

Curriculum Vitae

(1) NAME & ADDRESS

Dr. Hyo Choi, Professor (Former Dean of The Graduate School)
 Dept. of Atmospheric Environmental Sciences
 College of Natural Sciences, Gangneung-Wonju National University
 Gangneung, Gangwondo 210-702, Republic of Korea

Date of Birth: August 24, 1949
Place of Birth: Namhae-gun, Gyeongsangnam-do, Korea
Nationality: Republic of Korea



Hyo Choi is meteorologist, environmental scientist and physical oceanographer with over 40 years experiences in numerical modeling researches as Overseas invited senior researcher of Korea Ocean Research & Development Institute (KORDI), Korea Advanced Institute of Science & Technology (KAIST) in Seoul established by Korean Government and Full Professor of Gangneung-Wonju National University.

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, Meso & synoptic scale meteorology, Extra-tropical and tropical cyclones), **Environment**-(Health GIS and Modeling, Air pollution modeling and analysis), and **Oceanography**-(Ocean wave & circulation modeling, Ocean environment modeling for fishery) in collaboration with universities and government institutions in Korea, USA, Canada, England, Russia, Germany, 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 also acted as **Council member of Ministry of Environment, Ministry of Education of Korean Government, and Fishery Researcher** nominated by **President of Korean Government**, East Sea Fisheries Research Institute, National Fishery Research & Development Institute(NFRDI), **Ministry of Maritime Affairs & Fisheries**, etc., so far. He has been **President of Korean Environmental Sciences Society (Korea)** for 2 years (2002~2003), **President and vice President of Asia-Oceania Geosciences Society** (53 nations; Singapore-Atmospheric & Oceanic Sciences sections) for 5 years (2005~2009) and **Deputy Director General of International Biographical Centre (UK)** (2005~Present) and others. He has also served as **Director General of Donghae Coastal Region Research Institute, Kangnung National University** (1990~2001) and **Dean of the Graduate School, Gangneung-Wonju National University** for two time periods (2009~2011, 2011~2012).

He has been also acting as **Editor-in-Chief of 5 international journals** (USA, Singapore, India, Korea) and **Editor of 18 ones** (USA, United Kingdom (UK), Italy, Singapore, India, Nigeria, Canada, Korea) in the fields of Environment & Pollution, Disaster, Agriculture, Water resources, Hydrology, GIS, Physical sciences-Civil Engineering, Oceanography, Fishery and Meteorology. He has worked as **Scientific Committee Member** of many numbers of International Conference in the world. Thus, he is very fluent to control both scientific and administrative affairs and to make 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 Meteorology and 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	Physical Oceanography/Marine Meteorology (<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 2011-2012: **Gangneung-Wonju National University (Korea): The Graduate School, Dean**
- 0 2009-2011: **Gangneung-Wonju National University (Korea): The Graduate School, Dean**
- 0 1994-present: **Gangneung-Wonju National University (Korea): Full Professor** (Associate Professor (1988-1994)); Coastal Meteorology, Atmospheric Chemistry and Modeling, Oceanic Environment modeling and Analysis, Ocean waves and current modeling and GIS
- 0 2003-2005: **East Sea Fisheries Research Institute, National Fishery Research & Development Institute (NFRDI), Ministry of Maritime Affairs & Fisheries (Korea): Fishery Researcher**(Nominated by President of Korean Government); 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): Fishery Researcher**(Nominated by President of Korean Government); Ocean environment modeling and analysis for fisheries
- 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**; Physical Oceanography and Marine Meteorological modeling and analysis
- 0 1981-1983: **Dept. of Civil Engineering, University of Texas at Austin (USA): Research Assistant**; Coastal meteorology

(4) PROFESSIONAL LEADERSHIP (Abridged. SERVICES)

- 0 **Dean**: Graduate School, Gangneung-Wonju National University, Korea (2011-2012)
- 0 **Dean**: Graduate School, Gangneung-Wonju National University, Korea (2009-2011)
- 0 **Deputy Director General**: International Biographical Centre (IBC), **UK** (England; 2005-Present)
- 0 **International Scientific & Advisory Committee Member**: "9th International Conference on Air Quality-Science & Application", Garmisch-Partenkirchen, **Germany**, March 24~28, 2014 (2013~)
- 0 **Scientific Committee Member**: "5th International Conference on Geo-Information Technology for Natural Disaster Management", October 9~11, 2013, Mississauga, **Canada** (2012~)
- 0 **Keynote Speaker**: 3rd Annual World Congress of Marine Biotechnology (BIT3rd), Hangzhou, **China**, September 23~25, 2013
- 0 **Keynote Speaker**: 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 Annual Conference of Canadian Institute of Geomatics (CIG), Toronto, **Canada**, June 5-7, 2013 (2012~)
- 0 **Technical Committee Member**: "ICCNC 2013 International Conference on Computer, Networks & Communication Engineering, Beijing, **China**, May 23~24, 2013
- 0 **Keynote Speaker**: 4th International Conference on Geo-Information Technology for Natural Disaster Management (GIT4NDM2012)", Colombo, **Sri Lanka**, November 7-8, 2012
- 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 **Keynote Speaker**: 6th International Symposium on Advances in Science & Technology (6th SASTech)", 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 **Plenary lecturer**: "1st International Conference of Disaster Prevention Technology and Management 2010 (DPTM 2010)", Chongqing, **China**, October 23-25, 2010
- 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 **Keynote Speaker**: "3rd International Conference on Geoinformation Technology for Natural Disaster Management & Rehabilitation", Chiangmai, **Thailand**, October 19-20, 2010
- 0 **President, Organizing Committee**: "5th Program of East Asian Cooperative Experiment (PEACE)", Gangneung, Korea, 11-12 September 2010
- 0 **Keynote Speaker**: "3rd International Conference on Health GIS (Health GIS 2009)", Hyderabad, **India**, July 24-26, 2009
- 0 **International Scientific & Advisory Committee Member**: "7th International Conference on Air Quality Science & Application" Istanbul, **Turkey**, 24-27, March, 2009
- 0 **President**: Atmospheric Science (AS) and Oceanic Science Sections (OS), Asia-Oceania Geosciences Society (AOGS-53 Nations, **Singapore**-center) (2006-2008) (**Vice-President**: 2005-2006 and 2008-2009-AS, **Vice-President**: 2005-2006-OS)
- 0 **Scientific Working Group Member**: "Pacific Ocean Remote Sensing Conference (PORSEC)": Measurement process, (2008-Present),
- 0 **Guest Professor**: State Key Laboratory of Environmental Simulation & Pollution Control, Peking University, Beijing, **China** (2005-2007)

- 0 **Council Member: Environmental Affinity Industry Inspection:** Ministry of Environment, Korea (2005-2007)
- 0 **Council Member Final Evaluation Deliberation Council on Next Generation Project:** Korea Institute of Environmental Science & Technology (KIEST), Korea (2004-2004)
- 0 **Co-President:** "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**); East Sea Fisheries Research Institute, National Fishery Research & Development Institute(NFRDI), Ministry of Maritime Affairs & Fisheries, Korea (2003-2005)
- 0 **President:** "International Symposium on Clean Environment". Cheonan, Korea, 21-22 November 2003
- 0 **Council Member: Agriculture, Fisheries & Ocean Sectional:** Korean Research Foundation, Korea (2003-2004)
- 0 **Representative President among Environmental Sciences Societies in Korea:** "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 Technologies 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:** "2002 Scientific EXPO for Middle School Students", Korean Science Foundation, Ministry of Science & Technology, Korea, August 13-17, 2002
- 0 **President:** Korean Environmental Sciences Society, Korea (2002-2003) (Vice President: 1998-2002)
- 0 **Representative President among Environmental Sciences Societies in Korea,** 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)
- 0 **Fishery Researcher** (Nominated **by President of Korean Government**); 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 Terengganu, **Malaysia**, August, 25-27, 1997
- 0 **Keynote Speaker:** "International Marine Science Conference", Kuala Terengganu, **Malaysia**, August 25-27, 1997
- 0 **Guest Invited Researcher:** Meteorological Research Institute (MRI), Japan Meteorological Agency, **Japan** (1997-1997) supported by MRI
- 0 **Guest Invited Researcher:** Institute of Oceanology, Chinese Academia Sinica, **China** (1995-1996) supported by Natural Science Foundation of China (NSFC)
- 0 **Guest Invited Researcher:** Meteorological Research Institute, Japan Meteorological Agency, **Japan** (1994-1994) supported by MRI
- 0 **Scientific Committee Member:** International Symposium on Metropolitan Development & Environment, **China**, October 22-23, 1994
- 0 **Council Member, Education Courses Deliberation Council:** Ministry of Education, Korea (1994-1999)
- 0 **Council Member, Ocean Reservation Consulting Council:** Ministry of Environment, Korea (1992-1994)
- 0 **Representative:** Korea Environmental Science & Research Association, Korea (1991-1993)
- 0 **Council Member, Ocean Reservation Council:** Marine Police Administration, Ministry of Domestic Affairs, Korea (1990-1992)
- 0 **Director General:** Donghae Coastal Region Research Institute, Kangnung National University, Korea (1989-1991)
- 0 **Professor:** 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:** Korean Government, King George Island, **Antarctica** (1987-1987)
- 0 **Korean Government Representative:** SCAR committee (Antarctic Science & Policy), Sandiego, **USA** (1986-1986)
- 0 **Korean Government Representative:** Intergovernmental Meeting (Antarctic Science & Policy), Racine, **USA** (1986-1986)
- 0 **Investigator, 1st Korean Antarctic Expedition Team:** Korean Government, King George Island, **Antarctica** (1985-1985)
- 0 **Overseas Invited Senior Researcher:** Korea Ocean Research & Development Institute (KORDI), Korea Advanced Institute of Science & Technology (KAIST), Ministry of Science & Technology, Korea (1984-1988)
- 0 **Session chair & convener of international conferences:** more than 100 times

(5) CONTRIBUTION TO ASIA-OCEANIA GEOSCIENCES SOCIETY (AOGS;53 Nations)

(1) Section President (Vice 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 2011 (8/08 ~ 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 (7/05 ~ 09, 2010: 7th AOGS-Hydrabad) : AS-27 (Atmospheric Environment and Disaster Issues)
0 2009 (8/11 ~ 15, 2009: 6th AOGS-Singapore) : AS-10 (Atmospheric Environment and Pollution)
0 2008 (6/16 ~ 20, 2008: 5th AOGS-Busan) : AS10 (Atmospheric Environment and Pollution)
0 2007 (7/31 ~ 8/4, 2007: 4th AOGS-Bangkok) : AS11 (Atmospheric Environment and Pollution)
0 2006 (7/10 ~ 14, 2006: 3rd AOGS-Singapore) : AS-13 (Atmospheric Environment)
0 2005 (6/16 ~ 20, 2005: 2nd AOGS-Singapore) : OA-4 (Atmospheric Environment),
OA-7 (urban and Regional Climatology)

(6) EDITORIAL BOARDS (USA, UK, Italy, Canada, India, Nigeria, Korea)

(Total 18 Journals: (In present; Editor-in-Chief—2 international journals, Editor—10 international journals))

1) Editor-in-Chief (4 Journals-India, Singapore, Korea):

0 "Current Development in Oceanography", Pushpa Publishing Co. (India) (2010-present);
0 "Far East Journal of Ocean Research", Pushpa Publishing Co. (India) (2007-2009);
0 "Advances in Geosciences, 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 (1 Journal-USA):

0 "International Journal of Environment and Resources", Science and Engineering Publishing Company (USA) (2012-Present);

3) Editor (15 Journals-USA, UK, India, Canada, Italy, Nigeria):

0 "American Journal of Environmental Protection", Scientific & Education Publishing (USA) (2013-Present)
0 "American Journal of Environmental Engineering", Scientific & Academic Publishing (USA) (2012-Present)
0 "African Journal of Agricultural Research", Academic Journals (Nigeria) (2011-Present)
0 "International Journal of the Physical Sciences", Academic Journals (Nigeria) (2011-Present)
0 "Research Journal of Chemistry & Environment", Environmental Disaster Research Institute (India) (2011-Present)
0 "Global Meteorology", PagePress Publications (Italy) (2011-Present)
0 "International Journal of Environment & Pollution -Special issue", Inderscience Publishers (U.K.: England) (2009-Present)
0 "Disaster Advances", 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-", Bentham Science (USA) (2007-Present);
0 "Far East Journal of Ocean Research", Pushpa Publishing Co. (India) (2007-2009);
0 "Advances in Geosciences, V. 9", 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);
0 "Advanced in Fracture Mechanics", Wessex Institute of Technology (U.K.: England) (1996-1998),

(7) AWARDS

0 Meritorious Plate : President, Gangneung-Wonju National University, Korea, 2012
0 2009 Outstanding Presentation of Paper: President, Korean Society of Environmental Engineers, Korea, 2009
0 Meritorious Prize : President, Kangnung National University, Korea, 2008
0 2006 Academic Award : President, Kangnung National University, Korea, 2007
0 2000 Outstanding Intellectuals of the 21st Century: International Biographical Centre, England, 2005
0 Meritorious Prize : President, Korean Environmental Sciences Society, Korea, 2004
0 Meritorious Prize : Director, Administrator of Korean Meteorological Administration, Korean Government, 1999
0 9th Scientific & Technological Prize on Excellent Paper: President, Korean Federation of Science & Technology Societies, Korea, 1999

0 **National Order-Magnolia** : President, Korean Government, Korea, 1986

0 **Meritorious Prize-Chungmu Gold Prize** : President, Sea Explorers of Korea, Korea, 1986

(8) RESEARCH PROJECTS (Since 2000)

- 0 2008-2012: Generation mechanism and prediction of windstorm in the mountainous coast -- (Korea Meteorological Administration; KMA)
- 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)
- 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)
- 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)
- 0 2006-2007: Generation mechanism and prediction of windstorm in the mountainous coast -- (Korea Meteorological Administration, KMA)
- 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)
- 0 1999-2000: Relation between rainfall and development of atmospheric boundary layer in the mountainous coast during Korean flood period -- (Korea Meteorological Administration; KMA)
- 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)

(9) RESEARCH FIELDS

Applied meteorological modeling, Air pollution dispersion modeling, and Coastal ocean process as following phenomena:

- 1) **Severe weather (meteorology and GIS)** – climate change, gust & wind storm, typhoon, heavy rainfall, heavy snowfall, flood, fog, urban heat waves, cold waves,
- 2) **Air pollution modeling (Environmental Engineering)** – duststorm transport modeling and monitoring, air quality management on aerosol and gas, pollution impact to health and forest
- 3) **Oceanography & Climate (Oceanography and GIS)** – physical oceanography modeling, ocean wave prediction, ocean current modeling, Ocean environment modeling and analysis for fisheries, coastal lows, cold sea outbreak, disaster prevention
- 4) **Antarctic climate (Climatology & Logistics)** – Artic & Antarctic climate modeling, weather forecasting and analysis, low-level jet, Antarctic expedition & logistics

(10) ABILITY OF LANGUAGES

0 **Speaking**: English, Korean, Chinese, Japanese

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

(11) 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, Netherlands, Austria, Russia, Spain, Nigeria, Argentina, Turkey, India, Australia, Thailand, Malaysia, Singapore, China, Hong Kong, Taiwan, Japan, Korea, etc.

0 Hyo Choi, 2013: Cold sea waters induced by cyclogenesis in the East Sea. *Disaster Advances*, 6(2), 12-20.

0 Hyo Choi and Mi Sook Lee, 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 and Mi Sook Lee, 2013: Sea Fog/low level clouds under the intrusion of warm airs over cold sea induced by a coastal cyclogenesis, *Journal of Climate Research*, under publishing

0 Hyo Choi, and Mi Sook Lee, 2013: Double compressions of atmospheric layer by geopotential tendency and vorticity and atmospheric boundary layer influenced upon abrupt high (PM₁, PM_{2.5} and PM₁₀) concentrations at a

mountainous coastal city during a yellow dust period in October. *The Science of the Total Environment*, under publishing.

- 0 Hyo Choi, 2013: Effect of a cavity generated by internal gravity waves in the lee side of mountain and nocturnal surface inversion layer on high particulate matter concentrations. *The Science of the Total Environment*, under publishing.
- 0 Hyo Choi and Doo Sun Choi, 2013: Diurnal cycle of gases (CO, NO_x, O_x) and particulate matters (PM₁, PM_{2.5} and PM₁₀) concentrations at a Korean coastal city during the dust transportation from Gobi Desert in Mongolia. *Research Journal of Chemistry and Environment*, under review.
- 0 Hyo Choi and Mi Sook Lee, 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 Gobi Desert in the Korean eastern coast. *Research Journal of Chemistry and Environment*, under review.
- 0 Hyo Choi, 2013: Fractional analysis and correlations of PM₁, PM_{2.5} and PM₁₀ concentrations at a Korean eastern coastal city during a Spring dust storm period. *Research Journal of Chemistry and Environment*, under review.
- 0 Mi Sook Lee and Hyo Choi, 2013: Contribution of coarse and fine dust particles from Gobi Desert to abrupt high particulate matter concentrations-PM₁₀, PM_{2.5}, PM₁ at Gangneung city of Korea in May of 2007. *Research Journal of Chemistry and Environment*, under review.
- 0 Mi Sook Lee and Hyo Choi, 2013: 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. *Research Journal of Chemistry and Environment*, under review.
- 0 Hyo Choi and Mi Sook Lee, 2013: Coastal and sea fogs associated with atmospheric boundary layer after the passage of cold front. *Journal of Marine Science & Technology*, under review.
- 0 Hyo Choi, 2013: The re-intensification of a split typhoon in the East Sea passing by the Korea Strait. *Journal of Marine Science & Technology*, under review.
- 0 Hyo Choi and Mi Sook Lee, 2013: Extreme PM₁₀, PM_{2.5} and PM₁ concentrations in the mountainous coastal basin affected by lee side trapping of dust particles transported from Nei-Mongo under cyclonic motion and shrunken atmospheric boundary layer. *International Journal of Environment and Pollution*, under review.
- 0 Hyo Choi and Mi Sook Lee, 2013: Negative geopotential tendency and nocturnal boundary layer influenced on local abrupt concentrations of PM₁, PM_{2.5} and PM₁₀ associated yellow sand particles from Gobi Desert at a Korean coast. *International Journal of Environment and Pollution*, under review.
- 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, 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, 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, PM2.5 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, PM2.5, 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.
- 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 H. Choi and M. S. Speer, 2006: 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 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 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 H. 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.