

TOTAL INSECT BIO-INVENTORY PROJECT OF THE MOBILE TENSAW DELTA

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Introduction

In 1995 Mobile Bay became a part of the country's National Estuary Programs (NEP). Included in the NEP study area is the Bay proper and a large section of the Mobile / Tensaw Delta. The Mobile / Tensaw Delta (MTD), the nation's second largest river delta, is the 60-km long, 15-km wide stretch of wetland from the head of Mobile Bay, north to the confluence of the Alabama and Tombigbee Rivers. Much of this 900-km² area remains in a natural state, a remarkable fact given that the Southeast has very little land under federal or state protection. The MTD consists largely of cypress-gum swamps and bottomland hardwood forests, interlaced with streams, canals, bayous and marshes.

Two crucial facts make the delta an area of keen biological interest. First, it is one of the largest, intact, wetland ecosystems in the United States. Second, compared to other large river ecosystems, the biota of the MTD is exceptionally poorly known. Given that biological surveys are the cornerstone on which conservation priorities are established and management practices implemented, a detailed inventory of the MTD's biota is mandatory. Using seed money from the Alabama Center for Estuarian Studies (ACES), the Total Insect Bio-inventory Project (TIBP) of the Mobile/Tensaw Delta was established in the spring of 2000. Though neglected in many previous biological inventories, the importance of hyper-diverse groups, such as insects the arthropods, is now being recognized. Insects were selected as the target group because i) they are major contributors to ecosystem processes; ii) they constitute the bulk of metazoan diversity; iii) they respond quickly to environmental changes; and iv) they are ubiquitous and easily collected.

The TIBP will include the surveying, sorting, cataloguing, quantifying and mapping of entities such as genes, chromosomal inversions, demes, species, and communities. TIBP is intended to be a long-term program (20 years duration) and involve expertise from a variety of countries. The long term goals of the TIBP are to:

1. produce a complete bioinventory of the insect fauna in the Mobile/Tensaw Delta
2. spatially reference each collection to detect geo-spatial patterns of biodiversity
3. provide habitat information
4. identify threatened and endangered species
5. locate 'hot spots' of biodiversity
6. determine the degree of endemism
7. document genetic diversity and spatial-temporal dynamics of this diversity for select species
8. identify disease vectors (e.g., mosquitoes), their specific habitats, and population sizes
9. identify insect bioindicators of water quality
10. provide a reference collection of Delta insects

Provide below is a current list of species thus far identified from the Delta

Current list of species

Order	Family	Species (or LTU)
Homoptera	Achilidae	Catonia carolina
Odonata	Aeshidae	Coryphaeschna ingens
Odonata	Aeshidae	Nasiaeschna pentacantha
Diptera	Anthomyiidae	Anthomyia oculifera
Diptera	Anthomyiidae	Emmesomyia socialis
Diptera	Anthomyiidae	Eustalomyia vittipes
Diptera	Anthomyiidae	Hylemya alcatheae
Diptera	Anthomyiidae	Pegoplata juvenalis
Lepidoptera	Arctiidae	Cosmosoma myrodora
Diptera	Asilidae	Efferia tabescens
Diptera	Asilidae	Leptopteromyia americana
Diptera	Asilidae	Ommatius gemma
Diptera	Asilidae	Psilonyx annulatus
Hemiptera	Belostomatidae	Belostoma flumineum
Hemiptera	Belostomatidae	Belostoma lutarium
Diptera	Bibionidae	Dilophus sayi
Diptera	Bibionidae	Plecia nearctica
Blattaria	Blattellidae	Ischnoptera bilunata
Psocoptera	Caeciliidae	Xanthocaecilius sommermanae
Diptera	Calliphoridae	Melanomyia serva
Coleoptera	Cerambycidae	Curius dentatus
Coleoptera	Cerambycidae	Elaphidion mucronatum
Coleoptera	Cerambycidae	Leptostylopsis planidorsus
Coleoptera	Cerambycidae	Megacyllene decora
Coleoptera	Cerambycidae	Methia necydalea
Coleoptera	Cerambycidae	Methia pusilla
Coleoptera	Cerambycidae	Neoclytus acuminatus
Coleoptera	Cerambycidae	Prionus imbricornis
Coleoptera	Cerambycidae	Styloleptus biustus
Diptera	Ceratopogonidae	Alluaudomyia bella
Diptera	Ceratopogonidae	Atrichopogon fuscus
Diptera	Ceratopogonidae	Atrichopogon minutus
Diptera	Ceratopogonidae	Bezzia cf albidorsata
Diptera	Ceratopogonidae	Bezzia glabra
Diptera	Ceratopogonidae	Bezzia nobilis
Diptera	Ceratopogonidae	Bezzia solstitialis
Diptera	Ceratopogonidae	Clinohalea bimaculata
Diptera	Ceratopogonidae	Dasyhelea cincta
Diptera	Ceratopogonidae	Dasyhelea grisea
Diptera	Ceratopogonidae	Dasyhelea leptobranchia
Diptera	Ceratopogonidae	Dasyhelea mutabilis
Diptera	Ceratopogonidae	Downshelea stonei
Diptera	Ceratopogonidae	Echinohelea lanei
Diptera	Ceratopogonidae	Forcipomyia cf bystraki
Diptera	Ceratopogonidae	Forcipomyia colemani

Diptera	Ceratopogonidae	Forcipomyia fairfaxensis
Diptera	Ceratopogonidae	Forcipomyia glauca
Diptera	Ceratopogonidae	Forcipomyia leei
Diptera	Ceratopogonidae	Forcipomyia mcateei
Diptera	Ceratopogonidae	Forcipomyia n sp
Diptera	Ceratopogonidae	Forcipomyia pluvialis
Diptera	Ceratopogonidae	Forcipomyia tenuichela
Diptera	Ceratopogonidae	Monohelea floridensis
Diptera	Ceratopogonidae	Palpomyia plebja
Diptera	Ceratopogonidae	Phaenobezzia sabroskyi
Diptera	Ceratopogonidae	Stilobezzia antennalis
Diptera	Ceratopogonidae	Stilobezzia bulla
Diptera	Ceratopogonidae	Stilobezzia pallidiventris
Diptera	Ceratopogonidae	Stilobezzia stonoi
Diptera	Ceratopogonidae	Stilobezzia sybleae
Homoptera	Cercopidae	Prosapia bicincta
Diptera	Chaoboridae	Chaoborus punctipennis
Diptera	Chironomidae	Ablabesmyia cf peleensis
Diptera	Chironomidae	Ablabesmyia rhamphe
Diptera	Chironomidae	Antillocladius pluspilalus
Diptera	Chironomidae	Apedilum elachistum
Diptera	Chironomidae	Chironomus longipes
Diptera	Chironomidae	Demeijerea cf obrepta
Diptera	Chironomidae	Dicrotendipes lucifer
Diptera	Chironomidae	Dicrotendipes lucifer complex
Diptera	Chironomidae	Dicrotendipes modestus
Diptera	Chironomidae	Endochironomus nigricans
Diptera	Chironomidae	Goeldichironomus holoprasinus
Diptera	Chironomidae	Labrundinia pilosella
Diptera	Chironomidae	Larsia cf decolorata
Diptera	Chironomidae	Larsia sp AL-1
Diptera	Chironomidae	Limnophyes minimus
Diptera	Chironomidae	Lipurometriocnemus vixlobatus
Diptera	Chironomidae	Parachironomus carinatus
Diptera	Chironomidae	Parachironomus directus
Diptera	Chironomidae	Parachironomus sp
Diptera	Chironomidae	Parachironomus sublettei
Diptera	Chironomidae	Paraphaenocladus exagitans
Diptera	Chironomidae	Paratanytarsus dubius
Diptera	Chironomidae	Paratanytarsus quadratus
Diptera	Chironomidae	Paratanytarsus sp 3
Diptera	Chironomidae	Phaenopsectra flavipes
Diptera	Chironomidae	Polypedilum beckae
Diptera	Chironomidae	Polypedilum digitifer
Diptera	Chironomidae	Polypedilum halterale
Diptera	Chironomidae	Polypedilum illinoense
Diptera	Chironomidae	Polypedilum laetum
Diptera	Chironomidae	Polypedilum parvum
Diptera	Chironomidae	Polypedilum simulans
Diptera	Chironomidae	Polypedilum trigonus
Diptera	Chironomidae	Procladius sublettei

Diptera	Chironomidae	<i>Pseudorthocladius cf macrovirgatus</i>
Diptera	Chironomidae	<i>Pseudosmittia</i> sp 1
Diptera	Chironomidae	<i>Pseudosmittia</i> sp 2
Diptera	Chironomidae	<i>Stenochironomus macateei</i>
Diptera	Chironomidae	<i>Tanypus carinatus</i>
Diptera	Chironomidae	<i>Tanypus neopunctipennis</i>
Diptera	Chironomidae	<i>Tanytarsus cf allicis</i>
Diptera	Chironomidae	<i>Tanytarsus cf mendax</i>
Diptera	Chironomidae	<i>Tanytarsus limneticus</i>
Diptera	Chironomidae	<i>Tanytarsus</i> sp 16
Diptera	Chironomidae	<i>Zavreliella marmorata</i>
Coleoptera	Chrysomelidae	<i>Disonycha pensylvanica</i>
Neuroptera	Chrysopidae	<i>Ceraeochrysa lineaticornis</i>
Neuroptera	Chrysopidae	<i>Leucochrysa insularis</i>
Neuroptera	Chrysopidae	<i>Leucochrysa pavidata</i>
Neuroptera	Chrysopidae	<i>Nodita pavidata</i>
Homoptera	Cicadellidae	<i>Graphocephala coccinea</i>
Homoptera	Cicadellidae	<i>Graphocephala versuta</i>
Homoptera	Cicadellidae	<i>Jikrada olitorius</i>
Homoptera	Cixiidae	<i>Bothriocera maculata</i>
Homoptera	Cixiidae	<i>Pintalia delicata</i>
Homoptera	Cixiidae	<i>Pintalia vibex</i>
Coleoptera	Cocconellidae	<i>Psyllobora vigintimaculata</i>
Odonata	Coenagrionidae	<i>Enallagma divagans</i>
Odonata	Coenagrionidae	<i>Enallagma dubium</i>
Odonata	Coenagrionidae	<i>Enallagma signatum</i>
Odonata	Coenagrionidae	<i>Enallagma vesperum</i>
Odonata	Coenagrionidae	<i>Ischnura hasta</i>
Odonata	Coenagrionidae	<i>Ischnura kellicotti</i>
Odonata	Coenagrionidae	<i>Ischnura pollutum</i>
Odonata	Coenagrionidae	<i>Ischnura posita</i>
Odonata	Coenagrionidae	<i>Ischnura prognata</i>
Odonata	Coenagrionidae	<i>Ischnura ramburii</i>
Diptera	Corethrellidae	<i>Corethrella wirthi</i>
Neuroptera	Corydalidae	<i>Chauliodes rastricornis</i>
Diptera	Culicidae	<i>Aedes cinereus</i>
Diptera	Culicidae	<i>Aedes vexans</i>
Diptera	Culicidae	<i>Anopheles crucians</i> complex
Diptera	Culicidae	<i>Culex nigripalpus</i>
Diptera	Culicidae	<i>Culex territans</i>
Diptera	Culicidae	<i>Culiseta melanura</i>
Diptera	Culicidae	<i>Ochlerotatus infirmatus</i>
Diptera	Culicidae	<i>Ochlerotatus sollicitans</i>
Coleoptera	Curculionidae	<i>Apteromechus serratus</i>
Psocoptera	Dasydemellidae	<i>Teliapsocus conterminus</i>
Homoptera	Delphacidae	<i>Liburniella ornata</i>
Diptera	Dolichopodidae	<i>Amblypsilopus dorsalis</i>
Diptera	Dolichopodidae	<i>Campsicnemus hirtipes</i>
Diptera	Dolichopodidae	<i>Chrysotus annulatus</i>
Diptera	Dolichopodidae	<i>Chrysotus barbatus</i>
Diptera	Dolichopodidae	<i>Chrysotus crosbyi</i>

Diptera	Dolichopodidae	Chrysotus furcatus
Diptera	Dolichopodidae	Chrysotus n sp
Diptera	Dolichopodidae	Chrysotus n sp A
Diptera	Dolichopodidae	Chrysotus picticornis
Diptera	Dolichopodidae	Chrysotus sp 1
Diptera	Dolichopodidae	Chrysotus sp 2
Diptera	Dolichopodidae	Condylostylus banksi
Diptera	Dolichopodidae	Condylostylus leonardi
Diptera	Dolichopodidae	Condylostylus viridicoxa
Diptera	Dolichopodidae	Diaphorus mundus
Diptera	Dolichopodidae	Dolichopus alacer
Diptera	Dolichopodidae	Gymnopternus brunneifacies
Diptera	Dolichopodidae	Gymnopternus currani
Diptera	Dolichopodidae	Gymnopternus lunifer
Diptera	Dolichopodidae	Gymnopternus n sp
Diptera	Dolichopodidae	Gymnopternus spectabilis
Diptera	Dolichopodidae	Gymnopternus tibialis
Diptera	Dolichopodidae	Gymnopternus vockerothi
Diptera	Dolichopodidae	Hercostomus vockerothi
Diptera	Dolichopodidae	Medetera aberrans
Diptera	Dolichopodidae	Medetera veles
Diptera	Dolichopodidae	Nematoproctus metallicus
Diptera	Dolichopodidae	Nematoproctus n sp
Diptera	Dolichopodidae	Pelastoneurus brevis
Diptera	Dolichopodidae	Pelastoneurus neglectus
Diptera	Dolichopodidae	Pelastoneurus proximus
Diptera	Dolichopodidae	Pelastoneurus vagans
Diptera	Dolichopodidae	Plagioneurus univittatus
Diptera	Dolichopodidae	Rhaphium dubium
Diptera	Dolichopodidae	Rhaphium exile
Diptera	Dolichopodidae	Rhaphium insolitum
Diptera	Dolichopodidae	Sympycnus lineatus
Diptera	Dolichopodidae	Thinophilus n sp
Diptera	Dolichopodidae	Thrypticus n sp
Diptera	Drosophilidae	Leucophenga varia
Diptera	Empididae	Chelipoda elongata
Diptera	Empididae	Syneches debilis
Diptera	Ephyridae	Ceropsilopa coquilletti
Diptera	Ephyridae	Discocerina obscurella
Diptera	Ephyridae	Gastrops nebulosus
Diptera	Ephyridae	Paralimna punctipennis
Diptera	Ephyridae	Scatella stagnalis
Hymenoptera	Eumenidae	Eumenes fraternus
Homoptera	Flatidae	Metcalfa pruinosa
Hymenoptera	Formicidae	Aphaenogaster carolinensis
Hymenoptera	Formicidae	Aphaenogaster rudis complex
Hymenoptera	Formicidae	Camponotus americanus
Hymenoptera	Formicidae	Camponotus americanus
Hymenoptera	Formicidae	Camponotus castaneus
Hymenoptera	Formicidae	Crematogaster ashmeadi
Hymenoptera	Formicidae	Dorymyrmex bureni

Hymenoptera	Formicidae	Hypoponera opaciceps
Hymenoptera	Formicidae	Lasius flavus
Hymenoptera	Formicidae	Odontomachus brunneus
Hymenoptera	Formicidae	Odontomachus clarus
Hymenoptera	Formicidae	Odontomachus ruginodis
Hymenoptera	Formicidae	Paratrechina concinna
Hymenoptera	Formicidae	Pheidole dentata
Hymenoptera	Formicidae	Pheidole moerens
Hymenoptera	Formicidae	Prenolepis imparis
Hymenoptera	Formicidae	Solenopsis carolinensis
Hymenoptera	Formicidae	Solenopsis globularia
Hymenoptera	Formicidae	Solenopsis invicta
Hymenoptera	Formicidae	Solenopsis picta
Hymenoptera	Formicidae	Trachymyrmex septentrionalis
Odonata	Gomphidae	Arigomphus pallidus
Diptera	Heleomyzidae	Aecothea specus
Neuroptera	Hemerobiidae	Micromus posticus
Neuroptera	Hemerobiidae	Sympherobius amicus
Homoptera	Issidae	Thiona bullata
Trichoptera	Leptoceridae	Oecetis cinerascens
Trichoptera	Leptoceridae	Oecetis inconspicua
Trichoptera	Leptoceridae	Oecetis osteni
Odonata	Lestidae	Lestis vigilax
Odonata	Libellulidae	Celithemis fasciata
Odonata	Libellulidae	Erythemis simplicicollis
Odonata	Libellulidae	Miathyria marcella
Odonata	Libellulidae	Pachydiplax longipennis
Odonata	Libellulidae	Tetragoneuria cynosura
Odonata	Libellulidae	Tramea carolina
Coleoptera	Melandryidae	Eustrophinus bicolor
Diptera	Micropezidae	Taeniptera trivittata
Hemiptera	Miridae	Phytocoris neglectus
Hymenoptera	Mutillidae	Dasymutilla castor
Hymenoptera	Mutillidae	Dasymutilla lepeletierii
Hymenoptera	Mutillidae	Dasymutilla occidentalis
Hymenoptera	Mutillidae	Pseudomethoca simillima
Strepsiptera	Myrmecholocidae	Caenocholax fenyesei
Hemiptera	Naucoridae	Pelocoris femoratus
Hemiptera	Nepidae	Ranatra australis
Hemiptera	Nepidae	Ranatra buenoi
Hemiptera	Nepidae	Ranatra kirkaldyi
Hemiptera	Nepidae	Ranatra nigra
Lepidoptera	Noctuidae	Anticarsia gemmatalis
Lepidoptera	Noctuidae	Plathypena scabra
Lepidoptera	Nymphalidae	Calycopis cecrops
Lepidoptera	Nymphalidae	Hermeuptychia sosybius
Diptera	Oдиниidae	Traginops irroratus
Hemiptera	Pentatomidae	Meneclis insertus
Diptera	Phoridae	Diplonevra hamata
Diptera	Phoridae	Dohniphora perplexa
Diptera	Phoridae	Phymatopterella ovatimacula

Hymenoptera	Pompilidae	<i>Ceropales maculata</i>
Hymenoptera	Pompilidae	<i>Poecilopompilus interruptus</i>
Diptera	Psychodidae	<i>Clytocerus americanus</i>
Diptera	Psychodidae	<i>Paramormia ustulata</i>
Diptera	Psychodidae	<i>Parapanimerus</i> sp
Diptera	Psychodidae	<i>Pericoma wirthi</i>
Diptera	Psychodidae	<i>Psychoda cinerea</i>
Diptera	Psychodidae	<i>Psychoda minuta</i>
Diptera	Psychodidae	<i>Psychoda</i> sp 1
Diptera	Psychodidae	<i>Quateiella interdicta</i>
Diptera	Psychodidae	<i>Tinearia alternicola</i>
Diptera	Psychodidae	<i>Tinearia limicola</i>
Diptera	Psychodidae	<i>Trichomyia nuda</i>
Diptera	Ptychopteridae	<i>Bittacomorpha clavipes</i>
Diptera	Rhagionidae	<i>Chrysopilus rotundipennis</i>
Diptera	Rhinophoridae	<i>Bezzimyia americana</i>
Hemiptera	Rhyarochromidae	<i>Heraeus plebejus</i>
Diptera	Sarcophagidae	<i>Ravinia stimulans</i>
Coleoptera	Scarabaeidae	<i>Dyscinetus morator</i>
Diptera	Sciomyzidae	<i>Atrichomelina pubera</i>
Diptera	Sciomyzidae	<i>Dictya pictipes</i>
Diptera	Sciomyzidae	<i>Dictya stricta</i>
Diptera	Sciomyzidae	<i>Limnia loewi</i>
Hymenoptera	Sphecidae	<i>Eremnophila aureonotata</i>
Hymenoptera	Sphecidae	<i>Sphecius speciosus</i>
Diptera	Stratiomyidae	<i>Ptectucus sackenii</i>
Diptera	Stratiomyidae	<i>Ptectucus trivittatus</i>
Diptera	Syrphidae	<i>Ocyptamus fuscipennis</i>
Diptera	Syrphidae	<i>Toxomerus geminatus</i>
Diptera	Tabanidae	<i>Chlorotabanus crespuscularis</i>
Diptera	Tabanidae	<i>Chrysops dixianus</i>
Diptera	Tabanidae	<i>Tabanus petiolatus</i>
Diptera	Tachinidae	<i>Anisia gilvipes</i>
Diptera	Tachinidae	<i>Genea pavonacea</i>
Diptera	Tachinidae	<i>Houghia setineuris</i>
Diptera	Tachinidae	<i>Myiopharus ancillus</i>
Diptera	Tachinidae	<i>Ormia dominicana</i>
Diptera	Tachinidae	<i>Oswaldia minor</i>
Diptera	Tachinidae	<i>Paradidyma affinis</i>
Diptera	Tachinidae	<i>Paradidyma petiolata</i>
Diptera	Tachinidae	<i>Paradidyma singularis</i>
Diptera	Tachinidae	<i>Prospherysa pulvereae</i>
Diptera	Tachinidae	<i>Spathidexia clemonsi</i>
Diptera	Tipulidae	<i>Atarba picticornis</i>
Diptera	Tipulidae	<i>Brachypremna dispellens</i>
Diptera	Tipulidae	<i>Dolichozepe subalbipes</i>
Diptera	Tipulidae	<i>Epiphragma solatrix</i>
Diptera	Tipulidae	<i>Erioptera caloptera</i>
Diptera	Tipulidae	<i>Erioptera cana</i>
Diptera	Tipulidae	<i>Erioptera needhami</i>
Diptera	Tipulidae	<i>Erioptera parva</i>

Diptera	Tipulidae	Erioptera septemtrionis
Diptera	Tipulidae	Erioptera vespertina
Diptera	Tipulidae	Gonomyia pleuralis
Diptera	Tipulidae	Limnophila macrocera
Diptera	Tipulidae	Limonia bryanti
Diptera	Tipulidae	Limonia communis
Diptera	Tipulidae	Limonia divisa
Diptera	Tipulidae	Limonia domestica
Diptera	Tipulidae	Limonia globithorax
Diptera	Tipulidae	Limonia rostrata
Diptera	Tipulidae	Limonia shannoni
Diptera	Tipulidae	Nephrotoma ferruginea
Diptera	Tipulidae	Nephrotoma virescens
Diptera	Tipulidae	Pilaria imbecilla
Diptera	Tipulidae	Pilaria recondite
Diptera	Tipulidae	Polymera georgiae
Diptera	Tipulidae	Pseudolimnophila luteipennis
Diptera	Tipulidae	Teucholabis complexa
Diptera	Tipulidae	Teucholabis immaculata
Diptera	Tipulidae	Tipula sayi
Diptera	Tipulidae	Tipula furca
Diptera	Tipulidae	Tipula sayi
Diptera	Tipulidae	Toxorhina magna
Homoptera	Tropiduchidae	Pelitropis rotulata
Hymenoptera	Vespidae	Dolichovespula maculata
Hymenoptera	Vespidae	Mischocyttarus cf cubensis

LIST OF COLLABORATORS

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Blattaria

L. Roth (Harvard University)

Coleoptera

Anobiidae

C. Smith (University of Georgia)

Buprestidae

C. Bellamy (California Dept. of Food & Agriculture)

Cerambycidae

T. Schiefer (Mississippi State University)

Curculionidae

A. Howden (Agriculture and Agri-Food Canada)

Chrysomelidae

S. Clark (Brigham Young University)

Histeridae

A. Tishechkin (Louisiana State University)

Lampyridae

C. Smith (University of Georgia)

Melandryidae

C. Smith (University of Georgia)

Melyridae	Mayor (Great Smoky Mountains National Park)
Mordellidae	C. Smith (University of Georgia)
Scarabaeidae	H. Howden (Agriculture and Agri-Food Canada)

Diptera

Anthomyiidae	D. Ackland (Kidlington, England)
Asilidae	A. Scarbrough (Towson University), R. Nelson (Brigham Young University)
Bibionidae	S. Fitzgerald (Oregon State University)
Caliphoridae	D. Wood (Agriculture and Agri-Food Canada)
Ceratopogonidae	W. Grogan (Salisbury State University)
Chironomidae	J. Epler (Crawfordville, Florida), B. Caldwell (Lawrenceville, Georgia)
Clusiidae	G. Steck (Florida Division of Plant Industry)
Corethrellidae	A. Borkent (Salmon Arm, British Columbia)
Culicidae	W. Reeves (Clemson University)
Dolichopodidae	R. Hurley (Montana State University)
Empididae	B. Sinclair (Bonn, Germany), J. MacDonald (Purdue University)
Ephydriidae	J. Keiper (Cleveland Museum of Natural History)
Micropezidae	S. Marshall (University of Guelph)
Muscidae	A. Pont (Oxford University)
Odiniidae	G. Steck (Florida Division of Plant Industry)
Phoridae	H. Disney (Cambridge, England)
Pipunculidae	J. Skevington (Agriculture and Agri-Food Canada)
Psychodidae	R. Wagner (Limnologische Fluss-Station, Germany)
Rhagionidae	D. Webb (Illinois Natural History Museum)
Rhinophoridae	D. Wood (Agriculture and Agri-Food Canada)
Sarcophagidae	T. Papp (Swedish Museum of Natural History)
Sciomyzidae	J. Keiper (Cleveland Museum of Natural History)
Simuliidae	P. Adler (Clemson University)
Stratiomyiidae	M. Hauser (Illinois Natural History Survey)
Syrphidae	M. Hauser (Illinois Natural History Survey)
Tabanidae	J. Burger (University of New Hampshire)
Tachinidae	D. Wood (Agriculture and Agri-Food Canada)
Tephritidae	G. Steck (Florida Division of Plant Industry)
Tipulidae	C. Young (Carnegie Museum)

Heteroptera / Homoptera

Miridae	T. Henry (USDA Systematic Entomology Lab)
Pentatomidae	D. Rider (North Dakota State University)
Rhyparochromidae	T. Henry (USDA Systematic Entomology Lab)
Homoptera”	C. Bartlett (University of Delaware)

Hymenoptera	
Evaniidae	D. Smith (USDA Systematic Entomology Lab)
Formicidae	M. Deyrup (Archbold Biological Station)
	E. Paysen (Clemson University)
Mutillidae	D. Manley (Clemson University)
Symphyta and Evaniidae	D. Smith (USDA Systematic Entomology Lab)
Mecoptera	
Bittacidae	G. Byers (University of Kansas)
Neuroptera	J. Oswald (Texas A & M University)
Odonata	D. Paulson (University of Puget Sound)
	K. Tennessen (Tennessee Valley Authority)
	J. McCreadie (University of South Alabama)
Orthoptera	M. Dakin (Auburn University)
Plecoptera	B. Stark (Mississippi College)
Psocoptera	A. Garcia Aldrete (Universidad Nacional Autonoma de Mexico)
Strepsiptera	J. Cook (Sam Houston State University)
Thysanoptera	L. Mound (CSIRO, Australia)
Trichoptera	
Hydroptilidae	S. Harris (Clarion University)
Hydropsychidae	O. Flint (Smithsonian Institution)
Leptoceridae	O. Flint (Smithsonian Institution)
Polycentropodidae	O. Flint (Smithsonian Institution)
Other Arthropods	
Diplopoda	R. Hoffman (Virginia Museum of Natural History)
Pseudoscorpiones	W. Muchmore (retired)
Spiders	F. Coyle (Western Carolina University)