

Methods to Estimate Spatial Distribution of the Local Meteorological Conditions

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In order to estimate meteorological conditions on the time-scale and spatial-scale enough to prevent the meteorological disasters of the railroad by interpolating data observed by anemometers or rain gauges and, we estimated meteorological conditions by using numerical simulations. We compared the results of the numerical simulation to the observed data in the case of strong wind, heavy rainfall, and heavy snowfall. As a result, although there were cases where meteorological conditions were underestimated by numerical simulations, but it was possible to reproduce a meteorological phenomenon qualitatively.