

Simultaneous pulsating aurora and microburst observations with ground-based fast auroral imagers and CubeSat FIREBIRD-II

Miki Kawamura¹, Takeshi Sakanoi¹, Mizuki Fukizawa¹,
Yoshizumi Miyoshi², Keisuke Hosokawa³, Fuminori Tsuchiya¹, Yuto Katoh¹,
Yasunobu Ogawa⁴, Kazushi Asamura⁵, Shinji Saito⁶,
Harlan Spence⁷, Arlo Johnson⁹, Shin'ichiro Oyama^{2,4,8}, Urban Brändström¹⁰

1 Graduate School of Science, Tohoku University, Sendai, Japan

2 Institute for Space-Earth Environmental Research Nagoya University, Nagoya, Japan

3 The University of Electro-Communications, Chofu, Japan

4 National Institute of Polar Research, Tachikawa, Japan

5 Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency,
Sagamihara, Japan

6 NICT, Japan

7 Physics Department, University of New Hampshire, Durham, New Hampshire 03824,
USA

8 University of Oulu, Pentti Kaiteran katu, Linnanmaa, Oulu, Finland

9 Physics Department, Montana State University, Bozeman, Montana 59717, USA

10 Swedish Institute of Space Physics, Kiruna, Sweden

Contents of this file

Additional Supporting Information (Files uploaded separately)

Captions for Movies S1 to S2

Introduction

- These movies made from the mosaic images taken by EMCCD cameras at Sodankylä (SOD) and Tjautjas (TJA) from 00:28:14 to 00:28:20 UT on October 8, 2018.
- Solid line indicates trajectory of FU4, and red crosses indicates magnetic footprint of FU4.

Movie S1. A movie made from the mosaic images taken by EMCCD camera at SOD

Movie S2. A movie made from the mosaic images taken by EMCCD camera a TJA