THIRD SUPPLEMENT TO INSECTS TAKEN IN LIGHT TRAPS AT THE ARCHBOLD BIOLOGICAL STATION, HIGHLANDS COUNTY, FLORIDA

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ABSTRACT

Over 400 new records of species taken in light traps at the Archbold Biological Station have been obtained since the previous lists (Frost 1964, 1966, 1969). These include 38 new records for Florida, 17 new species and many host records especially in the Lepidoptera and the Agromyzidae.

There has been a slight change in the plant association especially near where the light traps have been operated during the past 14 years. In the fall of 1970, a large vegetable garden was discontinued in this area and planted with a mixture of seed consisting of brown top and proso millet, combine peas, sorghum, and sesame. Some notable changes in insect catches in light traps resulted. Prior to 1970, the diamondback moth, Plutella xylostella (Linnaeus), a pest of Cruciferae, was trapped in very large numbers. Since 1970, only a few have been taken. Adults of the southern armyworm, Spodoptera eridania (Cramer), were common at light traps, and the larvae caused serious damage to beet leaves. Since 1970 very few of these moths were taken in light traps. Numerous butterflies, generally not strongly attracted to light, were common visitors to sesame flowers and a few were taken in light traps.

Several groups which were not previously studied, such as the Coniopterygidae, Carabidae (Brachinus), and the Agromyzidae, have been identified by specialists and are added to this list.

Methods of entry and abbreviations are the same as those used by Frost (1964). New abbreviations include: AWK, Wyatt collection, Field Museum, Chicago, Illinois; DHIF, Division of Health, Jacksonville, Florida; SI, Smithsonian Institution, Washington, D. C.; UR, University Rochester; YU, Yale University; ZMHH, Zoological Museum, Helsinki, Finland.

The majority of the material has been placed in the Frost Entomological Museum, The Pennsylvania State University; some to the insect collection, Archbold Biological Station; many in the Florida State Collection of Arthropods, Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Gainesville, Florida; and a few have been retained by C. P. Kimball.

LIST OF INSECTS

Orthoptera

Gryllus firmus Scudd. 11, 12, 1, 2, 3, 4, SC
Delete Gryllus rubens Scudd. 1964
Delete Acheta assimilis Fab. 1969
Isoperta (D. R. Smith, SI)
Kalotermitidae

Cryptopterms sp. 4/4, 5,2
Incisterms snyderi (Light) 4/8, 4/24
Rhinotermitidae
Reticulitermes flavipes (Kollar) 1/21, 9/10
Reticulitermes virginicus (Banks)

1Recently described species not appearing on previous lists by Frost (1964, 1966; 1969) are indicated by asterisk preceding the specific name.
Neuroptera
Ascalaphidae (P. A. Adams, UC)
Ameratus sp. 5/23
Ululodes floridianus Banks 5/23
Ululodes senax (Wlk.) 5/21, 6/1
Myrmelionidae (P. A. Adams, UC)
Brachynemurus longicudus Durst. 5/27
Chrysopidae (P. A. Adams UC)
Abacrysa euretha Banks 5/3, 5/24
Chrysopa intimna Mclachlan 5/21
Coniopterygidae (M. Melander, ZMHF)
*Coniopteryx diversicornis Meinander
4/5, 4/27 Paratypes
*Coniopteryx simplicior Meinander 5/3
SC, Paratypes
Coniopteryx westwoodi Fitch 8/10
Parasemidalis fuscipennis (Heuter) 4/8
Semidalis vicina (Hagen) 3/5 SC
Odonata (G. H. Beatty, State College, Pa.)
Argia fumipennis atrm Gloyd. 4/10, 4/22
Celithemis eponina Drury 4/23
Enallagma cardeniun Selys 1/22
E,trithemis simplicicollis Say 4/13
Lestes [virea] Hagen 4/29
Pachydiplax longipennis Burmi reported
1964, 96 specimens taken April, May
1970
Pscoptera (E. L. Mockford, ISNU)
Aaroniella acharysa (Banks) 4/24 rare
Caeceilius africanus Ribaga 2/18, 2/21,
2/24, 4/12
*Caecilius indicator Mock. 2/27, 4/7,
4/13, 4/19
Hempscosus chloroticus (Hagen) 1/3, 1/10
not previously taken in the field in
Florida
Lachesilla vaeioli Somm. 12/20, 1/24, 1/31
*Peripsocus alachuae Mock. 2/21, 3/13
Pseconius insulius (Champl.) 1/15
Pseconius sp. 1/10 to 2/3
Psocus leidi Aaron 1964 reported in error
as new to the U.S., only new to Florida
Trichadenotocm parvis Bord. 1/3
Thysanoptera (L. Stannard, INHS)
Hoplandrothrips sp. 2/17 rare
Homoptera
Membracidae (R. C. Froeschner, SI)
Ophiderma definita Woodruff 3/10
Smilis fasciata A.&S. 3/19
*Talmona archboldii Froeschner 4/20
new species
Talmona unicolor Fitch 3/24
Psyllidiae (L. M. Russell, USDA)
Triozia dosypri (Ashm.) 2/1, 2/13, 4/28
Aphidiae (J. O. Pepper, PSU)
Aphis coreopsis Thom. 11/22, 11/27,
12/6, 12/30
Aphis gossypii Glover 2/30, 4/13, also
taken on Bryophyllum and Bidens
Cinara watsonii Tisset 3/20
Eriosoma americana Riley 1/24
Eulachus rileyi Williams 1/1, 2/26, 12/20
Macroxyphium euphorbiaceae Thomas 12/26,
3/30
Derbidae (J. P. Kramer, SI)
Otiocerus degeerii Khy. 4/11
Hemiptera
Pentatomidae (R. C. Froeschner, SI)
Brochymena arborea (Say) 5/3
Coreidae
Zicea taeniola (Dallas) 5/12, 12/2
Lygaeidae
Peripterus paludemaris Barber 2/27, 3/4
Anthocoridae
Orius insidiosus (Say) 11/18
Orius pumilio (Champ.) 11/20, 3/4, also
on elderberry flowers
Reduviidae (R. C. Froeschner, SI)
Empicorh orthonetum (McAt. & Mall.)
4/3, 4/12
Teleorhinus floridanus Knight 4/17, 4/25,
5/5
Nabidae
Nabis alternatus Parsh. 1/4
Pleidae
Neoplaia harnedii (Drake) 1/1
Coleoptera
Carabidae (H. Dietrich, CU)
Acapalus pauperculis Dej. 2/28, 3/3
Brachinus (T. L. Erwin, SI)
*Brachinus adustipennis Erwin 3/7, 3/11,
4/4, 4/28
Brachinus alternans Dej. 1/4 to 4/29 SC
Brachinus conformis Dej. 3/25, 3/33, 4/3,
4/4, 4/5
Brachinus kansasus Lec. 3/31
Brachinus medius Harris 3/2, 3/27, 4/3,
4/4, 4/29, 4/30 SC
Brachinus neglectus Lec. 3/3, 3/29
Brachinus oxygnus Chaud. March and
April SC
Brachinus quadripennis Dej. 1/31 to 5/1
SC
Brachinus rugipennis Chaud. 11/27, 1/5
Brachinus sublivesis Chaud. 2/17, 4/29 SC
Brachinus ityrilii Laf., B. famins Fab.,
and B. pulchellus Blatch, delete from
1964 list. All material has been reworked
by T. L. Erwin, 1970.
Bradyceps tantillus (Dej.) 1/16, 3/3 SC
(det. H. Dietrich, CU).
Pastinachus sublaevis Bleau. 4/29
Tachys obliquus Case 1/6, 3/3
Dytiscidae (H. Dietrich, CU)
Anodochelus exigus (Aubé) 1/1
Bidessus pullus floridanus Fall. 1/1
Cylibster occidentalis Aubé. two Mollusca,
Larvapex fuscus Adams, attached to the elytra of this beetle (J. R. Rosewater SI).
Hydrophilidae (H. Dietrich, CU)
Chaetastridia pallida (Lec.) 12/27
Paracymus reductus (Fall.) 12/27
Staphylinidae
Creophilus villosus (Grav.) 11/18
Histeridae (R. L. Wenzel, CNHM)
Eucoilus assimilis Payk. 11/18, also taken on dead opsean
Eucoilus conformis Lec. 11/18
Eucoilus placcialis Er. 4/29
Saprinus pennsylvanicus Payk. 4/14
Melyridae (J. N. Knoll, OSU)
Anthoeus bipunctata Harrer 3/2, An introduced species, first record for Fla.
Lampyridae (J. E. Lloyd, UF)
Photinus sp 4/29
Photinus leucodialis (Mots.) group 4/30
Photinus sp. Gr. 4/31
Pyraoctena angulata (Say) 4/22
Cleridae (J. N. Knoll, OSU)
Cymatodes inornata Say 5/3
Euglenidae
Elonus basalis (Lec.) 5/23
Zonantes signatus (Hald.) 3/8
Elateridae (J. N. Knoll, OSU)
Anachusus binus (Say) 5/5
Conoderus difformis Fall. as C. falli Lec. in 1964
Conoderus perverus Brown 5/15, 5/19
Conoderus suluralis (Lec.) 3/7
Conoderus vespertinus (Fab.) 5/15, 5/19, 5/28
Dicerippidius corvus (Cand.) 5/15
Estesobus biocolor Horn 5/19
Heliodidae (H. Dietrich, CU)
Cyphon perplexus Blatch. 3/8
Nitidulidae (H. Dietrich, CU)
Cychramus adustus Er. 3/4
Eroylidae (H. Dietrich)
Megalocaeae fasciata (Fab.) 4/13
Lathridiidae (H. Dietrich)
Melonothalma distinguenda Com. 3/3
Cryptophasiidae (H. Dietrich)
Cryptophasius sp. 3/2
Tenebrionidae (H. Dietrich, CU)
Epiragodes tomentosus (Lec.) 3/27
Salpingidae
Mycteris scaber Hald. One specimen taken by J. G. Needham
Melandryidae (H. Dietrich)
Anobiidae (H. Dietrich, CU)
Caenocara sp 3/13
Erbobius granulatus Lec. 3/13, 11/7
Xyletinus mucorius Lec. 4/3/4
Scarabaeidae (O. L. Cartwright, SI)
Onthophagus tuberculifrons Harold 4/21
Cerambycidae (J. N. Knoll, OSU)
Euryptera lateralis (Oliv.) 4/29
Stenodentes dasytoma (Say) 2/23
Chrysomelidae (H. Dietrich, CU)
Altica litigata Fall 2/95
Bassares clathratus (Mes.) 3/12, 4/5
Blepharida dorothea Mignot 12/31 to 4/28, also feeding on sumac and Brazilian pepper.
Blepharida rhais Forst. delete from 1966 list.
Colaspis favosa Say 12/7
Cryptocyclophalus notatus Fab. 3/7, 4/6
Gribitis equestris (Oliv.) 4/17
Lactia tibialis (Oliv.) 12/17
Oedionychus flavida Horn 2/20
Oedionychus sp. 1/10
Chalepus sp (Oliv.) on 1964 list, later reared as leaf miner on Desmodium.
Mylabridae (J. M. Kingsolver, SI)
Megacerus discoideus (Say) One specimen in SI.
Curculionidae
Derelomus basalis Lec. on 1964 list, later found feeding abundantly on the flowers of paw paw and elderberry.
Scolytidae (S. L. Wood BYU)
Cnesus stricticollis (Lec.) 4/5, 4/8
Hylastes ruber (Eich) 3/6, 3/24, 4/7
Xyleborus pini Eichof. 1/30
Rosstriidae (S. L. Wood, RVII)
Prostophagus punctatus (Say) 3/3, 3/6, 3/12
Strepsiaptera (T. J. Spilman, SI)
Elenechus fucubeli (Pierce) 11/6, 12/8, 2/27, 3/4, 3/8, 4/10
Triozocera texana (Pierce) 3/8
Lepidoptera (C. P. Kimball, with additions from Lepidoptera of Florida 1965).
Arctiidae
Apantesis doris (Boisdiv.) 2/3
Crambidia uniformis Dyar 2/20
Cycnia inopinatus (H. Edw.) 1/25, 2/16
Estigmene conraesi (Wlk.) 3/25
Estigmene prima (Slosson) 1/10, 2/3, 3/3
Uletheis ornatrix Linn. Jan. YU
Noctuidae
Acontiniæ
Cobubatha quadrifera (Zell.) March
Eublemma cinnamomea (H-S.) Dec., Jan., YU
Frupa fasciata (Grote) April YU, June
AKW, July Klots AMNH
Heloconta apicilla (Grote) 4/3
Sigela penumbra Hulst 1/18
Spraguea dama (Gn.) Sept., AMNH
Tarachidia ernestides (Gn.) 1/31, 2/12
Heliothiniæ
Sehina gloriosa (Stecker) Sept., Oct., YU
Sehina marginata (Haw.) 1/23, 1/27
Sehina nubila (Stecker) Sept., YU
Sehina pandina (Drury) 11/23
Sehina sordida Smith Sept., Pease YU
Hadeniæ
Polia carbonifera Hamp. 2/16, 2/22, 2/24
Cuculliinæ
Psaphida resuentus viridescent (Wlk.) 3/12
Amphiyriniæ
Arzama densa Wlk. 3/23, June AKW
Balsa tabucula (Grote) 3/29, most
northern record for Florida
Diplocarya patina (Harvey) Feb.
Magusa orbifera (Wlk.) 3/1, 4/1
Phosphila mistellidæ (Gn.) April YU
Phosphila turbulenta Hbn. 1/30
Plusiiniæ
Pseudophusia inclinans (Wlk.) 2/22
Catocaliæ
Caenurgina crassiusculus Haw. 1/30
Caenurgina erichthas Cramer 4/28
Catocala amica (Hbn.) 5/14
Catocala gracilis Edw. 5/1
Catocala ilia (Cramer) 4/21
Catocala similis Edw. 4/24, 4/28
Cutio albopunctella Wlk. June AKW
Zale flectilis (Gn.) Sept. Nov. YU
Hyponiniæ
Gabara distema (Grote) April, May YU
Hemeroplanis scopolaepec (Haw.) 4/28
Metalectra quadrisignata (Wlk.) Sept.
YU
Ophiuche abjiralis (Wlk.) Dec. YU
Ophiuche degasalis (Wlk.) 11/24
Phyphorus callitrichoides Grote Feb.
March.
Raparna melanospila (Gn.) 4/4
Rivulinae
Prosoparia perfusaria Grote April CU
Rivula pusilla Moesc. April CU
Hermininiæ
Epizeuxis diminuendis B. & M. 4/3
Renia larvalis Grote 1/23
Renia sobrialis (Wlk.) 1/23
Erebiniæ on 1964 list, several species listed under Catocaliæ
Anomis illita Gn. Dec. YU
Coenipteta bititrix (Hbn.) 1/24
Ephyrodites cocata Gn. Oct. YU
Gonodonta unica Néum. 3/24, 12/24 not
previously recorded from central or
northern Florida.
Hypocalla andremona (Cramer) 5/10 also
reared from leaves of persimmon
Massala obtectens (Wlk.) May YU
Noropsis heraglyphica (Cramer) Sept.
YU
Panopoda carlil hosta combinata (Wlk.)
3/30, 4/8, 4/9
Panopoda carneicosta unicolor (Wlk.)
3/23
Syndoelia grandirena (Haw.) 3/21
Notodontiæ
Cerura setiscripta Wlk. Aug YU
Datana integerrima G. & R. Sept. YU
Datana major G. & R. 4/10
Datana modesta Beut. Aug. Sept. YU
Fentonia nutius (Cramer) Jan. March
YU
Heterocampa manitei Dbl. Sept. YU
Lipariidæ
Olene atomaria parallela (G.&R.)
Hemerocampa plagiata (Wlk.) Jan. YU
Lasiocampiæ
Tolype minita Dyar 11, 12, 1, 2, 3, VC
Limacodidæ
Limacodes rectilinea latomia Harvey
1/22, 4/23
Monoleuca ereciflora Dyar June
AKW
Monoleuca semifusca (Wlk.) July YU
Sibine stimulea (Clem.) 4/5, June YU
Slossonella tenebrosa Dyar 4/5
Geometridæ
Ennominiæ
Anacampstodes humaria (Gn.) Aug. YU
Apicia fundaria Gn. March, Sept. YU
Epimecis detexta (Wlk.) 6/24
Epiptasia morjosa Hulst 1/20, March
CU
Euchthæna astylusaria (Wlk.) March YU
Itame gausaparia (Grote) 2/24, 3/8, 4/7,
4/28
Itame inextricata (Wlk.) 4/10, 4/22, 4/24,
4/28
Itame latiferrugata brunnea (Pack.)
3/19
Lychnosia intermedia (Wlk.) 4/30, also
4/25 Needham CU
Nepheleuca floridata (Grote) 12/25
Pseudohermania umbrosaria (Hbn.) on
1964 list later reared from the leaves of turkey oak.

_Semiota hisa aequiferaria_ (Wlk.) Dec. AMNH
_Semiota gnephorosaria_ (Gn.) June AKW
_Semiota punctolineata_ (Pack.) June AKW, Aug. YU
_Sphaemodes vulneraria_ (Hubn.) Sept. 2 Pease YU

Geometrinae
_Chlororhamys pautaria_ (Mosch.) Dec. YU
_Nemoria biffala_ (Wlk.) 1/11 to 4/1
* _Nemoria outana_ Ferguson 1/5, 2/1, 4/7
_Racemosulc abdominaria_ B. & McD. delete from 1964 list.

Larentiinae
_Camptolina stellata_ (Gn.) 4/30
_Eupithecia jenjumata_ McD. 2/21, 3/15, 3/19
_Lygris graecina_ (Gn.) 1/29, 4/19

Sterrhinae
_Cosymbia myrtaria ignotaria_ (Wlk.) 3/19
_Metasplis helisaria_ (Gn.) 1/90
_Metasplis ossulaola_ (Geyer) June AKW, July, Dec. CU
_Metasplis peralbata_ Pack. June AKW
_Scopula inodetaria_ (Wlk.) April CU
_Scopula oblididata_ (Hulst) 1/17, 1/22
_Scopula plantagenaria_ (Hulst) June AKW

Sternha retractoria_ (Wlk.) July AMNH

Pyralidae
_Glyphyra lineaticercus_ (Gn.) 4/9

Dicymolus julianus_ (Wlk.) 3/7
_Glyphrya basiflavus_ (B. & McD.) 3/31

Pyraustinae
_Condylorrhiza vestigialis tristalis_ Wlk. 12/22, first record for Florida
_Desmia funeralis_ (Hbn.) 2/20, 4/23, 4/24
_Diastictis argyralis_ Hbn. 3/2
_Diastictis holoqua_ Munroe 2/25
_Diathrausta hortiquina_ Hulst Munroe April Needham CU, July CHC Sept. Pease YU

_Eurrhyporodes lygdamis_ Druce 4/1
_Geshna cancellis_ (Quaintance) 2/26, Dec. YU
_Geshna primordialis_ Dyar 3/4
_Hedylepta indicata_ (Fab.) April YU
_Loxostege helvialis_ Wlk. 4/5, 4/6, 5/5, 5/5, 5/5
* _Loxostege neohelvialis_ Cappo 4/5, 4/6, 4/9, 18, 5/5, 5/5, 5/23 paratypes
_Maraesia trapezalis_ (Gn.) 4/21
_Pachyzelana theseusalis_ (Wlk.) 3/26, 4/30, 5/3, 5/4, also reared as leaf folder on royal and cinnamon fern

_Palpita flegia_ (Cramer) 1/6
_Pterygisus stenialis_ (Gn.) 3/31
_Pileia periusalis_ (Wlk.) Jan. Dec. YU
_Pilocrois ramentalis_ Lederer April YU
_Ostrinia penalis_ (Grote) 3/14
_Trachistogyna palindialis_ (Gn.) 3/4
_Udea rubigalis_ (Gn.) 5/4
_Sylepta silicuaria_ (Gn.) Sept. YU
_Tholoria pyraustalis_ Dyar Dec. 19-25 Pease YU
_Nymphulae_ (Gn.)
_Chrysonektor kimbali Lange Sept. YU
_Chrysonektor medea_ (Grote) March, April, Nov., Dec. CU
* _Undulambia polyxemia_ Capps 12/12

Scopariinae
_Eudonia strigalis_ (Dyar) 2/16

Pyralinae
_Omphalocera munroei_ Martin 4/21
_Omphalocera dentosa_ Grote Aug. Sept. YU

Chrysauginae
_Tetraschistis leucogramma_ Hamp. 5/3
_Tosale oviplagalis_ (Wlk.) 3/28

Schoeobiinae
_Patria flavifascialis_ B. & McD. Nov. Dec. CU

Chrysauginae
_Patria anthracalis_ (Gn.) June AKW
_Rupela segrega_ (Hein.) 5/21, 5/23, 5/24
_Rupela tinctella_ (Wlk.) April, Sept. YU
_Schoenobius sordidellus_ (Zinck.) Jan.
_Scirpophaga repugnalis_ (Wlk.) Oct. YU

Ancyropinae
_Eugrotea incertella_ (Zinck.) June AKW
_Pronaperyx nebulifera_ Stephens May, Evans

Crambinae
_Crambus triscras_ Dyar 4/6 Pease, YU
_Diatraea evanescentes_ Dyar Aug. YU
_Eoreuma densella_ (Zell.) 3/6, 3/21
_Platus acerata_ Dyar, March YU

Epipaschiinae
_Episussia superialis_ Clem. Sept.
_Tetralophia stossoni_ (Hulst) March, Dec. YU

Galleriinae
_Galleria mellonella_ (Linn.) March, April, Aug. CPK

Phycitidae
_Acrobasis vaccini_ Riley Feb. Pease YU
_Anerastia ella_ (Hulst) 3/2, 4/21
_Homoepesia electella_ (Hulst) 1/29, 2/5
_Honora mellinella_ Grote 1/4

Moodna ostriellula_ (Clem.) on 1964 list, subsequently reared from acorns
Ollia parvella Dyar 3/6 Needham CU
Pulatka nymphacea (Hulst) 4/10
Salebria nebuliferella Rag. 2/25
Sarasota plumigerella Hulst 3/21, 4/2
Needham CU
Pterophoridae
Platystilia edwardsii Fish Dec. YU
Platystilia pusillidactyla (Wlk.) Dec. YU
Pselephorus belfragei (Fish) April, Jan. Dec. YU
Oideaematophorus lacteodactylus (Chamb.) March, Dec. YU
Trichoptilus deflectalis (Wlk.) May YU
Olethreutidae
Olethreutinae
Endothenia daeckeana Kearf. Dec. Pease YU
Enisimus argutans (Clem.) 2/25
Lobesia liriodendron (Kearf.) 4/10
Olethreutes osmundana Fern. 4/23, also reared as leaf roller on royal and cinnamon fern.
Eucosmidae
Acanthoscelis divisa (Wlk.) 12/28, 3/14, 3/24, 4/9
Eucosma vandana Kearf. 3/26 YU
Strepsicrates smithiana indentana (Dyar) on 1964 list subsequently reared as a leaf roller from guava.
Lasiopteryginae
Gymnandrosoma desotonum Heinz. June AKW
Gymnandrosoma punctidiscanum Dyar 2/17, 4/14
Laspeyresia sp. 1 Kimball near galaxiasulicata (Riley) 2/7, 2/16, 2/19, 3/4
Laspeyresia sp. 2 Kimball 2/4, 3/28
Melicosus latiferrearbus (Walsh.) June AKW
Satronia tantilla Heinz. 12/28
Tortricidae
Archipinae
Archips georgianus (Wlk.) 4/4
Archips obsoletana Wlk. 1/23
Argyrotaenia ivana (Fern.) 3/3, 4/1
Sparganosthinae
Coelostathma discopunctata Clem. 4/8
Platynota rostrana (Wlk.) on 1964 list, later reared as leaf roller on Quercus inovis
Platynota stultana (Walsh.) 2/18, 3/6, 5/7
Sparganothis caryae (Rob.) July AMNH
Sparganothis distincta (Walsh.) 3/7, 3/19, 4/9
Sparganothis karacana (Kearf.) 5/21, Needham CU
Sparganothis taracana Kearf. Dec. CU
Phaloniidae
Carolella bimaculana (Rob.) 3/4 CU
Carolella erigeronana (Riley) March YU, July AMNH
Phalonia angulatana (Rob.) March CU
Phalonia subovivacea (Walsch.) March CU
Cosmopterygidae
Cosmopteryx abditana Hodges 3/21, 4/4, RWH CU
Cosmopteryx damosa Hodges 3/27 RWH
Cosmopteryx delicatella (Wlesm.) 3/27 RWH
Cosmopteryx ebiola Hodges 3/27, 4/7 RWH
Cosmopteryx scirpica Holmes 3/27 RWH
Eteobata sexnotata (Chamb.) 3/4 March, April RWH
Melanocnitis lineigera Hodges March RWH
Tricolonella determinatella (Zell.) 1/18
Walshiidae
Perimeche falcata Braun 3/29 RWH
Momphidae
Homaleura heptathalama Busck March, also reared from palmetto
Homaleura sabalella (Chamb.) 2/3, 3/9/3/10 also reared from palmetto
Mompha bottimeri Busck 12/28, 1/21, 3/31
Gelechiidae
Aristotellea rubidella (Clem.) March CU
Chionodes maculimarginella (Clem.) 4/2
Needham CU
Composolechia coverdalella (Kearf.) 5/8
Dichomeris lineella Illeg. 2/7
Exotelea pinifoliella Chamb. 1/22, 2/3, 2/12, 5/2
Fascista quinella (Zell.) 12/10, 12/24
Glyphidocera floridanella Busck March CU
Trichotaphe trinotella Busck 1/1, Pease YU
Oecophoridae
Psilocusis cravae Clarke 3/30, 3/31
Psilocusis quercicella Clem. 2/4
Psilocusis reflexella Clem. 3/7
Inga crenacea (Zell.) 4/14, 4/17
Stenomidae
Setiostoma xanthobasis Zell. 3/10
Glyphipterygidae
Glyphipteryx sp. 1/10, 4/24, 4/29
Aegeridae
Synanthedon acerni Clem. 3/21
Synanthedon sappgaenformis floridensis (Grote) 1/10, 2/26 also reared from woody galls on scrub oak produced by Callirhytes batatoides Wshm.

Grazaliiidae

Lithocolletis quercuvecollae Chamb. 11/17, 11/23, 11/28, a blotch miner on Xolisma and Quercus

Acrolophidae

Acrolophus arcuellus (Clem.) Aug., Sept. YU

Acrolophus piper (Dyar) July 15 to 31, Klots AMNH

Acrolophus propinquus (Walsh.) 4/2, 4/4, 4/5, 5/11, 5/12

Acrolophus texanellus (Chamb.) 4/29

Nepticulidae

Ectoedemia rubrata (Zell.) 4/9, 4/24

Prodoxidae

Prodoxus quinquiepunctella (Chamb.) March, April CU

Hesperiidae (F. Fee, PSU)

Atalopedes capensis (Boisdtv.) 1/31, 3/7

Erynnis brizo (B. & L.) 4/17

Erynnis juvelalis Fab. 3/7

Euphlyes vestris (Boisdtv.) delete from 1964 list

Hylephila phyleus (Drury) 2/12

Lerema accius H. & S. 1/27, 2/9

Pellies thamistoleoe (Latr.) 3/24, a common species but taken only once.

Thorybes pylades (Scudd.) 3/11

Lycaenidae (F. Fee, PSU)

Euristrum flavoniu A-S, 5/5

Panthinidae m-album Bd. 2/3, 2/23, 4/12

Strymon martialis (H-S.) delete from 1964 list.

Diptera

Tipulidae (C. F. Alexander)

Nephotoma ferruginea suturalis (Loew) 4/15

Culicidae (J. W. Knight, DHJF)

Culex restuans Theob. 2/4

Cecidomyiidae (R. T. Gagné, SI)

Asphondyla sp reported 1964, also reared from galls on Ambrosia artemesifolia

Stratiomyiidae (H. V. Weems, FDA)

Sargus fasciatus (Fab.) 4/4

Sargus lucens Loew delete from 1969 list

Tabanidae (I. L. Pechman, CFI)

Chrysops hinei Daecke 11/10

Chysope pubescens OS. 4/5, 4/8

Empididae (D. D. Wilder, PSU)

*Synceles frosti Wilder 2/8, 2/9, 3/10

Synceles simplex Wlk. 2/8, 2/11, 3/10

Aaialidae (H. V. Weems, FDA)

Efferia interrupta (Macq.) 4/9

Bombyliidae (H. V. Weems, FDA)

Poecilognathus punctipennis Wlk. 4/22

Syraphidae (H. V. Weems, FDA)

Baccha clavata (Fab.) 12/14

Conopidae (H. V. Weems, FDA)

Physcocephala tibialis (Say) 1/1

Pyrgotidae

Pyrgota filiosa Loew delete from 1964 list

Specomyella maculipennis (Macq.) 2/28 to 3/24

Tephritidae (C. C. Steyskal, SI)

Acidugona melanura (Loew) 4/16

Dioxya piciola (Bigot) recorded 1964, also reared from seeds Bidens pilosa

*Myoleja rhino Steyskal 2/24, 3/9, 3/18, 4/2 paratypes

Lauxaniidae (C. W. Sabrosky, SI)

Pocicolinetia valida (Wlk.) 2/8, 2/16, 3/15, 3/28, 4/7 C

Sciomyzidae (C. W. Sabrosky, SI)

Phebella grieveeni (Msnig) 3/28

Micropezidae

Taeapijera trivittata Macq 3/27, 4/13, 4/29, 5/8 C

Agromyzidae Since the papers by Frost 1964, 1966, and 1969, Dr. Kenneth A. Spencer has studied the Florida Agromyzidae in considerable detail making some changes necessary: 4 species, Liriomyza eupatori (Kalb.), Liriomyza sorosis (Will.), Melanagromyzya mallochi (Hend.), and Calycomyza verbenae Herings should be dropped from previous lists.

Amauromyza maculosa (Mall.) listed under Phytobia 1964, has subsequently been reared from blotch mines in the leaves of Baccharis, Emile, Erechtites, and Gaberia. Several larvae feed within a single mine.

Calycomyzamyambrosiae Frick 3/1, making small blotch mines on Ambrosia artemesifolia.

*Calycomyzabrotulariora Spencer 3/8, making linear mines on Crotalaria sp.

Calycomyzayuenda VdW. 4/24, making blotch mines on Bidens pilosa

Calycomyzalantanae Frick 3/5, 5/30, 12/30 blotch mines on Lantana camara

Calycomyzamalvae (Burgess) 3/6 linear mines on Urena lobata

Calycomyzamajuscula Frick 2/15, first record for Florida

*Calycomyzasidiasp Spencer 4/3, 4/20

*Cerodonthafrostdi Spencer Holotype 11/28

Hymenoptera
Tenthredinidae Metallus rhwers (MacG.) 2/6, 2/8, 3/1, 3/2 also reared from blotch mines on blackberry leaves. Schizocerella pilicornis (Holmg.) reared from blotch mines on leaves of purslane, not blackberry as stated 1969. Braconidae Agathis crassicornis (Mues.) 3/16, 3/25 Agathis spiracularis (Mues.) 1/4 Agathis texanus (Cress.) parasite of leaf crumpler Pachyzancla thesausalis 11, 17, 12/5.Vespidae Vespula maculifrons (Buy.) 11/7, 11/24 C Scoliidae (K. V. Krombein, SI Campsomeris plumipes fossulana (Fab.) 1/28, 1/31, 2/1, 2/24, 3/10, 3/23 Pseudoscorpionida (W. B. Muchmore UR) Lamprochernes 3/16, an undescribed species. Parachelifera superbus Hoff. 3/4 Ocalachelifera cribatus Chamb. Parachernes latimanus Banks 1/30, 3/2

Literature Cited

Erwin, T. L. 1970. A classification of the bombardier beetles and a taxonomic revision of the North and Middle American species (Carabidae; Brachnididae). Quaest. Ent. 6(1):5-219.

ANNUAL MEETING

The Florida Entomological Society annual meeting will convene in Gainesville, Florida, at 1:30 PM, Wednesday, September 3, and will adjourn at noon, Friday, September 5. The Gainesville Hilton is the meeting site, and a barbecue has been planned in lieu of the regular banquet. Thebull session is scheduled Wednesday evening.