

# CGD SEMINAR



DATE: Tuesday, 16 April 2019

TIME: 11 am – 12 pm

LOCATION: NCAR, 1850 Table Mesa Drive  
Mesa Lab, Main Seminar Room

TITLE: Toward modular in situ visualization in Earth  
System models: the regional modeling system  
RegESM 1.1 and its applications

SPEAKER: Ufuk Turuncoglu, NCAR

## ABSTRACT:

This study aims to present a novel application of the recently developed state-of-the-art modeling framework to integrate in situ visualization and a data analysis approach with a model coupling framework. The modeling framework utilizes ParaView/Catalyst to gain more insight about the vast amount of data through in situ visualizations, enabling analysis of fast-moving processes and their evolution in both time and space to support better understanding of underlying physical mechanisms. Along with the detail of the designed modeling system, a set of use case application such as investigating evolution of Hurricane Katrina and the sensitivity of the wind-driven coastal upwelling system in Aegean Sea to the changes in Etesian wind forcing will be demonstrated.

Live webcast: <http://ucarconnect.ucar.edu/live>

For more information, contact Tracy Baker, [tbaker@ucar.edu](mailto:tbaker@ucar.edu) 303.497.1366