

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.

Selected Publications, focused on recent and high impact papers, out of about 85 refereed papers total

- 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://doi.org/10.1126/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>.
- 2014 Thompson, P., **G.T. Mitchum**, Coherent Sea Level Variability on the North Atlantic Western Boundary. *J. Geophys. Res. Oceans*, **119**, 5676-5689, <https://doi.org/10.1002/2014JC009999>.
- 2000 **Mitchum, G.T.**, An improved calibration of satellite altimetric heights using tide gauge sea levels with adjustment for land motion. *Marine Geodesy*, **23**, 145-166.
- 1998 **Mitchum, G.T.**, Monitoring the stability of satellite altimeters with tide gauges. *J. Atmos. Oceanic Tech.*, **15**, 721-730.
- 1996 Ray, R., and **G.T. Mitchum**, Surface manifestation of internal tides generated near Hawaii. *Geophys. Res. Lett.*, **23**, 2101-2104.

Extramural Funding

At the University of Hawaii from 1990 (earlier data not available) to 1995
\$7M for 9 projects

At the University of South Florida from 1996 to present
\$16M for 31 projects, but note that this includes about \$11M obtained in my role as Associate Dean that benefited the College as a whole rather than my own research program

Scientific Meetings, Workshops, etc., 1996 through 2019

Please note that these statistics include all meetings where I was author or co-author of a talk, and the same is true for the statistics of the number of talks and the number of invited talks. Additional details can be provided if desired.

For these 24 years, there were 155 meetings (6.5/year), 260 presentations (10.8/year), and 109 (4.5/year) were invited.

Service

Given the purpose of this short CV I have decided to focus on Service activities at the local, national and international levels, and I have also selected activities that specifically concern support of data collection and dissemination. Please note that this a highly abridged list of service activities and additional detail can be provided if desired.

Local to State

2018 - present Member, Advisory Committee for Florida A&M University Center for Water Resources
2018 - present USF/CMS representative on GCOOS Regional Association
2016 - present CIMAS Fellow
2014 - present Member, Tampa Bay Climate Science Advisory Panel
2012 - present USF representative on Florida Climate Institute Executive Board
2012 - 2017 Pinellas County Sea Grant Advisory Committee
2014 - 2015 Member, St. Petersburg Pier Selection Committee
2014 - 2014 Organized a Sea Level Rise Workshop on behalf of the City of St. Petersburg as part of Blue Ocean
2014 - 2014 Consultant on Climate Change and Sea Level Rise for St. Petersburg Downtown Waterfront Master Plan

National

2018 - present Organizing Committee for US CLIVAR workshop on Sea Level Changes along US East Coast
2011 - 2011 Committee member for the GCOOS-RA plan for Water Level Measurements
2009 - 2010 Review panel member for NASA Gulf of Mexico Climate Change program
2000 - 2003 Associate Editor, Journal of Physical Oceanography
1996 - 1997 Science Steering Group for NOAA/NOS Sea Level Observations
1996 - 1997 Organizing Committee for IGS/JPL Workshop on Tide Gauge Benchmarks
1995 - 1995 NOAA/NOS Global Sea Level Task Force
1993 - 1994 NOAA/NESDIS Advisory Panel for Information Management Project
1991 - 1992 NOAA/NOS Advisory Panel for Global Sea Level Project
1988 - 1990 U.S. WOCE Sea Level Implementation Panel (Chair)
1987 - 1989 U.S. WOCE Data Management Working Group

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
1996 - present Permanent Service for Mean Sea Level (PSMSL) Advisory Group
2013 - 2017 WCRP CLIVAR Atlantic Implementation Panel
2008 - 2009 Organizer, IOC Workshop on Precise Vertical Motion Estimates at Tide Gauges
2005 - 2007 Member, NOAA/NPOES Altimeter Operational Algorithm Team
2005 - 2006 Steering committee, WCRP/JSC Sea Level Rise Workshop
2005 - 2006 Guest editor, Global sea level portion of Proceedings of Dynamic Planet 2005, Springer-Verlag
2003 - 2006 Steering committee member, IAG Planning Group for an International Altimeter Service
2003 - 2004 Chair, Local Organizing Committee for CLIVAR/GODAE/OSTST meeting in Nov 2004
2000 - 2004 IERS Working Group on ITRF Datum, ITRF2000 Sub-group
2000 - 2004 CLIVAR Ocean Observations Panel (ex officio member representing GLOSS)
1988 - 1989 International WOCE Data Management Panel

Community

Testimony in Tallahassee before Senator Tom Lee's committee concerning sea level rise (October, 2019)
Meeting in Tallahassee with the state's Chief Resiliency Officer, the DEP Secretary and the Science Officer to discuss the need for a Florida Climate Assessment (October, 2019)
Panelist for St. Pete Chamber of Commerce Leadership Coastal Environmental Summit (May 2019)
Invited member of Coastal Resiliency Workshop with Florida DEP Secretary Noah Valenstein (June 2018)
Panelist for St. Pete Chamber of Commerce Leadership Coastal Environmental Summit (May 2018)
Briefing on sea level rise acceleration for the St. Petersburg Mayor Kriseman and staff (March 2018)
Speaker at Sustainability Summit sponsored by the St. Petersburg chapter of the League of Women Voters (September 2017)
Invited member of Flood Insurance Roundtable with Congressman Crist (May 2017)
Presentation about Sea Level Rise in Sea Grant Workshop on Planning and Law for Local Governments (May 2017)
Speaker at City of St. Petersburg Sustainability Summit (April 2017)