

MSD030-01

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Proposal of GPS occultation to the micro-STAR satellite program

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A GPS occultation mission proposal was submitted by the authors to the micro-STAR small satellite program. micro-STAR program is a Asia-Pacific joint program to develop small satellite, for the capacity building in Asia-Pacific countries. GPS occultation has been acknowledged to be most accurate temperature profiling technique. But there has been no Japanese GPS occultation satellite development program. JAXA has already developed high precision GPS receiver easily able to be modified GPS occultation instrument back in middle of 1990s. This new proposal aims to develop new Japanese GPS occultation instrument based upon the next-generation JAXA GPS receiver available in 2012. The micro-STAR program will start FY2010 and the payload selection will be concluded by summer 2010.

Keywords: GPS occultation, micro satellite, Asia Pacific, Indonesia, Temperature profile