

Explanation of Requested Proof Corrections

Manuscript: A Century of Sea-Level Change in Ireland (1925–2024)

Manuscript ID: EGUSPHERE-2025-6404

Thank you for considering these requested corrections. The explanations below are provided to assist the editor in assessing whether the changes can be accommodated at the proofreading stage.

1. Correction of the Belfast sea-level rate: 0.74 to 0.73 mm yr⁻¹

Locations: Page 1, line 17; page 11, line 20; Table 3, page 12; and page 16, line 90.

Requested change: Replace 0.74 mm yr⁻¹ with 0.73 mm yr⁻¹ at all four locations.

Justification:

The reported Belfast rate of 0.74 mm yr⁻¹ resulted from a minor rounding error. The underlying value is 0.73423 mm yr⁻¹, which rounds to 0.73 mm yr⁻¹ to two decimal places. The value was inadvertently reported as 0.74 mm yr⁻¹. Although this minor discrepancy does not affect the interpretation or conclusions of the study, I would like to correct it for numerical accuracy and full transparency, ensuring consistency throughout the manuscript.

2. Clarification of the historical period reported by Carter (1982)

Location: Page 14, lines 35–38.

Current wording:

“These estimates can be compared with historical values reported by Carter (1982), who estimated MSL rates of 0.6 mm yr⁻¹ for 1938–1961 and –0.3 mm yr⁻¹ up to 1980.”

Proposed wording:

“These estimates can be compared with historical values reported by Carter (1982), who estimated an MSL rate of 0.6 mm yr⁻¹ before 1961 and a falling MSL trend of –0.3 mm yr⁻¹ from 1961 to 1980.”

Justification:

The phrase “up to 1980” does not explicitly identify the start of the period associated with the second rate. The proposed wording specifies the period as 1961–1980, aligning the description with the cited source and clarifying the historical timeframe for readers. This clarifies the period rather than changing the reported rates.

3. Correction of the numerical value attributed to Woodworth et al. (1999)

Location: Page 14, line 39, in the sentence immediately preceding the Carter (1982) sentence.

Requested change: Replace 0.2 mm yr^{-1} with 0.23 mm yr^{-1} .

Justification:

The value is currently reported as 0.2 mm yr^{-1} , whereas Woodworth et al. (1999) report a trend of 0.23 mm yr^{-1} for 1938–1996. The requested correction restores the numerical value reported in the cited reference and ensures accuracy in the historical comparison.

Closing statement

These requests are limited to one minor numerical correction arising from a rounding error, one clarification of a historical timeframe, and one correction to a numerical value reported in a cited reference. They do not involve new analyses or changes to the overall conclusions of the manuscript.

I appreciate that these changes require editorial approval at the proofreading stage and would be grateful for the editor's consideration.