

CURRICULUM VITAE

PERSONAL DETAILS

Name: Christos Lolis
Patronym: Ioannis
Date of birth: August 13, 1973
Place of birth: Athens
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EDUCATION

- ❑ 1995: Physics Degree (very good: 7.46) – University of Ioannina, Greece
- ❑ 1999: Master's Degree in Meteorology and Climatology (Department of Physics, University of Ioannina)
- ❑ 2002: PhD in Meteorology and Climatology (Department of Physics, University of Ioannina)

PROFESSIONAL CAREER

2003-2005: Postdoctoral Researcher in the University of Ioannina
2005-2008: Postdoctoral Researcher in the University of Ioannina and
Scientific Cooperator in the Technological Educational Institute of Messolonghi
2008-2010: Environmental Scientist in the Prefecture of Fthiotida (Central Greece)
2010-2015: Lecturer in the Department of Physics of the University of Ioannina
2015- : Assistant Professor in the Department of Physics of the University of Ioannina

RESEARCH INTERESTS

- ❑ Climatology with emphasis on the Mediterranean climate – Climatic change
- ❑ Meteorology with emphasis on weather forecasting – Extreme weather events
- ❑ Biometeorology - Bioclimatology

PUBLICATIONS

A) MSc Dissertation

Lolis CJ. 1998: Winter temperature covariances in the middle and the lower troposphere over Europe and the North Atlantic Ocean (University of Ioannina, 109pp) (in Greek).

B) PhD thesis

Lolis CJ. 2002: Contribution to the study of lower troposphere - sea surface interaction over the Mediterranean Sea and the North Atlantic Ocean (University of Ioannina, 155pp) (in Greek).

C) Publications in Peer-Reviewed International Journals

- 1) Lolis CJ, Bartzokas A, Metaxas DA. 1999: Spatial covariability of the climatic parameters in the Greek area. *International Journal of Climatology* **19**: 185-196.
- 2) Danielides V, Patrikakos G, Nousia Ch-S, Bartzokas A, Milionis HJ, Lolis CJ, Skevas A. 2001: Weather conditions and Bell's palsy: five-year study and review of literature. *BMC Neurology* **1**: 7 (<http://www.biomedcentral.com/1471-2377/1/7>).
- 3) Lolis CJ, Bartzokas A. 2001: Winter temperature covariances in the middle and the lower troposphere over Europe and the North Atlantic Ocean. *International Journal of Climatology* **21**: 679-696.
- 4) Danielides V, Kontogiannis N, Bartzokas A, Lolis CJ, Skevas A. 2002: The influence of meteorological factors on the frequency of epistaxis. *Clinical Otolaryngology and Allied Sciences* **27**: 84-88.
- 5) Danielides V, Nousia Ch-S, Bartzokas A, Lolis CJ, Kateri M, Skevas A. 2002: Weather conditions and sudden sensorineural hearing loss. *BMC Ear, Nose and Throat Disorders* **2**: 2 (<http://www.biomedcentral.com/1472-6815/2/2>).
- 6) Danielides V, Nousia Ch-S, Patrikakos G, Bartzokas A, Lolis CJ, Milionis HJ, Skevas A. 2002: Effect of meteorological parameters on acute laryngitis in adults. *Acta Otolaryngologica* **122**: 655-660.
- 7) Lolis CJ, Bartzokas A, Katsoulis BD. 2002: Spatial and temporal 850 hPa air temperature and sea-surface temperature covariances in the Mediterranean region and their connection to atmospheric circulation. *International Journal of Climatology* **22**: 663-676.
- 8) Bartzokas A, Lolis CJ, Metaxas DA. 2003: A study on the intra-annual variation and the spatial distribution of precipitation amount and duration over Greece on a 10 day basis. *International Journal of Climatology* **23**: 207-222.
- 9) Kassomenos PA, Sindosi OA, Lolis CJ, Chaloulakou A. 2003: On the relation between seasonal synoptic circulation types and spatial air quality characteristics in Athens, Greece. *Journal of the Air & Waste Management Association* **53**: 309-324.
- 10) Bartzokas A, Lolis CJ, Metaxas DA. 2003: The 850 hPa relative vorticity centres of action for winter precipitation in the Greek area. *International Journal of Climatology* **23**: 813-828.
- 11) Kassomenos PA, Sindosi OA, Lolis CJ. 2003: Seasonal variation of the circulation types occurring over southern Greece: A 50-year study. *Climate Research* **24**: 33-46.
- 12) Lolis CJ, Bartzokas A, Katsoulis BD. 2004: Relation between sensible and latent heat fluxes in the Mediterranean and precipitation in the Greek area during winter. *International Journal of Climatology* **24**: 1803-1816.
- 13) Houssos EE, Lolis CJ, Bartzokas A. 2007: The atmospheric conditions over Europe and the Mediterranean, favoring snow events in Athens, Greece. *Advances in Geosciences* **12**: 127-135.

- 14) Lolis CJ. 2007: Climatic features of atmospheric stability in the Mediterranean region (1948-2006): spatial modes, inter-monthly and inter-annual variability. *Meteorological Applications* **14**: 361-379.
- 15) Lolis CJ, Metaxas DA, Bartzokas A. 2008: On the intra-annual variability of atmospheric circulation in the Mediterranean region. *International Journal of Climatology* **28**: 1339-1355.
- 16) Houssos EE, Lolis CJ, Bartzokas A. 2008: Atmospheric circulation patterns associated with extreme precipitation amounts in Greece. *Advances in Geosciences* **17**: 5-11.
- 17) Lolis CJ. 2009: Winter cloudiness variability in the Mediterranean region and its connection to atmospheric circulation features. *Theoretical and Applied Climatology* **96(3-4)**: 357-373.
- 18) Metaxas DA, Bartzokas A, Lolis CJ, Philandras CM. 2009: Contribution to the seasonal air temperature forecast in the northern hemisphere; a statistical approach. *Fresenius Environmental Bulletin* **18(3)**: 253-260.
- 19) Houssos EE, Lolis CJ, Bartzokas A. 2009: The main characteristics of atmospheric circulation associated with fog in Greece. *Natural Hazards and Earth System Sciences* **9**: 1857-1869.
- 20) Bartzokas A, Kotroni V, Lagouvardos K, Lolis CJ, Gkikas A, Tsirogianni MI. 2010: Weather forecast in north-western Greece: RISKMED warnings and verification of MM5 model. *Natural Hazards and Earth System Sciences* **10**: 383-394.
- 21) Bartzokas A, Azzopardi J, Bertotti L, Buzzi A, Cavaleri L, Conte D, Davolio S, Dietrich S, Drago A, Drofa O, Gkikas A, Kotroni V, Lagouvardos K, Lolis CJ, Michaelides S, Miglietta M, Mugnai A, Music S, Nikolaides K, Porc`u F, Savvidou K, Tsirogianni MI. 2010: The RISKMED project: philosophy, methods and products. *Natural Hazards and Earth System Sciences* **10**: 1393–1401.
- 22) Lolis CJ. 2012: Winter convective precipitation variability in south-eastern Europe and its connection to middle tropospheric circulation for the 60-year period 1950-2009. *Theoretical and Applied Climatology* **107(1)**: 189-200.
- 23) Houssos EE, Lolis CJ, Gkikas A, Hatzianastassiou N, Bartzokas A. 2012: On the atmospheric circulation characteristics associated with fog in Ioannina, North-Western Greece. *International Journal of Climatology* **32**: 1847-1862.
- 24) Papadimas CD, Bartzokas A, Lolis CJ, Hatzianastassiou N. 2012: Sea level pressure – air temperature teleconnections during northern hemisphere winter. *Theoretical and Applied Climatology* **108**: 173–189.
- 25) Sanchez-Lorenzo A, Pereira P, Lopez-Bustins JA, Lolis CJ. 2012: Summer night-time temperature trends on the Iberian Peninsula and their connection with large-scale atmospheric circulation patterns. *International Journal of Climatology* **32**: 1326-1335.
- 26) Lolis CJ, Bartzokas A, Lagouvardos K, Metaxas DA. 2012: Intra-annual variation of atmospheric static stability in the Mediterranean region: a 60-year climatology *Theoretical and Applied Climatology* **110**: 245-261.
- 27) Lolis CJ. 2012: High-resolution precipitation over the southern Balkans. *Climate Research* **55**: 167-179.
- 28) Efstathiou GA, Zoumakis NM, Melas D, Lolis CJ, Kassomenos P. 2013: Sensitivity of WRF to boundary layer parameterizations in simulating a heavy rainfall event using different microphysical schemes. Effect on large-scale processes. *Atmospheric Research* **132-133**: 125-143.
- 29) Bartzokas A, Lolis CJ, Kassomenos P, McGregor GR. 2013: Climatic characteristics of summer human thermal discomfort in Athens and its connection to atmospheric circulation. *Natural Hazards and Earth System Sciences* **13**: 3271–3279.

- 30) Efstathiou GA, Lolis CJ, Zoumakis NM, Kassomenos P, Melas D. 2014: Characteristics of the atmospheric circulation associated with cold-season heavy rainfall and flooding over a complex terrain region in Greece. *Theoretical and Applied Climatology* **115(1-2)**: 259-279.
- 31) Gkikas A, Houssos EE, Lolis CJ, Bartzokas A, Mihalopoulos N, Hatzianastassiou N. 2015: Atmospheric circulation evolution related to desert dust episodes over the Mediterranean. *Quarterly Journal of the Royal Meteorological Society* **141(690)**: 1634-1645.
- 32) Serbis E, Lolis CJ, Kassomenos PA. 2015: Atmospheric circulation characteristics associated with daytime extreme static instability over Athens, Greece. *Climate Research* **64**: 111-122.
- 33) Petcu D, Iuhasz G, Pop D, Talia D, Carretero J, Prodan R, Fahringer T, Grasso I, Doallo R, Martín MJ, Fraguera BB, Trobec R, Depolli M, Rodriguez FA, De Sande F, Da Costa G, Pierson J-M, Anastasiadis S, Bartzokas A, Lolis CJ, Gonçalves P, Brito F, Brown N. 2015: On processing extreme data. *Scalable Computing* **16(4)**: 467-490.
- 34) Gaitanis G, Lolis CJ, Tsartsarakis A, Kalogeropoulos C, Levidiotou-Stefanou S, Bartzokas A, Bassukas I. 2016: An aggregate of four anthrax cases during the dry summer 2011 in Epirus, Greece. *Dermatology* **232(1)**: 112-116.
- 35) Dafis S, Lolis CJ, Houssos EE, Bartzokas A. 2016: The atmospheric circulation characteristics favoring snowfall in an area with complex relief in Northwestern Greece. *International Journal of Climatology* **36(10)**: 3561-3577.
- 36) Hatzianastassiou N, Papadimas CD, Lolis CJ, Bartzokas A, Levizzani V, Pnevmatikos J, Katsoulis V. 2016: Spatial and temporal variability of precipitation over the Mediterranean Basin based on 32-year satellite Global Precipitation Climatology Project data. Part-I: evaluation and climatological patterns. *International Journal of Climatology* **36(15)**: 4741-4754.
- 37) Hatzianastassiou N, Papadimas CD, Lolis CJ, Bartzokas A, Levizzani V, Pnevmatikos J, Katsoulis V. 2016: Spatial and temporal variability of precipitation over the Mediterranean Basin based on 32-year satellite Global Precipitation Climatology Project data. Part-II: inter-annual variability and trends. *International Journal of Climatology* **36(15)**: 4755-4766.
- 38) Lolis CJ, Turkeş M. 2016: Atmospheric circulation characteristics favoring extreme precipitation in Turkey. *Climate Research* **71**: 139-153.
- 39) Tsaouri S, Gkoutisias A, Lolis CJ, Makis A, Chaliasos B, Bartzokas A. 2017: Impact of meteorological factors on the emergence of bronchiolitis in Northwestern Greece. *Allergologia et Immunopathologia* **46(1)**: 24-30.
- 40) Lolis CJ. 2017: A climatology of convective available potential energy in the Mediterranean region. *Climate Research* **74**: 15-30.
- 41) Ioannidis E, Lolis CJ, Papadimas CD, Hatzianastassiou N, Bartzokas A. 2018: On the intra-annual variation of cloudiness over the Mediterranean region. *Atmospheric Research* **208**: 246-256.
- 42) Gatidis C, Lolis CJ, Lagouvardos K, Kotroni V, Bartzokas A. 2018: On the seasonal variability and the spatial distribution of lightning activity over the broader Greek area and their connection to atmospheric circulation. *Atmospheric Research* **208**: 180-190.
- 43) Kotsias G, Lolis CJ. 2018: A study on the total cloud cover variability over the Mediterranean region during the period 1979-2014 with the use of the ERA-Interim database. *Theoretical and Applied Climatology* **134(1-2)**: 325-336.
- 44) Christofilakis V, Tatsis G, Votis CT, Chronopoulos SK, Kostarakis P, Lolis CJ, Bartzokas A. 2018: Rainfall Measurements Due to Radio Frequency Signal Attenuation at 2 GHz. *Journal of Signal and Information Processing* **9**: 192-201.
- 45) Lolis CJ, Kotsias G, Bartzokas A. 2018: Objective definition of climatologically homogeneous areas in the Southern Balkans based on the ERA5 data set. *Climate* **6(4)**: Article number 96.

- 46) Kotsias G, Lolis CJ, Hatzianastassiou N, Levizzani V, Bartzokas A. 2020: On the connection between large-scale atmospheric circulation and winter GPCP precipitation over the Mediterranean region for the period 1980-2017. *Atmospheric Research* **233**: Article number 104714.
- 47) Christofilakis V, Tatsis G, Lolis CJ, Chronopoulos SK, Kostarakis P, Bartzokas A, Nistazakis HE. 2020: A rain estimation model based on microwave signal attenuation measurements in the city of Ioannina, Greece. *Meteorological Applications* **27(4)**: e1932.
- 48) Lolis CJ, Kotsias G. 2020: The use of weather types in the definition of seasons; the case of Southern Balkans. *Theoretical and Applied Climatology* **142**: 1199-1219.
- 49) Kotsias G, Lolis CJ, Hatzianastassiou N, Lionello P, Bartzokas A. 2020: An objective definition of seasons for the Mediterranean region. *International Journal of Climatology* (in press).
- 50) Kotsias G, Lolis CJ, Hatzianastassiou N, Lionello P, Bartzokas A. 2020: A comparison of different approaches for the definition of seasons in the Mediterranean region (under preparation).

D) Presentations in Scientific Conferences

- 1) Lolis CJ, Bartzokas A, Metaxas DA. 1996: Spatial covariability of the climatic parameters in the Greek area. *Proceedings of the 3rd Hellenic Scientific Conference on Meteorology, Climatology and Atmospheric Physics (Athens, September 25-27, 1996)*. 62-70 (in Greek).
- 2) Bartzokas A, Lolis CJ. 2000: Sea Surface Temperature - 850hPa Relative Vorticity Relations in the Mediterranean Region during Winter. *Proceedings of the International Conference: «The Mediterranean: Culture, Environment and Society» (University of Haifa, May 22-25, 2000)*. 165-173.
- 3) Bartzokas A, Lolis CJ, Metaxas DA. 2000: A study on the intra-annual variation and the spatial distribution of precipitation in the Greek area on a 10 day basis. *Proceedings of the 5th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Thessaloniki, September 28-30, 2000)*. 285-293 (in Greek).
- 4) Lolis CJ, Bartzokas A, Katsoulis BD. 2000: Temperature covariances between the lower troposphere and the sea surface in the Mediterranean area. *Proceedings of the 5th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Thessaloniki, September 28-30, 2000)*. 295-304 (in Greek).
- 5) Lolis CJ, Sindosi OA, Bartzokas A. 2001: Objective classification of the synoptic conditions favoring winter rainfall in the Athens area. *Proceedings of the 4th Hellenic Environmental Conference (Kalabaka, January 26-28, 2001), Association of Greek Physicists*. 39-42 (in Greek).
- 6) Metaxas DA, Bartzokas A, Lolis CJ, Philandras CM. 2002: Contribution to the seasonal air temperature forecast in the northern hemisphere with the use of statistical methods. *Proceedings of the 6th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Ioannina, September 25-28, 2002)*. 172-185 (in Greek).
- 7) Bartzokas A, Lolis CJ, Metaxas DA. 2002: 850hPa relative vorticity centers of action for winter precipitation in the Greek area. *Proceedings of the 6th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Ioannina, September 25-28, 2002)*. 559-573.
- 8) Lolis CJ, Bartzokas A, Katsoulis BD. 2002: Relation between sensible and latent heat fluxes in the Mediterranean and precipitation in the Greek area during winter. *Proceedings of the 6th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Ioannina, September 25-28, 2002)*. 681-693.
- 9) Nousia CS, Danielides V, Patrikakos G, Bartzokas A, Lolis CJ, Skevas A. 2002: Effect of meteorological parameters on acute laryngitis in adults. *Proceedings of the 6th Hellenic*

- Conference on Meteorology, Climatology and Atmospheric Physics (Ioannina, September 25-28, 2002)*. 745-751.
- 10) Sindosi OA, Lolis CJ, Kassomenos PA. 2002: Expected circulation types during 2004 Olympics. *Proceedings of the 6th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Ioannina, September 25-28, 2002)*. 385-393 (in Greek).
 - 11) Gryparis A, Sindosi OA, Lolis CJ, Katsougianni K, Kassomenos PA. 2002: Effects of climatic conditions on the daily mortality in Athens, Greece. *Proceedings of the 6th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Ioannina, September 25-28, 2002)*. 591-597.
 - 12) Lolis CJ, Kassomenos PA, Bartzokas A. 2004: An objective daily weather type classification for Athens, using 3-hourly meteorological data for the period 1992-2001. *Proceedings of the 7th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Nicosia, September 28-30, 2004)*. 646-654 (in Greek).
 - 13) Lolis CJ, Metaxas DA, Bartzokas A. 2006: Intra-annual variability of atmospheric circulation in the Mediterranean region. *Proceedings of the 8th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Athens, May 24-26, 2006)*. 330-337 (in Greek).
 - 14) Stagakis S, Levizou E, Markos N, Sykioti O, Elias P, Kontoes Ch, Lolis CJ, Bartzokas A, Kyparissis A. 2006: The use of NDVI time-series for the study of ecosystem dynamics of two deciduous (*Fagus sylvatica*, *Quercus* sp.) and one conifer (*Pinus nigra*) forest. *XV Congress of the Federation of European Societies of Plant Biology (Lyon, France, July 17-21, 2006)*.
 - 15) Houssos EE, Lolis CJ, Bartzokas A. 2006: The atmospheric conditions over Europe and the Mediterranean, favouring snowfall events in Athens, Greece. *8th EGU Plinius Conference on Mediterranean Storms and extreme events in an era of climate change (Dead Sea, Israel, October 17-20, 2006)*.
 - 16) Houssos EE, Lolis CJ, Bartzokas A. 2007: Atmospheric circulation patterns associated with extreme precipitation amounts in Greece. *9th EGU Plinius Conference on Mediterranean Storms (Varenna, Italy, September 10-13, 2007)* 47.
 - 17) Bartzokas A, Kotroni V, Lagouvardos K, Lolis CJ, Gkikas A, Tsirogianni MI. 2008: The "RISKMED" Project. *Proceedings of the 9th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Thessaloniki, May 28-31, 2008)*. 163-170 (in Greek).
 - 18) Lolis CJ, Metaxas DA, Bartzokas A, Lianou MK. 2008: The intra-annual variability of relative geostrophic vorticity in the middle and the lower troposphere over the Mediterranean region. *Proceedings of the 9th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Thessaloniki, May 28-31, 2008)*. 409-415 (in Greek).
 - 19) Tsirogianni MI, Lolis CJ, Bartzokas A. 2008: Air temperature covariability in the middle and the lower troposphere over the northern hemisphere during winter. *Proceedings of the 9th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Thessaloniki, May 28-31, 2008)*. 521-527 (in Greek).
 - 20) Houssos EE, Lolis CJ, Charantonis T, Ziakopoulos D, Bartzokas A. 2008: The main synoptic conditions favouring the formation of fog in Thessaloniki. *Proceedings of the 9th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics (Thessaloniki, May 28-31, 2008)*. 561-568 (in Greek).
 - 21) Hatzianastassiou N, Papadimas CD, Lolis CJ, Bartzokas A, Levizzani V, Pnevmatikos J. 2008: Spatial and temporal variation of precipitation over the Mediterranean Basin based on Global Precipitation Climatology Project satellite data. *10th Plinius Conference on Mediterranean Storms. EGU Topical Conference Series (Nicosia, Cyprus, September 22-24, 2008)*. Vol. 10, PLINIUS10-A-00096.

- 22) Tsirogianni MI, Lolis CJ, Bartzokas A. 2009: Winter air temperature covariability between the lower troposphere and higher tropospheric layers; the case of the North Atlantic Oscillation. *Proceedings of the 11th International Conference on Environmental Science and Technology*. (T. D. Lekkas ed.), Univ. of the Aegean (Chania, Crete, September 3-5, 2009). 1448-1456.
- 23) Lolis CJ, Bartzokas A, Metaxas DA. 2010: Intra-annual variability of atmospheric static instability in the Mediterranean region. *Proceedings of the 10th Hellenic Conference on Meteorology, Climatology and Atmospheric Physics* (Patra, Mařov 25-28, 2010). 641-648 (in Greek).
- 24) Lolis CJ. 2010: Inter-annual variability of winter convective precipitation in south-eastern Europe and its connection to middle tropospheric circulation. *12th EGU Plinius Conference on Mediterranean Storms* (Corfu, Greece, September 1-4, 2010) 34.
- 25) Lolis CJ, Bartzokas A. 2011: Spatial and temporal variability of the contribution of convection to winter precipitation in southeastern Europe. *EGU General Assembly 2011* (Vienna, Austria, April 3-8, 2011). Geophysical Research Abstracts Vol. 13, EGU2011-7708, 2011.
- 26) Bartzokas A, Lolis CJ, Kassomenos PA, McGregor GR. 2011: Climatic characteristics of summer human thermal discomfort in Athens and its connection to atmospheric circulation. *13th EGU Plinius Conference on Mediterranean Storms* (Savona, Italy, September 7-9, 2011) 53.
- 27) Gkikas A, Houssos EE, Lolis CJ, Bartzokas A, Mihalopoulos N, Hatzianastassiou N. 2011: Atmospheric circulation characteristics favouring the development of desert dust storms in the Mediterranean. *13th EGU Plinius Conference on Mediterranean Storms* (Savona, Italy, September 7-9, 2011) 58.
- 28) Gkikas A, Houssos EE, Lolis CJ, Bartzokas A, Mihalopoulos N, Hatzianastassiou N. 2011: The regime of dust episodes over the Mediterranean basin from contemporary satellites. *6th International Workshop on Sand/Duststorms and Associated Dustfall* (Athens, Greece, September 7-9, 2011).
- 29) Pereira P, Sanchez-Lorenzo A, Lopez-Bustins JA, Lolis CJ. 2012: Trends in summer tropical nights on the Iberian Peninsula and their connection with large-scale atmospheric circulation patterns. *EGU General Assembly 2012* (Vienna, Austria, April 22-27, 2012). Geophysical Research Abstracts Vol. 14, EGU2012-6263, 2012.
- 30) Lolis CJ, Bartzokas A, Katsoulis BD. 2012: On the climate characteristics of convection contribution to precipitation in southeastern Europe. *11th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2012* (Athens, May 29 – June 1, 2012), *Advances in Meteorology, Climatology and Atmospheric Physics, Springer Atmospheric Sciences* 571-576.
- 31) Serbis E, Lolis CJ, Kassomenos PA. 2012: Atmospheric circulation characteristics associated with high static instability conditions over the Athens region. *11th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2012* (Athens, May 29 – June 1, 2012), *Advances in Meteorology, Climatology and Atmospheric Physics, Springer Atmospheric Sciences* 717-722.
- 32) Varrias S, Lolis CJ, Houssos EE, Bartzokas A. 2014: Atmospheric circulation characteristics favoring precipitation in Cyclades Islands, southern Aegean. *12th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2014* (Heraklion, May 28-31, 2014) 301-306.
- 33) Pikridas C, Lolis CJ, Katsougiannopoulos S, Zinas N, Chaskos DC, Bartzokas A. 2015: Precipitable Water: Comparison between MM5 and GPS ZTD estimations for Northwestern Greece. *COST ES1206 Workshop* (Thessaloniki, May 11-14, 2015).

- 34) Dafis S, Lolis CJ, Bartzokas A, Gkousarov T. 2015: The characteristics of a High-Precipitation Tornadoic-Supercell in a metropolitan area of Northwest Greece. *9th HyMeX Workshop (Mykonos, September 21-25, 2015)*.
- 35) Gkoutisias A, Lolis CJ, Chaliasos B, Tsabouri S, Bartzokas A. 2015: Impact of the meteorological parameters on the emergence of bronchiolitis in NW Greece. *6th Hellenic Conference on Pediatric Allergy (Athens, October 9-11, 2015)* (in Greek).
- 36) Georgopoulos K, Houssos EE, Gkikas A, Papadimas CD, Lolis CJ, Bartzokas A. 2016: Deucalion: modern educational tools for precaution measures during extreme weather events. *13th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2016 (Thessaloniki, 19-21 September 2016)* 429-434.
- 37) Houssos EE, Fotiadi A, Lolis CJ. 2016: Atmospheric circulation characteristics favoring wet season prolonged spatially extended dry spells in Greece. *13th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2016 (Thessaloniki, 19-21 September 2016)* 497-502.
- 38) Dourou FP, Papadopoulos VP, Lolis CJ, Bartzokas A. 2016: A 50-Year climatology of sea-surface response to atmospheric circulation anomalies in the Mediterranean and the Black Seas during summer. *13th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2016 (Thessaloniki, 19-21 September 2016)* 503-508.
- 39) Gatidis C, Lolis CJ, Lagouvardos K, Kotroni V, Bartzokas A. 2016: A study on the intra-annual variation and the spatial distribution of lightning activity over Greece. *13th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2016 (Thessaloniki, 19-21 September 2016)* 621-627.
- 40) Ioannidis E, Lolis CJ, Bartzokas A. 2016: Seasonal variability of total cloud cover in the Mediterranean region for the period 1948–2014. *13th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2016 (Thessaloniki, 19-21 September 2016)* 629-634.
- 41) Ioannidis E, Lolis CJ, Papadimas CD, Hatzianastassiou N, Bartzokas A. 2017: Intra-annual variability of cloud cover over the Mediterranean region based on NCEP/NCAR, MODIS and ECAD data sets. *EGU General Assembly 2017 (Vienna, Austria, 23-28 April 2017)*. Geophysical Research Abstracts Vol. 19, EGU2017- 13956-1, 2017.
- 42) Tatsis G, Votis CI, Christofilakis V, Chronopoulos SK, Kostarakis P, Lolis CJ, Bartzokas A, Nistazakis HE. 2018: Rainfall events' correlation with S-band signal attenuation. *7th International Conference on Modern Circuits and Systems Technologies (MOCASST) (Thessaloniki, 13-15 May 2019)*.
- 43) Dourou FP, Papadopoulos VP, Lolis CJ, Bartzokas A. 2018: Sea-surface response to atmospheric circulation anomalies in the Mediterranean and the Black Seas during winter; a 50-year climatology. *14th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2018 (Alexandroupolis, 15-17 October 2018)* 156-161.
- 44) Kotsias G, Lolis CJ, Hatzianastassiou N, Bartzokas A. 2018: On the connection between the large-scale atmospheric circulation and the winter GPCP precipitation over the Mediterranean region for the period 1980-2017. *14th International Conference on Meteorology, Climatology and Atmospheric Physics COMECAP 2018 (Alexandroupolis, 15-17 October 2018)* 305-310.
- 45) Anagnostou MN, Kalogiros JA, Spyrou C, Varlas G, Papagelis G, Retalis A, Mentzafou A, Katsanos D, Katsafados P, Papadopoulos A, Chaskos D, Houssos E, Lolis CJ, Bartzokas A. 2019: A low-cost multi-platform system for early warning of extreme hydrometeorological events. *SafeCorfu 2019 – 6th International Conference on Civil Protection & New Technologies (Corfu, 6-9 November 2019)* I191-193.

- 46) Kotsias G, Lolis CJ, Hatzianastassiou N, Lionello P, Bartzokas A. 2020: An objective definition of seasons for the Mediterranean region based on synoptic weather types. *EGU General Assembly 2020 (Online, 4-8 May 2020)* EGU2020-7212.
- 47) Kolios S, Hatzianastassiou N, Lolis CJ. 2020: Evaluation of a satellite-based rain estimation algorithm using a network of meteorological stations. Preliminary results in a region with complex terrain. *The 3rd International Electronic Conference on Atmospheric Sciences (online, 13-30 November 2020)* ecas2020-08133.

E) Publications in Festschrifts

- 1) Spyropoulou P, Lolis CJ. 2014: Atmospheric circulation characteristics favoring the predominance of frost in the Ioannina region. *Festschrift in Honor of Professor Apostolos Flocas*, National and Kapodistrian University of Athens, 161-166 (in Greek).
- 2) Lolis CJ, Belimezis PA. 2017: A weather type classification for southeastern Europe. *Scientific publication in the memory of Professor A.G. Paliatsos*, Piraeus University of Applied Sciences and Hellenic Meteorological Society, Piraeus, 41-50.

CITATIONS (www.scopus.com)

(self-citations excluded)

Number of citations: 504

h-index: 14

BOOKS

Participation in the scientific team of English-Greek translation of the book
 Aguado E, Burt JE. 2013: *Understanding Weather and Climate*, 6th edition, Pearson College Div
 Scientific translation team: A. Bartzokas, C. Lolis, A. Gkikas, M. Tsirogianni, E. Houssos

PARTICIPATION IN RESEARCH AND OPERATIONAL PROJECTS

- 1) Cooperation between Greece and Britain (1996-97)
Title: Bioclimatic study of the main touristic regions of Greece
Scientific coordinator of the Greek side: B.D. Katsoulis
- 2) European Union Project (2003-04)
Title: Assessment and prevention of acute health effects of weather conditions in Europe (PHEWE)
Scientific coordinator: P. Kassomenos
- 3) Pythagoras II - Environment (2005-06)
Title: A study of the potential of the northern Pindus national park ecosystem with the use of satellite pictures
Scientific coordinator: A. Kyparissis
- 4) Support of Greek researchers (2005-08).
Title: Contribution to the valid forecast of extreme weather events in the Greek area with the use of multivariate statistical methods
Scientific coordinator: A. Bartzokas
- 5) Cooperation among Greece, Italy, Cyprus and Malta (INTERREG III) (2006-07)
Title: Weather Risk Reduction in the Central and Eastern Mediterranean (RISKMED)
Scientific coordinator: A. Bartzokas

- 6) Life Long Learning (2012-2014)
Title: Production of educational tools for students training on dealing with earthquakes and other natural hazards.
Scientific coordinator: T. Mikropoulos
- 7) Cooperation between Greece and Italy (2014-2015)
Title: «Ofidia: Operational fire danger prevention platform».
Scientific coordinator of the Greek side: S. Anastasiadis
- 8) Cooperation between Greece and Italy 2014-2020 (2018-2021)
Title: «Ofidia2: Operational fire danger prevention platform 2».
Scientific coordinator of the Greek side: S. Anastasiadis
- 9) Cooperation between Greece and Albania (2018-2021)
Title: «i-ALARMS: Ionian-Adriatic early warning monitoring system»
Scientific coordinator of the Greek side: A. Bartzokas
- 10) Operational Program «Epirus 2014-2020» (2019-2022)
Title: «Web-based platform for automated early information of the public and local authorities about severe weather events»
Scientific coordinator: N. Hatzianastassiou

COURSES TAUGHT

- 1) Program of undergraduate studies of the Department of Physics (University of Ioannina):
 - ❑ General Meteorology (2010- ..)
 - ❑ Atmospheric Physics (laboratory courses) (2014- ...)
 - ❑ Diploma Thesis (2010- ...)
 - ❑ Fluid Mechanics (2010-2014)
 - ❑ Introduction to Computers (2010-2014)
- 2) Program of undergraduate studies of the Department of Mathematics (University of Ioannina):
 - ❑ Meteorology (2014- ...)
- 3) Program of undergraduate studies of the Department of Primary Education (University of Ioannina):
 - ❑ Issues in atmospheric and space sciences (2019- ...)
- 4) Program of postgraduate studies in “Atmospheric Sciences and the Environment” of the Department of Physics (University of Ioannina):
 - ❑ Meteorology (2010- ...)
 - ❑ Synoptic Meteorology (2010- ...)
 - ❑ Micrometeorology (2010-2014)
- 5) Program of studies of the Department of Greenhouse Crops and Floriculture (Technological Educational Institute of Messolonghi):
 - ❑ Meteorology – Climatology (theory) (2005-2008)
 - ❑ Meteorology – Climatology (laboratory courses) (2005-2008)

- 6) Program of studies of the Department of Mechanical & Water-Resources Engineering (Technological Educational Institute of Messolonghi):
- Meteorology (2005-2008)

SUPERVISION OF PhD DISSERTATIONS

Program of doctoral studies in the Department of Physics (University of Ioannina):

- Chaskos D.: Study of the dependence of the meteorological parameters' forecasting skill on the weather type for Northwestern Greece and investigation of the potential for its improvement (in progress).
- Kotsias G.: Objective definition and variability of seasons in the Mediterranean region (in progress).

SUPERVISION OF MSc DISSERTATIONS

Program of postgraduate studies in "Atmospheric Sciences and the Environment" of the Department of Physics (University of Ioannina):

- Serbis E. 2012: Atmospheric static stability in the Mediterranean region; variability and connection to atmospheric circulation and convective precipitation.
- Manthos I. 2012: Objective classification of weather types for the Ioannina region.
- Varrias S. 2013: Atmospheric circulation characteristics favouring precipitation in Cyclades Islands, southern Aegean.
- Mantzara E. 2014: A study on summer human thermal discomfort in the areas of Athens and Ioannina using the biometeorological index UTCI.
- Kechaidis S. 2016: A study of sea-surface - lower troposphere interaction in the Mediterranean on daily basis.
- Kotsias G. 2018: Contribution to the study of the influence of the large-scale features of the atmospheric circulation on Mediterranean precipitation for the period 1979-2017.
- Efthymiou A. 2019: A study on the atmospheric conditions favoring extreme precipitation amounts in the Greek area with the use of ERA- Interim data.
- Farmakidis D. 2020: A study of the synoptic conditions favoring extreme air temperatures in Greece with the use of the ERA5 high resolution database.
- Goussis P.: A study on the cloudiness regime over the southern Balkans for the period 2008-2017 with the use of the ERA5 database (in progress).

SUPERVISION OF UNDERGRADUATE THESES

Program of undergraduate studies of the Department of Physics (University of Ioannina):

- Mantzara E. 2012: Comparison of daily maximum and minimum air temperatures and precipitation between the University of Ioannina and Anatoli meteorological stations.
- Spyropoulou P. 2012: Atmospheric circulation characteristics favoring the predominance of frost in the Ioannina region.

- ❑ Moca A. 2013: Characteristics of the PMV discomfort index in the coastal areas of Epirus for the summer of 2010.
- ❑ Kokotis C. 2013: A climatic classification of the areas of Greece with the use of multivariate statistical methods.
- ❑ Doumba F. 2013: A study on the dependence of the atmospheric pollution parameters on the weather type for the Ioannina region.
- ❑ Konidis S. 2014: A study on the precipitable water variability over Europe.
- ❑ Dafis S. 2014: The main types of atmospheric circulation evolution favoring snowfall in the Ioannina region.
- ❑ Roukanas D. 2014: An objective climatic classification of the Mediterranean regions with the use of multivariate statistical methods.
- ❑ Giannakogiorgos G. 2015: A study of the intra-annual variation of precipitation in the Mediterranean region on a daily basis for the period 1948-2014.
- ❑ Ioannidis L. 2015: A study on the intra-annual variation of cloudiness in the Mediterranean region for the period 1948-2014.
- ❑ Iliou P. 2015: A study on the intra-annual variation of specific humidity in the Mediterranean region for the period 1948-2014.
- ❑ Kotsias G. 2016: A study on the inter-annual variability of cloudiness in the Mediterranean region for the period 1979-2014 with the use of the ERA-Interim database.
- ❑ Belimezis P. 2017: An objective weather type classification for SE Europe.
- ❑ Glavas M. 2018: A study of the inter-annual variations and trends of air temperature and specific humidity in the lower and the middle troposphere over the Mediterranean region for the period 1979-2017.
- ❑ Spyrakis M. 2018: An objective weather type classification for Greece for the period 1979-2017 with the use of the ERA-Interim database.
- ❑ Roussos I. 2020: Climatic characteristics of relative humidity in Greece.
- ❑ Athanassiou D.: A study of the variability of Universal Thermal Climate Index (UTCI) in Northwestern Greece for the period 1979-2019 (in progress).
- ❑ Karvouni A.: A study of the variability of K-index in Northwestern Greece for the period 1979-2019 (in progress).

MEMBER OF ADVISORY COMMITTEES FOR PHD DISSERTATIONS

- ❑ Psistaki K.: Biometeorological and epidemiological study of extreme weather and climatic change consequences in the United Kingdom (in progress)
Advisory committee (25/6/2017): A. Paschalidou, P. Kassomenos, C. Lolis
- ❑ Petrou I.: Urbanization and climate in the framework of global warming. Challenges for human health (in progress)
Advisory committee (6/11/2017): P. Kassomenos, K. Tourpali, C. Lolis
- ❑ Gavrouzou M.: Dust in the Mediterranean basin. Implications for regional climate and weather (in progress)
Advisory committee (25/11/2019): N. Chatzianastassiou, N. Michalopoulos, C. Lolis
- ❑ Sakkas A.: Development of a remote sensing system for precipitation using microwave links
Advisory committee (16/11/2020): V. Christofilakis, E. Evangelou, C. Lolis

EDUCATIONAL VISITS – INTERNATIONAL COLLABORATIONS

- ❑ Research collaboration with Dr. Arturo Sanchez-Lorenzo (postdoc researcher of the Department of Physics of the University of Girona) on the Mediterranean climate. The following publication is a result of the above collaboration:
Sanchez-Lorenzo A, Pereira P, Lopez-Bustins JA, Lolis CJ. 2012: Summer night-time temperature trends on the Iberian Peninsula and their connection with large-scale atmospheric circulation patterns. *International Journal of Climatology* **32**: 1326-1335.
- ❑ Educational visit to the University of Canakkale (Turkey, 3-10 June 2012), in the framework of the Erasmus Program, for research collaboration with Professor Murat Turkes on the modern subject of extreme weather events in the East Mediterranean. The following publication is a result of the above collaboration:
Lolis CJ, Turkeş M. 2016: Atmospheric circulation characteristics favoring extreme precipitation in Turkey. *Climate Research* **71**: 139-153.
- ❑ Educational visit to the Institute of Construction and Architecture of the Slovak Academy of Sciences (Bratislava, 8-15 September 2013), in the framework of the Erasmus Program, for research collaboration with Dr. Stanislav Darula on the modern subject of natural illuminance. A joint publication on the above subject is under preparation.
- ❑ Educational visit to the University of Lisbon (20-24 March 2019), in the framework of the Erasmus+ Program. The visit aims to the training on the Mediterranean depressions and the methods used for their objective definition and classification and the research collaboration with Ricardo Trigo, Associate Professor of the University of Lisbon. The following work is a result of the above collaboration:
Lolis CJ, Kotsias G, Ramos AM, Trigo RM: On the atmospheric circulation characteristics associated with extreme precipitation in the Iberian Peninsula (it will be presented in the international conference COMECAP_2021).
- ❑ Research collaboration with Piero Lionello, Professor of the Department of Biological and Environmental Sciences of the University of Salento (Lecce), on the definition of seasons and the depression trajectories in the Mediterranean region. The following publications are a result of the above collaboration:
Kotsias G, Lolis CJ, Hatzianastassiou N, Lionello P, Bartzokas A. 2020: An objective definition of seasons for the Mediterranean region. *International Journal of Climatology* (in press).
Kotsias G, Lolis CJ, Hatzianastassiou N, Lionello P, Bartzokas A. 2020: An objective definition of seasons for the Mediterranean region based on synoptic weather types. *EGU General Assembly 2020 (Online, 4-8 May 2020)* EGU2020-7212.

REFEREE

- ❑ International Journal of Climatology
- ❑ Theoretical and Applied Climatology
- ❑ Climate Dynamics
- ❑ Climate Research
- ❑ Natural Hazards and Earth System Sciences
- ❑ Physics and Chemistry of the Earth
- ❑ Atmospheric Research
- ❑ Science of the Total Environment

- ❑ Advances in Meteorology

PARICIPATION IN ORGANIZING AND SCIENTIFIC COMMITTEES OF CONFERENCES

- ❑ Member of the Organizing Committee of the international scientific conference “12th Plinius Conference on Mediterranean Storms” (Corfu, September 1–4, 2010).
- ❑ Member of the Organizing and Scientific Committees of the international scientific conference “15th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2021)”, which will be held in Ioannina (26-29 September 2021).

ADMINISTRATIVE EXPERIENCE

- ❑ Participation in the General Assembly of the Department of Physics of the University of Ioannina (2010- ...)
- ❑ Participation in the General Assembly of the Section of Astrogeophysics of the Department of Physics of the University of Ioannina (2010-...)
- ❑ Member of the Postgraduate Studies Coordinating Committee of the Postgraduate Program «Atmospheric Sciences and the Environment» (2010- ...)
- ❑ Member of the following Committees of the Department of Physics of the University of Ioannina:
 - Committee of the Student Reading Room (2017-...)
 - Committee of the Evaluation of the Undergraduate / Postgraduate Teaching (2017-...)
 - Committee of Buildings and Safety (2017-...)
 - Committee of the Promotion of the Department in the Social Networks (2010-2017)
 - Committee of Freshman Orientation (2010-2017)
- ❑ Coordinator of the Department of Physics of the University of Ioannina for COVID-19 (2020-...)
- ❑ Advisor of students with special needs for the Department of Physics of the University of Ioannina (2015-2017)
- ❑ Participation in election commissions for the appointment of the administrative bodies of the School of Sciences and the Department of Physics of the University of Ioannina
- ❑ Participation in committees for the evaluation of research project results

SCHOLARSHIPS

- ❑ Scholarship for the admission to the university (1991).
- ❑ Scholarships for the performance in the 1st, 2nd and 3rd academic years of the undergraduate studies (1991-92, 1992-93, 1993-94).
- ❑ Scholarship for the performance in the 2nd academic year of the postgraduate studies (1996-97).

LANGUAGES

- ❑ Greek
- ❑ English