

## Simultaneous measurement of auroral fine-scale structures with ground-based all-sky TV camera and SuperDARN over Iceland

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Simultaneous measurements of auroral fine-scale structures with all-sky TV camera at Tjornes, Iceland (66.20N, 17.12W) and the SuperDARN Iceland East radar (63.77N, 20.54W) were carried out in November 2005. During the campaign, the Stereo Myopic mode (integration time: 1-2s, range resolution: 15km), which is suited for the measurement of field-aligned irregularities (FAIs) in the E-region, ran at the SuperDARN Iceland East radar. Combination of the Stereo Myopic mode operations and the ground-based optical measurements enables us to examine rapid variations of the fine-scale structures in the auroral E-region ionosphere. During the interval between 1800 and 2000 UT on November 22, 2005, quasi-periodic westward motions of N-S aligned auroral bands were observed by the all-sky camera at Tjornes. The SuperDARN Iceland East radar also observed westward drifting features probably associated with the aurora. Spatial relationship between the features in the optical and radio observations will be reported, and spectral characteristics of the E-region FAIs associated with this westward moving bands will be discussed in detail.