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# ESSIC

PARTICIPATING COLLEGES:

## Earth System Science Interdisciplinary Center

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## Antonio J. Busalacchi

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### Professor & Director



#### Contact

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**Phone:** +1 301 405 5599

**Primary College/Department:** CMNS-Atmospheric & Oceanic Science

**Office Location:** M-Square Research Park

**Building:** 950

**Room#:** 4097

**Website:** <http://essic.umd.edu>
**Employer:** University of Maryland

#### Biography

ANTONIO J. BUSALACCHI, JR., is Director of the Earth System Science Interdisciplinary Center (ESSIC) and Professor in the Department of Atmospheric and Oceanic Science and at the University of Maryland. He also chairs the University of Maryland Council on the Environment. Antonio J. Busalacchi received his Ph.D. degree in oceanography from Florida State University in 1982. He began his professional career that year at the NASA/Goddard Space Flight Center. He has studied tropical ocean circulation and its role in the coupled climate system. His interests include the development and application of numerical models combined with in situ and space-based ocean observations to study the tropical ocean response to surface fluxes of momentum and heat. His research on climate variability and predictability has supported a range of international and national research programs dealing with global change and climate, particularly as affected by the oceans. In 1991, he was appointed as Chief of the NASA/Goddard Laboratory for Hydrospheric Processes, and member of the Senior Executive Service. In year 2000, he was selected as the founding director of ESSIC at the University of Maryland. Dr. Busalacchi has been involved in the activities of the World Climate Research Program (WCRP) for many years and currently is chair of the Joint Scientific Committee that oversees the WCRP. He previously was co-chair of the scientific steering group for its subprogram on Climate Variability and Predictability. He has served extensively on National Academy of Science/National Research Council (NAS/NRC) activities, including as Chair of the Climate Research Committee and the Committee on Earth Science and Application: Ensuring the Climate Measurements from NPOESS and GOES-R, as co-chair of the Committee on National Security Implications of Climate Change on U.S. Naval Forces, and as a member of the Committee on Earth Studies, Institute of Medicine Committee on the Effect of Climate Change on Indoor Air Quality and Public Health, and Committee on Assessing the Impacts of Climate Change on Social and Political Stresses. Dr. Busalacchi currently serves as chair of the NRC's Board on Atmospheric Sciences and Climate and he also serves on the Committee on the Assessment of NASA's Earth Science Program. In 2013 he was elected as "Chair-Elect" of the American Association for the Advancement of Science (AAAS) "Section W" on Atmospheric and Hydrospheric Sciences as well as being elected as a Trustee to the University Corporation for Atmospheric Research (UCAR) Board of Trustees; both terms to begin in 2014. Professor Busalacchi has received numerous awards and honors. Among these, in 1991, he was the recipient of the prestigious Arthur S. Flemming Award, as one of five outstanding young scientists in the entire Federal Government. In 1995 he was selected as Alumnus of the Year at Florida State University, in 1997 he was the H. Burr Steinbach Visiting Scholar at Woods Hole Oceanographic Institution, in 1999 he was awarded the NASA/Goddard Excellence in Outreach Award and the Presidential Rank Meritorious Executive Award. He is a Fellow of the American Meteorological Society (AMS), the American Geophysical Union (AGU), the American Association for the Advancement of Science (AAAS), and in 2006 was selected by the AMS to be the Walter Orr Roberts Interdisciplinary Science Lecturer. As part of his broader professional interests Busalacchi builds on his family background and also provides a broad range of consulting services including wine education, wine list and wine program consulting, and viticultural weather and climate forecasting services, nationally and abroad via [www.VinoVeritasLLC.com](http://www.VinoVeritasLLC.com).

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## People

### Teaching

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AOSC 680: Introduction to Earth System Science

**Research Interests**



Tropical ocean circulation and its role in the coupled climate system.

The development and application of numerical models combined with in situ and space-based ocean observations to study the tropical ocean response to surface fluxes of momentum and heat.

**Education**

Florida State University, B.S., Physics (Magna Cum Laude), 1977; M.S., Oceanography, 1980; Ph.D., Oceanography, 1982

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