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## **Abstract Details**

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**Title:** Study on Interdecadal Variability at the North Pacific

Abstract:

Large-scale variation over the North Pacific many influence on the Pa Ocean. A recent study by Frauenfeld and Davis (2002) suggested tha variability of atmospheric circulation in the Eurasia might be the source the decadal PDO-like variability in the extratropical Pacific Oscillation has been distinguished from the El Nino-Southern Oscillation (ENSO). study it is attempted to explain variability in the PO with a newly defi index, Wind Anomaly Index (WAI), which has been introduced to con: interaction between the atmospheric circulation and sea surface temp (SST) anomalies. The interdecadal (10~20 years) and interannual val (3~5 years) of WAI are clearly shown in Figure 1. These modes are s Pacific Decadal Oscillation Index (PDOI) and Southern Oscillation Inde (SOI). And each level of WAI mode is consistent with different indices SOI et al). In another wavelet analysis large-scale variations (10~20) are representing SOI, WAI (at 200hPa) and PDOI in that order. We ca that tropical SST variability was transfer to atmospheric variability an variability was transfer to North Pacific SST. Then atmospheric vertica variability was transfer from bottom to top directly. Finally WAI might useful because it can represent the atmospheric circulation condition simple index number and this WAI can be easily compared to other in such as the SOI, PDOI, and the Arctic Oscillation Index (AOI).

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