**Table S3**. Effects of ENSO, environmental parameters, maternal guards, and their interaction on larval mortality caused by predators in the guard removal experiment.

Co-variate Maternal guarding Interaction

Agent Co-variate X2 P X2 P X2 P AIC

ants **ENSO** 46.6 \*\*\* 68.7 \*\*\* 86.9 \*\*\* 946

ants rainfall Q1 33.1 \*\*\* 8.7 \*\*\* 5.0 \*\*\* 925

ants rainfall Q2 18,7 \*\*\* 49.3 \*\*\* 50.4 \*\*\* 949

ants PAR Q1 5.6 0.016 59.6 \*\*\* 77.6 \*\*\* 953

ants Ta Q1 19.3 \*\*\* 16.6 \*\*\* 49.6 \*\*\* 1017

wasps **ENSO** 1.1 0.30 30.8 \*\*\* 34.4 \*\*\* 790

wasps Ta Q1 0.6 0.23 6.9 \*\*\* 11.4 \*\*\* 777

wasps Ta Q2 0.1 0.77 26.0 \*\*\* 44.6 \*\*\* 780

bugs **ENSO** 11.3 \*\* 4.2 0.041 n.s. 722

bugs sunlight Q2 50.1 \*\*\* 1.3 0.25 14.4 \*\* 669

parasitoids **ENSO** 39.5 \*\*\* n.s. n.s. 53

parasitoids Ta Q2 42.5 \*\*\* n.s. n.s. 47

parasitoids Ta Q1 24.9 \*\*\* n.s. n.s. 68

parasitoids rainfall Q2 20.5 \*\*\* n.s. n.s. 72

\*\*P<0.001 \*\*\*P<0.0001

Covariate abbreviations: ENSO=El Niño Southern Ocean Oscillation; Ta=ambient temperature; Q1=first quarter (January-March); Q2=second quarter (April-June).