

TITUS PUBLICATIONS

U.S. Government Reports Authored, Edited, or Produced

Titus, James.G. 2011. Rolling Easements. Washington, D.C.: Climate Ready Estuaries Program, U.S. Environmental Protection Agency.

James G. Titus and Elizabeth M. Strange. 2008. Background Documents Supporting Climate Change Science Program Synthesis and Assessment Product 4.1: Coastal Elevations and Sensitivity to Sea-Level Rise. Washington, D.C.: U.S. Environmental Protection Agency. EPA 430-R-07-004. 354 pp.

Titus J.G., and J. Wang. 2008. Maps of Lands Close to Sea Level along the Middle Atlantic Coast of the United States: An Elevation Data Set to Use While Waiting for LIDAR. Section 1.1 in: *Background Documents Supporting Climate Change Science Program Synthesis and Assessment Product 4.1*, J.G. Titus and E.M. Strange (eds.). EPA 430R07004. U.S. EPA, Washington, DC.

Titus, J.G., and D. Cacela. 2008. Uncertainty Ranges Associated with EPA's Estimates of the Area of Land Close to Sea Level. Section 1.3 in: Background Documents Supporting Climate Change Science Program Synthesis and Assessment Product 4.1: Coastal Elevations and Sensitivity to Sea Level Rise, J.G. Titus and E.M. Strange (eds.). EPA 430R07004. U.S. EPA, Washington, DC.

Titus, J.G., R. Jones, and R. Streeter. 2008. Maps that Depict Site-Specific Scenarios for Wetland Accretion as Sea Level Rises along the Mid-Atlantic Coast. Section 2.2 in: Background Documents Supporting Climate Change Science Program Synthesis and Assessment Product 4.1, J.G. Titus and E.M. Strange (eds.). EPA 430R07004. U.S. EPA, Washington, DC.

Titus, J.G. 2003 . "Does Sea Level Rise Matter to Transportation Along the Atlantic Coast?" In Department of Transportation Center for Climate Change and Environmental Forecasting, The Potential Impacts of Climate Change on Transportation. Washington, D.C. U.S. Department of Transportation 2003..

Titus, James G. and Vijay Narayanan. 1995. The Probability of Sea Level Rise. Washington, D.C.: U.S. Environmental Protection Agency. 197 pp.

Titus, J.G. (ed) Potential Impacts of Sea Level Rise on the Beach at Ocean City, Maryland. Washington, D.C.: Environmental Protection Agency.

Titus, James G (ed). 1990. Changing Climate and the Coast: Report to the Intergovernmental Panel on Climate Change from the Miami Conference on Adaptive Responses to Sea Level Rise and Other Impacts of Global Climate Change. (2 Volumes) Washington, D.C.: United Nations Environment Program, World Meteorological Organization, and U.S. Army Corps of Engineers, National Oceanic and Atmospheric Administration, and Environmental Protection Agency

Titus, James G. (ed). 1988. Greenhouse Effect, Sea Level Rise, and Coastal Wetlands. Washington, D.C.: Environmental Protection Agency.

Titus, James G. (ed) 1986. Effects of Changes in Stratospheric Ozone and Global Climate. (4 Volumes). Washington, D.C.: United Nations Environment Program and U.S. Environmental Protection Agency.

Hoffman, J.S., D. Keyes, and J. G. Titus. 1983. Projecting Future Sea Level Rise Washington, D.C.: Government Printing Office.

Barth, M.C. and J.G. Titus (eds). 1984. Greenhouse Effect and Sea Level Rise: A Challenge for This Generation. New York: Van Nostrand Reinhold.

Hull, C.H.J. and J.G. Titus (eds). 1986. Greenhouse Effect, Sea Level Rise, and Salinity in the Delaware Estuary. Washington, D.C.: Environmental Protection Agency and Delaware River Basin Commission. 88 pp.

Louisiana Wetland Protection Panel. 1987. Saving Louisiana's Coastal Wetlands: The Need for A Comprehensive Plan of Action. Washington, D.C.: Environmental Protection Agency.

Peer-Review Journal Articles

Titus, J.G., D.E. Hudgens, D.L. Trescott, M. Craghan, W.H. Nuckols, C.H. Hershner, J. M. Kassakian, C.J. Linn, P.G. Merritt, T.M. McCue, J.F. O'Connell, J. Tanski, and J. Wang. 2009. State and Local Governments Plan for Development of Most Land Vulnerable to Rising Sea Level along the U.S. Atlantic Coast, *Environmental Research Letters* 4 044008. (doi: 10.1088/1748-9326/4/4/044008).

Titus, J.G. and C Richman. 2001. "Maps of Lands Vulnerable to Sea Level Rise: Modeled Elevations along the U.S. Atlantic and Gulf Coasts." *Climate Research*. 18:205-228.

Titus, James G. and V. Narayanan. 1996. "The Risk of Sea Level Rise." Climatic Change. 33:151-212.

Titus, J.G. "Impacts of Sea Level Rise on Agriculture." HortScience. 1993.

Titus, James G. 1991. "Greenhouse Effect and Coastal Wetland Policy: How Americans Could Abandon an Area the Size of Massachusetts at Minimum Cost." Environmental Management. 15:1:39-58.

Titus, James G. 1990. "Greenhouse Effect, Sea Level Rise, and Barrier Islands." Coastal Management 18:1:65-90.

Titus, James G. 1990. "Strategies for Adapting to the Greenhouse Effect." Journal of the

American Planning Association 56:311-333.

Titus, James G. 1990. "Greenhouse Effect, Sea Level Rise, and Land Use." Land Use Policy. 90:138-153. (April)

Titus, James G. 1989. Impact of warming on sea level. *Forum for Applied Research and Public Policy*. 4: 4: 31-36. 1989

Titus, J.G., R. Park, S. Leatherman, R. Weggel, M. Greene, P. Mausel, M. Treehan, S. Brown, C. Gaunt, and G. Yohe. 1991. "Greenhouse Effect and Sea Level Rise: Loss of Land and the Cost of Holding Back the Sea." Coastal Management 19:171-204.

Titus, J.G., C.Y. Kuo, M.J. Gibbs, T.B. LaRoche, M.K. Webb, and J.O. Waddell. 1987. "Greenhouse Effect, Sea Level Rise, and Coastal Drainage Systems." Journal of Water Resources Planning and Management 113:2.

Titus, James G. 1986. "Greenhouse Effect, Sea Level Rise, and Coastal Zone Management." Coastal Zone Management Journal 14:3:147-71.

Scavia, D., J.C. Field, D.F. Boesch, R.W. Buddemeier, V. Burkett, D.R. Cayan, M. Fogarty, M.A. Harwell, R.W. Howarth, D.J. Reed, T.C. Royer, A.H. Sallenger, and J.G. Titus. 2002. "Climate Change Impacts on U.S. Coastal and Marine Ecosystems." Estuaries 25: 149-164.

Kobayashi, N., R.A. Dalrymple, T.W. Kana, C.Y. Kuo, W.G. McDougal, R.M. Sorensen, M.L. Thatcher, and J.G. Titus. 1992. "Effects of Sea Level Rise on Bays and Estuaries." Report of the ASCE Task Committee on Sea-Level Rise and Its Effects on Bays and Estuaries. Journal of Hydraulic Engineering. 118:1-1992.

Werbos, P.J. and J.G. Titus. 1979. "Predicting Conflict in Latin America using a Method Derived From Artificial Intelligence." IEEE Transactions on Man, Society, and Cybernetics. (Summer).

Law Journals

Titus, J.G. 1993. "Double Jeopardy" (Part I) in "Criminal Procedure Project". Georgetown Law Review.

Titus, J.G. 1998. "Rising Seas, Coastal Erosion and the Taking Clause: How to Save Wetlands and Beaches without Hurting Property Owners." Maryland Law Review 57:1277-1399

Titus, J.G. 2000. "Does the U.S. Government Realize that the Sea is Rising? How to Restructure Federal Programs so that Wetlands and Beaches Survive" *Golden Gate Law Review* 30:717-786.

Popular and Op-Ed.

Titus, J.G. 1998. "Windsurfing in a Warmer World" Windsurfing March, 1998.

Titus, J.G. 1997. "Fragile Beaches Being Replaced by Armored Shore: Rather than leave of Pump sand, residents are erecting sea walls." Baltimore Sun May, 25, 1997 at K-6.

Titus, J. 1997. "Goodbye to Our Beaches on the Bay". Washington Post. Outlook Section, May 18, 1997.

Environmental Protection Agency. 1997. The EPA Global Warming Web Site. Sections on impacts of climate change and the climate system.

Consensus Reports

Climate Change Science Program. 2009: *Coastal Sensitivity to Sea-Level Rise: A Focus on the Mid-Atlantic Region*. A report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. [James G. Titus (Coordinating Lead Author), K. Eric Anderson, Donald R. Cahoon, Dean B. Gesch, Stephen K. Gill, Benjamin T. Gutierrez, E. Robert Thieler, and S. Jeffress Williams (Lead Authors)]. U.S. Environmental Protection Agency, Washington D.C., USA, 320 pp.

Boesch, D., D. Scavia, J. Field, R. Buddenmeir, V. Burkett, D. Cayan, M. Fogarty, M. Hartwell, R. Howarth, C. Mason, L.J. Pietrafesa, D. Reed, T. Royar, A. Sallenger, M. Spranger, and J.G. Titus. 2000. *The Potential Consequences of Climate Variability and Change on Coastal Areas and Marine Resources*. Report of the Coastal Areas and Marine Resources Team, U.S. National Assessment, U.S. Global Change Research Program

D.S. Shriner, R.B. Street, R. Ball, D. D'Amours, K. Duncan, D. Kaier, A. Maaroug, L. Mortsch, P. Mulholland, R. Neilson, J. Patz, J. Scheraga, J.G. Titus, H. Vaughan, and M. Wetz. 1998. "North America." In R.T. Watson, M.C. Zinyowera, R.H. Moss (eds). The Regional Impacts of Climate Change. Report of the Intergovernmental Panel on Climate Change. London. Cambridge University Press.

A. Tsyban (USSR), J. Everett, and J. Titus. 1990. "World Oceans and Coastal Zones." In W.J. McG Tegart, G.W. Sheldon, and D.C. Griffiths (ed). Climate Change: The IPCC Impacts Assessment. Geneva: United Nations Environment Program and World Meteorological Organization.

Coastal Zone Management Subgroup, Intergovernmental Panel on Climate Change. 1990 Strategies for for Adaption to Sea Level Rise,

Global Climate Change and the Rising Challenge of the Sea. Report of the Coastal Zone Management Subgroup to the Intergovernmental Panel on Climate Change, Response Strategies Working Group. 1992.

Sea Level Rise, Southeast, and Policy Chapters in U.S. EPA, 1989, Report to Congress: The Potential Effects of Global Climate Change on the United States.

Dean, R.G. et al. 1987. Responding to Changes in Sea Level. National Academy Press: Washington, D.C. (EPA Liason).

Chapters in Books

Titus, James G., 2005. "Does Shoreline Armoring Violate the Clean Water Act?" Rolling Easements, Shoreline Planning , and Other Responses to Sea Level Rise. In: D.M. Whitelaw and G.R. Visgilio (eds). America's Changings Coasts: Private Rights and Public Trust. Cheltenham, UK: Edward Elgar.

Titus, James G. 1992. "The Costs of Climate Change to the United States." In: Majumdar, S.K., L.S. Kalkstein, B.M. Yarnal, E.W. Miller, and L.M. Rosenfeld (eds). Global Climate Change: Implications, Challenges and Mitigation Measures. Easton, Pa.: Pennsylvania Academy of Sciences.

Titus, J.G. "Regional Effects of Sea Level Rise." 1993. In Warrick, R.A., E.M. Barrow, and T.M.L. Wigley (eds) Climate and Sea Level Change. Cambridge and New York: Cambridge University Press.

Titus, James. "Preserving a Coastal Ecosystem." Short essay appearing in "Chapter 17: Carbon Dioxide, Global Climate Change, and Ozone Depletion" In Revelle, P. and C. Revelle The Global Environment: Securing a Sustainable Future. Boston and London: Jones and Bartlett Publishers.

Titus, James G., 1989. "Causes and Effects of Sea Level Rise.:" In Abrahamson, D.E. The Challenge of Global Warming. Washington, D.C.: Island Press

Titus, James G. 1984. "Planning for Sea Level Rise Before and After a Coastal Disaster." In: Barth and Titus (eds) op. cit.

Titus, James G. 1985. "Sea Level Rise and the Maryland Coast." In Potential Impacts of Sea Level Rise on the Beach at Ocean City.

Titus, James G. (1988) "Greenhouse Effect, Sea Level Rise, and Society's Response." In Devoy, R.J. Sea Surface Studies London: Croom-Helm.

Titus, J.G. 1990. "Greenhouse Effect and Sea Level Rise." In Herbich, J.B. (ed) Handbook of

Titus, James G. 1987. "The Cause and Effects of Sea Level Rise." in Wind, H.G. (ed) 1987. Impact of Sea Level Rise on Society Rotterdam: A.A. Balkema.

Field, J.C., Boesch, D.F., Scavia, D., Buddemeier, R., Burkett, V.R., Cayan, D., Fogerty, M., Harwell, M., Howarth, R., Mason, C., Pietrafesa, L.J., Reed, D., Royer, T., Sallenger, A., Spranger, M., and Titus, J.G., 2001. "Potential consequences of climate variability and change on coastal areas and marine resources," in Climate change impacts on the United States: the potential consequences of climate variability and change. Foundation report for the U.S. Global Change Research Program: Cambridge, UK, Cambridge University Press, p. 461-487, 604-608.

Proceedings and Miscellaneous.

Titus, James G.. "Maps that Depict the Business-as-Usual Response to Sea Level Rise in the Decentralized United States of America" In. **OECD Global Forum on Sustainable Development**. November 11-12, 2004. Paris: Organisation for Economic Co-operation and Development

Titus, J.G. 1999. "Rising Seas, Coastal Erosion, and the Takings Clause." *Coastlines: Information About Estuaries and Near Coastal Waters*. 9:6:

Titus, J.G. 1999. "Can We Save our Coastal Wetlands from a Rising Sea." 21:2:___ - ___.

Titus, J.G. and V. Narayanan. 1994. "Probability Distribution of Future Sea Level Rise." In Proceedings of the Margarita Island Conference on the Rising Challenge of the Sea. Washington, D.C.: IPCC and NOAA.

Titus, James. 1991. "A Tale of Land Loss in Louisiana." In Frassetto, R. (ed) Impact of Sea Level Rise on Cities and Regions. Venice: Marsilio Editori.

Titus, J.G. 1990. Policy Implications of Sea Level Rise: The Case of the Maldives. "Impacts of Sea Level Rise on the Maldives." In Shihab, H. (ed). Proceedings of the Small States Conference on Sea Level Rise. Male (Maldives): Department of Planning and Environment.

Hoffman, J.S., J. Wells, and J.G. Titus. 1986. "Future Global Warming and Sea Level Rise." In Bruun, Per (ed) Iceland Symposium '85 Reyjavik: National Energy Authority.

Titus, James G. 1985. "Sea Level Rise and the Maryland Coast." In Potential Impacts of Sea Level Rise on the Beach at Ocean City, Maryland. Washington, D.C.: Environmental Protection Agency.

Titus, James G. 1985. "Sea Level Rise and Wetlands Loss." In: Magoon, O. (ed) Coastal

Zone '85. New York: American Society of Civil Engineers.

Titus, James G. "Sea Level Rise and Ocean City Maryland." In Magoon, O. (ed) Coastal Zone '85. New York: ASCE.

Titus, James G. 1990. Four articles in Changing Climate and the Coast., op. cit.

Titus, J.G. T. Henderson, and J.M. Teal. 1984. "Sea Level Rise and Wetlands Loss in the United States." National Wetlands Newsletter. 6:4.

Titus, James G. 1988. Overview of the Implications of Sea Level Rise. In Topping, J. (ed) Proceedings of the First North American Conference on Climate Change. Washington, D.C.: Climate Institute.