Abstract Details

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Corresponding Author : Prof. Chih-Pei Chang (cpchang@nps.navy.mil) Organization: Naval Postgraduate School Category: Ocean and Atmospheres Paper ID: 57-00A-A289 Title: Seasonal March of Monsoon in Southeast Asia and Maritime Continer Abstract: This work uses station and satellite data to study the local variations annual cycle over the Maritime Continent. The annual cycle is domina largely by interactions between the complex terrain and a simple ann reversal of the surface monsoonal winds. The semiannual cycle is comparable in magnitude over parts of the equatorial landmasses, bu very small region reflects the twice-yearly crossing of the sun. The bc summer and winter monsoon rainfall regimes intertwine across the ec with the winter regime extends far northward along the eastern flank major island groups and landmasses. A hypothesis is presented to ex the asymmetric seasonal march in which the maximum convection fo gradual southeastward progression path from the Asian summer mon the Asian winter monsoon but a sudden transition in the reverse. The hypothesis is based on the redistribution of mass between land and o areas during spring and fall that results from different land-ocean the memories. This mass redistribution between the two transition season produces sea- level patterns leading to asymmetric wind-terrain inter throughout the region, and a low- level divergence asymmetry in the that promote the southward march of maximum convection during bc but opposes the northward march during boreal spring.

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