

Supplementary Material 7. Number of distinct taxa remained identified at each taxonomic rank according to the method (images = dive, sampling along dive = cl-dive), **(A)** along sedimented slopes (PNG) and **(B)** along volcanic island slopes dominated by hard bottom (Mayotte) with **(C)** a focus on echinoids and asteroids.

(A) Sedimented slopes (PNG)

TAXA	ANNELIDA		ARTHROPODA		CHORDATA		CNIDARIA		ECHINODERMATA		MOLLUSCA	
Taxonomic rank	DIVE	CL-DIVE	DIVE	CL-DIVE	DIVE	CL-DIVE	DIVE	CL-DIVE	DIVE	CL-DIVE	DIVE	CL-DIVE
Phylum	-	-	-	-	-	-	-	-	-	-	-	-
Class	-	-	1	1	3	-	2	-	4	-	4	-
Order	-	-	2	-	10	-	3	2	2	-	1	-
Family	4	6	9	4	8	1	-	-	-	-	4	11
Genus	-	7	10	6	-	5	-	-	-	-	-	22
Species	-	-	3	34	-	16	-	-	-	-	-	5
Morphospecies	2	-	27	-	-	1	-	-	-	-	-	-
Total individuals (n)	289	471	4677	242	432	30	677	8	2417	-	925	351

(B) Volcanic island slopes (Mayotte)

TAXA	ARTHROPODA		CHORDATA		CNIDARIA		ECHINODERMATA		MOLLUSCA		PORIFERA	
Taxonomic rank	DIVE	CL-DIVE	DIVE	CL-DIVE	DIVE	CL-DIVE	DIVE	CL-DIVE	DIVE	CL-DIVE	DIVE	CL-DIVE
Phylum	-	-	-	-	-	-	-	-	-	-	-	-
Class	1	1	2	-	-	-	5	1	3	-	2	1
Order	2	2	11	1	7	-	4	-	-	-	-	-
Family	12	9	17	-	5	2	10	4	4	16	2	-
Genus	17	6	7	1	6	8	17	11	1	6	3	2
Species	9	14	1	3	1	2	2	12	2	1	1	1
Morphospecies	10	-	24	1	-	-	6	-	9	-	2	-
Total individuals (n)	535	116	688	16	6004	25	1070	57	3501	59	2773	12

(C) Volcanic island slopes (focus on echinoderms)

ECHINODERMATA	ECHINOIDEA		ASTEROIDEA	
Taxonomic rank	DIVE	CL-DIVE	DIVE	CL-DIVE
Class	-	-	-	-
Order	2	-	1	-
Family	4	-	6	1
Genus	9	4	8	7
Species	-	10	2	2
Morphospecies	2	-	4	-
Total individuals (n)	452	40	243	14

Data accessibility:

Sampling datasets used for the analyses are available in supplementary materials 5 and 6 and databases of the physical samples are available in the *Muséum National d'Histoire Naturelle (Paris)* databases, at the following open access address: <https://science.mnhn.fr>

Image datasets are available in supplementary materials 5 and 6, and the raw annotations data from the Biigle 2.0 web platform, on request at the following address: Karine.Olu@ifremer.fr