

comparison of recent wind noise reduction systems for infrasonic research

Large, passive wind noise reduction systems are of great interest to the infrasound community. Recently, several different designs were built and tested in order to quantify their effectiveness in reducing wind noise while maintaining acoustic waveform fidelity in the frequency range of interest to the monitoring community. The designs include large perforated aluminum domes, domes constructed from tents covered with various porous fabrics, and wind fences with various sizes and porosities. This talk will briefly review the basic principles of wind noise reduction, will analyze the performance of each system, and will discuss the advantages and disadvantages of each. Finally, there will be a summary of best-practices in the design and placement of wind noise reduction systems, and suggestions for future work.

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