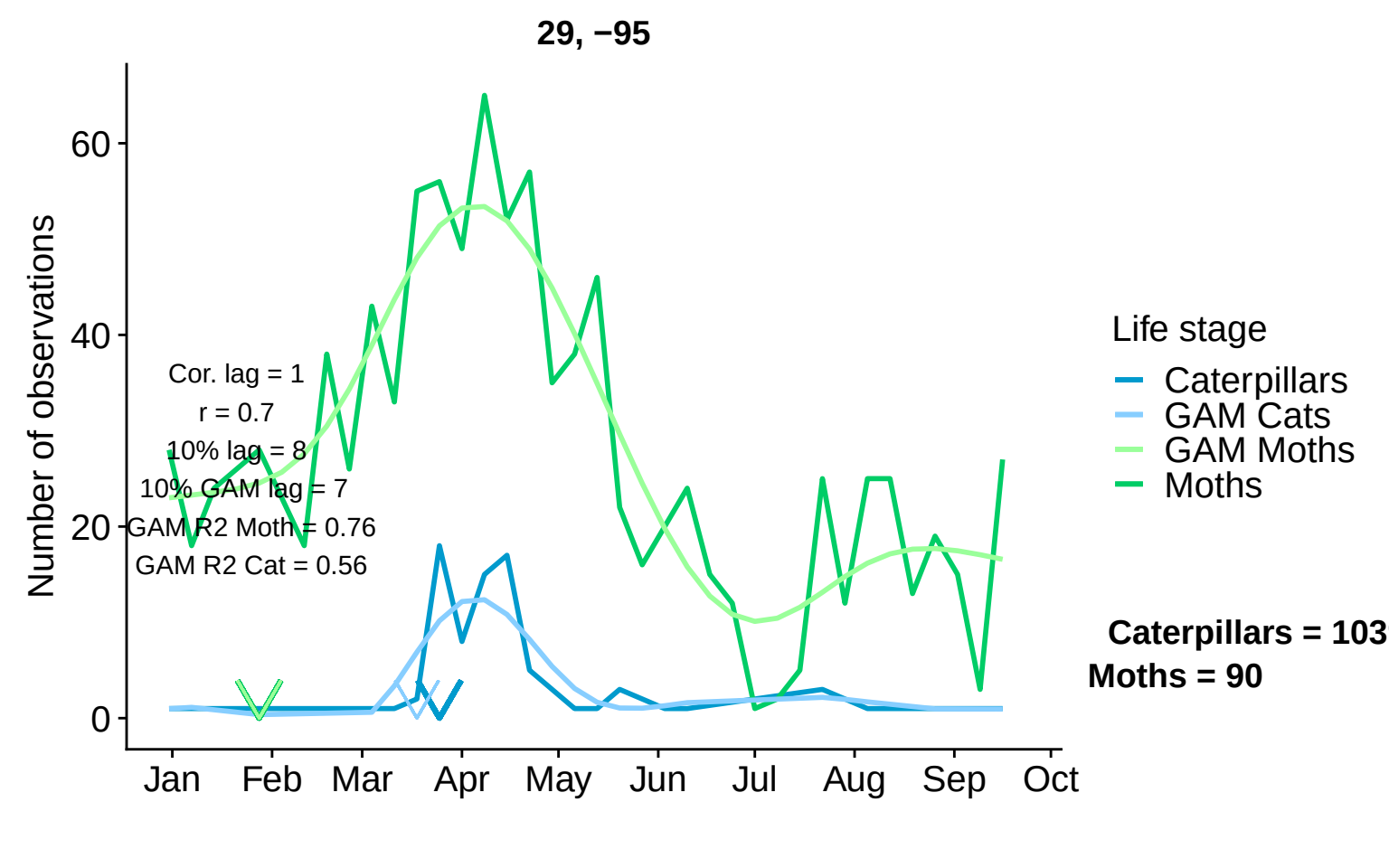
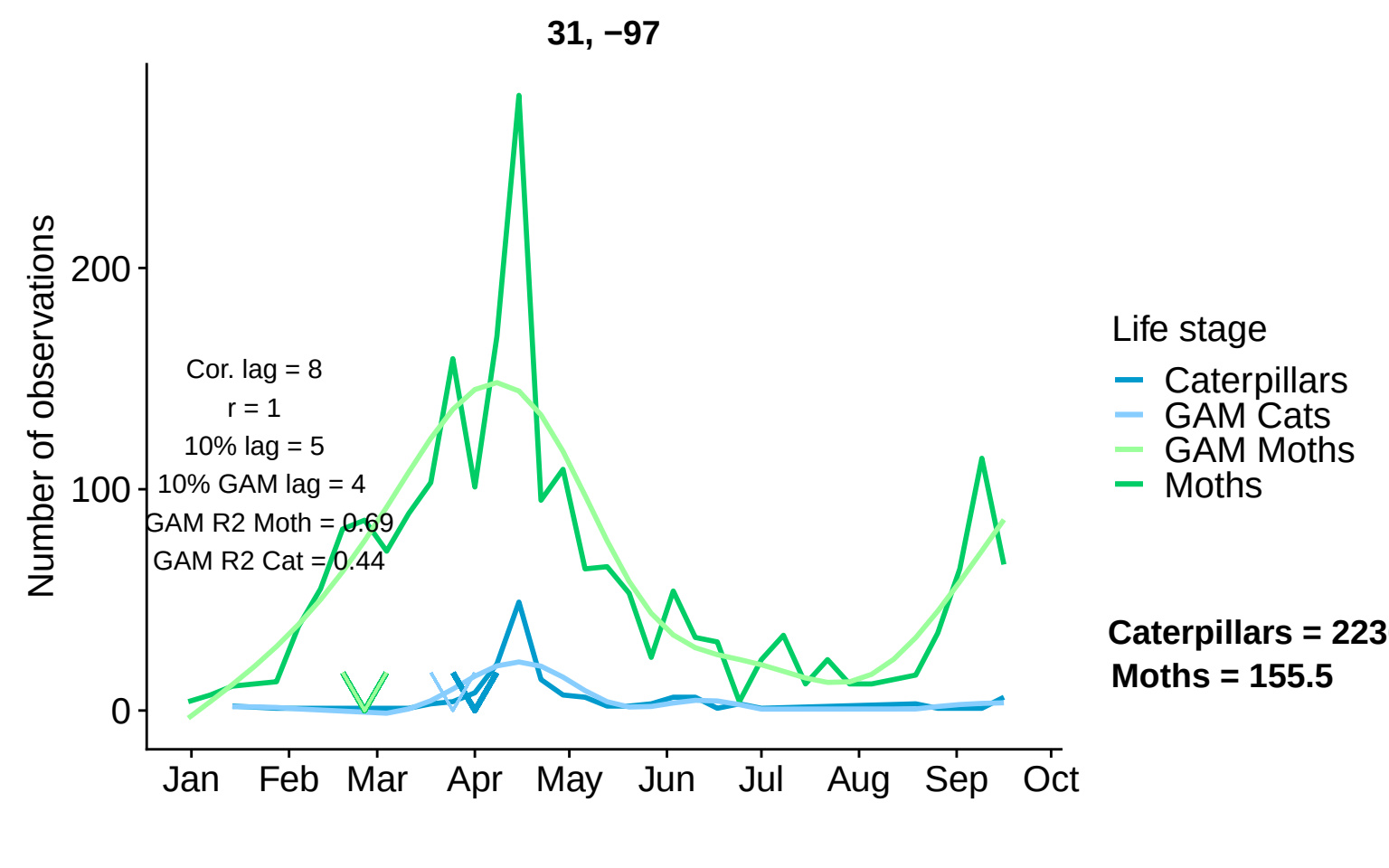
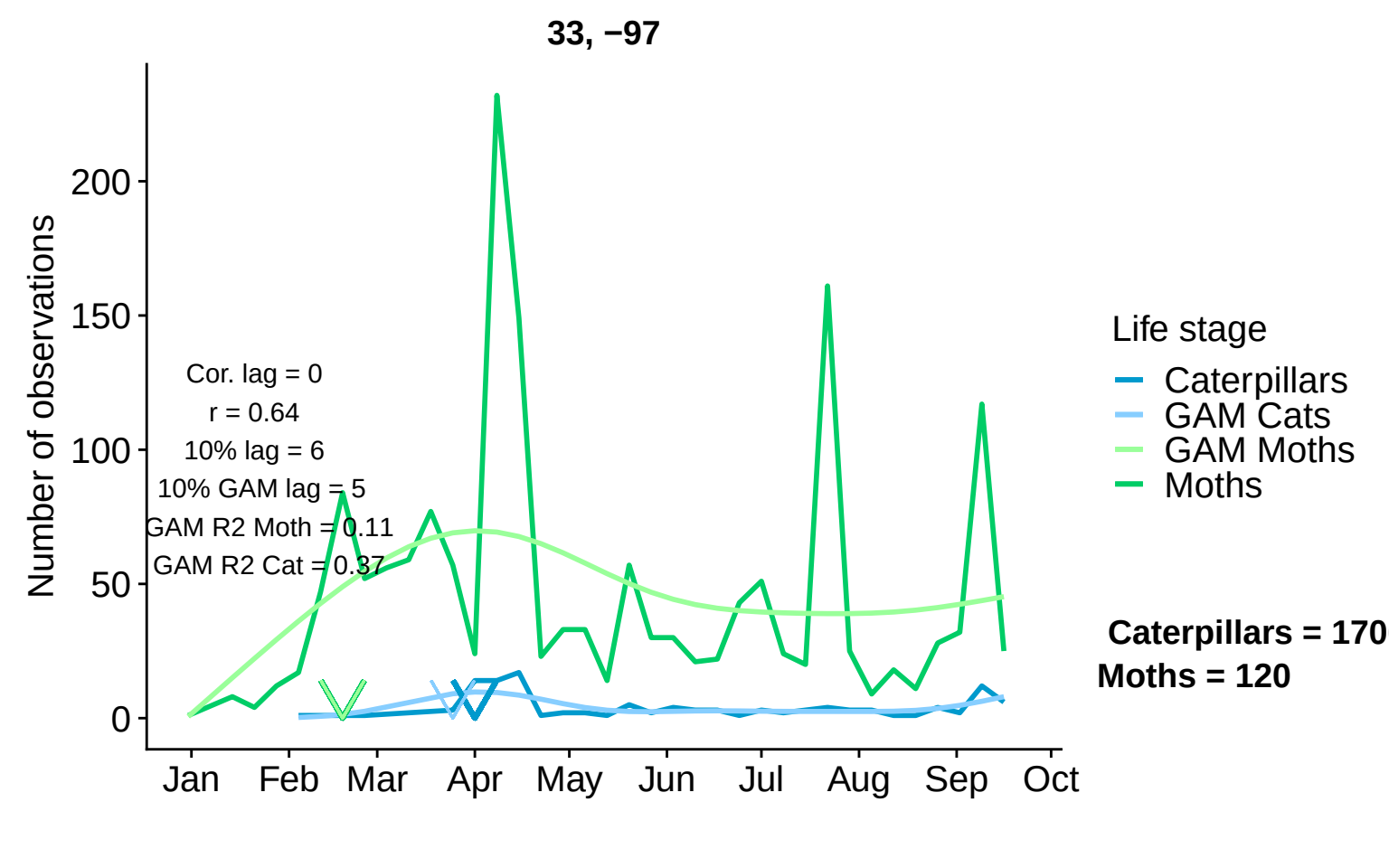
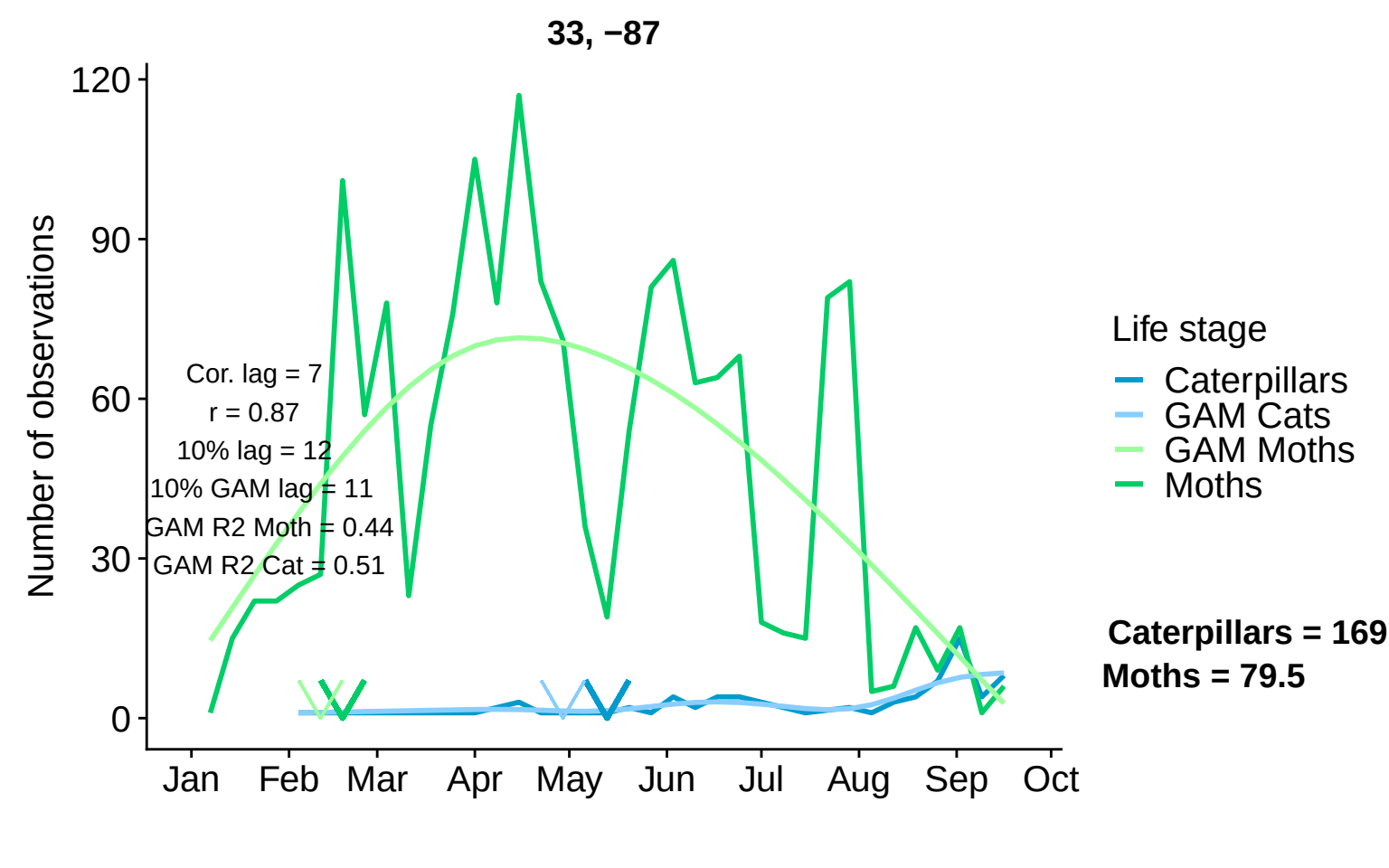
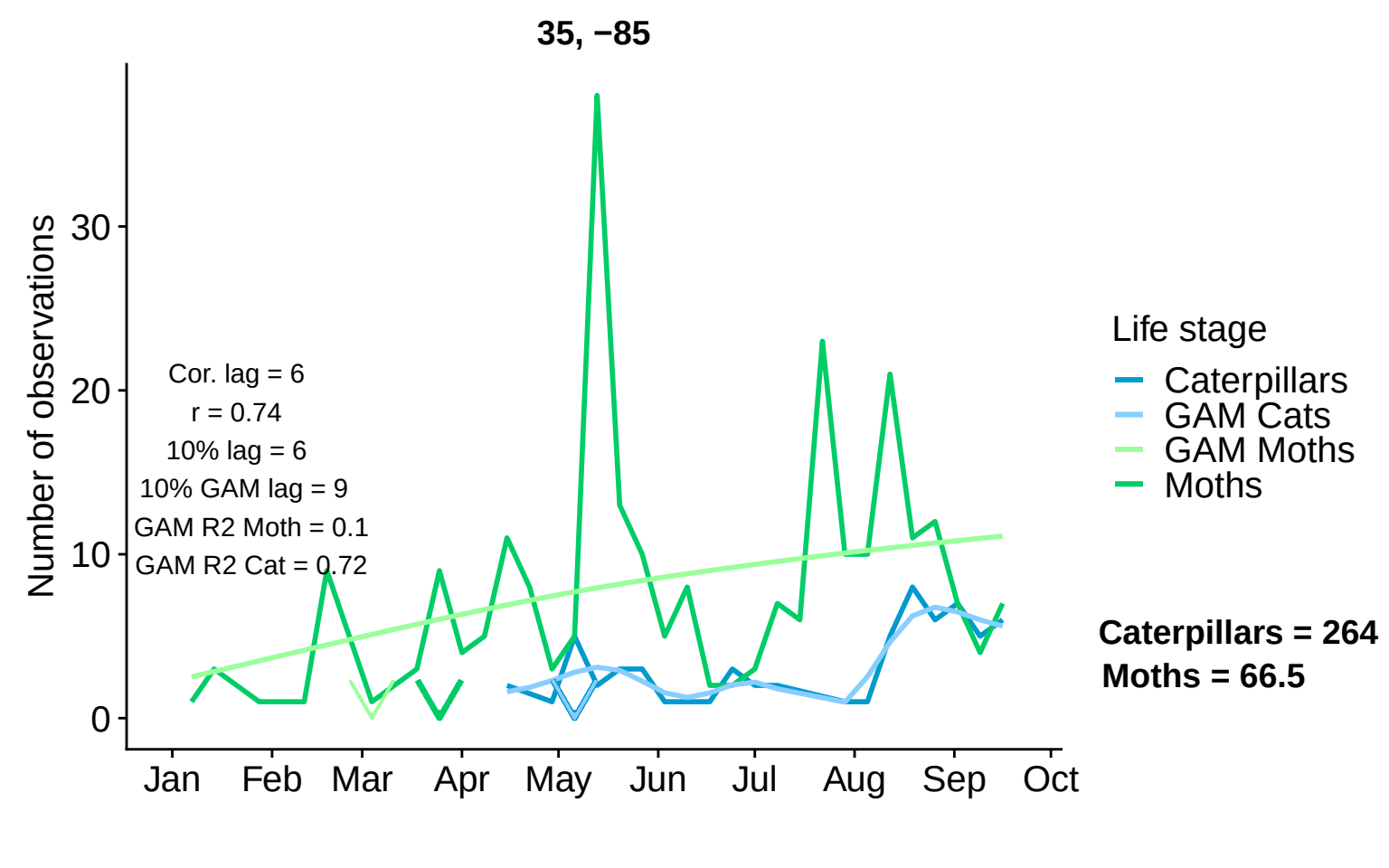
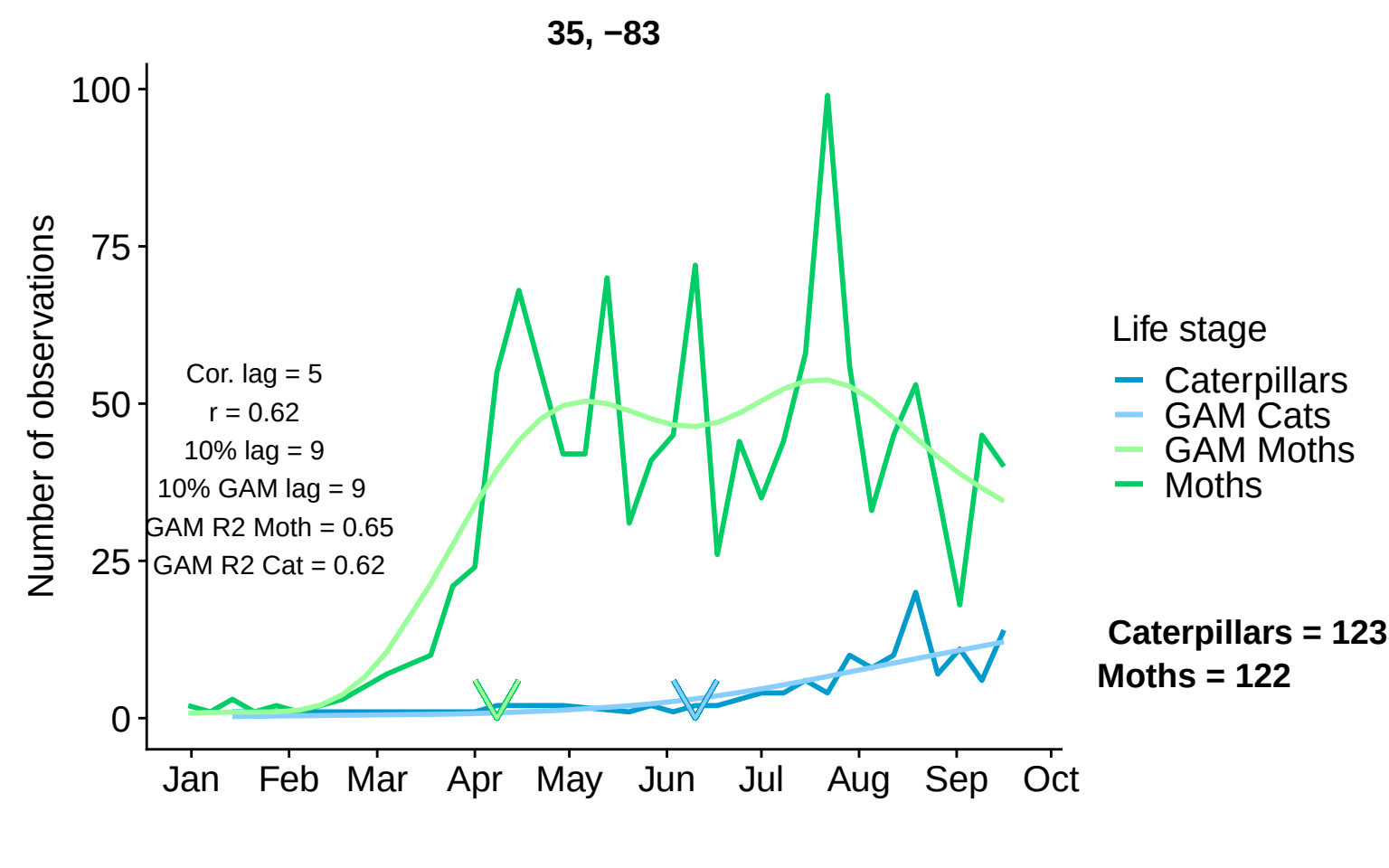

29, −95
Number of observations
60
40
20
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 1
r = 0.7
10% lag = 8
10% GAM lag = 7
GAM R2 Moth = 0.76
GAM R2 Cat = 0.56
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 103
Moths = 90

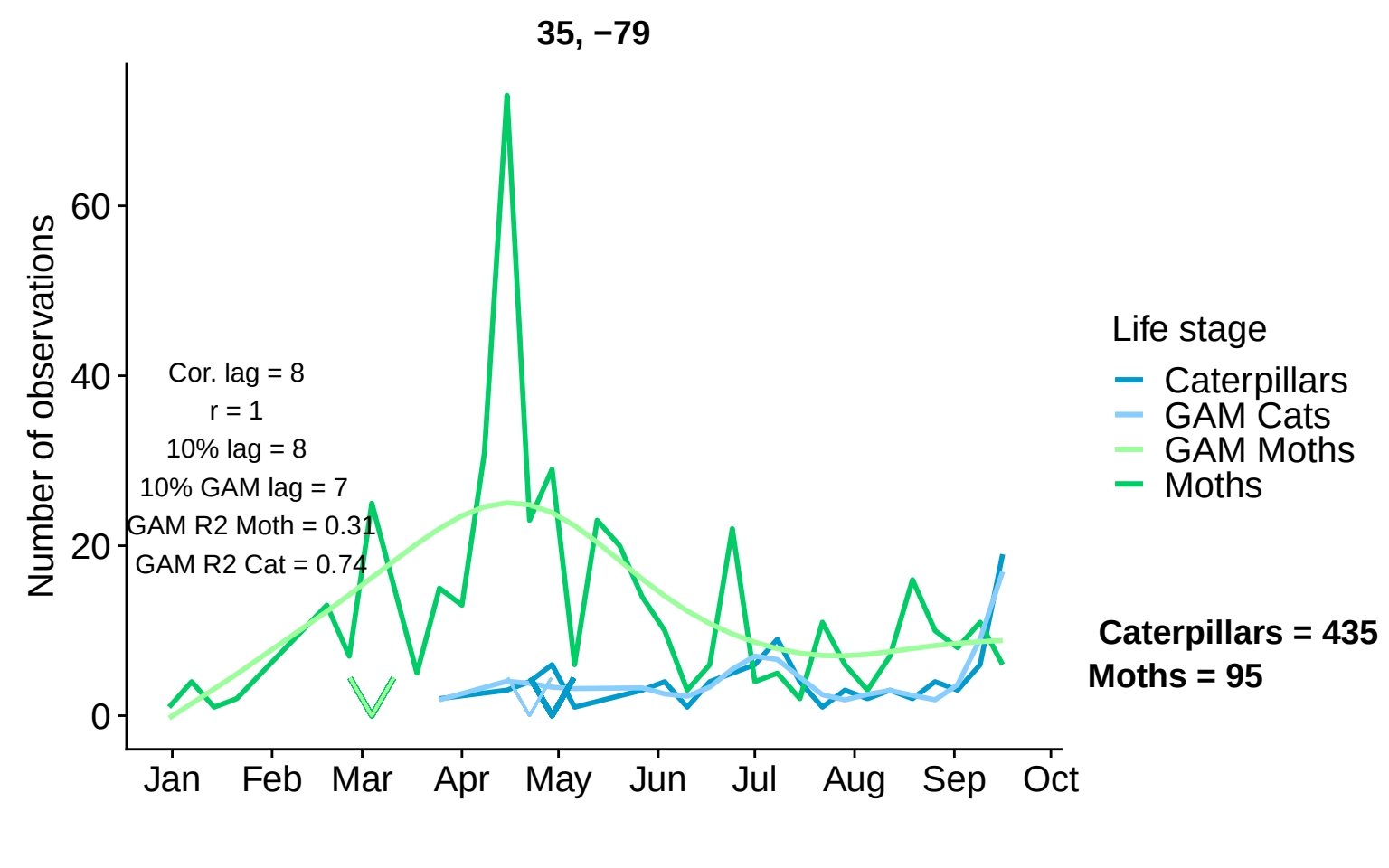

31, −97
Number of observations
200
100
0
Cor. lag = 8
r = 1
10% lag = 5
10% GAM lag = 4
GAM R2 Moth = 0.69
GAM R2 Cat = 0.44
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 223
Moths = 155.5

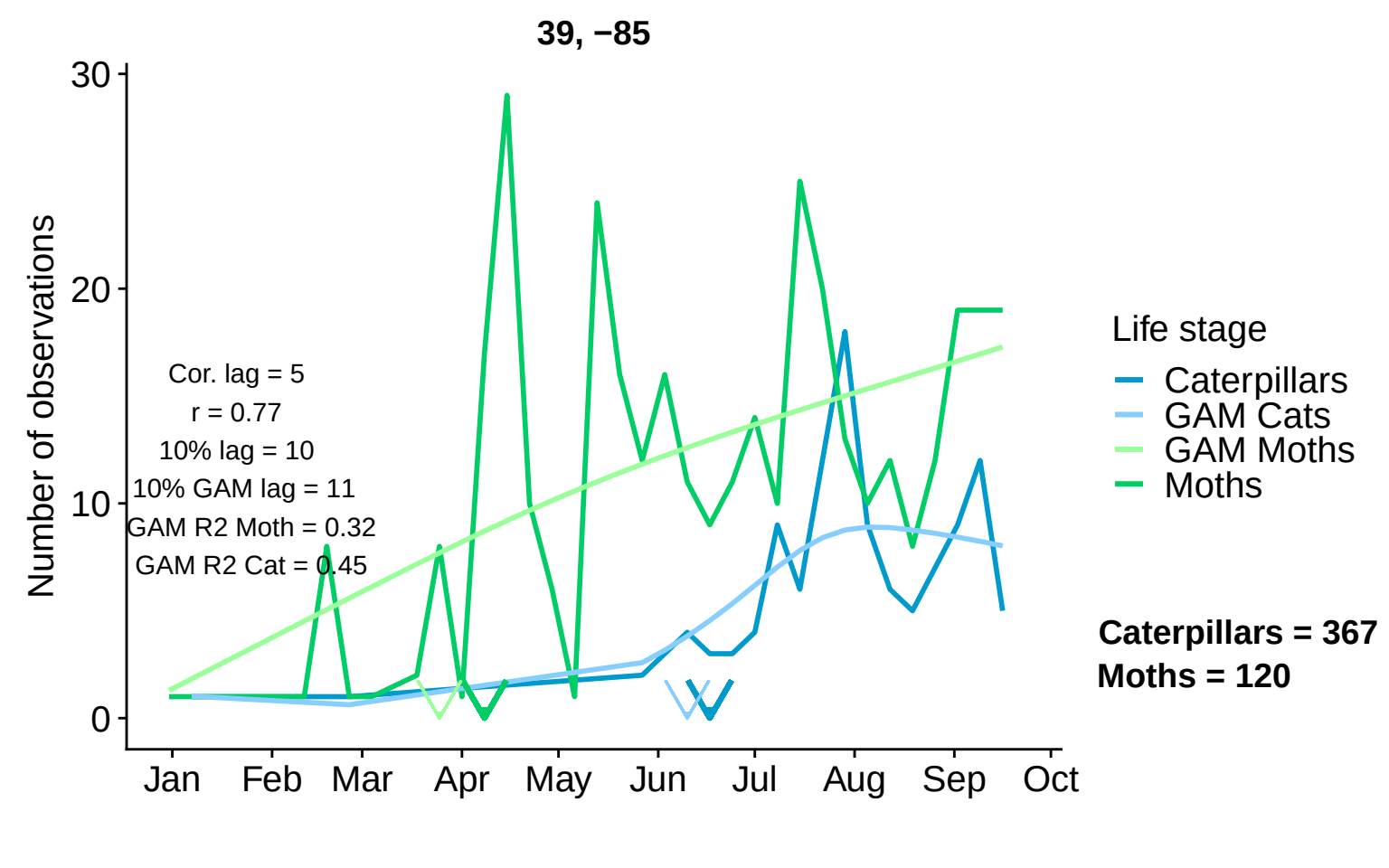

33, −97
Number of observations
200
150
100
50
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 0
r = 0.64
10% lag = 6
10% GAM lag = 5
GAM R2 Moth = 0.11
GAM R2 Cat = 0.37
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 170
Moths = 120

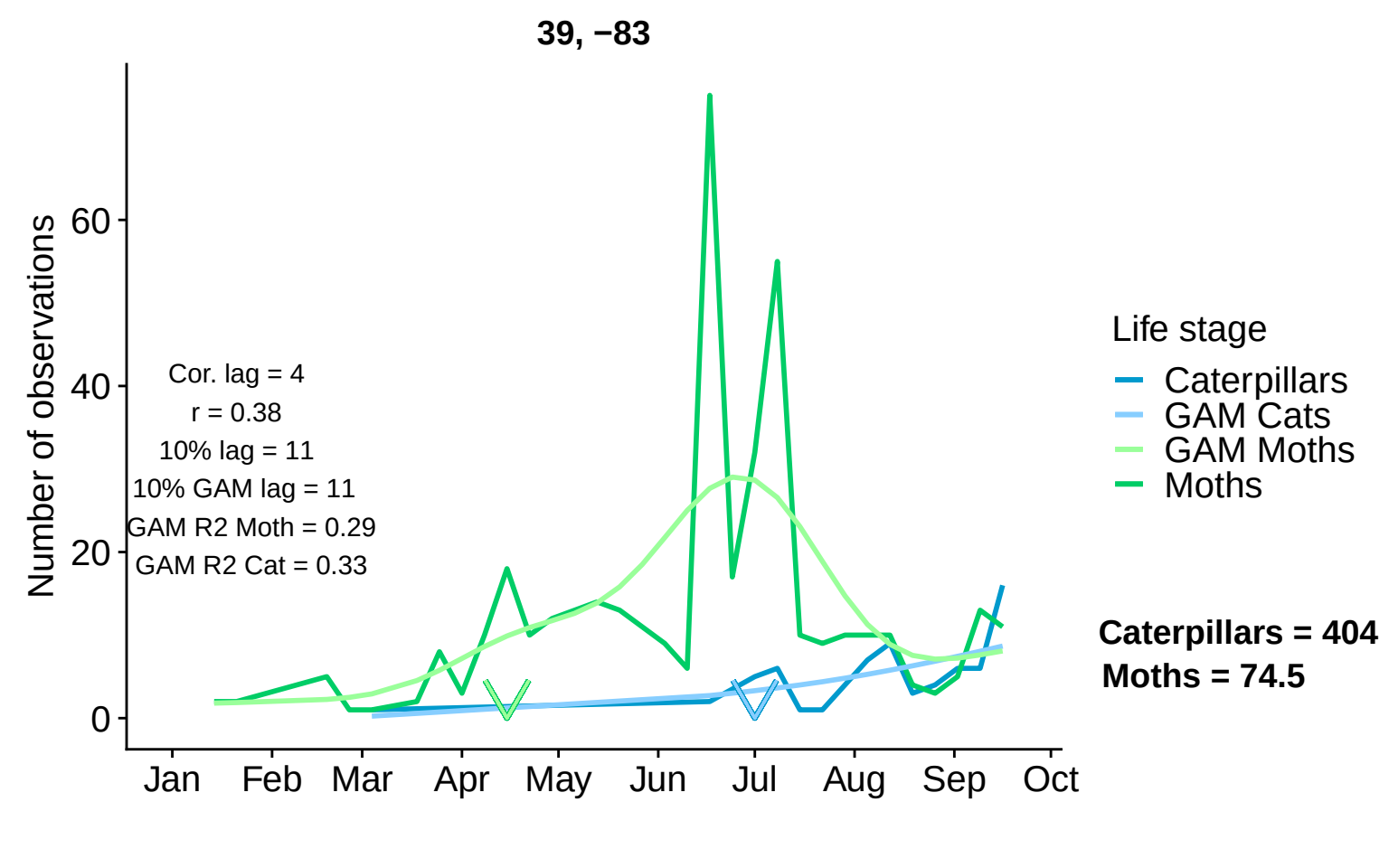

33, −87
120
90
60
30
0
Number of observations
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 7
r = 0.87
10% lag = 12
10% GAM lag = 11
GAM R2 Moth = 0.44
GAM R2 Cat = 0.51
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 169
Moths = 79.5

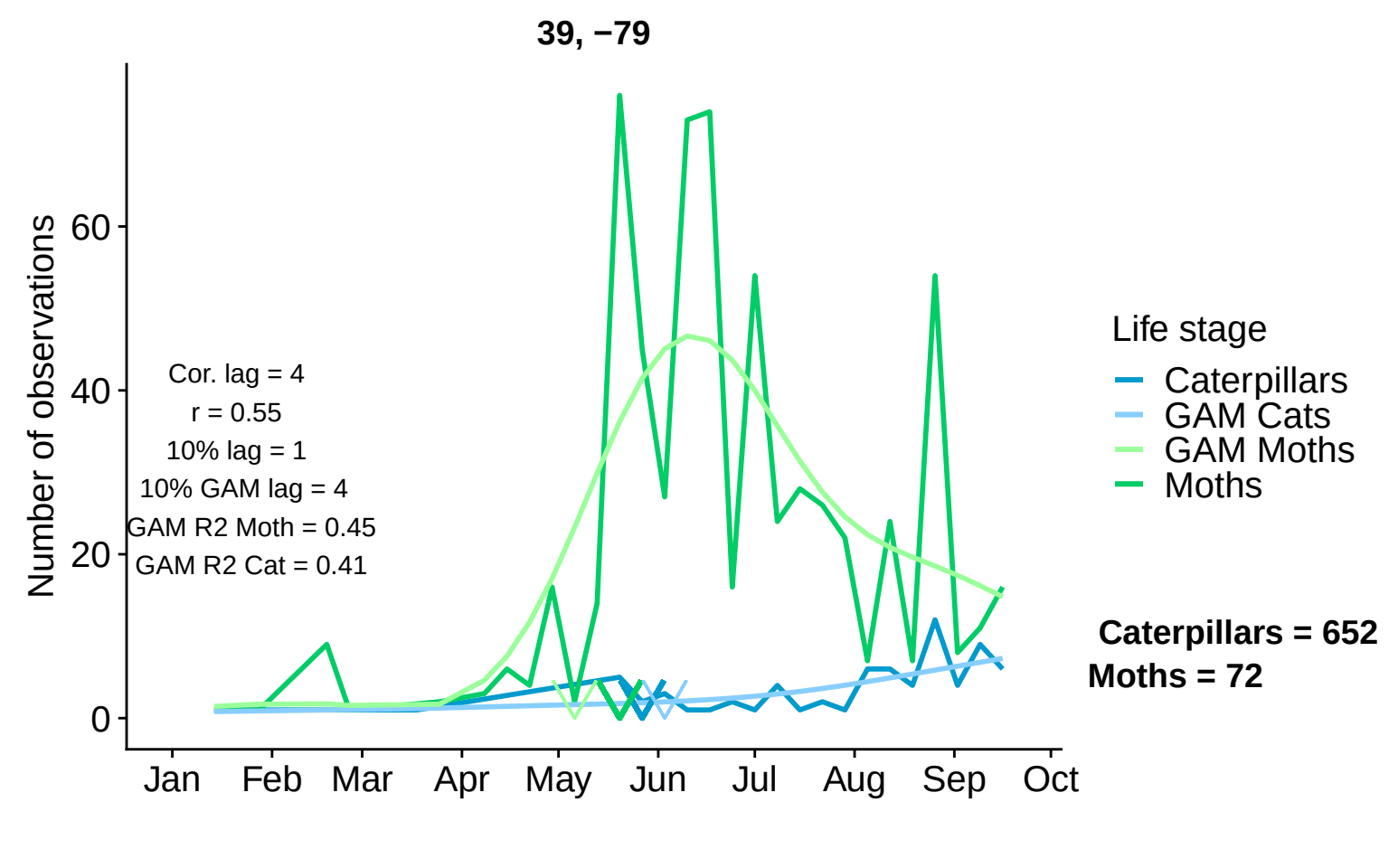

35, −85
Number of observations
0
10
20
30
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 6
r = 0.74
10% lag = 6
10% GAM lag = 9
GAM R2 Moth = 0.1
GAM R2 Cat = 0.72
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 264
Moths = 66.5

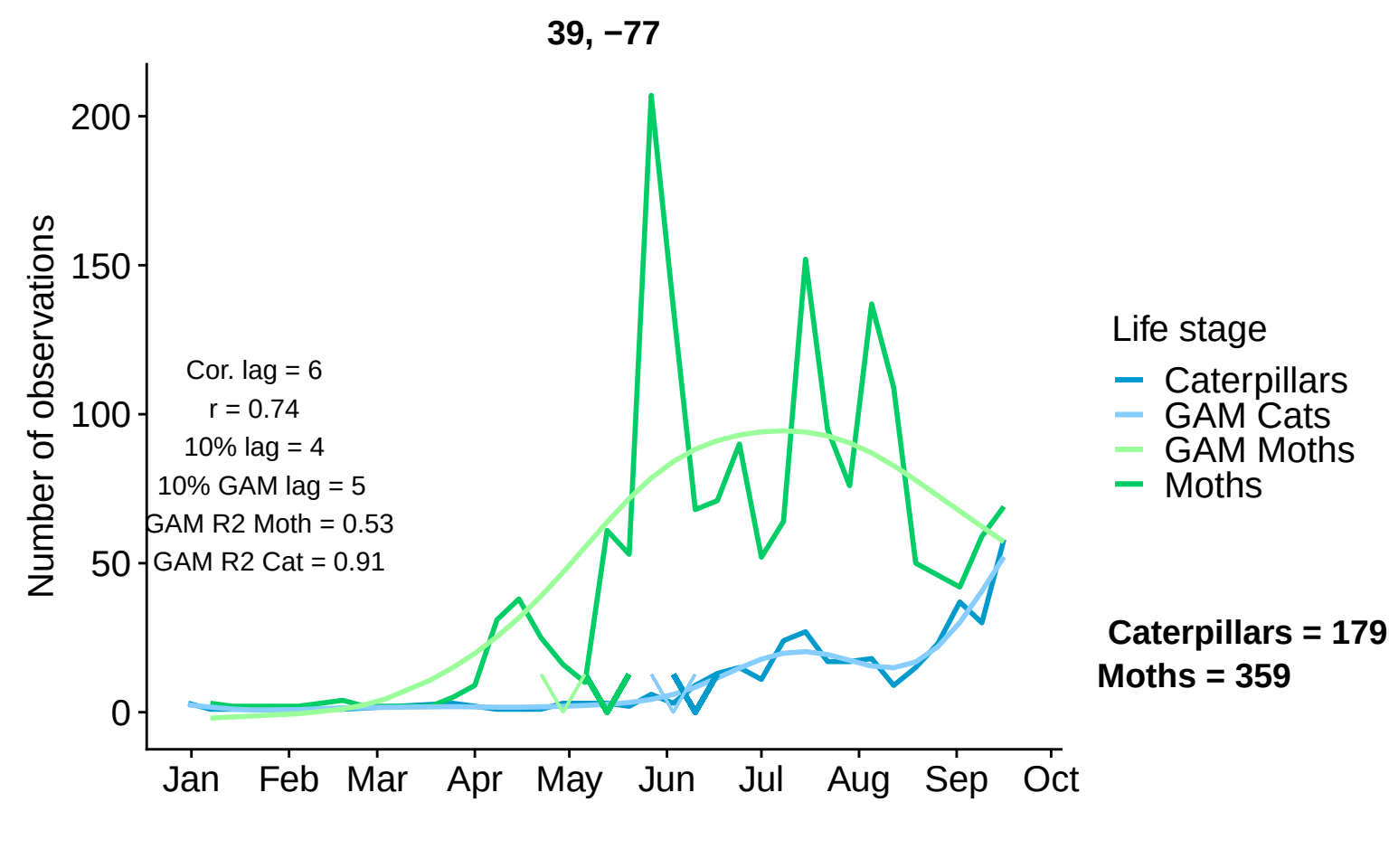

35, −83
Number of observations
100
75
50
25
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 5
r = 0.62
10% lag = 9
10% GAM lag = 9
GAM R2 Moth = 0.65
GAM R2 Cat = 0.62
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 123
Moths = 122

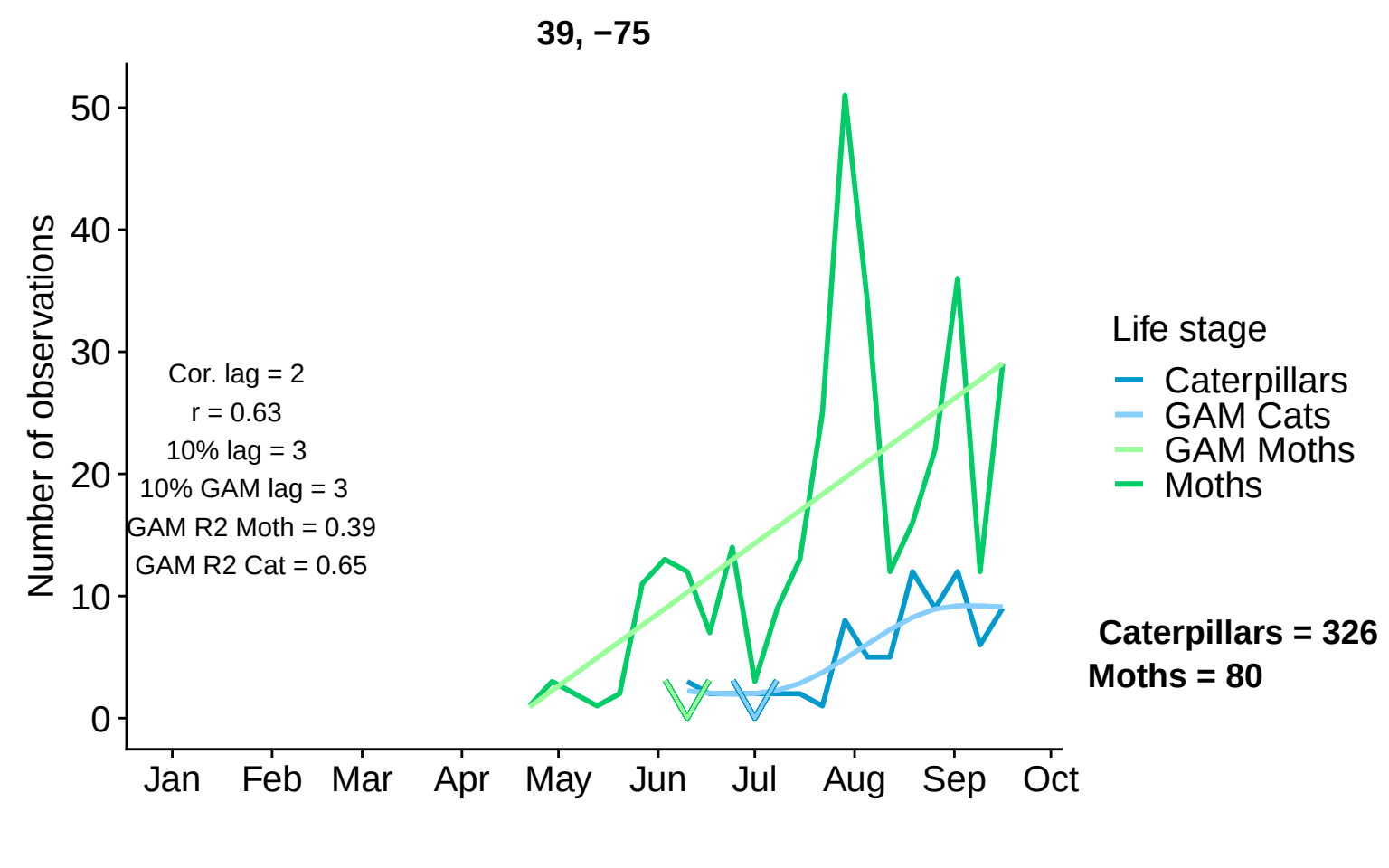

35, −79
Number of observations
0
20
40
60
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 8
r = 1
10% lag = 8
10% GAM lag = 7
GAM R2 Moth = 0.31
GAM R2 Cat = 0.74
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 435
Moths = 95

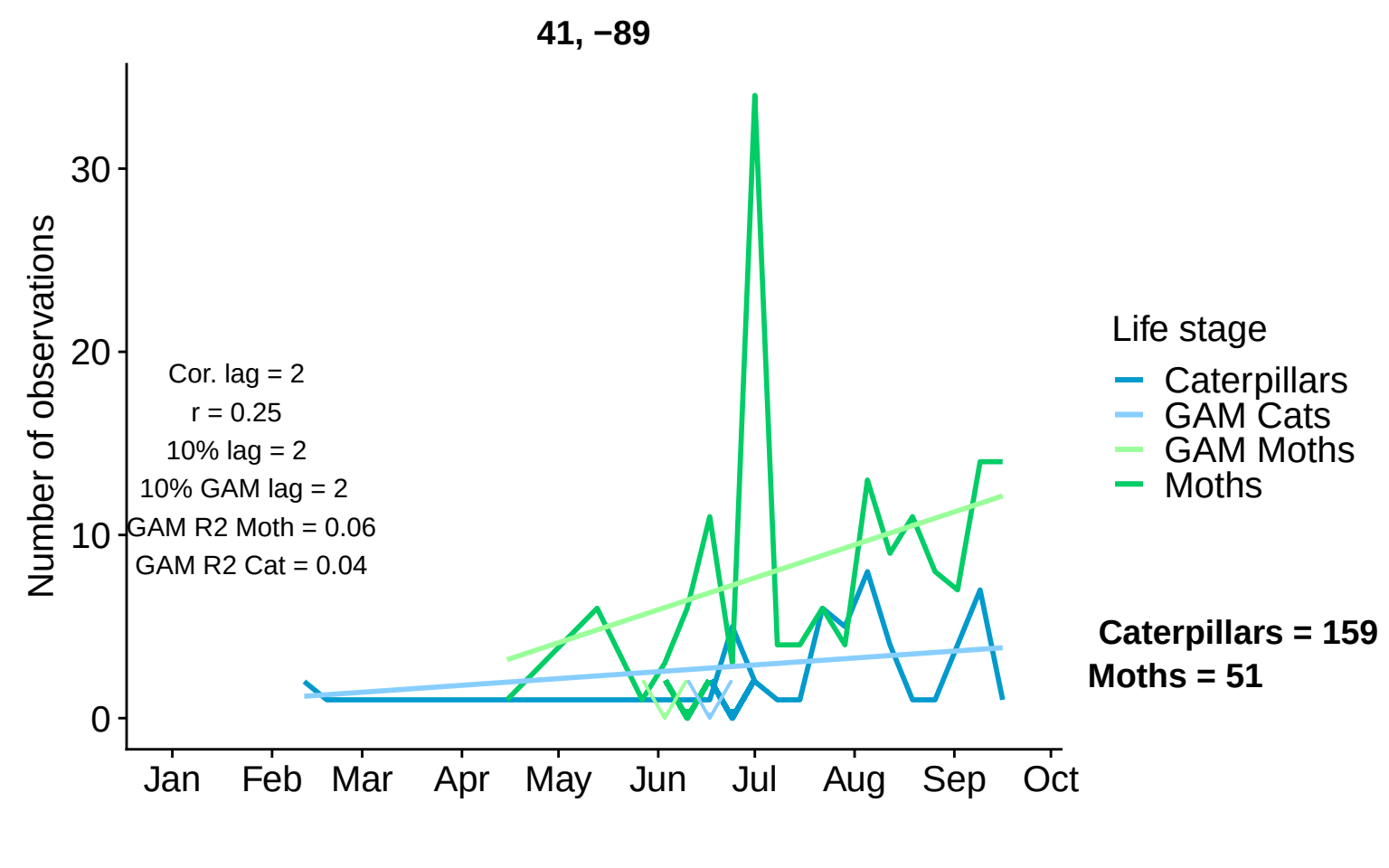

39, −85
Number of observations
30
20
10
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 5
r = 0.77
10% lag = 10
10% GAM lag = 11
GAM R2 Moth = 0.32
GAM R2 Cat = 0.45
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 367
Moths = 120

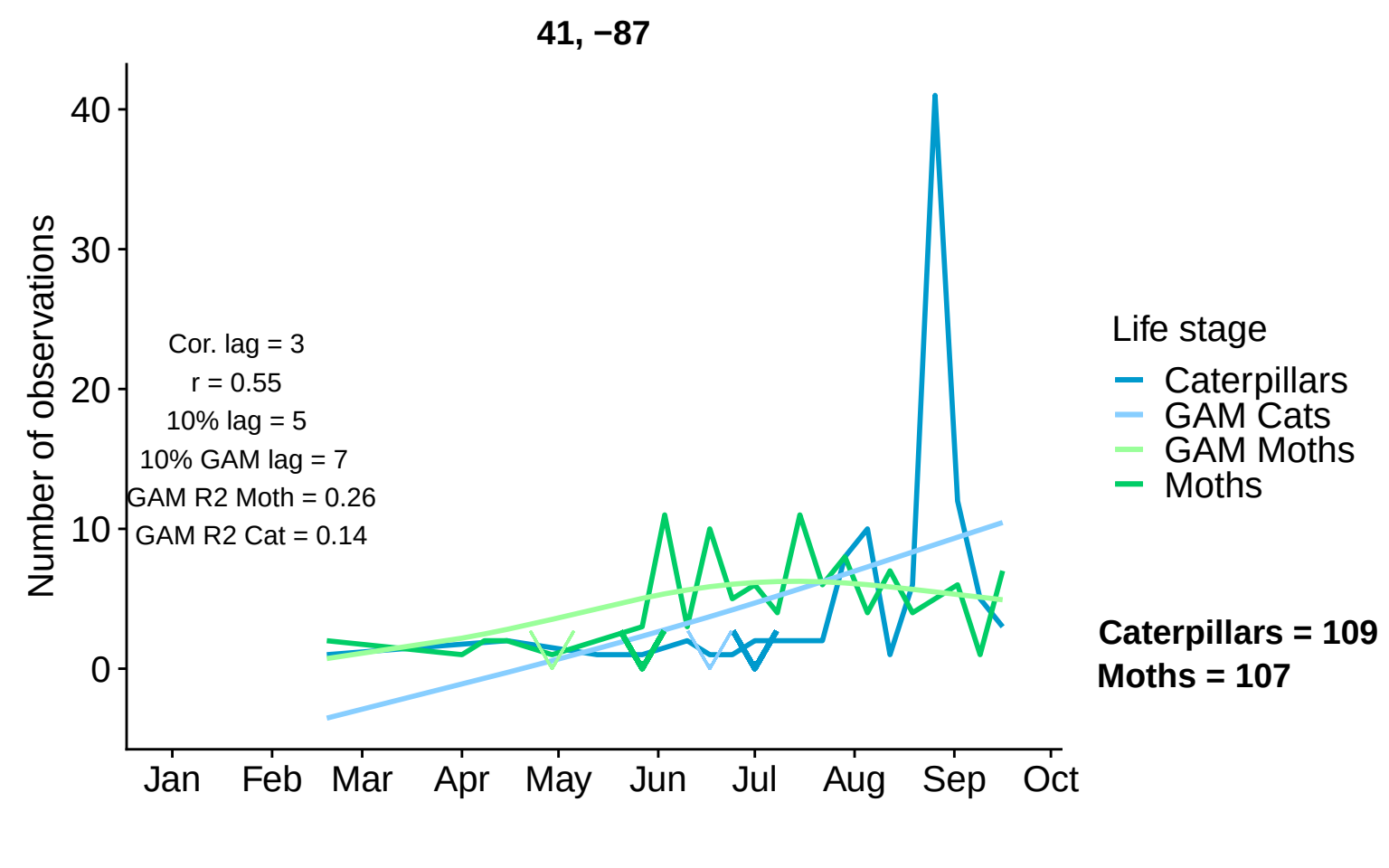

39, −83
Number of observations
0
20
40
60
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 4
r = 0.38
10% lag = 11
10% GAM lag = 11
GAM R2 Moth = 0.29
GAM R2 Cat = 0.33
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 404
Moths = 74.5

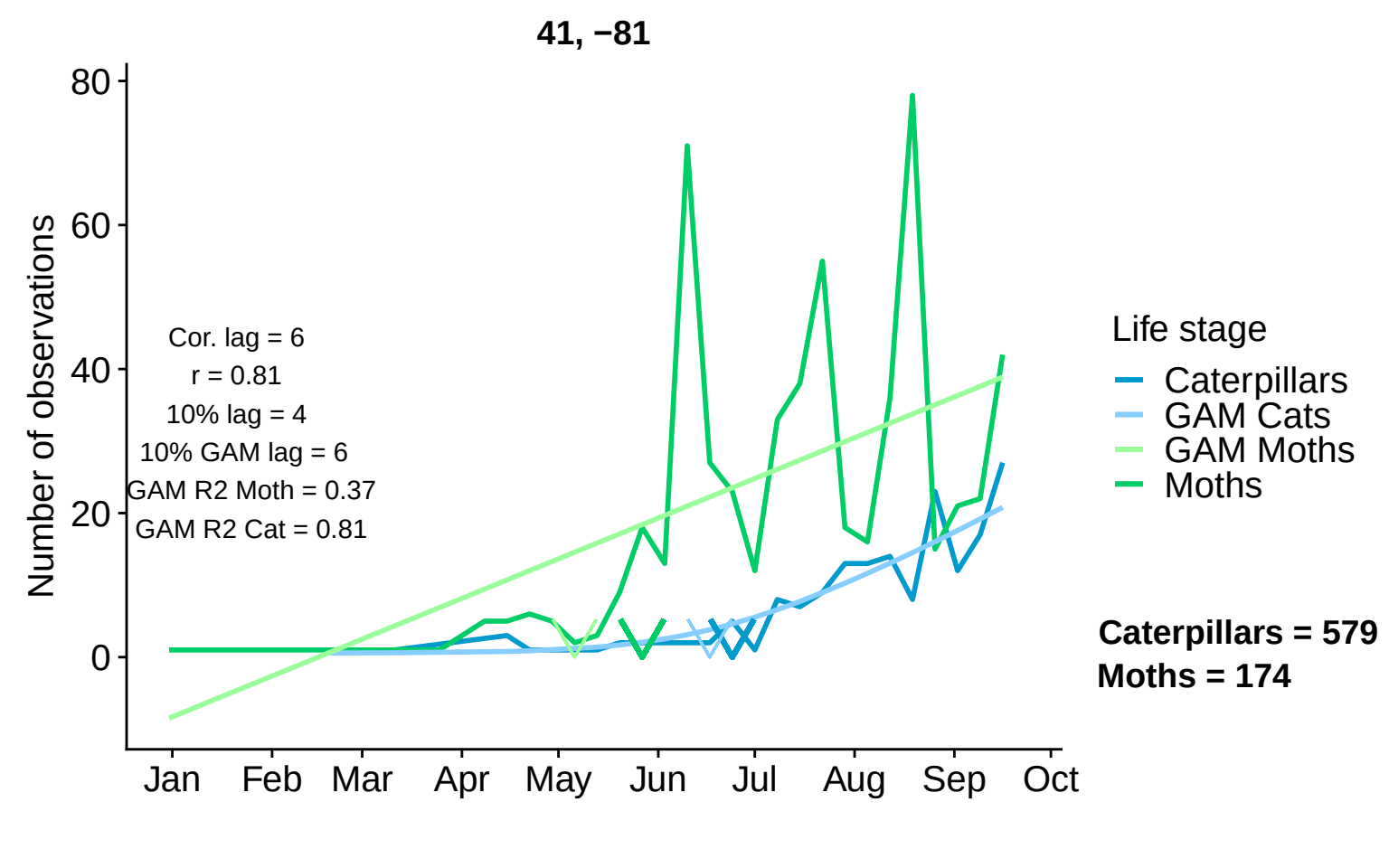

39, −79
Number of observations
0
20
40
60
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 4
r = 0.55
10% lag = 1
10% GAM lag = 4
GAM R2 Moth = 0.45
GAM R2 Cat = 0.41
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 652
Moths = 72

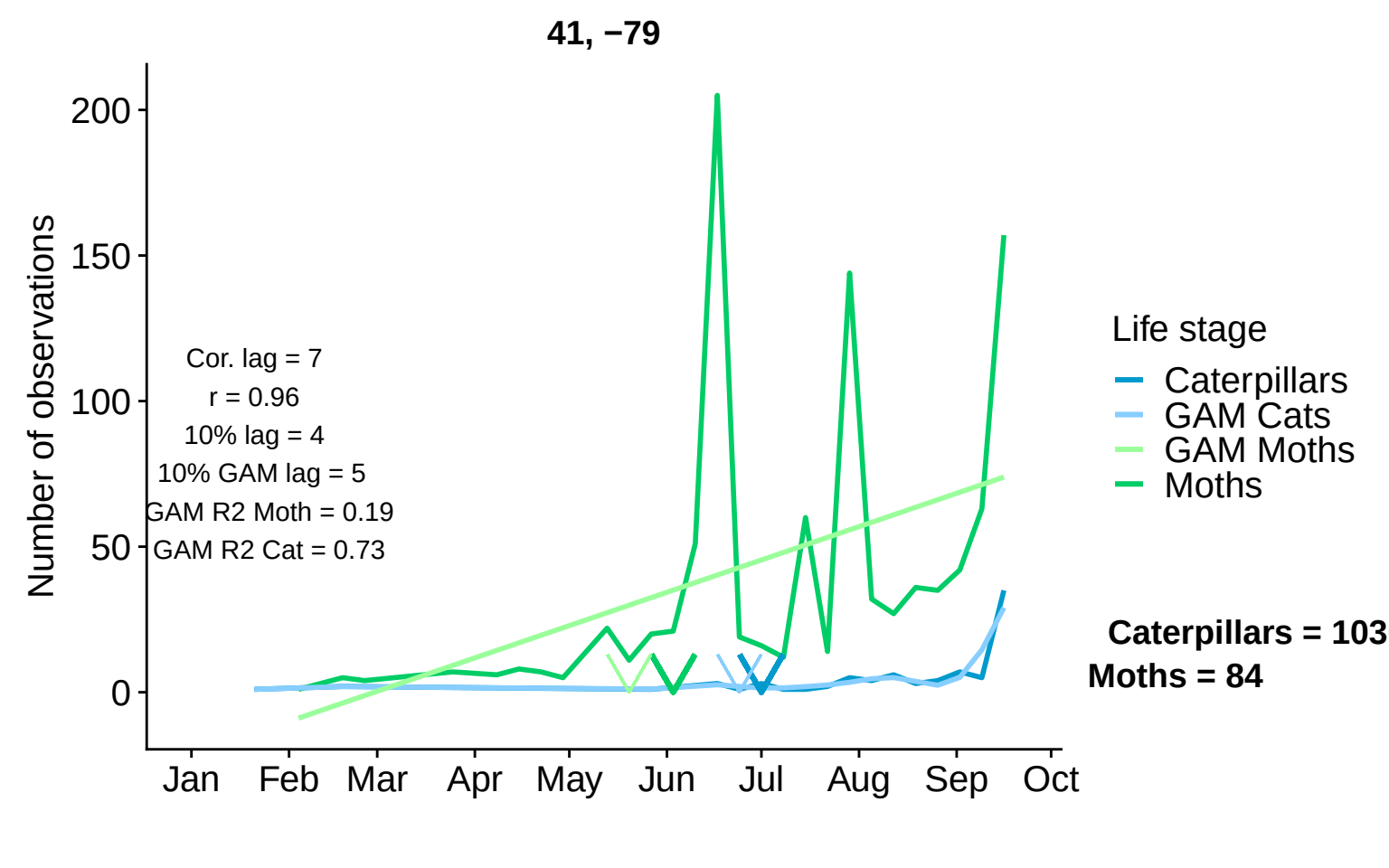

39, −77
Number of observations
200
150
100
50
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 6
r = 0.74
10% lag = 4
10% GAM lag = 5
GAM R2 Moth = 0.53
GAM R2 Cat = 0.91
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 179
Moths = 359

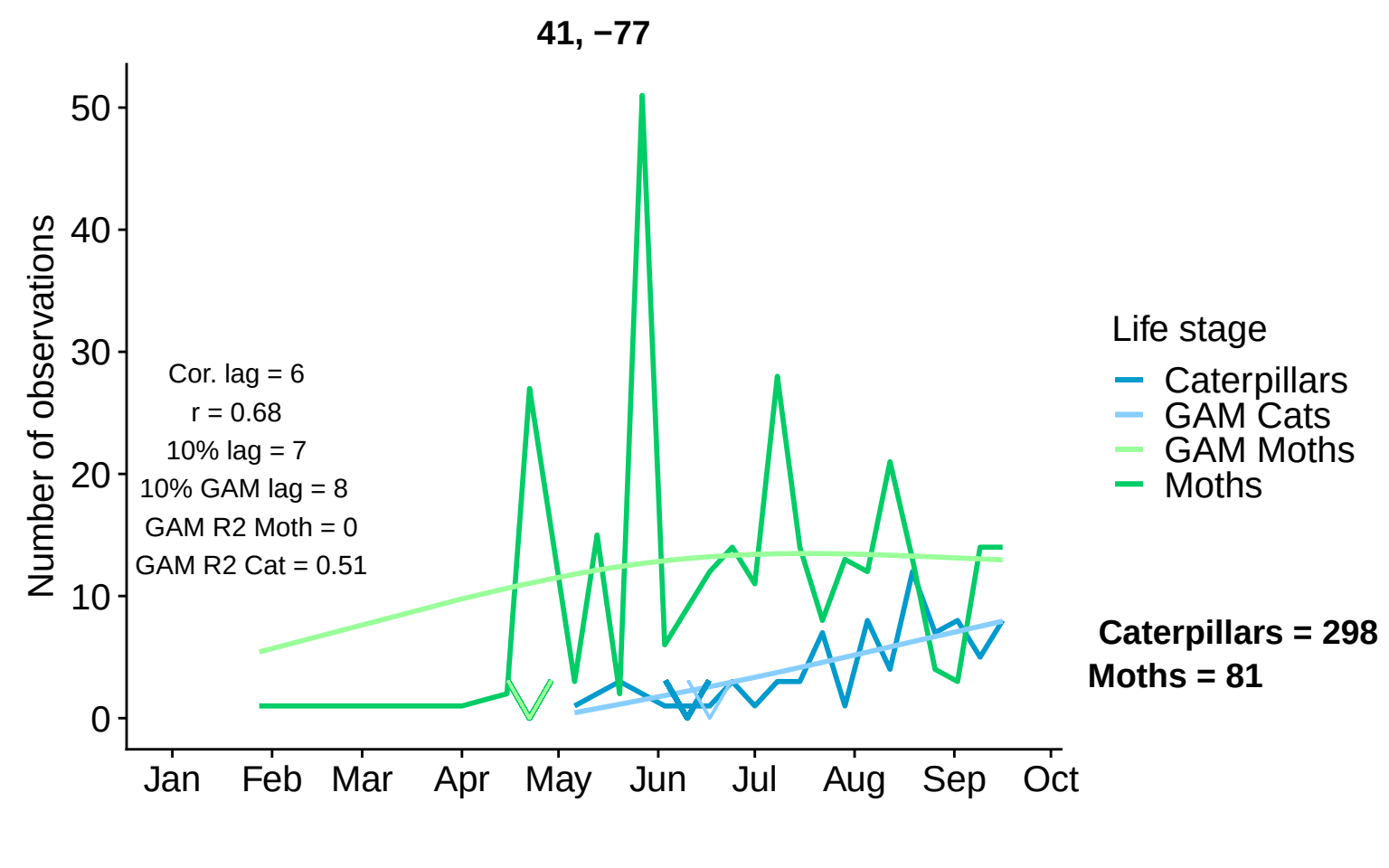

39, −75
Number of observations
0
10
20
30
40
50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 2
r = 0.63
10% lag = 3
10% GAM lag = 3
GAM R2 Moth = 0.39
GAM R2 Cat = 0.65
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 326
Moths = 80

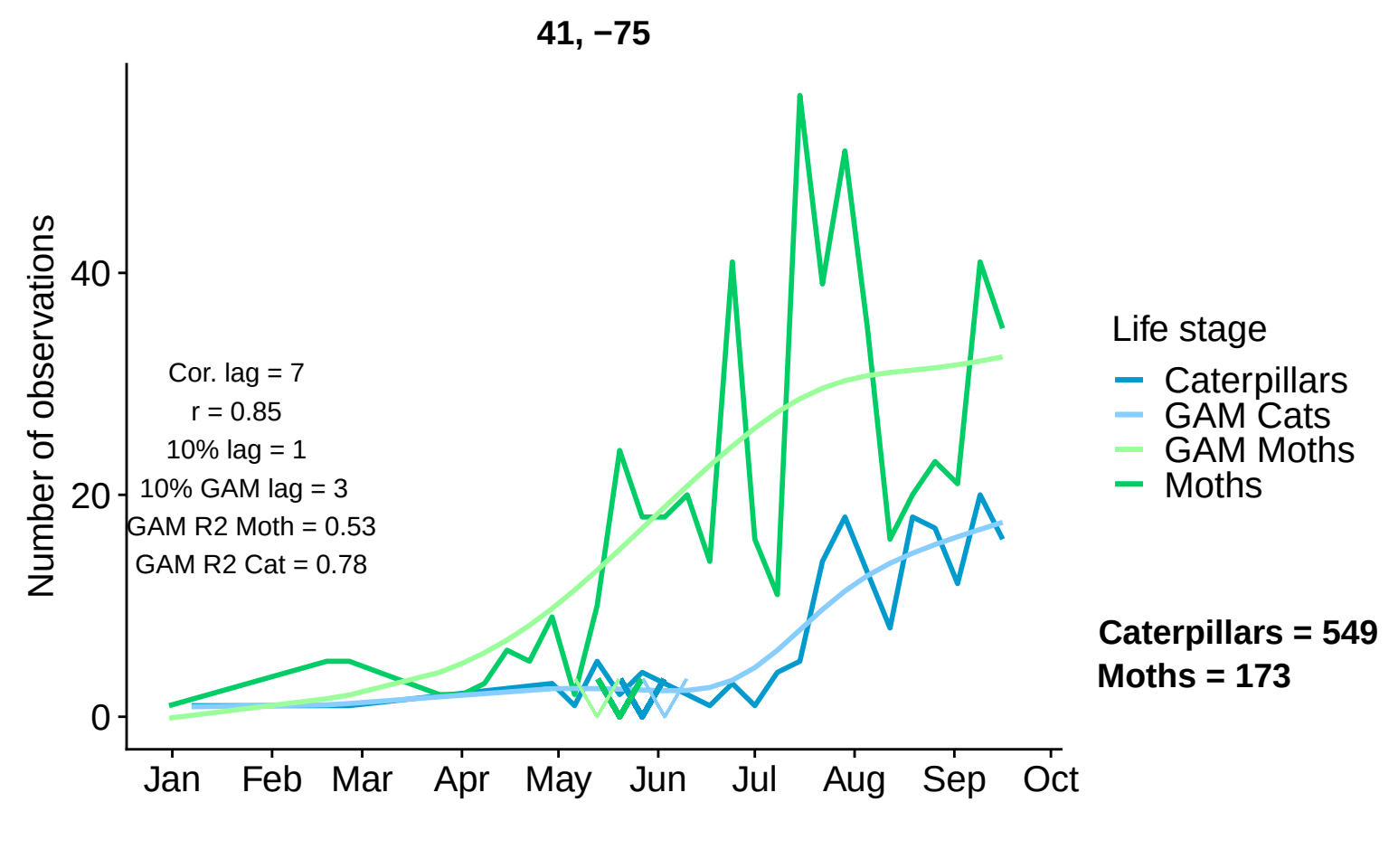

41, −89
Number of observations
30
20
10
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 2
r = 0.25
10% lag = 2
10% GAM lag = 2
GAM R2 Moth = 0.06
GAM R2 Cat = 0.04
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 159
Moths = 51

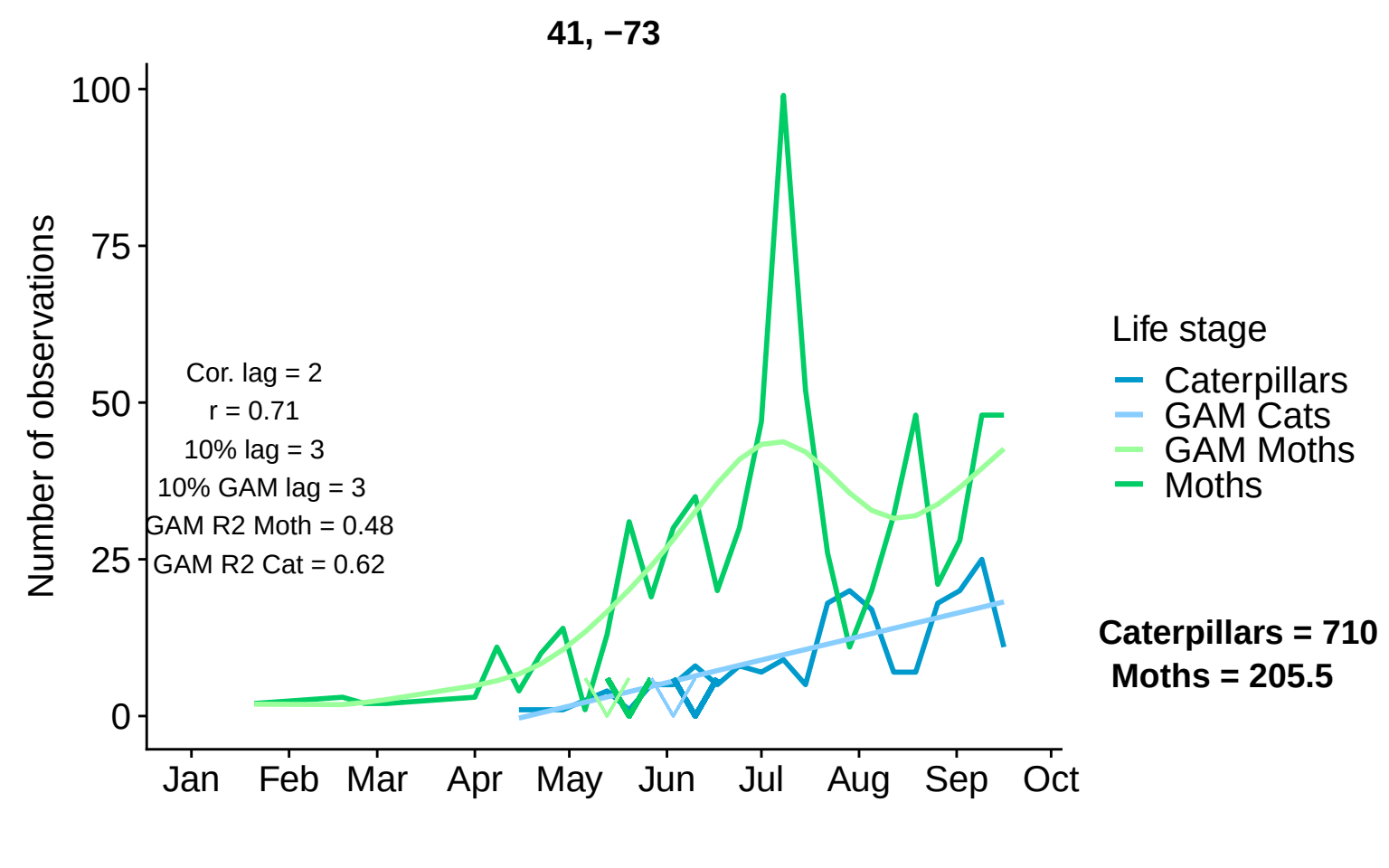

41, −87
Number of observations
40
30
20
10
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 3
r = 0.55
10% lag = 5
10% GAM lag = 7
GAM R2 Moth = 0.26
GAM R2 Cat = 0.14
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 109
Moths = 107

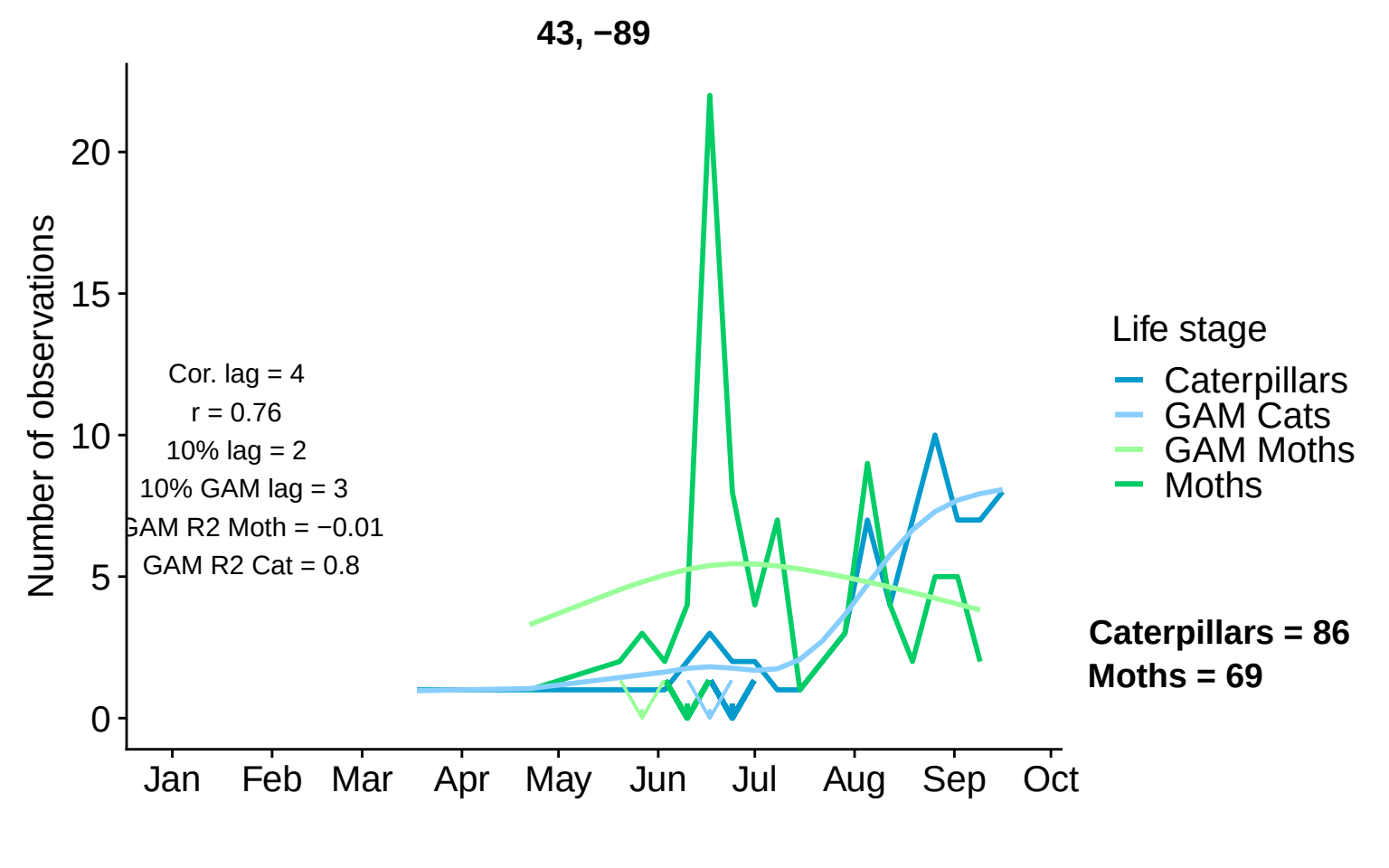

41, −81
Number of observations
80
60
40
20
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 6
r = 0.81
10% lag = 4
10% GAM lag = 6
GAM R2 Moth = 0.37
GAM R2 Cat = 0.81
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 579
Moths = 174

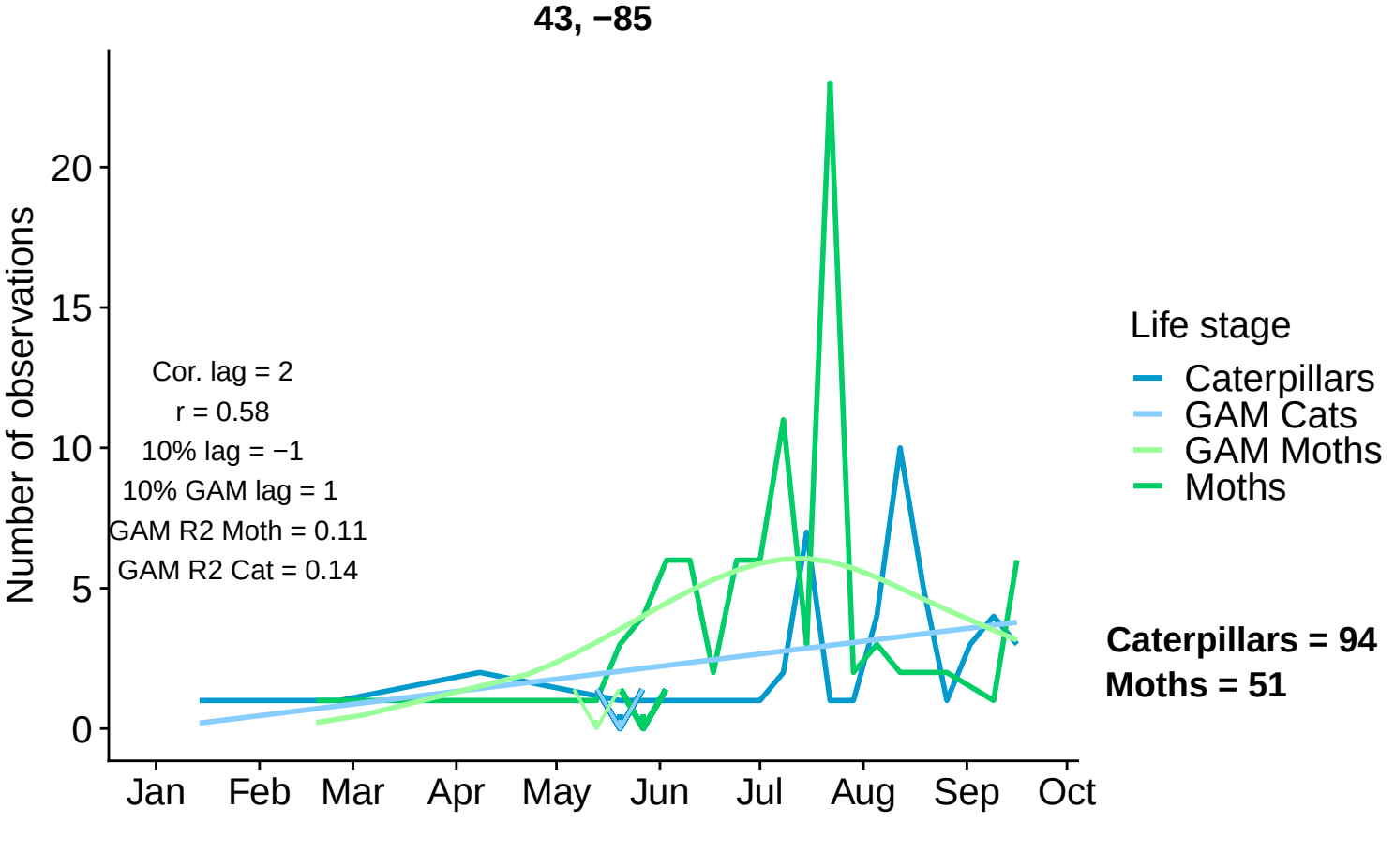

41, −79
Number of observations
200
150
100
50
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 7
r = 0.96
10% lag = 4
10% GAM lag = 5
GAM R2 Moth = 0.19
GAM R2 Cat = 0.73
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 103
Moths = 84

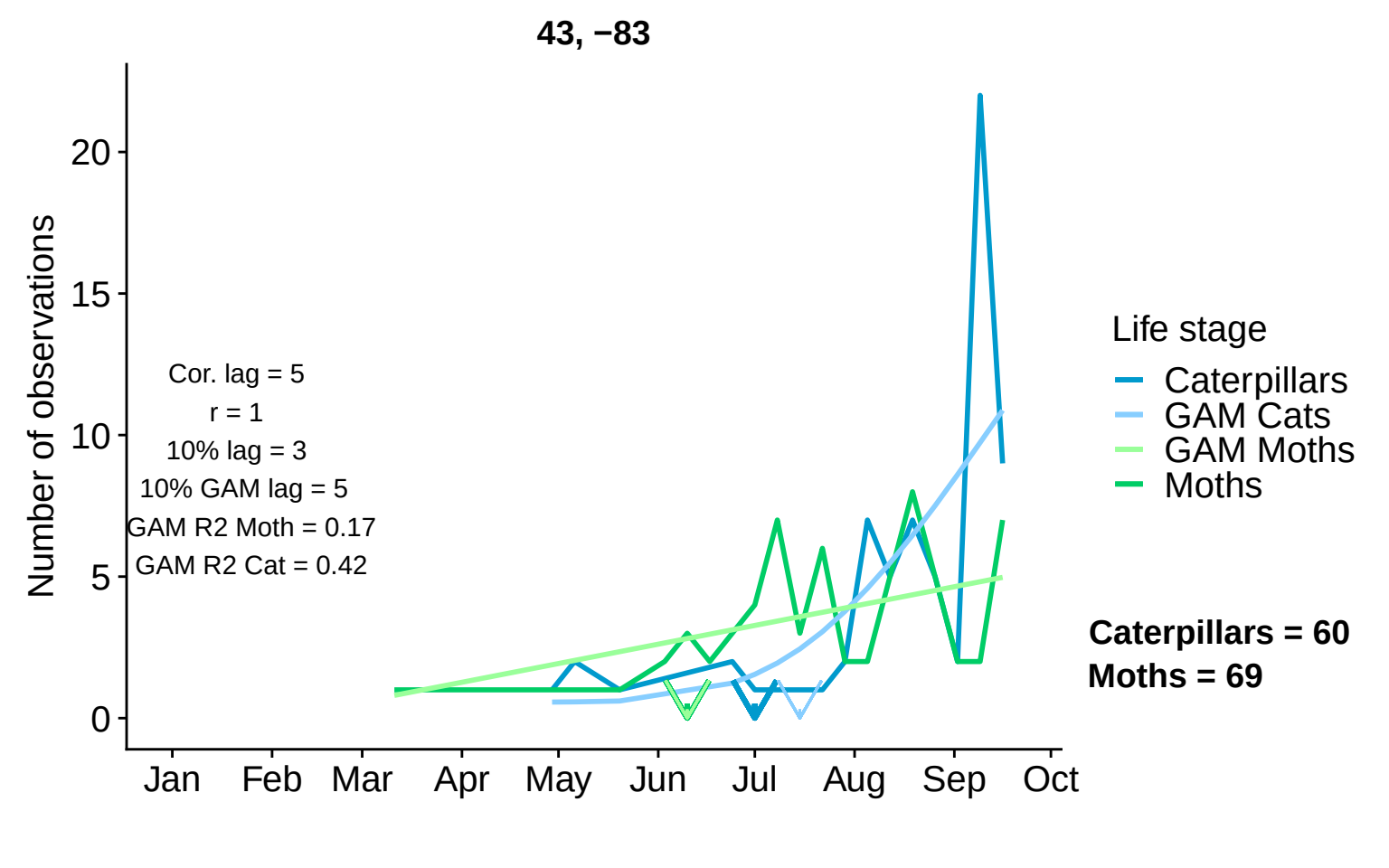

41, −77
Number of observations
0
10
20
30
40
50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 6
r = 0.68
10% lag = 7
10% GAM lag = 8
GAM R2 Moth = 0
GAM R2 Cat = 0.51
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 298
Moths = 81

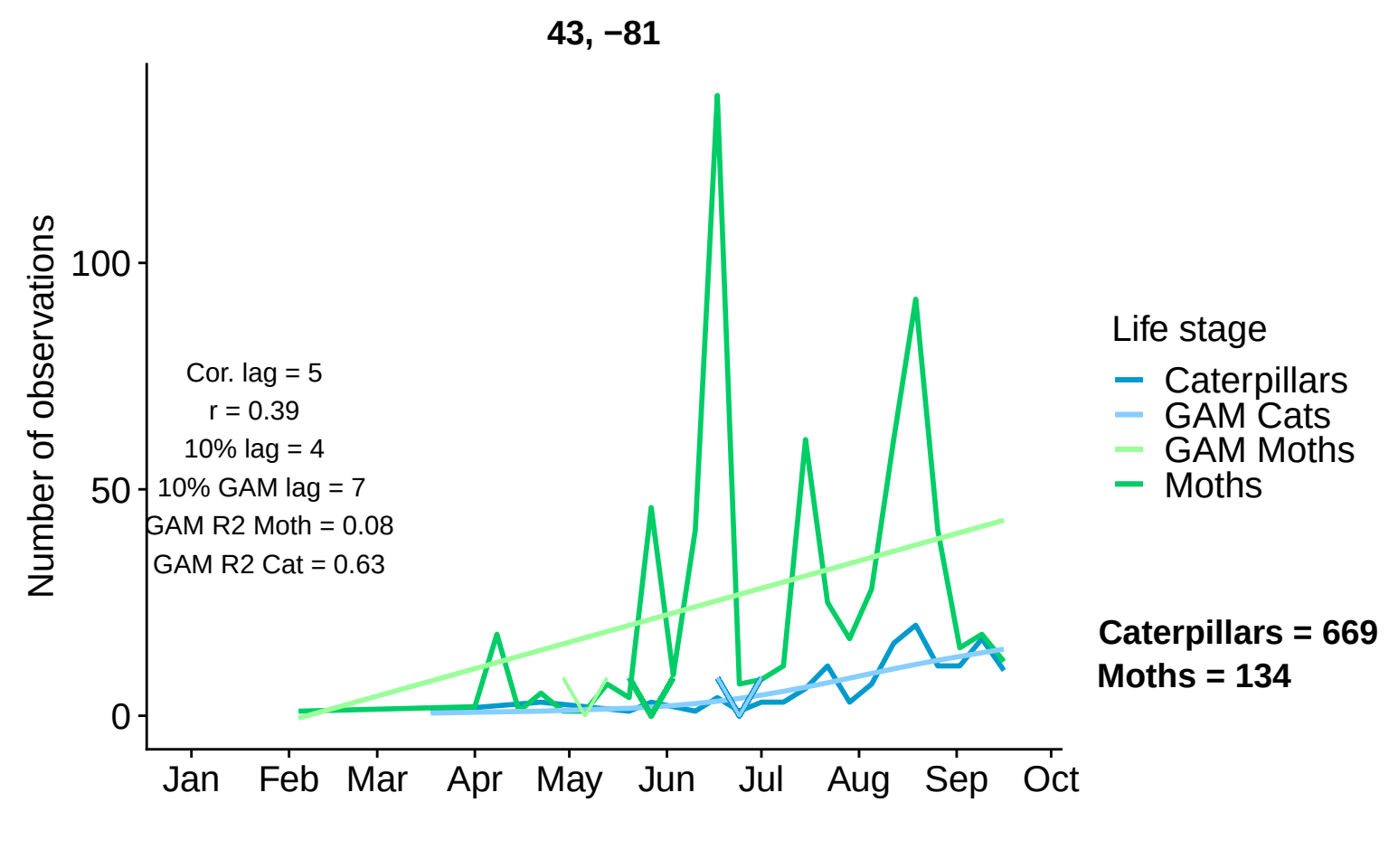

41, −75
Number of observations
0
20
40
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 7
r = 0.85
10% lag = 1
10% GAM lag = 3
GAM R2 Moth = 0.53
GAM R2 Cat = 0.78
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 549
Moths = 173

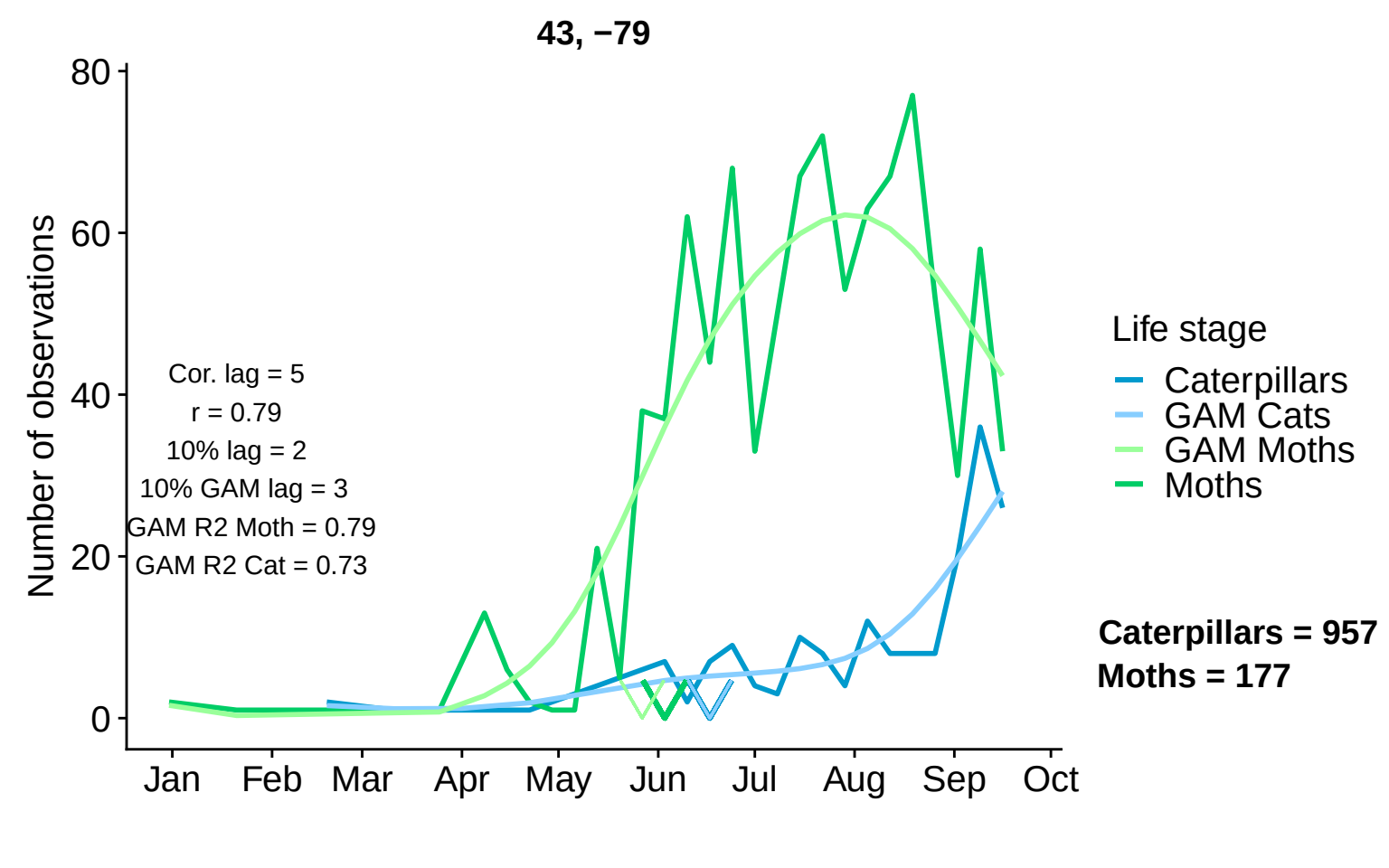

41, −73
Number of observations
100
75
50
25
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 2
r = 0.71
10% lag = 3
10% GAM lag = 3
GAM R2 Moth = 0.48
GAM R2 Cat = 0.62
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 710
Moths = 205.5

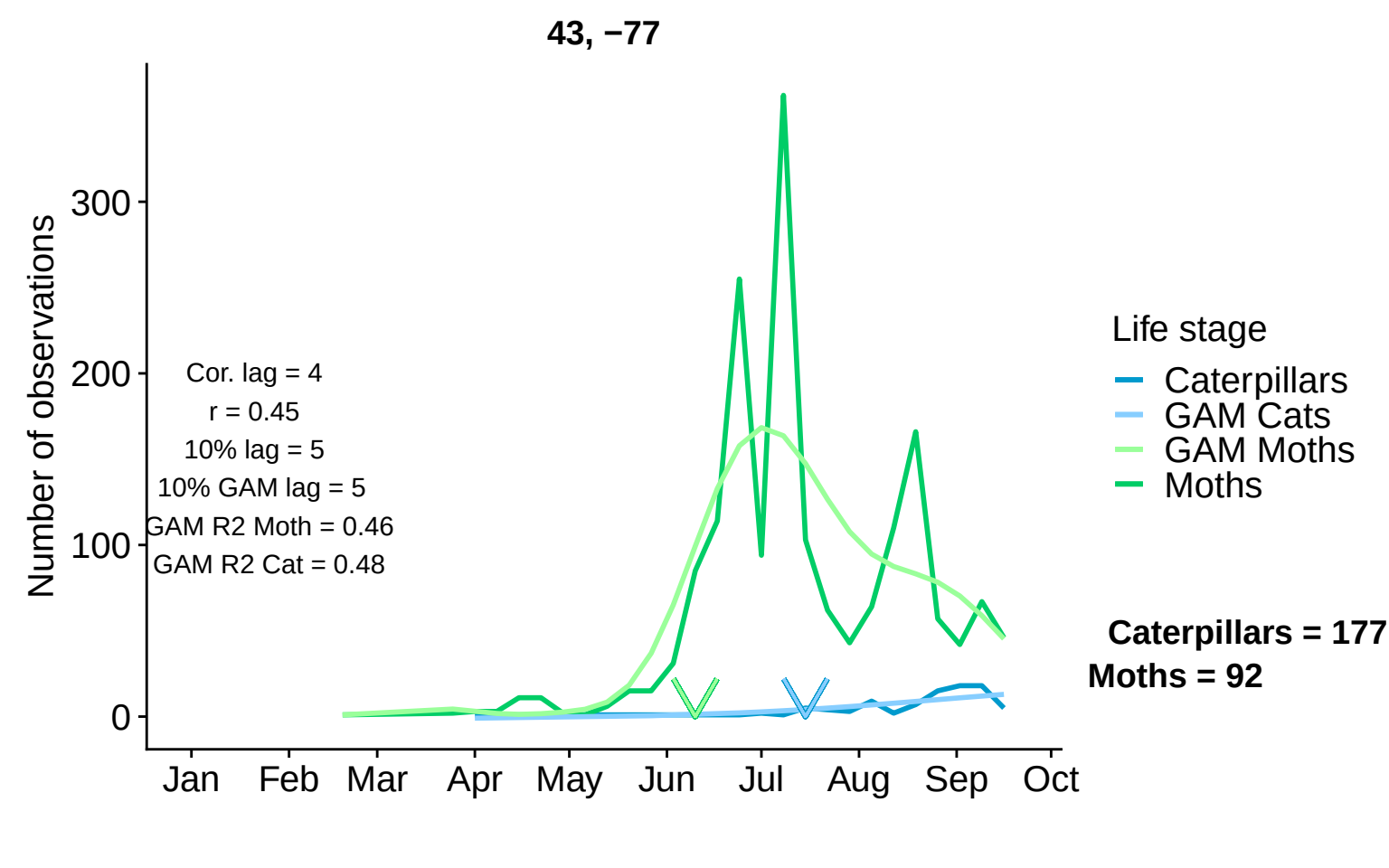

43, −89
Number of observations
20
15
10
5
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 4
r = 0.76
10% lag = 2
10% GAM lag = 3
GAM R2 Moth = −0.01
GAM R2 Cat = 0.8
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 86
Moths = 69

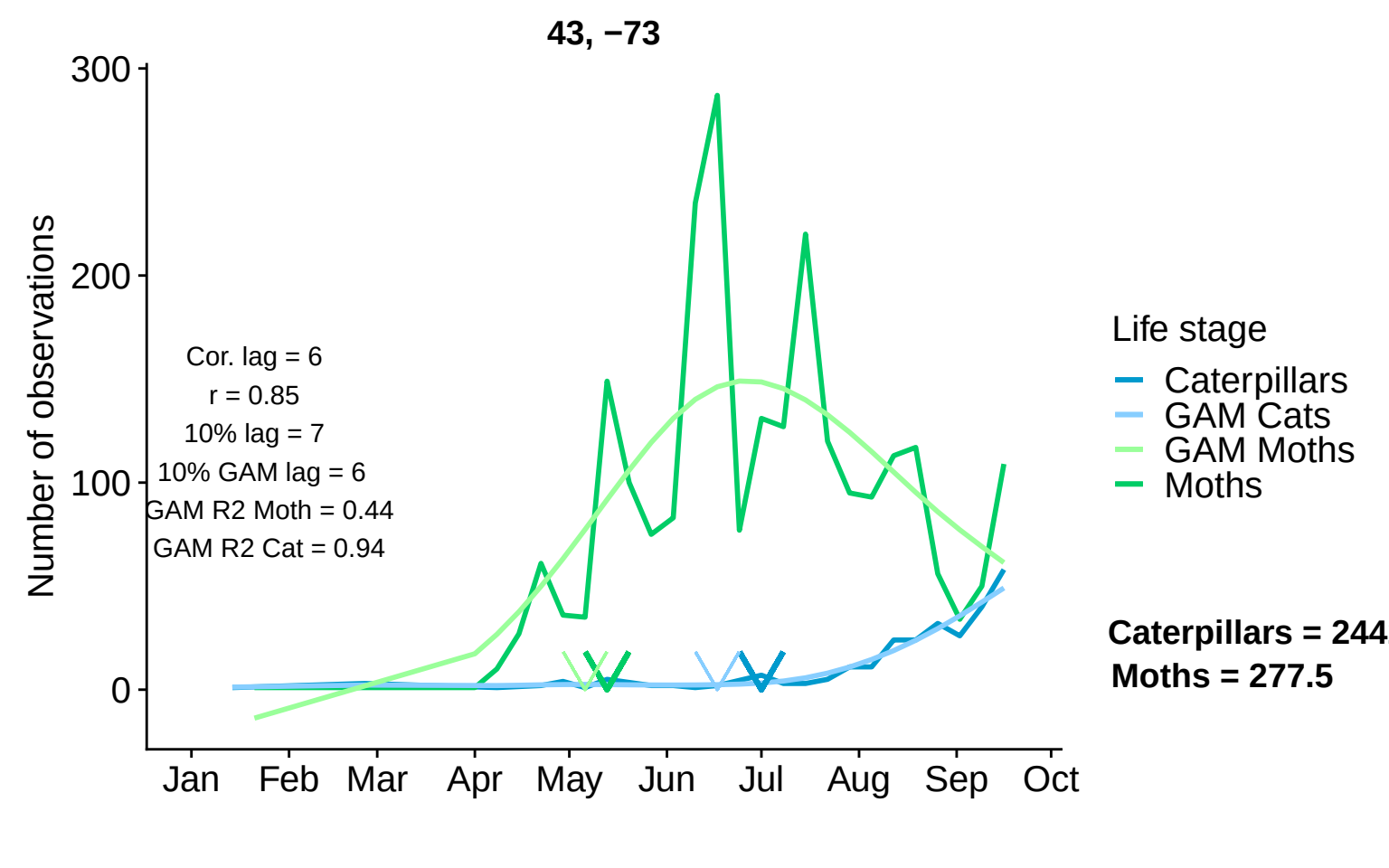

43, −85
Number of observations
0
5
10
15
20
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 2
r = 0.58
10% lag = −1
10% GAM lag = 1
GAM R2 Moth = 0.11
GAM R2 Cat = 0.14
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 94
Moths = 51

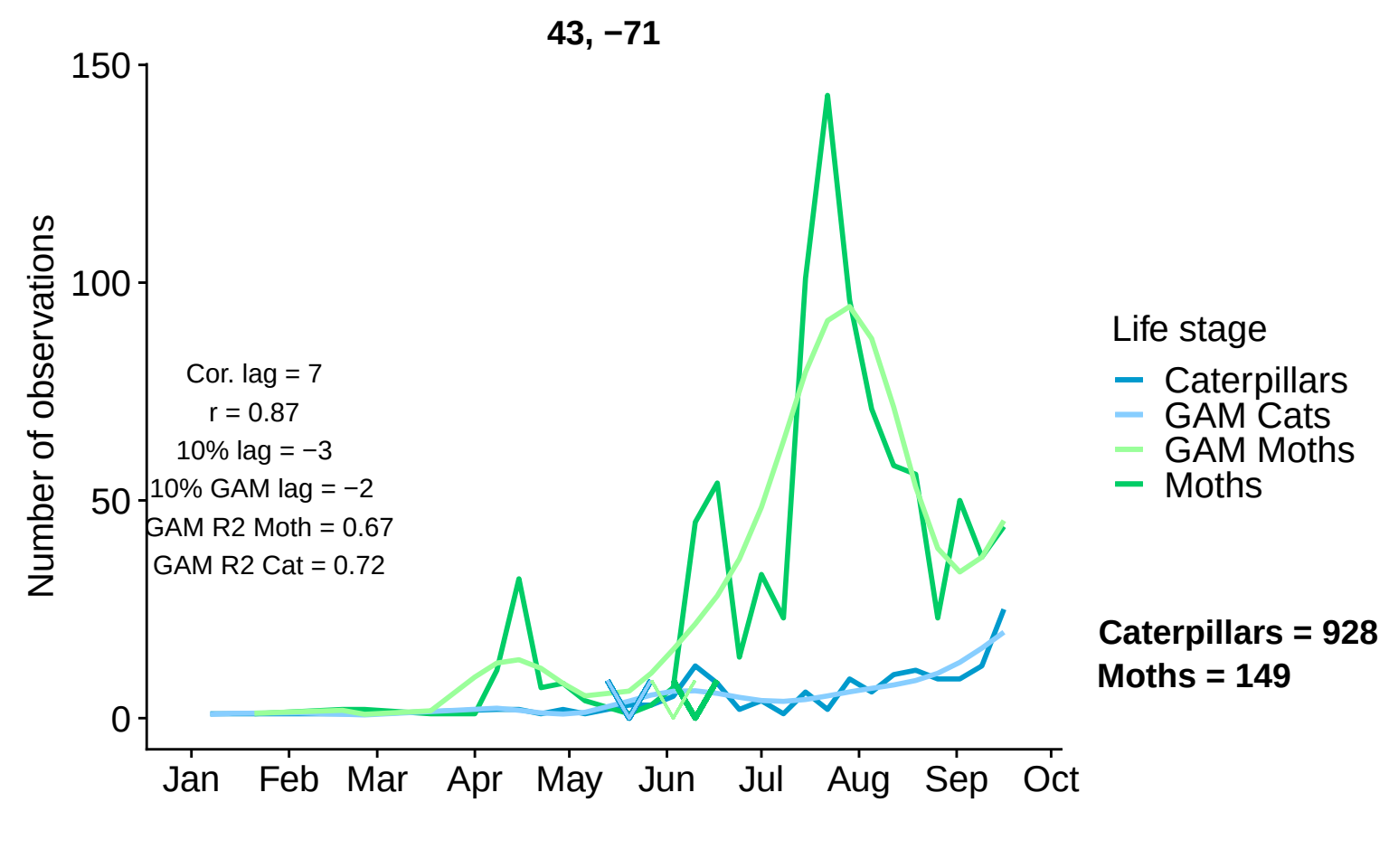

43, −83
Number of observations
0
5
10
15
20
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 5
r = 1
10% lag = 3
10% GAM lag = 5
GAM R2 Moth = 0.17
GAM R2 Cat = 0.42
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 60
Moths = 69

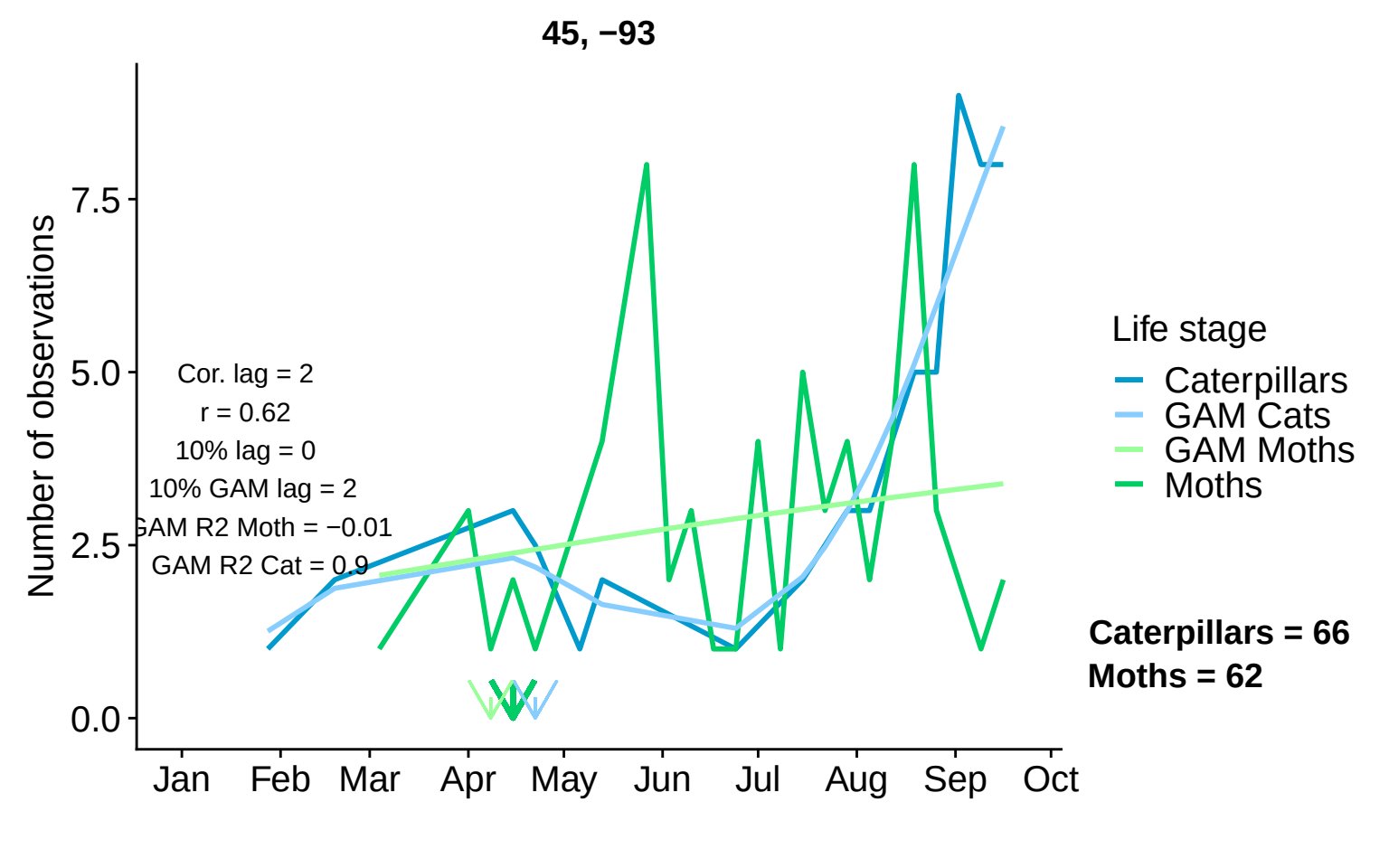

43, −81
Number of observations
100
50
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 5
r = 0.39
10% lag = 4
10% GAM lag = 7
GAM R2 Moth = 0.08
GAM R2 Cat = 0.63
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 669
Moths = 134

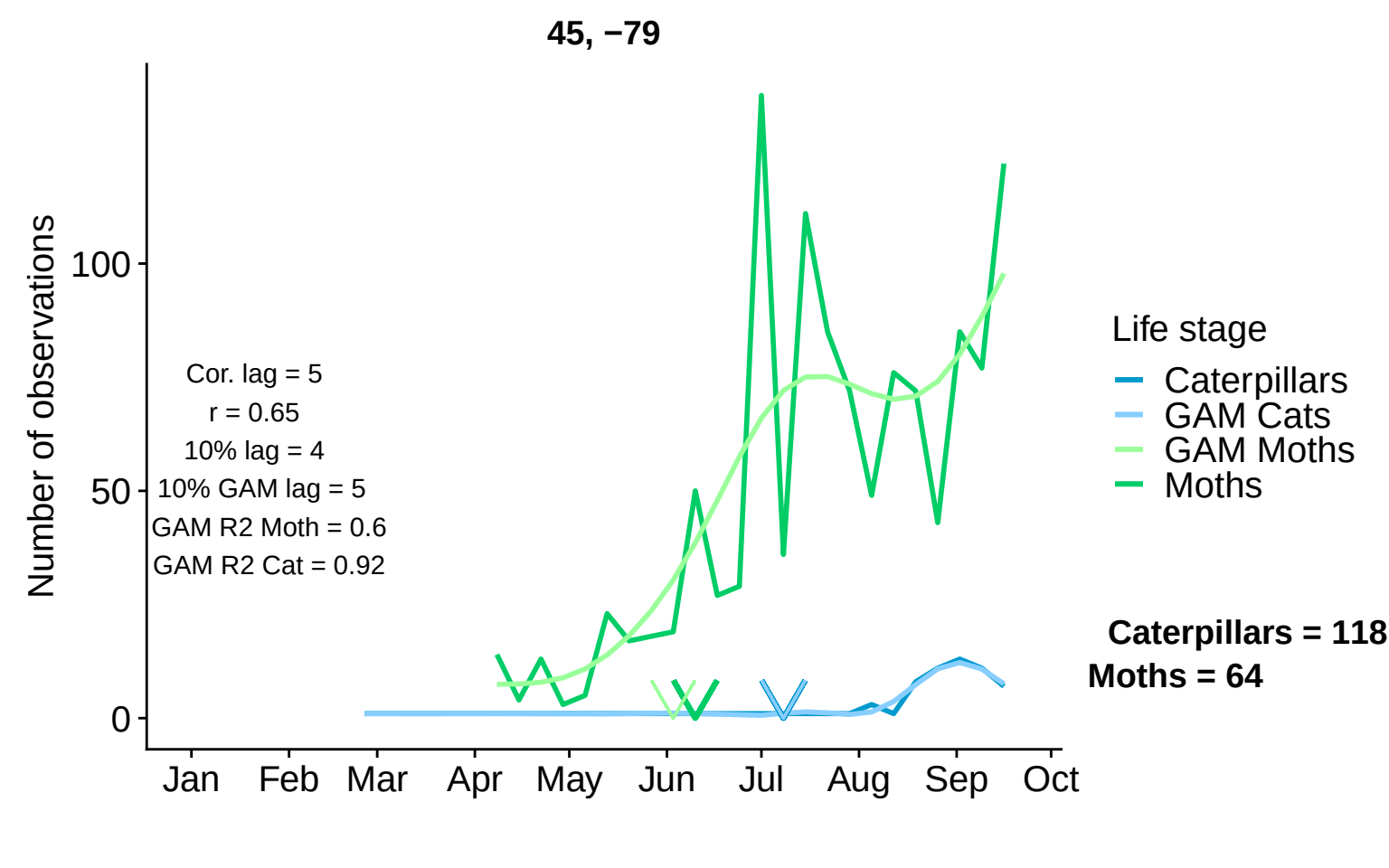

43, −79
Number of observations
80
60
40
20
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 5
r = 0.79
10% lag = 2
10% GAM lag = 3
GAM R2 Moth = 0.79
GAM R2 Cat = 0.73
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 957
Moths = 177

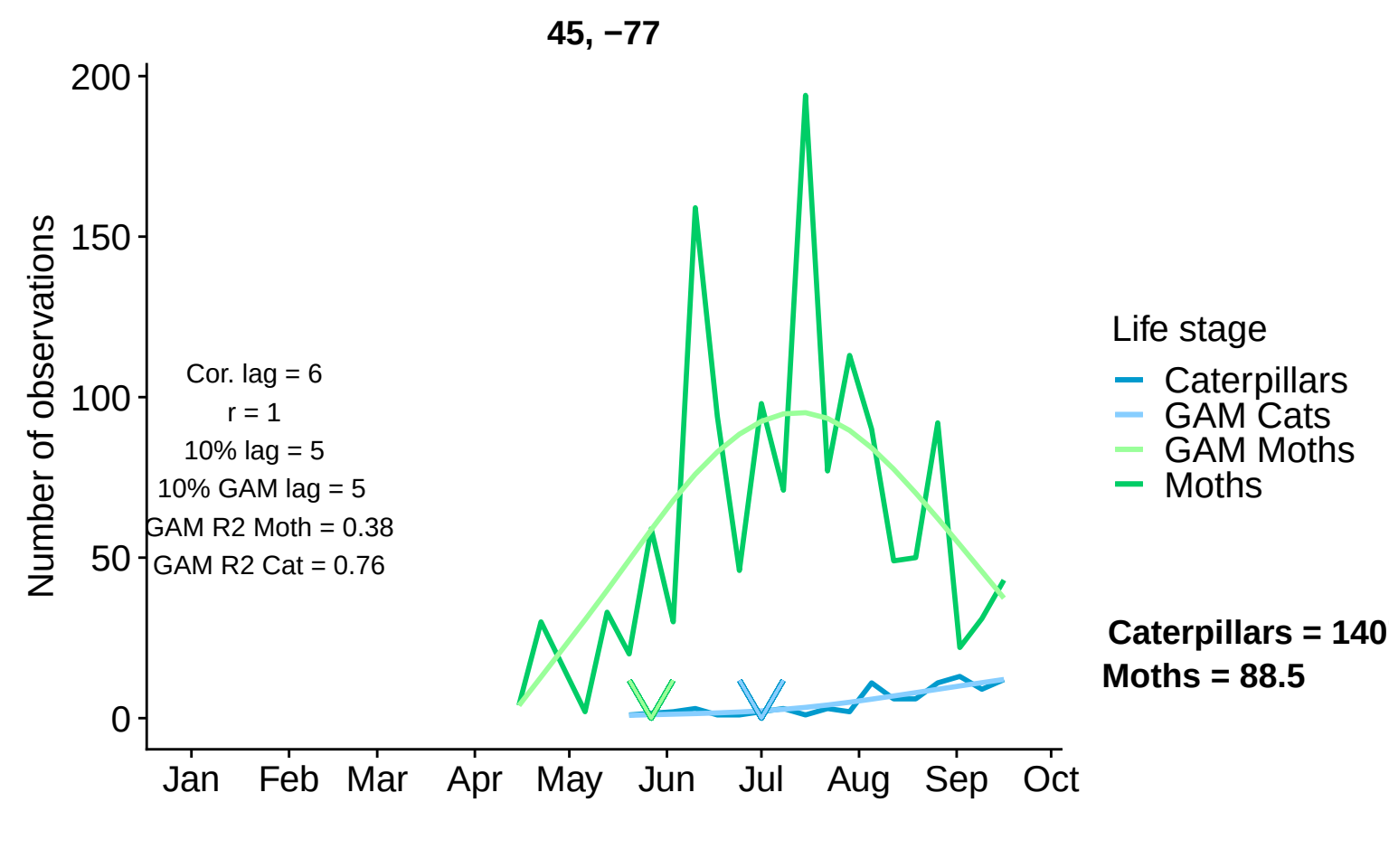

43, −77
Number of observations
300
200
100
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 4
r = 0.45
10% lag = 5
10% GAM lag = 5
GAM R2 Moth = 0.46
GAM R2 Cat = 0.48
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 177
Moths = 92

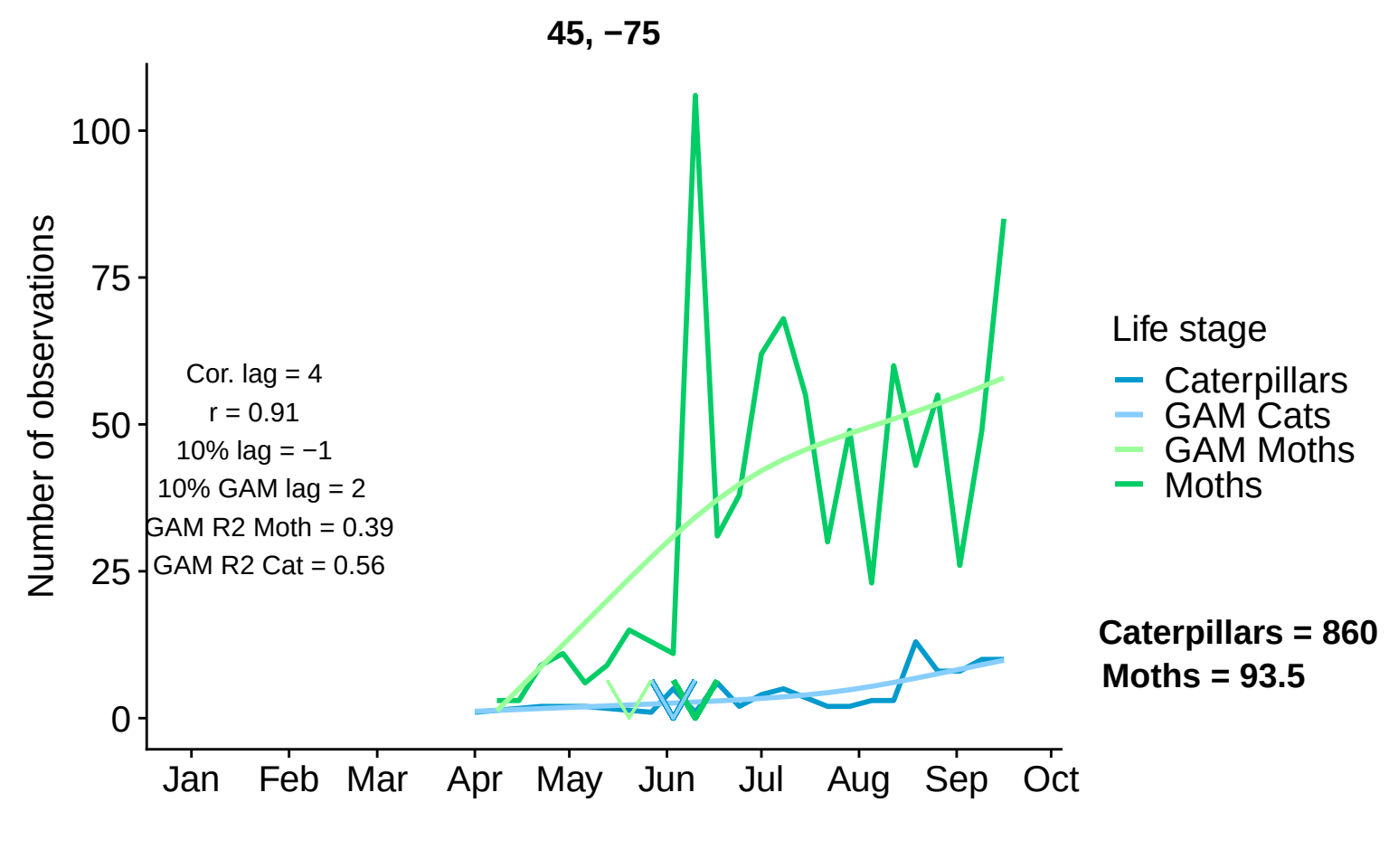

43, −73
300
200
100
0
Number of observations
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 6
r = 0.85
10% lag = 7
10% GAM lag = 6
GAM R2 Moth = 0.44
GAM R2 Cat = 0.94
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 244
Moths = 277.5

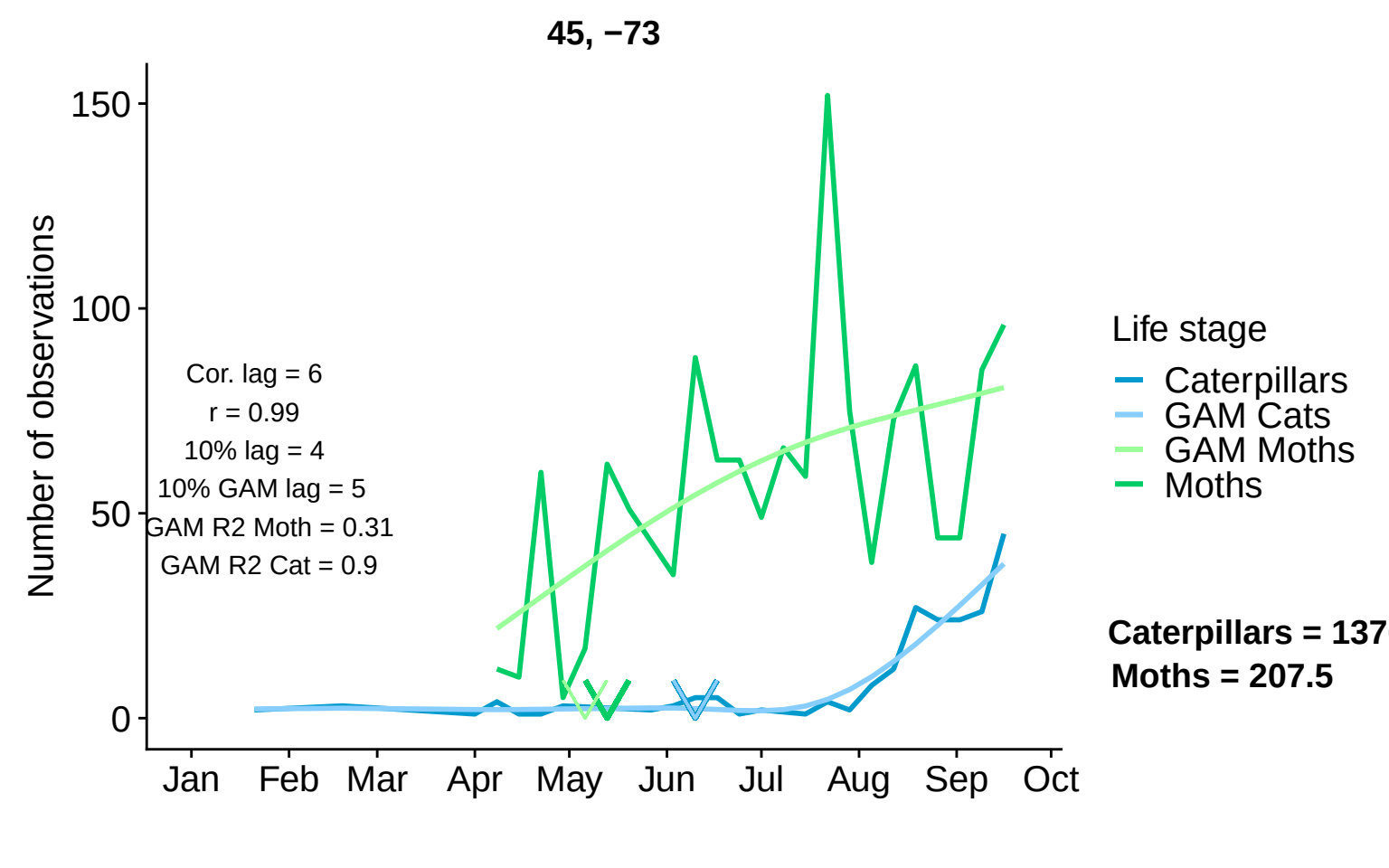

43, −71
150
100
50
0
Number of observations
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 7
r = 0.87
10% lag = −3
10% GAM lag = −2
GAM R2 Moth = 0.67
GAM R2 Cat = 0.72
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 928
Moths = 149


45, −93
Number of observations
7.5
5.0
2.5
0.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 2
r = 0.62
10% lag = 0
10% GAM lag = 2
GAM R2 Moth = −0.01
GAM R2 Cat = 0.9
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 66
Moths = 62


45, −79
Number of observations
100
50
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 5
r = 0.65
10% lag = 4
10% GAM lag = 5
GAM R2 Moth = 0.6
GAM R2 Cat = 0.92
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 118
Moths = 64


45, −77
Number of observations
200
150
100
50
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 6
r = 1
10% lag = 5
10% GAM lag = 5
GAM R2 Moth = 0.38
GAM R2 Cat = 0.76
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 140
Moths = 88.5


45, −75
Number of observations
100
75
50
25
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 4
r = 0.91
10% lag = −1
10% GAM lag = 2
GAM R2 Moth = 0.39
GAM R2 Cat = 0.56
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 860
Moths = 93.5


45, −73
Number of observations
150
100
50
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Cor. lag = 6
r = 0.99
10% lag = 4
10% GAM lag = 5
GAM R2 Moth = 0.31
GAM R2 Cat = 0.9
Life stage
Caterpillars
GAM Cats
GAM Moths
Moths
Caterpillars = 137
Moths = 207.5