

***IMPROVED SEARCH, DISCOVERY, AND ACCESSIBILITY OF FIELD
CAMPAIGN DATA***

Cialella, A., Lazar, K., Glanville, A., Wagener, R., Cederwall, R., and Bell, J.

For presentation at
The Second Science Team Meeting of the
Atmospheric System Research (ASR) Program,
San Antonio, TX
March 28-April 1, 2011

**Environmental Sciences Department/Atmospheric Sciences Division
Brookhaven National Laboratory**

**U.S. Department of Energy
Office of Science**

ABSTRACT

The Atmospheric Radiation Measurement (ARM) Climate Research Facility receives a wide variety of data from different atmospheric instruments regularly deployed during field campaigns. In order to make the data publicly known and accessible to the world's research community, a description of the data (the metadata) must be entered by knowledgeable ARM personnel into the ARM Field Campaign (FC) Database. ARM metadata includes instrument classes and categories as well as primary measurement types (PMTs) and measurement categories. The ARM website accesses the FC database to populate web pages with information from the campaigns. The Campaigns, Instruments, and Measurements tabs can then be used to identify data of interest via the website. As of June 2010, a significant portion of the field campaign data did not have metadata assignments. The current project addressed this problem by redoubling efforts to assign metadata to past field campaigns, in preparation for the influx of former ASP field campaign data. In the process, a more efficient way of syncing databases was developed. This tool will also lend itself to routine ARM datastream metadata assignments.

NOTICE: This manuscript has been authored by employees of Brookhaven Science Associates, LLC under Contract No. DE-AC02-98CH10886 with the U.S. Department of Energy. The publisher by accepting the manuscript for publication acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this manuscript, or allow others to do so, for United States Government purposes.