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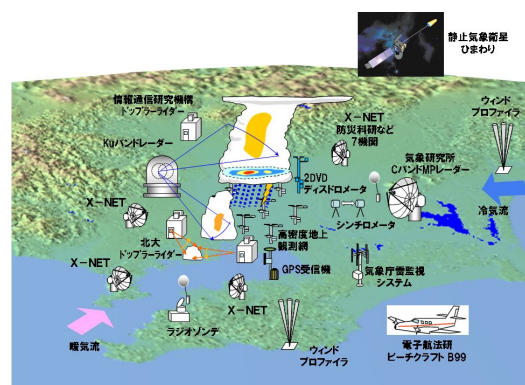
Time:May 22 14:40-15:00

## A field campaign project for study of thunderstorm-induced heavy local rainstorms in the Tokyo Metropolitan Area

Masahito Ishihara<sup>1\*</sup>, Takahisa Kobayashi<sup>1</sup>, Osamu Suzuki<sup>1</sup>

<sup>1</sup>Meteorological Research Institute

A field campaign project will be started from 2011 summer in the Tokyo metropolitan area where 30 million people are living, targeting to reveal the mechanism of initiation and development of thunderstorms evolving in non-organized manner. Thunderstorms occasionally cause heavy local rainstorms in very short period. Urban areas have weakness for such rainstorms due to excess pavement and many buildings. The field experiment consists of an aircraft, a Ku-band very rapid-scan radar, a C-band multiparameter radar, 7X-band radars (X-NET), two Doppler lidars, a 3km-mesh surface meso-net, atmospheric boundary layer measurements, as well as Doppler radar network, two Doppler lidars and GMS rapid-scanning operated by the Japan Meteorological Agency. The field campaign is made as one of three sub-projects under the "Social Experiments on Resilient Cities for Extreme Weather 2010-2014" project funded by The Japan Science and Technology Research Foundation.



Keywords: thunderstorm, dense observation network, urban flooding