Quote – Holmes on 'Entomology'

" I suppose you are an entomologist ? "

" Not quite so ambitious as that, sir. I should like to put my eyes on the individual entitled to that name.

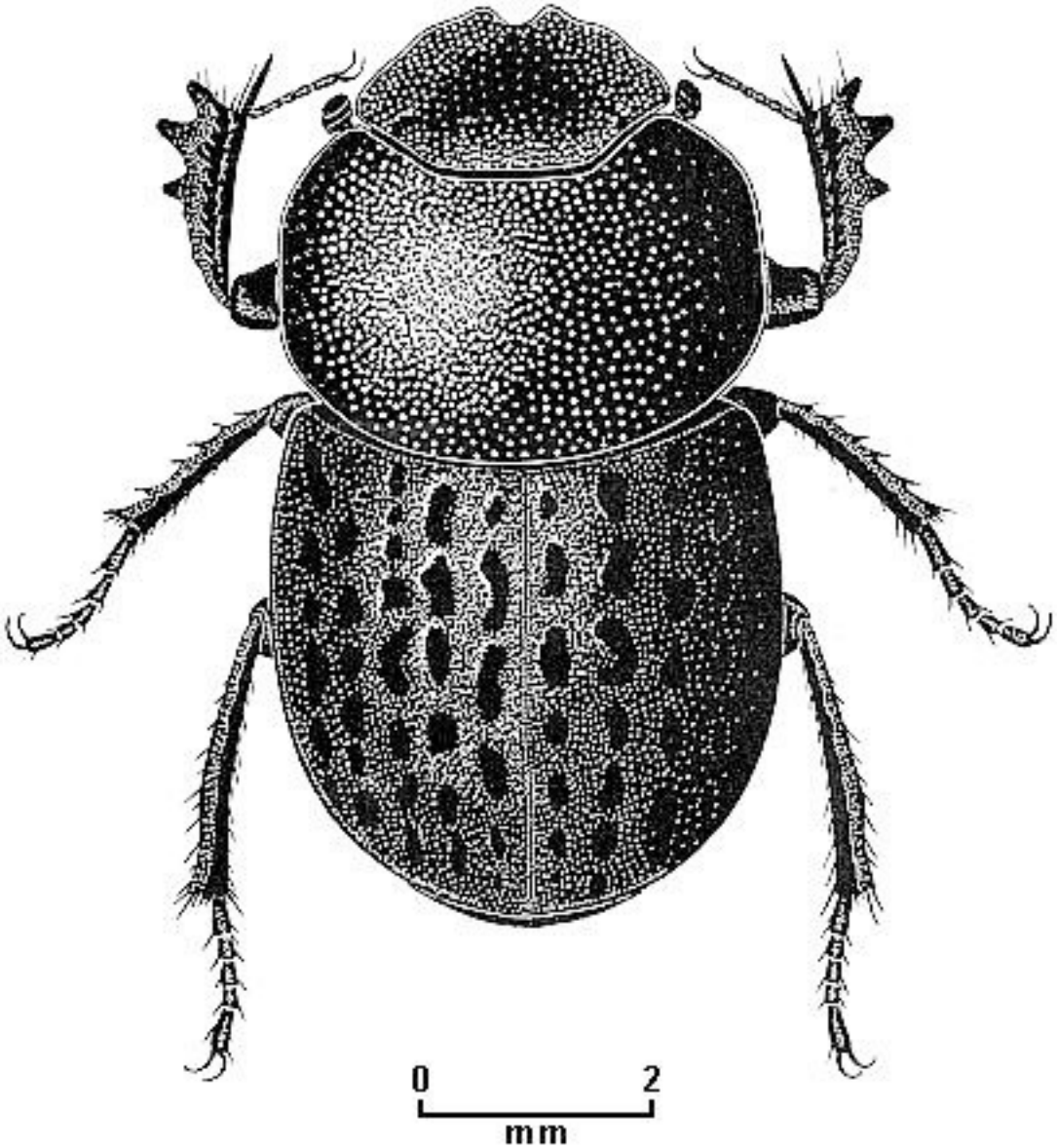
No man can be truly called an entomologist,
sir; the subject is too vast for any single human intelligence to grasp."

Oliver Wendell Holmes, Sr

The Poet at the Breakfast Table.

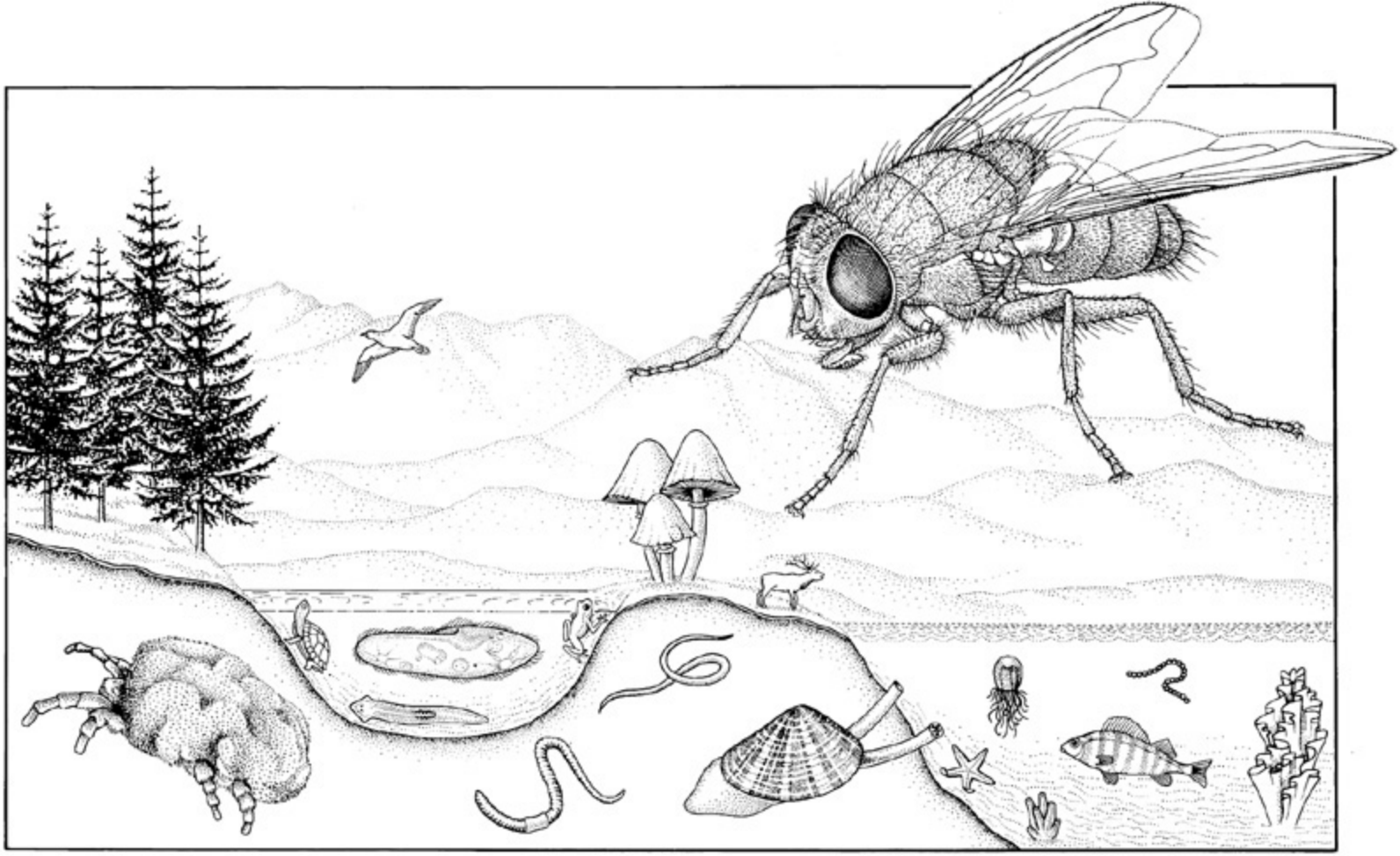
Image credit : Wikimedia Commons.

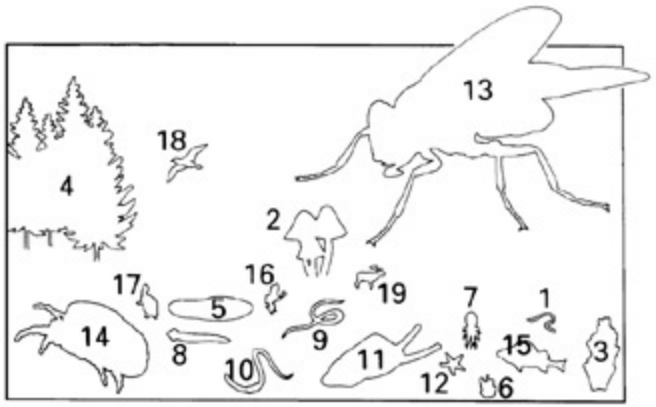
Oliver Wendell Holmes, Sr



Insects-->800,000 species

Birds--about 8,000 species





1 Prokaryotes
2 Fungi
3 Algae
4 Plantae (multicellular plants)
5 Protozoa
6 Porifera (sponges)
7 Cnidaria (jellyfish, corals, etc.)
8 Platyhelminthes (flatworms)
9 Nematoda (roundworms)
10 Annelida (earthworms, leeches, etc.)
11 Mollusca (snails, bivalves, octopus, etc.)
12 Echinodermata (starfish, sea urchins, etc.)
13 Insecta
14 Non-insect Arthropoda
15 Pisces (fish)
16 Amphibia (frogs, salamanders, etc.)
17 Reptilia (snakes, lizards, turtles)
18 Aves (birds)
19 Mammalia (mammals)

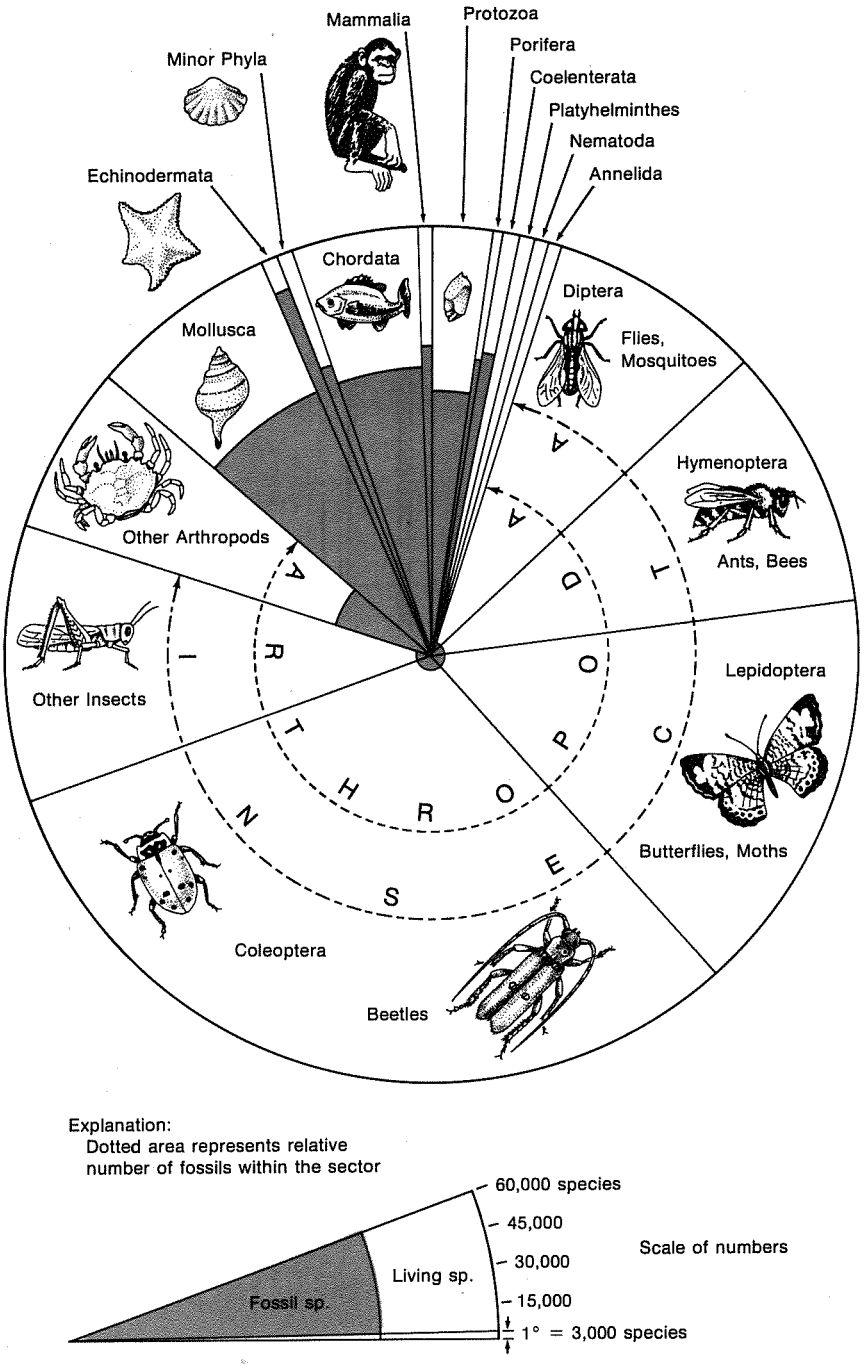


Figure 1. Pie diagram of the relative numbers of living species belonging to the major taxonomic groups of animals. The diagram reveals the great diversity of insects, particularly of the beetles (Coleoptera), flies (Diptera), wasps and related forms (Hymenoptera), and moths and butterflies (Lepidoptera). Although the estimates of absolute numbers were made in 1953, and hence are somewhat out of date, the proportional representation of the major groups remains about the same. (From "The Relative Number of Living and Fossil Species of Animals," S. W. Muller and Alison Campbell, *Systematic Zoology*, 3(4):168–170.)

Kingdom	Animalia
Phylum	Arthropoda
Class	Insecta
Order	Hymenoptera
Family	Apidae
Genus	*Apis*
Species	*mellifera*
Subspecies	*ligustica*

Kids Pour Coffee On Fat Girl Scouts

Kings Play Chess On Fridays, Generally Speaking

King Phillip Came Over From Glorious Scotland

King Phillip Came Over From Germany Stoned

Apis mellifera ligustica L.

Western honey bee
(Italian race)

Genus *Apis*
Species *mellifera*
Subspecies *ligustica*
L for Linnaeus

Common, or vernacular, name =

Name used in common parlance (in the indigenous language)

German cockroach--*Blattella germanica*

Helicoverpa zea

aka

Corn earworm

Cotton bollworm

Tomato fruitworm

False tobacco budworm

Carolus Linnaeus
author of
Systema Naturae
(1758) and inventor
of the binomial
system of nomenclature
Systema Naturae
contained about 2000
insect names

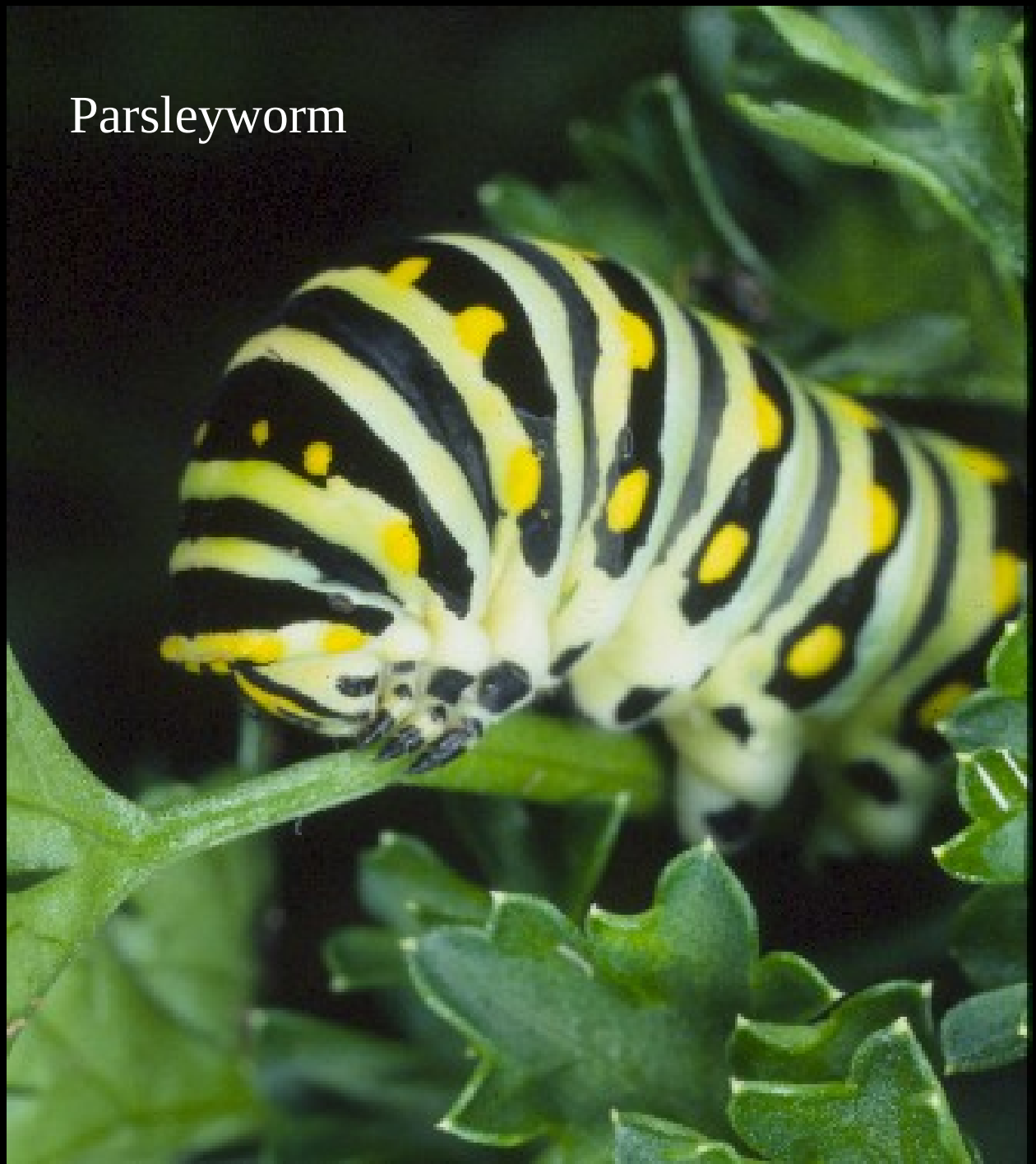
Reasons for using scientific (instead of vernacular) names

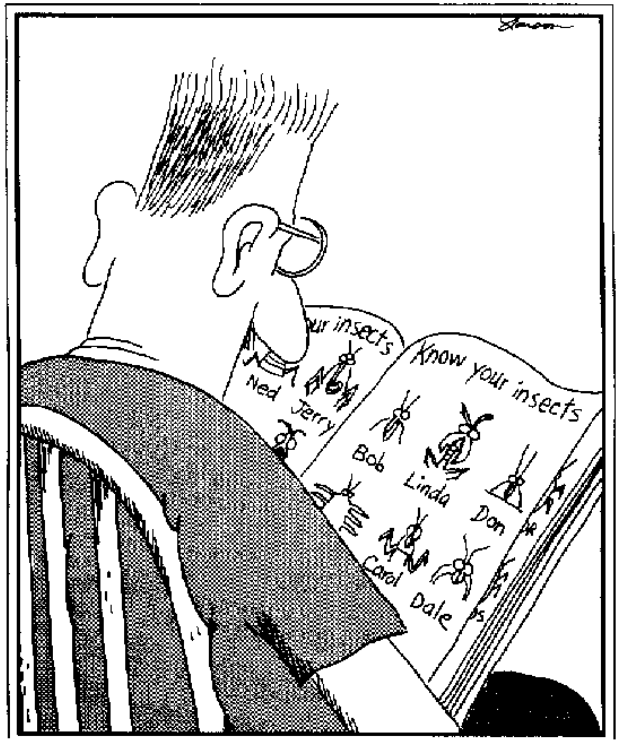
- they’re universally understood
- they convey information about the organism’s taxonomic position
- they convey information content about the organism’s appearance or habits
- they apply to all life stages

Diabrotica undecimpunctata (“eleven-spots”)

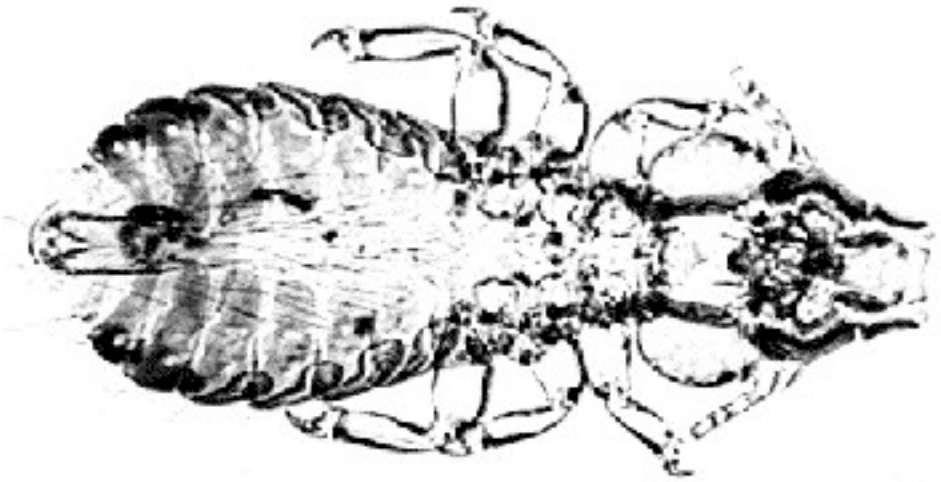
Rhopalosiphum maidis (“corn”)

Black swallowtail (*Papilio polyxenes*)


Parsleyworm

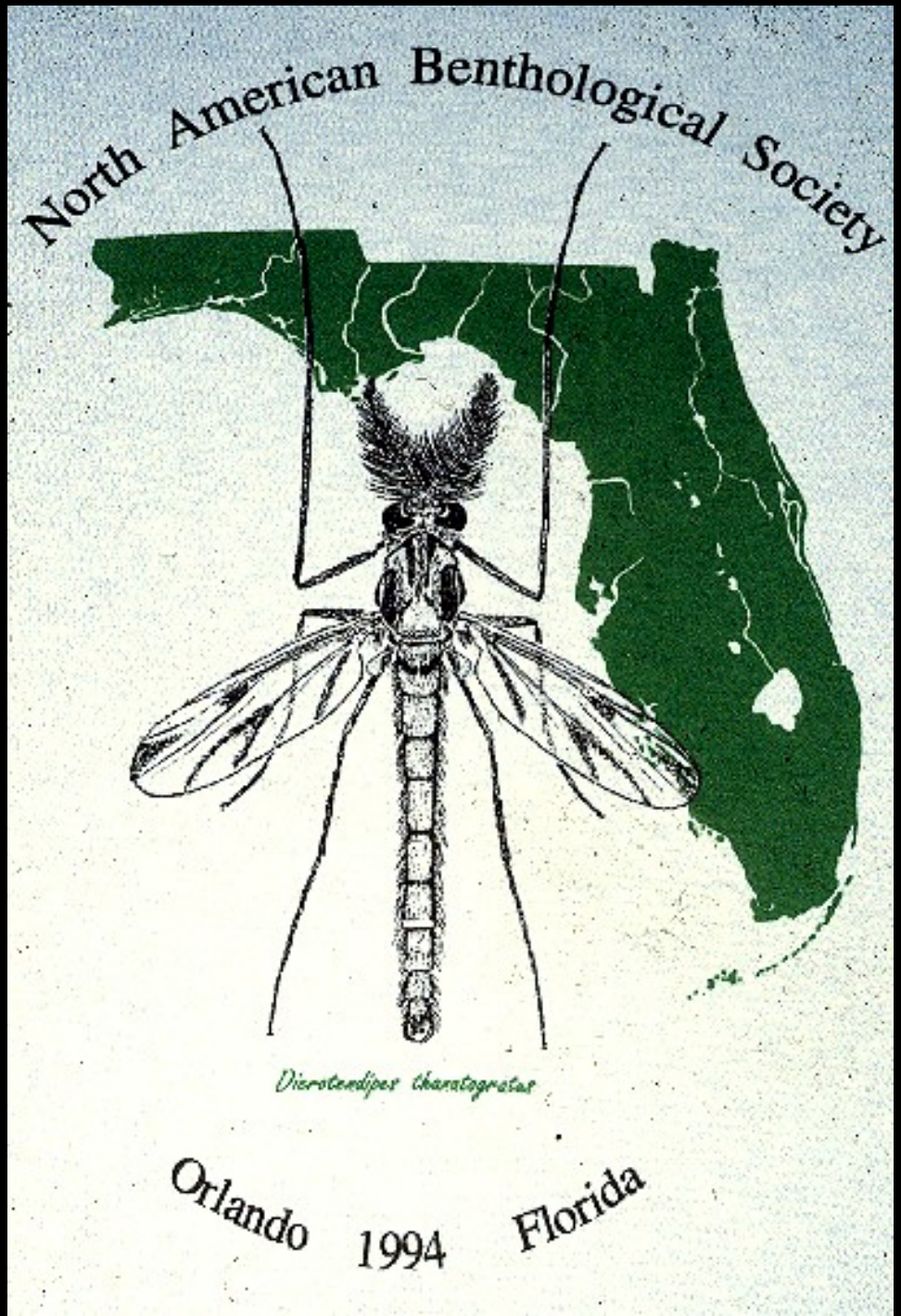


Example of a patronym



Strigiphilus garylarsoni

http://members.aol.com/thomas2002/lice.html



Dicrotendipes thanatogratus

from "*thanatos*" = "dead"
and "gratus" = "grateful"

Scaptia beyonceae Lessard, 2011

Click here for more info.

Fossil paleodictyopteran
Scepasma europea (formerly *Rochlingia hitleri*)

Taxonomic rules to remember

- The only taxonomic names that are italicized are genus and species
- The species epithet is never capitalized
- Names of kingdoms, phyla, classes, orders, families, and genera are always capitalized
- Family names of animals end in “i-d-a-e” (e.g., Chrysomelidae)

Longest name	*Parastratiosphecomyia stratiosphecomyioides*	(stratiomyid fly)
Shortest name	*Ips pini*	(pine beetle)
	Peza ops	(water mite)
Strange names	*Aaata*	(buprestid beetle)
	Zyzzyva	(beetle)
	La cucaracha	(snout moth)
	Aha ha	(sphecid wasp)
	Enema pan	(beetle)
	Verae peculya	(wasp)
	Heerz lukenatcha	(wasp)
	Phthiria relativitae	(bee fly)
	Agra vation	(beetle)

Taxon Explorer

File Edit

Contents Find Favorites

guamensis | Taxon & Common I | Find

- Alaus guamensis
- Palmicultor guamensis
- Longipalpus guamensis (Gressit)
- Pharellus guamensis Chapin
- Lithurge guamensis Cockerell
- Hostis guamensis Cresson
- Aedes (Stegomyia) guamensis Farner and Bohart
- Holoplagia guamensis (Johannsen)
- Ponapeida guamensis Kulzer
- Agrionoptera insignis guamensis Lieftinck
- Tambinia guamensis Metcalf
- Jamitettix guamensis Metcalf
- Jamitettix guamensis Metcalf
- Trichogrammatoidea guamensis Nagaraja
- Psychoda quadrifilis guamensis Quate
- Eumerus guamensis Shiraki
- Smittia guamensis Tokunaga
- Melanoxanthus guamensis Van Zwaluenburg
- Gronotoma guamensis (Yoshimoto)

Select OK Apply Cancel

Taxon Explorer

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Contents Find Favorites

yona | Taxon & Common I | Find

- Empoasca yona Metcalf

OK Apply Cancel

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File Edit

Contents Find Favorites

rota | Taxon & Common I | Find

- Dichaetomyia rota Snyder
- Ugyops rotana Fennah
- Ceresium (Ceresium) rotanum Gressitt
- Aedes (Stegomyia) rotanus Bohart and Ingram

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saipan | Taxon & Common I | Find

- Dysmicoccus saipanensis
- Lymaenon saipanensis Doutt
- Longipalpus saipanensis Gressit
- Calisius saipanensis Matsuda and Usinger
- Aedes (Stegomyia) saipanensis Stone
- Lallemandana phalerata saipanensis Synave
- Ceresium (Paraceresium) saipanicum (Matsushita)

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tinianensis | Taxon & Common I | Find

- Calisius tinianensis Matsuda and Usinger

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marian | Taxon & Common I | Find

- Aphelinoidea mariana
- Aulacophora mariana Chujo
- Sciadella (Micronesiella) mariana Gressitt
- Dichaetomyia mariana Snyder
- Parvisquama mariana Snyder
- Pygophora mariana Snyder
- Brontispa mariana Spaeth
- Culex (Culex) annulirostris marianae Bohart and Ingram
- Niphetogryllacris marianae Kevan
- Halovelia marianarum Usinger
- Simodactylus marianarum Van Zwaluwenburg
- Polytoxus marianensis
- Mezira marianensis
- Chlaenius marianensis Darlington
- Coleotichus marianensis Usinger
- Lasiochilus marianensis Usinger
- Halobates mariannarum Esaki

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Contents Find Favorites

micrones | Taxon & Common I | Find

- Lepidosaphes micronesiensis Takahashi

Select OK Apply Cancel

Taxon Explorer

File Edit

Contents Find Favorites

piti | Taxon & Common I | Find

- Empoasca pitiensis Metcalf

OK Apply Cancel

Insnesia

Insnesia is a genus of psyllids described by Tuthill.

The name comes from **Ins**ects of Micro**nesia**, the journal series in which the description was published.

Insnesia glabrascuta (Caldwell) is a very common pest of ifil trees on Guam.