

Recent Publications, Dr. Philip B. Bedient

1. Christian, J., Fang, Z., Torres, J., Deitz, R., Bedient, P. (2014) "Modeling the Hydraulic Effectiveness of a Proposed Storm Surge Barrier System for the Houston Ship Channel during Hurricane Events." *ASCE Natural Hazards Review*, CID: 04014015, DOI: [http://dx.doi.org/10.1061/\(ASCE\)NH.1527-6996.0000150](http://dx.doi.org/10.1061/(ASCE)NH.1527-6996.0000150)
2. Sebastian, A., Bedient, P., Proft, J., Dietrich, J., Dawson, C., (2014) "Characterizing hurricane storm surge behavior in Galveston Bay using the SWAN+ADCIRC Model" *Coastal Engineering*. 88, 171-181, DOI: 10.1016/j.coastaleng.2014.03.002.
3. Fang, Z., Dolan G., Sebastian, A., and Bedient, P. (2014) "Case Study of Flood Mitigation and Hazard Management at the Texas Medical Center in the Wake of Tropical Storm Allison in 2001" *ASCE Natural Hazards Review*, ASCE, ISSN 1527-6988/05014001(11), 15(3).
4. Burleson, D., Rifai, H., Dawson, C., and Bedient, P., (2013) "Vulnerability of an Industrial Corridor in Texas to Storm Surge" *ASCE Natural Hazards Review*, (In review).
5. Brody, S.D., Blessing, R., Sebastian, A., and Bedient, P.B. (2013). "Delineating the Reality of Flood Risk and Loss in Southeast, TX." *ASCE Natural Hazards Review*, 14, 89-97. doi: 10.1061/(ASCE) NH.1527-6996.0000091.
6. Teague, A., J. Christian, and P. Bedient. (2013) "Use of Radar Rainfall in an Application of Distributed Hydrologic Modeling for Cypress Creek Watershed, Texas". *Journal of Hydrologic Engineering*. DOI: 10.1061/(ASCE) HE.1943-5584.000056.
7. Doubleday, G., Sebastian, A., Luttenschlager, T., and Bedient, P.B. (2013). "Modeling Hydrologic Benefits of Low Impact Development: A Distributed Hydrologic Model of The Woodlands, TX." *Journal of American Water Resources*, 1-13. doi: 10.1111/jawr.12095.
8. Christian, J., A. Teague, L. Dueñas-Osario, Z. Fang, and P. Bedient, (2012). "Uncertainty in Floodplain Delineation: Expression of Flood Hazard and Risk in a Gulf Coastal Watershed." *Journal of Hydrological Processes*, doi: 10.1002/hyp.9360.
9. Ray, T., Stepinski, E., Sebastian, A., Bedient, P.B. (2011) "Dynamic Modeling of Storm Surge and Inland Flooding in Texas Coastal Floodplain" ", *Journal of Hydraulic Engineering*, ASCE, Vol. 137, No.10, October 2011, ISSN 0733-9429/2011/10-1103-1110
10. Fang, Z., Bedient, P. B., and Buzcu-Guven, B. (2011). "Long-Term Performance of a Flood Alert System and Upgrade to FAS3: A Houston Texas Case Study". *Journal of Hydrologic Engineering*, ASCE Vol. 16, No. 10, October 1, 2011, ISSN 1084-0699/2011/10-818-828.
11. Teague, A., Bedient, P. and Guven, B. (2010). "Targeted Application of Seasonal Load Duration Curves using Multivariate Analysis in Two Watersheds Flowing into Lake Houston" (JAWRA-10-0003-P.R1). *Journal of American Water Resources Association*. Accepted.
12. Fang, Z, Zimmer, A., Bedient, P. B, Robinson, H., Christian, J., and Vieux, B. E. (2010). "Using a Distributed Hydrologic Model to Evaluate the Location of Urban Development and

Flood Control Storage”. Journal of Water Resources Planning and Management, ASCE, Vol. 136, No. 5, September 2010, ISSN 0733-9496/2010/5-597-601.

13. Fang, Z., Bedient, P. B., Benavides J.A, and Zimmer A. L. (2008). “Enhanced Radar-based Flood Alert System and Floodplain Map Library”. Journal of Hydrologic Engineering, ASCE, Vol. 13, No. 10, October 1, 2008, ISSN 1084-0699/2008/10-926-938.