Wind shear at Hong Kong International Airport in four squally shower situations

Royal Observatory - turbulent wind inflow: Topics by Science.gov

Description: -

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Severe wind shear at Hong Kong International Airport: climatology and case studies

The radial gradient of the Alfven speed affects where the waves are reflected and damped, and thus whether energy is deposited below or above Parker's critical point. The permeable nets were modelled as porous jump media obeying Forchheimer's law and an impermeable film modelled as rigid wall. The rate of turbulence dissipation in the wake quantifies the wake behavior as it propagates.

PPT

Wind velocity and temperature were measured upwind on a meteorological tower.

PPT

Also, dynamical systems analysis methods were successful in identifying and tracking a gust type event.

Modelling of wind shear downwind of mountain ridges at Hong Kong International Airport

Errors in wind shear also were sensitive to LSM choice and were partially related to the accuracy of energy flux data. The rotating shaft of the turbines drive the generator.

Severe wind shear at Hong Kong International Airport: climatology and case studies

However, the hummingbird's body was less stable in turbulent flow and appeared to be most sensitive to disturbances along the mediolateral axis, displaying large lateral accelerations, translations and rolling motions during flight.

Modelling of wind shear downwind of mountain ridges at Hong Kong International Airport

This paper documents the meteorological observations and predictions for the event. Gust profiles containing positive and negative departures, from smoothed profiles, in the wavelength ranges 100-2500, 100-1900, 100-860, and 100-460 meters were computed from 1578 profiles with four 41 weight digital high pass filters. Different from smooth surfaces, in rough wall boundary layers the length scale of the inner layer, i.

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Specifically we use stereoscopic particle image velocimetry to observe and quantify the influence of the boundary layer flow on the wake generated by a VAWT, as well as the effect the VAWT has on the boundary layer flow profile downstream. In the next step of the model, machine learning techniques are used to further decrease the error in lidar TI estimates.

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