



Professor Victor Vytautas Klemas

Foreign Member of the Lithuanian Academy of Sciences since 2007

Victor V. Klemas is professor emeritus in the University of Delaware's (UD) College of Earth, Ocean, and Environment. He was born in 01 09 1934, in Klaipeda, Lithuania. He received a doctorate in optical physics from the University of Braunschweig in Germany and joined the UD faculty in 1971. He directed UD's Applied Ocean Science Program from 1981-98 and he has co-directed UD's Center for Remote Sensing for more than 30 years.

Experience

Professor, Marine Studies, University of Delaware (1979-Emeritus)
Director, Applied Ocean Science Program, University of Delaware (1981-98)
Director, Center for Remote Sensing, University of Delaware (1975-present)
Manager, SEED Program, National Science Foundation (1977-78)
Associate Professor, Marine Studies, University of Delaware (1971-79)
Research Fellow, University of Braunschweig (1963-65)
Optical Physicist/Systems Engineer, GE Valley Forge Space Center (1963-70)
1st Lieutenant, US Army Signal Corps (1959-61)

Research Interests

Studies of coastal ecosystems and processes using advanced remote sensing techniques.
Investigations of wetland health, estuarine pollution and coastal dynamics.
Remote sensing of global environmental change.

Membership on National Research Council Panels (National Academy of Sciences)

Space Studies Board, *Committee on International Programs* (1996-2000)
Space Studies Board, *Committee on Earth Studies* (1989-92; 1996-99)
Marine Board, *Committee on Nautical Charts and Information* (1992-94)
Ocean Studies Board, *Panel on NOAA Coastal Ocean Program* (1990-93)
Space Applications Board (1984-89)
Ocean Policy Committee, *MTAG* (1980-82)

Commission on Natural Resources, *CORSPERS* (1977-80)

Professional Activities and Honors (selected)

Honorary Doctor, Klaipeda University, Lithuania (2013)

Organizer, US/EU Baltic Sea Symposia (2004 - present)

NASA HypIRI Aquatic Data Working Group (2012-present)

NOAA/NASA Coastal Ocean Applications and Science Team (2004-2008)

Fulbright Senior Specialist to teach at European Universities (2006, 2009)

Foreign Member, Lithuanian Academy of Sciences (2007 –present)

USGS Global Change Program Evaluation Panel (2003)

NOAA/NERRS Land Use/Habitat Change Advisory Panel (2002-2005)

Editorial Boards: *Journal of Coastal Research*, *Wetlands*, *Geocarto International*,
Sensor Review, *Rem. Sens. of Environment*, *Wetlands Ecology and Management*

Principal Investigator on 32 coastal research projects in 7 countries.

Consultant to USGS, EPA, NASA, NOAA, USACE, UNESCO

Lecturer or program chair at 78 international conferences and workshops

Member, AGU, ASPRS, and IEEE Oceanic Engineering Society

Country Lecturer, SITMAR Cruise Lines (1987-88).

He has served on six scientific committees of the National Research Council and received a number of awards, including, in November 2010, the Science Prize of the Republic of Lithuania. The honor recognized his lifetime achievements in applying remote sensing and other advanced techniques to study coastal ecosystems.

Professor Klemas has also been active in helping Lithuania's Klaipeda University to develop advanced coastal oceanography programs by teaching Fulbright courses and inviting other U.S. scientists to do the same. With colleagues from Denmark, Sweden, Finland, and Russia, Klemas has also been a key organizer of the U.S./European Union Baltic Sea symposia, which have attracted speakers and participants from more than 20 countries.

Selected Publications (selected from 395 published articles)

Klemas, V. (2013). Remote sensing of wetland biomass: An overview. *Journal of Coastal Research*, 29, 1016-1028.

Klemas, V. (2013). Using remote sensing to select and monitor wetland restoration sites: An overview. *Journal of Coastal Research*, 29, 958-970.

Klemas, V. (2013). Airborne remote sensing of coastal features and processes: An overview. *Journal of Coastal Research*, 29, 239-255.

Klemas, V. (2012). Remote sensing and navigation in the animal world. *Sensor Review*, 33, 3-13.

Huang, J. and Klemas, V. (2012). Using remote sensing of land cover change in coastal watersheds to predict downstream water quality. *Journal of Coastal Research*, 28, 930-944.

Klemas, V. (2012). Remote sensing of coastal and ocean currents: An overview. *Journal of Coastal Research*, 28, 576-586.

Klemas, V. (2012). Remote sensing of ocean internal waves: An overview. *Journal of Coastal Research*, 28, 540-546.

- Klemas, V. (2012). Remote sensing of coastal plumes and ocean fronts: Overview and case study. *Journal of Coastal Research*, 28, 1-7.
- Klemas, V. (2012) Remote sensing of algal blooms: An overview with case studies. *Journal of Coastal Research*, 28, 34-43.
- Purkis, S. and Klemas, V. (2011) *Remote Sensing and Global Environmental Change*. Wiley-Blackwell, Oxford, U.K. 384 pp.
- Klemas, V. (2011). Remote sensing of sea surface salinity: An overview with case studies. *Journal of Coastal Research*, 27, 830-838.
- Klemas, V. (2011). Remote sensing of wetlands: Case studies comparing practical techniques. *Journal of Coastal Research*, 27, 418-427.
- Klemas, V. (2011). Remote sensing techniques for studying coastal ecosystems: An overview. *Journal of Coastal Research*, 27, 2-17.
- Klemas, V. (2011). Beach profiling and lidar bathymetry: An overview with case studies. *Journal of Coastal Research*, 27, 1019-1028.
- Klemas, V. (2010). Tracking oil slicks and predicting their trajectories using remote sensors and models: Case studies of the Sea Princess and Deepwater Horizon oil spills. *Journal of Coastal Research*, 26, 789-797.
- Klemas, V. (2009). The role of remote sensing in predicting and determining coastal storm impacts. *Journal of Coastal Research* 25 (6): 1264-1275.
- Klemas, V. (2009). Sensors and Techniques for Observing Coastal Ecosystems. In X. Yang (Editor), *Remote Sensing and Geospatial Technologies for Coastal Ecosystem Assessment and Management*. Springer Verlag, Berlin.
- Jiang, L., X-H. Yan and V. Klemas (2009). Remote sensing for the identification of coastal plumes: case studies of Delaware Bay. *International Journal of Remote Sensing*, 30, 2033-2048.

The information is based on a personal file and
<http://www1.udel.edu/udaily/2013/jun/klemas-doctorate-062813.html>
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