

STATISZTIKUS FIZIKAI SZEMINÁRIUMOK

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Mátyás Herein

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A new method for ENSO teleconnection analysis

Probably the most important teleconnection phenomenon is the El Niño-Southern Oscillation (ENSO), which is a naturally occurring fluctuation that originates in the tropical Pacific region and affects ecosystems, agriculture, freshwater supplies, hurricanes and other severe weather events worldwide. The most crucial and open question that has challenged scientists for decades is how the ENSO will change due to a changing climate. With the help of the snapshot method and using the data of the state of the art climate model, the Community Earth System Model (CESM) we can first investigate the dynamics of the ENSO in a mathematically totally supported way. The new results could shed more light on such hot topics like the teleconnection between the ENSO and the Indian monsoon.

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