

Conspicuous insects and other invertebrates observed on the UNF campus

C. Hubbuch 2009 - present

It is estimated that over twelve thousand insect species live in Florida. Some are restricted to small areas or specific habitats while others range widely across the region. Many are so small that we pass them unaware of their presence. Following is a list of some of the more conspicuous insects that have been observed on campus.

Justin Lemmons, Environmental Center Ecologist (2013 – present) and Dr. Kerry Clark (College of Health) are important contributors to this list. Others contributed as indicated below.

References:

- Capinera, J.L. C.W. Scherer and J.M. Squitier. 2001. Grasshoppers of Florida. University Press of Florida.
- Dunkle, S.W. 1989. Dragonflies of the Florida Peninsula, Bermuda, and the Bahamas. Scientific Publishers. Gainesville, FL.
- Butterflies and Moths of North America (www.butterfliesandmoths.org)
- Bug Guide: (www.bugguide.net)

Blattodea: roaches

Periplaneta americana – American cockroach (J. Lemmons, 2014)

Coleoptera: beetles

- Acanthocinus nodosus* – lesser pine borer (J. Lemmons, 2013)
- Alnus oculatus* – eyed click beetle
- Calligrapha cephalanthi* – (J. Lemmons, Kacie Smith, 2015)
- Calosoma scrutator* - caterpillar hunter, fiery searcher (rarely sighted)
- Chalcophora georgiana* – southern sculptured pine borer
- Chilocorus stigma* – twice-stabbed lady beetle (J. Lemmons, 2013)
- Chrysomela scripta* – cottonwood leaf beetle (J. Lemmons, 2013)
- Coccinella septempunctata* – seven-spotted lady beetle (J. Lemmons, 2013)
- Coleomegilla maculata* – spotted lady beetle (J. Lemmons, 2013)
- Cotalpa lanigera* – goldsmith beetle (rarely sighted)
- Cotinis nitida* – copper & green June beetle
- Cryptocarenum seriatus* (J. Lemmons, 2015)
- Cycloneda sanguinea* – spotless lady beetle (J. Lemmons, 2013)
- Diaperis maculata* (J. Lemmons, 2013)
- Diaperis nigronotata* (J. Lemmons, 2013)
- Dynastes tityus* – rhinoceros beetle
- Euphoria sepulcralis* – dark flower scarab
- Harmonia axyridis* – multicolored Asian lady beetle (J. Lemmons, 2013)
- Hypothenemus eruditus* (J. Lemmons, Sedonia Steininger of Backyard Bark Beetles, 2015)
- Hypothenemus seriatus* (J. Lemmons, Sedonia Steininger of Backyard Bark Beetles, 2015)
- Ips grandicollis* – five-spined pine bark beetle (James Moody, ESI, 2013)

Lilioceris cheni – air potato leaf beetle (Hubbuck and Lemmons, September 2014)
Monochamus sp. (*M. carolinensis* or *M. titillator*) – pine sawyer (Hubbuck & Lemmons, 2013)
Odontotaenius disjunctus – Patent leather beetle (J. Lemmons, 2013)
Oncideres cingulata – twig girdler
Phyllophaga sp. – May beetle
Rhynchophorus cruentus – palm weevil
Trichiotinus sp. – flower scarab
Xylosandrus amputatus – Asian ambrosia beetle (J. Lemmons, 2014)

Diptera: flies and relatives

Aedes, *Culex* and others - mosquito (80 mosquito spp. in Florida)
Chrysops spp. – deer fly
Diachlorus ferrugatus – yellow fly
Lucilia sericata – common green bottle fly
Musca domestica – house fly
Mydas clavatus - mydas fly
Plecia nearctica – lovebug (Lemmons, 2014)

Hemiptera: true bugs

Acanthocephala terminalis – leaf-footed bug
Arilus cristatus – wheel bug (J. Lemmons, 2013)
Cyrptoptus belfragei – fulgorid planthopper (J. Lemmons and A. Baeurnfeind, 2014)
Diceroprocta olympusa – southern dog day cicada
Draeculacephala floridana – leafhopper (J. Lemmons, 2013)
Leptoglossus phyllopus – leaf-footed bug (J. Lemmons, 2013)
Euthyrhynchus floridanus – Florida predatory stink bug (J. Lemmons and Kyle Reeves, 2014)
Loxa flavicollis – stink bug (J. Lemmons, 2014)
Murgantia histrionica – harlequin bug (rarely sighted in Preserve)
Nersia florida – planthopper (J. Lemmons, 2013)
Nezara viridula – southern green stink bug (J. Lemmons, 2013)
Ormenaria rufifascia – palm flatid planthopper (J. Lemmons, 2013)
Orsilochides guttata – shieldbacked bug (J. Lemmons, 2013)
Tetyra bipunctata – shieldbacked pine seed bug (J. Lemmons and Kacie Smith, 2014)
Prosapia bicincta – two-lined spittlebug (J. Lemmons, 2013)
Spartocera fusca – no common name (J. Lemmons, 2013)
Zelus longipes – milkweed assassin bug (J. Lemmons, 2013)
Belastoma or *Lethocerus* sp. - giant water bug (7 spp. in Florida)

Hymenoptera: wasps, bees and ants

Apis mellifera - honey bee
Bombus spp. - bumble bee
Campsomeris plumipes fossulana – (a scoliid wasp)
Dolichovespula maculata – bald-faced hornet
Dorymyrmex bureni – pyramid ant (Ben Gochnour, J. Lemmons, 2014)

Eumenes fraternus – potter wasp (J. Lemmons, 2013)
Isodontia philadelphica – grass-carrying wasp
Monobia quadridens – four-toothed mason wasp (J. Lemmons, 2014)
Pogonomyrmex badius – Florida harvester ant
Pogonomyrmex sp. – harvester ant
Polistes spp. – paper wasp
Solenopsis invicta – fire ant
Sphecius speciosus – cicada killer
Vespula squamosa – southern yellowjacket
Xylocopa spp. – carpenter bee

Lepidoptera: butterflies and relatives

Papilionoidea – butterflies

Lycaenidae

Atlides halesus – great purple hairstreak (expected)
Calycopis cecrops – red-banded hairstreak
Satyrium favonius – Southern hairstreak
Strymon melinus – gray hairstreak (J. Lemmons, 2013)

Nymphalidae

Agraulis vanillae – Gulf fritillary
Anartia jatrophae – white peacock
Danaus gilippus – queen butterfly
Danaus plexippus – monarch butterfly
Enodia portlandia – Southern pearly eye butterfly
Heliconius charitonius – zebra longwing
Junonia coenia – common buckeye
Limenitis archippus – viceroy
Limenitis arthemis – red spotted purple
Megisto cymela – little wood-satyr butterfly
Nymphalis antiopa – mourning cloak
Phyciodes phaon – Phaon crescent
Satyroides appalachia – Appalachian brown (Berthet, Bill. "Sharing Memories with Butterflies." *Palmetto* 30.2 (2013): 12-15.)
Vanessa atalanta – red admiral
Vanessa virginiensis – American painted lady

Papilionidae

Battus philenor – pipevine swallowtail
Eurytides marcellus – zebra swallowtail
Papilio cresphontes – giant swallowtail
Papilio glaucus – tiger swallowtail
Papilio palamedes – palamedes swallowtail
Papilio polyxenes – black swallowtail
Papilio troilus – spicebush swallowtail

Pieridae

Eurema daira – barred yellow
Eurema lisa – little yellow

Phoebis philea – orange-barred sulfur (J. Lemmons, 2013)

Phoebis sennae – cloudless sulfur butterfly

Hesperioidea - skippers

Hesperiidae

Epargyreus clarus - silver-spotted skipper (Hubbuck & Lemmons, 2014)

Ephyriades brunneus – Florida duskywing

Hylephila phyleus – fiery skipper

Megathymus yuccae - giant yucca skipper

Pyrgus oileus – tropical checkered skipper

Urbanus proteus – long-tailed skipper

Moths

Erebidae

Apantesis phalerata – (May 2012)

Ascalapha odorata – black witch

Catocala carissima – carissima underwing (J. Lemmons, 2013)

Estigmene acrea – salt marsh moth (Hubbuck & Lemmons, 2014)

Hypercompe scribonia – giant leopard moth (J. Lemmons, 2013)

Hyphantria cunea - fall webworm

Orgyia detrita – oak tussock moth

Orgyia leucostigma – white-marked oak tussock moth

Ptichodis vinculum – black-tipped Ptichodis moth (J. Lemmons, 2013)

Utetheisa ornatrix – bella moth

Lasiocampidae

Malacosoma americana – eastern tent caterpillar

Limacodidae

Acharia stimulea – saddleback caterpillar

Megalopygidae

Megalopyge opercularis – southern flannel moth (J. Lemmons, 2013)

Noctuidae

Acronicta americana – American dagger moth (J. Lemmons, 2014)

Exyra semicrocea – pitcher plant mining moth (J. Lemmons, 2014)

Schinia jaguarina – jaguar flower moth (J. Lemmons, 2015)

Schinia sanguinea – bleeding flower moth (J. Lemmons, 2013)

Pyralidae

Cactoblastis cactorum – cactus moth (on cultivated plants, A. Taylor & Hubbuck, 2014)

Saturniidae

Actias luna - luna moth

Anisota virginiensis – pink-striped oakworm moth (Hubbuck & Lemmons, 2013)

Automeris io - io moth

Callosamia securifera – sweetbay silk moth (Hubbuck & Lemmons, 2014)

Dryocampa rubicunda – rosy maple moth (Lemmons, 2014)

Eacles imperialis – imperial moth (Paul Yeoman, 2013)

Hemileuca maia – buck moth

Hyalophora cecropia – cecropia moth

Telea polyphemus – polyphemus moth

Sphingidae

Amphion floridensis – nessus sphinx (Hubbuck & Lemmons, 2014)

Enyo lugubris – mournful sphinx (J. Lemmons, 2013)

Eumorpha fasciatus – banded sphinx moth

Xylophanes tersa – tersa sphinx moth (J. Lemmons, 2013)

Mantodea: mantids

Brunneria borealis – Brunner's mantis (J. Lemmons, 2013)

Gonatista grisea – grizzled mantid

Thesprotia graminis - grass mantid

Megaloptera: alderflies, dobsonflies and fishflies

Chauliodes rastricornis – spring fishfly (J. Lemmons, 2013)

Neuroptera: antlions, lacewings and allies

Dicromantispa sayi – mantisfly, mantispa (with J. Lemmons, 2013)

Odonata: dragonflies and damselflies

Anax junius – green darner

Anax longipes – comet darner (rare, 8/30/13)

Argia fumipennis atra – black dancer damselfly

Brachymesia gravida – four-spotted pennant

Calopteryx maculata - ebony jewelwing damselfly

Celithemis eponina – Halloween pennant

Dromogomphus armatus – southeastern spinyleg (J. Lemmons, 2014)

Erythemis simplicicollis – eastern pondhawk

Erythrodiplax connata minuscula – blue dragonlet

Libellula axilena – roseate skimmer

Libellula vibrans – great blue skimmer (J. Lemmons, 2013)

Perithemis tenera – eastern amberwing (J. Lemmons, 2013)

Plathemis lydia – common whitetail (uncommon here)

Tamea carolina – Carolina saddlebags

Tamea lacerata – black-mantled dragonfly

Orthoptera: grasshoppers, katydids and crickets

Achurum carinatum – longheaded toothpick grasshopper

Aptenopedes sphenarioides – linearwinged grasshopper

Arphia granulata – southern yellowwinged grasshopper (J. Lemmons, 2013)

Atlanticus gibbosus – robust shieldbacked katydid (J. Lemmons, 2013)

Chortophaga australior – southern redlegged grasshopper (J. Lemmons & Hubbuck, 2013)

Conocephalus fasciatus fasciatus – slender meadow katydid (J. Lemmons, 2013)

Dichromorpha elegans – elegant grasshopper (Hubbuck & McGregor, 2011)

Mermiria bivittata – two-striped mermiria (Hubbuck, J. Lemmons & Amanda Andersen, 2013)

Mermiria picta – lively mermiria

Pardalophora phoenicoptera – orangewinged grasshopper (J. Lemmons, 2013)

Paroxya atlantica – Atlantic grasshopper (Hubbuck & McGregor, 2011)

Paroxya clavuliger – olivegreen swamp grasshopper (Hubbuck & Lemmons, 2013)

Psinidia fenestralis – longhorn bandwinged grasshopper (Hubbuck & McGregor, 2011)

Romalea microptera – eastern lubber grasshopper

Scapteriscus borellii – southern mole cricket (J. Lemmons, 2014)

Scapteriscus vicinus – tawny mole cricket (J. Lemmons, 2014)

Schistocera alutacea – rusty grasshopper

Schistocerca americana – American bird grasshopper

Schistocerca obscura – obscure bird grasshopper

Spharagemon crepitans – crepitating grasshopper (J. Lemmons, 2013)

Stenacris vitrepennis – glassywinged toothpick grasshopper

Phasmatodea – walking sticks

Anisomorpha buprestoides – two-striped walkingstick (J. Lemmons, 2013)

Arachnids

Araneae: spiders

Argiope aurantia – yellow garden spider

Dolomedes triton – six-spotted fishing spider

Gasteracantha cancriformis – spinybacked spider

Latrodectus mactans - black widow spider

Leucauge venusta – orchard orbweaver, orchard spider

Mecynogea lemniscata – basilica spider (Hubbuck & Chelsea Metzgar, 2013)

Micrathena gracilis – spined micrathena

Micrathena sagittata – arrowshaped micrathena (J. Lemmons & Nichole Bishop, 2013)

Misumenoides formosipes – whitebanded crab spider (Lemmons, 2013)

Neoscona domiciliorum – spotted orbweaver

Nephila clavipes – golden silk spider, banana spider

Peucetia viridans – green lynx spider

Verrucosa arenata – arrowhead orb weaver (rarely sighted)

Scorpiones: scorpions

Centruroides hentzi – Hentz striped scorpion (J. Lemmons, 2013)

Ixodida: ticks (documented by Dr. Kerry Clark)

Amblyomma americanum - lone star tick

Amblyomma maculatum - Gulf Coast tick

Amblyomma tuberculatum - gopher tortoise tick

Dermacentor variabilis - American dog tick

Ixodes affinis – no common name

Ixodes minor – no common name

Ixodes scapularis – Eastern blacklegged tick

Centipedes and Millipedes

Narceus americanus – millipede

Scolopendra viridis – Florida blue centipede (J. Lemmons, 2013)

Sigmoria latior – millipede (J. Lemmons, 2013)

Molluscs

Bradybaena similaris - Asian tramp snail (Annie Bush, B51, 2013)

Drymaeus dormani - manatee snail (Jake FitzRoy, 2014)

Euglandina rosea - rosy wolf snail

Mesodon thyroidus – white-lipped globe snail (Annie Bush, B39, 2013)

Philomycus carolinianus – Carolina mantleslug (J. Lemmons, 2013)

Ventridens demissus – perforate dome snail (Annie Bush, B51, 2013)

Zonitoides arboreus – quick gloss, orchid snail

Crustaceans

Palaemonetes aff. *paludosus* – grass shrimp (tentative ID by Justin Lemmons, 2014)

aff. *Procambarus alleni* - Florida crayfish (tentative ID by Justin Lemmons, 2014)

Other organisms

Anaplasma phagocytophilum – cause of human granulocytic anaplasmosis (Dr. Kerry Clark)

Babesia microti – cause of human babesiosis (Dr. Kerry Clark)

Borrelia burgdorferi – Lyme borrelia (Dr. Kerry Clark)

Borrelia lonestari – found in lonestar ticks (Dr. Kerry Clark)