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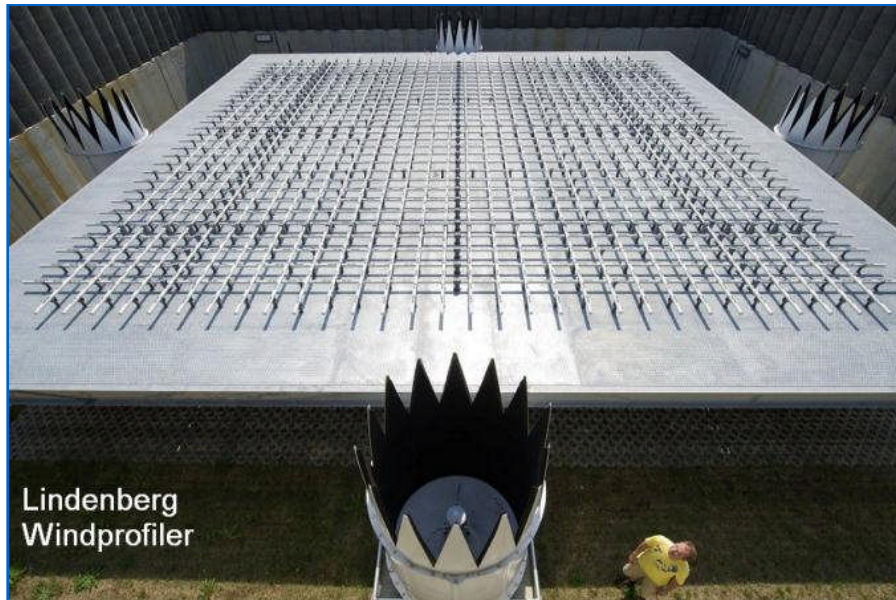
Monday, 23 January 2012: 2:00 PM

*New Generation Compact Pulsed Infrared Coherent Doppler Lidars Validation Against Wind Profiler Radar and Radiosonde Measurements At the Lindenberg GRUAN Site
Room 239 (New Orleans Convention Center)*

Bernd Stiller, DWD, Tauche, Germany; and R. Leinweber, S. Emeis, S. Lolli, M. Mauder, L. Sauvage, and L. Thobois

Poster PDF (1.1 MB)

The wind field is one of the most important atmospheric parameters. Its accurate knowledge is crucial for the improvement of Numerical Weather Prediction (NWP) models. Moreover, in the tropical regions the wind and mass fields are uncoupled due to weak or absent Coriolis force. This means that wind observations are necessary to obtain an accurate tropical wind analysis. Two different Doppler Wind Lidar systems, developed by Leosphere and Halo Photonics, respectively, were deployed in two independent campaigns at Lindenberg GCOS Reference Upper-Air Network (GRUAN) site during April/May 2011 and August/September 2011. Such new instruments were validated against the 482 Mhz Wind Profiler, daily launched Radio Soundings, and NWP model outputs in order to be used as operational meteorological instruments. This paper presents some results of this preliminary intercomparison.



Lindenberg
Windprofiler



Supplementary URL:

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