

季內震盪對梅雨的影響

Impact of Intraseasonal Oscillations on Meiyu

Understanding the mechanisms and variations of the Meiyu, a.k.a. the active phase of the East Asian summer monsoon (EASM), is key to weather forecasting in East Asian countries. Among all timescales of Meiyu variabilities, the intraseasonal oscillation (ISO) is central to the subseasonal-to-seasonal (S2S) prediction, *i.e.* forecasting for the time range between 2 weeks and 2 months. ISO can be divided into MJO and quasi-biweekly (QBWO) mode, which can be extracted by applying Fourier Transform or Empirical Orthogonal Function (EOF) to observed variables. The project intends to investigate the impact of ISO on Meiyu rainfall by sensitivity experiments.

Preferred background

- Strong knowledge/experience in computers (Linux/*UNIX* system) is essential
- Good programming skills (especially Fortran) would be a plus
- familiarity with NCL, GrADS, Python, or MATLAB would be a plus
- Senior or junior college students with good English skills