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# **Fauna of Button Island National Parks, South Andamans, Bay of Bengal**

**D.V. RAO  
D.R.K. SASTRY**



**ZOOLOGICAL SURVEY OF INDIA**

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**RECORDS  
OF THE  
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**Fauna of Button Island National parks,  
South Andamans, Bay of Bengal**

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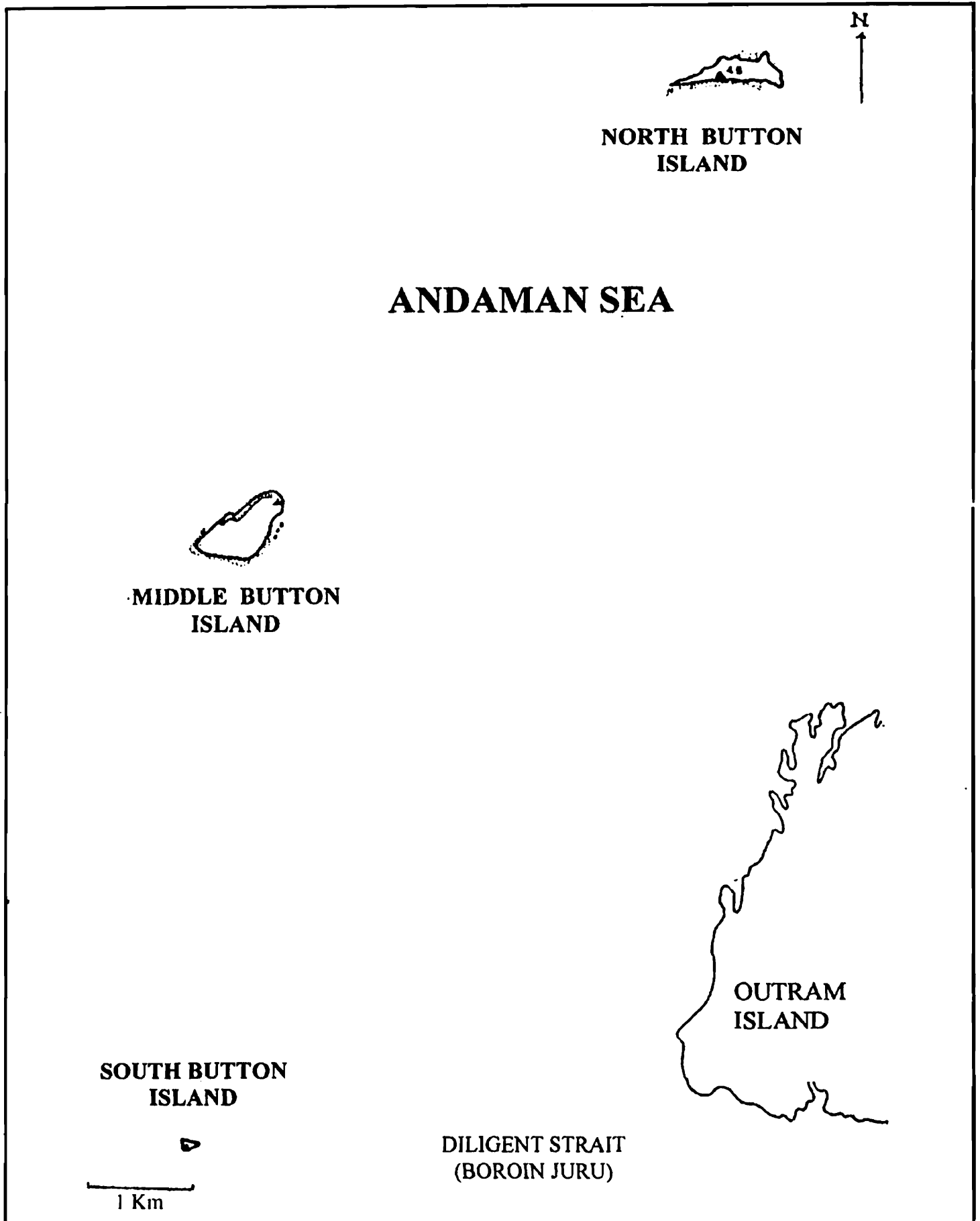
**CONTENTS**

INTRODUCTION .....	1
TOPOGRAPHY OF THE ISLANDS .....	3
Vegetation : .....	3
FAUNA .....	4
ANNEXURE-I .....	7
LIST OF FAUNA OF BUTTON ISLAND NATIONAL PARKS .....	7
ACKNOWLEDGEMENTS .....	45
REFERENCE .....	45
PLATES .....	47-54

## INTRODUCTION

Andaman and Nicobar Islands in the Bay of Bengal are endowed with a rich biodiversity in the various ecosystems of both terrestrial and marine environments. Because of long temporal and spatial separation, the terrestrial fauna and flora, show greater percentage of endemics. Due to the presence of these special faunal and floral elements and rich coral beds with their associated fauna, several Protected Areas were declared for conservation of the varied habitats and their biodiversity. As on date there are 96 Sanctuaries, nine National Parks including two Marine National Parks and a Biosphere Reserve. The North Button Island, Middle Button Island and South Button Island were designated (*vide* notification No. CF/HQ/12(G)/2/162 dated 13th November 1979) as National Parks based on preliminary observations and assessments. However, there are no comprehensive accounts of fauna particularly of the marine environment around the Protected Areas. The three sanctuaries of North-, Middle- and South Button Islands located at northern end of the Ritchie's Archipelago are one such group. There are also many other remote areas in the Andaman and Nicobar archipelago, which are not thoroughly explored for their biological diversity and importance. Their remoteness, lack of easy accessibility and tiny size of many islands, did not evoke much interest they deserve or permit attempts to study their faunal wealth and ecology.

Pande *et al.* (1991) gave a cursory account of fauna and Chaudhari (1987 cited by Pande *et al.* 1991) of flora of the forests of the Protected Areas. However, in many cases the information on the marine fauna of these islands is meager. Comprehensive survey of these islands for their ecology and faunal wealth will considerably help in the conservation of the fragile ecosystems and also creating awareness in people of their importance. Dr Kailash Chandra and his team made a general survey of these National Parks in March 1996. Part of the information is from his unpublished tour report. Later an underwater faunistic survey of the marine ecosystem of these islands was undertaken by one of us (DVR) during January 2003 and March 2004. The following account based on the tour report of Dr Chandra and the later surveys (DVR) is limited to field identification, particularly of marine fauna, because of restrictions to collect important groups, which are under Wildlife Schedules. Very few faunal representatives were collected and main stress was given to ecological observations by snorkeling. Underwater Videography was made use of for inventorying various faunal components like corals *etc.*, which could not be collected. The account is by no means complete or exhaustive, as there is still much scope to study deeper coastal areas, and also



Notional Map of North, Middle, and South Button Island National Parks

the different terrestrial and marine habitats. This is particularly true with corals, gorgonaceans, alcyonaceans, holothurians, fish *etc.*

## TOPOGRAPHY OF THE ISLANDS

The North, Middle and South Button Island National Parks are located in the open sea Northeast of South Andaman Island, forming an arc in the northern part of Ritchie's Archipelago (Fig. 1.). The islands are about 70 km from Port Blair and over 10 to 13 kms from Havelock by motorboat. Rough weather and high wave action throughout the year make the islands not easily accessible. The sandy beaches of North and Middle Button Islands are ideal for turtle nesting. There are no perennial water bodies but only small rainfed streams and ditches in low-lying areas.

North Button Island is located far northeast between latitudes  $12^{\circ} 18' 46''$  and  $12^{\circ} 18' 58''$  N and longitudes  $93^{\circ} 03' 52''$  and  $93^{\circ} 04' 25''$  E. The island is narrow, stretched in east-west direction, with a land area of about 0.44 sq km. The central part of the island is hilly with a maximum height of 49 m and sloping towards east.

The Middle Button Island is about one nautical mile from North Button Island and about less than a nautical mile from South Button Island. It is located between latitudes  $12^{\circ} 16' 19''$  and  $12^{\circ} 16' 39''$  N and longitudes  $93^{\circ} 01' 25''$  and  $93^{\circ} 01' 51''$  E. The island is irregular in shape extending in the NE-SW direction particularly the northern coast. The land area is about 0.64 sq km. The island slopes from southwestern part to an elevation of about 33 m towards the lighthouse on the northeastern point with huge rocks. The rest of the coast is sandy.

The South Button Island is located between latitudes  $12^{\circ} 13' 23''$  and  $12^{\circ} 13' 26''$  N and longitudes  $93^{\circ} 01' 19''$  and  $93^{\circ} 01' 23''$  E. The island is the smallest of the three and almost triangular in shape with a nearly straight western coast in the N-S direction, the other two sides narrowing towards the east. The land area is approximately 0.03 sq km with a maximum elevation of 21 m. The island is almost rocky with boulders and loose surface soil. Since the island slopes very steeply all around, the intertidal area is negligible. The wave action is very high all around the island. It is extremely difficult to anchor the boat near the island. The northeast side of the island is with huge isolated boulders and flat rocky platforms. A lighthouse is on the elevated point of the island.

### Vegetation :

Due to small area and hilly terrain for the most part, the forest component is not significant. The thin vegetation on the islands is a mixture of tropical semi-evergreen and deciduous

type. There are patches of littoral forest and mangrove vegetation around the islands. The central part of the forest of the islands is dominated by *Manikara littoralis*, *Terminalia bialata*, *T. catappa*, *T. procera*, *Planchonia valida*, *Dipterocarpus* spp., *Thespesia populnea*, *Prema integrifolia*, *Guttarda speciosa*, *Manisuris* spp., *Ficus* spp., *Begonia* spp., *Dendrobium* spp., *Derris indica* and *Sterculia* spp. The littoral forest of the Middle and North Button Islands consists of scattered patches of *Hibiscus liliaceus*, *Barringtonia asiatica*, *Ipomoea pescaprae*, *Thuarea involuta*, *Panicum repens*, *Cassytha filiformes*, *Scaevola sericea*, *Pandanus furcatus* etc. The vegetation of the littoral forest is not well developed due to spray from heavy wave action. North Button Island has comparatively rich vegetation of evergreen rain forest with deciduous trees.

The mangrove belts are narrow and patchy. *Rhizophora* is the common mangrove plant of the South Button Island while *Rhizophora* and *Bruguiera parviflora* are common on North and Middle Button Islands. In the interstitial spaces of the boulders all around the South Button Island, the littoral forest consists of a few patches of the mangrove plant *Rhizophora apiculata*.

## FAUNA

The fauna of the islands of the National Parks is diverse. A total of 887 species of fauna including marine and terrestrial components are recorded from the button islands during the surveys. These include several groups which are summarised in Table 1 with a detailed list in Annexure- I. Because of the sparse forest cover, the fauna associated with the terrestrial ecosystem is not rich but includes rare and endemic species. Endemic species and species protected under Wild Life Schedules are noted in the list. Water Monitor, Leatherback and Olive Ridley Turtles, Andaman Wild Pig and Spotted Deer are some of the endangered animals of these islands. South Button Island has congenial habitats for edible swiftlet nests.

The diversity and density of the marine faunal components are higher than the terrestrial components so far known. Birds and insects are the major terrestrial components. Birds of 40 species are encountered on the islands. Of the 63 species of insects, lepidopterans are the most dominant with 35 species followed by bugs (6 species) and bees and wasps (5 species). Due to presence of extensive coral reefs around the islands, the marine environment supports a rich fauna of more than 750 species. Of these the fishes are the dominant group with about 482 species followed by mollusks (101 species), crustaceans (68 species) and echinoderms (30 species). Among the echinoderms, Holothuroidea are represented by a maximum of 16 species, the rest belonging to Asteroidea, Ophiuroidea and Echinoidea. Crinoids are also present but could not be identified since they were very much damaged during collection from coral colonies and crevices.

Table. 1. Summary of Fauna of the Button Island National Parks.

	Group	No. of species
<b>Porifera</b>		13
<b>Cnidaria- Anthozoa</b>	Hexacorallia (Hard corals)	50
	Octocorallia (Soft Corals)	13
<b>Mollusca</b>	Polyplacophora	2
	Gastropoda	82
	Bivalvia	16
	Cephalopoda	1
<b>Annelida</b>	Polychaeta	14
<b>Arthropoda</b>	Crustacea	68
	Insecta	63
<b>Echinodermata</b>	Asteroidea	4
	Ophiuroidea	7
	Echinoidea	3
	Holothuroidea	16
<b>Chordata</b>	Chondrichthyes	23
	Osteichthyes	459
	Reptilia	7
	Aves	40
	Mammalia	6
	<b>Total</b>	<b>887</b>

The rocky shores of the islands experience heavy wave action. The extensive sandy and rocky intertidal habitats support the common species of worms, molluscs including spiny chitons, limpets and neritids and the brachyuran crabs. On the other hand, the extensive fringing coral reefs around the islands form an important habitat for a large number of associated faunal components. The fishes, worms, echinoderms and mollusks, however, constitute the major groups of animals occurring in association with the reef ecosystem.

As elsewhere, the most common and abundant reef building corals around these islands consist of the species of *Pocillopora*, *Stylophora*, *Montipora*, *Goniopora*, *Acropora* etc. There occur also a few patches of *Porites*, *Psammocora*, *Favites*, *Goniastrea*, *Fungia*, *Galaxia*, *Lobophyllia* etc. The *Acropora aspera* and *A. robusta* are the most dominant species spreading over hundreds of square meters like a thick forest and cover about 60% of the reef area, up to 2 m down the reef slope. The Middle Button Island has extensive patches of corals from shallow to 10-13 m with about 70% of live coral cover.

Next to branching corals the boulder forms, *Porites lutea* and *P. lobata* dominate growing to a large size. Large patches of Soft corals are represented by species of *Lobophytum*, *Sarcophyton*, *Sinularia* and *Cladiella*. Large sized sea anemones abound among the coral heads. Featherworms and Christmas tree worms of Polychaeta, boring crabs and oysters inhabit crevices and holes in the boulder corals particularly *Porites lutea*. Large sized giant clams *Tridacna maxima* are found on reef and deep sandy bottom. The Common dolphins, *Delphinus delphis*, are found in the sea off the islands. Among the decapods, the xanthids are quite conspicuous in their density, while *Panulirus versicolor* is the common lobster found in large numbers under coral blocks and rock. Of the molluscan fauna species of gastropods like limpets, *Trochus*, *Turbo*, *Nerita*, *Lambis* and *Cypraea* and bivalves like rock oysters, pearl oysters, winged oysters and clams are very common. The polyplacophoran spiny chitons also form an important component while the octopuses are seen frequently.

Only a few echinoderm species could be identified in the field and their numbers are few except for the ophiuroid, *Ophiocoma*, the echinoid *Diadema* and a few holothurians. A large number of crinoids were encountered but could not be collected because of wave action or identified in the field since identification demand examination of the specimens under a microscope. There is no Crown-of-Thorns infestation on the reefs. Only one example of *Acanthaster planci* was noticed on the corals of North Button Island. The most common of the echinoderm fauna are the holothurians *Actinopyga echinites*, *Bohadschia marmorata*, *B. argus*, *Holothuria atra*, *H. scabra* etc.

Among the vertebrates, the fish form the major dominant element around the reefs of the islands. The most common among them are damsels, butterflyfishes, cardinalfishes, angelfishes, groupers, snappers, ceasionids, labrids, barracudas, balistids and puffers. Large sharks were seen moving off the reefs. The large sea anemones host the colourful symbiotic clownfishes, *Amphiprion peridarian*, *A. clarkii*, *A. fraenatus* and *A. ephippium*. The hawk fishes *Cirrhitus pinnulatus* and *Paracirrhites forsteri*, leather jackets *Oxymonacanthus longirostris* are found fairly in large numbers among *Acropora* thickets. Amphibious sea snakes of the genus *Laticauda* are common in the waters.

The marine environment of Middle and North Button islands is almost similar and the sandy, rocky and reef ecosystems support a large number of faunal components. The sandy beaches of Middle and North Button islands offer an ideal habitat for nesting of sea turtles like Leatherbacks and Olive Ridleys. These two species are regular visitors to the beaches for nesting.

Because of huge steep boulders and suddenly sloping shoreline, the South Button Island has a very limited intertidal region. The corals are not abundant but diversity is high. Large plate corals, nephtid soft corals and gorgonians grow on the vertical rock surfaces. Due to severe wave action mostly digitate type corals such as *Acropora digitifera*, *A. gemmifera*, *Pocillopora damicornis*, *P. verrucosa*, plate type forms such as *Acropora cytherea*, *A. hyacinthus*, *A. nasuta*, *A. clathrata*, boulder forms like *Porites* sp., *Montipora digitata*, *Acanthastrea* sp., *Symphyllia* sp., *Favia fava*, *F. stelligera*, *Goniastrea* sp. and encrusting

forms like *Pavona venosa*, *Montastrea* sp. are present. The heavy wave action restricts the fauna to sessile and strongly clinging forms such as limpets, chitons and oysters and a large number of crevice dwelling forms such as the crabs, *Grapsus*, *Portunus* and *Thalamita* spp. Species of *Nerita*, *Trochus*, *Turbo*, *Lambis*, Giant clams, oysters, are also found among the coral heads. The echinoderm fauna is poorly represented. Only one species of *Holothuria* and *Stichopus chloronotus* was found in rock pools and *Holothuria atra* on sandy patches. Echinoids belonging to the species *Diadema setosum* were found in holes and crevices of coral rocks. The submerged rock walls of the island and wide rock crevices are with a variety of coral formations. Large numbers of sealillies (unidentified) are associated with plate and boulder corals. Sea stars, *Linckia laevigata* and *Asterina sarasini* are also encountered. Amphibious sea snakes, *Laticauda colubrinus* are freely moving around coral blocks. Fish are the most dominant component of the reef area of which Labrids, Scarids, Chaetodontids, Pomacentrids, Acanthurids are more in number.

The main threat to the three National Parks is from poachers as in the case of other localities of these islands. The wealth of these islands includes luxuriant coral beds with commercially important species like shells, sea cucumbers, fish and nesting turtles particularly at the Middle and North Button Islands due to remoteness. During 1996 the islands were having rich populations of holothurians and molluscs. But the recent investigations during 2003 and 2004 clearly indicated deterioration of the reef ecosystem and decline of reef-associated fauna, particularly echinoderms and molluscs. Because of remoteness, lack of surveillance and inaccessibility, poaching for holothurians and shells possibly could not be controlled resulting in the depletion of their populations. More vigilance and surveillance of these National Parks is the need of the hour for conservation of their faunal wealth. In general, the scattered nature and small area with added shortage of resources and personnel are the limiting factors for posting of guards for surveillance of the Protected Areas. The three Button Island National Parks are no exception.

## ANNEXURE-I

### LIST OF FAUNA OF BUTTON ISLAND NATIONAL PARKS

Phylum PORIFERA

Class DEMOSPONGIA

1. *Phyllospongia foliascens* (Pallas)
2. *Paratetilla bacca* (Selenka)
3. *Theonella* sp.
4. *Dysiadea* sp.
5. *Spirastrella* sp.
6. *Hyalonema indicum* Schulze
7. *Hyalonema aculeatum* Schulze

8. *Gelloides fibulatus* (Carter)
9. *Bubaris columnata* Burton
10. *Stelletta cavernosa* (Dendy)
11. *Stelletta orientalis* Thiele
12. *Tetilla cranium* (Müller)
13. *Tethya repens* (Schmidt)

Phylum CNIDARIA

Class ANTHOZOA

Subclass HEXACORALLIA

Order SCLERACTINIA (Schedule I, Part IV)

Family POCILLOPORIDAE

1. *Pocillopora damicornis* Linnaeus
2. *Pocillopora verrucosa* (Ellis & Solander)
3. *Seriatopora hystrix* (Dana)
4. *Seriatopora stellata* Quelch
5. *Stylophora pistillata* Esper

Family ACROPORIDAE

6. *Acropora digitifera* (Dana)
7. *Acropora gemmifera* (Brook)
8. *Acropora cytherea* (Lamarck)
9. *Acropora nasuta* (Dana)
10. *Acropora clathrata* (Brook)
11. *Acropora humiliata* (Dana)
12. *Acropora hyacinthus* (Dana)
13. *Acropora muricata* (Linnaeus)
14. *Acropora nobilis* (Dana)
15. *Acropora robusta* (Dana)
16. *Acropora secale* (Studer)
17. *Montipora composita* Crossland
18. *Montipora digitata* (Dana)
19. *Montipora foliosa* (Pallas)
20. *Montipora peltiformis* Bernard
21. *Montipora tortuosa* (Dana)

Family FUNGIIDAE

22. *Ctenactis echinata* (Pallas)
23. *Fungia repanda* Dana
24. *Fungia danai* MED & H
25. *Fungia fungites* (Linnaeus)

Family EUPHYLLIDAE

26. *Euphyllia glabrescens* (Chamisso & Eysenhardt)

Family DENDROPHYLLIDAE

27. *Turbinaria peltata* (Esper)

Family PORITIDAE

28. *Goniopora stokesi* MED & H
29. *Goniopora* sp.
30. *Porites lobata* Dana
31. *Porites lichen* Dana
32. *Porites lutea* MED & H
33. *Porites porites* (Pallas)
34. *Porites solida* (Forsk.)

Family FAVIIDAE

35. *Favia abdita* (Ellis & Solander)
36. *Favia halicora* (Ehrenberg)
37. *Favia fava* (Forsk.)
38. *Favia stelligera* (Dana)
39. *Favia pallida* (Dana)
40. *Leptoria phrygia* (Ellis & Solander)
41. *Platygyra sinensis* (MED & H)

Family OCULINIDAE

42. *Galaxea fascicularis* (Linnaeus)

Family SIDERASTREIDAE

43. *Psammocora contigua* (Esper)

## Family AGARICIIDAE

- 44. *Coeloseris mayeri* Vaughan
- 45. *Pachyseris rugosa* (Lamarck)
- 46. *Pavano clavus* (Dana)
- 47. *Pavona venosa* (Thunberg)

## Family MUSSIDAE

- 48. *Lobophyllia corymbosa* (Forsskal)
- 49. *Symphyllia nobilis* (Dana)
- 50. *Symphyllia recta* (Dana)

## Subclass OCTOCORALLIA

## Order HELIOPORACEA

## Family HELIOPORIDAE

- 51. *Heliopora caerulea* Pallas

## Order ALCYONACEA

## Family ALCYONIIDAE

- 52. *Cladiella australis* (Macfadyen)
- 53. *Lobophytum crassum* von Marenzeller
- 54. *Lobophytum pauciflorum* (Ehrenberg)
- 55. *Lobophytum* sp.
- 56. *Sarcophyton crassocaule* Moser
- 57. *Sarcophyton trocheliophorum* von Marenzeller
- 58. *Sarcophyton* sp.
- 59. *Sinularia gibberosa* Tixier-Durivault
- 60. *Sinularia* sp.

## Family NEPHTHEIDAE

- 61. *Capnella* sp.
- 62. *Nephthea* sp.
- 63. *Dendronephthya* sp.

## Phylum MOLLUSCA

## Class PLOYPLACOPHORA

## Order NEOLORICATA

Family CHITONIDAE

1. *Acanthopleura spinger* (Sowerby)
2. *Chiton granoradiatus* Leloup

Class GASTROPODA  
 Order ARCHEOGASTROPODA  
 Family HALIOTIDAE

3. *Haliotis (Haliotis) asinina* Linnaeus
4. *Haliotis sp.*

Family TROCHIDAE

5. *Angaria delphinus* (Linnaeus)
6. *Tectus fenestratus* (Gmelin)
7. *Trochus (Trochus) maculatus* Linnaeus
8. *Trochus (Trochus) niloticus* Linnaeus (Schedule IV)

Family TURBINIDAE

9. *Turbo (Marmorostoma) brunneus* (Röding)
10. *Turbo (Marmorostoma) chrysostomus* Linnaeus
11. *Turbo (Turbo) marmoratus* Linnaeus (Schedule IV)
12. *Turbo (Turbo) petholatus* Linnaeus

Family NERITIDAE

13. *Nerita (Amphinerita) articulata* Gould
14. *Nerita (Amphinerita) insculpta* Recluz
15. *Nerita (Theliostyla) albicilla* Linnaeus
16. *Nerita (Theliostyla) chamaeleon* Linnaeus
17. *Nerita (Theliostyla) costata* Linnaeus
18. *Nerita (Theliostyla) patula* Recluz
19. *Nerita (Theliostyla) planospira* Anton
20. *Nerita (Theliostyla) squamulata* Le Guillou
21. *Neritina (Vittina) variegata* Lesson

Order MESOGASTROPODA  
 Family LITTORINIDAE

22. *Littorina (Littorinopsis) scabra* (Linnaeus)

## Family ARCHITECHTONICIDAE

23. *Architectonica perspectiva* (Linnaeus)

## Family CERITHIIDAE

24. *Cerithium nodulosum* Bruguiere  
25. *Clypeomorus purpurastoma* Houbrick  
26. *Rhinoclavis vertagus* (Linnaeus)

## Family STROMBIDAE

27. *Lambis (Harpago) chiragra chiragra* (Linnaeus) (Schedule IV)  
28. *Lambis (Lambis) lambis* (Linnaeus)  
29. *Lambis (Millepes) scorpius indomaris* Abbott  
30. *Strombus (Dolomena) plicatus pulchellus* Reeve  
31. *Strombus (Dolomena) variabilis variabilis* Swainson  
32. *Tibia fuscus* Linnaeus

## Family OVULIDAE

33. *Calpurinus (Calpurnus) verrucosus* (Linnaeus)

## Family CYPRAEIDAE

34. *Cypraea argus* Linnaeus  
35. *Cypraea annulus* Linnaeus  
36. *Cypraea arabica* Linnaeus  
37. *Cypraea asellus* Linnaeus  
38. *Cypraea caurica* Linnaeus  
39. *Cypraea caputserpentis* Linnaeus  
40. *Cypraea erosa* Linnaeus  
41. *Cypraea globulus* Linnaeus  
42. *Cypraea histrio* Meuschen  
43. *Cypraea lynx* Linnaeus  
44. *Cypraea mauritiana* Linnaeus  
45. *Cypraea moneta* Linnaeus  
46. *Cypraea tigris* Linnaeus

## Family CASSIDIDAE

47. *Casmaria ponderosa ponderosa* (Gmelin)

48. *Cassis cornuta* (Linnaeus) (Schedule I, Part IV)  
 49. *Cypraecassis rufa* (Linnaeus) (Schedule I, Part IV)

Family BURSIDAE

50. *Columbellina granularis* (Röding)

Order NEOGASTROPODA  
 Family MURICIDAE

51. *Drupa (Drupa) morum* Röding  
 52. *Drupa (Drupa) ricinus ricinus* Linnaeus  
 53. *Drupa (Drupina) lobata* (Blainville)  
 54. *Mancinella bufo* (Lamarck)  
 55. *Murex tribulus* Linnaeus  
 56. *Thais hippocastanum* (Linnaeus)  
 57. *Thais tuberosa* (Röding)  
 58. *Vitularia miliaris* (Gmelin)

Family CORALLIOPHILIDAE

59. *Rapa rapa* (Linnaeus)

Family MITRIDAE

60. *Mitra (Mitra) mitra* (Linnaeus)  
 61. *Mitra (Strigatella) litterata* Lamarck  
 62. *Mitra (Strigatella) paupercula* (Linnaeus)  
 63. *Mitra (Strigatella) scutulata* (Gmelin)

Family COSATELLARIIDAE

64. *Vexillum cadaverosum* (Reeve)  
 65. *Vexillum gruneri* (Reeve)

Family CONIDAE

66. *Conus amadis* Gmelin  
 67. *Conus araneosus var. nicobaricus* Hawass  
 68. *Conus arenatus* Hawass  
 69. *Conus chaldaeus* (Röding)  
 70. *Conus ebraeus* Linnaeus  
 71. *Conus eburneus* Hawass

- 72. *Conus generalis* Linnaeus
- 73. *Conus geographus* Linnaeus
- 74. *Conus litteratus* Linnaeus
- 75. *Conus nobilis* Linnaeus
- 76. *Conus terebra* Born
- 77. *Conus tessulatus* Born
- 78. *Conus textile* Linnaeus
- 79. *Conus zonatus* Hawass

Family TEREBRIDAE

- 80. *Terebra crenulata* Linnaeus
- 81. *Terebra dimidiata* (Linnaeus)
- 82. *Terebra maculata* Linnaeus
- 83. *Terebra undulata* Gray

Order CEPHALASPIDEA  
Family BULLIDAE

- 84. *Bulla ampulla* (Linnaeus)

Class BIVALVIA  
Order VENEROIDA  
Family TRIDACNIDAE

- 85. *Hippopus hippopus* (Linnaeus) (Schedule I, Part IV)
- 86. *Tridacna crocea* Lamarck
- 87. *Tridacna maxima* (Röding) (Schedule I, Part IV)
- 88. *Tridacna squamosa* Lamarck (Schedule I, Part IV)

Family PTERIIDAE

- 89. *Pinctada anomioides* (Reeve)
- 90. *Pinctada margaritifera* (Linnaeus)
- 91. *Pteria* sp.

Family PECTINIDAE

- 92. *Gloripallium pallium* (Linnaeus)
- 93. *Mimachlamys senatoria* (Gmelin)

Family SPONDYLIDAE

94. *Spondylus hystrix* Röding
95. *Spondylus multisetosus* Reeve

Family OSTREIDAE

96. *Crassostrea* sp.
97. *Saccostrea cucullata* (Born)

Family LIMIDAE

98. *Lima* sp.

Family TELLINIDAE

99. *Tellina (Acropagia) angulata* Linnaeus
100. *Tellina (Acropagia) remies* Linnaeus

Class CEPHALOPODA

Order NAUTILOIDA

Family NAUTILIDAE

101. *Nautilus pompilius* Linnaeus (Schedule I, Part IV)

Phylum ANNELIDA

Class POLYCHAETA

1. *Aphrodite talpa* Quatrefages
2. *Arenicola brasiliensis* Nonato
3. *Branciomma* sp.
4. *Eunice afra* Peters
5. *Eunice tentaculata* Quatrefages
6. *Eurythoe complanata* (Pallas)
7. *Harmothoe* sp.
8. *Nephtys* sp.
9. *Phyllodoce fristedti* Bergstrom
10. *Pomatostegus stellatus* (Abildgaard)
11. *Sabella* sp.
12. *Sabellastrarea* sp.
13. *Spirobranchus giganteus* (Pallas)
14. *Spirorbis foraminosus* Busch

## Phylum ARTHROPODA

## Class CRUSTACEA

## Order DECAPODA

## Family ALPHEIDAE

1. *Alpheus macroscelus* Alcock & Anderson
2. *Alpheus frontalis* Edwards

## Family ATYIDAE

3. *Caridina brachydactyla* de Man
4. *Cardinia typus* Edwards

## Family GNATHOPHYLLIDAE

5. *Hymenocera elegans* Heller
6. *Phyllognathia ceratophthalma* (Balss)

## Family HIPPOLYTIDAE

7. *Hippolysmata prima* (Borradaile)
8. *Hippolysmata vittata* Stimpson
9. *Hippolyte commensalis* Kemp
10. *Latreutes porcinus* Kemp
11. *Saron marmoratus* (Olivier)
12. *Saron neglectus* de Haan

## Family PALAEMONIDAE

13. *Conchodytes tridacnae* Peters
14. *Coralliocoris graminea* (Dana)
15. *Leptocarpus potamuscus* (Kemp)
16. *Macrobrachium hendersoni* (de Man)
17. *Periclimenes (Harpilius) amymone* de Man
18. *Periclimenes (Harpilius) andamanensis* Kemp
19. *Periclimenes (Harpilius) elegans* (Paulson)
20. *Periclimenes (Harpilius) inornatus* Kemp
21. *Periclimenes (Periclimenes) impar* Kemp

## Family PANDALIDAE

22. *Chlorotocella gracilis* Balss

23. *Plesionika bifurca* Alcock & Anderson

24. *Plesionika ocellus* (Spence Bate)

Family STENOPIDAE

25. *Spongicola andamanica* Alcock

Family PANULIRIDAE

26. *Panulirus homarus* (Linnaeus)

27. *Panulirus versicolor* (Latreille)

Family PORTUNIDAE

28. *Charybdis orientalis* (Dana)

29. *Charybdis rostrata* Edwards

30. *Podophthalmus* sp.

31. *Portunus minutus* (Shen)

32. *Portunus orbicularis* Richters

33. *Portunus pelagicus* (Linnaeus)

34. *Portunus sanguinolentus* (Herbst)

35. *Portunus tuberculatus* Edwards

36. *Thalamita crenata* Latreille

37. *Thalamita exitastica* Alcock

38. *Thalamita oculea* Alcock

39. *Thalamita prymna* (Herbst)

Family GRAPSIDAE

40. *Grapsus albolineatus* Lamarck

41. *Grapsus grapsus* (Linnaeus)

42. *Sesarma indica* Edwards

43. *Sesarma intermedium* (de Haan)

Family OCYPODIDAE

44. *Ocyroda ceratophthalma* (Pallas)

45. *Uca* sp.

Family XANTHIDAE

46. *Epixanthus dentatus* (White)

47. *Eriphia laevimana* Latreille

- 48. *Etisus dentatus* (Herbst)
- 49. *Etisus laevimanus* Randall
- 50. *Euxanthus* sp.
- 51. *Liomera venosa* (Edwards)
- 52. *Lybia* sp.

Family CALAPPIDAE

- 53. *Calappa hepatica* (Linnaeus)
- 54. *Calappa* sp.

Family DORIPPIDAE

- 55. *Dorippe* sp.

Family PAGURIDAE

- 56. *Clibanarius humilis* Dana
- 57. *Clibanarius olivaceus* Henderson
- 58. *Dardanus guttatus* (Olivier)
- 59. *Dardanus* sp.
- 60. *Pagurus pergranulatus* (Henderson)
- 61. *Spiropagurus* sp.

Order STOMATOPODA  
Family SQUILLIDAE

- 62. *Gonodactylus* sp.
- 63. *Haptosquilla* sp.
- 64. *Harpiosquilla annandelei* (Kemp)
- 65. *Harpiosquilla indica* Manning
- 66. *Oratosquilla indica* (Hansen)
- 67. *Oratosquilla interrupta* (Kemp)
- 68. *Squilloides* sp.

Class INSECTA  
Order ODONATA

- 69. *Potamarcha congener* (Rambur)
- 70. *Tholymis tillarga* (Fabricius)

Order ORTHOPTERA

71. *Holochlora albida* Brunner
72. *Oecanthus indicus* Saussure
73. *Teleogryllus occipitalis* (Serville)

Order DICTYOPTERA

74. *Acromantis* sp.
75. *Blatella germanica* (Linnaeus)

Order ISOPTERA

76. *Odontotermes latigula* (Synder)

Order HEMIPTERA

77. *Ricanoptera polita* Melich
78. *Antilochus conqueberti* Fabricius
79. *Dysdercus mesostigma* Distant
80. *Laptocorisa* sp.
81. *Metochus uniguttatus* (Thunberg)
82. *Riptortus* sp.

Order COLEOPTERA

83. *Anomala desiccata* Arrow
84. *Holotrichia andamana* Brenske
85. *Olenecamptus bilobus* (Fabricius)

Order DIPTERA

86. *Chrysomyia megacephala* (Fabricius)
87. *Lygyar* sp.
88. *Musca sorebens* Wied
89. *Phlebotomus* sp.

Order LEPIDOPTERA (Schedule I & IV)

90. *Carriola ecnomoda* Swinhoe
91. *Cirrhochrista* sp.
92. *Cleora alienaria* Walker
93. *Comostola cediella* Prout

94. *Cretonotus gangis* (Linnaeus)
95. *Diaphania actorionalis* Walker
96. *Diaphania vertumnalis* (Guenee)
97. *Dielephia hypothous* (Cramer)
98. *Euplocia memblitaria* Cramer
99. *Glyphodes canthusalis* Walker
100. *Heterostegane warreni* Prout
101. *Ixias pyrene andamana* Moore (Endemic)
102. *Pareronia ceylanica naraka* Moore (Endemic)
103. *Gandaca harina andamana* Moore (Endemic)
104. *Lamproceama diemenalis* (Guenee)
105. *Leptosia nina nina* Fabricius
106. *Neptis hylas andamana* Moore (Endemic)
107. *Cethosis cyane* Drury
108. *Ocinara* sp.
109. *Graphium agammemnon andamanaica* Lathy (Endemic)
110. *Graphium antiphates epaminondas* Ob. (Endemic & IUCN 2000 Red list of Threatened Species)
111. *Graphium eurypylus macronius* Jordon (Endemic & Scheduled II)
112. *Pachliopta rhodifer* Butler (Endemic)
113. *Papilio memnon agenor* Linnaeus
114. *Papilio mayo* (Endemic & Schedule-II)
115. *Papilio polytes stichioides* Evans (Endemic)
116. *Pachliopta hector* (Linnaeus) (Schedule-I)
117. *Troides helena heliconoides* Moore (Endemic)
118. *Perina nuda* Fabricius
119. *Plutella maculipennis* Curt
120. *Porallelia joviana* (Stoll)
121. *Pseudomicronia aculeata* Guenee
122. *Spodoptera litura* (Fabricius)
123. *Striglina scitaria thermesioides* (Snellen)
124. *Talanga sexpunctalis* Moore
125. *Thosea andamana* Holloway
126. *Loxura atymnus prapha* (Endemic)

Order HYMENOPTERA (Bees, wasps, Ants)

127. *Apis cerana indica* Fabricius
128. *Elis annulata* Fabricius
129. *Eumenes petiolata* (Fabricius)
130. *Oecophyllia samaragdina* (Forel)
131. *Xylocopa rufescens* Smith

Phylum ECHINODERMATA  
 Class ASTEROIDEA  
 Order VALVATIDAE  
 Family OREASTERIDAE

1. *Culcita novaeguinea* Müller & Troschel
2. *Culcita schmideliana* Retzius

Family OPHIDIASTERIDAE

3. *Linckia laevigata* (Linnaeus)

Order SPINULOSIDA  
 Family ACANTHASTERIDAE

4. *Acanthaster planci* (Linnaeus)

Class OPHIUROIDEA  
 Order OPHIURIDA  
 Family OPHIOTHRICIDAE

5. *Macrophiothrix longipeda* (Lamarck)
6. *Ophiothela danae* Verrill

Family OPHIOCOMIDAE

7. *Ophiarthrum elegans* Peters
8. *Ophiomastix annulosa* (Lamarck)
9. *Ophiocoma dentata* Müller & Troschel
10. *Ophiocoma erinaceus* Müller & Troschel
11. *Ophiocoma scolopendrina* (Lamarck)

Class ECHINOIDEA  
 Order ECHINOIDA  
 Family ECHINOMETRIDAE

12. *Echinometra mathaei* (de Blainville)

## Family DIADEMATIDAE

13. *Diadema setosum* (Leske)
14. *Echinothrix calamaris* (Pallas)

Class HOLOTHUROIDEA (Schedule I, Part IV)  
Family HOLOTHURIIDAE

15. *Actinopyga echinites* (Jäger)
16. *Actinopyga miliaris* (Quoy & Gaimard)
17. *Actinopyga mauritiana* (Quoy & Gaimard)
18. *Bohadschia argus* Jäger
19. *Bohadschia marmorata*
20. *Bohadschia vitinesis* (Semper)
21. *Holothuria (Acanthotrapeza) pyxis* Selenka
22. *Holothuria (Halodeima) atra* Jäger
23. *Holothuria (Halodeima) edulis* Lesson
24. *Holothuria (Mertensiothuria) leucospilota* (Brandt)
25. *Holothuria (Metriatyla) scabra* Jäger
26. *Holothuria (Thymiosycia) hilla* Lesson
27. *Holothuria (Thymiosycia) impatiens* (Forsskål)

## Family PHYLLOPHORIDAE

28. *Phyrella fragilis* (Oshima)

## Family STICHOPODIDAE

29. *Stichopus chloronotus* Brandt

Order APODIDA  
Family SYNAPTIDAE

30. *Synapta maculata* (Chamisso & Eysenhardt)

Phylum CHORDATA  
Class CHONDRICHTHYES  
Family HEMISCYLLIIDAE (Bamboosharks)

1. *Chiloscyllium griseum* Müller & Henle

## Family STEGOSTOMATIDAE

2. *Stegostoma fasciatum* (Hermann)

Family SCYLIORHINIDAE (Cat sharks)

3. *Apristurus investigatoris* (Misra)
4. *Halaelurus hispidus* (Alcock)

Order CARCHARHINIFORMES  
Family CARCHARCHNIDAE

5. *Carcharhinus albimarginatus* Rüppell
6. *Carcharhinus amblyrhynchos* (Bleeker)
7. *Carcharhinus hemiodon* (Müller & Henle)
8. *Carcharhinus longimanus* (Poey)
9. *Carcharhinus melanopterus* (Quoy & Gaimard)
10. *Carcharhinus sorrah* (Müller & Henle)
11. *Negaprion acutidens* (Rüppell)
12. *Scoliodon laticaudus* Müller & Henle

Family SPHYRNIDAE

13. *Eusphyrna blochii* (Cuvier)
14. *Sphyrna zygaena* (Linnaeus)

Order RAJIFORMES  
Family RHINOBATIDAE

15. *Rhynchobatus djiddensis* (Forsskål) (Schedule I, Part IV)
16. *Rhinobatos granulatus* Cuvier

Family RAJIDAE

17. *Cruriraja andamanica* (Lloyd)

Order MYLIOBATIFORMES  
Family DASYATIDAE

18. *Dasyatis kuhlii* (Müller & Henle)
19. *Himantura gerrardi* (Gray)
20. *Himantuta uarnak* (Forsskål)
21. *Taeniura lymma* (Forsskål)

Family MYLIOBATIDAE

22. *Aetobatus narinari* (Euphrasen)
23. *Manta birostris* (Walbaum)

Class OSTEICHTHYES  
 Order ELOPIFORMES  
 Family ALBULIDAE

24. *Albula vulpes* (Linnaeus)

Class ACTINOPTERYGII  
 Order ANGUILLIFORMES  
 Family MURAENIDAE

25. *Echidna nebulosa* (Ahl)

26. *Gymnomuraena zebra* (Shaw)

27. *Gymnothorax favagineus* (Bloch & Schneider)

28. *Gymnothorax fimbriatus* (Bennett)

29. *Gymnothorax pictus* (Ahl)

30. *Gymnothorax richardsonii* (Bleeker)

31. *Gymnothorax thyrsoideus* (Richardson)

32. *Gymnothorax undulatus* (Lacepède)

33. *Scuticaria tigrina* (Lesson)

34. *Uropterygius marmoratus* (Lacepède)

Family OPHICHTHIDAE

35. *Leiuranus semicinctus* (Lay & Bennett)

36. *Myrichthys colubrinus* (Boddaert)

Family CONGRIDAE

37. *Gorgasia maculata* Klausewitz & Eibl-Eibesfeldt

38. *Heteroconger* sp.

Order CLUPEIFORMES  
 Family CLUPEIDAE

39. *Amblygaster leiogaster* (Valenciennes)

40. *Anodontostoma chacunda* (Hamilton)

41. *Dussumieria elopsoides* (Bleeker)

42. *Herklotsichthys quadrimaculatus* (Rüppell)

43. *Sardinella clupeiodes* (Bleeker)

44. *Sardinella fimbriata* (Valenciennes)

45. *Sardinella gibbosa* (Bleeker)

46. *Spratelloides delicatulus* (Bennett)

Family ENGRAULIDAE (Anchovies)

- 47. *Setipinna phasa* (Hamilton)
- 48. *Stolephorus commersonii* Lacepède
- 49. *Stolephorus indicus* (van Hasselt)
- 50. *Thrissina baelama* (Forsskål)
- 51. *Thryssa malabarica* (Bloch)
- 52. *Thryssa setirostris* (Broussonet)

Family CHIROCENTRIDAE (Wolf herrings)

- 53. *Chirocentrus dorab* (Forsskål)

Order GONORYNCHIFORMES  
Family CHANIDAE (Milkfish)

- 54. *Chanos chanos* (Forsskål)

Order SILURIMORMES  
Family PLOTOSIDAE

- 55. *Plotosus lineatus* (Thunberg)

Order AULOPIFORMES  
Family SYNODONTIDAE (Lizardfishes)

- 56. *Saurida gracilis* (Quoy & Gaimard)
- 57. *Saurida tumbil* (Bloch)
- 58. *Synodus indicus* (Day)
- 59. *Synodus variegatus* (Lacepède)
- 60. *Trachinocephalus myops* (Forster)
- 61. *Ventrifossa petersonii* (Alcock)

Order OPHIDIIFORMES  
Family OPHIDIIDAE

- 62. *Brotula multibarbata* Temminck & Schlegel, 1846
- 63. *Dicrolene* sp.

Family CARAPIDAE (Pearlfishes)

- 64. *Encheliophis homei* (Richardson)

## Family ANTENNARIIDAE (Anglerfishes)

- 65. *Antennarius commerson* (Shaw)
- 66. *Histrio histrio* (Linnaeus)

Order CYPRINODONTIFORMES  
Family EXOCOETIDAE (Flyingfishes)

- 67. *Cypselurus furcatus* (Mitchill)
- 68. *Cypselurus oligolpis* (Bleeker)
- 69. *Exocoetus volitans* Linnaeus

Order BERYCIFORMES  
Family HOLOCENTRIDAE (Squirrelfishes, soldierfishes)

- 70. *Myripristis adusta* (Bleeker)
- 71. *Myripristis murdjan* (Forsskål)
- 72. *Neoniphon sammara* (Forsskål)
- 73. *Sargocentron caudimaculatum* (Rüppell)
- 74. *Sargocentron praslin* (Lacepède)
- 75. *Sargocentron spiniferum* (Forsskål)

Order PEGASIFORMES  
Family PEGASIDAE (Seamoths)

- 76. *Pegasus volitans* Linnaeus

Order SYNGNATHIFORMES  
Family SYNGNATHIDAE (Pipefishes and Seahorses)

- 77. *Choeroichthys sculptus* (Gunther)
- 78. *Corythoichthys haematopterus* (Bleeker)
- 79. *Corythoichthys intestinalis* (Ramsy)
- 80. *Doryrhamphus dactyliophorus* (Bleeker)
- 81. *Doryrhamphus eccisus excisus* Kaup
- 82. *Hippocampus kuda* Bleeker
- 83. *Syngnathoides biaculeatus* (Bloch)

## Family FISTULARIIDAE

- 84. *Fistularia commersonii* Rüppell
- 85. *Fistularia pitimba* Lacepède

Family CENTRISCIDAE

86. *Aeoliscus strigatus* (Gunther)

Order SCORPAENIFORMES

Family SCORPAENIDAE (Scorpionfishes or rockfishes)

87. *Dendrochirus brachypterus* (Cuvier)

88. *Dendrochirus zebra* (Cuvier)

89. *Pterois antennata* (Bloch)

90. *Pterois radiata* Cuvier

91. *Pterois volitans* (Linnaeus)

92. *Scorpaenodes guamensis* (Quoy & Gaimard)

93. *Scorpaenopsis cirrhosa* (Thunberg)

94. *Scorpaenopsis venosa* (Cuvier)

Family TETRAROGIDAE (Wasp fishes)

95. *Tetraioge niger* (Cuvier)

96. *Vespicula trachinoides* (Cuvier)

Family SYNANCEIIDAE (Stonefishes)

97. *Synanceia verrucosa* Bloch & Schneider

Family CARACANTHIDAE (Orbicular or Velvetfishes)

98. *Caracanthus unipinna* (Gray)

Family PLATYCEPHALIDAE (Flatheads)

99. *Cociella crocodile* (Tilesius)

100. *Platycephalus indicus* (Linnaeus)

101. *Sorsogona tuberculata* (Cuvier)

Order PERCIFORMES

Family AMBASSIDAE (Asiatic glassfishes)

102. *Ambassis commersonii* Cuvier

103. *Ambassis dussumieri* Cuvier

Family SERRANIDAE

(Sea basses, groupers and fairy basslets)

Subfamily ANTHIINAE

104. *Pseudanthia squamipinnis* Peters

## Subfamily EPINEPHILINAE

105. *Aethaloperca rogae* (Forsskål)
106. *Anyperodon leucogramicus* (Valenciennes).
107. *Cephalopholis argus* Bleeker & Schneider,
108. *Cephalopholis boenak* (Bloch)
109. *Cephalopholis formosa* (Shaw & Nodder)
110. *Cephalopholis miniata* (Forsskål)
111. *Cephalopholis sonnerati* (Valenciennes)
112. *Cromileptes altivelis* (Valenciennes)
113. *Epinephelus areolatus* (Forsskål)
114. *Epinephelus coeruleopunctatus* (Bloch)
115. *Epinephelus coioides* (Hamilton)
116. *Epinephelus fasciatus* (Forsskal)
117. *Epinephelus flavocaeruleus* (Lacepède)
118. *Epinephelus fuscoguttatus* (Forsskål)
119. *Epinephelus lanceolatus* (Bloch)
120. *Epinephelus malabaricus* (Bloch & Schneider)
121. *Epinephelus merra* Bloch
122. *Epinephelus ongus* (Bloch)
123. *Epinephelus undulosus* (Quoy & Gaimard)
124. *Grammistes sexlineatus* (Thunberg)
125. *Plectropomus maculatus* (Bloch)
126. *Plectropomus pessuliferus* (Fowler)
127. *Pseudanthias squamipinnis* (Peters)
128. *Variola albimarginata* Baissac
129. *Variola louti* (Forsskål)

## Family PSEUDOCROMIDAE (Dottybacks)

130. *Pseudochromis cyanotaenia* Bleeker

## Family PLESIOPIDAE (Roundheads)

131. *Plesiops coeruleolineatus* Rüppell
132. *Plesiops corallicola* Bleeker

## Family KUHLIDAE (Flagtails)

133. *Kuhlia mugil* (Forster)

Family PRIACANTHIDAE (Bigeyes or Catalufas)

134. *Priacanthus hamrur* (Forsskål)

135. *Pristigenys nipponia* (Cuvier)

Family APOGONIDAE (Cardinalfishes)

136. *Apogon aureus* (Lacepède)

137. *Apogon cookii* Macleay

138. *Apogon fraenatus* Valenciennes

139. *Apogon guamensis* Valenciennes

140. *Apogon hyalosoma* Bleeker

141. *Apogon quadrifasciatus* Cuvier

142. *Apogon trimaculatus* Cuvier

143. *Apogonichthys ocellatus* (Weber)

144. *Apogonichthys auritus* (Valenciennes)

145. *Cheilodipterus quinquelineatus* Cuvier

146. *Sphaeramia orbicularis* (Cuvier)

Family SILLAGINIDAE

147. *Sillago sihama* (Forsskal)

Family ECHENEIDAE (Remoras)

148. *Echeneis naucrates* Linnaeus

Family CARANGIDAE (Jacks and Pompanos)

149. *Alectis ciliaris* (Bloch)

150. *Alectis indicus* (Rüppell)

151. *Atule mate* (Cuvier)

152. *Carangoides armatus* (Rüppell)

153. *Carangoides fulvoguttatus* (Forsskål)

154. *Carangoides hedlandensis* (Whitely)

155. *Carangoides malabaricus* Bloch & Schneider

156. *Carangoides oblongus* (Cuvier)

157. *Caranx melampygus* Cuvier

158. *Caranx sexfasciatus* Quoy & Gaimard

159. *Elegatis bipinnulata* (Quoy & Gaimard)

160. *Gnathonodon speciosus* (Forsskål)

161. *Megalaspis cordyla* (Linnaeus)
162. *Scombroides lysan* (Forsskål)
163. *Scombroides tala* (Cuvier)
164. *Selaroides leptolepis* (Cuvier)
165. *Trachinotus baillonii* (Lacepède)
166. *Trachinotus blochii* (Lacepède)

Family LEIOGNATHIDAE  
(Slimys, slipmouths, or ponyfishes)

167. *Gazza minuta* (Bloch)
168. *Leiognathus equulus* (Forsskål)
169. *Leiognathus splendens* (Cuvier)
170. *Secutor insidiator* (Bloch)

Family LUTJANIIDAE (Snappers)

171. *Aprion virescens* Valenciennes
172. *Lutjanus biguttatus* (Valenciennes)
173. *Lutjanus bohar* (Forsskål)
174. *Lutjanus decussatus* (Cuvier)
175. *Lutjanus ehrenbergii* (Peters)
176. *Lutjanus fulviflammua* (Forsskål)
177. *Lutjanus gibbus* (Forsskål)
178. *Lutjanus johnii* (Bloch)
179. *Lutjanus kasmira* (Forsskål)
180. *Lutjanus lunulatus* (Park)
181. *Lutjanus malabaricus* (Bloch & Schneider)
182. *Lutjanus rivulatus* (Cuvier)
183. *Lutjanus russellii* (Bleeker)
184. *Lutjanus vitta* (Quoy & Gaimard)
185. *Pinjalo pinjalo* (Bleeker)

Family CAESIONIDAE (Fusiliers)

186. *Caesio cauerulaurea* Lacepède
187. *Caesio lunaris* Cuvier
188. *Caesio pisang* (Bleeker)
189. *Caesio tile* (Cuvier)

190. *Dipterygonatus balteatus* (Valenciennes)

191. *Pterocaesio chrysozona* (Cuvier)

192. *Pterocaesio pisang* (Bleeker)

Family GERREIDAE (Mojarras)

193. *Gerres filamentosus* Cuvier

194. *Gerres oblongus* Cuvier

195. *Gerres oyena* (Forsskål)

Family HAEMULIDAE (Grunts)

196. *Diagramma pictum* (Thunberg)

197. *Plectorhinchus chaetodonoides* Lacepède

198. *Plectorhinchus gibbosus* (Lacepède)

199. *Pomodasys argenteus* (Forsskål)

200. *Pomodasys kaakan* (Cuvier)

201. *Pomodasys maculatus* (Bloch)

Family LETHRINIDAE (Emperors or Scavengers)

202. *Gnathodentex aurolineatus* (Lacepède)

203. *Gymnocranius grandoculis* (Valenciennes)

204. *Lethrinus borbonicus* Valenciennes

205. *Lethrinus elongates* Valenciennes

206. *Lethrinus erythropterus* Valenciennes

207. *Lethrinus harak* (Forsskål)

208. *Lethrinus nebulosus* (Forsskål)

209. *Lethrinus obsoletus* (Forsskål)

210. *Lethrinus variegatus* Valenciennes

211. *Monotaxis grandoculis* (Forsskål)

Family SCIAENIDAE

212. *Johnius amblycephalus* (Bleeker)

Family NEMIPTERIDAE

(Threadfin breams, Whiptail breams)

213. *Nemipterus japonicus* (Bloch)

214. *Nemipterus mesoprion* (Bleeker)

215. *Scolopsis bilineata* (Bloch)

- 216. *Scolopsis ciliatus* (Lacepède)
- 217. *Scolopsis ghanam* (Forsskål)
- 218. *Scolopsis lineatus* Quoy & Gaimard
- 219. *Scolopsis margaritifer* Cuvier

Family MULLIDAE (Goatfishes)

- 220. *Parupeneus barberinus* (Lacepède)
- 221. *Parupeneus bifasciatus* (Lacepède)
- 222. *Parupeneus cyclostomus* (Lacepède)
- 223. *Parupeneus indicus* (Shaw)
- 224. *Parupeneus pleurostigma* (Bennett)
- 225. *Upeneus tragula* Richardson

Family PEMPHERIDAE (Sweepers)

- 226. *Pempheris vanicolensis* Cuvier

Family MONODACTYLIDAE

- 227. *Monodactylus argenteus* (Linnaeus)

Family KYPHOSIDAE (Sea chubs)

- 228. *Kyphosus cinerascens* (Forsskal)
- 229. *Kyphosus vaigiensis* (Quoy & Gaimard)

Family EPHIPPIDAE  
(Spadefishes, batfishes and scats)

- 230. *Ephippus orbis* (Bloch)
- 231. *Platax orbicularis* (Forsskal)
- 232. *Platax pinnatus* (Linnaeus)

Family CHAETODONTIDAE (Butterflyfishes)

- 233. *Chaetodon auriga* Forsskal
- 234. *Chaetodon decussatus* Cuvier
- 235. *Chaetodon ephippium* Cuvier
- 236. *Chaetodon falcula* Bloch
- 237. *Chaetodon lineolatus* Cuvier
- 238. *Chaetodon lunula* (Lacepède)
- 239. *Chaetodon meyeri* Bloch & Schneider

- 240. *Chaetodon octofasciatus* Bloch
- 241. *Chaetodon plebeius* Cuvier
- 242. *Chaetodon triangulum* Cuvier
- 243. *Chaetodon trifasciatus* Mungo Park
- 244. *Chaetodon unimaculatus* Bloch
- 245. *Chaetodon vagabndus* Linnaeus
- 246. *Forcipiger longirostris* (Broussonet)
- 247. *Heniochus acuminatus* (Linnaeus)
- 248. *Heniochus diphreutes* Jordan
- 249. *Heniochus singularius* Smith & Radcliffe
- 250. *Heniochus varius* (Cuvier)

Family POMACANTHIDAE (Angelfishes)

- 251. *Centropyge eibli* Klausewitz
- 252. *Chaetodontoplus melanosoma* (Bleeker)
- 253. *Pomacanthus annularis* (Bloch)
- 254. *Pomacanthus imperator* (Bloch)
- 255. *Pomacanthus semicirculatus* (Cuvier)
- 256. *Pomacanthus xanthometopon* (Bleeker)
- 257. *Pygoplites diacanthus* (Boddaert)

Family POMACENTRIDAE (Damsel-fishes)

- 258. *Abudefduf bengalensis* (Bloch)
- 259. *Abudefduf septemfasciatus* (Cuvier)
- 260. *Abudefduf sordidus* (Forsskal)
- 261. *Abudefduf vaigiensis* (Quoy & Gaimard)
- 262. *Amblyglyphidodon leucogaster* (Bleeker)
- 263. *Amphiprion akallopisos* Bleeker
- 264. *Amphiprion clarkii* (Bennett)
- 265. *Amphiprion ephippium* (Bloch)
- 266. *Amphiprion ocellaris* Cuvier
- 267. *Amphiprion perideraion* Bleeker
- 268. *Amphiprion sebae* Bleeker
- 269. *Cheiloprion labiatus* (Day)
- 270. *Chromis caerulea* (Cuvier)
- 271. *Chromis viridis* (Cuvier)

- 272. *Chrysiptera biocellata* (Quoy & Gaimard)
- 273. *Chrysiptera glauca* (Cuvier)
- 274. *Chrysiptera leucopoma* (Cuvier)
- 275. *Chrysiptera unimaculata* (Cuvier)
- 276. *Dascyllus aruanus* (Linnaeus)
- 277. *Dascyllus trimaculatus* (Rüppell)
- 278. *Dischistodus perspicillatus* (Cuvier)
- 279. *Neoglyphidodon melas* (Cuvier)
- 280. *Plectroglyphidodon lacrymatus* (Quoy & Gaimard)
- 281. *Pomacentrus littoralis* (Cuvier)
- 282. *Premnas biaculeatus* (Boch)
- 283. *Stegastes lividus* (Forster)

Family CIRRHITIDAE (Hawkfishes)

- 284. *Cirrhitus pinnulatus* (Forster)
- 285. *Oxycirrhites typus* Bleeker
- 286. *Paracirrhites forsteri* (Schneider)

Family MUGILIDAE (Mulletts)

- 287. *Liza parsia* (Hamilton)
- 288. *Liza* sp.
- 289. *Mugil cephalus* Linnaeus

Family SPHYRAENIDAE (Barracudas)

- 290. *Sphyraena flavicauda* Rüppell
- 291. *Sphyraena forsteri* (Schneider)
- 292. *Sphyraena jello* Cuvier
- 293. *Sphyraena obstusata* Cuvier

Family POLYNEMIDAE

- 294. *Polydactylus heptadactylus* (Cuvier)
- 295. *Polydactulus indicus* (Shaw)

Family LABRIDAE (Wrasses)

- 296. *Anampses meleagrides* Valenciennes
- 297. *Bodianus axillaris* (Bennett)

298. *Bodianus meosthorax* (Bloch & Schneider)
299. *Cheilinus chlorourus* (Bloch)
300. *Cheilinus diagrammus* (Lacepède)
301. *Cheilinus fasciatus* (Bloch)
302. *Cheilinus trilobatus* (Lacepède)
303. *Cheilinus undulatus* (Rüppell)
304. *Choerodon anchorago* (Bloch)
305. *Choerodon melanostigma* Fowler & Bean
306. *Coris gaimard* (Quoy & Gaimard)
307. *Epibulus insidiator* (Pallas)
308. *Gomphosus caeruleus* Lacepède
309. *Halichoeres argus* (Bloch & Schneider)
310. *Halichoeres hortulanus* (Lacepède)
311. *Halichoeres marginatus* Rüppell
312. *Halichoeres melanurus* (Bleeker)
313. *Halichoeres nigrescens* (Bloch & Schneider)
314. *Halichoeres scapularis* (Bennett)
315. *Hemigymnus fasciatus* (Bloch)
316. *Hemigymnus melapterus* (Bloch)
317. *Labroides bicolor* Fowler & Bean
318. *Labroides dimidiatus* (Valenciennes)
319. *Macropharyngodon meleagris* (Valenciennes)
320. *Oxycheilinus digrammus* (Lacepède)
321. *Stethojulis strigiventer* (Bennett)
322. *Stethojulis trilineata* (Bloch & Schneider)
323. *Thalassoma hardwicke* (Bennett)
324. *Thalassoma herbraicum* (Lacepède)
325. *Thalassoma janseni* (Bleeker)
326. *Thalassoma lunare* (Linnaeus)
327. *Thalassoma purpureum* (Forsskal)

Family SCARIDAE (Parrotfishes)

328. *Calotomus bicolor* (Rüppell)
329. *Chlorurus gibbus* (Rüppell)
330. *Chlorurus sordidus* (Forsskal)

- 331. *Scarus dubius* (Bennett)
- 332. *Scarus frenatus* Lacepède
- 333. *Scarus ghobban* Forsskal
- 334. *Scarus globiceps* Valenciennes
- 335. *Scarus niger* Forsskal
- 336. *Scarus prasiognathos* Valenciennes
- 337. *Scarus psittacus* Forsskal
- 338. *Scarus rivulatus* Valenciennes
- 339. *Scarus rubroviolaceus* Bleeker

Family TRICHONOTIDAE (Sanddivers)

- 340. *Trichonotus setiger* Bloch & Schneider

Family PINGUIPEDIDAE (Sandperches)

- 341. *Parapercis clathrata* Ogilby
- 342. *Parapercis cylindrica* (Bloch)
- 343. *Parapercis hexophthalma* (Ehrenberg)
- 344. *Parapercis tetracanthus* (Lacepède)
- 345. *Parapercis xanthozona* (Bleeker)

Family BLENNIIDAE (Combtooth blennies)

- 346. *Aspidontus taeniatus taeniatus* Quoy & Gaimard
- 347. *Astrosalarias fuscus fuscus* (Rüppell)
- 348. *Ecsenius midas* Starck
- 349. *Ecsenius bicolor* (Day)
- 350. *Ecsenius lineatus* Klausewitz
- 351. *Entomacrodus marmoratus* (Bennett)
- 352. *Entomacrodus striatus* (Valenciennes)
- 353. *Istiblennius cynostigma* (Bleeker)
- 354. *Istiblennius dussumieri* (Valenciennes)
- 355. *Istiblennius edentulous* (Schneider)
- 356. *Istiblennius lineatus* (Valenciennes)
- 357. *Istiblennius periophthalmus* (Valenciennes)
- 358. *Petroscirtes breviceps* (Valenciennes)
- 359. *Petroscirtes mitratus* Rüppell
- 360. *Salarias fasciatus* (Bloch)

361. *Xiphasia setifer* Swainson

Family CALLIONYMIDAE (Dragonets)

362. *Callionymus filamentosus* Valenciennes

363. *Eleutherochir opercularis* (Valenciennes)

Family ELEOTRIDAE (Sleepers)

364. *Eleotris fusca* (Forster)

365. *Eleotris lutea* Day

366. *Eleotroides sexguttatus* (Valenciennes)

367. *Eviota distigma* Jord & Seale

368. *Hypseleotris guntheri* (Bleek)

Family GOBIIDAE (Gobies)

369. *Acentrogobius viridipunctatus* (Valenciennes)

370. *Amblygobius albimaculatus* (Rüppell)

371. *Asterropteryx semipunctatus* Rüppell

372. *Boleophthalmus boddarti* (Pallas)

373. *Brachyamblyopus urolepis* (Bleeker)

374. *Callogobius hasseltii* (Bleeker)

375. *Exyrias puntang* (Bleeker)

376. *Glossogobius bicirrhosus* (Weber)

377. *Glossogobius biocellatus* (Valenciennes)

378. *Glossogobius giuris* (Hamilton)

379. *Gobiodon citrinus* (Rüppell)

380. *Gobiodon histrio* (Valenciennes)

381. *Gobiodon quinquestrigatus* (Valenciennes)

382. *Gobiopsis quinquecincta* (Smith)

383. *Gobiopsis woodsi* Lachner & Mc Kinney

384. *Istigobius goldmanni* (Bleeker)

385. *Istogobius ornatus* (Ruppell)

386. *Mahiodiolia mystacina* (Valenciennes)

387. *Oplopomus caninoides* (Bleeker)

388. *Oplopomus oplopomus* (Valenciennes)

389. *Oxuderces dentatus* Eydoux & Souleyet

390. *Oxyurichthys papuensis* (Valenciennes)

- 391. *Oxyurichthys tentacularis* (Valenciennes)
- 392. *Papillogobius* sp.
- 393. *Parachaeturichthys polynema* (Bleeker)
- 394. *Periophthalmus argentilineatus* Valenciennes
- 395. *Priolepis semidoliatus* (Valenciennes)
- 396. *Valenciennesa sexguttata* (Valenciennes)
- 397. *Yongeichthys criniger* (Valenciennes)

Family MICRODESMIDAE

- 398. *Pteroeleotris evides* (Jordan & Hubbs)
- 399. *Pteroeleotris hanae* (Jordan & Snyder)
- 400. *Pteroeleotris microlepis* (Bleeker)

Family ACANTHURIDAE  
(Surgeonfishes, Tangs, Unicornfishes)

- 401. *Acanthurus leucosternon* Bennett
- 402. *Acanthurus lineatus* (Linnaeus)
- 403. *Acanthurus mata* Cuvier
- 404. *Acanthurus triostegus* (Linnaeus)
- 405. *Acanthurus xanthopterus* Valenciennes
- 406. *Ctenochaetus striatus* (Quoy & Gaimard)
- 407. *Ctenochaetus strigosus* (Bennett)
- 408. *Naso annulatus* (Quoy & Gaimard)
- 409. *Naso brevirostris* (Valenciennes)
- 410. *Naso lituratus* (Forster)
- 411. *Naso unicornis* (Forsskal)
- 412. *Naso vlamingi* (Valenciennes)
- 413. *Zebrasoma scopas* (Cuvier)
- 414. *Zebrasoma veliferum* (Bloch)

Family ZANCLIDAE (Moorish idol)

- 415. *Zanclus cornutus* (Linnaeus)

Family SIGANIDAE (Rabbitfishes)

- 416. *Siganus argenteus* (Quoy & Gaimard)
- 417. *Siganus canaliculatus* (Park)

- 418. *Siganus guttatus* (Bloch)
- 419. *Siganus javus* (Linnaeus)
- 420. *Siganus magnificus* (Bergess)
- 421. *Siganus stellatus* (Forsskal)
- 422. *Siganus vermiculatus* (Valenciennes)
- 423. *Siganus virgatus* (Valenciennes)

Family SCOMBRIDAE (Mackerels, tunas, bonitos)

- 424. *Auxis thazard thazard* (Lacepède)
- 425. *Euthynnus affinis* (Cantor)
- 426. *Grammatorcynus bicarinatus* (Quoy & Gaimard)
- 427. *Rastrelliger bracysoma* (Bleeker)
- 428. *Rastrelliger faughni* Matsui
- 429. *Rastrelliger kanagurta* (Cuvier)
- 430. *Scomberomorus commerson* (Lacepède)
- 431. *Scomberomorus guttatus* (Bloch & Schneider)

Order PLEURONECTIFORMES  
Family PSETTODIDAE (Psettodids)

- 432. *Psettodes erumei* (Richardson)

Family BOTHIDAE (Lefteye flounders)

- 433. *Bothus pantherinus* (Rüppell)
- 434. *Engyprosopon grandisquama* (Temminck & Schlegel)

Family PARALICHTHYIDAE (Longtooth Flounders)

- 435. *Pseudorhombus arsius* (Hamilton)
- 436. *Pseudorhombus dupliciocellatus* Regan
- 437. *Pseudorhombus elevatus* Ogilby

Family CYNOGLOSSIDAE (Tonguefishes)

- 438. *Cynoglossus arel* (Bloch & Schneider)
- 439. *Cynoglossus cynoglossus* (Hamilton)
- 440. *Cynoglossus lida* (Bleeker)
- 441. *Cynoglossus lingua* Hamilton
- 442. *Paraplagusia bilineata* (Bloch)

## Family SOLEIDAE (Soles)

- 443. *Aesopia cornuta* Kaup
- 444. *Pardachirus marmoratus* (Lacepède)
- 445. *Solea bleekeri* Boulenger
- 446. *Zebrias quagga* (Kaup)

Order TETRADONTIFORMES  
Family TRIACANTHIDAE (Triplespines)

- 447. *Pseudotriacanthus strigilifer* (Cantor)
- 448. *Triacanthus brevirostris* Regan

## Family MONACANTHIDAE (Filefishes)

- 449. *Aluterus monoceras* (Linnaeus)
- 450. *Aluterus scriptus* (Osbeck)
- 451. *Amnases scopas* (Cuvier)
- 452. *Cantherhinus pardalis* (Lacepède)
- 453. *Oxymonacanthus longirostris* (Bloch & Schneider)
- 454. *Paramonacanthus japonicus* (Tilesius)
- 455. *Pervagor melanocephalus* (Bleeker)

## Family BALISTIDAE (Triggerfishes)

- 456. *Abalistes stellatus* (Lacepède)
- 457. *Balistapus undulatus* (Mungo Park)
- 458. *Balistoides viridescens* (Bloch & Schnider)
- 459. *Canthidermis maculates* (Park)
- 460. *Melichthys indicus* Randall & Klausewitz
- 461. *Melichthys niger* (Bloch)
- 462. *Odonus niger* (Rüppell)
- 463. *Pseudobalistes flavimarginatus* (Rüppell)
- 464. *Rhineacanthus aculeatus* (Linnaeus)
- 465. *Rhineacanthus rectangulus* (Bloch & Schneider)
- 466. *Sufflamen chrysopterus* (Bloch & Schnider)
- 467. *Sufflamen fraenatus* (Latreille)

## Family OSTRACIIDAE (Boxfish and cowfish)

- 468. *Lactoria cornuta* (Linnaeus)

469. *Ostracion meleagris* Linnaeus  
 470. *Ostracion cubicus* Linnaeus  
 471. *Tetrasomus gibbosus* (Linnaeus)

Family TETRAODONTIDAE (Puffers)

472. *Arothron hispidus* (Linnaeus)  
 473. *Arothron immaculatus* (Bloch & Schneider)  
 474. *Arothron mappa* (Lesson)  
 475. *Arothron nigropunctatus* (Bloch & Schneider)  
 476. *Arothron reticularis* (Bloch & Schneider)  
 477. *Canthigaster bennetti* (Bloch)  
 478. *Canthigaster solandri* (Richardson)  
 479. *Lagocephalus lunaris* (Bloch & Schneider)  
 480. *Lagocephalus scleratus* (Gmelin)

Family DIODONTIDAE (Porcupinefishes)

481. *Diodon hystrix* Linnaeus  
 482. *Diodon liturosus* Shaw

Class REPTILIA

Order TESTUDINES (Schedule I, Part II)

1. *Chelonia mydas* (Linnaeus) (Endangered)
2. *Dermochelys coriacea* (Linnaeus) (Endangered)
3. *Eretmochelys imbricata* (Linnaeus) (Endangered)
4. *Lepidochelys olivacea* (Eschscholtz) (Endangered)

Order SQUAMATA

5. *Laticauda colubrinus* (Schneider)
6. *Mabuya andamanensis* Smith (Endemic)
7. *Varanus salvator andamanensis* Deraniyagala (Endemic)

Class AVES

Order PELICANIFORMES

Family PHAETHONTIDAE

1. *Phaethon lepturus lepturus* Daudin, Longtailed Tropic Bird

Order CICONIIFORMES  
Family ARDEIDAE

2. *Ardea alba modesta* J.E.Gray, Eastern Large Egret
3. *Ardea cinerea rectirostris* Gould, Eastern Grey Heron
4. *Egretta sacra* (Gmelin), Eastern Reef Heron

Order FALCONIFORMES  
Family ACCIPITRIDAE

5. *Haliaeetus leucogaster* (Gmelin), Whitebellied Sea Eagle (Endangered)
6. *Milvus migranus govinda* Sykes, Pariah Kite
7. *Spilornis elgini* Blyth, Andaman Dark Serpent Eagle (Endemic & Schedule I, Part III)

Order GRUIFORMES  
Family RALLIDAE

8. *Amaurornis phoenicurus insularis* Sharpe, Andaman Whitebreasted Waterhen (Endemic)

Order CHARADRIIFORMES  
Family CHARADRIIDAE

9. *Charadrius asiaticus curonicus* Gmelin, Eastern Sand Plover
10. *Charadrius dubius curonicus* Gmelin, Little Ringed Plover
11. *Charadrius leschenaultii leschenaultii* Leson, Large Sand Plover
12. *Numenius arquata* (Linnaeus), Curlew
13. *Numenius phaeopus phaeopus* (Linnaeus), Whimbrel
14. *Pluvialis squafarola* (Linnaeus), Grey plover
15. *Tringa hypoleucos* Linnaeus, Common Sandpiper
16. *Tringa ochropus* Linnaeus, Green Sandpiper

Family LARIDAE

17. *Sterna Sterna bengalensis* Lesson, Indian Lesser crested Tern
18. *Sterna sumatrana* Raffles, Blacknaped Tern

Order COLUMBIFORMES  
Family COLUMBIDAE

19. *Chalcophas indica maxima* Hartert, Andaman Emerald Dove (Endemic & Schedule IV)
20. *Columba palumbiodes* (Hume), Andaman Wood Pigeon (Endemic & Schedule IV)

21. *Ducula aenea andamanica* Abdulali, Andaman Green Imperial Pigeon (Endemic & Schedule IV)

22. *Macropygia rufipennis andamanica* Abdulali, Andaman Cuckoodove (Endemic & Schedule IV)

Order PSITTACIFORMES  
Family PSITTACIDAE

23. *Psittacula alexandri abbotti* (Oberholser), Andaman Redbreasted Parakeet (Endemic & Schedule IV)

24. *Psittacula longicauda tytleri* (Hume), Andaman Red cheeked Parakeet (Endemic & Schedule IV)

Order CUCULIFORMES  
Family CUCULIDAE

25. *Eudynamys scolopacea dolosa* (Ripley), Andaman Koel

Order STRIGIFORMES  
Family STRIGIDAE

26. *Otus scops* (Linnaeus), Scops Owl (Endemic & Schedule IV)

Order APODIFORMES  
Family APODIDAE

27. *Collocalia esculenta affinis* Beavan, Whitebellied Swiftlet (Endemic)

28. *Collocalia fuciphaga inexpectata* Hume, Andaman Grey rumped Swiftlet (Endemic)

Order CORACIIFORMES  
Family ALCEDINIDAE

29. *Halcyon pileata* (Boddaert), Blackcapped Kingfisher (Schedule IV)

30. *Halcyon smyrnensis saturator* Hume, Andaman Whitebreasted Kingfisher (Endemic & Schedule IV)

Family MEROPIDAE

31. *Merops leschenaulti andamanensis* Marien, Andaman Chestnut headed Bee-eater (Endemic)

Order PASSERIFORMES  
Family ORIOLIDAE

32. *Oriolus chinensis andamanensis* Tytler, Andaman Blacknaped Oriole (Endemic & Schedule IV)

## Family DICRURIDAE

33. *Dicrurus andamanensis* (Hume), Andaman Drango (Endemic) & Schedule IV)

## Family STERNIDAE

34. *Acridotheres tristis tristis* (Linnaeus), Common Myna  
 35. *Gracula religiosa andamanensis* (Beavan), Andaman Hill Myna (Endemic)  
 36. *Sturnus erythropygius* (Blyth), Whiteheaded Myna (Endemic)

## Family CORVIDAE

37. *Corvus macrorhynchus levaillanti* Lesson, Jungle Crow

## Family PYCNONOTIDAE

38. *Pycnonotus atriceps fuscoflavescens* (Hume), Andaman Blackheaded Bulbul (Endemic & Schedule IV)

## Family MOTACILLIDAE

39. *Anthus cervinus* (Pallas), Redthroated Pipit

## Family NECTARINIIDAE

40. *Nectarinia jugularis andamanica* (Hume), Andaman Olivebacked Sunbird (Endemic & Schedule IV)

## Class MAMMALIA

## Order CHIROPTERA

1. *Pteropus giganteus* (Brunnich)

## Order CARNIVORA

2. *Paguma larvata tytleri* (Tytler) (Endemic)

## Order ARTIODACTYLA

3. *Axi axis* (Erxleben) (Schedule III)  
 4. *Sus scrofa andamanensis* Blyth (Endangered & Schedule I, Part I)

## Order RODENTIA

5. *Rattus rattus* (Schedule V)

## Order CETACEA

6. *Delphinus delphis* Linnaeus (Endangered & Schedule I, Part I)

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## REFERENCE

Pande, P., Kothari, A. and Singh, S. 1991. *Directory of national parks and sacntuaries in Andman and Nicobar Islands*. Indian Institute of Public Administration, New Delhi. 171 pp.



**PLATE-I**



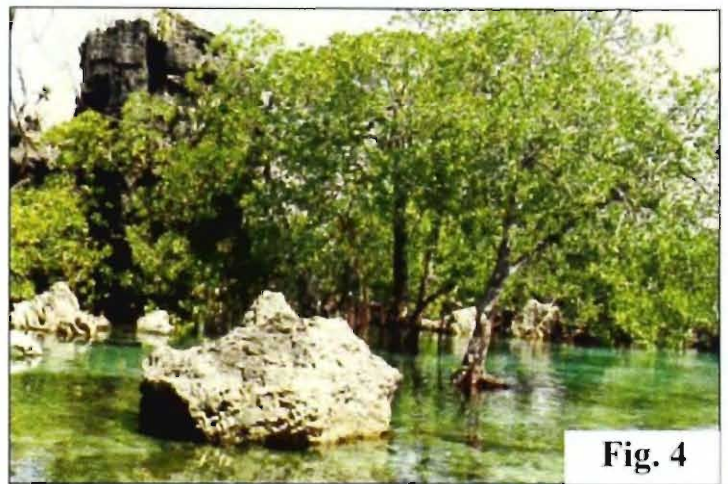
**Fig. 1**



**Fig. 2**



**Fig. 3**



**Fig. 4**



**Fig. 5**



**Fig. 6**



**Fig. 7**



**Fig. 8**

PLATE-II

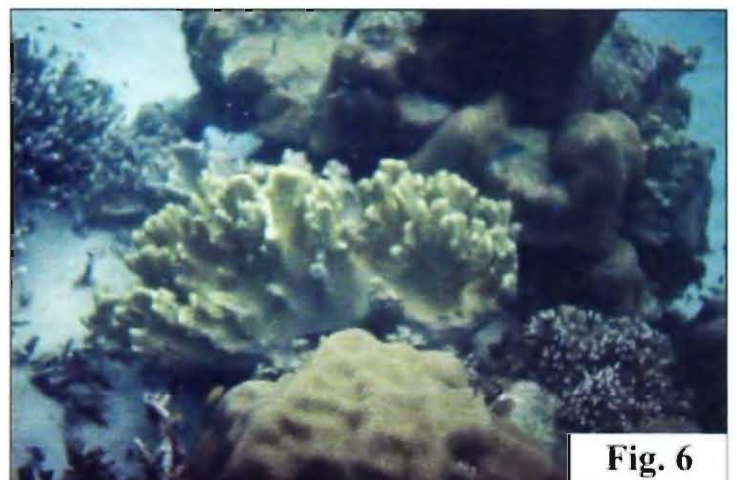
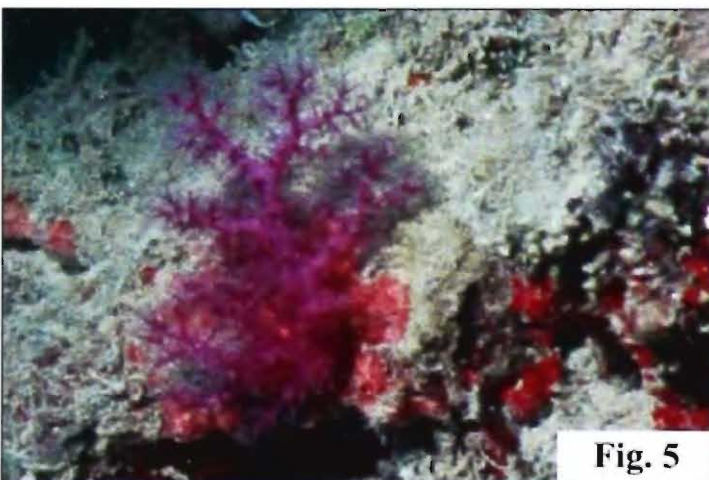
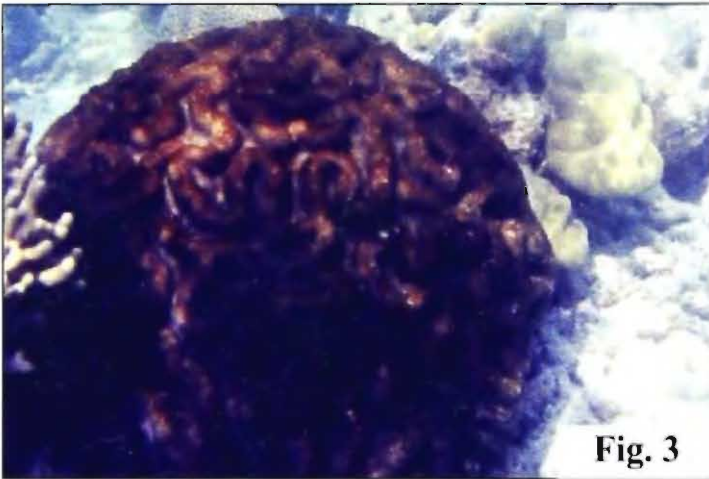
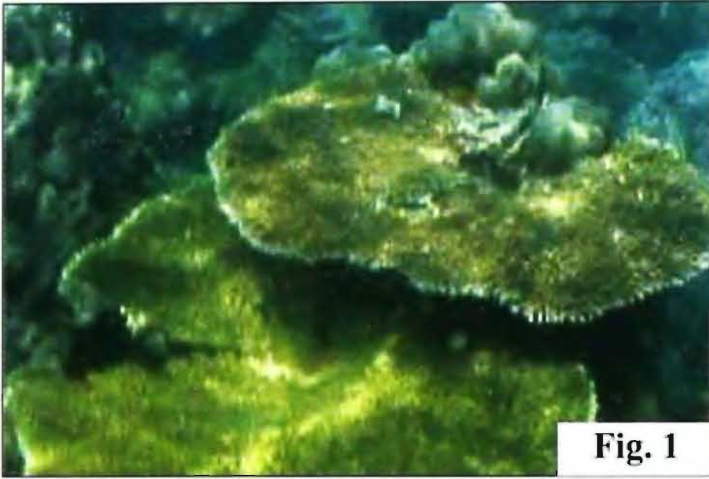


PLATE-III

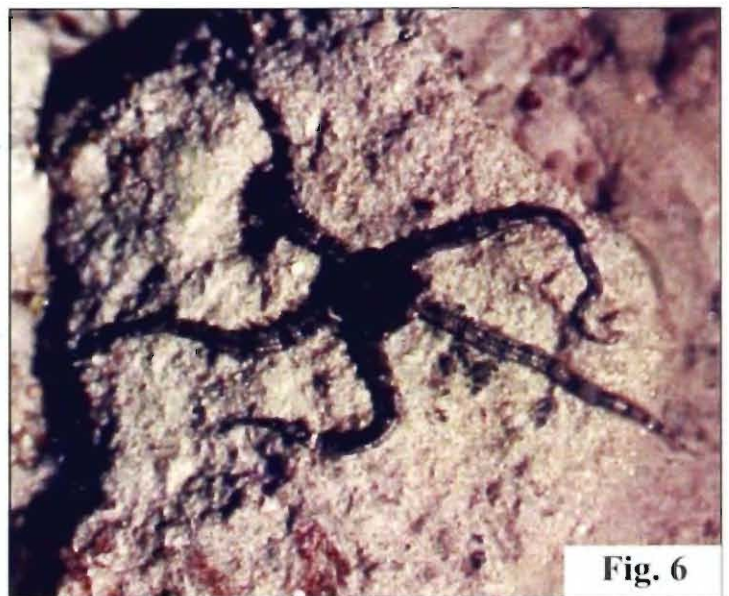


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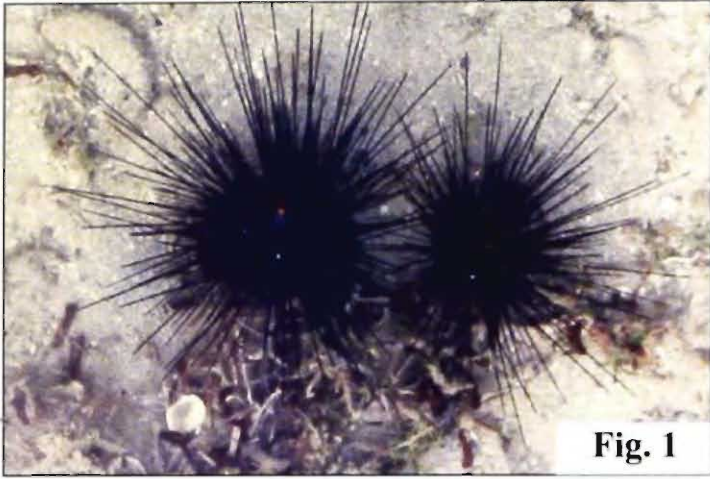


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

PLATE-V



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

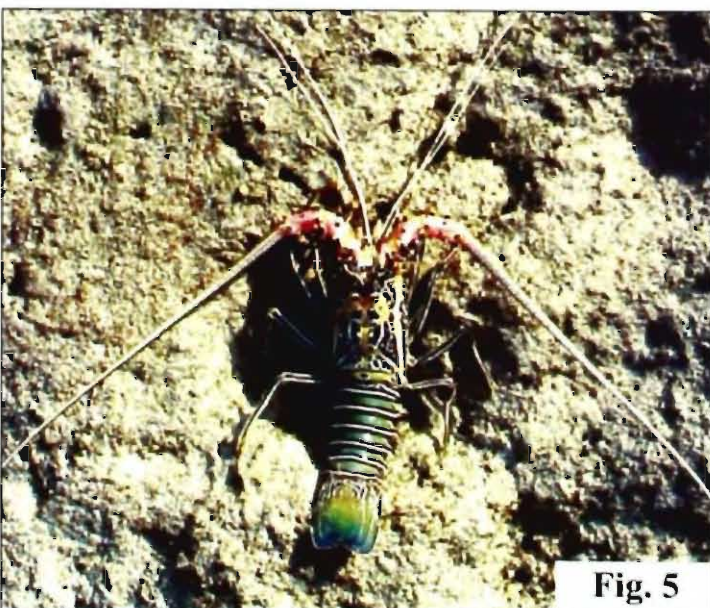
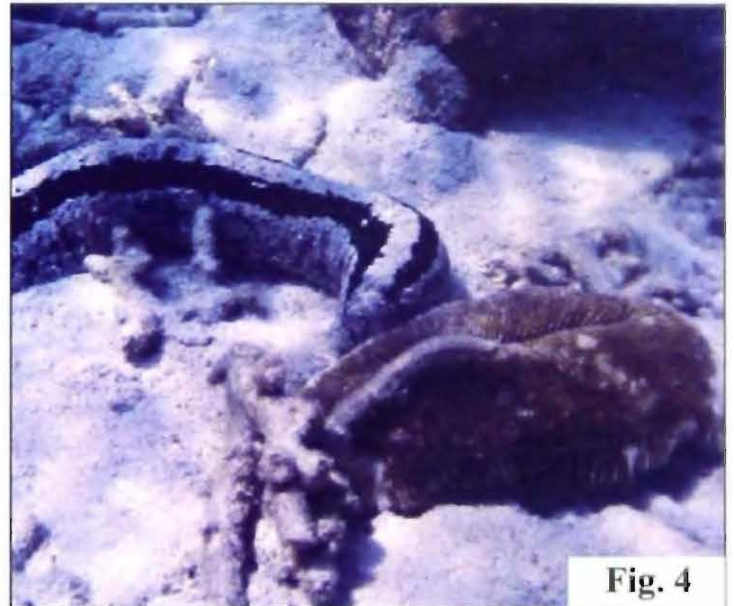
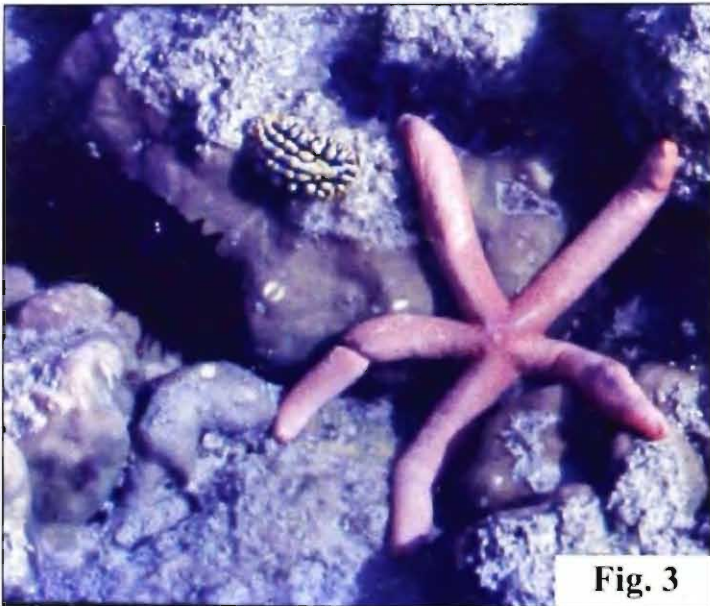
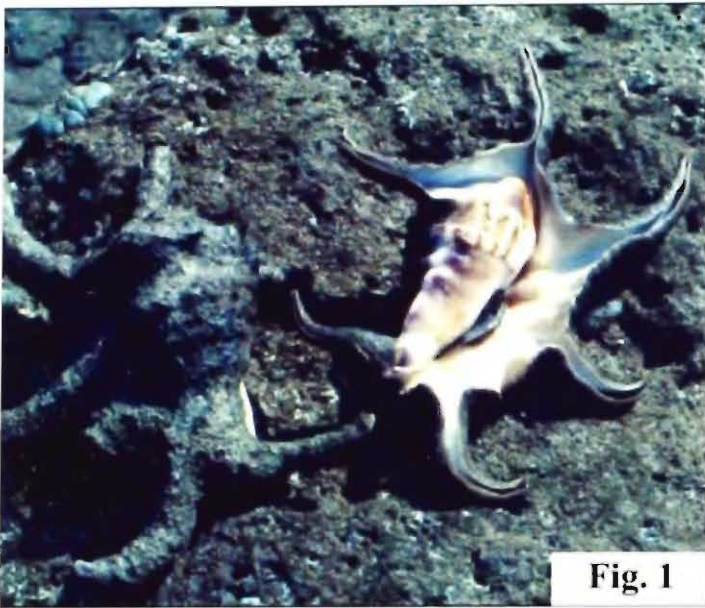


Fig. 7



Fig. 8

PLATE-VI



**PLATE- I**

- Fig. 1.** A view of South Button Island
- Fig. 2.** A view of Middle Button Island
- Fig. 3.** A view of North Button Island
- Fig. 4.** Mangrove patch at South Button Island
- Fig. 5.** Rocky coast of Middle Button Island
- Fig. 6.** Sandy shore of North Button Island
- Fig. 7.** Cluster of *Heliopora*, *Porites* and *Acropora* colonies
- Fig. 8.** Thick *Acropora* colonies

**PLATE- II**

- Fig. 1.** Huge plates of *Acropora hyacinthus*
- Fig. 2.** Massive colony of *Porites* sp.
- Fig. 3.** Colony of *Symphyllia* sp.
- Fig. 4.** Encrusted soft coral, *Sinularia* sp.
- Fig. 5.** *Nephthea* sp. on reef slope
- Fig. 6.** Soft coral *Lobophytum* sp.
- Fig. 7.** Crab of muddy area, *Ocypode ceratophthalma*
- Fig. 8.** Clam shell, *Tridacna squamosa*

**PLATE- III**

- Fig. 1.** Common Tiger Cowry, *Cypraea tigris*
- Fig. 2.** Spiny chiton, *Acanthopleura spinger*
- Fig. 3.** Topshell, *Trochus niloticus*
- Fig. 4.** Crown of Thorns Starfish, *Acanthaster planci*
- Fig. 5.** Cushionstar, *Culcita schmideliana*
- Fig. 6.** Brittlestar, *Ophiocoma dentata*

**PLATE- IV**

- Fig. 1.** Common seaurchin, *Diadema setosum*
- Fig. 2.** Seacucumber, *Synapta maculata*
- Fig. 3.** Sweetlips, *Diagrama pictum*
- Fig. 4.** Long-fin bannerfish, *Heniochus acuminatus*
- Fig. 5.** Wedgetailed triggerfish, *Rhinecanthus rectangulus*
- Fig. 6.** Emperor angelfish, *Pomacanthus imperator*
- Fig. 7.** Sea-snake, *Laticauda colubrina*
- Fig. 8.** Leatherback turtle, *Dermochelys coriacea*

**PLATE - V**

- Fig. 1.** Sand Plovers, *Charadrius leschenaultii*  
**Fig. 2.** Serpent eagle, *Spilornis elegini*  
**Fig. 3.** Andaman Wood pigeon, *Columba palumboides*  
**Fig. 4.** Whitebellied seaeagle, *Haliaetus leucogaster*  
**Fig. 5.** Black capped Kingfisher, *Halcyon pileata*  
**Fig. 6.** Andaman Orange tip Butterfly, *Ixias pyrene andamannica*  
**Fig. 7.** Andaman Tailed Jay, *Graphium agammemnon andamanica*  
**Fig. 8.** Andaman Mormon, *Papilio mayo*

**PLATE- VI**

- Fig. 1.** Scorpion shell, *Lambis chiragra*  
**Fig. 2.** Shells of *Nerita costata*  
**Fig. 3.** Seastar, *Linckia laevigata*  
**Fig. 4.** Seacucumber, *Holothuria atra* and fungiid, *Ctenactis echinata*  
**Fig. 5.** Common lobster, *Panulirus versicolor*  
**Fig. 6.** School of snappers, *Lutjanus kasmira*