

## Pulsating aurora observed simultaneously at conjugate-pair stations and FAST satellite

# Natsuo Sato[1], Yozo Murata[2], Hiroko Doi[3], Mitsuteru Sato[4], Thorsteinn Saemundsson,[5], Darren Wright[6], Steve Milan[6], Mark Lester[6]

[1] NIPR, [2] Department of Polar Sci.,the Graduate Univ. for Advanced Studies, [3] Aeronautics and Astronautics Eng., Tokai Univ, [4] Dept. of Geophysics, Tohoku Univ, [5] University of Iceland, [6] Univ. Leicester

We examined east-west-aligned pulsating aurora with period of  $\sim 5$ sec, which is observed simultaneously at conjugate-pair stations of Syowa and Iceland. The pulsating aurora did not show one-to one correlation for their shape and period at the conjugate observatories. During the pulsation event the FAST satellite passed over Syowa.. Precipitating electron fluxes onboard FAST showed inverted V signature, but did not show one-to-one correlation with optical aurora. These features suggest that precipitating electrons would be modulated at lower altitude than the satellite.