

What is the kinetic energy of a Somali jet?

The Somali jet possesses high kinetic energy (KE), per unit mass, with values sometimes exceeding $300 \text{ m}^2 \text{ s}^{-2}$ (Krishnamurti and Ramanathan 1982). This highly energetic jet transports moisture from the ocean, driving convection and leading to high monsoon rainfall (Saha 1970).

What causes asymmetry between onset and decay of Somali jet kinetic energy?

Such a relationship can also explain the asymmetry between onset and decay of the Somali jet kinetic energy: it is simply a consequence of the asymmetry present in the seasonal evolution of the meridional geopotential gradient (Fig. 13).

Why is the Somali jet important in the South Asian monsoon?

Significance Statement The Somali jet is an important feature of the South Asian monsoon, contributing significantly to enhanced rainfall over the region. We study the dynamics of this jet by focusing on its kinetic energy (KE). Maintenance of the jet at different regions corresponds to different kinds of balances in the kinetic energy budget.

Why does the Somali jet intensify so fast?

The rapid intensification of the jet can be explained as a nonlinear response of KE generation to the seasonal evolution of the north-south pressure gradient. These findings contribute to understanding of the jet and its nonlinear evolution, which is important for accurate representation and simulation of the Somali jet in climate models.

What is a Somali jet?

The jet begins as a cross-equatorial flow and eventually turns eastward at around 10°N , off the East African coast, becoming near zonal (Findlater 1969; Joseph and Raman 1966). This low-level southwesterly jet is commonly referred to as the Somali jet.

Where is the core of the Somali jet located?

The core of the Somali jet is located close to 10°N and at 900 hPa. KE is in $\text{m}^2 \text{ s}^{-2}$ and KE generation is in $\text{m}^2 \text{ s}^{-3}$. In this section, we analyze the KE budget at 900 hPa, making use of Eq. (4). This level was chosen because KE is maximum at this level (Fig. 2).

This study analyzes the kinetic energy (KE) budget of Somali jet region using high-spatiotemporal-resolution reanalysis (ERA5) to explain these key features. The KE budget reveals that in the ...

This study is motivated by a basic question: How exactly is the kinetic energy (KE) in the South Asian monsoonal cross-equatorial flows and Somali Jet generated? While the mechanism of KE generation for midlatitude ...

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Abstract: Based on the daily NCEP/NCAR reanalysis dataset from 1980 to 1997, the zonal propagation of 850 hPa kinetic energy (K) and meridional wind (v) at the equatorial region averaged at (0°;-5°;N) are examined respectively. Results show that the strongest center of K in the tropical Asian summer monsoon region locates over 75°;-90°;E, with the secondary over ...

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The onset of the South Asian summer monsoon is characterized by low-level cross-equatorial flow in the western Indian ocean. This flow turns eastward and becomes a zonally oriented jet off the East African coast at around 10 ° N, which is called the Somali Jet. The Somali jet is an important factor in the monsoon onset over the Indian region and transports moisture from the Arabian ...

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The Somali jet possesses high kinetic energy (KE), per unit mass, with values some-times exceeding 300 m²s² (Krishnamurti and Ramanathan 1982). This highly energetic jet transports moisture from the ocean, driving convection and leading to high monsoon rain-fall (Saha 1970). The presence of the jet is an important factor



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The low-level Somali jet is the primary mechanism of moisture transport for the South Asian monsoon. It precedes monsoon onset over India and shares its key characteristic features such as rapid intensification and slower retreat during seasonal evolution. This study analyzes the kinetic energy (KE) budget of Somali jet region using high-spatiotemporal-resolution reanalysis ...

Kinetic energy generation in cross-equatorial flow and the Somali Jet Seshadri, Ashwin K.; Dixit, Vishal Vijay; Abstract. Publication: ESS Open Archive eprints. Pub Date: February 2022 DOI: 10.1002/essoar.10510557.1 Bibcode: 2022essoar.10510557S ...

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Here, we present a seasonal-mean analysis of the kinetic energy (KE) budget of the low-level flow using high spatiotemporal resolution ERA5 reanalysis to identify sources and sinks of KE. We find that the largest KE generation occurs around East African orography where the Somali Jet forms while significant KE is also generated over the ...

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