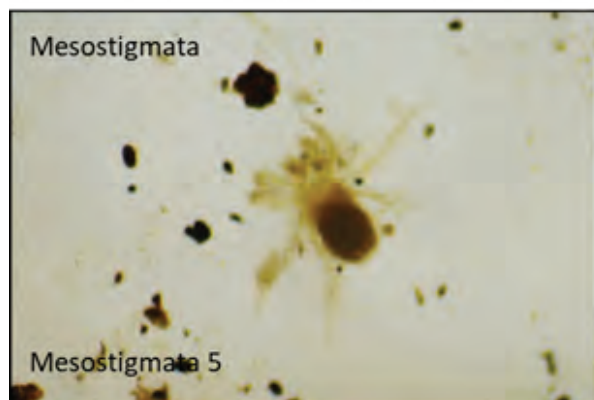
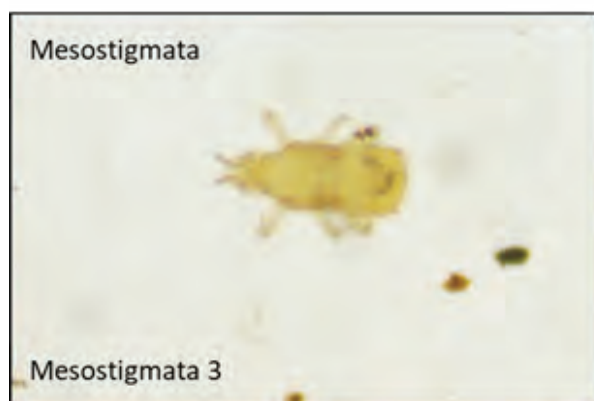
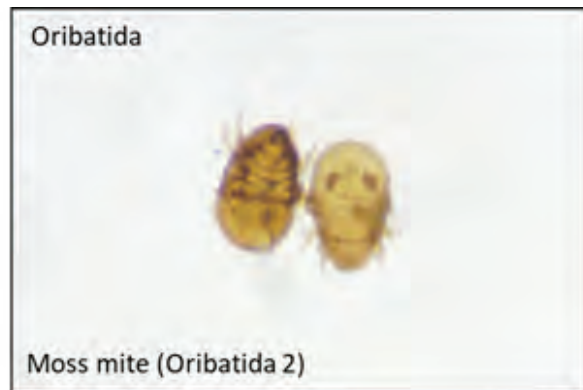


Appendix C1. Arthropod Field Guide to Wake Atoll

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).

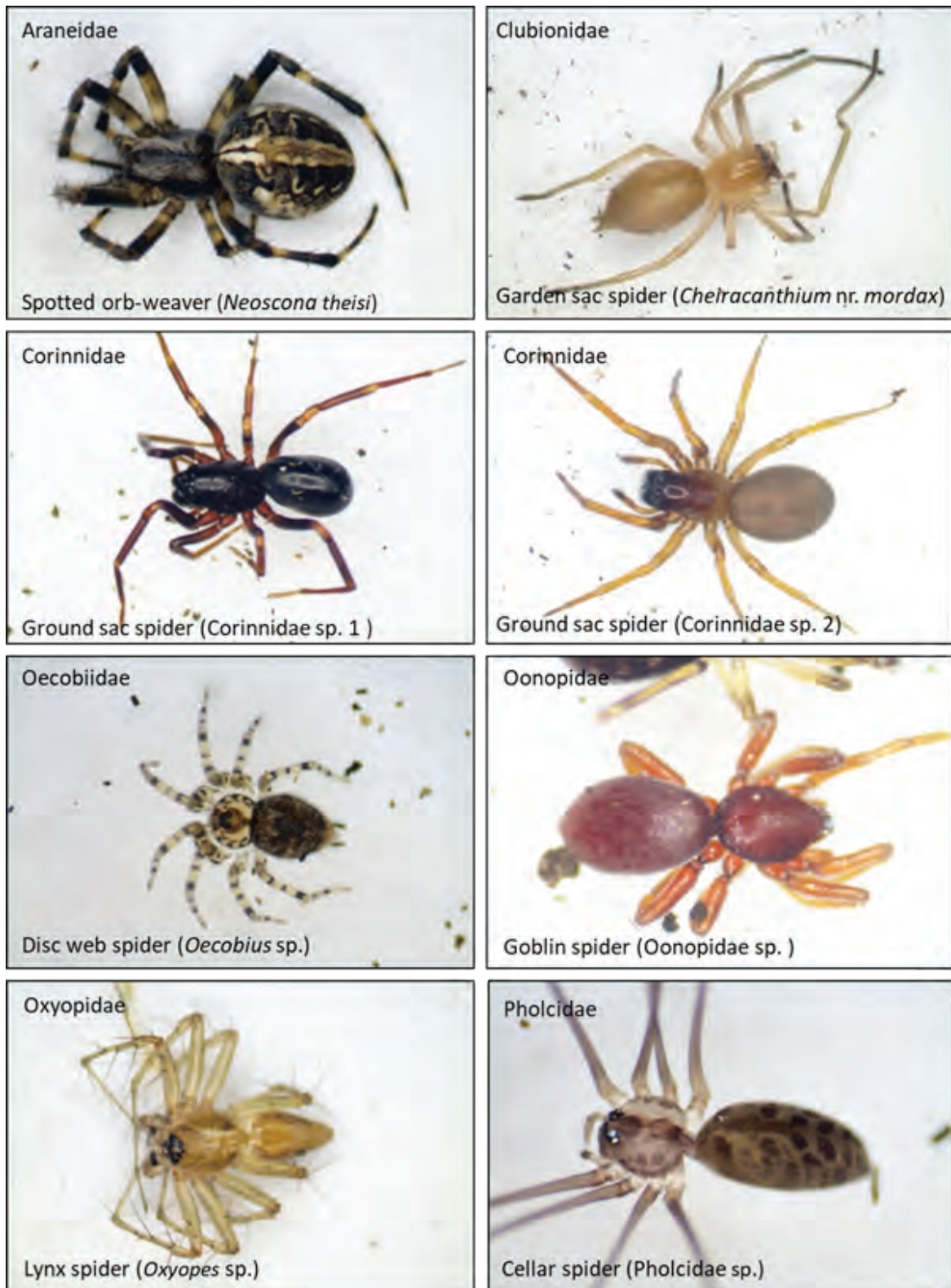
Mites (Acari: Mesostigmata) from Wake Atoll



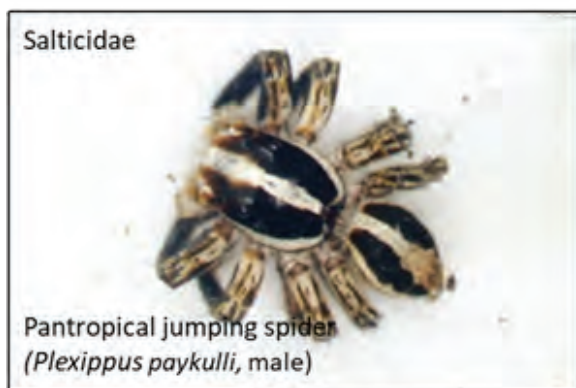
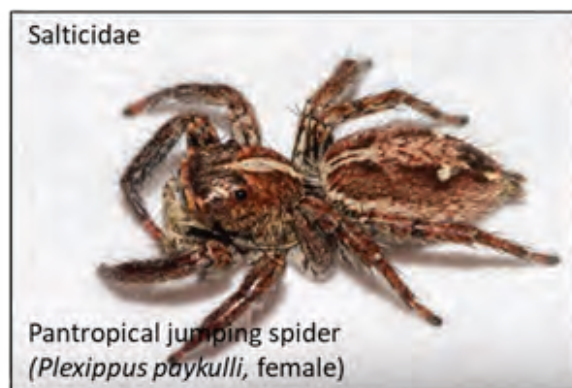
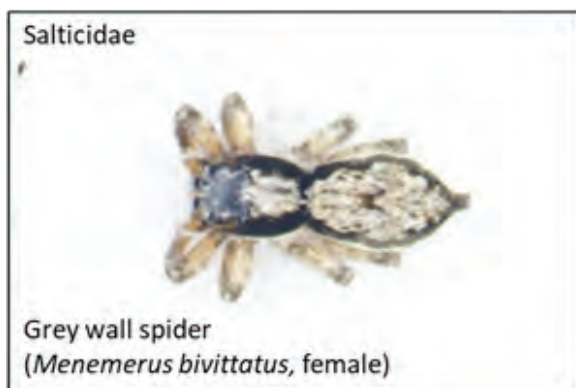
Moss Mites (Acari: Oribatida) from Wake Atoll

Moss Mites (Acari: Oribatida) from Wake Atoll—Continued

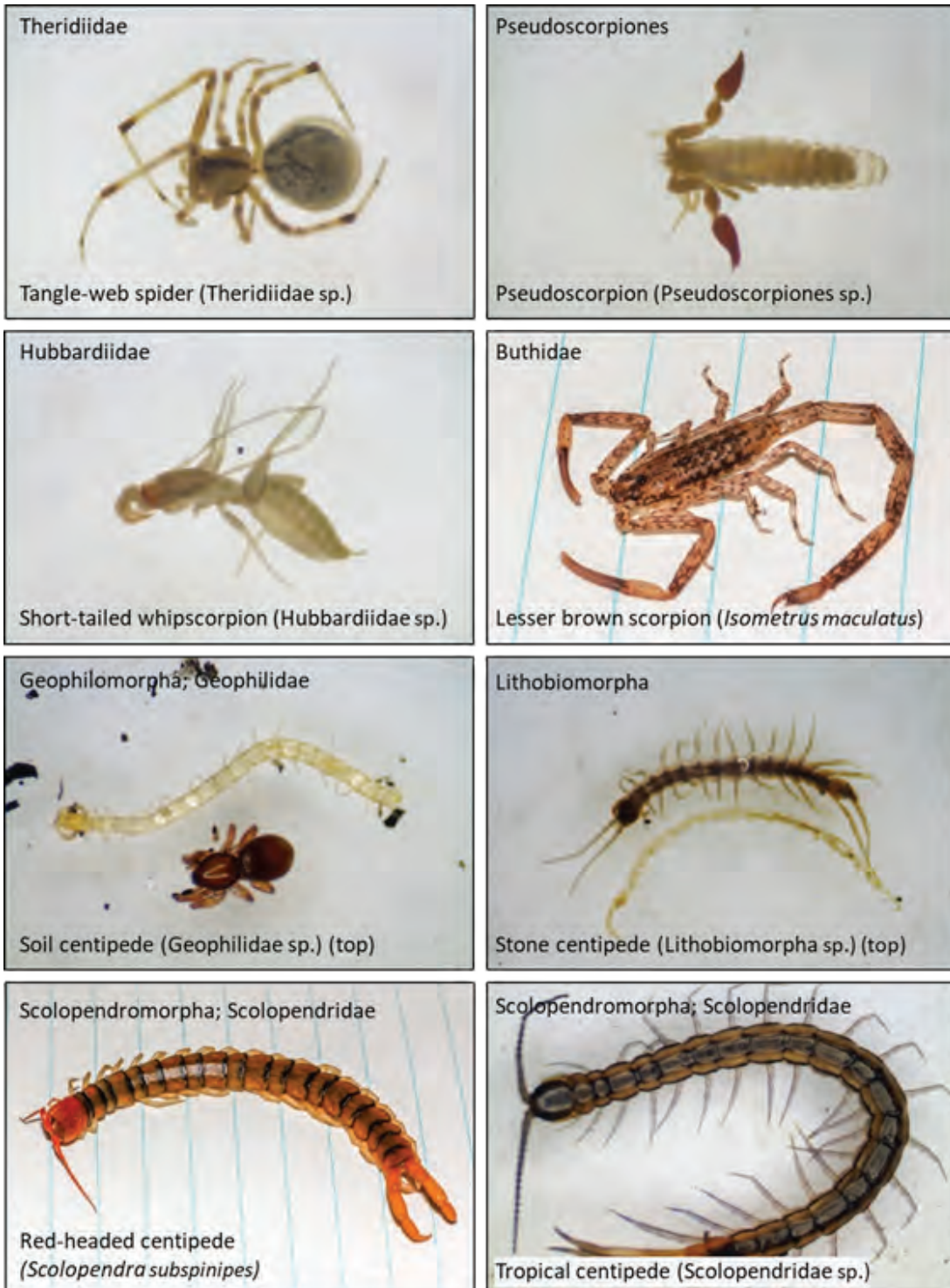


Spiders (Arachnida: Araneae) from Wake Atoll

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

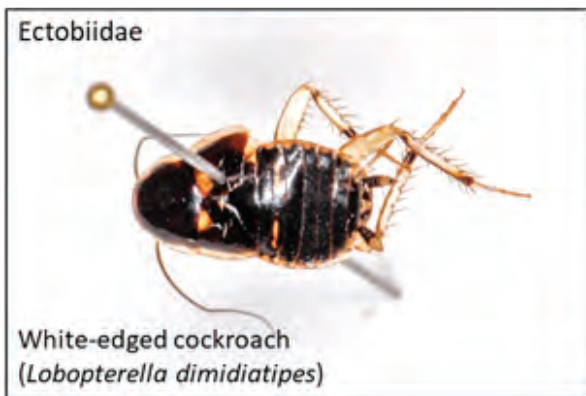
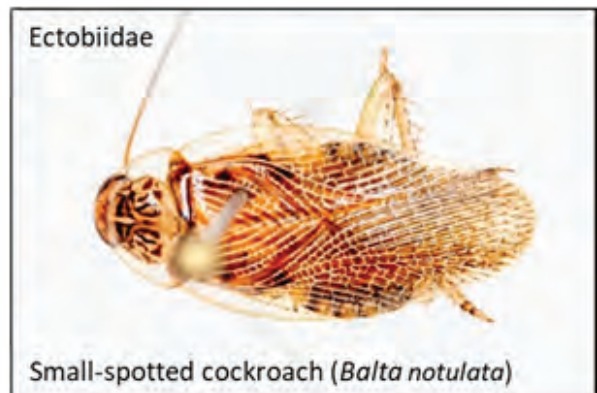
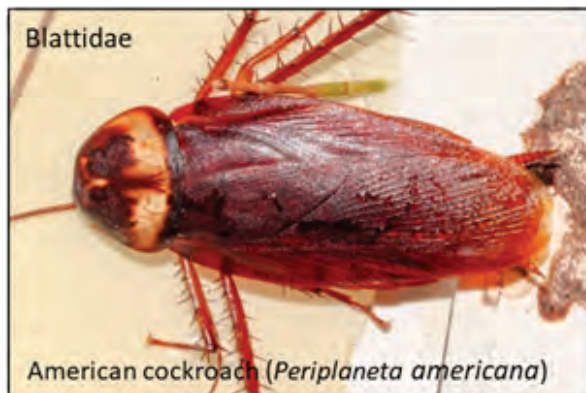
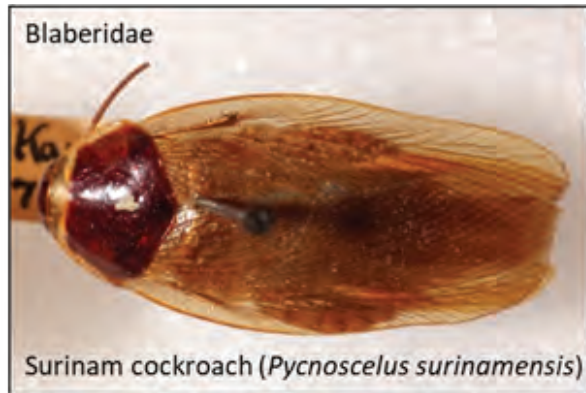


Springtail (Entomobryidae 2)

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 macrophthalmus*)

Chrysomelidae



Sweet potato flea beetle
(*Chaetocnema confinis*)

Coccinellidae




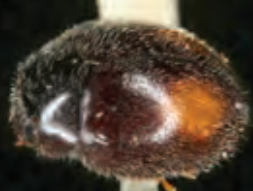





Ladybird beetle (*Brumoides suturalis*)

Coccinellidae



Ladybird beetle (*Coleophora inequalis*)

Beetles (Insecta: Coleoptera) from Wake Atoll—Continued

<p>Coccinellidae</p>  <p>Ladybird beetle (<i>Nephaspis</i> nr. <i>oculatus</i>)</p>	<p>Coccinellidae</p> <p>Photo not available</p> <p>Ladybird beetle (<i>Nephaspis</i> sp.)</p>
<p>Coccinellidae</p>  <p>Ladybird beetle (<i>Nephus</i> sp.)</p>	<p>Coccinellidae</p>  <p>Coccinellidae sp.</p>
<p>Curculionidae</p>  <p>Wilkes cryptorhynchine weevil (<i>Acalles wilkesii</i>)</p>	<p>Curculionidae</p>  <p>Cossine weevil (<i>Dryotribus mimeticus</i>)</p>
<p>Curculionidae</p>  <p>Cossine weevil (Cossoninae sp.)</p>	<p>Curculionidae</p>  <p>Pygmy wood borer (<i>Hypothenemus</i> sp.)</p>

Beetles (Insecta: Coleoptera) from Wake Atoll—Continued

Curculionidae



Broad-nosed weevil (*Mylocherus* sp.)

Dermestidae



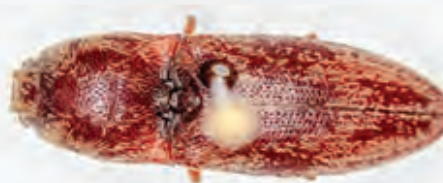
Black larder beetle (*Dermestes atar*)

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

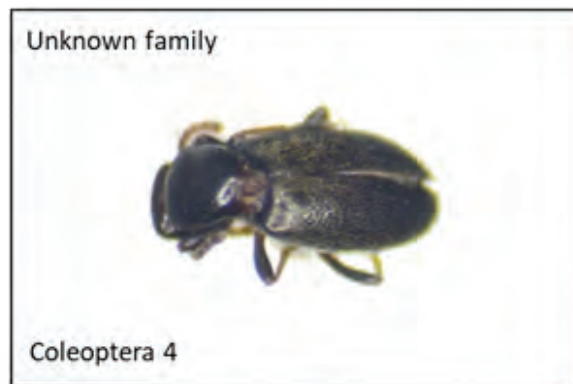
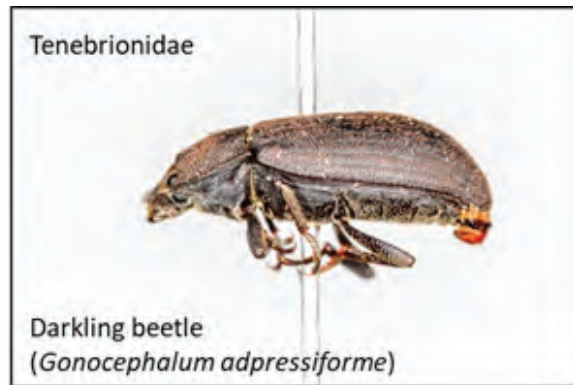


Small dung beetle (*Pleurophorus parvulus*)

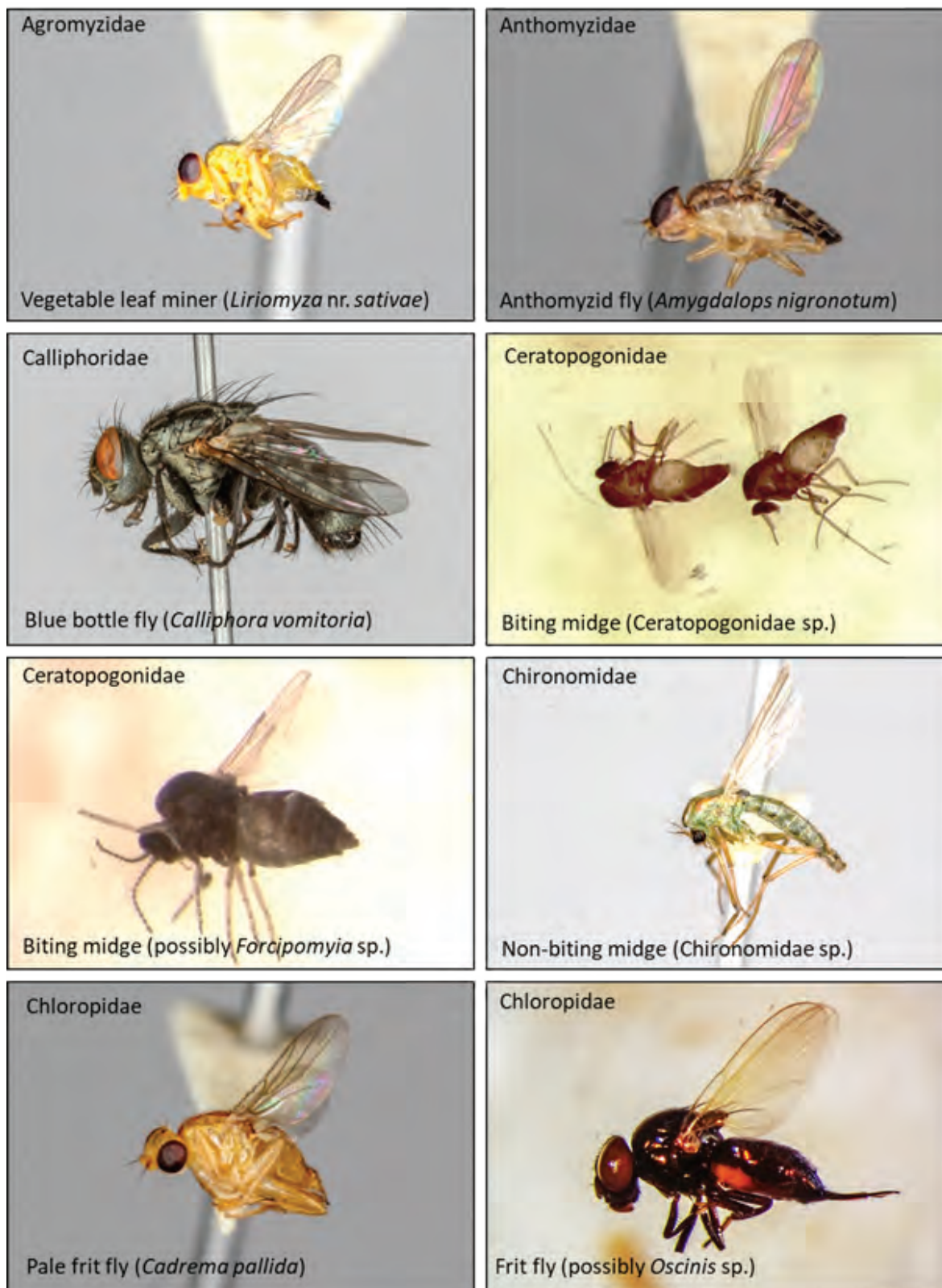
Scarabaeidae



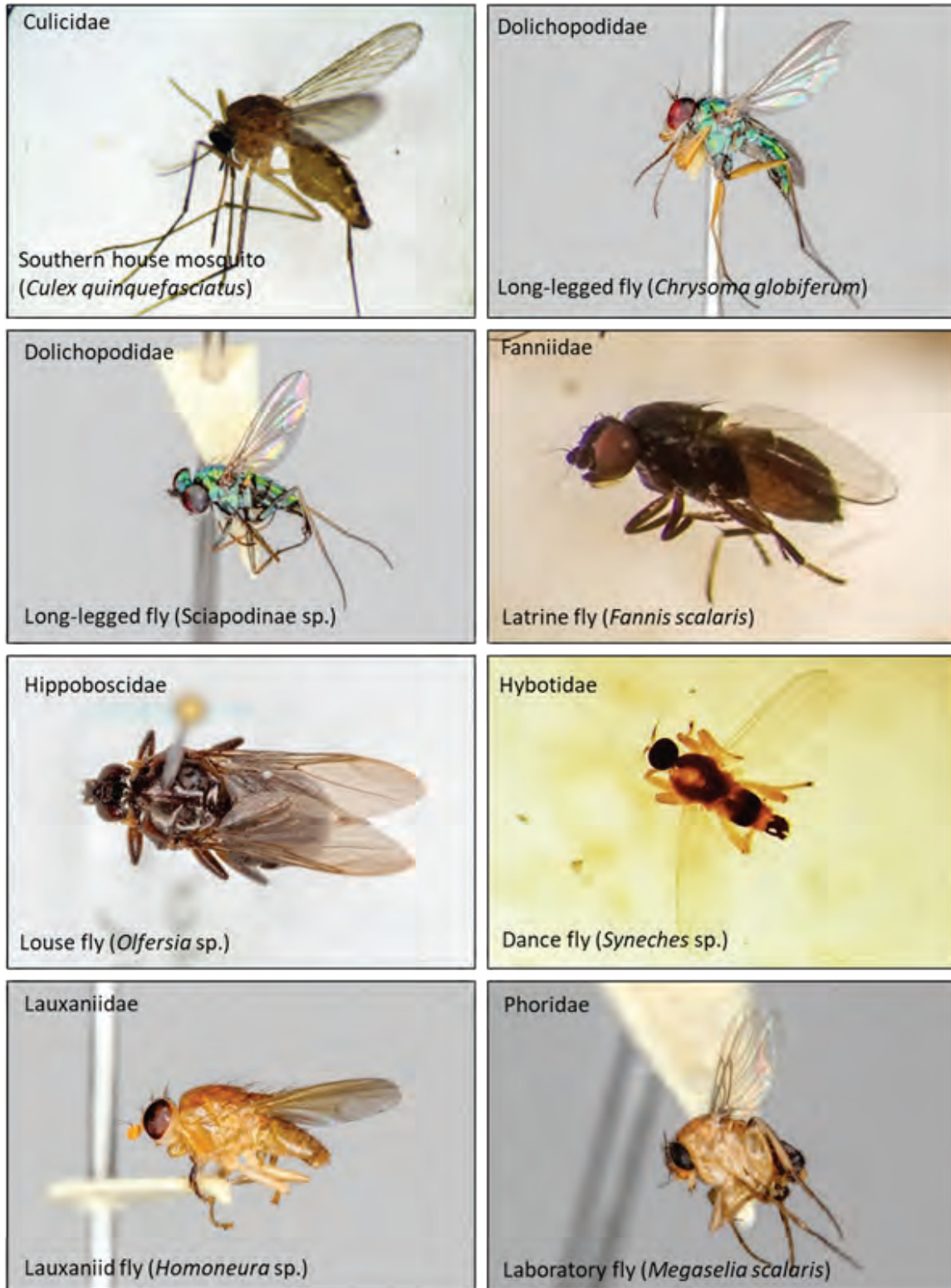
Mango flower beetle (*Protaetia fusca*)

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 (*Syrpitta* nr. *orientalis*)

Tachinidae



Tachinidae sp.

Tephritidae



Fruit fly (*Acinia picturata*)

Tephritidae



Fruit fly (*Dioxyna sororcula*)

Therevidae



Stilleto 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.)

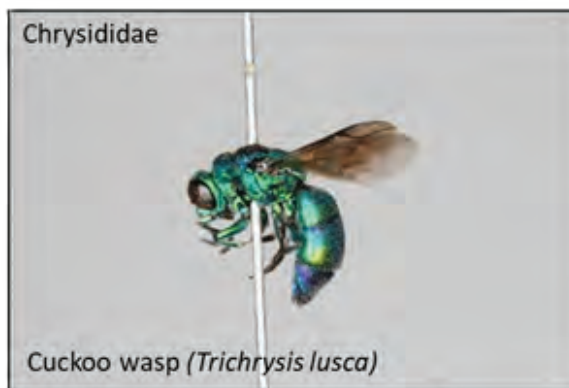
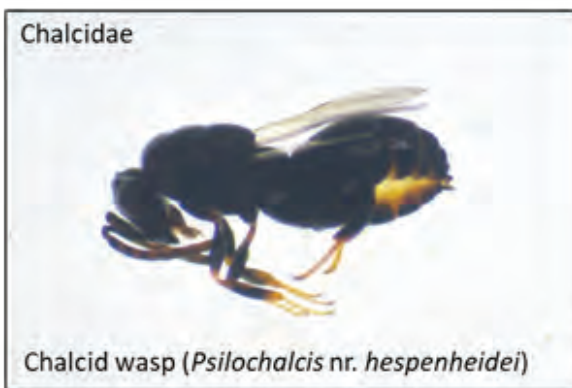
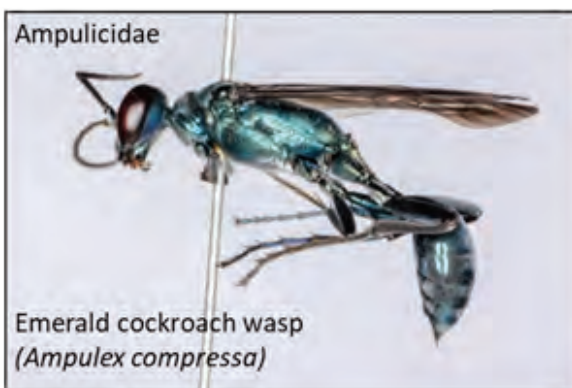
Reduviidae

Thread-legged bug (*Empicoris* sp.)

Rhyparochromidae

Seed bug (*Pachybrachius* nr. *pacificus*)

Wasps and Bees (Insecta: Hymenoptera) from Wake Atoll



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

Eulophidae

Eulophid wasp (*Tetrastichinae* sp.)

Evaniidae

Ensign wasp (*Evania appendigaster*)

Megachilidae

Leafcutter bee (*Megachile* sp.)

Scelionidae

Scelionid wasp (*Baryconus* sp.)

Sclerogibbidae

Schlerogibbid wasp (*Sclerogibba* sp.)

Scelionidae

Scelionid wasp (*Anteromorpha* sp.)

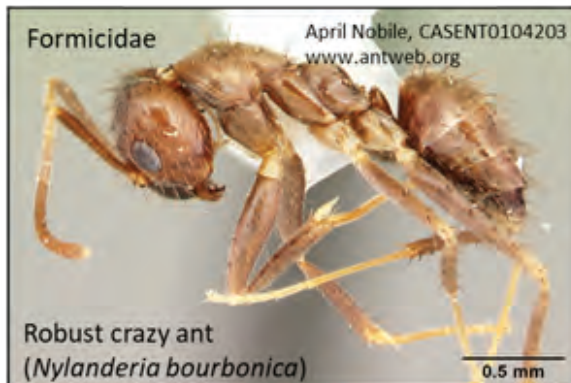
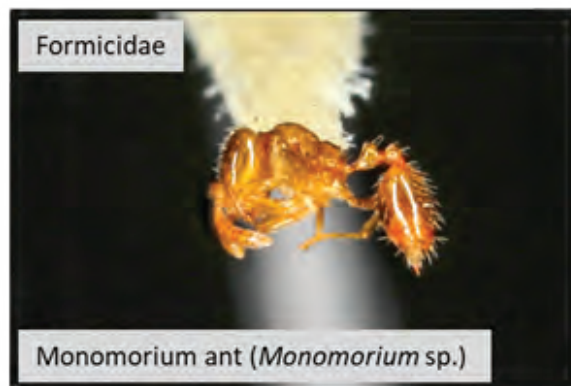
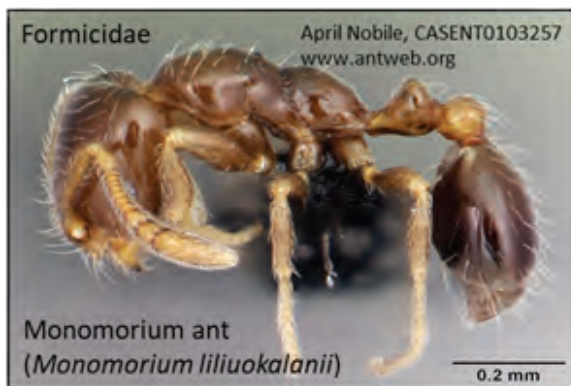
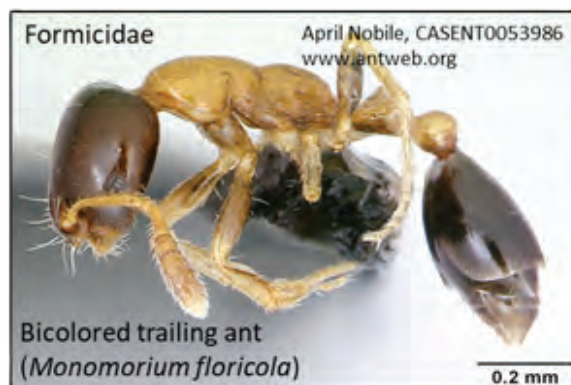
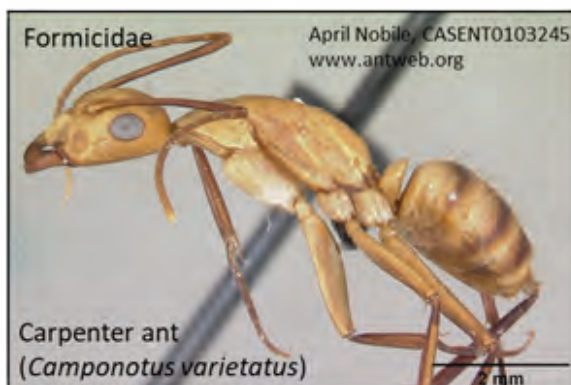
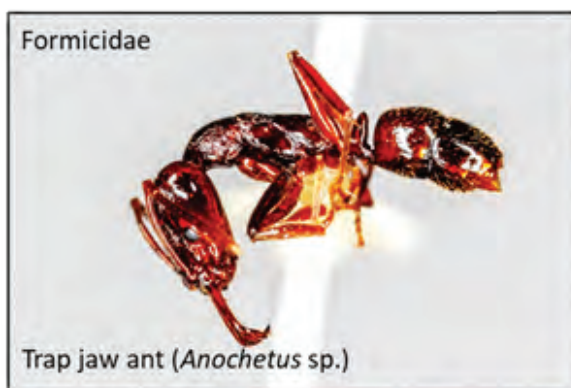
Scelionidae

Scelionid wasp (*Idris* sp.)

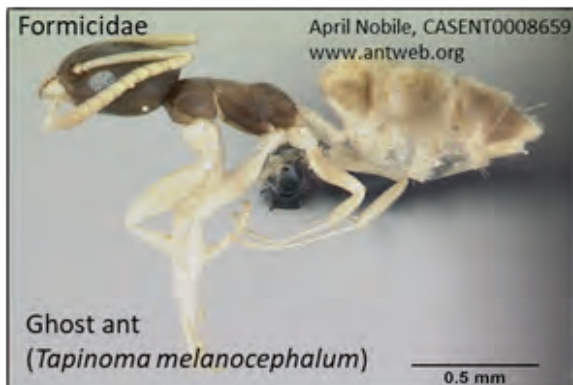
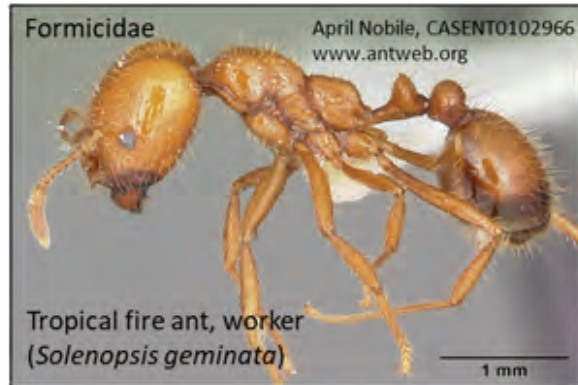
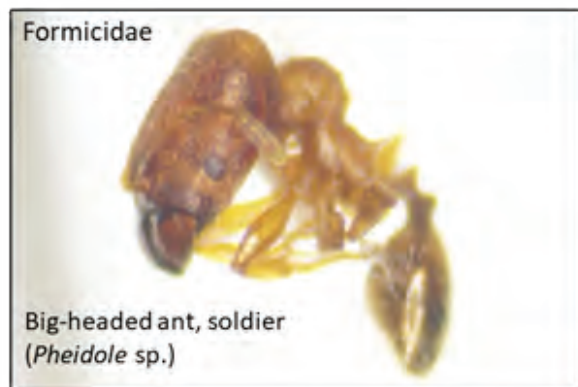
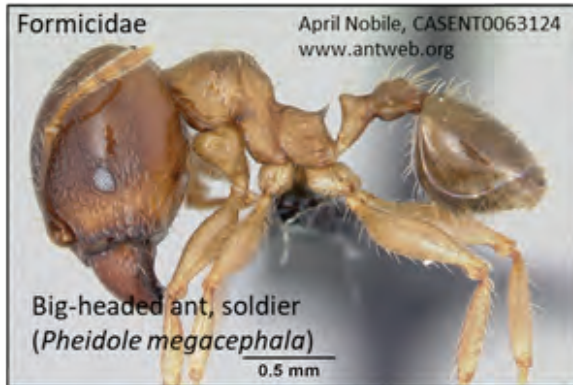
Vespidae

Paper wasp (*Ropalidia marginata*)

Ants (Insecta: Hymenoptera) from Wake Atoll









Ants (Insecta: Hymenoptera) from Wake Atoll—Continued



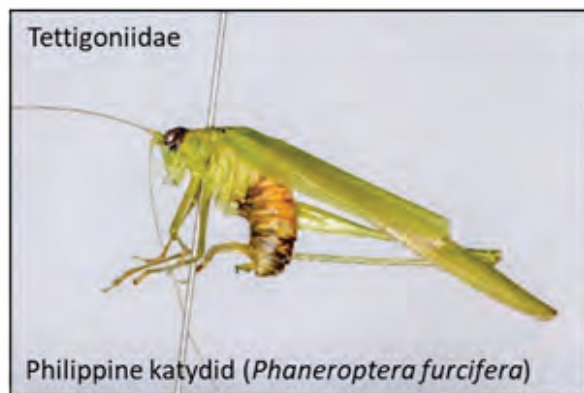
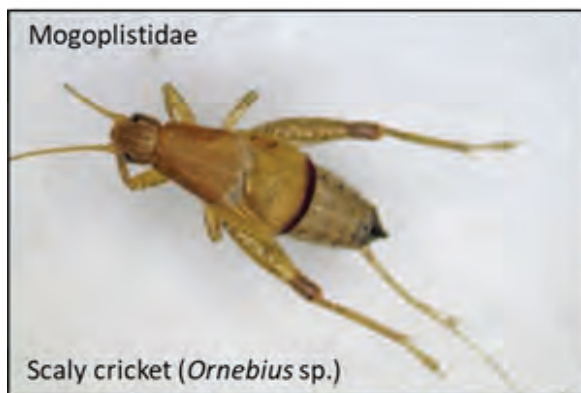
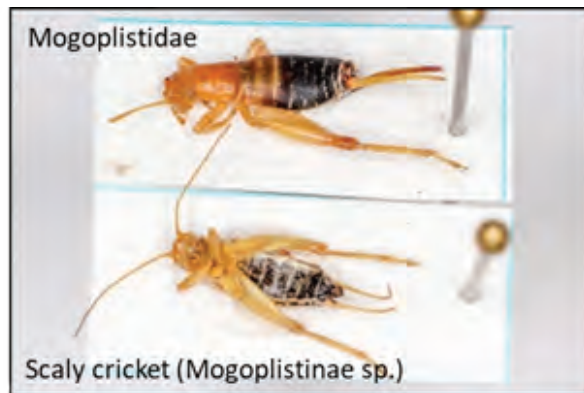
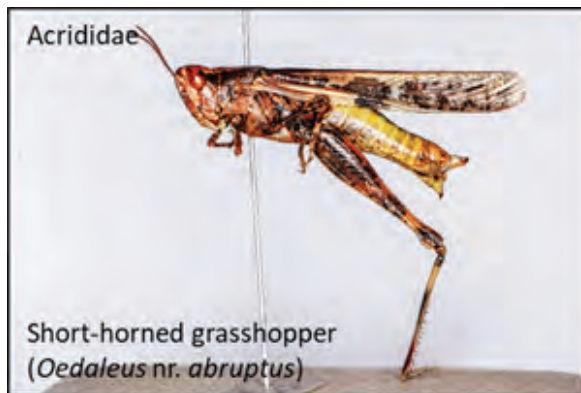
Ants (Insecta: Hymenoptera) from Wake Atoll—Continued



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

<p>Arctiidae</p>  <p>Heliotrope moth (<i>Utetheisa pulchelloides</i>)</p>	<p>Autostichidae</p>  <p>Potato moth (<i>Stoeberhinus testaceus</i>)</p>
<p>Sphingidae</p>  <p>Pink-spotted hawkmoth (<i>Agrius convolvuli</i>)</p>	<p>Lepidoptera</p>  <p>Lepidoptera sp.</p>
<p>Geometridae</p> <p>Photo not available</p> <p>Geometer moth (Geometridae sp., caterpillar)</p>	<p>Noctuidae</p> <p>Photo not available</p> <p>Owlet moth (Noctuidae sp., caterpillar)</p>
<p>Mantidae</p>  <p>Giant Asian mantis (<i>Hierodula patellifera</i>)</p>	<p>Libellulidae</p>  <p>Globe skimmer (<i>Pantala flavescens</i>)</p>

Crickets and Katydids (Insecta: Orthoptera) from Wake Atoll



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

