

Pretom Saha

📍 Chittagong, Bangladesh

☎ +880 1715-086385

✉ pretomsaha2018@gmail.com

🌐 Website

EDUCATION

Bachelor of Science

Department of Oceanography

Shahjalal University of Science and Technology, Sylhet

Awarded: March 2024

CGPA- 3.52/4.00

RESEARCH INTEREST

Geographic Information Systems (GIS), Remote Sensing, Geospatial Artificial Intelligence.

RESEARCH EXPERIENCE

Undergraduate Project

Dynamics of Shoreline Changes on Bhasan Char Island, Bangladesh: A Comprehensive Analysis from 2005 to 2023 Utilizing DSAS and GIS

- Performed automatic shoreline extraction on Bhasan Char Island using the Google Earth Engine JS API to quantify shoreline changes over time.
- Analyzed satellite imagery (Sentinel-2, Landsat) to assess the rates of erosion and accretion, providing critical insights into the dynamics of shoreline change.

Keywords: Shoreline Dynamics, Digital Shoreline Analysis System (DSAS), Geographic Information System (GIS).

Academic Project

Land Use and Land Cover Change Detection of Kutubdia Island using RS-GIS tools

- Utilized RS-GIS tools to create classification maps and detect land use and land cover changes on Kutubdia Island.

Research Assistant

Space and Environment Research Center (SERC), Bangladesh

- Conducted remote sensing analysis to monitor mangrove forest dynamics using multi-temporal satellite imagery.

POSTER PRESENTATION

- Pretom Saha, Abu Bokkar Siddique. "Dynamics of Shoreline Changes on Bhasan Char Island, Bangladesh: A Comprehensive Analysis from 2005 to 2023 Utilizing DSAS and GIS." ICO 2024: International Conference on Oceanography, BORI, Cox's Bazar, Bangladesh.

TECHNICAL SKILLS

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| GIS and Remote Sensing Skills | – Satellite/Digital Image Analysis – Spatial Statistical Analysis |
| Programming Language | – Python, Google Earth Engine |
| RS/GIS Software Skills | – ESRI ArcGIS Pro, ArcMap – QGIS – ERDAS IMAGINE – ENVI |
| Oceanographic Tools | – Grab Sampler, Water Multi-parameter – Mini CTD – Plankton Net – Algal Torch |
| Languages | – English – Bangla |

CERTIFICATIONS

Volunteer: “*International Symposium on Marine Resource Management*” by Shahjalal University of Science and Technology, Sylhet

STANDARDIZED TEST SCORES

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

REFERENCES

Abu Bokkar Siddique (Project Supervisor)
Lecturer
Dept. of Oceanography, SUST
Email: absiddique-ocg@sust.edu
Phone: +8801621492408

Dr. Subrata Sarker (Head of Department)
Associate Professor and Head
Dept. of Oceanography, SUST
Email: subratasrk-ocg@sust.edu
Phone: +8801710417753