

Please, send this questionnaire to: STE project, Marine Science Group - Department of Evolutionary and Experimental Biology, University of Bologna, Via F. Selmi 3, I-40126 Bologna Italy
www.STEproject.org

Surname	Name
Complete address	
E-mail	Dive Certification (level and training organization)
Dive site	Nearest town
Diving Center	
Dive date	Maximum depth (m)
Depth where yuo spent most of your dive (m)	Water temperature (°C)
Actual bottom time (minutes)	Dive starting time (0-24)

Environment where yuo spent most of your dive (choose one) ☐ coral reef ☐ sandy bottom ☐ other_____

Please select the organisms you have seen in the checklist below estimating the frequency of their occurrence. Your instructor can help you!

	RARE	FREQUENT	VERY FREQUENT
SPONGES			
1 - tube sponge (<i>Siphonochalina</i> sp., Demospongiae)	☐ 1-2	☐ 3-10	☐ more than 10
Other sponges	☐ 1-2	☐ 3-10	☐ more than 10
COELENTERATES, CORALS			
2 - fire coral (<i>Millepora</i> sp., Milleporina, Hydrozoa)	☐ 1-10	☐ 11-100	☐ more than 100
3 - leather coral (<i>Sarcophyton</i> sp., Alcyonacea, Anthozoa)	☐ 1-5	☐ 6-15	☐ more than 15
4 - soft tree coral (<i>Dendronephthya</i> sp., Alcyonacea, Anthozoa)	☐ 1-10	☐ 11-100	☐ more than 100
5 - sea fan (<i>Subergorgia hicksoni</i> , Gorgonacea, Anthozoa)	☐ 1-3	☐ 4-10	☐ more than 10
6 - red sea fans (Melithaeidae, Gorgonacea, Anthozoa)	☐ 1-5	☐ 6-15	☐ more than 15
7 - sea whips (Ellisellidae, Gorgonacea, Anthozoa)	☐ 1-2	☐ 3-6	☐ more than 6
8 - sea carpet host anemones (Stichodactylidae, Actiniaria, Anthozoa)	☐ 1-3	☐ 4-10	☐ more than 10
9 - plating acropora (<i>Acropora</i> sp., Scleractinia, Anthozoa)	☐ 1-2	☐ 3-6	☐ more than 6
10 - porcupine coral (<i>Seriatopora hystrix</i> , Scleractinia, Anthozoa)	☐ 1-5	☐ 6-15	☐ more than 15
11 - bubble coral (<i>Plerogyra</i> sp., Scleractinia, Anthozoa)	☐ 1-5	☐ 6-15	☐ more than 15
12 - mushroom corals (Fungiidae, Scleractinia, Anthozoa)	☐ 1-5	☐ 6-15	☐ more than 15
13 - lettuce coral (<i>Turbinaria</i> sp., Scleractinia, Anthozoa)	☐ 1-5	☐ 6-15	☐ more than 15
14 - pineapple corals (Faviidae, Scleractinia, Anthozoa)	☐ 1-2	☐ 3-6	☐ more than 6
15 - black coral (<i>Antipathes</i> sp., Antipatharia, Anthozoa)	☐ 1-2	☐ 3-6	☐ more than 6
Other corals	☐ 1-5	☐ 6-25	☐ more than 25
ANELLIDA, SEDENTARY WORMS			
16 - Christmas tree worm (<i>Spirobranchus</i> sp., Polychaeta)	☐ 1-5	☐ 6-15	☐ more than 15
Other sedentary worms	☐ 1-5	☐ 6-15	☐ more than 15
MOLLUSCS, GASTROPODS (SEA SLUGS)			
17 - cowries (Cypraeidae, Prosobranchia)	☐ 1	☐ 2-3	☐ more than 3
18 - spanish dancer (<i>Hexabranhus sanguineus</i> , Opisthobranchia)	☐ 1	☐ 2-3	☐ more than 3
19 - coriacea (<i>Chromodoris quadricolor</i> , Opisthobranchia)	☐ 1-2	☐ 3-4	☐ more than 4
Other sea slugs	☐ 1	☐ 2-3	☐ more than 3
MOLLUSCS, BIVALVES			
20 - tridacnae (<i>Tridacna</i> sp.)	☐ 1-2	☐ 3-6	☐ more than 6
21 - wing oyster (<i>Pteria</i> sp.)	☐ 1-5	☐ 6-15	☐ more than 15
Other bivalves	☐ 1-4	☐ 5-10	☐ more than 10
MOLLUSCS, CEPHALOPODS			
22 - squids (Sepiidae)	☐ 1-2	☐ 3-4	☐ more than 4
23 - bigfin reef squid (<i>Sepioteuthis</i> sp.)	☐ 1	☐ 2-3	☐ more than 3
Other cephalopods	☐ 1-2	☐ 3-4	☐ more than 4
ARTHROPODS, CRUSTACEANS, DECAPODS			
24 - banded boxer shrimp (<i>Stenopus hispidus</i>)	☐ 1	☐ 2-3	☐ more than 3
25 - hermit crabs (Diogenidae)	☐ 1	☐ 2-3	☐ more than 3
Other decapods	☐ 1	☐ 2-3	☐ more than 3

	RARE	FREQUENT	VERY FREQUENT
ECHINODERMS, CRINOIDS (SEA LILIES)			
26 - sea lilies (Crinoidea)	☐ 1-5	☐ 6-15	☐ more than 15
ECHINODERMS, HOLOTHURIANS (SEA CUCUMBERS)			
27 - sea cucumbers (Holothuroidea)	☐ 1-2	☐ 3-10	☐ more than 10
ECHINODERMS, ASTEROIDS (STARFISHES)			
28 - pearl red star (<i>Fromia</i> sp.)	☐ 1	☐ 2-3	☐ more than 3
29 - spiny starfish (<i>Acanthaster planci</i>)	☐ 1-2	☐ 3-6	☐ more than 6
Other starfishes	☐ 1-2	☐ 3-5	☐ more than 5
ECHINODERMS, ECHINOIDS (SEA URCHINS)			
30 - fire urchin (<i>Asthenosoma</i> sp.)	☐ 1-2	☐ 3-4	☐ more than 4
31 - pencil urchin (<i>Phyllacanthus</i> sp.)	☐ 1-3	☐ 4-10	☐ more than 10
Other sea urchins	☐ 1-3	☐ 4-7	☐ more than 7
VERTEBRATES, BONY FISHES			
32 - giant moray (<i>Gymnothorax javanicus</i> , Anguilliformes)	☐ 1	☐ 2-3	☐ more than 3
33 - needlefishes (Syngnathidae, Syngnathiformes)	☐ 1-2	☐ 3-4	☐ more than 4
34 - squirrelfish (<i>Sargocentron</i> sp., Beryciformes)	☐ 1-5	☐ 6-15	☐ more than 15
35 - groupers (Epinephelinae, Perciformes)	☐ 1-5	☐ 6-15	☐ more than 15
36 - blackspotted rubberlip (<i>Plectorhinchus gaterinus</i> , Perciformes)	☐ 1-3	☐ 4-10	☐ more than 10
37 - humpback batfish (<i>Platax</i> sp., Perciformes)	☐ 1-10	☐ 11-100	☐ more than 100
38 - red bass (<i>Lutjanus bohar</i> , Perciformes)	☐ 1-10	☐ 11-100	☐ more than 100
39 - glassfishes (Pempheridae, Perciformes)	☐ 1-100	☐ 101-1000	☐ more than 1000
40 - goatfishes (Mullidae, Perciformes)	☐ 1-10	☐ 11-100	☐ more than 100
41 - map angel (<i>Pomacanthus maculosus</i> , Perciformes)	☐ 1	☐ 2-3	☐ more than 3
42 - butterflyfishes (Chaetodontidae, Perciformes)	☐ 1-5	☐ 6-15	☐ more than 15
43 - longnose hawkfish (<i>Oxycirrhites typus</i> , Perciformes)	☐ 1	☐ 2-3	☐ more than 3
44 - Red Sea clownfish (<i>Amphiprion bicinctus</i> , Perciformes)	☐ 1-3	☐ 4-15	☐ more than 15
45 - humphead wrasse - Napoleon fish (<i>Cheilinus undulatus</i> , Perciformes)	☐ 1	☐ 2-3	☐ more than 3
46 - parrotfishes (Scaridae, Perciformes)	☐ 1-5	☐ 6-25	☐ more than 25
47 - barracuda (<i>Sphyræna</i> sp., Perciformes)	☐ 1-5	☐ 6-25	☐ more than 25
48 - Sohal surgeonfish (<i>Acanthurus sohal</i> , Perciformes)	☐ 1-5	☐ 6-15	☐ more than 15
49 - caranxes (Carangidae, Perciformes)	☐ 1-5	☐ 6-15	☐ more than 15
50 - lionfish (<i>Pterois</i> sp., Scorpaeniformes)	☐ 1-5	☐ 6-15	☐ more than 15
51 - spotted flatheads (Platycephalidae, Scorpaeniformes)	☐ 1-2	☐ 3-4	☐ more than 4
52 - titan triggerfish (<i>Balistoides viridescens</i> , Tetraodontiformes)	☐ 1-2	☐ 3-4	☐ more than 4
53 - boxfishes (Ostraciidae, Tetraodontiformes)	☐ 1-2	☐ 3-4	☐ more than 4
54 - blowfishes (Tetraodontidae, Tetraodontiformes)	☐ 1-3	☐ 4-10	☐ more than 10
55 - porcupinefishes (Diodontidae, Tetraodontiformes)	☐ 1	☐ 2-3	☐ more than 3
Other bony fishes	☐ 1-10	☐ 11-65	☐ more than 65
VERTEBRATES, CARTILAGE FISHES, SHARKS			
56 - sharks (Squaliformes)	☐ 1	☐ 2-3	☐ more than 3
VERTEBRATES, CARTILAGE FISHES, RAYS AND TORPEDOS			
57 - blue-spotted stingray (<i>Taeniura lymma</i>)	☐ 1-2	☐ 3-6	☐ more than 6
58 - manta (<i>Manta</i> sp.)	☐ 1	☐ 2-3	☐ more than 3
59 - torpedo (<i>Torpedo</i> sp.)	☐ 1	☐ 2	☐ more than 2
Other rays and torpedos	☐ 1	☐ 2-4	☐ more than 4
VERTEBRATES, REPTILES, TURTLES			
60 - turtles (Cheloniidae)	☐ 1	☐ 2-3	☐ more than 3
VERTEBRATES, MAMMALS, CETACEANS			
61 - dolphins (Delphinidae)	☐ 1-2	☐ 3-6	☐ more than 6
Attention: please indicate the possible presence of the following negative conditions			
62 - PARTIALLY OR TOTALLY DEAD CORALS	☐ 1-10	☐ 11-100	☐ more than 100
63 - BLEACHED CORALS	☐ 1-10	☐ 11-100	☐ more than 100
• - BROKEN CORALS	☐ 1-10	☐ 11-100	☐ more than 100
• - SEDIMENT COVERED CORALS	☐ 1-10	☐ 11-100	☐ more than 100
• - LITTER	☐ 1	☐ 2-10	☐ more than 10
Attention: please give information about snorkelers and scuba divers behaviour			
How many snorkelers and scuba divers were present on the dive site?	☐ 1-25	☐ 26-50	☐ more than 50
How many snorkelers and scuba divers contacts with the reef did you see during your dive? (both voluntary or involuntary contacts)	☐ 1-5	☐ 6-10	☐ more than 10