## **Abstract Details**

## <u>AOGS 1st Annual Meeting</u> > <u>Ocean and Atmospheres</u> > Interaction between East-Asian Mo the ENSO >

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Corresponding Author : Prof. CHONGYIN LI (Icy@lasg.iap.ac.cn) Organization: Institute of Atmospheric Physics, Category: Ocean and Atmospheres Paper ID: 57-00A-A338 Title: Interaction between East-Asian Monsoon and the ENSO Abstract: (OA12) The ENSO as a strongest signal of interannual climate variati been paid maximum attention and its occurrence usually cause to pro climate anomalies and disasters (the flood and drought) within great in the world. Some influences of the ENSO on East-Asian monsoon, anomaly of typhoon activity and the summer rainfall anomaly. But max will re-investigate the mechanism of ENSO occurrence. By using data analyses and numerical simulations, it is shown that the precedence of is in the subsurface of equatorial western Pacific warm nool and the

analyses and numerical simulations, it is shown that the precedence ( is in the subsurface of equatorial western Pacific warm pool and the occurrence of ENSO (El Nino-La Nina) is directly related to the subsur ocean temperature anomalies (SOTA) in the equatorial western Pacific eastward propagation. Particularly the SOTA showed an interannual c very clearly, corresponding to occurrence of the El Nino (La Nina) eve eastward propagation of positive (negative) SOTA along the equator a associated to the westward propagation of negative (positive) SOTA a 10oN and 10oS latitudes. The analyses still show that the cycle of SO the tropical Pacific is driven by zonal wind anomalies over the equator western Pacific, which is mainly caused by anomalous East-Asian wint monsoon. The latter is consistent with the previous result about that Nino (La Nina) is closely related to anomalous strong (weak) East-Asi winter monsoon. Therefore summarily, it can be suggested that ENSC exactly the cycle of subsurface ocean temperature anomalies in the tr Pacific driven by zonal wind anomalies over the equatorial western Pa which mainly results from anomalous East-Asian winter monsoon.

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