Journal of Coastal Research (JCR)

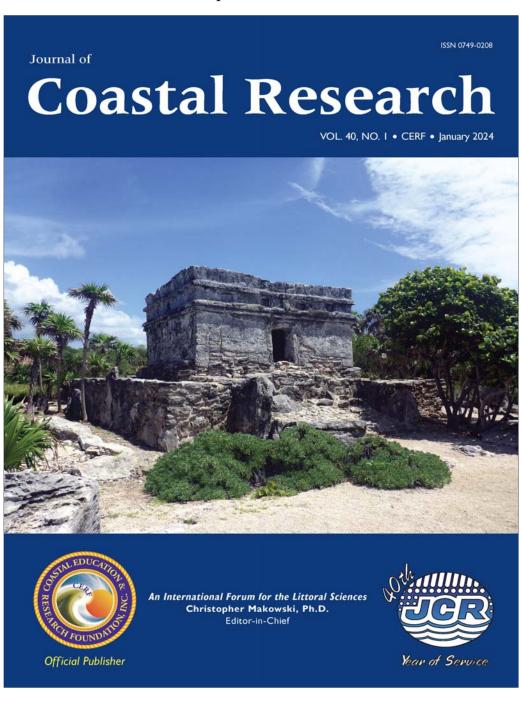
Official Publication of the Coastal Education and Research Foundation, Inc. (CERF)
https://www.cerf-jcr.org/

AUTHOR INSTRUCTIONS & SUBMISSION GUIDELINES



SCOPE OF THE JOURNAL

The *Journal of Coastal Research* (JCR) covers all fields of coastal research [e.g., geology, biology, ecology, geomorphology, physical geography, climate change, littoral oceanography, hydrography, sea-level change, coastal hydraulics, environmental (resource) management (law) and policy, coastal engineering, remote sensing, socio-economic themes, etc.] and encompasses subjects relevant to natural and engineered coastal environments (freshwater, brackish, and marine), as well as the protection (i.e. management and administration) of those resources within and adjacent to coastal zones (including large lakes, rivers, and seas) around the world. The JCR broadly focuses on coasts per se, but also embraces those coastal environments that extend some indefinite distance inland (i.e. to the edge of the coastal plain) or reach seaward beyond the outer margins of the sublittoral (neritic) zone (i.e. to the edge of the continental shelf). Consideration is also given to zones farther out to sea if the processes or materials affect the coast.



JCR EDITORIAL POLICY

The Journal of Coastal Research (JCR) is peer-reviewed and published in English by the Coastal Education and Research Foundation, Inc. (CERF). Submissions fall into one of the following main departments, which are included in most JCR issues: Research Articles (Professional Papers), Technical Communications (Methods, Procedures, Notes, or Highly-Technical Papers), Review Articles (Literature Review Papers), Editorials, Letters to the Editor, Discussions and Replies, Conference and Meeting Reports, News and Announcements, Coastal Photographs, Honors and Awards, Book Reviews, Dedications, In Memoriam, Errata (Corrigenda), etc. Other categories can also be submitted for acceptance into the JCR. Abstracts (in addition to the standard submitted abstract in English) can also be included using other native languages. For a full description of JCR's publication ethics, malpractice statement, and peer review policy, please visit: https://www.cerf-jcr.org/jcr-ethics

JCR Submission Categories Include:

RESEARCH ARTICLES

Original research papers are of primary interest to the JCR. Manuscripts dealing with coastal geology, marine biology, coastal geomorphology, physical geography, climate, ecology, sea-level change, littoral oceanography, hydrography, coastal hydraulics, environmental (resource) management (law) and policy, coastal engineering, remote sensing, socio-economic themes, *etc.* are all welcome. These professional papers should include a global context and are required to follow the standard main heading IMRAD formulation (*i.e.* INTRODUCTION, METHODS, RESULTS, ANALYSIS (if applicable), DISCUSSION, CONCLUSIONS). All other headings may serve as subheadings under these main headings. There must be text between all headings, as stacked headings are not accepted. All research article submissions are to be original works that abide by the JCR's publication ethics and will be subsequently peer reviewed.

REVIEW ARTICLES

Topical reviews of coastal research subjects, analysis of natural conditions, or examinations of coastal-human interventions may be submitted as review articles that are placed in either a regional or international context. Extensive literature reviews are also welcomed. Review article submissions must first pass a test of importance and relevancy by the JCR Editorial Staff. These contributions, which are peer reviewed in the usual manner, must be original works that abide by the JCR's publication ethics and may contain line drawings, photographs, and tables. Review articles are also expected to contain an extensive Literature Cited section. Although more limited in scope compared to research articles, review articles should follow the same general format; however, more flexibility with main heading titles will be granted and these submissions do not have to follow a strict IMRAD guideline. In the JCR, review articles are usually grouped together in a separate department after research articles and before technical communications.

TECHNICAL COMMUNICATIONS

Submissions dealing with new or improved techniques, procedures, notes, or methodologies may be submitted as technical communication papers. These submissions can also include method papers and highly-technical contributions. Technical communications are peer reviewed and must be original works that abide by the JCR's publication ethics. Although more limited in scope compared to research articles, technical communications should follow the same general format; however, more flexibility with main heading titles will be granted and these submissions do not have to follow a strict IMRAD guideline. In the JCR, technical communications are usually grouped together in a separate department after research and review articles, respectively.

DISCUSSIONS & REPLIES

Discussions of previously published research articles, technical communications, review articles, *etc.* are encouraged in this forum of the JCR to promote the exchange of ideas. These discussion items should identify the title and authors, as well as the JCR volume and issue in which the originally published item appeared. Discussions will be sent to the corresponding authors of the originally published items (by the JCR Editorial Staff) so that reply items may accompany the discussions. Rejoinders and further discussions are permitted, should the author(s) or responder(s) wish to extend the dialogue. Discussions and replies items should be submitted directly at: cerf.jcr@gmail.com

NEWS, ANNOUNCEMENTS, HONORS, & AWARDS

News items and announcements from supporting organizations, educational institutions, and other associations or societies with coastal themes and interests can be submitted to the JCR. Brief descriptions and photographs related to professional activities on an international, national, or regional scale are relevant here. Also included, are news features about people, honors, awards, or opportunities for fellowships, scholarships, and research funds. Any news, announcements, honors, and awards items should be submitted directly at: cerf.jcr@gmail.com

LETTERS TO THE EDITOR

This department contains informative commentaries or opinion pieces on any aspect of coastal technology, research, management, or policy. Letters to the Editor submissions may be subject to peer review and their acceptance is determined by the JCR Editor-in-Chief. Letters to the Editor items should be submitted directly at: cerf.jcr@gmail.com

LITERATURE REVIEWS, BOOK REVIEWS, & BOOKS RECEIVED

Topical literature reviews in specialized subjects should feature classical interpretations of contentious coastal issues, as well as modern developments. Selected book reviews and shorter listings of books received can also be submitted. These items should be submitted directly at: cerf.jcr@gmail.com

COASTAL & U/W PHOTOGRAPHS

Coastal and underwater photographs can also be submitted for publication in the JCR. They are either published in color or grayscale, as full single pages, with a descriptive extended caption (the photographer's affiliation should be provided with location and date taken). Previous JCR cover caption pages should be used as a guide to compose proper extended captions. Photographs should be submitted as an image file (.jpeg or .tif) with a resolution of at least 300 dpi. Grayscale coastal photographs are printed at no cost to the photographer. Quotes for printed color coastal photographs may be obtained after submission. Those submitted photographs that are deemed exceptional by the JCR Editorial Staff will be considered for potential JCR Core Collection front covers. Photographs should be submitted directly at: cerf.jcr@gmail.com



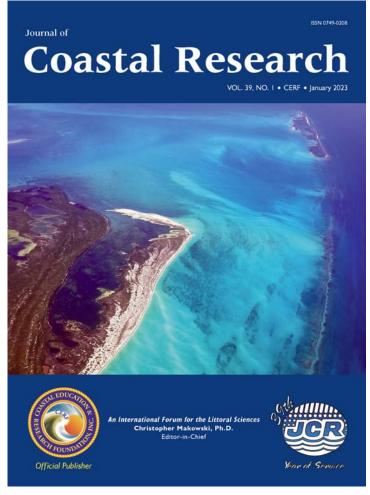
SUBMISSION TO THE JCR

There is a required, non-refundable manuscript submission fee for all submissions. This is not a publishing fee, but rather a non-refundable manuscript submission processing fee. This fee is required to offset third-party usage and maintenance costs associated with the electronic online Editorial Manager (PeerTrack) manuscript tracking and peer review system (http://www.editorialmanager.com/jcoastres/). Paying the submission fee does not guarantee acceptance of your submission, otherwise, that would be a conflict of interest. Only after a thorough peer review is your submission evaluated for either acceptance or dismissal.

Electronic submission of contributions is required; papers are no longer typeset from manual hard copies. When preparing a manuscript, it is essential to follow these author instructions explicitly, especially the formatting checklist in this document. Contributions not following these specifications (*i.e.* failing the technical check) will be returned to the respective author(s) for proper JCR manuscript formatting. **Please submit manuscripts for electronic submission tracking and processing at:** http://www.editorialmanager.com/jcoastres/.

It is not the responsibility of the editors or peer reviewers to rewrite poorly prepared manuscripts. Submissions may be declined solely on the basis of poor English usage and grammar. Authors who have difficulty writing with proper scientific English grammar may avail themselves by employing an English language editing service. The JCR Editorial Staff may require proof that an English language editing service was used in order to consider whether a submission is accepted or dismissed.

Research articles, technical communications, and review articles are peer reviewed in a timely manner by at least two professional referees. The peer review referees (JCR Editorial Board and external reviewers) assist the JCR Editorial Staff in obtaining comments and suggestions for improvement of the submissions. The Editor-in-Chief is ultimately responsible for the material published in the JCR. At any time, the Editor-in-Chief has the ability to withdraw a submission from consideration, even after it has been formally accepted. All material published in the JCR Core Collection will be made available online and printed in a hardcopy archive. CERF-JCR is not responsible, nor has any control, towards which indexing services feature JCR material. CERF-JCR is completely absolved from any requirements authors have prior to submitting. Open access requests can be made directly to the editorial staff of the JCR.



GENERAL MANUSCRIPT REQUIREMENTS

Manuscripts must be original contributions and cannot be concurrently submitted or considered for publication elsewhere. The following text formats are accepted for electronic submission: (*.doc, *.docx, and *.rtf). Submissions may be single- or double-spaced throughout. Manuscripts are to be prepared using a popular font (e.g., Helvetica or Times New Roman, 12 point font size) and include page and line numbers throughout. Do not use oversize letters or fancy fonts for headings or text. Book or journal titles and foreign words and phrases (et al., e.g., i.e., ca., and etc.) should be italicized. Symbolization used in mathematical formulae may be accompanied by marginal notes that identify the foreign characters (first occurrence only) for the typesetter. Authors are responsible for making their submissions clear, concise, and accurate, and should consult these guidelines for proper JCR formatting. Submissions that are not properly formatted will not pass the JCR technical check portion of the peer review process and will be returned for correction.

The following standard heading formats are set up to accommodate a majority of situations normally encountered in the JCR. Note that headings are unnumbered and their rank is normally determined by case and position on the page. There should be a short paragraph between all headings in the text, especially between main headings and subheadings to introduce the sections that follow. Stacked headings are not generally accepted.

FIRST ORDER MAIN HEADINGS ARE BOLD TYPE IN CAPITALS AND CENTERED

Second Order Subheadings: Upper and Lower Case, Bold, Flush Left

Third Order Subheadings: Upper and Lower Case, Bold, Indented

Fourth Order Subheadings: Upper and Lower Case, Bold, Indented as a Paragraph. Then the text that follows is run in.

An example of a properly formatted submission to the JCR is included at the end of these instructions. Authors should use this as a guide. Any questions related to the preparation and submission of manuscripts should be emailed to: cerf.jcr@gmail.com

Below is a description of some various components when organizing your manuscript:

TITLES

A good title will (a) briefly define the subject, (b) indicate the purpose of the contribution, and (c) give important, high-impact words early. Besides being descriptive, the title should also be concise (usually less than 15 words), except in outstanding circumstances. Titles should avoid using abbreviations, excessive notations, or proprietary names; and authors should avoid using unusual or outdated terminology. Also, conclusion statements and the words 'case study' should also be avoided when composing the title.

TITLE PAGE

The first page of the manuscript should contain: (1) a concise title; (2) full name(s) of the author(s), under the title in one or more lines; (3) affiliations (no P.O. Boxes or street addresses) and only one email address for the corresponding author; (4) a left running header (LRH) for authors' last names; and (5) a short right running header (RRH) of the title. Footnotes for new or current addresses may be added to this page. Other information, such as contribution numbers, PO or grant references, and financial support should be placed in the Acknowledgments section. A sample of a JCR manuscript title page is shown here:

Long-Term Equilibrium of a Wave Dominated Coastal Zone

Patricio L. Tavares^{†*}, Rodrigo Garcia[‡], and Ana P. Lopez[‡]

†Coastal Consultants Copenhagen 2400, Denmark *ptavares@example.com

[‡]Department of Geosciences University of the Atlantic Pomona, FL 33931, U.S.A.

LRH: Tavares, Garcia, and Lopez RRH: Coastal Zone Equilibrium

ABSTRACT

Because abstracts are viewed up to 500 times more than full papers, an abstract should convey information in a clear and concise manner. The general format of an abstract follows the classical **IMRAD** formulation (*i.e.* introduction, methods, results, analysis (if applicable), discussion, conclusions). The abstract (not more than 3% of the text or ≤ 300 words) should fall on the second page of the manuscript and avoid using bibliographic citations, figures, tables, equations, formulas, obscure abbreviations, or acronyms. Abstracts in other native languages may be provided in addition to the English version, but are not required.

ADDITIONAL INDEX WORDS

Please list several additional index words after the Abstract that are not found in the title. These words are useful to abstracting services and indexers who prepare lists for computer searches by subject. They are identified after the abstract as "ADDITIONAL INDEX WORDS:" and are listed in italic (scientific names are reversed italic), separated by commas, and ended by a period (full stop). Please make sure these words are not overly specific, but generic in such a manner that they will help direct researchers to your paper.

TABLES

Tables are submitted at the end of the manuscript text file or as a separate file (or files). They should be numbered consecutively, appropriately based, and kept as simple and short as possible. Longer tables can be submitted as supplemental appendices, which would appear at the end of the paper after the Literature Cited section. Units for all measurements should be shown in either column heads, spanner heads, or in other table fields. In general, only horizontal rule lines are used: a double rule line at the top, a single rule line below the box head, and a single rule line at the bottom just over the footnotes (if any); additional horizontal rule lines may be needed under spanner heads and subheads. Vertical rule lines within tables should be avoided. Please refer to recently published JCR article tables for proper formatting. Tables should be submitted in either .xls, .doc, or .docx formats. Table captions are italic and should be comprehensive in nature (*i.e.* should point out the most important features and indicate why the reader is viewing the table).

FIGURES & ILLUSTRATIONS

ALL FIGURES MUST BE UPLOADED AS SEPARATE IMAGE FILES (that is, not embedded in a text, WORD, or EXCEL file) with a minimum resolution of 300-600 dpi. Photographs and line drawings are numbered in Arabic numerals in a single sequence as "Figure 1," "Figure 2," etc., and so referred to in the manuscript text. All figures should be called out in the manuscript text as, for example, Figure 1 (not Fig. 1). Each figure must be clearly captioned and acknowledged when necessary. Figure captions must be included at the end of the manuscript in a "List of Figures." All approved figures will be reduced according to JCR standards, which may be less than the width of one column (85 mm). Figure sizes are finalized at the discretion of the JCR Editorial Staff, not the authors. Larger illustrations may be rotated sideways and printed as a turn-page (landscape view) to take advantage of maximum page size. The minimum size of a reduced letter should be about 1 mm high. For a figure that is to be reduced to 1/4 of its size (1/2 length of size), lines of 0.5 to 0.8 mm and 16 to 18 point bold are recommended. Computergenerated figures should be used. Magnifications should be given as bar lines in photographs or satellite images and defined in the caption, legend, or key. Maps and planimetric drawings should contain scales in bar lines as well as a north arrow directional sign. See recently published JCR article figures and captions for proper formatting of figures and captions. Figure captions should be comprehensive in nature (i.e. includes the importance of the figure, why the reader is viewing it, and a complete description of all the visual components; as per, EAA regulations).

Figures will not be placed out of numerical order. Figures are assumed to be grayscale or black and white (even if submitted in color), unless otherwise stated. If a figure is to be published in color, it must be indicated at the time of the initial submission. For charges associated with figure color production, see Publication Charges in these instructions.

<u>Digital Figure Guidelines:</u> Digital figure files that are allowed include: TIFF (.tif), EPS (.eps), PDF (high-quality), and JPEG (.jpg). Some of these formats are resolution-dependent, and the file resolution required for good quality printing is much higher than is required for viewing on a computer screen. Files that are created in programs or at settings that are "low" resolution will always retain the visual characteristics of low-resolution files regardless of what is

done to them later. A low-resolution file has a bitmapped (pixilated) appearance. The best file resolution for a figure file depends on the type of figure it is and what line-screen will be used to print the figure. Using resolutions that are higher than ideal does not serve any advantage. Ideal and minimum resolutions recommended for figures are provided in Table 1 below.

Table 1. Ideal and minimally acceptable figure resolution

Type of Figure	Ideal Resolution (dpi)	Min Resolution (dpi)
B/W Line Drawing	1200	600
Color	600	300
Color/Line Drawing Combination	600	300
Halftone	600	300
Line/Halftone Combination	600	300

Digital files that require excessive time to open will be dismissed. To avoid replacing a figure: crop excessive marginal white space, submit it in color even if it is intended to be published in grayscale or bitmap mode, and size the figure close to the final print size. If a figure has several subparts, they must be merged together, resaved as one figure file, and labeled appropriately (e.g., (A), (B), (C)...). Do not exceed the ideal resolution for the specific kind of figure. Figure file formats that are no longer allowed: MS WORD (.doc, .docx), WordPerfect, Excel (.xls), PowerPoint (.ppt), GIFF (.gif), Adobe Illustrator (.ai), Canvas, Adobe Photoshop (.psd), Quark documents, Corel Photo-Paint, PageMaker documents, Corel Draw, PictureViewer documents, Rich Text Format (.rtf.), .pic or .pcx, Metafiles, Harvard Graphics, Cricket Graph, Sigma Plot, and JNB.

APPENDICES & SUPPLEMENTAL MATERIALS

An Appendix, or multiple Appendices, may be submitted in the form of additional tables, figures, definitions, equations, or text. These items should be appropriately labeled and referred to in the manuscript text, as they will be printed as part of the publication. Supplemental materials, on the other hand, can be submitted as online-only supplements that will not be typeset or copyedited (i.e. these items will not be printed as part of the publication).

UNITS OF MEASURE

The S.I. system (*le System International d' Unites*) of reporting measurements, as established by the International Organization for Standardization in 1960, is required insofar as practical. Other units may be reported in parentheses or as the primary units when it would be impossible or inconvenient to convert to the S.I. system. Equivalent units may be given in parentheses when tables, figures, and maps retain units of the English system (Customary units).

SCIENTIFIC NAMES

Identifiers of plant and animal genera, subgenera, species, and lower taxa need to be in italic, with specific and lower epithets being written with a lower case initial letter. Nomenclature should follow the appropriate international code. Geological, ecological, and other scientific terms should follow standard usage or be defined the first time they are used in the paper.

EQUATIONS

Equations should be numbered in order (with the number in parentheses and flush right) throughout the manuscript text. Please keep in mind that elaborate equations often extend over several lines with many breaks. Alternatively, it may be advantageous to group long equations into a "Table," which can run across the full width of the page, thus allowing clearer presentation.

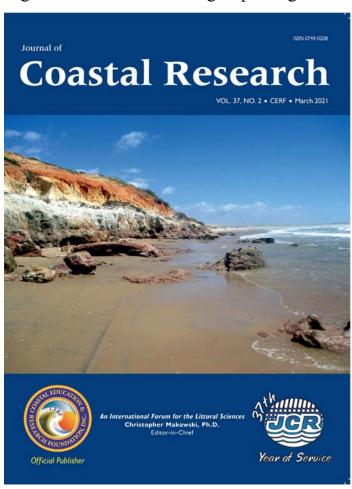
LITERATURE CITED

<u>In-Text Citations</u>: Citations are generally treated according to the modified "Harvard System." In the body of the manuscript text, they are cited by naming the author(s) and indicating the year of publication. For three authors or less, all names are given (Jones, Smith, and Andrews, 2005). When there are more than three authors, et al. is used (Finkl et al., 2005). Enclose the citation in parentheses if referring indirectly: e.g., "(Jones, 1988)" or "(Smith et al., 1989);" or enclose the year of publication in parentheses if referring directly: e.g., "according to Jones (1988)," or "from data prepared by Smith et al. (1989)." Multiple citations given together should be listed in alphabetical (not chronological) order and separated by semicolons. For example: (Andrews and Stewart, 2006; Jones, 2004; Jones, Andrews, and Stewart, 2003; Smith et al., 1961). For citations by the same authors with the same date, use this format: Jones (2013a,b) or (Smith, Roberts, and Cline, 2009a,b).

Literature Cited Section: Previous works cited throughout the text should be grouped together in

a listed section with the heading "LITERATURE CITED" (not References or Bibliography), that is arranged alphabetically by first authors' surnames. This section is unnumbered and located at the end of the body of the manuscript. All authors' names and initials are required (no space between initials and no use of et al.), followed by the year of publication and the full title of the published work. For periodicals, the full title of the periodical is given in italic, the volume and issue number in Arabic numerals, and the page number range. For books and encyclopedias, the title is given in italic, followed by the place (city and state or country) of publication, the bare name of the publisher, and the total number of pages.

It is the responsibility of the author(s) to scrupulously check the accuracy of references in the LITERATURE CITED section and to properly format them. Submissions will be returned to authors for improper formatting. Examples of proper reference formatting can be found on the next few pages.



EXAMPLES OF LITERATURE CITED FORMATS FOR THE JCR

Single-Author Paper in a Journal:

- Dickinson, W.R., 2000. Isostatic and tectonic influences on emergent Holocene paleoshorelines in the Mariana Islands, western Pacific Ocean. *Journal of Coastal Research*, 16(3), 735-746.
 - *Please note that issue numbers should be listed for all journal citations, if possible.*
- Klemas, V., 2011. Remote sensing technologies for studying coastal ecosystems: An overview. *Journal of Coastal Research*, 27(1), 2-17.

Two-Authored Paper in a Journal:

- Fairbridge, R.W. and Teichert, C., 1948. The low isles of the Great Barrier Reef: A new analysis. *Geographical Journal*, 3(1), 67-88.
- Lidz, B.H. and Hallock, P., 2000. Sedimentary petrology of a declining reef ecosystem, Florida Reef Tract (U.S.A.). *Journal of Coastal Research*, 16(3), 675-697.

Multi-Authored Paper in a Journal:

- Anthony, E.J.; Gardel, A.; Gratiot, N.; Proisy, C.; Allison, M.A.; Dolique, F., and Fromard, F., 2010. The Amazon-influenced muddy coast of South America: A review of mud-bank-shoreline interactions. *Earth-Science Reviews*, 103(1), 99-121.
- Finkl, C.W.; Estebanell Becerra, J.; Achatz, V., and Andrews, J.L., 2008. Geomorphological mapping along the upper southeast Florida Atlantic Continental platform; I: Mapping units, symbolization and geographic information system presentation of interpreted seafloor topography. *Journal of Coastal Research*, 24(6), 1388-1417.
- Martinez, J.O.; Gonzalez, J.L.; Pilkey, O.H., and Neal, W.J., 2000. Barrier island evolution on the subsiding central Pacific Coast, Colombia, South America. *Journal of Coastal Research*, 16(3), 663-674.
- Tomás, A.; Méndez, F.J., and Losada, I.J., 2008. A method for spatial calibration of wave reanalysis data bases. *Continental Shelf Research*, 27(8), 952-975. doi:10.1016/j.csr.2007.09.009
 - *Including DOI numbers is optional when printed page numbers are not available.*

Paper in a Journal of Coastal Research (JCR) Special Issue:

- Reed, C.W.; Brown, M.E.; Sanchez, A.; Wu, W., and Buttolph, A.M., 2010. The coastal modeling system flow model (CMS-Flow): Past and present. *In:* Rosati, J.D.; Wang, P., and Roberts, T.M. (eds.), *Proceedings, Symposium to Honor Dr. Nicholas C. Kraus. Journal of Coastal Research*, Special Issue No. 59, pp. 8-14.
- Tillman, T. and Wunderlich, J., 2013. Barrier rollover and spit accretion due to the combined action of storm surge induced washover events and progradation: Insights from ground penetrating radar surveys and sedimentological data. *In:* Conley, D.; Masselink, G.; Russell, P., and O'Hare, T. (eds.), *Proceedings from the International Coastal Symposium (ICS) 2013* (Plymouth, United Kingdom). *Journal of Coastal Research*, Special Issue No. 65, pp. 600-605.

Paper in a Proceedings Volume with Editors:

Ashton, A.D.; Murray, A.B., and Littlewood, R., 1980. The response of spit shapes to wave-angle climates. *In*: Kraus, N.C. and Rosati, J.D. (eds.), *Proceedings of the Sixth International Symposium on Coastal Engineering and Science of Coastal Sediment Processes* (New Orleans, Louisiana), pp. 351-363.

Paper in a Proceedings Volume with No Editor:

- Butenko, J. and Barbot, J.P., 1980. Geological hazards related to offshore drilling and construction in the Oronoco River Delta of Venezuela. *Proceedings of the Offshore Technology Conference* (Houston, Texas), Paper 3395, pp. 323-329.
- Goda, Y., 1970. The observed joint distribution of periods and heights of sea waves. *Proceedings of the 16th International Conference on Coastal Engineering* (Sydney, New South Wales, Australia), pp. 227-246.
- Uda, T.; Turner, R.E., and Hashimoto, H., 1982. Description of beach changes using an empirical predictive model of beach profile changes. *Proceedings of the 18th Conference of Coastal Engineering* (Cape Town, South Africa, ASCE), pp. 1405-1418.

Book; Commercial Publisher:

Darwin, C., 1842. The Structure and Distribution of Coral Reefs. London: Smith Elder, 214p.

Roberts, N. and Norseman, E.R., 1989. *The Holocene: An Environmental History*. Malden, Massachusetts: Blackwell, 316p.

Book; Government:

Fisk, H.N., 1944. *Geological Investigations of the Alluvial Valley of the Lower Mississippi River*. Vicksburg, Mississippi: U.S. Army Corps of Engineers, Mississippi River Commission, 78p.

Book; University Press:

- Pilkey, O.H.; Neal, W.J.; Kelley, J.T., and Cooper, A.G., 2011. *The World's Beaches*. Berkeley, California: University of California Press, 283p.
- Woodroffe, C.D., 2002. Coasts: Form, Process and Evolution. Cambridge: Cambridge University Press, 623p.

Chapter in an Edited Book:

- Oertel, G.F., 2005. Coasts, coastlines, shores, and shorelines. *In*: Schwartz, M.L. (ed.), *The Encyclopedia of Coastal Science*. Dordrecht, The Netherlands: Springer, pp. 323-327.
- Wang, Y. and Healy, T., 2002. Definition, properties, and classification of muddy coasts. *In*: Healy, T.; Wang, Y., and Healy, J.A. (eds.), *Muddy Coasts of the World: Processes, Deposits and Function*. Amsterdam: Elsevier, pp. 9-18.

Miscellaneous Reports with Specified Author:

- Farrow, D.R.G.; Arnold, F.D.; Lombardi, M.L.; Main, M.B., and Eichelberger, P.D., 1986. *The National Coastal Pollutant Discharge Inventory: Estimates for Long Island Sound*. Rockville, Maryland: National Oceanic and Atmospheric Administration, 40p.
- McKee, E.D., 1989. Sedimentary Structures and Textures of Río Orinoco Channel Sands, Venezuela and Colombia. U.S. Geological Survey Water-Supply Paper W2326-B, pp. B1-B23.
- Mehta, A.J. and Montague, C.L., 1991. A Brief Review of Flow Circulation in The Vicinity of Natural and Jettied Inlets: Tentative Observations on Implications for Larval Transport at Oregon Inlet, N.C. Gainesville, Florida: University of Florida, Department of Coastal and Oceanographic Engineering, Report UFICOELIMP91/03, 74p.
- Vann, J.H., 1969. Landforms, Vegetation, and Sea Level Change along the Coast of South America. Buffalo, New York: State University College at Buffalo, Technical Report No. 3, 128p.

Miscellaneous Reports without Specified Authors:

McClelland Engineering Staff, 1979. Interpretation and Assessment of Shallow Geologic and Geotechnical Conditions. Caracas, Venezuela: McClelland Engineering, Inc., Orinoco Regional Survey Areas, Offshore Orinoco Delta, Venezuela, 1, 109p.

U.S. Environmental Protection Agency Staff, 1994. The Long Island Sound Study: Summary of the Comprehensive Conservation and Management Plan. Washington, DC: U.S. Environmental Protection Agency Publication, EPA 842-S-94-001, 62p.

Theses and Dissertations:

Worthy, M.C., 1980. Littoral Zone Processes at Old Woman Creek Estuary of Lake Erie. Columbus, Ohio: Ohio State University, Master's thesis, 198p.

Zarens, S.M., 1996. Aeolian Processes in the Dutch Foredunes. Amsterdam, The Netherlands: University of Amsterdam, Ph.D. dissertation, 150p.

Maps or Charts:

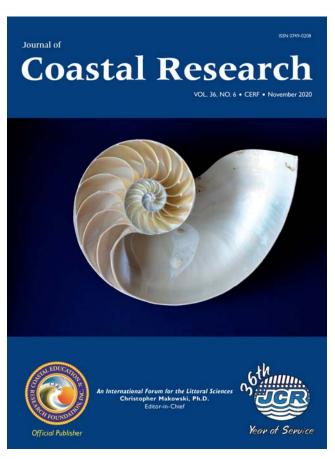
Beltran, C., 1993. *Mapa Neotectónico de Venezuela*. Caracas, Venezuela: FUNVISIS Departmento de Ciencias de la Tierra, scale 1:2,000,000, 1 sheet.

Websites:

Coastal Education and Research Foundation, Inc. (CERF), 2022. https://www.cerf-jcr.org.

Turner and Townsend, 2012. International Construction Cost Survey 2012 http://www.turnerandtownsend.com/construction-cost-2012/_16803.html.

United States Department of Agriculture, 1999. *The Federal Agriculture Improvement and Reform Act of 1996*. http://www.usda.gov/farmbill/title0.htm



AUTHOR FORMATTING CHECKLIST BEFORE SUBMITTING

The JCR Editorial Staff please requests that the authors read the JCR Author Instructions. We kindly thank the authors for addressing these formatting requests before your submissions can be peer reviewed.

- Please make sure the English grammar of your submission is suitable for publication in an international journal. Submissions can be dismissed solely on the basis of poor English usage.
- Change 'Keywords' to 'Additional Index Words.'
- Remove PO Boxes and street names from your affiliations. Also, the laboratory and college/department should be listed above the university.
- Italicize et al., e.g., etc., and i.e. throughout the text and make sure in-text citations are listed in alphabetical order. Also, add page and line numbers throughout the manuscript.
- Eliminate all numbers from headings.
- Please eliminate pronouns like 'we', 'I', 'our', and 'my' throughout your text. Proper technical writing should not use such phrases, as it makes the text too informal.
- Write out 'Fig.' as 'Figure' throughout the text.
- Have the main headings of: INTRODUCTION, METHODS, RESULTS, ANAYLSIS (when applicable), DISCUSSION, CONCLUSIONS. All others can be subheadings under these main section headings.
- Please add text between all headings, as we no longer accept stacked headings. For main headings (e.g., INTRODUCTION, METHODS, RESULTS, DISCUSSION), we only ask that you have a brief paragraph (2-3 sentences) in between the main heading and the first subheading to introduce the section. Technically, that is proper scientific writing protocol, so we've made it one of our formatting requirements.
- Have separate sections each for INTRODUCTION, METHODS, RESULTS, DISCUSSION, and CONCLUSIONS. Do not combine them.
- Change 'Concluding remarks' to 'CONCLUSIONS.'
- Change 'References' to 'LITERATURE CITED.'
- Review the LITERATURE CITED section and confirm that all citations and references are in proper JCR format according to the author instructions.
- Please confirm that each figure has been uploaded as a separate image file with at least 300 dpi. Consult the Digital Figure Guidelines in these instructions to confirm that you have uploaded proper figure file types with the minimum resolution required.
- Provide comprehensive captions for all figures and tables. The caption should include the importance of the figure/table, why the reader is viewing it, and a complete description of the visual components.
- If your figures have multiple parts (e.g., Figure 5a-c), all parts must be combined, properly labeled, and submitted as one figure file (e.g., Figure 5). Please consult the Digital Figure Guidelines in these author instructions and confirm that you have uploaded proper figure file types with the minimum resolution required.

EDITORIAL DECISIONS OF ACCEPTANCE AND DISMISSAL

Technical Check Failed (sent back to author)

These are submissions that have not met the formatting criteria of the JCR and are subsequently sent back to the respective author(s) for formatting revisions. Once an author reformats the manuscript properly, they can login again to the JCR manuscript submission website with their **Author Username and Password**. From their author main menu, they can click the **Submissions Sent Back to Author** option. Once they are brought to the next page, they can choose the **Edit Submission** option on the far left side, under the Action Menu. This will then allow them to upload the newly formatted manuscript without paying a new submission fee. If you have specific questions, they can be sent to: **cerf.jcr@gmail.com**

Accept (as submitted)

These include submissions suitable for publication without revision. This category is very rarely used, except in special circumstances where submissions have been reviewed and revised extensive prior to submission (e.g., via internal institutional peer review) or when submissions have been formatted properly according to the JCR Author Instructions and otherwise flawlessly prepared (i.e. scientifically and technically sound).

Provisionally Accepted Pending Minor Revision

These submissions require minor revisions within the context of the peer review comments. This can include minor changes to the manuscript text, as well as modifications to the figures and tables submitted. This recommendation is usually reserved for those submissions that have been formatted properly according to the JCR Author Instructions.

Provisionally Accepted Pending Major Revision

These submissions require major revisions in the context of the peer review comments. Major revisions normally entail recasting the paper, some kind of reorganization of topics, adding additional information or deleting extraneous data, correction of poor English via a grammar service, correction of illogical or logistical thought processes, and so on. Without extensive major corrections, the paper cannot proceed forward and ultimately be accepted.

Additional Review Required After Revision

These submissions are on the verge of rejection but are ultimately not declined as the reviewer feels the manuscript contains some value and might become acceptable if properly revised. These papers require more work than the 'major revision' category and will go out for a completely separate round of single-anonymized peer review.

Dismissed (Declined)

These papers are deemed out of scope, scientifically unsound, incomplete, inappropriate, biased, poorly written, poorly organized, or contain fatal flaws or any other property or unethical characteristic that precludes inclusion in an international scientific journal. Declined papers are terminal in this round of peer review, but may be resubmitted after extensive revision as a new contribution where the submission procedure and the peer review process starts anew.

ACCEPTANCE INTO THE JCR

The JCR Editor-in-Chief will make the final determination of acceptance or dismissal for any submitted items. This is usually contingent upon the author(s) thoroughly addressing the peer reviewers' comments with an official Response to Reviewers, which accompanies the revised manuscript. In the response, the authors are to cite each comment supplied by the reviewers and appropriately explain either how they complied with the comments or why they discarded the suggestions. Acceptance is largely based on the authors' responses.

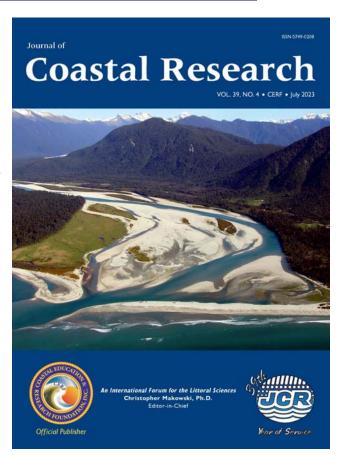
If acceptance is granted, authors will be given instructions on how to expedite the publication process for their submission. These expedited choices are strictly voluntary; as all accepted items will eventually print in the JCR according to the order our editorial office receives them (the JCR does not go by the acceptance date of a manuscript, but rather the date the typeset PDF proofs are received by the managing editor from the corresponding author). The only exception is if the Editor-in-Chief finds it necessary to withdraw an item even after it has been accepted. Also, the Editor-in-Chief reserves the right to correct any formatting the author failed to do (*e.g.*, amend the title, remove any stacked headings, correct grammar, *etc.*).

After a final adjudication of acceptance is given, the corresponding author will receive copyedited proofs to review. Once those are returned to the JCR Managing Editor, the authors will then receive typeset PDF proofs to review. We encourage all authors to take their time during this final review to ensure no mistakes occur in the final published item.

PROOFS & COPYRIGHT RELEASE FORMS

Electronic page proofs are sent (in PDF format) to the corresponding author. Proofs should be carefully checked for author alterations (AAs), printing errors (PEs), editing errors (EEs), etc., and returned promptly to the JCR editorial office. Excessive AAs and figure revisions can incur a charge, which is determined by the JCR Editorial Staff. There is no charge for PEs and EEs. Revision charges for alterations made at the proof stage will be billed separately to the corresponding author.

All authors must sign the JCR Copyright Release/Author Disclosure Form. The JCR Copyright Release/Author Disclosure Form is now submitted electronically when the first revision is submitted. If the authors refuse to sign a copyright release, the publication of their submission will be forfeited. The form can be downloaded online from: https://www.JCRonline.org



PUBLICATION OPTIONS AND FORMATS

<u>Pre-Print Orders:</u> After acceptance, authors may opt to pay for an online published pre-print; so at least while an author is waiting for the paper to print, a pre-print of the paper will be published online to cite and distribute. Any questions regarding pre-prints can be directed at: cerf.jcr@gmail.com

<u>Voluntary Page Charges:</u> Author page charges are not mandatory for the JCR. Being a non-profit foundation, we rely heavily on these generous contributions in order to help maintain the journal, as it subsidizes the publishing costs that CERF would usually have to pay. For those authors who choose to pay voluntary page charges, their articles are immediately placed at the top of our printing queue to be printed in the next available issue of the JCR. Any questions regarding voluntary page charges can be directed at: <u>cerf.jcr@gmail.com</u>

<u>Color Charges:</u> Color figure quote requests should be submitted directly at: <u>cerf.jcr@gmail.com</u>

Open Access: Open access requests should be submitted directly at: **cerf.jcr@gmail.com**

<u>Indexing:</u> CERF-JCR is not responsible, nor has any control, towards which indexing services feature JCR material. CERF-JCR is completely absolved from any requirements authors have prior to submitting.

<u>Published Formats:</u> All material published in the JCR Core Collection will be made available online at https://www.JCRonline.org and printed in the hardcopy archive.

<u>JCR Ethics:</u> For a full description of JCR publication ethics and the publication malpractice statement of the JCR, please visit: https://www.cerf-jcr.org/jcr-ethics

CERF-JCR INFORMATION

The Journal of Coastal Research (JCR), a leading international journal for coastal studies, is published by the Coastal Education and Research Foundation, Inc. (CERF). The JCR is peer-reviewed, published bimonthly, and encompasses all subjects relevant to coastal research worldwide.

Members of the Coastal Education and Research Foundation, Inc. (CERF) can receive print and/or online versions of the JCR as a benefit of their membership. CERF-JCR is a non-profit foundation dedicated to the advancement of the coastal sciences. The Foundation is devoted to the multidisciplinary study of the complex problems of the coastal zone. The purpose of CERF-JCR is to help translate and interpret coastal issues for the public and to assist in the development of professional research programs. The Foundation specifically supports and encourages field and laboratory studies on a local, national, and international basis. Through the publication of the JCR and the service of the worldwide web, CERF disseminates accurate information to both the general public and coastal specialists around the world. Our goal is to supply information pertaining to all aspects of coastal research in an effort to maintain and improve the understanding and quality of our planet's shoreline resources.

More information about CERF and the JCR, please visit:

https://www.cerf-jcr.org (Google Search: cerf-jcr); https://www.JCRonline.org (Google Search: JCRonline)





Journal of Coastal Research (JCR)

Official Publication of the Coastal Education and Research Foundation, Inc. (CERF)
https://www.cerf-jcr.org/

Example of a Properly Formatted Manuscript for the JCR



Cyclone Lahar and the Associated Wave **Characteristics:** A Numerical Modelling Approach Christopher Lapine^{†‡*}, Heather Vollmer[†], and Brian Gardnier[‡] †State Key Laboratory of Coastal Geosciences **Institute of Marine Geology and Oceanography** Western Atlantic University Coral Key, Florida 32100, U.S.A. [‡]Department of Marine Sciences **University of Bengal Bay** Chenaai 100049, India LRH (authors' last names): Lapine, Vollmer, and Gardnier RRH (short running title): Numerical Modelling of Cyclone Lahar *Corresponding Author (only one email address here): clapin@wau.edu

35 ABSTRACT

Natural hazards, especially tropical cyclones, are persistent visitors of Bay of Bengal which results in significant loss of life, damage to infrastructure, marine life, and biodiversity. This paper discusses the development of a cyclone model for the Bay of Bengal and adjoining the Andaman Sea, especially to understand the wave characteristics during cyclones of the Andaman Islands, and simulated the nearshore spectral wave characteristics of South Andaman during Cyclone Lahar, which hit the Islands from 23rd November 2013 to 26th November 2013. The spectral wave model of MIKE 21 developed by Danish Hydraulic Institute was used to simulate the wave characteristics of Bay Bengal and the Andaman Sea; whereas, the observed wave characteristics of a Wave Rider Buoy located at Port Blair, Andaman, was used for the validation of the model. A maximum simulated significant wave height of approximately 18 m was observed from the model of the cyclone and maximum simulated significant wave heights around 3.5 m were observed on the nearshore coastal waters of Port Blair, Andaman Islands.

ADDITIONAL INDEX WORDS: Nearshore wave characteristics, significant waves heights, Bay of Bengal.

51 INTRODUCTION

Tropical cyclones which are mostly associated with warm and moist air and due to this reason they originate only over warm ocean waters near the equator. The favourable conditions required for the formation of cyclones are: (a) Warm sea surface temperature, (b) Large convective instability, (c) Low-level positive vorticity, (d) Weak vertical wind shear of horizontal wind, and (e) Adequate Coriolis force (Dube *et al.*, 2020; Sarker, 2018). The development of cyclonic storms is a frequent phenomenon in the Bay of Bengal, and it accounts for about 7% of the global annual total number of cyclones (Dube *et al.*, 2020). The genesis of a cyclone is a regular feature in the pre-monsoon and (May) and post-monsoon (October to November) over Bay of

Bengal (Patra, Mohanty, and Mishra, 2015). Timely prediction of these storms can reduce the loss of human life and damage to infrastructure. Nateshan et al. (2013) have estimated the wave heights during cyclones Baaz, Fanoos, and 7B in the Bay of Bengal. Patra et al. (2015) developed a wave model to estimate and validate offshore wave characteristics of cyclones occurred in the Bay of Bengal from 2008 to 2009. Aboobacker et al. (2009) estimated the spatial characteristics of the nearshore waves of Paradeep, India during monsoons and extreme events. This paper is concentrated on Cyclone Lahar for illustrating the application of numerical modelling tools to simulate the waves generated by cyclones and to assess the nearshore wave characteristics due to the cyclone on the coastal waters of Andaman and Nicobar Islands. The Cyclone Lahar, which originated in the Bay of Bengal from 23rd to 28th November 2013, is categorized as a very severe cyclonic storm. It formed as depression over the Andaman Sea on 23rd November 2013 evening and intensified into cyclonic storm Lahar on 24th November 2013 near latitude 10.0°N and longitude 95.0°E. The salient feature of this particular cyclone was that it was the first severe cyclone storm to cross Andaman and Nicobar Islands after 1989. This cyclonic system crossed Andaman and Nicobar Islands near Port Blair at 0000 UTC of 25th November 2013 as a severe cyclonic storm. While moving west-northward direction over west central Bay of Bengal, this particular system weakened from 27th November afternoon and crossed Andhra Pradesh coast near to Machlipatanam around 8:30 UTC of 28th November 2018 as a deep depression i.e.it rapidly weakened over the sea from the stage of a very severe cyclonic storm to a depression in just 18 hours (IMD, 2014). The track of the cyclone is given in Table 1. For the simulation of a cyclonic model, a large domain is required. The model covers the Bay of Bengal and its wider surroundings including Andaman and Nicobar Islands as Lahar is the only cyclone that crossed the Islands after 1989. The MIKE 21 Spectral Wave Model developed by DHI (Danish Hydraulic Institute) is used in the present study to simulate the cyclone. The

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

assessment of nearshore wave climate of South Andaman Islands during cyclonic winds was the prime objective of the model simulation.

86 METHODS

The following part describes the generation of the model. Initially, wind and pressure fields of the Cyclone Lahar were generated. The generated fields were then incorporated into the regionally-developed model and finally the model was validated.

Wind and Pressure Field Generation

The cyclonic wind and pressure fields for Cyclone Lahar were generated by using MIKE 21 Cyclone Wind Generation tool. This tool generally computes the wind and pressure considerations due to cyclones by using different cyclonic parametric models such as Young and Sobey model, Holland-single vortex model, Holland-double vortex model and Rankine vortex model. The wind and pressure fields for Cyclone Lahar were generated by using Young and Sobey model. The cyclonic parameters used for the generation are: (a) Time, (b) Track of the cyclone, (c) The radius of the maximum wind speed, (d) Maximum wind speed, (e) Central pressure, and (f) Neutral pressure of the cyclonic system. The data required for the generation wind and pressure field was obtained from the IMD best track results. Figures 1 and 2 show an example for the wind and pressure fields of Cyclone Lahar on 23/11/2013 4:00 pm. These wind and pressure fields were used to drive the cyclonic wave model for the study.

Regional Model Setup of Bay of Bengal

A Regional model was setup for the study based on MIKE 21 Spectral Wave model giving special considerations for Andaman and Nicobar Islands by constructing finer mesh around the Islands. Various physical phenomena like wave growth by the action of wind, non-linear wavewave interactions, dissipation due to white capping, dissipation due to bottom friction, dissipation due to depth-induced wave breaking, wave refraction, wave shoaling and wave current-interactions were considered during the model development. The fully spectral

109 formulation used in the model was based on wave action conservation equation, where the directional-frequency wave action spectrum is the dependable variable. 110 This regional wave model covers the coastlines of India including the coastlines of Andaman and 111 Nicobar Islands, Sri Lanka, Myanmar and Indonesia (Figure 2). This model was then used to 112 simulate the generation and propagation of cyclone waves. An unstructured flexible mesh with 113 variable cell sizes was used in the model. The bathymetry required for the model was taken from 114 MIKE C-Map Global Database. 115 **Numerical Modelling of Waves for Cyclone Lahar** 116 The regional wave model which was set up for the present study was based on the MIKE 21 117 Spectral Wave model (SW), and this particular model was employed in simulating the growth 118 and propagation of the cyclonic waves. For this model, the fully spectral formulation with in-119 stationary time formulation was used. Low order numerical scheme was employed in the model. 120 Wave diffraction, wave breaking, bottom friction and white capping were also included in the 121 simulation of the model. With the JONSWAP fetch growth empirical formulations, the 122 123 quadruplet wave interaction were also included. The wave model for this study was driven by the wind speed and pressure field simulated, as 124 shown in Figures 1 and 2. The entire passage of Cyclone Lahar was covered until its landfall. 125 Validation of the Model 126 The simulated maximum significant wave heights were compared against the maximum 127 significant wave heights recorded by the Rider Buoy of NIOT at Port Blair (92.765°E, 11.661° 128 N). The simulated significant wave heights from the model are in good agreement with the 129 observed data hence proving a robust validation of the model. 130 131 132

133

134 RESULTS

The Cyclone Lahar model shows that a maximum significant wave height around 18.0 m has occurred at a location of 88.243898°E, 14.718843°N on 26th November 2013 22:00:00 hours. The two-dimensional distribution of wave heights is shown in Figure 2 for this particular time step. Table 1 indicates that the maximum wave heights were generated near the western coast of Andhra Pradesh. The timely distribution of significant wave heights at this location is shown in Figure 3 and indicates that maximum significant wave heights higher than 10 m were sustained approximately more than 28 hours and wave heights more than 16 m sustained approximately around 12-14 hours. Further analysis was done on the wave characteristics due to Cyclone Lahar on the nearshore coastal waters of Andaman and Nicobar Islands. The model shows a maximum significant wave height of 3.7 m has occurred at 92.753346°E, 11.642340°N (Carbyn's Cove Beach, Port Blair) on 25th November 2013 00:00:00 hours. A two-dimensional distribution of wave heights are shown in Figure 3. The temporal distribution of significant wave heights at this location is shown in Figure 3. The figure specifies that significant wave heights more than 3m sustained for approximately 5 hours.

150

152

153

154

155

156

157

158

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

151 DISCUSSION

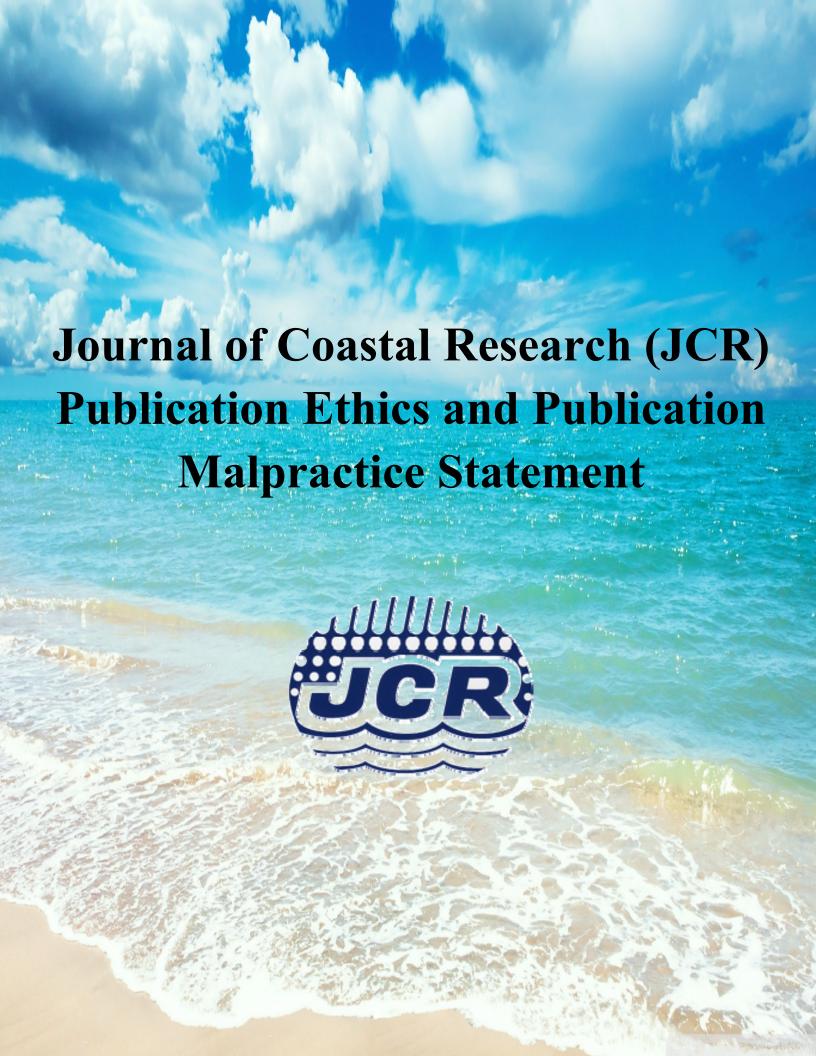
The model results indicate that Cyclone Lahar was a significant event which generated waves up to 18 m at the height of the storm. The cyclone moved west-northwestwards over the central Bay of Bengal. A better understanding of wave characteristics due to Cyclone Lahar on the near shore of Andaman and Nicobar Islands were achieved from this particular study and which is very important for these Islands that are vulnerable to natural disasters like tsunamis and cyclones. Numerical modelling techniques can be used as a better tool for making enhanced strategies for Disaster Risk Reduction and management specifically in the era of changing climate.

159	
160	CONCLUSIONS
161	The study underlines how numerical how a robust wave model can be utilized to simulate
162	offshore and nearshore wave characteristics and impacts of cyclones over coastal developments
163	and infrastructures. The methodology used in this for modelling cyclones in the Bay of Bengal
164	and Andaman Sea could be applied to other sites around the world that are affected by these
165	extreme events.
166	
167	ACKNOWLEDGEMENTS
168	The authors would like to thank Pondicherry University for the funding and lab facilities and
169	DHI, India for providing with all the necessary technical support.
170	
171	LITERATURE CITED
172 173 174	Aboobacker, V.M.; Vethamony, P.; Sudheesh, K., and Rupali, S.P., 2009. Spectral characteristics of the nearshore waves off Paradip, India during monsoon and extreme events. <i>Natural Hazards</i> , 49(2), 311-323.
175 176	Dube, S.K.; Chittibabu, P.; Sinha, P.C.; Rao, A.D., and Murty, T. S., 2020. Numerical modelling of storm surge in the Head Pay of Pancel using location specific model. Coastal Hazards, 31(2)
177	of storm surge in the Head Bay of Bengal using location specific model. <i>Coastal Hazards</i> , 31(2), 437-453.
178	
177 178 179 180 181 182	437-453. India Meteorological Department (IMD), 2014. A Preliminary Report on Very Severe Cyclonic
178 179 180 181	India Meteorological Department (IMD), 2014. <i>A Preliminary Report on Very Severe Cyclonic Storm 'LEHAR' over the Bay of Bengal</i> . Cyclone Warning Division, New Delhi, 27p. Natesan, U.; Rajalakshmi, P.R.; Ramana Murthy, M.V., and Ferrer, V.A., 2013. Estimation of wave heights during cyclonic conditions using wave propagation model. <i>Natural Hazards</i> , 69(3),

Table Captions Table 1. Simulations performed throughout the study. First column gives the acronym used for the simulation. Second column indicates if wave coupling is active or not. Third column indicates if the atmospheric pressure evolves with time (AROME) or not (constant value). **Figure Captions** Figure 1. (a) Triangular grid mesh of the coupled model, and tropical cyclone COOK track (colors indicate intensity range: orange is 24-33 m/s; red is 33-44 m/s; violet is 44-55 m/s), (b) zoom on the East coast of New Caledonia grid mesh. Figure 2. Maximum (a) 10-m wind speed (km/h), (b) wave height (m), (c) SSH due to inverse barometer effect (m), (d) SSH due to wave effects (m); zooms in (d): Ouvéa atoll and Poe lagoon. The yellow star offshore Poindimié indicates the position of the pressure sensor. Figure 3. Evolution of Hs (m) at the Fourmi station (yellow star in Figure 3). Blue is observations from the pressure sensor, black, red, and green are modelled Hs at the closest

model grid points with various depths.





Journal of Coastal Research (JCR) Publication Ethics and Publication Malpractice Statement



The Journal of Coastal Research (JCR) and its Publisher, the Coastal Education and Research Foundation (CERF), adhere to the Committee on Publication Ethics (COPE) Code of Conduct and Best Practice Guidelines, and it is expected of all authors, reviewers, and editors that they follow the best-practice guidelines on ethical behavior contained therein.

DUTIES OF EDITORS

Fair Play and Editorial Independence

Editors evaluate submitted manuscripts exclusively on the basis of their academic merit (importance, originality, study's validity, clarity, etc.) and its relevance to the journal's scope and purview, without regard to the authors' race, gender, sexual orientation, ethnic origin, citizenship, religious belief, political philosophy or institutional affiliation. Decisions to edit and publish are not determined by the policies of governments or any other agencies outside of the journal itself. The Editor-in-Chief has full authority over the entire editorial content of the journal and the timing of publication of that content.

Confidentiality

Editors and editorial staff will not disclose any information about a submitted manuscript to anyone other than the corresponding author, reviewers, potential reviewers, other editorial advisers, and the publisher, as appropriate.

Disclosure and Conflicts of Interest

Editors and editorial board members will not use unpublished information disclosed in a submitted manuscript for their own research purposes without the authors' explicit written consent. Privileged information or ideas obtained by editors as a result of handling the manuscript will be kept confidential and not used for their personal advantage. Editors will recuse themselves from considering manuscripts in which they have conflicts of interest resulting from competitive, collaborative, or other relationships/connections with any of the authors, companies or institutions connected to the papers; instead, they will ask another member of the editorial board to handle the manuscript.

Publication Decisions

The editors ensure that all submitted manuscripts being considered for publication undergo peer-review by at least two reviewers who are experts in the field. The Editor-in-Chief is responsible for deciding which of the manuscripts submitted to the journal will be published, based on the validation of the work in question, its importance to researchers and readers, the reviewers' comments, and such legal requirements as are currently in force regarding libel, copyright infringement, and plagiarism. The Editor-in-Chief may confer with other editors or reviewers in making this decision.

Involvement and Cooperation in Investigations

Editors (in conjunction with the publisher and/or society) will take responsive measures when ethical concerns are raised with regard to a submitted manuscript or published paper. Every reported act of unethical publishing behavior will be looked into, even if it is discovered years after publication. JCR editors follow the COPE Flowcharts when dealing with cases of suspected misconduct. If, on investigation, the ethical concern is well-founded, a correction, retraction, expression of concern, or other note as may be relevant, will be published in the journal and on the journal's website.

DUTIES OF REVIEWERS

Contribution to Editorial Decisions

Peer review assists editors in making editorial decisions and, through editorial communications with authors, may assist authors in improving their manuscripts. Peer review is an essential component of formal scholarly communication and lies at the heart of scientific endeavor. JCR shares the view of many that all scholars who wish to contribute to the scientific process have an obligation to do a fair share of reviewing.

Promptness

Any invited referee who feels unqualified to review the research reported in a manuscript or knows that its prompt review will be impossible should immediately notify the editors and decline the invitation to review so that alternative reviewers can be contacted.

Confidentiality

Any manuscripts received for review are confidential documents and must be treated as such; they must not be shown to or discussed with others, except if authorized by the Editor-in-Chief (who would only do so under exceptional and specific circumstances). This also applies to invited reviewers who decline the review invitation.

Standards of Objectivity

Reviews should be conducted objectively (without bias) and observations formulated clearly with supporting arguments so that authors can use them for improving the manuscript. Personal criticism of the authors is inappropriate and will not be tolerated.

Acknowledgement of Sources

Reviewers should identify relevant published work that has not been cited by the authors. Any statement that is an observation, derivation or argument that has been reported in previous publications should be accompanied by the relevant citation. A reviewer should also notify the editors of any substantial similarity or overlap between the manuscript under consideration and any other manuscript (published or unpublished) of which they have personal knowledge.

Disclosure and Conflicts of Interest

Any invited referee who has conflicts of interest resulting from competitive, collaborative, or other relationships or connections with any of the authors, companies, or institutions connected to the manuscript and the work described therein should immediately notify the editors to declare their conflicts of interest and decline the invitation to review so that alternative reviewers can be contacted.

Unpublished material disclosed in a submitted manuscript must not be used in a reviewer's own research without the express written consent of the authors. Privileged information or ideas obtained through peer review must be kept confidential and not used for the reviewer's personal advantage. This applies also to invited reviewers who decline the review invitation.

DUTIES OF AUTHORS

Reporting Standards

Authors of original research should present an accurate account of the work performed and the results, followed by an objective discussion of the significance of the work. The manuscript should contain sufficient detail and references to permit others to replicate the work. Review articles should be accurate, objective, and comprehensive, while editorial 'opinion' or perspective pieces should be clearly identified as such. Fraudulent or knowingly inaccurate statements constitute unethical behavior and will not be accepted.

Data Access and Retention

Authors may be asked to provide the raw data of their study together with the manuscript for editorial review and should be prepared to make the data publicly available if practicable. In any event, authors should ensure accessibility of such data to other competent professionals for at least 10 years after publication (preferably via an institutional or subject-based data repository or other data center), provided that the confidentiality of the participants can be protected and legal rights concerning proprietary data do not preclude their release.

Originality and Plagiarism

Authors should ensure that they have written and submit only entirely original works, and if they have used the work and/or words of others, that this has been appropriately

cited. Publications that have been influential in determining the nature of the work reported in the manuscript should also be cited. Plagiarism takes many forms, from "passing off" another's paper as the author's own, to copying or paraphrasing substantial parts of another's paper (without attribution), to claiming results from research conducted by others. Plagiarism in all its forms constitutes unethical publishing behavior and will not be accepted.

Multiple, Duplicate, Redundant, or Concurrent Submission/Publication

Papers describing essentially the same research should not be published in more than one journal or primary publication. Hence, authors should not submit for consideration a manuscript that has already been published in another journal. Submission of a manuscript concurrently to more than one journal is unethical publishing behavior and will not be accepted.

The publication of some kinds of articles (such as technical communications, notes, *etc.*) in more than one journal is sometimes justifiable, provided that certain conditions are met. The authors and editors of the journals concerned must agree to the secondary publication, which must reflect the same data and interpretation of the primary document. The primary reference must always be cited in the secondary publication.

Authorship of the Manuscript

Only persons who meet these authorship criteria should be listed as authors in the manuscript and they must be able to take public responsibility for the content: (i) made significant contributions to the conception, design, execution, data acquisition, or analysis/interpretation of the study; and (ii) drafted the manuscript or revised it critically for important intellectual content; and (iii) have seen and approved the final version of the paper and agreed to its submission for publication. All persons who made substantial contributions to the work reported in the manuscript (such as technical help, writing and editing assistance, general support), but who do not meet the criteria for authorship must not be listed as an author; rather, those individuals should be acknowledged in the "Acknowledgments" section after their written permission to be named has been obtained. The corresponding author should ensure that all appropriate coauthors (according to the above definition) and no inappropriate coauthors are included in the author list and verify that all coauthors have seen and approved the final version of the manuscript and agreed to its submission for publication.

Disclosure and Conflicts of Interest

Authors should—at the earliest stage possible (generally by submitting a disclosure form at the time of submission and including a statement in the manuscript)—disclose any conflicts of interest that might be construed to influence the results or their interpretation in the manuscript. Examples of potential conflicts of interest that should be disclosed include financial ones such as honoraria, educational grants or other funding, participation in speakers' bureaus, membership, employment, consultancies, stock ownership, or other equity interest, and paid expert testimony or patent-licensing arrangements, as well as non-financial ones such as personal or professional relationships, affiliations, knowledge or beliefs in the subject matter or materials

discussed in the manuscript. All sources of permitting and financial support for the work should be disclosed (including grant identifications or other reference numbers, if any).

Acknowledgement of Sources

Authors should ensure that they have properly acknowledged the work of others, and should also cite publications that have been influential in determining the nature of the reported work. Information obtained privately (from conversation, correspondence, or discussion with third parties) must not be used or reported without explicit, written permission from the source. Authors should not use information obtained in the course of providing confidential services, such as refereeing manuscripts or grant applications, unless they have obtained the explicit written permission of the author(s) of the work involved in these services.

Hazards and Human or Animal Subjects

If the work involves chemicals, procedures, or equipment that have any unusual hazards inherent in their use, the authors must clearly identify these in the manuscript. If the work involves the use of animals or human participants, the authors should ensure that all procedures were performed in compliance with relevant laws and institutional guidelines and that the appropriate institutional committee(s) has approved them; the manuscript should contain a compliance statement to this effect. Authors should also include a statement in the manuscript that informed consent was obtained for experimentation with human participants. The privacy rights of human participants must always be observed.

Peer Review

Authors are obliged to participate in the peer review process and cooperate fully by responding promptly to editors' requests for raw data, clarifications, proof of ethics approval, and copyright permissions. In the case of a first decision of "revisions necessary", authors should respond to the reviewers' comments systematically, point by point, and in a timely manner, revising, and re-submitting their manuscript to the journal by the deadline given.

Fundamental Errors in Published Works

When authors discover significant errors or inaccuracies in their own published work, it is their obligation to promptly notify the journal's editors or publisher and cooperate with them to either correct the paper in the form of an erratum or to retract the paper. If the editors or publisher learns from a third party that a published work contains a significant error or inaccuracy, then it is the authors' obligation to promptly correct or retract the paper or provide evidence to the journal editors of the correctness of the paper. Authors should contact the journal immediately when a retraction or correction is needed.

DUTIES OF THE PUBLISHER

Handling of Unethical Publishing Behavior

In cases of alleged or proven scientific misconduct, fraudulent publication, or plagiarism, the publisher, in close collaboration with the editors, will take all appropriate measures to clarify the situation and to amend the article in question. This includes the prompt publication of an erratum, clarification or, in the most severe case, the retraction of the affected work. The publisher, together with the editors, shall take reasonable steps to identify and prevent the publication of papers where research misconduct has occurred, and under no circumstances encourage such misconduct or knowingly allow such misconduct to take place.

Access to Journal Content

The publisher is committed to the permanent availability and preservation of scholarly research and ensures accessibility by partnering with organizations and maintaining our own digital archive. For details on the JCR's archiving policy, please view www.JCRonline.org and contact us at: cerf.jcr@gmail.com





Journal of Coastal Research (JCR) Peer Review Policy



The Journal of Coastal Research (JCR) and its Publisher, the Coastal Education and Research Foundation (CERF), adhere to a strict peer review policy in order protect the integrity of the journal, the authors, the scientific community readership, and the abstracting/indexing services that present JCR published material. The JCR Peer Review Policy is a multi-tiered process, as described below, which includes several levels of extensive evaluation to ensure the highest quality scientific material is accepted for publication.

Level I. TECHNICAL REVIEW AND PLAGIARISM CHECK

When a new manuscript, or any other submission, is received by the JCR, editorial staff conducts an extensive review of the formatting and technical components of the submission to ensure the material was prepared properly. It is not the responsibility of the editors or peer reviewers to rewrite poorly prepared manuscripts. Submissions may be declined solely on the basis of poor English usage and grammar. Proper formatting of the submitted materials must also pass the author formatting checklist that is available in the official JCR Author Instructions. Submissions will be returned to authors who have not prepared their items properly according to the formatting criteria of the JCR. These submissions are sent back to the respective authors for formatting revisions. Once the authors reformat their respective manuscript properly, they will be allowed to once again submit their materials for evaluation.

If a submission passes the technical review portion of the peer review process, a plagiarism check is then performed to safeguard against misusing previously published and copyrighted content, as well as, the use of unethical AI-generated text. All submissions are scanned using plagiarism checker software and are immediately rejected if a case of plagiarism or AI-generated text is detected.

Level II. SINGLE-ANONYMIZED PEER REVIEW

Once a new submission passes the technical review and plagiarism check portion of the peer review process, then a single-anonymized peer review is initiated. At least two professional subject experts from the JCR Editorial Board are invited to submit review comments for a specific submission. The JCR Editorial Board is a voluntary panel of worldwide experts that

generously give their time and effort to provide a high-standard of peer review for materials submitted to the JCR (https://www.cerf-jcr.org/cerf-jcr-info). When necessary, a JCR external peer reviewer will also be invited to provide comments on a given submission. The JCR has over 1,970 external peer reviewers from 85 different countries who serve as specialists outside of the JCR Editorial Board. These external peer review referees, along with the JCR Editorial Board, generously donate their time to the journal in order to conduct the thorough evaluation of manuscripts. When their individual reviews are complete, they assist the Editor-in-Chief by providing comments, suggestions, and recommendations about the ultimate disposition of submitted materials to the JCR.

In addition to the general and specific comments given by the peer reviewers, the following recommendations are also provided by those peer review experts evaluating submitted materials:

Accept (as submitted)

These include submissions suitable for publication without revision. This category is very rarely used, except in special circumstances where submissions have been reviewed and revised extensive prior to submission (*e.g.*, *via* internal institutional peer review) or when submissions have been formatted properly according to the JCR Author Instructions and otherwise flawlessly prepared (*i.e.* scientifically and technically sound).

Provisionally Accepted Pending Minor Revision

These submissions require minor revisions within the context of the peer review comments. This can include minor changes to the manuscript text, as well as modifications to the figures and tables submitted. This recommendation is usually reserved for those submissions that have been formatted properly according to the JCR Author Instructions.

Provisionally Accepted Pending Major Revision

These submissions require major revisions in the context of the peer review comments. Major revisions normally entail recasting the paper, some kind of reorganization of topics, adding additional information or deleting extraneous data, correction of poor English *via* a grammar service, correction of illogical or logistical thought processes, and so on. Without extensive major corrections, the paper cannot proceed forward and ultimately be accepted.

Additional Review Required After Revision

These submissions are on the verge of rejection but are ultimately not declined as the reviewer feels the manuscript contains some value and might become acceptable if properly revised. These papers require more work than the 'major revision' category and will go out for a completely separate round of single-anonymized peer review.

Dismissed (Declined or Rejected)

These papers are deemed out of scope, scientifically unsound, incomplete, inappropriate, biased, poorly written, poorly organized, or contain fatal flaws or any other property or unethical characteristic that precludes inclusion in an international scientific journal. Declined papers are terminal in this round of peer review, but may be resubmitted after extensive revision as a new contribution where the submission procedure and the peer review process starts anew.

Level III. SINGLE-ANONYMIZED REVISION PEER REVIEW

Once a new submission passes the initial single-anonymized peer review portion of the review process, a second single-anonymized peer review is carried out on any revised materials submitted in relation to the original submission. This is necessary to ensure the authors have properly addressed any concerns the peer reviewers have brought to the attention of the JCR editorial staff. All authors must submit a separate Response to Reviewers document that details how each of the peer review comments were addressed. Without such a document, the revised submission will either be returned to the authors or will be dismissed altogether.

Level IV. EDITOR-IN-CHIEF FINAL ADJUDICATION

Once a revised submission has passed the second single-anonymized peer review, JCR Editor-in-Chief will make the final adjudication of acceptance or dismissal for any submitted items. This is usually contingent upon the authors thoroughly addressing the peer reviewers' comments with an official Response to Reviewers document, which accompanies the revised submission. In the Response to Reviewers document, the authors are to cite each comment supplied by the peer reviewers and appropriately explain how they either complied with the comments or why they felt the suggestions were unwarranted. Acceptance of revision materials is largely based on the thoroughness and degree of the authors' Response to Reviewers document.

Level V. GRAMMATICAL AND REFERENCE CHECK

Once a submission is granted final acceptance, the JCR editorial staff perform a grammatical and reference check of the accepted material. This is necessary to ensure the authors have a grammatically-sound item for publication and that all the references are valid and properly cited. Queries are then sent back to the authors if any questions arise from these checks.

Level VI. EDITORIAL PROOF CHECK

The final stage of review comes after the authors return their typeset proofs with no additional modifications or changes. Once that occurs, the JCR editorial staff inspects each document one final time to ensure no mistakes occur in the final published item.

DUTIES OF REVIEWERS AND AUTHORS DURING PEER REVIEW

Reviewer Contribution to Editorial Decisions

Peer review assists editors in making editorial decisions and, through editorial communications with authors, may assist authors in improving their manuscripts. Peer review is an essential component of formal scholarly communication and lies at the heart of scientific endeavor. JCR shares the view of many that all scholars who wish to contribute to the scientific process have an obligation to do a fair share of reviewing.

Promptness

Any invited referee who feels unqualified to review the research reported in a manuscript or knows that its prompt review will be impossible should immediately notify the editors and decline the invitation to review so that alternative reviewers can be contacted.

Confidentiality

Any manuscripts received for review are confidential documents and must be treated as such; they must not be shown to or discussed with others, except if authorized by the Editor-in-Chief (who would only do so under exceptional and specific circumstances). This also applies to invited reviewers who decline the review invitation.

Standards of Objectivity

Reviews should be conducted objectively (without bias) and observations formulated clearly with supporting arguments so that authors can use them for improving the manuscript. Personal criticism of the authors is inappropriate and will not be tolerated.

Acknowledgement of Sources

Reviewers should identify relevant published work that has not been cited by the authors. Any statement that is an observation, derivation or argument that has been reported in previous publications should be accompanied by the relevant citation. A reviewer should also notify the editors of any substantial similarity or overlap between the manuscript under consideration and any other manuscript (published or unpublished) of which they have personal knowledge.

Disclosure and Conflicts of Interest

Any invited referee who has conflicts of interest resulting from competitive, collaborative, or other relationships or connections with any of the authors, companies, or institutions connected to the manuscript and the work described therein should immediately notify the editors to declare their conflicts of interest and decline the invitation to review so that alternative reviewers can be contacted.

Unpublished material disclosed in a submitted manuscript must not be used in a reviewer's own research without the express written consent of the authors. Privileged information or ideas obtained through peer review must be kept confidential and not used for the reviewer's personal advantage. This applies also to invited reviewers who decline the review invitation.

Author Responsibilities

Authors are obliged to participate in the peer review process and cooperate fully by responding promptly to editors' requests for raw data, clarifications, proof of ethics approval, and copyright permissions. In the case of a first decision of "revisions necessary", authors should respond to the reviewers' comments systematically, point by point, and in a timely manner, revising, and resubmitting their manuscript to the journal by the deadline given.

