

Wind turbines located in line of sight of Doppler radars can cause clutter, blockage, and erroneous velocity measurements, affecting the performance of both military- and civilian radar systems.

Wind measurements are currently taken using laser-based LiDAR technology and wind measuring masts. The dual Doppler radar technology developed in the USA offers a new alternative. It is able to ...

NLR researches the design and operation of remote wind measurement, or sensing, technologies such as lidar, sodar, and radar as well as traditional wind measurements using surface ...

The Department of War (DoW), Federal Aviation Administration (FAA), and other federal entities that operate or utilize radars, along with the wind energy and radar industries, have understood for 20 ...

High-resolution measurements from LIDAR show wind flow normal to ridges (e.g., gravity flows) results in higher wind speed nearer to ground than aloft. This illustrates the need for advanced ...

We're using our unique research radar systems to make atmospheric measurements at very high resolutions with the objective of not only helping to advance understanding of the atmosphere, but ...

The Fraunhofer Institute for Wind Energy Systems IWES has put an innovative wind radar system into operation that enables three-dimensional wind field measurements at ...

Renewable Energy Insights: Particularly useful for the renewable energy sector, especially wind farms, to optimize the positioning and output of turbines. Why Use Our Wind Radar? Utilizing our Wind ...

Measurement of a radar signal behind a wind farm - excerpt from an on-board video of the octocopter. The project is expected to provide the technical and scientific basis for a reliable ...

In conclusion, this paper presents a method of employing a 79 GHz FMCW mmWave (millimeter-wave) radar with circularly polarization on the top of the tower to monitor the blade ...

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