

**Evaluation of Influence of Anemometer Position around Railway Structures on  
Observation Data of Wind**

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Anemometers for operation control are mostly installed close to the railway structures. Therefore, the railway structures might influence wind velocity data measured with the anemometer. The authors investigated the influence of the anemometer position around typical railway structures on the wind velocity by the wind-tunnel test and the field observation of wind. In the case of single track embankment with the height of 6.5m from the ground surface, the wind velocities on the leeward side increase more than those on the windward side of the railway structures, at the level up to 4m above the rail level, as the wind direction approaches to 90 degrees to the longitudinal direction of the railway structure.