

**Summer Field School [Online] on
 MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT
 Ivano-Frankivsk Region, Ukraine :: 19-28 September, 2021**

DELEGATE PARTICIPANT'S PROFILE

	<p>Dr. Sara Nowreen <i>Assistant Professor</i> Institute of Water and Flood Management (IWFM) Bangladesh University of Engineering and Technology (BUET)</p> <p>Dhaka, Bangladesh Tel: +8801553636657 Email: snowreen@iwfm.buet.ac.bd</p>
<p>Highest Education</p>	<p>Engineer, Ph.D. (Water)</p>
<p>Personal Statement</p>	<p>Dear colleagues! I am a Water Resources Engineer serving as an Assistant Professor in Institute of Water and Flood Management (IWFM) of Bangladesh University of Engineering and Technology (BUET). I so far have received 3 international and 2 prestigious national research grants as PI, namely, SDC-HUC-ICIMOD 2018 (\$25,000 in collaboration with Sikkim University, India), IFS 2018 (\$12,000), IFS 2014 (\$12,000), and national KGF fund 2019 (Tk ~87,00,000 in collaboration with BADC) and ICT innovation fund 2019 (Tk 20,00,000). Also, among three of my upcoming research projects, I will lead one, as the country-lead (€4,500), in collaboration with Utrecht University and one, as PI, shortlisted for the final round, namely APN-CRECS 2019 (\$28,000 in collaboration with TERI School of Advanced Studies, India and Tribhuvan University, Nepal). I am also a recipient of Charles Wallace Trust Professional Visit Grant 2016/17; Bangabandhu Fellowship and Commonwealth Split Site Scholarship at PhD level; SAWA fellowship for MSc; and international conference grants called CAS-TWAS-WMO 2018, RGCH-2016 and Adaptation Futures-2012. I am currently serving as a member (2020-2023), an associate editor, and a review editor on the International Editorial</p>

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	<p>Boards of Mountain Research and Development (MRD), Water and Climate, and Water and Human Health section of Frontiers. I have already published eleven international journals and nine international conference papers, four research reports and one book chapters and submitted seven more journals which are under review.</p> <p>My recent year research works incorporate diagnosing water security (via ICIMOD as PI), process understanding of shallow aquifer recharge mechanism (via IFS as PI), development of IoT enabled data logger and analyses of groundwater levels (via ICT as PI), synthesis of water histories related to interactions between environmental change and human activities (via GCRF collaboration as Co-I), hydraulics of surface water system (via FFEWAS collaboration as Co-I), and governance applicable to living polder strategies (via NWO project as Co-I). In past years, I was also strongly engaged in several other collaborative research projects, i.e., as a co-convener with University College London, UK during 2015-17 and as a Co-I with Met-Office, UK in 2012. My short research visits at the University College London, UK as a Visiting Academic Researcher (2013, 2016 & 2017) involved resilience of groundwater systems to climate change responses. Furthermore, the target of my research visit at the London Met Office, UK as a Visiting Scientist (2012) was to analyse changes of rainfall extremes for Bangladesh using Multi-member Ensembles of RCM. In her early career, she worked on in-stream flows (via IFS project as PI), interdisciplinary coastal water issues including salinity as well as stability and damage study of wave protection embankment. Details of me can be found at www.snowreen.buet.ac.bd.</p>
Paper/Presentation Title (Unpublished Research or Review or Field Work)	<i>Urbanising Watershed: What Lessons Dhaka Offers to Face Challenges</i>
Keywords	Downstream Megalopolis, Growing competition, Ecological security, Continuing challenges, Practical solution, Dhaka

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Abstract (100-300 words)	<p>Cities built downstream of a river basin are always prone to environmental risks like aggravated flooding, wetland reduction, compromised water quality, continuing water scarcity, and tainted air and these have been remarkable as the challenges while urbanizing bottom catchments. On top of that, rapid urbanization adds more to the deterioration of ecosystem functions. Drawing insights from Bangladesh experts capital Dhaka lying in the Ganges, Brahmaputra, and Meghna basin, this study basically appraises the common concerns of deltaic megapolises through a systematic literature review. The current literature has been brought up through analysing the status, factors and impacts of the challenges, and management by authorities. In addition, it is further updated with some urban experts' views, secondary records on groundwater levels, and remote sensing imageries. This paper also concludes with recommended guidelines from the reviews for more practical downstream urbanization, especially when there is no turning back for urban transferability to a new region of the catchment.</p>
More Information (weblinks)	<p>Website: http://snowreen.buet.ac.bd Google Scholar ID: https://scholar.google.com/citations?user=WZfMBi0AAAAJ&hl LinkedIn ID: https://www.linkedin.com/in/snowreen/ Twitter ID: https://twitter.com/NowreenSara ORCID: https://orcid.org/0000-0001-8116-4020 Academia ID: https://buet.academia.edu/SNowreen Research gate ID: https://www.researchgate.net/profile/Sara_Nowreen</p>