J160-P004 Room: Poster Session Hall Time: May 27

## A wing-shaped captive balloon using the lift

# Miki Nakamura[1]; Kosaku Ono[2]; Satoshi Sakai[3]

[1] Human and Environ, Kyoto Univ.; [2] Human and Environ. Kyoto Univ; [3] Human and Environ. , Kyoto Univ

There are few precedent data for a vertical meteorological observation in a city area, so mechanism of city meteorological phenomenal such as heat island aren't clarified absolutely. A captive balloon is mainly used to a few meters from ground in a vertical meteorological observation. A small airship called a kytoon or an advertising balloon, for example. However a captive balloon is affected strongly by wind. So, we developed a new type of a captive balloon. The greatest characteristic of our captive balloon is making a use of wind force for its stability. In fact, our balloon use the lift to fly like a kite does. So, our balloon is wing-shaped. Then, we aim to clarify mechanism of heat island making a vertical observation with it.