

Curriculum Vitae

(1) NAME & ADDRESS

Dr. Hyo Choi (崔孝), Professor (Former Dean of The Graduate School)

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Date of Birth: August 24, 1949

Place of Birth: Namhae-gun, Gyeongsangnam-do, Korea

Nationality: Republic of Korea



Dr. Hyo Choi is **meteorologist, environmental scientist** and **physical oceanographer** with **over 40 years** experiences in **numerical modeling researches** as **Overseas invited senior researcher (by Korean Government)** of Korea Ocean Research & Development Institute (KORDI; now KIOST), Korea Advanced Institute of Science & Technology (KAIST), Ministry of Science & Technology, **a high level-Researcher** (nominated by **President of Korean Government**) of National Fisheries & Research Development Institute (NFRDI), Ministry of Maritime Affairs & Fisheries, and **Full Professor** (nominated by **President of Korean Government**) of Gangneung-Wonju National University, Korea.

He obtained **2 Ph.D. degrees from USA** (Dept. of Civil Engineering, University of Texas at Austin, TX; 1984) and **China** (College of Environmental Sciences, Peking University, Beijing; 2004). His research interests cover a variety of fields in **Meteorology**-(Weather and climate change, Severe weather and disaster-flood, fog, cyclogenesis and tropical cyclones), **Environmental Science & Engineering**-(Health GIS and Modeling, Air pollution modeling and data analysis), and **Physical Oceanography**-(Ocean wave & circulation modeling, Ocean environment modeling for fishery) in collaboration with universities and government institutions in **Korea, USA, Canada, England, Russia, Germany, France, Belgium, Nigeria, Iran, Turkey, India, Australia, Thailand, Malaysia, Singapore, Hong Kong, Taiwan, China, Japan, Chile and Mexico**, etc..

He acted as not only **Interpreter and Investigator of Korea Antarctic Scientific Expedition Team** for two times (1985~1987), but also **Korean Government Representative for Inter-governmental Meetings on Antarctic Treaty and Science Policies** and then received **National Order of Civil Merit-Mogryeon Medal** from Korean Government. He has been **Council member** of **Ministry of Environment, Ministry of Maritime and Fishery Affairs, Ministry of Education of Korean Government**, and **Evaluation (or Deliberation) Committee Members** of **institutes controlled by Korean Government** (**Korean Science & Engineering Foundation (KOSEF), Korea Research Foundation (KRF), National Research Foundation (NFR), Korea Institute of Science & Technology Information (KISTI), National Institute of Environmental Research (NIER), Korea Hydrographic & Oceanographic Agency (KHOA), National Fishery Research & Development Institute (NFRDI)**, etc.) and **Provincial Governments of Korea**.

He has performed his duties on **President of Korean Environmental Sciences Society** for 2 years (2002~2003), **President and Vice President of Asia-Oceania Geosciences Society (AOGS; 60 nations; Singapore -Atmospheric & Oceanic Sciences sections)** for 5 years (2005~2009) and **Deputy Director General of International Biographical Centre (UK)** (2005~Present). He has been **Director General of East Sea Regional Research Institute** (1989~1991) and **Dean of the Graduate School, Gangneung-Wonju National University** two times (2009~2012). In present, he is **Director General of Atmospheric & Oceanic Disaster research Institute, Korea, High-end Foreign Expert of South China Sea Institute of Oceanology, Chinese Academia Sinica (CAS), China, Adjunct Professor of Zhejiang Ocean University, China** and **Intergovernmental Oceanographic Commission (IOC) of UNESCO—WESTPAC Working Group Member on Tropical Cyclones**, etc.

He has been also acting as **Editor-in-Chief** of **13 international journals (USA, Singapore, India, Korea)** and **Editor** of **25 ones (USA, United Kingdom, Italy, Singapore, India, Nigeria, Canada, Hong Kong)** in the fields of Environment & Pollution, Disaster, Agriculture, Water resources, Hydrology, GIS, Physical sciences, Civil Engineering and Ocean Engineering, Oceanography, Fishery and Meteorology. He has served as not only **Committee Member, Keynote Speaker, Invited Speaker and Plenary Lecturer** but also more than 100 times **Session Chair or Convener** of many International Conferences in the world. Thus, he is very fluent to control both scientific and administrative affairs and to construct international networks.

(2) EDUCATIONAL QUALIFICATIONS

Degree	Period	Institution	Major Field
Ph.D.	1999 ~2004	College of Environmental Sciences, Peking University (北京大學) , Beijing 100871, The People's Republic of China	Atmospheric Chemistry & Environment Modeling (<i>Thesis</i> : Influence of large scale motion and atmospheric boundary layer upon dust storm generation and local particulate concentration)
Ph.D.	1980 ~1984	Dept. of Civil Engineering, University of Texas at Austin , Austin, TX 78712, USA.	Coastal / Marine Meteorology & Numerical Modeling (<i>Thesis</i> : On the formation of nocturnal coastal surface wind speed maximum)
MS	1976 ~1978	Dept. of Meteorology, Seoul National University , Seoul 151-742, Korea	Marine Meteorology / Physical Oceanography & Numerical Modeling (<i>Thesis</i> : Study on numerical prediction of wind waves under the rapidly development of extra-tropical cyclone in the East Sea)
BS	1968 ~1976	Dept. of Meteorology, Seoul National University , Seoul 151-742, Korea	Meteorology

(3) EMPLOYMENT

- 0 2014-Present: [Atmospheric & Oceanic Disaster Research Institute \(Korea\)](#): **Director General** (理事長)
- 0 1988-2014: [Gangneung-Wonju National University \(Korea\)](#): **Full Professor (Associate Professor** (正教授; 1988-1994)); Coastal Meteorology, Atmospheric Chemistry and Modeling, Oceanic Environment modeling and Analysis, Ocean waves and current modeling and GIS
- 0 2015-Present: [South China Sea Institute of Oceanology, Chinese Academy of Science \(CAS\) \(China\)](#): **High-end Foreign Expert** (高端外國專家, from March 1, 2015)
- 0 2013-Present: [Zhejiang Ocean University \(China\)](#): **Adjunct Professor** (兼職教授, from Sept. 25, 2013)
- 0 2011-2012: [Gangneung-Wonju National University \(Korea\)](#): **The Graduate School, Dean** (大學院長)
- 0 2009-2011: [Gangneung-Wonju National University \(Korea\)](#): **The Graduate School, Dean** (大學院長)
- 0 2003-2005: [East Sea Fisheries Research Institute, National Fishery Research & Development Institute \(NFRDI\), Ministry of Maritime Affairs & Fisheries \(Korea\)](#): **High Level Fishery Researcher** (研究官)
(Nominated by **President of Korean Government**; (韓國政府 大統領發令); Ocean environment modeling and analysis for fisheries
- 0 1997-1999: [East Sea Fisheries Research Institute, National Fishery Research & Development Agency \(NFRDA\), Ministry of Maritime Affairs & Fisheries \(Korea\)](#): **High Level Fishery Researcher** (研究官)
(Nominated by **President of Korean Government** (韓國政府 大統領發令); Ocean environment modeling and analysis for fisheries
- 0 1989-1991: [Donghae Coastal Region Research Institute, Gangneung-Wonju National University \(Korea\)](#): **Director General** (所長)
- 0 1988-1990: [Dept. of Atmospheric & Environmental Sciences, Gangneung-Wonju National University \(Korea\)](#): **Chairman** (科長)
- 0 1984-1988: [Korea Ocean Research & Development Institute\(KORDI\), Korea Advanced Institute of Science & Technology \(KAIST\), Ministry of Science & Technology\(Korea\)](#): **Overseas Invited Senior Researcher by Korean Government** (韓國政府招請 海外誘致科學者), Ocean Environmental Engineering, Physical Oceanography and Marine Meteorological modeling & analysis
- 0 1981-1983: [Dept. of Civil Engineering, University of Texas at Austin \(USA\)](#): **Research Assistant** (研究助教), Fluid Dynamics, Coastal Meteorology
- 0 1979-1980: [Atmospheric Research Laboratory, University of Illinois at Urban-Champaign \(USA\)](#): **Research Assistant** (研究助教), Meso-Meteorology

(4) PROFESSIONAL POSITION & LEADERSHIP (Abridged.)-(USA, UK, Canada, Germany, Turkey, United Arab Emirates, India, Malaysia, Singapore, China, Japan, Korea, etc.)

1) President / Dean / Director / Committee Member/Working Group Member :

- 0 **Director General (理事長)**: Atmospheric & Oceanic Disaster Research Institute, **Korea** (2014-Present)
- 0 **Full Professor(正教授)**: Dept. of Atmospheric & Environmental Sciences, Gangneung-Wonju National University, **Korea** (1988-2014) (**Associate Professor** (1988-1994))
- 0 **Dean (大學院長)**: Graduate School, Gangneung-Wonju National University, **Korea** (2011-2012)
- 0 **Dean (大學院長)**: Graduate School, Gangneung-Wonju National University, **Korea** (2009-2011)
- 0 **High-end Foreign Expert (高端外國專家)**: South China Sea Institute of Oceanology, Chinese Academy of Science (CAS), **China** (2015 ~ Present)
- 0 **Adjunct Professor (兼職教授)**: Zhejiang Ocean University, **China** (2013 ~ Present)
- 0 **Deputy Director General (副理事長)**: International Biographical Centre (IBC), **UK (England)** (2005-Present)
- 0 **Internal Conference Chair & Technical Committee Member** "12016 2nd International Conference on Advances in Environment Research", Shanghai, **China**, July 7~9, 2016 (2015 ~ Present)
- 0 **Internal Scientific & Advisory Committee Member** "10th International Conference on Air Quality-Science & Application", Milan, **Italy**, March 14-18, 2016 (2015 ~ Present)
- 0 **Scientific Committee Member**: "Joint EOGC-GIS4NDM 015 International Conference", Al-Ain, **United Arab Emirates**, December 8-10, 2015
- 0 **Technical Program Chair**: "ICESB 2015 International Conference on Environment Science & Biotechnology", Jinju, **Korea**, November 9~11, 2015
- 0 **Advisory Board Member**: "BIT-5th CMB 2015 Annual World Congress of Marine Biotechnology", Qingdao, **China**, November 6~8, 2015
- 0 **IOC of UNESCO—WESTPAC Working Group Member of Tropical Cyclones**: "The IOC (Intergovernmental Oceanographic Commission of UNESCO) Sub-Commission for the Western Pacific (WESTPAC) – Data Buoy Cooperation Panel, Tropical Cyclones, Intergovernmental Oceanographic Commission (IOC) of United Nation Educational, Scientific and Cultural Organization (UNESCO)", **United Nation**, January 13, 2015~Present,
- 0 **President (會長)**: "International Conference on Environmental Disaster Management & Prediction", Gangneung, **Korea**, August 18~20, 2014
- 0 **Advisory Board Member**: "BIT-4th WCMB 2014 Annual World Congress of Marine Biotechnology", Dalian, **China**, October 16~18, 2014
- 0 **Organizing Committee Member**: "3rd International Conference on Earth Scienc & Climate Change", San Francisco, **USA**, July 28~30, 2014
- 0 **International Scientific & Advisory Committee Member**: "9th International Conference on Air Quality-Science & Application", Garmisch-Partenkirchen, **Germany**, March 24~28, 2014, (2013 ~)
- 0 **Technical Committee Member**: "CCIT 2014 International Conference on Computer, Communications & Information Technology", Beijing, **China**, January 16~17, 2014
- 0 **Scientific ommittee Member** : "5th International Conference on Geo-Information Technology for Natural Disaster Management", Mississauga, **Canada**, October 9~11, 2013, (2012~ 2013))
- 0 **International Advisory Committee Member**: 5th International Conference on Health GIS 2013, Bangkok, **Thailand**, August 21~23, 2013
- 0 **Scientific Committee Member**: "4th International Conference on Earth Observation for Global Changes(EOGC'2013) And 2013 anual Conference of Canadian Institute of Geomatics (CIG)", Toronto, **Canada**, June 5-7, 2013
- 0 **Technical Committee Member**: "ICCNCE 2013 International Conference on Computer, Networks & Communication Engineering, Beijing, **China**, May 23~24, 2013
- 0 **Scientific Advisory Committee Member**: "4th International Symposium on Air Quality Management at Urban, Regional and global Scales and IUAPPA Regional Conference", Istanbul, **Turkey**, September 10-13, 2012
- 0 **International Advisory Committee Member**: "6th International Symposium on Advances in Science & Technology", Kuala Lumpur, **Malaysia**, May 24-25, 2012
- 0 **International Scientific & Advisory Committee Member**: "8th International Conference on Air Quality-Science & Application", Athen, **Greece**, March 19-23, 2012
- 0 **International Advisory Committee Member**: "5th International Symposium on Advances in Science & Technology", Mashhad, **Iran**, May 12-17, 2011
- 0 **Scientific Committee Member**: "1st International Conference on Managing Ecosystem Health of Tropical Seas: Environmental Management of Coastal Ecosystems, Putrajaya, **Malaysia**, 19-21, October 2010
- 0 **Chair of Organizing Committee Member**: "5th Program of East Asian Cooperative Experiment(PEACE)", Gangneung, **Korea**, 11-12 September 2010

- 0 **President (會長)**: Atmospheric Science (AS) and Oceanic Science Sections (OS), Asia-Oceania Geosciences Society (AOGS-53 Nations, Singapore-center) (2006-2008) (Vice-President: 2005-2006, President: 2008-2009 and Vice-President: 2005-2006), **Singapore**
- 0 **International Scientific & Advisory Committee Member**: “7th International Conference on Air Quality Science & Application” Istanbul, **Turkey**, 24-27, March, 2009
- 0 **Scientific Working Group Member**: “Pacific Ocean Remote Sensing Conference (PORSEC)”: Measurement Process (2008-Present), **USA**
- 0 **Council Member: Environmental Affinity Industry Inspection**: Ministry of Environment, **Korea** (2005-2007)
- 0 **Guest Professor** : State Key Laboratory of Environmental Simulation & Pollution Control, Peking University, Beijing, **China** (2005-2007) (中國 北京大學 招聘客員教授)
- 0 **Final Evaluation Deliberation Council Member on Next Generation Project**: Korea Institute of Environmental Science & Technology (KIEST), **Korea** (2004-2004)
- 0 **Co-President (會長)**: “3rd International Symposium on Air Quality Management”, Istanbul, **Turkey**, 26-30 September 2005
- 0 **Council Member: Korean Environmental Sciences Association**: **Korea** (2004-2005)
- 0 **Fishery Researcher (Nominated by President of Korean Government- 研究官 (韓國政府 大統領發令))**; East Sea Fisheries Research Institute, National Fishery Research & Development Institute(NFRDI), Ministry of Maritime Affairs & Fisheries, **Korea** (2003-2005)
- 0 **President (會長)**:: “International Symposium on Clean Environment”. Cheonan, **Korea**, 21-22 November 2003
- 0 **Council Member: Agriculture, Fisheries & Ocean Section**: Korean Research Foundation, **Korea** 2003-2004)
- 0 **Representative President among Environmental Sciences Societies in Korea (代表會長)**: “2003 Korean Scientific Festival-EXPO for Juvenile Science & Engineering Majors and Courses”, Korean Science Foundation, Ministry Science & Technology, Korean Government, **Korea**, August 13-17, 2003,
- 0 **Program Committee Member**: International Conference & Young Scientists on Computational Information Technology for Environmental Sciences, Tomsk, **Russia**, August, 2003
- 0 **Councilor**: Korean Federation of Science & Technology Society, **Korea** (2002-2003)
- 0 **Representative President among Environmental Sciences Societies in Korea (代表會長)**: “2002 Scientific EXPO for Middle School Students”, Korean Science Foundation, Ministry of Science & Technology, **Korea**, August 13-17, 2002
- 0 **President (會長)**: **Korean Environmental Sciences Society**, **Korea** (2002-2003) (Vice President: 1998~2002)
- 0 **Representative President among Environmental Sciences Societies in Korea (代表會長)**, Environment, Energy & Ecology Symposium, "2002 World Congress of Korean and Korean-Ethnic Scientists & Engineers", Korean Federation of Science & Technology Society, **Korea**, July, 10–14, 2002
- 0 **Director**: Korean Meteorological Society, **Korea** (2000-2001)
- 0 **Guest Invited Professor** : Environmental Science Center, **Peking University**, China(1999-1999) supported by Natural Science Foundation of China (NSFC), **China** (中國 北京大學 招聘訪問教授- 1 級 科學者), 中國科學財團支援)
- 0 **Fishery Researcher (Nominated by President of Korean Government - 研究官 (韓國政府 大統領發令))**; East Sea Fisheries Research Institute, National Fishery Research & Development Agency(NFRDA), Ministry of Maritime Affairs & Fisheries, **Korea** (1997-1999)
- 0 **International Scientific Committee Member**: “International Marine Science Conference”, Kuala Kerengganu, **Malaysia**, August, 25-27, 1997
- 0 **Guest Invited Researcher: Meteorological Research Institute (MRI)**, Japan Meteorological Agency, Japan (1997-1997) supported by MRI, **Japan** (日本氣象廳 氣象研究所 招聘訪問研究者 - 日本氣象研究所 支援)
- 0 **Guest Invited Researcher: Meteorological Research Institute**, Japan Meteorological Agency, Japan (1994-1994) supported by MRI of Technology (1996-1998), **Japan** (日本氣象廳 氣象研究所 招聘訪問研究者, -日本氣象研究所 支援)
- 0 **Guest Invited Researcher: Institute of Oceanology**, Chinese Academia Sinica, China (1995-1996) supported by Natural Science Foundation of China (NSFC), **China** (中國科學院 海洋研究所 招聘訪問研究者 (1 級 科學者) - 中國科學財團 支援)
- 0 **Scientific Committee Member**: International Symposium on Metropolitan Development & Environment, **China**, October 22-23, 1994
- 0 **Education Courses Deliberation Council Member**: Ministry of Education, **Korea** (1994-1999)
- 0 **Ocean Reservation Consulting Council Member**: Ministry of Environment, **Korea** (1992-1994)
- 0 **Representative**: Korea Environmental Science & Research Association, **Korea** (1991-1993)
- 0 **Ocean Reservation Council Member**: Marine Police Administration, Ministry of Domestic Affairs, **Korea** (1990-1992)
- 0 **Director General (所長)**: Donghae Coastal Region Research Institute, Kangnung National University, **Korea** (1989-1991)
- 0 **Professor (教授)**: Department of Atmospheric Environmental Sciences, Kangnung National University (renamed in 2009, Gangneung-Wonju National University), **Korea** (1988-Present)
- 0 **Chairman**: Department of Atmospheric Sciences, Kangnung National University, **Korea** (1988-1990)

- 0 Investigator, Korean Antarctic Expedition Team (韓國南極探查團)): Korean Government, King George Island, **Antarctica** (1987-1987)
- 0 Korean Government Representative (韓國政府代表): SCAR committee (Antarctic Science & Policy), Sandiego, **USA** (1986-1986)
- 0 Korean Government Representative (韓國政府代表): Intergovernmental Meeting on Antarctic Science & Policy, Racine, **USA** (1986-1986)
- 0 Investigator, 1st Korean Antarctic Expedition Team (韓國南極探查團): Korean Government, King George Island, **Antarctica** (1985-1985)
- 0 Overseas Invited Senior Researcher (韓國政府海外誘致科學者): Korea Ocean Research & Development Institute (KORDI, Now KIOST), **Korea** Advanced Institute of Science & Technology (KAIST), Ministry of Science & Technology, **Korea** (1984-1988)
- 0 Session Chair & Convenor of international conferences: more than 100 times (**Russia, Belgium, Turkey, Argentine, Australia, India, Malaysia, Indonesia, Thailand, China, Taiwan, Hong Kong, Japan**)

2) Debater / Keynote Speaker / Plenary Speaker / Invited Speaker (in recent):

- 0 Keynote Speaker: 2016 2nd International Conference on Advances in Environmental Research, Shanghai, **China**, July 7-9, 2016 (2015 ~ Present)
- 0 English Debater: Arirang TV English Discussion (UPFRONT Ep88)-- "Strategies for the New Climate Regime" on COP21 Paris Agreement (Nov. 30-Dec. 12, 2015, Paris, France) to UNFCCC (United Nation Framework Convention on Climate Change), **Seoul, Korea**, December 10-13, 2015
- 0 Keynote Speaker: 6th International Conference on Health GIS 2015, Mysore, **India**, November 19-21, 2015
- 0 Keynote Speaker: ICESB 2015 International Conference on Environment Science & Biotechnology, Jinju, **Korea**, November 9-11, 2015
- 0 Keynote Speaker: BIT's 5th Annual World Congress of Marine Biotechnology, Qingdao, **China**, November 6-8, 2015
- 0 Keynote Speaker: 5th International Symposium on Remote Sensing of Indian Ocean-South China Sea & Typhoon Sciences, Gangzhou, **China**, August 24-25, 2015
- 0 Keynote Speaker: "International Conference on Environmental Disaster Management & Prediction", Gangneung, **Korea**, August 18-20, 2014
- 0 Keynote Speaker: BIT's 4th Annual World Congress of Marine Biotechnology, Dalian, **China**, October 16-18, 2014
- 0 Keynote Speaker: BIT's 3rd Annual World Congress of Marine Biotechnology, Hangzhou, **China**, September 23-25, 2013
- 0 Invited Speaker: Zhejiang Ocean University, Zhoshan, **China**, September 25, 2013
- 0 Keynote Speaker: 5th International Conference on Health GIS 2013, Bangkok, **Thailand**, August 21-23, 2013
- 0 Keynote Speaker: 4th International Conference on Geo-Information Technology for Natural Disaster Management (GIT4NDM2012)", Colombo, **Sri Lanka**, November 7-8, 2012
- 0 Keynote Speaker: 6th International Symposium on Advances in Science & Technology (6th SASTech)", Kuala Lumpur, **Malaysia**, May 24-25, 2012
- 0 Plenary Lecturer: 1st International Conference of Disaster Prevention Technology and Management 2010 (DPTM 2010)", Chongqing, **China**, October 23-25, 2010
- 0 Keynote Speaker: 3rd International Conference on Geo-information Technology for Natural Disaster Management & Rehabilitation, Chiangmai, **Thailand**, October 19-20, 2010
- 0 Keynote Speaker: 3rd International Conference on Health GIS (Health GIS 2009)", Hyderabad, **India**, July 24-26, 2009
- 0 Keynote Speaker: International Marine Science Conference, Kuala Terengganu, **Malaysia**, August 25-27, 1997

(5) EDITORIAL BOARD(USA, UK, Italy, Canada, India, Hong Kong, Nigeria, Singapore, Korea)

(Total 38 International Journals – 13 (Editor-in-Chief) & 25 (Editor). In present ---10 (Editor-in-Chief) & 20 (Editor).

1) Editor-in-Chief (10 Journals-USA, India, Singapore, Korea):

- 0 "International Journal of Oceans and Oceanography (SCOPUS)", Research India Publication (**India**)(2014-Present)
- 0 "American Journal of Environmental Protection", Science & Education Publishing (**USA**) (2014-Present)
- 0 "American Journal of Food Science & Technology", Science & Education Publishing (**USA**) (2014-Present)
- 0 "International Journal of Lakes and Rivers", Research India Publication (**India**)(2014-Present)
- 0 "Trends Journal of Sciences Research", (**USA**) (2014-present)
- 0 "Journal of Earth Sciences", Betty Jones & Sisters Publishing (**USA**) (2015-Present)
- 0 "Current Development in Oceanography (Copernicus) ", Pushpa Publishing Co. (**India**) (2010-present)
- 0 "Far East Journal of Ocean Research (Copernicus) ", Pushpa Publishing Co. (**India**) (2007-2009);

- 0 "Advances in Geosciences (SCOPUS), V.5", World Scientific Publishing Co. (Singapore) (2005-2006)
- 0 "Journal of Korean Environmental Sciences Society (English version; KSCI)", Korean Environmental Sciences Society (Korea) (2002-2003)

2) Associate Editor-in-Chief (3 Journals-USA, India):

- 0 "Disaster Advances (SCIE, SCOPUS)", Environmental Disaster Research Institute, (India) (2015-Present)
- 0 "Current Advances In Environmental Science", American V-King Publishing LTD. (USA) (2014-Present)
- 0 "International Journal of Environment and Resources", Science & Engineering Publishing Co. (USA)(2012-Present)

3) Editor (27 Journals-USA, UK, India, Canada, Italy, Hong Kong, Singapore, Nigeria):

- 0 "International Journal of Marine Science & Ocean Technology," SciDoc Publishers (USA) (2015-Present)
- 0 "Journal of Earth Science & Engineering," David Publishing Co. (USA) (2015-Present)
- 0 "Journal of Scientific Research & Reports", SCIENCEDOMAIN International (India) (2014-Present)
- 0 "Open Journal of Ocean and Coastal Sciences", Science Online Publishing (USA) (2014-Present)
- 0 "Open Journal of Atmospheric & Climate Change", Science Online Publishing (USA) (2014-Present)
- 0 "Journal of Environment & Human", Scientific Online Publishing (USA) (2014-Present)
- 0 "Advanced Research in Engineering Sciences", Alp Computer Education Society (India) (2014-Present)
- 0 "Advanced Shipping & Ocean Engineering", World Academic Publishing Co. (Hong Kong) (2013-Present)
- 0 "International Journal of Research in Chemistry & Environment", Self Publishing Co. (India) (2013-Present)
- 0 "Universal Journal of Geoscience", Horizon Research Publishing Co, (USA) (2013-Present)
- 0 "American Journal of Environmental Protection", Science & Education Publishing (USA) (2013-Present)
- 0 "American Journal of Food Science & Technology", Science & Education Publishing (USA) (2013-Present)
- 0 "Frontiers in Water Resources", Edinwinsel Press (U.K.: England) (2013-2014)
- 0 "American Journal of Environmental Engineering", Scientific & Academic Publishing (USA) (2012-Present)
- 0 "African Journal of Agricultural Research", Academic Journals (Nigeria) (2011-2014)
- 0 "International Journal of the Physical Sciences", Academic Journals (Nigeria) (2011-Present)
- 0 "Research Journal of Chemistry & Environment (SCIE)", Environmental Disaster Research Institute (India) (2011-Present)
- 0 "Global Meteorology (Copernicus)", Pagepress Publications (Italy) (2011-2013)
- 0 "International Journal of Environment & Pollution (SCI)-Special issue", Inderscience Publishers (U.K.: England) (2009-Present)
- 0 Disaster Advances (SCIE)", Environmental Disaster Research Institute, (India) (2009-Present)
- 0 "International Journal of Water Resources & Environmental Engineering", Academic Journals (Nigeria) (2009-Present)
- 0 "International Geoinformatics Research & Development Journal", International Research Center (Canada) (2009- Present);
- 0 "The Open Atmospheric Science Journal (CABI)-", Bentham Science (USA) (2007-Present);
- 0 "Far East Journal of Ocean Research (Copernicus)", Pushpa Publishing Co. (India) (2007-2009);
- 0 "Advances in Geosciences, V. 9(SCOPUS)", World Scientific Publishing Co. (Singapore) (2006-2007);
- 0 "Geospatial Today" (India) (2002-2003).
- 0 "Damage & Fracture Mechanics", Wessex Institute of Technology (U.K.: England) (1999-2001);

(6) AWARDS/HONORS

- 0 **Best Presentation Award**: conferred by 6th International Congress of Chemistry and Environment 2nd International Society BioTechnology Conference, Antwerp, Belgium, July 10, 2013 (最高發表狀 - Belgium)
- 0 **Meritorious Plate**: Gangneung-Wonju National University, Korea, 2012 (韓國, 江陵原州大學校-功勞牌)
- 0 **Excellent Presentation of Paper** : Korean Society of Environmental Engineers, Korea, 2009 (韓國, 大韓環境工學會學術研究發表會 論文狀)
- 0 **Meritorious Prize** : Gangneung-Wonju National University, Korea, 2008 (韓國, 江陵原州大學校 表彰章)
- 0 **Academic Award** : Kangnung National University, Korea, 2007(韓國, 江陵大學校 學術賞)
- 0 **2000 Outstanding Intellectuals of the 21st Century** : International Biographical Centre (IBC), United Kindom (U.K. - England), 2005 (21世紀 卓越知識人 2000 - 英國)
- 0 **Meritorious Prize** : Korean Environmental Sciences Society, Korea, 2004 (韓國環境科學會 功勞賞)
- 0 **Meritorious Prize** : Administrator of Korean Meteorological Administration, Korean Government, Korea, 1999 (韓國政府 氣象廳 授與, 功勞賞)

- 0 **9th Scientific & Technological Prize on Excellent Paper**: Korean Federation of Science & Technology Societies, **Korea**, 1999 (韓國科學技術團體總聯合會, 第9回科學技術優秀論文賞)
- 0 **National Order-Magnolia** : Korean Government, **Korea**, 1986 (韓國政府 授與, 國民勳章 木蓮章)
- 0 **Meritorious Prize-Chungmu Gold Prize** : Sea Explorers of Korea, **Korea**, 1986 (韓國海洋少年團聯盟, 功勞賞-忠武金章)

(7) RESEARCH PROJECTS (Since 2000)

As PI

- 0 2015-Present: **Wind storm research in the northern region of the South China Sea (南海北部暴風潮研究)**-- (Chinese Academy of Sciences (CAS), South China Sea Institute of Oceanology; **China** (中國, 中國科學院, 2015 高端外國專家)
- 0 2014-2015: **Safety management and prediction on the relationship of long and short term sea temperature variations and coastal climate variations in the Donghae coastal sea**-- (Kangwon Provincial C-Grant, **Korea**)
- 0 2008-2012: **Generation mechanism and prediction of windstorm in the mountainous coast** -- (Korea Meteorological Administration; KMA, **Korea**)
- 0 2009-2010: **Effects of local atmospheric and oceanic circulations and sea surface temperature on the coastal fog formation** -- (Korea Science and Engineering Foundation; KOSEF, **Korea**)
- 0 2007-2008: **Comparison of temporal high concentrations of particulate matter (PM) to the concentrations of gases (CO, NO_x) during dust-storm period** – (Korea Research Foundation; KRF, **Korea**)
- 0 2006-2007: **Relation between PM1, PM2.5 and PM10 concentrations and atmospheric boundary layer in the mountain and coast before and after Yellow Sand event** – (Korea Research Foundation; KRF, **Korea**)
- 0 2006-2007: **Generation mechanism and prediction of windstorm in the mountainous coast** -- (Korea Meteorological Administration, KMA, **Korea**)
- 0 2002-2006: **Prediction technology on heavy snowfall in Kangwon province**--(Korea Meteorological Administration, KMA)
- 0 1999-2002: **Analysis of marine meteorological environment and prediction technology** – (Korea Meteorological Administration; KMA, **Korea**)
- 0 1999-2000: **Relation between rainfall and development of atmospheric boundary layer in the mountainous coast during Korean flood period** -- (Korea Meteorological Administration; KMA, **Korea**)
- 0 1998-2000: **Development of Prediction technology on physical oceanic environment and ocean circulation for the optimum selection of artificial fishing farm**--(Korea Science & Engineering Foundation; KOSEF, **Korea**)

(8) RESEARCH FIELDS

Applied meteorological modeling, Air pollution dispersion modeling, and Coastal ocean process as following phenomena: **Severe weather (Meteorology and GIS)**– Climate change, Gust & Wind storm, Heavy rainfall, Heavy snowfall, Internal Gravity Waves, Flood, Fog, Urban heat waves, Cold waves, Ice rain, Typhoon structure, Meso-cyclogenesis, Climate GIS, Atmospheric Boundary Layer-Convective Boundary layer, Thermal Internal Boundary Layer, Inversion layer, Marine Atmospheric Boundary Layer

- 2) Air pollution modeling (Environmental Engineering and GIS)** – Duststorm transport modeling and monitoring, Air quality management on aerosol and gas, Pollution impact to health and forest, Pollution GIS
- 3) Oceanography & Climate (Oceanography and GIS)** – Physical oceanography modeling, Cold sea outbreak, Ocean wave prediction, Ocean current modeling, Typhoon track, Coastal lows, Marine wind storm, Marine fog, Marine disaster prevention, Ocean environment modeling and analysis for fisheries
- 4) Antarctic Climate (Climatology & Logistics)** – Arctic & Antarctic climate modelings, Weather forecasting & analysis, Low-level jet, Antarctic expedition & logistics

(9) ABILITY OF LANGUAGES

- 0 **Speaking**: English, Korean, Chinese, Japanese
- 0 **Writing** : English, German, Korean, Chinese, Japanese

(10) TEACHING & RESEARCH (China, Singapore, Thailand, India, Korea)

(1) South China Sea Institute of Oceanology (China; 中國, 中國科學院 南海海洋研究所)

0 High-end Foreign Expert (高端外國專家, 2013~Present) (from March 1 ~ December, 2015).

(2) Zhejiang Ocean university (China; 中國, 浙江海洋學院)

0 Adjunct Professor (兼職教授, 2013~Present), Zhejiang Ocean University (from Sept. 25, 2013).

(3) National University of Singapore (NUS; Singapore)

0 Examiner of Ph.D. student dissertation (Department of Civil & Environmental Engineering, National University of Singapore in 2010 and 2011). NUS is ranked as 24th in world class university and 2nd in Asia by QS evaluation in 2013.

(4) Asian Institute of Technology (AIT founded by SEATO; Thailand)

0 Examiner of Ph.D. student dissertations in School of Engineering and Technology, Asian Institute of Technology in 2010). The Asian Institute of Technology (AIT) founded by SEATO (Southeast Asia Treaty Organization(~1954) in 1959 is an international institution for higher education in engineering, advanced technologies, and management and planning. It "promotes technological change and sustainable development" in the Asia-Pacific region, through higher education and research.

(5) Acharya Nagarjuna University (India)

0 Examiner of Ph.D. student dissertations (Department of Environmental Sciences, Acharya Nagarjuna University in 2014)), Nagarjuna Nagar, Guntur District, Andhra Pradesh, India, Pin 522510 from February 7, 2014.

(6) Gangneung-Wonju National University (Korea)

1) He acted In Kangnung National University and Gangneung-Wonju National University as

0 Dean, Graduate School, Gangneung-Wonju National University, 2011~2012.

0 Dean, Graduate School, Gangneung-Wonju National University, 2009~2011

0 Director General, Donghae Coastal Region Research Institute, 1989~1991

0 Chair person, Department of Atmospheric Sciences, 1988~1990

0 Professor, Department of Atmospheric & Environmental Sciences, 1988~Present

2) He received awards from Gangneung-Wonju National University two times for excellent academic achievement

0 Meritorious Plate, 2012

0 Meritorious Prize, 2008

0 2006 Academic Award, 2007

3) He is teaching 12 courses in the fields of Meteorology (1988~Present),

0 Atmospheric Environment and Physical Oceanography as both undergraduate courses for B.S. degree and graduate courses for M.S. and Ph.D. degrees

- Atmospheric Environmental Engineering, Atmospheric Boundary Layer Meteorology, Air Pollution Meteorology, Environmental Impact Assessment, Marine Meteorology, Navigation Meteorology & Experiment, 0 General Oceanography, Advanced Marine Meteorology, Dynamical Oceanography & Experiment, Advanced Dynamical Oceanography, Advanced Physical Oceanography, Ocean Environment

4) He has undertaken researches as

0 Air Pollution Numerical Modeling/Analysis & GIS: Dust Storm Generation, Air Pollutant Transport Modeling, Particle Trajectory, Nano-Aerosol Chemical Analysis, Fine Mesh Particle/Indoor Pollution, Urban Ecology

0 Meteorological Numerical Modeling & GIS: Extra- and Tropical Cyclones(Typhoon), Disaster prevention, Tropical Night, Heavy Rainfall & Flood, Snowfall, Fog, Mountain & Coastal Environment, Windstorm and Internal Gravity Waves, Urban & Coastal Climate, Heat Island Effect, Coastal Low Development, Atmospheric & Marine Boundary Layer Processes

0 Ocean Waves/Circulation Numerical Modeling & GIS: Ocean Current, Ocean Waves, Ocean Pollution Modeling, Ocean Environmental modeling for Fishery Oceanography, SST Variation by Severe Weather and Upwelling, Oceanic Internal Waves, Typhoon Modeling, Typhoon Effect on Sea, Sea temperature variation & Chlorophyll variability, Wind and Wave Storms in the Strait

0 Antarctic Climate & Arctic Weather: Katabatic Wind, Low Level Jet, Boundary Layer Process

(7) [Environmental Association of Gangwon Province \(Korea\)](#)

0 Teaching a course of "Characteristic of atmospheric pollutants and reduction technology" for CEO (about 200) of environmental industries in Gangwon Province of Korea since 2002~ present.

(11) CONTRIBUTION TO ASIA-OCEANIA GEOSCIENCES SOCIETY (AOGS-60)

(1) Section President

0 2008 ~ 2009 : Vice President of Atmospheric Science Section
0 2006 ~ 2008 : President of Atmospheric Science Section
0 2005 ~ 2006 : Vice President of Atmospheric Science Section
(Ref: <http://asiaoceania.org/society/public.asp?bg=event&page=report12.htm>)

(2) Editor-in-Chief

0 2006 ~ 2007 : Editor, Vol. 9, Solid Earth, Ocean Science and Atmospheric Science (Advances in Geosciences), World Scientific Printers
0 2005 ~ 2006 : Editor-in-Chief, Vol. 5, Oceans and Atmospheres (Advances in Geosciences), World Scientific Printers

(3) Session Convener

0 2015 (08/02 ~ 08, 2015: 12th AOGS-Singapore) : AS-06 (Air Quality Modeling and Monitoring)
0 2013 (06/24 ~ 28, 2013: 10th AOGS-Brisbane) : AS-21 (Air Quality Modeling and Monitoring and Health Impacts)
0 2011 (08/08 ~ 12, 2011: 8th AOGS-Taipei) : AS-15 (Air Quality Modeling and Monitoring and Health Impacts)
OS14 (Typhoon Impact on Ocean Environment and Disaster)
0 2010 (07/05 ~ 09, 2010: 7th AOGS-Hydrabad) : AS-27 (Atmospheric Environment and Disaster Issues)
0 2009 (08/11 ~ 15, 2009: 6th AOGS-Singapore) : AS-10 (Atmospheric Environment and Pollution)
0 2008 (06/16 ~ 20, 2008: 5th AOGS-Busan) : AS10 (Atmospheric Environment and Pollution)
0 2007 (07/31 ~ 8/4, 2007: 4th AOGS-Bangkok) : AS11 (Atmospheric Environment and Pollution)
0 2006 (07/10 ~ 14, 2006: 3rd AOGS-Singapore) : AS-13 (Atmospheric Environment)
0 2005 (06/16 ~ 20, 2005: 2nd AOGS-Singapore) : OA-4 (Atmospheric Environment),

(12) PUBLICATIONS (Abridged major papers since 2004)

He edited 4 books and since 1983, about 300 articles were presented in Journals and International Conferences held in USA, England, Germany, Belgium, Netherlands, Austria, Russia, Spain, Nigeria, Argentina, Turkey, India, Australia, Thailand, Malaysia, Singapore, China, Hong Kong, Taiwan, Japan, Korea, etc.

- 0 **Hyo Choi and Mi Sook Lee, 2015:** Tropical storm Sarika merging in Typhoon Songda circulation by strong wind and sufficient moisture transportation. *Disaster Advances*,8(1), 1-7.
- 0 **Yong-Kyu Choi, Hyo Choi and Yong-hwa Lee, 2015:** Mean heat fluxes at Dok Island, *Disaster Advances*, 8(3), 1-7.
- 0 **Hyo Choi, 2015:** Mutual prediction of sea and air temperatures along the path of the East Korea Warm Current. *Disaster Advances*, 8(5), under printing.
- 0 **Hyo Choi, 2015:** Upper jet stream and moisture advection leading to development of a small secondary typhoon in association with Typhoon Songda. *Environment International*, under review.
- 0 **Hyo Choi, 2015:** Rapidly deepened pressure tendency through the Korea Strait influenced on generation of a small secondary typhoon split from an original one in the enclosed East Sea, *Atmospheric Research*, under review.
- 0 **Hyo Choi and Mi Sook Lee, 2015:** Effect of a calm area generated by internal gravity waves in the lee side of mountain and shrunken nocturnal surface inversion layer on high particulate matter concentrations. *Environment International*, under review.
- 0 **Hyo Choi and Mi Sook Lee, 2015:** Local Abrupt High Concentrations of Particulate Matters and Gases (CO, NO_x, O_x) for a Fall Yellow Dust Period, *Natural Hazards*, under review.

- 0 **Hyo Choi and Mi Sook Lee, 2015:** Sea fogs along the Korean western coast by the intensified cyclonic winds under cyclogenesis in the Bohai Sea and the intrusion of cool waters toward the Yellow Sea. *Environment International*, under review.
- 0 **Hyo Choi and Mi Sook Lee, 2015:** Effects of wind shift by cold front and diurnal atmospheric boundary layer on abrupt high (PM₁, PM_{2.5} and PM₁₀) concentrations at a coastal city for a Chinese Yellow Dust period. *Environmental International*, under review.
- 0 **Hyo Choi and Mi Sook Lee, 2014:** Double compressions of atmospheric layer by geopotential tendency and vorticity and atmospheric boundary layer affected on abrupt high (PM₁, PM_{2.5} and PM₁₀) concentrations at a coastal city for a yellow dust period in October. *Advances in Meteorology*, Vol. 2014, Article ID 756230
- 0 **Hyo Choi, 2013:** Cold sea waters induced by cyclogenesis in the East Sea. *Disaster Advances*, 6(2), 12-20.
- 0 **Hyo Choi, 2013:** Sea fog by southerly warm air over cool sea waters of the southward North Korea Cold Current under cyclogenesis in the Yellow Sea. *Disaster Advances*, 6(5), 41-53.
- 0 **Hyo Choi, 2013:** Trapping effect of a calm zone by lee side-internal gravity waves and cyclonic winds on sudden high concentrations of particulate matters combined with the Yellow Dusts from GobiDesert in the Korean eastern coast. *Disaster Advances*, 6(11), 101~111
- 0 **Hyo Choi, 2012:** Extreme decrease of air temperature modified by a Typhoon passage in the Korean eastern coast, *Disaster Advances*, 5(1), 45-51.
- 0 **Hyo Choi and Mi Sook Lee, 2012:** Atmospheric Boundary Layer Influenced upon hourly PM₁₀, PM_{2.5}, PM₁ Concentrations and Their Correlations at Gangneung City before and after Yellow Dust Transportation from Gobi Desert. *Journal of Climate Research*, 7(1), 30-54.
- 0 **Hyo Choi, Mi Sook Lee and Soo Min Choi, 2012:** Cold sea surface temperature near Cheju Island responding to strong cyclonic wind and positive geopotential tendency behind a typhoon center along its track, *Journal of Marine Science & Technology*, 20(6), 684-692.
- 0 **Hyo Choi, 2011:** Characteristics of hourly variation of gaseous pollutant concentration at Gangneung, Korea for Yellow Sand Event period in winter-Case study of February 14~16, 2005. *Journal of Climate Research*, 6(1), 59-76.
- 0 **Hyo Choi, Mi Sook Lee and Soo Min Choi, 2010:** Wind storm generated by meso-scale cyclogenesis in the Korean eastern mountainous coast. *Disaster Advances*, 3(4), 324-333.
- 0 **Hyo Choi and Soo Min Choi, 2010:** Extremely heavy precipitation by Typhoon Rusa and orography in the Korean eastern coast. *Disaster Advances*, 3(4), 316-323.
- 0 **Hyo Choi, Doo Sun Choi and Soo Min Choi, 2010:** Meteorological condition and atmospheric boundary layer influenced upon temporal concentrations of PM₁, PM_{2.5} at a coastal city, Korea for Yellow Sand Event from Gobi Desert. *Disaster Advances*, 3(4), 309-315.
- 0 **Hyo Choi and Soo Min Choi, 2010:** Generation of windstorm in the eastern mountainous coast of Korea. *Disaster Advances*, 3(2), 24-34.
- 0 **Hyo Choi, 2010:** Extreme Cold sea outbreak near Cheju Island under strong wind and atmospheric pressure change by typhoon Rusa. *Disaster Advances*, 3(1), 31-42.
- 0 **Hyo Choi, 2010:** Impact of fine particulate matters transported from Gobi Desert to particulate concentrations (PM₁₀, PM_{2.5}, PM₁) for Yellow Sand Event period in Fall-Case study of October 27, 2003. *Journal of Climate Research*, 5(3), 219~233.
- 0 **Hyo Choi, 2009:** Heavy snowfall by orography and wind shift in cold front crossing Korean eastern coast. *Disaster Advances*, 2(4), 35~48.

- 0 **Hyo Choi, 2008**: Comparison of PM1, PM2.5 and PM10 concentrations in a mountainous coastal city, Gangneung before and after the Yellow Dust event in spring. *Journal of the Environmental Sciences*, 17(6), 633-645.
- 0 **H. Choi, Y.H. Zhang and K.H. Kim, 2008**: Sudden high concentration of TSP affected by atmospheric boundary layer in Seoul metropolitan area during duststorm period. *Environmental International*, 34(5), 635-647.
- 0 **Hyo Choi and Doo Sun Choi, 2008**: Concentration of PM10, PM2.5 and PM1 influenced by atmospheric circulation and atmospheric boundary layer in the Korean mountainous coast during duststorm. *Atmospheric Research*, 89, 330-337. [paper](#)
- 0 **H. Choi and Y.H. Zhang, 2008**: Prediction of duststorm evolution by vorticity theory. *Atmospheric Research*, 89, 338-350.
- 0 **Hyo Choi, and Milton S. Speer, 2007**: Influences of secondary chemical gas processes on PM1, PM2.5 and PM10 concentrations over the Korean coast. *Advances in Geosciences*, 9, 209-244.
- 0 **Hyo Choi, 2006**: An investigation of winter rainfall and snowfall in the mountain and coast. *Advances in Geosciences*, 5, 113-123.
- 0 **Hyo Choi, and Doo Sun Choi, 2006**: Impact of regional circulation and heat budget to tropical night. *Advances in Geosciences*, 5, 125-134.
- 0 **Hyo Choi, and Milton S. Speer, 2006**: The influence of synoptic-mesoscale winds and sea surface temperature distribution on fog formation near the Korea western peninsula. *Meteorological Applications*, 13(4), 347-360.
- 0 **Hyo Choi, 2006**: Development of prediction technique for local weather-Gangwon region heavy snowfall prediction skill development. Rep. 2002M-001-02, (Korean Meteorological Administration), 129-190.
- 0 **H. Choi and M.S. Speer, 2005**: Effects of atmospheric circulation and boundary layer structure on the dispersion of suspended particulates in the Seoul metropolitan area. *Meteorology and Atmospheric Physics*, 92(3), 239-254.
- 0 **Hyo Choi, and Yuan Hang Zhang, 2005**: Monthly variation of sea-air temperature difference in the Korean coast. *Journal of Oceanography*, 61(2), 359-367.
- 0 **Hyo Choi, 2005**: Characteristics of atmospheric circulation in the Sokcho coast. *Journal of Environmental Sciences*, 14(1), 41-51).
- 0 **Hyo Choi, 2005**: Development of prediction technique for local weather-Gangwon region heavy snowfall prediction skill development. Rep. no. 2002M, (Korean Meteorological Administration), 236-533.
- 0 **Hyo Choi, 2004**: Recycling of suspended particulates by atmospheric boundary depth and coastal circulation. *Journal of the Environmental Sciences*, 13, 721-731.
- 0 **Hyo Choi, 2004**: Tropical night (nocturnal thermal high) in the mountainous coastal city. *Journal of the Environmental Sciences*, 13, 965-985.
- 0 **Hyo Choi, 2004**: Persistent high concentration of ozone during windstorm conditions in southern Korea. *Meteorology & Atmospheric Physics*, 87, 93-107.
- 0 **H. Choi, Y.H. Zhang and S. Takahashi, 2004**: Recycling of suspended particulates by the interaction of sea-land breeze circulation and complex coastal terrain. *Meteorology & Atmospheric Physics*, 87, 109-120.
- 0 **Hyo Choi, 2004**: Development of prediction technique for local weather-Gangwon region heavy snowfall prediction skill development. Rep., 2002M-001-01, (Korean Meteorological Administration), 431-500.