

## Supporting Information for

# “Multi-instrument observations of Meso-Scale enhancement of Sub-Auroral Polarization Stream associated with an injection”

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## Additional Supporting Information (Files uploaded separately)

1. Captions for Movies S1 to S2

### Introduction

#### Movie S1.

Maps of the SuperDARN line of sight (los) velocity in the dusk side with ground-based magnetometers, footprints of VAP and GOES. Color represents the velocity relative to the radar. Blue means flows are towards the radar and red means flows are away from the radar.

#### Movie S2.

The differentiation of the aurora images at SASK.