

# Japan Geoscience Union Meeting 2011

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U022-P04

Room:Convention Hall

Time:May 22 10:30-13:00

## A plan of experimental flights to observe atmospheric conditions for study of severe weather over Kanto area

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A research project (2010 ? 2014) for development and society experiments of avoidable systems against severe weather disasters around Tokyo metropolitan area is now conducted in cooperation of over twenty organizations (the representative organization: National Research Institute for Earth Science and Disaster Prevention). This project is supported by a grant from the Ministry of Education, Culture, Sports, Science and Technology and consists of three subthemes, which are study of growth mechanism of disturbances with a dense observational network (Subtheme 1), development of disaster prediction system (Subtheme 2) and society experiments (Subtheme3). ENRI participates in Subthemes 1 and 2 and has a plan to observe atmospheric conditions by ENRI's experimental aircraft (Beechcraft 99 Airliner) in Subtheme 1 especially to investigate spatial distribution of water vapor over Kanto area before severe weather occurs in summer. Flight experiments with a cooperation of ground-based measurement systems are coordinated. In this presentation, summary of aircraft equipment and flight plans for metrological observation will be shown.

Keywords: Severe weather, Atmospheric observation, Experimental flight, Water vapor, Spatial distribution