DOW Network In Education Streamlined NSF Request Process





DOWs deploy to universities to support radar meteorology education.

Students design and conduct experiments and analyze DOW data.

Instructors and students are also exposed to in situ instrumentation used in the field.

Projects range in length from one to three weeks.





SCHUSS – University of Utah

During the Storm Chasing Utah Style Study (SCHUSS), one of the mobile DOW trucks was deployed to the Salt Lake Valley to investigate the inner workings of Wasatch snowstorms from October-November 2011. More than a dozen University of Utah graduate students were trained to drive the truck and use the radar dish transmitter and receiver.



interactions with Lake Erie. Complex terrain can produce atmospheric circulations capable of triggering thunderstorms, in addition to influencing already mature thunderstorms and their attendant severe weather. Surface temperature and roughness differences between Lake Erie and the land surface of Pennsylvania routinely affect small-scale weather as well with "lake effect" snow bands being perhaps the most widely known of these lake-induced phenomena.

DROPS-**Purdue University**

Dr. Jeff Trapp, professor in the Dept. of Earth and Atmospheric Sciences at Purdue University, requested one of the CSWR mobile weather research radars for deployment to West Lafayette, Indiana from October 21 through November 18, 2009. Student teams planned research projects related to the occurrence of isolated severe and non-severe thunderstorms, mesoscale convective systems, frontal rain bands and lake-effect snow.





DROPS2 – Purdue University

This 2012 project consisted of a Purdue-area component and a Florida sea-breeze component. These two classes were divided into small teams of students, each responsible for the planning and execution of DROPS2 missions and subsequent data analysis.



UIDOW – U of Illinois

Students utilized the DOW for

classroom instruction, outreach

and research during a 19-day

deployment in spring 2011. The

radar was used to illustrate

concepts taught in class (e.g.,

bright band identification,

reflectivity in snow vs. rain, the

relationship of reflectivity to

CSWR DBZHC - RHI SV CSWR DBZHC - RHI SV



UNDEO - University of Nebraska

The University of Nebraska DOW Education and Outreach (UNDEO) project was an NSFfunded collaboration between the Department of Geosciences at the University of Nebraska-Lincoln and CSWR, conducted in November of 2008. The project allowed a 15-day oncampus deployment of a DOW for classroom instruction and hands-on experience

CSWR routinely participates in local, community-based educational outreach events such as NCAR's "Careers in Science" and "Super Science Saturday" in which members of the general public are able to see the instrumentation first-hand and ask













