

## BRIEF CURRICULUM VITAE

**First Name:** HELENA,

**Surname:** FLOCAS

**Title:** 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

**2012-2018:** Associate Professor

**2018-:** Professor

### Teaching experience:

- Two compulsory courses to undergraduate students: 1). Probability-Statistics-Errors (since 2003). 1) Dynamic and Synoptic Meteorology (since 2002) 3) One optional with laboratory: Synoptic Meteorology
- 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): 140

Supervision of postgraduate completed Dissertations (since 2000): 47

Supervision of PhD Dissertations, as main supervisor (since 2004): 7 (4 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)

#### Published work:

Number of publications in refereed <i>international</i> scientific journals:	<b>98</b>
Number of publications in peer reviewed <i>international</i> conference proceedings:	<b>139</b>
Number of publications in peer reviewed <i>national</i> conference proceedings:	<b>27</b>
Number of publications in Books:	<b>13</b>
Other publications (books, non-referred proceedings):	<b>4</b>
Number of Technical Reports:	<b>38</b>
Educational notes:	<b>4</b>

- **Citations to published work (excluding auto-citations of all co-authors):** 2020 (source: ISI, Scopus, Google Scholar) 1500 (Scopus), 3239 (Google Scholar), 1600 (Web of Science)  
H-index 23 (Scopus), 29 (Google Scholar), 23 (Web of Science)
- **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 36 international scientific journals**
- **Reviewer of the IPCC special report** "Managing the risks of extreme events and disasters to advance Climate Change adaptation", 2011 and the **First Mediterranean Assessment Report (MAR1) CLIMATE AND ENVIRONMENTAL CHANGES IN THE MEDITERRANEAN** (2019)
- **Invited speaker** in 9 workshops/conferences and 9 national workshops, mainly 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, Advances in Meteorology, Climate*

#### Research experience

- Coordinator of 4 research projects, funded by EU and private and/or national funds.
- Participation in 59 research projects, as research assistant (including 15 European projects).
- Supervision of a research group (Meteorology and Climatology group) consisting of 2 postdoc collaborators, 3 PhD students and 3 postgraduate students  
([http://env.mg.uoa.gr/index.php?option=com\\_content&view=article&id=57&Itemid=72&lang=en](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 11<sup>th</sup> 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 5<sup>th</sup> 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 Zeitschrift*, 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.**, Asimakopoulos 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.**, Asimakopoulos, 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., Kaltounidis, 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., Tegoulis, 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 (PM<sub>10</sub>, PM<sub>2.5</sub>, PM<sub>2.5-10</sub>): 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.
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