Subauroral-zone surprises obtained from the PWING project

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The PWING stands for “study of dynamical variation of Particles and Waves in the INner magnetosphere using Ground-based network observations”. This project is a 5-year project (2016-2020) by the Grant-in-Aid for Specially Promoted Research of the Japan Society for the Promotion of Science (JSPS) (16H06286). This project deploys all-sky imagers, induction magnetometers, VLF receivers, and broad-beam riometers at 8 stations at subauroral latitudes around the north-pole to cover longitudinal variation of aurora and electromagnetic disturbances in the inner magnetosphere. Details of the PWING project can be seen at http://www.isee.nagoya-u.ac.jp/dimr/PWING/PWING_web_e.htm. In this presentation, we review recent new results obtained by the PWING project at subauroral latitudes, particularly at Athabasca (ATH), Canada, (55°N, 247°E, magnetic latitude: 61.7N).

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