

## Toward EISCAT\_3D observation of three-dimensional wind velocity in the

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Both of IS and ST radars is the high-power atmosphere radars at the VHF- or UHF- frequencies. In the IS radar measurement, clear-air echoes in the troposphere and stratosphere is able to detect, although most of research are not interested in measurements. This paper introduces the MST radar technique to IS radar measurement for lower atmosphere measurements. The radar imaging technique originally developed for turbulence technique will be helpful for measurement of upper atmosphere measurement also. This paper discusses the feasibility of various MST radar techniques to EISCAT\_3D.

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