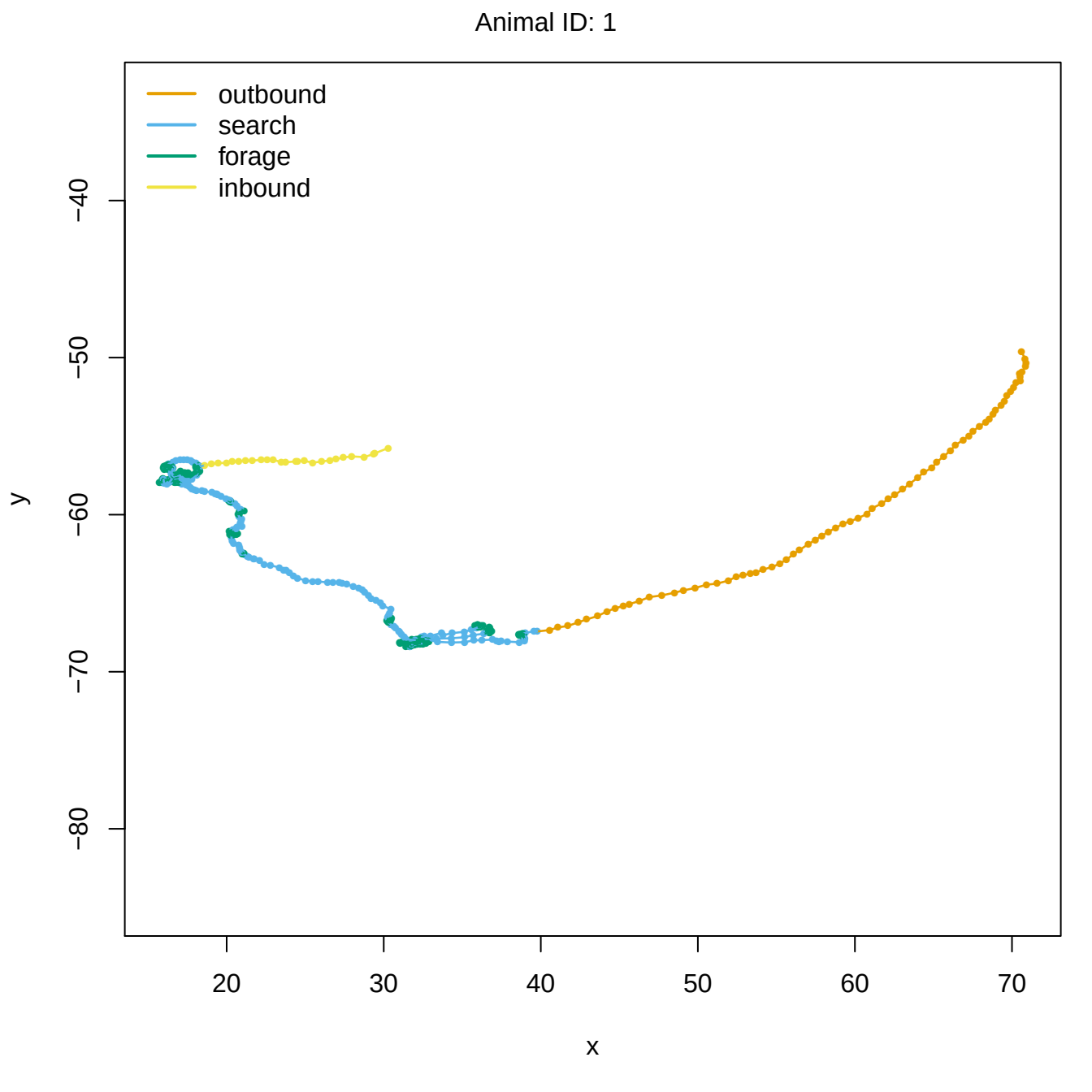

inbound
angle mean parameter
0.4
0.2
0.0
−0.2
−0.4
−3
−2
−1
0
1
2
3
colony.angle

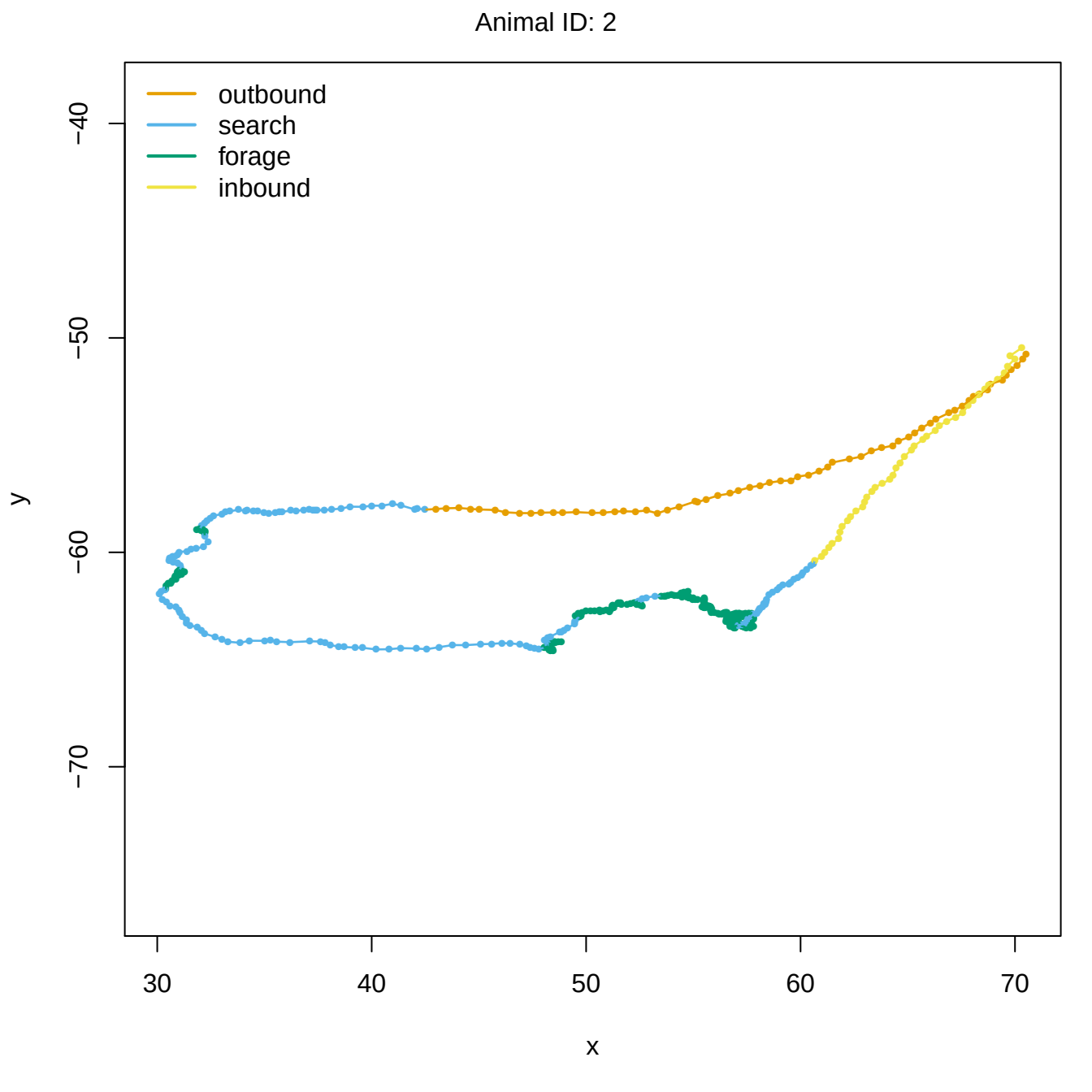

inbound
angle concentration parameter
10
15
20
25
−2
−1
0
1
2
colony.dist

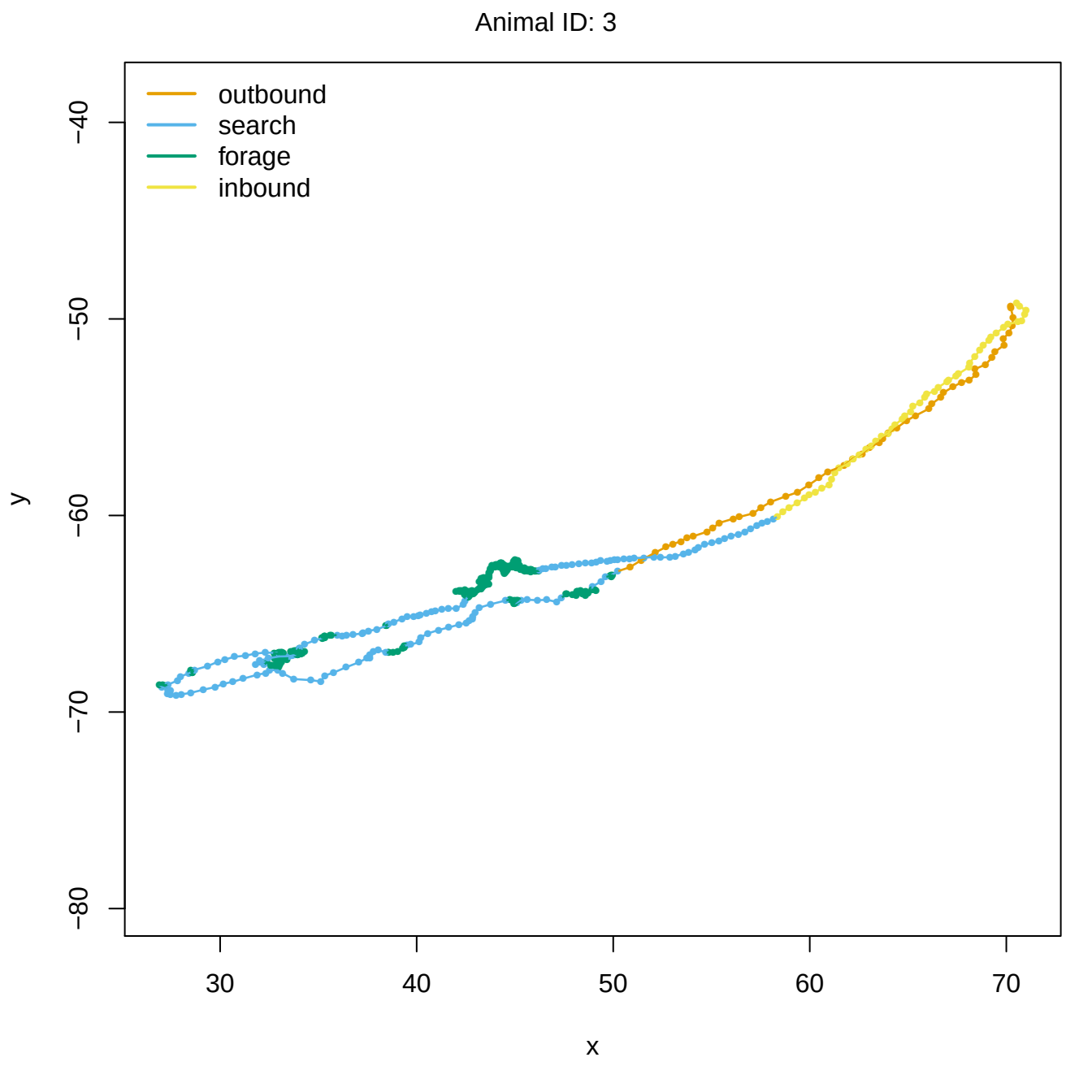

All animals: colony.angle = −0.12, colony.dist = −2.41
outbound
search
forage
inbound
Total
Density
0.0
0.1
0.2
0.3
0.4
0.5
0.6
−π
−π/2
0
π/2
π
angle (radians)

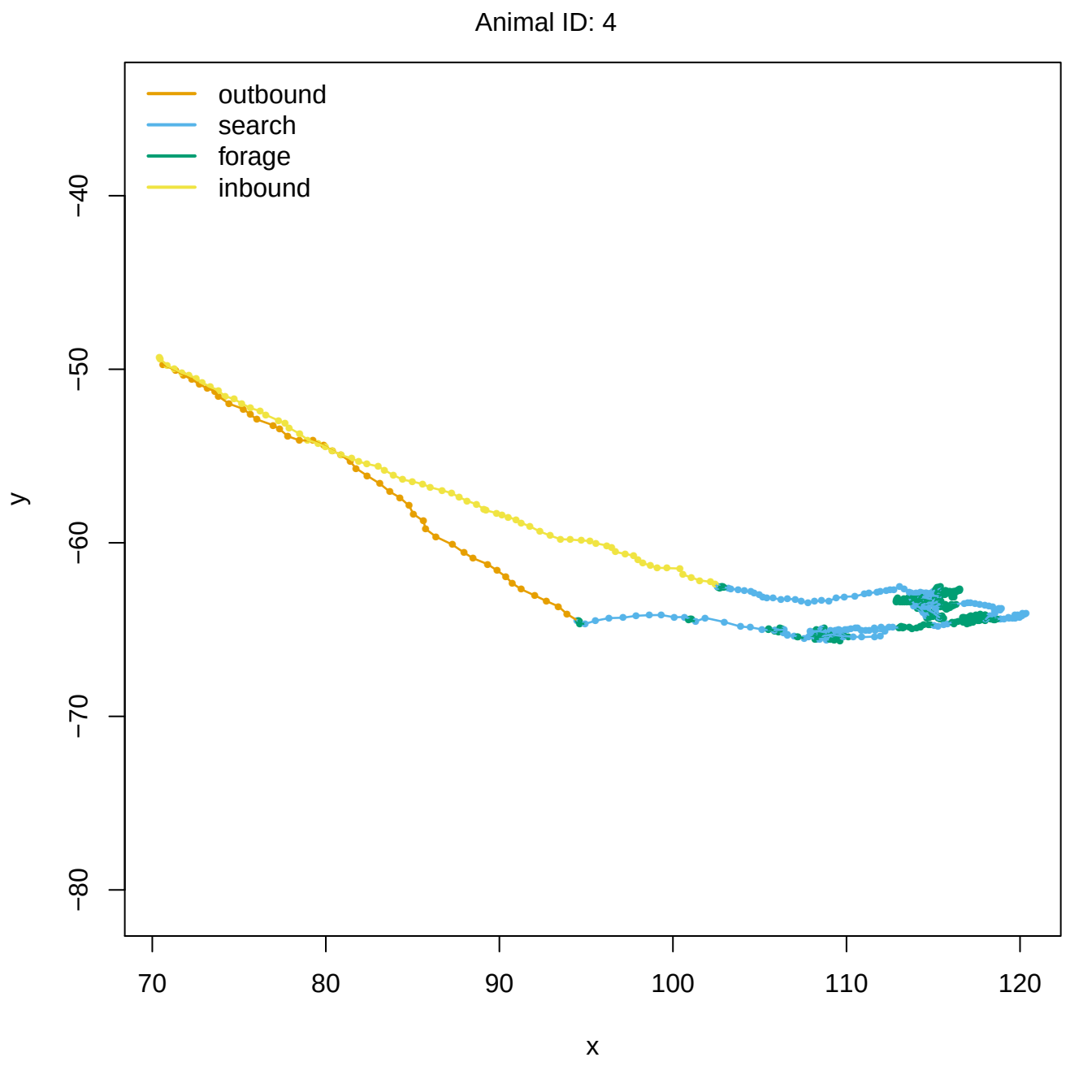

Transition probabilities: time = 3.53
1 -> 1
1 -> 2
1 -> 3
1 -> 4
2 -> 1
2 -> 2
2 -> 3
2 -> 4
3 -> 1
3 -> 2
3 -> 3
3 -> 4
4 -> 1
4 -> 2
4 -> 3
4 -> 4
0.0
0.4
0.8
−2
−1
0
1
2
colony.dist

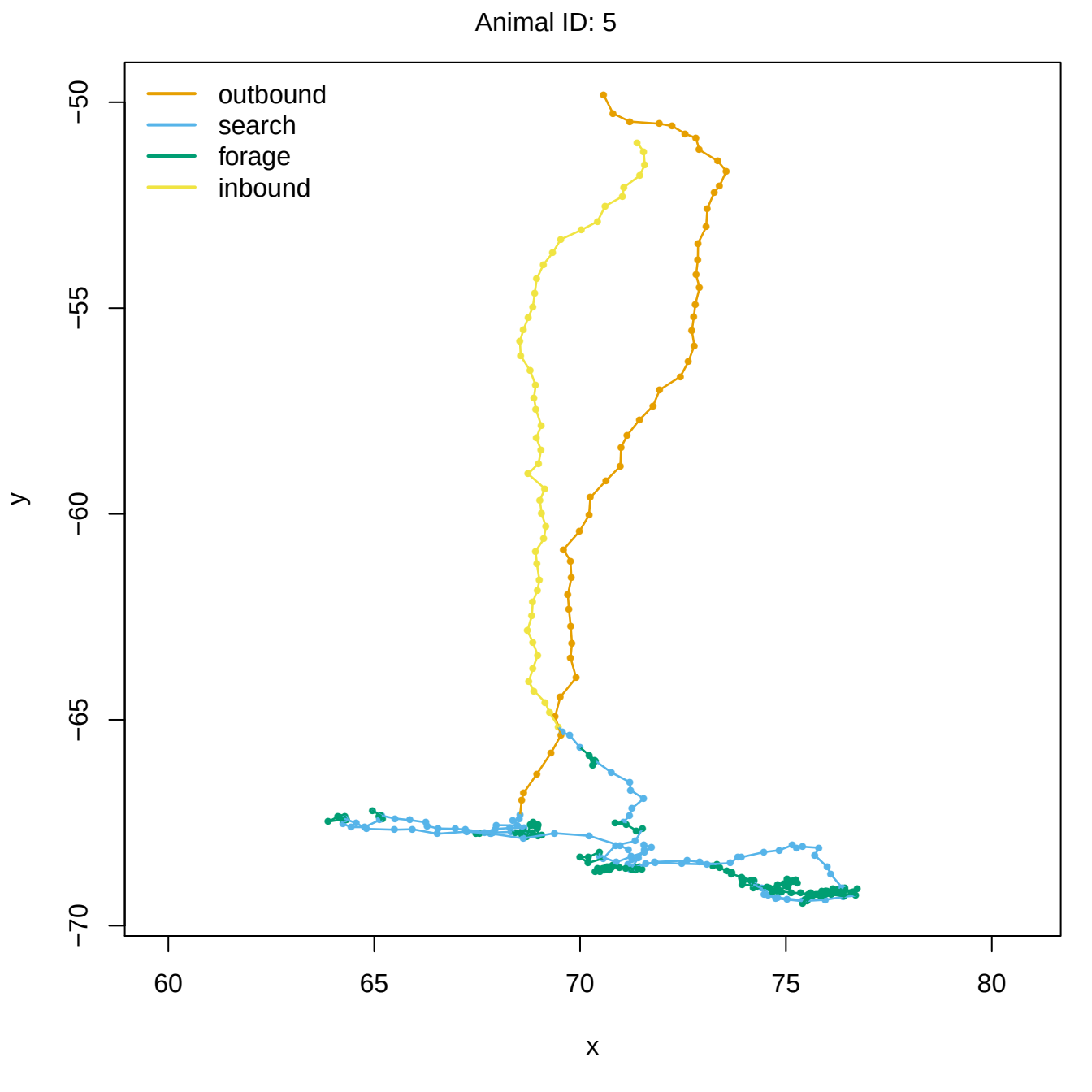

Transition probabilities: colony.dist = −2.41
1 -> 1
1 -> 2
1 -> 3
1 -> 4
2 -> 1
2 -> 2
2 -> 3
2 -> 4
3 -> 1
3 -> 2
3 -> 3
3 -> 4
4 -> 1
4 -> 2
4 -> 3
4 -> 4
0.0
0.4
0.8
0
2
4
6
8
time

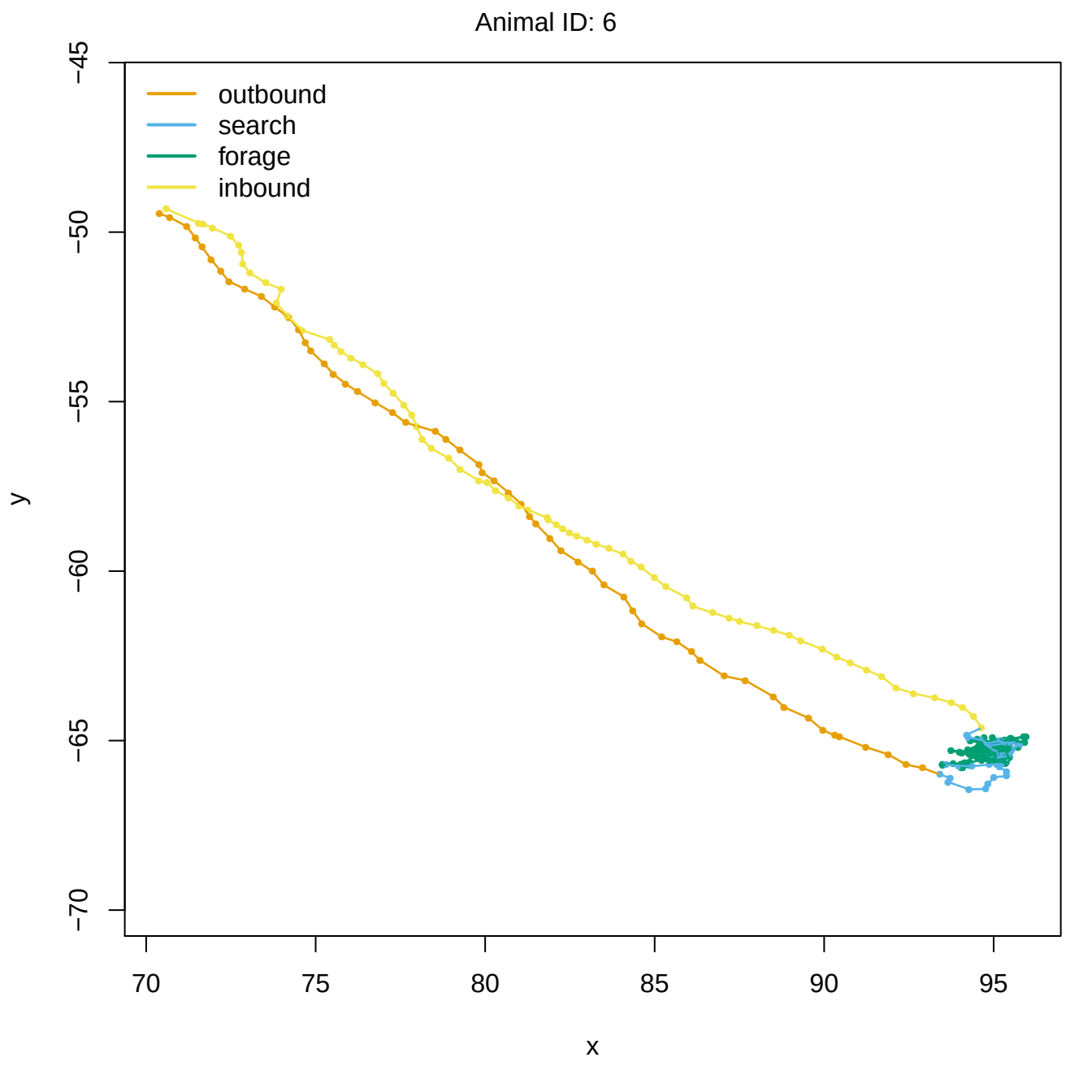

Animal ID: 1
outbound
search
forage
inbound
−40
−50
−60
−70
−80
y
20
30
40
50
60
70
x

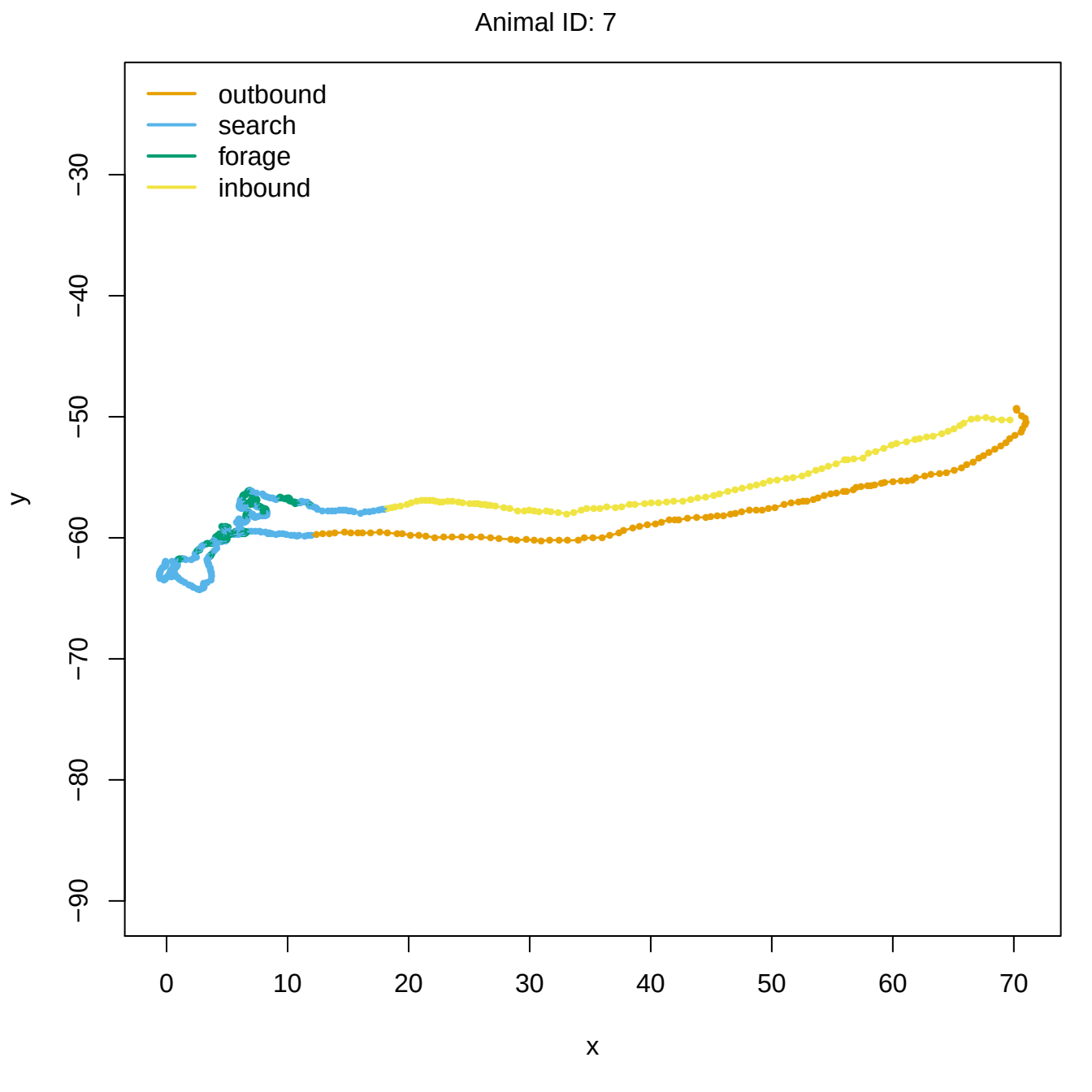

Animal ID: 2
outbound
search
forage
inbound
−40
−50
−60
−70
y
30
40
50
60
70
x

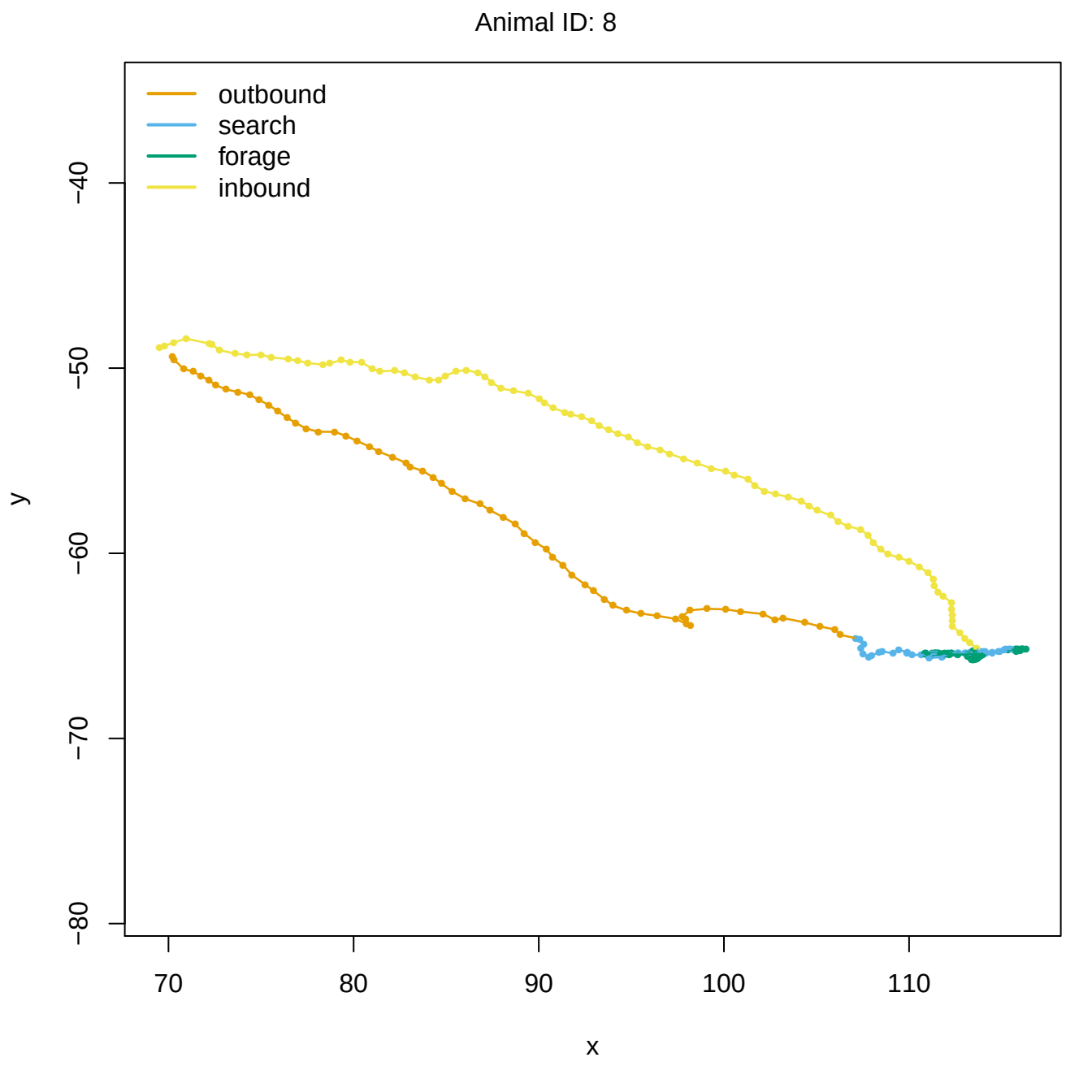

Animal ID: 3
outbound
search
forage
inbound
−40
−50
−60
−70
−80
y
30
40
50
60
70
x

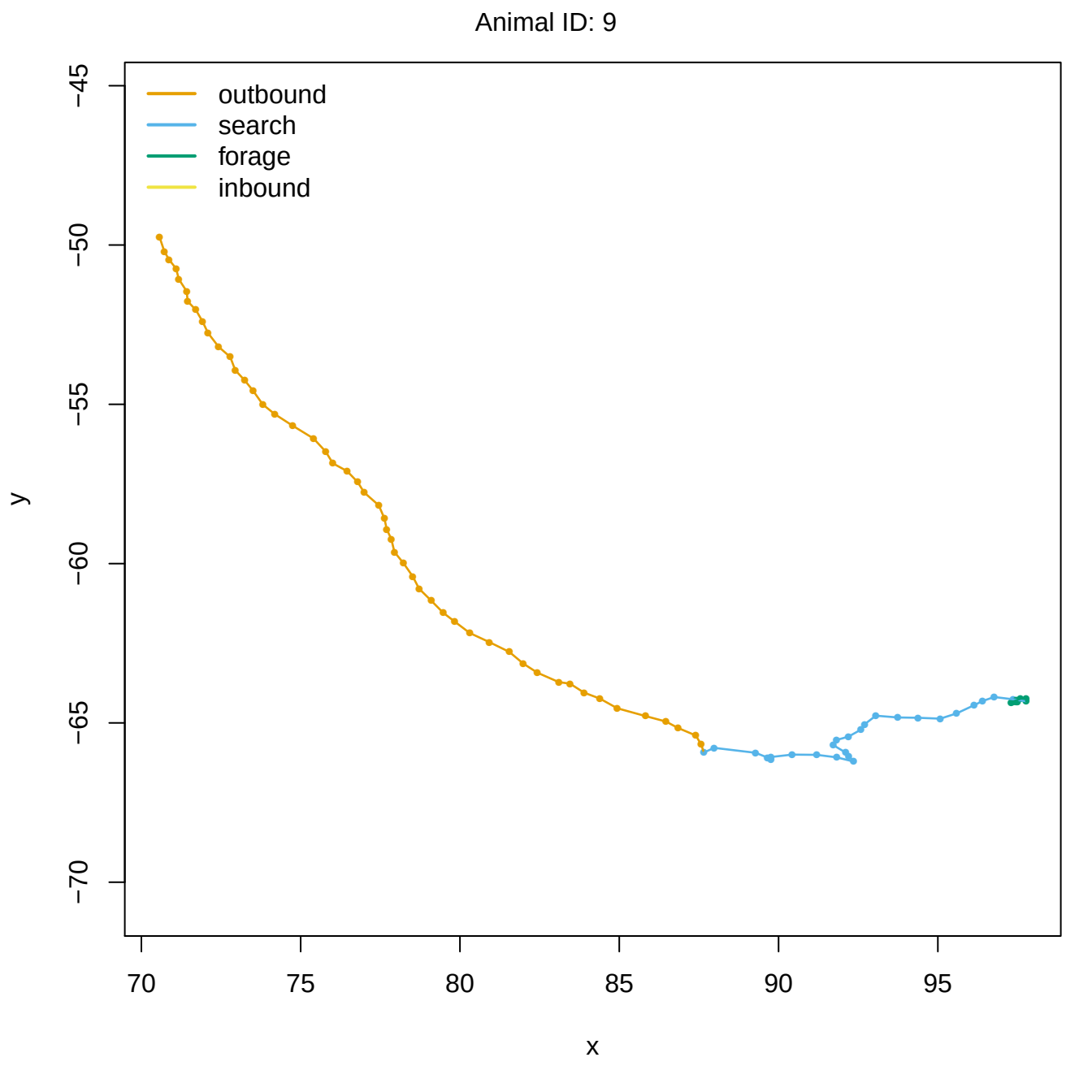

Animal ID: 4
outbound
search
forage
inbound
−40
−50
−60
−70
−80
y
70
80
90
100
110
120
x

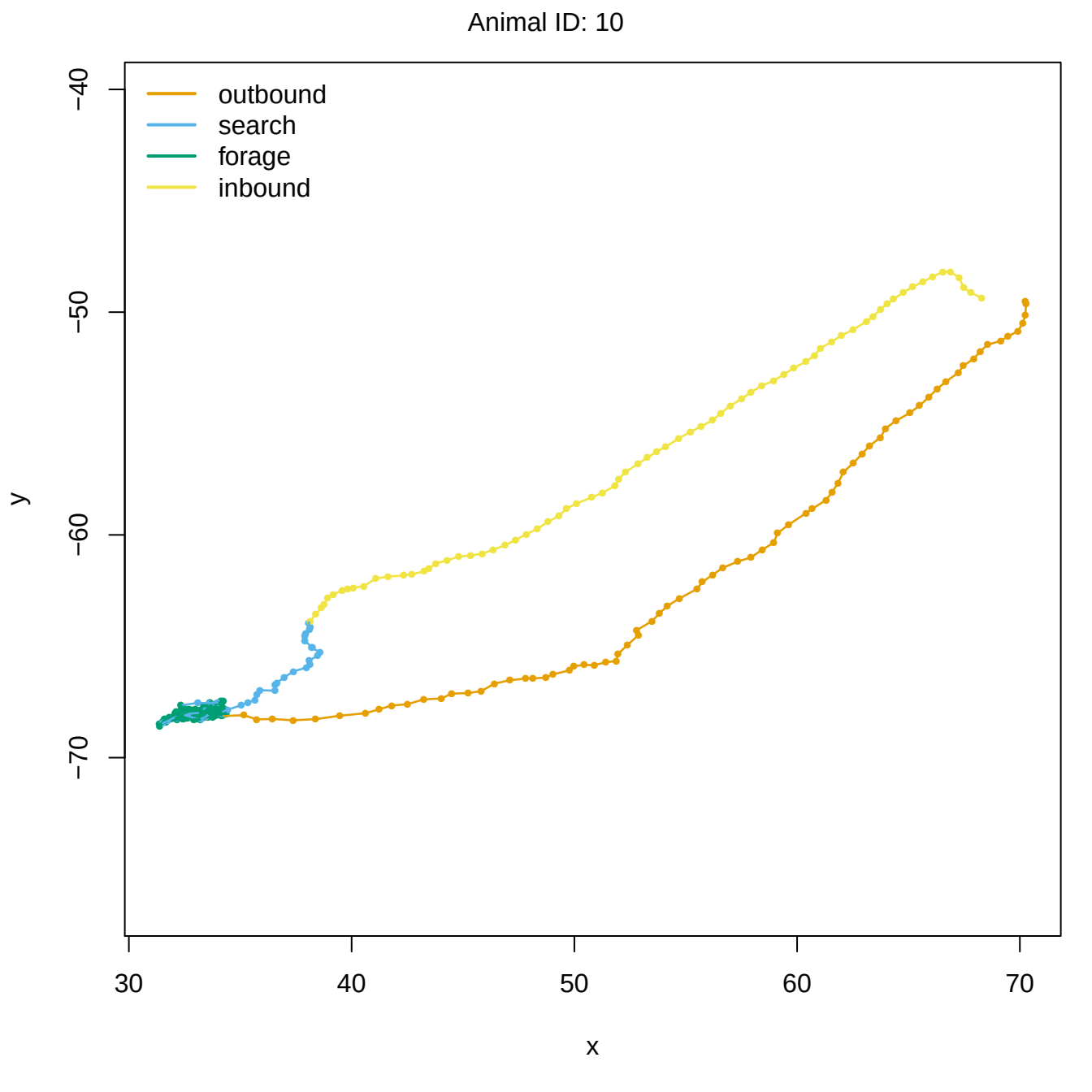

Animal ID: 5
outbound
search
forage
inbound
−50
−55
−60
−65
−70
y
60
65
70
75
80
x

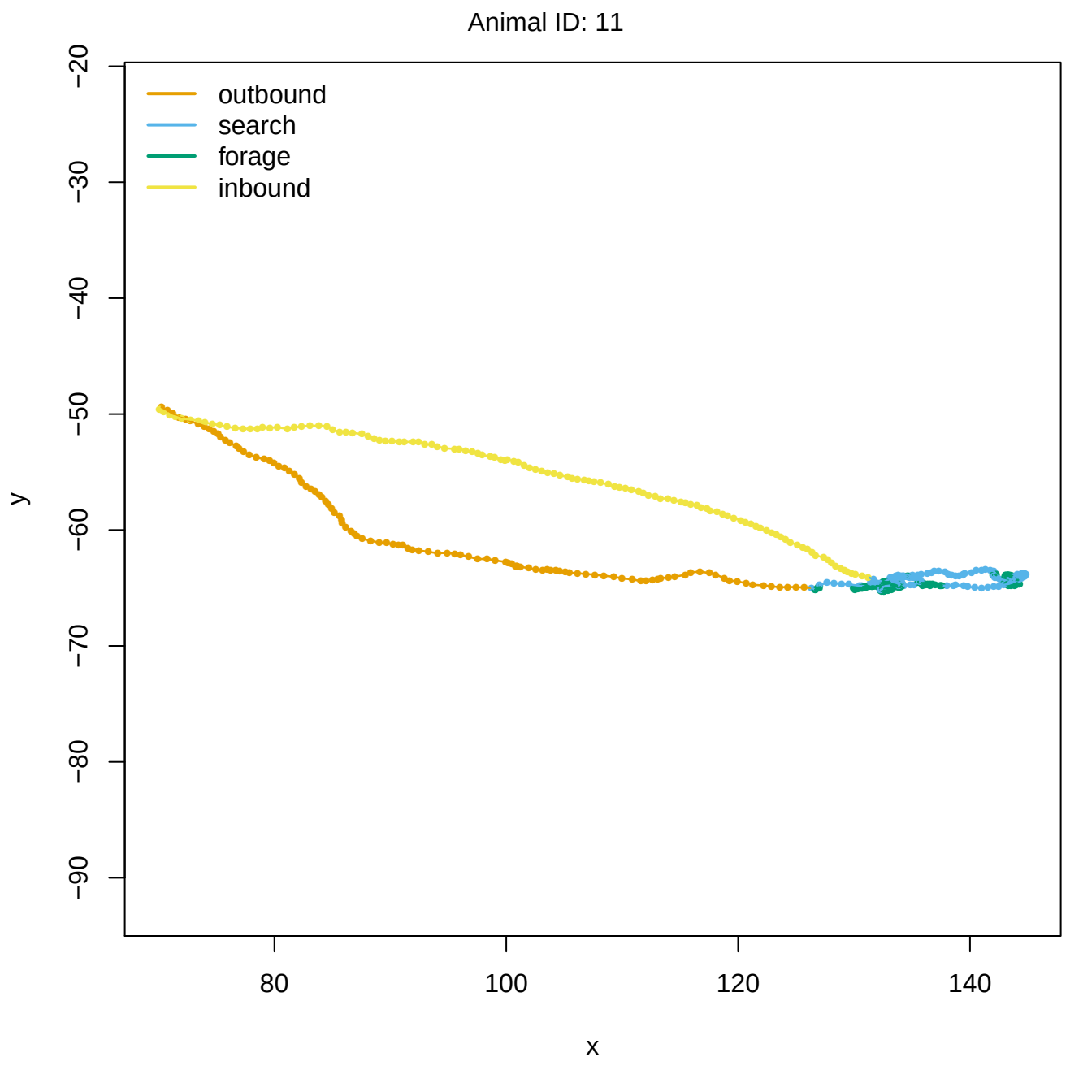

Animal ID: 6
outbound
search
forage
inbound
−45
−50
−55
−60
−65
−70
y
70
75
80
85
90
95
x

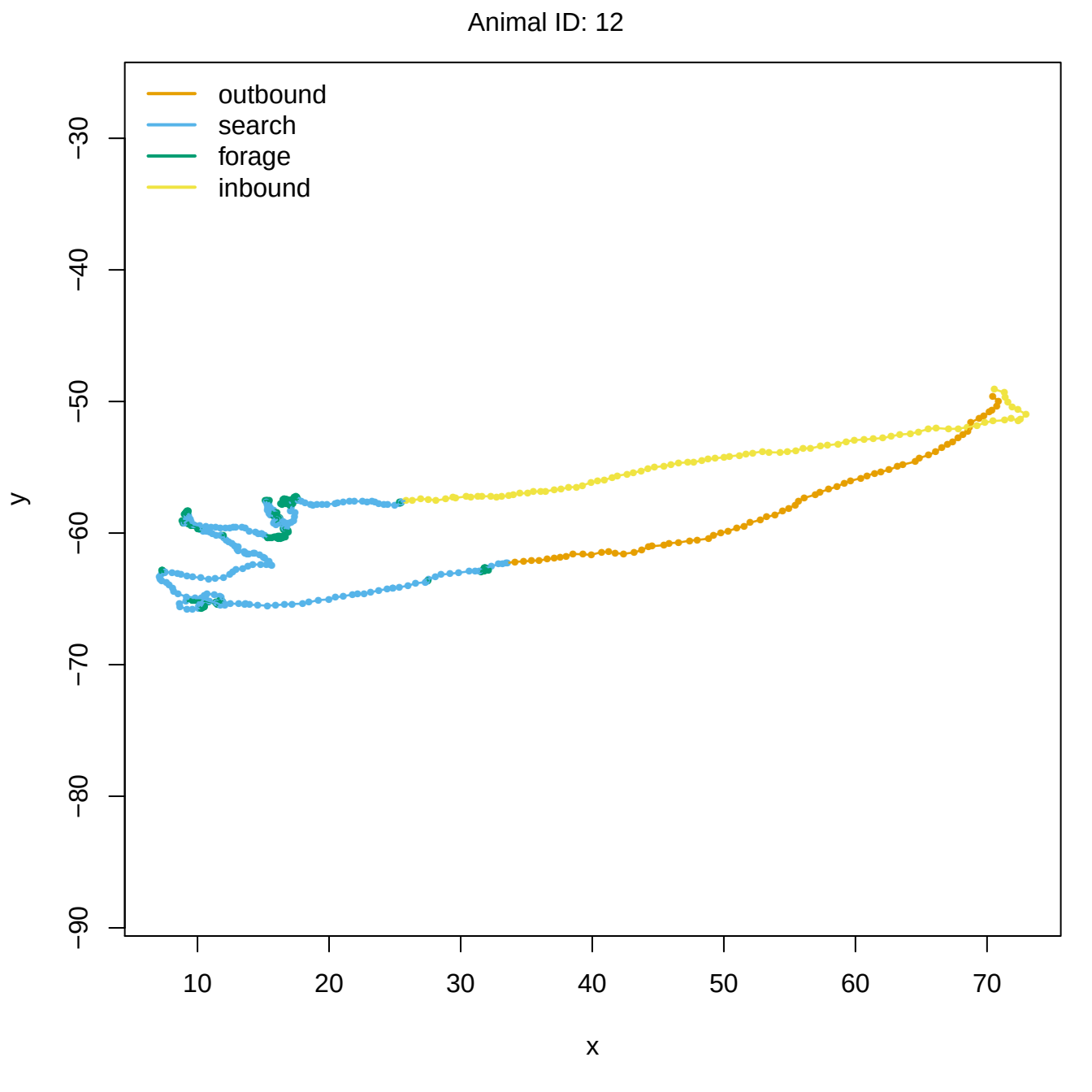

Animal ID: 7
outbound
search
forage
inbound
−30
−40
−50
−60
−70
−80
−90
y
0
10
20
30
40
50
60
70
x

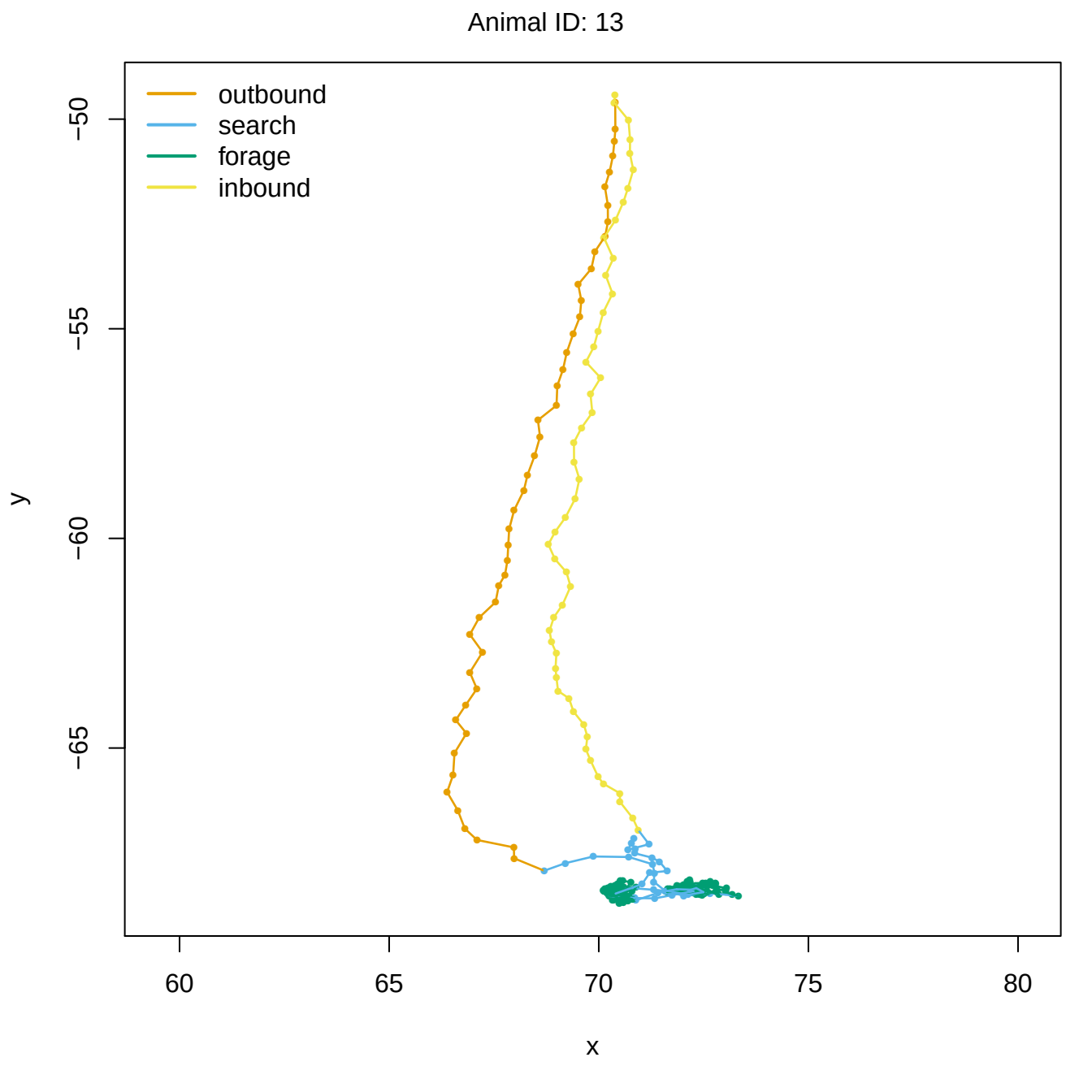

Animal ID: 8
outbound
search
forage
inbound
−40
−50
−60
−70
−80
y
70
80
90
100
110
x

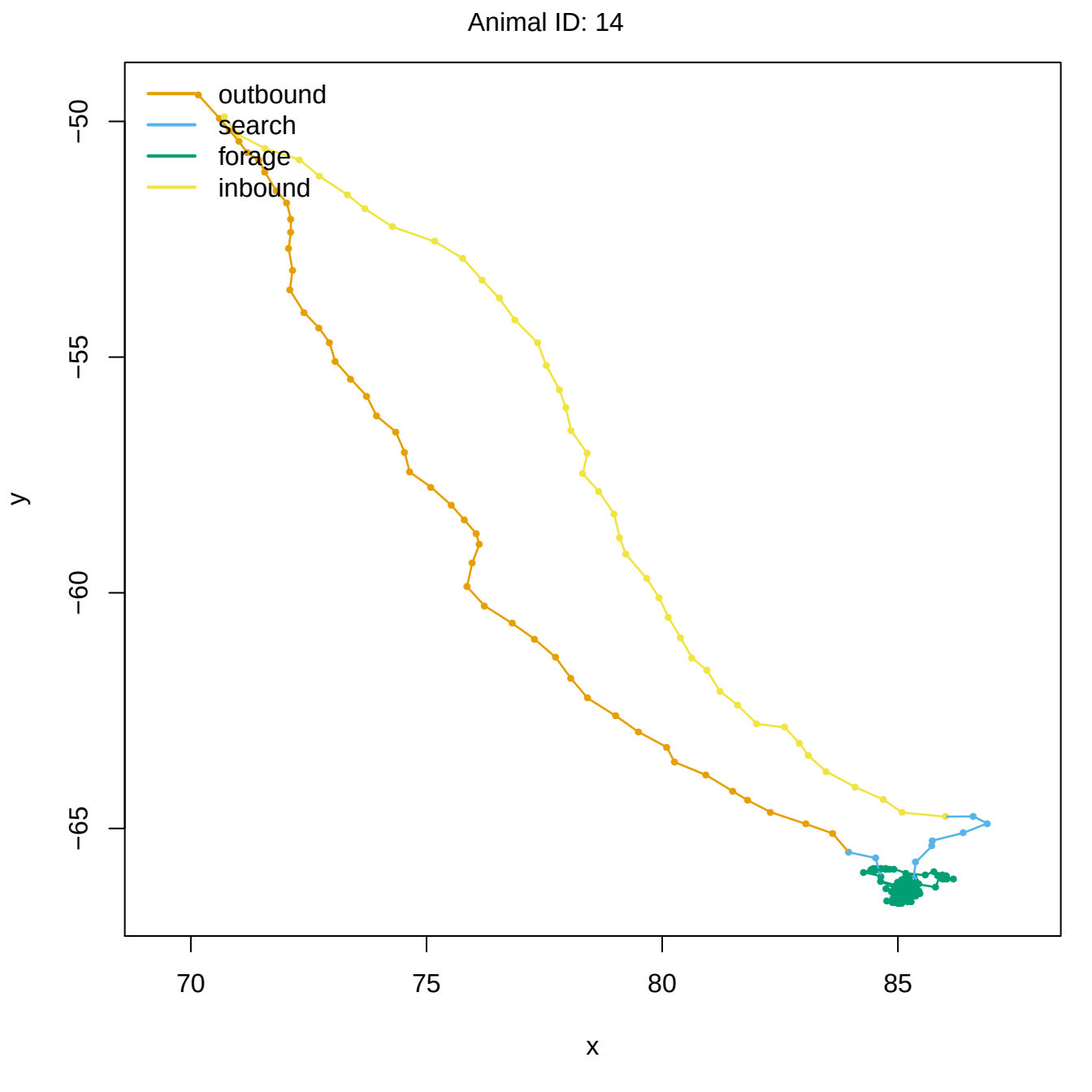

Animal ID: 9
outbound
search
forage
inbound
−45
−50
−55
−60
−65
−70
y
70
75
80
85
90
95
x

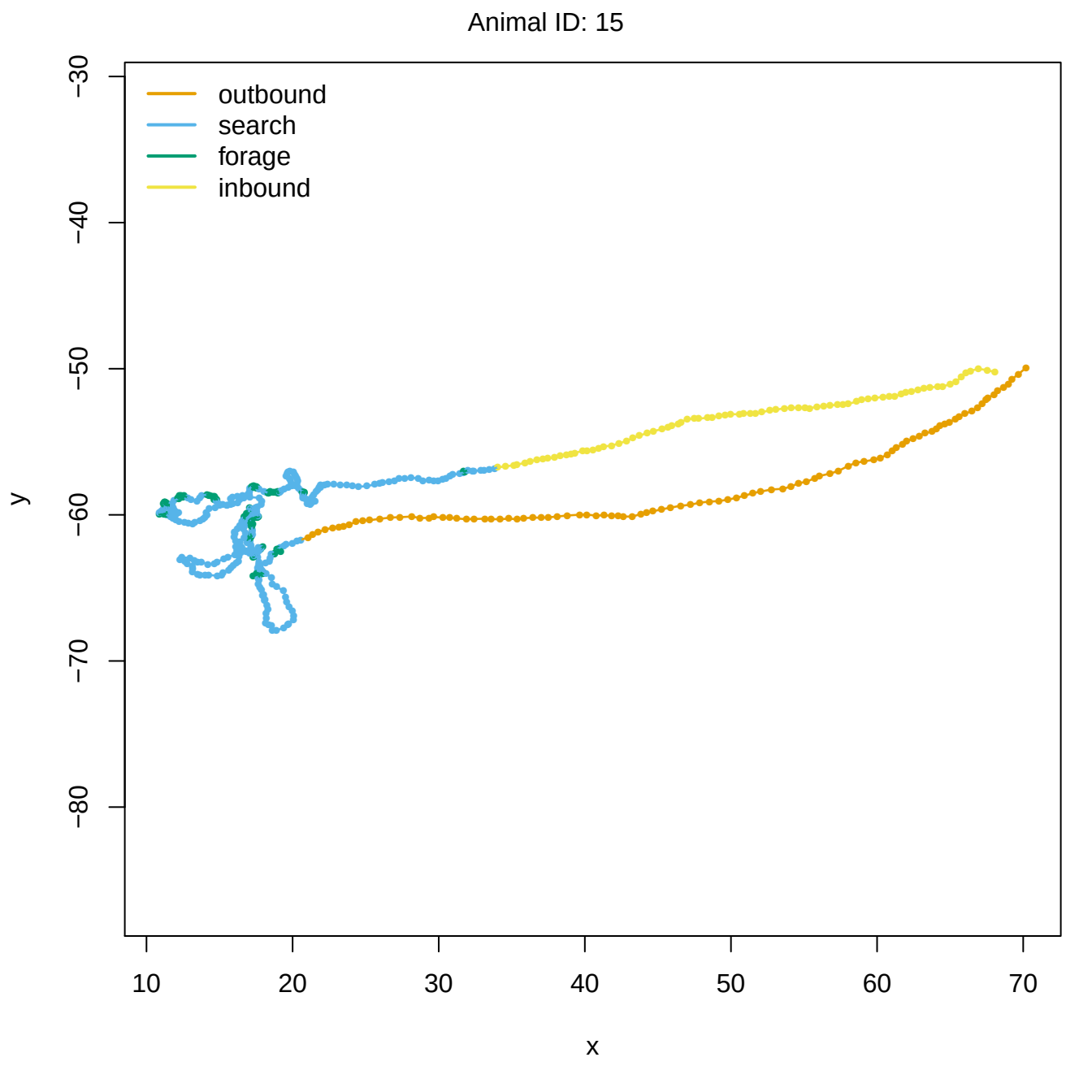

Animal ID: 10
outbound
search
forage
inbound
−40
−50
−60
−70
y
30
40
50
60
70
x


Animal ID: 11
outbound
search
forage
inbound
−20
−30
−40
−50
−60
−70
−80
−90
y
80
100
120
140
x


Animal ID: 12
outbound
search
forage
inbound
−30
−40
−50
−60
−70
−80
−90
y
10
20
30
40
50
60
70
x


Animal ID: 13
outbound
search
forage
inbound
−50
−55
−60
−65
y
60
65
70
75
80
x


Animal ID: 14
outbound
search
forage
inbound
−50
−55
−60
−65
y
70
75
80
85
x


Animal ID: 15
outbound
search
forage
inbound
−30
−40
−50
−60
−70
−80
y
10
20
30
40
50
60
70
x