

Influence of El Nino and La Nina on Tropical cyclones over the South China Sea.

The present paper investigates the influence of El Nino and La Nina event year in the South China Sea (SCS) on tropical cyclones (TCs) activity moving on to Thailand. Base on the storm tracking for a period of 69 years (1951–2019) from the Thai Meteorological Department (TMD) was applied to analyze. The results show that during this period the number of 27 El Nino event year and 22 La Nina event year, the intention of the tropical cyclones are a stronger and frequent occurrence during La Nina event year (16 TS and 3 TY) more than El Nino event year (12 TS and 2 TY) which nearly matches of total the tropical cyclones in each event year (33 TCs for El Nino and 34 TCs for La Nina). Furthermore, analysis using the genesis location of tropical cyclones indicates that the tropical cyclones are significantly influenced in La Nina event year seems to be related mostly located in the central of the South China Sea (111° – 117° E, 7° – 18° N) and location more nearly to Thailand than El Nino event year, different from tropical cyclones in El Nino event year it's scattered throughout this area.

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