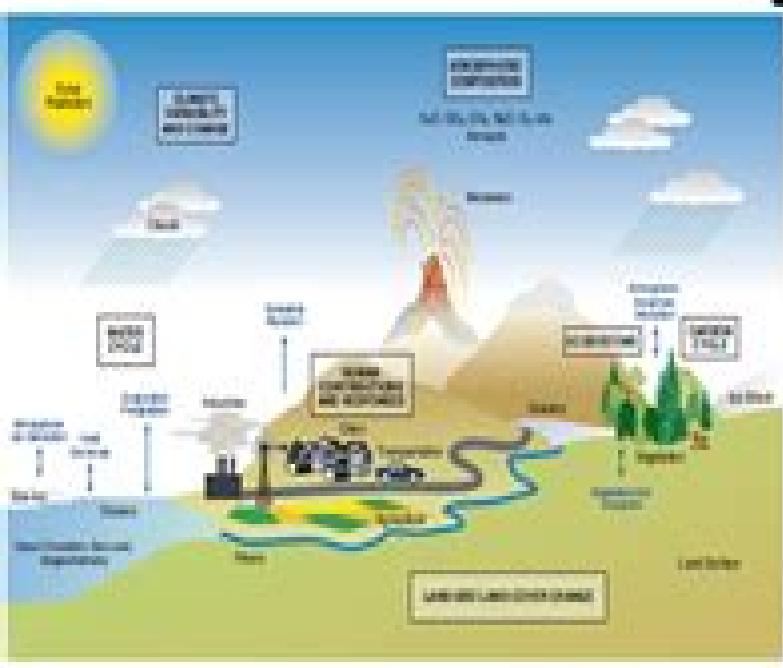
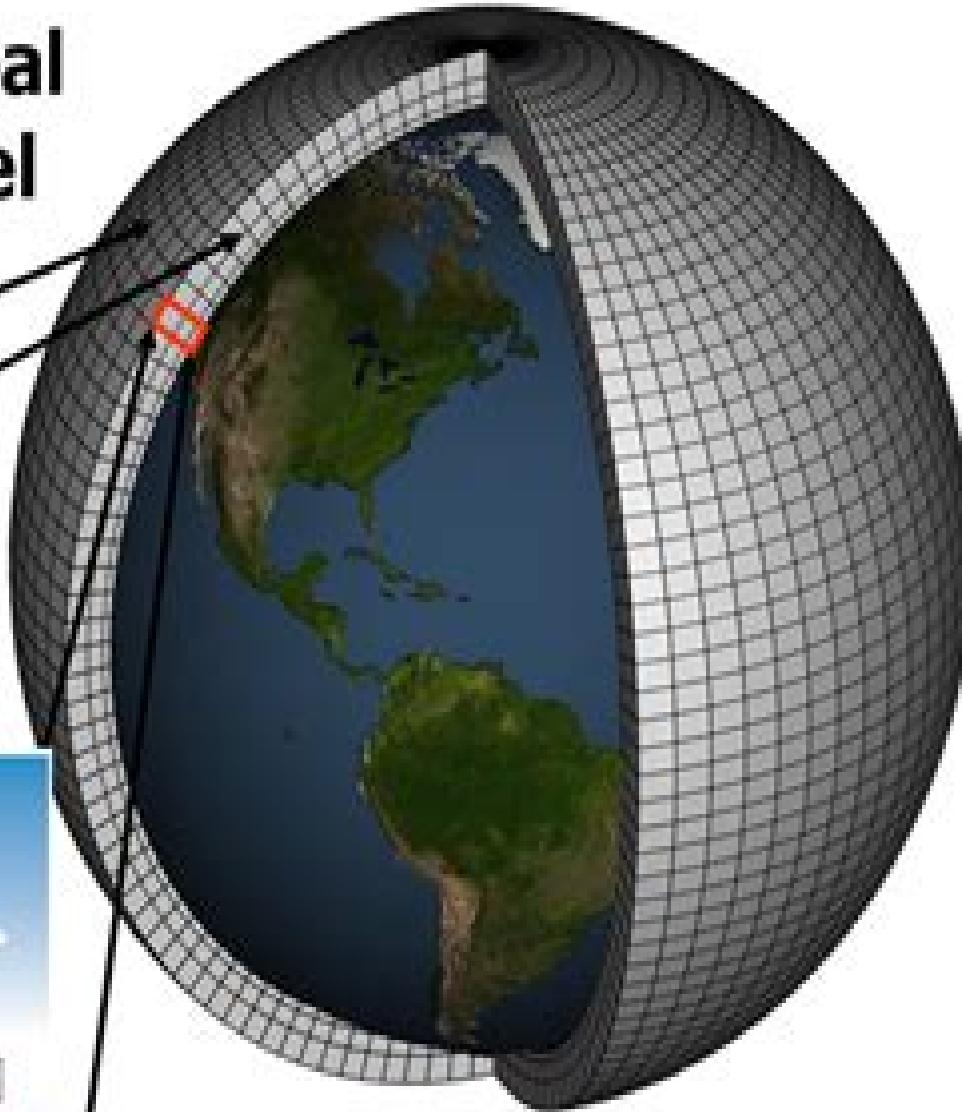


Schematic for Global Atmospheric Model

Horizontal Grid (Latitude-Longitude)

Vertical Grid (Height or Pressure)



Numerical Modeling Of The Global Atmosphere In The Climate System

**Tianjun Zhou, Yongqiang Yu, Yimin
Liu, Bin Wang**

Numerical Modeling Of The Global Atmosphere In The Climate System:

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and interactions with biological and human systems Includes new topics on anthropogenic climate change high resolution numerical modeling new observational technologies and planetary atmospheres Bulletin of the American Meteorological Society American Meteorological Society,2001 List of members in v 1 8 **Modeling Early Paleogene Climate** Matthew Huber,2001 Fast Processes in Large-Scale Atmospheric Models Yangang Liu,Pavlos Kollias,2023-12-11 Improving weather and climate prediction with better representation of fast processes in atmospheric models Many atmospheric processes that influence Earth's weather and climate occur at spatiotemporal scales that are too small to be resolved in large scale models They must be parameterized which means approximately representing them by variables that can be resolved by model grids Fast Processes in Large Scale Atmospheric Models Progress Challenges and Opportunities explores ways to better investigate and represent multiple parameterized processes in models and thus improve their ability to make accurate climate and weather predictions Volume highlights include Historical development of the parameterization of fast processes in numerical models Different types of major sub grid processes and their parameterizations Efforts to unify the treatment of individual processes and their interactions Top down versus bottom up approaches across multiple scales Measurement techniques observational studies and frameworks for model evaluation Emerging challenges new opportunities and future research directions The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

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