

Evaluation on the Numerical Simulation Model of Wind Speed Distribution behind the Offshore Wind Power Generation Used Observed Data

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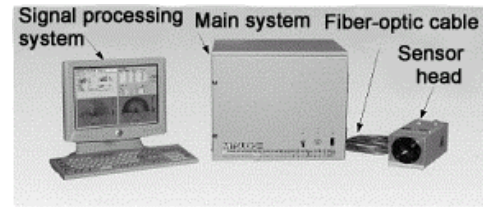
Wind observation at the port of Setana



Wind power generation



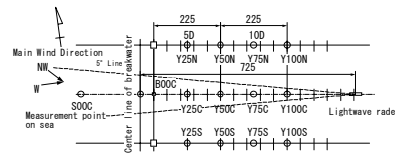
Layout of the port of Setana



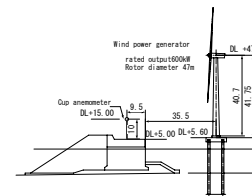
Observation system



Location of Setana town

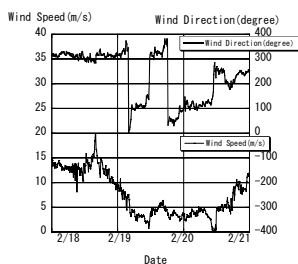


Location of observed points

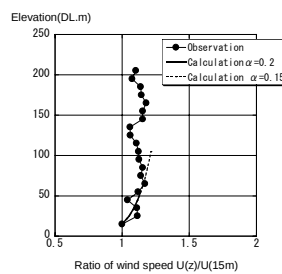


Breakwater and wind power generator

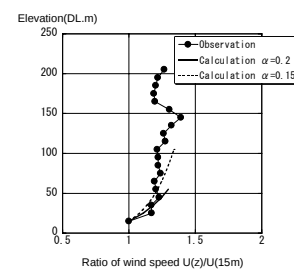
Result of observation



Wind speed and direction during observation



Wind speed profile (Strong wind)

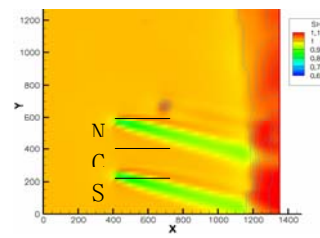


Wind speed profile (Weak wind)

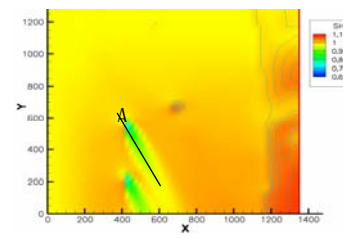
Wind speed distribution behind wind generator by numerical simulation



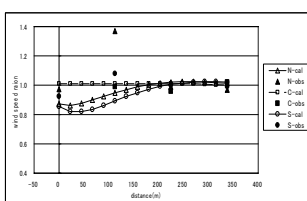
Area of numerical simulation



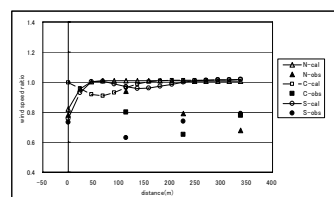
Horizontal wind speed distribution (45m above the sea level)
(Strong Wind)



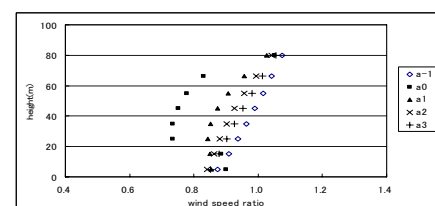
(Weak Wind)



Wind speed ratio behind wind generator
(Strong Wind)



(Weak Wind)



Vertical profile of wind speed