

## ΣΥΝΤΟΜΟ ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

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### ΑΚΑΔΗΜΑΙΚΟ ΠΡΟΦΙΛ:

- 2014 -** ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ – Τμήμα  
Φυσικής, Εργαστήριο Μετεωρολογίας,  
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Φυσικής, Εργαστήριο Μετεωρολογίας,  
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- 2010, Μάιος-Ιούλιος** PRINCETON UNIVERSITY – Geophysical Fluid  
Dynamics Laboratory (GFDL)  
Princeton, NJ, USA  
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- 2006 - 2010** ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ – Τμήμα  
Φυσικής, Εργαστήριο Μετεωρολογίας,  
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- 2000 - 2006** ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ – Τμήμα  
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*Θέση: Λέκτορας*

- 1997 - 2000** **ΙΔΡΥΜΑ ΤΕΧΝΟΛΟΓΙΑΣ ΚΑΙ ΕΡΕΥΝΑΣ (ΙΤΕ)**  
– **Εργαστήριο Περιβαλλοντικών Ερευνών**  
Ηράκλειο, Κρήτη, Ελλάδα  
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- 1994 - 1997** **UNIVERSITE BLAISE PASCAL (CLERMONT-  
FERRAND II) FRANCE - Laboratoire de  
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*Diploma: Doctorat (PhD)*
- Diploma Thesis: Etude de l'effet indirect des  
particules d'aérosol sur le bilan radiatif lors de cycles  
nuageux consecutifs  
Τίτλος Διδακτορικής Διατριβής: Μελέτη του  
φαινομένου της έμμεσης επίδρασης των αεροσόλς  
στο ενεργειακό ισοζύγιο κατά τη διάρκεια  
διαδοχικών κύκλων νεφών
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Meteorologie Physique (LaMP)**  
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- Diploma Thesis: Simulations numeriques de la  
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Zone Experiment 1984, M.I.Z.EX'84)  
Τίτλος Διπλωματικής Εργασίας: Αριθμητικές  
προσομοιώσεις του οριακού στρώματος της  
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- Επιβλέπων: Prof. Charles Fravallo
- 1986 - 1990** **ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ  
ΘΕΣΣΑΛΟΝΙΚΗΣ (ΕΛΛΑΔΑ) – Τμήμα Φυσικής**  
*Δίπλωμα: Πτυχίο*
- Διπλωματική Εργασία: Ημερήσια Μεταβολή της  
ποσότητας των υδρατμών στην περιοχή της  
Θεσσαλονίκης κατά τη δεκαετία 1970-1980
- Επιβλέπων: Καθηγητής Χαράλαμπος  
Σαχσαμάνογλου

### **ΕΡΕΥΝΗΤΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ:**

1. Φυσική των νεφών (αλληλεπιδράσεις αερολυμάτων-νεφών)
2. Διάδοση ηλιακής και γήινης ακτινοβολίας στην ατμόσφαιρα
3. Αλληλεπιδράσεις αερολυμάτων-νεφών-ακτινοβολίας (άμεση και έμμεση επίδραση αερολυμάτων)
4. Ενεργειακό ισοζύγιο με έμφαση στην ακτινοβολία και τη βροχή
5. Ισοζύγια ενέργειας και ακτινοβολίας σε τοπική, περιοχική και πλανητική κλίμακα
6. Φυσικές, οπτικές και ιδιότητες ακτινοβολίας των αερολυμάτων
7. Φυσική Κλιματολογία

### **ΔΙΔΑΚΤΙΚΗ ΕΜΠΕΙΡΙΑ:**

1. *Προπτυχιακό επίπεδο* (15 έτη, Φυσική της Ατμόσφαιρας, Φυσική Κλιματολογία, Δυναμική Μετεωρολογία, Μηχανική των Ρευστών)
2. *Μεταπτυχιακό επίπεδο* (15 έτη, Κλιματολογία, Φυσική της Ατμόσφαιρας, Ραδιομετεωρολογία, Μικρομετεωρολογία, Φυσική των Νεφών)
3. *Προγράμματα Επικαιροποίησης Γνώσης Αποφοίτων Τριτοβάθμιας Εκπαίδευσης* (1 έτος, Γενική Κλιματολογία, Τηλεπισκόπηση Αερολυμάτων)
4. *Επίβλεψη Έρευνας* [επιβλέπων 3 Διδακτορικών Διατριβών (1 σε εξέλιξη), 17 μεταπτυχιακών διπλωματικών εργασιών, 33 μεταπτυχιακών διπλωματικών εργασιών και 3 μετα-διδακτορικών ερευνητών]
5. *Εργαστήρια* (Φυσική της Ατμόσφαιρας, προπτυχιακό επίπεδο, Τμήμα Φυσικής Πανεπιστημίου Ιωαννίνων, 2000-2015)

## ΔΗΜΟΣΙΕΥΣΕΙΣ

### Διεθνή Επιστημονικά Περιοδικά Κύρους με σύστημα κριτών (ISI)<sup>1</sup>

- [1] **N. Hatzianastassiou\***, W. Wobrock, A. I. Flossmann: The role of droplet spectra for cloud radiative properties; *Quarterly Journal of the Royal Meteorological Society*, 123, No 544, 2215-2230, 1997
- [2] **N. Hatzianastassiou**, W. Wobrock, A. I. Flossmann: The effect of cloud processing of aerosol particles on clouds and radiation, *Tellus*, 50B, 478-490, 1998
- [3] **N. Hatzianastassiou\***, B. Croke, K. Koutoulaki, I. M. Vardavas: A model for the longwave radiative budget of the northern hemisphere: Comparison with Earth Radiation Budget Experiment data, *Journal of Geophysical Research*, 104, 9489-9500, 1999
- [4] **N. Hatzianastassiou\***, I. M. Vardavas: The shortwave radiation budget of the Northern Hemisphere using ISCCP and NCEP/NCAR climatological data, *Journal of Geophysical Research*, 104, 24401-24421, 1999
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- [6] **N. Hatzianastassiou\***, I. M. Vardavas: Longwave radiation budget of the Southern Hemisphere using ISCCP C2 climatological data, *Journal of Geophysical Research*, 106, 17785-17798, 2001
- [7] **N. Hatzianastassiou\***, N. Cleridou, I. M. Vardavas: Polar cloud climatologies derived from ISCCP and ERBE data, *Journal of Climate*, 14, 3851-3862, 2001
- [8] **N. Hatzianastassiou\***, I. M. Vardavas: Shortwave radiation budget of the Southern Hemisphere using ISCCP C2 and NCEP/NCAR climatological data, *Journal of Climate*, 14, 4319-4329, 2001
- [9] **N. Hatzianastassiou\***, B. Katsoulis, I. M. Vardavas: Global Distributions of Aerosol Direct Radiative Forcings in the Ultraviolet and Visible arising under Clear Skies. Model, Input Data and Model Results, *Tellus*, 56B, 51-71, 2004
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<sup>1</sup> Ο αστερίσκος (\*) υποδηλώνει τον αλληλογραφώντα συγγραφέα

- [12] **N. Hatzianastassiou\***, B. Katsoulis, I. M. Vardavas: Sensitivity Analysis of Aerosol Direct Radiative Forcings in the Ultraviolet - Visible wavelengths and Consequences for the Heat Budget, *Tellus*, 56B, 368-381, 2004
- [13] K. G. Pavlakis, **N. Hatzianastassiou**, C. Matsoukas, E. Drakakis, I. M. Vardavas: On the Decadal Increase in the Tropical Mean Outgoing Longwave Radiation for the period 1984-2000, *Atmospheric Chemistry and Physics*, 4, 1419-1425, 2004
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- [19] A. Fotiadi, **N. Hatzianastassiou\***, C. Matsoukas, K. G. Pavlakis, E. Drakakis, D. Hatzidimitriou, and I. Vardavas: Analysis of the Decrease in the Tropical Mean Outgoing Shortwave Radiation at the Top of Atmosphere for the period 1984-2000, *Atmospheric Chemistry And Physics*, 5, 1721-1730, 2005
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Mediterranean derived from Total Ozone Mapping Spectrometer, Aerosol Robotic Network, and surface measurements, *Journal of Geophysical Research*, 112, D03202, doi:10.1029/2006JD007510, 2007

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MODIS Level 2 data in the Eastern Mediterranean (Crete), *Atmospheric Chemistry and Physics*, 11, 12647-12662, 2011

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7. **N. Hatzianastassiou:** A 17-year global distribution of the Earth’s shortwave radiation budget, Universite Blaise Pascal, Clermont-Ferrand, France, 17 September 2005
8. **N. Hatzianastassiou:** Global distribution of the Earth’s shortwave radiation budget, University of Ioannina, 16 December 2005
9. **N. Hatzianastassiou:** Optical properties and direct effect of aerosols on the solar radiation budget, 2<sup>nd</sup> Meeting of the Hellenic Association for Aerosol Research (HAAR), National Centre for Scientific Research “Demokritos”, 13 December 2007
10. **N. Hatzianastassiou:** Tropospheric aerosols: how these tiny particles affect the Earth’s solar radiation budget and climate?, Physics Department, University of Ioannina, 5 February 2010
11. **N. Hatzianastassiou:** Tendencies of shortwave radiation budget beyond 2000, global dimming and brightening and possible implications for climate, Geophysical Fluid Dynamics Laboratory (GFDL), Princeton, USA, 14 July 2010

### **Προσκεκλημένες Ομιλίες**

1. **N. Hatzianastassiou:** Global radiation budget using the new ISCCP D2 satellite data, Saint Petersburg, Russia, 25 July 2000

2. **N. Hatzianastassiou:** The shortwave and longwave radiation budgets for the northern and southern hemispheres, University La Sapienza (Rome I), Rome, Italy, 25 June 2001
3. **N. Hatzianastassiou:** Modelling the aerosol direct effect on solar radiation arising under clear skies, University Blaise Pascal, Clermont-Ferrand, France, 29 June 2003
4. **N. Hatzianastassiou:** Modelling the aerosol direct effect on solar radiation based on global data sets, Maximilian University of Munich, Munich, Germany, 28 September 2003
5. **N. Hatzianastassiou:** The direct effect of aerosols on the radiation budget and climate of the Earth-atmosphere system: its variability in space and time, European Geosciences Union General Assembly 2009, Vienna, Austria, 19 - 24 April 2009

#### **Συμμετογή σε workshops**

1. 4<sup>th</sup> International Cloud Modeling Workshop, Group of NARE '93 experiment, Clermont-Ferrand, France, 12-16 August 1996
2. Reduction of errors in assessment of aerosol forcing of the climate using model, satellite, network and in-situ measurements, in "Ocean color, land surfaces, radiation and clouds, aerosols: the contribution of POLDER and new generation spaceborne sensors to global change studies, Meribel, France, 18-22 January, 1999
3. 1<sup>st</sup>-2<sup>nd</sup>-3<sup>d</sup>-4<sup>th</sup>-5<sup>th</sup>-6<sup>th</sup> European Component of GEWEX Surface Radiation Budget Experiment meetings (1<sup>st</sup>-3<sup>d</sup>-5<sup>th</sup>-6<sup>th</sup> meetings at Heraklion, Crete in 2001, 2002, 2003, 2004, 2<sup>nd</sup> meeting at the Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, 2002, 4<sup>th</sup> meeting at the Free University of Berlin, Germany, 2003)
4. Workshop on Validation of Radiative Fluxes at TOA and Surface Derived from Satellite Measurements and Climate Modeling, at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland, 6-8 October 2004

#### **Οργανωτικές και Επιστημονικές Επιτροπές Συνεδρίων**

1. 4<sup>th</sup> International Cloud Modeling Workshop, Group of NARE '93 experiment, Clermont-Ferrand, France, 12-16 August 1996
2. 6<sup>th</sup> Hellenic Conference on Meteorology-Climatology-Atmospheric Physics, Ioannina, Greece, 25-28 September 2002
3. Climate Change Impacts on Mediterranean Storms, European Geosciences Union, 12<sup>th</sup> Plinius Conference on "Mediterranean Storms", Corfu, Greece, 1-4 September 2010

4. Mediterranean Storms. Disasters and Climate Change: know to adapt, European Geosciences Union, 13<sup>th</sup> Plinius Conference on "Mediterranean Storms", Savona, Italy, 7-9 September 2011
5. European Geosciences Union (EGU) General Assembly 2013, session in Atmospheric Sciences, AS3.14: Mediterranean aerosols: from physico-chemical and optical properties to radiative and climate effects, Vienna, Austria, 7-12 April 2013
6. European Geosciences Union (EGU) General Assembly 2014, session in Atmospheric Sciences, AS4.11: Mediterranean aerosols: from physico-chemical and optical properties to radiative and climate effects, Vienna, Austria, 27 April-02 May 2014
7. 11<sup>th</sup> International Conference on Meteorology-Climatology-Atmospheric Physics, Heraklion, Crete, 28-31 May 2014
8. American Geophysical Union (AGU) Fall Meeting 2015, session 038: Improved Understanding of the Surface Energy Balance and the Spatio-temporal Variation of its components, San Francisco, USA, 15 - 19 December 2014
9. European Geosciences Union (EGU) General Assembly 2015, session in Atmospheric Sciences, AS4.9: Mediterranean aerosol and gaseous precursors: from processes to regional impacts, Vienna, Austria, 12 - 17 April 2015
10. European Geosciences Union (EGU) General Assembly 2016, session in Atmospheric Sciences, AS3.18: Mediterranean aerosol and gaseous precursors: from processes to regional impacts, Vienna, Austria, 17 - 22 April 2016

### **Διδασκαλία-Ακαδημαϊκή Δραστηριότητα**

#### *Προπτυχιακό επίπεδο*

1. Δυναμική Μετεωρολογία (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2000-2001
2. Φυσική της Ατμόσφαιρας (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2000-2015 – με εργαστήρια
3. Φυσική Κλιματολογία (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2003-2015
4. Μηχανική των Ρευστών (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2002-2003
5. Γενική Κλιματολογία (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων, Πρόγραμμα Σπουδών Επιλογής «Επιστήμες και Πολιτισμός» – Κατεύθυνση Περιβάλλον) 2000-2002
6. Δορυφορική Τηλεπισκόπηση Αερολυμάτων (Τμήμα Φυσικής, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Πρόγραμμα Επικαιροποίησης Γνώσης Αποφοίτων Τριτοβάθμιας Εκπαίδευσης) 2014

#### *Μεταπτυχιακό επίπεδο*

1. Γενική Κλιματολογία (Πρόγραμμα Μεταπτυχιακών Σπουδών: Ατμοσφαιρικές Επιστήμες και Περιβάλλον, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2000-2015



2. Φυσική Μετεωρολογία και Θερμοδυναμική της Ατμόσφαιρας (Πρόγραμμα Μεταπτυχιακών Σπουδών: Ατμοσφαιρικές Επιστήμες και Περιβάλλον, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2000-2007
3. Φυσική της Ατμόσφαιρας (Πρόγραμμα Μεταπτυχιακών Σπουδών: Ατμοσφαιρικές Επιστήμες και Περιβάλλον, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2007-2015
3. Ραδιομετεωρολογία (Πρόγραμμα Μεταπτυχιακών Σπουδών: Ατμοσφαιρικές Επιστήμες και Περιβάλλον, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2001-2003
4. Φυσική των Νεφών (Πρόγραμμα Μεταπτυχιακών Σπουδών: Ατμοσφαιρικές Επιστήμες και Περιβάλλον, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2002-2005
5. Υδρομετεωρολογία (Πρόγραμμα Μεταπτυχιακών Σπουδών: Ατμοσφαιρικές Επιστήμες και Περιβάλλον, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2002-2005
6. Μικρομετεωρολογία (Πρόγραμμα Μεταπτυχιακών Σπουδών: Ατμοσφαιρικές Επιστήμες και Περιβάλλον, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) 2010

#### *Επιβλέψεις*

1. 33 προπτυχιακές διπλωματικές εργασίες, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων
2. 17 μεταπτυχιακές διπλωματικές εργασίες στο Πρόγραμμα Μεταπτυχιακών Σπουδών: Ατμοσφαιρικές Επιστήμες και Περιβάλλον, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων
3. 3 Διδακτορικές Διατριβές (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων – 1 σε εξέλιξη)
4. 3 μετα-διδακτορικούς ερευνητές

#### *Επιτροπές*

1. Συμμετοχή σε διάφορες επιτροπές Μεταπτυχιακών και Διδακτορικών Διατριβών στην Ελλάδα
2. Συμμετοχή σε επιτροπές Διδακτορικών Διατριβών στην Ελβετία (ETH), Ιταλία (University of Siena), Ισπανία (University of Valladolid)
3. Συμμετοχή σε εκλεκτορικές επιτροπές εξέλιξης μελών ΔΕΠ στην Ελλάδα

#### **Επιστημονικές Συνεργασίες**

1. NASA Langley Research Center, USA (Dr. Paul Stackhouse)
2. ETH, Zurich, Switzerland (Professor Atsumu Ohmura and Dr Martin Wild)
3. University of Munich, Germany (Dr Peter Koepke)
4. Université Blaise Pascal, France (Professors Andrea Flossman and Wolfram Wobrock)
5. Free University of Berlin, Germany (Dr. Dirk Koslowsky and Dr. Heiner Billing)
6. NASA, Goddard Institute for Space Studies, GISS, USA (Dr William Rossow)
7. University of Maryland, USA, (Professor Rachel Pinker)
8. NASA, Goddard Space Flight Center (GSFC), USA, (Dr. Omar Torres)

9. University of Tokyo (Dr Toshihiko Takemura)
10. Harvard University, Smithsonian Center for Astrophysics (Dr. Willie Soon)
11. Spanish Research Council (CSIC), Institute of Environmental Sciences and Water Research, IDAEA, (Prof. Xavier Querol)
12. Department of Global Ecology Carnegie Institution of Washington, USA (Prof. Ken Caldeira)
13. Institute of Atmospheric Sciences and Climate, Italian National Research Council (CNR), (Dr Vincenzo Levizzani)
14. Research School of Biological Sciences, Australian National University, (Dr Michael Roderick)
15. Max Planck Institute for Meteorology, Hamburg, Germany (Dr. Stefan Kinne)
16. Geophysical Fluid Dynamics Laboratory (GFDL), Princeton, USA (Dr. V. Ramaswamy and Dr. Paul Ginoux)
17. Italian National Agency for New Technologies, Energy and the Environment, ENEA, (Dr. Alcide Giorgio di Sarra)

#### **Συμμετογή σε Διεθνείς Επιτροπές**

1. International Radiation Commission (IRC), Working Group on Radiation
2. Global Energy and Water Cycle Experiment (GEWEX), Radiative Flux Assessment (RFA)
3. International Precipitation Working Group (IPWG), Coordination Group for Meteorological Satellites (CGMS) and World Meteorological Organization (WMO)

#### **Συμμετογή σε Συντακτικές Επιτροπές Επιστημονικών Περιοδικών**

1. The Scientific World Journal (TSWJ) – since 2012
2. International Journal of Atmospheric Sciences – since 2012
3. Dataset Papers in Geosciences – since 2012
4. Aegean Journal of Environmental Sciences (AEJES) – since 2014

#### **ΞΕΝΕΣ ΓΛΩΣΣΕΣ:**

I) English (fluently written and spoken), II) French (fluently written and spoken), III) Italian (some written and spoken)

#### **ΠΛΗΡΟΦΟΡΙΚΗ:**

Languages: Fortran, Pascal, Basic, html  
 Platforms: Ms-Dos, Unix, Vax, Linux, Macintosh, Windows, Xwindows  
 Computers: Pc's, Workstations, Cray, X-terminals  
 Graphics: IDL, Matlab, xmgr, Grad's, xgs,

xv, canvas, excel, deltagraph, xfig,  
Power-Point, DISLIN, surfer, Paint,  
Acrobat, Matlab, Origin, ...  
Editors: latex, word, notepad, wordpad, emacs, vi, ...

**ΣΤΡΑΤΙΩΤΙΚΗ ΘΗΤΕΙΑ:** Ολοκληρωμένη (1992-1994)

**Μέλος Ενώσεων:**

1. AGU (American Geophysical Union)
2. EGU (European Geosciences Union)
3. AMS (American Meteorological Society)
4. RMS (Royal Meteorological Society)
5. AIC (Association Internationale de Climatologie)
6. European Meteorological Society (EMS)
7. International Association of Meteorology and Atmospheric Science (IAMAS)
8. European Aerosol Assembly (EAA)
9. Hellenic Meteorological Society (HMS)
10. Hellenic Physical Society (HPS)
11. American Institute Of Physics (AIP)
12. Hellenic Association for Aerosol Research (HAAR)

**ΒΡΑΒΕΙΑ-ΔΙΑΚΡΙΣΕΙΣ:**

1. Ministere Francaise de l'Education Superieure et de la Recherche, Scholarship (1994-1997)
2. Society for Civilisation of Serres, Award of best student, 1986
3. Travel Support Award, International Radiation Commision (IRC), World Meteorological Organization, 2000
4. International Commision on Clouds and Precipitation (ICCP), IAMAS, World Meteorological Organization, Travel Support Award, 2000
5. Deutscher Akademischer Austausch Dienst (DAAD), Award, 2003
6. International Commision on Clouds and Precipitation (ICCP), IAMAS, World Meteorological Organization, Travel Support Award, 2004
7. Associate Fellow of the Royal Meteorological Society (RMS), February 2004
8. Member of Radiation Flux Assessment (RFA) Team, Global Energy and Water Cycle Experiment (GEWEX), World Climate Research Programe (WCRP), 2009 -
9. Member of International Radiation (IRC) Radiation Budget Working Group, 2010 - present
10. Fulbright Award, 2009-2010
11. European Geosciences Union (EGU) complimentary membership for 2012 for the EGU related activities performed

## **ΚΡΙΤΗΣ ΕΡΓΑΣΙΩΝ ΣΕ ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ ΚΥΡΟΥΣ:**

1. Journal of Geophysical Research
2. Journal of Climate
3. Atmospheric Chemistry and Physics
4. Atmospheric Environment
5. Journal of Applied Meteorology
6. Quarterly Journal of the Royal Meteorological Society
7. Tellus
8. Geophysical Research Letters
12. Remote Sensing of Environment
13. Atmospheric Research
14. Journal of Environmental Management
15. Annales Geophysicae
16. Environmental Monitoring and Assessment
17. Journal of Weather Modification
18. Journal of Atmospheric and Solar Terrestrial Physics
19. Natural Hazards and Earth System Sciences
20. Climate Dynamics
21. Advances in Meteorology
22. Atmospheric Pollution Research
23. The Scientific World Journal
24. Atmospheric Measurements and Techniques
25. The Science of Total Environment
26. Environmental Modelling and Software
27. Meteorology and Atmospheric Physics
28. Remote Sensing Letters
29. Solar Energy

## **ΚΡΙΤΗΣ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΠΡΟΤΑΣΕΩΝ REFEREE OF SCIENTIFIC PROPOSALS:**

Κριτής επιστημονικών προτάσεων στην Ελλάδα και στο εξωτερικό (Science Foundations of Germany, Switzerland and Israel καθώς και άλλων διεθνών προγραμμάτων - Italy).