

MD RONY GOLDER

Research associate at Fisheries and Marine Resource Technology Discipline, Khulna University, Khulna, Bangladesh.

Email: ronygolderku@gmail.com; mdrony.golder@postgrad.curtin.edu.au

Website: <https://ronygolderku.netlify.app/>

EDUCATION

MSc in Coastal and Marine Science: Khulna University, Khulna, Bangladesh (Jan 2019-Dec 2020), Supervisor: Prof. Muhammad Abdur Rouf, Thesis title: Seasonal and Annual Distribution of Particulate Organic Carbon (POC) in the Bay of Bengal Using Satellite Imagery

BSc in Fisheries: Khulna University, Khulna, Bangladesh (Jan 2015-Dec 2018), Supervisor: Shikder Saiful Islam, Thesis title: Effects of Different Experimental Diets and Salinity on Growth Performance of *Penaeus monodon*

AWARD

National Science and Technology (NST) Fellowship: awarded by the Ministry of Science and Technology of Bangladesh for outstanding research on Ocean color remote sensing.

RESEARCH EXPERIENCE

- (1) **Research Associate, Khulna University;** Sep 2021-Present
- Scientific Capacity Building in Assessing the Coastal Dynamics (Land-Use, Biodiversity and Ecosystem Services) including the Influence of Climate Change in the Coastal Zone –Towards a Locally Adapted MSP Framework. [CBA2021-04MY-Hossain].
Funded by: Asia-Pacific Network for Global Change Research (APN).
- Duties and Responsibilities:**
- Writing Review, Organizing workshop/Training
 - Land use land cover change detection using GIS
 - Biodiversity and Ecosystem services assessment
- (2) **Research Assistant, Khulna University;** July 2020-Aug 2021
- Spatial Distribution of Chlorophyll-a and POC and their Relation with Current and Oceanic Niño Index (ONI) in the northern Area of the Bay of Bengal Using Satellite Data
- Duties and Responsibilities:**
- Satellite data visualization & analysis with SeaDAS, R
 - Ocean Current data collection and visualized with ArcGIS
- (3) **Research Assistant, Khulna University;** July 2019-June 2020
- Seasonal and Annual Distribution of Particulate Organic Carbon (POC) in The Bay of Bengal Using Satellite Imagery
Funded by: Khulna University Research Cell (KURC), Khulna, Bangladesh.
- Duties and Responsibilities:**
- Satellite data collection, data visualization & analysis in SeaDAS, R, and Python
 - Ship-based sampling for in-situ data collection

PUBLICATIONS

- Golder, M. R. *et al.* Effect of different experimental diets and salinity on growth performance of *Penaeus monodon*. *Bangladesh J. Fish.* **33**, 275–282 (2021).
- Bir, J., Golder, M. R., Biswas, P., Tasrin, S. & Chowdhury, S. Z. Plastic pollution in an estuary: A preliminary study on the Rupsha river in southwestern Bangladesh. *Bangladesh J. Fish.* **33**, 295–304 (2021).
- Masud-Ul-Alam, M. *et al.* Spatial variability of the winter thermal inversion in the northern Bay of Bengal. *Reg. Stud. Mar. Sci.* **53**, 102417 (2022).
- Shuva, M. S. H., Golder, M. R., Rouf, M. A., Uddin, M. M. & Bir, J. Daytime and Nighttime Sea Surface Temperature (SST) along with Diurnal Variability (D-SST) in the Northern Bay of Bengal: A Remote Sensing Approach. *Thalass. An Int. J. Mar. Sci.* **38**, 697–708 (2022).

- Rouf, M. A., Golder, M. R. & Sumana, Z. A. Satellite-based observation of particulate organic carbon in the northern Bay of Bengal. *Environ. Adv.* **6**, 100124 (2021).
- Golder, M. R. & Rouf, M. A. Application of Ocean Color Remote Sensing for Managing the Bay of Bengal. *Bangladesh Marit. J.* **5**, 25–38 (2021).
- Bir, J. *et al.* A review on blue economy in Bangladesh : prospects and challenges. *Int. J. Agric. Res. Innov. Technol.* **7**, 21–29 (2020).
- Bir, J. *et al.* Growth performance and proximate composition of grey mullet *Liza parsia* at different salinities. *Bangladesh J. Fish.* **32**, 287–297 (2020).
- Bir, J., Golder, M. R. & Khalil, S. M. I. Adaptation in extreme underwater vent ecosystem : A case study on Pompeii worm (*Alvinella pompejana*). *Int. J. Fauna Biol. Stud.* **7**, 25–32 (2020).
- Rouf, M. A. *et al.* Production, Trading and Potential Utilization of Fish Scale in Khulna, Bangladesh. *Adv. Anim. Vet. Sci.* **9**, (2021).
- Golder, M. R. *et al.* Chlorophyll-a, SST and particulate organic carbon in response to the cyclone Amphan in the Bay of Bengal. *J. Earth Syst. Sci.* **130**, 1–9 (2021).

PROFESSIONAL TRAINING

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|---|---------------------|
| NOAA Coast watch Satellite Course | 3-7 May 2021 |
| NOAA Coastwatch | |
| Description: Introduction to ERDAAP, satellite data processing and visualization with R, ArcGIS, Python, Panoply, Merge tagged animal tracks with satellite data, Comparison of different satellite data. | |
| Using the Copernicus Marine Data Stream for Ocean Applications | 25 May-19 June 2020 |
| EUMETSAT, Copernicus Marine Service, EU | |
| Description: Use of Copernicus Sentinel-3 and CMEMS data for marine applications, Application of SNAP, Remote Sensing Digital Teaching Tool, Git, atmospheric correction including etc. | |
| Ocean Colour Remote Sensing – Data, Processing and Applications | 25 - 29 Nov 2019 |
| OTGA, IODE, ITCOcean | |
| Description: SeaDAS tool and plug-in for processing ocean colour data, different ocean colour algorithms, Generating and validating ocean colour remote sensing products, Basic understanding of ocean color applications like PP, HABs etc. | |

LANGUAGES

- Bengali:** Native Language
- English:** Fluent, IELTS (Overall) 6.5; (Medium of instruction in BSc (4 Years) and MSc (1.5 years))

COMPUTER SKILLS

- Programming:** HTML, CSS, JavaScript
- Applications:** SeaDAS, R, Python, ArcGIS, QGIS, SNAP, ODV
- Platforms:** Microsoft Office programs (Microsoft word, excel, PowerPoint, Outlook)

OTHER

- Research Interests:** Ocean Color Remote Sensing, Biological Oceanography, Marine Ecology, Chemical Oceanography, Satellite Oceanography, Observational Oceanography

REFERENCES

Dr. Muhammad Abdur Rouf, PhD
 Professor
 Fisheries & Marine Resource
 Technology Discipline
 Khulna University
 Khulna-9208, Bangladesh
 Email: rouf@fmrt.ku.ac.bd

Shikder Saiful Islam
 Associate Professor
 Fisheries and Marine Resource
 Technology Discipline,
 Khulna University, Khulna-9208, Bangladesh
 Email: shikdersaiful.islam@utas.edu.au,
shikdersaiful.islam@ku.ac.bd