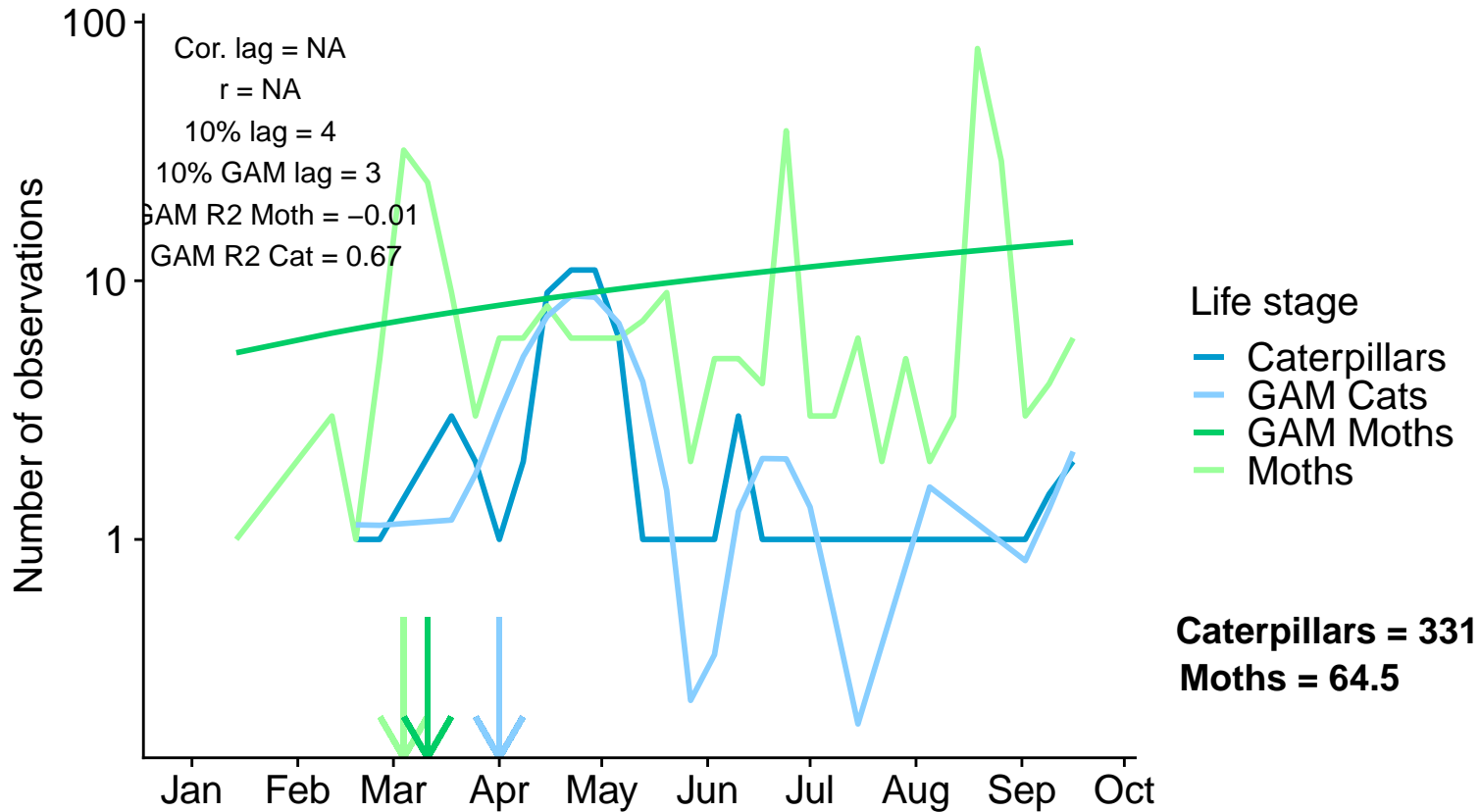
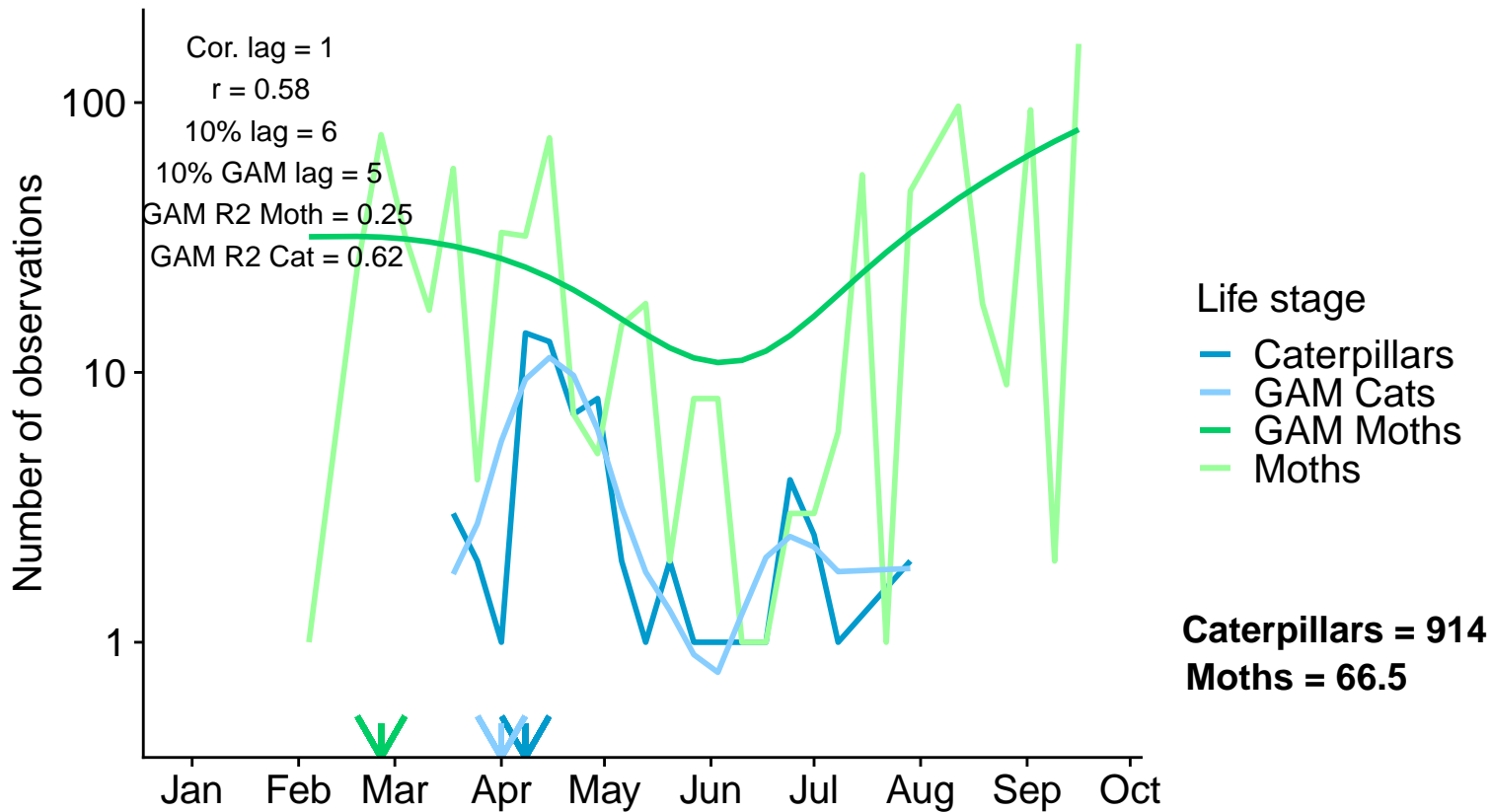


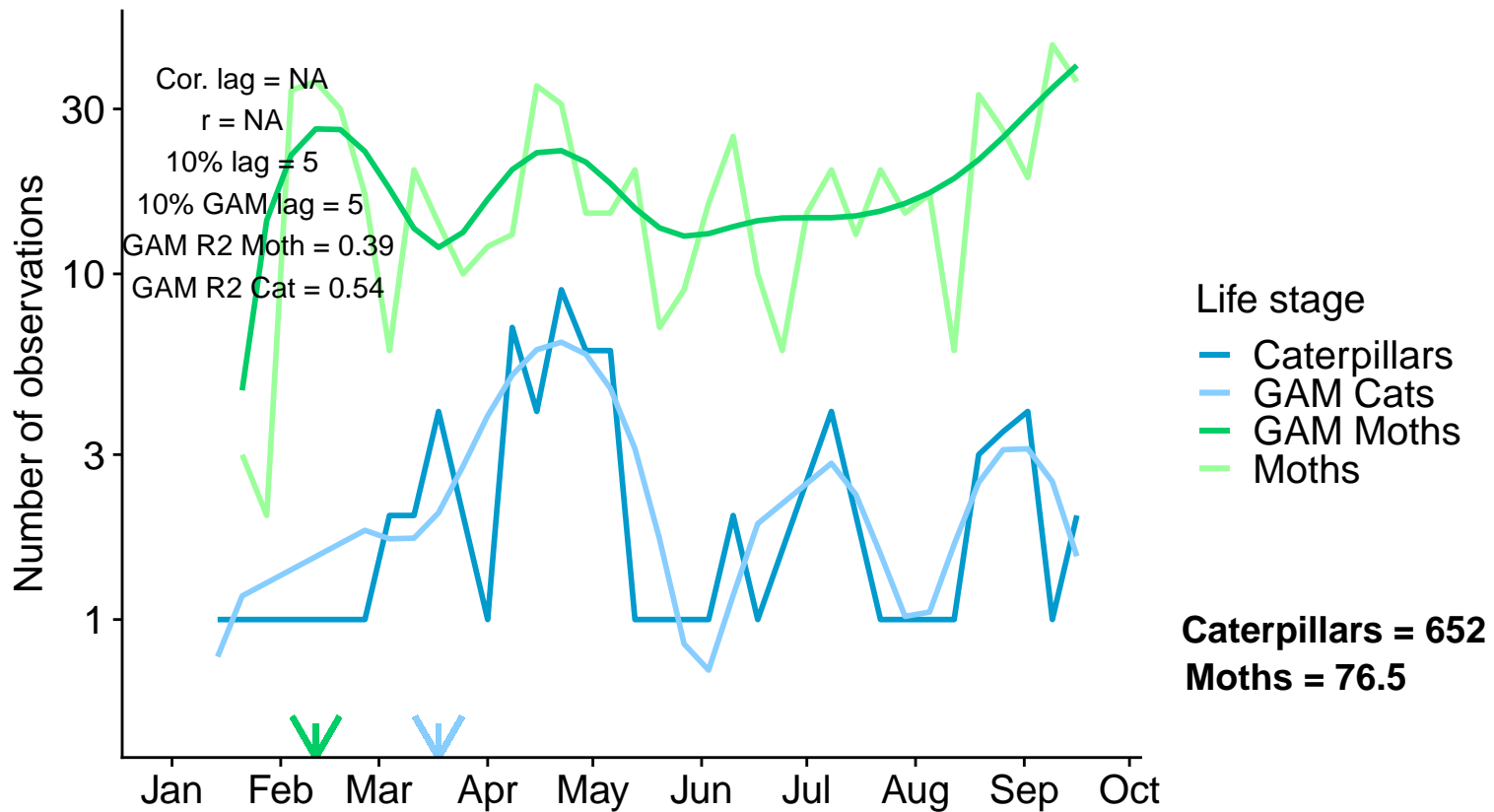
29, -99



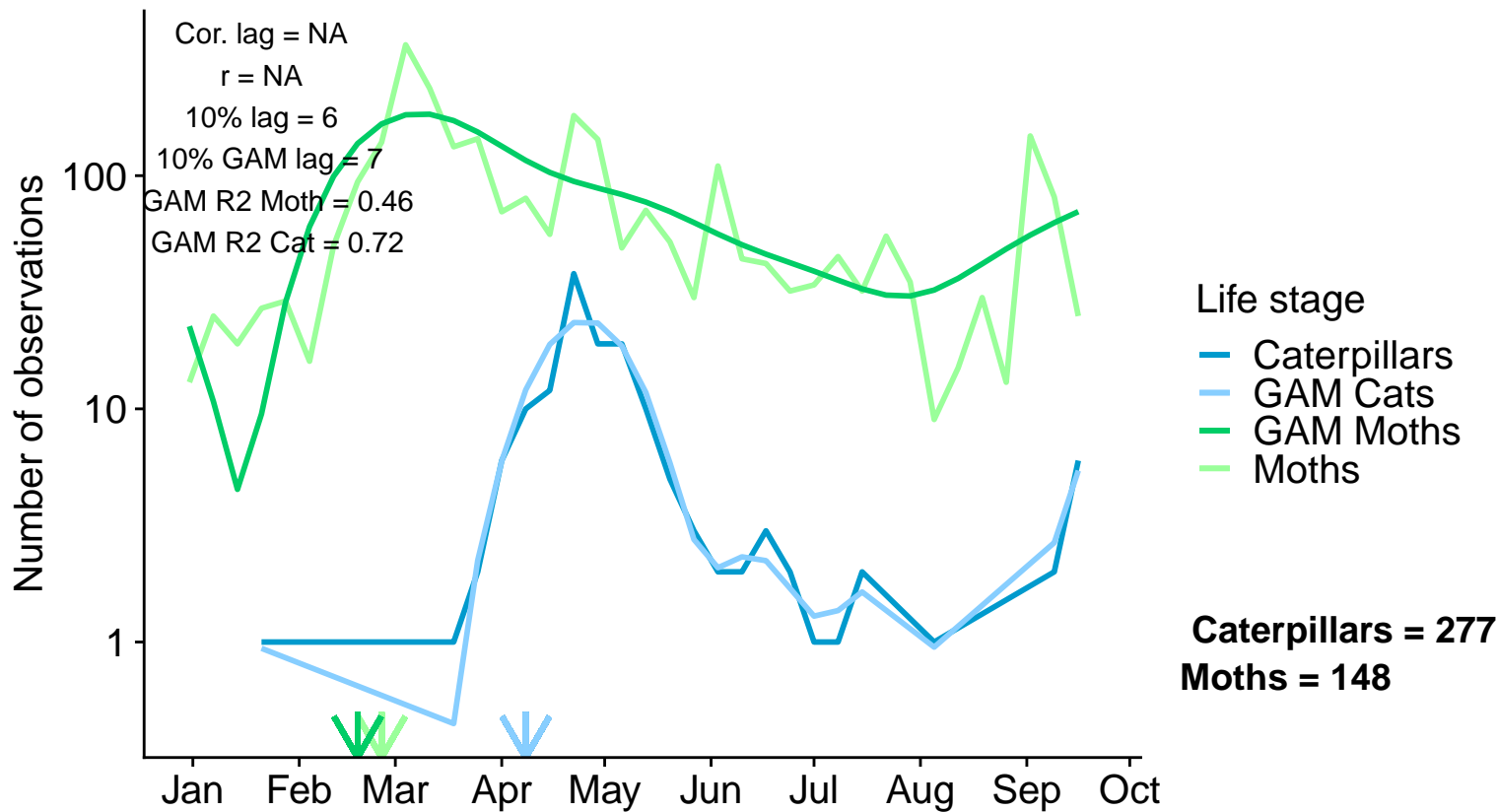
29, -97



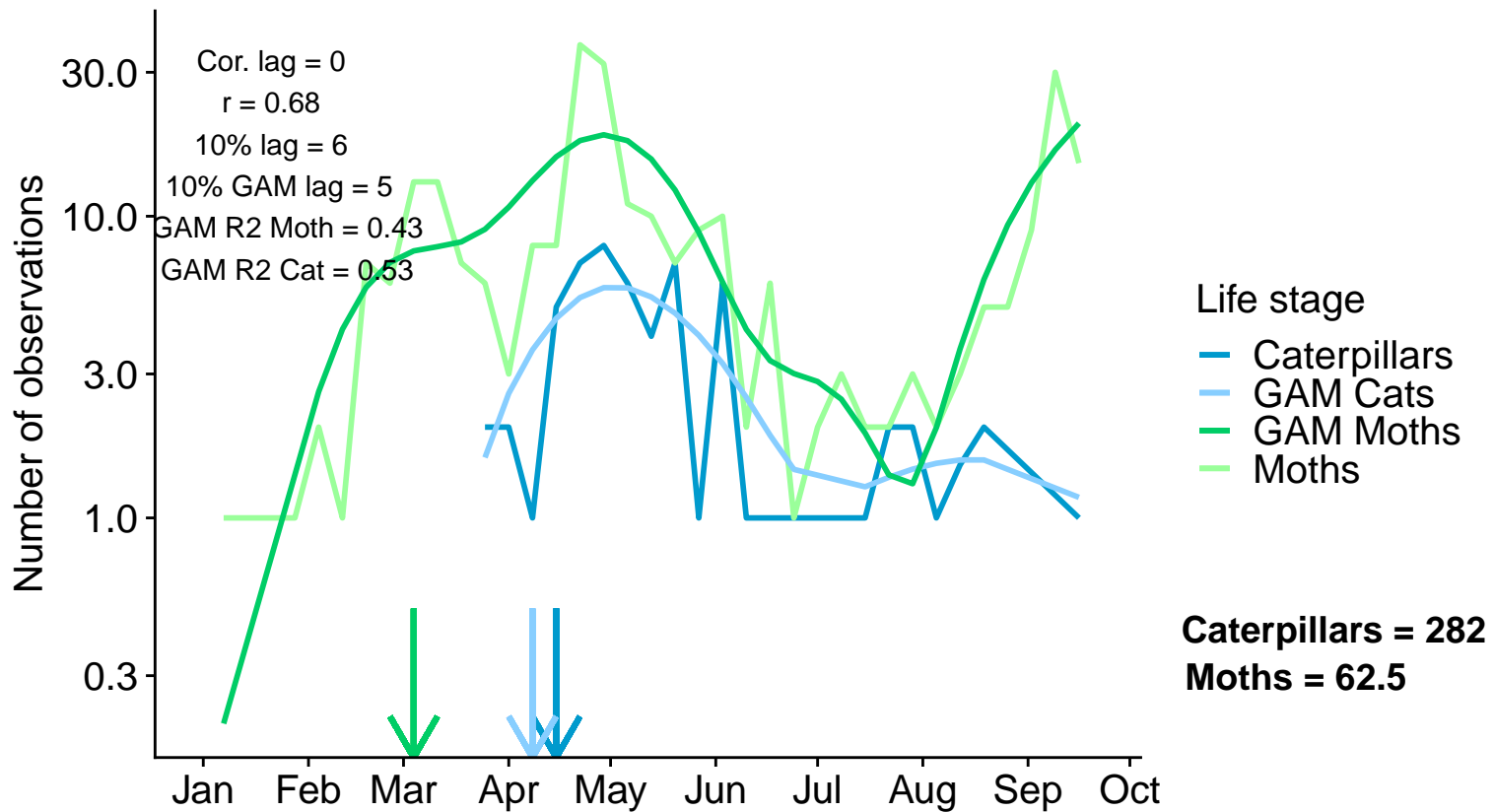
29, -83



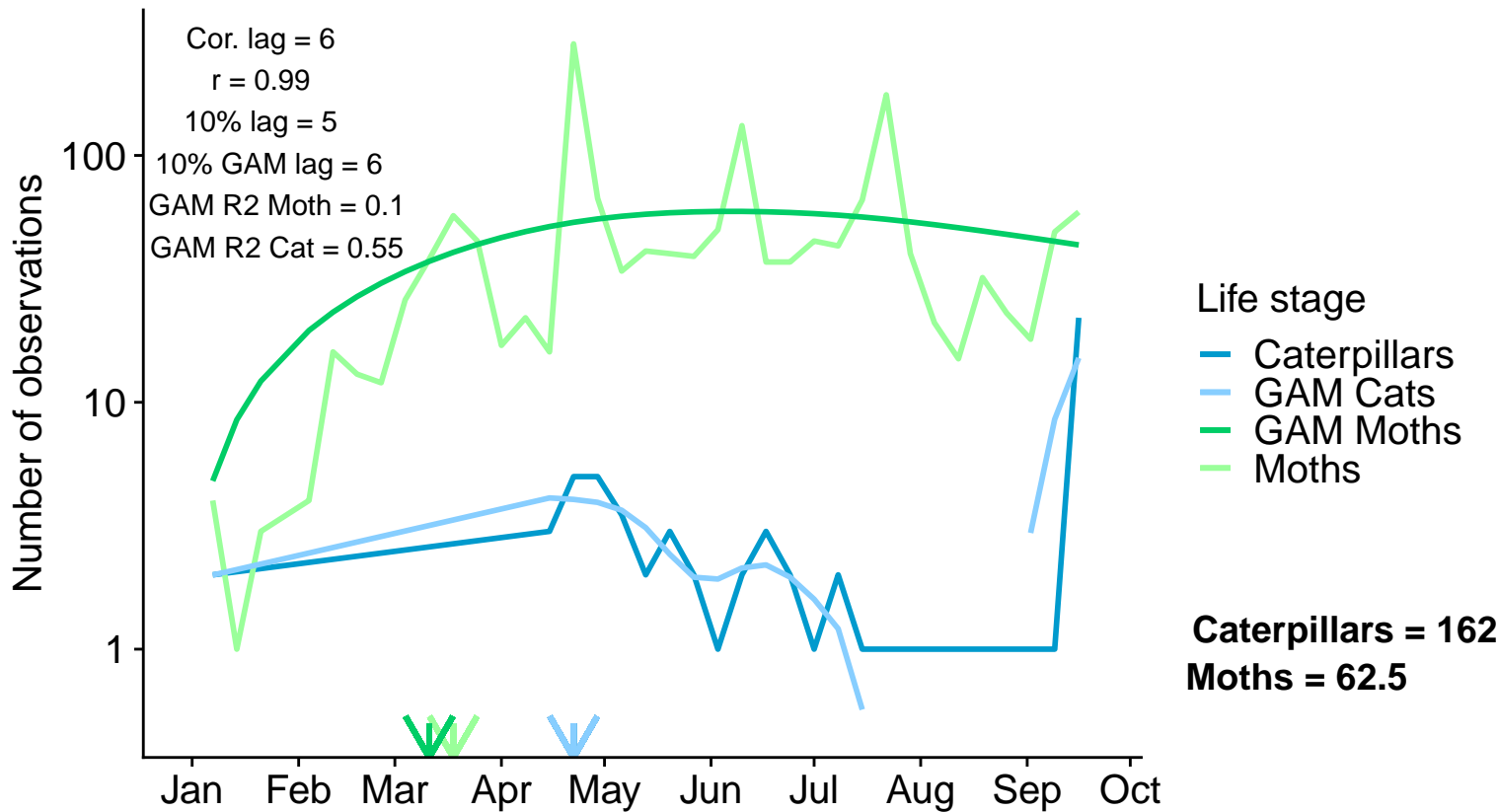
31, -97



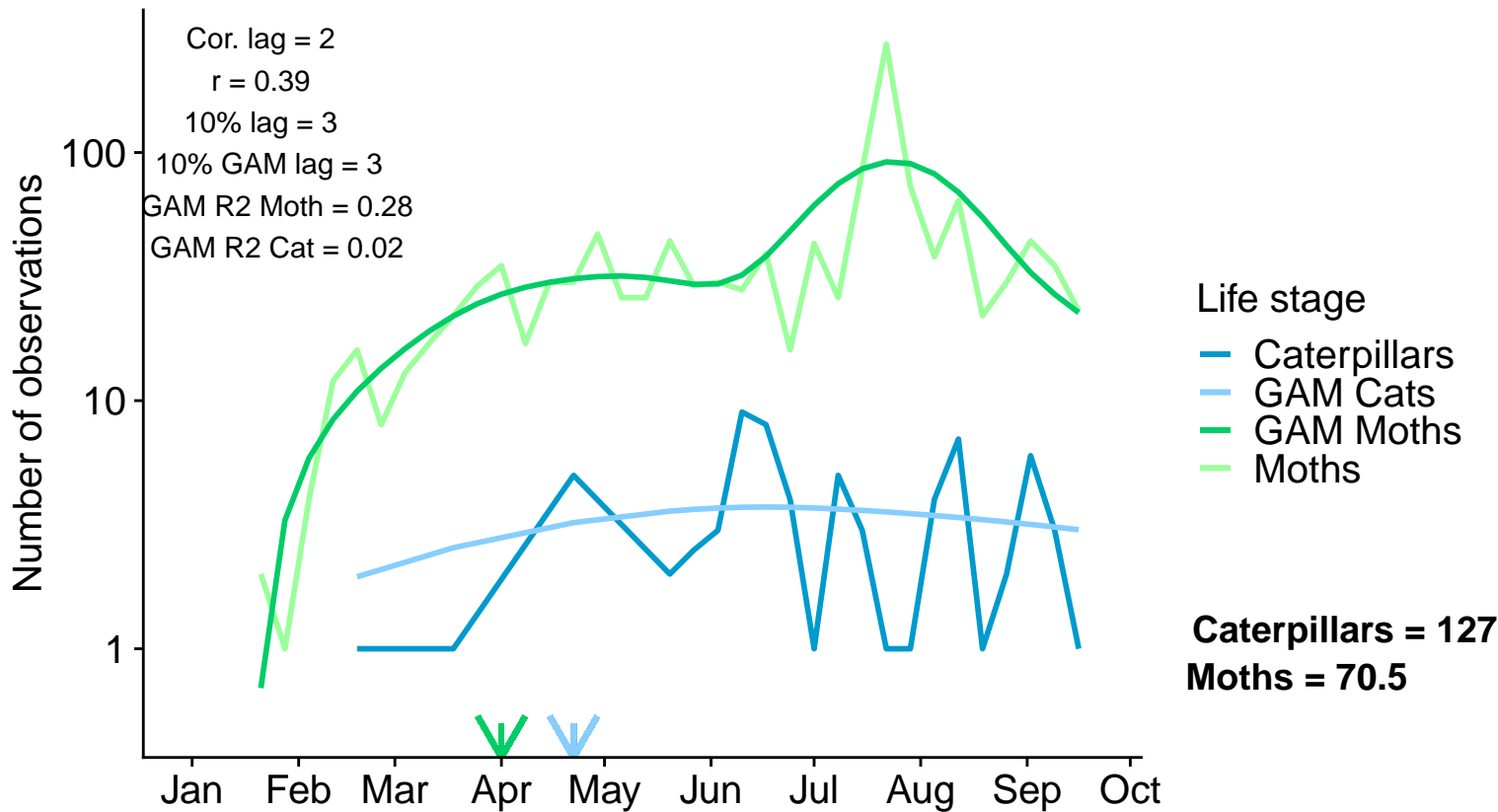
31, -95



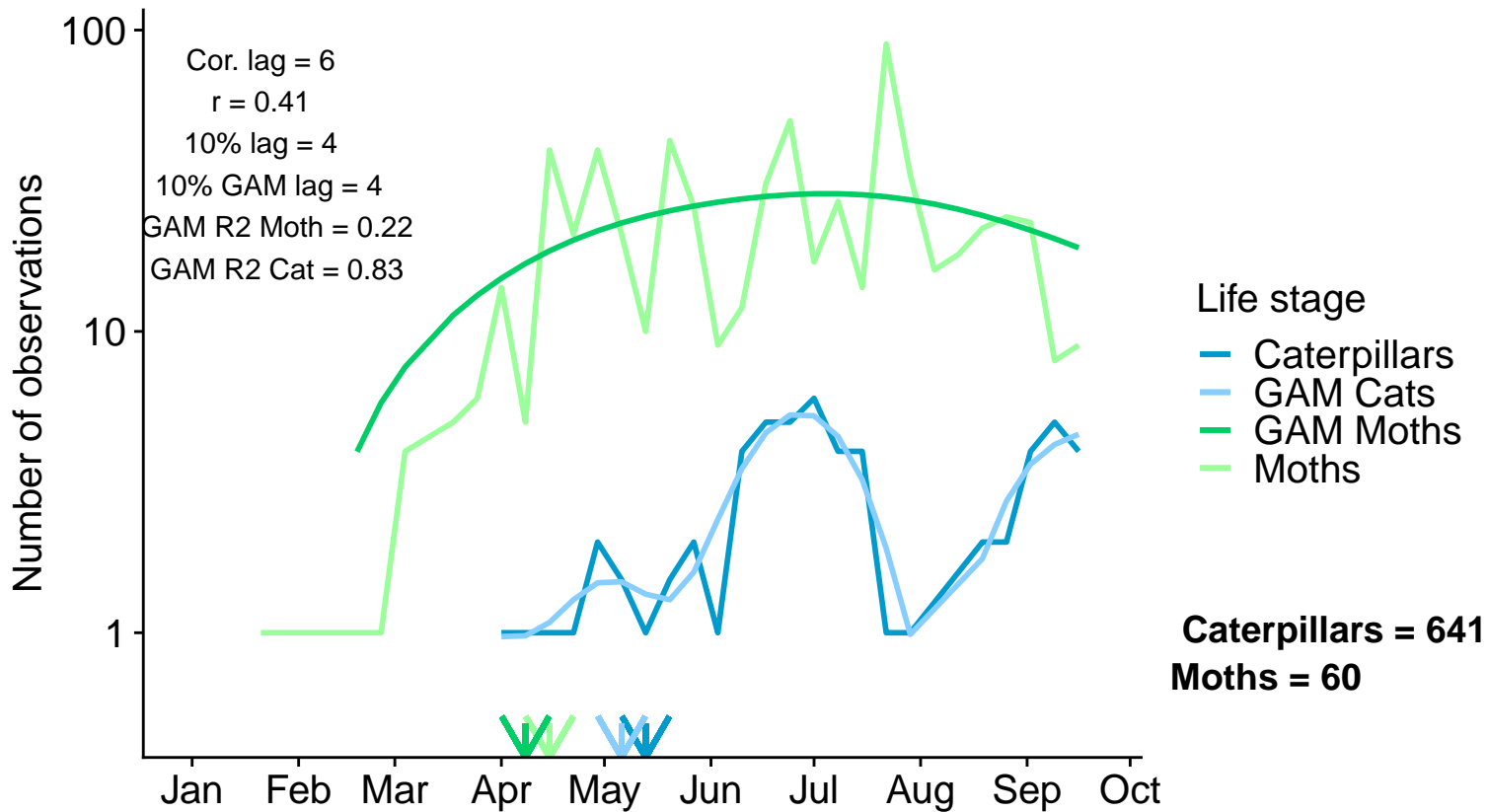
33, -97



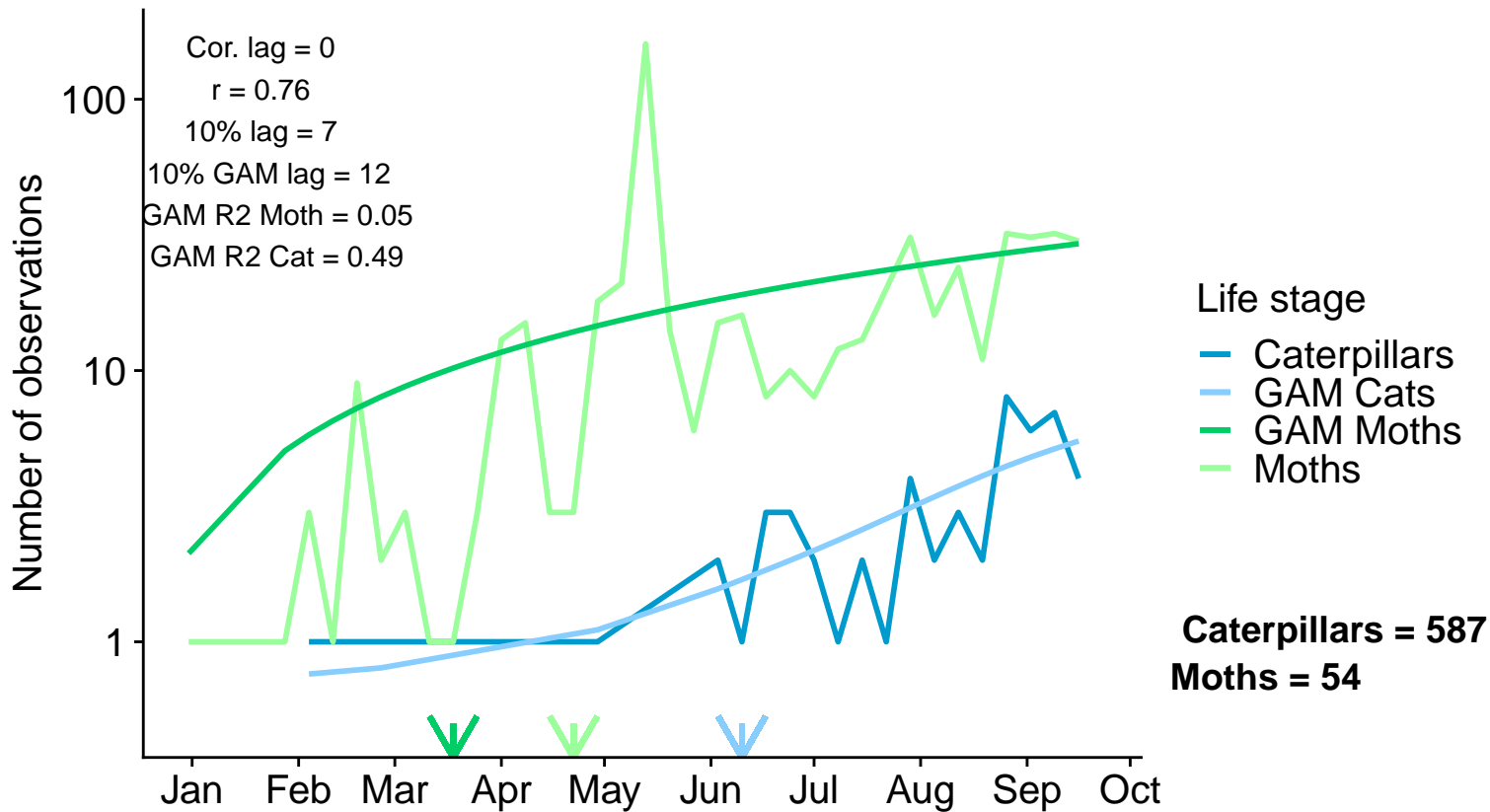
33, -87



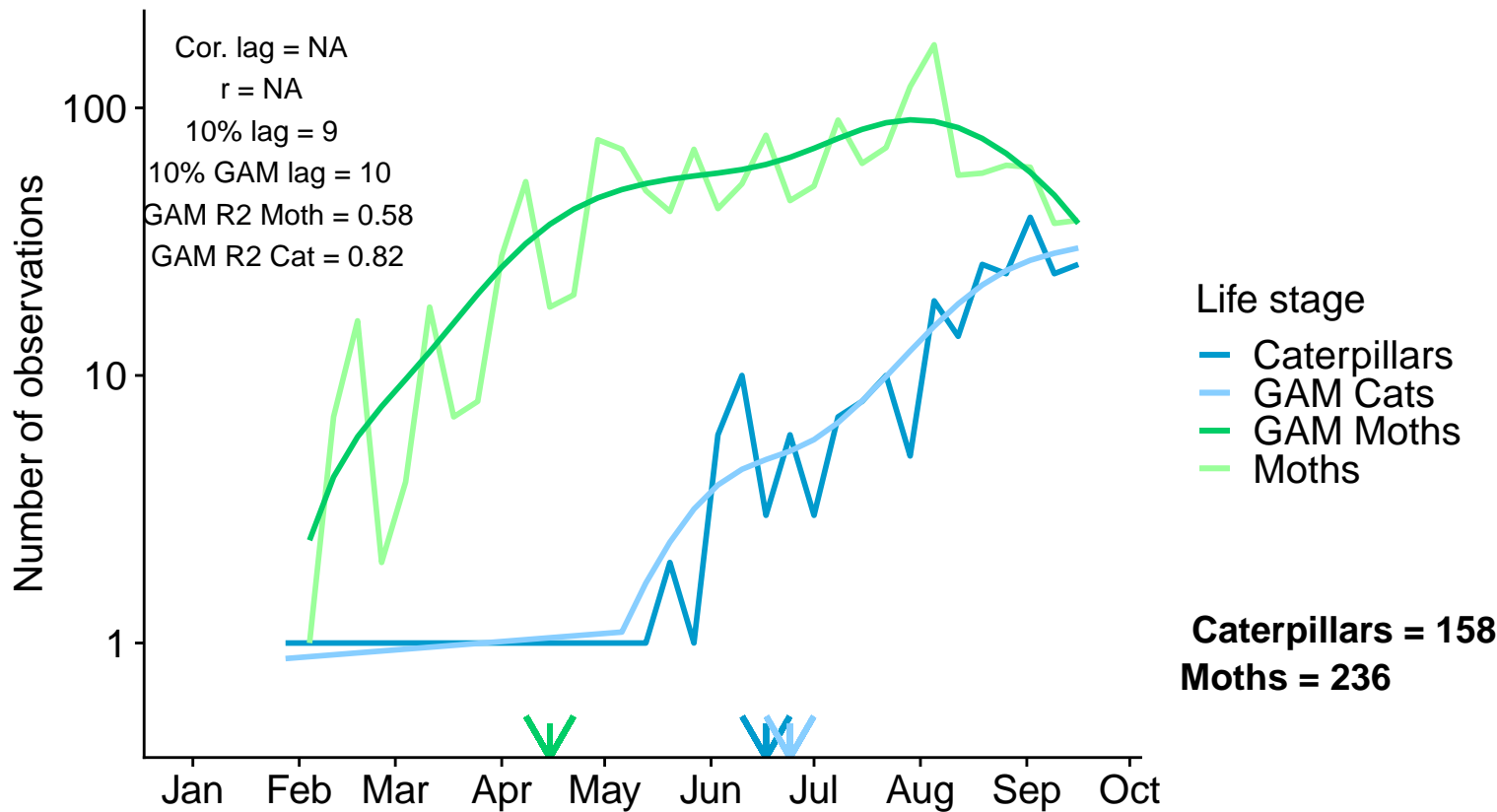
35, -97



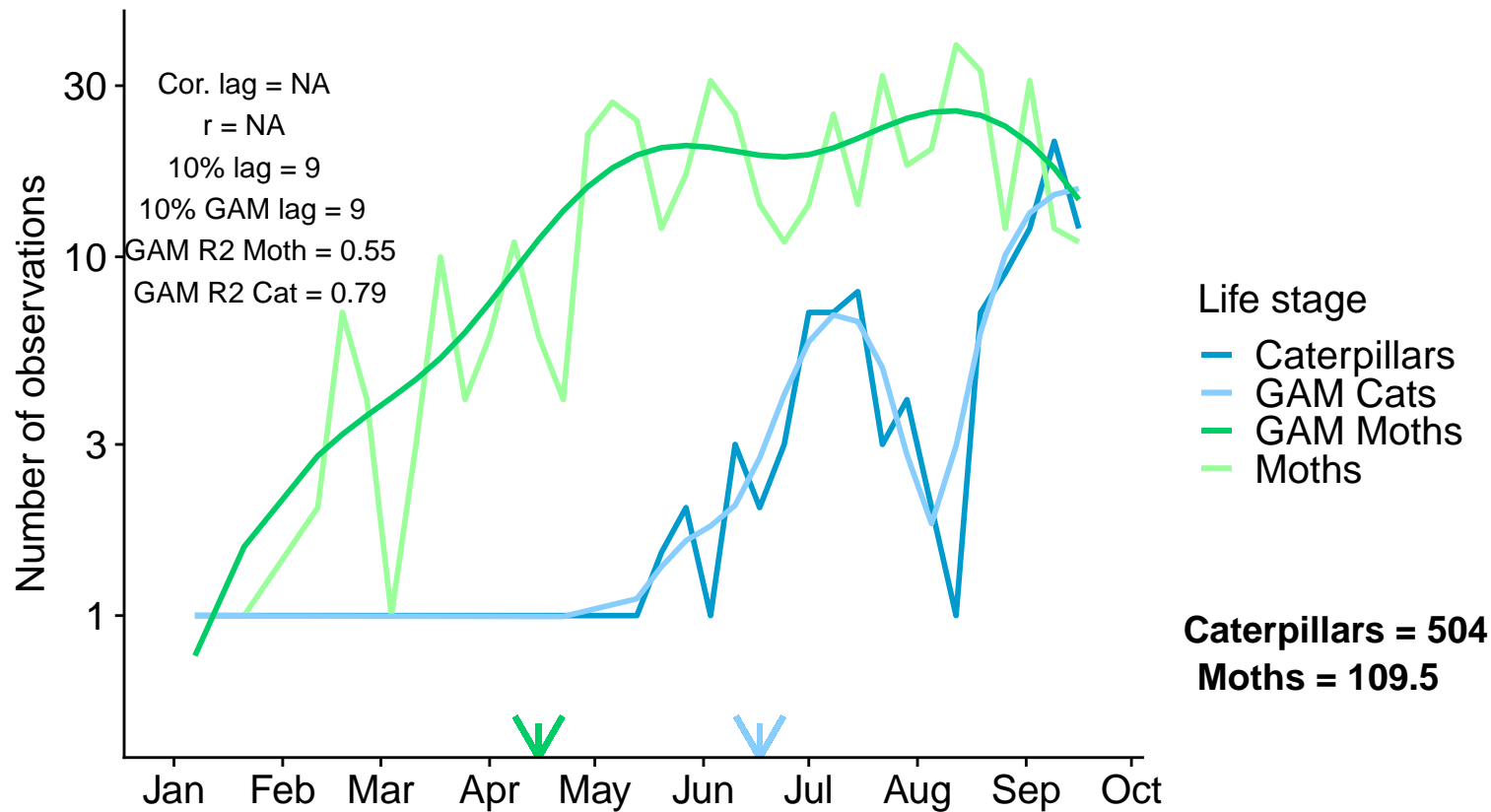
35, -85



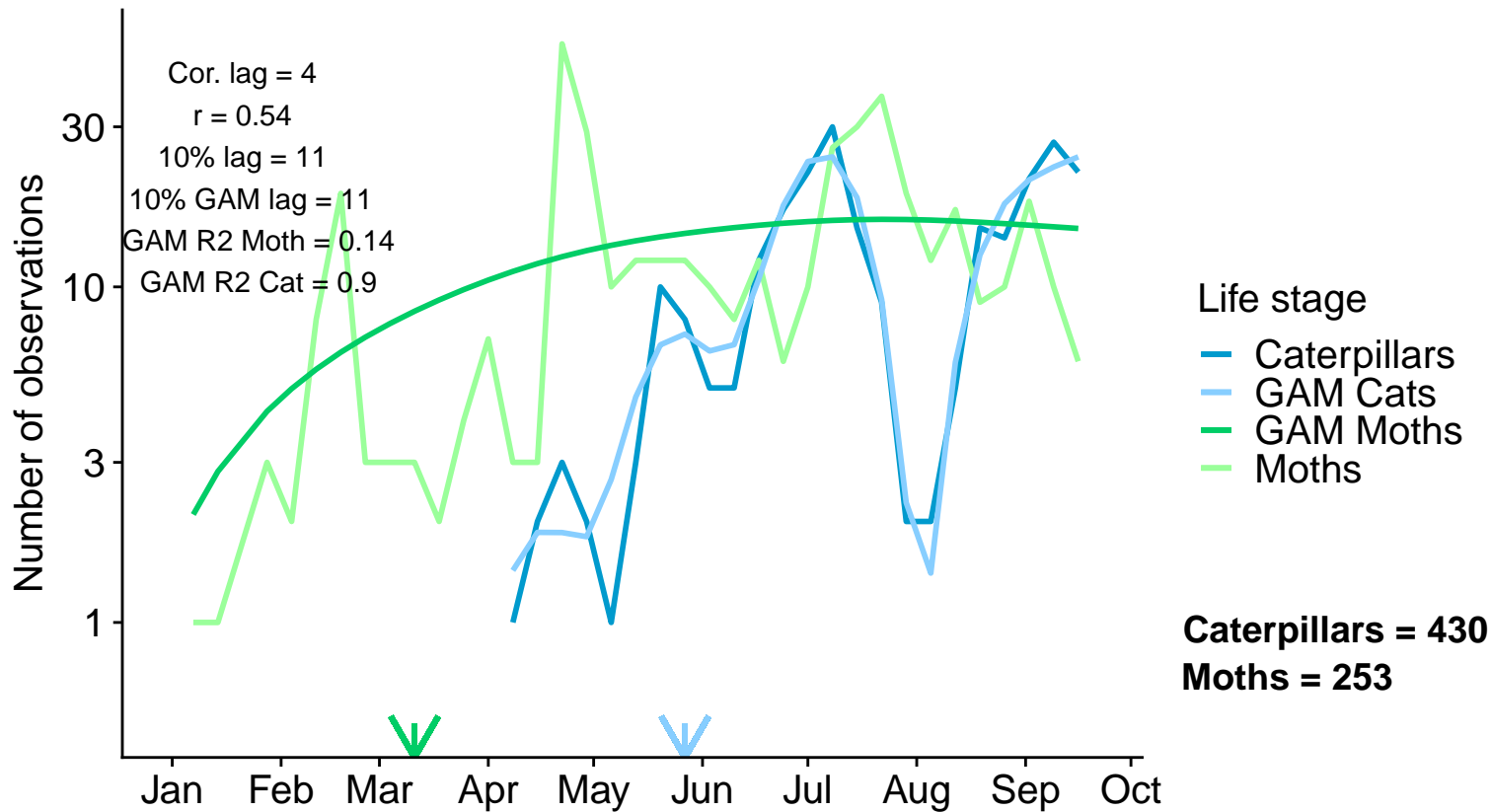
35, -83



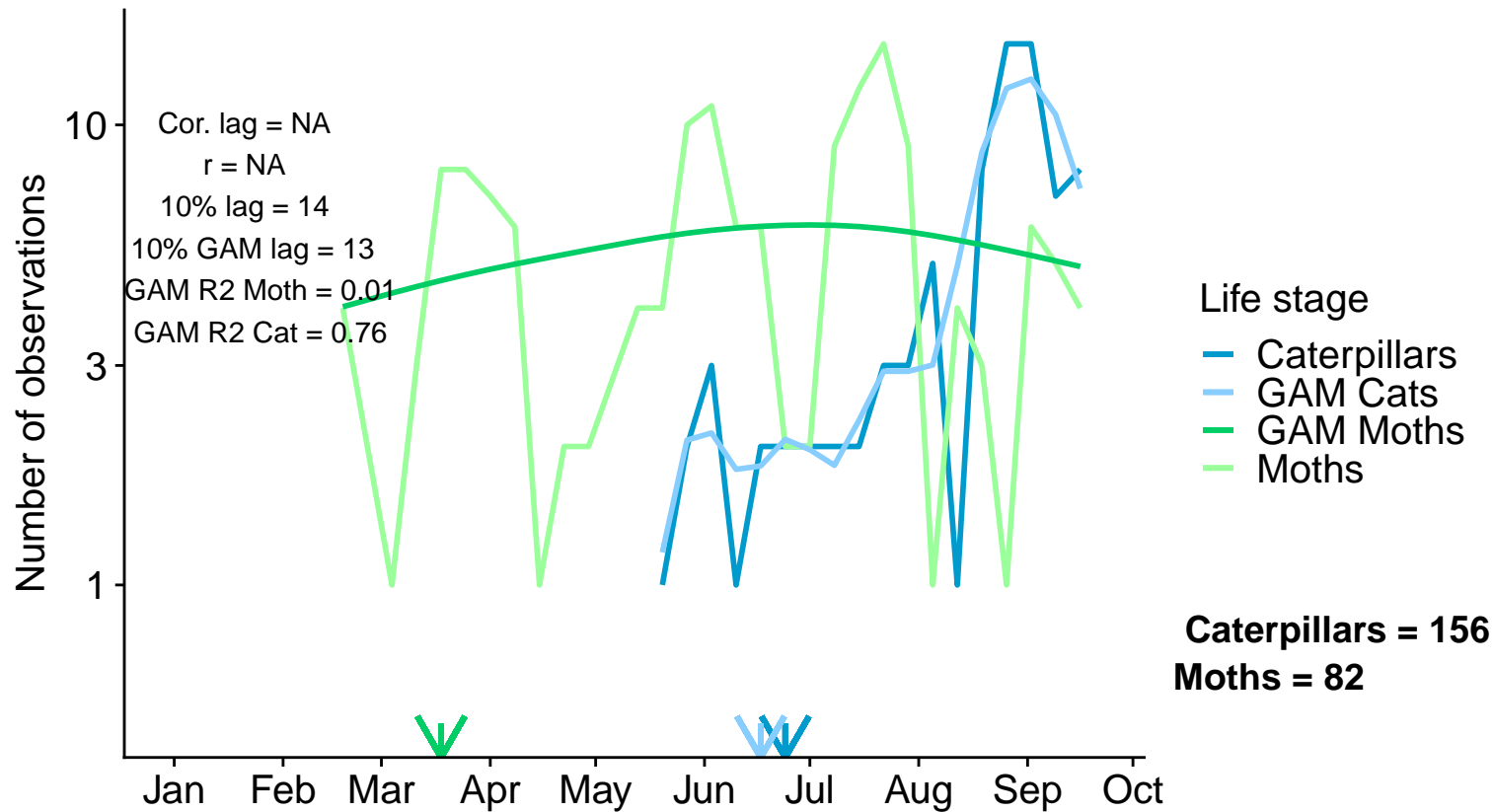
35, -81



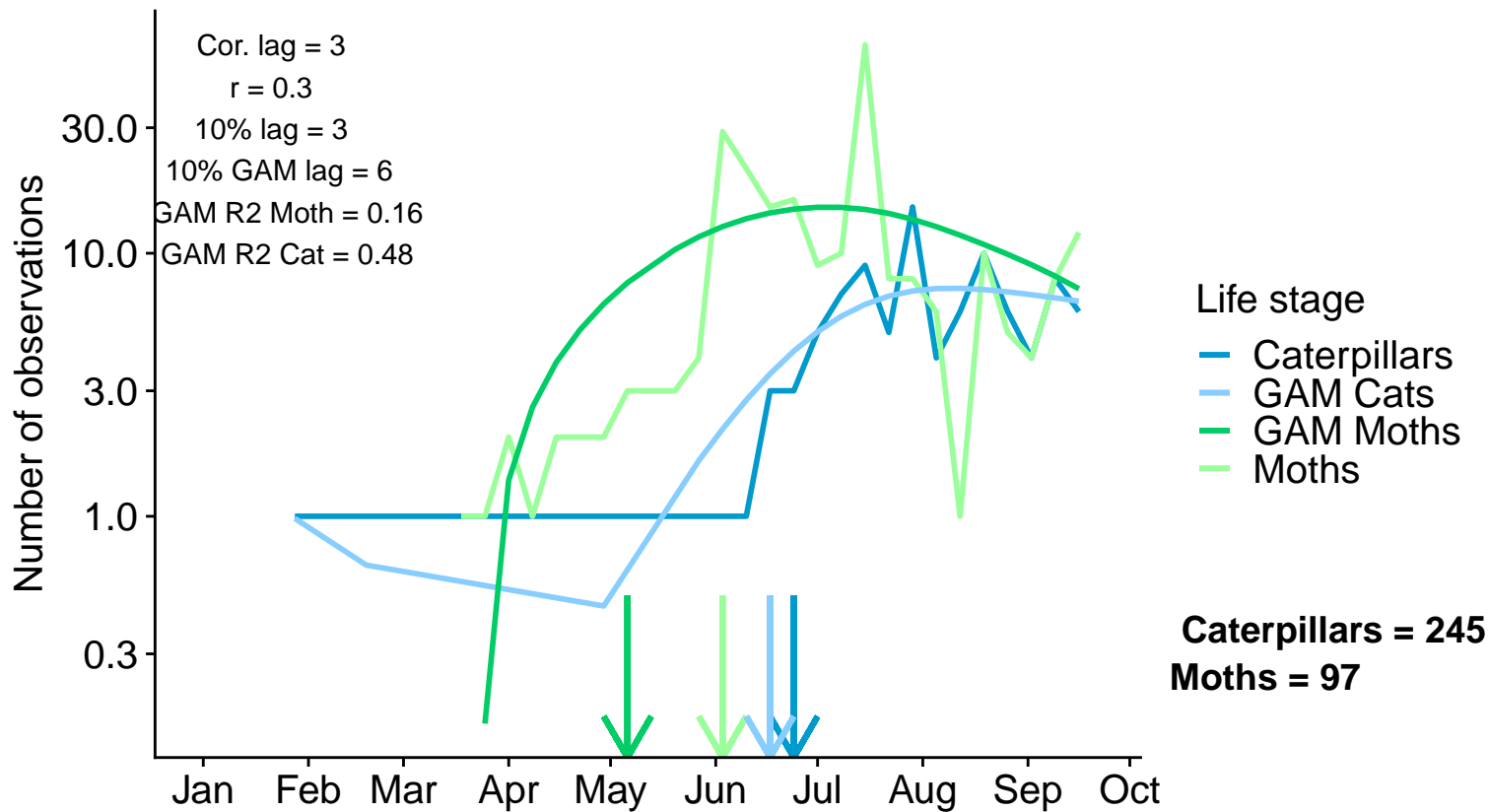
35, -79



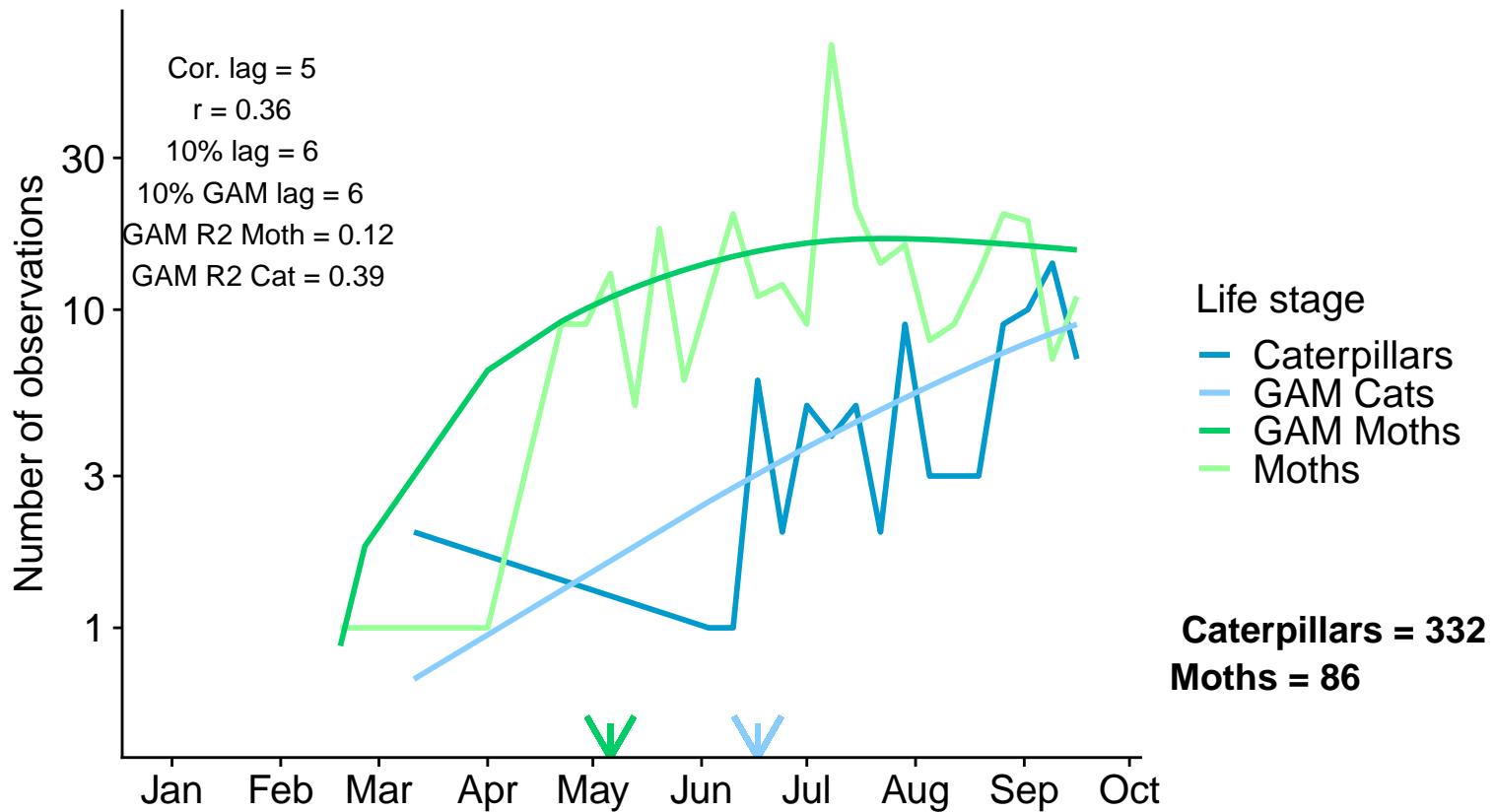
37, -85



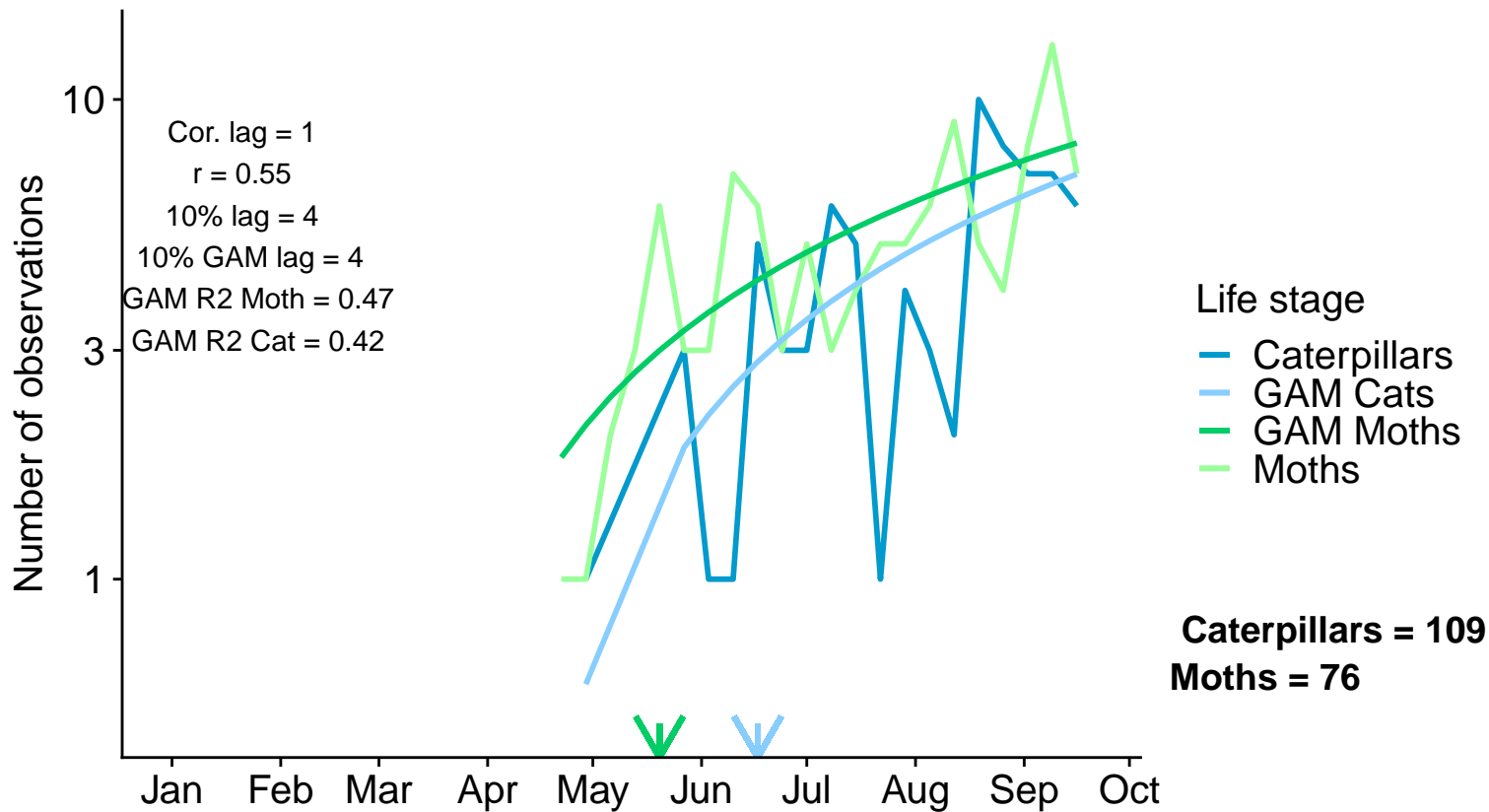
37, -81



37, -79



39, -87



39, -85

Cor. lag = 4

$r = 0.71$

10% lag = 7

10% GAM lag = 6

GAM R2 Moth = 0.72

GAM R2 Cat = 0.66

Number of observations

10.0

1.0

0.1

Jan Feb Mar Apr May Jun Jul Aug Sep Oct

Life stage

Caterpillars

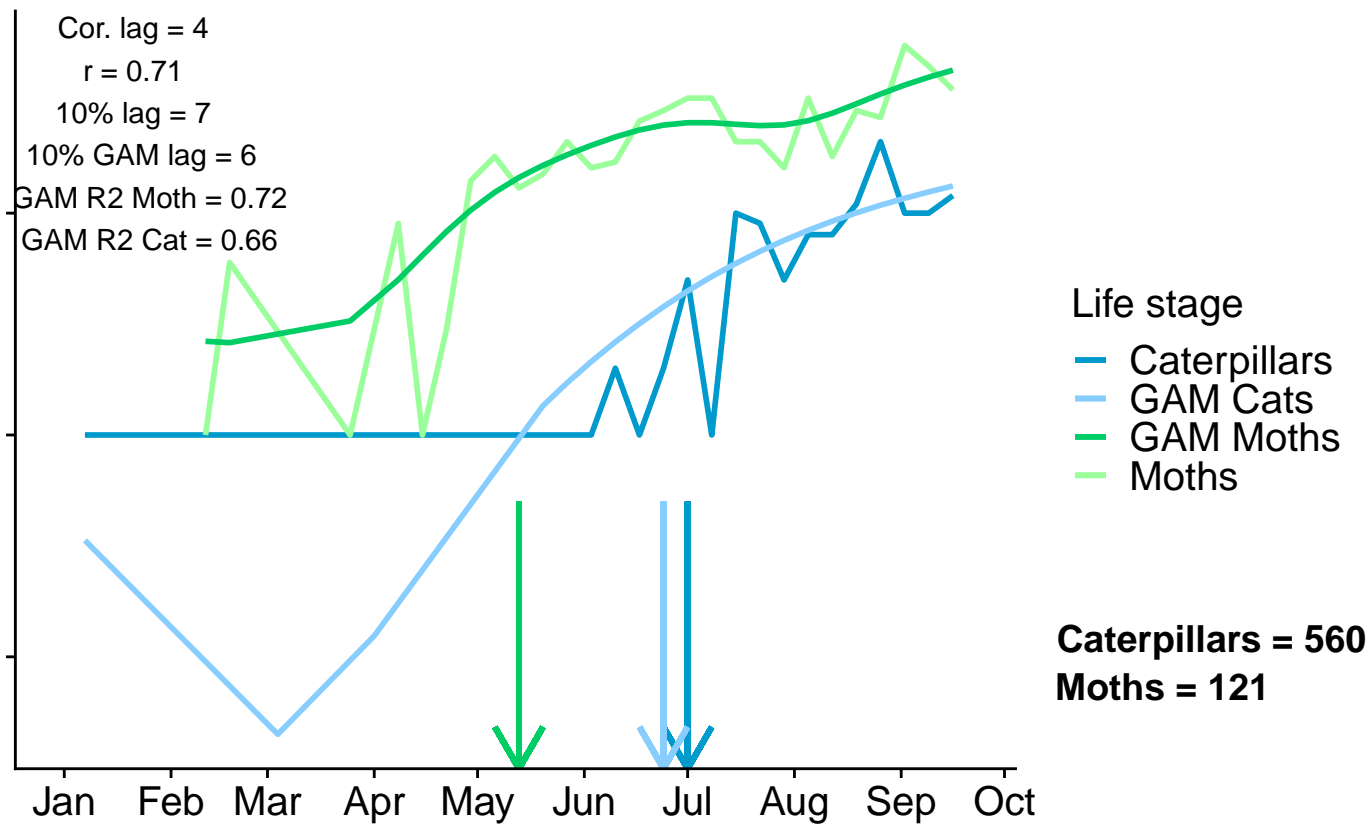
GAM Cats

GAM Moths

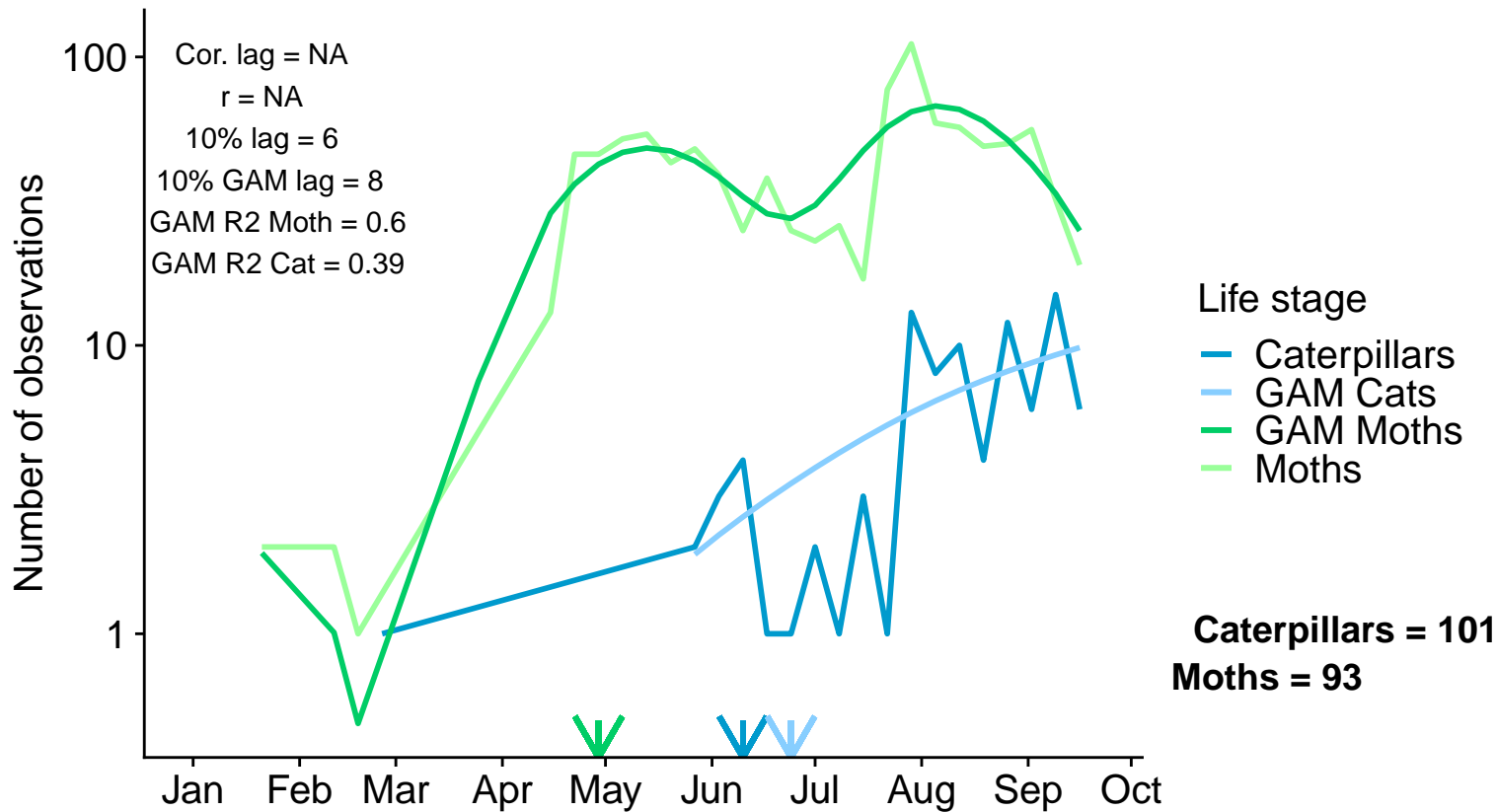
Moths

Caterpillars = 560

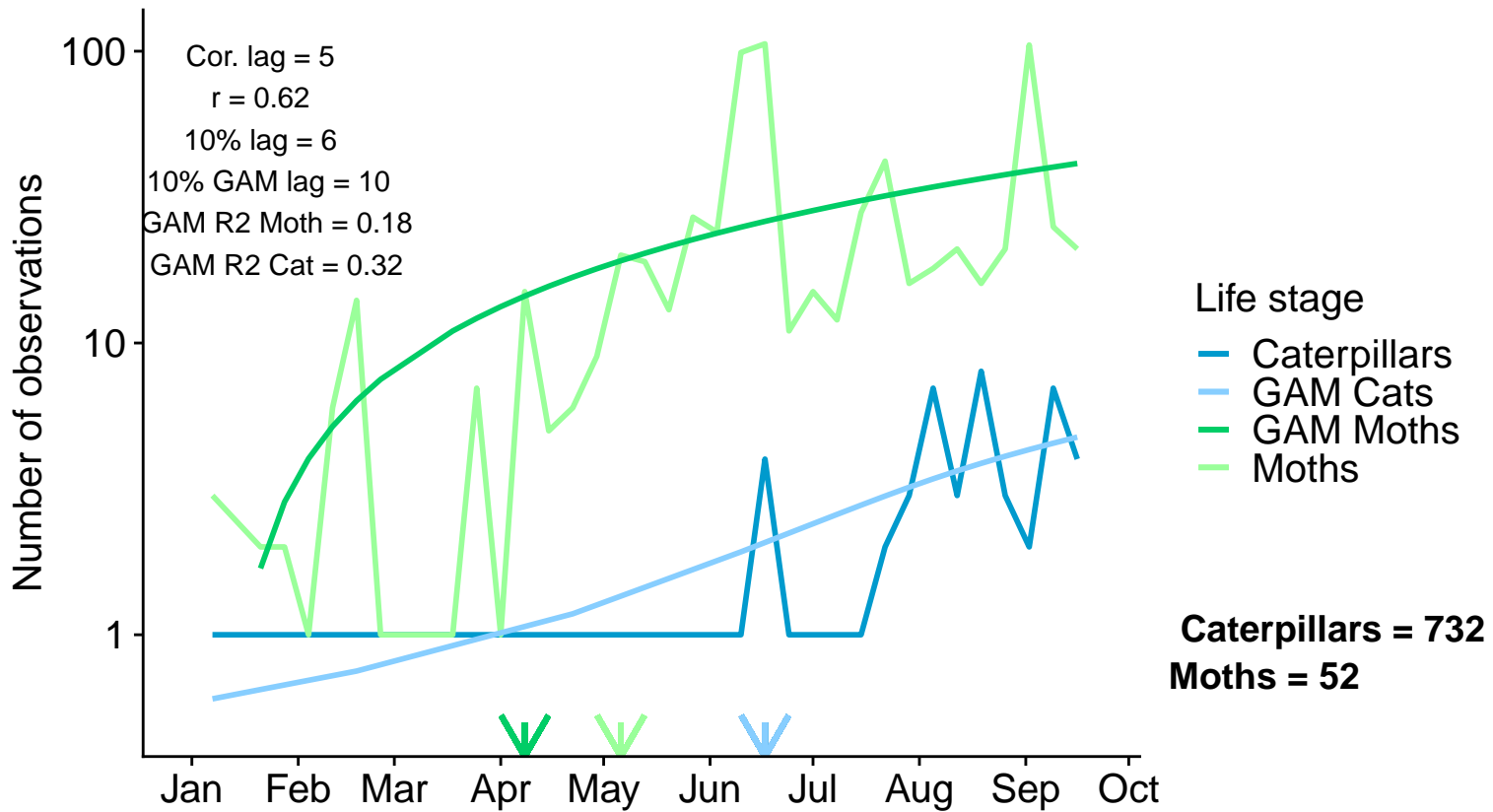
Moths = 121



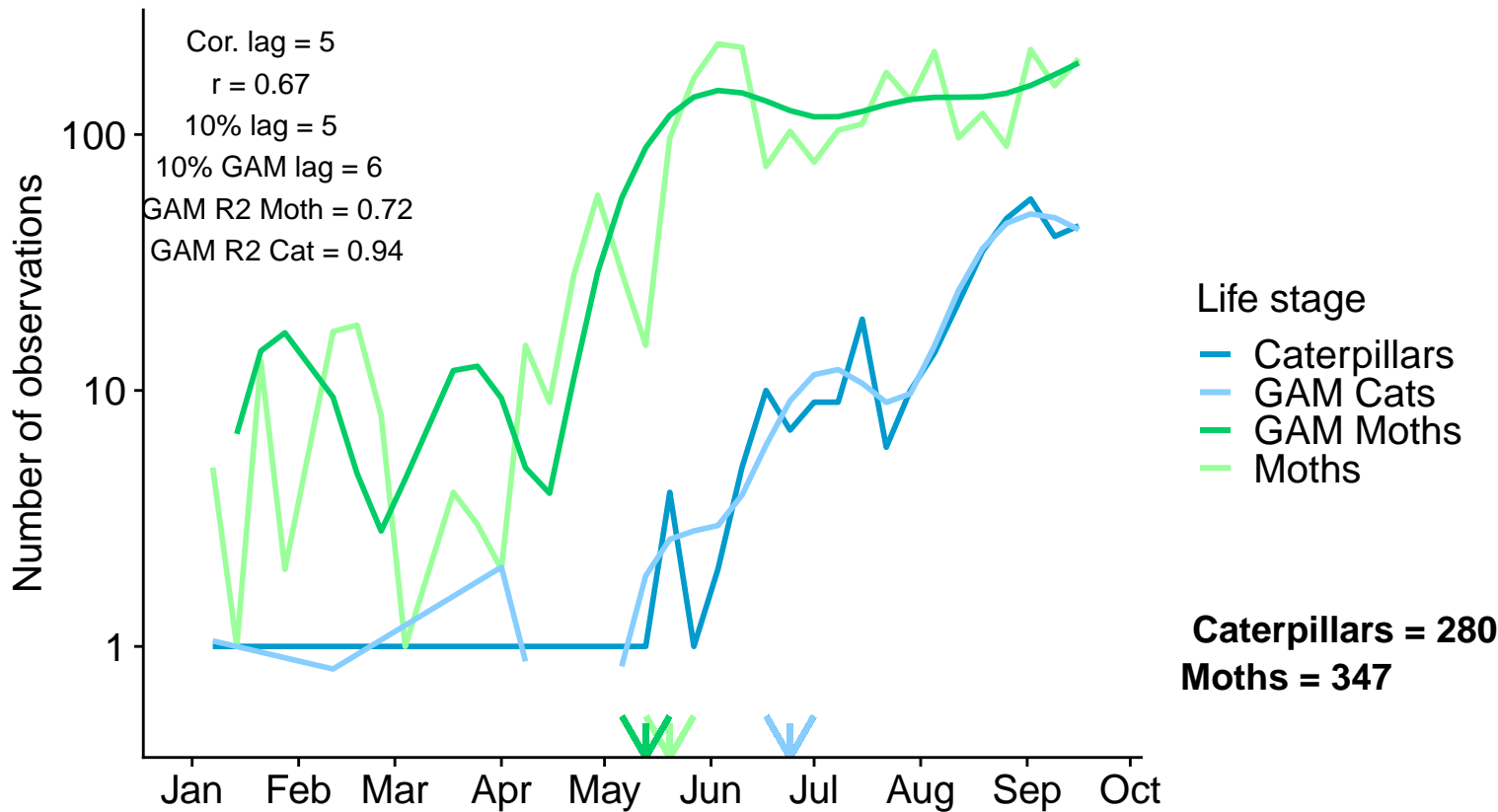
39, -83



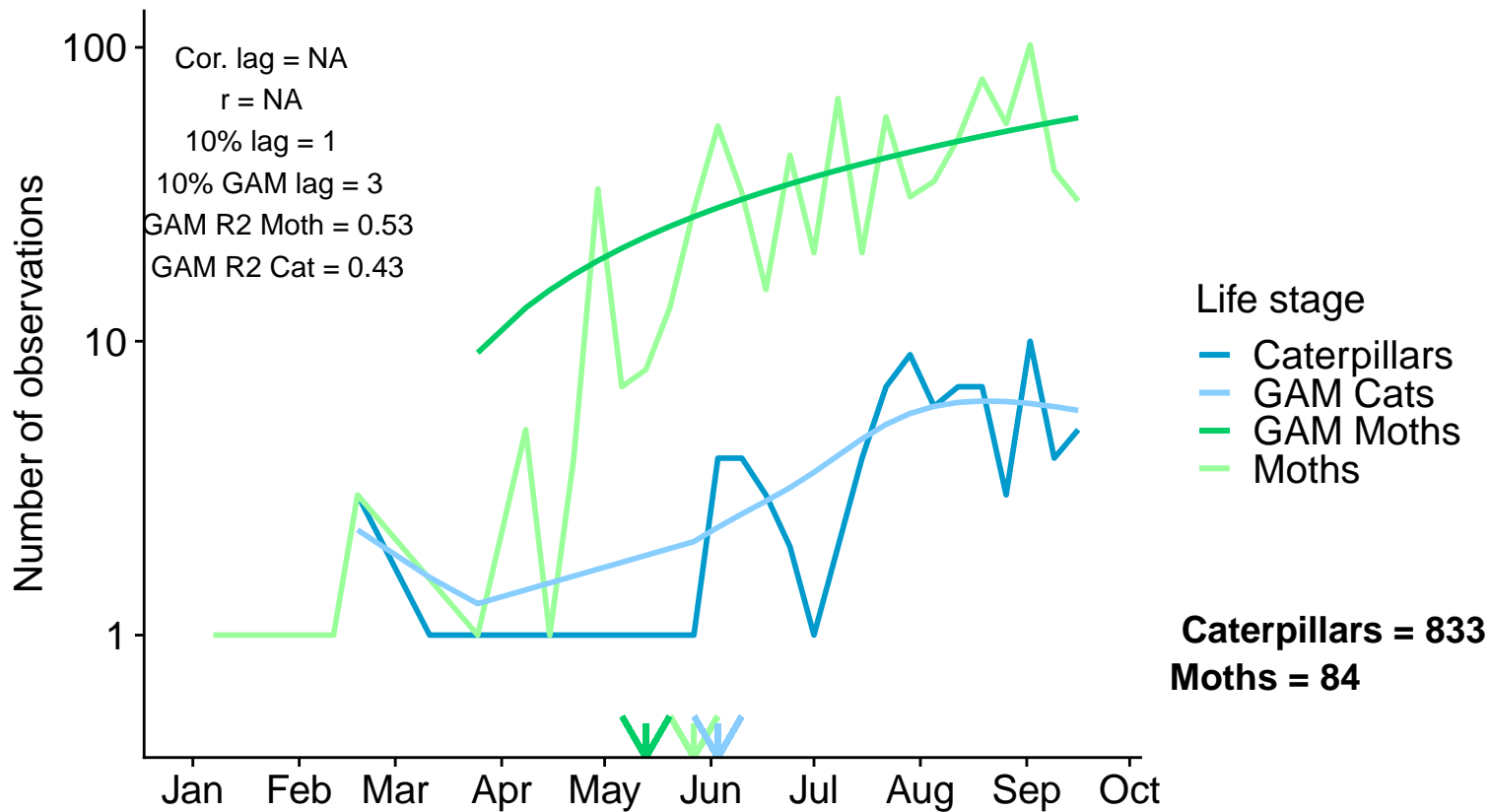
39, -79



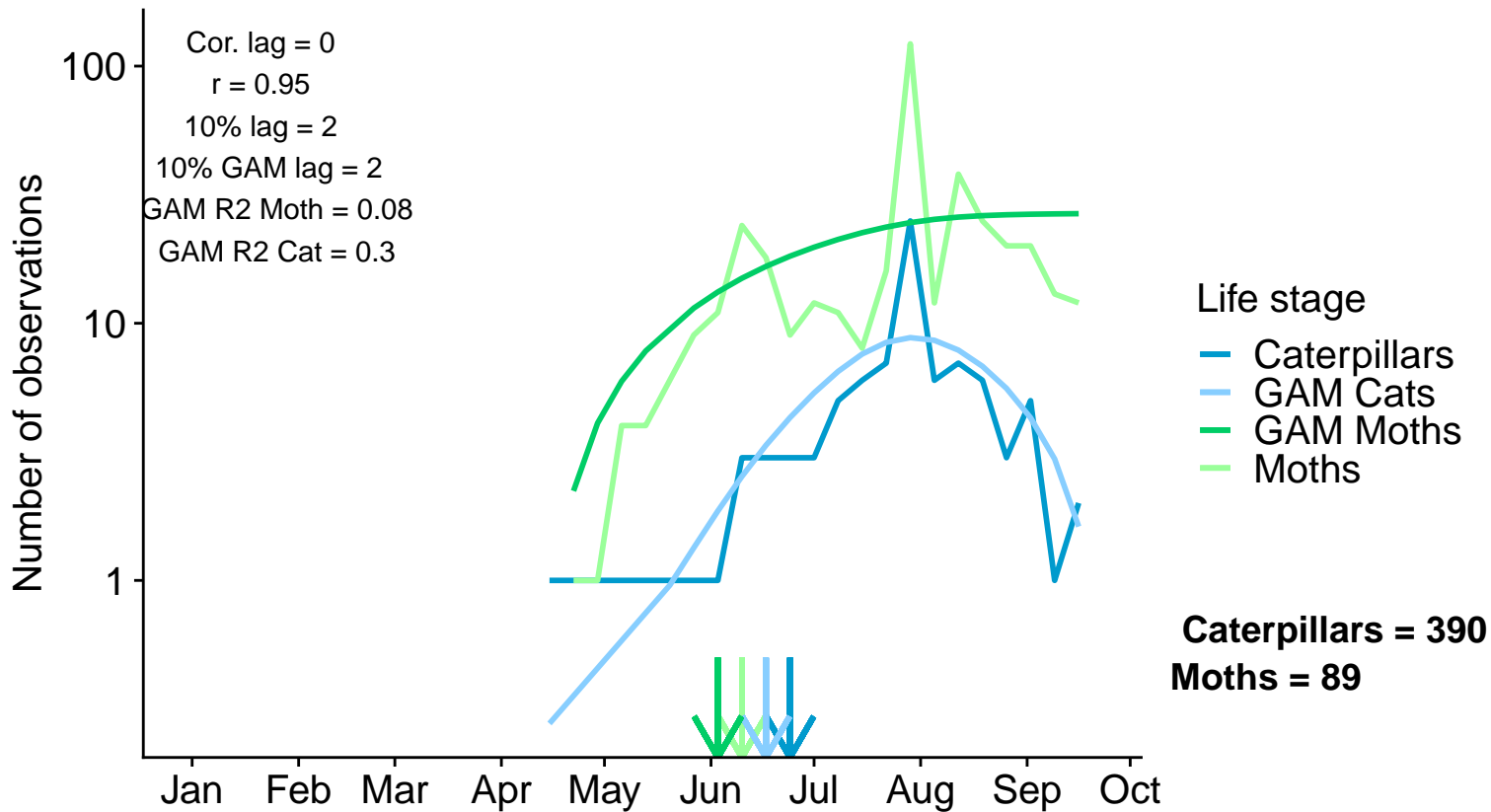
39, -77



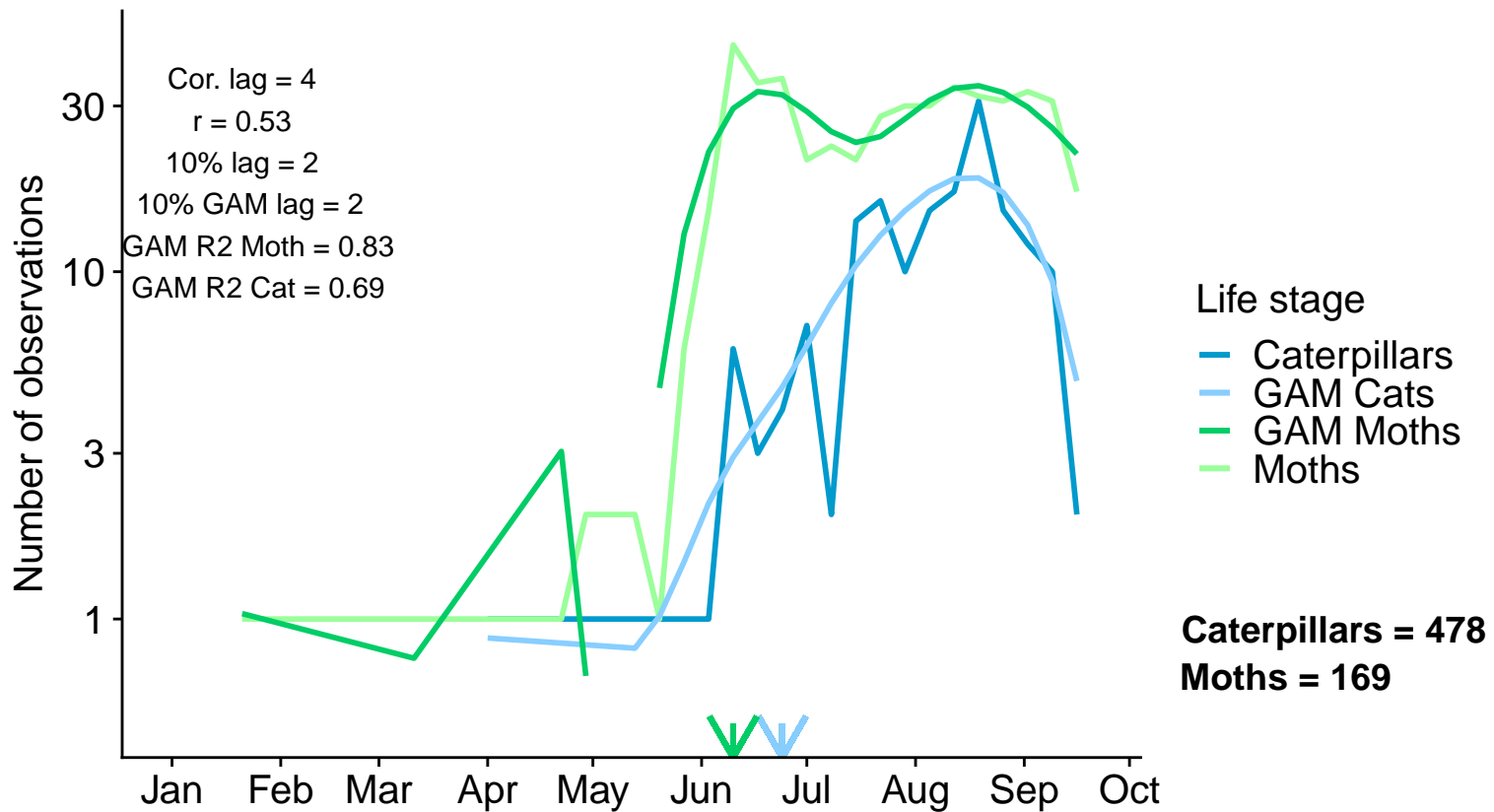
39, -75



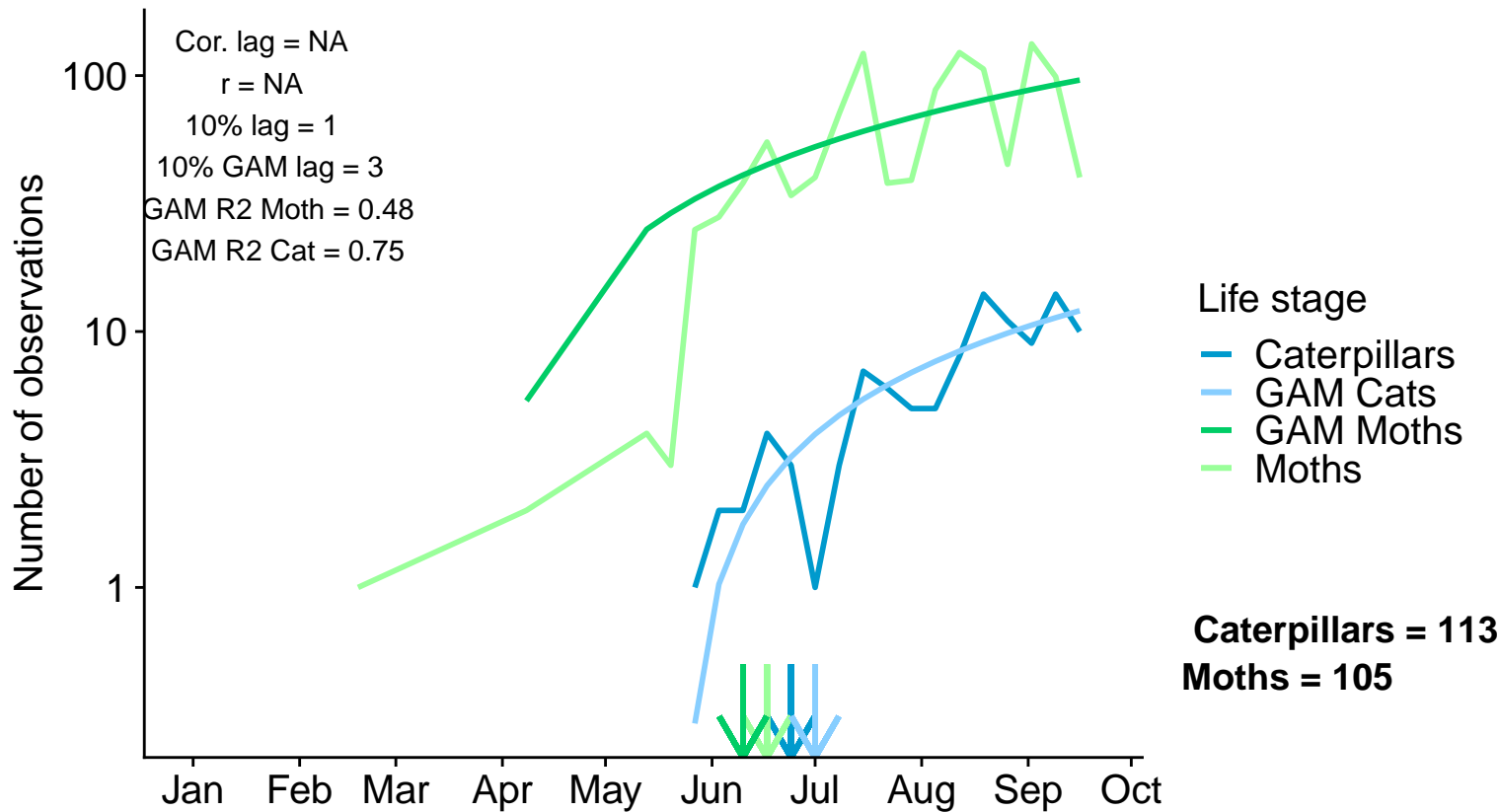
41, -89



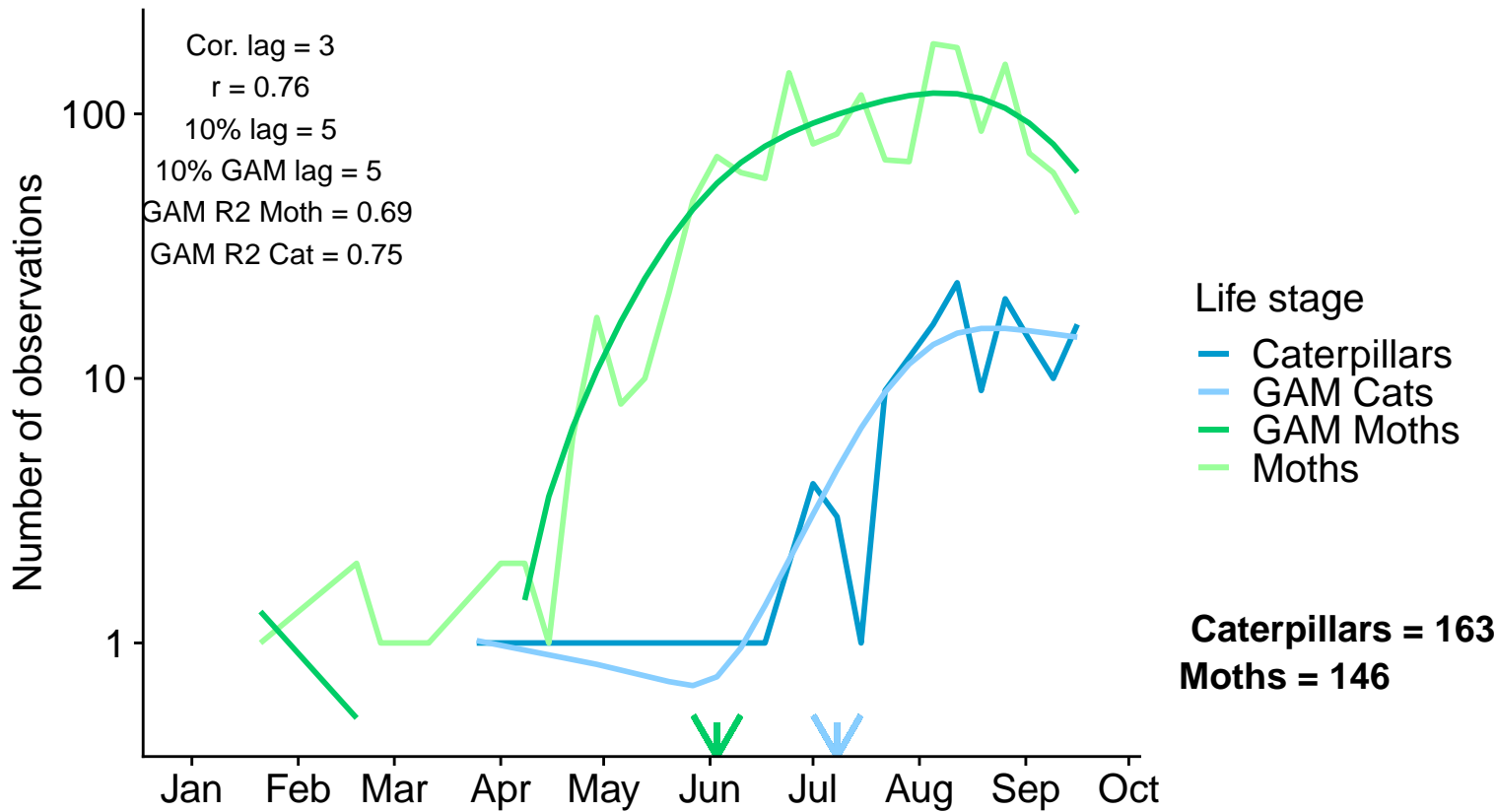
41, -87



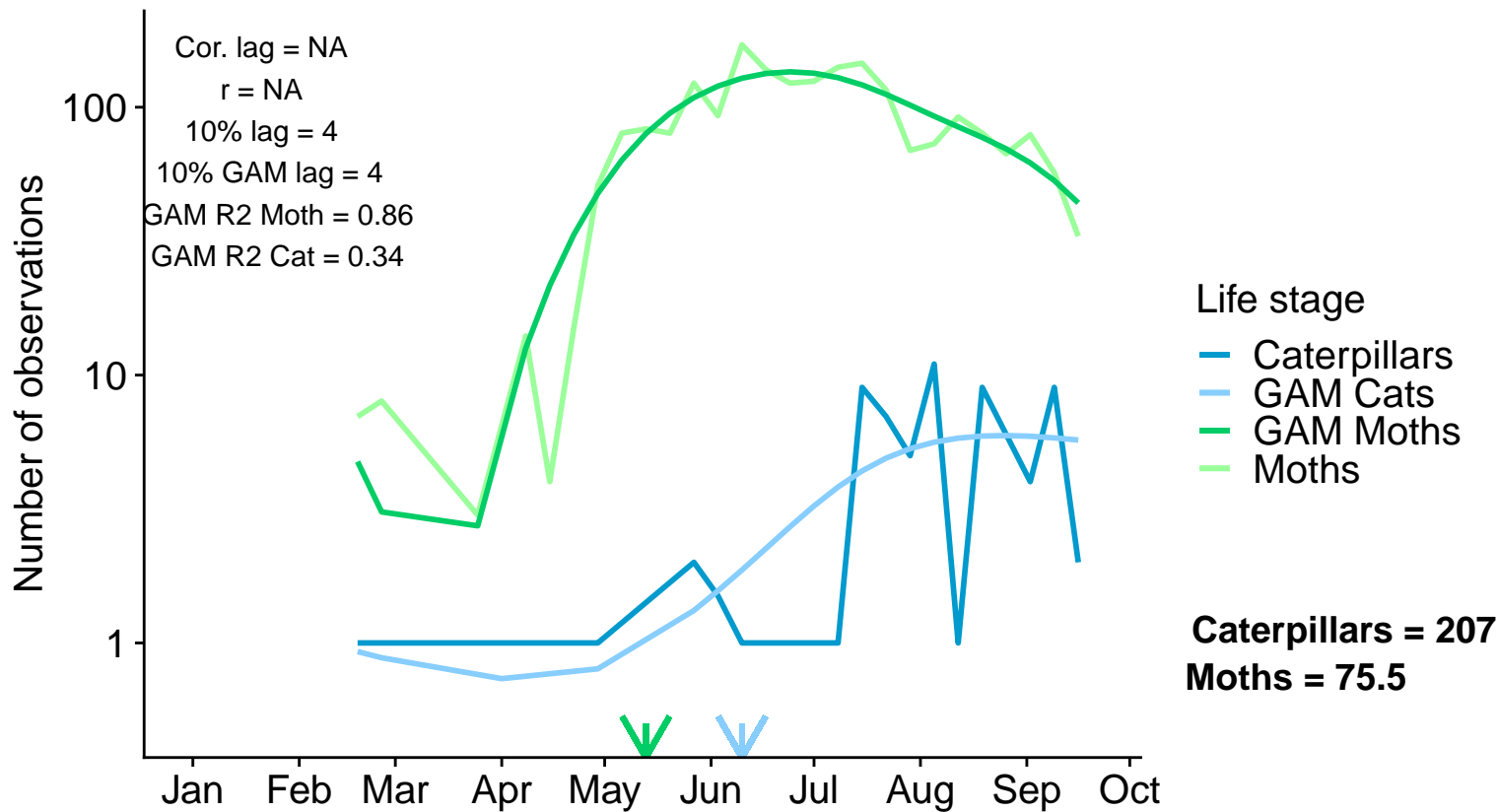
41, -83



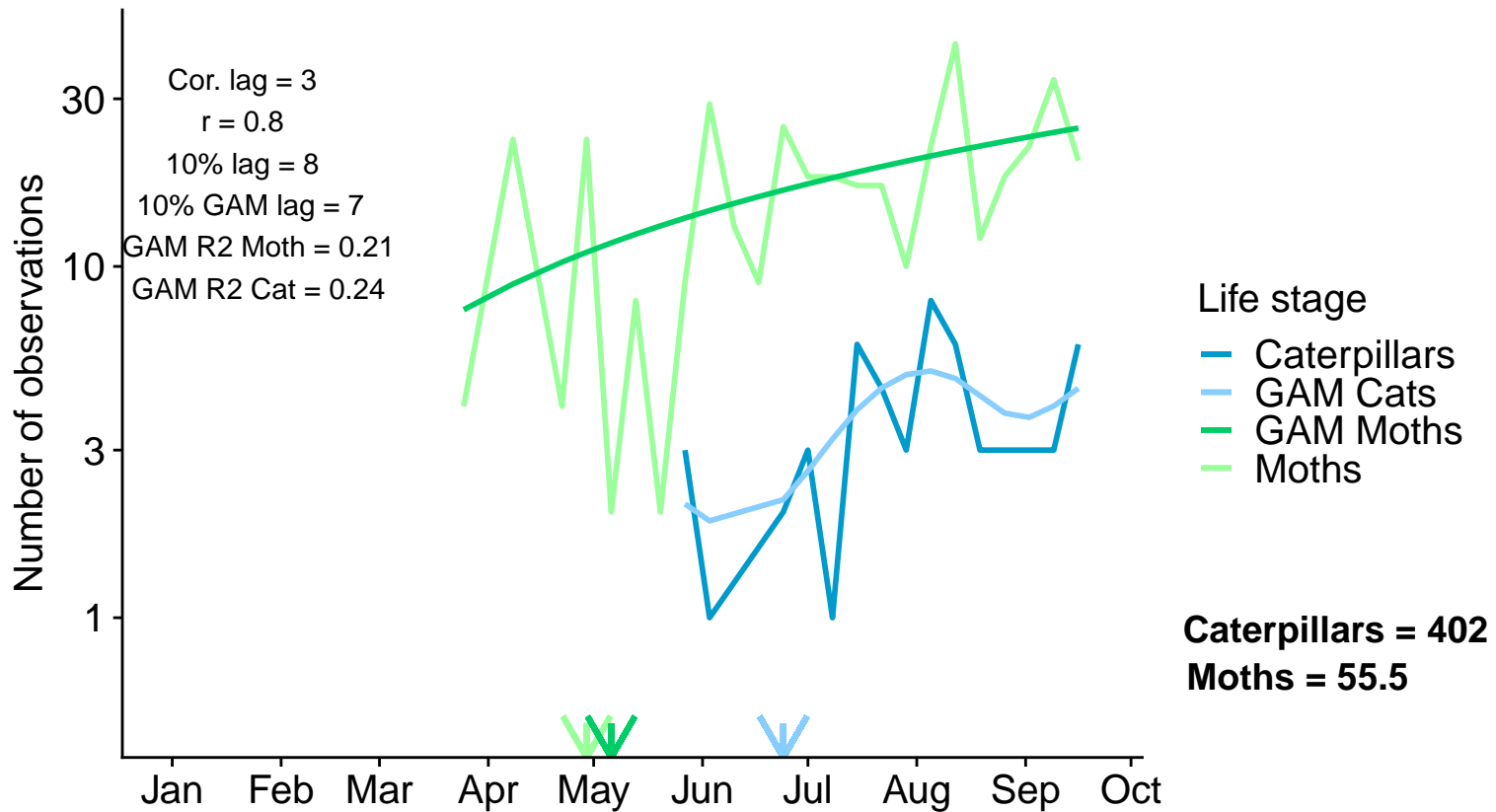
41, -81



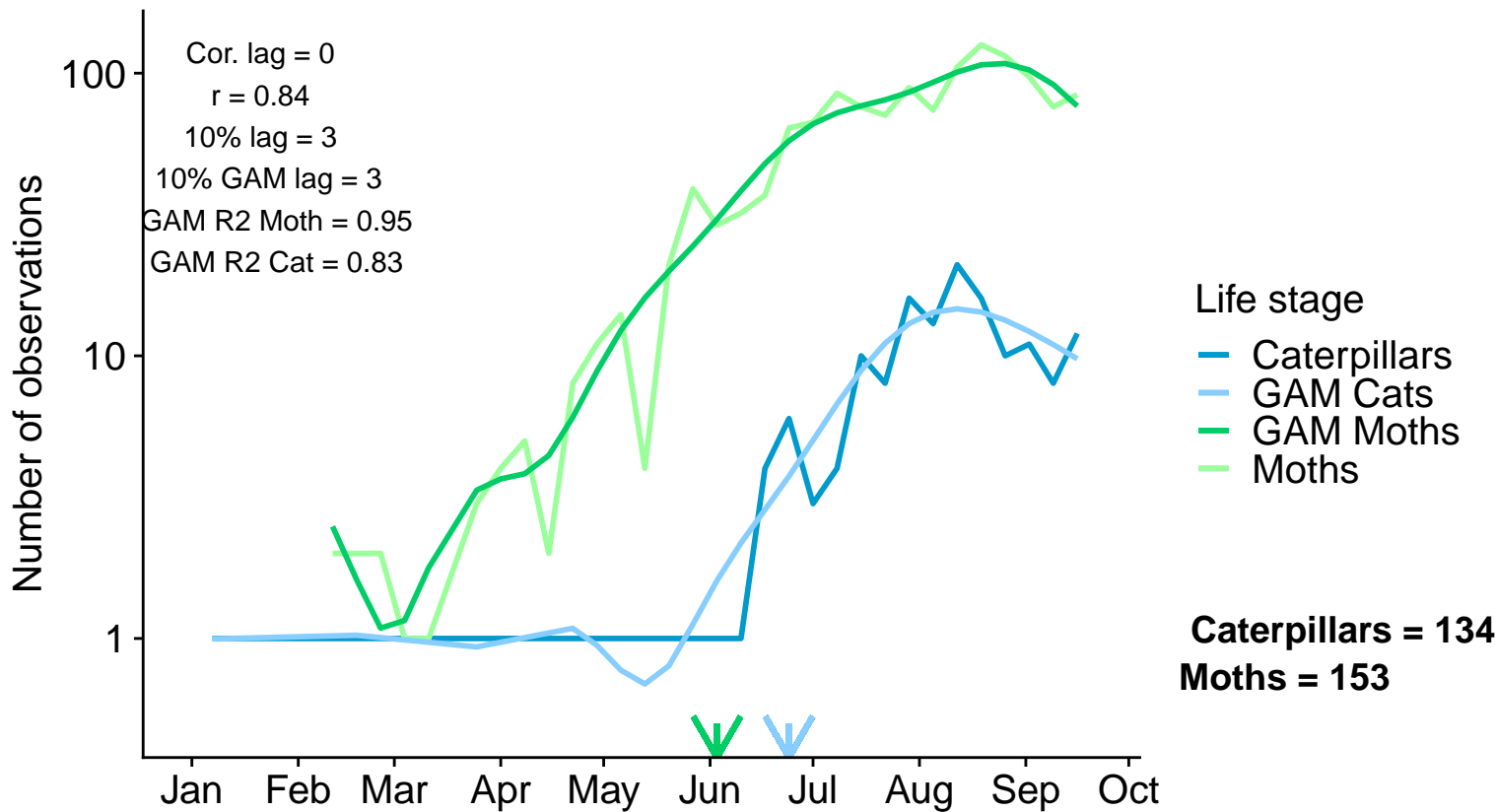
41, -79



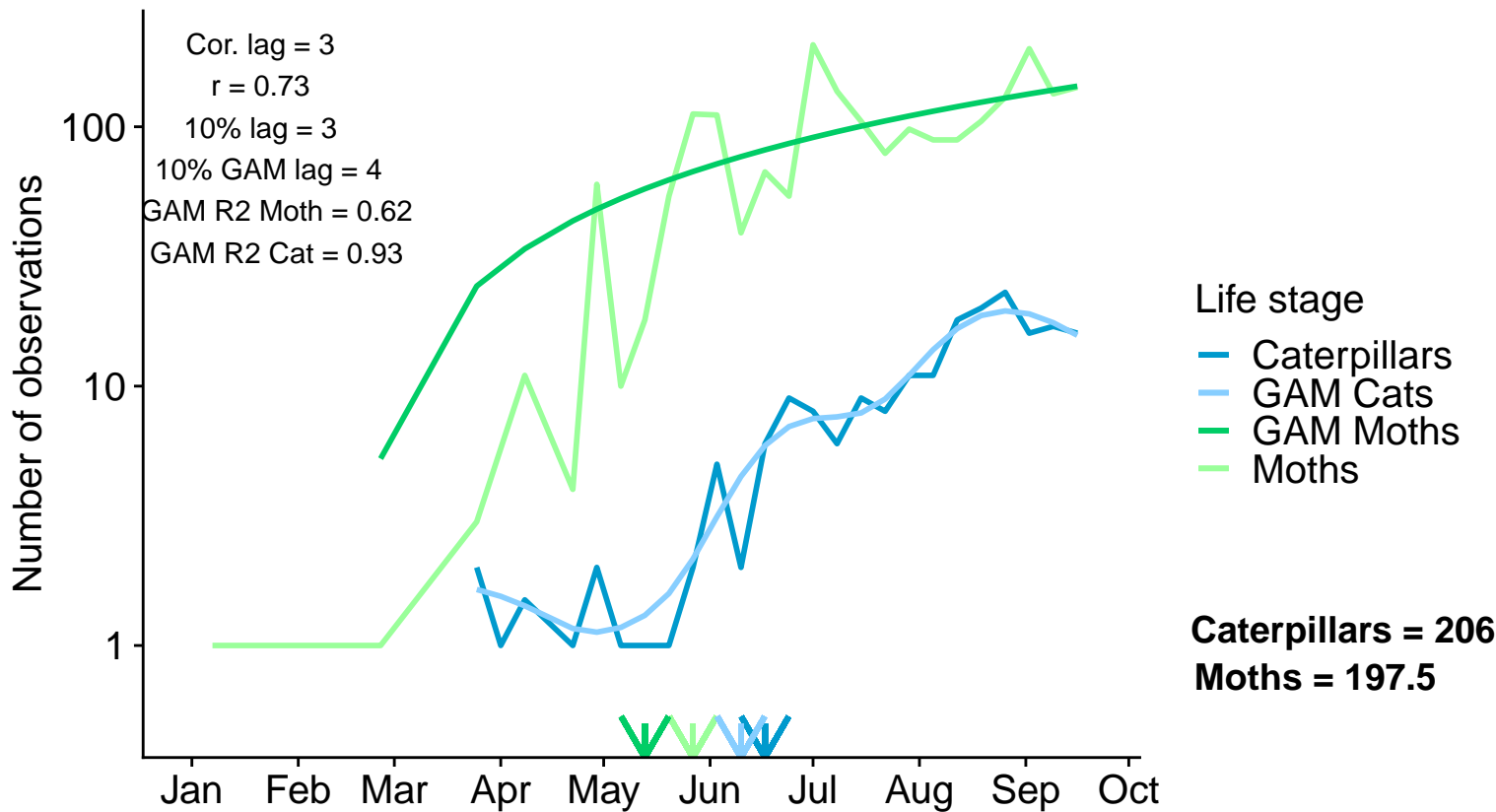
41, -77



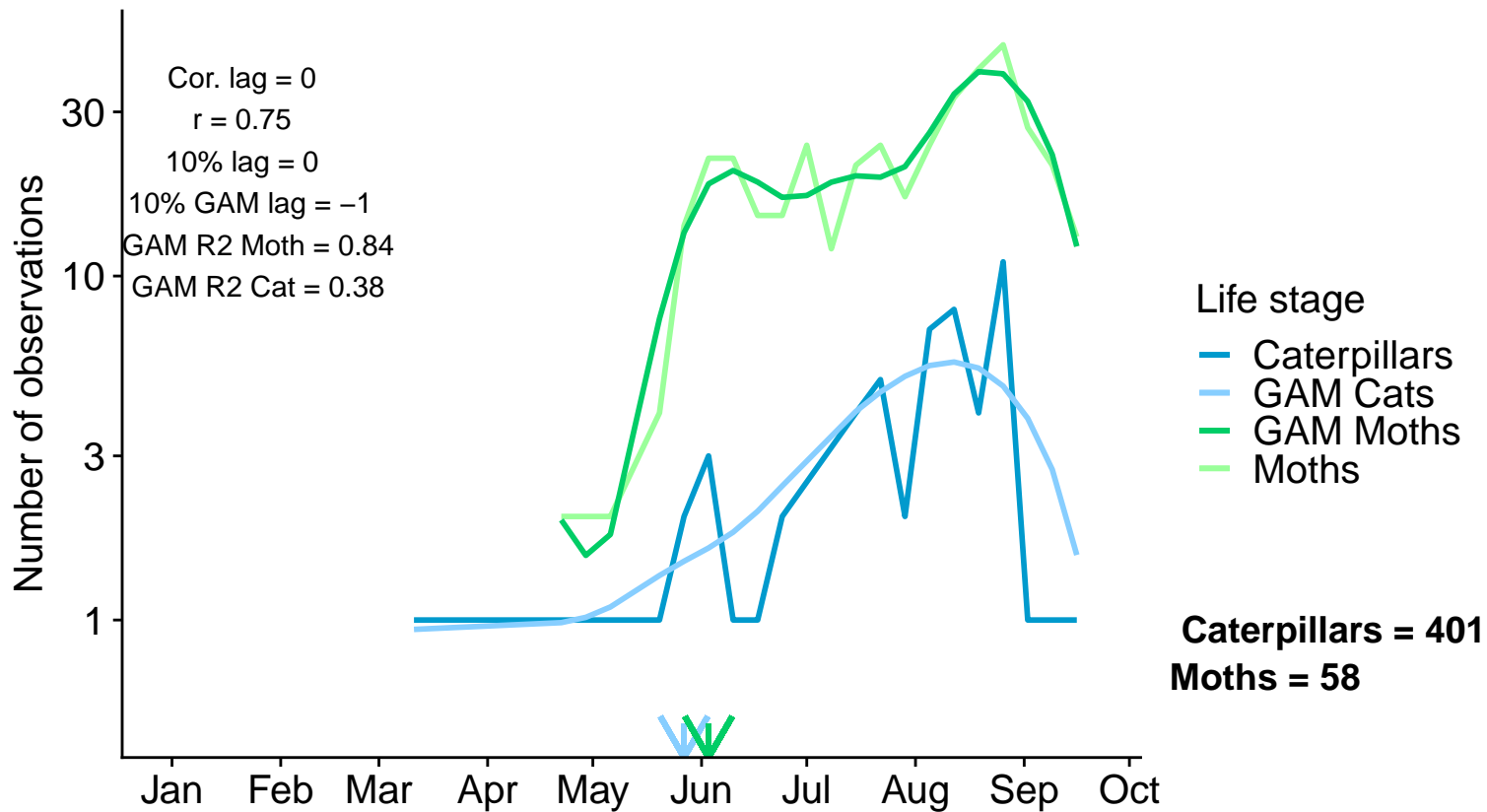
41, -75



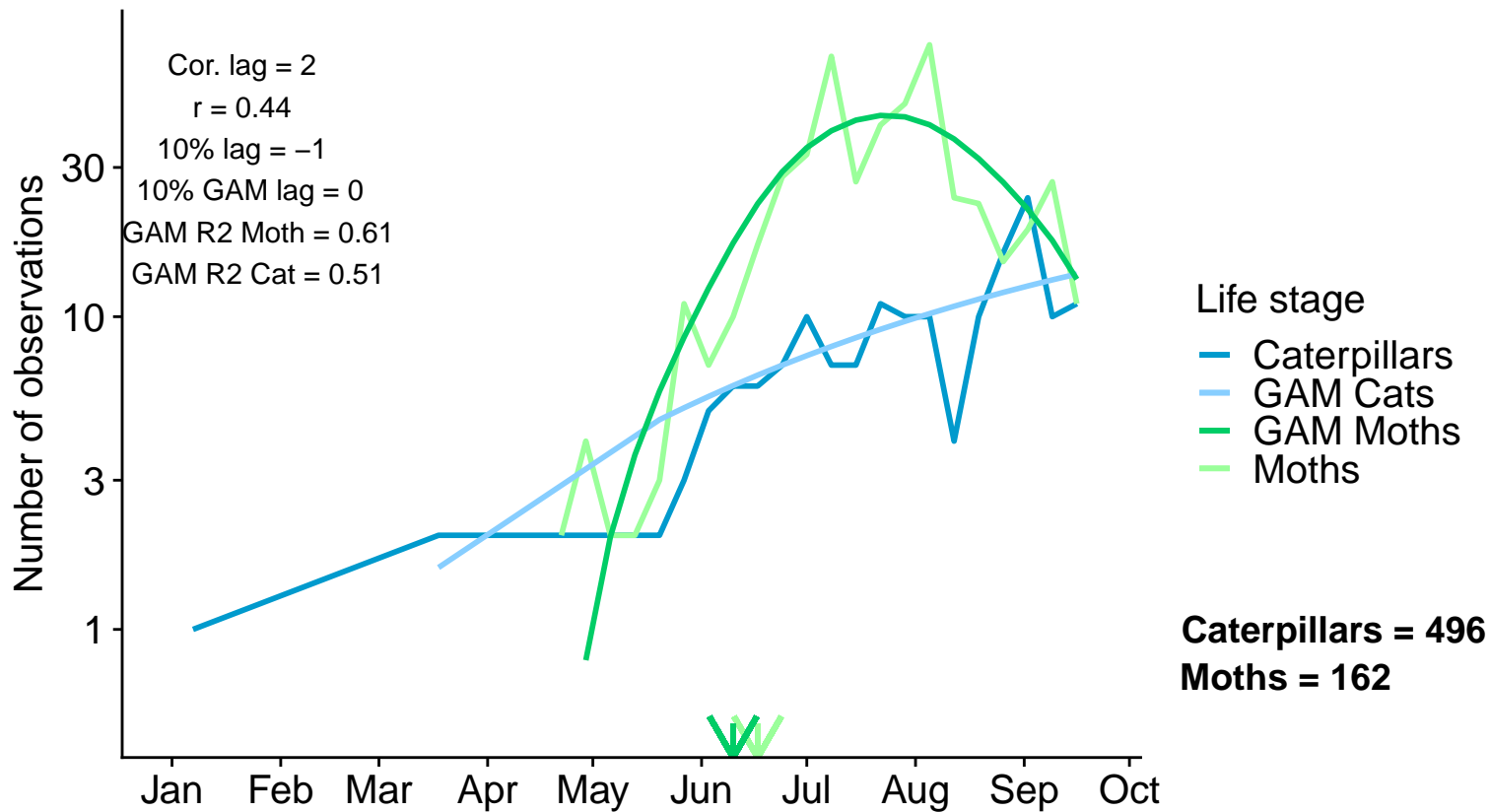
41, -73



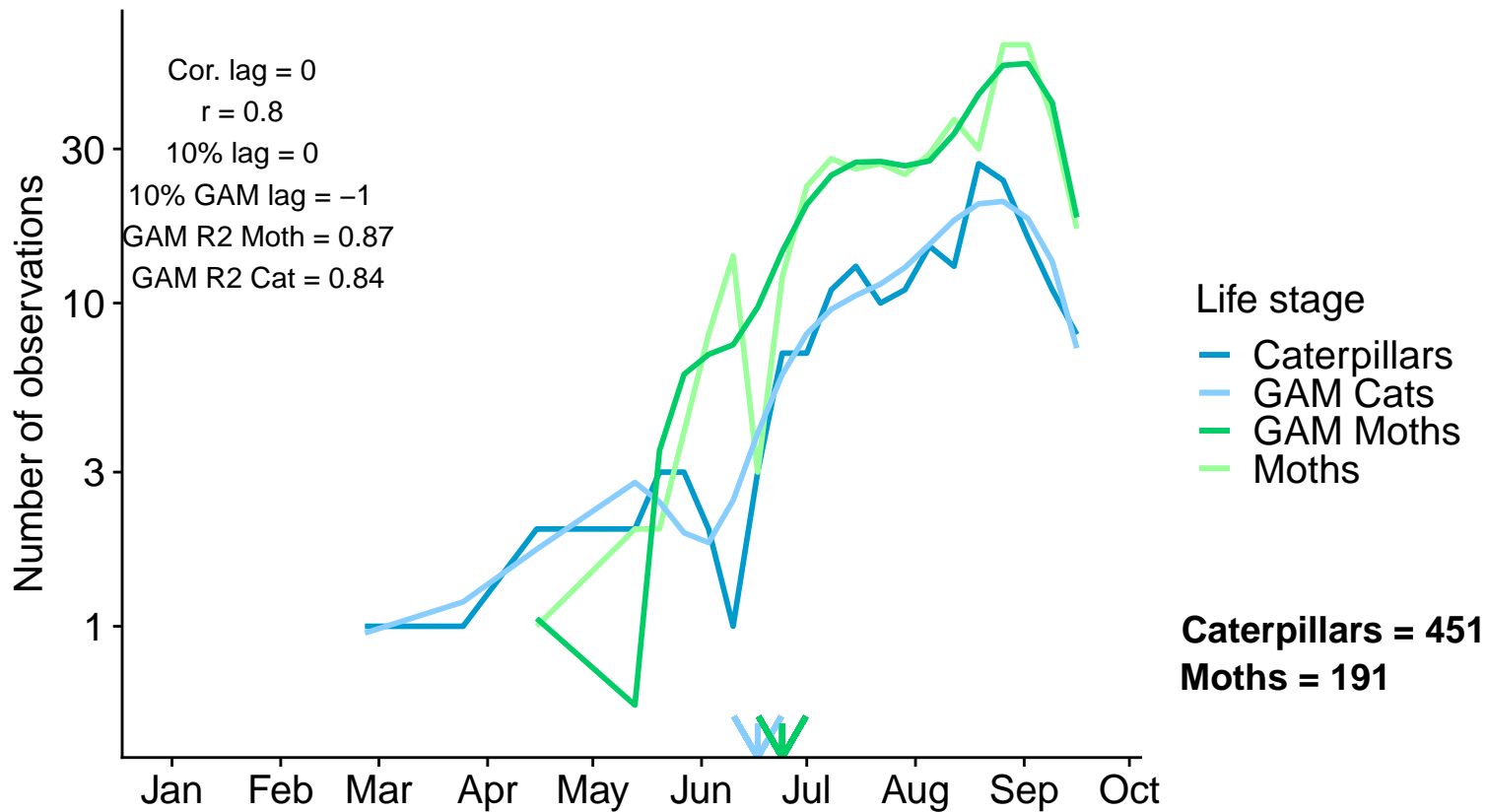
43, -89



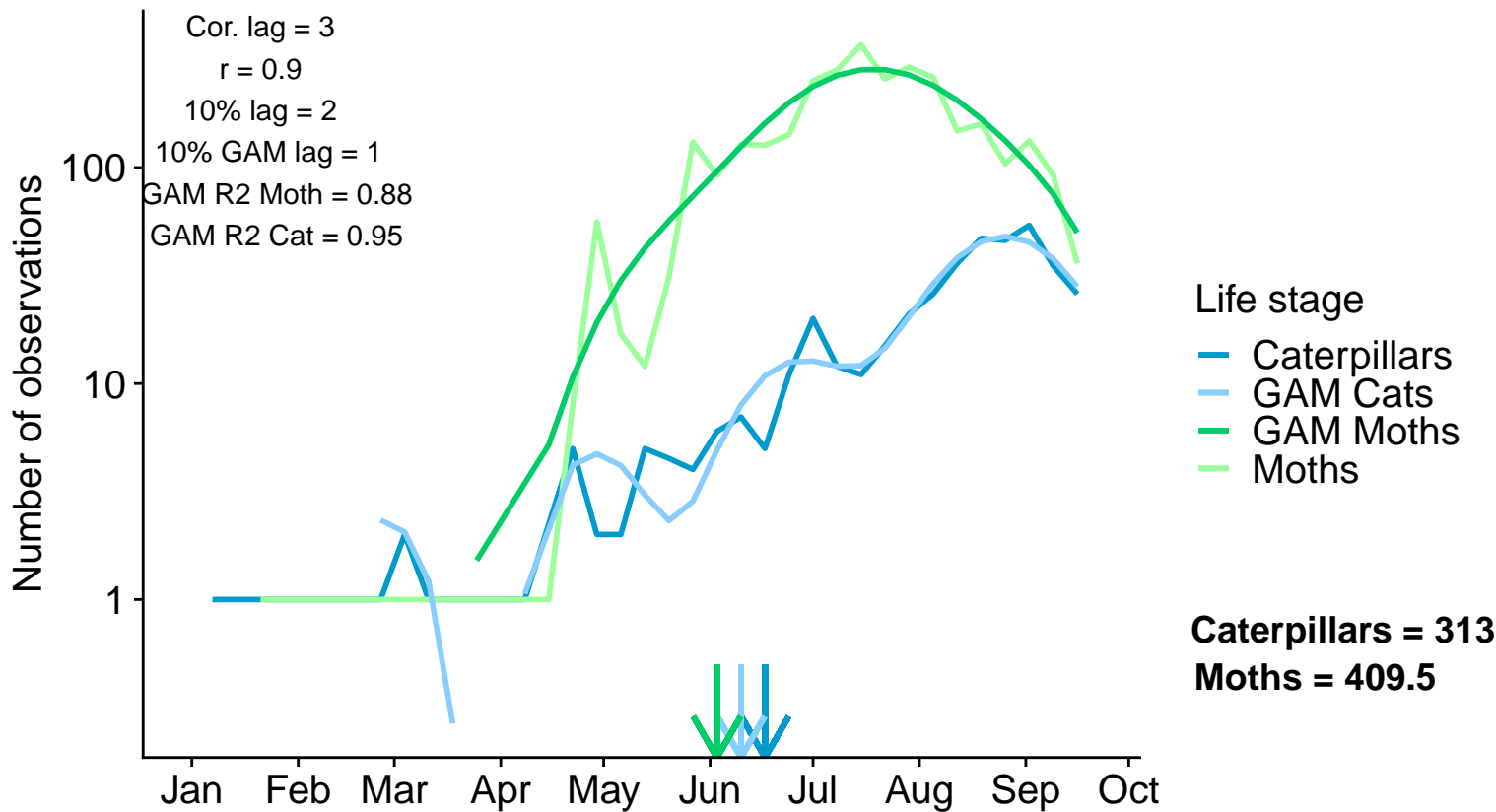
43, -85



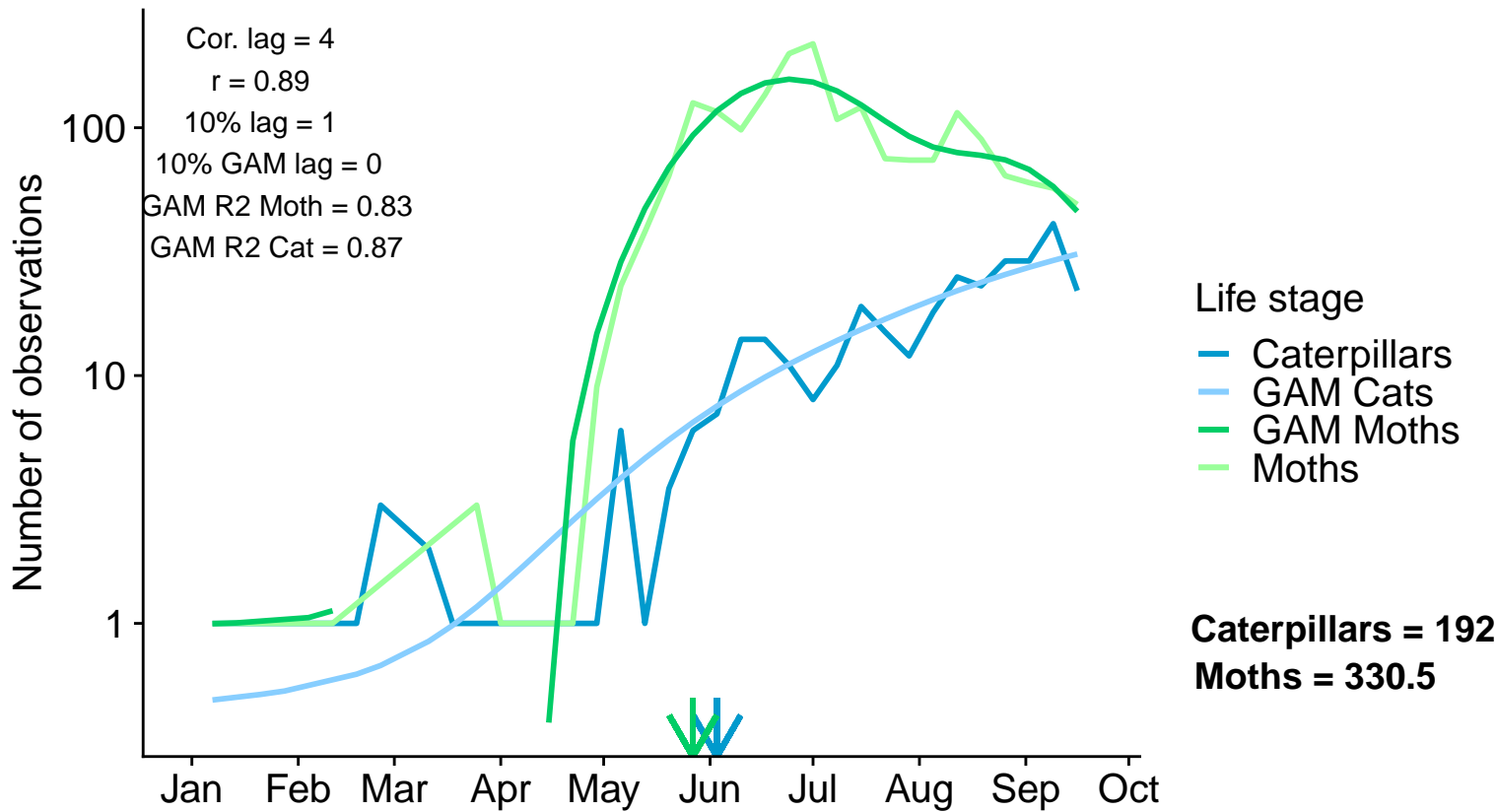
43, -83



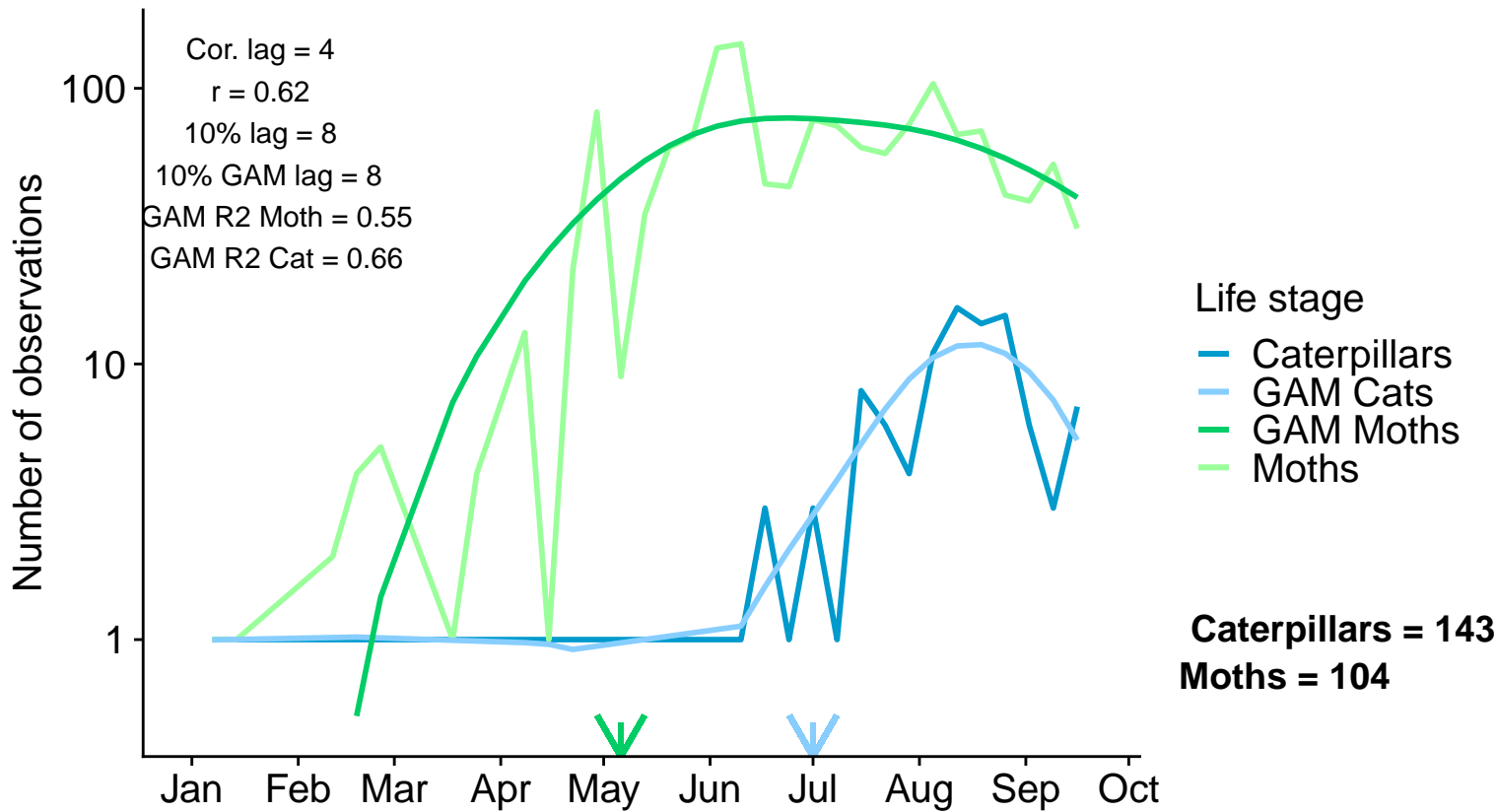
43, -81



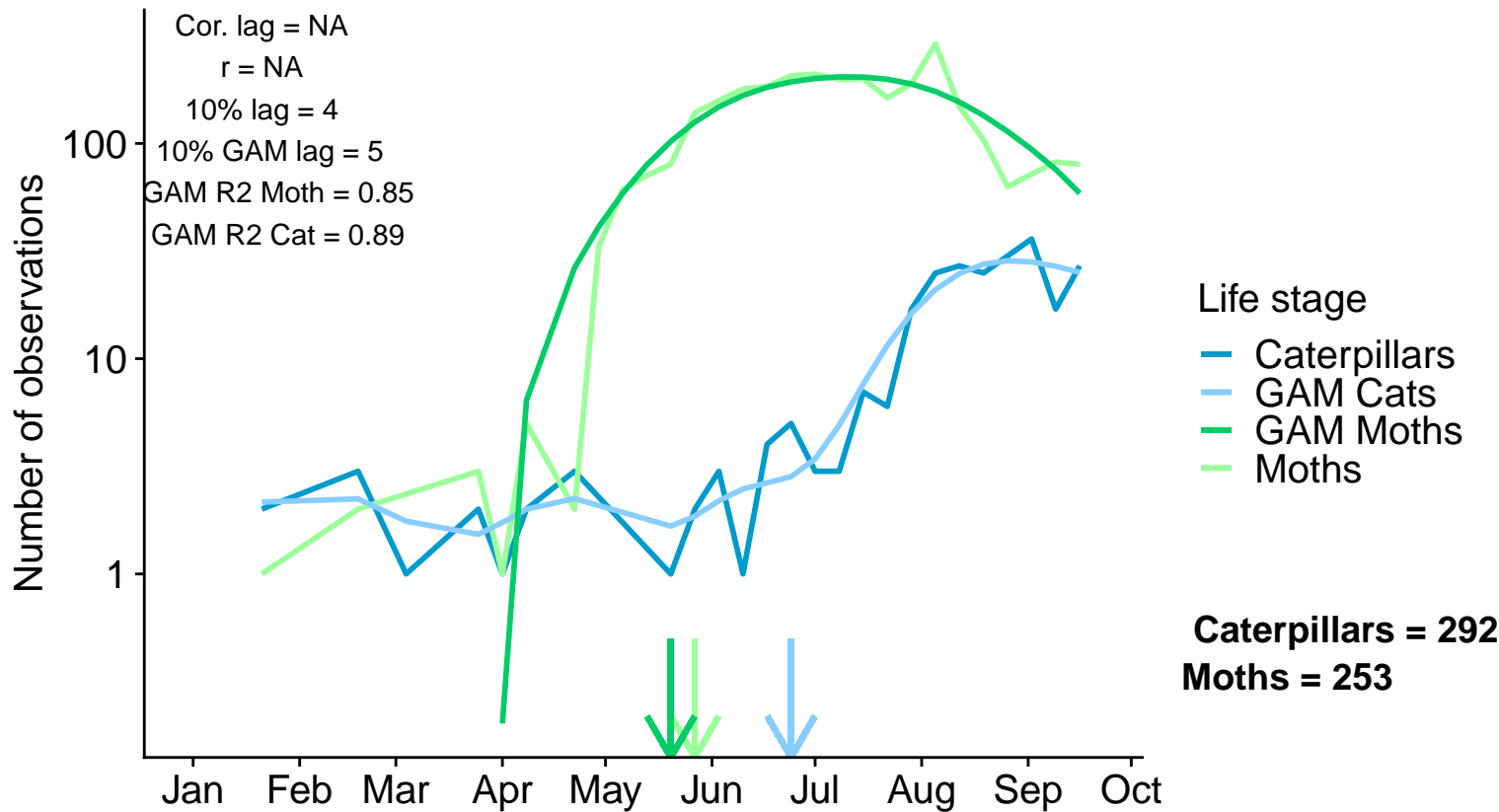
43, -79



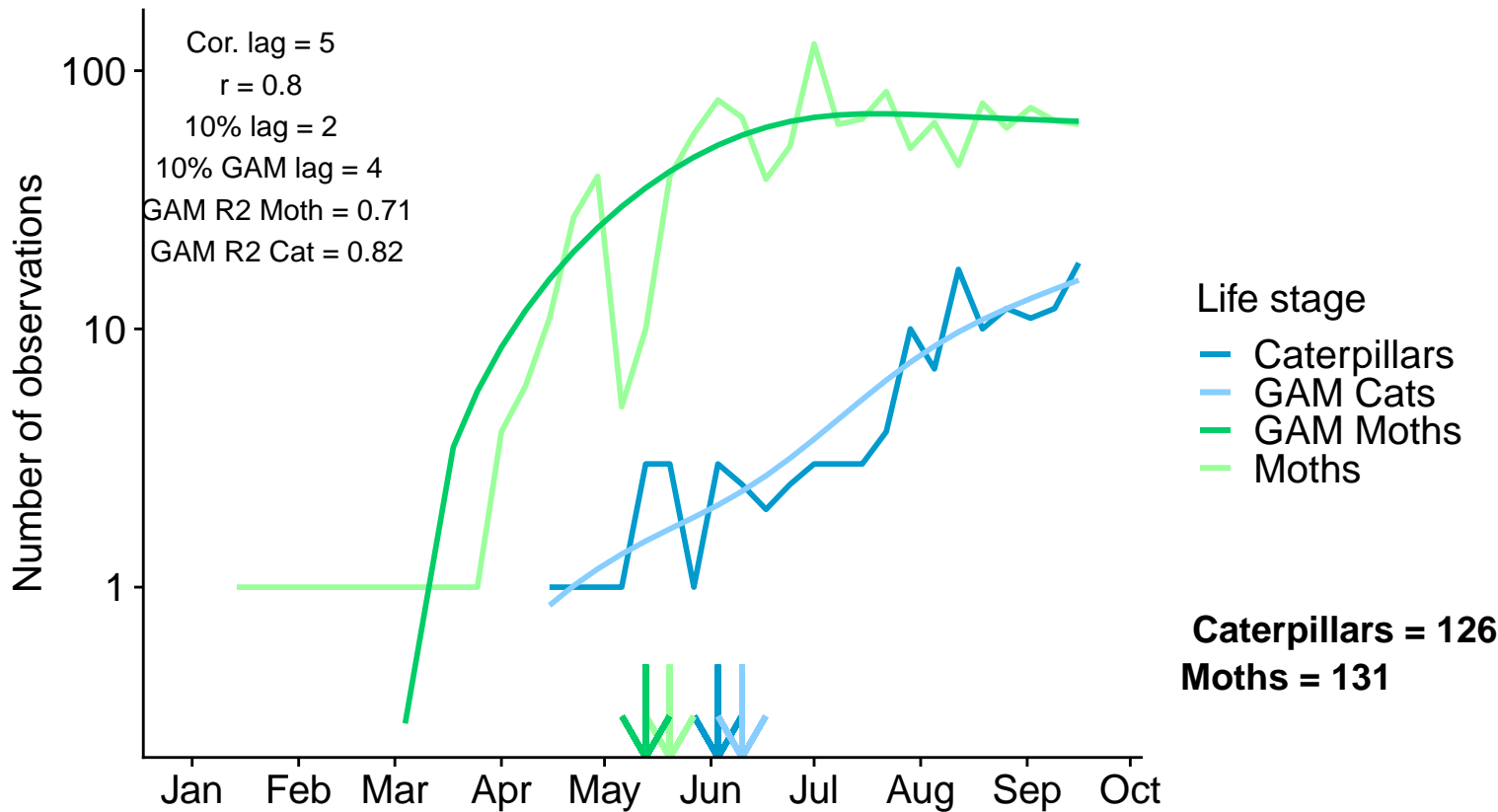
43, -77



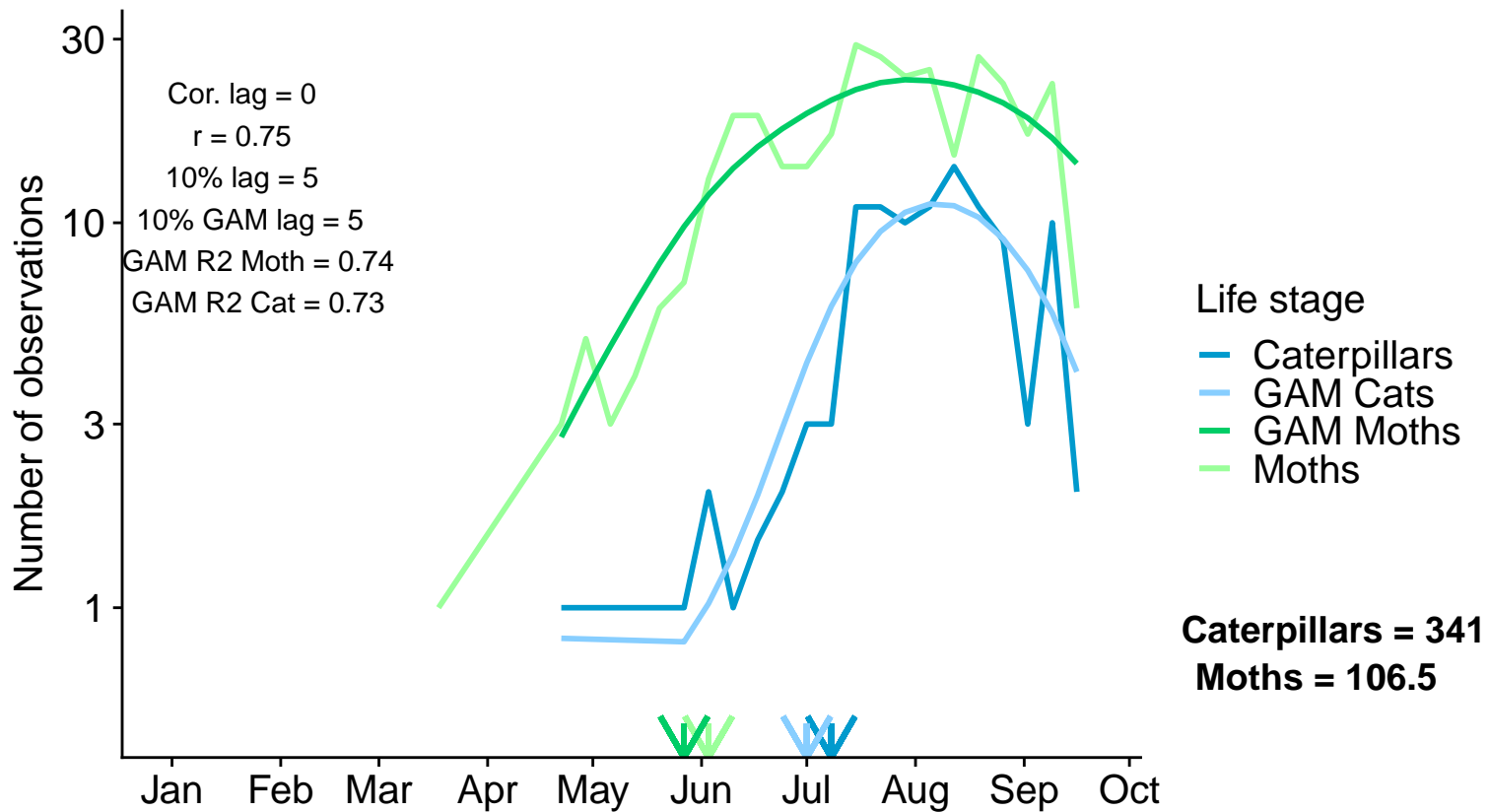
43, -73



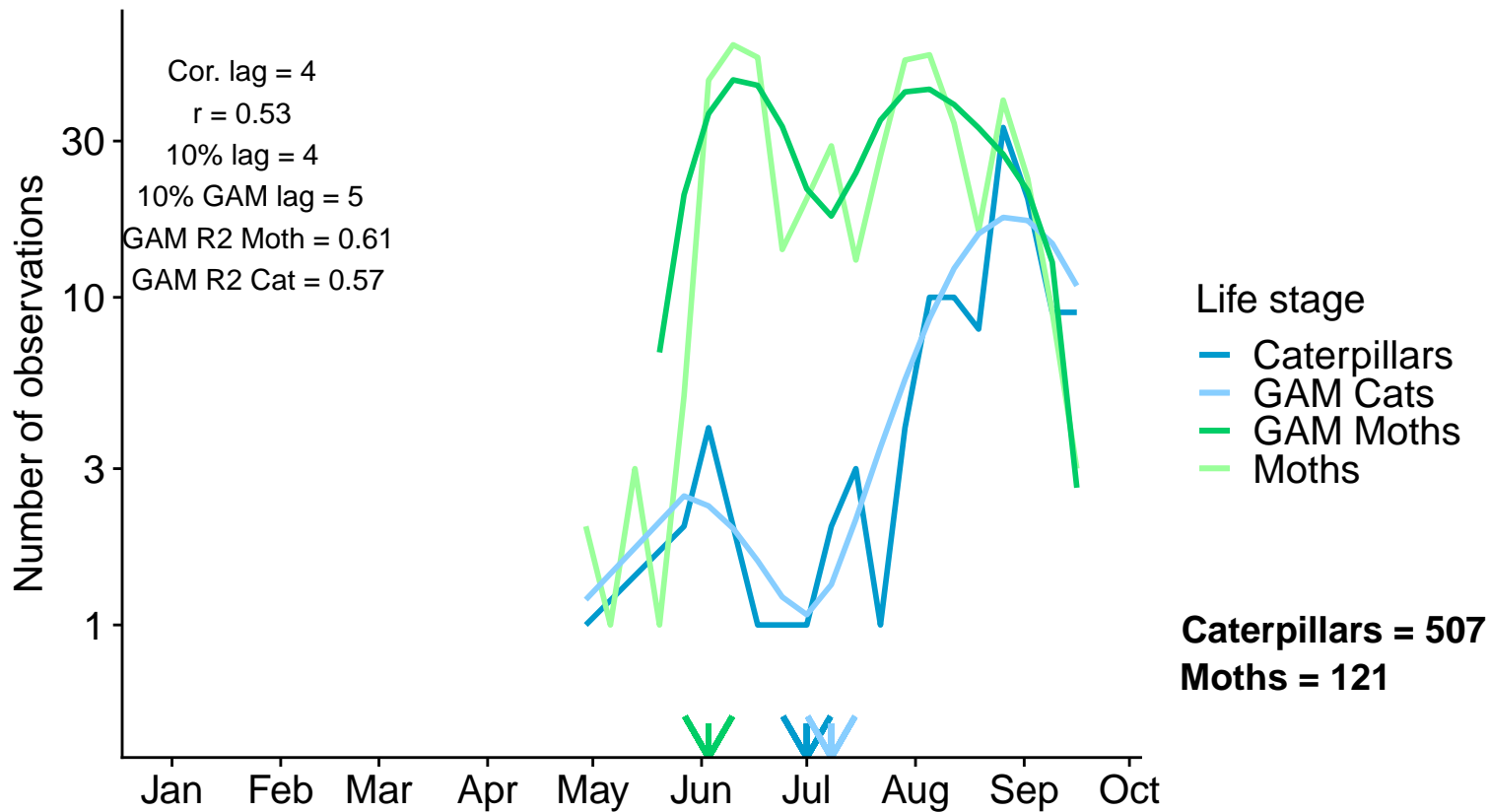
43, -71



45, -93



45, -81



45, -79

Cor. lag = 3

$r = 0.79$

10% lag = 5

10% GAM lag = 5

GAM R2 Moth = 0.83

GAM R2 Cat = 0.96

Number of observations

100

10

1

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Life stage

Caterpillars

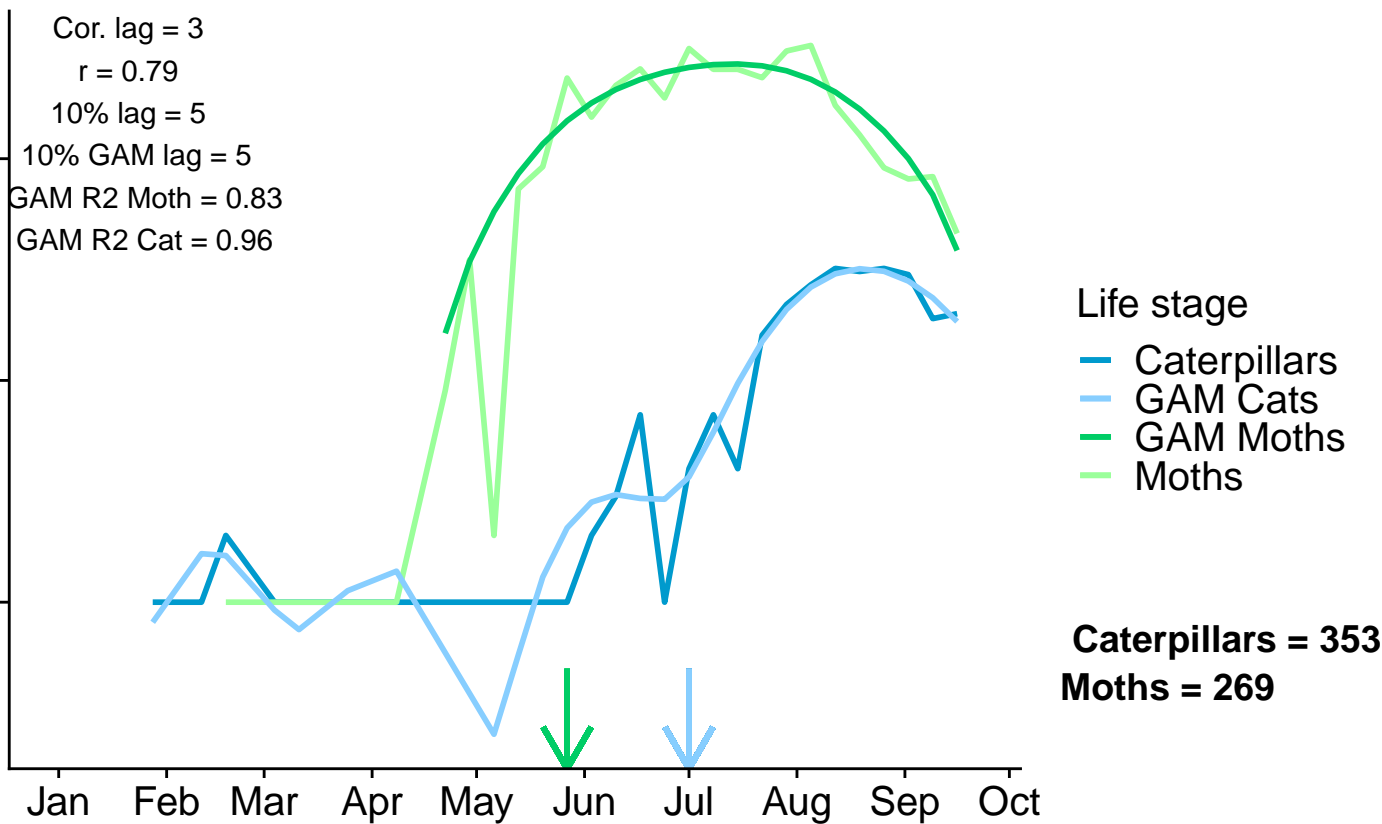
GAM Cats

GAM Moths

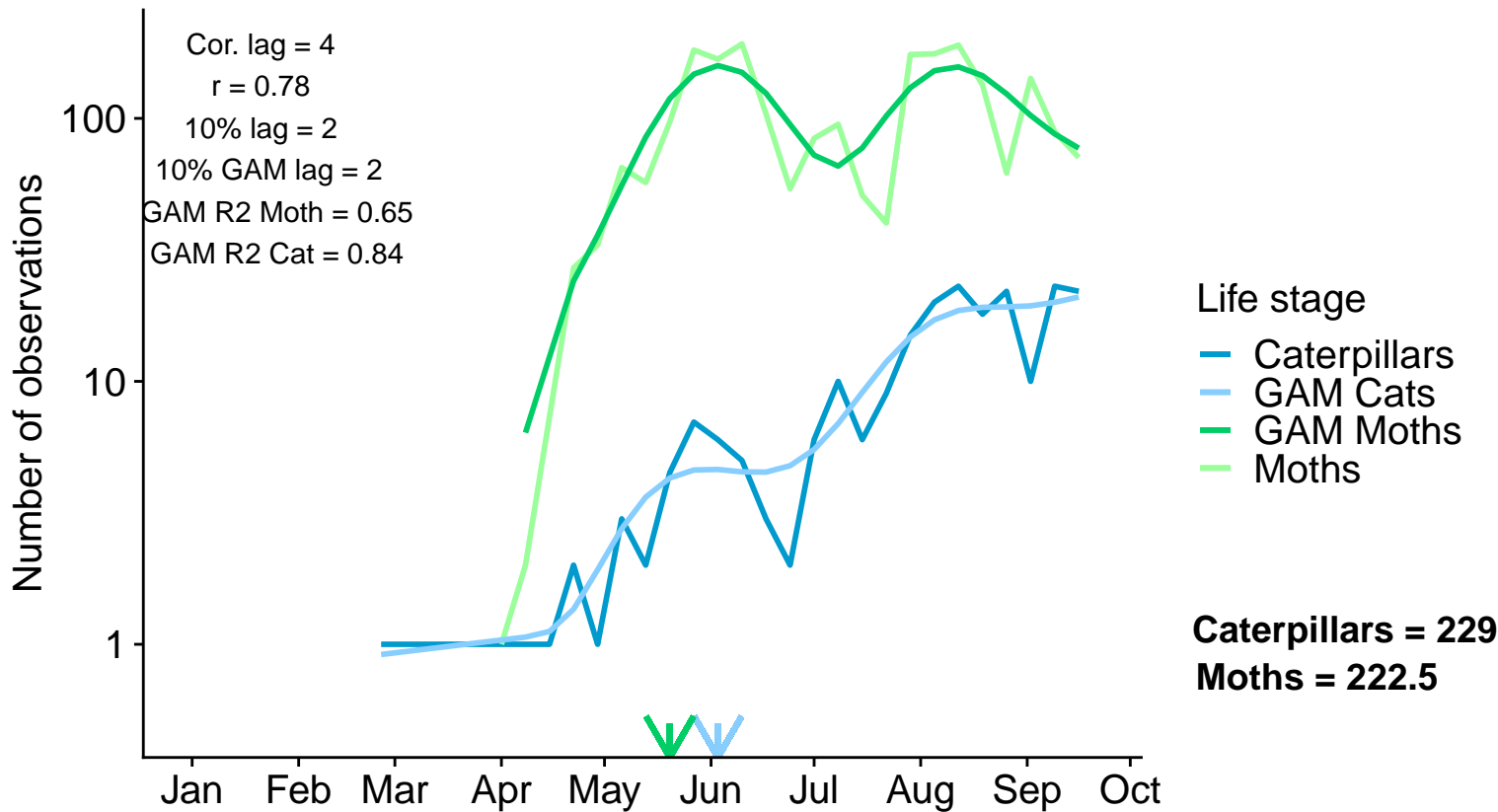
Moths

Caterpillars = 353

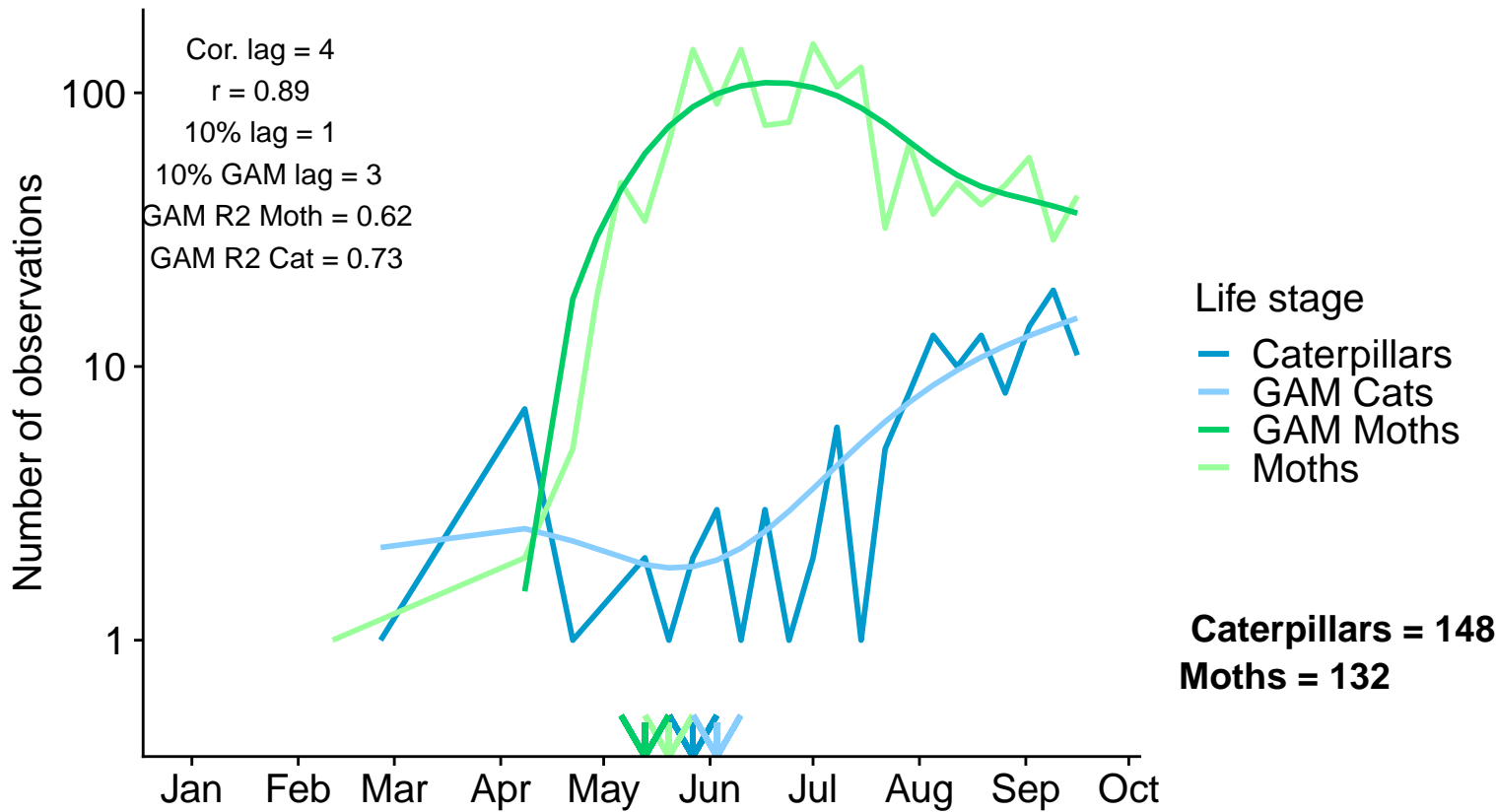
Moths = 269



45, -77



45, -75



45, -73

Cor. lag = 4

$r = 0.93$

10% lag = 3

10% GAM lag = 4

GAM R2 Moth = 0.59

GAM R2 Cat = 0.89

Number of observations

100

10

1

Life stage

Caterpillars

GAM Cats

GAM Moths

Moths

Caterpillars = 257

Moths = 252

Jan Feb Mar Apr May Jun Jul Aug Sep Oct

