

## **ACIS Version 2 Web Development Workshop, August 7-9, 2012**

### **Northeast RCC, Cornell University, Ithaca, NY**

The Regional Climate Center program's Applied Climate Information System (ACIS) is a data access system designed to manage the flow of climate data from collection to distribution for a wide variety of users. Since its introduction in the early 2000s, ACIS has been continually evolving to meet the needs of its users. Among the most recent improvements is the ability to access ACIS data and summarization routines via web services. This feature allows climate service providers to use ACIS as the foundation for developing their own climate products, web sites and decision tools. This summer, ACIS Version 2 will be released. It will include a number of refinements to the existing suite of web services calls.

To facilitate the use of ACIS by the climate services community, the Northeast Regional Climate Center (NRCC) will host an ACIS web development workshop on August 7-9 at Cornell University in Ithaca, NY. The workshop will allow participants to develop their own operational applications based on ACIS, with guidance from RCC staff. Sessions will consist of mainly hands-on product development (as opposed to presentations). Space is limited to 25 participants.

A series of five web tutorials will be released prior to the workshop to familiarize users with the web services capabilities and syntax. These will provide an overview of ACIS Version 2 and in-depth descriptions of ACIS web services features for accessing 1) station meta data, 2) single-station climate products, 3) multi-station products and 4) gridded data products. Users are able to access daily climate data from the GHCN-Daily and several local networks using the current ACIS web services. In Version 2, users will also have the ability to access gridded observed data and climate model projections. ACIS software provides capabilities to summarize these data both temporally and spatially.

An agenda, travel and lodging information, and workshop registration form are available at <http://data.rcc-acis.org>. Registrants will be asked to provide a short description of a climate product they propose to develop during the workshop. Examples of projects appropriate for the workshop might include:

- Analyses to summarize the maximum temperature in several counties for a particular heat wave.
- A web-based map of average rainfall for New England river basins.
- Dynamic web pages that show the projected average temperature for a state for selected future dates and climate models.
- Research software to compute the difference in rainfall reported by COOP and CoCoRaHS stations in NWS County Warning Areas.

Projects that transition existing tools to ACIS web services are also encouraged. The two and a half day workshop will be structured with classroom-style lectures and discussion sessions each morning and coding sessions each afternoon. Questions about the workshop or ACIS web services can be directed to Keith Eggleston, [KLE1@cornell.edu](mailto:KLE1@cornell.edu).