

The Temporal and Spatial Variation of Orographic Wind Jets West of Luzon Island in Winter

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With 10 years QuikScat Wind Field and several SAR images, the temporal and spatial variation of orographic wind jets west of Luzon Island in winter are analyzed. This study further evaluates the effects of wind temporal and spatial resolutions of wind fields on mesoscale eddies and sea surface temperature. This study suggests that the orographic wind jets are critical in driving mesoscale eddies and fronts in eastern South China Sea in winter.