Md. Nazmus Sakib

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Education

Bachelor of Science in Oceanography *Awarded: March 2024*
Shahjalal University of Science & Technology (SUST) *CGPA: 3.52 / 4.00*
Sylhet, Bangladesh

Masters of Science in Oceanography *Awarded:January*
Shahjalal University of Science & Technology (SUST) *CGPA: 3.96 / 4.00*
Sylhet, Bangladesh

Research Interests

Fisheries, Ocean Modeling, Marine Biology and Aquaculture, Coral Reef Ecology, Remote Sensing

Research Experience

Undergraduate Project:

Site Suitability Modeling of Asian Sea Bass (Lates Calcarifer) on Bakkahli and Naf River Estuary Using Generalized Additive Model(GAM).

- Performed a Generalized Additive Model that incorporated presence and absence data, in-situ physical parameter collection, satellite data and observation.
- The habitat and distribution of the Asian Sea Bass are significantly influenced by the salinity, depth and feeding behavior.
- The results indicated potential applications in to assist in providing comprehensive data regarding appropriate sites for establishing fish farms, as well as the distribution and migration patterns of Asian Sea Bass.

Keywords: *GAM, Lates calcarifer, habitat Sustability, Salinity, Estuary, Remote sensing.*

Graduate Project:

Assessing the Effects of Environmental Drivers on the Growth of Asian Sea Bass (Lates Calcarifer) and Mapping Potential Growth Zones in the Bakkhali-Maheshkhali Estuary Using Generalized Additive Models(GAMs).

- Using a Generalized Additive Model(GAM) to analyze data from Moheshkhali-Bakkhali estuary.
- Collected five key environmental variables—salinity, temperature, alkalinity, PH, DO to determine the optimal conditions for the growth of Asian Sea Bass.
- Using GAM model, we identified the Moheshkhali and Bakkhali River estuary as a particularly favourable region for Asian Sea Bass growth, especially during the summer season when environmental conditions are most conducive.

Keywords: *GAM, Lates calcarifer, Growth Modeling, Environmental Variables, Estuary.*

Poster Presentation

- *Md. Nazmus Sakib, MD Sajjadur Rahman.* ***"Predictive Site Sustainability Modeling Of Asian Sea Bass Using GAM(Generalized Additive Modeling) in Bakkhali and Naf River Estuary, Southeastern Coast of Bangladesh."*** *ICO 2024:International Conference on Oceanography, BORI, Cox's Bazar, Bangladesh.*

DOI

Skills

Programming:	Python, R, C
Softwares:	ArcGIS, SNAP, MATLAB
Oceanographic Tools:	Grab Sampler, Water Multi-parameter, pH Meter, Mini CTD, Plankton Net, Algal Torch
Laboratory Techniques:	Hydrometer Analysis, Kjeldahl Method, Walkley Black Method, Bioactive compound extraction, GC-MS, Kirby-Bauer Method
Office Tools:	Microsoft Office
Media:	FL Studio, Premier Pro, Canva
Operating Systems:	MAC OS**,** Windows OS
Creative Skills:	Multi-Instrumentalist, Music Production, Audio Engineering, Song-writing, Video Editing
Languages:	English, Bangla, and Hindi

Standarized Test Scores

IELTS – Overall Band: 7.5
Listening: 8.0, Reading: 8.0, Speaking: 7.0, Writing: 6.5

Certification

- **Internship: Integrated Multi-Trophic Aquaculture (IMTA) project along the southeast coast of Bangladesh. Funded by WorldFish Bangadesh.** *Certificate*

Leadership & Awards

- **Assistant General Secretary**,*RIM Musical Club* *2023 to 2024*
  Sylhet, Bangladesh
- **Executive Member**, *Barendro Association* *2021 to 2022*
  Sylhet, Bangladesh
- **National Science and Technology(NST) Scholarship** *2025*

References

Faisal Sobhan (Project Supervisor)
Assistant Professor
Dept. of Oceanography, SUST
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Dr. Subrata Sarker (Head of Department)
Associate Professor and Head
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