

Observation of atmospheric gravity waves with lithium release from sounding rocket

FURUTA, yuuki^{1*}, KAKINAMI, Yoshihiro², YAMAMOTO, Masa-yuki³, ABE, Takumi⁴, Habu Hiroto⁴, WATANABE, Shigeto¹

¹Dep. CosmoSciences, Hokkaido Univ., ²Institute of Seismology and Volcanology, Hokkaido Univ, ³Kochi University of Technology, ⁴ISAS/JAXA

As WIND-2 Campaign, S-520-26 sounding rocket was launched from ISAS/Kagoshima Space Center (131.08E, 31.25N) at 05:51 on January 12, 2012. The rocket installed Lithium Ejection System (LES), which releases the lithium atom in the thermosphere. The Lithium cloud was observed from Uchinoura, Sukumo and Muroto to estimate the wind and gravity wave in the thermosphere.