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Validation of Gridded Surface Wind Products Using Spa Sensors and their Application to Air-Sea Interaction in th Extension Region

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Abstract

We have constructed gridded high resolution global surface wind pr scatterometer Qscat/ SeaWinds (QSW) and radiometer Aqua/AM of the two products in the North Pacific reveal significant difference are weaker than the QSW winds with a maximum difference of 0.5 western portion of the westerly region during the winter season. Th validated by comparing them with moored buoy measurements ; the Observatory (KEO) buoy in the Kuroshio Extension (KE) and the ' and Ocean (TAO) buoys in the tropical Pacific regions. Compariso little differences between satellite-derived and in-situ wind speeds, ' has a smaller root-mean-square difference (RMSD) from and a high situ wind speeds, indicating higher reliability. Spatial correlations be speed and sea surface temperature (SST) anomaly fields by TRMN (TMI) reveal a significant positive correlation between wind-speed a KE region, suggesting an ocean-atmosphere interaction that may ha oceanic conditions, such as the existence of warm eddies.

Keywords: <u>Surface Wind</u>, <u>Gridded product</u>, <u>Validation</u>, <u>Buoy mea</u> <u>Scatterometer</u>

[PDF (523K)] [References]

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