



Impacts of The Intraseasonal Oscillations on the Submonthly Wave Patterns over the Western North Pacific

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The intraseasonal oscillation (ISO) has been known to have some impact on the 5-16-day wave patterns. In this study, the 5-16 day cases were separated into ISO westerly and easterly phases. After applying the compositing techniques, the results showed that the wave patterns in the westerly phases were better organized and situated in a more intense monsoon trough than in the easterly phase. Tropical cyclones (TCs) occurred over the cyclonic systems of the wave patterns where the minimal vertical shear axes were co-located. More TCs formed in the westerly phases near the areas where the maximal moisture convergence was located. Therefore, the ISO modulating effect could influence the wave activity in the western North Pacific summer.