eDNA Expeditions biodiversity survey of Everglades National Park

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1 Introduction

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2 Results

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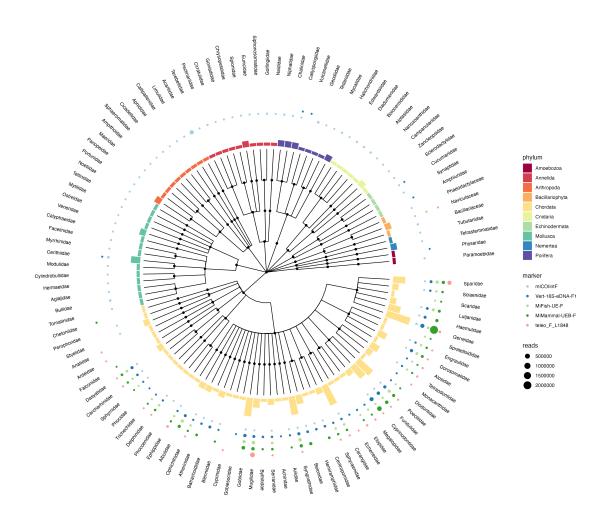


Figure 1: Number of DNA reads and species detected by family

3 Species list

phylum	class	family	species	category
Amoebozoa	Discosea	Paramoebidae	Paramoeba aestuarina	
Amoebozoa	Myxogastrea	Physaridae	Craterium leucocephalum	
Annelida	Clitellata	Naididae	Thalassodrilides gurwitschi	
Annelida	Polychaeta	Eunicidae	Marphysa sanguinea	
Annelida	Polychaeta	Chrysopetalidae	Bhawania goodei	
Annelida	Polychaeta	Goniadidae	Glycinde multidens	
Annelida	Polychaeta	Spionidae	Polydora websteri	
Annelida	Polychaeta	Spionidae	Prionospio steenstrupi	
Annelida	Polychaeta	Cirratulidae	Timarete caribous	
Annelida	Polychaeta	Pectinariidae	Pectinaria gouldii	
Annelida	Polychaeta	Terebellidae	Loimia medusa	
Annelida		Golfingiidae	Golfingia elongata	
Annelida		Siphonosomatidae	Siphonosoma cumanense	
Arthropoda	Copepoda	Acartiidae	Acartia tonsa	
Arthropoda	Hexapoda	Aphididae	Rhopalosiphum padi	
Arthropoda	Hexapoda	Cicadellidae	Macrosteles quadrilineatus	
Arthropoda	Malacostraca	Ampithoidae	Cymadusa compta	
Arthropoda	Malacostraca	Maeridae	Elasmopus nkjaf	
Arthropoda	Malacostraca	Panopeidae	Neopanope packardii	
Arthropoda	Malacostraca	Portunidae	Callinectes sapidus	
Arthropoda	Malacostraca	Portunidae	Portunus sanguinolentus	
Arthropoda	Malacostraca	Sphaeromatidae	Paracerceis caudata	
Arthropoda	Merostomata	Limulidae	Limulus polyphemus	VU
Arthropoda	Pycnogonida	Callipallenidae	Callipallene brevirostris	
Ascomycota	Dothideomycetes	Cladosporiaceae	Cladosporium herbarum	
Ascomycota	Eurotiomycetes	Trichocomaceae	Aspergillus versicolor	
Bacillariophyta	Bacillariophyceae	Bacillariaceae	Cylindrotheca closterium	
Bacillariophyta	Bacillariophyceae	Naviculaceae	Haslea crucigera	
Bacillariophyta	Bacillariophyceae	Naviculaceae	Navicula minima	
Bacillariophyta	Bacillariophyceae	Phaeodactylaceae	Phaeodactylum tricornutum	
Bryozoa	Gymnolaemata	Bugulidae	Bugula rochae	
Bryozoa	Gymnolaemata	Vesiculariidae	Amathia evelinae	
Cercozoa	Chlorarachnea	Chlorarachniaceae	Chlorarachnion reptans	
Chlorophyta	Mamiellophyceae	Dolichomastigaceae	Dolichomastix tenuilepis	
Chlorophyta	Mamiellophyceae	Mamiellaceae	Micromonas pusilla	
Chordata	Ascidiacea	Perophoridae	Ecteinascidia styeloides	
Chordata	Ascidiacea	Styelidae	Botrylloides niger	
Chordata	Ascidiacea	Styelidae	Botrylloides simodensis	
Chordata	Aves	Anatidae	Anas poecilorhyncha	
Chordata	Aves	Ardeidae	Ardea cinerea	

Chordata	Aves	Falconidae	Falco sparverius	
Chordata	Elasmobranchii	Carcharhinidae	Negaprion brevirostris	VU
Chordata	Elasmobranchii	Sphyrnidae	Sphyrna tiburo	ΕN
Chordata	Elasmobranchii	Dasyatidae	Hypanus americanus	NT
Chordata	Elasmobranchii	Dasyatidae	Hypanus rudis	CR
Chordata	Mammalia	Phocidae	Mirounga leonina	Cit
Chordata	Mammalia	Delphinidae	Tursiops truncatus	
Chordata	Mammalia	Phocoenidae	Neophocaena phocaenoides	VU
Chordata	Mammalia	Trichechidae	Trichechus manatus	VU
Chordata	Teleostei	Ephippidae	Chaetodipterus faber	VO
Chordata	Teleostei	Albulidae	Albula glossodonta	VU
Chordata	Teleostei	Albulidae	Albula vulpes	NT
Chordata	Teleostei	Ophichthidae	Myrophis punctatus	INI
Chordata	Teleostei	•		
		Ophichthidae Atherinidae	Myrophis vafer	
Chordata	Teleostei		Atherinomorus stipes	
Chordata	Teleostei	Batrachoididae	Opsanus beta	
Chordata	Teleostei	Batrachoididae	Opsanus tau	
Chordata	Teleostei	Belonidae	Strongylura notata	
Chordata	Teleostei	Belonidae	Strongylura timucu	
Chordata	Teleostei	Belonidae	Tylosurus crocodilus	
Chordata	Teleostei	Hemiramphidae	Chriodorus atherinoides	
Chordata	Teleostei	Blenniidae	Chasmodes bosquianus	
Chordata	Teleostei	Centropomidae	Centropomus undecimalis	
Chordata	Teleostei	Sphyraenidae	Sphyraena barracuda	
Chordata	Teleostei	Sphyraenidae	Sphyraena jello	
Chordata	Teleostei	Carangidae	Caranx crysos	
Chordata	Teleostei	Carangidae	Caranx hippos	
Chordata	Teleostei	Carangidae	Caranx ignobilis	
Chordata	Teleostei	Carangidae	Caranx latus	
Chordata	Teleostei	Carangidae	Oligoplites saurus	
Chordata	Teleostei	Carangidae	Selene vomer	
Chordata	Teleostei	Carangidae	Trachinotus carolinus	
Chordata	Teleostei	Echeneidae	Echeneis naucrates	
Chordata	Teleostei	Alosidae	Brevoortia tyrannus	
Chordata	Teleostei	Dorosomatidae	Harengula humeralis	
Chordata	Teleostei	Dorosomatidae	Harengula jaguana	
Chordata	Teleostei	Dorosomatidae	Opisthonema oglinum	
Chordata	Teleostei	Engraulidae	Anchoa mitchilli	
Chordata	Teleostei	Spratelloididae	Jenkinsia lamprotaenia	
Chordata	Teleostei	Cyprinidae	Carassius auratus	
Chordata	Teleostei	Cyprinodontidae	Cyprinodon variegatus	
Chordata	Teleostei	Cyprinodontidae	Floridichthys carpio	
Chordata	Teleostei	Fundulidae	Adinia xenica	
Chordata	Teleostei	Fundulidae	Fundulus confluentus	
Choracta	1 01003101	. andandae	. andulus confidentus	

Chordata	Teleostei	Fundulidae	Fundulus grandis	
Chordata	Teleostei	Fundulidae	Lucania goodei	
Chordata	Teleostei	Fundulidae	Lucania goodei Lucania parva	
Chordata	Teleostei	Poeciliidae	Belonesox belizanus	
Chordata	Teleostei	Poeciliidae	Gambusia affinis	
Chordata	Teleostei	Poeciliidae	Gambusia ariilis Gambusia holbrooki	
Chordata	Teleostei	Poeciliidae	Gambusia rhizophorae Poecilia latipinna	
Chardata	Teleostei	Poeciliidae	·	
Chordata	Teleostei	Poeciliidae	Poecilia sphenops	
Chordata	Teleostei	Elopidae	Elops saurus	\ /! !
Chordata	Teleostei	Megalopidae	Megalops atlanticus	VU
Chordata	Teleostei	Gerreidae	Diapterus auratus	
Chordata	Teleostei	Gerreidae	Eucinostomus argenteus	
Chordata	Teleostei	Gerreidae	Eucinostomus gula	
Chordata	Teleostei	Gerreidae	Eucinostomus jonesii	
Chordata	Teleostei	Gerreidae	Eucinostomus melanopterus	
Chordata	Teleostei	Gerreidae	Eugerres plumieri	
Chordata	Teleostei	Gerreidae	Gerres cinereus	
Chordata	Teleostei	Gerreidae	Ulaema lefroyi	
Chordata	Teleostei	Haemulidae	Haemulon aurolineatum	
Chordata	Teleostei	Haemulidae	Haemulon parra	
Chordata	Teleostei	Haemulidae	Haemulon plumierii	
Chordata	Teleostei	Haemulidae	Haemulon sciurus	
Chordata	Teleostei	Lutjanidae	Lutjanus argentimaculatus	
Chordata	Teleostei	Lutjanidae	Lutjanus griseus	
Chordata	Teleostei	Scaridae	Nicholsina usta	
Chordata	Teleostei	Sciaenidae	Cynoscion nebulosus	
Chordata	Teleostei	Sciaenidae	Pogonias cromis	
Chordata	Teleostei	Sparidae	Archosargus probatocephalus	
Chordata	Teleostei	Sparidae	Archosargus rhomboidalis	
Chordata	Teleostei	Sparidae	Diplodus kotschyi	
Chordata	Teleostei	Sparidae	Lagodon rhomboides	
Chordata	Teleostei	Gobiesocidae	Gobiesox strumosus	
Chordata	Teleostei	Gobiidae	Gobiosoma bosc	
Chordata	Teleostei	Gobiidae	Gobiosoma ginsburgi	
Chordata	Teleostei	Gobiidae	Gobiosoma robustum	
Chordata	Teleostei	Gobiidae	Lophogobius cyprinoides	
Chordata	Teleostei	Gobiidae	Microgobius gulosus	
Chordata	Teleostei	Gobiidae	Microgobius microlepis	
Chordata	Teleostei	Mugilidae	Mugil cephalus	
Chordata	Teleostei	Mugilidae	Mugil curema	
Chordata	Teleostei	Mugilidae	Mugil rubrioculus	
Chordata	Teleostei	Bythitidae	Ogilbia cayorum	
Chordata	Teleostei	Serranidae	Epinephelus itajara	VU
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Chordata	Teleostei	Serranidae	Epinephelus lanceolatus	
Chordata	Teleostei	Achiridae	Trinectes maculatus	
Chordata	Teleostei	Ariidae	Ariopsis felis	
Chordata	Teleostei	Syngnathidae	Anarchopterus criniger	
Chordata	Teleostei	Syngnathidae	Hippocampus zosterae	
Chordata	Teleostei	Syngnathidae	Syngnathus floridae	
Chordata	Teleostei	Syngnathidae	Syngnathus fuscus	
Chordata	Teleostei	Syngnathidae	Syngnathus schlegeli	
Chordata	Teleostei	Syngnathidae	Syngnathus scovelli	
Chordata	Teleostei	Diodontidae	Chilomycterus schoepfii	
Chordata	Teleostei	Monacanthidae	Stephanolepis cirrhifer	
Chordata	Teleostei	Monacanthidae	Stephanolepis hispida	
Chordata	Teleostei	Tetraodontidae	Sphoeroides maculatus	
Chordata	Teleostei	Tetraodontidae	Sphoeroides parvus	
Chordata	Teleostei	Tetraodontidae	Sphoeroides spengleri	
Chordata		Cheloniidae	Caretta caretta	VU
Cnidaria	Anthozoa	Aiptasiidae	Exaiptasia diaphana	
Cnidaria	Anthozoa	Boloceroididae	Boloceroides mcmurrichi	
Cnidaria	Anthozoa	Diadumenidae	Diadumene leucolena	
Cnidaria	Anthozoa	Edwardsiidae	Edwardsia longicornis	
Cnidaria	Anthozoa	Nanozoanthidae	Nanozoanthus harenaceus	
Cnidaria	Hydrozoa	Zancleopsidae	Zancleopsis dichotoma	
Cnidaria	Hydrozoa	Campanulariidae	Clytia hemisphaerica	
Cnidaria	Hydrozoa	Campanulariidae	Obelia bidentata	
Ctenophora	Tentaculata	Coeloplanidae	Vallicula multiformis	
Echinodermata	Holothuroidea	Synaptidae	Leptosynapta tenuis	
Echinodermata	Holothuroidea	Cucumariidae	Thyonella gemmata	
Echinodermata	Holothuroidea	Sclerodactylidae	Sclerodactyla briareus	
Echinodermata	Ophiuroidea	Amphiuridae	Amphipholis squamata	
Gnathostomulida		Gnathostomulidae	Gnathostomula axi	
Mollusca	Bivalvia	Noetiidae	Arcopsis adamsi	
Mollusca	Bivalvia	Tellinidae	Ameritella mitchelli	
Mollusca	Bivalvia	Mytilidae	Brachidontes exustus	
Mollusca	Bivalvia	Ostreidae	Crassostrea virginica	
Mollusca	Bivalvia	Veneridae	Anomalocardia auberiana	
Mollusca	Bivalvia	Veneridae	Chione cancellata	
Mollusca	Gastropoda	Aglajidae	Philinopsis pusa	
Mollusca	Gastropoda	Bullidae	Bulla arabica	
Mollusca	Gastropoda	Tornatinidae	Acteocina canaliculata	
Mollusca	Gastropoda	Calyptraeidae	Crepidula convexa	
Mollusca	Gastropoda	Facelinidae	Learchis poica	
Mollusca	Gastropoda	Myrrhinidae	Nanuca occidentalis	
Mollusca	Gastropoda	Cerithiidae	Bittiolum varium	
Mollusca	Gastropoda	Cerithiidae	Cerithium eburneum	

Mollusca	Gastropoda	Cerithiidae	Cerithium muscarum
Mollusca	Gastropoda	Modulidae	Modulus modulus
Mollusca	Gastropoda	Cylindrobullidae	Cylindrobulla beauii
Mollusca	Gastropoda	Hermaeidae	Cyerce antillensis
Myzozoa	Dinophyceae	Amphidiniaceae	Amphidinium massartii
Nemertea	Hoplonemertea	Tetrastemmatidae	Tetrastemma elegans
Nemertea	Hoplonemertea	Tetrastemmatidae	Tetrastemma wilsoni
Nemertea	Palaeonemertea	Tubulanidae	Tubulanus riceae
Phoronida		Phoronidae	Phoronis psammophila
Porifera	Demospongiae	Callyspongiidae	Callyspongia diffusa
Porifera	Demospongiae	Callyspongiidae	Callyspongia vaginalis
Porifera	Demospongiae	Chalinidae	Cladocroce burapha
Porifera	Demospongiae	Chalinidae	Haliclona vansoesti
Porifera	Demospongiae	Niphatidae	Gelliodes wilsoni
Porifera	Demospongiae	Niphatidae	Pachychalina tenera
Porifera	Demospongiae	Mycalidae	Mycale fibrexilis
Porifera	Demospongiae	Tedaniidae	Tedania ignis
Porifera	Demospongiae	Halichondriidae	Amorphinopsis fenestrata
Porifera	Demospongiae	Halichondriidae	Halichondria melanadocia
Porifera	Demospongiae	Geodiidae	Geodia neptuni
Porifera	Demospongiae	Vulcanellidae	Poecillastra laminaris
Rhodophyta	Florideophyceae	Rhodomelaceae	Polysiphonia echinata