

Peer-reviewed Publications

- (132) Madison K. Flint*, Jonathan B. Martin, Tatiana I. Summerall, Adrian Barry-Sosa, Brent C. Christner, in press, Nitrous Oxide Processing in Carbonate Karst Aquifers, *J. Hydro*
- (131) Martin, J.B., Pain, A.J., Martin, E.E., Rahman, S., Akerman, P., 2020, Comparisons of nutrients exported from Greenlandic glacial and deglaciated watersheds, *Global Biogeochem. Cycles* 34, e2020GB006661.<https://doi.org/10.1029/2020GB006661>.
- (130) Ward, Nicholas D., Bianchi, Thomas S., Martin, Jonathan B., Quintero, Carlos J., Sawakuchi, Henrique O., Cohen, Matthew, 2020, Pathways for methane emissions and oxidation that influence the net carbon balance of a subtropical cypress swamp., *Front. Earth Sci.* 8; 573357. Doi:10.3389/feart.2020.573357.
- (129) Valle-Levinson, A., Martin, J.B., 2020, Solar activity and lunar precessions influence extreme sea-level variability in the U.S. Atlantic and Gulf of Mexico coasts, *Geophysical Research Letters*, 47, e2020GL090024. <https://doi.org/10.1029/2020GL090024>.
- (128) Pain, A.J., Martin, J.B., Martin, E.E., Rahman, S., Ackermann, P. 2020, Differences in the quantity and quality of organic matter exported from Greenlandic glaciated and deglaciated watersheds, *Global Biogeochemical Cycles*, 34, e2020GB006614. <https://doi.org/10.1029/2020GB006614>.
- (127) Zhang, T., Li, J., Pu, J., Martin, J.B., Want, S., Yuan, D., 2020, Rainfall possibly disturbs the diurnal pattern of CO₂ degassing in the Lijiang River, SW China, *J. Hydro*, <https://doi.org/10.1016/j.jhydrol.2020.125540>
- (126) Huang, He, Chen, Zhihua, Wang, Tao, Zhou, Gaoming, Martin, Jonathan B., Zhang, Liang, Meng, Xianmeng, 2020, Origins and mixing contributions of deep warm groundwater in a carbonate-hosted ore deposit, Sichuan-Yunnan-Guizhou Pb-Zn triangle, southwestern China, *J. Hydro.*, <https://doi.org/10.1016/j.jhydrol.2020.125400>
- (125) Gulley, J.D., Breecker, D., Covington, M., Cooperdock, S., Banner, J., Moore, P.J., Noronha, A., Briethaupt, C., Martin, J.B., Jenson, J., 2020, Dissolution and cave formation at water tables in eogenetic limestone: the role of tidal pumping and biogeochemical processes in the tidal capillary fringe, *ESPL*, DOI:10.1002/asp.4922.
- (124) Pain, A.J., Martin, J.B., Young, C.R., Valle-Levinson, A., Mariño-Tapia, I., 2019, Carbon and phosphorus processing in a carbonate karst aquifer and delivery to the coastal ocean, *Geochemica Cosmochimica Acta*, GCA, 269: 484-495.
- (123) Kellerman, A.M., Arellano, A., Podgorski, D.C., Martin, E.E., Martin, J.B., Deuerling, K.M., Bianchi, T.S., Spencer, R.G.M., 2019, Fundamental drivers of dissolved organic matter composition across an Arctic effective precipitation gradient, *Limnology and Oceanography*, DOI: 10.1002/lno.11385.
- (122) Sullivan, P., Macpherson, G.L., Martin, J.B., Price, R.M., (2019) Evolution of Carbonate and Karst Critical zones, *Chem. Geo.*, DOI: 10.1016/j.chemgeo.2019.06.023
- (121) Zhang, X., Bianchi, T.S., Coen, M.J., Martin, J.B., Quintero, C.J., Brown, A.L., Ares, A.M., Heffernan, J.B., Ward, N., Osborne, T.Z., Shields, M.R., Kenney, W.F., 2019, Initiation and Development of wetlands in southern Florida karst landscape associated with accumulation of organic matter and vegetation evolution, *JGR Biogeosciences*, 124, <https://doi.org/10.1029/2018JG004921>.

- (120) Pu, J., Li, J., Zhang, T., Martin, J.B., Khadka, M.B., Yuan, D., 2019, Diel-scale variation of dissolved inorganic carbon during a rainfall event in a small karst stream in southern China, Env. Sci. and pollution Research, doi.org/10.1007/s11356-019-04456-z, 16 p.
- (119) Pain, A.J., Martin, J.B., Young, C.R., 2019, Sources and sinks of CO₂ and CH₄ in siliciclastic subterranean estuaries, L&O, doi: 10.1002/lno.11131.
- (118) Pain, A.J., Martin, J.B., Young, C.R., Huang, L., Valle-Levinson, A., (2019), Organic matter quantity and quality across salinity gradients in conduit-versus diffuse flow dominated subterranean estuaries, doi: 10.1002/lno.11122.
- (117) Deuerling, K. M.*., Martin, J. B.#, Martin, E. E., Abermann, J., Myreng, S. M., Petersen, D., & Rennermalm, A. K. (2019). Chemical weathering across the western foreland of the Greenland Ice Sheet. *Geochimica et Cosmochimica Acta*, 245, 426-440.
<https://doi.org/10.1016/j.gca.2018.11.025>
- (116) Spellman, Patricia., Gulley, Jason, Martin, Jonathan B., Loucks, Jeremy, 2019, The role of antecedent groundwater heads in controlling transient aquifer storage and flood peak attenuation in karst watersheds, Earth Surf. Proc. Landforms, DOI: 10.1002/esp.4481, 44: 77-87.
- (115) Chamberlin, C., Dong, X., Quintero, C., Cohen, M., Ward, N., Murray, A., McLaughlin, D., Watts, A., Bianchi, T., Martin, J., Pain, A., Zhang, X., Flint, M., Brown, A., Heffernan, J., in press, Holocene development of a karst Patterned Landscape in South Florida, Chem. Geol.
- (114) Dong, Xiaoli, Cohen, Matthew J., Martin, Jonathan B., Murray, A. Brad, McLaughlin, Daniel L., Ward, Nicholas D., Flint, M., Heffernan, James B., in press, Ecohydrologic processes and soil thickness feedbacks control limestone-weathering rates in a karst landscape, Chem. Geology
- (113) Brown, A.L, Martin, J.B., Kamenov, G., Ezell, J.E., Sreaton, E.J., Gulley, J.D., Spellman, P.D., in press, Trace metal cycling in karst aquifers subject to periodic river water intrusion, Chem Geo.
- (112) Liu, Z., Macpherson, G.L., Groves, C., Martin, J.B., Yuan, D., Zeng, S., 2018, Large and active CO₂ uptake by coupled carbonate weathering, Earth-Science Reviews,
<https://doi.org/10.1016/j.earscirev.2018.05.007>, vol. 182, p. 42-49.
- (111) Burkett, A.M., Rathburn, A.E., Perez, M.E., and Martin, J.B., 2018 Influences of thermal and fluid characteristics of methane and hydrothermal seeps on the stable oxygen isotopes of living benthic foraminifera, Marine and Petroleum Geology, doi: 10.1016/j.marpetgeo.2018.02.037.
- (110) Deuerling, K.M.*., Martin, J.B., and Martin, E.E., 2018, Hydrologic exchange and chemical weathering in a proglacial watershed near Kangerlussuaq, west Greenland, *Jour. Hydrology*, 556, 220-232, doi.org/10.1016/j.jhydrol.2017.11.002.
- (109) Young, C., Martin, J. B., Branyon, J., Pain, A., Valle-Levinson, A., Mariño-Tapia, I., & Rebolledo Vieyra, M. (2018). Effects of short-term variations in sea level on dissolved oxygen in a coastal karst aquifer, Quintana Roo, Mexico. *Limnology and Oceanography*, 63, 352-362. <https://doi.org/10.1002/lno.10635>
- (108) Zhang, T., Li, J., Pu, J., Martin, J.B., Khadka, M.B., Wu, F., Li, L., Jiang, F., Huang, S., Yuan, D., 2017, River sequesters atmospheric carbon and limits the CO₂ degassing in karst area, southwest China, Sci Tot Env., 609, 92-101.

- (107) Valle-Levinson, A., Dutton, A., Martin, J.B., 2017, Spatial and temporal variability of sea-level rise hotspots over the eastern United States, *GRL*, 44, doi:10.1002/2016GL073926.
- (106) Khadka, M.B., Martin, J.B., Kurz, M.J., 2017, Synoptic estimates of diffuse groundwater seepage to a spring-fed karst river at high spatial resolution using an automated radon measurement technique, *J. Hydro.*, 544; 86-96.
- (105) Martin, J.B., 2017, Carbonate minerals in the global carbon cycle, *Chem Geol.*, 10.1016/j.chemgeo.2016.11.029, 449: 58-72.
- (104) Junbing Pu, Jianhong Li, Mitra B Khadka, Jonathan B Martin, Tao Zhang, Yu Shi, Daoxian Yuan, 2016, In-stream metabolism and atmospheric carbon sequestration in a groundwater-fed karst stream, *Science of the Total Environment*, STOTEN-21434, 13 pages.
- (103) Gulley, J.D., Mayer, A.S., Martin, J.B., Bedekar, V., 2016, Sea level rise and inundation of island interiors: assessing impacts of lake formation and evaporation on water resources in arid climates, *GRL*, DOI 10.1002/2016GL070667.
- (102) Burkett, A., Rathburn, A.E., Perez, M.E., Martin, J.B., Levin, L.A., 2016, Influences of thermal and fluid characteristics of methane and hydrothermal seeps on the stable oxygen isotopes of living benthic foraminifera, *Marine Chemistry*, in press
- (101) Young, C., Martin, J.B., Hanson, G., 2016, Controls on nitrous oxide production in and fluxes from a coastal aquifer in Long Island, NY, USA, *J Mar Sci Eng*, doi:10.3390/jmse4040071, 4, 71.
- (100) Brown, A.L., Young, C., Martin, J.B., 2016 Groundwater-surface water interactions in the Suwannee River Basin, *Florida Sci.*, 79(4): 220-238.
- (99) Martin, J.B., Kurz, M.J., Khadka, M.B., 2016, Climate control of decadal-scale increases in apparent ages of eogenetic karst spring water, *J. Hydro.*, v. 540, p. 988-1001.
- (98) Gulley, J.D., Martin, J.B., Brown, A., 2016, Organic carbon inputs, common ions and degassing: rethinking mixing dissolution in eogenetic coastal carbonate aquifers, *ESPL*, doi:10.1002/esp.3975, 41:2098-2110.
- (97) Rosenmeier, Michael F., Hodell, David A., Brenner, Mark, Martin, Jonathan B., Curtis, Jason H., Binford, Michael W., 2016, A model of the 4,000-year paleohydrology ($\delta^{18}\text{O}$) record from Lake Salpeten, Guatemala, *Global and Planetary Change*, 43-55.
- (96) *Scribner, C. A., Martin, E. E., Martin, J. B., Deuerling, K. M., Collazo, D. F., & Marshall, A. T. (2015). Exposure age and climate controls on weathering in deglaciated watersheds of western Greenland. *Geochimica et Cosmochimica Acta*, 170, 157-172.
<https://doi.org/10.1016/j.gca.2015.08.008>
- (97) Chevis, Darren A., Johannesson, Karen H., Burdige, David J., Cable, Jaye E., Martin, Jonathan B., Roy, Moutusi, 2015, Rare earth element cycling in a sandy subterranean estuary in Florida, USA, *Marine Chemistry*, 176, 34-50.
- (94) Gulley, J.D., Martin, J.B., Moore, P.J., Brown, A., Spellman, P.D., Ezell, J., 2015, Heterogeneous distributions of CO₂ may be more important for dissolution and karstification in coastal eogenetic limestone than mixing dissolution, *ESPL* DOI: 10.1002/esp.3705.
- (93) Sutton, J., Sreaton, E.J., Martin, J.B., 2014, Insights on surface water-groundwater exchange in the upper Floridan aquifer, north-central Florida (USA) from streamflow data and numerical modeling, *Hydrogeology Journal*, 1-13.

- (92) Kurz, M.J., Martin, J.B., Cohen, M.J., Hensley, R., 2014, Diffusion and seepage-driven element fluxes from the hyporheic zone of a karst river, *Freshwater Science*, DOI: 10.1086/679654, v. 34.
- (91) Jin J., Zimmerman, A.R., Martin, J.B., Khadka, M., 2014, Spatiotemporal variations in carbon dynamics during a low flow period of a carbonate karst watershed: Santa Fe River, Florida, USA, *Biogeochemistry*, DOI: 10.1007/s10533-014-0035-6, v. 122, p. 131-150.
- (90) Brown, A.L., Martin, J.B., Sreaton, E., Ezell, J., Spellman, P., Gulley, J., 2014, Bank storage in karst aquifers: The impact of temporary intrusion of river water on carbonate dissolution and trace metal mobility, *Chemical Geology*, v. 385, 56-69.
- (89) *Khadka, M. B., Martin, J. B., & Jin, J. (2014). Transport of dissolved carbon and CO₂ degassing from a river system in a mixed silicate and carbonate catchment. *Journal of Hydrology*, 513, 391-402. <https://doi.org/10.1016/j.jhydrol.2014.03.070>
- (88) Watts, A.C., Watts, D.L., Cohen, M.J., Heffernan, J.B., McLaufhlin, D.L., Martin, J.B., Kaplan, D.A., Osborne, T.Z., and Kobziar, L.N., 2014, Evidence of biogeomorphic patterning in a low-relief karst landscape, *ESPL*, DOI: 10.1002/esp.3597, v. 39, p. 2027-2037.
- (87) Gulley, J., Martin, J.B., Moore, P.J., 2013, Vadose CO₂ gas forms water table caves in eogenetic limestone rather than mixing dissolution, *ESPL*, v. 38, 1210-1224.
- (86) Meyerhoff, S.B., Maxwell, R.M., Revel, A., Martin, J.B., Karaoulis, M. and Graham, W.D., 2014, Characterization of groundwater and surface water mixing in a semi-confined karst aquifer using time-lapse electrical resistivity tomography, *Water Resources Research*, 50, doi: 10.1002/2013WR013991.
- (85) Jin, J., Zimmerman, A. R., Moore, P.J., Martin, J.B., 2013, Organic and inorganic carbon dynamics in a karst aquifer: Santa Fe River sink-rise system, north Florida, USA, *JGR-Biogeochemistry*.
- (84) Kurz, M.J., de Montety, V., Martin, J.B., Cohen, M.J., Foster, C.R., 2013, Controls on diel metal cycles in a biologically productive carbonate-dominated river, *Chem. Geol.*, v. 358, p. 61-74
- (83) Gulley, J., Spellman, P., Covington, M., Martin, J.B., Benn, D., and Catania, G., 2013, Large values of hydraulic roughness in subglacial conduits during conduit enlargement: Implications for modeling, *ESPL*, doi: 10.1002/ESP.3447.
- (82) Martin, J.B., Brown, A.* , and Ezell, J.* , 2013, Do carbonate karst terrains affect the global carbon cycle? *Acta Carsologica*, v. 42, p. 187-196
- (81) Gulley, J., Martin, J.B., Spellman, P., Moore, P., and Sreaton, E., 2013, Dissolution in a partially confined carbonate platform: Effects of alloegenic runoff, hydraulic damming of groundwater inputs, and surface-groundwater exchange at the basin scale, *ESPL*, DOI: 10.1002/espq.3411.
- (80) Cohen, M.J., Kurz, M.J., Heffernan, J.B., Martin, J.B., Douglass, R.L., Foster, C.R., and Thomas, R.G., 2013, Diel phosphorous variation and the stoichiometry of ecosystem metabolism in a large spring-fed river, *Ecol. Monographs*, 83: 155-176.
- (79) Meyerhoff, S.B., Karaoulis, M., Fiebig, F, Maxwell R.M., Revil, A., Martin, J.B., Graham, W.D., 2012, Visualization of conduit-matrix exchange in a karst aquifer using time-lapse electrical resistivity, *Geophys. Rev. Letters*, v. 39, doi:10.1029/2012GL053933.

- (78) Roy, M., Martin, J.B., Cable, J.E., Smith, C.G., 2012, Variations of iron flux and organic carbon remineralization in a subterranean estuary caused by interannual variations in recharge, *Geochim. Cosmochim. Act.*, v. 103, p. 301-315.
- (77) Gulley, J., Martin, J.B., Spellman, P., Moore, P., and Screamton, E., 2012, Influence of partial confinement and Holocene river formation on groundwater flow and dissolution in the Florida carbonate platform, *Hydro. Proc.*, DOI: 10.1002/hyp.9601.
- (76) Gulley, J., Martin, J.B., Moore, P.J., Murphy, J., 2012, Formation of phreatic caves in an eogenetic karst aquifer by CO₂ enrichment at lower water tables and subsequent flooding by sea level rise, *ESPL*, DOI: 10.1002/esp.3358.
- (75) Gulley, J., Grabiec, M., Martin, J.B., Jania, J., Catania, G., and Glowacki, P., 2012, The effects of discrete recharge by moulins and heterogeneity in flow path efficiency at glacier beds on subglacial hydrology, *J. Glaciology*, v 58, p. 926-940.
- (74) Gulley, J., Walthard, P., Martin, J.B., Banwell, A., Benn, D.I., Catania, G., and Willis, I., 2012, Conduit roughness and dye trace breakthrough curves: Why slow velocity and high dispersivity may not reflect flow in distributed systems, *J. Glaciology*, v. 58, p. 915 – 925.
- (73) *Langston, A.L., Screamton, E.J., Martin, J.B., Bailly-Comte, V., 2012, Interactions of diffuse and focused alloigenic recharge in an eogenetic karst aquifer, *Hydrogeology Journal*, v. 20, p. 767-781.
- (72) *Roy, M., Rouxel, O., Martin, J.B., Cable, J.E., 2012, Iron isotope fractionation in a sulfide-bearing subterranean estuary and its potential influence on oceanic ⁵⁶Fe isotope flux, *Chemical Geology* v. 300-301, p. 133-142.
- (71) Cohen, M.J., Heffernan, J.B., Albertin, A., Martin, J.B., 2012, Inference of Riverine Nitrogen Processing from Longitudinal and Diel Variations in Dual Nitrate Isotopes, *J. Geophys. Res. Biogeosciences*, v117, G01021, doi:10.1029/2011JG001715, 2012.
- (70) Martin, J.B., *Gulley, J., *Spellman, P., 2012, Tidal pumping of water between Bahamian blue holes, aquifers, and the ocean, *J. Hydrology* doi: 10.1016/j.jhydrol.2011.11.033; 416-417, 23-38.
- (69) Dorsett, A., Cherrier, J., Martin, J.B., Cable, J.E., 2011, Assessing hydrologic and biogeochemical controls on pore-water dissolved inorganic carbon cycling in a subterranean estuary: A ¹⁴C and ¹³C mass balance approach, *Mar. Chem.*, doi [10.1016/j.marchem.2011.07.007](https://doi.org/10.1016/j.marchem.2011.07.007)
- (68) *Roy, M., Martin, J.B., Smith, C.G., and Cable, J.E., 2011, Reactive-transport modeling of iron diagenesis and associated organic carbon remineralization in a Florida (USA) subterranean estuary, *Earth Planet Sci. Lett.*, v. 304, p. 191-201
- (67) Gieskes, J., Rathburn, A.E., Martin, J.B., Pérez, M.E., Mahn, C., Bernhard, J.M., and Day, S., 2011, Cold seeps in Monterey Bay, California: Geochemistry of pore waters and relationship to Benthic Foraminiferal Calcite, *Applied Geochemistry*, v. 26, p. 738-746.
- (66) Johannesson, K.H., Chevis, D.A., Burdige, D.J., Cable, J.E., Martin, J.B., and Roy, M., 2011, Submarine groundwater discharge is an important net source of light and middle REEs to coastal waters of the Indian River Lagoon, Florida, USA, *Geochim. Cosmochim. Acta*, v. 75, p. 825-843.
- (65) **deMontety, V., Martin, J.B., Cohen, M.J., Foster, C., *Kurz, M.J., 2011, Influence of diel biogeochemical cycles on carbonate equilibrium in a karst river, *Chemical Geol.*, doi: 10.1016/j.chemgeo.2010.12.025.

- (64) **Bailly-Comte, V., Martin, J.B. and Screamton, E.J., 2011, Time variant cross-correlation to assess residence time of water, implication for hydraulics of a sink/rise karst system, *Water Resources Research*, v. 47 W05547, doi: 10.1029/2010WR009613.
- (63) *Gulley, J., Martin, J.B., Screamton, E.J., and *Moore, P.J., 2011 River reversals into karst springs: A model for cave enlargement in eogenetic karst aquifers, *Geol. Soc. Am. Bull.* v. 123, p. 457-467.
- (62) *Moore, P.J., Martin, J.B., Screamton, E.J., and Neuhoff, P.S., 2010, Conduit enlargement in an eogenetic karst aquifer, *J. Hydrology*, 393: 143-155, doi: 10.1016/j.jhydrol.2010.08.008.
- (61) Bernhard, J.M., Martin, J.B., and Rathburn, A.E., 2010, Combined carbonate carbon isotopic and cellular ultrastructural studies of individual benthic foraminifera: 2. Toward an understanding of apparent disequilibrium in hydrocarbon seeps, *Paleoceanography*, v. 25, DOI: 10.1029/2010PA001930.
- (60) *Roy, M., Martin, J.B., Cherrier, J., Cable, J.E., Smith, C.G., 2010, Influence of sea level rise on iron diagenesis in an east Florida subterranean estuary, *Geochimica et Cosmochimica Acta*, doi: [10.1016/j.gca.2010.07.007](https://doi.org/10.1016/j.gca.2010.07.007)
- (59) *Crockett, K., Martin, J.B., Grissino-Mayer, H.D., Larson, E.R., and Mirti, T., 2010, Assessment of tree rings as a climate record in a subtropical environment, *J. Am. Water Resources Assoc.*, v. 46, p. 919 – 931.
- (58) **Bailly-Comte V., Martin, J.B., Jourde, H., Screamton, E.J., Pistre, S., *Langston, A., 2010, Influence of pressure transfer and water exchange between matrix and conduits on karst spring hydrographs, *J. Hydrology* 386: 98-114.
- (57) Martin, J.B., Bernhard, J.M., Curtis, J., Rathburn, A.E., 2010, Combined carbonate carbon isotopic and cellular ultrastructural studies of individual benthic foraminifera: I. Method description, *Paleoceanography*, v. 25, DOI: 10.1029/2009PA001846.
- (56) Heffernan, James B., Cohen, Matthew J., Frazer, Thomas K., Thomas Ray G., *Rayfield, Travis J., *Gulley, Jason, Martin, Jonathan B., Delfino, Joseph J., Graham, Wendy D., 2010, Hydrologic and biotic influences on nitrate removal in a spring-fed Florida river, *Limnol. Ocean*, 55: 249-263.
- (55) *Moore, P.J., Martin, J.B., and Screamton, E.J., 2009, Geochemical and statistical evidence of recharge, mixing, and controls on spring discharge in an eogenetic karst aquifer, *J. Hydrol.*, doi: 10.1016/j.jhydrol.2009.07.052.
- (54) *Gulley, J.C., Benn, D.I., Screamton, E., and Martin, J., 2009, Mechanisms of englacial conduit formation and their implications for subglacial recharge, *Quaternary Science Reviews*, DOI:10.1016/j.quascirev.2009.04.002.
- (53) *Ritorto, M., Screamton, E.J., Martin, J.B., and *Moore, P.J., 2009, Relative importance and chemical effects of diffuse and focused recharge in an eogenetic karst aquifer: An example from the unconfined upper Floridan Aquifer, *Hydrogeol. Journal*, DOI 10.1007/s10040-009-0460-0.
- (52) *Chandranath Basak, Anthony E.Rathburn, M. Elena Pérez, Jonathan B. Martin, Jared W.Kluesner, Lisa A. Levin, Patrick De Deckker, Michelle Abriani, 2009, Carbon and oxygen stable isotope geochemistry of live (stained) benthic foraminifera from the north pacific and the south Australian bight, *Marine Micropaleontology*, 70:89-101.
- (51) Rathburn, A.E., Levin, L.A., Tryon, M., Gieskes, J.M., Martin, J.B., Pérez, M.E., Fodrie, F.J., Neira, C., Fryer, G.J., Mendoza, G., McMillan, P.A., Kluesner, J., Adamic, J.,

- Ziebis, W., 2008, Geological and Biological Heterogeneity of the Aleutian Margin (2000-4800 m), *Progress in Oceanography*, doi: [10.1016/j.pocean.2008.12.002](https://doi.org/10.1016/j.pocean.2008.12.002)
- (50) *Smith, Christopher G., Cable, Jaye E., Martin, Jonathan B., *Roy, Moutusi, 2008, Evaluating the source and seasonality of submarine groundwater discharge using a Radon-222 pore water transport model, *EPSL*, **273**:312-322.
- (49) Martin, Jonathan B., and *Moore, Paul J., 2008, Water circulation in carbonate platforms: Evidence from Sr concentrations and isotope ratios, San Salvador Island and Long Island, Bahamas, *Chemical Geology*, **249**:52-65.
- (48) Smith, Christopher G., Cable, J.E., and Martin, Jonathan B., 2008, Episodic high intensity mixing events in the subterranean estuary: Effects of tropical cyclones, *Limnol. Oceanogr.*, **53**:666-674.
- (47) Cable, J.E. and Martin, J.B., 2007, In Situ Evaluation of Nearshore Marine and Fresh Porewater Transport into Flamengo Bay, Brazil, *Estuarine, Coastal and Shelf Science*, **76**: 473-483.
- (46) Oberdorfer, J.A., Charette, M., Allen, M., Martin, J.B., Cable, J.E., 2007, Hydrogeology and geochemistry of the near-shore submarine groundwater discharge at Flamengo Bay, Ubatuba, Brazil, *Estuarine, Coastal and Shelf Science*, **76**:457-465
- (45) Martin, J.B., Cable, J.E., *Smith, C., *Roy, M., Cherrier, J., 2007, Magnitudes of submarine ground water discharge from marine and terrestrial sources: Indian River Lagoon, Florida, *Water Resources Research*, V. 43, W05440, doi:10.1029/2006WR005266.
- (44) *McGowan, K.T., and Martin, J.B., 2007, Chemical composition and spatial distribution of mangrove-generated brines: Interactions with and influences on submarine ground water discharge, *Marine Chemistry*, **104**: 58-68
- (43) *Bhadha, J., Martin, J.B., Jaeger, J., *Lindenberg, M., Cable, J., 2007, Re-circulation of shallow lagoon water and its significance on chemical fluxes in the Banana River Lagoon, Florida, *Journal of Coastal Research*, **23**: 878-891.
- (42) Cable, J.E., Martin, J.B., and Taniguchi, M., 2006, A review of submarine ground water discharge: Biogeochemical inputs and leaky coastlines, in I.S. Zekster, R.G. Dzhamalov, and L.G. Everett (eds.) *Monograph on Submarine Groundwater*, (eds), CRC Press, p. 23-45.
- (41) Cable, J.E., Martin, J.B., and Jaeger, J., 2006, Exonerating Bernoulli? On evaluating the physical and biological processes affecting marine seepage meter measurements, *Limnol. Oceanogr.: Methods*, **4** 172-183.
- (40) Corbett, D.R., Cable, J.E., and Martin, J.B., 2006, Direct measurements of submarine ground water discharge using seepage meters, in I.S. Zekster, R.G. Dzhamalov, and L.G. Everett *Monograph on Submarine Groundwater*, (eds), CRC Press, p. 95-109.
- (39) Martin, J.B., Cable, J.E., Jaeger, J., *Hartl, K., and *Smith, C.G., 2006, Thermal and chemical evidence for rapid water exchange across the sediment-water interface by bioirrigation in the Indian River Lagoon, Florida, *Limnology and Oceanography*, **51**: 1332-1341.
- (38) *Martin, J.M., Screamton, E.J., and Martin, J.B., 2006, Monitoring well responses to karst conduit head fluctuations: Implications for fluid exchange and matrix transmissivity in the Floridan Aquifer, in Harmon, R.S. and Wicks, C, eds., *Perspectives on karst geomorphology, hydrology, and geochemistry – A tribute volume to Derek D. Ford and William B. White*: *Geological Soc. Am. Special Publication* 404, p. 209-217.

- (37) Gieskes, J., Mahn, C., *Day, S., Martin, J.B., Greinert, J., and Rathburn, A.E., and McAdoo, B., 2005, A study of the chemistry of pore fluids and authigenic carbonates in methane seep environments: Kodiak Trench, Hydrate Ridge, Monterey Bay and Eel River Basin, *Chemical Geology* **220**:329-345
- (36) *Buck, D.G., Brenner, M., Hodell, D.A., Curtis, J.H., Martin, J.B., Pagani, M., 2005, Physical and chemical properties of hypersaline Lago Enriquillo, Dominican Republic, *Verh. Internat. Verein. Limnol.*, **29**:725-731.
- (35) Martin, J.B., Thomas, R.G., *Hartl, K.M., 2005, An inexpensive, submersible, automatic water sampler, *Limnology and Oceanography, Methods*, **2**: 398-405.
- (34) Mottl, M., Wheat, G., Fryer, P., Gharib J., and Martin J.B., 2004, Chemistry of springs across the Mariana forearc shows progressive devolatilization of the subducting plate, *Geochimic, Cosmochimica Acta*, **68**:4915-4933.
- (33) Cable, J.E., Martin, J.B., Swarzenski, P.W., *Lindenberg, M.K., and Steward, J., 2004, Ground Water and Pore Water Fluxes to a Coastal Lagoon Using Multiple Techniques, *Ground Water*, **42**:1011-1020.
- (32) Martin, J.B., Cable, J.E., Swarzenski, P.W., and *Lindenberg, M.K., 2004, Mixing of ground water and estuary waters: Influences on ground water discharge and contaminant transport, *Ground Water*, **42**:1000-1010.
- (31) Screatton, E., Martin, J.B., *Ginn, B., *Smith, L., 2004, Conduit properties and karstification in the Santa Fe River Sink-Rise System of the Floridan Aquifer, *Ground Water*, **42**: 338-346.
- (30) Malone, M.J., Martin, J.B., Schönfeld, J. Ninnemann, U.S., Nürnberg, D., and White, T.S., 2004, The oxygen isotopic composition and temperature of Southern Ocean bottom waters during the last glacial maximum. *Earth and Planetary Science Letters*, **222**: 275-283.
- (29) Martin, J.B., *Day, S., Rathburn, A.E., Perez, M.E., *Mahn, C., and Gieskes, J., 2004, Relationships between the stable isotopic signatures of living and fossil foraminifera in Monterey Bay, California, *Geochemistry, Geophysics, Geosystems*, **5(4)**: doi:10.1029/2003GC000629.
- (28) Rathburn, A.E., Perez, M.E., Martin, J.B., *Day, S., *Mahn, C., Gieskes, J., Zebis, Wiebke, *Williams, D., *Duncan, A., 2003, Relationships between the distribution and stable isotopic signatures of living foraminifera, and cold seep biogeochemistry in Monterey Bay, *Geochemistry, Geophysics, Geosystems*, **4(12)** 1106, doi:10.1029/2003GC000595
- (27) Martin, J.B., *Hartl, K., Corbett, R., Swarzenski, P., and Cable, J.E., 2003. A multi-level pore water sampler for permeable sediments, *Journal of Sedimentary Research* **73(1)**: 128-132.
- (26) Lorenson, T.D., Kvenvolden, K.A., Hostettler, F.D., Rosenbauer, R.J., Orange, D.L., and Martin, J.B., 2002, Hydrocarbon geochemistry of cold seeps in the Monterey Bay National Marine Sanctuary, *Marine Geology*, **181**:285-304.
- (25) Malone, M.J., Claypool, G., Martin, J.B., Dickens, G.R., 2002, Variable methane fluxes in shallow marine systems over geologic time The composition and origin of pore waters and authigenic carbonates on the New Jersey shelf, *Marine Geology*, **189**: 175-196.
- (24) Martin, J.B. and *Rymerson, R.A., 2002, A coupled fluid inclusion and stable isotope record of paleo-fluids in the Monterey Formation, California, *Geol. Soc. Am. Bull.*, **114**:269–280.

- (23) *Rosenmeier, M.B., Hodell, D.A., Brenner, M., Curtis, J.H., Martin, J.B., Anselmetti, F.S., Ariztegui, D., and Guilderson, T.P., 2002, Influence of Vegetation Change on Watershed Hydrology: Implications for Paleoclimatic Interpretation of lacustrine $\delta^{18}\text{O}$ Records, *Journal of Paleolimnology*, **29**:117-131.
- (22) Martin, J.B., and *Dean, R.A., 2001, Exchange of water between conduits and matrix in the Floridan Aquifer, *Chemical Geol.*, **179**:145-166.
- (21) Martin, J.B. and *Gordon, S.L., 1999, Surface and ground water mixing, flow paths, and temporal variations in chemical compositions of karst springs, in Sasowsky, I., and Wicks, C.M., (eds.) *Groundwater flow and contaminant transport in carbonate aquifers*, Rotterdam, A.A. Balkema, 65-92.
- (20) Orange, C.L., H.G. Greene, D. Reed, J.B. Martin, C.M. McHugh, W.B.F. Ryan, N. Maher, D. Stakes, J. Barry, 1999, Widespread fluid expulsion on a translational continental margin: Mud volcanoes, fault zones, headless canyons, and organic-rich substrate in Monterey Bay, California, *Geol. Soc. Am. Bull.*, **111**:992-1009.
- (19) Martin, J.B., 1999, Non-conservative behavior of Br/Cl ratios during alteration of volcaniclastic sediments, *Geochim. Cosmochim. Acta*, **63**:383-391.
- (18) Martin, J.B. and *Rymerson, R.A., 1998, Fluid mixing and heterogeneous isotopic compositions of diagenetic minerals from the Monterey Formation at Jalama Beach, California: in Eichhubl, P. and Behl, R.J., *Diagenesis, Deformation, and Fluid Flow in the Miocene Monterey Formation*, The Pacific Section- SEPM (Society for Sedimentary Geology), p.67-77.
- (17) Martin, J.B., Orange, D.L., Lorenzen, T.D., and Kvenvolden, K.A., 1997, Chemical and isotopic evidence of gas-influenced flow at a transform plate boundary: Monterey Bay, California, *J. Geophys. Res.*, **102**:24903-24915.
- (16) Reimers, C.E. K.C. Ruttenberg, D.E. Canfield, M.B., Christiansen, J.B. Martin, 1996, Porewater pH and authigenic phases formed in the uppermost sediments of the Santa Barbara Basin, *Geochim. Cosmochim. Acta* **60**: 4037-4058.
- (15) Henry, P., Le Pichon, X., Lallemand, S., Lance, S., Martin, J., Foucher, J-P., Fiala-Médioni, A., Rostek, F., Guilhaumou, N., Pranal, V., Castrec, M., 1996, Fluid flow in and around of a mud volcano field seaward of the Barbados accretionary wedge: results from Manon cruise; *J. Geophys. Res.* **101**: 20,297-20,323
- (14) Martin, J.B., Kastner, M., Henry, P., Le Pichon, X., Lallemand, S., 1996, Chemical and isotopic evidence for sources of fluids in a mud volcano field seaward of the Barbados accretionary wedge; *J. Geophys. Res.* **101**: 20,325-20,345.
- (13) You, C.-F., Spivack, A.J., Gieskes, J.M., Martin, J.B., and Davisson, M.L., 1996, Boron contents and isotopic compositions in pore waters: a new approach to determine temperature induced artifacts- geochemical implications: *Marine Geology*, **129**: 351-361.
- (12) Martin, J.B., Egeberg, P.K., and Kastner, M., 1995, Origin of saline fluids at convergent margins, In Taylor, B. and Natland, J. (eds.), *Active Margins and Marginal Basins: A Synthesis of Western Pacific Drilling Results*, Geophysical Monograph #88, Washington DC, American Geophysical Union, 219-239.
- (11) Torres, M., Marsaglia, K.M., Martin, J.B., and Murray, R.W., 1995, Fluid-rock interaction and sediment diagenesis in western Pacific basins, In Taylor B and Natland, J. (ed.), *Active Margins and Marginal Basins: A Synthesis of Western Pacific Drilling Results*, Geophysical Monograph #88, Washington DC, 241-258.

- (10) Kastner, M. and Martin, J.B., 1994, Compositions of fluids in subduction zones; *Oceanus*, v. 36, p. 87-90.
- (9) Martin, J.B., 1994, Diagenesis and hydrology at the New Hebrides island arc: in Greene, H.G., Collot, J-Y. et al., (eds.), *Proc. ODP, Sci. Results, 134*: College Station, TX (Ocean Drilling Program), 109-130.
- (8) Martin, J.B., Gieskes, J.M., Torres, M.T. and Kastner, M., 1993, Bromine and iodine in Peru convergent margin sediments and pore fluids: implications for fluid origins: *Geochim. Cosmochim. Acta*, **57**: 4377-4389
- (7) Greene, H.G., Collot, J-Y. and Leg 134 Shipboard Scientific Party, 1991, Material Transfer in an arc-ridge collision zone: *EOS*, **72**: 425-431.
- (6) Kastner, M., Elderfield, H., and Martin, J.B., 1991, Fluids in convergent margins: What do we know about their composition, origin, role in diagenesis and importance for oceanic chemical fluxes?: *Phil. Trans. R. Soc. Lond. A*, **335**: 243-259.
- (5) Martin, J.B., Kastner, M. and Elderfield, H., 1991, Lithium: sources in Peru slope sediments and implications for oceanic fluxes: *Marine Geology*, **102**: 279-290.
- (4) Elderfield, H., Kastner, M. and Martin, J.B., 1990, Compositions and sources of fluids in sediments of the Peru subduction zone: *J. Geophys. Res.*, **95**: 8819-8827.
- (3) Kastner, M., Elderfield, H., Martin, J.B., Suess, E., Kvenvolden, K.A. and Garrison, R.E., 1990, Diagenesis and interstitial water chemistry at the Peruvian continental margin-major constituents and strontium isotopes: in Suess, E., von Huene, et al., (eds.), *Proc. ODP, Sci. Results, 112*: College Station, TX (Ocean Drilling Program), p. 413-440.
- (2) Marty, R.C., Dunbar, R.B., Martin, J.B. and Baker, P.A., 1989, Reply: Late Eocene diatomite from the Peruvian coastal desert, coastal upwelling in the eastern Pacific, and Pacific circulation before the terminal Eocene event: *Geology*, **17**: 957-959.
- (1) Marty, R.C., Dunbar, R.B., Martin, J.B. and Baker, P.A., 1988, Late Eocene diatomite from the Peruvian coastal desert, coastal upwelling in the eastern Pacific, and Pacific circulation before the terminal Eocene event: *Geology*, **16**: 818-822.