

A BETTER FUTURE FOR THE NEXT GENERATION: CARBON-CLIMATE FEEDBACK RESEARCH BASED ON EARTH SYSTEM MODELLING

Abstract

Earth system modellings (ESM) are useful tools for quantitatively projecting future climate states to produce more accurate scientific facts regarding climate change to prepare carbon-neutral strategies. However, it is found that land processes are the leading uncertainty factor in future climate projections. In order to reduce the uncertainty of future climate projections, comparisons between observational and modelled Interannual climate variability and relevant terrestrial responses can be good metrics for the evaluation of emergent model fidelity to the global carbon cycle and carbon-climate feedback. Large-scale climate variabilities such as El Niño–Southern Oscillation (ENSO), Arctic warming-induced cold waves and Arctic Oscillation, and impacts on vegetation activity and agricultural productivity would be delivered in this seminar.

Biography

Dr. Jin-Soo Kim is Assistant Professor at the School of Energy and Environment, City University of Hong Kong. His research focuses on interactions between climate variabilities and terrestrial ecosystems. He is particularly interested in atmospheric teleconnection impacts on the terrestrial carbon cycle, terrestrial processes-induced climate change, carbon-climate feedback and large-scale fire activity across the globe.

Speaker



Dr. KIM Jin-Soo

Assistant Professor
City University of Hong Kong



24 August, 2022
Wednesday



04:30 Pm



**Civil Engineering
Conference Room
3574 (Lift 27/28)**

Enquiry:

Ms. Rebecca Yau
cerebeca@ust.hk