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| Book Name: | [**Science and Technology: Developments and Applications**](https://www.bookpi.org/bookstore/product/science-and-technology-developments-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4755** |
| Title of the Manuscript: | **Numerical and Observational Study on Wave Conditions Near the Pilot Station** |
| 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.**

**Transportation Research Interdisciplinary Perspectives, 27, 101231, 2024.**

**Available:** [**https://doi.org/10.1016/j.trip.2024.101231**](https://doi.org/10.1016/j.trip.2024.101231)

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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.** | **The scientific significance of this manuscript lies in its ability to provide valuable insight into wave conditions at locations approaching pilot stations, which remains** **an important element in reducing maritime accident risk and ensuring efficient port intervention. The** **study combines detailed numerical simulations with observational data and provides valuable insight into the effects of port development, including the construction of an LNG terminal and longer breakwaters, on wave dynamics and pilotage operations.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The existing title, "**Numerical and Observational Study on Wave Conditions Near the Pilot Station,"** is straightforward but might be more descriptive. A suggested alternative title **"Numerical and Observational Analysis of Wave Conditions and Pilot Boarding Safety in an Expanding Port Environment"**. This revised title better reflects the study’s key aspects, including numerical modeling, wave conditions, and safety concerns related to pilotage. |  |
| 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. | The abstract is well-structured, outlining the study's aims, methodology, findings, and contributions. However, I recommend: Explaining the findings' importance for future port development initiatives. Determine if changes in wave diffraction patterns have a substantial influence on pilot safety or are minor adjustments. |  |
| **Is the manuscript scientifically, correct? Please write here.** | **The manuscript is scientifically correctt** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The references cited are generally relevant and include key sources related to marine meteorology, pilot safety, and wave modeling. However, some references appear to be older (e.g., from the 1940s–2000s), and it may be beneficial to incorporate more recent studies on wave-current interactions, port expansion impacts, and modern pilot boarding safety guidelines. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language used in the manuscript is generally clear and suitable for scholarly communication. However, there are a few instances where sentence structures could be improved for better readability. Some sections may benefit from minor grammatical refinements and the use of more precise technical terminology. A professional language review or proofreading could enhance clarity and coherence, particularly in the discussion and conclusion sections. |  |
| Optional/General comments | • The manuscript does a great job of bringing together both numerical and observational data, which really helps in understanding the wave conditions around pilot stations.  • It would be super helpful if there was a bit more clarity on how these findings could apply to other ports that are dealing with similar issues—just think how that could widen the study's impact!  • Also, adding some more discussion on possible strategies to tackle those extreme wave conditions might make this research even more useful for policymakers and those running the ports |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. 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)* |  |

**Reviewers:**

Oludi Kingsley, Rivers State University, Nigeria