



**APPLICATION OF THE UCAR-STARS  
METHOD TO THE MU RADAR DATA:  
THE FIRST RESULTS**

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The UCAR-STARS method was applied to the Middle and Upper Atmosphere (MU) radar data collected in a spaced antenna mode, and the first results of such application are presented and discussed. The horizontal wind speed components and turbulence intensity estimated by STARS are compared with those from the traditional DBS, FCA and Doviak-Holloway methods. Reasonable agreement is shown in most cases. Measurements of temporal and spatial microscales of the diffraction pattern are presented as well. More informative turbulence measurements with STARS and unresolved problems with its application to the MU radar data are outlined.