

DAVID W. CARESS: PUBLICATIONS

PEER-REVIEWED PUBLICATIONS

Citation counts from Scopus as of May 1, 2020 are given in red brackets.

The “h-index” = 29.

1. Caress, David W., H. W. Menard, and R. N. Hey, Eocene reorganization of the Pacific-Farallon spreading center north of the Mendocino fracture zone, *J. Geophys. Res.*, **93**, 2813-2838, <http://dx.doi.org/10.1029/JB093iB04p02813>, 1988. [36]
2. Hey, R. N., H. W. Menard, T. M. Atwater, and D. W. Caress, Changes in direction of seafloor spreading revisited, *J. Geophys. Res.*, **93**, 2803-2812, <http://dx.doi.org/10.1029/JB093iB04p02803>, 1988. [40]
3. Caress, David W. and Robert L. Parker, Spectral interpolation and downward continuation of marine magnetic anomaly data, *J. Geophys. Res.*, **94**, 17393-17408, <http://dx.doi.org/10.1029/JB094iB12p17393>, 1989. [10]
4. Burnett, M. S., D. W. Caress, and J. A. Orcutt, Tomographic image of the magma chamber at 12°50'N on the East Pacific Rise, *Nature*, **339**, 208-220, <http://dx.doi.org/10.1038/339206a0>, 1989. [35]
5. Caress, David W., Structural trends and back-arc extension in the Havre Trough, *Geophys. Res. Lett.*, **18**, 853-856, <http://dx.doi.org/10.1029/91GL01060>, 1991. [26]
6. Caress, David W., Mark S. Burnett, and John A. Orcutt, Tomographic image of the axial low velocity zone at 12°50'N on the East Pacific Rise, *J. Geophys. Res.*, **97**, 9243-9263, <http://dx.doi.org/10.1029/92JB00287>, 1992. [61]
7. Bjarnason, I.T., W. Menke, O. G. Flovenz, and D. W. Caress, Tomographic image of the spreading center in southern Iceland, *J. Geophys. Res.*, **98**, 6607-6622, <http://dx.doi.org/10.1029/92JB02412>, 1993. [145]
8. Manley, Patricia L. and David W. Caress, Mudwaves on the Gardar Sediment Drift, NE Atlantic, *Paleoceanography*, **9**, 973-988, <http://dx.doi.org/10.1029/94PA01755>, 1994. [26]
9. McClain, J.S., and D. W. Caress, Seismic tomography in marine refraction experiments, in *Seismic Tomography: Theory and Practice*, edited by H. M. Iyer and K. Hirahara, 848 pp., Chapman and Hall, London, 1993. [1]
10. Caress, D. W., M. K. McNutt, R.S. Detrick, and J.C. Mutter, Seismic imaging of hotspot-related crustal underplating beneath the Marquesas Islands, *Nature*, **373**, 600-603, <http://dx.doi.org/10.1038/373600a0>, 1995. [140]
11. Caress, David W., and Dale N. Chayes, Improved processing of Hydrosweep DS Multibeam Data on the R/V Maurice Ewing, *Marine Geophysical Researches*, **18**, 631-650, <http://dx.doi.org/10.1007/BF00313878>, 1996. [175]
12. McNutt, M. K., D. W. Caress, J. Reynolds, K. A. Jordahl, and R. A. Duncan, Failure of plume theory to explain midplate volcanism in the southern Austral Islands, *Nature*, **389**, 479-482, <http://dx.doi.org/10.1038/39013>, 1997. [120]
13. Kastens, K., E. Bonatti, D. Caress, G. Carrara, O. Dauteuil, G. Frueh-Green, and M. Ligi, The Vema Transverse Ridge (Central Atlantic), *Mar. Geophys. Res.*, **20**, 533-556, <http://dx.doi.org/10.1023/A:1004745127999>, 1998. [27]
14. Schuur, C. L., M. F. Coffin, C. Frolich, P. Mann, C. G. Massell, G. D. Karner, D. Ramsay, and D. Caress, Sedimentary regimes at the Macquarie Ridge Complex: interaction of Southern Ocean circulation and tectonism, *Paleoceanography*, **13**, 646-670, <http://dx.doi.org/10.1029/98PA02357>, 1998. [22]

15. Jordahl, K., D. Caress, M. McNutt, and A. Bonneville, Seafloor topography and morphology in the Superswell region, in R. Hekinian, P. Stoffers, and J. Cheminee Eds., *Oceanic Hot Spots*, Springer, pp. 9-28, 2004. [9]
16. Jordahl, K., D. Caress, M. McNutt, and A. Bonneville, Multiple episodes of volcanism in the Southern Austral Islands: Flexural constraints from bathymetry, seismic reflection and gravity data, *J. Geophys. Res.*, 109, B06103, <http://dx.doi.org/10.1029/2003JB002885>, 2004. [9]
17. Paull, C.K., B. Schlining, W. Ussler III, J.B. Paduan, D. Caress, H.G. Greene, Distribution of chemosynthetic biological communities in Monterey Bay, California. *Geology* 33:2; 85-88, <http://dx.doi.org/10.1130/G20927.1>, 2005. [28]
18. Stakes, D.S., M.R. Perfit, M.A. Tivey, D.W. Caress, T.M. Ramirez, N. Maher, "The Cleft Revealed: Geologic, magnetic and morphologic evidence for construction of upper oceanic crust along the southern Juan de Fuca Ridge", *Geochemistry, Geophysics, Geosystems*, 7:4, Q04003, <http://dx.doi.org/10.1029/2005GC001038>, 2006. [46]
19. Paull, C.K., W. Ussler III, P. J. Mitts, D. W. Caress, G. J.. West, Discordant ¹⁴C-stratigraphies in Upper Monterey Canyon: A signal of anthropogenic disturbance?, *Mar. Geol.*, 233, 21-36, <http://dx.doi.org/10.1016/j.margeo.2006.07.008>, 2006. [21]
20. McNutt, M., Caress, D. W., Hotspots and Hotspot Swells, in *Seismology and the Structure of the Earth, Treatise on Geophysics*, Vol. I, ed. B. Romanawicz and A. Dziewonski, Elsevier, 2007. [6]
21. Paull, C.K, Normark, W.R., Ussler III, W., Caress, D.W., Keaten, R., "Association among active seafloor deformation, mound formation, and gas hydrate growth and accumulation within the seafloor of the Santa Monica Basin, offshore California", *Marine Geology*, 250, 258-275, <http://dx.doi.org/10.1016/j.margeo.2008.01.011>, 2008. [65]
22. Caress, D.W., H. Thomas, W. J. Kirkwood, R. McEwen, R. Henthorn, E. A. Clague, C. K. Paull, J. Paduan, and K. L. Maier, "High-Resolution Multibeam, Sidescan, and Subbottom Surveys Using the MBARI AUV D. Allan B.", *Marine Habitat Mapping Technology for Alaska*, J.R. Reynolds and H.G. Greene (eds.) Alaska Sea Grant College Program, University of Alaska Fairbanks. <http://dx.doi.org/10.4027/mhmta.2008.04>, 2008. [78]
23. Normark, W., C.K. Paull, D.W. Caress, W. Ussler, R. Sliter, "Fine-scale relief related to late Holocene channel shifting within the floor of upper Redondo Fan, offshore southern California", *Sedimentology*, <http://dx.doi.org/10.1111/j.1365-3091.2009.01052.x>, 2009. [41]
24. Paduan, J., Caress, D. W., Clague, D. A., Paull, C. K., and Thomas, H., High-resolution mapping of erosional, tectonic, and volcanic hazards using the MBARI mapping AUV, *Rendiconti Online Società Geologica Italiana*, 7, 181-186. 2009. [9]
25. Paull, C.K., B. Schlining, W. Ussler III, E. Lundsten, J.P. Barry, D.W. Caress, "Submarine Mass Transport Within Monterey Canyon: Benthic Disturbance Controls on the Distribution of Chemosynthetic Biological Communities", D. Mosher et al. (eds.), *Submarine Mass Movements and Their Consequences, Advances in Natural and Technological Hazards Research*, 28, 2010. [20]
26. Paull, C.K., Ussler, W. III, Caress, D. W., Lundsten, E., Barry, J., Covault, J., Maier, K., Xu, J., Augenstein, S., Origins of large crescent-shaped bedforms within the axial channel of Monterey Canyon, *Geosphere*, 6, pp. 755-774, <http://dx.doi.org/10.1130/GES00527.1>, 2010. [111]
27. Maier, K.L., A Fildani, C.K. Paull, S. A. Graham, T.R. McHargue, D.W. Caress, M. McGann, "The elusive character of discontinuous deep-water channels: New insights from Lucia

- Chica channel system, offshore California”, *Geology*, **39**, 4, pp. 327–330, <http://dx.doi.org/10.1130/G31589.1>, 2011. [52]
28. Paull, C.K., D.W. Caress, W. Ussler III, E. Lundsten, M. Meiner-Johnson, High-resolution bathymetry of the axial channels within Monterey and Soquel submarine canyons, offshore central California, *Geosphere*, **7**, 1077-1101, <http://dx.doi.org/10.1130/GES00636.1>, 2011. [70]
29. Resing, J.A., K.H. Rubin, R.W. Embley, J.E. Lupton, E.T. Baker, R.P. Dziak, T. Baumberger, M.D. Lilley, J.A. Huber, T.M. Shank, D.A. Butterfield, D.A. Clague, N.S. Keller, S.G. Merle, N.J. Buck, P.J. Michael, A. Soule, D.W. Caress, S.L. Walker, R. Davis, J.P. Cowen, A.L. Reysenback, H. Thomas, “Active submarine eruption of boninite in the northeastern Lau Basin”, *Nature Geoscience*, **4**, 799-806, <http://dx.doi.org/10.1038/NGEO1275>, 2011. [100]
30. Maier, K.L., A. Fildani, T.R. McHargue, C.K. Paull, S.A. Graham, D.W. Caress, “Punctuated deep-water channel migration: High-resolution subsurface data from the Lucia Chica channel system, offshore California, U.S.A”, *Journal of Sedimentary Research*, **82**:1, pp. 1-8, <http://dx.doi.org/10.2110/jsr.2012.10>, 2012. [43]
31. Clague, D.A., J.B. Paduan, D.W. Caress, H. Thomas, W.W. Chadwick, S. Merle, Volcanic morphology based on high-resolution bathymetry and depth changes at West Mata Volcano, NE Lau Basin, *Geochemistry, Geophysics, Geosystems*, **12**, <http://dx.doi.org/10.1029/2011GC003791>, 2011. [28]
32. Rubin, K.H., S.A. Soule, W.W. Chadwick Jr., D.J. Fornari, D.A. Clague, R.W. Embley, E.T. Baker, M.R. Perfit, D.W. Caress, and R.P. Dziak, “Volcanic eruptions in the deep sea”, *Oceanography*, **25**:1, pp. 142-157, <http://dx.doi.org/10.5670/oceanog.2012.12>, 2012. [62]
33. Kelley, D.S., S.M. Carbotte, D. Clague, D.W. Caress, J. Delaney, J.B. Gill, H. Hadaway, J.F. Holden, E.E.E. Hooft, J.P. Kellogg, M.D. Lilley, M. Stoermer, D. Toomey, R. Weekly, and W.S.D. Wilcock, “Endeavour Segment of the Juan de Fuca Ridge: One of the Most Remarkable Places on Earth”, *Oceanography*, **25**(1):44–61, <http://dx.doi.org/10.5670/oceanog.2012.03>, 2012. [53]
34. Caress, D.W., D.A. Clague, J.B. Paduan, J.F. Martin, B.M. Dreyer, W.W. Chadwick, A. Denny, D.S. Kelley, “Repeat bathymetric surveys at 1-metre resolution of lava flows erupted at Axial Seamount in April 2011”, *Nature Geoscience*, **5**, pp. 483-488, <http://dx.doi.org/10.1038/NGEO1496>, 2012. [67]
35. Maier, K.L., A. Fildani, T.R. McHargue, C.K. Paull, S.A. Graham, D.W. Caress, “Punctuated deep-water channel migration: High-resolution subsurface data from the Lucia Chica channel system, offshore California, U.S.A - Reply”, *Journal of Sedimentary Research*, **8**:1, pp. 93-95, <http://dx.doi.org/10.2110/jsr.2013.6>, 2013. [0]
36. Paull, C.K., D.W. Caress, E. Lundsten, R. Gwiazda, K. Anderson, M. McGann, J. Contrad, B. Edwards, E.J. Sumner, “Anatomy of La Jolla Submarine Canyon system; offshore southern California”, *Marine Geology*, <http://dx.doi.org/10.1016/j.margeo.2012.10.003>, 2012. [54]
378. Kannberg, P. K., A. Trehu, S. D. Pierce, C. K. Paull, D. W. Caress, “Temporal variation of methane flares in the ocean above Hydrate Ridge, Oregon”, *Earth Planet. Sci. Lett.*, **368**, 33-42, <http://dx.doi.org/10.1016/j.epsl.2013.02.030>, 2013. [30]
38. Maier, K.L., A. Fildani, C.K. Paull, T.R. McHargue, S.A. Graham, D.W. Caress, “Deep-sea channel evolution and stratigraphic architecture from inception to abandonment from high-resolution Autonomous Underwater Vehicle surveys offshore central California”, *Sedimentology*, <http://dx.doi.org/10.1111/j.1365-3091.2012.01371.x>, 2012. [36]

39. Yeo, I. A., D. A. Clague, J. F. Martin, J. B. Paduan, D. W. Caress, "Pre-eruptive flow focusing in dikes feeding historic pillow ridges on the Juan de Fuca and Gorda Ridges", *Geochemistry, Geophysics, Geosystems*, <http://dx.doi.org/10.1002/ggge.20210>, 2013. [13]
40. Chadwick, W. W., D. A. Clague, R. W. Embley, M. R. Perfit, D. A. Butterfield, D. W. Caress, J. B. Paduan, J. F. Martin, P. Sasnett, S. G. Merle, A. M. Bobbitt, "The 1998 eruption of Axial Seamount: New insights on submarine lava flow emplacement from high-resolution mapping", *Geochemistry, Geophysics, Geosystems*, <http://dx.doi.org/10.1002/ggge.20202>, 2013. [43]
41. Clague, D. A., B. M. Dreyer, J. B. Paduan, J. F. Martin, W. W. Chadwick, D. W. Caress, R. A. Portner, T. P. Guilderson, M. L. McGann, H. Thomas, D. A. Butterfield, R. W. Embley, "Geologic history of the summit of Axial Seamount, Juan de Fuca Ridge", *Geochemistry, Geophysics, Geosystems*, <http://dx.doi.org/10.1002/ggge.20240>, 2013. [34]
42. Paull, C. K., M. McGann, E. J. Sumner, P. M. Barnes, E. M. Lundsten, K. Anderson, R. Gwiazda, B. Edwards, D. W. Caress, "Sub-decadal turbidite frequency during early Holocene: Eel Fan", *Geology*, 42:10, pp. 855-858, <http://dx.doi.org/10.1130/G35768.1>, 2014. [20]
43. Clague, D. A., B. M. Dreyer, J. B. Paduan, J. F. Martin, D. W. Caress, J. B. Gill, D. S. Kelley, H. Thomas, R. A. Portner, J. R. Delaney, T. P. Guilderson, and M. L. McGann, Eruptive and tectonic history of the Endeavour Segment, Juan de Fuca Ridge, based on AUV mapping data and lava flow ages, *Geochem. Geophys. Geosyst.*, 15, <http://dx.doi.org/10.1002/2014GC005415>, 2014. [25]
44. Paull, C. K., D. W. Caress, R. Gwiazda, J. Urrutia-Fucugauchi, M. Rebolledo-Vieyra, E. Lundsten, K. Anderson, E. Sumner, Cretaceous-Paleogene boundary exposed: Campeche Escarpment, Gulf of Mexico, *Marine Geology*, 357, pp. 392-400, <http://dx.doi.org/10.1016/j.margeo.2014.10.002>, 2014. [14]
45. Dunlop, K. M., L. A. Kuhnz, H. A. Ruhl, C. L. Huffard, A. D. Sherman, D. W. Caress, R. G. Henthorn, B. W. Hobson, and K. L. Smith, An evaluation of deep-sea benthic megafauna length measurements obtained with laser and stereo camera methods, *Deep-Sea Research, Part 1*, 96, pp. 38-48, <http://dx.doi.org/10.1016/j.dsr.2014.11.003>, 2014. [17]
46. Paull, C. K., M. McGann, E. M. Lundsten, K. Anderson, R. Gwiazda, D. W. Caress, H. Thomas, M. Riedel, J. C. Herguera, Seafloor geomorphic manifestations of gas venting and shallow sub-bottom gas hydrate occurrences, *Geosphere*, <http://dx.doi.org/10.1130/GES01012.1>, 2015. [15]
47. Brothers, D. S., J. E. Conrad, K. L. Maier, C. K. Paull, M. McGann, D. W. Caress, The Palos Verdes Fault offshore southern California: Late Pleistocene to Present tectonic geomorphology, seascape evolution and slip-rate estimate based on AUV and ROV surveys, *J. Geophys. Res.*, <http://dx.doi.org/10.1002/2015JB011938>, 2015. [14]
48. Tubau, X., C. K. Paull, G. Lastras, D. W. Caress, M. Canals, E. Lundsten, K. Anderson, R. Gwiazda, D. Amblas, Submarine canyons of Santa Monica Bay, Southern California: Variability in morphology and sedimentary processes, *Marine Geology*, 365, pp. 61-79, <http://dx.doi.org/10.1016/j.margeo.2015.04.004>, 2015. [21]
49. Paull, C. K., S. R. Dallimore, D. W. Caress, R. Gwiazda, H. Melling, M. Riedel, Y. K. Jin, J. K. Hong, Y. -G. Kim, D. Graves, A. Sherman, E. Lundsten, K. Anderson, L. Lundsten, H. Villinger, A. Kopf, S. Johnson, J. Hughes Clarke, S. Blasco, K. Conway, P. Neelands, H. Thomas, and M. Cote, Active mud volcanoes on the continental slope of the Canadian Beaufort Sea, *Geochem. Geophys. Geosyst.*, <http://dx.doi.org/10.1002/2015GC005928>, 2015. [36]

50. Paull, C. K., K. Anderson, D. W. Caress, E. M. Lundsten, R. Gwiazda, Fine-scale morphology of Tubeworm Slump, Monterey Canyon, In *Submarine Mass Movements and their Consequences* (pp. 155-162), Springer International Publishing, http://dx.doi.org/10.1007/978-3-319-20979-1_15, 2016. [4]
51. Gwiazda, R., C. K. Paull, D. W. Caress, T. Lorenson, P. G. Brewer, E. T. Peltzer, P. M. Walz, K. Anderson, E. M. Lundsten, Eel Canyon slump scar and associated fluid venting, In *Submarine Mass Movements and their Consequences* (pp. 411-418), Springer International Publishing, http://dx.doi.org/10.1007/978-3-319-20979-1_41, 2016. [7]
52. Chaytor, J. D., E. L. Geist, C. K. Paull, D. W. Caress, R. Gwiazda, J. Urrutia Fucugauchi, M. Rebolledo Vieyra, Source Characterization and Tsunami Modeling of Submarine Landslides along the Yucatan Shelf/Campeche Excarpment, southern Gulf of Mexico, *Pure and Applied Geophysics*, <http://dx.doi.org/10.1007/s00024-016-1363-3>, 2016. [6]
53. Chadwick, W. W., J. B. Paduan, D. A. Clague, B. M. Dreyer, S. G. Merle, A. M. Bobbitt, D. W. Caress, B. Philip, D. S. Kelley, S. L. Nooner, Voluminous eruption from a zoned magma body after an increase in supply rate at Axial Seamount, *Geophysical Research Letters*, <http://dx.doi.org/10.1002/2016GL071327>, 2016. [29]
54. Maier, K. L., C. K. Paull, D. S. Brothers, D. W. Caress, M. McGann, E. M. Lundsten, K. Anderson, R. Gwiazda, Investigation of late Pleistocene and Holocene activity in the San Gregorio Fault Zone on the continental slope north of Monterey Canyon, offshore central California, *Bulletin of the Seismological Society of America*, V107:3, <http://dx.doi.org/10.1785/0120160261>, 2017. [3]
55. Goffredi, S., S. Johnson, V. Tunnicliffe, D. Caress, D. Clague, E. Escobar, L. Lundsten, J. Paduan, G. Rouse, D. Salcedo, L. Soto, R. M. Spelz, R. Zierenberg, R. Vrijenhoek, Hydrothermal vent fields discovered in the southern Gulf of California clarify role of habitat in augmenting regional diversity, *Proceedings of the Royal Society B*, **284**:20170817, <https://dx.doi.org/10.1098/rspb.2017.0817>, 2017. [22]
56. Carvajal, C., C. K. Paull, D. W. Caress, A. Fildani, E. M. Lundsten, K. Anderson, K. L. Maier, M. McGann, R. Gwiazda, J. C. Herguera, Unraveling the channel-to-lobe transition with high-resolution AUV bathymetry: Navy Fan, offshore Baja California, Mexico, *Journal of Sedimentary Research*, **87**(10), 1049-1059, <https://doi.org/10.2110/jsr.2017.58>, 2017. [13]
57. Maier, K. L., D. S. Brothers, C. K. Paull, M. McGann, D. W. Caress, J. E. Conrad, Records of continental slope sediment flow morphodynamic responses to gradient and active faulting from integrated AUV and ROV data, offshore Palos Verdes, southern California Borderland, *Marine Geology*, <http://dx.doi.org/10.1016/j.margeo.2016.10.001>, 2016. [10]
58. Clague, D. A., D. W. Caress, B. M. Dreyer, L. Lundsten, J. B. Paduan, R. A. Portner, R. Spelz-Madero, J. A. Bowles, P. R. Castillo, R. Guardado-France, M. Le Saout, J. F. Martin, M. A. Santa Rosa-del Rio, R. A. Zierenberg, Geology of the Alarcon Rise, Southern Gulf of California, 19, 807-837, <https://doi.org/10.1002/2017GC007348>, *Geochemistry Geophysics Geosystems*, 2018. [10]
59. 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. [12]
60. Clague, D. A., J. B. Paduan, D. W. Caress, W. W. Chadwick, M. Le Saout, B. M. Dreyer, R. A. Portner, High-Resolution AUV Mapping and ROV Observations of three historic lava flows

- at Axial Seamount, 30(4), <https://doi.org/10.5670/oceanog.2017.426>, *Oceanography*, 2018. [2]
61. Paduan, J. B., R. Zierenberg, D. A. Clague, R. Spelz-Madero, D. W. Caress, G. Troni, H. Thomas, J. Glessner, M. D. Lilley, T. Lorensen, J. Lupton, F. Neumann, M. Santa Rosa-del Rio, C. Geoffrey Wheat, Discovery of Hydrothermal Vent Fields on Alarcon Rise and in Southern Pescadero Basin, Gulf of California, <https://doi.org/10.1029/2018GC007771>, *Geochemistry Geophysics Geosystems*, 2018. [8]
 62. Paull, C. K., P.J. Talling, K.L. Maier, D. Parsons, J. Xu, D.W. Caress, R. Gwiazda, E. Lundsten, K. Anderson, J. Barry, M. Chaffey, T. O'Reilly, K. Rosenberger, J. Gales, B. Kieft, M. McGann, S.M. Simmons, M. McCann, E. Sumner, M.A. Clare, M.J. Cartigny, Powerful turbidity currents driven by dense basal layers, <https://doi.org/10.1038/s41467-018-06254-6>, *Nature Communications*, 2018. [43]
 63. Gwiazda, R., C. K. Paull, D. W. Caress, C. M. Preston, S. B. Johnson, E. Lundsten, K. Anderson, The extent of fault-associated modern authigenic barite deposits offshore northern Baja California revealed by high resolution mapping, <https://doi.org/10.3389/fmars.2019.00460>, *Frontiers in Marine Science*, 2019. [0]
 64. Chen, T. T., C. K. Paull, C. S. Liu, I. Klauke, H. H. Hsu, C. C. Su, R. Gwiazda, D. W. Caress, Discovery of numerous Pingos and Comet-Shaped Depressions: Offshore Southwestern Taiwan, <https://doi.org/10.1007/s00367-019-00577-z>, *Geo-Marine Letters*, 2019. [1]
 65. 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. [1]
 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. [5]
 67. Clague, D. A., J. B. Paduan, D. W. Caress, J. S. McClain, R. A. Zierenberg, Lava flows erupted in 1996 on North Gorda Ridge Segment and the geology of the nearby Sea Cliff hydrothermal vent field from 1-m resolution AUV mapping, <https://doi.org/10.3389/fmars.2020.00027>, *Frontiers in Marine Science*, 2020. [0]
 68. 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. [0]
 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. [1]
 70. Clague, D. A., J. F. Martin, J. B. Paduan, D. A. Butterfield, J. W. Jamieson, M. Le Saout, D. W. Caress, H. Thomas, J. F. Holden, D. S. Kelley, Hydrothermal chimney distribution on the Endeavour Segment, Juan de Fuca Ridge, <https://doi.org/10.1029/2020GC008917>, 21 (6): e2020GC008917, *Geochemistry Geophysics Geosystems*, 2020. [0]
 71. Wheat, C. G., R. A. Zierenberg, J. B. Paduan, D. W. Caress, Clague, D. A., W. W. Chadwick, Changing brine inputs into hydrothermal fluids: Southern Cleft Segment, Juan de Fuca Ridge, <https://doi.org/10.1029/2020GC009360>, *Geochemistry Geophysics Geosystems*, 2020. [0]

72. Fildani, A., S. Kostic, J. A. Covault, K. L. Maier, D. W. Caress, C. K. Paull, Exploring new breadth of cyclic steps on distal submarine fans, <https://doi.org/10.1111/sed.12803>, *Sedimentology*, 2020. [0]
73. Paull, C. K., et al., Characteristics of slope failures along the continental slope of the Canadian Beaufort Sea as revealed from AUV and ROV surveys: Brackish water preconditioning, submitted to *Marine Geology*, 2020.

PH.D. THESIS

Caress, David W., *Some Aspects of the Structure and Evolution of Oceanic Spreading Centers*, Ph.D. Thesis, University of California San Diego, 1989.

SOFTWARE AND DATA PRODUCT RELEASES

1. Caress, D.W., and D.N. Chayes, MB-System Version 3, Open source software distributed from the L-DEO ftp site, 1993.
2. Caress, D.W., and D.N. Chayes, MB-System Version 4, Open source software distributed from the MBARI and L-DEO web sites, 9 major releases, 1994-2000.
3. MBARI Mapping Team (includes D.W. Caress), Hawaii Multibeam Survey, CD-ROM, MBARI Digital Data Series No. 2, 2000.
4. MBARI Mapping Team (includes D.W. Caress), Monterey Bay Multibeam Survey, CD-ROM, MBARI Digital Data Series No. 3, 2000.
5. MBARI Mapping Team (N. Barr, D. Caress, D. Clague, P. Eichhubl, H.G. Greene, and N. Maher), Santa Barbara Multibeam Survey, Monterey Bay Aquarium Research Institute Digital Data Series No. 4, 2-CD set, 2001.
6. MBARI Mapping Team (N. Barr, D. Caress, D. Clague, J. Donaldson, J. Paduan, and B. Schlining), MBARI Northern California and Oregon Margin Multibeam Survey, Monterey Bay Aquarium Research Institute Digital Data Series No. 5, 2-CD set, 2001.
7. MBARI Mapping Team (N. Barr, D. Caress, D. Clague, J. Donaldson, J. Paduan, and B. Schlining), Seamounts and Ridges Multibeam Survey, Monterey Bay Aquarium Research Institute Digital Data Series No. 7, 1-CD, 2001.
8. Caress, D.W., and D.N. Chayes, MB-System Version 5, Open source software distributed from the MBARI and L-DEO web sites, 2000-2018.

UNREFERREED PUBLICATIONS

1. Caress, David W., Sharon E. Spitzak, and Dale N. Chayes, Software for multibeam sonars, *Sea Technology*, **37**, 54-57, 1996. [13]
1. Sharon E. Spitzak, David W. Caress, and Stephen P. Miller, Advances in multibeam survey, *Sea Technology*, **38**, 45-49, 1997. [0]
2. Schmidt, V., D. Chayes, and D. Caress, The MB-System Cookbook, distributed from MBARI and L-DEO web sites, 2006. [6]

MEETING ABSTRACTS

1. Caress, D. W., H. W. Menard, and R. N. Hey, Seafloor spreading reorganization in the NE Pacific, *EOS Trans. AGU*, **66**, 1062, 1985.
2. Naar, D.F., M. C. Kleinrock, R. N. Hey, D. W. Caress, K. Raeder, and D. Sandwell, Hot wax seafloor spreading experiments on video, *EOS Trans. AGU*, **67**, 1228, 1986.

3. Caress, D. W., H. W. Menard, R. N. Hey, and M. C. Kleinrock, Reorganization of the Pacific-Farallon spreading center, EOS Trans. AGU, 67, 1210, 1986.
4. Phipps Morgan, J., D. W. Caress, J. A. Orcutt, J. B. Minster, J. Genrich, and M. C. Kleinrock, Sea Beam, magnetics, and gravity Data from the 95.5°W propagating rift: Results from the Tortuga Expedition, EOS Trans. AGU, 69, 1421, 1988.
5. Caress, D. W., and R. L. Parker, Spectral interpolation and downward continuation of magnetic anomaly data, EOS Trans. AGU, 69, 1421, 1988.
6. Caress, D. W., J. Phipps Morgan, J. A. Orcutt, and M. C. Kleinrock, Structure and evolution of the Cocos-Nazca spreading center, 94°30'W to 96°30'W, EOS Trans. AGU, 70, 467, 1989.
7. Caress, D. W., M. S. Burnett, and J. A. Orcutt, Tomographic imaging of the magma chamber at 12°50'N on the East Pacific Rise, EOS Trans. AGU, 70, 455-456, 1989.
8. Burnett, M. S., D. W. Caress, and J. A. Orcutt, Anisotropy in the upper crust at the East Pacific Rise at 12°50'N, EOS Trans. AGU, 70, 1316-1317, 1989.
9. Caress, D. W., M. S. Burnett, and J. A. Orcutt, The axial seismic velocity structure of the East Pacific Rise from tomography, CDP, and ESP data, EOS Trans. AGU, 70, 1316, 1989.
10. Caress, D. W., Structural trends and back-arc extension in the Havre Trough, EOS Trans. AGU, 71, 640, 1990.
11. Caress, D. W., K. M. Fischer, and A. L. Lerner-Lam, Tomographic imaging of the Loma Prieta rupture zone, EOS Trans. AGU, 71, 562, 1990.
12. Caress, D. W., J. C. Mutter, M. McNutt, R. S. Detrick, A combined multichannel seismic reflection and seismic refraction profile through the Marquesas Island chain, EOS Trans. AGU, 72, 438, 1991.
13. McNutt, M., D. Caress, J. Mutter and R. Detrick, Thickness of the elastic plate beneath the Marquesas Islands: Why is it so much greater than values elsewhere in French Polynesia?, EOS Trans. AGU, 72, 437, 1991.
14. Chayes, D. N., D. W. Caress, W. B. F. Ryan, A. Malinverno, W. Menke, C. Keeley, Status of Hydrosweep on the R/V EWING: System operation and data processing, EOS Trans. AGU, 72, 488, 1991.
15. Bjarnason, Ingi, W. Menke, D. Caress and O. Flovenz, Crustal structure of south Iceland as revealed by tomographic inversion of refraction data, EOS Trans. AGU, 72, 298, 1991.
16. Caress, D. W., J. C. Mutter, M. McNutt, R. S. Detrick, An OBS seismic refraction experiment across the Marquesas Islands: The deep crustal structure of a hotspot trace, EOS Trans. AGU, 73, 489-490, 1992.
17. Caress, D. W., J. C. Mutter, M. McNutt, R. S. Detrick, Seismic refraction evidence for crustal underplating beneath the Marquesas hotspot trace, EOS Trans. AGU, 74, 563, 1993.
18. Chayes, D. N., and D. W. Caress, Processing and display of multibeam echosounder data on the R/V Maurice Ewing, EOS Trans. AGU, 74, 562, 1993.
19. Kastens, K. A., E. Bonatti, and the EW9305 Science Party, New results from the southern transverse ridge of the Vema Fracture Zone, EOS Trans. AGU, 74, 562, 1993.
20. Caress, D. W., G. Karner, J. Fang, M. Coffin, C. Frohlich, P. Mann, C. Massell, L. Schuur, C. Helsley, D. Johnson, D. Falvey, D. Ramsay, and J. Lebrun, Processing of HMR1 bathymetry and sidescan data from the Macquarie Ridge, EOS Trans. AGU, 75, 669, 1994.
21. Karner, G., D. Caress, J. Fang, M. Coffin, C. Frohlich, P. Mann, C. Massell, L. Schuur, C. Helsley, D. Johnson, D. Falvey, D. Ramsay, and J. Lebrun, Transpressional deformation of the Macquarie Ridge complex and its isostatic and topographic implications, EOS Trans. AGU, 75, 668, 1994.

22. Coffin, M. F., C. Frohlich, P. Mann, C. Massell, L.Schuur, G. Karner, J. Fang, D. Caress, C. Helsley, D. Johnson, D. Falvey, D. Ramsay, and J. Lebrun, Tectonics of the Macquarie Ridge complex, EOS Trans. AGU, 75, 668, 1994.
23. Keeley, C.D., W.B.F. Ryan, W. Menke, D. Caress, and W.B.F. Haxby, Access to the RIDGE multibeam synthesis project via Internet, EOS Trans. AGU, 1994.
24. Caress, D. W. and Chayes, D. N., New software for processing sidescan data from sidescan-capable multibeam sonars, Proc. IEEE Oceans 95 Conf., 997-1000, 1995. [34]
25. Caress, D.W., G. Karner, M. Coffin, D. Falvey, J. Fang, C. Frohlich, C. Helsley, D. Johnson, J. Lebrun, P. Mann, C. Massell, D. Ramsay, and L.Schuur, Processing of HMR1 bathymetry and sidescan data from the Macquarie Ridge, EOS Trans. AGU, 76, F613, 1995.
26. Frohlich, C., M. F. Coffin, P. Mann, C. Massell, L.Schuur, D. Caress, M. Edwards, C. Helsley, D. Johnson, D. Falvey, G. Karner, J. Fang, T. Jones, D. Ramsay, and J. Lebrun, What do we know about present-day deformation along the Macquarie Ridge? -- An interpretation of earthquake and 1994 cruise data, EOS Trans. AGU, 76, F580, 1995.
27. Schuur, C. L., M. Coffin, C. Frohlich, P. Mann, C. Massell, D. Caress, M. Edwards, C. Helsley, D. Johnson, D. Falvey, G. Karner, J. Fang, T. Jones, D. Ramsay, and J. Lebrun, The southern Solander fan, SW Pacific Ocean: Implications for regional tectonics and paleoceanography, EOS Trans. AGU, 76, F581, 1995.
28. Mann, P., C. Massell, L. Gahagan, M. Coffin, C. Frohlich, L.Schuur, G. Karner, J. Fang, D. Caress, M. Edwards, C. Helsley, D. Johnson, D. Falvey, D. Ramsay, and J. Lebrun, Plate tectonic controls on fault zone topography and structural styles along the Macquarie-Alpine-Marlborough oblique-slip boundary, EOS Trans. AGU, 76, F581, 1995.
29. Spitzak, Sharon E., David W. Caress, and Stephen P. Miller, Advances in Realtime Multibeam Survey Visualization and Quality Control, Proc. IEEE Oceans 96 Conf., 1996.
30. Caress, D., M. McNutt, J. Reynolds, P. Buhl, Morphology of seamounts in the southern Austral Islands, EOS Trans. AGU, 77, F705, 1996.
31. McNutt, M, D. Caress, J. Reynolds, Multiple episodes of lineated midplate volcanism in the southern Austral Islands, EOS Trans. AGU, 77, F769, 1996.
32. Tyce, R. C., S. M. Dzurenko, P. A. Cohen, D. W. Caress, A PC/Linux software toolkit for coastal swath mapping, Proc. Ital. Hydro. Conf., 1997.
33. Caress, D., J. Reynolds, M. McNutt, and K. Jordahl, Unusual morphology of Ngatemato Seamounts in the Southern Austral Islands, EOS Trans. AGU, 78, F726, 1997.
34. Caress, D. W., D. A. Clague, J. R. Reynolds, N. Maher, G. Hatcher, A. S. Davis, EM300 multibeam survey of Escanaba Trough, offshore Northern California, EOS Trans. AGU, 79, F726, 1998.
35. Caress, D. W., MB-System - Public domain software for processing swath mapping sonar data, Undersea Explorations, 1999.
36. Caress, D. W., H. G. Greene, B. E. Tucholke, Intra-canyon basins and headwalls in submarine canyon systems, EOS Trans. AGU, 80, F561, 1999.
37. Caress, D.W., and D.N. Chayes, Optimal navigation adjustment for poorly navigated swath bathymetry surveys, EOS Trans. AGU, 81, F1096, 2000.
38. Ramirez, T. M., D.S. Stakes, S.D. Lewis, D.W. Caress, MCS reflection profiles across and west of the San Gregorio Fault in Monterey Bay, EOS Trans. AGU, 81, F925, 2000.
39. Caress, D.W. and W. Kirkwood, High resolution mapping with AUVs: Payload development issues in support of oceanographic science, AUV Sensor Workshop, 2001.
40. Caress, D.W. and D. N. Chayes, Improved management of large swath mapping datasets in MB-System Version 5, EOS Trans. AGU, 82, 2001.

41. Caress, D.W. H.G. Greene, C.K. Paull, W. Ussler, D.A. Clague, J.G. Moore, and N.M. Maher, Plunge pools in Hawaiian submarine Canyons, EOS Trans. AGU, 82, 2001.
42. Paull, C.K., H.G. Greene, Caress, D.W., D.A. Clague, W. Ussler, and N.M. Maher, ROV Tiburon investigation of Hawaiian submarine Canyons, EOS Trans. AGU, 82, 2001.
43. Chayes, D.N, A. Slagle, D.W. Caress, and R.A. Arko, First results from the (multibeam) Hydrosweep DS2 upgrade on the R/V Maurice Ewing, EOS Trans. AGU, 82,, 2001.
44. Ramirez, T, D. Caress, I. Aiello, G. Greene, S. Lewis, C. Paull, E. Silver, and D. Stakes, Structural basins, terrain contacts, and large fault displacements on the central California continental margin, constrained by seismic data and submersible observations, EOS Trans. AGU, 83, 2002.
45. Caress, D.W. and D.N. Chayes, Processing, Archiving, and Disseminating Large Swath Mapping Datasets Using MB-System, EOS Trans. AGU, 83, 2002.
46. Caress, D.W. H.G. Greene, and C.K. Paull, Plunge pools in submarine canyons, EOS Trans. AGU, 83, 2002.
47. Zhu, W., Wetzler, M., Caress, D., Denbo, D.W., "The high-resolution multibeam bathymetry data access system", 20th International Conference on Interactive Information and Processing Systems for Meteorology Oceanography and Hydrology, January 2004.
48. Kirkwood, W.J., Caress, D.W., Thomas, H., Sibenac, M., McEwen, R., Shane, F., Henthorn, R., McGill, P., "Mapping payload development for MBARI's Dorado-class AUVs", Oceans '04 MTTTS/IEEE Techno-Ocean '04, <http://dx.doi.org/10.1109/OCEANS.2004.1406358>, 2004. [14]
49. Caress, D., W. Kirkwood, H. Thomas, M. Sibenac, J. Bellingham, and P. McGillivray, Current and projected bathymetric data sources for the Ross Sea, Antarctica, for the IBCSO from USCG Icebreakers and Autonomous Underwater Vehicles, Proc. XXVIII SCAR Conference, Bremenhaven, 2004.
50. Caress, D.W., W. J. Kirkwood, H. Thomas, M. Sibenac, R. McEwen, F. Shane, R. Henthorn, P. McGill, A. Hamilton, D. Thompson, K. Salamy, A subbottom profiler survey of the upper Monterey Canyon using the MBARI Mapping AUV, Eos Trans. AGU, 85 (47), Fall Meet. Suppl. Abstract OS43B-0563, 2004.
51. Kirkwood, W. J., D. W. Caress, H. Thomas, M. Sibenac, R. McEwen, F. Shane, R. Henthorn, P. McGill, A. Hamilton, D. Thompson, K. Salamy, Development of the MBARI Mapping AUV, Eos Trans. AGU, 85 (47), Fall Meet. Suppl. Abstract OS43B-0562, 2004.
52. Caress, D. W., W. J. Kirkwood, H. Thomas, R. McEwen, R. Henthorn, P. McGill, D. Thompson, M. Sibenac, S. Jensen, F. Shane, A. Hamilton, MBARI Mapping AUV: A High-Resolution Deep Ocean Seafloor Mapping Capability, Eos Trans. AGU, 86(18), Jt. Assem. Suppl., Abstract U24A-03, 2005.
53. Kirkwood, W., D. Caress, H. Thomas, R. McEwen, F. Shane, R. Henthorn, P. McGill, "Results from MBARI's integrated mapping system", OCEANS 2005 MTS/IEEE, Abstract 050217-03, <http://dx.doi.org/10.1109/OCEANS.2005.1639814>, 2005. [7]
54. Caress, D. W., H. Thomas, R. McEwen, R. Henthorn, W. J. Kirkwood, D. Thompson, C. K. Paull, P. McGill, High-resolution multibeam, sidescan, and subbottom surveys in and around Monterey Canyon using the MBARI Mapping AUV, Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract OS33C-1490, 2005.
55. W. J. Kirkwood, Caress, D. W., H. Thomas, R. McEwen, R. Henthorn, D. Thompson, C. K. Paull, P. McGill, MBARI Mapping AUV: A high-resolution deep-ocean seafloor mapping capability, Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract OS33C-1491, 2005.

56. McEwen, R., W. Caress, D. W., Thomas, H., Henthorn, R., Kirkwood, W., Performance of an Autonomous Underwater Vehicle while Mapping Smooth Ridge in Monterey Bay, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS25N-18, 2006.
57. Barry, J. P., Paull, C. K., Xu, J. P., Buck, K. R., Whaling, P. J., Ussler, W., Caress, D., The Tempo and Intensity of Turbidity Flows in Monterey Canyon, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS52A-05, 2006.
58. Caress, D. W., Normark, W.R., Paull, C.K., Ussler III, W., Keaton, R., Sliter, R., Revisiting the San Pedro Basin fault system: Chirp subbottom profiles and multibeam bathymetry from the MBARI Mapping AUV in Santa Monica Basin, offshore southern California, Proceedings SCEC Ann. Meeting, 2006.
59. W. J. Kirkwood, Caress, D.W., Thomas, H.T., McEwen, R. Henthorn, R., "Results of MBARI'S Integrated Multibeam, Sidescan and Subbottom AUV Operations for Oceanographic Science", Scientific Committee on Antarctic Research Conference 2006, Hobart, Tasmania, July 13, 2006.
60. Henthorn, R., Caress, D. W., Thomas, H., McEwen, R., Kirkwood, W. J., Paull, C. K., Keaten, R., High-Resolution Multibeam and Subbottom Surveys of Submarine Canyons, Deep-Sea Fan Channels, and Gas Seeps Using the MBARI Mapping AUV, OCEANS 2006 MTS/IEEE, 4098900, 2006. [17]
61. Thomas, H., Caress, D., Conlin, D., Clague, D., Paduan, J., Butterfield, D., Chadwick, W., Tucker, P., Mapping AUV survey of Axial Seamount, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V23B-0615, 2006.
62. Caress, D., Thomas, H. J., Kirkwood, W. J., Brewer, P. G., An autonomous multibeam, sidescan, and subbottom survey of a methane hydrate outcrop in Barkley Canyon, offshore Vancouver Island, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract MR43A-1063, 2006
63. Greene, H., Petersen, E., Ward, S., Caress, D., The Contribution of Mass Wasting to the Modification and Sediment Budgets of Submarine Canyons and Their Potential as Tsunami Source Areas, *EOS Trans. AGU*, 87(36) Ocean Sci. Meet. Suppl., Abstract OS45A-01, 2006.
64. Paull, C. K., Normark, W. R., Ussler III, W., Caress, D. W., Keaten, R., Active Faulting, Gas Hydrate Formation, and the Growth of Seafloor Blisters in Santa Monica Basin, California, AAPG meeting, 2007.
65. Normark, W. R., Paull, C. K. Caress, D. W. Ussler, III, W. Keaton, R. Sliter, R., Fine-Scale Relief on The Floor of Upper Redondo Fan Valley: Multibeam Bathymetry And Chirp Reflection Profiles from The MBARI Mapping AUV in San Pedro Basin, Offshore Southern California, AAPG meeting, 2007.
66. Kirkwood, W. J., Caress, D. W. Comparison of MBARI Autonomous Underwater Mapping Results for ORION Monterey Accelerated Research System (MARS) and Neptune Canada, Underwater Technology and Workshop on Scientific Use of Submarine Cables and Related Technologies, 2007. Symposium on, 2007. [2]
67. Clague, D. A., Caress, D., Paduan, J. B., Chadwick, W. W., Butterfield, D. A., Thomas, H., Conlin, D., Thompson, D. R., AUV Mapping of Axial Seamount, Juan de Fuca Ridge: The Southern Calder Floor and Upper South Rift, *EOS Trans. AGU*, 88(52) Fall Meet. Suppl., Abstract T33B-1354, 2007.
68. Caress, D. W., Clague, D. A., Paduan, J. B., Chadwick, W. W., Butterfield, D. A., Thomas, H., Conlin, D., Thompson, D. R., AUV Mapping of Axial Seamount, Juan de Fuca Ridge: The Northern Calder Floor and Northeast Rim, *EOS Trans. AGU*, 88(52) Fall Meet. Suppl., Abstract T33B-1355, 2007.

69. Paull, C. K., Normark, W. R., Ussler, W., Caress, D. W., Keaten, R., Barry, J., Xu, J., Smith, D., Covault, J. A., Maier, K. L., Large wave-shaped bedforms in the axial channel of Monterey Submarine Canyon: Monterey Bay, California, EOS Trans. AGU, 88(52) Fall Meet. Suppl., Abstract H54B-03, 2007.
70. Maier, K. L., Normark, W. R., Fildani, A., McGann, M., Paull, C. K., Graham, S. A., Caress, D. W., McHargue, T., The Southernmost Branch of the Lucia Canyon System Offshore Central California: New Insights From High-resolution AUV Bathymetry and Chirp Sub-bottom Profiles, EOS Trans. AGU, 88(52) Fall Meet. Suppl., Abstract OS51B-0468, 2007.
71. Maier, K.L., A. Fildani, W.R. Normark, T. McHargue, C.K. Paull, S.A. Graham, J. Clark, M. McGann, D.W. Caress, "High-Resolution Imaging of Reservoir Architectures in Weakly-Confining Deep-Water Channel Systems", AAPG Annual Convention, San Antonio, TX, April 20-23, 2008.
72. Paull, C., D. Caress, W. Ussler III, E. Lundsten, H. Thomas, S. Rock., Topography within the Axial Channel of the Seven Submarine Canyons off California", 2008 GSA Meeting, Houston, paper 338-9, October 5-9, 2008.
73. Conrad, J.E., H.F. Ryan, C.K. Paull, D.W. Caress, R.W. Sliter, "The Palos Verdes and Coronado Bank Fault Zones, Inner Continental Borderland, Southern California – Do They Connect?", GSA Meeting, Houston, paper 163-10, October 5-9, 2008.
74. Caress, D.W., H. Thomas, D. Conlin, D. Thompson, R. McEwen, R. Henthorn, W. Kirkwood, "MBARI Mapping AUV Performance Improvements", IEEE/OES AUV2008 Conference on Polar AUVs, Woods Hole, October 13-14, 2008.
75. Caress, D.W., D.A. Clague, H. Thomas, D. Thompson, M. Calarco, J. Holden, D. Butterfield, "Tectonic and Volcanic Character of the Endeavour Ridge Axis From 1-m Resolution AUV Multibeam Mapping Surveys", Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract V41B-2078, 2008.
76. Clague, D.A., D.W. Caress, H. Thomas, D. Thompson, M. Calarco, J. Holden, D. Butterfield, "Abundance and Distribution of Hydrothermal Chimneys and Mounds on the Endeavour Ridge Determined by 1-m Resolution AUV Multibeam Mapping Surveys", Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract V41B-2079, 2008.
77. Paull, C.K., Caress, D., Ussler, W. III, Lundsten, E., Thomas, H., "Axial Channel Morphology Fill and Movement Within Submarine Canyons off California", Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract OS54A-01, 2008.
78. Paull, C.K., Caress, D., Ussler, W. III, Lundsten, E., Thomas, H., Rock, S., "Topography within the axial channel of seven submarine canyons off California", SEPM Workshop on Stratigraphic Evolution Of Deep-Water Architecture, Chile, February 22-28, 2009.
79. Beck, E., Kirkwood, W., Caress, D., Berk, T., Mahacek, P., Brashem, K., Acain, J., Reddy, V., Kitts, C., Skutnik, J., Wheat, G., "SeaWASP: A small waterplane area twin hull autonomous platform for shallow water mapping", Mar. Tech. Soc. J., 43(1), 6-12, 2009. [7]
80. Paull, C.K., Caress, D.W., Ussler, W. III, Normark, W.R., "Morphologic expression of gas hydrate growth and accumulation within the seafloor of the Santa Monica Basin, offshore California", Pacific Section AAPG Annual Meeting, Ventura, CA, May 4-5, 2009.
81. Ryan, H.F., Covault, J.A., Lee, H.J., Paull, C.K., Caress, D.W., "Tectonic influence on the generation of cyclic steps by turbidity currents offshore San Mateo Point, Southern California Borderland", Pacific Section AAPG Annual Meeting, Ventura, CA, May 4-5, 2009.
82. Paduan, J.B., Caress, D.W., Clague, D.A., Paull, C.K., Thomas, H., "High-Resolution mapping of mass wasting, tectonic, and volcanic hazards using the MBARI Mapping AUV",

- International conference on seafloor mapping for geohazard assessment, Forio d'Ischia, Italy, May 11-13, 2009.
83. Henthorn, R., Caress, D.W., Chaffey, M.R., McGill, P.R., Kirkwood, W.J., Burgess, W.C., "Development of a High-Resolution Shallow Seismic Refraction Tomography System at the Monterey Bay Aquarium Research Institute", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract OS21A-1148, 2009.
 84. Paull, C.K., Ussler, W., Caress, Thomas, H., Lundsten, E., Riedel, M., Lapham, L., "Seafloor manifestations of gas venting and near seafloor gas hydrate occurrences", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract OS23B-06, 2009.
 85. Ussler, W., Paull, C.K., Lapham, L., Riedel, M., Caress, D.W., "Geochemistry of methane and gas-hydrate-rich shallow sediments associated with active seafloor mounds", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract OS21A-1148, 2009.
 86. Conlin, D., Paull, C.K., Caress, D.W., Thomas, H., Ussler, W., Lundsten, E., Thompson, D., "Distinctive fine-scale morphology of Hydrate Ridge", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract OS31A-1183, 2009.
 87. Thomas, H., Paull, C.K., Caress, D.W., Ussler, W., Lundsten, E., Riedel, M., "Distinctive Fine-scale morphology of gas-rich sites on the Cascadia margin near Bullseye Vent", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract OS31A-1184, 2009.
 88. Riedel, M., Paull, C.K., Spence, G., Hyndman, R.D., Caress, D.W., Thomas, H., Lundsten, E., Ussler, W., "Geophysical signatures of cold vents on the northern Cascadia margin", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract OS31A-1196, 2009.
 89. Lundsten, E., Paull, C.K., Caress, D.W., Ussler, W., Thomas, H., "Topography within the axial channels of Monterey and Soquel Canyons", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract OS31A-1210, 2009.
 90. Caress, D.W., Thomas, H., Conlin, D., Clague, D.A., "Fine-scale morphology of West Mata Volcano and the Northeast Lau Spreading Center, Lau Basin from AUV multibeam surveys", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract OS51D-1731, 2009.
 91. Paduan, J., Clague, D.A., Caress, D.W., Thomas, H., Thompson, D., Conlin, D., "High-resolution AUV mapping reveals structural details of submarine inflated lava flows", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract OS51D-1732, 2009.
 92. Caress, D.W., Thomas, H., Conlin, D., Thompson, D., Paull, C.K., "AUV multibeam bathymetry and sidescan survey of the SS Montebello wreck offshore Cambria CA", Abstract OS13F-1310 presented at 2010 Fall Meeting, AGU, San Francisco CA, 2010.
 93. Yeo, I.A., Clague, D.A., Paduan, J.B., Caress, D.W., "New insights into diking processes from high resolution bathymetry of pillow ridges on the Juan de Fuca and Gorda Ridges", Abstract V11A-2237 presented at 2010 Fall Meeting, AGU, San Francisco CA, 2010.
 94. Conrad, J.E., Paull, C.K., McGann, M.L., Edwards, B.D., Ryan, H.F., Caress, D.W., Ussler, W., Lundsten, E., "Determination of slip rates for offshore fault zones: An example from the Palos Verdes fault zone, southern California", Abstract T33B-2231 presented at 2010 Fall Meeting, AGU, San Francisco CA, 2010.
 95. Maier, K.L., Fildani, A., Romans, B., Paull, C.K., McHargue, T., Graham, S.A., Caress, D.W., "Development of levees on deep-sea channels: Insights from high-resolution AUV exploration of the Lucia Chica system, offshore central California", Abstract OS13C-1242 presented at 2010 Fall Meeting, AGU, San Francisco CA, 2010.
 96. Paduan, J.B., Clague, D.A., Caress, D.W., Thomas, H., Conlin, D., Thompson, D., "Interpretation of 1.5-m resolution AUV bathymetry using ROV observations and samples

- at Davidson and Rodriguez Seamounts”, Abstract V11C-2302 presented at 2010 Fall Meeting, AGU, San Francisco CA, 2010.
97. Clague, D.A., Caress, D.W., Rubin, K.H., Paduan, J.B., “The 2008 Puipui eruption and morphology of the Northeast Lau Spreading Center between Maka and Tafu”, Abstract T11E-03 presented at 2010 Fall Meeting, AGU, San Francisco CA, 2010.
 98. Clague, D.A., Paduan, J.B., Dreyer, B.M., Caress, D.W., “Lava Flow Ages and Geologic Mapping on Mid-Ocean Ridges”, Abstract V11A-2236 presented at 2010 Fall Meeting, AGU, San Francisco CA, 2010.
 99. Paull, C.K., Caress, D.W., Ussler, W., Lundsten, E., McGann, M.L., Conrad, J.E., Edwards, B.D., Covault, J.A., “Anatomy of La Jolla Canyon”, Abstract EP54A-06 presented at 2010 Fall Meeting, AGU, San Francisco CA, 2010.
 100. Paull, C., Caress, D., Lundsten, E., Anderson, K., Gwiazda, R., “Distinctive geomorphology of gas venting and near seafloor gas hydrate-bearing sites”, Abstract presented at GSA Annual Meeting, Minneapolis MN, Oct. 9-12, 2011.
 101. Chadwick, W.B., Clague, D.A., Embley, R.W., Caress, D.W., Paduan, J.B., Sasnett, P., “High-resolution mapping of the 1998 lava flows at Axial Seamount”, Abstract OS11C-01 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.
 102. Paduan, J.B., Clague, D.A., Dreyer, B.M., Caress, D.W., “AUV Mapping and ROV Sampling of Ridges and Seamounts: No Longer Wandering Around in the Dark”, Abstract OS11C-02 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.
 103. Caress, D.W., Clague, D.A., Thomas, H., Thompson, D., Paduan, J.B., Martin, J., Chadwick, W.B., “Extent of the 2011 Axial Seamount eruption from repeated 1 meter scale bathymetry surveys with the MBARI Mapping AUV”, Abstract V11E-2557 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.
 104. Gwiazda, R., Paull, C.K., Caress, D.W., Lundsten, E., Anderson, K., Thomas, H., “Seafloor Morphology Associated With Deep-Water Gas Plumes Near Eel Canyon”, Abstract OS13B-1529 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.
 105. Lundsten, E., Caress, D.W., Paull, C.K., Thomas, H., Anderson, K., Gwiazda, R., “Giant Scours on the Eel Canyon Fan”, Abstract OS13B-1529 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.
 106. Anderson, K., Paull, C.K., Caress, D.W., Thomas, H., Gwiazda, R., Lundsten, E., “Fine-scale morphology of Tubeworm Slump, Monterey Canyon”, Abstract OS13B-1531 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.
 107. Paull, C.K., Caress, D.W., Thomas, H., Lundsten, E., Anderson, K., Gwiazda, R., “High-resolution seafloor mapping surveys over the San Gregorio-Palo Colorado Fault”, Abstract OS13B-1532 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.
 108. Chadwick, W.B., Nooner, S.L., Butterfield, D.A., Lilley, M.D., Clague, D.A., Caress, D.W., Dziak, R.P., Haxel, J.H., “Discovery of the 2011 eruption at Axial Seamount”, Abstract V14C-04 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.
 109. Clague, D.A., Paduan, J.B., Dreyer, B.M., Caress, D.W., Martin, J., “High-resolution AUV mapping and lava flow ages at Axial Seamount”, Abstract V14C-05 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.
 110. Caress, D.W., Thomas, H., Paull, C.K., Clague, D.A., Conlin, D., Thompson, D., Lundsten, E., Anderson, K., Paduan, J.B., Martin, J., “Recent MBARI Mapping AUV Surveys of Slumps, Scours, Gas Seeps, and Spreading Centers”, Abstract OS24A-03 presented at 2011 Fall Meeting, AGU, San Francisco CA, 2011.

111. Thompson, D., Caress, D., Paull, C., Clague, D., Thomas, H., Conlin, D., "MBARI mapping AUV operations: In the Gulf of California", OCEANS 2012 MTS/IEEE, 6404882, Hampton Roads, VA, October 14-19, 2012.
112. Paull, C.K., Caress, D.W., Lundsten, E., Anderson, K., Gwiazda, R., McGann, M. L., Edwards, B. D., Riedel, M., Herguera, J. C., "Distinctive Geomorphology of Gas Venting and Near Seafloor Gas Hydrate-Bearing sites", Abstract OS41E-01 presented at 2012 Fall Meeting, AGU, San Francisco CA, 2012.
113. Clague, D. A., Caress, D.W., Lundsten, L., Martin, J. F., Paduan, J. B., Portner, R. A., Bowles, J. A., Castillo, P. R., Dreyer, B. M., Guardado-France, R., Nieves-Cardoso, C., Rivera-Huerta, J., Santa Rosa-del Rio, M., Spelz-Madero, R., "Geology of the Alarcón Rise Based on 1-m Resolution Bathymetry and ROV Observations and Sampling", Abstract T44A-04 presented at 2012 Fall Meeting, AGU, San Francisco CA, 2012.
114. Caress, D.W., Clague, D. A., Paduan, J. B., Martin, J. F., Thomas, H., Duane Thompson; Nieves-Cardoso, C., Santa Rosa-del Rio, M., "Morphology of the Alarcón Rise spreading axis from 1-m resolution AUV bathymetry surveys", Abstract T51B-2566 presented at 2012 Fall Meeting, AGU, San Francisco CA, 2012.
115. Spelz, R. M., Fletcher, J. M., Nieves-Cardoso, C., Santa Rosa-del Rio, M., Caress, D.W., Clague, D. A., Paduan, J. B., Martin, J. F., Guardado-France, R., "The Alarcón Rise: detail mapping and preliminary results on the geometry, distribution and kinematics of faults and fissures on a ridge-transform system", Abstract T51B-2567 presented at 2012 Fall Meeting, AGU, San Francisco CA, 2012.
116. Martin, J. F., Lieberg-Clark, P., Clague, D. A., Caress, D.W., Portner, R. A., Paduan, J. B., Brian M. Dreyer, "Effect of melt composition and crystal content on flow morphology along the Alarcón Rise, Mexico", Abstract T51B-2571 presented at 2012 Fall Meeting, AGU, San Francisco CA, 2012.
117. Paduan, J. B., Clague, D. A., Caress, D.W., Lundsten, L., Martin, J. F., Nieves-Cardoso, C., "Newly discovered hydrothermal system on the Alarcón Rise, Mexico", Abstract T51B-2572 presented at 2012 Fall Meeting, AGU, San Francisco CA, 2012.
118. Anderson, K., Lundsten, E., Paull, C.K., Caress, D.W., Thomas, H., Gwiazda, R., Herguera, J. C., McGann, M. L., Edwards, B. D., Hinojosa, A., Mejia Mercado, B. E., Sanchez, A. C., Conlin, D., Thompson, D., "Detailed surveys of the transform margin morphology in the Gulf of California", Abstract T51B-2573 presented at 2012 Fall Meeting, AGU, San Francisco CA, 2012.
119. Lundsten, E. M., Anderson, K., Paull, C.K., Caress, D.W., Thomas, H., Gwiazda, R., Herguera, J. C., McGann, M. L., Edwards, B. D., Hinojosa, A., Mejia Mercado, B. E., Sanchez, A. C., Conlin, D., Thompson, D., "Observations of seafloor fluid venting along the transform margin between the North American and Pacific plates in the Gulf of California", Abstract T51B-2575 presented at 2012 Fall Meeting, AGU, San Francisco CA, 2012.
120. Anderson, K.; Lundsten, E.; Paull, C.K.; Edwards, B.D.; Caress, D.W.; Thomas, H.; Gwiazda, R.; Herguera, J.C.; McGann, M.; Hinojosa, A.; Mercado, B.E.M.; Garcia, A.C.S.; Conlin, D.; Thompson, D.R.: Detailed Surveys of a Transform Margin Morphology: Gulf of California, Mexico, AAPG Pacific Section and SPE meeting at Monterey CA, April 22-24, 2013.
121. Caress, D.W.; Clague, D.A.; Paduan, J.B.; Martin, J.F.; Thomas, H.; Thompson, D.; Nieves-Cardoso, C.; Santa Rosa del Rio, M.: High Resolution, 1-m Scale AUV Bathymetric Survey of the Entire Alarcon Rise Spreading Axis, AAPG Pacific Section and SPE meeting at Monterey CA, April 22-24, 2013.

122. Conrad, J.E.; Paull, C.K.; McGann, M.; Edwards, B.D.; Ryan, H.F.; Caress, D.W.; Lundsten, E.: Determining Slip Rates and Deformation History of Offshore Faults Using AUV and ROV, AAPG Pacific Section and SPE meeting at Monterey CA, April 22-24, 2013.
123. Maier, K.L.; Fildani, A.; Paull, C.K.; McHargue, T.R.; Graham, D.S.; Caress, D.W.: Evolution and Architecture of Deep-Sea Channels from High-Resolution Auv Imaging of the Modern Pacific Margin, Offshore Central California , AAPG Pacific Section and SPE meeting at Monterey CA, April 22-24, 2013.
124. Paull, C.K.; McGann, M.; Edwards, B.D.; Barnes, P.; Gwiazda, R.; Lundsten, E.M.; Anderson, K.; Sumner, E.; Caress, D.W.: Decadal Turbidite Recurrence Intervals Recorded in a Giant Scour on Eel Fan, California, AAPG Pacific Section and SPE meeting at Monterey CA, April 22-24, 2013.
125. Martin, E., Thomas, H., Caress, D., Hobson, B., "Seafloor mapping and imaging efforts using autonomous underwater vehicles", UUST, 2013.
126. Thompson, D., Caress, D., Clague, D., Harvey, J., Paduan, J., Paull, C., Ryan, J., Thomas, H., Zhang, Y., "MBARI Dorado AUV's Scientific Results", OCEANS 2013 MTS/IEEE, 6741316, 2013.
127. Caress, D.W., Hobson, B., Thomas, H. J., Henthorn, R., Martin, E., Bird, L., Rock, S. M., Risi, M., Padial, J. A., "ROV seafloor surveys combining 5-cm lateral resolution multibeam bathymetry with color stereo photographic imagery", Abstract OS33A-1756 presented at 2013 Fall Meeting, AGU, San Francisco CA, 2013.
128. Paduan, J. B., Clague, D. A., Caress, D.W., "Perched Lava Pond Complex on South Rift of Axial Volcano Revealed in AUV Mapping", Abstract OS33A-1753 presented at 2013 Fall Meeting, AGU, San Francisco CA, 2013.
129. Brewer, P. G., Peltzer, E. T., Walz, P. M., Caress, D. W., Thomas, H. J., "High Resolution Mapping of an Alleged Chemical Weapons Dump Site in the Santa Cruz Basin, offshore California", Abstract OS33A-1748 presented at 2013 Fall Meeting, AGU, San Francisco CA, 2013.
130. Gwiazda, R., Paull, C. K., Caress, D.W., Sumner, E. J., Lundsten, E. M., Anderson, K., Fucugauchi, J. U., Canales, I., Rebolledo-Vieyra, M., Tubau Carbonell, X., "Multibeam mapping of Cretaceous-Paleogene meteorite impact deposits on the Campeche Escarpment, Yucatán , México", Abstract P41F-1985 presented at 2013 Fall Meeting, AGU, San Francisco CA, 2013.
131. Paull, C.K.; Gwiazda, R.; Lundsten, E.M.; Anderson, K.; Sumner, E.; Caress, D.W.; McGann, M.; Edwards, B.D.; Barnes, P.; "Giant Scour on Eel Fan, California Records Decadal Trubidite Recurrence Interval", Abstract OS52A-07 presented at 2013 Fall Meeting, AGU, San Francisco CA, 2013.
132. Chen, T., Paull, C.K.; Anderson, K.; Thomas, H. J.; Caress, D.W.; Gwiazda, R.; Conlin, D.; Sumner, E.; "AUV Surveys Reveal Seafloor Linear Cracks Along a Fault Zone Offshore Southwest Taiwan", Abstract OS33A-1751 presented at 2013 Fall Meeting, AGU, San Francisco CA, 2013.
133. Anderson, K.; Lundsten, E. M; Paull, C.K.; Caress, D.W.; Thomas, H. J.; Brewer, P. G.; Vrijenhoek, R.; "Observations of Seafloor Deformation and Methane Venting within an Active Fault Zone Offshore Southern California", Abstract OS13A-1694 presented at 2013 Fall Meeting, AGU, San Francisco CA, 2013.
134. Caress, D.W.; "Deep ocean seafloor mapping at scales of meters to centimeters using ROVs and AUVs", NPS International Mine Warfare Technology Symposium, Monterey, CA, May 6, 2014.

135. Paull, C. K., D. W. Caress, R. Gwiazda, J. Urrutia-Fucugauchi, M. Rebolledo-Vieyra, E. Lundsten, K. Anderson, E. Sumner, Extensive K-Pg boundary outcrops closest to the Chicxulub impact crater identified in new bathymetric maps of the Campeche Escarpment, Abstract presented at GSA Annual Meeting, Vancouver, BC, Canada, October 19-22, 2014.
136. Lundsten, E. M., K. Anderson, C. K. Paull, D. W. Caress, H. J. Thomas, M. Riedel, "Morphology of Neptune Node Sites, Barkley Canyon, Cascadia Margin", Abstract OS31A-0977 presented at 2014 Fall Meeting, AGU, San Francisco CA, 2014.
137. Caress, D. W., B. Hobson, H. J. Thomas, R. Henthorn, E. J. Martin, L. Bird, M. Risi, G. Troni, C. K. Paull, S. Rock, J. A. Padial, M. M. Hammond, "Repeated 1-cm Resolution Topographic and 2.5-mm Resolution Photomosaic Surveys of Benthic Communities and Fine Scale Bedforms in Monterey Canyon", Abstract OS31A-0979 presented at 2014 Fall Meeting, AGU, San Francisco CA, 2014.
138. Paull, C. K., D. W. Caress, R. Gwiazda, E. M. Lundsten, K. Anderson, E. J. Sumner, M. McGann, D. S. Brothers, J. C. Herguera, "Marine Neotectonic Investigations Using Integrated AUV and ROV Surveys", Abstract OS31E-05 presented at 2014 Fall Meeting, AGU, San Francisco CA, 2014.
139. Maier, K. L., C. K. Paull, D. S. Brothers, M. McGann, D. W. Caress, E. M. Lundsten, K. Anderson, R. Gwiazda, "Marine neotectonic investigation of the San Gregorio Fault Zone on the northern flank of Monterey Canyon, offshore central California", Abstract OS33B-1056 presented at 2014 Fall Meeting, AGU, San Francisco CA, 2014.
140. Chaytor, J. D., E. L Geist, C. K Paull, D. W. Caress, R. Gwiazda, J. Urrutia Fucugauchi, M. Rebolledo-Vieyra, "Preliminary Source Characterization and Tsunami Modeling of Submarine Landslides along the Yucatan Shelf/Campeche Escarpment, southern Gulf of Mexico", Abstract OS33B-1063 presented at 2014 Fall Meeting, AGU, San Francisco CA, 2014.
141. Paduan, J. B., D. A. Clague, D. W. Caress, "Constructional Talus: Formed during Eruption, Not By Later Tectonism", Abstract V31B-4742 presented at 2014 Fall Meeting, AGU, San Francisco CA, 2014.
142. Clague, D. A., J. B. Paduan, D. W. Caress, "Lava Cones and Shields on Intermediate-Rate Mid-Ocean Ridges", Abstract V31B-4743 presented at 2014 Fall Meeting, AGU, San Francisco CA, 2014.
143. Maier, K.L., C.K. Paull, D.S. Brothers, M. McGann, D.W. Caress, E.M. Lundsten, K. Anderson, R. Gwiazda, "High-resolution neotectonic investigation of the San Gregorio Fault Zone, offshore central California", Seismological Society of America meeting, Pasadena, CA, 2015.
144. Paduan, J. B., D. A. Clague, D. W. Caress, B. Dreyer, R. A. Portner, J. F. Martin, W. W. Chadwick, "High-resolution mapping and sampling of historic flows on the Juan de Fuca and Gorda Ridges", 2015 GSA Annual Meeting, GSA, Baltimore, MD, 2015.
145. Caress, D. W., D. A. Clague, J. B. Paduan, H. Thomas, "Vertical deformation of the Axial Seamount summit from repeated 1-m scale bathymetry surveys with the MBARI Mapping AUV", 2015 GSA Annual Meeting, GSA, Baltimore, MD, 2015.
146. Zierenberg, R., D. A. Clague, J. B. Paduan, D. W. Caress, "New maps focus 30-odd years of investigation of the Escanaba Trough spreading center", 2015 GSA Annual Meeting, GSA, Baltimore, MD, 2015.
147. Hinojosa, A., D. Caress, A. Trasvina, D. Carlos Trasvina, J. Barry, G. Troni, O. Aburto-Oropeza, A. Frederic Johnson, H. Thomas, D. Conlin, D. Thompson, "Cabo Pulmo BCS, integracion del relieve submarino y terrestre a partir de vehículos autónomos no

- tripulados”, Reunion Annual 2015, Union Geofisica Mexicana (UGM), Puerto Vallarta, Mexico, 2015.
148. Thompson, D., D. Caress, H. Thomas, D. Conlin, “MBARI mapping AUV operations in the gulf of California 2015”, OCEANS 2015 - MTS/IEEE Washington, 2015.
 149. Maier, K. L., D. S. Brothers, C. K. Paull, M. McGann, D. W. Caress, J. E. Conrad, “Linking slope sedimentation, gradient, morphology, and active faulting: An integrated example from offshore Palos Verdes, southern California Borderland”, EP12A-04, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 150. Paduan, J. B., D. A. Clague, D. W. Caress, L. Lundsten, R. Zierenberg, G. Troni, G. Wheat, “Seafloor hydrothermal activity in the southern Gulf of California”, OS22C-03, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 151. Clague, D. A., D. W. Caress, B. Dreyer, J. B. Paduan, E. M. Lundsten, J. A. Bowles, P. R. Castillo, R. Guardado-France, R. A. Portner, R. M. Spelz, R. Zierenberg, “AUV mapping and targeted sampling on the Alarcon Rise”, OS22C-07, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 152. Paull, C. K., S. Dallimore, D. W. Caress, R. Gwiazda, E. M. Lundsten, K. Anderson, M. Riedel, H. Melling, “Slope edge deformation and permafrost dynamics along the Arctic shelf edge, Beaufort Sea, Canada”, OS22B-07, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 153. Caress, D. W., G. Troni, D. A. Clague, J. B. Paduan, J. F. Martin, H. Thomas, D. Thompson, D. Conlin, E. Martin, E. Meneses-Quiroz, C. Nieves-Cardoso, M. A. Santa Rosa del Rio, “Detection of active hydrothermal vent fields in the Pescadero Basin and on the Alarcon Rise using AUV multibeam and CTD data”, OS23C-2027, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 154. McGann, M., C. K. Paull, J. C. Herguera, J. A. Barron, R. Gwiazda, K. Anderson, E. M. Lundsten, B. D. Edwards, D. W. Caress, “Late Holocene record of sedimentologic and paleoceanographic events in western Guayamas Basin, Gulf of California”, OS23C-2022, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 155. Anderson, K., E. M. Lundsten, C. K. Paull, D. W. Caress, H. Thomas, K. L. Maier, M. McGann, J. C. Herguera, R. Gwiazda, S. Arregui, L. A. Barrientos, “Submarine Neotectonic Investigations of the Bahia Soledad Fault, off Northern Baja California Near the US – Mexico Border”, NH23B-1880, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 156. Lundsten, E. L., C. K. Paull, D. W. Caress, S. R. Dallimore, C. Liu, K. Anderson, R. Gwiazda, “Mud Volcanoes from the Beaufort Sea to the South China Sea”, OS31B-04, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 157. Troni, G., D. W. Caress, D. Graves, H. Thomas, D. Thompson, J. P. Barry, O. Aburto-Oropeza, A. F. Johnson, “AUV mapping and ROV exploration of Los Friles submarine canyon, Cabo Pulmo National Marine Park, Baja California Sur, Mexico”, OS33A-2017, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 158. Noonan, S. L., W. W. Chadwick, D. W. Caress, D. A. Clague, J. B. Paduan, D. Yoerger, G. Sasagawa, “Deformation associated with the 2015 eruption of Axial Seamount”, OS43A-2015, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 159. Gwiazda, R., C. K. Paull, D. W. Caress, E. M. Lundsten, K. Anderson, J. C. Herguera, M. McGann, K. L. Maier, “Extensive barite deposits on a seepage site along the offshore San Clemente Fault, Mexican Borderland”, OS43A-2003, 2015 Fall Meeting, AGU, San Francisco CA, 2015.
 160. Thompson, D., D. Caress, H. Thomas, D. Colin, MBARI Mapping AUV operations in the Gulf of California, OCEANS 2016 MTS/IEEE Monterey, 2016. [2]

161. Paduan, J. B., D. A. Clague, D. W. Caress, H. Thomas, High-Resolution AUV mapping and ROV sampling of mid-ocean ridges, OCEANS 2016 MTS/IEEE Monterey, 2016.
162. Martin, E., D. W. Caress, H. Thomas, B. Hobson, R. Henthorn, M. Risi, C. K. Paull, J. Barry, G. Troni, Enabling New Techniques in Environmental Assessment Through Multi-Sensor Hydrography, OCEANS 2016 MTS/IEEE Monterey, 2016.
163. Paull, C. K., K. Anderson, J. P. Barry, D. W. Caress, M. R. Chaffey, J. A. Gales, R. Gwiazda, K. Kieft, E. M. Lundsten, K. L. Maier, M. P. McCann, M. McGann, T. O'Reilly, D. R. Parsons, K. J. Rosenberger, E. Sumner, P. J. Talling, J. Xu, "Most Detailed Direct Measurements Yet of Turbidity Currents in the Deep Ocean: Monterey Coordinated Canyon Experiment", OS12C-01, 2016 AGU Fall Meeting, AGU, San Francisco CA, 2016.
164. Carvajal, C., C. K. Paull, D. W. Caress, K. Anderson, E. M. Lundsten, R. Gwiazda, A. Fildani, Mason Dykstra, M. McGann, K. L. Maier, J. C. Herguera, "Characterization of the Navy Fan Channel-to-Lobe Transition: Geomorphology, Gradient, and Structure Imaged through High-Resolution AUV Bathymetry", OS12C-04, 2016 AGU Fall Meeting, AGU, San Francisco CA, 2016.
165. Lundsten, E. M., D. W. Caress, H. Thomas, K. Anderson, C. K. Paull, K. L. Maier, R. Gwiazda, "Repeat mapping surveys capture changes in seafloor morphology after a well-documented sediment gravity flow event in Monterey Canyon", OS13C-1830, 2016 AGU Fall Meeting, AGU, San Francisco CA, 2016.
166. Le Saout, M., D. A. Clague, J. B. Paduan, D. W. Caress, "Evolution of fine scale segmentation at intermediate ridges: example of Alarcon Rise and Endeavour Segment", OS31D-2066, 2016 AGU Fall Meeting, AGU, San Francisco CA, 2016.
167. Paduan, J. B., W. W. Chadwick, D. A. Clagues, M. Le Saout, D. W. Caress, H. J. Thomas, D. Yoerger, "High-resolution AUV mapping of the 2015 flows at Axial Seamount, Juan de Fuca Ridge", OS41C-1990, 2016 AGU Fall Meeting, AGU, San Francisco CA, 2016.
168. Caress, D. W., D. A. Clagues, J. B. Paduan, H. J. Thomas, W. W. Chadwick, S. L. Nooner, D. Yoerger, "Vertical deformation of the Axial Seamount summit from repeated 1-m scale bathymetry surveys using AUVs", OS41C-1991, 2016 AGU Fall Meeting, AGU, San Francisco CA, 2016.
169. Clague, D. A., J. B. Paduan, C. L. Moyer, B. T. Glazer, D. W. Caress, D. Yoerger, C. L. Kaiser, "Structure and Evolution of Hawaii's Loihi Seamount from High-resolution Mapping", OS43D-01, 2016 AGU Fall Meeting, AGU, San Francisco CA, 2016.
170. Clague, D.A., J.B. Paduan, D.W. Caress, B.M. Dreyer, R.A. Portner (2017) In-situ study of submarine volcanism using 1m-resolution AUV-based seafloor mapping with targeted lava and sediment sampling using ROVs. Oral presentation (invited) at 2017 AGU Chapman Conference: Submarine Volcanism, AGU, Hobart, Tasmania, Aus., 29 Jan - 3 Feb.
171. LeSaout, M.L., D.A Clague, J.B. Paduan, D.W. Caress, D.R. Bohnenstiehl, C. Garcia (2017) Morphological variability of the top of large inflated pillow mounds: indication about eruptive processes. D1-28 presented at 2017 AGU Chapman Conference: Submarine Volcanism, AGU, Hobart, Tasmania, Aus., 29 Jan - 3 Feb.
172. Paduan, J.B., D.A. Clague, W.W. Chadwick, D.W. Caress, M.L. LeSaout, H.J. Thomas (2017) Examination of the Axial 2011 and 2015 lava flows from high-resolution AUV bathymetry and ROV dives. D1-27 presented at 2017 AGU Chapman Conference: Submarine Volcanism, AGU, Hobart, Tasmania, Aus., 29 Jan - 3 Feb.
173. Chen, T.T., C.S. Liu, C.C. Su, H.H. Hsu, C. K. Paull, D. W. Caress, R. Gwiazda, E. Lundsten (2017) Ultra-high resolution seafloor seepage features and mud volcanoes in the active

- margin offshore of SW Taiwan, 2017 International Conference on Gas Hydrate in Continental Margins, Taipei, Taiwan, October 2-3, 2017.
174. Paull, C.K., P. Talling, K. L. Maier, D. R. Parsons, J. Xu, D. W. Caress, R. Gwiazda, E. M. Lundsten, K. Anderson, J. Barry, M. R. Chaffey, T. C. O'Reilly, K. J. Rosenberger, J. A. Gales, M. McGann, M. P. McCann, S. Simmons, E. Sumner and Monterey Coordinated Canyon Experiment Team, "Direct Measurements of the Evolution and Impact of Sediment Density Flows as they Pass Through Monterey Submarine Canyon, Offshore California", EP11E-01, 2017 AGU Fall Meeting, AGU, New Orleans LA, 2017.
 175. Su, C., T. Chen, C. K. Paull, R. Gwiazda, Y. Chen, E. M. Lundsten, D. W. Caress, H. Hsu and C. Liu, "The 2006 Pingtung Earthquake Doublet Triggered Seafloor Liquefaction: Revisiting the Evidence with Ultra-High-Resolution Seafloor Mapping ", EP12C-03, 2017 AGU Fall Meeting, AGU, New Orleans LA, 2017.
 176. K. Anderson, E. M. Lundsten, D. W. Caress, H. J. Thomas, C. K. Paull, K. L. Maier, J. A. Gales, R. Gwiazda, P. Talling, J. Xu, D. R. Parsons and Monterey Coordinated Canyon Experiment "Repeat Mapping in the Lower Monterey Submarine Canyon Sheds Light on Morphological Change During Discrete Sediment Density Flow Events", EP13C-1631, 2017 AGU Fall Meeting, AGU, New Orleans LA, 2017.
 177. E. M. Lundsten, K. Anderson, D. W. Caress, H. J. Thomas, C. K. Paull, K. L. Maier, R. Gwiazda, J. A. Gales, P. Talling, J. Xu, D. R. Parsons, and Monterey Coordinated Canyon Experiment Team, "Repeat Mapping in Upper Monterey Canyon Captures the Effect of Sediment Transport Events of Known Magnitude and Duration on the Seafloor Morphology", EP13C-1632, 2017 AGU Fall Meeting, AGU, New Orleans LA, 2017.
 178. M. Wolfson-Schwehr, C. K. Paull, D. W. Caress, C. Carvajal, H. J. Thomas, K. L. Maier, D. R. Parsons, S. Simmons and Monterey Coordinated Canyon Experiment Team, "Ensonifying Change: Repeat Ultra-High-Resolution Surveys in Monterey Canyon before and after Passage of a Turbidity Current", EP13C-1634, 2017 AGU Fall Meeting, AGU, New Orleans LA, 2017.
 179. D. W. Caress, C. K. Paull, S. Dallimore, E. M. Lundsten, K. Anderson, R. Gwiazda, H. Melling, L. Lundsten, D. Graves, H. J. Thomas and M. Cote, "Repeat AUV Mapping and ROV Observations of Active Mud Volcanos on the Canadian Beaufort Sea Continental Slope" OS34A-07, 2017 AGU Fall Meeting, AGU, New Orleans LA, 2017.
 180. T. Chen, H. Hsu, C. Liu, C. Su, C. K. Paull, Y. Chen, D. W. Caress, R. Gwiazda and E. M. Lundsten, "Distribution and Characteristics of Seafloor Seepage Features in the Active Margin Offshore of SW Taiwan" OS53C-1220, 2017 AGU Fall Meeting, AGU, New Orleans LA, 2017.
 181. H. Hsu, T. Chen, C. Liu, C. Su, C. K. Paull, D. W. Caress, R. Gwiazda and Y. Chen , "High-Resolution Seafloor Observations of an Active Mud Volcano Offshore SW Taiwan - Results of a Repeated Survey after Four Years", OS53C-1224, 2017 AGU Fall Meeting, AGU, New Orleans LA, 2017.
 182. Y. Chen, C. Su, T. Chen, C. Liu, C. K. Paull, D. W. Caress, R. Gwiazda, E. M. Lundsten and H. Hsu, "Comparison with Offshore and Onshore Mud Volcanoes in the Southwestern Taiwan", OS53C-1226, 2017 AGU Fall Meeting, AGU, New Orleans LA, 2017.
 183. C. K. Paull, D. W. Caress, J. Barry, E. Lundsten, K. Anderson, M. Schwehr, R. Gwiazda, Telescoping resolutions for abyssal seafloor mapping, GeoHab 2018, Santa Barbara, CA, 2018.
 184. K. Anderson, M. Schwehr, E. Lundsten, D. W. Caress, C. K. Paull, K. L. Maier, R. Gwiazda, J. Gales, P. Talling, J. Xu, D. Parsons, H. Thomas, Repeat mapping in the lower Monterey

- Submarine Canyon sheds light on morphological change during discrete sediment density flow events, GeoHab 2018, Santa Barbara, CA, 2018.
185. E. Lundsten, K. Anderson, D. W. Caress, C. K. Paull, K. L. Maier, R. Gwiazda, J. Gales, P. Talling, J. Xu, D. Parsons, H. Thomas, Repeat mapping in Upper Monterey Canyon captures the effect of sediment transport events on known magnitude and duration on the seafloor morphology, GeoHab 2018, Santa Barbara, CA, 2018.
 186. K Maier, C. K. Paull, A. Fildani, D. W. Caress, K. Anderson, E. M. Lundsten, R. Gwiazda, C. Carvajal, "Deep-sea channel seafloor expression at loss of confinement: Insights from high-resolution AUV mapping, offshore southern California", OS11A-06, 2018 AGU Fall Meeting, Washington DC, 2018.
 187. D. W. Caress, H. J. Thomas, E. J. Martin, J. A. Hamilton, M. Risi, L. Bird, R. Henthorn, G. Troni, B. Hobson, C. K. Paull, J. Barry, K. L. Maier, M. W. Schwehr, S. Rock, E. Trauschke, E. Slattery, C. Dawe, M Burczynski, D. J. Osborne, "1-cm Resolution Seafloor Surveys Combining Wide Swath Lidar, Multibeam Sonar, Stereo Cameras, and INS on an Articulating ROV Toolsled", OS33D-1920, 2018 AGU Fall Meeting, Washington DC, 2018.
 188. W. Hefner, S. L. Nooner, W. Chadwick, D. W. Caress, D. R. Bohnenstiehl, J. B. Paduan, D. A. Clague, "Magmatic Source Estimates at Axial Seamount for the 2015 Eruption From Seafloor Deformation and Seismic Data", V43G-0212, 2018 AGU Fall Meeting, Washington DC, 2018.
 189. C. K. Paull, S. R. Dallimore, R. Gwiazda, D. W. Caress, E. Lundsten, K. Anderson, H. Melling, Y. K. Jin, M. J. Duchesne, Submarine Permafrost dynamics along the Arctic shelf edge, GeoHab 2019, St. Petersburg, Russia, 2019.
 190. R. Gwiazda, C. K. Paull, D. W. Caress, C. M. Preston, S. B. Johnson, E. Lundsten, K. Anderson, High-resolution mapping and Remotely Operated Vehicle observations of the largest cold-seep barite deposits discovered to date, GeoHab 2019, St. Petersburg, Russia, 2019.
 191. C.K. Paull, P.J. Talling, K.L. Maier, D. Parsons, J. Xu, D.W. Caress, M. Wolfson-Schwehr, R. Gwiazda, E. Lundsten, K. Anderson, N.M. Nieminski, J. Barry, K. Rosenberger, J. Gales, M. McGann, S.M. Simmons, T.D. Lorenson, & Monterey Coordinated Canyon Experiment Team, Innovative monitoring captures the passage and impact of submarine canyon turbidity currents, AAPG-SEPM, San Antonio, TX, 2019.
 192. C. K. Paull, E. M. Lundsten, K. Anderson, D. W. Caress, R. Gwiazda, M. Wolfson-Schwehr, N. Nieminski, J. P. Barry, J. Xu, M. McGann and T. D. Lorenson, Monterey Canyon, a Sand Transport Conduit and Temporary Storage Reservoir, OS31A-04, 2019 AGU Fall Meeting, San Francisco, 2019.
 193. D. W. Caress, R. A. Zierenberg, D. A. Clague, S. Goffredi, R. N. Harris, E. J. Martin, R. Negrete-Aranda, F. Neumann, V. J. Orphan, J. B. Paduan, G. W. Rouse, R. M. Spelz, H. J. Thomas and S. L. Walker, Use of 1-M Scale AUV and 1-Cm Scale ROV Surveys to Guide Exploration and Sampling of the Auka Hydrothermal Vent Field, South Pescadero Basin, Gulf of California , OS13C-1558, 2019 AGU Fall Meeting, San Francisco, 2019.
 194. M. Wolfson-Schwehr, C. K. Paull, D. W. Caress, N. Nieminski, R. Gwiazda, H. J. Thomas, E. J. Martin, M. Risi and G. Troni, Quantifying centimeter-scale changes in seafloor morphology associated with sediment flows and tidal currents in Monterey Canyon using a ROV-mounted, low-altitude survey system , OS33C-1809, 2019 AGU Fall Meeting, San Francisco, 2019.
 195. W. Hefner, S. L Nooner, W. W. Chadwick Jr, D. R. Bohnenstiehl, D. W. Caress, J. B. Paduan and D. A. Clague, Magmatic Deformation Models including Caldera-Ring Faulting for

- the 2015 Eruption of Axial Seamount , OS51B-1486, 2019 AGU Fall Meeting, San Francisco, 2019.
196. E. M. Lundsten, C. K. Paull, D. W. Caress, R. Gwiazda, G. R. Cochrane, M. A. L. Walton, N. Nieminski, Commingled Seafloor Pockmarks and Micro Depressions Offshore Big Sur, California, EP11B-02, 2019 AGU Fall Meeting, San Francisco, 2019.
 197. V. J. Orphan, D. R. Speth, A. Crémière, J. S. Magyar, K. Metcalfe, F. Wu, Y. Guo, S. Webb, H. M. Sapers, D. W. Caress and R. A. Zierenberg, Genomic diversity and microbial activities fueled by deep fluids , EP54B-05, 2019 AGU Fall Meeting, San Francisco, 2019.
 198. R. Negrete-Aranda, F. Neumann, R. N. Harris, J. Contreras, R. A. Zierenberg, D. W. Caress, First Heat Flow Measurements in the Auka and JaichMaa 'ja'ag vent fields Pescadero Basin, Southern Gulf of California , V13D-0187, 2019 AGU Fall Meeting, San Francisco, 2019.
 199. N. Nieminski, C. K. Paull, M. Wolfson-Schwehr and D. W. Caress, Matching individual turbidites to instrumentally measured sediment gravity flow events in Monterey Canyon, offshore California, OS32A-03, 2019 AGU Fall Meeting, San Francisco, 2019.
 200. J. B. Paduan, R. A. Zierenberg, D. W. Caress, R. M. Spelz, D. A. Clague and S. L. Walker, Mapping Pescadero Basin Hydrothermal Vent Fields at Multiple Scales , V33E-0235, 2019 AGU Fall Meeting, San Francisco, 2019.
 201. CK Paull, S. Dallimore, YK Jin, DW Caress, EM Lundsten, K Anderson, R Gwiazda, M Riedel, H Melling, MJ Duchesne, EL King, Submarine permafrost dynamics along the Arctic shelf edge, EP11B-01, 2019 AGU Fall Meeting, San Francisco, 2019.
 202. CK Paull, EM Lundsten, DW Caress, R Gwiazda, GR Cochrane, MAL Walton, M McGann, TD Lorenson, L Kuhnz, L Lundsten, L Gilbane, C White, SC Dobbs, Origins of pockmarks offshore Big Sur, California, Ocean Sciences Meeting, San Diego, 2020
 203. L. A. Vega-Ramirez, R. M. Spelz, J. Contreras, D. W. Caress, D. A. Clague, J. B. Paduan, A new Method for Fault-Scarp Detection Using Linear Discriminant Analysis (LDA) in High-Resolution Bathymetry Data From the Alarcón Rise and Pescadero Basin, Gulf of California, EP031-0012, 2020 AGU Fall Meeting, Virtual, 2020.
 204. M. A. L. Walton, G. R. Cochrane, C. K. Paull, J. A. Addison, D. W. Caress, L. Gilbane, H. G. Greene, R. Gwiazda, D. Kennedy, J. Kluesner, E. M. Lundsten, New insights into the tectonic history and Quaternary fault activity of the Santa Lucia Bank region, offshore south-central California, NH002-0013, 2020 AGU Fall Meeting, Virtual, 2020.
 205. J. B. Paduan, D. A. Clague, D. W. Caress, M. Le Aaout, B. M. Dreyer, Systematic Variations in Lava Flow Morphology Along the North and South Rift Zones of Axial Seamount, V040-0015, 2020 AGU Fall Meeting, Virtual, 2020.
 206. D. W. Caress, D. A. Clague, J. B. Paduan, W. W. Chadwick Jr, S. L. Nooner, H. J. Thomas, Vertical Deformation of the Axial Seamount Summit from Repeated 1-m Scale Bathymetry Surveys Using AUVs, V040-0017, 2020 AGU Fall Meeting, Virtual, 2020.