

TECHNICAL PUBLICATIONS

- ◆ D. T. Pocknall and R. N. Erlich, 2020, Palynostratigraphy and lithostratigraphy of Upper Cretaceous and Paleogene outcrop sections, Mérida Andes (Maracaibo Basin), Western Venezuela: *Journal of South American Earth Sciences*, v. 104, <https://doi.org/10.1016/j.jsames.2020.102830>
- ◆ R. N. Erlich and J. Pindell, 2020, Crustal origin of the West Florida Terrane, and detrital zircon provenance and development of accommodation during initial rifting of the southeastern Gulf of Mexico and western Bahamas, *in*, Davidson, I., Hull, J.N.F. and Pindell, J. (eds.), *The Geology and Hydrocarbon Potential of Mexico and the Northern Caribbean*. Geological Society of London Special Publication 504, <https://sp.lyellcollection.org/content/early/2020/06/08/SP504-2020-14>. Supplementary material at <https://doi.org/10.6084/m9.figshare.c.5001527>.
- ◆ J. Pindell, B. Weber, W. Hale-Erlich, S. Cossey, M. Bitter, R. Molina, R. Graham, and R. N. Erlich, 2020 (in press), Strontium isotope dating of evaporites and the breakup of the Gulf of Mexico and Proto-Caribbean Seaway, *in*, Martens, U., Molina Garza, R.S. (eds.), *Southern and Central Mexico: Basement Framework, Tectonic Evolution, and Provenance of Mesozoic–Cenozoic Basins*. Geological Society of America Special Paper 546. [https://doi.org/10.1130/2020.2546\(12\)](https://doi.org/10.1130/2020.2546(12)).
- ◆ A. Goswami, J. Pindell, R. N. Erlich, K. Reuber, and B. Horn (2019), Regional structure and petroleum potential of the North Panama Deformed Belt. *GeoGulf Transactions*, v. 69, p. 365–372.
- ◆ R. N. Erlich, W. Hermoza, and D. Jarvie, 2018a, Depositional environments and geochemistry of the Upper Triassic- Lower Jurassic Pucará Group, Huallaga Basin, Perú, *in*, Zamora, G., McClay, K., and Ramos, V., *Petroleum Basins and Hydrocarbon Potential of the Andes of Peru and Bolivia: American Association of Petroleum Geologists Memoir 117*, p. 141-174.
- ◆ R. N. Erlich, J. Fallon, and P. O’Sullivan, 2018b, Stratigraphy and LA-ICP-MS zircon U-Pb provenance of Middle Permian-Maastrichtian sandstones from outcrop and subsurface control in the Subandean basins of Perú, *in*, G. Zamora, K. McClay, and V. Ramos, *Petroleum Basins and Hydrocarbon Potential of the Andes of Peru and Bolivia: American Association of Petroleum Geologists Memoir 117*, p. 175-222.
- ◆ R. Erlich, J. Pindell, and L. Dzou, 2015, Petroleum potential of the Florida-Cuba-Bahamas collision zone (extended abstract), *in*, *Gulf Coast Association of Geological Societies Transactions*, v. 65, p. 443–445.
- ◆ R. N. Erlich, G. Wine, C. Monges, J. Rebaza, M. Angel A., and C. Alegría, 2011, Sub-thrust oil and gas potential of Block 107: A potential giant field complex along the Peruvian mountain front, *in*, *Proceedings of the 7th INGEPET Meeting, November 7-11, 2011, Lima, Peru: Digital publication*, 13 p.
- ◆ R. N. Erlich and D. A. Leckie, 2008, The geology of stratigraphic heavy oil accumulations in North and South America (abstract): *Earth Sciences Journal*, Universidad Nacional de Colombia, from *Conventional and Unconventional Hydrocarbon Resources International Conference*, Cartagena, Colombia, Feb. 6-8, 2008, p. 54.
- ◆ R. N. Erlich and J. Keens-Dumas, 2007, Late Cretaceous Palaeogeography of North-eastern South America: Implications for source and reservoir development, *in*, *Proceedings of the 4th Geological*

Conference of the Geological Society of Trinidad and Tobago, "Caribbean Exploration – Planning for the Next Century." June 17-22, 2007, Port-of-Spain, Trinidad: Digital publication, 34 p.

- ◆ O. Macsotay, R. N. Erlich and A. D. Rincón R., 2006, Fósiles Heterocronos en Lodos Anóxicos de la Fosa de Cariaco: Comparación Con el Neocretácico Venezolano: Boletín del Instituto Oceanográfico de Venezuela, v. 45, no. 1, p. 17-39.
- ◆ L. M. Preuher, R., Erlich, R., and L. W. Snee, 2005a, $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology and hypabyssal igneous rocks in the Marañon Basin of Peru – A record of thermal history, structure, and alteration: U.S. Geological Survey Scientific Investigations Report 2005-5132, 41 p.
- ◆ R. N. Erlich and J. L. Coleman, Jr., 2005b, Drowning of the Upper Marble Falls carbonate platform (Pennsylvanian), central Texas: A case of conflicting "signals?" *Sedimentary Geology*, v. 175, p. 479-499.
- ◆ R. N. Erlich, J. Keens-Dumas, and T. Villamil, 2003a, Controls on Upper Cretaceous source rock deposition, Costa Rica to Suriname, *in*, C. Bartolini, R. Buffler, K. Burke, J. Blickwede, and B. Burkart (eds.), *The Gulf of Mexico and Caribbean Region: Plate Tectonics, Basin Formation and Hydrocarbon Habitats: AAPG Memoir 79*, Chp. 1, p. 1-45.
- ◆ O. Macsotay, R. N. Erlich, and T. Peraza, 2003b, Sedimentary structures of the La Luna, Navay and Querecual Formations, Upper Cretaceous of Venezuela: *Palaios*, v. 18, p. 334-348.
- ◆ D. T. Pocknall, R. N. Erlich, J. A. Stein, J. A. Bergen, and M. A. Lorente, 2001, The palynofloral succession across the Cretaceous to Paleocene transition zone, Mérida Andes, western Venezuela, *in*, D. K. Goodman and R. T. Clarke (eds.), *Proceedings of the IX International Palynological Congress*, Houston, Texas, USA, 1996: American Association of Stratigraphic Palynologists Foundation, P. 171-179.
- ◆ R. N. Erlich, S. E. Palmer-Koleman, A. J. Nederbragt, O. Macsotay I., and M. Antonieta Lorente, 2000, Birth and death of the 'La Luna Sea', and origin of the Tres Esquinas phosphorites: *Journal of South American Earth Sciences*, v. 13, p. 21-45.
- ◆ R. N. Erlich, O. Macsotay I., A. J. Nederbragt, and M. Antonieta Lorente, 1999a, Palaeoceanography and depositional environments of Upper Cretaceous rocks of Western Venezuela: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 153, p. 203-238.
- ◆ R. N. Erlich, S. E. Palmer-Koleman, and M. Antonieta Lorente, 1999b, Geochemical characterization of oceanographic and climatic changes recorded in upper Albian to lower Maastrichtian strata, western Venezuela: *Cretaceous Research*, v.20, p. 547-581.
- ◆ A. J. Nederbragt, R. N. Erlich, B. W. Fouke, and G. M. Ganssen, 1998, Paleoeecology of the biserial planktonic foraminifer *Heterohelix moremani* (Cushman) in the late Albian to middle Turonian Circum-North Atlantic: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 144, p. 115-133.
- ◆ R. N. Erlich, D. T. Pocknall, C. A. Yeilding, and M. A. Lorente, 1997a, Chronostratigraphy, depositional environments, and reservoir potential of Eocene rocks, southern and central Mérida Andes (Maracaibo and Barinas/Apure basins), western Venezuela, *in*, K. Shanley, (ed.), *Shallow Marine and Non-marine Reservoirs: Gulf Coast SEPM 18th Annual Research Conference*, December 7-10, Houston, Texas, USA, p. 93-106.

- ◆ R. N. Erlich, A. J. Nederbragt, and M. A. Lorente, 1997b, Origin and depositional environments of Turonian - Maastrichtian organic-rich and phosphatic sediments of Western Venezuela, *in*, Proceedings of the Sixth Simposio Bolivariano, "Exploración Petrolera en las Cuenca Subandinas", September 14-17, Cartagena, Colombia, v. 1, p. 478-524.
- ◆ D. T. Pocknall, R. N. Erlich, J. A. Stein, J. A. Bergen, and M. A. Lorente, 1997c, A Cretaceous-Tertiary boundary section at Río Lora, Mérida Andes, western Venezuela, *in*, Proceedings of the Sixth Simposio Bolivariano, "Exploración Petrolera en las Cuenca Subandinas", September 14-17, Cartagena, Colombia, v. 1, p. 552-564.
- ◆ R. N. Erlich, A. Astorga, Z. Sofer, L. M. Pratt, and S. E. Palmer, 1996, Palaeoceanography of organic-rich rocks of the Loma Chumico Formation of Costa Rica, Late Cretaceous, eastern Pacific: *Sedimentology*, v. 43, p. 691-718.
- ◆ R. N. Erlich, A. P. Longo, Jr., and S. Hayare, 1993a, Response of carbonate platform margins to drowning: evidence of environmental collapse, *in*, R. G. Loucks and J. F. Sarg (eds.), Carbonate Sequence Stratigraphy: AAPG Memoir 57, Chp. 9, p. 241-266.
- ◆ R. N. Erlich, P. F. Farfan, and P. Hallock, 1993b, Biostratigraphy, depositional environment, and diagenesis of the Tamana Formation, Trinidad: a tectonic marker horizon: *Sedimentology*, v. 40, p. 743-768.
- ◆ R. N. Erlich and S. F. Barrett, 1992, Petroleum geology of the Eastern Venezuela foreland basin, *in*, R. Macqueen and D. A. Leckie (eds.), Geology of Foreland Basins: AAPG Memoir 55, Chp. 12, p. 341-362.
- ◆ R. N. Erlich, S. F. Barrett, and B. J. Guo, 1991, Drowning events on carbonate platforms: a key to hydrocarbon entrapment? *in*, Proceedings of the 23rd Offshore Technology Conference, February 4-7, Houston, Texas, USA, p. 101-112.
- ◆ R. N. Erlich, S. F. Barrett, and B. J. Guo, 1990a, Seismic and geologic characteristics of drowning events on carbonate platforms: *AAPG Bulletin*, v. 74, p. 1523-1537.
- ◆ R. N. Erlich and S. F. Barrett, 1990b, Cenozoic plate-tectonic history of the northern Venezuela-Trinidad area: *Tectonics*, v. 9, p. 161-184.
- ◆ R. N. Erlich, et al., 1988, Baltimore Canyon Trough, mid-Atlantic OCS: seismic stratigraphy of Shell/Amoco/Sun wells, *in*, A. W. Bally (ed.), Atlas of Seismic Stratigraphy: AAPG Studies in Geology 27, v. 2, p. 51-65.
- ◆ F. Nagle, R. N. Erlich, and C. J. Canovi, 1978, Caribbean dredge-haul compilation: summary and implications: *Geologie en Mijnbouw*, v. 57, p. 267-270.