

BRIEF CURRICULUM VITAE

First Name: HELENA, **Surname:** FLOCAS

Title: Associate Professor, University of Athens

Family status: Married with two children.

Studies

First Degree: BSc, University of Thessaloniki, Department of Physics, Greece, 1987

Post Graduate Titles: MSc in Meteorology, University of Reading, UK, 1990

PhD in Meteorology, University of Thessaloniki, Greece, 1993

Languages: English, French, Italian

Fields of Scientific activities:

- Dynamic Climatology
- Applied Climatology- Climatic changes
- Synoptic and Dynamic Meteorology
- Biometeorology
- Atmospheric Boundary Layer
- Atmospheric air quality and transfer of air pollutants

Employment:

1990-1993: Research assistant, Department of Meteorology-Climatology, University of Thessaloniki

1993-1994: Research assistant in the Department of Meteorology, University of Reading, UK

1995-2000: Research assistant, Faculty of Physics, University of Athens

1996-2000: Scientific collaborator of the Ministry of Environment for issues related to European Environmental Agency

2000-2004: Lecturer, Faculty of Physics, University of Athens

2004- 2012: Assistant Professor, Faculty of Physics, University of Athens

2012-: Associate Professor

Teaching experience:

- Two compulsory courses to undergraduate students: 1) Dynamic and Synoptic Meteorology (since 2002), 2). Probability-Statistics-Errors (since 2003).
- Two courses to postgraduate students: Atmospheric Dynamics (MSc in Environmental Physics) and Statistics (MSc in Oceanography)
- Two undergraduate laboratory courses (Atmospheric Physics, Optics)
- Statistics (in english) within the context of the (IAEA Post Graduate Educational Course Radiation Protection and Safe Use of Radiation Sources, that is performed in 2003, 2005, 2007, 2009)

Supervision of Dissertations:

Supervision of undergraduate completed Dissertations (since 2000): 105

Supervision of postgraduate completed Dissertations (since 2000): 42

Supervision of PhD Dissertations, as main supervisor (since 2004): 6 (3 completed)

Supervision of PhD Dissertations, as member of supervising committee (since 2000): 12 (9 completed)

Supervision of funded postdoctoral research

1. Dr. M. Hatzaki, funded by the National Institution of Scholarship, in University of Athens (2010-2011)
2. Dr. D. Brayshaw, funded by NERC, UK in University of Reading (2011-2012)
3. Dr. G. Katavoutas, funded by the National Institution of Scholarship, in University of Athens (2017)

4.

Published work:

Number of publications in refereed <i>international</i> scientific journals:	90
Number of publications in peer reviewed <i>international</i> conference proceedings:	131
Number of publications in peer reviewed <i>national</i> conference proceedings:	27
Number of publications in Books:	13
Other publications (books, non-referred proceedings):	3
Number of Technical Reports:	34
Educational notes:	4

- **Citations to published work (excluding auto-citations):** about 2000 (source: ISI, Scopus, Google Scholar)
H-index: 18
- **Special reference** to the paper by Flocas al (2003) published in J. Appl. Meteorol. in the special column "Papers of Note" of Bulletin of American Meteorological Society (Issue 85(1), 2004, pages 34-35) entitled «Chemical distributions over Athens».
- **Reviewer in 35 international scientific journals**
- **Reviewer** of the **IPCC special report** "Managing the risks of extreme events and disasters to advance Climate Change adaptation", 2011
- **Invited speaker in 9 workshops/conferences**, related to the topic of Climate and climate changes
- **Guest editor:** 2 issues of GNEST, 1 issue of Atmospheric Research and 1 issue of Atmosphere
- **Member of the Editorial Board** of the journal *International Journal of Atmospheric Sciences and Global Nest*

Research experience

- Coordinator of 4 research projects, funded by EU and private and/or national funds.
- Participation in 57 research projects, as research assistant (including 14 European projects).
- Supervision of a research group (Meteorology and Climatology group) consisting of two postdoc collaborators, two PhD students and 3 postgraduate students
(http://env.mg.uoa.gr/index.php?option=com_content&view=article&id=57&Itemid=72&lang=en).

Participation in Scientific Committees

- Scientific Committee of the International Conference on Environmental Science and Technology since 2011
- Scientific Committee of the International Student Conference of Balkan Physical Union (ISCBPU-7). Bodrum, 4-7 September 2009.
- Scientific Committee of the English-Greek Dictionary of Meteorological and Climatological Terms, published by the Hellenic Meteorological Society
- Scientific Committee of the bulletin issued by the Ministry of Environment every 3 months related to the European Environmental Agency
- Organising Committee of the 11th International Conference on Meteorology, Climatology and Atmospheric Physics, Athens, May 2012

Distinctions

- Scholarship from the National Institution of Scholarships during my undergraduate studies (1983-1987).
- Scholarship from NATO, through the Greek Ministry of Economics, during my postgraduate studies in UK (1989-1990)
- Scholarship from British Council for postdoctoral research at the University of Reading (1994-1995)
- Fellowship from the National Foundation of Scholarship for postdoctoral research at the University of Athens (1998-1999)

- British Council: Fellowship for postdoctoral research in Reading University, UK (1993-1994).
- NASA: Grant for attending the 5th International Conference International Conference on precipitation: Space-Time variability and dynamics of rainfall. (1995)

Membership

- 1) Royal Meteorological Society: Appointed as Associate Fellow since 1993
- 2) American Meteorological Society: Appointed as Member since 2000
- 3) Hellenic Meteorological Society: Appointed as Member since 1990

PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Karacostas T.S, O.K.Kakaliagou and **H.A.Flocas**, 1991: An objective evaluation of two instability indices associated with forecasting convective storms over North Central Greece. *Geofizika*, 8, 51-59.
2. **Flocas, H. A.**, T. S. Karacostas, B. D. Giles and A. A. Flocas, 1995: Considerations on the dynamics of a cold spell over Greece. *Meteorologische Zeitschrift*, 4, 222-228.
3. **Flocas, H. A.** and T. S. Karacostas, 1996: Cyclogenesis over the Aegean Sea: Identification and Synoptic Categories. *Meteorological Applications*, 3, 53-62.
4. Prezerakos, N.G. and **H.A. Flocas**, 1996: The formation of a dynamical unstable ridge at 500 hPa in northwest Europe as a precursor of surface cyclogenesis in central Mediterranean. *Meteorological Applications*, 3, 101-112.
5. Prezerakos, N.G., **H.A. Flocas** and S. C. Michaelides, 1997: Absolute vorticity advection and potential vorticity of the free troposphere as synthetic tool for the diagnosis and forecasting of cyclogenesis. *Atmosphere-Ocean*, 35, 65-91.
6. Sioutas M. V. and **H. A. Flocas**, 1997: Influence of the environmental winds on propagation and motion of thunderstorms in northern Greece. *Journal of Geophysical Research*, 101, D21, 26.255-26.265.
7. Thorncroft, C. D. and **H. A. Flocas**, 1997: A case study of Saharan cyclogenesis. *Monthly Weather Review*, 125, 1147-1165.
8. Kassomenos, P., **H. A. Flocas**, S. Lykoudis and M. Petrakis, 1997: A study of frost events in areas characterised by the absence of observations. *Meteorology and Atmospheric Physics*, 62, 249-256.
9. Prezerakos, N. G. and **H. A. Flocas**, 1997: The role of an upper developing diffluent trough in central Mediterranean surface cyclogenesis. *Meteorologische Zeitschriften*, 6, 108-119.
10. Kassomenos, P., **H. A. Flocas**, Skouloudis, A. N., Lykoudis, S., Asimakopoulos, V. D. and Petrakis, M., 1998a: Relationship of air quality indicators and synoptic scale circulation at 850 hPa over Athens during 1983-1995. *Environmental Technology*, 19, 13-24.
11. Kassomenos, P., **H. A. Flocas**, S. Lykoudis and M. Petrakis, 1998b: Analysis of mesoscale patterns in relation to synoptic conditions over an urban Mediterranean basin. *Theoretical and Applied Climatology*, 59, 215-229.
12. **Flocas, H.A.**, Helmis, C.G, Blikas, S.N., Asimakopoulos, D.N, Barzis, J.G., Deligiorgi, D.G., 1998: Mean characteristics of the katabatic flow of a 1024 m high knife edge mountain. *Theoretical and Applied Climatology*, 59, 237-249.
13. Kassomenos, P., **H. A. Flocas**, Lykoudis, S. , and Skouloudis, A. N., 1998c: Spatial and temporal characteristics of the relationship between air quality status and mesoscale circulation over an urban Mediterranean basin. *The Science of the Total Environment*, 217, 37-57.

14. Kassomenos, P., Skouloudis, A.N., Lykoudis, S., and **Flocas, H.A.**, 1999: Air Quality Indicators for uniform indexing of atmospheric pollution in large metropolitan areas. *Atmospheric Environment*, 33/12, 1861-1879.
15. Michaelides, S.C, Prezerakos, N. G., and **H. A. Flocas**, 1999: Quasi-Lagrangian energetics of an intense Mediterranean cyclone. *Q. J. Roy. Met. Soc.*, 125, 139-168.
16. Prezerakos, N. G., **Flocas, H. A.** and Michaelides, S. C., 1999: Upper tropospheric downstream development over northwest Europe leading to surface cyclogenesis in the central Mediterranean. *Meteorological Applications*, 4, 313-322.
17. **Flocas, H. A.**, 2000: Diagnostics of cyclogenesis over the Aegean sea using potential vorticity. *Meteorology and Atmospheric Physics*, 73, 25-33.
18. Helmis, C. G, **Flocas H. A.**, Kalogiros, J. and Asimakopoulos, D. N, 2000: Strong downslope winds and application of hydraulic-like theory. *J. of Geophysical Research*, 105(D14), 18039-18051.
19. Maheras, P., **Flocas, H.A.**, Patrikas, I. And Anagnostopoulou C., 2001: A 40 year objective climatology of surface cyclones in the Mediterranean region: spatial and temporal distribution. *Int. J. of Climatology*, 21, 109-130.
20. Kassomenos, P., Gryparis, A., Samoli, E., Katsouyianni, K., Lycoudis, S. and **Flocas, H.A.**, 2001: Atmospheric circulation types and daily mortality in Athens, Greece. *Environmental Health Perspectives*, 109, 591-596.
21. **Flocas, H.A.**, Maheras, P., Karacostas, T.S., Patrikas, I and Anagnostopoulou, C., 2001: A 40 year climatological study of relative vorticity distribution over Mediterranean. *Int. J. Climatology*, 21, 1759-1778.
22. Maheras, P. **Flocas, H.A.**, Anagnostopoulou, C., Patrikas, I., 2002: On the vertical structure of surface cyclones in the Mediterranean region. *Theoretical and Applied Climatology*, 71, 199-217.
23. Prezerakos N. G. and **Flocas, H.A.**, 2002: Regional and global large scale dynamics leading to a prolonged drought event in Greece. *Journal of Atmospheric and Terrestrial Physics*, 64, 1841-1854.
24. Michalakakou, G., **Flocas, H.A.**, Santamouris, M. and Helmis, C. G., 2002: The impact of synoptic scale atmospheric circulation on the urban heat island over Athens, Greece. *Journal of Applied Meteorology*, 41, 519-527.
25. Helmis, C.G., Jacovides, C., Asimakopoulos, D.N. and **Flocas, H.A.**, 2002: Experimental study of the vertical structure of the lower troposphere over a small Greek island in the Aegean sea. *Journal of Atmospheric and Oceanic Technology*, 19, 1181-1192.
26. Helmis, C.G., Moussiopoulos, N., **Flocas, H.A.**, Sahm, P., Assimakopoulos, V., Naneris, C., Maheras, P., 2003: Estimation of transboundary air pollution on the basis of synoptic scale weather types. *International Journal of Climatology*, 23, 405-416.
27. Sioutas, M. and **Flocas, H.A.**, 2003: Hailstorms in Northern Greece: synoptic patterns and thermodynamic environment. *Theoretical and Applied Climatology*, 75, 189-202.
28. **Flocas, H.A.**, Assimakopoulos, V.D., Helmis, C.G., and Gusten, H., 2003: VOCs and O3 distribution over a densely populated area. *Journal of Applied Meteorology*, 42, 1799-1810.
29. Moussiopoulos, N., Helmis, C.G., **Flocas, H.A.**, Louka, P., Assimakopoulos, V., Naneris, C., Sahm, P., 2004: A modeling method for estimating transboundary air pollution in south-eastern Europe, *Environmental Modelling and Software*, 19, 549-558.
30. Anagnostopoulou, Ch., **Flocas, H.A.**, Maheras, P. and Patrikas, I, 2004: Relationship between atmospheric circulation over western-central Europe and eastern Mediterranean. *International Journal of Climatology*, 24, 1745-1758.

31. Maheras, P., Tolika, K., Anagnostopoulou C., Vafiadis M., Patrikas, I and **Flocas H.A.**, 2004: On the relationships between circulation types and changes in rainfall variability in Greece. *International Journal of Climatology*, 24, 1695-1712.
32. **Flocas, H.A.**, Tolika, K., Anagnostopoulou C., Patrikas I., Maheras, P. and Vafiadis M., 2005: Evaluation of maximum and minimum temperature NCEP-NCAR reanalysis data over the Greek area. *Theoretical and Applied Climatology*, 80, 49-65.
33. Halios, C., Assimakopoulos, V.D., Helmis, C.G. and **Flocas, H.A.**, 2005: Investigating Cigarette-Smoke Indoor Pollution in a Controlled Environment. *Science of the Total Environment*, 337, 183-190.
34. Protonotariou, A., E. Bossioli , E. Athanasopoulou, A. Dandou, M. Tombrou, , **H.A. Flocas**, V. D. Assimakopoulos and C. G. Helmis, 2005: Evaluation of the Calpuff regulatory model performance. An application over the Greater Athens Area (GAA), Greece. *International Journal of Environment and Pollution* , 24(1-4), 22-35.
35. Prezerakos, N.G., **Flocas, H.A.** and Brikas, D. 2006: The role of the interaction between polar and subtropical jet in a case of a depression rejuvenation over the Eastern Mediterranean. *Meteorology and Atmospheric Physics*, 92, 139-151.
36. Tolika, K., Maheras, P., **Flocas, H.A.** and Arseni-Papadimitriou, A., 2006: An evaluation of a General Circulation Model (GCM) and the NCEP-NCAR reanalysis data for the winter precipitation in Greece. *International Journal of Climatology*, 26, 935-955.
37. Maheras, P., **Flocas, H.A.**, Tolika, K., Anagnostopoulou, C. and Vafiadis, M., 2006: Circulation types and temperature extreme changes in Greece. *Climate Research*, 30, 161-174.
38. Athanassiadou M., **Flocas H.A.**, Harrison M. , Hort M.C., Witham C. S. and Watkin, S., 2006: The dust event of 17 April 2005 over Athens, Greece, 2005: *Weather*, 61, 125-131.
39. Anagnostopoulou, C., Tolika, K., **Flocas, HA**, Maheras, P., 2006 : Cyclones in the Mediterranean region : present and future climate scenarios derived from a General Circulation model (HadAM3P). *Advances in Geosciences*, 7, 9-14.
40. **Flocas H.A.**, Assimakopoulos, V.D. and Helmis, C.G., 2006: An experimental study of aerosol distribution over a Mediterranean urban area. *Science of the Total Environment*, 367, 872-887.
41. Petrakakis, M., Kelessis, A., **Flocas, HA.**, Zoumakis, N., Helmis, CG., Tsougas, M., 2006: Meteorological conditions during air pollution episodes in Thessaloniki, Greece. *Fresenius Environmental Bulletin*, 15, 916-922.
42. Hatzaki, M., **Flocas H.**, Assimakopoulos D., Giannakopoulos, C., Maheras P., 2006: Study of future climatic variations of a teleconnection pattern affecting Eastern Mediterranean. *GNEST*, 8(3), 195-203.
43. Hatzaki, M., **Flocas, H.A.**, Assimakopoulos, D.N. and Maheras, P., 2007: The Eastern Mediterranean teleconnection pattern: Identification and definition. *Int. J. of Climatol.*, 27, 727-737.
44. Tolika, K., Maheras, P., Vafiadis, M., **Flocas, H.A.**, Arseni-Papadimitriou, A., 2007: Simulation of seasonal precipitation and raindays over Greece: A statistical downscaling based on Artificial neural networks. *Int. J. Clim.* 27, 861-881.
45. Assimakopoulos, M., Michalakakou, G., **Flocas, H.A.**, 2007: Simulating the thermal behaviour of a building during the summer period in an urban environment. *Renewable Energy*, 32, 1805-1816.
46. Tombrou M., Dandou A., Angelopoulos G., Helmis C., Akylas E., **Flocas H.**, Assimakopoulos V., and Soulakellis N., 2007: Model evaluation of the atmospheric boundary layer and mixed layer evolution. *Boundary Layer*, DOI 10.1007/S10546-006-9146-5, 124, 61-79.

47. Anagnostopoulou, C., Tolika, K., Maheras, P., Kutiel, H. and **Flocas, HA.**, 2008: Performance of the general circulation model HadAM3P in simulating circulation types over the Mediterranean region. *Int. J. Climatology*, 28, 185-203.
48. Stathopoulou, O., Assimakopoulos, V.D., **Flocas, H.A.**, Helmis, C.G., 2008: An experimental study of air quality inside large athletic halls. *Building and Environment*, 43, 834-848.
49. Helmis, C.G., Tzoutzas, J. , **Flocas, H.A.** , Halios, C.H., Stathopoulou, O.I, Assimakopoulos V.D., Panis, V., Apostolatou, M., Sgouros, G. and Adam, E., 2007: Indoor air quality in a dentistry clinic. *Science of the Total Environment*, 377, 349-365.
50. Good, P., Giannakopoulos, C., **Flocas, H.**, Tolika, K., Anagnostopoulou, C. and Maheras, P., 2008: Significant changes in the regional climate of the Aegean during 1961-2002. *International Journal of Climatology*, 28, 1735-1749.
51. Helmis, C.G., Assimakopoulos, V.D, **Flocas, H.A.**, Stathopoulou, O., Sgouros, G. and Hatzaki, M., 2008a: Indoor Air Quality Assessment in the Air Traffic Control Tower of the Athens International Airport, Greece., *Environmental Monitoring and Assessment* , 148, 47-60.
52. Pateraki, S., Maggos, T. Michopoulos, J., **Flocas H.A.**, Asimakopoulos, D.N., Vasilakos, C., 2008: "Ions species size distribution in particulate matter associated with VOCs and meteorological conditions over an urban region". *Chemosphere*, DOI 10.1016/j.chemosphere.2008.02.061, PII: S0045-6535(08)00324-X.
53. Helmis, C.G., Tzoutzas, J. , **Flocas, H.A.** , Halios, C., Assimakopoulos, V.D Stathopoulou, O., Panis, V., and Apostolatou, M, 2008b: Emissions of total VOCs and indoor environment assessment in dental clinics in Athens, Greece. *International Dental Journal*, 58(5), pp 269-278
54. Hatzaki, M., Lingis, P., **Flocas, H.A.**, Michaelides, S., Oikonomou, C., 2008: The impact of an upper troposphere teleconnection pattern on precipitation extremes over Cyprus. *Advances in Geosciences*, 16, 131-136.
55. Oikonomou C., **Flocas, H.A.**, Hatzaki, M., Assimakopoulos, D.N., Gianakopoulos, C., 2008a: Future changes in the occurrence of extreme precipitation events in Eastern Mediterranean, *GNEST*, 10, 255-262.
56. **Flocas, H.A.**, Kelesis, A., Helmis, C.G., Petrakakis, M., Zoumakis, N., 2009: Synoptic and local scale atmospheric circulation associated with air pollution episodes in an urban Mediterranean region. *Theoretical and Applied Climatology*, 95, 265-277
57. Hatzaki, M., **Flocas, H.A.**, Giannakopoulos, C., Maheras, P., 2009: Eastern Mediterranean Teleconnection Pattern: Impact on Eastern Mediterranean climate. *Journal of Climate*, 22, 977-992.
58. Katavoutas, G., Theoharatos, G., **Flocas, H.A.**, Asimakopoulos, D.N., 2009: Measuring the effects of heat wave episodes on the human body thermal balance. *International Journal of Biometeorology*, 53, 177-187.
59. Tombrou M., E. Bossioli, A. Protonotariou, **H. Flocas**, C. Giannakopoulos, A. Dandou, 2009: Coupling GEOS-CHEM with a regional air pollution model for Greece. *Atm. Environ.*, 43, 4793-4804.
60. Halios, C., Helmis, C.G., Eleftheriadis, K., **Flocas, H.A.**, Assimakopoulos, V.D., 2009: A comparative study of the main mechanisms controlling indoor air pollution in residential flats. *Water, Air and Soil Pollution*, 204, 333-350.
61. Jacovides, C., Kaltsounidis, N., **Flocas, HA**, Assimakopoulos, DN, 2009: Spectral investigation of the diffuse-to-direct solar beam irradiances ratio (UV-VIS) in the urban Athens atmosphere. *Meteorology and Atmospheric Physics*, 104, 199-211
62. Mavrakis, A., **Flocas, H.**, Mavromatidis E., Kallos, G., Theoharatos, G., Christidis, A., 2010: A case of nighttime high ozone concentration over the Greater Athens area. *Meteorologische Zeitschrift*, 19, 35-45.

63. Oikonomou, C., **Flocas, H.**, Hatzaki, M., Nisantzi, A., Asimakopoulos D.N., 2010: Relationship of extreme dry spells in Eastern Mediterranean with large scale circulation. *Theoretical and Applied Climatol.*, 100, 137-151.
64. Hatzaki, M., **Flocas, H.**, Oikonomou C., Giannakopoulos, C., 2010: Future changes in the relationship between intense precipitation with large scale circulation. *Advances in Geosciences*, 23, 31-36.
65. Pateraki, S., Asimakopoulos, D.N., Maggos, T., **Flocas, H.**, Vasilakos, C., 2010: The role of wind, temperature and relative humidity on PM fractions in a suburban Mediterranean region. *Fresenius Environmental Bulletin*, 19, 2013-2018.
66. **Flocas, H.A.**, I. Simmonds, J. Kouroutzoglou, K. Keay, M. Hatzaki, D. N. Asimakopoulos, V. Bricolas, 2010: On cyclonic tracks over the Eastern Mediterranean. *J. Climate*, 23, 5243-5257 doi: 10.1175/2010JCLI3426.1
67. **Flocas, H.A.**, Hatzaki, M., Tolika, D., Anagnostopoulou, C., Giannakopoulos C., Kostopoulou E., Kolokitha H., Tegoulas, J., 2011: Ability of RCM/GCM couples to represent the relationship of large scale circulation to climate extremes over Mediterranean. *Climate Research*, 46, 197-209, doi: 10.3354/cr00984.
68. Oikonomou, C., **Flocas, H.A.**, Katavoutas, G., Hatzaki, M., D.N. Asimakopoulos, Zerefos, C., 2010b: On the relationship of orography with extreme dry spells in Greece. *Advances in Geosciences*, 25, 161-166. Doi: 10.5194/adgeo-25-161-2010.
69. Kouroutzoglou, J., **Flocas, H.A.**, Keay, K., Hatzaki, M., D. 2011: Climatological aspects of explosive cyclones in the Mediterranean. *Int. J. Climatol.*, 31, 1785-1802, doi: 10.1002/joc.2203
70. Kouroutzoglou, J., **Flocas, H.A.**, Keay, K., Hatzaki, M., D. 2011: Assessing the characteristics of explosive cyclones under different resolution. *Theor. Appl. Climatol* 105, 263-275, DOI 10.1007/s00704-010-0390-8
71. Helmis, C.G., G. Sgouros, **H. Flocas**; K. Schäfer; C. Jahn; M.Hoffmann; Ch. Heyder; R. Kurtenbach; A. Niedojadlo; P. Wiesen; M. O'Connor; E. Anamaterou, 2011: The role of meteorology on the background air quality at the Athens International Airport. *Atmospheric Environment*, 45, 5561-5571.
72. Pateraki, S., D. N. Asimakopoulos, **H. A. Flocas**, Th. Maggos, and Ch.Vasilakos, 2012: The role of meteorology on different sized aerosol fractions (PM10, PM2.5, PM2.5-10): two different approaches. *Science of the Total Environment*, 419, 124-135. DOI: 10.1016/j.scitotenv.2011.12.064
73. Kouroutzoglou J., **Flocas H.A.**, Keay K, Simmonds I., Hatzaki M., 2012: On the vertical structure of explosive Mediterranean cyclones. *Theor. Appl. Climatol.* 110, 155-176, DOI 10.1007/s00704-012-0620-3.
74. Zagouras, A., A Argiriou, **H.A. Flocas**, G. Economou, S. Fotopoulos, 2012: An advanced Method for Classifying Atmospheric Circulation Types based on Prototypes Connectivity Graph. *Atmospheric Research*, 118, 180-192.
75. **Flocas, H.A.**, Kountouris P., Kouroutzoglou J., Hatzaki, M., Keay, K., Simmonds, I., 2012: Vertical characteristics of cyclonic tracks in eastern Mediterranean during the cold period of the year. *Theor. Appl. Climatol.* DOI: 10.1007/s00704-012-0737-4 (on line)
76. Halios, C., C. G. Helmis, **H.A. Flocas**, S. Nyeki, D. N Assimakopoulos, 2012: On the variability of surface environment response to synoptic forcing over complex terrain: A multivariate data analysis approach. *Meteorology and Atmospheric Physics*, 118, 107-115
77. Kouroutzoglou J., **Flocas H.A.**, Keay K, Simmonds I., Hatzaki M., 2012: A climatology of surface Mediterranean explosive cyclones and comparison with their ordinary counterparts. *Regional Environmental Change* (DOI 10.1007/s10113-013-0461-3, online.
78. Zagouras A., Argiriou A.A., Economou G., Fotopoulos S. and **Flocas H.A.**, 'Weather maps classification over Greek domain based on isobaric line patterns: a pattern recognition approach', *Theoretical and Applied Climatology* 114: 691-704.

79. Philipopoulos K, Deligiorgi D., Yiannikopoulou, I. Flocas H A., 2013: A dynamical-statistical downscaling approach for simulating air temperature time series. *Global Nest*, 15, 261-270.
80. Korologou, M., **Flocas H.**, Mihalopoulou H., 2014: Developing an index for heavy convective rainfall over a Mediterranean coastal area. *Natural Hazards Earth Systems Science*, doi:10.5194/nhess-14-2205-2014, 14, 2205-2214.
81. Hatzaki, M., **Flocas H.**, Simmonds I., Kouroutzoglou, J., Keay, K., Rudeva, I., 2014: Seasonal aspects of an objective climatology of anticyclones affecting the Mediterranean. DOI: 10.1175/JCLI-D-14-00186.1, *J. Climate*, 24, 9272-9289.
82. Calafat, F.M., E. Avgoustoglou, G. Jordà, **H. Flocas**, G. Zodiatis, M. N. Tsimplis, J. Kouroutzoglou, 2014: The ability of a barotropic model to simulate sea level extremes of meteorological origin in the Mediterranean Sea, including those caused by explosive cyclones. *Journal of Geophysical Research-Ocean* 10.1002/2014JC010360, 119 (11), 7840-7853.
83. Katavoutas, G., **Flocas H.**, Mazarakis A. 2015: Thermal comfort under non-steady-state conditions: the case after the transition from an indoor to outdoor hot environment. DOI 10.1007/s00484-014-0836-2 *Int. J. Biometeorology*, 59, 205-216.
84. Rizou D., **Flocas H.**, Athanasiadis P., Bartzokas, A., 2015: Relationship between the Indian summer monsoon and the large-scale circulation variability over the Mediterranean *Atm. Research*, 152, 159-169.
85. Kouroutzoglou J., **Flocas H.A.**, Hatzaki M., Keay K, Simmonds I., 2015: On the dynamics of a case of explosive cyclogenesis over Mediterranean. *Meteorology and Atm. Physics* 127, 49-73.
86. Mavrakis, A., Salvati, L. and **Flocas H.**, 2015: Mixing Ratio as indicator of Climate Variations at a Local Scale: Trends in an Industrial Area of the Eastern Mediterranean, *International Journal of Climatology*, 36: 1534–1538, DOI: 10.1002/joc.4410 .
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