

# Joseph Anton Resing

*Joint Institute for the Study of the Atmosphere and Ocean  
Pacific Marine Environmental Laboratory and the University of Washington*  
7600 Sand Point Way N.E. Seattle, WA. 98115  
[resing@uw.edu](mailto:resing@uw.edu) [joseph.resing@noaa.gov](mailto:joseph.resing@noaa.gov) W: 206-526-6184

## EDUCATION

- 1997 Ph.D.: Chemical Oceanography**, University of Hawaii, Honolulu, Hawaii.  
*The chemistry of lava-seawater interactions at the shoreline of Kilauea Volcano*
- 1992 M.S.: Chemical Oceanography**, University of Hawaii, Honolulu, Hawaii.  
*Determination of manganese in seawater using flow injection analysis with online pre-concentration and spectrophotometric detection*
- 1986 B.S.: Chemistry**, DePaul University, Chicago Illinois.

## EMPLOYMENT EXPERIENCE

Current:

- Senior Research Scientist**, Joint Institute for the Study of the Atmosphere and Ocean  
University of Washington and the Pacific Marine Environmental Laboratory  
(PMEL), Seattle, Washington. (1999- Present)
- Affiliate Associate Professor**, Department of Oceanography, University of Washington,  
Seattle.

Prior:

- 2001-12 **Affiliate Assistant Professor**, Department of Oceanography, University of  
Washington, Seattle.
- 1997-99. **National Research Council Post-Doctoral Fellow**. National Oceanographic  
Atmospheric Administration, PMEL, Seattle, Washington.
- 1988-96 **University of Hawaii at Manoa, Research Assistant**, Department of  
Oceanography.
- 1987 **Hazardous waste environmental assessment**. Pearl Harbor Public Works  
Facility.
- 1986-87 **Teaching Assistant**, University of Hawaii at Manoa, Department of Chemistry.
- 1985 **Summer Intern**, Harbor Branch Foundation, Inc., Fort Pierce Florida.
- 1984-86 **Research Assistant**, DePaul University, Department of Chemistry .
- 1983 **Marine Science Counselor**, SeaCamp, Big Pine Key Florida.
- 1982 **Research Apprentice**, Naval Research Laboratory, Washington, D.C..

## LEADERSHIP EXPERIENCE

- 2016 **Search Committee:** Univ. of Washington Chemical Oceanography Faculty Search
- 2015 **Chief Scientist:** Hydrothermal Hunt in the Mariana, RV Falkor
- 2014 **PMEL-5 Year Review:** EOI-Team Presentation
- 2012 **Panel Member:** InterRidge Liaison Panel on Ocean Mining Exploration
- 2012 **Chief Scientist:** Submarine Ring of Fire 2012-NE Lau Basin, *RV Roger Revelle*
- 2012 **Development of Memoranda of Understanding** between GNS-New Zealand, Nautilus Minerals Australia, the University of Bremen-Germany, and NOAA-PMEL (in concert with R. Embley and E. Baker, NOAA-PMEL).
- 2012 **Science Key Note Presentation:** NOAA- Senior Research Council Winter Quarter meeting
- 2010-14 **Associate Editor:** Assessing Magmatic, Neovolcanic, Hydrothermal, and Biological Processes along Intra-Oceanic Arcs and Back-Arcs, Geochemistry, Geophysics, Geosystems
- 2007-pr Univ. of Washington Perspective Chemical Oceanography graduate student review and selection committee
- 2010 **Chief Scientist:** Exploration of NE Lau Basin, *RV Kila Moana*
- 2009 **Chief Scientist,** NE Lau Response Cruise, *T.G. Thompson*
- 2009 **Session Co-chair Fall 2009 AGU Meeting:** “Submarine Volcanic Eruptions: Studies of Geological, Chemical, and Biological Processes”
- 2010-13 **Chair,** City of Lake Forest Park Transportation Commission
- 2007-13 **Commissioner,** City of Lake Forest Park Transportation Commission
- 2007-10 **Advisory Committee,** NSF-Marine Geology and Geochemistry Data Systems
- 2006-09 **Steering Committee,** NSF-Ridge 2000
- 2006 **Session Co-Chair** Fall 2006 AGU Meeting: “Recent Deep-Sea Eruptions”
- 2002 **Convener:** 2002 Ocean Sciences Meeting: “Chemical Oceanography: Metals”

## MANUSCRIPTS IN ACTIVE PREPARATION

- German, C., **J. Resing**, G. Xu, I. Yeo, C. Devey, O. Hyvernaud, D. Reymond. (2016) Hydrothermal Activity at Teahitia Seamount, 17°34’S, 148°49’W: An Active Intra-Plate Hot-Spot Volcano[draft available; submission in spring-summer 2016].
- Ganachaud, A., M. Albrerty, F. Baurand, G. Benavides, H. Berthelot, S. Bonnet, S. G. Eldin, C. Germinaud, J. Grelet, L-E. Heimburger, C., W. Kessler, M. Kilepak, F. Lacan, J. Lefèvre, F. Marin, N. Metzl, S. Michael, E. Emilien, F. Quérroué, J. Resing, M. Rodier, G. Sarthou, U. Send, J. Sprintall, P. Van Beek. (2016) Two oceanographic cruises explore the Solomon Sea circulation, chemistry and biology. To be submitted to *Elementa: Sci. Anthr*, spring 2016 [draft available].
- Barrett, P.M., J. A. Resing, M. M. Grand, C. I. Measures, P.L. Morton, W. M. Landing. (2016) Trace element composition of suspended particulate matter from high-resolution sampling along meridional CLIVAR sections in the Indian Ocean Pacific [draft available; submission in spring-summer 2016].

## SUBMITTED MANUSCRIPTS

- Tagliabue, A. and **J.A. Resing**. Impact of hydrothermalism on the ocean iron cycle. [Submitted to Philosophical Transactions of the Royal Society A, April 1, 2016].
- Konn, C. and E. Pelleter, E. Fourr<sup>3</sup>, P. Jean-Baptiste, J.P. Donval, V. Guyader, D. Birot, A.S. Alix, A. Gaillot, F. Perez, A. Dapoigny, **J.A. Resing**, J.L. Charlou, Y. Fouquet, Scientific Party (2016) Extensive hydrothermal activity revealed by multi-tracer survey in the Wallis and Futuna region (SW Pacific) Deep-Sea Research Part I [Revised and resubmitted April 30, 2016].
- Hawco, N. J., D.C. Ohnemus, **J. A. Resing**, B. S. Twining, M. A. Saito. (2016) A cobalt plume in the oxygen minimum zone of the Eastern Tropical South Pacific, *Biogeoscience*, [submitted, April 30, 2016].

## PUBLICATIONS

81. Baker, E.T., **J.A. Resing**, R.M. Haymon, V. Tunnicliffe, F. Martinez, V. Ferrini, S.L. Walker, and K. Nakamura (2016): How many vent fields? New estimates of vent field populations on ocean ridges from precise mapping of hydrothermal discharge locations. *Earth Planet. Sci. Lett.* [In Press May, 2016]
80. Santana-Casiano, J. M., E. Fraile-Nuez, M. González-Dávila, E. T. Baker, J. A. Resing and S. L. Walker (2016) Significant discharge of CO<sub>2</sub> from hydrothermalism associated with the submarine volcano of El Hierro Island, *Scientific Reports*, 6, 25686, doi: 10.1038/srep25686.
79. Grand, M.M., C.I. Measures, M. Hatta, P.L. Morton, P.M. Barrett, A. Milne, J.A. Resing, and W.M. Landing (2015): The impact of circulation and dust deposition in controlling the distributions of dissolved Fe and Al in the South Indian subtropical gyre. *Mar. Chem.*, 176, 110–125, doi: 10.1016/j.marchem.2015.08.002.
78. Hahm, D., E.T. Baker, T.S. Rhee, Y.-J. Won, J.A. Resing, J.E. Lupton, W.-K. Lee, M. Kim, and S.-H. Park (2015): First hydrothermal discoveries on the Australian-Antarctic Ridge: Discharge sites, plume chemistry, and vent organisms. *Geochem. Geophys. Geosyst.*, 16 (9), 3061–3075, doi: 10.1002/2015GC005926.
77. Barrett, P.M., **J. A. Resing**, N.J. Buck, W. M. Landing, P. L. Morton, R. U. Shelley (2015) Changes in the distribution of Al and Fe in the eastern North Atlantic Ocean 2003-2013: Implications for trends in dust deposition. *Marine Chemistry*, doi: 10.1016/j.marchem.2015.02.009.
76. **Resing, J.A.**, P.N. Sedwick, C. R. German, W. J. Jenkins, J.E. Lupton, J. W. Moffett, B. M. Sohst, A. Tagliabue (2015). Basin-scale transport of hydrothermal dissolved metals across the South Pacific Ocean. *Nature*, 523, DOI:10.1038/nature1457, 200-203.
75. Lupton, J., K.H. Rubin, R. Arculus, M. Lilley, D. Butterfield, **J. Resing**, E. Baker, and R. Embley (2015): Helium isotope, C/<sup>3</sup>He, and Ba-Nb-Ti signatures in the northern Lau

- Basin: Distinguishing arc, back-arc, and hotspot affinities. *Geochem. Geophys. Geosyst.*, 16, doi: 10.1002/2014GC005625, 1133-155.
74. Grand, M.M., C.I. Measures, M. Hatta, W.T. Hiscock, W.M. Landing, P.L. Morton, C.S. Buck, P.M. Barrett, **J.A. Resing** (2015) Dissolved Fe and Al in the upper 1000m of the eastern Indian Ocean: high-resolution data from the Antarctic margin to the Bay of Bengal, *Global Biogeochemical Cycles* doi: 10.1002/2014GB004920.
73. Lam, P.J., B.S. Twining, C. Jeandel, A. Roychoudhury, **J. Resing**, W. Geibert, P. Santschi, R. F. Anderson, (2015). Methods for analysing the composition and speciation of marine particles, *Progress in Oceanography*, doi: 10.1016/j.pocean.2015.01.005.
72. Chadwick, Jr., W.W., S.G. Merle, N.J. Buck, J.W. Lavelle, **J.A. Resing**, and V. Ferrini (2014): Imaging of CO<sub>2</sub> bubble plumes above an erupting submarine volcano, NW Rota-1, Mariana Arc. *Geochem. Geophys. Geosyst.*, 15(11), doi: 10.1002/2014GC005543, 4325–4342.
71. Embley, R.W., S.G. Merle, E.T. Baker, K.H. Rubin, J.E. Lupton, **J.A. Resing**, R.P. Dziak, M.D. Lilley, W.W. Chadwick, Jr., T. Shank, R. Greene, S.L. Walker, J. Haxel, E. Olson, and T. Baumberger (2014): Eruptive modes and hiatus of volcanism at West Mata seamount, NE Lau basin: 1996–2012. *Geochem. Geophys. Geosyst.*, 15(10), doi: 10.1002/2014GC005387, 4093–4115.
70. Baumberger, T., M. D. Lilley, **J. A. Resing**, J. E. Lupton, E. T. Baker, D. A. Butterfield, E. J. Olson, and G. L. Früh-Green (2014), Understanding a submarine eruption through time series hydrothermal plume sampling of dissolved and particulate constituents: West Mata, 2008–2012, *Geochem. Geophys. Geosyst.*, 15, doi:10.1002/2014GC005460.
69. **Resing, J.**, and P. Barrett (2014): Fingerprinting the sources of iron to the oceans. *Nature*, 511, doi: 10.1038/nature13513, 164–165.
68. Grand, M.M., C.S. Buck, W.M. Landing, C.I. Measures, M. Hatta, W.T. Hiscock, M. Brown, **J.A. Resing**. (2014). Quantifying the impact of atmospheric deposition on the biogeochemistry of Fe and Al in the upper ocean: A decade of collaboration with the US CLIVAR-CO<sub>2</sub> Repeat Hydrography Program. *Oceanography* 27(1):62–65, <http://dx.doi.org/10.5670/oceanog.2014.08>.
67. Barrett, P. M., **J. A. Resing**, N. J. Buck, R. A. Feely, J. L. Bullister, C. S. Buck, and W. M. Landing (2014), Calcium carbonate dissolution in the upper 1000m of the eastern North Atlantic, *Global Biogeochem. Cycles*, 28, doi:10.1002/2013GB004619.
66. Buck, C.S., W.M. Landing, **J.A. Resing**, (2013). Pacific Ocean aerosols: Deposition and solubility of iron, aluminum, and other trace elements. *Mar. Chem.* 157, 117–130, doi: 10.1016/j.marchem.2013.09.005.
65. Slemons, L., B. Paul, **J.A. Resing** and J.W. Murray (2012) Particulate iron, aluminum, and manganese in the Pacific equatorial undercurrent and low latitude western boundary current sources. *Mar. Chem.*, 142–144, doi: 10.1016/j.marchem.2012.08.003, 54–67.
64. Barrett, P., **J.A. Resing**, N.J. Buck, C.S. Buck, W.M. Landing, and C.I. Measures (2012) The geochemistry of particulate matter in the North Atlantic: results from A16N. *Mar. Chem.*, 142–144, doi: 10.1016/j.marchem.2012.07.006, 41–53.
63. Leybourne, M.I., U. Schwarz-Schampera, C.E.J. de Ronde, E.T. Baker, K. Faure, S.L.

- Walker, D.A. Butterfield, **J. Resing**, J. Lupton, M.D. Hannington, G.J. Massoth, M. Clark, C. Timm, I.J. Graham, and I.C. Wright (2012): Submarine magmatic-hydrothermal systems at the Monowai Volcanic Centre, Kermadec Arc. *Econ. Geol.*, 107, doi: 10.2113/econgeo.107.8.1669, 1669–1694.
62. Lupton, J.E., R.J. Arculus, **J. Resing**, G.J. Massoth, R.R. Greene, L.J. Evans, and N. Buck (2012): Hydrothermal activity in the Northwest Lau Backarc Basin: Evidence from water-column measurements. *Geochem. Geophys. Geosyst.*, 13(1), Q0AF04, doi: 10.1029/2011GC003891.
61. **Resing, J. A.**, K.H. Rubin, R. Embley, J. Lupton, E. Baker, R. Dziak, T. Baumberger, M. Lilley, J. Huber, T.M. Shank, D. Butterfield, D. Clague, N. Keller, S. Merle, N.J. Buck, P. Michael, A. Soule, D. Caress, S. Walker, R. Davis, J. Cowen, A-L. Reysenbach, and H. Thomas, (2011): Active Submarine Eruption of Boninite at West Mata Volcano in the Extensional NE Lau Basin, *Nature Geosciences*, 10.1038/ngeo1275.
60. Baker, E.T., Lupton, J.E., J.A. **Resing**, S.L. Walker, T. Baumberger, M. Lilley, K. Rubin. (2011): Unique event plumes from a 2008 eruption on the Northeast Lau Spreading Center, *Geochem. Geophys. Geosyst.*, 12, Q0AF02, doi: 10.1029/2011GC003725, 21 pp.
59. Butterfield, D.A., K. Nakamura, B. Takano, M.D. Lilley, J.E. Lupton, **J.A. Resing**, and K.K. Roe (2011): High SO<sub>2</sub> flux, sulfur accumulation and gas fractionation at an erupting submarine volcano. *Geology*, 39, 803-806, doi:10.1130/G31901.1.
58. Baker, E.T., F. Martinez, **J.A. Resing**, S.L. Walker, N. Buck, and M.H. Edwards (2010): Hydrothermal cooling along the Eastern Lau Spreading Center: No evidence for discharge beyond the neovolcanic zone. *Geochem. Geophys. Geosyst.*, 11, Q08004, doi: 10.1029/2010GC003106.
57. Slemons, L.O., J.W. Murray, **J.A. Resing**, B. Paul, P. Dutrieux, (2010): Western Pacific coastal sources of iron, manganese and aluminum to the Equatorial Undercurrent, *Global Biogeochem. Cycles*, 24, GB3024, doi: 10.1029/2009GB003693, 16 pp.
56. Buck, C.S., W.M. Landing, **J.A. Resing**. (2010): Particle size and aerosol iron solubility: A high-resolution analysis of Atlantic aerosols, *Mar. Chem.*, doi:10.1016/j.marchem.2008.11.002.
55. Buck, C.S., W.M. Landing, **J.A. Resing**, C.I. Measures. (2010): The solubility and deposition of aerosol Fe and other trace elements in the North Atlantic Ocean: Observations from the A16N CLIVAR/CO<sub>2</sub> repeat hydrography section, *Mar. Chem.*, doi:10.1016
54. Chadwick, W., R. Embley, E. Baker, **J. Resing**, J. Lupton, K. Cashman, R. Dziak, V. Tunnicliffe, D. Butterfield, and Y. Tamura (2010): Spotlight 10: NW Rota-1 Seamount. *Oceanography*, 23, NO.1, 182- 183.
53. Ranville, M.A., G.A. Cutter, C.S. Buck W.M. Landing, L.S. Cutter, **J.A. Resing**, A.R. Flegal (2010) Aeolian contamination of Se and Ag in the North Pacific from Asian fossil fuel combustion, *Environmental Science and Technology*, 44, 1587-1593.
52. **Resing, J.A.**, R. W. Embley, K.H. Rubin, (2009): Eruptions in the NE Lau Basin, *MARGINS Newsletter*, No. 23, Fall 2009, 12-15.
51. **Resing, J.A.**, E.T. Baker, J.E. Lupton, S.L. Walker, D.A. Butterfield, G. J. Massoth, K. Nakamura, (2009): Chemistry of hydrothermal plumes above submarine volcanoes

- of the Mariana Arc, *Geochem. Geophys. Geosyst.*, 10, Q02009, doi:10.1029/2008GC002141.
50. Love, B. A., **J. A. Resing**, J. P. Cowen, J. E. Lupton, D. J. Fornari, T. M. Shank, and D. Biller (2008): Methane, manganese, and helium in hydrothermal plumes following volcanic eruptions on the East Pacific Rise near 9°50'N, *Geochem. Geophys. Geosyst.*, 9, Q06T01, doi:10.1029/2008GC002104.
  49. Baker, E.T., R.M. Haymon, **J.A. Resing**, S.M. White, S.L. Walker, K.C. Macdonald, and K. Nakamura (2008): High-resolution surveys along the hot spot-affected Galápagos Spreading Center: 1. Distribution of hydrothermal activity. *Geochem. Geophys. Geosyst.*, 9(9), doi: Q09003, doi:10.1029/2008GC002028.
  48. White, S. M., J. D. Meyer, R. M. Haymon, K. C. Macdonald, E. T. Baker, and J. A. Resing (2008): High-resolution surveys along the hot spot-affected Galápagos Spreading Center: 2. Influence of magma supply on volcanic morphology, *Geochem. Geophys. Geosyst.*, 9, Q09004, doi:10.1029/2008GC002036.
  47. Haymon, R., S. M. White, E. T. Baker, P. G. Anderson, K. C. Macdonald, and **J. A. Resing** (2008): High-resolution surveys along the hot spot-affected Galápagos Spreading Center: 3. Black smoker discoveries and the implications for geological controls on hydrothermal activity, *Geochem. Geophys. Geosyst.*, doi:10.1029/2008GC002114.
  46. Walker, S.L., E.T. Baker, **J.A. Resing**, W.W. Chadwick, Jr., G.T. Lebon, J.E. Lupton, and S.G. Merle (2008): Eruption-fed particle plumes and volcanoclastic deposits at a submarine volcano: NW Rota-1, Mariana arc. *J. Geophys. Res.*, 113, B08S11, doi: 10.1029/2007JB005441.
  45. Baker, E.T., R.W. Embley, S.L. Walker, **J.A. Resing**, C.E.J. de Ronde, G.J. Massoth, and K.-I. Nakamura (2008): Hydrothermal activity and volcano distributions along the Mariana Arc. *J. Geophys. Res.* 113, B08S09, doi: 10.1029/2007JB005423.
  44. Massoth, G.J., E.T. Baker, T. Worthington, J.E. Lupton, C. de Ronde, R.A. Arculus, S.L. Walker, K. Nakamura, J.-I. Ishibashi, P. Stoffers, **J.A. Resing**, R. Greene, and G. Lebon (2007): Multiple hydrothermal sources along the south Tonga arc and Valu Fa Ridge. *Geochem. Geophys. Geosyst.*, 8(11), Q11008, doi:10.1029/2007GC001675.
  43. Embley, R.W., E.T. Baker, D.A. Butterfield, W.W. Chadwick, Jr., J.E. Lupton, **J.A. Resing**, C.E. de Ronde, C., Nakamura, K., Tunnicliffe, V., Dower, J., Merle, S.G., (2007): Exploring the Submarine Ring of Fire: Mariana Arc - Western Pacific, *Oceanography*, 20, 68-79.
  42. Haymon, R.M., E.T. Baker, **J.A. Resing**, S.M. White, K.C. Macdonald, K.C. and the GalAPAGoS Team, (2007): Hunting for Hydrothermal Vents Along the Galapagos Spreading Center, *Oceanography* 20, 100-107.
  41. **Resing, J.A.**, G. Lebon, E. T. Baker, J. E. Lupton, R. W. Embley, G. J. Massoth, W.W. Chadwick, Jr., C.E.J. de Ronde (2007): Venting of acid-sulfate fluids in a high-sulfidation setting at NW Rota-1 submarine volcano on the Mariana Arc, *Econ. Geology*, 102, no.6, 1047-1061.
  40. de Ronde, C.E.J., E.T. Baker, G.J. Massoth, J.E. Lupton, I.C. Wright, R.J. Sparks, S.C. Bannister, M.E. Reyners, S.L. Walker, R.R. Greene, J. Ishibashi, K. Faure, **J.A. Resing**, and G.T. Lebon (2007): Submarine hydrothermal activity along the mid-Kermadec

- Arc, New Zealand: Large-scale effects on venting. *Geochem. Geophys. Geosyst.*, 8(Q07007), doi: 10.1029/2006GC001495.
39. German, C.R., E.T. Baker, D.P. Connelly, J.E. Lupton, **J. Resing**, R.D. Prien, S.L. Walker, H.N. Edmonds, and C.H. Langmuir (2006): Hydrothermal exploration of the Fonualei Rift and Spreading Center and the North East Lau Spreading Center. *Geochem. Geophys. Geosyst.*, 7, Q11022, doi: 10.1029/2006GC001324
  38. Lupton, J., D. Butterfield, M. Lilley, L. Evans, K.-I. Nakamura, W. Chadwick, Jr., **J. Resing**, R. Embley, E. Olson, G. Proskurowski, E. Baker, C. de Ronde, K. Roe, R. Greene, G. Lebon, and C. Young (2006): Submarine venting of liquid carbon dioxide on a Mariana Arc volcano. *Geochem. Geophys. Geosyst.*, 7, Q08007, doi: 10.1029/2005GC001152.
  37. Baker, E.T., **J.A. Resing**, S.L. Walker, F. Martinez, B. Taylor, and K.-I. Nakamura (2006): Abundant hydrothermal venting along melt-rich and melt-free ridge segments in the Lau back-arc basin. *Geophys. Res. Lett.*, 33, L07308, doi: 10.1029/2005GL025283.
  36. Martinez, F., B. Taylor, E. Baker, **J. Resing**, S. Walker. (2006): Opposing trends in crustal thickness and spreading rate along the back-arc Eastern Lau Spreading Center: Implications for controls on ridge morphology, faulting, and hydrothermal activity, *Earth Planet. Sci. Lett.* 245, 655–672, doi:10.1016/j.epsl.2006.03.049.
  35. Buck, C. S., W. M. Landing, **J.A. Resing**, G. T. Lebon. (2006): Aerosol Iron and Aluminum Solubility in the Northwest Pacific Ocean: Results from the 2002 IOC Cruise. *Geochem. Geophys. Geosyst.* 7, No. 4, doi:10.1029/2005GC000977.
  34. Embley, R.W., Chadwick, W.W., Baker, E.T. Butterfield, D.A., **Resing, J.A.** de Ronde, C.E. Tunnicliffe, V., Lupton, J.E., Juniper S.K., Rubin, K.H., Stern, R.J., Lebon, G.T., Nakamura, K., Merle, S.G., Hein, J.R., Wiens, D.A., Tamura, Y. (2006): Long-Term Eruptive Activity at a Submarine Arc Volcano, *Nature*, doi:10.1038/nature04762.
  33. Aguilar-Islas, A. M., **J.A. Resing**, K. W. Bruland. 2006: Catalytically enhanced spectrophotometric determination of manganese in seawater by flow-injection analysis with a commercially available resin for on-line preconcentration. *Limnol. Oceanogr.: Methods*, 4, 105–113.
  32. Dziak, R., J. Cowen, E. Baker, D. Bohnenstiehl, B. Chadwick, **J. Resing**, R. Embley (2006): Detecting volcanic events in the northeast Pacific. *EOS, Trans. Am. Geophys. Un.*, **87 (4)** 37,42.
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  30. Gharib, J. J., F. J. Sansone, **J. A. Resing**, E. T. Baker, J. E. Lupton, G. J. Massoth. (2005): Methane dynamics in hydrothermal plumes over a superfast spreading center: East Pacific Rise 28-32S *Journal Geophysical Research*, 110(B10), B10101, doi: 10.1029/2004JB003531.

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27. Embley, R.W., E. T. Baker, W. W. Chadwick, Jr., J. E. Lupton, **J. A. Resing**, G. L. Massoth, K. Nakamura (2004): Explorations of Mariana Arc Volcanoes Reveal New Hydrothermal Systems, *EOS, Trans. AM. Geophys. Un.* 85, no. 4, 37,39.
26. Baker, E.T., R.P. Lowell, **J.A. Resing**, R.A. Feely, R.W. Embley, G.J. Massoth, and S.L. Walker (2004): Decay of hydrothermal output following the 1998 seafloor eruption at Axial Volcano: Observations and models, *J. Geophys. Res.* 109, B01205, doi:10.1029/2003JB002618.
25. **Resing, J.A.** and F.J. Sansone (2002): The chemistry of lava-seawater interactions II: The elemental signature. *Geochim. Cosmochim. Acta* 66, no.11, 1925-1941
24. Sansone, F.J., C.R. Benitez-Nelson, **J.A. Resing**, E.H. DeCarlo, S.M. Vink, J.A. Heath, and B.J. Huebert (2002): Geochemistry of atmospheric aerosols generated from lava-seawater interactions. *Geophys. Res. Lett.* 29 (9), 10.1029/2001GL013882.
23. Baker, E.T., R.N. Hey, J.E. Lupton, **J.A. Resing**, R.A. Feely, J.J. Gharib, G.J. Massoth, F.J. Sansone, M. Kleinrock, F. Martinez, D.F. Naar, C. Rodrigo, D. Bohnenstiehl, and D. Pardee (2002): Hydrothermal venting along Earth's fastest spreading center: East Pacific Rise, 27.5°–32.3°S. *J. Geophys. Res.* 107 (B7), 10.1029/2001JB000651.
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19. **Resing, J.A.**, F.J. Sansone (1999): The chemistry of lava-seawater interactions: The generation of acidity. *Geochim. Cosmochim. Acta.*, 63, 2183-2198.
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13. **Resing, J.A.**, F.J. Sansone (1996): Al and pH anomalies in the Manus Basin: Reappraised: Comments on the paper by T. Gamo et al., "Hydrothermal plumes in the eastern Manus Basin, Bismarck Sea: CH<sub>4</sub>, Mn, Al and pH anomalies". *Deep Sea Res. I*, 43, 1867-1872.
12. Mottl, M.J., F.J. Sansone, C.G. Wheat, **J.A. Resing**, E. Baker, and J.E. Lupton. (1995): Hydrothermal plumes along the East Pacific Rise, 8°40' to 11°50'N: Dissolved manganese and methane. *Geochim. Cosmochim. Acta*. 59, 4147-4165.
11. Sansone, F.J., **J.A. Resing** (1995): Hydrography and geochemistry of sea-surface hydrothermal plumes resulting from Hawaiian coastal volcanism. *J. Geophys. Res.*, 100, no. C7, 13555-13569.
10. Measures, C.I., J.C. Yuan, **J. Resing** (1995): Determination of iron in seawater by flow injection analysis using in-line preconcentration and spectrophotometric detection. *Mar. Chem.*, 50, 3-12.
9. Landing, W.M., G.A. Cutter, J.A. Dalziel, A.R. Flegal, R.T. Powell, D. Schmidt, A. Shiller, P. Statham, S. Westurlund, **J. Resing**. (1995): Analytical intercomparison results from the 1990 Intergovernmental Oceanographic Commission Open-Ocean Baseline Survey for trace metals: Atlantic Ocean. *Mar. Chem.*, 49, 253-265.
8. **Resing, J.A.**, C.I. Measures (1994): Fluorometric determination of Al in seawater by flow injection analysis with in-line preconcentration. *Anal. Chem.*, 66, no. 22, 4105-4111.
7. Baker, E.T., R.A. Feely, M.J. Mottl, F.J. Sansone, C.G. Wheat, **J.A. Resing**, J.E. Lupton (1994): Hydrothermal plumes along the East Pacific Rise, 8°40' to 11°50' N: Plume distribution and relationship to the apparent magmatic budget. *Ear. Planet. Sci. Lett.*, 128, 1-17.
6. Karl, D.M., **J. Resing** (1993): Hydrogen peroxide in the Palmer-LTER region: III. Photochemical interactions with dissolved organic matter. *Antarc. J. U.S.*, 28, no. 5, 231-234.
5. **Resing, J.**, G. Tien, R. Letelier, D. Karl, D. Jones (1993): Hydrogen peroxide in the Palmer-LTER region: II. Water column distributions. *Antarc. J. U.S.*, 28, no. 5, 227-229.
4. Karl, D.M., **J. Resing**, G. Tien, R. Letelier, D. Jones (1993): Hydrogen peroxide in the Palmer-LTER region: I. An introduction. *Antarc. J. U.S.*, 28, no. 5, 225-226.
3. Lupton, J.E., E.T. Baker, M.J. Mottl, F.J. Sansone, C.G. Wheat, **J.A. Resing**, G.J. Massoth, C.I. Measures, R.A. Feely (1993): Chemical and physical diversity of hydrothermal plumes along the East Pacific Rise, 8° 45'N to 11°50'N. *Geophys. Res. Lett.*, 20, no. 24: 2913-2916.

2. **Resing, J.A.**, M.J. Mottl (1992): Determination of manganese in seawater by flow injection analysis using online preconcentration and spectrophotometric detection. *Anal. Chem.*, 64, 2682-2687.
1. Sansone, F.J., **J.A. Resing**, G.W. Tribble, P.N. Sedwick, K.M. Kelly, K. Hon (1991): Lava-seawater interactions at shallow-water submarine lava flows. *Geophys. Res. Lett.* 18, no. 9: 1731-1734.

### OTHER PUBLICATIONS

- Mathis, J.T., R.A. Feely, A. Sutton, C. Carlson, F. Chai, F. Chavez, M. Church, C. Cosca, M. Ishii, C. Mordy, A. Murata, **J. Resing**, P. Strutton, T. Takahashi, and R. Wanninkhof (2014): [TPOS Whitepaper #6. Tropical Pacific biogeochemistry: Status, implementation and gaps.](#) In Proceedings of the Tropical Pacific Observing System 2020 Workshop, A Future Sustained Tropical Pacific Ocean Observing System for Research and Forecasting, La Jolla, CA, 27–30 January 2014.
- Deitz, V.R., J.L. Lakshmanan, S. Selwyn, and **J. A. Resing**. 1982. The Dust Attrition of Granular Carbon Adsorbents: Test Procedure and Typical Results. Naval Research Laboratory Memorandum Report #5074.

### DRAFT PUBLICATIONS WITHOUT TIME-LINE

- Baumberger, T., M.D. Lilley, J.E. Lupton, **J.A. Resing**, E.T. Baker, D.A. Butterfield, E.J. Olson, and G.L. Früh-Green (2015): Real time H<sub>2</sub> and CH<sub>4</sub> detection in a hydrothermal plume from a 2008 submarine eruption on the Northeast Lau Spreading Center. [draft available; submission date uncertain].
- Lin, H-T, J. P. Cowen, D. A. Butterfield, E. T. Baker, J.A. Resing, J. A. Huber. (2105) Biogeochemistry of hydrothermal vents at NE Lau Basin: Dissolved and particulate organic carbon and total dissolved nitrogen, [draft available; submission date uncertain].
- Leybourne, M., de Ronde, C., Wysoczanski, R., Walker, S. L., Resing, J., Timm, C., Faure, K, Baker E. T., Caratori Tontini, F., Lupton, J., Greene, R., Hergt, J. M., Todd, E., Wright, I.C.. (2105-inactive) The absence of hydrothermal venting in the Havre Trough: implications for restricted magmatic production in an incipiently spreading back arc basin, hydrothermal plume from a 2008 submarine eruption on the Northeast Lau Spreading Center, [draft available; submission date uncertain].
- Resing, J.A.**, E.T. Baker, R.W. Embley, J. Lupton, M. Lilley, K. Rubin, N. Buck. (2105-inactive) The geochemical signature of a large Submarine Volcano in the NE Lau Basin: dome building and magmatic gas output, [draft available; submission date uncertain].

## CURRENT FUNDING

- Title:** Quantifying global ocean hydrothermal iron inputs. Royal Society of London. Alesandro Tagliabue (University of Liverpool) and Joseph Resing.
- Title:** Hydrothermal Exploration in the Mariana Back-arc: Understanding the physical, chemical, and geological forces that shape biodiversity. Schmidt Ocean Institute. J. Resing, W. Chadwick (Oregon State University), E. Baker (UW), D. Butterfield (UW), R. Embley (PMEL), J. Huber (Marine Biological Laboratory), J. Lupton (PMEL), V. Tunnicliffe (University of Victoria).
- Title:** Collaborative Research: Trace Metal Deposition and Cycling In The North Atlantic On The 2013 CLIVAR/Repeat Hydrography A16N Expedition. NSF-OCE-Chemical Oceanography. NSF-OCE-Chemical Oceanography: 03/01/13-03/31/16. J. Resing and W. Landing (Florida State University).
- Title:** Collaborative Research: U.S. GEOTRACES Pacific Section – Shipboard Al, Mn and Fe. NSF-OCE-Chemical Oceanography: 9/1/12-8/30/15. J. Resing and P. Sedwick (Old Dominion University).

## PAST FUNDING

- Title:** Collaborative Research: Dynamics of eruptive plumes above a submarine arc volcano, NSF-OCE- Marine Geology and Geophysics: 10/1/12-9/30/14. W Chadwick (Oregon State University) and J. Resing.
- Title:** Exploration of Active Volcanism and Hydrothermal Systems in the NE Lau Basin, NOAA Ocean Exploration and Research, 2/01/10- 1/31/13, R. Embley (NOAA-PMEL), J. Resing, E. Baker (NOAA-PMEL).
- Title:** Memorandum of Understanding and Implementing Agreement between PMEL and Nautilus Minerals to provide Remotely Operated Vehicle Support for 2012 Lau Basin cruise (8/2012).
- Title:** Collaborative Research: Strombolian eruptions, magma degassing, and hydrothermal discharge at an active submarine arc volcano. NSF-OCE- Marine Geology and Geophysics: 02/09-01/13, W. Chadwick, J. Resing, D. Butterfield, M.Lilley.
- Title:** Collaborative Research: A Submarine Eruption on the North East Lau Spreading Center, a RAPID Response Effort, NSF-OCE-Marine Geology and Geophysics, Ridge 2000, 4/09-4/12. J. Resing, W. Lange (Woods Hole Oceanographic Institution), C. Moyer (Western Washington University), D. Clague (Monterey Bay Aquarium Research Institute), D. Caress (MBARI), T. Shank (WHOI).
- Title:** Collaborative Research: Rapid Response to a Submarine Eruption at W. Mata Volcano: NSF-OCE Marine Geology and Geophysics, Margins Program, Margins 4/09-4/10. J. Resing, K.Rubin (University of Hawaii), J. Cowen (UH), J. Huber (Marine Biological Laboratory).

- Title:** Collaborative Research: Global Ocean Survey of Dissolved Iron and Aluminum and Aerosol Iron and Aluminum Solubility Supporting the CLIVAR Repeat Hydrography Project (2007-2009). NSF-OCE-Chemical Oceanography, 03/07 - 02/13 W. Landing (Florida State University) J. Resing, C. Measures (University of Hawaii).
- Title:** Collaborative Research: Investigating the Distribution of Hydrothermal Activity and its Geologic and Geophysical Controls at the Lau Integrated Studies Site. NSF-OCE Marine Geology and Geophysics, Ridge 2000, 09/07-8/11, F. Martinez (University of Hawaii), J. Resing, E. Baker (NOAA-PMEL).
- Title:** Enhancing Exploration Efficiency with Specific Application to Exploration of the Galapagos Spreading Center NOAA-Ocean Exploration, 04/05-12/11.
- Title:** Collaborative Research: Hydrothermal System Response to Magma Supply and Crustal Thickness Gradients Along the Galapagos Spreading Center, 89.5-94W. NSF-OCE Marine Geology and Geophysics and NOAA Ocean Exploration, 05/04-05/08, R. Haymon (Lead PI; UCSB), J. Resing, K. MacDonald (UCSB), S. White (USC), E. Baker (NOAA-PMEL).
- Title:** Submarine Ring of Fire 2005-2007: Exploring Western Pacific Arc Volcanoes NOAA Ocean Exploration, 03/05-02/08, R. Embley (Lead PI; NOAA-PMEL) , E. Baker, J. Lupton, D. Butterfield, J. Resing, J. Baross, M. Lilley, W. Chadwick.
- Title:** Iron in the Equatorial Undercurrent: Data and Models. NSF-OCE-Chemical Oceanography, 09/04-08/08, James Murray (Lead PI), J. Resing.
- Title:** Exploring the Submarine Ring of Fire NOAA Ocean Exploration, 04/02 - 03/05, Collaborative with: R. Embley (Lead PI; NOAA-PMEL), E. Baker, W. Lavelle (NOAA-PMEL), J. Lupton, D. Butterfield, J. Resing, J. Baross, M. Lilley, W. Chadwick, R. Dziak (OSU) C. Moyer (WWU), M. Tivey (WHOI).
- Title:** Endeavour Rapid Response. NOAA-Ocean Exploration, 03/05-09/05, E. Baker (Lead PI; NOAA-PMEL), J. Resing, W. Chadwick, R. Embley.
- Title:** Collaborative Research: Global ocean survey of dissolved iron and aluminum and aerosol iron and aluminum solubility supporting the Repeat Hydrography \ (CO<sub>2</sub>\) project. NSF-OCE Chemical Oceanography, 02/03-02-06 W. Landing (Lead PI; FSU), J. Resing, C. Measures (UH).
- Title:** Using Suspended Particulate Matter in Hydrothermal Plumes in the Lau Basin to Better Identify Hydrothermal Source Variability. NSF-OCE Marine Geology and Geophysics, Ridge 2000, 08/04-07/07.
- Title:** Collaborative Research: Investigating the interrelationships between crustal structure, volcanism, and hydrothermal activity along the backarc East Lau Spreading Center. NSF-OCE Marine Geology and Geophysics, Ridge 2000, 09/03-08/06, F. Martinez (Lead PI; UH), J. Resing, B. Taylor, E. Baker.

## FIELD EXPERIENCE

- 2015      Hydrothermal Hunt In the Marianas, SROF 2015: 27 days Falkor, Chief Scientist  
 2014      Fe-Man, SROF 2014: Mariana Arc, 23 days, Roger Revelle

2013 Geotrace Pacific Section Peru to Tahiti, 57 days, T.G. Thompson  
 2013 CLIVAR-A16N Trace-Metals: North Atlantic, 20 days, R.H. Brown  
 2012 Submarine Ring of Fire: The NE Lau Basin, 17 days, Roger Revelle, Chief Scientist  
 2010 Exploration of NE Lau Basin, 12 Days, Kila Moana, Chief Scientist  
 2010 Strombolian eruptions-NW Rota, 17days, Kila Moana  
 2009 NE Lau Response Cruise, 8 days, T.G. Thompson, Chief Scientist.  
 2008 Exploration of the NE Lau Basin, 16 days, T.G. Thompson.  
 2008 Controls on Hydrothermal Activity at the Lau ISS, 35 days, RV Kila Moana  
 2007 Detailed Exploration of Brothers Seamount, 17 days, MV Sonne  
 2006 Fe in the Equatorial Under Current, 28 days, RV Kila Moana  
 2006 Submarine Ring of Fire, 26 days, RV Melville  
 2005 Galapagos Spreading Center, 39 Days, T.G. Thompson.  
 2005 Endeavour Response, 6 Days RV T.G. Thompson.  
 2004 Lau Basin Hydrothermal survey. 35 Days RV Kila Moana  
 2003 The Submarine Ring of Fire: Mariana Arc. 25 days RV T.G. Thompson.  
 2002 Exploration of Explorer Ridge. Two legs Totaling 25 days. RV T.G. Thompson.  
 2001 Juan de Fuca and Axial volcano hydrothermal emissions. 17 days RV Wecoma.  
 2001 Astoria Canyon, Ocean Exploration-Lewis and Clarke Legacy, 10 days R.H. Brown.  
 2001 Gorda Ridge Event detection response cruise, RV New Horizon, 7 days.  
 2000 Juan de Fuca and Axial volcano hydrothermal emissions. 17 days R.H. Brown.  
 1999 Juan de Fuca and Axial volcano hydrothermal emissions. 17 days RV Wecoma.  
 1998 Loihi, seismic event follow up cruise. 7 days: RV Kaimikai O'Kanaloa.  
 1998 Axial Volcano eruption, response follow up. 18 days NOAA Ship R.H. Brown.  
 1998 28-32S EPR hydrothermal survey of earth's fastest spreading center. 41 days RV Melville.  
 1998 Axial Volcano eruption, Rapid Response Cruise. 7 days RV Wecoma.  
 1997 Loihi seismic event follow up cruise. 7 days: RV Kaimikai O'Kanaloa.  
 1996 Loihi seismic event rapid response cruise. 7 days: RV Kaimikai O'Kanaloa.  
 1990-95 The interaction of molten lava with seawater, 20 1-3 day field trips on the Island of Hawaii.  
 1993 Vents cruise, leg III. 12 days: NOAA ship Discoverer.  
 1992 Loihi, hydrothermal plume survey, 7 days: RV Thomas G. Thompson.  
 1992 Microbial dynamics of the Antarctic spring bloom. 25 days: RV Polar Duke.  
 1991 Hydrothermal plume survey, East Pacific Rise from 9<sup>0</sup>-11<sup>0</sup> N. 30 days: RV New Horizon.  
 1989 Hawaii ocean time series. 5 days: RV Kaimalino.  
 1989 Carbonate chemistry of Penguin Bank Hawaii. 5 days: RV Thomas Cromwell.  
 1988 Chemistry of hydrothermal venting, Juan de Fuca ridge. 30 days: RV Atlantis II/Alvin.  
 1986 Coral collection and recruitment studies, Great Barrier Reef, Australia: 20 field days.

## STUDENTS

- 2014- **Thesis advisor** Susanna Michael, University of Washington  
2009- **Thesis advisor** Pamela Barrett, University of Washington  
2010 **Mentor:** JISAO Summer Intern, Cole Perkinson, Reed College  
2006-09 **Dissertation committee member**, Lia Osiander, University of Washington  
2007 **Mentor:** Hollings Fellow, Dondra Biller (UCSD)  
2004 **Mentor:** Undergraduate field intern (Jamie Smith, Depaul University)  
2003 **Mentor:** Undergraduate field intern (Kelly Kaiser, Depaul University)  
2002 **Mentor (with Ed Baker):** Undergraduate field intern Marine Advanced Technology Education (MATE) Program  
**Mentor:** Undergraduate field interns (Angela Opiola, Depaul University and Andrea Toth, DePaul University).  
2001 **Mentor:** Undergraduate field intern (Angela Opiola, Depaul University)  
2000 **Master Thesis Committee Member**, James Jamshid Gharib, University of Hawaii  
**Sponsor:** Teacher for Teacher at Sea Program (together with E. Baker)  
**Sponsor:** Midshipman summer intern (together with E. Baker)  
1999 **Sponsor:** Teacher at Sea Program (together with E. Baker)  
**Sponsor:** Midshipman summer internship (2 students) (together with E. Baker)  
1998 **Sponsor:** Teacher at Sea Program (together with E. Baker)  
**Sponsor:** Midshipman summer internship (2 students) (together with E. Baker)

## SUPERVISORY

- 2005-present Mr. Nathan Buck- Vents and trace element Chemistry  
2009-present Ms. Sylvia Musielewicz- Carbon Chemist  
2009-2013 Ms. Cynthia Peacock- Carbon Chemist  
2009-2011 Ms. Nancy Williams - Carbon Chemist  
1999-2006 Mr. Geoff Lebon- Vents and trace element Chemistry

## OUT REACH AND OTHER PRESENTATIONS

- 2016 Presentation to multiple Science Classes, Homewood-Flossmoor HS, Flossmoor, IL.  
2016 Presentation to AP-Environmental Science Class, York HS, Elmhurst, IL.  
2015 One-NOAA Science Seminars, Washington DC  
2015 Presentation to LEGOS Science team, Toulouse, France  
2014 PMEL Five Year Review- Earth Ocean Interactions Program  
2013 Presentation to visiting class from Eastern Washington University

- 2012 Presentation to the Senior Research Council; NOAA-Office of Ocean Atmosphere and Research, Washington DC
- 2012 Presentation Hyattsville Middle School, Hyattsville, MD
- 2012 Presentation, University Park Elementary School, Hyattsville, MD
- 2012 Presentation to visiting class from Eastern Washington University
- 2011 Video Footage and interpretation of the West Mata eruption provided to multiple museums and documentary film makers.
- 2011 Presentation to visiting class from Eastern Washington University
- 2010 Brief for Monica Medina, Principal Deputy Undersecretary for Oceans and Atmosphere, NOAA
- 2010 Career Day talk, Kellog Middle School, Lake Forest Park, WA
- 2010 Lecture Western Washington University, Bellingham, WA
- 2010 "Scoop on Cool Careers" event (W. Mata Video), Redmond, WA
- 2010 Cruise Blog <http://laueruptions.blogspot.com/>
- 2010 W. Mata Lecture to Students from Central Washington University.
- 2010 Pacific Science, Husky Weekend (W. Mata)
- 2009 Fox and Friends Interview, Seattle, WA
- 2009 Press Conference at AGU Fall Meeting, San Francisco, CA
- 2009 Interviews with CNN International, AP International, Discovery Channel Online, BBC Radio, and others.
- 2009 Lecture, Old Dominion University, Norfolk, VA
- 2009 Lecture St. Anselm's Abbey High School, Washington D.C.
- 2009 Cruise Blog <http://laueruptions.blogspot.com/>
- 2008 Presentation Brookside Elementary school, Lake Forest Park, WA

### **WORKSHOPS SINCE 2010**

- 2015 Schmidt Ocean Institute (SOI) Research Planning Workshop, Maui, HA, Aug 23-27.
- 2015 Geotraces Pacific Section Synthesis Workshop, Santa Catalina Island, CA, Nov. 8-13.
- 2014 NOAA-Korea JPA Meeting with Chanmin Yoo, Honolulu HA, Aug. 4-5.
- 2104 NOAA-Korea JPA, Blue Oceans project, Honolulu HA, Aug. 4-5.
- 2013 NOAA Ocean Exploration and Research Symposium, Washington D.C., Feb 20.
- 2013 Vents PI Meeting, Newport OR, April 16-19.
- 2013 Geotraces Pacific Section Planning Meeting, Woods Hole MA, April 24-26.
- 2011 GEOTRACES Ocean Particles-Modeling and Data, Barcelona Spain Nov. 14-17.
- 2011 MTMNM Science Exploration and Research, Kona HI, September 18-19.
- 2011 GEOTRACES Pacific Section, San Diego, CA, September 12-14
- 2011 WUN Workshop on Ocean Acidification, Friday Harbor, WA August 28-30
- 2011 GEOPRISMS Implementation, Austin TX, January 5-7
- 2010 2010 R2K Community Meeting, Portland OR, October 29-31

### **1ST AUTHORED ABSTRACTS**

- Resing, J. A.,** Chadwick, W., Hydrothermal Hunt In the Mariana Team.(2016): Transport of Trace Fe from the Mariana Arc and Hydrothermal Exploration of the Mariana Back Arc Basin, CT24A-0158, 2016 Ocean Sciences Meeting, New Orleans, LA.
- Resing, J. A.,** Sedwick, P. N., Sohst, B. M., Jenkins, W. J., Tagliabue, A., German, C. R., Moffett, J. (2015) Transport of Hydrothermal Iron, Manganese, and Aluminum Across the Eastern South Pacific Ocean during the U.S. Geotraces Eastern Pacific Zonal Transect Cruise, Abstract ID: 27653. (oral). 2015 Aquatic Sciences Meeting, Granada, Spain
- Resing, J. A.,** Sedwick, P., Sohst, B. (2014). GEOTRACES EASTERN PACIFIC ZONAL TRANSECT: SHIPBOARD IRON, MANGANESE, AND ALUMINUM, Abstract: 130. 2014 Ocean Sciences Meeting, Honolulu, HA.
- Resing, J A,** Embley, R W, (2012) Preliminary results from Submarine Ring of Fire 2012 - NE Lau: First explorations of hydrothermally active volcanoes across the supra-subduction zone and a return to the West Mata eruption site, 2012 Fall Meeting, Am. Geophys Un. Abstract: OS51D-1896
- Resing, J A,** Baker, E T Lupton, J E Lilley, M D Rubin, K H Buck, N J (2011) The Chemistry of Hydrothermal venting at a Volcano "O", a large Submarine Volcano in the NE Lau Basin: Abstract V53D-2652 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 December.
- Resing, J A** and Embley, R W. 2009. Active Eruptions in the NE Lau Basin, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract V43I-01.
- Resing, J A,** Baker, E, Martinez, F, Buck, N, Walker, S, Seewald, J, Proskurowski, G, Lupton, J, Wheat, G. 2008. Hydrothermal Plume Geochemistry along the East Lau Spreading Center, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract V53D-07.
- Resing, J,** Baker, E, Lebon, G, Walker, S, Haymon, R, Nakamura, K Lupton, J. 2006. The Chemistry of Hydrothermal Plumes Along the Galapagos Spreading Center, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V14A-08. **INVITED.**
- Resing, J.,** E. Baker, F. Martinez, G. Lebon, S. Walker, G. Massoth, B. Taylor, J. Lupton, R. Greene, K. Nakamura. 2004. Characteristics of Hydrothermal Activity in the Lau Back Arc Basin, *Eos Trans. AGU*, Fall 2004 Meeting.
- Resing, J.,** G. Lebon, E. Baker, J. Lupton, K. Nakamura, G. Massoth, R. Embley. 2003. Geochemical Characterization of Hydrothermal Plumes Above Hydrothermally Active Volcanos on the Mariana Arc, *Eos Trans. AGU*, Fall 2003 Meeting
- Resing, J.,** G. Wheat, E. Baker, 2003, An integrated study approach to Time Critical Studies, White paper for Ridge 2000 Community Meeting, Boulder, CO, November 6-8, 2003.
- Resing, J.,** G. Wheat, H. Jannasch, J. Plant, E. Baker, W. Lavelle, (2002) Long-term trace element monitoring at Axial Volcano using Osmotic samplers in hydrothermal Plumes. *EOS-Trans AGU*, 83, Ocean Science meeting Abstract OS31F-88.
- Resing, J.,** G. Lebon, E. Baker, S. Walker, K. Nakamura, B. Silvers. 2002. Using Hydrothermal Plumes and Their Chemical Composition to Identify and Understand Hydrothermal Activity at Explorer Ridge. *Eos Trans. AGU*, 83, (47), Fall Meeting Suppl., Abstract T11C-1265.

- Resing, J., R. Feely, E. Baker, J. Lupton.** 2000. The Evolution of the Water-Column-Chemical Signature of the 1998 Axial Eruption at Axial Volcano, Juan de Fuca Ridge. *EOS Trans. AGU*, 80, no. 49, p.OS5: **INVITED**.
- Resing, J., R. Feely, E. Baker, G. Lebon, G. Massoth, R. Collier.** 1998. The Water-Column-Chemical Signature of the 1998 Axial Eruption: Axial Volcano, Juan de Fuca Ridge. *EOS Trans. AGU*, 79, no. 45, p. F831-832.
- Resing, J., R. Feely, G. Massoth, E. Baker, J. Lupton.** 1998. The chemical signature of hydrothermal plume waters along 28°-32° S. East Pacific Rise. *EOS Trans. AGU*, 79, no. 45, p. F922.
- Resing, J.A., C.G. Wheat, R.A. Feely, F.J. Sansone, E.T. Baker, M.J. Mottl.** 1998. The chemistry of hydrothermal plume along 9-12N EPR. RIDGE Workshop on the Results of Field Studies along the East Pacific Rise, 9 - 10N, Santa Barbara, CA, September 1998.
- Resing, J.A., and F.J. Sansone,** 1997. The generation of acidity from lava seawater interactions. *EOS Trans. AGU*, 78, no. 46, p F804-F805.
- Resing, J.A., F.J. Sansone, X.Y. Wen, B. Midson.** 1996. The geochemical signature of fluids issuing from Loihi Seamount after an intense seismic event. *EOS Trans. AGU*, 77, no. 46, p. F398.
- Resing, J.A., F. Sansone.** 1995. Lava-seawater experiments and the unique chemical signature of lava-seawater interactions. *EOS Trans. AGU*, 76, no. 46, p. F709.
- Resing, J.A., F. Sansone.** Chemical signatures of submarine eruptions. Gordon Research Conference, June, 1995.
- Resing J.A. and F.J. Sansone.** 1994. The chemical signature of basalt-seawater interactions. *EOS Trans. AGU*, 75, no.44, p. 706.
- Resing J.A., C.I. Measures.** 1994. Application of micro-column techniques to trace element determination in flow injection analysis. Winter Conference on Flow Injection Analysis (WC-FIA 94), San Diego, Ca., Jan. 1994.
- Resing, J.A., F.J. Sansone, C.G. Wheat, G.J. Massoth, E. Baker.** 1993. The water column signature of the 1993 Coaxial eruption site on the Juan de Fuca Ridge. *EOS Trans. AGU*, 74, no. 43, p. 620.
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