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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.** | 1. **Data on marine meteorology are very important for the safety and efficiency of port activities that have a strong impact on the environment. This chapter provides a lot of useful information in this regard for the Taichung port area, central region of Taiwan Strait.**
2. **Cumulative data analysis offers the detection of anomalies that can generate risk probabilities for port traffic.**
3. **The mathematical apparatus used to create the wave and wind model is very well mastered and used to perform simulations in the chosen local conditions.**
4. **The author obtained results based on cumulative probabilities for specific wind and wave parameters for each season, highlighting the predominant directions with impact on the environment.**
5. **The validation of these results was carried out using simulations for different values ​​of the calculation model**
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| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **YES** |  |
| 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. | **YES** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **YES. Despite minor variations, wave height trends at the boarding area remain relatively consistent before and after expansion.****Numerical simulations according to the data of the study location, it certifies the important variations of the wave height in the embarkation port area. Using the results of the cumulative probabilities, it is certified that the proposed solutions can modify the wave diffraction patterns and reduce the uncertainties in the measurements of these waves.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **The reference are recent and sufficient.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **The language/ English quality is suitable for scholarty communications.** |  |
| Optional/General comments | The chapter of book is very interesting and useful for specialists in area of marine environment. Simulation results help address challenges associated with data gaps from a single measurement station, offering more reliable predictions and safety evaluations for boarding operations. |  |

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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:**

Panaitescu Mariana, Constanta Maritime University, Romania