A wing-shaped captive baloon using the lift

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http://www.gaia.h.kyoto-u.ac.jp/public_html/

There are few precedent data for a vertical meteorological observation of a city area. So, mechanism of city meteorological phenomena such as heat island aren't clarified bsolutely.

In a vertical meteorological observation as high as an altitude of a few hundred meters from the ground, a captive baloon is mainly used. A small airship called kitoon or an advertising baloon, for example. But a captive bloon is effected strongly by wind. So, we developed a new type of a captive baloon. The greatest charastiristics of our captive baloon is making a use of wind force for its stability. In fact, our bloon use the lift to fly like a kite does.So, our bloon is wing-shaped.

Then, we aim to clarify mechanism of heat island making a vertical observation with it.