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The effect of Turbine motion On a horizontally pointing, wind turbine nacelle mounted lidar, turbine 'nodding' (pitch) can add or subtract from the Doppler horizontal wind signal. The highest velocity motion on a wind turbine originates from the small, low frequency vibration at the resonant frequency of the tower (typically 0.1 – 0.3 Hz).

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Motion Effects On Lidar Wind The effect of Turbine motion On a horizontally pointing, wind turbine nacelle mounted lidar, turbine 'nodding' (pitch) can add or subtract from the Doppler horizontal wind signal. The highest velocity motion on a wind turbine originates from the small, low frequency

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Abstract. Three months of Doppler lidar wind measurements were obtained during the Arctic Cloud Summer Experiment on the icebreaker Oden during the summer of 2014. Such ship-borne Doppler measurements require active stabilisation to remove the effects of ship motion. We demonstrate that the combination of a commercial Doppler lidar with a custom-made motion-stabilisation platform enables the retrieval of wind profiles in the Arctic atmospheric boundary layer during both cruising and ice ...

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A simulation model is described which generates realizations of the LIDAR return from a wind roughened ocean, including both surface specular and subsurface volumetric returns. ... The effects of ...

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The first is to limit the movement of the LiDAR by using stabilisation gyroscopes and a moving cradle, followed by extremely accurate measurement of the movements and travel of the entire assembly through the use of accelerometers that compensate for their effects on wind data measurement using a digital post-processing solution", explains research engineer Sami Barbouchi of the EDF Energy R&D UK Centre.

## Measuring the wind with floating LiDAR technology

backwards by the wind, and also “ nod ” (pitch) at the resonant frequency of the tower structure. In addition, they experience small amounts of “ naying ” (roll). All of these motions have the potential to adversely affect the measurement of the wind vector. In the following sections the effect of motion on remote sensor

## Performance Stability of ZephIR in high motion environments

Motion stabilisation was successful for high wind speeds in open water and the resulting wave conditions. It allows for the retrieval of vertical winds with a random error below 0.2 m s<sup>-1</sup>. The comparison of lidar-measured wind and radio soundings gives a mean bias of 0.3 m s<sup>-1</sup> (2 °) and a mean standard deviation of 1.1 m s<sup>-1</sup> (12 °) for wind speed (wind direction).

## Measurement of wind profiles by motion-stabilised ship ...

Motion compensation study for a floating Doppler wind LiDAR Abstract: This paper addresses a cardanic frame as mechanical-compensation device for a Doppler-wind lidar installed on a floating sea buoy as the “ moving ” lidar. From the methodological point of view, the horizontal wind speed (HWS) measured by both a reference lidar (i.e ...

## Motion compensation study for a floating Doppler wind LiDAR

But the use of LiDAR goes beyond planning of wind farms; it can also protect wind turbines. One problem that wind farms face is storms, which can bring winds so powerful that the turbine is damaged through sheer force. The turbine can also become disengaged, allowing the turbine to spin too fast (which can result in catastrophic failure).

## FLiDAR – How Floating LiDAR Aims to Help the Wind Energy ...

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Results – Wind direction Very small impact of motion on wind direction measured Bias can be explained by offset during setup We observe that the ZephIR lidars shows a 180 ° deviation compared to Wind Cube during many of the tests ZephIR has a 180 ° wind direction unambiguity, which is solved using a local met station on the lider

## Effect of wave motion on wind lidar measurements ...

The wind velocity is obtained with a lidar by measur- ing the Doppler shift caused by the motion of atmo- spheric backscatterers. A schematic of a lidar sys- tem that uses the edge of a spectral filter and a narrow-band laser to measure the Doppler shift is shown in Fig. 1.

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