

## Selected Coastal Aquifer Publications

- Pain, A.J.\*., Martin, J.B., Young, C.R.\*\*, 2021, Biogeochemical and hydrological drivers of heterogeneous nutrient exports from subterranean estuaries, *Frontiers in Marine Sciences*, 8:699916. Doi:10.3389/fmars.2021.699916.
- Gulley, J.D., Breecker, D., Covington, M., Cooperdock, S., Banner, J., Moore, P.J., Noronha, A., Briethaupt, C., Martin, J.B., Jenson, J., 2020, Tidal pumping and biogeochemical processes: Dissolution within the tidal capillary fringe of eogenetic coastal carbonates, *ESPL*, DOI:10.1002/asp.4922.
- 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.
- Pain, A.J.\*., Martin, J.B., Young, C.R.\*\*, 2019, Sources and sinks of CO<sub>2</sub> and CH<sub>4</sub> in siliciclastic subterranean estuaries, *L&O*, doi: 10.1002/lno.11131.
- 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, *Limnol. Oceanogr.* 64, 1386-1402, doi: 10.1002/lno.11122.
- 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>
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- \*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 <sup>56</sup>Fe isotope flux, *Chemical Geology* v. 300-301, p. 133-142.
- 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.
- \*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
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