

Study of SAPS dynamics observed by the midlatitude SuperDARN radars Study of SAPS dynamics observed by the midlatitude SuperDARN radars

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The SuperDARN Hokkaido (East) radar has been operating for more than 6 years, and has been yielding many new scientific findings. Several of them deal with Sub Auroral Polarization Streams (SAPS), defined as fast westward subauroral ionospheric plasma flow in the dusk to midnight sector. Several studies discussed possible generation mechanism of SAPS structures, although details of their dynamics are not fully understood yet. In this paper, latest results of the study of SAPS dynamics observed by the SuperDARN Hokkaido (East) radar, as well as other midlatitude SuperDARN radars, will be presented.

キーワード: midlatitude SuperDARN, SAPS, sub-auroral ionosphere, inner magnetosphere, disturbed geomagnetic activity

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