

기후분석 & 모델링 연구실

Climate Analysis and Modeling Lab



윤진호
교수

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학위사항

- 2004** Ph.D. in Dept. Geological and Atmospheric Science, Iowa State Univ.
- 1999** M.S. in Dept. Geological and Atmospheric Sciences, Iowa State Univ.
- 1997** B.S. in Dept. Atmospheric Science, Seoul National Univ.

주요경력

- 2004 ~ 2009** Research Associate, University of Maryland, College Park
- 2009 ~ 2010** Research Associate, Climate Prediction Center/NOAA University of Maryland, College Park
- 2010 ~ 2016** Scientist, Pacific Northwest National Laboratory
- 2016 ~** Professor, School of Earth Sciences and Environmental Engineering, GIST
- 2013 ~** Adjunct Associate Professor Utah State University Fact Sheet

학회활동 및 수상실적 등

- Associate Editor for Journal of Climate(AMS, USA)
- Associate Editor for Asian Pacific Journal of the Atmospheric Science (APJAS, Korea)
- Lead Author for the Intergovernmental Panel on Climate Change (IPCC) sixth Assessment Report (AR6) Working Group 1 (WG1)

연구실 소개

기후변화는 전지구적인 문제이지만 지역적인 영향은 더 복잡합니다. 기후 분석 모델링 연구실에서는 그런 기후 변화에 대한 이해, 예측, 대응책을 다양한 관측자료의 분석 및 기후모델을 개발/응용등의 방법으로 이해하고 연구합니다. 세부적으로 다음과 같은 연구를 진행하고 있습니다.

- 기후변화와 기후변동성 (Climate Change & Climate Variability)
- 극한기후 (Climate Extreme)
- 기후모델링 (Climate modeling)
- 다양한 대응책 연구 (mitigation & geoengineering)



연구 성과

수행중인 주요 연구과제 (주요과제경력)

- 극한기후의 원인과 영향 (극지연구소 2016-2019)
- 지구온난화와 원격상관성 연구 (연구재단: 중견과제 2017~현재)
- 미세먼지와 기상.기후인자의 연관성 (국립환경과학원 2019 - 현재)
- 기후예측성 향상 (기상청 2016~현재)
- 가뭄센터 (기상청 2018~현재)

주요논문 (대표실적)

- Increasing water cycle extremes in California and relation to ENSO cycle under global warming(Nature Communications, 2015)
- Extreme fire season in California: a glimpse into the future? (BAMS, 2015)
- Assessing the relative influence of surface soil moisture and ENSO SST on precipitation predictability over the contiguous United States(Geophysical Research Letters, 2015)
- Dynamic-Model-Based Seasonal Prediction of Meteorological Drought over the Contiguous United States(Journal of Hydrometeorology, 2012)
- The role of carbonaceous aerosols on short-term variations of precipitation over North Africa(Atmospheric Science Letters, 2016)
- California from drought to deluge(Nature climate change, 2017)
- Concurrent increases in wet and dry extremes projected in Texas and combined effects on groundwater (Environmental Research Letters, 2018)
- Climate diagnostics of the extreme floods in Peru during early 2017(Climate Dynamics, 2020)

융합연구 및 비전

