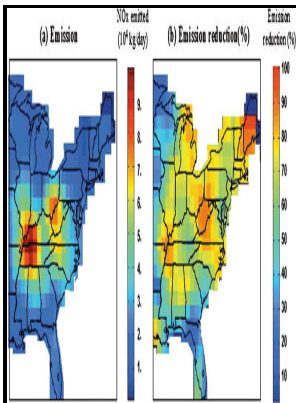


Sub-synoptic scale influences on air quality in the southwestern United States of America.

University of East Anglia - The influence of synoptic scale meteorology on transport of urban air to remote locations in the SouthWestern United States Of America



Description: -

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Geophysical Fluid Dynamics Laboratory

Specifically, over the eastern Indian Ocean and South China Sea, enhanced subsidence during El Niño reduces cloud cover and increases the solar radiation absorbed by the ocean, thereby leading to enhanced SSTs. The characteristic circulations at sea level associated with various storm track modes are examined using composite charts of the sea level pressure field.

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Similar plots are constructed to elucidate the vertical phase structure in the middle and lower troposphere at individual grid points, as well as the propagation characteristics of the sea level pressure field in the vicinity of sloping terrain.

The influence of synoptic scale meteorology on transport of urban air to remote locations in the SouthWestern United States Of America

Two 15-year atmospheric GCM integrations are conducted with the lower boundary over the tropical Pacific being forced by observed month-to-month sea surface temperature SST changes during the period 1962-76.

Streszczenia konferencji: „United States. Army Air Forces. College Training Detachment (Air Crew), 58th”

All of these features appear with reversed polarity in latitudes equatorward of phi.

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Journal of the Atmospheric Sciences, 43 22 , 2719-2735. A parallel analysis using output from an experiment with a GFDL-coupled GCM shows that the above sequence of circulation changes is well simulated in that model. Periods of enhanced synoptic activity in the tropical western Pacific,

Bay of Bengal-northeastern India, and African-Atlantic regions are identified by extended empirical orthogonal function analysis.

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