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RECEIVED 06 June 2024  
ACCEPTED 17 July 2024  
PUBLISHED 09 August 2024

CITATION  
Haq MI, Shamsudduha M, Zahid A, Ahmed KM,  
Kamal ASMM and Taylor RG (2024)  
Corrigendum: What drives changes in surface  
water salinity in coastal Bangladesh?  
*Front. Water* 6:1445197.  
doi: 10.3389/frwa.2024.1445197

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# Corrigendum: What drives changes in surface water salinity in coastal Bangladesh?

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## KEYWORDS

salinity, surface water, coastal, mega-deltas, global change, river discharge, tropical cyclones, sea level rise

## A corrigendum on

[What drives changes in surface water salinity in coastal Bangladesh?](#)

by Haq, M. I., Shamsudduha, M., Zahid, A., Ahmed, K. M., Kamal, A. S. M. M., and Taylor, R. G. (2024). *Front. Water*. 6:1220540. doi: 10.3389/frwa.2024.1220540

In the published article, there was an error in the Data Availability statement. We need to update the current data availability statement to provide clear guidance on how to access the data. The correct Data Availability statement appears below.

## Data availability statement

The datasets of surface water salinity, river discharge and rainfall in this article are not readily available because they are the property of the Government of Bangladesh and its agencies, the Bangladesh Water Development Board (BWDB) and Bangladesh Meteorological Department (BMD). Requests to access the datasets should be directed to these agencies through online data portals at the BWDB (<http://www.hydrology.bwdb.gov.bd/>) for surface water salinity and river discharge, and the Bangladesh Meteorological Department (BMD) (<https://dataportal.bmd.gov.bd/>) for rainfall. Summary statistics of these time series datasets can be made available upon request to the corresponding author.

In the published article, there was an error in the legend for [Figure 2](#) as published. In the legend of [Figure 2](#), there is a typo that reads “South Central (SW)”. The corrected figure appears below.

In the published article, the in-text citations for Akter et al., 2019 and Akter et al., 2020 were incorrectly written as “Akter et al., 2019, 2020” in the Introduction and in the Discussion. These Akters are two different authors. The revised in-text citations should be “Akter et al., 2019; Akter et al., 2020”. The reference details in the reference list were correctly listed.

The sentence in the **Introduction**, paragraph 2, previously read: “Previous research in low-lying Asian mega-deltas (Figure 1) has suggested a range of factors influencing the salinity of surface waters and groundwater (Yu et al., 2010; Salehin et al., 2018; Akter et al., 2019, 2020; Sherin et al., 2020; Bricheno et al., 2021; Feist et al., 2023; Raff et al., 2023).”

The corrected sentence appears below:

“Previous research in low-lying Asian mega-deltas (Figure 1) has suggested a range of factors influencing the salinity of surface waters and groundwater (Yu et al., 2010; Salehin et al., 2018; Akter et al., 2019; Akter et al., 2020; Sherin et al., 2020; Bricheno et al., 2021; Feist et al., 2023; Raff et al., 2023).”

The sentence in the **Discussion**, paragraph 1, previously read:

“Previous research (Yu et al., 2010; Salehin et al., 2018; Akter et al., 2019, 2020; Sherin et al., 2020; Bricheno et al., 2021; Feist et al., 2023) has identified three major factors that influence the salinity of surface waters in coastal deltaic environments in the tropics: (i) changes in the magnitude and seasonality of upstream river discharge; (ii) sea-level rise and seasonal tidal fluctuations; and (iii) the intensity and frequency of tropical cyclones and storm surges.”

The corrected sentence appears below:

“Previous research (Yu et al., 2010; Salehin et al., 2018; Akter et al., 2019; Akter et al., 2020; Sherin et al., 2020; Bricheno et al., 2021; Feist et al., 2023) has identified three major factors that influence the salinity of surface waters in coastal deltaic environments in the tropics: (i) changes in the magnitude and seasonality of upstream

river discharge; (ii) sea-level rise and seasonal tidal fluctuations; and (iii) the intensity and frequency of tropical cyclones and storm surges.”

In the published article, there were two errors in the supplementary file.

The Supplementary Figure S1 legend has an error. In the legend of Supplementary Figure S1, there is a typo that reads “South Central (SW)”. The correct legend should be “South Central (SC)”.

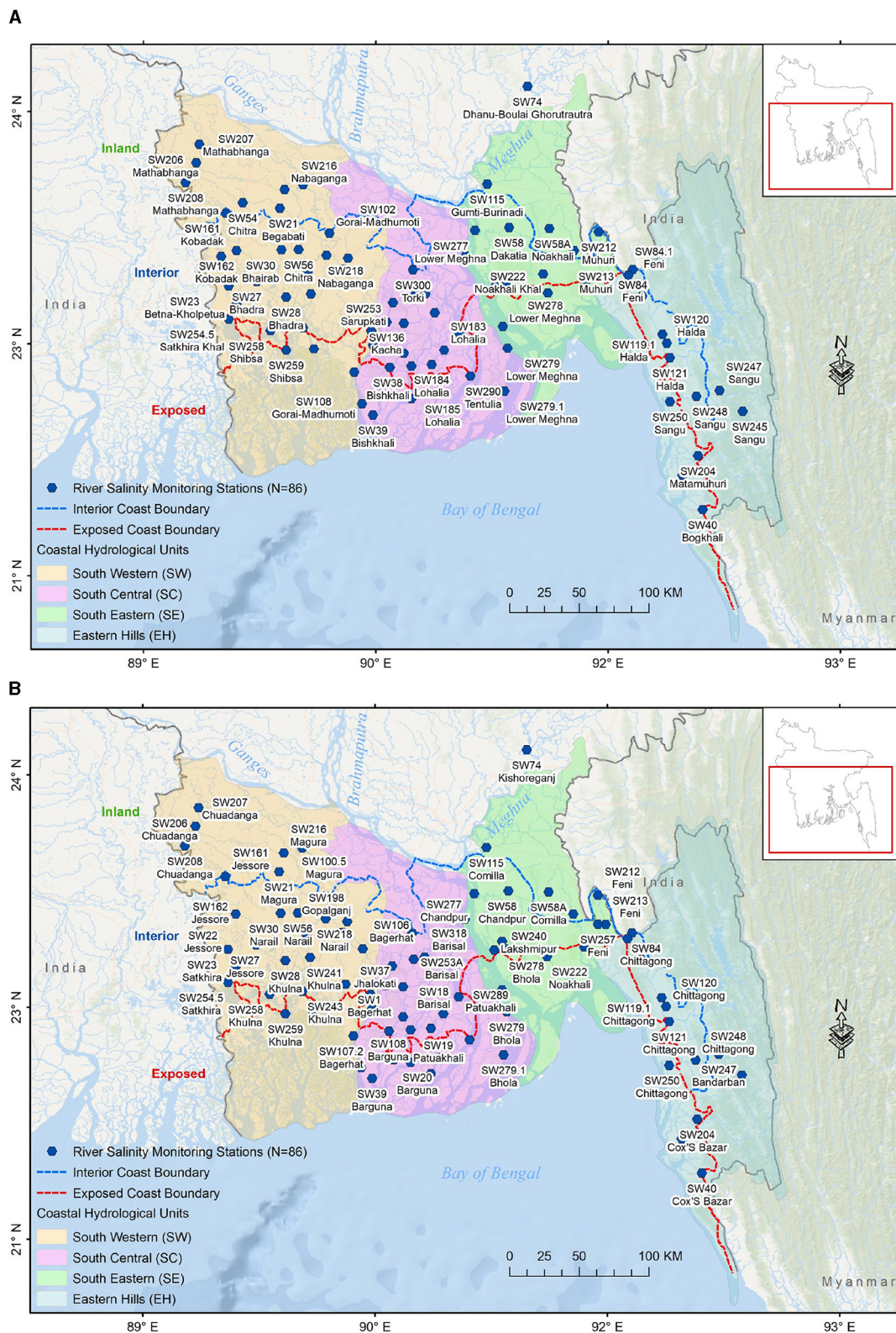
Additionally, in the Supplementary Material, in the affiliation section, there is a typo that reads “Md Izazul Haq<sup>1,2,\*</sup>”. It should be “Md Izaul Haq<sup>1,2,3\*</sup>”.

The supplementary material Data Sheet 1 has been updated in the original article.

The authors apologize for these errors and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

## Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.



**FIGURE 2**  
**(A)** Map of surface water salinity monitoring stations in Bangladesh ( $N = 86$ ) by Bangladesh Water Development Board (BWDB); red dashed line demarcates the boundary between the “exposed” and “interior” coast; blue dashed line demarcates the northern extent of the “interior” coast with the inland area (Uddin and Kaudstaal, 2003); blue dashed lines demarcate the area of coastal hydrological units: South West (SW), South Central (SC), South Eastern (SE) and Eastern Hills (EH) (Water Resources Planning Organization, 2001); **(B)** district headquarters. A detailed location map with the names of rivers, river discharge monitoring stations and rainfall monitoring stations used in this study is provided in the Supplementary Figure S1.