

## Publications

### Articles

#### Peer Reviewed (\* denotes student author)

Ruiz-Maraggi, L. and **L. Moscardelli**, in press, Modeling hydrogen storage capacities, injection and withdrawal cycles in salt caverns: Introducing the GeoH2 salt storage and cycling app: International Journal of Hydrogen Energy, <https://doi.org/10.1016/j.ijhydene.2023.03.293>

Schuba, C.N., and **L. Moscardelli**, in review, Subsurface storage in the Mississippi salt basin domes: Considerations for the emerging hydrogen economy: AAPG Bulletin

Zhang, J., **L. Moscardelli**, T. Dooley and N. Schuba (2023) Halokinetic induced topographic controls on sediment routing in salt-bearing basins: A combined physical and numerical modeling approach: GSA Today, v. 33, no. 6, pp. 4-9

\*Prieto, M.I., **Moscardelli, L.** and L. Wood (2021) Deep-water sedimentary bedforms in a mobile substrate terrain: Examples from the central Gulf of Mexico Basin: Interpretation, v. 9. No. 2, pp. SB33-SB48

\*Cardona, S, Wood, L., **Moscardelli, L.** and D. Dunlap (2020) Cannibalization and sealing of deepwater reservoirs by mass-transport complexes – The Jubilee Field, Gulf of Mexico: Interpretation, v. 8, no. 4, pp. SV17-SV30

**Moscardelli, L.**, Ochoa, J., Lunt, I. and L. Zahm (2019) Mixed siliciclastic-carbonate systems and their impact for the development of deepwater turbidites in continental margins: A case study from the Late Jurassic to Early Cretaceous Shelburne subbasin in offshore Nova Scotia: AAPG Bulletin, v. 103, no. 10, pp. 2487-2520

\*Salazar, M., **Moscardelli, L.** and L. Wood, (2018) Two-dimensional stratigraphic forward modelling, reconstructing high-relief clinoforms in the northern Taranaki Basin: AAPG Bulletin. V. 102, no. 12, pp. 2409-2446

**Moscardelli, L.** and L. Wood, 2016, Morphometry of mass-transport deposits as a predictive tool: GSA Bulletin, 128 (1-2), pp. 47-80 doi: 10.1130/B31221.1

\*Salazar, M., **Moscardelli, L.** and L. Wood, 2016, Utilizing clinoform architecture to understand the drivers of basin margin evolution: a case study in the Taranaki basin, New Zealand: Basin Research, 28, pp. 840-865 doi: 10.1111/bre.12138

**Moscardelli, L.**, 2014, Boulders of the Vastitas Borealis Formation: Potential origin and implications for an ancient Martian ocean: GSA Today, v. 24, issue 2, pp. 4-10

Dunlap, D., Wood, L. and **L. Moscardelli**, 2013, Seismic geomorphology of early North Atlantic sediment waves, offshore northwest Africa: Interpretation, v.1, issue 1, SA75-SA91

**Moscardelli, L.**, \*Ramnarine, S. K., Wood, L. and D. Dunlap, 2013, Seismic geomorphological analysis and hydrocarbon potential of the Lower Cretaceous Cromer Knoll Group, Heidrun field, Norway: AAPG Bulletin, v. 97, no. 8, pp. 1227-1248

**Moscardelli, L.**, Dooley, T., Dunlap, D., Jackson, M. and L. Wood, 2012, Deep-water polygonal fault systems as terrestrial analogs for large-scale Martian polygonal terrains, GSA Today, v. 22, no. 8, p. 4-6

**Moscardelli, L.**, Wood, L., and D. Dunlap, 2012, Shelf-edge deltas along structurally complex margins: A case study from eastern offshore Trinidad, AAPG Bulletin, v. 96, no. 8, p. 1483-1522

**Moscardelli, L.** and L. Wood, 2011, Deep-water erosional remnants in eastern offshore Trinidad as terrestrial analogs for teardrop-shaped islands on Mars: Implications for outflow channel formation: Geology, v.39, no.7; p. 699-702

\*Salazar, M., **Moscardelli, L.**, Fisher, W. L., and Lorente, M. A., 2011, Tectonostratigraphic evolution of the Morichito piggyback basin, Eastern Venezuelan Basin: Marine and Petroleum Geology, v. 28, p. 109–125

\*Garciacono, E., Escalona, A., Mann, P., Wood, L., **Moscardelli, L.**, and S. \*Sullivan, 2011, Structural controls on Quaternary deepwater sedimentation, mud diapirism, and hydrocarbon distribution

within the actively evolving Columbus foreland basin, eastern offshore Trinidad: *Marine and Petroleum Geology*, v.28, p. 149-176

**Moscardelli, L.**, and Wood, L. J., 2008, New classification system for mass transport complexes in offshore Trinidad: *Basin Research*, v. 20, no. 1, p. 73–98

**Moscardelli, L.**, Wood, L. J., and Mann, Paul, 2006, Mass-transport complexes and associated processes in the offshore area of Trinidad and Venezuela: *AAPG Bulletin*, v. 90, no. 7, p. 1059–1088

Parra, M., **Moscardelli, L.**, and Lorente, M. A., 2003, Late Cretaceous anoxia and lateral microfacies changes in the Tres Esquinas Member, La Luna Formation, Western Venezuela: *Palaios*, v. 18, no. 4, p.321–333

## Chapters/Sections

Peer Reviewed (\* denotes student author)

- Clare, M, Chaytor, J., Dabson, O., Gamboa, D., Georgiopoulou, A., Easdy, H., Hunt, J., Jackson, C., Katz, O., Krastel, S., Leon, R., Micallef, A., Moernaut, J., Moriconi, R., **Moscaredelli, L.**, Mueller, C., Normandeau, A., Patacci, M., Steventon, M., Urlaub, M., Volker, D., Wood, L. and J. Zane, in press, A consistent global approach for morphometric characterization of subaqueous landslides, in Lintern, G., Mosher, D.C., **Moscaredelli, L.**, Bobrowsky, P.T., Campbell, C., Chaytor, J., Clague, J.J., Georgiopoulou, A., Lajeunesse, P., Normandeau, A., Piper, D.J.W., Scherwath, M., Stacey, C. and D. Turmel, eds., *Subaqueous Mass Movements and Their Consequences: 8th International Symposium: GSL Special Volume*
- \*Prieto, M.I., **Moscaredelli, L.** and L. Wood, 2015, Exploring the influence of deepwater currents as potential triggers for slope instability, *in* Lamarche, G., Mountjoy, J., Bull, S., Hubble, T., Krastel, S., Lane, E., Micallef, A., Moscardelli, L., Mueller, C., Pecher, I. and Woelz, S., eds., *Submarine mass movements and their consequences: 7<sup>th</sup> International Symposium: Springer*, v. 41, p. 331-340
- \*Cardona, S., Wood, L., Day-Stirrat, R. and **L. Moscardelli**, 2015, Sealing capacity of mass transport deposits: Depositional model for a deepwater reservoir in the jubilee gas field, eastern Gulf of Mexico, *in* Lamarche, G., Mountjoy, J., Bull, S., Hubble, T., Krastel, S., Lane, E., Micallef, A., Moscardelli, L., Mueller, C., Pecher, I. and Woelz, S., eds., *Submarine mass movements and their consequences: 7<sup>th</sup> International Symposium: Springer*, v.41, p. 27-37
- Lamarche, G., Mountjoy, J., Bull, S., Hubble, T., Krastel, S., Lane, E., Micallef, A., **Moscaredelli, L.**, Mueller, C., Pecher, I. and Woelz, S., 2015, Submarine mass movements and their consequences, *in* Lamarche, G., Mountjoy, J., Bull, S., Hubble, T., Krastel, S., Lane, E., Micallef, A., **Moscaredelli, L.**, Mueller, C., Pecher, I. and Woelz, S., eds., *Submarine mass movements and their consequences: 7<sup>th</sup> International Symposium: Springer*, v. 41, p. 1–12
- Mosher, D. C., **Moscaredelli, L.**, Shipp, C., Chaytor, J. D., Baxter, C. D. P., Lee, H. J., and Urgeles, R., 2010, Submarine mass movements and their consequences, *in* Mosher, D. C., Shipp, R. C., Moscardelli, L., Chaytor, J. D., Baxter, C. D. P., Lee, H. J. and Urgeles, R., eds., *Submarine mass movements and their consequences: 4th International Symposium: Springer*, v. 28, p. 1–8
- Moscaredelli, L.**, Hornbach, M., and Wood, L. J., 2010, Tsunamigenic risk associated with mass transport complexes in offshore Trinidad and Venezuela, *in* Mosher, D. C., Shipp, R. C., Moscardelli, L., Chaytor, J. D., Baxter, C. D. P., Lee, H. J. and Urgeles, R., eds., *Submarine mass movements and their consequences: 4th International Symposium: Springer*, v. 28, p. 733–744

## Books, Manuals

- G., Mosher, D.C., **Moscaredelli, L.**, Bobrowsky, P.T., Campbell, C., Chaytor, J., Clague, J.J., Georgiopoulou, A., Lajeunesse, P., Normandeau, A., Piper, D.J.W., Scherwath, M., Stacey, C. and D. Turmel, in press, *Subaqueous Mass Movements and Their Consequences: 8th International Symposium: GSL Special Volume*
- Lamarche, G., Mountjoy, J., Bull, S., Hubble, T., Krastel, S., Lane, E., Micallef, A., **Moscaredelli, L.**, Mueller, C., Pecher, I. and Woelz, S., 2015, *Submarine mass movements and their consequences: 7<sup>th</sup> International Symposium: Springer*
- Mosher, D. C., Shipp, C., **Moscaredelli, L.**, Chaytor, J. D., Baxter, C. D. P., Lee, H. J., and Urgeles, R., 2010, *Submarine mass movements and their consequences: 4th International Symposium: Springer*, v. 28, DOI 10.1007/978-90-481-3071-9, 775 p