

# VIDYASAGAR UNIVERSITY



~~SWARNAMOYEE JOGENDRANATH MAHAVIDYALAYA~~

**SUB - ZOOLOGI**

**FIELD NOTE BOOK**

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**EXAMINED**

**SESSION:-2021-2022**

# DEPARTMENT OF ZOOLOGY

TO WHOM IT MAY CONCERN



This is to certify that ..... Santanu Sasmal ..... Roll ... 1123152 .....  
No ... 210012 ....., Registration No. YU211040390 of ... 2021 - 2022 students of B.Sc.  
Semester-III, Zoology (Aquatic Biology, GE-3) of Swarnamoyee Jogendranath  
Mahavidyalaya for the session 2022-2023, submitted his/ her field report entitled as  
..... a visit to a marine bioreserve (Dighe and it's  
..... surrounding) .....

Based on field study conducted on 19.12.2022 & 20.12.2022 for partial fulfilment of the  
syllabus prescribed by Vidyasagar University. The report has been prepared under the  
supervision of Miss. Tanushree Das and may be placed before examiner for evaluation.

Raman 05/01/23

Dr. Ratan Kumar Samanta

*Principal*

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T. Das 05.01.23

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## ACKNOWLEDGEMENT

With deep sense of our respect, we would like to sincere gratitude to our most respectful teacher. Dr. Ratan Kumar Samanta. Dr. Anindya Kumar Bhaumik. Ms. Tanushree Das and non teaching staff Pradip Kumar Das, Susan Kumar Majhi. The depart ment of zoology, Swarnamoyee Jogendra Nath Mahavidyalaya for organizing and participating the said excursion to Digra and its surrounding.

We are also thankful to the authorities for giving us permission to visit Digra its biological observation under different habitat of animal.

We are also thanks are honourable principal of the college Dr. Ratan Kumar Samanta for giving us permission to organize such a valuable educational tour.

Santanu Sasmal.

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## ZOOLOGICAL EXCURSION

zoological excursion is aimed at acquiring knowledge in their own habitat, their life, eyes rather than their behaviour and their interaction. A student not only gain knowledge about the habitat i.e.

marine area in case of our trip but also to have a glance of the diversity of the animal fauna each in its own niche and a greater areas of habitat and in the ecosystem play its important roles. Thus zoology excursion is not only a pleasure trip for us but a learning experience for a student of zoology. It is also an exciting and memorable memory for us.

## IMPORTANCE OF ZOOLOGICAL EXCURSION

"It was a director of education, should reduce the time taken by lecture to one third of that time taken at present and make attendance in the field compulsory three hours a day"

— C. B. Robertson.

"The book worm" may have plenty of theoretical knowledge, but all are incomplete and worthless as they lack of the power of application. Therefore field study is arranged which may be concluded on the "Education without excursion"

## PLACE OF JOURNEY

▣ Mandarmani and its surroundings

▣ Talasari

▣ Digba Mohana

## ~ DATE OF JOURNEY ~

19.12.22 — 20.12.22



FIG ~ OUR TOUR TEAM



## TEAM MEMBERS OF DIGHA EXCURSION ~ ~

- 1) Biswajit Das
- 2) Sibaprasad Manna
- 3) Krishnendu Jana
- 4) Souman Acharya
- 5) Tanusree Broyen
- 6) Barsha Das
- 7) Rinki Khutua
- 8) Abhinandan Jana
- 9) Dibyendu Pramanik
- 10) Souvik Das
- 11) Subhajeet Maitty
- 12) Sanjay Beizi
- 13) Nayanika Jana
- 14) Santanu Sasmal
- 15) Kartik Jana

EXAMINED

## GUIDENCE OF OUR EXCURSION ~ ~

### □ The Teachers ~

1. Dr. Raju Kumar Samanta
2. Dr. Anindya Kisor Bhattacharya
3. Ms. Tanusree Das

### □ Laboratory staff members ~

1. Pradip Kumar Das
2. Sujan Kumar Majhi

## TOUR DIARY

Day : ~ 01

Date : ~ 19.12.22

Journey starts from Ambbad to Digba by three cars at morning. Arrive at mandaramoni' sea beach and observed the specimen then we went to hotel. After lunch we went to Talsari' sea beach. Then return back to hotel at.

Day: ~ 02

Date: ~ 20.12.22

visit to Digba Mondarmoni, Digba Mohona and fish market at morning at we collected some specimen. After breakfast check out hotel and profor. their proced for Amdabad by car.

Arrive Amdabad at 3.30 PM and excursion end.



FIG ~ Aurelia sp.



FIG ~ Asterias sp.

# 1st VISITED SPOT

## ~ Mandarmoni ~

We went to Mandarmoni at 9 A.M on 10.12.22. It is located on the shores of the Bay of Bengal. This beach is 13 km long. Mandarmoni sea beach surrounded by red crabs, and jellyfish, shell fish, squids and tiny sea fishes.

## ~ METHODOLOGY ~

During sample collections and observation, type of the substrate, abundance, habit and habitats of individual species were noted. Specimens were preserved in 70% alcohol or in 10% formalin after proper narcotization and attempts were made to identify all the collected specimens up to species level when ever possible.

EXAMINED



Separation of specimen.



## ~ SURVEL REPORT ~

NO	SCIENTIFIC NAME	LOCALNAME	PHYLUM
1	<u>Aurelia</u> SP.	Jelly fish	Cnidaria
2	<u>Asterias</u> SP.	starfish / sea star	Echinodermata

-- EXAMINED



## 2<sup>nd</sup> VISITED SPOT

### ~ Talsari Beach ~

We went to Talsari beach at 3:00 pm in the constitute apart of the alluvium coast the subarnarekha delta plain. located at northeastern side of Balasore district of Odisha and hardly 10-15 km away from Digha. Geographical co-ordination of Talsari is bounded in between  $21^{\circ}35'48''$  northern latitude and wide beach. The estuary of the river subarnarekha is 0.5 km to 1.5 km wide. Several types of marine habitats are found in this small area (2.5 sq. km. only), different types of faunal composition are found near in distinct zonation.

### ~ METHODOLOGY ~

During sample collections and observation type of the substrate, abundance, habitat and habitats of individual species were noted. Specimens were preserved in 70% alcohol after proper narcotization and attempts were made to identify all the collected specimens upto species level whenever possible.

## SURVEY REPORT

1. Common Jelly fish (Aurelia sp.)
2. Star fish (Asterias sp.)
3. Sea anemone (Metridium sp.)

NO	SCIENTIFIC NAME	LOCAL NAME	PHYLUM
1	<u>Aurelia</u> sp.	Common Jelly fish	Cnidaria
2	<u>Asterias</u> sp.	seastar / Star fish	Echinodermata
3	<u>Metridium</u> sp.	sea anemone	Cnidaria

## ~ DIGHA MOHONA ~

We went to Digha Mohona at morning time. Mohona means estuary in Bengali. Digha Mohona is located very close to Digha beach. Actually, it is one end of the Digha beach. Along the fish market there are stalls selling very fresh (shutki) and various types of fishes like as vetki, Pomfret, Bombay duck, Bel, stingray, shark, squid, catfish, octopus, fish crab.

## ~ METHODOLOGY ~

During sample collections and observation, type of the substrates, abundance, habit and habitats of individual species were noted. Specimens were preserved in 70% alcohol and the collected specimens up to species level whenever possible.



Fibr ~ Dry FISH



Fibr :~ Penaeus monodon

EXAMINED



Fiber ~ Loligo SP



Fiber : ~ Trigon SP



Fiber : ~ Pampus SP

## SURVEY REPORT

List of collected specimens in Digba Mohana.

1. Sting-ray (Torigon SP)
2. Shark (Scoliodon SP)
3. Eel (Anuilla SP)
4. Bombay duck (Harpodon neherensis)
5. Lobster
6. Octopus
7. Sepia
8. Loligo
9. Sea crab
10. Hilsa fish
11. Pamfret
12. Lates calcarifer.



Fibr ~ Sepia SP



Fibr :~ Macrobrachium osenbergi

EXAMINED



FIG 8 - Lobsters



FIG - Crab

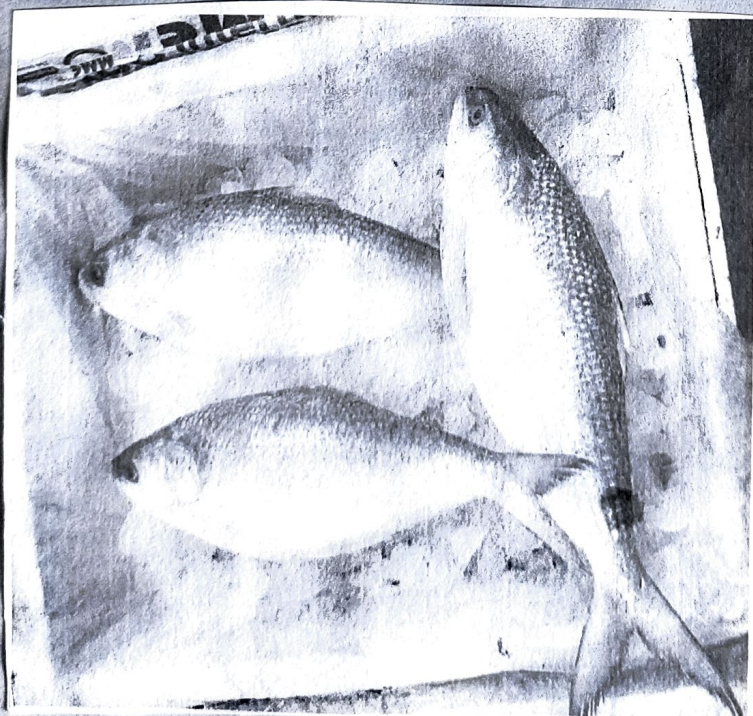


FIG 5 - Tenuulosa sp



N O	SCIENTIFIC NAME	LOCAL NAME	PHYLUM
1	<u>Trigon</u> SP.	Sting ray	Chordata
2	<u>Squaliodon</u> SP	Dog fish / Shark	Chordata
3	<u>Anquilla</u> SP	Eel fish	Chordata
4	<u>Harpodon</u> <u>nehereus</u>	Bombay duck	Chordata
5	<u>Penaeus</u> <u>monodon</u>	Tiger Prawn	Arthropoda
6	<u>Sepia</u> SP	Cuttle fish	Mollusca
7	<u>Loligo</u> SP	Squid	Mollusca
8	<u>Octopus</u> SP	Devil fish	Mollusca
9	<u>Pampus</u> SP	Silver Pomfret	Chordata
10	<u>Tenualosa</u> <u>ilisha</u>	Ilish fish	Chordata.

EXAMINED

N O	SCIENTIFIC NAME	LOCAL NAME	PHYLUM
1	<u>Trigon.</u> SP.	sting ray	Chordata
2	<u>scoriodon</u> SP	Dog fish / Shark	Chordata
3	<u>Annulla.</u> SP	Eel fish.	Chordata
4	<u>Harpodon.</u> <u>nehericus</u>	Bombay duck	Chordata
5	<u>Penaeus</u> monodon	Tiger Prawn	Arthropoda
6	<u>Sepia</u> SP	cuttle fish	mollusca
7	<u>Loligo</u> SP	Squid	mollusca
8	<u>Octopus</u> SP	Devil fish	mollusca
9	<u>Pampus</u> SP	Silver Pomfret	Chordata
10	<u>Tenulosa</u> <u>ilisha</u>	Ilish fish	Chordata.

EXAMINED

## HAPPY RETURNES

The tour was extremely beautiful joyous one. such type of educational tour always boost us to gain plenty of knowledge with practical views. The tour was certainly blessed a tool to serve the varied species containing "Digha mokona and man darmani and Talpuri" It was unique experiance. we all returned knowledge admixture with holy minute education from marine habitat

we are all greatful to our respected teachers without whose kind guidance and help the tour would not have been made possible.

T. Das

19.01.23

Examined

EXAMINED