**2014−15 與2015−16聖嬰事件對東亞地區降水特性之影響**

**Impact of 2014−15 and 2015−16 El Niño Events on the Interannual Variations of the East Asian Precipitation Characteristics**

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**計畫內容** (**Project description**)

本研究將利用TRMM/GPM、GPCP等衛星觀測降水資料，分析2014−15與2015−16聖嬰事件期間東亞地區之降水量與降水特性之年際變化；同時配合ERA-Interim、CFSR等再分析資料，檢視該區域之水氣與濕靜能收支，以探討聖嬰事件影響東亞降水特性之物理機制。本研究之分析將與過去針對2002−03、2004−05、2006−07、與2009−10等事件之研究成果比較、探討。

Using satellite-based rainfall measurement such as TRM/GPM and GPCP, we would target 2014−15 and 2015−16 El Niño to study its possible impact on the East Asian precipitation pattern and characteristics. Moisture and moist static energy budget will be analyzed based on ERA-Interim and CFSR reanalysis data to understand the underlying physical mechanisms of the influence. With new versions of these data sets, some aspects of 2002−03, 2004−05, 2006−07, and 2009−10 El Niño events will also be re-examined to compare with previous results.

**甄選條件** (**Preferred background**)

* 大三/大四具備良好英文能力之在學學生
* 具備良好之電腦操作能力 (熟悉Linux/*UNIX*作業系統)
* 具備良好程式設計者尤佳
* 熟悉NCL或MATLAB者尤佳
* Senior or junior college students with good English skills
* Strong knowledge/experience in computers (Linux/*UNIX* system) is essential
* Good programming skills would be a plus
* familiarity with NCL or MATLAB would be a plus