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New Eddy Correlation Systems Installed

New and improved eddy correlation (ECOR) systems are being installed at the SGP CART site. ECOR instrument mentor Mikhail Pekour assembled the systems from commercially available components and added custom computer programming to operate them. The new systems will add measurements of carbon dioxide flux to the usual ECOR measurements, which include fluxes of water vapor, heat, and momentum. Pekour selected modular components that



Figure 1. The new eddy correlation (ECOR) system installed at the SGP central facility. All of the new systems are scheduled to be deployed at the extended facilities by the end of 2003 (ARM photo).

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are more reliable than those of the previous ECOR systems and are also easily upgradable or replaceable. These features will save time and money.

A test ECOR system was installed at the central facility this summer. Preliminary results were very promising, indicating that the new system could operate flawlessly and could withstand power outages. Subsequently, four systems have been installed at Halstead, Towanda, and Tyro, Kansas, and Vici, Oklahoma. The Byron, Oklahoma, ECOR has been relocated to the Halstead site. Data are being collected each hour, but they are not yet available in the ARM data archive. All of the newly deployed instruments are working at expected levels. Deployment of the remaining systems is anticipated by the end of the year.

ARM Program Awards Student Fellowships

The Department of Energy's ARM Program recently awarded its 2003 student fellowships to Amy K. Hawes, a graduate of the University of Colorado, and Steven M. Cavallo, a graduate of Florida State University. The ARM Program provides these fellowships to help qualified students achieve educational goals in the atmospheric sciences and climate studies. Hawes plans to attend Colorado State University to pursue a master's degree in atmospheric science. Her interests are in climate dynamics and climate research. Cavallo will attend the University of Washington to pursue a doctoral degree in meteorology, studying both dynamic and synoptic meteorology.

Billings High School Students Tour SGP Central Facility

A group of freshman, sophomore, and junior Billings High School students toured the SGP central facility on October 2, 2003. The students are studying meteorology under the instruction of teacher Tracy Hilger. Tim Grove served as tour guide for the day, describing the instruments and the overall operations of the research facility to the attentive group.



(ARM photo)