

華南和南海熱帶氣旋活動的變化

**Variations of tropical cyclone activity in South China and the South China Sea**

陳仲良 葛崇正

Johnny Chan and Andy Goh

香港城市大學佳達亞太氣候研究中心

Guy Carpenter Asia-Pacific Climate Impact Centre, City University of Hong Kong

**摘要**

**Abstract**

This paper presents results from a study on the interannual and interdecadal variations in tropical cyclone (TC) activity in South China and the South China Sea during the period 1965 to 2005. Interannual variations are found to correlate quite well with the phase of the El Niño/Southern Oscillation (ENSO), with less in El Niño events but more during La Niña (LN) events for those TCs entering from east of the Philippines. However, for TCs formed inside the SCS, the difference in numbers between the two phases of ENSO is not obvious. In addition, the positive phase of the Pacific Decadal Oscillation (PDO) generally favours less TCs in all categories, while the negative PDO phase favours more. These results may be explained by the fact that the ENSO and the PDO affect TC behaviour through altering the conditions in the WNP to be favourable or unfavourable for TC genesis and movement into the SCS.