

R005-P09

ポスター 3 : 11/6 AM1/AM2 (9:00-12:30)

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Geomagnetic field observed by DFG onboard the SS-520-3 sounding rocket

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Digital-type FluxGate magnetometer (DFG) is installed in the SS-520-3 sounding rocket which is aimed to investigate the cusp region by in-situ observation. DFG includes ASIC-based circuit for an axis in the spin plane and is placed on the top deck of the rocket where is suitable for avoiding the noise from rocket systems itself. On 4th November 2021 at 11:09:25LT, the rocket was successfully launched from the Svalbard Rocket Range (78.55N, 11.51E) of Andoya space center in Norway and it reached to 756km. The AFG successfully operated and observed the geomagnetic field during its flight. We did the onboard calibration with the flight data and derived the attitude of the sounding rocket. Also, we will discuss the field-aligned current observed during its flight.