

Table S1. Counts of families and species represented by new extant species for major groups of organisms in the current survey. Note: The taxonomic groups below are convenient groups of organisms, though they represent several different phylogenetic levels.

Families	Species	Group	
MICROBES (incl. "protozoans")			
6	17	Archaea*	Bacteria Archaea (621)
133	604	Bacteria*	
1	4	Apusozoa	"protozoans" (276)
8	15	Rhizaria*	
4	8	Excavata*	
90	226	Chromalveolata*	
7	17	Amoebozoa	
3	6	Choanozoa*	
FUNGI and PLANTS (incl. some algae)			
216	1121	Fungi*	Fungi (1121)
16	28	Rhodophyta	Plants (excl. fungi, 1744)
6	7	Charophyta	
8	21	Chlorophyta*	
12	114	Pteridophyta	
9	28	Marchantiophyta	
9	19	Bryophyta	
1	2	Anthocerotophyta	
2	11	Gymnospermae	
154	1514	Angiospermae	
ANIMALS			
27	59	Porifera	Non-arthropod invert
34	121	Cnidaria	
3	9	Acoelomorpha	
1	1	Entoprocta	
9	31	Bryozoa	
8	14	Acanthocephala	
61	196	Platyhelminthes	
5	6	Brachiopoda	
109	520	Mollusca*	
32	131	Annelida	
3	5	Rotifera	

3	10	Chaetognatha
1	5	Kinorhyncha
1	1	Loricifera
6	27	Gastrotricha
1	2	Nemertea
1	4	Rhombzoa
1	8	Nematomorpha
68	167	Nematoda
3	16	Tardigrada
188	944	Crustacea*
4	5	Pycnogonida
199	1165	Arachnida
18	59	Myriapoda
9	69	Collembola
6	11	Protura
2	3	Insecta: Thysanura
10	56	Insecta: Ephemeroptera
13	47	Insecta: Odonata
5	30	Insecta: Phasmatodea
21	156	Insecta: Orthoptera
1	2	Insecta: Mantodea
3	16	Insecta: Blattaria
1	8	Insecta: Isoptera
2	2	Insecta: Dermaptera
2	2	Insecta: Embiopetera
8	83	Insecta: Plecoptera
13	73	Insecta: Psocoptera
3	25	Insecta: Phthiraptera
63	660	Insecta: Hemiptera
1	1	Insecta: Zoraptera
2	13	Insecta: Thysanoptera
7	18	Insecta: Neuroptera
2	10	Insecta: Megaloptera
87	2772	Insecta: Coleoptera
3	8	Insecta: Mecoptera
1	1	Insecta: Siphonaptera
67	1302	Insecta: Diptera
18	349	Insecta: Trichoptera
45	1092	Insecta: Lepidoptera
45	1077	Insecta: Hymenoptera
16	34	Echinodermata
9	48	Tunicata
1	1	Myxini
17	79	Chondrichthyes
89	382	Actinopterygii
30	127	Amphibia

elibrates (1333)

Non-insect
arthropods
(2253)

Insects (7806)

Deuterostomes

25	132
7	8
18	36
2123	16001

Reptilia
Aves
Mammalia

s (847)

* indicates groups with some new species which could not be placed to the family level (e.g., fam. Indet., incertae sedis)