

Gary T. Mitchum
Professor and Associate Dean

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Biographical Information

Education

1984 Ph.D., Florida State University, Physical Oceanography
1980 B.S. (magna cum laude), Florida State University, major in Physics with minor in Mathematics

Professional Experience

2012 - present Associate Dean and Professor, College of Marine Science, USF
2002 - 2012 Professor, Department (then College) of Marine Science, USF
1996 - 2002 Associate Professor, Department of Marine Science, USF
1996 - 2000 Affiliate faculty, Department of Oceanography, UH Manoa
1992 - 1996 Associate Researcher, Department of Oceanography, UH Manoa
1987 - 1992 Assistant Researcher, Department of Oceanography, UH Manoa
1985 - 1987 Postdoctoral Researcher at the UH Manoa with Klaus Wyrtki

Honors and awards

Listed as one of the Top 2% of Researchers in my field based on career citation rate (2021)
Outstanding Review Paper award, NOAA/ERL for McPhaden et al. (1998)
Honorable Mention, NMFS, Best paper in *Fishery Bulletin* for Polovina and Mitchum (1992)
1992 AGU Editor's Citation for Excellence in Refereeing
Florida State University Fellowship (1981-1982)
4-year National Merit Scholarship at the Florida State University
Honorary societies: Phi Beta Kappa, Phi Kappa Phi, Sigma Pi Sigma (Physics)

Selected Publications

- 2021 Zhu, Y., **G.T. Mitchum**, K.S. Doran, D.P. Chambers and X. Liang, Distinguishing between regression model fits to global mean sea level reconstructions. *Journal of Geophysical Research: Oceans*, **126**, e2021JC017347, <https://doi.org/10.1029/2021JC017347>.
- 2021 Thompson, P.R. , Matthew J. Widlansky, Benjamin D. Hamlington, Mark A. Merrifield, John J. Marra, **Gary T. Mitchum** and William Sweet, Rapid increases and extreme months in projections of United States high-tide flooding. *Nature Climate Change*, <https://doi.org/10.1038/s41558-021-01077-8>.
- 2021 Zhu, Y., **G.T. Mitchum**, P.R. Thompson and G.S.E. Lagerloef, Diagnosis of large-scale, low-frequency sea level variability in the northeast Pacific ocean. *Journal of Geophysical Research: Oceans*, **126**, e2020JC016682, <https://doi.org/10.1029/2020JC016682>.
- 2019 Wang, M., C. Hu, B. Barnes, **G. Mitchum**, B. Lapointe, and J. Montoya, The great Atlantic Sargassum belt. *Science*, **365** (9448), 83-87, <https://doi10.1126/science.aaw7912>.
- 2018 Nerem, R.S., B.D. Beckley, J.T. Fasullo, B.D. Hamlington, D.S. Masters, and **G.T. Mitchum**, Climate-change-driven accelerated sea level rise detected in the altimeter era. *Proc. Natl. Acad. Sci. USA*, **115**(9), 2022-2025, <https://doi.org/10.1073/pnas.1717312115>.

- 2017 **Mitchum, G.**, Dutton, A., Chambers, D. P., and Wdowinski, S., Sea level rise. In E. P. Chassignet, J. W. Jones, V. Misra, and J. Obeysekera (Eds.), *Florida's climate: Changes, variations, & impacts* (pp. 557–578). Gainesville, FL: Florida Climate Institute. <https://doi.org/10.17125/fci2017.ch19>.
- 2017 Beckley, B.D., P.S. Callahan, D.W. Hancock III, **G.T. Mitchum**, and R.D. Ray, On the “Cal-Mode” Correction to TOPEX Satellite Altimetry and Its Effect on the Global Mean Sea Level Time Series, *JGR-Oceans*, **122**, <https://doi.org/10.1002/2017JC013090>.
- 2016 Liu, Yonggang, R. Weisberg, S. Vignudelli, and **G.T. Mitchum**, Patterns of the Loop Current System and Regions of Sea Surface Height Variability in the Eastern Gulf of Mexico Revealed by the Self-Organizing Maps, *JGR-Oceans*, **121**, 2347-2366, doi:10.1002/2015JC011493.
- 2016 Hine, Albert C., Don P. Chambers, Tonya D. Clayton, Mark R. Hafen, and **Gary T. Mitchum**, *Sea Level Rise in Florida: Science, Impacts, and Options*, University Press of Florida.
- 2014 Thompson, P., **G.T. Mitchum**, Coherent Sea Level Variability on the North Atlantic Western Boundary. *J. Geophys. Res. Oceans*, **119**, 5676-5689, doi:10.1002/2014JC009999.
- 2014 Liu, Y., R.H. Weisberg, S. Vignudelli, **G.T. Mitchum**, Evaluation of Altimetry-Derived Surface Current Products Using Lagrangian Drifter Trajectories in the Eastern Gulf of Mexico. *J. Geophys. Res. Oceans*, **119**, 2827-2842, doi:10.1002/2013JC009710.
- 2013 Thompson, P., **G.T. Mitchum**, C. Vonesch and J. Li, Storminess Changes in the Southeastern United States during the 20th Century. *J. Climate*, **26**, 9713-9726.

Selected Professional Service

National

- 2021 - present SECOORA Executive Committee
 2021 - present SECOORA Board of Directors
 2020 - present Author on the Southeast Chapter of the Fifth National Climate Assessment
 2020 - present Member of the Advisory Committee for the NSF Geosciences Directorate
 2019 - present USF representative to SECOORA
 2014 - present Member of NASA Sea Level Change Science Team

International

- 2011 - present Member, WMO-IOC JCOMM Observation Coordination Group
 2011 - present Chair of the Global Sea Level Observing System (GLOSS) Group of Experts
 2011 - present President of the IUGG/IAPSO Commission on Mean Sea Level and Tides
 2001 - present Steering committee member, Pilot Project for TIGA under the IGS Governing Board
 2000 - present IERS Working Group on ITRF Datum, ITRF2000 Sub-group
 1997 - present IGS/PSMSL Technical Committee on Tide Gauge Positioning
 1996 - present Permanent Service for Mean Sea Level (PSMSL) Advisory Group