

# Supporting Information for Extreme low-latitude TEC enhancement and GPS Scintillation at dawn

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## Additional Supporting Information (Files uploaded separately)

1. Captions for Movies S1

### Introduction

This file describes the attached Movie S1, which is an extension of Figure 2 or the main manuscript. Processing steps and organization is described in Section 2 of the main manuscript.

### Movie S1.

The Movie consists of a sequence of scintillation maps computed for 21st December 2015. The cyan solid line in the maps denotes the local sunrise terminator at 350 km altitude. The dashed blue line is a magnetic conjugate location of the sunrise terminator mapped from the southern hemisphere. The scintillation maps include locations and median values of amplitude scintillation index (red dots) recorded within 5 minutes prior

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to the panel's epoch. Location of the red dots was projected to 350 km altitude, the same altitude as the underlying TEC maps in grey scale.