

**United States
Department of
Agriculture**

**Natural Resources
Conservation
Service**

**11 Campus Boulevard
Suite 200
Newtown Square, PA 19073**

Subject: SOI – Geophysical Training

Date: 23 February 2004

To: T. Niles Glasgow
State Conservationist
USDA-NRCS
2614 NW 43rd Street
P.O. Box 141510
Gainesville, FL 32614-1510

Purpose:

Training was provided to Eddie Cummings on the RADAN for Windows (version 5.0) software program.

Participants:

Eddie Cummings, Soil Scientist, USDA-NRCS, Gainesville, FL
Jim Doolittle, Research Soil Scientist, USDA-NRCS-NSSC, Newtown Square, PA
Frederic Ducksworth, ITSPEC, USDA-NRCS, Lake City, FL

Activities:

All activities were completed during the period of 17 to 20 February 2004.

Summary:

Tuesday morning was spent attempting to load the Data Transfer Utility into Eddie Cummings computer. This free utility program is needed to transfer radar data from the SIR System-2000 radar unit into Eddie's computer for processing with RADAN for Windows (version 5.0) software. Working with Fred Ducksworth and Scott Ratte of Geophysical Survey System Inc., it was learned that this program is not compatible with the Windows XP operating system used by NRCS. In order to use the RADAN for Windows software program and to process radar data, Eddie Cummings will need a ZIP drive to transfer data from the SIR System-2000 radar unit into his computer.

Tuesday afternoon was spent collecting radar data in Alachua County with my SIR System-3000 radar unit. Data collected were transferred from my GPR system to a CD, which was later read into Eddie's computer (this option is not available on Eddie's computer). The collected data were used for training.

The remainder of the week was spent in the Gainesville Field Office training Eddie on the use of the RADAN for Windows (version 5.0) software program. Training included file management, setting the initial pulse to time zero, color scale and transformation selection, marker and header editing, distance and surface normalization, migration, filtration, and range gain adjustments.

Eddie successfully entered, edited, processed radar data using the RADAN for Windows software. Once processed, Eddie transferred radar profiles into MS Paint and was able to prepare bitmap files of radar profiles for inclusion in trip report.

It was my pleasure to work in Florida and with Eddie Cummings. If I can be of any further assistance, please do not hesitate to ask.

With kind regards,

James A. Doolittle
Research Soil Scientist
National Soil Survey Center

cc:

- R. Ahrens, Director, USDA-USDA, National Soil Survey Center, Federal Building, Room 152, 100 Centennial Mall North, Lincoln, NE 68508-3866
- M. Golden, Director of Soils Survey Division, USDA-NRCS, Room 4250 South Building, 14th & Independence Ave. SW, Washington, DC 20250
- W. Henderson, Jr., State Soil Scientist, USDA-NRCS, 2614 NW 43rd Street, P.O. Box 141510, Gainesville, FL 32614-1510
- C. Love, State Soil Scientist/MLRA Office Leader (MO-15), USDA-NRCS, 3381 Skyway Drive, P.O. Box 311, Auburn, AL 36830
- C. Olson, National Leader for Soil Investigations, USDA-USDA, National Soil Survey Center, Federal Building, Room 152, 100 Centennial Mall North, Lincoln, NE 68508-3866
- W. Tuttle, Soil Scientist (Geophysical), USDA-NRCS-NSSC, P.O. Box 974, Federal Building, Room 206, 207 West Main Street, Wilkesboro, NC 28697