

# CURRICULUM VITAE

## THEODORE S. KARACOSTAS

### PERSONAL INFORMATION

Family Name: **Karacostas**  
First Name: **Theodore**  
Date of Birth: **October 1<sup>st</sup>, 1950**  
Nationality: **Greek**  
Place of Birth: **Naoussa – Macedonia - Greece**  
Home Address: **151, G. Papanikolaou Ave., GR-57010, Asvestohori, Thessaloniki**  
Phone Number: **++30 2310 676052**

Present Affiliation: **Professor Emeritus**  
Work Address: **Department of Meteorology and Climatology, School of Geology,  
Faculty of Sciences, Aristotle University of Thessaloniki, GR-54124, Thessaloniki,  
GREECE.**

Office Phone Number: **++30 2310 998456**  
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Extra Duties: **Vice President: Research Committee of the Aristotle University (2010-2015)**  
**Co-Editor-in-Chief: SPRINGER, Acta Geophysica, Section Atmospheric Sciences**  
**Associate Editor: ELSEVIER, Atmospheric Research**  
**Associate Editor: HINDAWI, Advances in Meteorology**

Civil Status: **Married, one child**

### EDUCATION

1974: **B. Sc.** Degree in Mathematics. Aristotle University of Thessaloniki, Faculty of Science, School of Mathematics. GREECE. **(Honours)**

1978: **M.Sc.** Degree in Atmospheric Sciences. University of Wyoming, School of Engineering, Department of Atmospheric Sciences, Laramie, Wyoming, U.S.A. **(Honours)**  
Thesis: **"Transport and Turbulent Diffusion over Mountainous Terrain"**.

1981: **Ph.D.** Degree in Atmospheric Sciences. University of Wyoming, School of Engineering, Department of Atmospheric Sciences, Laramie, Wyoming, U.S.A. **(Honours)**  
*Dissertation: "Turbulent Diffusion Studies of Winter Storms over the Sierra Nevada Mountains"*.

## WORKING RESEARCH AND TEACHING POSITIONS

- **University of Wyoming, Dept of Atmospheric Science, Engineering School, Wyoming, U.S.A.**
  - 1975-1977: **Research Assistant.** Department of Atmospheric Sciences. University of Wyoming, U.S.A.
  - 1977-1978: **Research Scientist.** Department of Atmospheric Sciences. University of Wyoming, U.S.A.
  - 1978-1981: **Research Associate.** Department of Atmospheric Sciences. University of Wyoming, U.S.A.
  
- **Aristotle University of Thessaloniki, Department of Meteorology and Climatology, GREECE.**
  - 1970-1973: **Observer-Research Meteorologist.** Institute of Meteorology and Climatology,
  - 1974-1975: **Research Assistant.** Institute of Meteorology and Climatology.
  - 1986-1991: **Assistant Professor.** Department of Meteorology and Climatology.
  - 1991-1994: **Associate Professor.** Department of Meteorology and Climatology.
  - 1996-2018: **Full Professor.** Department of Meteorology and Climatology.
  - 2010-2015: **Vice President. Research Committee of the Aristotle University (Extra Duties)**
  - 2018-today: **Professor Emeritus.** Department of Meteorology and Climatology.
  
- **Ministry of Agriculture, GREECE.**
  - 1983-1984: **Scientific Consultant:** *Design of the Greek National Hail Suppression Project.*
  - 1984-2006: **Scientific Director** *of the Greek National Hail Suppression Project.*
  
- **“ANATOLIA College”, American University in Thessaloniki, GREECE.**
  - 1983-1992: **Professor.** Department of Business Administration and Liberal Arts. Thessaloniki. GREECE.  
**Teach:** 1. *Calculus I*, 2. *Calculus II*, 3. *Elementary Statistics* and 4. *Statistics and Probability*.
  
- **Ministry of Agriculture, ITALY.**
  - 1989-1999: **Consultant / Member of the International Scientific and Advisory Committee (5-members) of the Cloud Physics Rain Enhancement Project in South Italy, "Progetto Pioggia" - "Rain Enhancement Project of Italy".**
  
- **Aristotle University of Thessaloniki, GREECE.**
  - **Teaching at the Aristotle University of Thessaloniki, GREECE.**
    - Undergraduate:**
      - General and Dynamic Meteorology***, Dept. of Mathematics, Undergraduate level (1986-2014).
      - Synoptic and Dynamic Meteorology***, Dept. of Geology, Undergraduate level (1986-2006).
    - Graduate:**
      - Dynamic Meteorology***, Dept. of Geology, Graduate level (1995-today).
      - Cloud Microphysics***, Dept. of Geology, Graduate level (1995-today).
      - Weather Modification***, Dept. of Geology, Graduate level (1995-today).
      - Analysis of Extreme Natural Phenomena***, inter-faculty master programme (Dept. of Geology, Dept. of Mathematics and Dept. of Economics), with the title: ***“Networks and Complexity”***. (2014-today).
      - Life and Geo-economic Networks***, inter-faculty master programme (Dept. of Geology, Dept. of Mathematics and Dept. of Economics), with the title: ***“Networks and Complexity”***. (2018-today).

**Introduction to the Environmental Sciences**, inter Institutional and inter-faculty master programme (Dept. of Geology, Dept. of Medicine), with the title: **“Health and Environment”**. (Coordination) (2018-today).

**Meteorological Risks and Disasters**, inter Institutional and inter-faculty master programme (Dept. of Geology, A.U.Th. - Dept. of Geography, Aegean University), with the title: **“Natural Risks and Confrontation of Disasters”**. (2017-today).

➤ **Student supervising at the Aristotle University of Thessaloniki, GREECE.**

36 **Diploma** Research Papers. Dept. of Geology, Undergraduate level.

28 **Master of Science Degree Theses. Supervisor.** Graduate School on Meteorology, Climatology and Atmospheric Environment

23 **Master of Science Degree Theses. Advisosry Committee.** Graduate School on Meteorology, Climatology and Atmospheric Environment

10 **Master of Science Degree Theses. Examination Committee.** Universities Abroad.

15 **Doctor Degree Dissertations. Supervisor.** Graduate School on Meteorology, Climatology and Atmospheric Environment

12 **Doctor Degree Dissertations. Advisosry Committee.** Graduate School on Meteorology, Climatology and Atmospheric Environment

17 **Doctor Degree Dissertations. Examination Committee.** Graduate School on Meteorology, Climatology and Atmospheric Environment

6 **Doctor Degree Dissertations. Examination Committee.** Universities Abroad.

## ADMINISTRATIVE POSITIONS AT A.U.Th.

- **Διευθυντής του Τομέα** Μετεωρολογίας και Κλιματολογίας για τα παρακάτω δέκα (10) ακαδημαϊκά έτη:

1999 - 2000	2011 - 2012
2000 - 2001	2012 - 2013
2008 - 2009	2013 - 2014
2009 – 2010	2014 - 2015
2010 – 2011	2015 – 2016

- **Διευθυντής του Προγράμματος Μεταπτυχιακών Σπουδών** του Τομέα Μετεωρολογίας και Κλιματολογίας για τα παρακάτω επτά (7) ακαδημαϊκά έτη:

2003 - 2004	2010 - 2011
2004 - 2005	2011 - 2012
2005 - 2006	2012 - 2013
2007 – 2008	

- **Διευθυντής του Εργαστηρίου** Μετεωρολογίας και Κλιματολογίας, από το 1998 έως το 2018.
- **Υπεύθυνος** των Μετεωρολογικών Σταθμών του **Ολύμπου**, από το 1998 έως το 2018.
- **Αντιπρόεδρος της Επιτροπής Ερευνών και Διαχείρισης του Ε.Λ.Κ.Ε. του Α.Π.Θ.**, για την περίοδο **2010-2015**.

## ADMINISTRATIVE POSITIONS BESIDES A.U.Th.

- **Επιστημονικός Σύμβουλος** του Υπουργείου Υγείας Πρόνοιας και Κοινωνικών Ασφαλίσεων, για το σχεδιασμό του **Εθνικού Προγράμματος Χαλαζικής Προστασίας** των καλλιιεργειών, **1983-1984**.
- **Επιστημονικός Διευθυντής** του **Εθνικού Προγράμματος Χαλαζικής Προστασίας** των καλλιιεργειών, του Υπουργείου Υγείας Πρόνοιας και Κοινωνικών Ασφαλίσεων **1984-1988**.
- **Italy - Ministry of Agriculture: Member/consultant** of the **Scientific and Advisory International Committee** (5-members) of the Cloud Physics Rain Enhancement Project in South Italy, "Projetto Pioggia", **1989-1999**.

## DISTINCTIONS – SIGNIFICANT RESEARCH ACHIEVEMENTS

- 1969 - 1973: **Scholarship** from the **Greek State Scholarship Foundation** for all the undergraduate years of my studies at the Department of Mathematics of the Aristotle University of Thessaloniki.
- 1975 - 1977: **Scholarship** from the **National Science Foundation (NSF) of U.S.A.**, through the Department of Atmospheric Sciences, School of Engineering of the University of Wyoming [DES (ATM) 75-02515].
- 1978 - 1981: **Scholarship** from the **Berau of Reclamation, Department of the Interior of U.S.A.**, through the Department of Atmospheric Sciences, School of Engineering of the University of Wyoming [14-06-6801 and 7-07-93-VOOO1].
- 1979: **Invitation**, by the **World Meteorological Organization (WMO)**, for the design of the **Turbulent Diffusion** part of the **"Precipitation Enhancement Project (PEP)" of the United Nations**.
- 1980: **Invited speaker** from the **World Meteorological Organization (WMO)**, at the **Third World Meteorological Organization Scientific Conference on Weather Modification**, at Clermont-Ferrand, FRANCE.
- 1981: **Nominated**, by the **Scientific Committee of the University of Wyoming - USA**, for the **"1982 Award"**, as the **best Researcher Graduate Student**.
- 1982: **Invited lecturer** at the workshop of the **Advanced Study Institute on Mesoscale Meteorology: Observations, Theory, and Models**. Bonas, FRANCE.
- 1983: **Nominated**, by the **Greek National Meteorological Service**, for the **"1983 Award"** of **WMO**, as the **best Young Research Scientist**.
- 1983 - 1984: **Design** of the **"Greek National Hail Suppression Program"**. This program was scientifically accepted by the **WMO** and it is still operational, up to today.
- 1984 - 1988: **Scientific Director** of the Greek National Hail Suppression Program.
- 1986: **"KF-theory"**, that is, **"Karacostas-Flocas – theory"**:  
After the publication of the paper entitled: *"The Development of a "Bomb" over the Mediterranean Area"*, the explosive cyclogenesis with similar thermodynamic and dynamic characteristics are **referred in the literature as "KF"**, after the initials of the authors: **Karacostas** and **Flocas**.
- 1989 - 2000: Member of the **Scientific Committee** of the **European Union on Weather Modification**.
- 1989: Member of the **Scientific Committee** of the **European Union on Meteorological Radars**.

- 1989 - 1999: **Scientific and Advisory International Committee** (5-members) of the **Cloud Physics Rain Enhancement Project in South Italy, "Progetto Pioggia"**.
- 1992 - 1993: **Design of the "Greek Rain Enhancement Project"**.
- 1993: **Invited Presentation** of the **"5-YEAR PLAN PROGETTO PIOGGIA"** to the **Italian Minister for Agriculture and Forestry, Senator A. Dina**, and to the **Italian public**, within the overall Italian **"PROGETTO AGUA"**, April, Rome.
- 1994: Member of **Evaluation Committee** of University faculty member at **University of Israel**.
- 1995: **Invited Speaker** of the **International Decade for Natural Disaster Reduction (IDNDR)** of **United Nations**, at the **"Seminar on the Role of Universities and Scientific Institutions in Disaster Reduction"**, Geneva, Swiss.
- 1995: Member of the **World Meteorological Organization (WMO) Meeting of Experts** to Review the **Present Status of Hail Suppression**, Golden Gate National Park, **South Africa**.
- 1996: **Invited Lecture** at **International Symposium on Weather Modification**, **University of Rome**, 23 May 1996.
- 1996: **Invited paper** at the **International Symposium on Weather Modification in the Mediterranean**, **University of Bari, Italy**.
- 1997: **External Advisor Reviewer** of the **Alberta Hail Suppression project, Canada**
- 1999: Member in the **WMO meeting** for the **planning of Precipitation Enhancement Projects** in the **Mediterranean, S.E. Europe and Middle East** countries (MEDSEEME-PEP), **Monselice, Italy**.
- 1999 - 2000: **Evaluation** of the **"Greek National Hail Suppression Program"**.
- 2003: Member of the **World Meteorological Organization (WMO) Meeting of Experts** to Review the **Present Status of Hail Suppression**, **Nalchik, Russia**.
- 2002 - **External Evaluator** of the **Scientific Examining Committee** of six (6) **Doctor Degree Dissertations** and ten (10) **Master of Science Degree Theses**, for the **Faculty of Science** of several **Universities** abroad, including mainly the **Cairo University, Egypt**.
- 2010: Member of **Evaluation Committee** of the University faculty member at the **University of Israel** (1994-95), and at the **University of the Kingdom of Saudi Arabia** (2010).
- 2010 - 2015: Elected **Vice President** of the **Research Committee** of the **Aristotle University of Thessaloniki, Greece**.
- 2016: **Key-note speaker** at the **2d International Scientific Conference**, **Geobalcanica 2016, Scopia, FYROM**.
- 2017 **Editor of the Book**: **Perspectives on Atmospheric Sciences**. **SPRINGER International Publishing**, Volumes I and II, pages 1259, DOI 10.1007/978-3-319-35095-0.
- 2017 - **Co-Editor-in-Chief**: **SPRINGER, Acta Geophysica, Section Atmospheric Sciences**
- 2017 - **Associate Editor**: **ELSEVIER, Atmospheric Research**
- 2017 - **Associate Editor**: **HINDAWI, Advances in Meteorology**
- Scientific reviewer** to more than 20 different **scientific journals**
- 2018: **Key-note speaker** at the **4<sup>th</sup> International Scientific Conference**, **Geobalcanica 2018, Scopia, FYROM**.

## RESEARCH PROJECTS, COMPETATIVE

- 1973 – 1974: **Μοντέλο Αντικυκλώνας στη Βαλκανική**, Εργαστήριο Μετεωρολογίας και Κλιματολογίας, Α.Π.Θ., - (Συμμετοχή).

- 1973 – 1974: **Ηλιοφάνεια και Νέφωση των Αθηνών**, Εργαστήριο Μετεωρολογίας και Κλιματολογίας, Α.Π.Θ., - (Συμμετοχή).
- 1973 – 1974: **Ηλιοφάνεια και Νέφωση στην Αθήνα και Θεσσαλονίκη**, Εργαστήριο Μετεωρολογίας και Κλιματολογίας, Α.Π.Θ., - (Συμμετοχή).
- 1975 - 1876: **National Hail Research Experiment (NHRE)**. Colorado, U.S.A. (*Research Associate*).
- 1976 - 1977: **Ice Phase in Wintertime Clouds**. Wyoming, U.S.A. (*Research Associate*).
- 1977 - 1978: **Wind Energy**. Medicine Bow Mountains, Wyoming, U.S.A. (*Research Associate*).
- 1978 - 1981: **Sierra Cooperative Pilot Project (SCPP)**. California, U.S.A. (*Research Associate*).
- 1984 - 1988: **The Greek National Hail Suppression Program**. Ministry of Health and Social Insurance, Greece. (*Contractor*).
- 1986 - 1986: **Wind Energy over the Greek Area**. General Secretariat for Research and Technology, Greece.
- 1989 - 2005: **Greek National Hail Suppression Program**. (*Scientific Consultant*).
- 1990 - 1997: **Rain Enhancement Project in South Italy "Progetto Pioggia"**. Ministry of Agriculture, Italy. (*Scientific Consultant*).
- 1991 - 1992: **Development of Weather Radar Hydrology in Greece**. "European Programme on Climatology and Natural Hazards - EPOCH". (*Scientific Director*).
- 1991 - 1993: **Effects of Climatic Changes on Agricultural and Horticultural Potential in the European Communities. (EPOCH)** – European Union. (*Scientific Director*).
- 1991 - 1993: **Rain Enhancement Project in Greece in Winter-time Clouds: Design the program**. Ministry of Environment. Greece. *Contractor*. 15,407.19 €.
- 1993 - 1995: **Climatic Change and Agriculture: Assessment of Impacts and Adaptation**. (ENVIRONMENT) - European Union. *Contractor*. 159,040 € (total: 1,530,000 €).
- 1993 - 1995: **The Impact of Greenhouse Gas-Induced Climate Change on the Frequency and Intensity of Heat Waves in Greece**. Ministry of Research and Technology. Greece. *Contractor*. 4,893.81 €.
- 1994 - 1995: **Climatic Change and Extreme Events: Altered Risk, Socio-Economic Impacts and Policy Responses**. (ENVIRONMENT) - European Union. *Contractor*. 32,577.84 € (total: 172,977.84 €).
- 1996- 1998: **Climatic Change, Climatic Variability and Agriculture in Europe: An Integrated Assessment**. (ENVIRONMENT). European Union. *Contractor*. 60,000 € (total: 1,675,000 €).
- 1998 - 2000: **Evaluation of the Greek National Hail Suppression Project**. Ministry of Agriculture, Greece, *Contractor*, 73,346.43 €.
- 1997 - 1999: **Hailstorm Forecasting**. (*Contractor*).
- 2000 – 2002: **Climatological Characteristics of Thessaloniki During the last Century**. *Contractor*.
- 2001: **Greek Pilot Project on Rain Enhancement in Summer-time Clouds**. Ministry of Agriculture, Greece. (*Contractor*).
- 2001 – 2002: **The Contribution of Meteorology and Climatology to Human Environment**. *Contractor*.
- 2006 – 2007: **Ten years of Postgraduate Studies in Meteorology and Climatology**. *Contractor*.
- 2007 – 2008: **Graduate Studies at the School of Geology – A.U.Th**. *Contractor*.
- 2009 – 2010: **Weather, Climate and the Air we Breath**. *Contractor*.
- 2010 – 2011: **The Weather, the Climate and the Climatic Changes**. *Contractor*.
- 2011 - **The Weather and Climate from the Space**. *Contractor*.
- 2011 - **Analyses of Meteorological and Climatological Data**. *Contractor*.
- 2007 - 2008: **"NEFELI": Scientific and Educational Seminars related to: "Modern and Innovative Methodologies for the Identification, Study and Forecast of Extreme Weather Events, with**

- Applications of them to Macedonia and Thessaly**", Ministry of Research and Development, Greece. *Coordinator-Contractor*. 158,000 €.
- 2008 - 2009: **On the Study of Fog Development at the "MACEDONIA" airport of Thessaloniki, with the aim to Forecast it.**, JOHN S. LATSIS Public Benefit Foundation. *Coordinator-Contractor*. 11,000 €.
- 2009 – 2010: **On the Study of Estimating-Calculating the Wind Energy and the Solar Energy at the Areas: Taxiarchis Chalkidikis, Kolhikou Thessalonikis and Pertouli Trikalon.** University of Thessaloniki, Greece. *Coordinator-Contractor*. 45,000 €.
- 2009 - 2010: **Database Development for the Meteorological and Climatological Observations of the Aristotle University of Thessaloniki Meteorological Station.** University of Thessaloniki, Greece. *Coordinator-Contractor*. 15,000 €.
- 2009 - 2010: **Investigation Studies and Installation Procedures for Meteorological Stations over Central Macedonia.** 3D S.A. (private company). *Coordinator-Contractor*. 2,521 €.
- 2010 – 2012: **An Innovative Methodology as a Feedback to the Climate Change Effects: the Potentiality of Applying Precipitation Enhancement Projects.** General Secretariat for Research and Technology, Greece. - (Coordinator-Contractor).
- 2011 - 2012: **Calculation – Estimation of Wind Energy Potential over the Vermion Mountainous area of Naoussa.** Municipality of Naoussa. *Coordinator-Contractor*. 12,195.12 €.
- 2012 – 2016: **An Innovative and Integrated Conceptual Model to Mitigate the Impact of Climate Change on Drought: Potentiality and Applicability of a Precipitation Enhancement Project in Thessaly.** European Union - Ministry of Research and Development, Greece. *Coordinator-Contractor*. 742,000 €.
- 2012 – 2013: **Μελέτη των κλιματολογικών χαρακτηριστικών σε τέσσερις διακεκριμένες περιοχές της Βόρειας Ελλάδας.** Χρηματοδότης: E. ON NEW BUILD & TECHNOLOGY GMBH, - (*Coordinator-Contractor*).
- 2012 – 2015: **An Innovative and Integrated Conceptual Model to Mitigate the Impact of Climate Change on Drought: Potentiality and Applicability of a Precipitation Enhancement Project in Thessaly (DAPHNE).**  
Ένα Καινοτόμο και Ολοκληρωμένο Εννοιολογικό Μοντέλο για την Αντιμετώπιση των Επιπτώσεων της Κλιματικής Μεταβολής στην Ξηρασία: Δυνητικότητα Εφαρμογής ενός Προγράμματος Αύξησης των Βροχοπτώσεων στη Θεσσαλία (ΔΑΦΝΗ).  
NSRF 2007-2013 & ERDF. Hellenic Ministry of Education and Religious Affairs, Culture and Sports. General Secretariat for Research and Technology, Greece. - (*Coordinator-Contractor*: 742,000 €).
- 2012 – 2015: **WaveForUs (Πιλοτικό σύστημα για την ανάπτυξη και αναμετάδοση ημερήσιων προγνώσεων κυματισμών και θαλάσσιας κυκλοφορίας στο Θερμαϊκό κόλπο για δημόσια χρήση και έκτακτες συνθήκες).**  
NSRF 2007-2013 & ERDF. Hellenic Ministry of Education and Religious Affairs, Culture and Sports. General Secretariat for Research and Technology, Greece. Επιστ. Υπεύθ.: Επικ. Καθ.: Ι. Πυθαρούλης, - (*Κύριος Ερευνητής*: 117,710 €).
- 2015 – 2016: **LESinFIRE (Large Eddy Simulations in Wildland Fires).** Διάθεση πόρων στο υπερ-υπολογιστικό σύστημα ARIS του ΕΔΕΤ για την εκτέλεση αριθμητικών προσομοιώσεων μοντέλων καιρού και πυρκαγιών. ΕΔΕΤ Α.Ε., - (Επιστημονικός Υπεύθυνος).
- 2015 - 2016: **CORRECT (Cloud Resolving Climate Simulations).** Διάθεση πόρων στο υπερ-υπολογιστικό σύστημα ARIS του ΕΔΕΤ. Επιστ. Υπεύθ.: Επικ. Καθ. Ι. Πυθαρούλης (Α.Π.Θ.), - (*Ερευνητής*)

- 2016 – 2017: **CORFIRE (CLOUD Resolving climate and FIRE Simulations)**. Διάθεση πόρων στο υπερ-υπολογιστικό σύστημα ARIS του ΕΔΕΤ για την εκτέλεση αριθμητικών προσομοιώσεων μοντέλων καιρού και πυρκαγιών. - (Επιστημονικός Υπεύθυνος).
- 2017 – 2021: **AfriCultuReS (Enhancing food security in AFRIcan agriCUTLURal systems with the support of REmote Sensing)**. Χρηματοδότης: EC / Horizon2020-SFS-2017-1. Συντονιστής: Juan Suárez Beltrán (GMV, Ισπανία). Επιστ. Υπεύθ.: Επικ. Καθ. Ε. Κατράγκου (Α.Π.Θ.), - (Ερευνητής).

Συνοπτική εικόνα των ερευνητικών προγραμμάτων ως προς το φορέα χρηματοδότησης.

1	Από Η.Π.Α.	4
2	Από την Ευρωπαϊκή Ένωση	13
3	Από άλλες Ευρωπαϊκές χώρες	1
4	Από Ελληνικό Δημόσιο – ΔΕΚΟ, κλπ.	16
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6	Από το Α. Π. Θ.	3
	<b>Σύνολο</b>	<b>40</b>
	<b>Εκτίμηση χρηματοδότησης</b>	<b>&gt;1,5M €</b>

## EDITORIAL BOARD MEMBER

- **Editor** of the Book: **Perspectives on Atmospheric Sciences**. **SPRINGER - Verlag Berlin Heidelberg**, International Publishing, **Volumes I and II**, total pages 1259, ISBN 978-3-319-35094-3, DOI 10.1007/978-3-319-35095-0.
- **Co-Editor-in-Chief**: **Acta Geophysica**, Section **Atmospheric and Space Sciences**
- **Associate Editor**: Journal of Advances in Meteorology, **HINDAWI**.
- **Associate Editor**: Journal of Atmospheric Research, **ELSEVIER**.
- **Guest-Editor**: Journal of Atmospheric Research, **ELSEVIER**.

## REVIEWER AT INTERNATIONAL JOURNALS (indicative)

- Nature
- Advances in Meteorology,
- Atmospheric Research,
- Acta Geophysica
- Monthly Weather Review,
- Journal of Applied Meteorology and Climatology,
- Journal of Atmospheric Sciences,
- Theoretical and Applied Climatology
- Meteorology and Atmospheric Physics,



- International Journal of Climatology,
- Journal of Geophysical Research,
- Journal of Climate,
- Climate Research
- Natural Hazards and Earth System Sciences,
- Atmospheric Chemistry and Physics,
- Advances in Science and Research,
- Asia-Pacific Journal of Atmospheric Sciences
- Meteorologische Zeitschrift,
- Environmental Fluid Mechanics,
- Atmosphere
- Geofizika

## EVALUATOR OF RESEARCH PROJECTS

- National Science Foundation, USA.
- National Oceanic and Atmospheric Administration, USA.
- National Science Center, Poland.
- State Scholarships Foundation, Greece.
- ΓΓΕΤ - ΕΥΔΕ ΕΤΑΚ, ΕΣΠΑ 2007-2013, Δράση «Συνεργασία 2009», Ελλάδα.
- Ελληνικό Ίδρυμα Έρευνας και Καινοτομίας (ΕΛΙΔΕΚ), Ελλάδα.

## ORGANIZE INTERNATIONAL CONFERENCES *(indicative)*

- 1<sup>ο</sup> Διεθνές **Συνέδριο** Μετεωρολογίας, Κλιματολογίας και Φυσικής της Ατμόσφαιρας, Θεσσαλονίκη, **1992**, (*Γραμματέας Συνεδρίου*).
- **Workshop** on “The Effect of Climate Change on Agricultural and Horticultural Potential in Europe”, Χαλκιδική, **1994**, (*Πρόεδρος*).
- IAMAS/IAPSO Joint **Assemblies**: Melbourne, Australia, **1997**, (*Co-Convenor: JMP-15 Transport of Particles in Turbulence*).
- 5<sup>ο</sup> Διεθνές Επιστημονικό **Συνέδριο** Μετεωρολογίας, Κλιματολογίας και Φυσικής της Ατμόσφαιρας, Θεσσαλονίκη, **2000**, (*Πρόεδρος Συνεδρίου*).
- **Ημερίδα** του ερευνητικού έργου «Daphne». Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Θεσσαλονίκη, **2015**, (*Πρόεδρος*).
- **Ημερίδα** του ερευνητικού έργου «Daphne». Δήμος Λαρισαίων, Λάρισα, **2015**, (*Πρόεδρος*).
- 13<sup>th</sup> International **Conference** on Meteorology, Climatology and Atmospheric Physics (COMECAP 2016), Thessaloniki, **2016**, (*Πρόεδρος Συνεδρίου*).

## CITATIONS *(from SCOPUS)*

According to Scopus, there are **just less than 1000 citations (excluding self-citations of all authors)** in the Scopus international scientific literature, with the **h-index to be 16**.

## MEMBER OF LOCAL AND INTERNATIONAL SOCIETIES

1. Greek Meteorological society
2. American Meteorological Society
3. Canadian Meteorological Society
4. Hellenic Meteorological Society
5. Weather Modification Association
6. Association of British Climatologists
7. Hellenic Mathematical Society
8. Association of British Climatologists
9. European Geophysical Society
10. International Decade for Natural Disaster Reduction
11. International Association of Meteorology and Atmospheric Sciences
12. International Association for the Physical Sciences of the Ocean

# ΔΗΜΟΣΙΕΥΣΕΙΣ

## DISSERTATIONS

1. **Karacostas, T. S., 1978:** Transport and Turbulent Diffusion Over Mountainous Terrain. *M.Sc. Thesis*, Department of Atmospheric Sciences, University of Wyoming, USA, pp. 116.
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