

**Automatic weather station research by Japanese Antarctic Research Expedition in
East Droning Maud Land, East Antarctica.**

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Automatic Weather Station (AWS) system has been used in East Droning Maud Land, East Antarctica by Japanese Antarctic Research Expeditions (JARE) since 1980s. In early stage, the AWS units made in Japan were only used. In January 1995, two AWS units using Argos system developed by Prof. Charles Stearns and coworkers of University of Wisconsin, Madison (UW-Madison), have been installed at Dome Fuji (8904) and Relay Station (8918) by cooperative program between JARE and UW-Madison. Since then, the same type of AWS units were installed at Mizuho Station (21359) in October 2000 and JASE2007 (30305) in December 2007. Now, JARE operates two types of AWS units; one is Argos type made by UW-Madison, and the other is data logger type (logger manufacturer: North One co. Ltd., Sapporo Japan). In this talk, we will summarize the problem of data quality collected by AWS and meteorological data by AWS in the Antarctic, and describe a future plan.