

ΣΥΝΤΟΜΟ ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Όνοματεπώνυμο: ΕΛΕΝΑ ΦΛΟΚΑ
Έτος και τόπος γέννησης: 1966, Καλαμπάκα Τρικάλων
Ιδιότητα: Καθηγήτρια Πανεπιστημίου Αθηνών
Διεύθυνση εργασίας: Τομέας Φυσικής Περιβάλλοντος-Μετεωρολογίας,
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Τίτλοι Σπουδών :

1983 Απολυτήριο Λυκείου, 21ο Λύκειο Θεσ/νίκης
1987 Πτυχίο Φυσικής, Αριστοτέλειο Πανεπιστήμιο Θεσ/νίκης (βαθμός πτυχίου Αριστα 9.06)
1990 Master of Science στη Μετεωρολογία, University of Reading, UK
1993 Διδακτορικό δίπλωμα, Τομέας Μετεωρολογίας και Κλιματολογίας,
Αριστοτέλειο Πανεπιστήμιο Θεσ/νίκης

Επαγγελματική απασχόληση:

1990-1993: Συμμετοχή σε ερευνητικά προγράμματα του Τομέα Μετεωρολογίας-Κλιματολογίας του Πανεπιστημίου Θεσσαλονίκης
1993-1994: Επιστημονικός συνεργάτης (μεταδιδακτορική έρευνα) του Department of Meteorology, University of Reading, UK
1995-2000: Επιστημονικός συνεργάτης στο Εργαστήριο Μετεωρολογίας του Τμήματος Φυσικής του Πανεπιστημίου Αθηνών
1996-1999: Επιστημονική συνεργάτης του ΥΠΕΧΩΔΕ (Διεύθυνση Περιβαλλοντικού Σχεδιασμού) σε θέματα του Ευρωπαϊκού Οργανισμού Περιβάλλοντος
2000-2004: Λέκτορας του Τμήματος Φυσικής του Πανεπιστημίου Αθηνών
2004-2012: Επίκουρη Καθηγήτρια του Τμήματος Φυσικής του Πανεπιστημίου Αθηνών
2012-2018: Αναπληρώτρια Καθηγήτρια του Τμήματος Φυσικής του Πανεπιστημίου Αθηνών
2018-: Καθηγήτρια του Τμήματος Φυσικής του Πανεπιστημίου Αθηνών

Τομείς επιστημονικού και επαγγελματικού ενδιαφέροντος :

- Συνοπτική και Δυναμική Μετεωρολογία
- Εφαρμοσμένη και Δυναμική Κλιματολογία-Κλιματικές αλλαγές
- Βιομετεωρολογία

- Δομή του Ατμοσφαιρικού Οριακού Στρώματος
- Ποιότητα αέρα και μεταφορά αέριων ρύπων

Ξένες Γλώσσες : Αγγλικά, Γαλλικά, Ιταλικά

Ερευνητικά προγράμματα

- Συμμετοχή σε 60 ερευνητικά προγράμματα (15 εκ των οποίων χρηματοδοτούμενα από την Ε.Ε)
- Επιστημονική υπεύθυνη σε 7

Εκπαιδευτική εμπειρία

- Διδασκαλία του υποχρεωτικού μαθήματος Φυσική Ι στο προπτυχιακό πρόγραμμα σπουδών (2021-σήμερα)
- Διδασκαλία του υποχρεωτικού μαθήματος *(Πιθανότητες-Σφάλματα-Στατιστική)* στους προπτυχιακούς φοιτητές του Τμήματος Φυσικής (2003-2021) και ενός υποχρεωτικού-επιλογής (Δυναμική-Συνοπτική Μετεωρολογία) στους προπτυχιακούς φοιτητές του Τμήματος Μαθηματικών (2002-2017).
- Διδασκαλία του μαθήματος *Δυναμική της Ατμόσφαιρας* στο μεταπτυχιακό κύκλο σπουδών του Τμήματος Φυσικής (2000-σήμερα)
- Διδασκαλία του υποχρεωτικού μαθήματος «Βάσεις δεδομένων και στατιστική ανάλυση» του Διατμηματικού ΜΔΕ Ωκεανογραφίας (2008-σήμερα) και του μαθήματος κατεύθυνσης Β' εξαμήνου «Στατιστική Ανάλυση Γεωφυσικών Ρευστών (2015-2021)
- Διδασκαλία του υποχρεωτικού μαθήματος ροής στο ΔΠΜΣ «Ναυτική και Θαλάσσια Τεχνολογία» του ΕΜΠ (2018-σήμερα)

Επίβλεψη διατριβών

- Επιβλέπουσα διδακτορικών (από το 2004): 8 (6 έχουν ολοκληρωθεί)
- Μέλος τριμελούς επιτροπής διδακτορικών (από το 2000): 10 (9 έχουν ολοκληρωθεί)
- Μέλος επταμελούς εξεταστικής επιτροπής διδακτορικών: 42
- Επίβλεψη προπτυχιακών διπλωματικών που έχουν ολοκληρωθεί (από το 2000): 160
- Επίβλεψη μεταπτυχιακών διπλωματικών (από το 2000) που έχουν ολοκληρωθεί: 54
- Μέλος τριμελούς επιτροπής μεταπτυχιακών διπλωματικών ΜΔΕ Φυσική Περιβάλλοντος (από το 2000) που έχουν ολοκληρωθεί: 111
- Μέλος τριμελούς επιτροπής μεταπτυχιακών διπλωματικών ΔΠΜΣ Ωκεανογραφίας (από 2015) που έχουν ολοκληρωθεί: 6

Επίβλεψη χρηματοδοτούμενης μεταδιδακτορικής έρευνας

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

Ερευνητική εμπειρία

- Υπεύθυνη σε 4 ανταγωνιστικά ερευνητικά προγράμματα, χρηματοδοτούμενα από ευρωπαϊκά και/ή ιδιωτικά/εθνικά κονδύλια και σε 3 προγράμματα χρηματοδότησης μεταδιδακτόρων
- Συμμετοχή σε 59 ερευνητικά προγράμματα, (εκ των οποίων 15 ευρωπαϊκά).
- Υπεύθυνη ερευνητικής ομάδας (ομάδα Μετεωρολογίας-Κλιματολογίας) που αποτελείται από 2 μεταδιδάκτορες, 2 υποψήφιους διδάκτορες and 3 μεταπτυχιακούς φοιτητές

http://env.mg.uoa.gr/index.php?option=com_content&view=article&id=57&Itemid=72&lang=en

Δημοσιευμένες Εργασίες:

Δημοσιεύσεις σε έγκυρα επιστημονικά περιοδικά	:	104
Ανακοινώσεις σε διεθνή συνέδρια	:	152
Ανακοινώσεις σε ελληνικά συνέδρια	:	27
Εργασίες σε εκδόσεις:	:	13
Τεχνικές εκθέσεις	:	35
Σημειώσεις	:	4
Άλλες δημοσιεύσεις	:	3

- **Αναφορές στο δημοσιευμένο έργο (εξαιρώντας αυτοαναφορές):** 1950 (source: Web of Science) 1845 (Scopus), 3600 (Google Scholar)
- **H-index:** 25, Web of science, 24 (Scopus), 33 (Google Scholar)
- **Ιδιαίτερη αναφορά στην εργασία** 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».
- **Κριτής σε 42 διεθνή επιστημονικά περιοδικά**
- **Κριτής του IPCC special report** "Managing the risks of extreme events and disasters to advance Climate Change adaptation" (2011) και του **First Mediterranean Assessment Report (MAR1) CLIMATE AND ENVIRONMENTAL CHANGES IN THE MEDITERRANEAN** (2019)
- **Προσκεκλημένος ομιλητής** σε 12 workshops/conferences και 9 εθνικές ημερίδες , κυρίως σχετικά με το αντικείμενο «Κλίμα και Κλιματικές Αλλαγές»

- **Guest Editor** σε 2 special issues του περιοδικού Global Nest και σε 1 του Atmospheric Research
- **Συμμετοχή στο Editorial Board** των περιοδικών Theoretical and Applied Climatology, Global Nest, Advances in Meteorology, Climate
- **Συμμετοχή στη διοργάνωση** του 11th International Conference on Meteorology-Climatology-Atmospheric Physics που έγινε στην Αθήνα, Μάιος 2012

Διακρίσεις

- Υποτροφία του ΙΚΥ σε όλα τα έτη των προπτυχιακών σπουδών
- Υποτροφία του NATO (μέσω του Υπουργείου Οικονομικών) για τις μεταπτυχιακές σπουδές στο Πανεπιστήμιο του Reading, UK
- Υποτροφία του Βρετανικού Συμβουλίου για μεταδιδακτορική έρευνα στο Πανεπιστήμιο του Reading, UK
- Υποτροφία του ΙΚΥ για μεταδιδακτορική έρευνα στο Πανεπιστήμιο Αθηνών

ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΔΙΕΘΝΗ ΠΕΡΙΟΔΙΚΑ

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.
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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.
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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.
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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.
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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.
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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.
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 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.
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ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΠΡΑΚΤΙΚΑ ΔΙΕΘΝΩΝ ΣΥΝΕΔΡΙΩΝ

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