

CURRICULUM VITAE

PERSONAL DATA

Name : Ioannis A. Kalogiros
Born : January 21th, 1967, Greece
Nationality : Greek
Present position : Senior Researcher
Office Address : National Observatory of Athens,
Institute of Environmental Research and
Sustainable Development,
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EDUCATION

Ph.D., Department of Physics, Division of Applied Physics, National and Kapodistrian University of Athens, 1997
Dissertation title: "*Development of methods and algorithms for the study of the structure of the lower atmosphere using acoustic sounders*"

M.Sc. in Meteorology, Department of Physics, Division of Applied Physics, National and Kapodistrian University of Athens, 1991
Thesis title: "*Differential measurement and correlation of the humidity and temperature turbulence fields*"

B.Sc., Diploma in Physics, Department of Physics, National and Kapodistrian University of Athens , 1989
Thesis title: "*Study and improvement of atmospheric instability indices*"

PROFESSIONAL RECORD

Employment Record

2002-present : Researcher in the National Observatory of Athens, Institute of Environmental Research and Sustainable Development, Athens, Greece.

2000-2002 : Research Associate in the Department of Meteorology, Naval Postgraduate School, Monterey, USA.

1998 -2000 : Research Assistant in the Laboratory of Meteorology, Division of Applied Physics, Department of Physics, National and Kapodistrian University of Athens, Athens, Greece.

- 1997 : Teaching Assistant, Laboratory of Aerodynamics, Hellenic Air Force Academy, Athens, Greece.
- 1991 - 1996 : Research and Teaching Assistant, Division of Applied Physics, Department of Physics, National and Kapodistrian University of Athens, Athens, Greece.

Scholarships

- 1991 - 1995 : National and Kapodistrian University of Athens scholarship, Athens, Greece.

Participation in Scientific Organizations and Reviewer

American Meteorological Society, Royal Meteorological Society.

Reviewer in many peer review journals like: Journal of Atmospheric and Oceanic Technology, Journal of Applied Meteorology and Climatology, Atmospheric Research, Journal of Hydrology, Atmospheric Measurement Techniques, Journal of Geophysical Research - Oceans, International Journal of Atmospheric Sciences, Journal of Climatology, Remote Sensing, International Journal of Remote Sensing Letters, Transactions on Geoscience and Remote Sensing, Advances in Atmospheric Sciences, Atmosphere, Atmospheric Chemistry and Physics, Atmospheric Measurement Techniques, Sensors, Water Resources Research.

RESEARCH ACTIVITIES

Research Experience and Interests

- Atmospheric Boundary Layer: structure structure of the atmospheric turbulence, stability effects, similarity theory, turbulence closure, entrainment, micrometeorology.
- Marine Atmospheric Boundary Layer: atmospheric processes within clouds, coastal effects, interaction with local atmospheric flows.
- Thermally and topographically induced circulations over complex terrain: sea breeze and katabatic flows development and characteristics.
- Air Pollution meteorology and transfer of pollutants: atmospheric conditions favoring air pollution episodes, local flows effect.
- Precipitation systems structure and development using weather radar: rain microphysics, rainfall estimation and flood forecasting applications.
- Instrumentation: slow and fast response in-situ meteorological sensors, aircraft measurements, ground based remote sensors (acoustic sounder, RASS, weather radar), data acquisition hardware and software.

Expertise in various computing environments (in terms of hardware, operating systems, networks, graphics subsystems etc.) and code development in Matlab, C/C++, Fortran, Assembly, Basic.

Research Projects (Principal Investigator or Participation)

- 2022-2026 : "Study of the Structure of the Coastal Atmospheric Boundary Layer and EM/EO Propagation", Cooperative Agreement Grant, Naval Supply Systems Command, Basic and Applied Scientific Research, USA, NOA budget 150k\$.
- 2018-2021 : "Ionian-Adriatic early warning monitoring system (i-ALARMS)", INTERREG IPA II Cross-Border Cooperation Program Greece-Albania 2014-2020, European Union, NOA budget 75k€.
- 2017-2020 : "THE SPIA II - Thesis of Comprehensive and Integrated Methodologies and Tools for Monitoring, Management and Forecasting of Environmental Parameters and Pressures", IERSD/NOA, financed by the Operational Program "Competitiveness, Entrepreneurship and Innovation" under the NSRF 2014-2020, Greek General Secretariat for Research and Technology, Greece and the European Union.
- 2017 : "Survey and conservation of seabirds in Greece", cooperation with the Hellenic Ornithological Society and "NCC Environmental Studies" company for survey of birds migration with weather radar, LIFE program.
- 2013-2016 : "Improving our understanding of wave-air-sea interaction in the marine boundary layer", Cooperative Agreement Grant, Naval Supply Systems Command, Basic and Applied Scientific Research, USA, in the framework of Coupled Air Sea Processes and Electromagnetic Ducting Research (CASPER) project, Naval Postgraduate School, Office of Naval Research, USA, NOA budget 120k\$.
- 2013-2014 : "HyMeX-Hydrological cycle in the Mediterranean Experiment-research program", funded by the Centre National de la Recherche Scientifique, France, NOA budget 11k€.
- 2013-2014 : "Use of Ground-Validation data to evaluate and improve uses of satellite-rainfall in hydrologic modeling of complex terrain basin floods", subcontract from the University of Connecticut, in the framework of NASA project, USA, NOA budget 19.4k€.
- 2012-2014 : "HYDRO-X, Advancing hydrometeorological uses of X-band dual-polarization radar", in the framework of the "Education and Lifelong Learning" program, funded by the EU-European Social Fund and Greek Ministry of Education and Religious Affairs, Greece, NOA budget 128k€.
- 2012-2014 : "Archimedes III, Development and evaluation of a high resolution atmospheric urban canopy model for energy applications in structured areas", Technological Education Institution of Western Macedonia, funded by the Greek Ministry of Education and Religious Affairs, Greece, NOA budget 5.8k€.
- 2011-2012 : "Analysis of aircraft atmospheric measurements during DYNAMO project for coupled model improvement", subcontract from the Naval Postgraduate School, funded by the Office of Naval Research, USA, NOA budget 40k\$.

- 2011 : "AEGEAN-GAME: Aegean pollution, gaseous and aerosol airborne measurements", in the framework of the European Facility for Airborne Research (EUFAR) program, National and Kapodistrian University o Athens, Greece.
- 2009-2011 : "Integrated advanced distributed system for hydro-meteorological monitoring and forecasting using low-cost high-performance X-band mini-radar and cellular network infrastructures (HYDRORAD)", European Commission, 7th European Union RTD Framework, NOA budget 238k€.
- 2010 : "Water Predictability and Water Cycle (PREWEC)", subcontract from the Hellenic Centre for Marine Research, Marie Curie Excellence Grant funded under the EU Sixth Framework Programme, NOA budget 10k€.
- 2008-2011 : "Shipboard measurements of surface flux and near surface profiles and surface flux parameterization", subcontract from the Naval Postgraduate School, funded by Office of Naval Research, USA, NOA budget 75k\$.
- 2008-2009 : "Flood zoning in Southeast Attica using gauge calibrated radar rainfall and advanced modeling techniques (FLADAR)", European Commission, Marie Curie FP7 IRG, subcontract from the National Technical University of Athens, School of Civil Engineering, Laboratory of Hydrology and Water Resources Development, NOA budget 5k€.
- 2007-2008 : "A pilot scheme for the use of high-resolution X-band mobile polarimetric radar (XPOL) and its application for the autonomous Province of Trento", funded by Department of Civil Protection and Safeguarding of the Territory Autonomous Province of Trento, Italy, NOA budget 9.5k€.
- 2006-2007 : "HYDRATE: Hydrometeorological data resources and technologies for effective flash flood forecasting", 6th Framework Program for Research, Technological Development and Demonstration Specific Targeted Research or Innovation Projects, European Union, NOA budget 29.4k€.
- 2004-2008 : "Understanding near-surface and in-cloud turbulent fluxes in the coastal stratocumulus-topped boundary layers", subcontract from the Naval Postgraduate School, funded by the Office of Naval Research, USA, NOA budget 130k\$.
- 2004 : "Ionian Sea Rainfall Experiment", subcontract from the University of Connecticut, in the framework of National Science Foundation project, USA, NOA budget 165k€.
- 2004-2005 : "Advanced Techniques of Environmental Measurements and Forecasts, Human Networks", IERSD/NOA, funded by the General Secretariat for Research and Technology, Greece.
- 2003-2004 : "Operational support of Hellenic National Meteorological Service from the National Observatory of Athens in the framework of Athens 2004 Olympic Games", IERSD/NOA, funded by the General Secretariat of Olympic Games, Greece.
- 2002-2003 : "Improvement of forecast of atmospheric and climatic parameters in local and regional scales in East Mediterranean-Improvement of

- precipitation forecast", IERSD/NOA, in the framework of Networks of Excellence program, funded by the General Secretariat for Research and Technology, Greece.
- 2002-2003 : "Observational study of the interaction between atmosphere and ocean", cooperation with Naval Postgraduate School, in the framework of Coupled Boundary Layer Air-Sea Transfer (CBLAST) project, funded by the Office of Naval Research, USA.
- 2000-2002 : "Systematic evaluation of surface flux and boundary layer parameterizations in mesoscale models in high-winds conditions", Japan East Sea (JES) project of the Naval Postgraduate School, funded by the National Science Foundation and Office of Naval Research, USA.
- 2000-2002 : "Understanding the evolution of stratocumulus clouds in the coastal region", Development and Evolution of Coastal Stratocumulus (DECS) project of the Naval Postgraduate School, funded by the National Science Foundation, USA.
- 1999-2000 : "Development and experimental operation of an acoustic sounder-RASS station in Athens, Greece", National and Kapodistrian University of Athens, funded by the Greek Ministry of Environment, City Planning and Public Works, Greece.
- 1999-2000 : "HIPPODAMUS: A WWW Based Expanded Learning Environment", National and Kapodistrian University of Athens, funded by the program "Schools for the Implementation of Experimental Educational Projects" of the Greek Pedagogical Institute, under the Educational and Initial Vocational Training Operational Program of the Greek Department of Education and the European Union, Greece.
- 1998-2000 : "Cross boundaries air pollution transport over large distances and development of control infrastructure", National and Kapodistrian University of Athens, funded by the Greek Ministry of Environment, City Planning and Public Works, Greece.
- 1998-1999 : "Application of the acoustic sounder to the study of atmospheric parameters that control air pollution dispersion: estimation of the strength of temperature inversions", National and Kapodistrian University of Athens internal project, Greece.
- 1998 : "Study of the vertical structure of ozone in the area of Saronikos Gulf, Greece", National and Kapodistrian University of Athens, funded by the Greek Ministry of Environment, City Planning and Public Works, Greece.
- 1994-1995 : "Study of the effect of the operation of the new Airport at Spata and the Airport at Hellinikon, Greece, on the air quality at the greater Athens area", National and Kapodistrian University of Athens, funded by the "Athens Airport S.A.", Greece.
- 1994-1995 : "Study of katabatic flows and turbulent features generated in areas with strong topographical relief", National and Kapodistrian University of Athens, funded by the Greek General Secretariat for Research and Technology, Greece.
- 1993-1994 : "Experimental study of the vertical heat and momentum turbulent fluxes and the height of the Convective Boundary Layer over

- Athens basin", internal project National and Kapodistrian University of Athens internal project, Greece.
- 1992-1994 : "South European Cycles of Air Pollution (SECAP)", National and Kapodistrian University of Athens, funded by the European Union, Directorate General XII.
- 1992-1993 : "Study of the Saronikos Gulf sea breeze using acoustic sounder", National and Kapodistrian University of Athens, funded by the MED-POL European program, Greek Ministry of Environment, City Planning and Public Works, Greece.
- 1991-1993 : "Experimental and numerical study of the Atmospheric Boundary Layer in Athens basin, simulation of the atmospheric and air pollutants circulation during air pollution episodes", National and Kapodistrian University of Athens, funded by the PENED 89 program, Greek General Secretariat for Research and Technology, Greece.

TEACHING EXPERIENCE

Hellenic Air Force Academy: 1997

Teaching Assistant:

- Experimental Aerodynamics courses

National and Kapodistrian University of Athens: 1991 - 1995

Teaching Assistant:

- Experimental Physics courses
- Experimental Meteorology

Supervision of under-graduate, Msc, PhD and post-graduate student theses in the National and Kapodistrian University of Athens, Greece, and Harokopio University of Athens, Greece and advisor of student theses in the Department of Meteorology, Naval Postgraduate School, USA.

LIST OF PUBLICATIONS

Publications in international peer-review journals:	57
Announcements in international conferences:	127
Citations by others:	>500

Publications in International Refereed Journals and Book Chapters

1. Varlas, G., M. Anagnostou, C. Spyrou, A. Pappa, A. Mentzafou, A. Papadopoulos, J. Kalogiros, P. Katsafados, and S. Michaelides (2021): "Multiplatform hydrometeorological analysis of a flash flood event", Book chapter in *Precipitation Science: Measurement, Remote Sensing, Microphysics and Modeling*, Ed. M. Silas, 689-741, ISBN: 978-0-12-822973-6.
2. Wang, Q., R. T. Yamaguchi, J. A. Kalogiros, Z. Daniels, D. P. Alappattu, H. Jonsson, O. Alvarenga, A. Olson, B. J. Wauer, D. G. Ortiz-Suslow, and H.

- J.Fernando (2021): "Microphysics and optical attenuation in fog: observations from two coastal sites", *Boundary-Layer Meteorol.*, DOI: 10.1007/s10546-021-00675-5.
3. Portalakis., P., M. Tombrou, J. Kalogiros, A. Dandou, and Q. Wang (2021): "Investigation of air-sea turbulent momentum flux over the Aegean Sea with a wind-wave coupling model", *Atmosphere*, 12, 1208, DOI: 10.3390/atmos12091208.
 4. Derin, Y., M. A. E. Bhuiyan, E. Anagnostou, J. Kalogiros and M. N. Anagnostou (2021): "Modeling level 2 passive microwave precipitation retrieval error over complex terrain using a nonparametric statistical technique", *IEEE Transactions on Geoscience and Remote Sensing*, 59, 11, 9021-9032, DOI: 10.1109/TGRS.2020.3038343.
 5. Ortiz-Suslow, D.G., J. Kalogiros, R. Yamaguchi, and Q.Wang (2021): "An Evaluation of the constant flux layer in the atmospheric flow above the wavy air-area interface", *JGR: Atmospheres*, DOI: 10.1029/2020JD032834.
 6. Papangelis, G., M. Tombrou, and J. Kalogiros (2021): "The Saharan convective boundary layer structure over large scale surface heterogeneity: A large eddy simulation study", *Atmos. Res.*, DOI: 10.1016/j.atmosres.2020.105250
 7. Methymaki, G., E. Bossioli, J. Kalogiros, G. Kouvarakis, N. Mihalopoulos, A. Nenes, and M. Tombrou, (2020): "Aerosol absorption over the Aegean Sea under northern summer winds", *Atmos. Env.*, 231, DOI: 10.1016/j.atmosenv.2020.117533
 8. Spyrou, C., Varlas, G., Pappa, A., Mentzafou, A., Katsafados, P., Papadopoulos, A., Anagnostou, M.N., Kalogiros, J., (2020): Implementation of a nowcasting hydrometeorological system for studying flash flood events: The case of Mandra, Greece. *Remote Sens.* **2020**, 12, 2784, doi:10.3390/rs12172784
 9. Bellos, V., Papageorgaki, I., Kourtis, I., Harris, V., Kalogiros I. and G. Tsakiris, (2020): "Reconstruction of a flash flood event using a 2D hydrodynamic model under spatial and temporal variability of storm", *Nat Hazards*, 101, 711–726, doi.org/10.1007/s11069-020-03891-3
 10. Ortiz-Suslow, D., Wang, Q., Kalogiros, J., and Yamaguchi, R.,(2019): "A Method for Identifying Kolmogorov's Inertial Subrange in the Velocity Variance Spectrum". *J. Atmos. Oceanic Technol.*, doi:10.1175/jtech-d-19-0028.1
 11. Derin, Y., E. Anagnostou, M Anagnostou, J. Kalogiros, (2019): "Evaluation of X-Band Dual-Polarization Radar-Rainfall Estimates from OLYMPEX", *Journal of Hydrometeorology*, 20, 1941-1959, doi.org/10.1175/JHM-D-19-0097.1
 12. Ortiz-Suslow, D., Q. Wang, , J. Kalogiros , R. Yamaguchi, T. de Paolo, E. Terrill, R. Kipp Shearman, P. Welch, and I. Savelyev, (2019): "Interactions between nonlinear internal ocean waves and the atmosphere", *Geophysical Research Letters*, 46, 9291–9299. doi.org/10.1029/2019GL083374

13. Fan, S., Gao, Z., Kalogiros, J., Li, Y., Yin, J., and Li. X., (2019): "Estimate of Boundary-Layer Depth in Nanjing City using Aerosol Lidar Data during 2016-2017 Winter", *Atmos. Env.*, 205, 67-77, doi.org/10.1016/j.atmosenv.2019.02.022
14. Varlas, G., M. N. Anagnostou, C. Spyrou, A. Papadopoulos, J. Kalogiros, A. Mentzafou, S. Michaelides, E. Baltas, E. Karymbalis and P. Katsafados, (2019): "A Multi-Platform Hydrometeorological Analysis of the Flash Flood Event of 15 November 2017 in Attica, Greece", *Remote Sens.* 2019, 11(1), 45, 144-174, doi:10.3390/rs11010045
15. Diakakis, M., Andreadakis E., Spyrou N.I., Gogou M.E., Nikolopoulos E.I., Deligiannakis G., Katsetsiadou N.K., Antoniadis Z., Melaki M., Georgakopoulos A., Tsaprouni K., Kalogiros J., Lekkas E. (2018), "The flash flood of Mandra 2017, in West Attica, Greece. Description of impacts and flood characteristics", *International Journal of Disaster Risk Reduction*, S2212-4209(18)30393-5, doi:10.1016/j.ijdrr.2018.10.015.
16. Anagnostou, M.N., E.I. Nikolopoulos, J. Kalogiros, E.N. Anagnostou, F. Marra, E. Mair, G. Bertoldi, U. Tappeiner and M. Borga (2018): "Advancing precipitation estimation and streamflow simulations in complex terrain with X-band dual-polarization radar observations", *Remote Sensing*, 10, 1258; doi:10.3390/rs10081258.
17. Triantafyllou, A.G., J. Kalogiros, A. Krestou , E. Leivaditou, N. Zoumakis, D. Bouris, S. Garas, E. Konstantinidis, Q. Wang and K. Rados (2018): "Evaluation of an atmospheric model with surface and ABL meteorological data for energy applications in structured areas", *Theor. Appl. Climatol.*, 1-16, doi.org/10.1007/s00704-018-2429-1.
18. Derin, Y., E. Anagnostou, M. Anagnostou, J. Kalogiros, D. Casella, A. C. Marra, G. Panegrossi P. Sanò, (2017): Passive microwave rainfall error analysis using high-resolution X-band dual-polarization radar observations in complex terrain, *IEEE Trans. Geosci. and Rem. Sens.*, DOI 10.1109/TGRS.2017.2763622.
19. Wang, Q., D. P. Alappattu, S. Billingsley, B. Blomquist, R.J. Burkholder, A.J. Christman, E. D. Creegan, T. de Paolo, D.P. Eleuterio, H.J.S. Fernando, K.B. Franklin, A.A. Grachev, T. Haack, T.R. Hanley, C.M. Hocut, T.R. Holt, K. Horgan, H. H. Jonsson, R.A. Hale, J.A. Kalogiros, D. Khelif, L.S. Leo, R.J. Lind, I. Lozovatsky, J. Panella-Morato, S. Mukherjee, W.A. Nuss, J. Pozderac, L.T. Rogers, I. Savelyev, D.K. Savidge, R. K. Shearman, L. Shen, E. Terrill, A.M. Ulate1, Q. Wang, R.T. Wendt, R. Wiss, R.K. Woods, L. Xu, R.T. Yamaguchi, and C. Yardim, (2017): CASPER, Coupled Air-Sea Processes and Electromagnetic (EM) ducting Research, *Bull. Am. Meteorol. Soc.*, DOI 10.1175/BAMS-D-16-0046.1
20. Erlingis, J.M., J.J. Gourley, P.E. Kirstetter, E.N. Anagnostou, J. Kalogiros, M.N. Anagnostou, and W. Petersen, (2017): Evaluation of operational and experimental precipitation algorithms and microphysical insights during IPHEx, *J. Hydrometeorol.*, DOI 10.1175/JHM-D-17-0080.1
21. Dandou, A., M. Tombrou, J. Kalogiros, E. Bossioli, G. Biskos, N. Mihalopoulos, and H. Coe, (2017): Investigation of turbulence parameterization schemes with reference to the Atmospheric Boundary Layer over the Aegean Sea during Etesian winds, *Boundary-Layer Meteorol.*, 164, 2, 303–329, DOI 10.1007/s10546-017-0255-0

22. Alappattu, D.P., Wang, Q., Kalogiros, J., Guy, N., and D.P. Jorgensen (2016): "Variability of upper ocean thermohaline structure during a MJO event from DYNAMO aircraft observations", *Journal of Geophysical Research Oceans*, 122, DOI: 10.1002/2016JC012137.
23. Papayannis, A., Argyrouli, A., Bougiatioti, A., Remoundaki, E., Vratolis, S., Nenes, A., Solomos, S., Komppula, M., Giannakaki, E., Kalogiros, J., Banks, R., Eleftheriadis, K., Mantas, E., Diapouli, E., Tzanis, C.G., Kazadzis, S., Binietoglou, I., Labzovskii, L., Vande Hey, J., and C.S. Zerefos (2016): "From hygroscopic aerosols to cloud droplets: The HygrA-CD campaign in the Athens basin-An overview", *Sci. Total Environ.*, 574, 216-233, DOI: 10.1016/j.scitotenv.2016.09.054.
24. Ioannidou, M. P., Kalogiros J. A., and A. K. Stavrakis (2016): "Comparison of the TRMM Precipitation Radar rainfall estimation with ground-based disdrometer and radar measurements in South Greece", *Atmospheric Research*, 181, 172–185, DOI: 10.1016/j.atmosres.2016.06.023.
25. Alappattu, D. P., Wang, Q., and J. Kalogiros (2016): "Anomalous propagation conditions over eastern Pacific Ocean derived from MAGIC data", *Radio Science*, 51, 7, 1142-1156, DOI: 10.1002/2016RS005994.
26. Bossioli, E. , Tombrou, M. , Kalogiro s, J. , Allan, J. , Bacak, A. , Bezantakos, S., Biskos, G., Coe, H., Jones, B.T., Kouvarakis, G., Mihalopoulos, N., and C.J. Percival (2016): "Atmospheric composition in the Eastern Mediterranean: Influence of biomass burning during summertime using the WRF-Chem model", *Atmospheric Environment*, 132, 317-331, DOI: 10.1016/j.atmosenv.2016.03.011.
27. Athanasopoulou, E., Protonotariou, A.P., Bossioli, E., Dandou, A., Tombrou, M., Allan, J.D., Coe, H., Mihalopoulos, N., Kalogiros, J., Bacak, A., Sciare, J., Biskos, G., (2015): "Aerosol chemistry above an extended archipelago of the eastern Mediterranean basin during strong northern winds", *Atmospheric Chemistry and Physics*, 15, 8401-8421, DOI: 10.5194/acp-15-8401-2015.
28. Tombrou, M., E. Bossioli, J. Kalogiros , J.D. Allan, A. Bacak, G. Biskos, H. Coe, A. Dandou, G. Kouvarakis, N. Mihalopoulos, C.J. Percival, A.P. Protonotariou, B. Szabó-Takács, (2015): "Physical and chemical processes of air masses in the Aegean Sea during Etesians: Aegean-GAME airborne campaign", *Science of the Total Environment*, 506-507, 201-216, DOI 10.1016/j.scitotenv.2014.10.098.
29. Dai, C., Wang, Q. ,Kalogiros, J.A.,Lenschow, D.H.,Gao, Z.,Zhou, M., (2014): "Determining Boundary-Layer height from aircraft measurements," *Boundary-Layer Meteorol.*, DOI 10.1007/s10546-014-9929-z
30. Kalogiros, J., M. N. Anagnostou, E. N. Anagnostou, M. Montopoli, E. Picciotti, and F. S. Marzano, (2014): "Evaluation of a new polarimetric algorithm for rain path attenuation correction of X-band radar observations against disdrometer," *IEEE Trans. Geosci. Remote Sens.*, 52, 2, 1369-1380, DOI: 10.1109/TGRS.2013.2250979.
31. Bezantakos, S., K. Barmpounis, M. Giamarelou, E. Bossioli, M. Tombrou, N. Mihalopoulos, K. Eleftheriadis, J. Kalogiros, J. D. Allan, A. Bacak, C. J. Percival, H. Coe, and G. Biskos, (2013): "Chemical composition and hygroscopic properties of aerosol particles over the Aegean Sea," *Atmos. Chem. Phys.*, DOI:10.5194/acp-13-11595-2013, 13, 11595–11608.

32. Picciotti, E., F.S. Marzano, E.N. Anagnostou, J. Kalogiros, Y. Fessas, A. Volpi, V. Cazac, R. Pace, G. Cinque, L. Bernardini, K. De Sanctis, M. Montopoli, M.N. Anagnostou, and A. Telleschi, (2013): “ Coupling X-band dual-polarized mini-radar and hydro-meteorological forecast models: the HYDRORAD project,” *Natural Hazards and Earth Systems Sciences*, Special Issue on “*13th Plinius Conference on Mediterranean Storms: disasters and climate change - know to adapt*”, DOI:10.5194/nhess-13-1-2013, 13, 1229–1241, 2013.
33. Kalogiros, J., M. N. Anagnostou, E. N. Anagnostou, M. Montopoli, E. Picciotti, and F. S. Marzano, (2013): “Correction of polarimetric radar reflectivity measurements and rainfall estimates for apparent vertical profile in stratiform rain,” *J. Appl. Meteor. Climate.*, 52, 5, 1170-1186, DOI: 10.1175/JAMC-D-12-0140.1.
34. Anagnostou, M.N., J. Kalogiros, F. S. Marzano, E. N. Anagnostou, M. Montopoli, and E. Picciotti, (2013): “Performance evaluation of a new rain microphysics algorithm for dual-polarization X-band radars using long-term radar and disdrometer measurements,” *J. Hydrometeor.*, 14, 560-576, DOI: 10.1175/JHM-D-12-057.1
35. Kalogiros, J., M. N. Anagnostou, E. N. Anagnostou, M. Montopoli, E. Picciotti, and F. S. Marzano, (2013): “Optimum estimation of rain microphysical parameters using X-band dual-polarization radar observables,” *IEEE Trans. Geosci. Remote Sens.*, 51, 5, 3063- 3076, DOI: 10.1109/TGRS.2012.2211606
36. Kalogiros, J., (2012): “Least-Squares Reconstruction of Doppler Radar Spectra for Irregular PRT,” *J. Atmos. Oceanic Technol.*, 29, 1744–1756, DOI: 10.1175/JTECH-D-12-00026.1
37. Kalogiros, J.A., and Q. Wang, (2011): “Aircraft observations of sea surface turbulent fluxes near the California coast”, *Boundary-Layer Meteorology*, 139, 283-306, DOI: 10.1007/s10546-010-9585-x.
38. Wang, Q., J.A. Kalogiros, S.R. Ramp, J. Paduan, G. Buzorius and H. Jonsson, (2011): “Wind stress and coastal upwelling in the area of Monterey Bay observed during AOSN-II”, *Journal of Physical Oceanography*, DOI: 10.1175/2010JPO4305.1.
39. Anagnostou, M.N., J.A. Kalogiros, E.N. Anagnostou, M. Tarolli, A. Papadopoulos and M. Borga, (2010): “Performance evaluation of high resolution rainfall estimation by X-band dual polarization radar for flash flood applications in mountainous basins”, *Journal of Hydrology-Special issue on flash flood*, **394**, 1-2, 4-16.
40. Anagnostou, M.N., J.A. Kalogiros, E.N. Anagnostou and A. Papadopoulos (2009): “Experimental Results on Rainfall Estimation in Complex Terrain with a Mobile X-band Polarimetric Weather Radar”, *Atmospheric Research*, **94**, 4, 579-595.
41. Buzorius G., J. Kalogiros and T. Varutbangkul, (2006): "Airborne aerosol flux measurements with eddy-correlation above the ocean in a coastal environment", *Journal of Aerosol Science*, 37, 1267-1286.
42. Helmis, C.G, Q. Wang, G. Katsouvas, Z. Gao, C.H. Halios, J.A. Kalogiros, S. Wang, G. Sgouros and J. Edson, (2006): On the turbulent structure of the

- marine atmospheric boundary layer from the CBLAST Nantucket measurements. *Global NEST Journal*, Vol 8, No 3, 210-217.
43. Kalogiros, J.A., and Q. Wang, (2002): "Aerodynamics effects on wind turbulence measurement with research aircraft", *Journal of Atmospheric and Oceanic Technology*, Vol. 19, 1567-1576.
44. Kalogiros, J.A., and Q. Wang, (2002): "Calibration of a radome-differential GPS system on a Twin Otter research aircraft for turbulence measurements", *Journal of Atmospheric and Oceanic Technology*, Vol. 19, **2**, 159-171.
45. Helmis, C.G., H.A Flocas, J.A. Kalogiros and D.N. Asimakopoulos (2000) "Strong downslope winds and application of the hydraulic-like theory", *Journal of Geophysical Research-Atmospheres*, **105**, **D14**, 18039-18051.
46. Helmis, C.G., J.A. Kalogiros, D.N. Asimakopoulos and A.T. Soilemes (2000) "Estimation of potential temperature gradient in turbulent stable layers using acoustic sounder measurements", *Quarterly Journal of Royal Meteorological Society*, **126**, 31-62.
47. Kalogiros, J.A., C.G. Helmis, D.N. Asimakopoulos and P.G. Papageorgas (1999) "Estimation of ABL parameters using the vertical velocity measurements of an acoustic sounder", *Boundary-Layer Meteorology*, **91**, 413-449.
48. Asimakopoulos, D.N., C.G. Helmis, K.H. Papadopoulos, J.A. Kalogiros, A.T. Soilemes and M. Petrakis (1999) "Inland propagation of sea breeze under opposing offshore wind", *Meteorology and Atmospheric Physics*, **70**, 97-100.
49. Kalogiros, J.A., and C.G. Helmis (1999) "Automatic detection of fixed echoes in sodar facsimile records using the wavelet transform", *Journal of Atmospheric and Oceanic Technology*, Vol. 16, **12**, 734-738.
50. Helmis, C.G., D.N. Asimakopoulos, K.H. Papadopoulos, J.A. Kalogiros, P. Kassomenos, P.G. Papageorgas and S. Blikas (1997) "Air mass exchange between the Athens Basin and the Messogia Plain of Attica, Greece", *Atmospheric Environment*, **31**, 3833-3849.
51. Papadopoulos, K.H., C.G. Helmis, A.T. Soilemes, J. Kalogiros, P.G. Papageorgas and D.N. Asimakopoulos (1997) "The structure of katabatic flows down a simple slope", *Quarterly Journal of Royal Meteorological Society*, **123**, 1581-1601.
52. Kalogiros, J.A., C.G. Helmis, D.N. Asimakopoulos, P.G. Papageorgas and A.T. Soilemes (1995) "A layer detection and classification algorithm for sodar facsimile records", *Journal of Remote Sensing*, **16**, 2939-2954.
53. Kalogiros, J.A., and C.G. Helmis (1995) "Second-order spectral local isotropy of the humidity and temperature fields in an urban area", *Quarterly Journal of Royal Meteorological Society*, **122**, 545-567.
54. Helmis, C.G., K.H. Papadopoulos, J.A. Kalogiros, A.T. Soilemes and D.N. Asimakopoulos (1995) "Influence of background flow on evolution of Saronic Gulf sea breeze", *Atmospheric Environment*, **29**, 3689-3701.
55. Helmis, C.G., J.A. Kalogiros, D.N. Asimakopoulos, K.H. Papadopoulos and A.T. Soilemes (1995) "Acoustic sounder measurements of atmospheric turbulent fluxes on the shoreline", *The Global Atmosphere and Ocean System*, **2**, 351-362.

56. Helmis, C.G., J.A. Kalogiros, K.H. Papadopoulos, A.T. Soilemes and D.N. Asimakopoulos (1994) "Estimation of the atmospheric surface momentum and heat fluxes using a high resolution acoustic radar", *Journal de Physique IV*, **4**, C5, 287-290.
57. Kalogiros, J.A., and C.G. Helmis (1993): "Fast response humidity measurements with the psychrometric method", *Journal of Applied Meteorology*, **32**, 1499-1507.

Presentations and Publications in International Conference Proceedings

1. Papangelis G., J. Kalogiros, D. Katsanos D., and A. Retalis (2021): "A 4D-Var radar data assimilation scheme for nowcasting of local extreme weather", *15th International Conference of Meteorology, Climatology and Atmospheric Physics* (COMECP 2021), Ioannina, Greece, 26-29 September 2021.
2. Ortiz-Suslow, D.G., J. Kalogiros, R. Yamaguchi, and Q. Wang (2021): "The prevalence of the constant flux layer over the ocean", 5.1A session, *101st American Meteorological Society Annual Meeting (Virtual)*, 10-15 January 2021.
3. Wang, Q., R. Yamaguchi, J. Kalogiros, Z. Daniels, D. P. Alappattu, H. Jonsson, O. Alvarenga, A. Olson, B. Wauer, D. G. Ortiz-Suslow and H. J. Fernando, (2020): Microphysics and optical attenuation in coastal fog, *AGU Fall Meeting 2020*, A089-0005, 1-17 December 2020, San Francisco, CA, United States
4. Katsafados, P., C. Spyrou, G. Varlas, A. Pappa, A. Mentzafou, A. Papadopoulos, M.N. Anagnostou, J. Kalogiros (2020): Nowcasting an extreme flash flood event: The case of Mandra, Greece, *7th International Conference on Civil Protection and New Technologies, Safe Greece 2020*, 14-16 October, Thessaloniki, Greece.
5. Ortiz-Suslow, D.G., Q. Wang, J. Kalogiros, R. Yamaguchi, D. Alappattu, A. Olson, P. Welch, R. K. Shearman, I. Savelyev, S. Celona, T. de Paolo, and E. Terrill (2020): The Atmospheric Surface Layer Response to Nonlinear Internal Ocean Waves, *2020 Ocean Sciences Meeting*, AI24A-2308, AGU, 16-21 February 2020, San Diego, CA, United States.
6. Yamaguchi, R. T., Q. Wang, J. A. Kalogiros, and O. Alvarenga (2020): "Spatial variabilities of optical turbulence observations measured at the High Energy Laser System test facility", session PTu4F.4, *Optical Sensors and Sensing Congress*, OSA Technical Digest (Optical Society of America, 2020), Washington, DC USA, 22–26 June 2020, ISBN: 978-1-943580-78-1.
7. Wang, Q., D. Ortiz-Suslow, B. J. Wauer, R. T. Yamaguchi, and J. A. Kalogiros (2020): "Atmospheric optical turbulence and inertial subrange spectra over the ocean", session PM1D, *Optical Sensors and Sensing Congress*, OSA Technical Digest (Optical Society of America, 2020), Washington, DC USA, 22–26 June 2020, ISBN: 978-1-943580-78-1.

8. Wang, Q., R. Lind, R. Yamaguchi, J. Kalogiros, C. Zuniga and A. E. Sweeney, (2020): The Marine-Air-Sea-Flux System (MASFlux) for Air-Sea Interaction Studies, *2020 Ocean Sciences Meeting*, AI42A-04, AGU, 16-21 February 2020, San Diego, CA, United States
9. Yamaguchi, R., Q. Wang, J. Kalogiros, (2020): Wave Glider Measurements of Turbulent Fluxes and Bulk Meteorological Quantities in the Wave Boundary Layer, *18th Symposium on the Coastal Environment*, Session 14, CASPER Special Session: Coastal Air–Sea Interaction Affecting Electromagnetic Wave Propagation. Part II, *99th AMS Annual Meeting*, 12-16 January 2020, Boston, MA, United States
10. Ortiz-Suslow, D. G., Q. Wang, J. Kalogiros, R. Yamaguchi, S. Celona, T. de Paolo, E. Terrill, R. Kipp Shearman, P. Welch, I. Savelyev (2019): Quantifying the Impact of Nonlinear Internal Waves on the Marine Atmospheric Surface Layer, *2019 IEEE/OES Twelfth Current, Waves and Turbulence Measurement (CWTM)*, San Diego, CA, USA, 2019, pp. 1-9, doi: 10.1109/CWTM43797.2019.8955282.
11. Ortiz-Suslow, D., J. Kalogiros, R. Yamaguchi, B. Wauer, K. Franklin, A. Olson, D. Alappattu and Q. Wang, (2019): "A New Method for Identifying Kolmogorov's Inertial Subrange and Analyzing the Variability of the -5/3 Power Law Using Observations from FLIP", A23D-07, *AGU Fall Meeting*, 9-13 December 2019, San Francisco, CA, USA.
12. Derin, Y., E. Anagnostou, M. Anagnostou, and J. Kalogiros, (2019): "Analysis of X-Band Dual Polarization Radar Observations over Multiple Complex Terrain Regions ", A53L-3064, *AGU Fall Meeting*, 9-13 December 2019, San Francisco, CA, USA.
13. Derin, Y., E. Anagnostou, E. Bhuiyan, M. Anagnostou, and J. Kalogiros, (2019): "Characterization and Modeling of Satellite-Based Precipitation Uncertainty over Complex Terrain", H31P-1982, *AGU Fall Meeting*, 9-13 December 2019, San Francisco, CA, USA.
14. Derin, Y., E. Anagnostou, E. Bhuiyan, M. Anagnostou, and J. Kalogiros, (2019): "Error Modeling of Passive Microwave Precipitation Products Over Complex Terrain", 1.29, *12th International Precipitation Conference*, June 19-21, 2019 Irvine, California, CA, USA
15. Ortiz-Suslow, D.G., Q. Wang, J. Kalogiros, R. Yamaguchi, S. Celona, A. de Paolo, E. Terrill, R. K. Shearman, P. Welch, and I. Savelyev, "Quantifying the Impact of Nonlinear Internal Waves on the Marine Atmospheric Surface Layer," *2019 IEEE/OES Twelfth Current, Waves and Turbulence Measurement (CWTM)*, San Diego, CA, USA, March 10-13, 2019, pp. 1-9. doi: 10.1109/CWTM43797.2019.8955282
16. Anagnostou, M., J.. Kalogiros, C. Spyrou, G. Varla, G. Papangelis, A. Retalis, A. Mentzafou, D. Katsanos, P. Katsafados, A. Papadopoulos, D. Chaskos, E. Houssos, C. Lolis and A. Bartzokas, (2019): "A low cost multi-platform system for early warning of extreme hydrometeorological events", *SafeCorfu 2019 – 6th International Conference on Civil Protection and New Technologies*, 6-9 November, Ionian Academy – Corfu, Greece.

17. Spyrou C., G. Varlas, M. Anagnostou, A. Pappa, J. Kalogiros, A. Papadopoulos, M.M. Miglietta, A. Tiessi, and P. Katsafados, (2019): " Latest LAPS developments Assimilating remote sensing data and its impact on LAPS predictability", *3rd European Nowcasting Conference*, 24-26 April 2019, Madrid, Spain.
18. Wang, Q., R. Burkholder, C. Yardim, D. P. Alappattu, K. B. Franklin, R. T. Yamaguchi, A. Hook, L. Rogers, K. Mulreany, D. Ortiz-Suslow, J. Kalogiros, B. Wauer, A. Olson, (2019): "Sampling Spatial-Temporal Variability of Electromagnetic Propagation in CASPER-West", *13th European Conference on Antennas and Propagation (EuCAP)*, 31 March-5 April 2019, Krakow, Poland.
19. Wang Q., D. Ortiz-Suslow, B. Wauer, R. Yamaguchi, and J. Kalogiros, (2019): "Measurements of atmospheric C_n^2 and inertial subrange spectra over the ocean", *Non-Kolmogorov Turbulence Workshop*, July 1-3, 2019, Ettlingen, Germany.
20. Bellos, V., Papageorgaki, I., Kourtis, I., Vangelis, H., Kalogiros, I., and Tsakiris G. (2019): "Flood hydrograph derivation of the flood hit Mandra, Attica (November 2017)", *14th Conference of the Hellenic Hydrotechnical Association*, 16-17 May 2019, Volos, Greece
21. Ortiz-Suslow, D.G., D. P. Alappattu, J. Kalogiros, R. Yamaguchi, and Q. Wang (2019): "Observations of the Marine Atmospheric Surface Layer Gradients during the CASPER-West Field Campaign", *795, 99th AMS Annual Meeting*, 6-10 January 2019, Phoenix, Arizona, USA
22. Ortiz-Suslow, D.G., Q. Wang, J. A. Kalogiros, R. Yamaguchi, T. de Paolo, R. Kipp Shearman and I. Savelyev (2018): "Interactions between Nonlinear Internal Waves and Atmospheric Surface Layer", A31Q-3183, *Fall Meeting AGU*, 10-14 December 2018, Washington, D.C., USA
23. Benjamin Wauer, Qing Wang, Oswaldo Alvarenga, Ryan Yamaguchi, John Kalogiros, Denny P. Alappattu, Galen Cauble, (2018) "Observations of optical turbulence in the marine atmospheric surface layer during CASPER-West", *Proc. Society of Photo-Optical Instrumentation Engineers (SPIE), Laser Communication and Propagation through the Atmosphere and Oceans VII*, 18 September 2018, San Diego, California, USA, DOI: 10.1117/12.23212588
24. Derin, Y., Anagnostou E., Anagnostou M.. and J. Kalogiros, (2018): "Analysis of X-Band Dual Polarization Radar Observations in OLYMPEX", *The International Workshop on Small Weather Radars 2018*, 6-8 June 2018, Fort Collins, Colorado.
25. Yamaguchi, Ryan, Wang, Qing, and Kalogiros, John, (2018): "Turbulence measurements aboard WaveGlider during CASPER-West", *21st Conference on Air-Sea Interaction*, American Meteorological Society, Oklahoma City, USA, 12 June 2018.
26. Kalogiros J., Retalis A., Katsanos D., Nikolopoulos E., Diakakis M., Andreadakis E., and M. Anagnostou, (2018): "An extreme flash flood event in Greece: Observations and atmospheric-hydrological modeling", *11th HyMeX Workshop*, 29 May-2 June 2018, Lecce, Italy.
27. Andreadakis E., Diakakis M., Nikolopoulos E.I., Lekkas E., Spyrou N.I. Gogou M.E. Katsetsiadou N.K.. Deligiannakis G., Georgakopoulos A., Antoniadis Zacharias, Melaki Maria, Lekkas E., Kalogiros J. (2018): "Characteristics and

- impacts of the November 2017 catastrophic flash flood in Mandra, Greece", *European Geosciences Union (EGU) General Assembly 2018*, DOI:10.13140/RG.2.2.21156.73605.
28. Derin, Y., E.N. Anagnostou, M. Anagnostou, J. Kalogiros, D. Casella, A.C. Marra, G. Panegrossi and P. Sanò, (2017): "Passive microwave precipitation retrieval uncertainty characterized based on field campaign data over complex terrain", H32C-08, *AGU Fall Meeting*, San Francisco, 11-15 December 2017.
29. Wang, Q., D.P. Alappattu, B.J. Wauer, R.T. Yamaguchi, J.A. Kalogiros, H. Jonsson (2017): "Variability of Refractive Index Structure Parameter and Aerosols in the Marine Atmospheric Boundary Layer", *Proc. Society of Photo-Optical Instrumentation Engineers (SPIE), Laser Communication and Propagation through the Atmosphere and Oceans VI*, San Diego, 19 September 2017, DOI 10.1117/12.2272074
30. Methymaki G., Bossioli E., Dandou A., Kalogiros J., Biskos G., Mihalopoulos N., Nenes A. and Tombrou M. (2018): "Solar Irradiance Prediction over the Aegean Sea: Shortwave Parameterization Schemes and Aerosol Radiation Feedback", in *Air Pollution Modeling and its Application XXV, Springer Proceedings in Complexity*, Eds. Prof. Dr. Clemens Mensink, Prof. Dr. George Kallos, p. 141 - 145, DOI: 10.1007/978-3-319-57645-9_22, ISBN: 978-3-319-57645-9
Methymaki, G., Bossioli, E., Dandou, A., Kalogiros, J., Biskos, G., Mihalopoulos, N., Nenes, A., and M. Tombrou (2016): "Solar irradiance prediction over the Aegean Sea: Shortwave parameterization schemes and aerosol radiation feedback", *35th International Technical Meeting on Air Pollution Modelling and its Application*, 3-7 October 2016, Chania, Greece.
31. Papangelis, G., Tombrou, M. and J. Kalogiros (2016): "The effect of surface heterogeneity on the vertical structure of the Saharan convective boundary layer", in *Perspectives on Atmospheric Sciences*, Karacostas, T., Bais, A., Nastos, P.T. (Eds.), p. 107-113, *13th International Conference of Meteorology, Climatology and Atmospheric Physics* (COMECP 2016), Thessaloniki, Greece, 19-21 September 2016.
32. Anagnostou, M. N., Kalogiros, J., Nikolopoulos, E. I., Yagmur, D., Anagnostou, E. N., and M. Borga (2016): "Satellite Rainfall Error Analysis with the use of High-Resolution X-band Dual-Polarization Radar Observations over the Italian Alps", in *Perspectives on Atmospheric Sciences*, Karacostas, T., Bais, A., Nastos, P.T. (Eds.), p. 279-286, *13th International Conference of Meteorology, Climatology and Atmospheric Physics* (COMECP 2016), Thessaloniki, Greece, 19-21 September 2016.
33. Papayannis, A., Argyrouli, A., Bougiatioti, A., Nenes, A., Vande Hey, J., Komppula, M., Kokkalis, P., Solomos, S., Banks, R.F., Labzovskii, L., Kalogiros, I., and E. Giannakaki (2016): "From hygroscopic aerosols to cloud droplets: the HygrA-CD Campaign in the Athens basin – An overview", in *Perspectives on Atmospheric Sciences*, Karacostas, T., Bais, A., Nastos, P.T. (Eds.), p. 781-788, *13th International Conference of Meteorology, Climatology and Atmospheric Physics* (COMECP 2016), Thessaloniki, Greece, 19-21 September 2016.
34. Yamaguchi, R., Lind, R. J., Wang, Q., and J. Kalogiros (2016): " Autonomous Wave Glider – New Type of Measurement Platform for Air-Sea Interaction

Research", *20th Conference on Air-Sea Interaction*, American Meteorological Society, Madison, WI, USA. 15-19 August 2016.

35. Alappattu, D.P., Wang, Q., Yamaguchi, R., Lind, R. J., Reynolds, R. M., Kalogiros, J. and A. J. Christman (2016): "Obtaining Accurate Sea Surface Skin Temperature from Multiple Data Sources during the CASPER-East Field Campaign", *20th Conference on Air-Sea Interaction*, American Meteorological Society, Madison, WI, USA. 15-19 August 2016.
36. Alappattu, D.P., Wang, Q., Yamaguchi, R., Lind, R. J., Kalogiros, J., and R. B. Rainer (2016): "Characteristics of Surface Layer Scalar Profiles Using In-Situ Measurements in an Undisturbed Marine Environment", *20th Conference on Air-Sea Interaction*, American Meteorological Society, Madison, WI, USA. 15-19 August 2016.
37. Wang. S., Wang. Q, and J. Kalogiros (2016): "Wind Shear, Rolls, and Convective Circulation in Stratocumulus-d Boundary Layer", *22nd Symposium on Boundary Layers and Turbulence*, American Meteorological Society, Salt Lake City, UT, USA, 20 – 24 June 2016.
38. Gourley, J.J. , J. Kalogiros, E. N. Anagnostou, M. Anagnostou, O. Bousquet, and P. E. Kirtstetter, (2015): "Rainfall rate and microphysics retrievals from mobile X-band polarimetric radars", *37th Conference on Radar Meteorology*, 14 – 18 September 2015 Norman, OK, USA.
39. Triantafyllou A.G, Krestou A., Kalogiros J, Zoumakis N., Leivaditou E., Garas S., Konstantinidis E. and Rados K., (2015): "Comparison of mesoscale model with SODAR wind and radiometer temperature profiler measurements over an urban area", *Proceedings of the 14th International Conference on Environmental Science and Technology*, Rhodes, Greece, 3-5 September 2015.
40. Matsangouras, I., Kalogiros, J., Nastos, P.T., Anagnostou, M.N., Pytharoulis, I., and Bluestein, H.B., (2015): "Close-range observations of tornado activities made with a dual-polarization, X-Band, mobile Doppler radar in urban area of Athens", *8th European Conference on Severe Storms 2015*, 14-18 September 2015, Wiener Neustadt, Austria, Volume: ECSS2015-57-1.
41. Barbieri, S., Picciotti, E., Montopoli, M., Di Fabio, S., Lidori, R., Marzano, F., Kalogiros, J., Anagnostou, M., and Baldini, L., (2015): "Performance evaluation of rain products from a polarimetric X-band radar by using a new raw data processing chain", *Geoscience and Remote Sensing Symposium (IGARSS) 2015*, IEEE International, 26-31 July 2015, Milan, Italy, p. 909-912, doi: 10.1109/IGARSS.2015.7325913.
42. Alappattu, D.P. , Wang, Q., Kalogiros, J., Yamaguchi, R., (2015): "Modeled evaporation duct climatology in a limited area using multiple data sources", *USNC-URSI Radio Science Meeting 2015*, 19-24 July 2015, Vancouver, BC, Canada, Proceedings no. 7303528 (MO-UF.1P.8), DOI: 10.1109/USNC-URSI.2015.7303528.
43. Derin, Y., E. Anagnostou, J. Kalogiros, and M. Anagnostou, (2015): "Passive Microwave Rainfall Error Analysis using High-Resolution X-band Dual-Polarization Radar", *EGU General Assembly 2015*, Vienna, Austria, 13-17 April 2015, EGU2015-7265.
44. Kalogiros, J.A., M.N. Anagnostou, E.I. Nikolopoulos, E.N. Anagnostou, M. Borga, G. Delrieu, B. Boudevillain, F. Marra, E. Mair, G. Bertoldi, U. Tappeiner, (2014): "High resolution polarimetric radar observations in

North-East Italian Alps and Southern France during HyMeX SOP 2012 and 2013," *8th HyMeX Workshop*, 15-18 September 2014, La Valletta, Malta.

45. Barbieri, S., E. Picciotti, M. Montopoli, S. Fabio, R. Lidori, F. Marzano, J. Kalogiros, M. Anagnostou and L. Baldini, 2014: "Intercomparison of dual-polarization X-band miniradar performances with reference radar systems at X and C band in Rome supersite," in proceedings of *8th European Conference on Radar in Meteorology and Hydrology*, 1 – 5 September
46. Anagnostou M. N., E. I. Nikolopoulos, J. Kalogiros, E.N. Anagnostou, F. Marra, M. Borga, E. Mair, G. Bertoldi, U. Tappeiner, 2014 (oral presentation): "High-resolution X-band polarimetric radar Observations during the HyMeX 2012 Special Observation Period in North-East Italian Alpine Region: Evaluating hydrologic impacts," in proceedings of *8th European Conference on Radar in Meteorology and Hydrology*, 1 – 5 September.
47. Tombrou M., Kalogiros J., Papangelis G., Dandou A., Bossioli E., Biskos G., Mihalopoulos N., Allan J., Coe H., (2014): "Marine Boundary Layer and Turbulent Fluxes over Aegean Sea during an Etesian outbreak, " in *21st Symposium on Boundary Layers and Turbulence*, American Meteorological Society, Leeds, UK, 9-13 June.
48. Kalogiros J., Q. Wang, R. J. Lind, C. Zuniga, R. C. Cherrett, and K. Hermsdorfer, (2014): "Atmospheric Turbulence and Wave Measurements with a Small Spar Buoy," in *21st Symposium on Boundary Layers and Turbulence*, American Meteorological Society, Leeds, UK, 9-13 June.
49. Papangelis G., M. Tombrou and J. Kalogiros, (2014): "Investigating the effects of surface heterogeneity on the vertical structure of the Saharan convective boundary layer using large eddy simulation," in *21st Symposium on Boundary Layers and Turbulence*, American Meteorological Society, Leeds, UK, 9-13 June.
50. Anagnostou, M. N., J. Kalogiros, E. I. Nikolopoulos, E. N. Anagnostou, F. Marra, M. Borga, E. Mair, G. Bertolidi, and U. Tappeiner, 2014 (oral presentation): "Dual-Polarization X-band Mobile Radar Observations as a Hydrologic Support Tool during the HyMeX Special Observation Period in North-East Italian Alpine Region," in proceedings of *12th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2014*, Heraklion, Crete, 28 – 31 May.
51. Athanasopoulou E., Protonotariou A., Bossioli E., Allan J., Dandou A., Coe H., Bacak A., Kalogiros J., Mihalopoulos N., Biskos G. and Tombrou M., (2014): "Spatial distribution of aerosol species over the Aegean Sea: model coupling and evaluation during a recent Etesian period," in proceedings of *12th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2014*, Heraklion, Crete, 28 – 31 May.
52. Bossioli E., Tombrou M., Kalogiros J., Allan J., Bacak A., Bezentakos S., Biskos G., Coe H., Kouvarakis G., and Mihalopoulos N., (2014): Simulation of physical and chemical processes of polluted air masses during the Aegean-Game airborne campaign using WRF-Chem model," in proceedings of *12th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2014*, Heraklion, Crete, 28 – 31 May.
53. Anagnostou, M. N., John Kalogiros, Frank S. Marzano, Emmanouil N. Anagnostou, Luca Baldini, Efthymios Nikolopoulos, Mario Montopoli, and

- Errico Picciotti, 2014 (oral presentation): “Evaluating the potential use of a high-resolution X-band polarimetric radar observations in Urban Hydrology,” *EGU General Assembly*, Geophysical research abstracts, Vol. 15, Vienna, Austria, 27 April – 02 May.
54. Nikolopoulos, E. I., M. N. Anagnostou, J. Kalogiros, E. N. Anagnostou, F. Marra, E. Mair, G. Bertolidi, U. Tappeiner, and M. Borga, 2014 (poster presentation): “X-band dual-polarization radar observations as a hydrologic supporting tool in the North East Alpine region,” *International Weather Radar and Hydrology Symposium*, Washington, USA, 7 – 9 April.
55. Wang, Q., D. Khelif, P. Tellado, J. Kalogiros, D. Alappattu, S. Wang, and A. Bucholtz (2014): “Variability of stratocumulus and its boundary layer measured during UPPEF2012”, *94th American Meteorological Society Annual Meeting*, Atlanta, GA, 2-6 February 2014.
56. Wang, Q., Lind, R. J., Kalogiros, J., Zuniga, C., Cherrett, R. C., and K. Hermsdorfer (2014): " As small buoy-based turbulence and profile sampling system: Marine Air-Sea Flux System (MASFlux)", *17th Symposium on Meteorological Observation and Instrumentation*, American Meteorological Society, Westminster, CO, USA, June 08 - 13, 2014.
57. Anagnostou, M. N., J. Kalogiros, E. I. Nikolopoulos, E. N. Anagnostou, F. Marra, E. Mair, G. Bertolidi, U. Tappeiner, and M. Borga, 2013 (poster presentation): “Evaluating the potential of mobile X-band Dual-Polarization Radar Observations in Mountainous Hydrology,” the *6th International Workshop for GPM Ground Validation*, Rome, Italy, 5 – 7 November.
58. Bossioli, E., Tombrou,M., Kalogiros, J., Allan, J., Bacak,A., Bezentakos,S., Biskos,G., Coe,H., Kouvarakis,G., and Mihalopoulos,N. (2013): “Simulation of physical and chemical processes of polluted air masses during the Aegean-Gane airborne campaign using WRF-Chem model”, *Goldschmidt 2013 Conference*, August 25-30, Florence, Italy, *Mineralogical Magazine*, 77 (5), 746.
59. Marzano, F.S., L. Baldini, E. Picciotti, M. Colantonio, S. Barbieri, S. Di Fabio, M. Montopoli, G. Vulpiani, N. Roberto, E. Adirosi, E. Gorgucci, M. N. Anagnostou, J. Kalogiros, E. N. Anagnostou, R. Ferretti, P. Gatlin, M. Wingo, and W. Petersen (2013): “The HyMeX Special Observation Period in Central Italy: precipitation measurements, retrieval techniques and preliminary results”, *Geophysical Research Abstracts*, Vol. 15, EGU2013-8375, 2013 EGU General Assembly, 7-12 April, Vienna, Austria.
60. Anagnostou, E.N., E.I. Nikolopoulos, M.N. Anagnostou, J. Kalogiros, M. Borga, F. Marra (2013): “Evaluating the potential of X-band polarimetric radar observations in mountainous hydrology”, *11th International Precipitation Conference*, 30 June- 3 July 2013, Ede-Wageningen, Netherlands, Poster session 4.1.
61. Borga, M., J. Kalogiros, E. Nikolopoulos, M. Anagnostou, E. Anagnostou, W. Petersen, M. Tollardo, F. Mara, G. Bertoldi (2013): “Multi-sensor precipitation measurements during HyMeX Special Observation Period in Northeast Italy”, *Geophysical Research Abstracts*, Vol. 15, EGU2013-13795, 2013 EGU General Assembly, 7-12 April, Vienna, Austria.
62. Wang, Q., D. Khelif, J.A. Kalogiros, P. Raptis, K. Chelmis, D. P. Jorgensen, C. Zappa, I. T. Sears, and J. Williams (2013): "Air-Sea Interaction Revealed from

- Aircraft-Based Measurements During DYNAMO," *MJO Field Data and Science Workshop*, 4-8 March 2013, Big Island, Hawaii.
63. Cherrett, R., Wang, Q., Lind, R., Kalogiros, J., Horgan, K., Guest, P. S., Doyle, J.D., (2013):"Marine Surface Layer Characteristics Over the Summertime Costal Water Off Virginia Beach", *American Geophysical Union*, Fall Meeting 2013
 64. Wang, Q., D. Khelif D., J. Kalogiros, D. Tramp, C. Cherrett, P. Raptis, K. Chelmis, D. Jorgensen, C. Zappa, I. Sears, and J. Williams (2012): "Aircraft measurements of the atmosphere and the upper ocean during DYNAMO using NOAA P-3. Variability of the lower atmosphere and upper ocean from airborne measurements in DYNAMO ", A12C-03, *AGU Fall Meeting*, San Francisco, 3-7 December 2012.
 65. Kalogiros, J., Q. Wang, R. J. Lind, T. Herbers, and J. Cook, (2012): "Shipboard turbulence measurements of the marine atmospheric boundary layer from HiRes experiment", *18th Conference on Air-Sea Interaction*, American Meteorological Society, Boston, USA, 9-12 July 2012.
 66. Kalogiros, J. , Anagnostou M. , Anagnostou E., Marzano F.S., Picciotti E., Cinque G., Montopoli M., Bernardini L., Volpi A., Telleschi A., (2012) "Measurements of a network of mobile radars during the experimental campaign of the HydroRad project," *7th European Conference on Radar in Meteorology and Hydrology* (ERAD), Toulouse, France, 25-29 June 2012.
 67. Anagnostou, M.N., J. Kalogiros, J. Van Baelen, E. N. Anagnostou, F.S. Marzano, A. Papadopoulos, (2012): "Comparison rainfall microphysics estimates from dual-polarization X-band with a 2D video disdrometer, a Parsivel disdrometer and a Micro Rain Radar," *7th European Conference on Radar in Meteorology and Hydrology* (ERAD), Toulouse, France, 25-29 June 2012.
 68. Picciotti, E., Marzano F.S., Cinque G., Montopoli M., Bernardini L., De Sanctis K., Anagnostou E., Kalogiros J., Anagnostou M., Fessas Y., Volpi A., Telleschi A., Cazac V., and Pace R, (2012): "Exploiting X-band dual-polarization mini-radar network and hydro-meteorological forecast models in Moldova territory during the field campaign of HYDRORAD project," *7th European Conference on Radar in Meteorology and Hydrology* (ERAD), Toulouse, France, 25-29 June 2012.
 69. Kalogiros J., Anagnostou M., Marzano F.S., Picciotti E., Cinque G., Montopoli M., Bernardini L., Anagnostou E., Volpi A., and Telleschi A. (2012): "Mobile radar network measurements for flood applications during the field campaign of HydroRad project," In *Advances in Meteorology, Climatology and Atmospheric Physics (11th International Conference on Meteorology, Climatology and Atmospheric Physics)*, Springer Atmospheric Sciences, Eds C. G. Helmis and P. N. Nastos, pp. 137-143, doi: 10.1007/978-3-642-29172-2, ISBN: 978-3-642-29171-5
 70. Tombrou M., Bossioli E., Kalogiros J., Allan J., Bacak A., Biskos G., Coe H., Dandou A., Kouvarakis G., Michalopoulos N., Protonotariou A.P., Szabo-Takacs B., Triantafillou E., (2012): "Physical and chemical processes of polluted air masses during Etesians: Aegean-Greece airborne campaign - An outline In *Advances in Meteorology, Climatology and Atmospheric Physics (11th International Conference on Meteorology, Climatology and Atmospheric Physics)*

Physics), Springer Atmospheric Sciences, Eds C. G. Helmis and P. N. Nastos, pp. 1239-1244, doi: 10.1007/978-3-642-29172-2, ISBN: 978-3-642-29171-5

71. M.N. Anagnostou, F.S. Marzano, J. Kalogiros, J.A. Nystuen, E.N. Anagnostou, T. Chronis, M. Montopoli and E. Picciotti: "Experimental investigation of precipitation structure, dynamics and microphysics in Eastern Mediterranean: the HYDREX field campaign", 5th HyMeX workshop, Punta Prima, Sant Luis, Menorca, Spain, 17-19 May 2011.
72. F.S. Marzano, E. Picciotti, G. Cinque, M. Montopoli, L. Bernardini, K. De Sanctis, E. Anagnostou, M. Anagnostou, Y. Fessas, A. Volpi, A. Telleschi, J. Kalogiros, V. Cazac, and R. Pace: "Coupling X-band dual-polarized mini-radar and hydro-meteorological forecast models: the HydroRad project", 13th Plinius Conference on Mediterranean Storms, Savona, Italy, 7-9 September 2011.
73. M. N. Anagnostou, J. Kalogiros, J. V. Baeten, F. S. Marzano, T. G. Chronis, J. A. Nystuen, M. Montopoli, E. N. Anagnostou, and E. Picciotti: "Advancing Hydrometeorological use of Multi-Instruments for Experimental Investigation of Precipitation Structure, Dynamics and Microphysics in Eastern Mediterranean: HYDREX", 13th Plinius Conference on Mediterranean Storms, Savona, Italy, 7-9 September 2011.
74. Wang Q., J. Kalogiros, S. R. Ramp, J. Paduan, G. Buzorius, and H. Jonsson, (2010): "Wind stress curl and coastal upwelling in the area of Monterey Bay". *9th Conference on Coastal Atmospheric and Oceanic Prediction and Processes*, 26-29 September 2010, Annapolis, MD, USA.
75. Anagnostou M., J. Kalogiros, E. Anagnostou, A. Papadopoulos, F. Marzano, M. Montopoli, and E. Picciotti, (2010): "Performance comparison of dual-polarization X-band path attenuation and rainfall microphysical estimates with measured disdrometer raindrop spectra". *6th European Conference on Radar in Meteorology and Hydrology* (ERAD), Sibiu, Romania, 6-10 September 2010.
76. Safiolea E., C. Papathanasiou, J. Kalogiros, and M. Mimikou, (2010): "Analysis and application of polarimetric radar precipitation estimates to support a flood risk study in an urban setting". *6th European Conference on Radar in Meteorology and Hydrology* (ERAD), Sibiu, Romania, 6-10 September 2010.
77. Marzano F.S., E. Picciotti, L. Bernardini, K. De Sanctis, G. Cinque, M. Montopoli, S. Di Fabio, E. Anagnostou, M. Anagnostou, Y. Fessas, J. Kalogiros, A. Volpi, R. Pace, and V. Caza, (2010): "HydroRad project: integrating X-band mini-radar networks and hydro-meteorological forecast models in Moldova territory". *6th European Conference on Radar in Meteorology and Hydrology* (ERAD), Sibiu, Romania, 6-10 September 2010.
78. Anagnostou M. N., J. Kalogiros, E. N. Anagnostou, A. Papadopoulos, F. Marzano, M. Montopoli, and E. Picciotti, (2010): "Advances in high-resolution X-band dual-polarization rainfall and drop-size distribution estimation". *10th International Precipitation Conference*, Coimbra, Portugal, 23-25 June 2010.
79. Anagnostou M.N., J. Nystuen, J. Kalogiros, G. Potiriadis, E. N. Anagnostou, G. Alexakis, A. Papadopoulos, D. Ballas, K. Nittis, P. Pagonis, L. Perivoliotis, and D. Georgopoulos, (2010): "Evaluation of underwater acoustic estimates through comparison with buoy anemometer and radar measurements". *10th*

International Conference on Meterology, Climatology and Atmospheric Physics, 25-28 May 2010, Patra, Greece.

80. Anagnostou, E.N., E. Morin, M. Anagnostou, J. Kalogiros, E. Dimitriou, and T. Chronis (2010): "SOP/EOP Implementation Plan - Overview for the Eastern Mediterranean Target Area," 4th HyMeX International Workshop, Bologna, Italy, June 2010.
81. Wang Q., N. Konstantinou, R. W. Garwood, S. Wang, K. Rados, J. Kalogiros, W. K. Melville, D. Khelif, and C. A. Friehe, (2009): "Ocean mixed Layer Response to Gap Wind Scenarios", *16th Conference on Air-Sea Interaction*, AMS, 10-15 January 2009, Phoenix, AZ.
82. Wang, Q., R. C. Cherrett, S. W. Wang, J. Kalogiros, K. Rados, C. A. Friehe, and D. Khelif, (2009): "Observed and Simulated Temporal and Spatial Variations of Gap Outflow Region", *8th Conference on Coastal Atmospheric and Oceanic Prediction and Processes*, AMS, 10-15 January 2009, Phoenix, AZ.
83. Marzano, F.S., Picciotti, E., Anagnostou, E.A., Anagnostou, M.A., Volpi, A., Kalogiros, J., Cazac, V., and Sanna, F., (2008): "HYDROCELL: design and implementation of integrated hydrometeorological system based on cellular network of X-band mini-radars". *WMO RA VI Technical Conference: Role of the NMHSs in prevention and mitigation of natural hazards impacts*, Chisinau, Moldova, 9-10 October 2008.
84. Wang, Q. , J. Kalogiros, S. Ramp, J. Paduan, G. Buzorius and H. Jonsson, (2008): "Wind stress and stress curl from aircraft measurements and their connection to local coastal upwelling", *18th Symposium on Boundary Layers and Turbulence*, AMS, 9-13 June 2008, Stockholm, Sweden.
85. Anagnostou, M.N., Tarolli, M., Kalogiros, J., Anagnostou, E.N., Borga, M., and Papadopoulos,A. (2008): "Rainfall measurements of X-band Polarimetric Weather Radar in Complex Terrain", *5th European Conference on Radar in Meteorology and Hydrology (ERAD 2008)*, Helsinki, Finland, 30 June-4 July 2008.
86. Kalogiros, J. (2008): "Reconstruction of Doppler spectra of weather radars from irregular pulse repetition time", *5th European Conference on Radar in Meteorology and Hydrology (ERAD 2008)*, Helsinki, Finland, 30 June-4 July 2008.
87. Anagnostou , M.N., Tarolli, M., Kalogiros, J., Anagnostou, E.N., Papadopoulos, A., Borga, M., and Zanon, F. (2008): "Performance of Rainfall Algorithms from Mobile X-band Dual-Polarization Radar over Complex Terrain: Result from the 2006-2007 Hydrate Project". *EGU General Assembly 2008*, Vienna, Austria, 13–18 April 2008.
88. Anagnostou , M.N., Tarolli, M., Anagnostou, E.N., Kalogiros, J., Borga, M., and Papadopoulos, A. (2008): "Experimental results on rainfall estimation in complex terrain with a mobile X-band polarimetric radar". *International Symposium on Weather Radar and Hydrology 2008*. Grenoble, France, 10-15 March 2008.
89. Anagnostou, M., Kalogiros, J., and E. Anagnostou, (2007):"Evaluation of quantitative rainfall estimation by X-band dual-polarization radar observations", *9th Plinius Conference on Mediterranean Storms*, Varennna, Italy, 10–13 September 2007.

90. Papathanasiou, C., Safiolea, E., Kalogiros, J., and M. Mimikou, (2007): "Comparative analysis of rain gauge and radar precipitation estimates in the Attiki area", *10th International Conference on Environmental Science and Technology*, Kos island, Greece, 5–7 September 2007.
91. Kalogiros, J., M. Anagnostou and E. Anagnostou, (2006): Rainfall retrieval from polarimetric X-band radar measurements. *4th European Conference on Radar in Meteorology and Hydrology (ERAD 2006)*, Barcelona, Spain, 18-22 September, 2006.
92. Kalogiros, J., Q. Wang, S. Ramp, G. Buzorius and H. Jonsson, (2006): Aircraft observations of marine boundary layer structure in the area of Monterey Bay. *17th Symposium on Boundary Layers and Turbulence*, San Diego, 22-25 May, 2006.
93. Wang, Q., M.S. Horner, S. Wang and J. Kalogiros, (2006): Entrainment and the fine structure of the stratocumulus topped boundary layers. *17th Symposium on Boundary Layers and Turbulence*, San Diego, 22-25 May, 2006.
94. Kalogiros, J., M. Anagnostou and E. Anagnostou, (2006): Performance of algorithms for rainfall retrieval from polarimetric X-Band measurements. *General Assembly 2006, European Geosciences Union*, Vienna, Austria, 2-7 April, 2006.
95. Paduan, J.D., S. Ramp, T. Anderson, Q. Wang, J. Doyle, H. Jonsson and J. Kalogiros (2006): Headland-scale wind stress curl around Monterey Bay from aircraft and nested COAMPS™ model results. *13th Ocean Sciences Meeting, American Geophysical Union*, Honoloulu, Hawaii, 20-24 February, 2006.
96. Kalogiros, J., Q. Wang, S. Ramp, G. Buzorius and H. Jonsson, (2006): Measurements of near-surface air turbulence fluxes in the coastal zone during AOSN-II. *13th Ocean Sciences Meeting, American Geophysical Union*, Honoloulu, Hawaii, 20-24 February, 2006.
97. Buzorius G., J. Kalogiros and T. Varutbangkul, (2005): Aerosol flux measurements from the airplane. *24th Annual American Association for Aerosol Research Conference*, Austin, Texas, 17-21 October, 2005.
98. Helmis, C.G, Q. Wang, G. Katsouvas, Z. Gao, C.H. Halios, J.A. Kalogiros, S. Wang, G. Sgouros and J. Edson, (2005): On the turbulent structure of the marine atmospheric boundary layer from the CBLAST Nantucket measurements. *9th International Conference on Environmental Science and Technology*, Rhodos Island , Greece, 1-3 September 2005, p. A579-A586.
99. Kalogiros, J.A., Q. Wang, S. Ramp, G. Buzorius, and H. Jonsson, (2005): Turbulence surface fluxes in the cloudy marine atmospheric boundary layer near the coast. *6th Conference on Coastal Atmospheric and Oceanic Prediction and Processes*, American Meteorological Society, San Diego, 9-13 January 2005.
100. Kalogiros, J.A., and Q. Wang, (2004): Variations of sea surface fluxes in the coastal region. *16th Symposium on Boundary Layers and Turbulence*, American Meteorological Society, Portland, Main, 8-13 August 2004.
101. Wang, Q., C.G. Helmis, Z. Gao, J.A. Kalogiros and S. Wang (2004): Variations of Boundary Layer mean and turbulence structure using synthesized observations, *16th Symposium on Boundary Layers and Turbulence*, American Meteorological Society, Portland, Main, 8-13 August 2004.

102. Kalogiros, J.A., Q. Wang, and C.G. Helmis (2004): Turbulence statistics in coastal stratocumulus from acoustic sounder measurements. *12th International Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans*, Cambridge, UK, 11-16 July 2004.
103. Wang, Q., C.G. Helmis, Z. Gao, J.A. Kalogiros and S. Wang (2004): "Characteristics of Boundary Layer Observed From an Island ", *Ocean Sciences Meeting, American Geophysical Union*, Portland, Oregon, USA, 26-30 January 2004.
104. Michopoulos, J.A., C.G. Helmis, Q. Wang, J.A. Kalogiros, Z. Gao and D.N. Asimakopoulos (2003): "An experimental study of the vertical structure of the marine atmospheric boundary layer", Proceedings of the *8th International Conference on Environmental Science and Technology*, Lemnos Island, Greece, 8 – 10 September 2003, Vol. A, pp. 601 – 608.
105. Kalogiros, J. and Q. Wang (2002): "Observations of stratocumulus entrainment in the coastal zone", *15th Symposium on Boundary Layers and Turbulence, American Meteorological Society*, Wageningen, Netherlands, 15-19 July, 205-208.
106. Rados K, Wang Q, Kalogiros J, Lange B. (2002): "Evaluation of boundary layer parameterizations in a mesoscale model for offshore wind energy applications". *Global WindPower Conference*, 2-5 April 2002, Paris.
107. Rados, K., Wang, Q., Wang, S., Kalogiros, J., Khelif, D. and C. Friehe (2002): "Evaluation of marine boundary layer parameterizations in COAMPS using the JES experiment data set", *15th Symposium on Boundary Layers and Turbulence, American Meteorological Society*, Wageningen, Netherlands, 15-19 July, 632-635.
108. Wang, Q., Helmis, C., Kalogiros, J. and K. Rados (2002): "Observation of turbulence and break-up of coastal stratocumulus using an acoustic sounder", *11th International Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans*, Rome, Italy, 24-28 June, 383-386.
109. Kalogiros, J., and Q. Wang, (2001): "The California low-level coastal jet and nearshore stratocumulus", *4th Conference on Coastal Atmospheric and Oceanic prediction and processes, American Meteorological Society*, St. Petersburg, Florida, 6-9 November, 1-4.
110. Helmis, C.G., H.A. Flocas, J.A. Kalogiros, and V.D. Assimakopoulos, (2001): "Background measurements related to transboundary air pollution over Greece", *7th International Conference on Environmental Science and Technology*, Siros, Greece, 3-6 September, Vol. A, 325-332.
111. Wang, Q., K. Rados, J. Kalogiros, H. Zuo, S. Wang, C. Friehe, D. Khelif, and H. Jonsson, (2001): "Boundary layer turbulence and surface flux parameterizations in a mesoscale model - verification with aircraft measurements", *9th Conference on Mesoscale Processes, American Meteorological Society*, Ft. Lauderdale, Florida, 30 July-2 August.
112. Wang, Q., H. Zuo, J. Kalogiros, C. Friehe, D. Khelif and H. Jonsson, (2000): "Evaluation of surface flux and Boundary Layer Parameterizations in COAMPS using JES aircraft measurements", *Fall Meeting 2000, American Geophysical Union*, San Francisco, 15-19 December.

113. Kalogiros, J.A., and Q. Wang, (2000): "Analysis of a radome-differential GPS system on a small research aircraft for wind turbulence measurements near the California coast", *Fall Meeting 2000, American Geophysical Union*, San Francisco, 15-19 December.
114. Asimakopoulos, D.N., C.G. Helmis, J. Kalogiros and H.A. Flocas, (2000): Results from the operational use of a new technology sodar-Rass profiling system", *10th International Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans*, Auckland, New Zealand, 27 November-1 December.
115. Helmis, C.G., H. A. Flocas, J. Kalogiros and D.N. Asimakopoulos, (2000): "Remote and in situ measurements of local flows generated by a knife-edge mountain", *26th International Conference on Alpine Meteorology*, Innsbruck, Austria, 11-15 September.
116. Kouroupetroglou, G., C. Viglas, A. Pino, D. Deligiorgi and J. Kalogiros, (2000): "Hippodamus: A WWW based expanded learning environment", *International Conference on Mathematics/Science education and Technology*, San Diego, 5-8 February.
117. Asimakopoulos, D.N., C.G. Helmis, H.A. Flocas and J.A. Kalogiros (1998) "Observations of strong slope winds downstream of a steep mountain using sodar data", *9th International Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans*, Vienna, Austria, 6-10 July, 269-272.
118. Helmis, C.G., J.A. Kalogiros and D.N. Asimakopoulos (1998) "Estimation of the temperature gradient in stable layers using an acoustic sounder", *9th International Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans*, Vienna, Austria, 6-10 July, 227-230.
119. Helmis, C.G., D.N. Asimakopoulos, E. Floka, A. Papadopoulos, P.G. Papageorgas and J.A. Kalogiros (1996) "Observation of wave disturbances in the lee side of a steep mountain using acoustic sounders", *8th International Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans*, Moscow, Russia, 27-31 May, 7.19-7.24.
120. Asimakopoulos, D.N., C.G. Helmis and J.A. Kalogiros (1996) "Quantitative estimation of CBL parameters using the vertical velocity and echo intensity measurements of an acoustic sounder", *8th International Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans*, Moscow, Russia, 27-31 May, G.85-G.96.
121. Kalogiros, J.A., C.G. Helmis, P.G. Papageorgas and D.N. Asimakopoulos (1995) "A study of the ABL thermal structure over Messogia Plain using one year sodar facsimile record", *3rd International Conference, Air Pollution 95*, Porto Carras, Greece, 26-29 September, 3, 153-160.
122. Helmis, C.G., D.N. Asimakopoulos, K.H. Papadopoulos, J.A. Kalogiros, P. Kassomenos, P.G. Papageorgas and S. Blikas (1995) "Air mass exchange between the Athens Basin and the Messogia Plain", *3rd International Conference, Air Pollution 95*, Porto Carras, Greece, 26-29 September, 3, 115-129.
123. Asimakopoulos, D.N., C.G. Helmis, K.H. Papadopoulos, J.A. Kalogiros, A.T. Soilemes and M. Petrakis (1995) "Features of the Athens Basin wind flow in view of recent experimental work", *3rd International Conference, Air Pollution 95*, Porto Carras, Greece, 26-29 September, 3, 1-15.

124. Kalogiros, J.A., D.N. Asimakopoulos, C.G. Helmis, P.G. Papageorgas and A.T. Soilemes (1994) "Estimation of the first inversion height and the surface momentum and heat fluxes using the σ_w^2 profile method on the sodar data", *7th Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans*, Boulder, Colorado, 3-7 October 1994, 2, 13-18.
125. Helmis, C.G., J.A. Kalogiros, D.N. Asimakopoulos, P.G. Papageorgas, A.T. Soilemes and M. Petrakis (1994) "Statistical analysis of sodar facsimile record over an urban area using an automated pattern recognition technique", *7th International Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans*, Boulder, Colorado, 3-7 October 1994, 7, 1-6.
126. Helmis, C.G., J.A. Kalogiros, K.H. Papadopoulos, A.T. Soilemes and D.N. Asimakopoulos (1994) "Estimation of the atmospheric surface momentum and heat fluxes using a high resolution acoustic radar", *3rd French Conference on Acoustics*, Toulouse, France, 2-6 May 1994.
127. Helmis, C.G., J.A. Kalogiros, K.H. Papadopoulos and A.T. Soilemes (1993) "On the study of the Marine Atmospheric Boundary Layer using acoustic radars", *MAST days and Euromar market*, Brusseles, 15-17 March 1993.