

## **Marine ARM GPCI Investigation of Clouds Bridge Display Field Campaign Report**

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September 2016



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# **Marine ARM GPCI Investigation of Clouds Bridge Display Field Campaign Report**

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## Executive Summary

At the beginning of the U.S. Department of Energy (DOE) Marine Atmospheric Radiation Measurement (ARM) Climate Research Facility Global Energy and Water Experiment (GEWEX) Cloud System Study (GCSS) Pacific Cross-Section Intercomparison (GPCI) Investigation of Clouds (MAGIC) experiment, we recognized that the crew on the ship's bridge would like to see a display of the meteorological data that was being collected. While a display on the bridge would be marginally useful to the science, it was decided to make a display for the bridge. A display was programmed in Lab View and a personal computer (PC) was set up in the bridge. This remained in operation until the ship went to dry dock for upgrades and service. Part of the upgrade was a new meteorological system for the ship. After this time there was no need for the ARM display and so it was not re-installed for the remainder of the program.

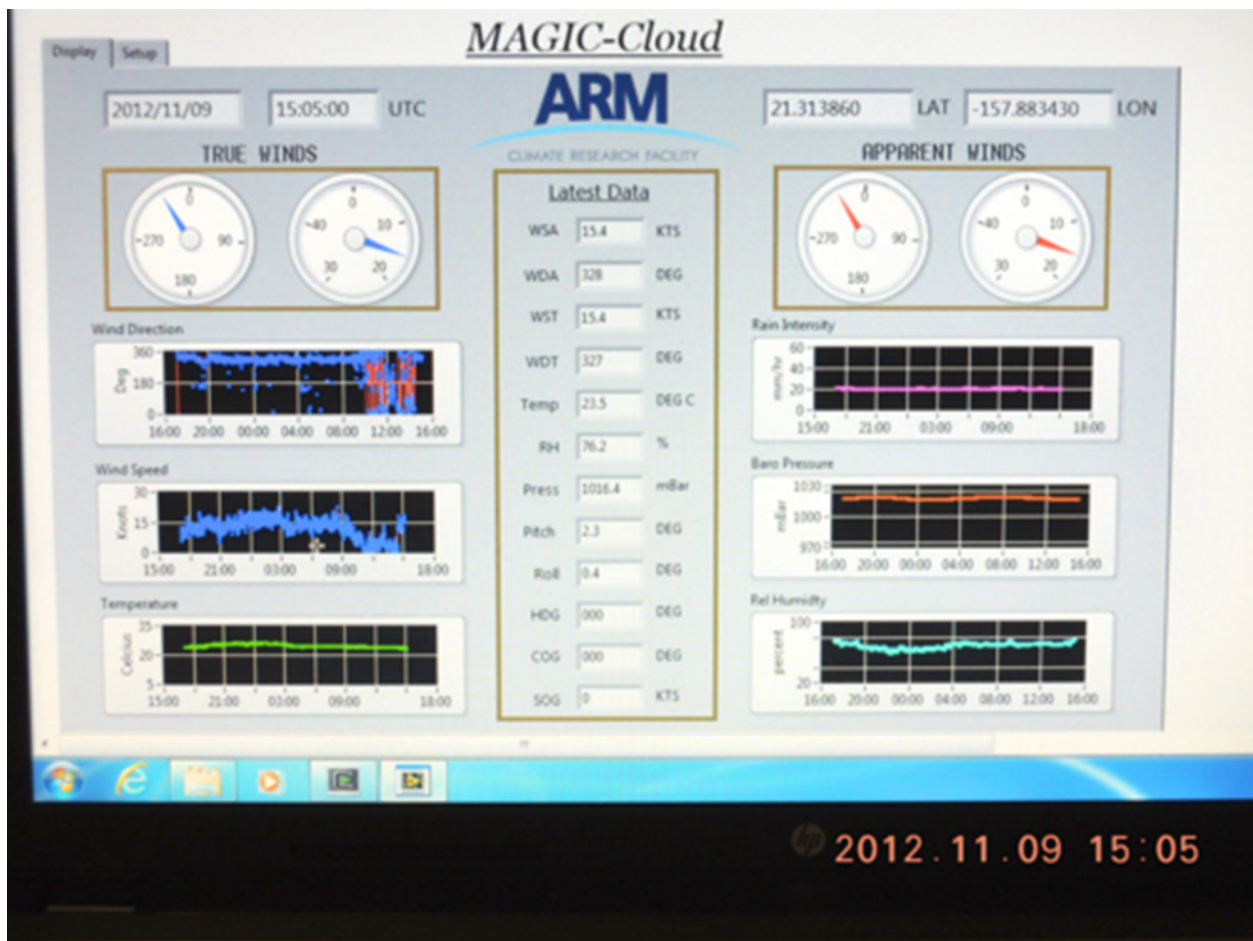


Figure 1. MAGIC ship's bridge display.

## **Acronyms and Abbreviations**

ARM	Atmospheric Radiation Measurement Climate Research Facility
DOE	U.S. Department of Energy
GCSS	GEWEX Cloud System Study
GEWEX	Global Energy and Water Experiment
GPCI	GEWEX Pacific Cross-Section Intercomparison
MAGIC	Marine ARM GPCI Investigation of Clouds
PC	personal computer

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## **1.0 Background**

Bridge Display IOPR 2012-6543

<http://www.arm.gov/campaigns/amf2012bridis>

Co-investigator: Ernie Lewis, Brookhaven National Laboratory

The bridge display was delivered and operated during the MAGIC campaign. As it was a real-time display, no data needs to be archived.

Described in the executive summary.

## **2.0 Public Outreach**

The bridge display was appreciated by the crew on watch and was an appreciated gesture by ARM.

## **3.0 Publications**

None.

## **4.0 References**

None.

