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

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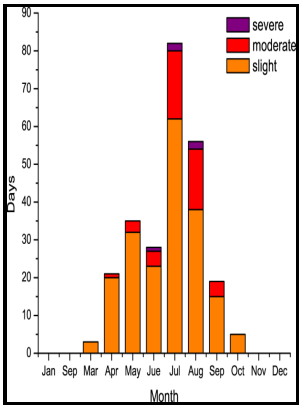

Description: -
-Sub-synoptic scale influences on air quality in the southwestern United States of America.
-Sub-synoptic scale influences on air quality in the southwestern United States of America.
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Near sea level, the geopotential tendencies induced by heat and vorticity fluxes reinforce each other and are comparable in amplitude. The distributions of eddy-induced geopotential tendency for individual storm track modes indicate a near inphase relationship between the synoptic scale barotropic forcing and the quasi-stationary flow pattern at 300 mb. The internally generated variability in structure function amplitude in the coupled model integration is used to assess the importance of the upward trend in the amplitude of the observed structure function over the last 25 years.

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The latter fields serve as the basis for describing the synoptic-scale eddy forcing associated with the leading modes of month-to-month variability of the storm tracks over the North Pacific and North Atlantic. The anomalous atmospheric circulation on the equatorward flank of this feature contributes to the initiation of IOP-like events when the ENSO forcing is weak.

Geophysical Fluid Dynamics Laboratory

Journal of Climate, 25 14 , DOI:. During El Niño events, the atmospheric response to remote TPAC forcing tends to suppress or postpone monsoon development over South Asia. During the northern summer, the 25-40 day oscillations coincide with the occurrence of northward moving, zonally elongated rainbands over the monsoon region of South Asia.

Meteorologically adjusted urban air quality trends in the Southwestern United States

During El Niño the associated curl contributes to a pair of pronounced minima in thermocline depth, symmetrically about the equator in the west, near 8°N and 8°S. The principal difference between the models, namely the prominence of oceanic Kelvin waves in one but not the other, causes the two models to differ significantly in the way El Niño episodes evolve, and in the mechanisms that cause a turnabout from El Niño to La Niña

and vice versa. Particular attention is devoted to the implications of downstream eddy developments on the relationship between ENSO and the atmospheric circulation over the North Atlantic.

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

This eastward propagating mode could be the deciding factor for the observed nocturnal rainfall peak over the Great Plains.

Meteorologically adjusted urban air quality trends in the Southwestern United States

The transient behavior throughout the tropics is also investigated using Extended Empirical Orthogonal Function EEOF techniques. The eddy-induced secondary circulation plays a minor role in these tendencies. The flux divergence associated with large-scale vertical transports appears to be insignificant.

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