

Recent refereed publications by T. Ezer (2012-2018) on topics related to
climate change, sea level rise and flooding
(for full paper PDFs see: <http://www.ccpo.odu.edu/~tezer/Pub.html>)

----- papers on flooding, resilience and climate assessments -----

Ezer, T., (2018), The increased risk of flooding in Hampton Roads: On the roles of sea level rise, storm surges, hurricanes and the Gulf Stream. In: The Hampton Roads Sea Level Rise Preparedness and Resilience Intergovernmental Pilot Project, Toll, R. and G. F. Kuska (Eds.), Marine Technology Society Journal, 52(2), 34-44, doi:10.4031/MTSJ.52.2.6.

Atkinson, L. and **T. Ezer**. (2018), Norfolk, Virginia: A city dealing with increased flooding, Chapter 9.1, pp. 322-326, In: Climate Change and Cities, Second Assessment Report of the Urban Climate Change Research Network, Editors: Rosenzweig, C., W. D. Solecki, P. Romero-Lankao, S. Mehrotra, S. Dhakal and S. A. Ibrahim, Cambridge University Press.

Hermann, M., S. Doney, T. **Ezer**, K. Gedan, P. Morefield, B. Muhling, D. Pirhalla, S. Shaw, (2018) Scientific and Technical Advisory Committee Review of the Chesapeake Bay Program Partnership's Climate Change Assessment Framework and Programmatic Integration and Response Efforts. STAC Publication Number 18-001, Edgewater, MD., 32pp.

Ezer, T. and L. Atkinson (2015), Sea level rise in Virginia- causes, effects and response. Virginia Journal of Science, 66(3), 355-359, Publication of the Virginia Academy of Science.

Ezer, T. and L. P. Atkinson (2014), Accelerated flooding along the U. S. East Coast: On the impact of sea level rise, tides, storms, the Gulf Stream and the North Atlantic Oscillations. Earth's Future, 2(8), 362-382, doi:10.1002/2014EF000252.

Atkinson, L. P., T. **Ezer** and E. Smith (2013), Sea level rise and flooding risk in Virginia, Sea Grant Law and Policy Journal, Vol. 5, No. 2, 3-14.

Boesch, D.F., L.P. Atkinson, W.C. Boicourt, J.D. Boon, D.R. Cahoon, R.A. Dalrymple, T. **Ezer**, B.P. Horton, Z.P. Johnson, R.E. Kopp, M. Li, R.H. Moss, A. Parris, C.K. Sommerfield (2013), Updating Maryland's Sea-level Rise Projections. Special Report of the Scientific and Technical Working Group to the Maryland Climate Change Commission, 22 pp. University of Maryland Center for Environmental Science, Cambridge, MD.

----- papers on sea level acceleration and relation to Gulf Stream & AMOC -----

Ezer, T. (2015), Detecting changes in the transport of the Gulf Stream and the Atlantic overturning circulation from coastal sea level data: The extreme decline in 2009-2010 and estimated variations for 1935-2012, Global and Planetary Change, 129, 23-36, doi:10.1016/j.gloplacha.2015.03.002.

Ezer, T. (2013), Sea level rise, spatially uneven and temporally unsteady: Why the U.S. East Coast, the global tide gauge record and the global altimeter data show different trends, *Geophys. Res. Lett.*, 40(20), 5439-5444, doi:10.1002/2013GL057952.

Ezer, T., L. P. Atkinson, W. B. Corlett and J. L. Blanco (2013), Gulf Stream's induced sea level rise and variability along the U.S. mid-Atlantic coast, *J. Geophys. Res.*, 118(2), 685-697, doi:10.1002/jgrc.20091.

Ezer, T. and W. B. Corlett (2012), Is sea level rise accelerating in the Chesapeake Bay? A demonstration of a novel new approach for analyzing sea level data, *Geophys. Res. Lett.*, 39(19), L19605, doi:10.1029/2012GL053435.

Ezer, T. and W. B. Corlett (2012), Analysis of relative sea level variations and trends in the Chesapeake Bay: Is there evidence for acceleration in sea level rise? *Proc. Oceans'12 MTS/IEEE*, October 14-19, Paper# 120509-002, IEEE Xplore, 1-5, doi:10.1109/OCEANS.2012.6404794.

----- papers on tides, hurricanes and short-term variability -----

Ezer, T., (2018), On the interaction between a hurricane, the Gulf Stream and coastal sea level, *Ocean Dynamics*, 68, 1259-1272, doi:10.1007/s10236-018-1193-1.

Ezer, T., L. P. Atkinson and R. Tuleya (2017), Observations and operational model simulations reveal the impact of Hurricane Matthew (2016) on the Gulf Stream and coastal sea level, *Dynamics of Atmospheres & Oceans*, 80, 124-138. doi:10.1016/j.dynatmoce.2017.10.006.

Ezer, T. and L. P. Atkinson (2017), On the predictability of high water level along the U.S. East Coast: can the Florida Current measurement be an indicator for flooding caused by remote forcing?, *Ocean Dynamics*, 67(6), 751-766, doi:10.1007/s10236-017-1057-0.

Cheng, Y., **T. Ezer** and L. P. Atkinson (2017), Analysis of tidal amplitude changes using the EMD method, *Continental Shelf Research*, 148, 44-52, doi:10.1016/j.csr.2017.09.009.

Ezer, T., (2016), Can the Gulf Stream induce coherent short-term fluctuations in sea level along the U.S. East Coast?: A modeling study, *Ocean Dynamics*, 66(2), 207-220, doi:10.1007/s10236-016-0928-0.

----- papers involved numerical modeling of the Gulf Stream and sea level -----

Ezer, T., (2018), On the interaction between a hurricane, the Gulf Stream and coastal sea level, *Ocean Dynamics*, 68, 1259-1272, doi:10.1007/s10236-018-1193-1.

Ezer, T. (2017), A modeling study of the role that bottom topography plays in Gulf Stream dynamics and in influencing the tilt of mean sea level along the U.S. East Coast, *Ocean Dynamics*, 67(5), 651-664, doi:10.1007/s10236-017-1052-5.

Ezer, T., (2016), Can the Gulf Stream induce coherent short-term fluctuations in sea level

along the U.S. East Coast?: A modeling study, *Ocean Dynamics*, 66(2), 207-220,
doi:10.1007/s10236-016-0928-0.

Ezer, T., (2016), Revisiting the problem of the Gulf Stream separation: on the representation of topography in ocean models with different types of vertical grids, *Ocean Modelling*, 104, 15-27. doi:10.1016/j.ocemod.2016.05.008.

----- papers on sea level at non-US coasts -----

Cheng, Y., T. **Ezer** and B. Hamlington, (2016), Sea level acceleration in the China Seas, in: *Sea Level Changes*, A. Hu (Ed.), *Water*, 8(7), 293. doi:10.3390/w8070293.

Ezer, T., I. D. Haigh and P. L. Woodworth (2016), Nonlinear sea-level trends and long-term variability on western European coasts, *J. Coastal Res.*, 32(4),744-755,
doi:10.2112/JCOASTRES-D-15-00165.1.

Saramul, S. and T. **Ezer** (2014), Spatial variations of sea level along the coast of Thailand: Impacts of extreme land subsidence, earthquakes and the seasonal monsoon, *Global and Planetary Change*, 122, 70-81, doi:10.1016/j.gloplacha.2014.08.012.