

SUPPLEMENT TO FLORIDA INSECTS TAKEN IN LIGHT TRAPS¹

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ABSTRACT

Two hundred and eighty eight new records have been obtained since publication of the previous lists of insects taken in light traps at the Archbold Biological Station, Highlands County, Florida. A new genus and species of aphid *Grylloprociphilus frosti* Smith and Pepper and records of two new species of Coleoptera, *Eurygyne frosti* Dybas and *Serica frosti* Dawson, are included. Several species are recorded from Florida for the first time.

The first list of insects taken in light traps at the Archbold Biological Station appeared in 1964 (Frost 1964). Two years later additions to this list were published (Frost 1966). Sufficient new records have been obtained to warrant additions. Many new species have been retained by specialists for study and description. Methods of entry and abbreviations are the same as those used in the previous lists.

LIST OF SPECIES

ORTHOPTERA (S. W. Frost)

Cycloptilum trigonipalpus (R.&H.) 3/25
Acheta assimilis Fab. 2/26, 3/27, 4/8, 4/27

NEUROPTERA

Mantispidae (R. G. Beard, CU)

Mantispa sayi Banks delete from 1964 list
Mantispa interrupta Say 3/17 to 5/7 SC.

Chrysopidae (P. A. Adams, UC)

Chrysopa bimaculata McClendon 1/26, 2/8
Chrysopa incompleta Banks 3/8
Chrysopa near *lineaticornis* Fitch 3/4, 3/16, 3/26, 3/30
Nodita pavida Hagen 3/17

Conioprerygidae, at least three species have been retained by M. Meinander, Finland for study.

EPHEMEROPTERA (L. Berner, UF)

Baetidae

Callibaetis floridanus Banks 1/8
Centroptilum viridoculare Berner 1/17, 3/13, 3/30
Hexagenia mundo orlando Traver 4/28

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ODONATA (G. H. and A. F. Beatty, State College, Pa.)

Zygoptera

Enallagma laurenti Calvert 5/7*Ischnura posita* Calvert 5/22*Nehalennia pallidula* Calvert 4/22

PSOCOPTERA (E. L. Mockford, ISU)

Lachesillidae

Lachesilla pedicularia (Linn.) 4/24

Caecillidae

Caecilius tamiama Mockford 3/5*Graphocaecilius* sp. 4/2

Peripsocidae

Ectopsocus meridionalis Ribaga*Peripsocus madescens* complex 2/13*Peripsocus madidus* (Hagen) 1/4, 2/13*Peripsocus stragnivagus* Chapman 1/11, 3/25

Psocidae

Blaste opposita (Banks) 3/12*Psocidus submarginatus* (Aaron) 1/22

Myopsocidae

Lichenomima sp. B 2/22

HOMOPTERA

Membracidae (R. C. Froeschner, USNM)

Archasia galeata (Fab.) 4/1 to 4/28*Cyrtolobus clarus* Woodruff 4/21*Enchenopa binotata* (Say) 4/18 to 4/27*Entylia concisa* Walker 2/26*Ophiderma flaviguttula definita* Woodruff 1/23*Ophiderma pubescens* (Emmons) 3/31, 4/13*Telamona* new sp. 4/11, 4/22, 4/24, 4/25Cicadellidae (J. P. Kramer except *Erythroneura* L. Hepner MSC)*Chlorotettix productus* Saund. & DeLong 1/5, 2/10, 2/14, 2/21, 3/12*Erythroneura brevipes* Beamer 2/9*Erythroneura comoides* Ross & DeLong 1, 2, 4 S.C.*Erythroneura florida* Ross & DeLong 1/26*Gyponana octolineata cana* Burm. 4/29*Homalodisca coagulata* (Say) 5/7*Norvellina seminuda* (Say) 4/16*Scaphoideus* sp. 1/25

Fulgoridae

Bothriocera tinealis Burm. 4/29, 5/3*Cedusa* sp. 11, 3, 4*Delphacodes* sp. 2/12

- Megamelus gracilis* Beamer 1/4
Ormenaria rufifascia (Wlk.) 4/27, 4/28, 5/7
Sogata sp. 11/16
 Aphididae (J. O. Pepper, PSU)
Aphis sambucifoliae Fitch 1/11
Colopha ulmisacculi Patch 1/11
Grylloprociphilus frosti Smith & Pepper 1, 2, 3, 104 specimens Jan. 4.
 Cicadidae
Cicadetta calliope floridensis Davis 5/24
 HEMIPTERA (R. C. Froeschner USNM)
 Scutelleridae
Sphyrocoris obliquus (Germar) 1/5
Symphylus caribbeanus Kirkaldy 4/7
 Pentatomidae
Arvelius albopunctatus (De Geer) 4/17
Piezodorus guildinii (Westw.) 3/12, 3/15, 3/20, 4/11
Solubea pugnax (Fab) 3/10 S. C.
Thyanta perditor (Fab.) 4/11
 Coreidae
Hyalymenus longispinus Stål. 2/13, 3/7
Leptocorixa filiformis (Fab.) 11, 3, S. C.
Leptocorixa tipuloides (De Geer) delete from 1964 list.
Namacus annulicornis Stål. 5/7
Namacus sp. 5/26, 5/28
 Lygaeidae
Belonochilus numenius (Say) 4/1
Exptochiomeria intercisa Barber 3/25, 4/4 Det by J. Herring
Nysius raphanus Howard 4/12
Ochrinnus mimulus (Stål.) 5/18
Oedancala crassimana (Fab.) 3/29
 Largidae
Largus davisii Barber 1/1, 1/26
Largus succinctus (Linn) 11/8
 Reduviidae
Empicoris armatus (Champ.) delete from 1964 list
Empicoris errabundus (Say) 1/7 to 4/1 C.
Narvesus carolinensis Stål. delete from 1964 list
Oncocephalus geniculatus Stål. 1/10 to 3/29 C.
Saica florida Barber 1/5
Stenopoda cinerea Lap. 4/22, 4/25
 Miridae
Prepops fraternus (Knight) 5/7 to 5/28 C.
Stenodemini sp. 4/24
 Nabidae
Nabis capsiformis Germar 4/24

COLEOPTERA

Carabidae (H. Dietrich, CU)

Agonum decorus (Say) 2/24*Agonum octopunctatum* Fab. 1/15

Tenebrionidae

Polopinus nitidus Lec. 3/31, 4/27, 5, 5

Orthoperidae (H. Dietrich CU)

Molamba fasciatus (Say) 2/18, 3/14*Molamba ornata* Csy. 3/14

Ptiliidae (H. S. Dybas, CNHM)

Eurygyne contorta Dybas 11/15*Eurygyne frosti* Dybas 11/10, 11/16 over 200 specimens*Eurygyne lutea* Dybas 11/15*Eurygyne steevensi* Dybas 11/15

Phengodidae (H. Dietrich CU)

Phengodes fuscipes Lec. 1/16

Cleridae (J. N. Knull, OS)

Trichodes apivorus apivorus (Germ) 3/29

Lampyridae (J. E. Lloyd, UF)

The Lampyridae are under critical study by J. E. Lloyd, which will result in many new species and varieties. *Photuris brunneipennis Florida* Barber and *Photuris potomaca* Barber have not been taken at the Archbold Biological Station and should be dropped from the 1964 list.

Lucidota luteicollis Lec. 4/11, 4/18*Photinus collustrans* Lec. Complex 4/22, 4/27*Photinus umbratus* Lec. 4/27, 5/5*Photuris lloydi* McD. 3/4, 3/12, 3/16, 4/7*Photuris pennsylvanicus* (DeG.) complex A 3/16, 5/3*Photuris pennsylvanicus* (DeG.) complex B 4/11*Photuris versicolor* (Fab.) complex 4/8, 4/17, 4/26

Corynetidae (H. Dietrich CU)

Orthopleura damicornis Fab. 5/7

Oedemeridae (H. Dietrich, CU)

Oxaxis thoracica Fab. 5/2, 5/3, 5/12*Xanthochroa* sp. 5/14

Meloidae (H. Dietrich CU)

Epicauta fabricii (Lec.) 4/25

Elateridae (J. N. Knull, OSU)

Esthesopus sp. 4/28, 5/5*Conoderus amplicollis* (Gyll.) 5/11*Conoderus arvensis* (Lec.) 5/11, 5/12, 5/17*Drasterius* sp. 3/2*Hemirhipus fascicularis* (Fab.) 4/29*Melanotus ignobilis* Melsh. 4/27*Orthostethus infuscatus* (Germ.) 5/14, 5/21*Pyrophorus atlanticus* Hyslop 5/21

Erotylidae (W. Boyle, PSU)

Ischyurus dunedinensis Blatchley 5/12, only two other specimens known, one at U. S. National Museum, one at Ohio State University

Nitidulidae (H. F. Howden, CDA)

Stelidota geminata (Say) 2/18

Lagriidae (C. T. Parsons, Manchester, Vt.)

Statira daplera Parsons 2/24, 3/5. paratypes

Bostrichiidae

Amphicerus cornutus (Pallas) 5/4

Scarabaeidae (O. L. Cartwright USNM)

Eucanthus alutaceus Cartw. 1/10

Eucanthus impressus Howden 3/25

Hybosorus illigeri (Reiche) 4/21, 5/2, 5, 8, 5.16

Phyllophaga elongata (Linell) 5/5, 5/25

Psammодиус malkini Cartw. a small series taken at light by Cartwright

Serica errans Blatchley deleted from 1964 list.

Serica frosti Dawson all previous records relate to this species.

Cerambycidae (J. N. Knull, OSU)

Eburia distincta Hald. 5/18

Ecyrus dasycercus floridanus Linn. 4/28

Enaphalodes atomarius (Drury) 4/26

Lepturges angulatus (Lec.) 5/12

Neoclytus cordifer (Klug.) 3/12

Prionus imbricornis (Linn.) 4/2, 4/16, 4/22, 5/2

Psyrassa pertenus (Csy.) 5/5

Chrysomelidae (S. W. Frost)

Colaspis brunnea (Fab.) 4/28

Cryptocephalus notatus (Fab.) var. 3/7

Curculionidae (H. Dietrich, CU)

Eugnaptus striatus Lec. 3/30, 4/22, 5/3

Piazorhinus pictus Lec. 3/3

Anthribidae

Trigonorhina sticticus (Boh.) 3/19

Cebrionidae (H. Dietrich, CU)

Selondon bicolor Fab. 5/24

Selondon mandibularis Lec. 5/6, 5/24

LEPIDOPTERA (C. P. Kimball, Sarasota, Fla.)

Sphingidae

Amphion nessus (Cramer) 2/11, 4/12, 4/25

Ampeloeca myron texana Clark 2/29, 3/30

Cressonia juglandis (A. and S.) 3/15, 4/3, 4/25

Deidamia inscriptum (Harr.) 2/14, 3/12

Herse cingulata (Fab.) 4/12, 4/20, 5/3

Pachylia ficus (Linn.) 2/24

Phlegethontius sexta (John.) 5/1, 5/2, 5/4

Pholus achemon (Drury) 4/9

Pholus labruscae (Linn.) 1/15

Citheroniidae

Citheronia sepulchralis G & R. 4/12

Arctiidae

Neoplynes eudora (Dyar) 4/10

Phalaenidae

Acronictinae

Acronicta americana Harris 3/22

Acontiinae

Acontia aprica (Hbn.) 3/9

Araeoptera vilhelmina Dyar 1/27

Hadeninae

Lacinipolia parvula (H.-S.) 4/2

Leucania latiuscula (H.-S.) 11, 11, 1/5 to 5/1 S. C.

Morrisonia confusa (Hbn.) 3/13

Amphipyrrinae

Bellura melanopyga (Grote) 2/20

Euthisanotia unio Hbn. 4/20

Phospila miseloides (Gn.) 2/16, 4/22,

Spodoptera exigua (Hbn.) 4/7

Euteliinae

Marathyssa basalis Wlk. 3/15, 3/17, 3/25, 4/3, 4/18, 4/25

Plusiinae

Trichoplusia oxygramma (Geyer) 1/24

Catocalinae

Catocala consors (A & S.) 4/27, 5/2, 5/22, 5/27

Catocala muliercula Gn. 4/30

Zale aeruginosa (Gn.) 5/2

Zale horrida Hbn. 3/3, 3/23

Erebiinae

Melipotis fasciolaris (Hbn.) 3/13, 4/18

Melipotis januaris (Gn.) 2/23

Hypeninae

Ophiuche minualis (Gn.) 2/28

Scolecocampa liburna (Geyer) 3/25, 3/30, 4/11

Rivulinae

Salia interpuncta (Grote) 4/2

Herminiinae

Bleptina hydrillalis Gn. 2/20

Hypenula cacuminalis (Wlk.) 4/10

Renia discoloralis Gn. 4/3 Det. Franclemont CU.

Renia flavipunctalis Geyer 4/13 Det Franclemont CU.

Renia nemoralis B. & McD. 3/11, 3/29

Notodontidae

Dasylophia anguina (A. & S.) 3/29, 4/8

Nadata gibbosa (A. & S.) 2/23

Lasiocampidae

Malacosoma disstria Hbn. 4/20, 4/27, 5/1

Geometridae

Abbottana clemataria (A. & S.) 3/26

Chlorochlamys indiscriminata (Wlk.) 1/5, 1/26, 2/2, 2/14, 2/22, 4/5

Epimecis hortaria (Fab.) 2/10

Hammaptera parinotata (Zell.) 3/20

Mellilla inextricata (Wlk.) 3/26

Oxydia vesulia transponens (Wlk.) 3/1

Scelolophia pannaria (Gn.) 2/16

Lygris gracilineata Gn. 4/10

Lacosomidae

Cicinnus melsheimeri (Harris) 1/7, 4/29, 4/30, 5/2, 5/4

Pyralidae

Glaphyriinae

Dicymolomia metalophota (Hamp.) 2/27

Dicymolomia pegasalis Wlk. 3/12, 3/22, 3/25

Glaphyria fulminalis (Led.) 3/29, 4/5

Pyraustinae

Loxostege neoheloides Capps 4/9, 5/23

Loxostege pollingi Capps, 3/8, papatype

Sylepta obscuralis (Led.) 3/15

Pyralinae

Omphalocera dentosa Grote 3/25

Schoenobiinae

Rupela sejuncta Hein. 3/18, 3/28, 3/29

Scirpophaga perstrialis (Hbn.) 4/28

Crambinae

Crambus multilineellus Fern. 2/23

Ommatopteryx texana Rob. 2/22

Epipaschiinae

Tetralopha melanogrammos Zell. 4/2

Phycitidae

Euzophera ostricolorella Hulst 3/23

Salebria tenebrosella Hulst 2/10, 2/11, 3/30, 4, 13

Pterophoridae

Adaina buscki B & L. 1/11, 1/21, 1/22

Platyptilia brachymorpha Meyrick 1/10

Trichoptilus parvulus B. & L. 4/17

Several other species are awaiting identification

Olethreutidae

Hedia cyanana Murtf. 3/14

Phaecasiophora inspersa Hein. 4/15

Tortricidae

Argyrotaenia tabulana Freeman 3/6, 3/18

Archips semiferanus (Wlk.) 5/1

Cosmopterygidae

Cosmopteryx minutella Beut. 3/5

Gelechiidae

Stegasta capitella (Fab.) 2/2

Aegeriidae (A. E. Bower, Me. Forest Service)

Synanthedon marica Beut. 5/1

Hyponomeutidae

Plutella porrectella (Linn.) 2/13

Hesperiidae

Erynnis zarucco (Lucas) 2/9, 3/11

Goniurus proteus (Linn.) 1/2, 1/7, 1/19, 1/24, 5/22

Polites vibex (Geyer) 4/13

Lycaenidae

Atlides halesus (Cramer) 3/12

Leptotes cassius theonus (Lucas) 1/13

Strymon cecrops (Fab.) 5/21

Strymon martialis (H.-S.) 2/3, 4/12

DIPTERA

Psychodidae (L. W. Quate, BBM)

Telmatoscopus albipunctatus (Will.) 1, 2, 3, 4

Bibionidae

Dilophus orbatus (Say) 1/9

Plecia americana Hardy 4/24, 5/1

Stratiomyidae

Sargus lucens Loew 4/20

Tabanidae (L. L. Pechuman, CU.)

Asaphomyia texensis Stone 5/20

Chrysops vittatus var. *floridanus* John. 4/21, 4/26

Chrysops near *pudicus* O. S. 4/8

Diachlorus ferrugatus (Fab.) 5/12

Microtabanus pygmaeus (Will.) 4/15

Tabanus aar Philip 5/12, 5/18

Tabanus americanus Forster 5/4

Tabanus lineola floridanus Szil 4/21

Tabanus trijunctus Wlk. 4/13, 4/26, 5/5, 5/7

Tabanus wiedemanni O. S. 5/4

Therevidae (L. L. Pechuman, CU)

Furcifera nr. *rufiventris* (Loew) 3/17, 3/29

Asilidae (C. H. Martin, OSU)

Beameromyia vulgaris Martin 5/21

Holopogon phaeonotus Loew 4/8

Bombyliidae (L. L. Pechuman, CU)

Phthiria punctipennis Wlk. 4/13

Dolichopodidae (F. C. Harmston, Greely, Colo.)

Condyllostylus chrysoprasi (Wlk.) 1/4

Diasphorus mundus (Wd.) 2/9, 3/5, 3/12, 4/26

Gymnopternus vockerothi (Rob.) 2/23

Mesorhaga caudata Vand. 4/23

Pipunculidae (D. E. Hardy, UH)

Pipunculus (Cephalosphaera) constrictus Banks 2/18

Pipunculus (Eudorylas) affinis Cres. 3/28, 4/14

Phoridae (T. Borgmeier, Jacarepagus, Brasil)

Becherina neotropica Borgm. 3/10

Platypezidae (E. L. Kessel, US)

Platypeza millironi Kessel 12/24

Conopidae (S. Camras, Chicago)

Physocephala sagittaria (Say) 3/28, 4/15, 5/4

Physoconops sylvossus (Will.) 4/26

Pyrgotidae

Sphecomyiella valida (Harris) 4/23, 4/27, 5/1, 5/2, 5/4, 5/5

Otidae (G. Steyskal, USNM)

Chaetopsis fulvifrons (Macq.) 3/17, 3/18, 3/25

Physiphora aenea (Fab.) 1/22, 1/26, a new record for Florida

Tephritidae (R. H. Foote, USNM)

Anastrepha suspensa (Loew) 4/20, 4/21, 4/22, 4/29, also reared from guava and Surinam cherry

Platystomatidae (G. Steyskal, USNM)

Rivellia variabilis Loew 2/21

Sciomyzidae (L. Knutson, USNM)

Atrichomelina pubera (Loew) 2/26

Dictya floridensis Steyskal 12/10, 1/1, 3/29

Dictya ptyarion Steyskal 4/24

Pherbellia humilis (Loew) 3/28

Sphaeroceridae (C. W. Sabrosky, USNM)

Copromyza sp. 1/12

Chamaemyzidae (J. F. McAlpine, ODA)

Leucopis (ocellaris Mall. group) 2/2, 2/19, 3/13, 4/2, 4/7 retained for study

Milichiidae (S. W. Frost)

Leptometopa latipes (Meig.) 2/16, 4/14

Neophyllomyza quadricornis Mel. 2/4

Milichiella arcuata (Loew) 4/4, 4/5, 4/15, 4/23, 4/27

Phyllomyza n. sp. (C. W. Sabrosky USNM)

Ephydriidae (W. W. Wirth, USNM)

Notiphila vittata Loew 4/15

Chloropidae (C. W. Sabrosky, USNM)

Ectecephala unicolor (Loew) 3/28

Monochaetoscinella nigricornis (Loew) 2/12

Agromyzidae (K. A. Spencer, London, Eng.)

Liriomyza munda Frick 11, 12, 1, 2, 3 also reared from mines on leaves of tomato.

Phytobia (Amauromyza) maculosa (Mall.) recorded on 1964 list; subsequently reared from mines on the leaves of *Emile coccinea*, *Baccharis halmifolia*, *Erechtites hieracifolia*, and *Garberia fructosa* 2, 3, 4

Phytobia (Calycomyza) cassiae Frost 4/28, also reared from mines on the leaves of Cassia.

Phytobia (Calycomyza) malvae Burgess recorded on 1964 list, subsequently reared from mines on the leaves of *Sida*.

Phytomyza sp. 4/23, 4/30, also reared from blotch mines on the leaves of *Ilex arenicola*.

Anthomyzidae

Mumetopia nigrimanna (Coq.) 3/4

Chyromyidae (J. F. McAlpine, ODA)

Aphaniosoma near *aldrichi* Wheeler 3/22, 4/7

Asteiidae

Sigaloessa sp.

Muscidae (H. C. Hockett, Long Island, N.Y.)

Coenosia (Neodexiopsis) floridensis (Mall.) 4/27

Coenosia (Neodexiopsis) major (Mall.) 1/4, 2/17

Tachinidae (H. J. Reinhard, TAMC)

Eucordyligaster septentrionalis (Twins.) 4/18

Euphasiopteryx brevicornis (Twins.) 4/23

Oestrophasia clausa B & B. 3/16, 4/11

Sarcophagidae (H. R. Dodge, UW.)

Ravinia anandra (Dodge) 1/20

Ravinia derelicta (Wlk.) 1/9, 2/3

CALLIPHORIDAE (M. T. James, UW)

Calliphora livida Hall 2/3

Anthomyiidae

Emmesomyia apicalis Mall. 4/9, 4/10

Pegomyia rubriceps Hockett 12, 1, 2, 3, 4 C. also reared as a leaf miner on the leaves of *Amaranthus*

HYMENOPTERA

Pergidae

Acordulecera sp. 3/4, 3/5

Xyelidae (B. D. Burks, USNM)

Xyela obscura (Strobl.) 1/23, 1/25

Tenthredinidae

Pristiphora chlorea (Norton)

Schizocerella pilicornis (Holmgren) 4/30, 5/2 also reared from blotch mines on the leaves of blackberry

Ichneumonidae

Ichneumoninae (G. H. Heinrich, Dryden, Maine)

Coelichneumon navus (Say) 4/2

Xoridinae

Xorides humeralis piceatus (Rohwer) 5/28

Tiphiidae (K. V. Krombein USNM)

Tiphia floridana Robt. 1/4, 1/31, 3/25

Tiphia intermedia Hall. 5/6

Pompilidae (H. Evans, MCZ)

Paracyphononyx funereus (Lep.) 3/18, 3/28

Phanagenia bombycina (Cress.) 4/41

Priocnessus nebulosa (Dahlb.) 4/22

Andrenidae

Augochloropsis cuprea (Smith) 3/11

LITERATURE CITED

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NOTE TO AUTHORS

Taxonomic papers that contain descriptions of new species or genera should be illustrated and must contain keys or be correlated with existing keys.