



List of Protostome Species

Lista de Especies de Protostomas

Updated April 2018 / actualizado abril 2018

This list includes taxa otherwise called invertebrates including annelids, mollusks, flatworms, nematodes, velvet worms, and arthropods. No doubt this is the largest group of eukaryotic organisms in the Reserve with thousands of species.

Esta lista representa los taxa que son conocidos como invertebrados e incluyen caracoles, gusanos y artrópodos. Las protostomas es el grupo más diverso de eucariotas en la Reserva con miles de especies.

Annelida

Haplotaxida

Mollusca

Gastropoda

Platyhelminthes

Turbellaria

Tricladida

Hydrobiidae

Geoplanidae

Bipalium sp. (invasive)

Planariidae

Nematomorpha

Onychophora

Arthropoda

Chelicerata

Arachnida

Acari

Amblypygi

Araneae

Opisthothelae

Mygalomorphae

Ringed Worms

Snails and Slugs

Mud Snails

Flatworms

Horsehair Worms

Velvet Worms

Arthropods

Mites and Ticks

Whip Scorpions

Spiders

Theraphosidae	Tarantulas
Araneomorphae	
Scytodoidea	
Scytodidae	Spitting Spiders
<i>Scytodes</i> sp.	
Pholcoidea	
Pholcidae	Daddy long-leg Spiders
Uloboroidea	
Uloboridae	Hackled orb-weaving Spiders
Araneoidea	
Araneidae	Orb-weaving Spiders
<i>Araneus</i> sp.	
<i>Argiope argentata</i>	
<i>Argiope savignyi</i>	
<i>Micrathena espinosa</i>	
Tetragnathidae	Long jawed Orb-weaving Spiders
<i>Nephila clavipes</i>	
Theridiidae	Cobweb Spiders
<i>Argyodes elevatus</i>	
<i>Faitidus caudatus</i>	
Theridiosomatidae	Ray Spiders
Lycosoidea	
Ctenidae	Tropical Wolf Spiders
<i>Cupanius</i> sp.	
Pisauridae	Nursery Spiders
Salticoidea	
Salticidae	Jumping Spiders
<i>Phiale formosa</i>	
Opiliones	Harvestmen
Scorpiones	Scorpions
Mandibulata	
Myriapoda	
Diplopoda	Millipedes
Chilopoda	Centipedes
Crustacea	
Malacostraca	
Decapoda	Crabs and Shrimp
Palaemonidae	
<i>Macrobrachium heterochirus</i>	
Pseudothelphusidae	
Potamocarcinini	
<i>Potamocarcinus magnus</i>	
Isopoda	Sow Bugs
Hexapoda	
Insecta	
Paleoptera	
Odonata	Dragonflies and Damselflies
Anisoptera	
Aeshnidae	Darners
Corduliidae	Emeralds
<i>Neocordulia batesi</i>	

Gomphidae	Clubtails
<i>Epigomphus tumefactus</i>	
<i>Erpetogomphus</i> sp.	
<i>Perigomphus</i> sp.	
Libellulidae	Skimmers
<i>Cannaphila mortoni</i>	
<i>Dythemis multipunctata</i>	
<i>Ega</i> sp.	
<i>Elasmothemis cannacrioides</i>	
<i>Erythrodiplax andagoia</i>	
<i>Macrothemis musiva</i>	
<i>Orthemis discolor</i>	
<i>Paltothemis lineatipes</i>	
<i>Sympetrum</i> sp.	
<i>Tauriphila argo</i>	
<i>Uracis imbuta</i>	
Zygoptera	
Calopterygidae	Broad-winged Damselflies
<i>Hetaerina majuscula</i>	
<i>Hetaerina miniata</i>	
<i>Hetaerina occisa</i>	
Coenagrionidae	Pond Damselflies
<i>Acanthagrion speculum</i>	
<i>Argia adamsi</i>	
<i>Argia cupraurea</i>	
<i>Argia frequentula</i>	
<i>Argia indicatrix</i>	
<i>Argia johannella</i>	
<i>Argia popoluca</i>	
<i>Argia</i> "popoluca near"	
<i>Metaleptobasis bovilla</i>	
<i>Telebasis digiticollis</i>	
Megapodagrionidae	Flatwinged Damselflies
<i>Heteragrion albifrons</i>	
<i>Heteragrion erythrogastrum</i>	
<i>Heteragrion mitratum</i>	
<i>Philogenia expansa</i>	
Perilestidae	Shortwinged Damselflies
<i>Perissolestes magdalenae</i>	
<i>Perissolestes remotus</i>	
Platystictidae	Shadow Damselflies
<i>Palaemnema collaris</i>	
<i>Palaemnema dentata</i>	
<i>Palaemnema distadens</i>	
<i>Palaemnema gigantula</i>	
<i>Palaemnema</i> "orange tail"	
<i>Palaemnema paulirica</i>	
Polythoridae	Bannerwinged Damselflies
<i>Cora</i> sp.	
Protoneuridae	Threadtail Damselflies
<i>Psaironeura remissa</i>	

	Pseudostigmatidae	Helicopter Damsels
	<i>Mecistogaster linearis</i>	
	<i>Megaloprepus caerulatus</i>	
Ephemeroptera		Mayflies
	Baetidae	
	<i>Americabaetis</i> sp.	
	<i>Baetis</i> sp.	
	<i>Baetodes tritus</i>	
	<i>Baetodes</i> sp.	
	<i>Camelobaetidius</i> sp.	
	<i>Cloeodes</i> sp.	
	<i>Fallceon</i> sp.	
	<i>Paracloeodes</i> sp.	
	Heptagenidae	
	<i>Maccaffertium mexicanum</i>	
	Isonychiidae	
	<i>Isonychia</i> sp.	
	Leptohyphidae	
	<i>Allenhyphes</i> sp.	
	<i>Cabecar serratus</i>	
	<i>Epiphrales undatus</i>	
	<i>Leptohyphes</i> sp.	
	<i>Tricorythodes</i> sp.	
	<i>Vacuperinus packeri</i>	
	Leptophlebiidae	
	<i>Farrodes</i> sp.	
	<i>Hagenulopsis</i> sp.	
	<i>Thraulodes</i> sp.	
	<i>Traverella holzenthali</i>	
Neoptera		
Exopterygota		
Orthopteroidea		
Plecoptera		Stoneflies
	<i>Anacroneuria</i> sp.	
Dermoptera		Earwigs
Orthoptera		Katydid, Grasshoppers and Crickets
Caelifera		
	Acrididae	
	<i>Dryophilacris bimaculata</i>	
	Romaleidae	
	<i>Munatia biolleyi</i>	
	Tetrigidae	
Ensifera		
	Gryllidae	
	<i>Uvaroviella</i> sp.	
	Tettigoniidae	
	<i>Neoconocephalus</i> sp.	
	<i>Copiphora rhinocerus</i>	
	<i>Pristonotus latistylus</i>	

Dictyoptera		
Phasmida		Stick Insects
Blattodea		Cockroaches and Termites
	Blaberidae	
	<i>Blaberus giganteus</i>	
	<i>Blaberus</i> sp.	
	<i>Panchlora nivea</i>	
	Blatellidae	
	<i>Blatella germanica</i>	
	Blattidae	
	<i>Periplaneta americana</i>	
	Termitidae	
	<i>Nasutitermes</i> sp.	
Mantodea		Mantids
	Acanthopidae	
	<i>Pseudacanthops</i> sp.	
	Mantidae	
	Antemninae	
	Antemnini	
	<i>Antemna rapax</i>	
Hemipteroidea		
Hemiptera		
	Auchenorrhyncha	
	Cicadomorpha	
	Cercopoidea	
	Cercopidae	
	Cicadoidea	
	Cicadidae	Cicadas
	<i>Fidicina mannifera</i>	
	Membracoidea	
	Membracidae	
	Fulgoromorpha	
	Fulgoroidea	
	Fulgoridae	Peanut Bugs
	<i>Fulgora laternaria</i>	
	Heteroptera	
	Cimicomorpha	
	Reduviidae	Assassin Bugs
	Emesinae	Thread-legged Bugs
	Triatominae	Kissing Bugs
	Gerromorpha	
	Gerridae	Water Striders
	Veliidae	Riffle Bugs
	<i>Rhagovelia</i> sp.	
	Nepomorpha	
	Naucoridae	Creeping Water Bugs
	<i>Ambysus</i> sp.	
	<i>Cryphocricos</i> sp.	
	<i>Limnocoris</i> sp.	
	Pentatomomorpha	
	Pentatomidae	Stink Bugs

	<i>Edessa rufomarginata</i>	
Stenorrhyncha		Aphids, Mealybugs, and Scale Insects
Endopterygota		
Hymenopteroidea		
Hymenoptera		Ants, Bees, Wasps, and Sawflies
Symphyla		
Tethredinoidea		
Tethredinidae		Common Sawflies
Apocrita		
Aculeata		
Apoidea		
Apidae		
Apinae		Honey Bees
	<i>Apis mellifera</i>	
Bombinae		Bumble Bees
	<i>Bombus</i> sp.	
Euglossini		Euglossine Bees
	<i>Euglossa</i> sp.	
	<i>Eulaema</i> sp.	
Meliponinae		Stingless Bees
	<i>Trigona</i> spp.	
	<i>Tetragonisca angustula</i>	
Halictidae		Sweat Bees
Sphecidae		Thread-waisted Wasps
Ichneumonoidea		Ichneumon Wasps
Ichneumonidae		
Pompiloidea		Spider Wasps
Pompilidae		
Vespoidea		
Formicidae		Ants
Dolichoderinae		
	<i>Azteca alfari</i>	
	<i>Azteca constructor</i>	
	<i>Azteca xanthochroa</i>	
	<i>Dolichoderus curvilobus</i>	
	<i>Tapinoma ramulorum inrectum</i>	
Ecitoninae		
	<i>Eciton burchellii foreli</i>	
	<i>Eciton hamatum</i>	
	<i>Labidus coecus</i>	
	<i>Neivamyrmex pilosus mexicanus</i>	
	<i>Nomamyrmex esenbeckii</i>	
Formicinae		
	<i>Camponotus sericeiventris</i>	
	<i>Camponotus</i> spp.	
	<i>Myrmelachista flavocotea</i>	
	<i>Paratrechina caeciliae</i>	
	<i>Paratrechina longicornis</i>	
Myrmicinae		
	<i>Acromyrmex octospinosus</i>	
	<i>Acromyrmex volcanus</i>	

Aphaenogaster araneoides
Apterostigma collare
Atta cephalotes
Cephalotes spp.
Crematogaster longispina
Crematogaster spp.
Cyphomyrmex cornutus
Cyphomyrmex salvini
Pheidole spp.
Solenopsis geminata
Solenopsis picea
Solenopsis spp.
Trachymyrmex spp.
Wasmannia auropunctata

Ectatomminae

Ectatomma ruidum
Ectatomma tuberculatum
Gnamptogenys spp.

Heteroponerinae

Acanthoponera minor

Paraponerinae

Paraponera clavata

Ponerinae

Anochetus sp.
Hypoponera spp.
Odontomachus bauri
Odontomachus erythrocephalus
Odontomachus hastatus
Odontomachus meinerti
Pachycondyla apicalis
Pachycondyla spp.

Pseudomyrmecinae

Pseudomyrmex spp.

Vespidae

Vespid Wasps

Polistinae

Agelaia sp.
Apoica pallens
Apoica thorasica
Metapolybia mesoamerica
Mischocyttarus sp.
Parachartergus apicalis/ fraternus
Parachartergus smithii
Polistes sp.
Polybia occidentalis

Neuropteroidea

Megaloptera

Corydalidae

Dobsonflies

Corydalus cornutus

Neuroptera

Lacewings and Ant Lions

Myrmeleontiformia

Ascalaphidae

Owflies

Myrmeleontidae	Ant Lions
Hemerobiiformia	
Mantispidae	Mantidflies
Coleoptera	Beetles
Adephaga	
Carabidae	Ground Beetles
Cicindellinae	Tiger Beetles
Polyphaga	
Staphyliniformia	
Staphylinoidea	
Staphylinidae	
Scarabaeiformia	
Scarabaeoidea	
Passalidae	Bessbugs
<i>Passalus</i> sp.	
Scarabaeidae	Scarab Beetles
<i>Cyclocephala</i> sp.	
<i>Dynastes hercules</i>	
<i>Phyllophaga</i> sp.	
<i>Strategus</i> sp.	
Elateriformia	
Byrrhoidea	
Elmidae	Riffle Beetles
<i>Disersus</i> sp.	
<i>Heterelmis</i> sp.	
<i>Hexacylloepus</i> sp.	
<i>Macrelmis</i> sp.	
<i>Microcylloepus</i> sp.	
<i>Neoelmis</i> sp.	
<i>Xenelmis</i> sp.	
Lutrochidae	Travertine Beetles
Psephenidae	Water-penny Beetles
<i>Psephenops</i> sp.	
Ptilodactylidae	
<i>Tetraglossa</i> sp.	
Elateroidea	
Elateridae	Click Beetles
Cucujiformia	
Cucujoidea	
Coccinellidae	Ladybird Beetles
Erotylidae	Pleasing Fungus Beetles
Chrysomeloidea	
Chrysomelidae	Leaf Beetles
Cerambycidae	Long-horned Beetles
Prioninae	
Anacolini	
<i>Otheostethus melanurus</i>	
Callipogonini	
<i>Callipogon</i> sp.	
Prionini	

Derobrachus sp.

Cerambycinae

Anaglyptini

Pempteurys sericans

Clytini

Neoclytus cacticus

Pirangoclytus amaryllis

Placosternus guttatus

Eburiini

Eburia sp.

Elaphidiini

Aneflus planus

Heteropsini

Chrysoprasis sp.

Tobipuranga belti

Necydalopsini

Ozodes multituberculatus

Platyarthrini

Platyarthron chilense

Rhinotragini

Acyphoderes cribricollis

Trachyderini

Trachyderes hilaris

Lamiinae

Acanthocinini

Lagocheirus araneiformis ypsilon

Leptostylus sp.

Nyssodrysina haldemani

Oedopeza ocellator

Oedopeza setigera

Urgleptes sp.

Acanthoderini

Steirastoma breve

Anisocerini

Batesbeltia belti

Bothriospilini

Chlorida festiva

Colobotheini

Carterica pygmaea

Colobothea aleata

Colobothea bitincta

Lamiini

Taeniotes scalatus

Onciderini

Lochmaeocles consobrinus consobrinus

Jamesia papulenta

Curculionoidea

Dryophthoridae

Weevils

Orthognathinae

Rhinostomus barbirostris

Mecopteroidea

Diptera	Flies
Nematocera	
Culicomorpha	
Ceratopogonidae	No-see-ums
Chironomidae	Non-biting Midges
<i>Corynoneurini</i> spp.	
<i>Cricotopus</i> sp.	
<i>Nandeeva</i> sp.	
Culicidae	Mosquitoes
Dixidae	Meniscus Midges
<i>Dixella</i> sp.	
Simuliidae	Black Flies
Tipulidae	Crane Flies
<i>Hexatoma</i> sp.	
Psychodomorpha	
Psychodidae	Drain Flies
Brachycera	
Cyclorrhapha	
Schizophora	
Calypterae	
Muscidae	House Flies
Tachinidae	
Drosophilidae	Fruit Flies
Strebliidae	Bat Flies
Acalyptrae	
Micropezidae	
Aschiza	
Phoridae	
Stratiomyidae	Soldier Flies
Syrphidae	Hover Flies
Orthorrhapha	
Asilidae	Robber Flies
Dolichopodidae	Long-legged Flies
Tabanidae	Horse or Deer Flies
Lepidoptera	
Ditrysia	
Tineoidea	
Psychidae	Bagworm Moths
Bombycoidea	
Bombycidae	Silk Moths
<i>Olceclostera amoria</i>	
<i>Prothysana felderi</i>	
Saturniidae	Giant Silkworm Moths
Ceratocampinae	
<i>Adeloneivaia</i> sp.	
Hemileucinae	
<i>Automeris hamata</i>	
<i>Automeris</i> sp.	
Oxyteninae	
<i>Therinia transversaria</i>	
Sphingidae	Sphinx Moths

Macroglossinae	
Dilophonotini	
<i>Hemeroplanes</i> sp.	
Macroglossini	
<i>Callionima pan</i>	
<i>Xylophanes zucheri</i>	
Smerinthinae	
Smerinthini	
<i>Adhemarius gannascus</i>	
Sphiginae	
Sphingini	
<i>Cocytius duponchel</i>	
<i>Manduca barnesi</i>	
Geometroidea	
Geometridae	Inchworm Moths
Ennominae	
Boarmiini	
<i>Iridopsis herse</i>	
Caberini-baptini	
<i>Sphacelodes vulneraria</i>	
<i>Thysanopyga abdominalaria</i>	
<i>Thysanopyga amarantha</i>	
Cassymini	
<i>Leuciris institata</i>	
Geometrinae	Emerald Moths
Lophochoristini	
<i>Oospila atopochlora</i>	
<i>Oospila ruptimacula</i>	
Sterrhinae	
Cosymbiini	
<i>Anisodes nodigera</i>	
Uraniidae	Swallowtail Moths
Uraniinae	
<i>Urania fulgens</i>	
Hesperioidea	
Hesperiidae	Skippers
Noctuoidea	
Erebidae	Tiger Moths
Arctiinae	
<i>Episcepsis demonis</i>	
Arctiini	
<i>Psoloptera thoracica</i>	
<i>Trichromia metapyria</i>	
Erebinae	
Thermesiini	
<i>Ascalapha odorata</i>	
<i>Hemeroblemma acron</i>	
Calpinae	Fruit-piercing Moths
Calpini	
<i>Gonodonta holosericea</i>	

Noctuidae	Underwing Moths
Condicinae	
Condicini	
<i>Perigea lineata</i>	
Notodontidae	Prominents
<i>Lirimiris postpallida</i>	
Pyroloidea	
Crambidae	Crambid Snout Moths
Spilomelinae	
<i>Glyphodes rubrocinctalis</i>	
<i>Lamprosema dorisalis</i>	
<i>Phostria cyrisalis</i>	
Papilionoidea	
Lycaenidae	Gossamer-wing Butterflies
Theclinae	
Eumaeini	
<i>Eumaeus godartii</i>	
Nymphalidae	Brush-footed Butterflies
Biblidinae	
<i>Hamadryas feronia</i>	
<i>Hamadryas laodamia saurites</i>	
Heliconiinae	
Heliconiini	
<i>Dryas iulia</i>	
<i>Heliconius cydno</i>	
<i>Heliconius hecale</i>	
<i>Heliconius</i> spp.	
<i>Philaethria dido</i>	
Ithomiinae	
<i>Mechanitis</i> sp.	
Limentidinae	
<i>Adelpha iphicles</i>	
Morphinae	
Brassolini	
<i>Caligo</i> sp.	
Morphini	
<i>Morpho cypris</i>	
<i>Morpho menelaus</i> ssp. <i>amathonte</i>	
<i>Morpho peleides</i>	
Nymphalinae	
Kallimini	
<i>Anartia fatima</i>	
<i>Anartia jatrophae</i>	
Insertae sedis	
<i>Cithaeriasmenander</i> sp.	
Satyrinae	
<i>Pierella helvetia</i>	
<i>Pierella helvina</i>	
Pieridae	
Coliadinae	Sulphurs
<i>Eurema</i> sp.	

	<i>Phoebis rurinae rurinae</i>	
	Papilionidae	Swallowtail Butterflies
	Papilioninae	
	Troidini	
	<i>Paride childrenae childrenae</i>	
	Riodinidae	Metalmark Butterflies
	<i>Rhetus</i> sp.	
	Zygaenoidea	
	Limacodidae	Slug Caterpillar Moths
	<i>Euclea chiriquensis</i>	
	Megalopygidae	
Trichoptera		Caddisflies
	Leptoceridae	
	<i>Nectopsyche</i> sp.	
	<i>Oecetis</i> sp.	
	<i>Triplectides flintorum</i>	
	Hydropsychidae	
	<i>Leptonema albovirens</i>	
	<i>Macronema</i> sp.	
	<i>Smicridea</i> sp.	
	Hydroptilidae	
	Odontoceridae	
	Philopotamidae	
	<i>Chimarra</i> sp.	
	Polycentropodidae	
	<i>Polyplectropus</i> sp.	

Acknowledgments / Agradecimientos:

Asociación de Naturalistas de Sarapiquí (ANASA), Socorro Avila, Molly Baldwin, Jimmy Barrantes, Beth Braker, Carlos de la Rosa, Sarah Dietrich, Paul Foster, Bill Haber, Richard Jacobson, Emily Linkous Franzen, Kevin Loope, Mollie McIntosh, Piotre Naskrecki, Gino Nearn, Ann Ray, Marcía Snyder, Walker Stinnette, Lena Struwe, Ian Swift, Phil Torres, Gabriele Uhl, Orlando Vargas, Ronald Vargas, Ingo Wehrtman, and Heather York.

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