

World Conference on

Climate Change

October 24-26, 2016 Valencia, Spain

On the relationship between Intertropical Convergence Zone ITCZ variability over Indian Ocean and hurricane Chapala

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Aim: The present paper investigates the relationship between the Intertropical Convergence Zone ITCZ variability over the Indian Ocean and hurricane Chapala.

Methods: The daily data of meteorological parameters and satellite images for hurricane Chapala through the period 28 October-3 November 2015 has been used and analyzed. The daily NCEP/NCAR reanalysis data composites for the meteorological elements over the Indian Ocean is used. The variability of the ITCZ over the Indian Ocean through the period of hurricane Chapala has analyzed.

Results: The results revealed that through the period of study (28 October-3 November 2015) the ITCZ is splitting over India. Moreover, there is abnormal northward shift of the ITCZ over the Indian Ocean, mainly on the southwestern part of India.

Conclusion: The splitting of the ITCZ over India and the northward shift of ITCZ cloud clusters over the southwest of India causing the development of hurricane Chapala.

Biography

Yehia Hafez has completed his PhD from Cairo University. He is the Staff Member in Meteorology Department at Cairo University and King Abdulaziz University. He has published more than 30 papers in reputed journals and has been serving as an Editorial Board Member of repute.

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