

# <sup>1</sup> Observability of ionospheric space-time <sup>2</sup> structure with ISR: A simulation study

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3     As with any sensing modality incoherent scatter radar has an inherent un-  
4     certainty in its measurements.

## 1. Introduction

Incoherent scatter radar is an important diagnostic for the ionosphere in that it can give direct measurements of the intrinsic plasma parameters. As with all diagnostic tools it has associated with it sources of errors which include time and spatial ambiguities. One unique aspect of ISR is the fact that to get a measurement of parameters such as temperatures these systems have to estimate a second order statistic of the scattered signal.

This aspect

## 2. Space-Time Errors

## 3. s

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Software used to create figures for this publications can be found at <https://github.com/jswoboda/>. Please contact the corresponding author, John Swoboda at swoboj@bu.edu, with any questions regarding the software along with any requests for the specific data used for the figures.