

The manuscript demonstrates substantial improvement post-revision, with robust data supporting its conclusions and clear relevance to regional carbon budgeting. While minor issues persist (e.g., statistical clarity, uncertainty quantification), these are addressable through revisions:

Remaining Limitations:

Statistical Methodological Details: The statistical approaches (e.g., Welch's t-test) and corrections for multiple comparisons (e.g., Bonferroni) are not explicitly described, potentially undermining result reliability. Clarification in the Methods or figure captions is recommended.

Data Gaps and Continuity: Missing data handling during Ferry Box maintenance (e.g., interpolation or exclusion) and systematic biases from sensor replacements (e.g., pCO₂ sensor changed four times) require further discussion.

Uncertainty Quantification: While atmospheric station variability was addressed, the covariance between wind speed temporal variability and pCO₂ (e.g., high pCO₂ during spring tides coinciding with low winds suppressing fluxes) remains unassessed. Sensitivity analyses or expanded error margin discussions are advised.