

## PUBLICATIONS OF DAVID W. CARESS

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- The “h-index” = 36 for peer-reviewed publications.
- Citation counts are given in red brackets.
- Citations counts are from the Scopus Database, or Google Scholar for articles not listed in Scopus.
- Citations last updated November 25, 2024.

## PEER-REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS

2024:

92. Caress, David W., Martin, Eric J., Risi, Michael, Troni, Giancarlo, Hamilton, Andrew, Key, Chad, Paduan Jennifer B., Thomas Hans, Rock Steve, Wolfson Schwehr, Monica, Henthorn, Rich, Hobson, Brett, Bird, Larry (2024), The MBARI Low Altitude Survey System for 1-cm-scale seafloor surveys in the deep ocean, in press *Journal of Oceanic Engineering*.
91. Girard, Fanny, Caress, David W., Paduan, Jennifer B., Kuhn, Linda A. Litvin, Steven Y, Flattery, Emma, Kahn, Amanda, DeVogelaere, Andrew, Burton, Erica J., Lovera, Christopher, Martin, Eric, Barry, James P. (2024), Habitat heterogeneity over multiple scales supports dense and diverse megafaunal communities on a NE Pacific ridge, in press, *Limnology and Oceanography*.
90. Paull, C. K., Hong, J. K., Caress, D. W., Gwiazda, R., Kim, J., Lundsten, E., Paduan, J. B., Jin, Y. K., Duchesne, M. J., Rhee, T. S., Brake, V., Obelcz, J., Walton, M. A. L. (2024). Massive ice outcrops and thermokarst along the Arctic shelf edge: by-products of ongoing groundwater freezing and thawing in the sub-surfaces, *Journal Geophysical Research - Earth Surface*. <https://doi.org/10.1029/2024JF007719> [0]
89. Julià-Miralles, M., Yarbuh, I., Spelz, R.M., Negrete-Aranda, R., Contreras, J., Fletcher, J.M., Gonzalez-Fernandez, A., Zierenberg, R., Caress, D.W. (2024). Strain localization instabilities and the genesis of multiple axes of seafloor spreading in the Carmen basin, southern Gulf of California. *Int J Earth Sci (Geol Rundsch)*. <https://doi.org/10.1007/s00531-024-02426-6> [0]
88. Lundsten, E., Paull, C. K., Gwiazda, R., Dobbs, S., Caress, D. W., Kuhn, L. A., Walton, M., Nieminski, N., McGann, M., Lorensen, T., Cochrane, G., Addison, J., (2024). Pockmarks offshore Big Sur, California provide evidence for recurrent, regional, and unconfined sediment gravity flows, *Journal of Geophysical Research Earth Surface*. <http://dx.doi.org/10.1029/2023JF007374> [2]
87. Slead, S., Wei, M., Nooner, S., Chadwick, W. W., Caress, D. W., Beeson, J. (2024). Compartmentalization of Axial Seamount’s magma reservoir inferred by analytical and numerical deformation modeling with realistic geometry, *Journal of Geophysical Research Solid Earth*. <http://dx.doi.org/10.1029/2023JB028414> [1]
86. Peña-Salinas, Manet E., Speth, Daan R., Utter, Daniel R, Lim, Sujung, Zierenberg, Robert A., Caress, David W., Núñez, Patricia G., Vázquez, Roberto, Orphan, Victoria J, Spelz, Ronald M. (2024). Thermotogota diversity and distribution patterns revealed in diffuse fluids in *Auka* and *JaichMaa* ‘ja’ hydrothermal vent fields in the Pescadero Basin, Gulf of California, PeerJ 12:e17724. <https://doi.org/10.7717/peerj.17724> [0]

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85. Barry, J. P., Litvin, S. Y., DeVogelaere, A., Caress, D. W., Lovera, C., Kahn, A. S., Burton, E. J., King, C., Paduan, J. P., Wheat, C. G., Girard, F., Sudek, S., Hartwell, A. M., Sherman, A. D., McGill, P. R., Schnittger, A., Voight, J. R., Martin, E. J. (2023). Abyssal hydrothermal springs – cryptic incubators for brooding octopus, *Science Advances*, **9**.  
<https://www.science.org/doi/10.1126/sciadv.adg3247> [3]
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83. Tseng, Y., Römer, M., Lin, S., Pape, T., Berndt, C., Chen, T., Paull, C.K., Caress, D.W., Borhrmann, G. (2022). Yam seep area at Four-Way Closure Ridge – a prominent active gas seep system at the accretionary wedge SW offshore Taiwan, *International Journal of Earth Sciences*. <https://doi.org/10.1007/s00531-022-02280-4> [7]
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79. Riedel, M., Scherwath, M., Römer, M., Paull, C.K., Lundsten, E., Caress, D., Brewer, P., Pohlman, Lapham, L.L., Chapman, N.R., Whiticar, M.J., Spence, G., Enkin, R., Douglas, K., Barkley Canyon gas hydrates: A synthesis based on two decades of seafloor observation and remote sensing, <https://doi.org/10.3389/feart.2022.852853>, *Frontiers in Earth Science*, *10*, 2022. [4]
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- <https://doi.org/10.1016/j.jsames.2021.103678>, *Journal of South American Earth Sciences*, 2021. [4]
76. Vega-Ramirez, L. A., Spelz-Madero, R. M., Negrete-Aranda, R., Neumann, F., Caress, D. W., Clague, D. A., Paduan, J. B., Contreras, J., Pena-Dominguez, G., A new method for fault-scarp detection using linear discriminant analysis in high-resolution bathymetry data from the Alarcon Rise and Pescadero Basin, <https://doi.org/10.1029/2021TC006925>, *Tectonics*, 2021. [4]
75. Negrete-Aranda, R., Neumann, F., Contreras, J., Harris, R. N., Spelz, R. M., Zierenberg, R., & Caress, D. W. Transport of heat by hydrothermal circulation in a young rift setting: Observations from the Auka and JaichMaa Ja'ag' vent field in the Pescadero Basin, southern Gulf of California. 126, e2021JB022300. <https://doi.org/10.1029/2021JB022300>, *Journal of Geophysical Research: Solid Earth*, 2021. [7]
74. Fildani, A., S. Kostic, J. A. Covault, K. L. Maier, D. W. Caress, C. K. Paull, Exploring a new breadth of cyclic steps on distal submarine fans, <https://doi.org/10.1111/sed.12803>, *Sedimentology*, 2020. [18]
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69. Maier, K. L., C. K. Paull, D. W. Caress, K. Anderson, N. M. Nieminski, E. Lundsten, B. Erwin, R. Gwiazda, A. Fildani, Submarine fan development revealed by integrated high-resolution datasets from La Jolla Fan, offshore California, <http://dx.doi.org/10.2110/jsr.2020.22>, 90: 468-479, *Journal Sedimentary Research*, 2020. [28]
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67. Hilley, G. E., Sare, R. M., Aron, F., Baden, C. W., Caress, D., Castillo, C., Dobbs, S. C., Gooley, J. T., Johnstone, S., Liu, F., McHargue, T., Nevitt, J. M., Paull, C., Shumaker, L., Traer, M. M., Young, H. H., Coexisting Seismic Behavior of Transform Faults Revealed by High-Resolution Bathymetry, <https://doi.org/10.1130/G46663.1>, 48 (4): 379–384, *Geology*, 2020. [3]

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66. Clague, D. A., J. B. Paduan, D. W. Caress, C. L. Moyer, B. T. Glazer, Dana R. Yoerger, Structure and lava flow morphology on Loihi Seamount from high-resolution mapping, <https://doi.org/10.3389/feart.2019.00058>, *Frontiers in Marine Science, Volcanology*, 2019. [17]
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64. Georgieva, M. N., C. K. Paull, C. T. S. Little, M. McGann, D. Sahy, D. Condon, L. Lundsten, J. Pewsey, D. W. Caress, R. C. Vrijenhoek, Discovery of an extensive deep-sea fossil serpulid reef associated with an active cold seep, Santa Monica Basin, CA, <https://doi.org/10.3389/fmars.2019.00115>, *Frontiers in Marine Science*, 2019. [13]

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60. Dunlop, K. M., K. J. Benoit-Bird, C. M. Waluk, T. Jarvis, D. W. Caress, H. Thomas, K. L. Smith, Detection and characterisation of deep-sea benthopelagic animals from an autonomous underwater vehicle with a multibeam echosounder: A proof of concept and description of data-processing methods, <https://doi.org/10.1016/j.dsr.2018.01.006>, *Deep-Sea Research*, 2018. [35]
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