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G04-01 Room:102B Time:May 24 09:30-09:45

Fuji-Sat Project: Development of the simulated micro-satellite and its operation at the summit of Mt. Fuji

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We developed a virtual satellite and then installed it at the summit of Mt. Fuji. A purpose of this project is to make use of a provided observation concept and production technology in the plan of the satellite by working at the summit of Mt. Fuji, and examining a virtual satellite. We investigated a preliminary study in order to check the Fuji mountaintop and similarity of the outer space in 2013. We installed the virtual satellite (Fuji-Sat) at the summit of Mt. Fuji based on those knowledge in the summer in 2014. The Fuji-sat observes an electromagnetic wave strength change and performs the reception of data by the communication with an amateur radio station. The design of protection and the charge function to severe temperature environment is done, and these apparatuses are expected when we can collect electromagnetic wave strength change data for approximately one year in 2015.

Keywords: Small satellite, Virtual satellite, Mt. Fuji

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