

CURRICULUM VITAE

EMMANOUIL N. ANAGNOSTOU

**NORTHEAST UTILITIES ENDOWED CHAIR PROFESSOR
IN ENVIRONMENTAL ENGINEERING**

Department of Civil and Environmental Engineering
University of Connecticut
Storrs, CT 06269-2037, USA

MARCH, 2013

Education:

Ph.D.	1997	<i>Hydrometeorology</i> , University of Iowa, Civil and Environmental Engineering.
M.S.	1994	<i>Hydrometeorology</i> , University of Iowa, Civil and Environmental Engineering.
B.S.	1990	<i>Hydrology, Hydraulics & Water Resources</i> , National Technical University of Athens, Civil and Environmental Engineering.

Work Experience:

2012-	<u>Director</u> , Environmental Engineering Program, School of Engineering, University of Connecticut
2010-	Northeast Utilities <u>Endowed Chair</u> in Environmental Engineering, Civil and Environmental Eng., University of Connecticut
2009	<u>Professor</u> , Civil and Environmental Eng., University of Connecticut
2008	<u>United Technologies Corporation Professor of Engineering Innovation</u> , School of Engineering, University of Connecticut
2007-2010	<u>Marie Curie Excellence Team Leader</u> , Hellenic Center for Marine Research, Greece
2005-2006	<u>Visiting Researcher</u> , Hellenic Center for Marine Research, Greece
2003-2008	<u>Associate Professor with Tenure</u> , Civil & Env. Eng., Univ. of Connecticut
1999-2003	<u>Assistant Professor</u> , Civil & Env. Eng., Univ. of Connecticut
1999-2002	<u>Adjunct Scientist</u> , National Observatory of Athens, Greece
1998-1999	<u>Visiting Researcher</u> , Dep. of Agric. Engineering, Univ. of Padova, Italy
1997-1999	<u>Visiting Scientist</u> , Laboratory for Atmospheres, GSFC, NASA
1992-1997	<u>Research Assistant</u> , Iowa Institute of Hydraulic Research, Univ. of Iowa

Professional Societies:

Connecticut Academy of Science and Engineering (CASE)
 American Geophysical Union (AGU)
 American Society of Civil Engineers (ASCE)
 American Water Resources Association (AWRA)
 American Meteorological Society (AMS)
 Hellenic Society of Civil Engineers, Professional Engineer

Areas of Research Interest:

- Understanding coupled water-human dynamics in developing regions for improving water security and climate adaptation
- Advancing hydrometeorological hazards prediction through optimal integration of models with remotely sensed data

- Uncertainty characterization of global rainfall estimates from merged earth orbiting and geostationary satellite sensor retrievals
- Development of advanced techniques for estimation of rainfall and precipitation microphysics from high-frequency dual-polarization weather radar
- Long-range detection of lightning and applications in regional quantitative precipitation estimation and forecasting.
- Development of underwater acoustic sensors for quantification of meteorological parameters (rain, wind, fluxes) and detection of anthropogenic and biological activities (ship and marine mammals) at sea

Major Honors & Awards:

- 2011 *Exelence in Research Award* by the University of Connecticut Alumni Association
- 2010 Inducted member of the *Connecticut Academy of Science and Engineering*
- 2010 *Northeast Utilities Foundation Endowed Chair* in Environmental Engineering, University of Connecticut
- 2008 *United Technologies Corporation Professorhip of Engineering Innovation*, School of Engineering
- 2007 *Marie Curie Excellence Team Leader*, funded by the European Union (Marie Curie Excellence Grant) to create a transnational research team aimed at conducting interdisciplinary research on the predictability of water and energy cycle.
- 2005 *Marie Curie Excellence Award*, this EU award is reserved for five top outstanding scientists doing research in any area supported by EU and had received a Marie Curie training fellowship in the early years of their career.
- 2003 *Outstanding Junior Faculty Award*, by the School of Engineering of the University of Connecticut for achievements in research and education.
- 2002 *EGU Plinius Medal*, from the European Geophysical Union. This medal is reserved for excellent young scientists with outstanding achievements in a field related to Natural Hazards, with important interdisciplinary activity in two or more fields related with this topic and whose research has been on the mitigation of natural risks.
- 2002 *NSF CAREER Award*, awarded by the Geosciences program of National Science Foundation for proposal entitled "Improved knowledge on precipitation microphysics for advancing radar rainfall estimation and quantitative precipitation forecasting". This is a highly competitive multi-year award aiming the support of faculty with high potential in the beginning of their professional career.
- 1999 *NASA New Investigator Award*, awarded by NASA Earth Science Directorate for proposal entitled "Understanding the Error Characteristics of Precipitation Estimates from Space-Based Observing Systems." Competition for this multi-year award is high and open to all earth scientists and engineers nationwide being at an early stage (six years from Ph.D.) of their professional careers.

1998 *Marie Curie Post-Doctoral Fellowship*, awarded by the Environment and Climate Program of the Commission of the European Community for proposal entitled “Rainfall-Runoff Modeling as Basis for Radar-Rainfall Validation Studies.” This highly competitive two-year award was to support research conducted by ENA as visiting researcher at the University of Padova.

Major Relevant Activities:

- 2012-current Advisory Board, European Meteorological Satellites program (EUMETSAT).
- 2012 Best Advisor Award by the School of Engineering, University of Connecticut
- 2010 Guest co-Editor, Journal of Hydrology-Special Issue on Flash Floods
- 2008-current Associate Editor, *Journal of Hydrology*
- 2009 Guest co-Editor, Atmospheric Research-Special Issue on Precipitation
- 2007-current Member of the International Committee on Earth Observation Satellites (CEOS)
- 2008-current Member of the European Geophysical Union Hydrologic Sciences Committee
- 2007 Major advisor of best student (E. Serpetzoglou) paper award from AGU Hydrology Section (Fall meeting 2007)
- 2006-current Member of NASA’s *Precipitation Measurement Mission (PMM) Science Team*
- 2005 Major advisor of the 2005 University of Connecticut School of Engineering outstanding Ph.D. thesis award (to Dr. Faisal Hossain)
- 2005 Major advisor of best student (R. Knox) paper award from AGU Hydrology Section (Fall meeting 2005)
- 2004-current Member of the AGU Hydrology Committee
- 2004 NASA New Investigator Program panelist.
- 2003 Science team member of proposal submitted to the European Space Agency proposing the European contribution to the Global Precipitation Mission (EGPM).
- 2002-2005 Organizer of the “Global Precipitation Measurement and Hydro-meteorological Extremes” session of the European Geophysical Union annual meeting.
- 2002 Chair of the “Floods” Working Group at NASA’s Global Precipitation Measurement (GPM) planning workshop at Greenbelt, MD.

- 2001 Member of the Organizing Committee of the 7th International Conference on Precipitation.
- 2000-2004 Associate Editor in the *Journal of Applied Meteorology*.
- 2000 Chair of the Radar Observations Session of the TRMM Field Campaigns Workshop, May 22-26, 2000, Salt Lake City, Utah.
- 2000 *Research Initiative Award*, awarded by the School of Engineering of the University of Connecticut for proposal entitled "Assessing the Potential of a New Weather Radar Technology in Improving Flood-Forecasting Accuracy".
- 1999-2004 Appointed member of NASA's *Tropical Rainfall Measuring Mission* (TRMM) Science Team.
- 1999 *Special Achievement Award*, awarded by the Civil & Env. Engineering Department of the University of Connecticut for achievements in research and education in the 1998-99 academic year.
- 1996 *Outstanding Student Paper Award*, awarded by the AGU's Spring Meeting Hydrology Session.
- 1995 *Universities Space Research Association and NASA scholarship* awarded to participate at the 1995 Graduate Student Summer Program.
- 1990 Registered Professional Engineer (P.E.), Athens, Greece.

Professional Services

Reviews for Granting Agencies:

National Science Foundation - Hydrologic and Atmospheric Sciences programs

NASA, Earth Sciences - New Investigator Program (peer review panel)
 Earth Science Fellowship Program
 Tropical Rainfall Measuring Mission program
 Precipitation Measurement Mission
 Global Energy and Water Cycle program

NOAA - Office of Global programs

Europe - FP6 and FP7 Environment program
 Marie Curie Program
 Israel Science Foundation
 Austrian Science Foundation
 The Science Foundation of The Netherlands
 Swiss Science Foundation

Reviews for International Journals:

- Advances in Water Resources,

- ASCE Journal of Hydrologic Engineering,
- Bulletin of the American Meteorological Society
- Canadian Journal of Remote Sensing,
- Computers and Geosciences,
- EOS, AGU Transactions,
- Geophysical Research Letters,
- Hydrologic Processes Journal,
- International Journal of Lightning,
- IEEE-Transaction of Geosciences and Remote Sensing,
- Journal of Geophysical Research-Atmospheres,
- Journal of Applied Meteorology,
- Journal of Atmospheric Sciences,
- Journal of Atmospheric and Oceanic Technology,
- Journal of Hydrometeorology,
- Journal of Environmental Systems,
- Monthly Weather Review,
- Meteorological Applications,
- Non-Linear Processes in Geophysics,
- Quarterly Journal of Royal Meteorological Society,
- Remote Sensing of Environment,
- Surveys in Geophysics,
- Water Resources Research,
- Weather and Forecasting

Editorships:

Associate Editor, Journal of Hydrology, 2008 - current
 Associate Editor, Journal of Applied Meteorology, 2000 – 2004
 Guest co-Editor, Journal of Hydrology, Special Issue on Flash Floods, 2010
 Guest co-Editor, Atmospheric Research, Special Issue on Precipitation, 2009

Organization of Sessions in international conferences:

- Co-chair of the 2014 Weather Radar and Hydrology Conference organizing comitee
- Steering committee of the 5th International Precipitation Conference, June 30-July 4 2001, Maine USA
- Convener of the Global Precipitation Measurement and Hydrometeorological Extremes session of the 2003 EGU/AGU Joint Assembly
- Convener of the Global Precipitation Measurement and Hydrometeorological Extremes session of the 2004 EGU General Assembly

- Convener of the Global Precipitation Measurement and Hydrometeorological Extremes session of the 2005 EGU General Assembly
- Convener of the Global Precipitation Measurement and Hydrometeorological Extremes session of the 2006 EGU General Assembly
- Convener of NH1.01 “Satellite Remote Sensing Applications in Hydrometeorology, Water Cycle, and Flood Forecasting” session of the 2007 EGU General Assembly
- Co- convener of H21E: Rain Gage-Radar (NEXRAD) Rainfall Data Relationships: Emerging Data Quality Issues, Concepts, and Applications for Hydrologic Modeling session of 2007 AGU Fall Meeting, San Francisco
- Convener of IS24 - HS2.4/NP3.10 “Precipitation: from measurement to modeling and application in catchment hydrology” session of the 2008 EGU General Assembly

Keynote Lectures, Invited Presentations & Seminars:

Keynote lectures

1. Keynote presentation at the National Climate Change Conference organized by the State Hydrometeorological Service of Moldova, June 15-17, 2010, Chisinau, Moldova
2. “Satellite and in situ observations in HyMEX” **Keynote presentation**, 3rd HyMeX International Workshop, Heraklion, Crete, June 1-4 2009
3. “Extreme Weather Events” **Keynote lecture**, Cyprus Meteorological Association and Ministry of Education Prizes Ceremony, Nicosia-Cyprus, 10 April 2008.
4. “Advancing high-frequency precipitation monitoring through combined use of satellite IR with long-range lightning network observations,” **keynote presentation**, Brazilian Meteorological Conference, 29 August 2004.
5. “Real-time multi-sensor based rainfall monitoring and its implications on advancing flood forecasting accuracy.” **Plinius Medal lecture**, 2002 EGU General Assembly, Nice, France, April 21, 2002.
6. “Global rainfall monitoring from multiple space based platforms and long-range ground sensor lightning measurements.” **Keynote presentation**, 5th International Precipitation Conference, June 30-July 4, 2001, Maine, USA.

Invited presentations at international conferences

7. “The Use of Satellite Rainfall for the Prediction of Floods in Mountainous Basins” **Invited presentation**, 2012 AGU Fall Meeting, San Francisco, 3-7 December, 2012
8. “Using high-resolution satellite rainfall products to nowcast major flash-flood inducing storms” **Invited presentation**, 2010 AGU Fall Meeting, San Francisco, 13-17 December, 2010
9. “A framework for studying optimal satellite rain retrievals in hydrologic applications”, 2007 EGU General Assembly, **Invited presentation**, Vienna, 15-20 April, 2007

10. "Lightning as an Indicator of Tropical Cyclogenesis in African Easterly Waves" **Invited presentation**, 2006 AGU Fall meeting, December 11-15, 2006. San Francisco, CA, USA
11. "Improving Convective Precipitation Forecasting through Assimilation of Regional Lightning Measurements in a Mesoscale Model", **invited presentation**, 2003 AGU Fall Meeting, San Francisco Dec 3-10 2003.
12. "Radar rainfall estimation uncertainty and its implications on flood prediction accuracy." **Invited presentation**, 2nd Plinius Conference on Mediterranean Storms, Siena, Italy, 2000.
13. "On the ground-based radar calibration problem." **Invited presentation** at the 2000 EGU General Assembly, Nice, France, April 2000.
14. "The role of WSR-88D in TRMM research." **Invited presentation** at the WSR-88D workshop of NCDC, December 2-3, 1999.

Seminars and lectures

15. "Flash Floods: Understanding the Runoff Generation Processes and the Use of Satellite-Rainfall in Hydrologic Simulations", Invited seminar presentation at the **National Severe Storms Laboratory** of NOAA and the University of Oklahoma, Norman, OK, February 2011
16. "Flash Floods: Understanding the Runoff Generation Processes and the Use of Satellite-Rainfall in Hydrologic Simulations", Invited seminar presentation at the **National Center for Atmospheric Research**, Boulder, Colorado, March 2011
17. "Real-Time Radar Rainfall Estimation from WSR-88D", **Seminar** at South Florida Water Management District, West Palm Beach, 20 Nov 2006.
18. "Advanced Topics in Remote Sensing", **Invited Lectures** at the University of Sao Paolo, Department of Astronomy and Atmospheric Sciences, 24 October to 7 November 2005.
19. "A framework for studying optimal satellite rain retrievals in hydrologic applications", **seminar**, NASA-GSFC, 7 June 2004.
20. "Satellite Rainfall Estimation: Challenges and Hydrologic Applications," **seminar**, MIT, 3 May 2004.
21. "Quantitative satellite based precipitation estimation: An overview on merging algorithms and validation techniques", **seminar**, Hellenic Center for Marine Research, 7 January 2004.
22. "Overland precipitation estimation from TRMM microwave observations." **Seminar** presented at the Institute of Atmospheric Physics of the Italian Research Council, Rome, Italy, 2000.
23. "On the use of satellite data for monitoring precipitation in semi-arid climatic regions." **Seminar** at the Institute of Meteorology and Hydrology of the state of Ceara (FUNCEME), Brazil, August 20-25, 1999.
24. "A satellite infrared technique for diurnal rainfall variability studies." **Seminar** presented at MIT, January 1999.
25. "On the use of real-time radar rainfall estimates for rainfall-runoff prediction in mountainous basins." **Seminar** presented at the Office of Hydrology, National Weather Service, November 1998.

26. "Remote Sensing Rainfall Estimation and Applications." **Seminar** presented at the Civil and Environmental Engineering Department of the University of Connecticut, May 1998.
27. "Real-Time Radar-Rainfall Estimation and Validation." **Seminar** presented at the School of Meteorology of the University of Oklahoma, April 1998.
28. "Development of Precipitation Climatologies over the Amazon Region Using SSM/I Data." **Seminar** presented at the Water Resources Department of Georgia Institute of Technology, November 1997.
29. "Mean-Field Radar Rainfall Bias Studies for NEXRAD." **Seminar** presented at the Office of Hydrology, National Weather Service, May 1996.
30. "Radar Rainfall Estimation With Quantification of Estimation Uncertainty." **Seminar** presented at NASA, Goddard Space Flight Center, May 1996.

Teaching and Advising Experience

Master's Degree Advising (with thesis):

Current Advising: 2 Total completed to date: 9

Ph.D. Advising:

Current Advising: 7 Total completed to date: 10

Post Docs Supervised:

Dr. Mircea Grecu (1999-2002), Dr. Khil Ha Lee (2003-04), Dr. Themis Chronis (2004-2006), Dr. Marios Anagnostou (2007-08), Dr. Clement Alo (2009-10), Dr. Juan Stella (2010-11)

List of Current Post Doctoral Associates:

none

List of Current UConn Ph.D. Advisees:

Xinxuan Zhang, Started Fall 2012

Dimitrios Stampoulis, Started Fall 2009

Hojjat Seyyedi, Started Fall 2010

Muhammet Dis, Started Fall 2011

Maria Frediani, Started Fall 2011

Yiwen Mei, Started Fall 2012

David Wanik, Started Spring 2013

List of Current UConn M.S. Advisees:

Di Wu, Started Fall 2011

Eric Buckley, Started Fall 2011

List of Current International Advisees:

Mr. Efthymios Serpetzoglou (Aristotelian University of Thessalonica), Started Fall 2009

List of Graduated Ph.D. Advisees:

Viviana Maggioni, Graduated Spring 2012 (*NASA graduate student Fellow*)

Thesis Title: The Effect of Rainfall Error Characterization on the Efficiency of a Land Data Assimilation System for Soil Moisture Prediction

Currently: Post Doctoral Associate, University of Maryland

Efthymios Nikolopoulos, Graduated Spring 2010 (*NASA graduate student Fellow*)

Thesis Title: Flash Floods: Understanding the Runoff Generation Processes and the Use of Satellite-Rainfall in Hydrologic Simulations (*School of Engineering Best PhD Thesis Award*)

Currently: Marie Curie Fellow at the University of Padova, Italy

Shah Alamgir (international co-advisor), Graduated Spring 2009 (INRS- ETE, University of Québec, Canada).

Thesis Title: Characterization and Estimation of Rainfall in Bangladesh based on Ground Radar and Satellite Observations

Currently: Research Fellow at INRS-ETE, Canada

Alemu Tadesse, Graduated Fall 2007. (*NASA graduate student Fellow*)

Thesis Title: Spatio-temporal characteristics of deep convection in the tropics using satellite data and continuous long-range lightning observations.

Currently: Research Associate at National Center for Atmospheric Research, USA

Marios Anagnostou, Ph.D., Graduated Fall 2006.

Thesis Title: The use of X- and S-band polarimetric radar in monitoring variations in precipitation microphysical structure

Currently: Marie Curie Fellow at the University of Rome, Italy

Dagang Wang, Ph.D., Graduated Spring 2007 (*NASA graduate student Fellow*)

Thesis Title: Towards a Better Representation of Land-Atmosphere Interactions: Integrating Sub-Grid Precipitation Variability Inferred From Observations With Models.

Currently: Water Resources Engineer, Dewberry Goodkind Inc.

Tufa Dinku, Ph.D., Graduated Summer 2005 (*NASA graduate student Fellow*)

Thesis Title: Use of TRMM Precipitation Radar for Calibrating Overland Passive Microwave Rain Retrieval.

Currently: Senior Research Associate at IRI, Columbia University, USA

Faisal Hossain, Ph.D., Graduated Summer 2004.

Thesis Title: Investigating Error Propagation in Flood Prediction Based on Remotely Sensed Rainfall. (*School of Engineering Best PhD Thesis Award*)

Currently: Associate Professor, Tennessee Technological University, USA

Themis Chronis, Ph.D., Graduated Summer 2004 (*NASA graduate student Fellow*)

Thesis Title: Continuous lightning monitoring from a long-range receivers network: Applications on satellite precipitation estimation and quantitative precipitation forecasting.

Currently: Research Scientist at the Hellenic Center for Marine Research, Greece

Carlos Morales, Ph.D., Graduated Fall 2001

Thesis Title: Continuous thunderstorm monitoring from combination of satellite infrared and long-range lightning observations.

Currently: Associate Professor at the University of Sao Paulo, Brazil

List of M.S. Advisees with Thesis Option:

Yiwen Mei, Graduated Summer 2012

Thesis Title: Rainfall Organization and Geomorphologic Controls on the Flood Response of Mild-slope Basins in the Southeast US

David Wanik, Graduated Fall 2012

Thesis Title: Weather-Based Damage Prediction Models for Electric Distribution Networks

Xinxuan Zhang, Graduated Summer 2012

Thesis Title: Using NWP Analysis in Satellite Rainfall Estimation of Heavy Precipitation Events over Complex Terrain

Muhhamet Dis, M.S., Graduated Summer 2011.

Thesis Title: Hydrological Analysis of an Urban Basin in Sub-Tropical Environment

Ryan Knox, M.S. (co-advised with Prof. Ogden), Graduated Summer 2004.

Thesis Title: Scaling Relationships in High-Resolution Radar Hydrology

Sandrine Baun (co-advised with Prof. Bagtzoglou), M.S., Graduated Summer 2004.

Thesis Title: Improvement of hydrologic time inversion method using stabilization and optimization

Alemu Tadese, M.S., Graduated Summer 2004.

Thesis Title: A Statistical Approach to Ground Radar Rainfall Estimation

Tufa Dinku, M.S., Graduated Fall 2001

Thesis Title: Improving radar based estimation of rainfall over complex terrain.

Neeraj Agarwal, M.S., Graduated Summer 2001

Thesis Title: Investigating improvements in precipitation classification from ground based weather radar observations.

List of Post Docs:

Dr. Mircea Grecu, appointment period 1999-2002, current position NASA Scientist, Goddard Space Flight Center

Dr. Khil Ha Lee, appointment period 2003-2004, current position unknown.

Dr. Themis Chronis, appointment period 2004-2006, Marie Curie Fellow at University of Padova

Dr. Marios Anagnostou, appointment period Dec 2006 to Jan 2008, Research Scientist, National Observatory of Athens

Dr. Clement Alo, appointment period Jan 2009 to Jul 2010, Assistant Professor, Montclair University

Dr. Juan Stella, appointment period Oct 2010 to May 2012, current position unknown.

List of International Advisees:

Matteo Zampieri, appointment period July 2009 to July 2010, Marie Curie Excellence Team Research Fellow, Hellenic Center for Marine Research

Liliana Velea, appointment period Jan 2009 to Dec 2010, Marie Curie Excellence Team Research Fellow, Hellenic Center for Marine Research

Maria Tzortziou, appointment period Jan 2008 to Dec 2010, Marie Curie Excellence Team Research Fellow, Hellenic Center for Marine Research

Paolo Tarolli, appointment period June 2010 to Dec 2010, Marie Curie Excellence Team Research Fellow, Hellenic Center for Marine Research

Teaching Load at the University of Connecticut: 2 courses/year

Graduate Courses: Probabilistic Methods in Environmental Systems
Hydrometeorology
Remote Sensing
Quantitative Methods in Environmental Engineering

Undergraduate Courses: Engineering Hydrology
Fluid Mechanics
Environmental Modeling
Hydraulic Engineering
Civil Engineering Systems
Decision Analyses in Civil & Environmental Engineering

Research Projects

US funds: Lead PI in 29 active and completed grants (over \$7,500,000 of personal funds) and in 3 pending multi-PI proposals (over \$3,500,000). The grants are presented below:

1. Calibration of Ground-Based Weather Radar Systems From TRMM Space-Based Radar Observations: A Demonstration Project, Tropical Rainfall Measuring Mission-NASA, Single P.I.: E.N. Anagnostou, \$340,000 (1/1/1999 – 12/31/2001).
2. Understanding the Error Characteristics of Precipitation Estimates from Space-Based Observing Systems, New Investigator Program-NASA, Single P.I.: E.N. Anagnostou, \$327,000 (10/1/1999-9/30/2002).
3. Rainfall Remote Sensing, NASA EPSCoR Preparation Grant Proposal, thrust area 4 - Remote sensing, PI of Remote Sensing of Rainfall research topic, \$10,000 (9/1/99-5/1/01).
4. Investigating the Adequacy of TRMM Precipitation Radar Observations for Calibrating Ground-Based Weather Radar Reflectivity Measurements, NASA-Tropical Rainfall Measuring Mission, Single P.I.: E.N. Anagnostou, \$375,000 (1/1/2001-12/31/2003).
5. Assessing the Potential of a New Weather Radar Technology in Improving Flood Forecasting Accuracy, School of Engineering-Research Initiative Award, University of Connecticut, Single P.I.: E.N. Anagnostou, \$20,000 (2/1/00-12/31/00).
6. Experimental Investigation of X-band Polarimetric-Radar Rainfall Estimation for Support of High-Resolution Hydrologic Predictions, Faculty Large Research Grant Program, Research Foundation, Single P.I.: E.N. Anagnostou, \$18,800 (8/1/00-9/1/01).
7. Experimental Investigation of X-band Polarimetric-Radar Rainfall Estimation, NSF-Geosciences, E.N. Anagnostou (50% co-PI), \$146,313 (9/1/00-9/1/01).
8. Assimilation of TRMM-calibrated rainfall data derived from infrared sensors in DAO's global model, NASA/GSFC, \$32,207 (11/1/00-8/31/01).
9. Deployment of a mobile polarimetric X-band radar and in situ instrumentation to support QPE and microphysical studies of tropical systems in CAMEX-4, Earth Sciences-NASA, Single P.I.: E.N. Anagnostou, \$360,231 (6/1/01 – 5/31/04).
10. A real-time risk-based highway accident prevention system (RiskHAPS): A proactive safety approach, MIT-New England University Transportation Center (USDOT), E.N. Anagnostou (10% co-PI), \$63,390 (9/1/01 – 8/31/02).
11. Investigation of Thunderstorm Monitoring from an Experimental Sferics Receiver Network, NASA Earth System Science Fellowship, PI E.N. Anagnostou (awarded student: Mr. Themis Chronis), \$74,000 (9/1/01-8/31/04).

12. Investigation of Flood Prediction from Satellite Data, NASA Earth System Science Fellowship, PI E.N. Anagnostou (awarded student: Mr. Faisal Hossain), \$74,000 (9/1/02-8/31/05).
13. Better understanding of the spatio-temporal characteristics of deep convection in the tropics using satellite data and continuous long-range lightning observations, Earth Sciences-NASA, P.I.: E.N. Anagnostou, (awarded student: Mr. Alemu Tadesse), \$74,000 (9/1/04-8/31/07).
14. Multi-Sensor Precipitation Estimation and Investigating Improvements on Weather and Climate Analysis, Earth Sciences-NASA, Single P.I.: E.N. Anagnostou, \$242,000 (1/1/02-12/31/04).
15. CAREER: Improved knowledge on precipitation microphysics for advancing radar rainfall estimation and quantitative precipitation forecasting, NSF-Geosciences, Single P.I.: E.N. Anagnostou, \$420,000 (3/1/02 – 12/1/06).
16. WCP: Continuous and High-Resolution Thunderstorm Monitoring in Africa and Beyond to Support Water Cycle Research, NSF-Water Cycle Program, Single P.I.: E.N. Anagnostou, \$331,234 (03/03-02/06).
17. Collaborative Research: Spatial Averaging of Oceanic Rainfall Variability Using Underwater Sound, NSF-Physical Oceanography, E.N. Anagnostou (UConn PI at 39%), \$570,436 (03/03-02/06).
18. Cyclones from Africa: The Transition of African Easterly Waves from Continent to Ocean, NASA-AMMA, PI E.N. Anagnostou, \$120,000 (06/2006 – 06/2007)
19. Defining Optimality Criteria for the Effective Use of Satellite Precipitation Datasets in Land Surface Hydrology and Water Cycle Studies, NASA-Precipitation Measurement Mission, P.I.: E.N. Anagnostou, (Co-PI Bagtzoglou, 20%), 01/2007 – 01/2010, \$432,070
20. Estimation of precipitation and sea surface parameters from passive microwave satellite observations and continuous assimilation in the POSEIDON oceanographic system, European Investment Bank (sub-contract to OCEANOR SA, Norway), P.I.: E.N. Anagnostou, \$397,000 (6/1/06 – 12/31/08).
21. Understanding the Use of Satellite Rainfall in Flood Prediction for Complex Terrain Basins, NASA, PI E.N. Anagnostou, 09/2007 – 09/2010, \$84,000
22. Investigation of Satellite QPE and Hydrologic Validation in Complex Terrain Basins, NASA, PI E.N. Anagnostou, 3/2010-2/2013, \$450,000

23. Investigating the impact of improved model error characterization on the assimilation of remotely sensed soil moisture in a land data assimilation system, NASA, PI E.N. Anagnostou, 09/2009-08/2012, \$90,000
24. Collaborative Research: Rainfall estimation accuracy and classification from deep underwater sound measurements, NSF, PI E.N. Anagnostou, 09/2009-08/2012, \$210,702
25. The Ethiopian-U.S. Partnership in Sustainable Water Resources: Capacity Building in Education, Research and outreach, USAID, co-PI (30%) Anagnostou, 12/2010-12/2012, \$1,100,000
26. Weather Based Damage Prediction Model for Northeast Utilities Infrastructure, Northeast Utilities, PI E.N. Anagnostou, 03/2012-02/2013, \$88,872
27. NU Center of Excellence on Storm Hazards Mitigation & Power System Resilience: A 2-yr Demonstration Activity, Northeast Utilities, PI E.N. Anagnostou, 03/2013-05/2015, \$1,830,000
28. Performance Assessment of Satellite Rainfall Data for Hydrologic Modeling of Northern Hydrologic Regimes, FM Global, P.I. Anagnostou, 08/2012-12/2013, \$41,159
29. Use of ground-validation data to evaluate and improve uses of satellite-rainfall in hydrologic modeling of complex terrain basin processes, NASA, 3/2013-2/2016, \$370,000
30. Fostering uptake of hydrologic predictions to improve human security in Ethiopia, Belmont Forum and G8 Research Councils Initiative, P.I. E.N. Anagnostou, 09/2013 – 08/2016, \$1,700,000 (**pending**)
31. CNH: Integrating Social and Hydro-Climatic Dynamics to Enhance Human Security in Ethiopia, NSF, P.I. E.N. Anagnostou, 08/2013-8/2018, \$1,498,027 (**pending**)
32. Collaborative research: Understanding hydrometeorological processes with flash floods from a mobile observatory, NSF, P.I. E.N. Anagnostou, 08/2013-07/2016, \$361,172 (**pending**)

European Union funds: Lead PI in five completed grants (total of over 2,200,000 Euros) from the FP6 and FP7 EU programs routed through the Hellenic Center for Marine Research (HCMR) and in one pending proposal (540,000 Euros) submitted to the FP7 program. The grants are presented below:

1. Advancing the predictability of water cycle through an improved understanding of land surface and coastal water processes and optimal integration of models with observational data, EU Marie Curie Excellence Grant, Team Leader and Scientist in Charge: E.N.

Anagnostou, 1,400,000 Euros from EU and 300,000 Euros match from the Hellenic General Secretariat for Research and Technology (01/01/07 – 31/12/2010).

2. Hydrometeorological data resources and technologies for effective flash flood forecasting (HYDRATE), EU 4th Call of the Energy, Environment and Sustainable Development Programme—STREP Project, HCMR Scientist in Charge: E.N. Anagnostou, 170,000 Euros from EU and 80,000 match from the Hellenic General Secretariat for Research and Technology (1/6/2006-31/5/2009)
3. Joint assimilation of satellite aerosol, cloud, and precipitation observations in numerical models to support climate and hydrologic applications, Marie Curie Re-Integration Grant, Marie Curie Fellow: Dr. Mircea Grecu, Scientist in Charge: E.N. Anagnostou, 100,000 Euros and 20,000 match from the Hellenic General Secretariat for Research and Technology (1/5/2008-4/30/2012)
4. Advancing understanding of carbon cycling and coloured dissolved organic matter dynamics in European wetlands & coastal ecosystems through integration of observations and novel modelling approaches, Marie Curie Re-Integration Grant, Marie Curie Fellow: Dr. Maria Tzortziou, HCMR Scientist in Charge: E.N. Anagnostou, 100,000 Euros and 20,000 match from the Hellenic General Secretariat for Research and Technology (1/5/2008-30/4/2012)
5. Acoustic Monitoring of Marine Rainfall, Marie Curie International Incoming Grant, Scientist in Charge: E.N. Anagnostou (Marie Curie Fellow: Dr. Jeff Nystuen), 201,000 Euros from EU and 40,000 match from the Hellenic General Secretariat for Research and Technology (1/9/2009-31/8/2011)
6. Global Earth Observation for integrated water resource assessment (Earth2Observe), EU FP7 ENV.2013.6.3-3 call—collaborative project, ITC Inc. Scientist in Charge: E.N. Anagnostou, 540,000 Euros ITC share (**pending**).

International Advising Services

1. To the National Observatory of Athens, Greece, for the design and research implementation of a mobile hydrometeorological observatory. Jan 1999 to Dec of 2001.
2. To the Town of Simsbury, Connecticut, for conducting expert statistical assessment of the soil remediation sampling program proposed by a residential developer, Jun to July of 2000.
3. To Binet Inc., Oklahoma, for the development of a polarimetric radar rainfall estimation algorithm, January – September 2000.
4. To Resolution Displays Inc., Virginia, for the development of an optimization algorithm to be used in lightning detection from a network of VLF radio receivers, June to December 2000.
5. To Electronic Enterprise Corporation EEC, Alabama, for the development of rainfall algorithms for a newly developed re-deployable X-band system, 2002-03.
6. To Norton Engineering, Connecticut, for a hydrologic/hydraulic design study associated with a major housing development in West Hartford, Connecticut, 2003-05.
7. To South Florida Water Management District, Florida, for the development of a radar rainfall estimation algorithm for use of the National Weather Service radar network measurements in the District's water management system, 2006-07 & 2008-09.
8. To Ethiopian Meteorological Services, Addis Ababa, for the implementation of a weather radar nowcasting system in Addis Ababa, 2006-07.
9. To the Hellenic Center for Marine Research, Athens, for the POSEIDON system, 2005-06.
10. To the Cyprus Meteorological Services, for the design and acquisition of two X-band Dual-Polarization radars, 2008-9
11. To South Florida Water Management District, Florida, for the implementation of real-time flood warning system for the C-11 basin, 2011-12.

Journal Peer-Reviewed Publications:

* Advisee or post-doctoral associate

Published, accepted or in press (Citations – All years: non-self citations=1993, h-index=28, i10-index=51 | Since 2008 (past 5 years): non-self citations=1119, h-index=18, i10-index=43)

1. Anagnostou, E.N., C. Morales, C. Pathak, 2013: Use of Storms Life Cycle Information and Lightning Data in Radar-Rainfall Estimation, ASCE-J of Hydrologic Engineering, Vol. 18, No. 2, pp. 168-174
2. Anagnostou, M., J. Kalogiros, F. S. Marzano, E. N. Anagnostou, M. Montopoli, and E. Picciotti, 2013: Performance evaluation of a new dual-polarization microphysical algorithm based on long-term X-band radar and disdrometer observations, Journal of Hydrometeorology, doi: <http://dx.doi.org/10.1175/JHM-D-12-057.1>
3. Kalogiros, J., M. N. Anagnostou, E. N. Anagnostou, M. Montopoli, E. Picciotti, F. S. Marzano, 2013: Correction of Polarimetric Radar Reflectivity Measurements and Rainfall Estimates for Apparent Vertical Profile in Stratiform Rain, Journal of Applied Meteorology and Climatology, doi: <http://dx.doi.org/10.1175/JAMC-D-12-0140.1>
4. Kalogiros, J., M. N. Anagnostou, E. N. Anagnostou, M. Montopoli, E. Picciotti, and F. S. Marzano, 2013: Evaluation of a new Polarimetric Algorithm for Rain-Path Attenuation Correction of X-Band Radar Observations Against Disdrometer Data, IEEE Transactions on Geoscience and Remote Sensing (accepted)
5. Kalogiros, J., M. N. Anagnostou, E. N. Anagnostou, M. Montopoli, E. Picciotti, and F. S. Marzano, 2013: Optimum Estimation of Rain Microphysical Parameters from X-Band Dual-Polarization Radar Observables, IEEE Transactions of Geoscience and Remote Sensing, doi: 10.1109/TGRS.2012.2211606
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