

## Peer Review Publications

1. **Hussain Alsarraf**<sup>1</sup> (2021) Projected climate change over the Arabian Peninsula simulated using a WRF high resolution regional climate model. Accepted to International Journal of Global Warming.
2. **Hussain Alsarraf**<sup>1</sup>, Matthew Van Den Broeke, Hala Aljassar (2019) "Effects of Sea Breeze Circulation on Soil Temperatures over Kuwait Using in Situ Observations and the ECMWF Model". Atmospheric Science Journal Volume 13:29-42, Bentham Science Publishers.
3. Hala K. AlJassar<sup>\*</sup>, Marouane Temimi, Dara Entekhabi, Peter Petrov, **Hussain Alsarraf**, Panagiotis Kokkalis, Nair Roshni.(2019) Forward Simulation of Multi-Frequency Microwave Brightness Temperature over Desert Soils in Kuwait and Comparison with Satellite Observations. Remote Sensing 11(14):1647
4. Panagiotis Kokkalis<sup>\*</sup>, Hala K. Al Jassar, Stavros Solomos, Hamad Al Hendi, Vassilis Amiridis, Alexandros Papayannis, **Hussain Alsarraf**, Marwan Al Dimashki. (2018) Long-term ground-based measurements of aerosol optical depth over Kuwait City. Remote Sens. 2018, 10(11), 1807;
5. Van Den Broeke, M. S., and **Hussain Alsarraf**<sup>2</sup>, (2016) Polarimetric radar observations of dust storms at C- and S-band. J. Operational Meteor., 4 (9), 123–131.
6. **Hussain AlSarraf**<sup>1</sup>, and Broeke MV (2015) Using the WRF Regional Climate Model to Simulate Future Summertime Wind Speed Changes over the Arabian Peninsula. Journal of Climatology and Weather Forecasting, Volume 3, Issue 3: 1000144.
7. **Hussain AlSarraf**<sup>1</sup>, Broeke MV (2015) Using High-Resolution WRF Model Simulations to Investigate the Relationship between Mesoscale Circulations and Aerosol Transport over Kuwait. Journal of Climatology and Weather Forecasting, Volume 3, Issue 3: 126.  
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8. JA Qasem, H Nasrallah, BN Al-Khalaf, F Al-Sharifi, A Al-Sherafyee, SA Almathkouri, **H Alsarraf** (2008) Meteorological Factors, Aeroallergens and Asthma-Related Visits in Kuwait: A 12-Month Retrospective Study. 2008; 28(6): 435-441
9. **Alsarraf, Hussain**<sup>1</sup>, "Investigating the Impact of Climate Change on Dust Storms Over Kuwait by the Middle of the Century Simulated by WRF Dynamical Downscaling" (2013). ETD collection for University of Nebraska - Lincoln. AAI3605200. <https://digitalcommons.unl.edu/dissertations/AAI3605200>
10. **Hussain Alsarraf**<sup>1</sup> (2010) Relationship between the land/sea breeze circulations and the air pollution dispersion over the coastal area of Kuwait. ProQuest LLC 1479265.

## **In progress**

1. Hala AlJassar, Panos Kokkalis, **Hussain AlSarraf**, Nair Roshni. (2021) Validation of NASA SMAP Satellite over the desert test site of Kuwait. Submitted to Remote Sensing, MDPI.
2. **Hussain AlSarraf**, Hala AlJassar, Panos Kokkalis.(2021) Evaluating of NCEP and ECWMF-Era5 reanalysis climate models for precipitation and soil moisture from (2008-2018) over Kuwait. Submitted to Atmosphere, MDPI.