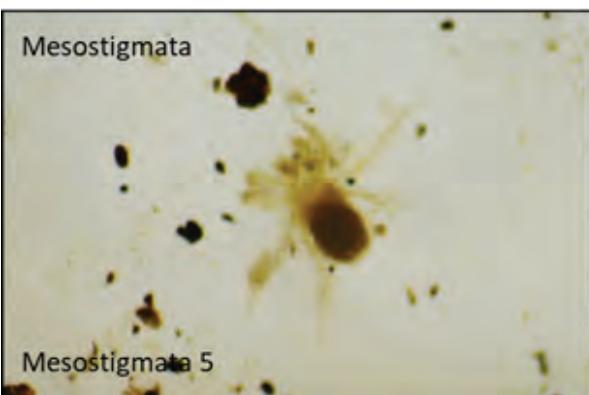
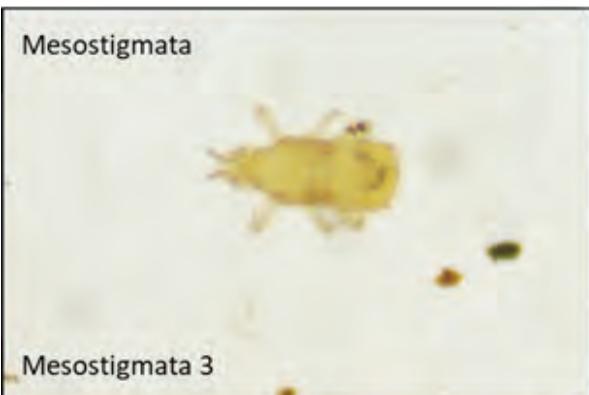
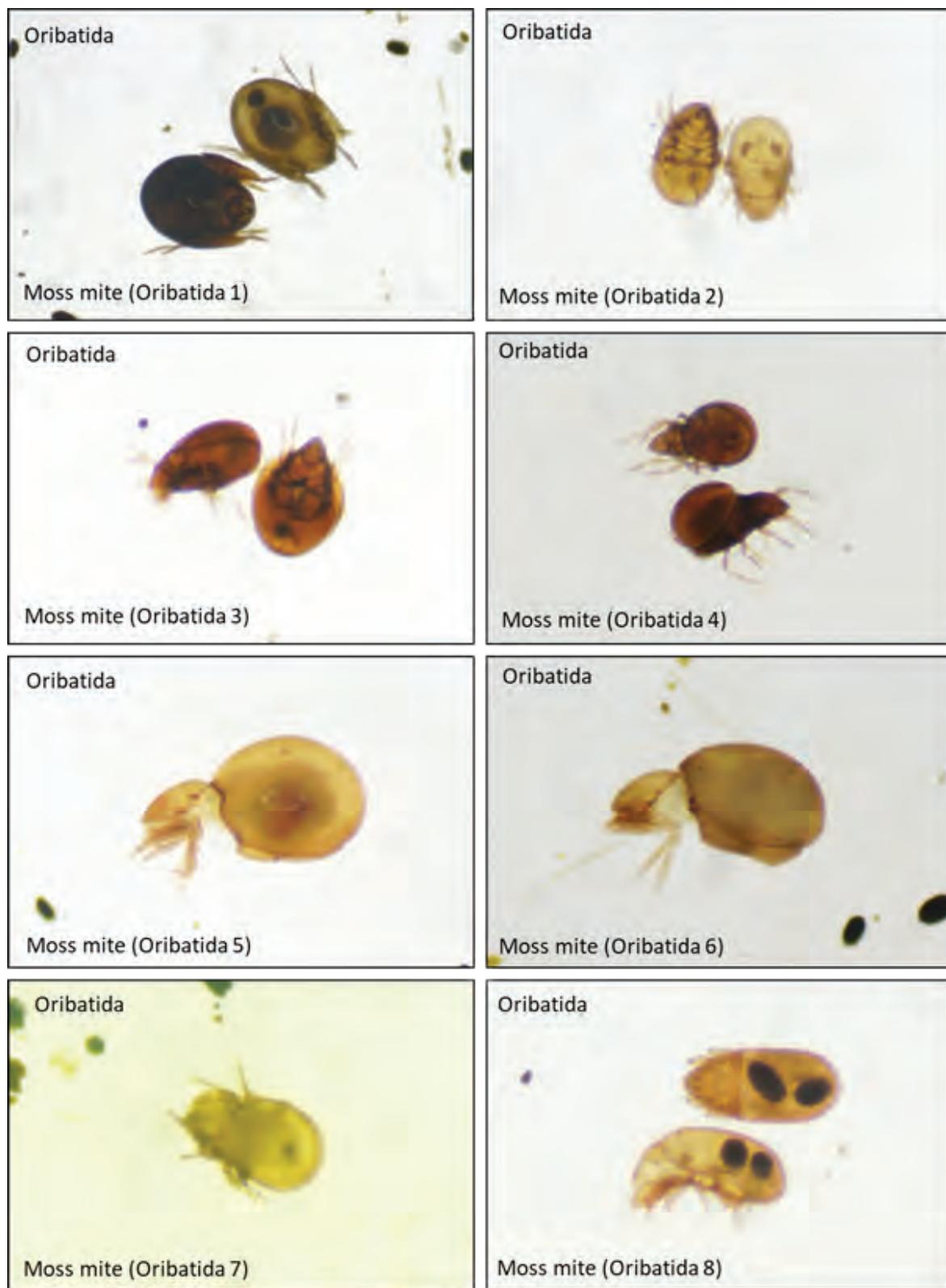


## Appendix C1. Arthropod Field Guide to Wake Atoll

Photograph and descriptive summary of native and introduced arthropods that have been recorded on Wake Atoll. (All photographs by R. Peck, Hawai‘i Cooperative Studies Unit, University of Hawai‘i at Hilo).

### Mites (Acari: Mesostigmata) from Wake Atoll

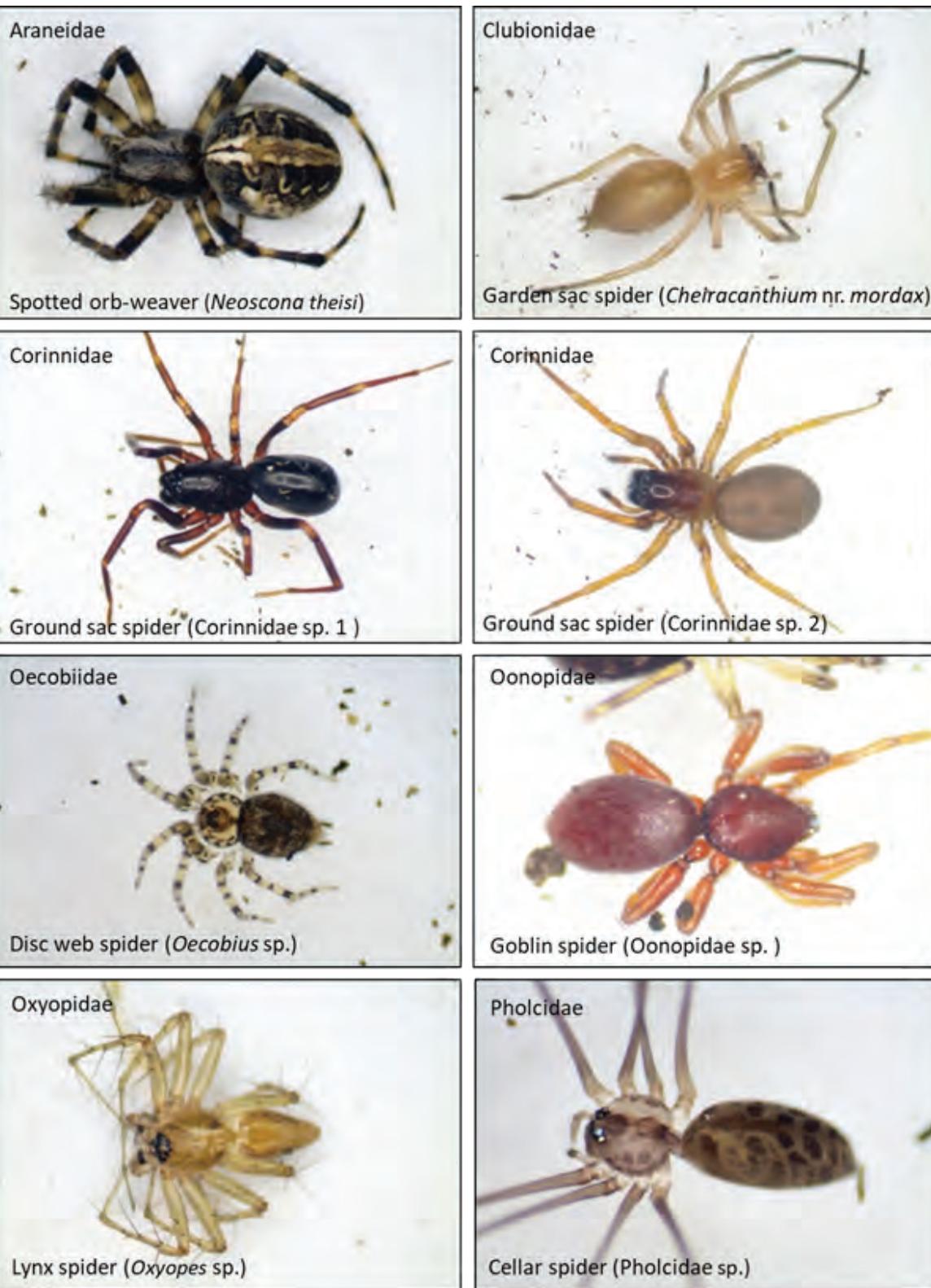


**Moss Mites (Acari: Oribatida) from Wake Atoll**

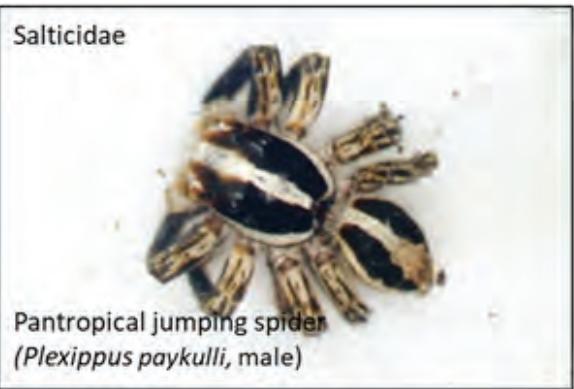
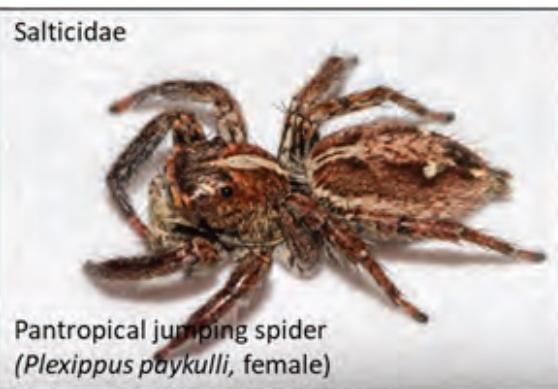
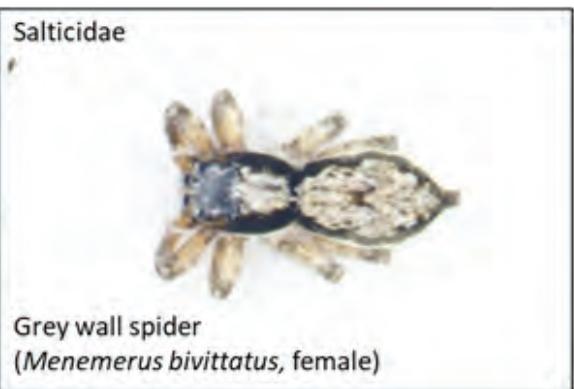
**Moss Mites (Acaria: Oribatida) from Wake Atoll—Continued**



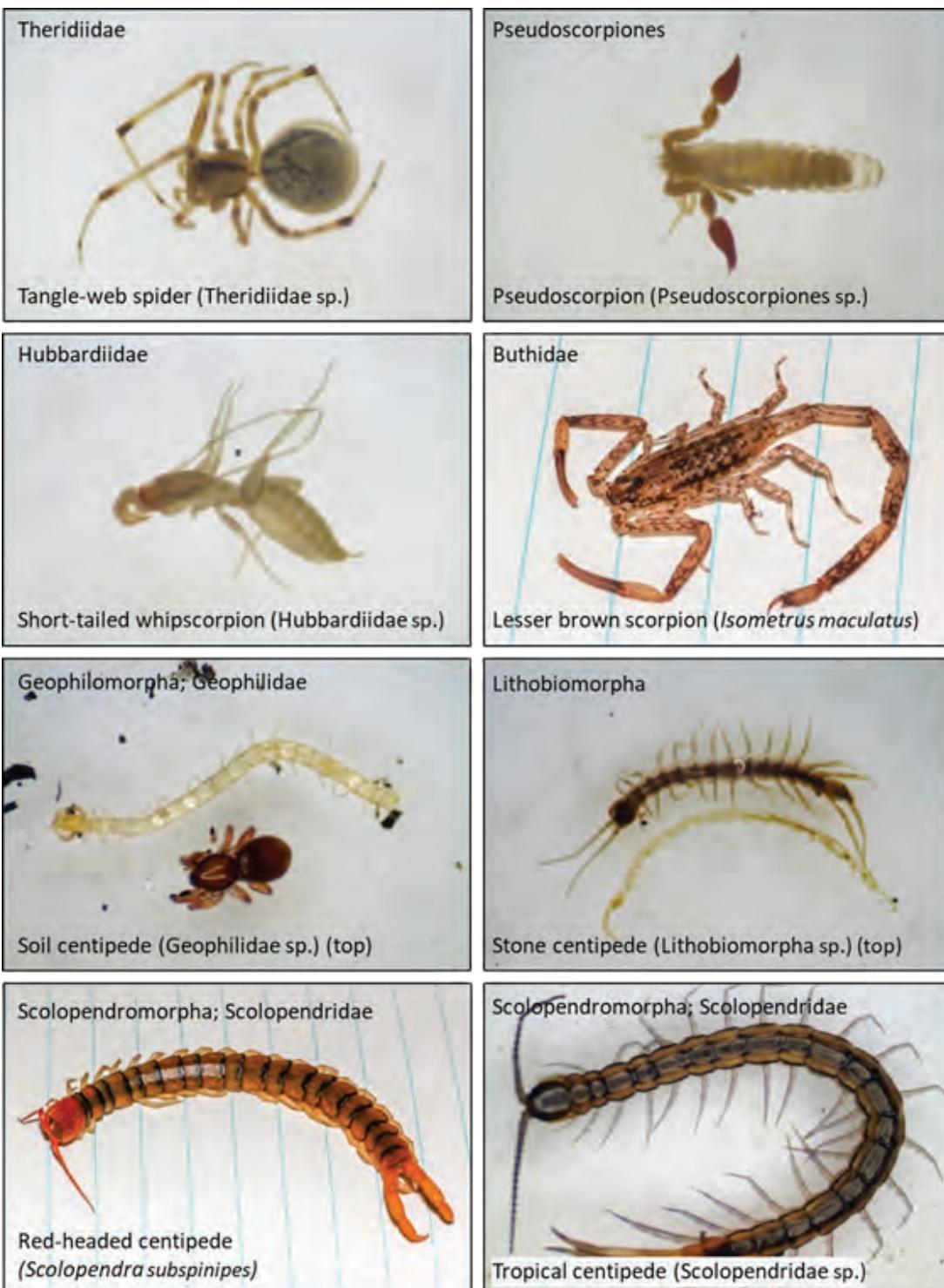
## Spiders (Arachnida: Araneae) from Wake Atoll



## Spiders (Arachnida: Araneae) from Wake Atoll—Continued



**Spiders (Arachnida: Araneae), Pseudoscorpion (Arachnida; Pseudoscorpiones), Short-Tailed Whipscorpion (Arachnida; Schizomida), Scorpion (Arachnida; Scorpiones), and Centipedes (Chilopoda; Geophilomorpha, Lithobiomorpha, and Scolopendromorpha) from Wake Atoll**



**Millipedes (Diplopoda), Including Flat-Backed Millipedes (Polydesmida) and Bristly Millipedes (Polyxenida), and Collembola (Entognatha, Including Entomobryidae and Isotomidae) from Wake Atoll**

Polydesmida: Paradoxosomatidae



Long-flange millipede  
(*Orthomorpha coarctata*)

Polyxenida: Polyxenidae



Bristly millipede (*Polyxenus nr. fasciculatus*)

Diplopoda: order unknown



Diplopoda sp.

Entomobryidae



Springtail (Entomobryidae 1)

Entomobryidae

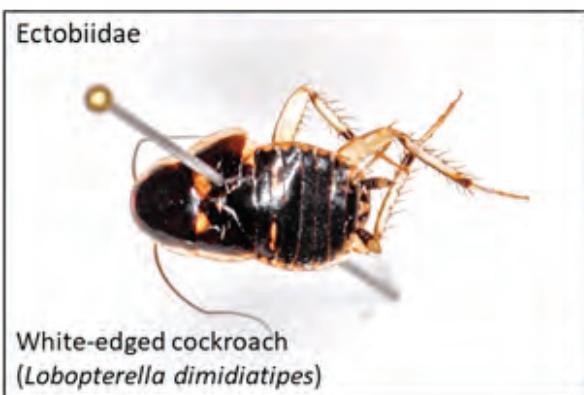
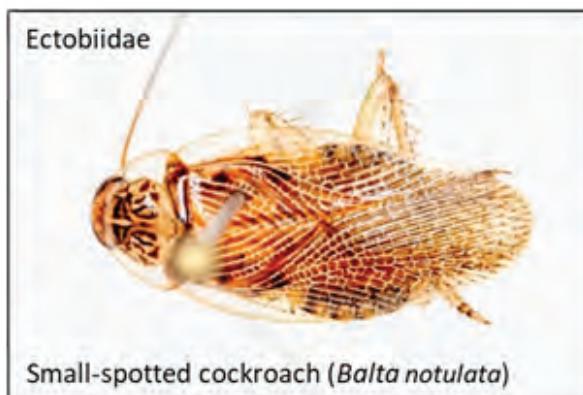
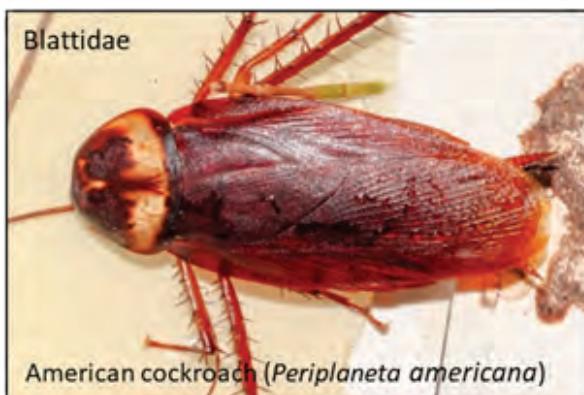
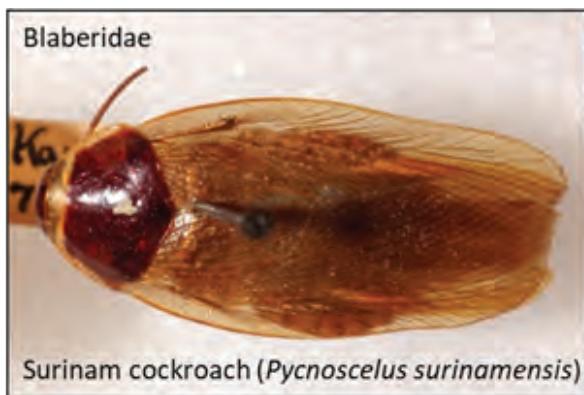


Springtail (Entomobryidae 2)

Isotomidae



Springtail (Isotomidae sp.)

**Cockroaches and Termites (Insecta: Blattodea) from Wake Atoll**

## Beetles (Insecta: Coleoptera) from Wake Atoll

Brentidae



Sweet potato weevil (*Cylas formicarius*)

Carabidae



Ground beetle (Carabidae sp.)

Cerambycidae



Long-horned beetle (*Ceresium unicolor*)

Cerambycidae



Long-horned beetle (*Sybra alternans*)

Chrysomelidae



Seed weevil  
(*Acanthoscelides macrourus*)

Chrysomelidae



Sweet potato flea beetle  
(*Chaetocnema confinis*)

Coccinellidae



Ladybird beetle (*Brumoides suturalis*)

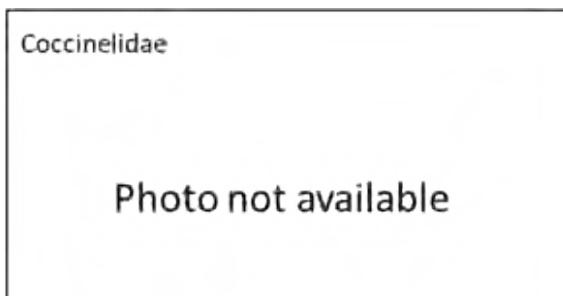
Coccinellidae



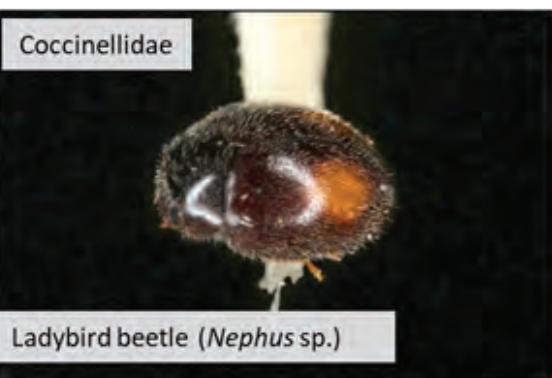
Ladybird beetle (*Coleophora inequalis*)

**Beetles (Insecta: Coleoptera) from Wake Atoll—Continued**

Ladybird beetle (*Nephaspis* nr. *oculatus*)



Ladybird beetle (*Nephaspis* sp.)



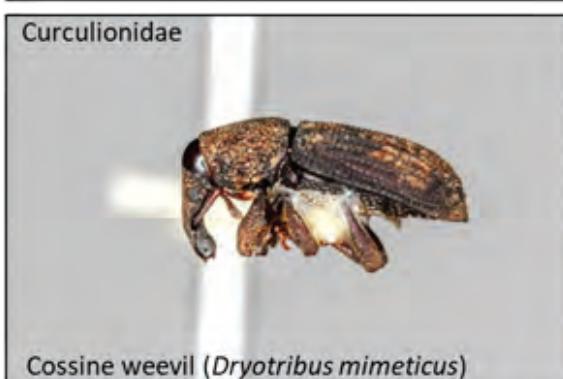
Ladybird beetle (*Nephus* sp.)



Coccinellidae sp.



Wilkes cryptorhynchine weevil  
(*Acalles wilkesii*)



Cossine weevil (*Dryotribus mimeticus*)



Cossine weevil (Cossoninae sp.)



Pygmy wood borer (*Hypothenemus* sp.)

## Beetles (Insecta: Coleoptera) from Wake Atoll—Continued

Curculionidae



Broad-nosed weevil (*Myllocerus* sp.)

Dermestidae



Black larder beetle (*Dermestes atar*)

Elateridae



Pale-footed click beetle (*Conoderus pallipes*)

Elateridae



Click beetle (*Lacon modestus*)

Elateridae



Click beetle (Elateridae sp.)

Oedemeridae



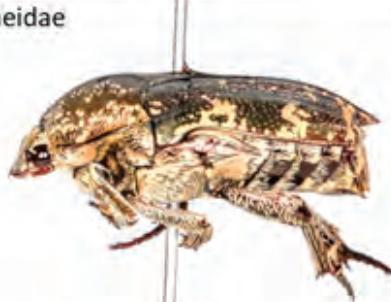
Red-black false blister beetle (*Eobia bicolor*)

Scarabaeidae

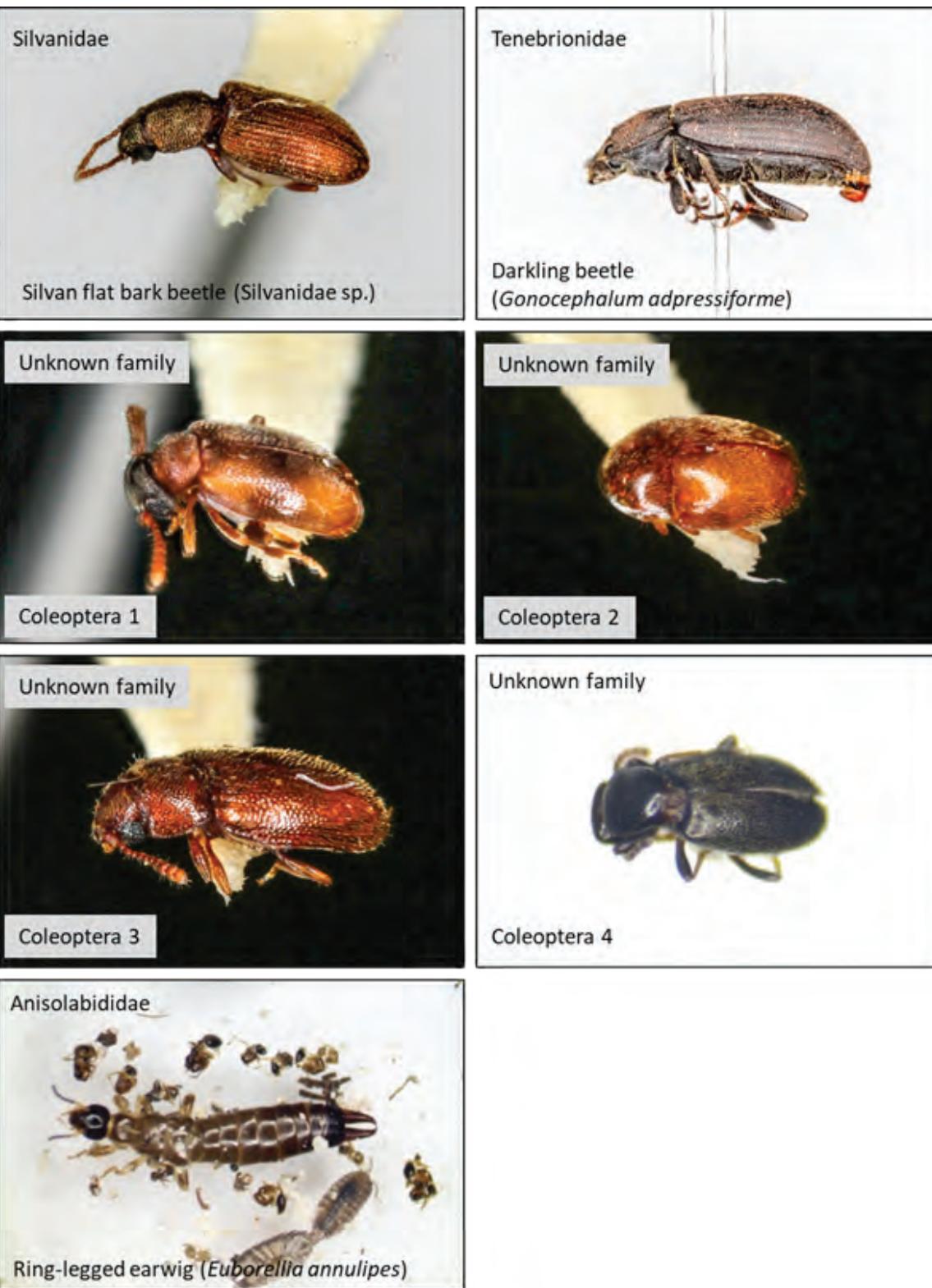


Small dung beetle (*Pleurophorus parvulus*)

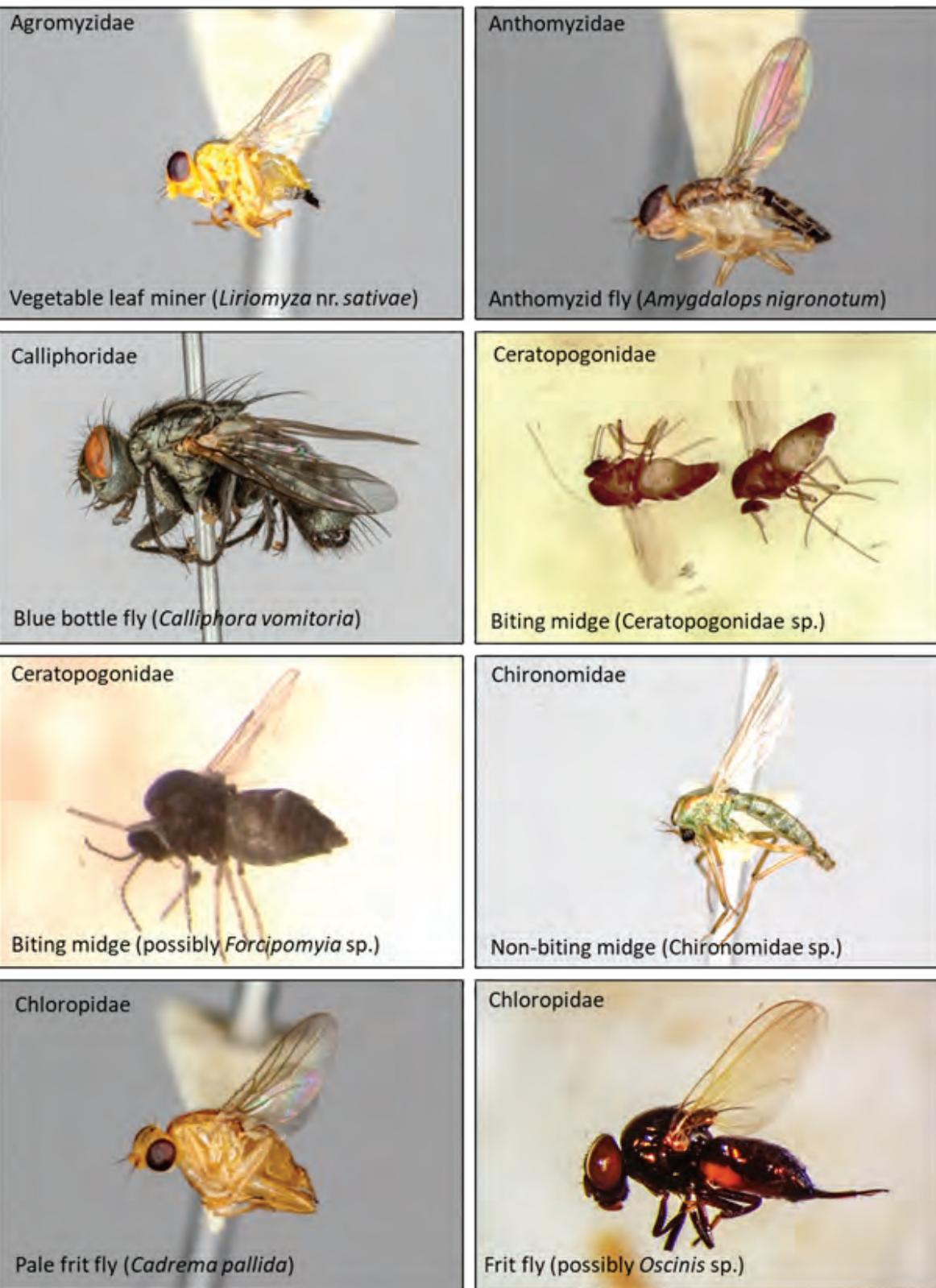
Scarabaeidae



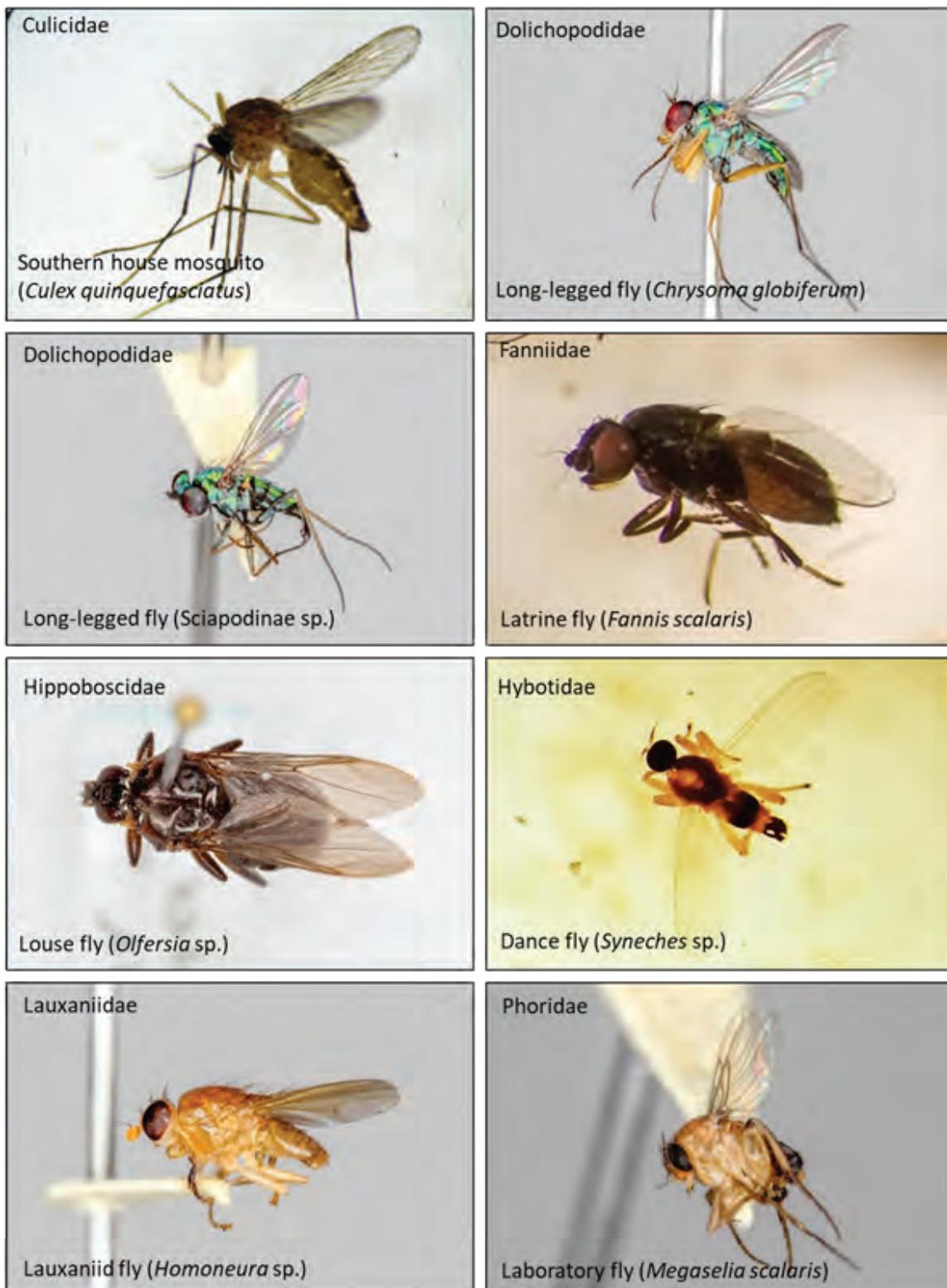
Mango flower beetle (*Protaetia fusca*)

**Beetles (Insecta: Coleoptera) and Earwig (Insecta: Dermaptera) from Wake Atoll—Continued**

## Flies (Insecta: Diptera) from Wake Atoll



## Flies (Insecta: Diptera) from Wake Atoll—Continued



## Flies (Insecta: Diptera) from Wake Atoll—Continued

Sarcophagidae



Flesh fly (*Sarcophaga perigrina*)

Scenopinidae



Window fly (*Scenopinus adventicius*)

Scenopinidae



Window fly (*Scenopinus lucidus*)

Syrphidae



Hover fly (*Syritta nr. orientalis*)

Tachinidae



Tachinidae sp.

Tephritidae



Fruit fly (*Acinia picturata*)

Tephritidae



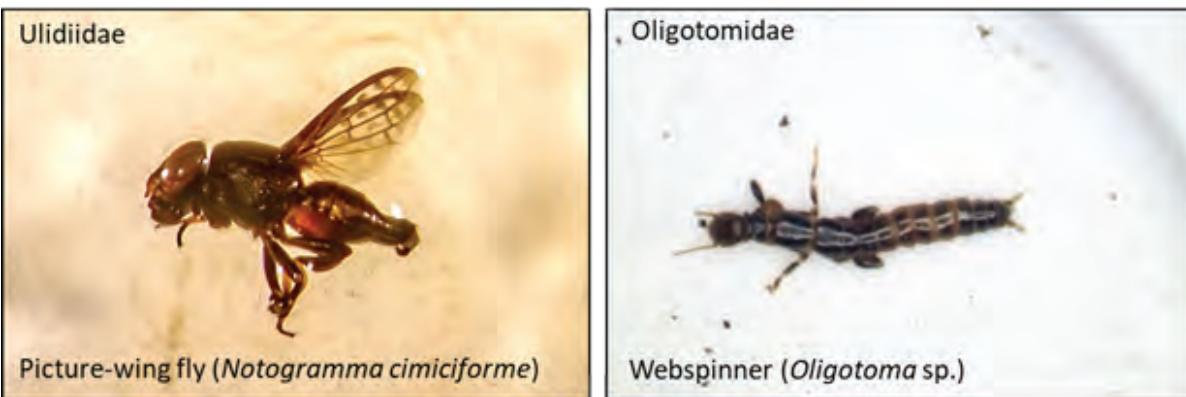
Fruit fly (*Dioxyna sororcula*)

Therevidae



Stiletto fly (*Bugulaverpa rebecca*)

**Flies (Insecta: Diptera, Ulidiidae) and Webspinner (Insecta: Embioptera, Oligotomidae) from Wake Atoll—Continued**



## Hemiptera (Insecta: Hemiptera) from Wake Atoll

### Aleyrodidae



Whitefly (Aleyrodidae sp.)

### Anthocoridae



Minute pirate bug (*Orius persequens*)

### Cicadellidae



Leafhopper (*Circulifer* nr. *tenellus*)

### Coccidae



Urbicola soft scale (*Pulvinaria urbicola*)

### Cydnidae



Pygmy stink bug (*Geotomus pygmaeus*)

### Geocoridae



Big-eyed bug (*Geocoris* nr. *pallens*)

### Lygaeidae



False chinch bug (*Nysius palor*)

### Miridae



Leaf bug (*Opuna sharpianus*)

**Hemiptera (Insecta: Hemiptera) from Wake Atoll—Continued****Pseudococcidae**

Mealy bug (Pseudococcidae sp.)

**Psyllidae**

Jumping plant louse (Psyllidae sp.)

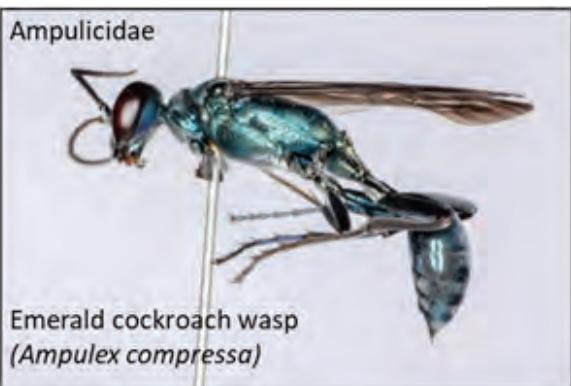
**Reduviidae**

Thread-legged bug (Empicoris sp.)

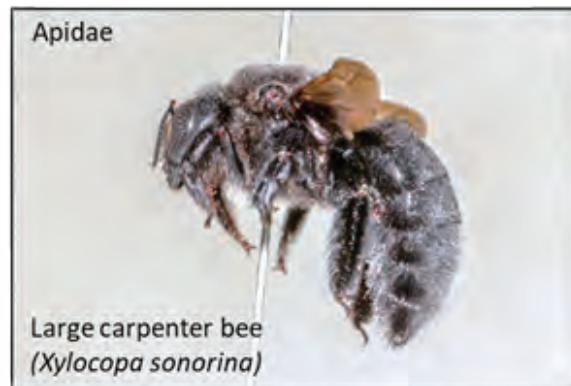
**Rhyparochromidae**

Seed bug (Pachybrachius nr. pacificus)

## Wasps and Bees (Insecta: Hymenoptera) from Wake Atoll



Emerald cockroach wasp  
(*Ampulex compressa*)



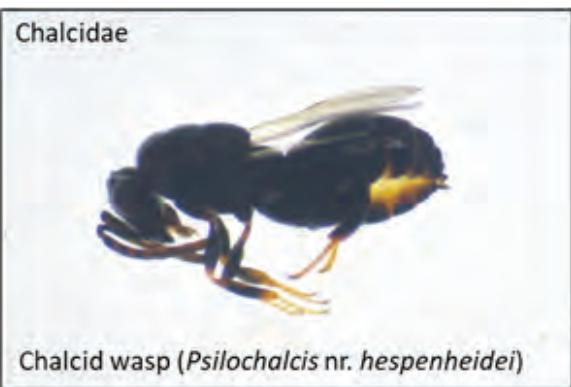
Large carpenter bee  
(*Xylocopa sonorina*)



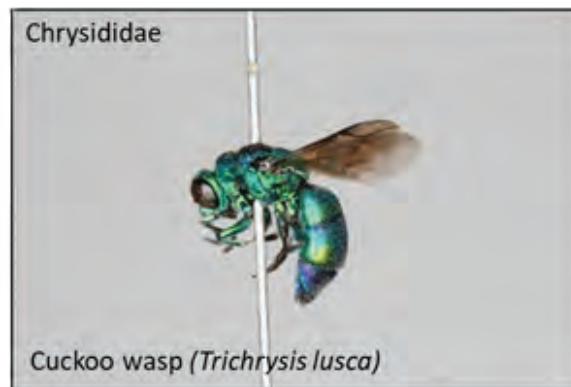
Small carpenter bee  
(*Ceratina dentipes*)



Bethylid wasp (*Epyris* sp.)



Chalcid wasp (*Psilochalcis* nr. *hespenheidei*)



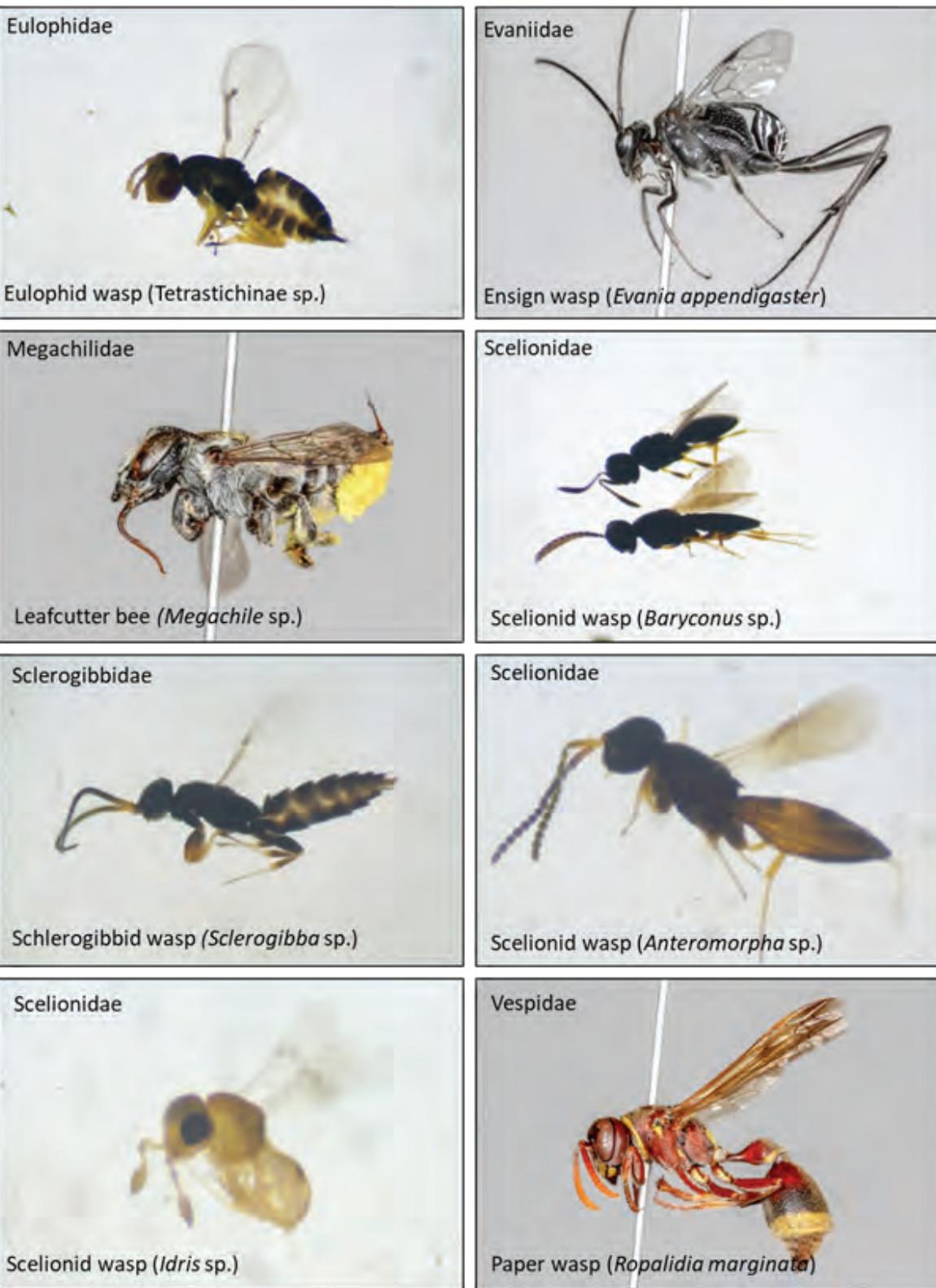
Cuckoo wasp (*Trichrysis lusca*)



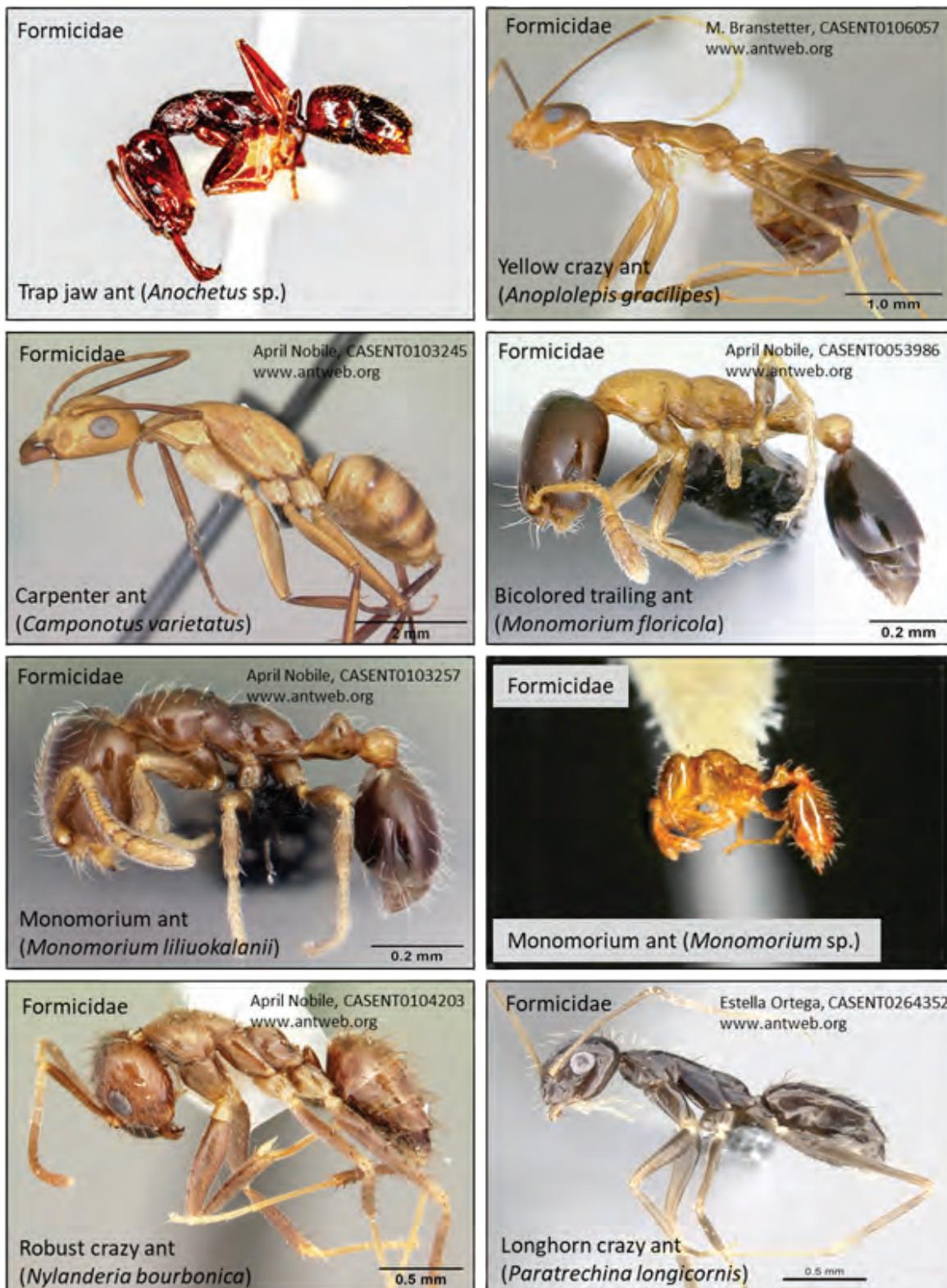
Crabronid wasp (Possibly *Liris* sp.)



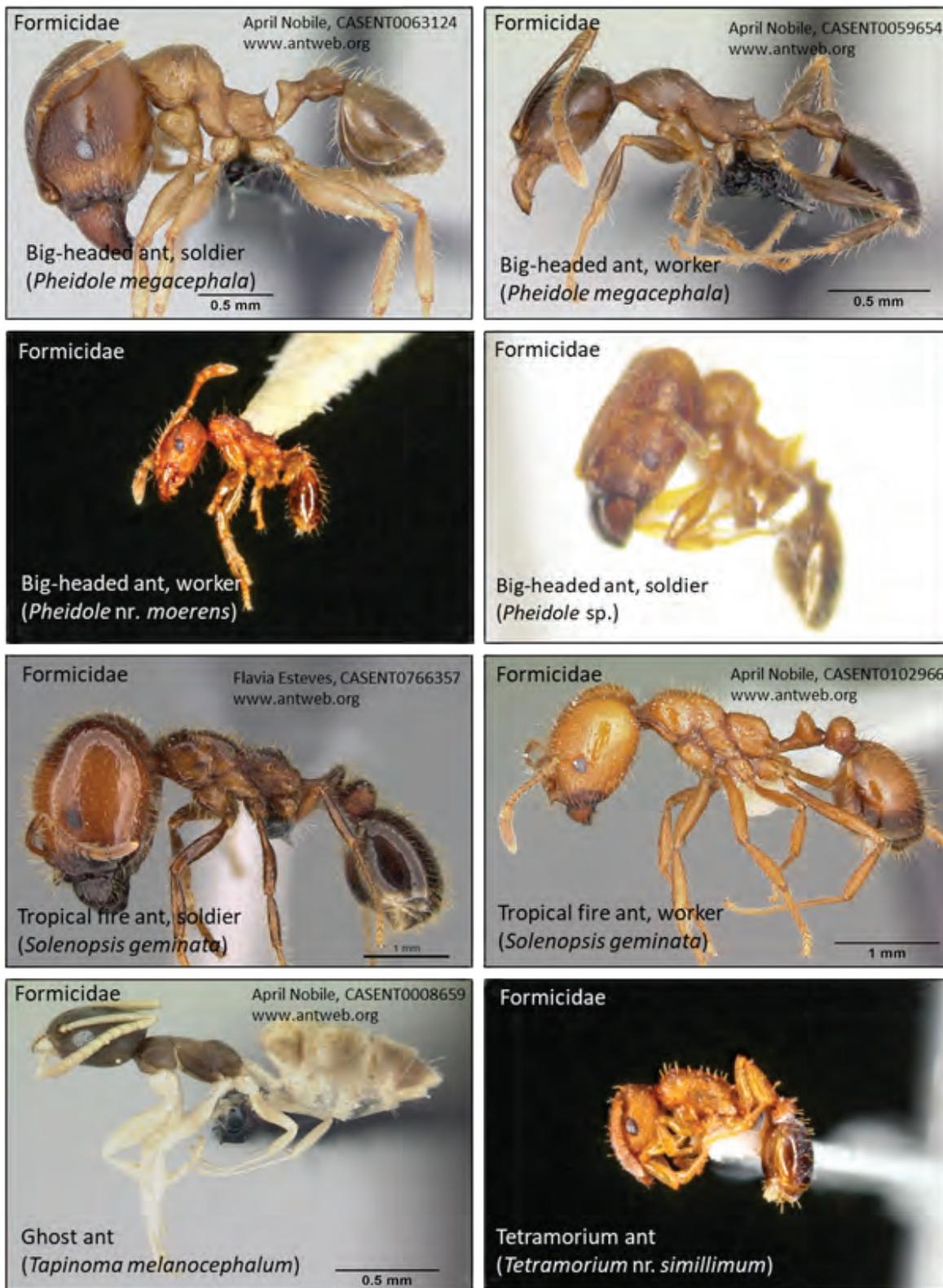
Crabronid wasp (*Pison* nr. *hospes*)

**Wasps and Bees (Insecta: Hymenoptera) from Wake Atoll—Continued**

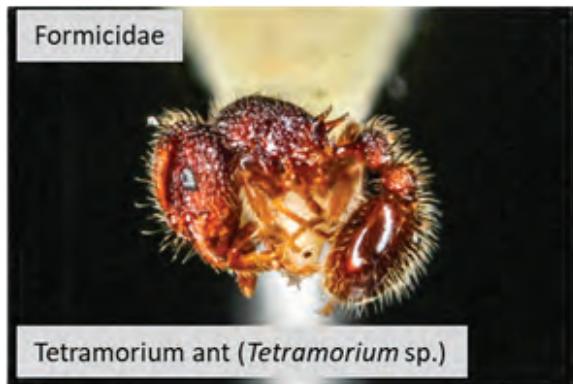
## Ants (Insecta: Hymenoptera) from Wake Atoll



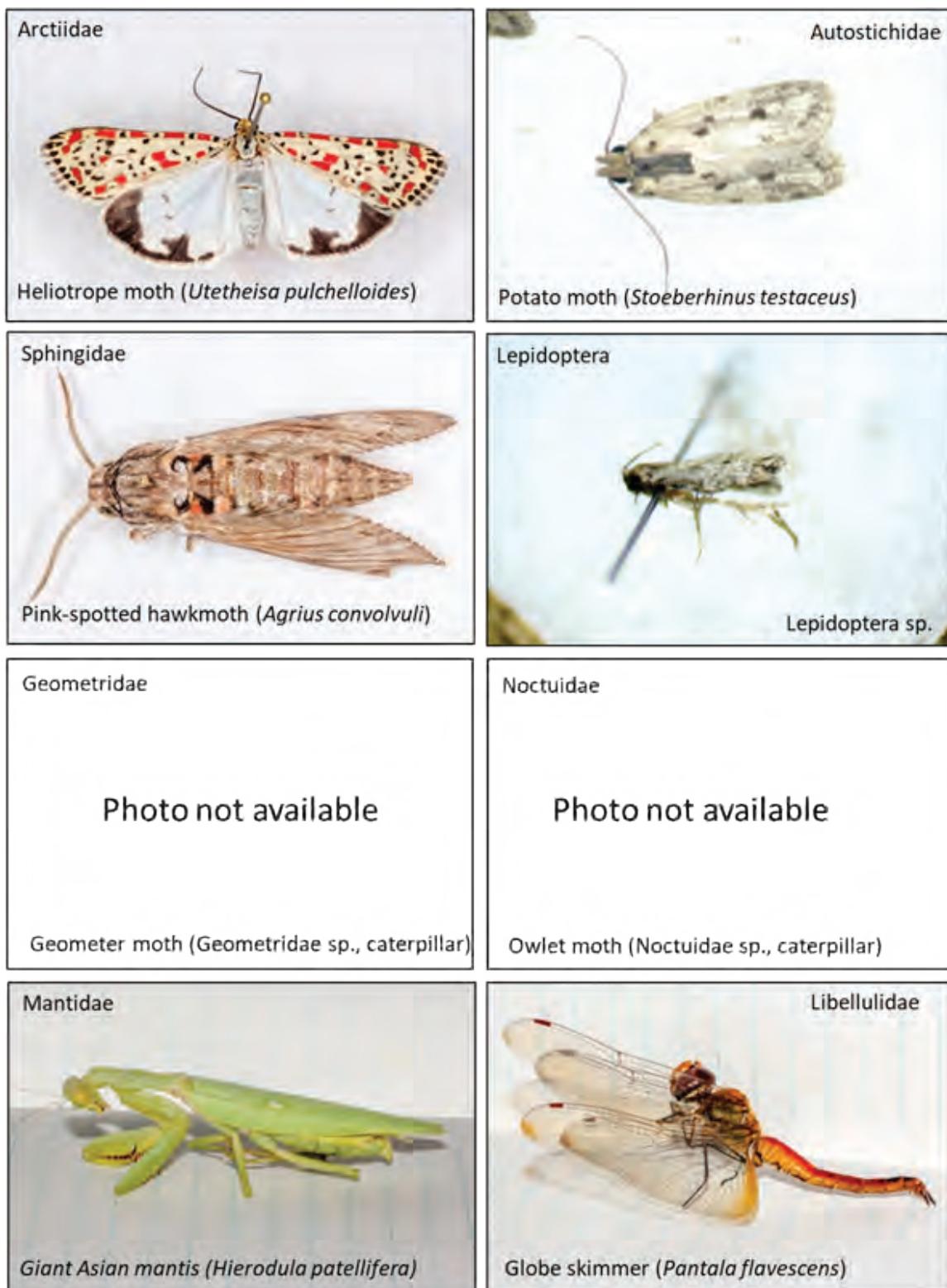
## Ants (Insecta: Hymenoptera) from Wake Atoll—Continued



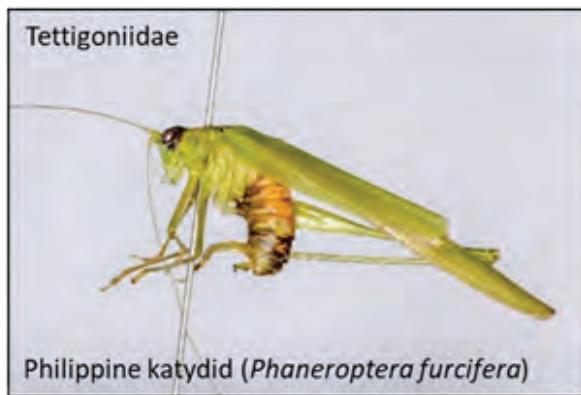
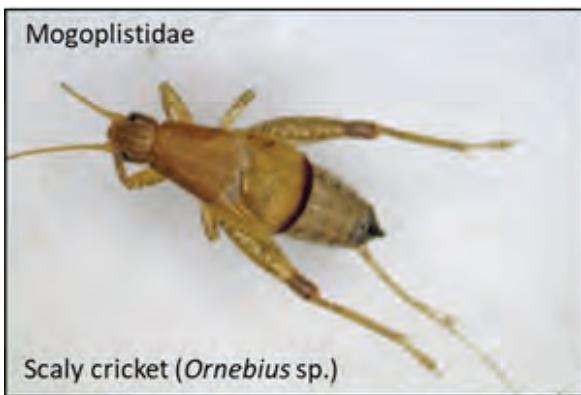
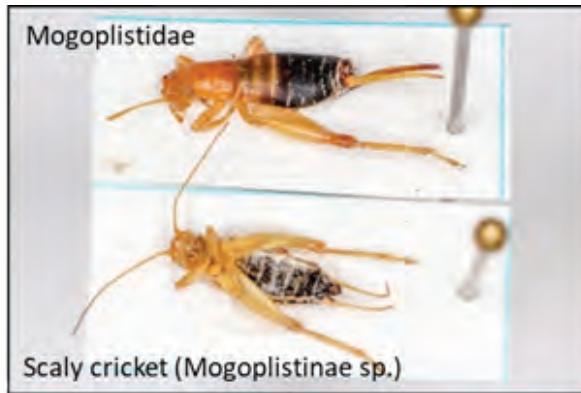
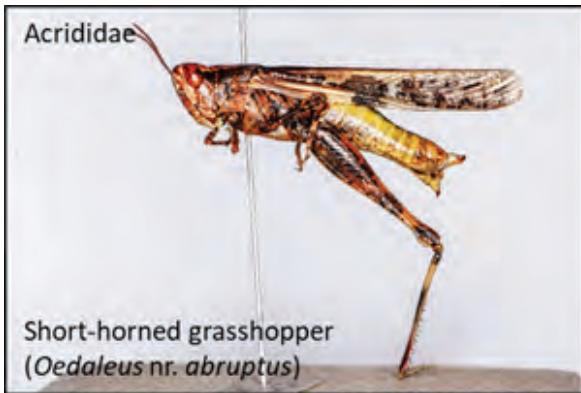
## Ants (Insecta: Hymenoptera) from Wake Atoll—Continued



**Moths (Insecta: Lepidoptera), Mantis (Insecta: Mantoidea), Dragonfly (Insecta: Odonata)  
from Wake Atoll**



## Crickets and Katydids (Insecta: Orthoptera) from Wake Atoll



**Booklice (Insecta: Psocoptera), Thrips (Insecta: Thysanoptera), Pill bugs (Malacostraca: Isopoda) from Wake Atoll**

