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Engineering with Nature: The Fusion of Coastal Engineering and Ecology

R.A. Innocenti, R.A. Feagin, J. Figlus, I. Rodriguez-Iturbe

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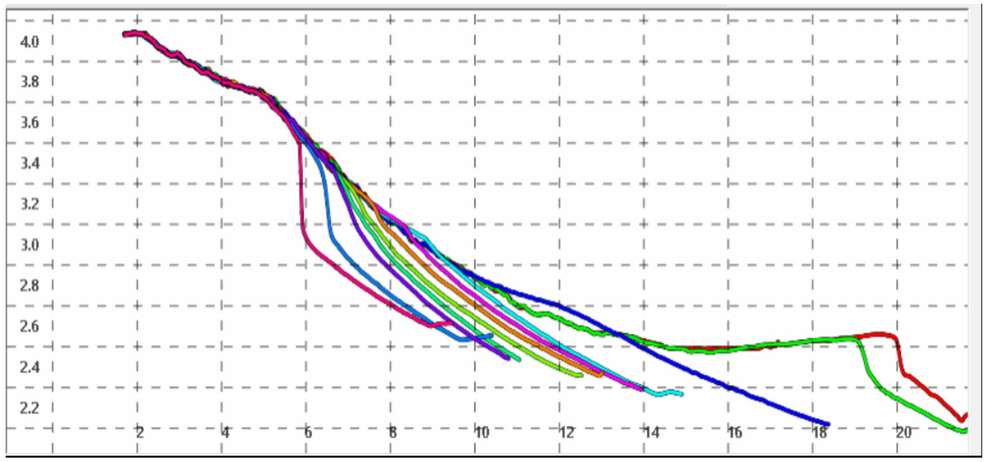

A vegetated dune formed a scarp faster than a bare dune

Different plant attributes predicted a plant's physical response to wind versus run-up

Products:

-Innocenti, R.A., Feagin, R.A., Charbonneau, B.R., Figlus, J., Wengrove, M., Lomonaco, P., Puleo, J., Huff, T.P., Rafati, Y., Hsu, T-J., Tsai, B., Boutton, T., Pontiki, M., Smith, J., Moragues, M.V. The effects of plant structure and fluid properties on the physical response of coastal foredune plants to wind and wave run-up. Coastal Engineering: In review.
-Innocenti, R.A., Feagin, R.A., Charbonneau, B., Huff, T., Figlus, J., Puleo, J.A., Wengrove, M., Cox, D., Hsu, T., 2019. Relating dune grass structure to wind- and wave-induced lift forces and drag moments, and the propensity to uproot during extreme events. 6th Young Coastal Scientists and Engineers Conference- Americas. Corvallis, OR
-Innocenti, R.A., Feagin, R.A., Charbonneau, B., Figlus, J. 2020. On the physical response of coastal foredune plants to wind and wave run-up. ASBPA National Conference 2020, virtual.