

Meteor Wind Radar Application for the study the dynamics of the neutral winds above at Kototabang and Biak station
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Currently for meteor observations is not only done with the naked eye and optical equipment such as a telescope, the latest development to detect natural phenomena meteor shower rained almost every day the Earth can be detected using radar technology. Meteor Wind Radar (MWR) is a radar system used to detect, analyse and display meteor entrance events to the Earth's atmosphere. By using of radar meteors (SKiYMET Meteor Radar) was used to observe the meteor trail (ionized air columns) that moves with the wind neutral layer of mesosphere. When a meteor enters the atmosphere it rapidly vaporises leaving behind a trail of ionised gas along its path of travel, this trail can form a target for a radar transmission. Generally the frequencies used for the detection of radar, located on the VHF band wave spectrum. The results of the analysis of radar data output consists of 7th meteor parameter can be used to study the behavior of neutral winds in the Mesosphere. In this paper the utilization of SKiYMet shown to detect Wind speed Meridional and Zonal Wind speed, Temperature in the Mesosphere and the number and received Flux meteor in the Earth, as a sources of data to better understand the dynamics of the neutral winds at an altitude of 70-110 km region of observation locations. Simultaneously measurement data will be shown at Kototabang observations that have been operating since year 2006 and in Biak Station since year 2011. All of the radar installation is a collaboration between LAPAN and RISH - Kyoto, NICT Japan.

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