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| Book Name: | [**Current Research on Geography, Earth Science and Environment**](https://bookstore.bookpi.org/product/current-research-on-geography-earth-science-and-environment-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6058** |
| Title of the Manuscript:  | **Sea-Surface Characteristics of the Newfoundland Basin of the Northwest Atlantic Ocean during the Last 145,000 Years: A Study Based on the Sedimentological and Paleontological Proxies** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Applied Sciences, 11(8), 3343, 2021.**

**Available:** [**https://doi.org/10.3390/app11083343**](https://doi.org/10.3390/app11083343)

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript fills an important gap by reconstructing sea-surface changes in the underexplored western subpolar North Atlantic over the past 145,000 years. Using foraminiferal and sedimentological proxies, it reveals how Heinrich events and shifting ocean currents impacted regional hydrography. The study offers new insights into gyre-specific variability and its role in past climate change, with implications for understanding the Atlantic Meridional Overturning Circulation (AMOC).** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **No. I would suggest changing the title** **“Last 145 kyr Sea-Surface Evolution in the Newfoundland Basin: Insights from Sedimentology and Micropaleontology”** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **No. I would suggest rephrasing a few sentences which are long.**  |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Yes.**  |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **Yes.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **The manuscript would benefit from a thorough language edit to correct grammatical inconsistencies and refine the tone before it is ready for publication.** |  |
| Optional/General comments | The manuscript presents a relevant study with strong potential. The study addresses an important gap in reconstructing surface water changes in the western subpolar gyre using core Hu90-08 and compares it with well-studied eastern subpolar gyre sites. It strengthens regional understanding of millennial-scale variability and water mass interactions during the last glacial cycle. The detailed comments are included in the manuscript.  |  |

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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**M C Manoj, Birbal Sahni Institute of Palaeosciences (BSIP), India**