

Attachment F

FLORIDA DEPARTMENT OF COMMUNITY AFFAIRS
DIVISION OF EMERGENCY MANAGEMENT

QUARTERLY REPORT FORM

SUBGRANTEE: Florida International University

Project Number #: 1249-0079

PROJECT LOCATION: Windstorm Simulation & Modeling

DCA ID #: 01HM-4L-13-00-05-042

DISASTER NUMBER: FEMA-DR—1249-FL

QUARTER ENDING: October 1, 2002

Percentage of Work Completed (may be confirmed by state inspectors):

50.0 %

Project Proceeding on Schedule: Yes No

Describe milestones achieved during this quarter:

A progress report and final LIDAR data set were delivered to Broward County. The language for the Miami-Dade County Interlocal Agreement was finalized and the contract is waiting for final approval by the County Commission. Improvements on more sophisticated water, building, and vegetation animation are continuing. During this project cycle, we began to look into the lighting effects on the animation environment to create a more realistic model. The progressive morphology filtering algorithm that removes "noise" from the LIDAR data continues to be modified and improved. Researchers focused on extracting the buildings and vegetation while saving a majority of their 3D information, which is needed for a Virtual Terrain Project environment. Hurricane Andrew has been selected for testing the storm surge simulation for the ADCIRC numerical model used by the National Hurricane Center and US Army Corps of Engineers. The purpose of this model simulation was to test the model response to varying wind field and wind drag coefficients.

Provide a schedule for the remainder of work to project completion:

This is a three-year project. A LIDAR workshop will be held during November 15, 2002 where the participating counties can learn how to store, use, and disseminate the LIDAR data and also learn how to integrate the data into existing storm surge models. It has been estimated that a final contract agreements will be reached by November 2002 for both Miami-Dade and Manatee County. Upon reaching a contract agreement, data acquisition for Miami-Dade, Manatee, and Martin Counties will be performed during Winter 2002. The computer visualization and simulation of hurricane storm surges will continue into the second and third years with major focus being placed on the SLOSH model. During the third year, completion of final reports to all participating counties will be provided.

Describe problems or circumstances affecting completion date, milestones, scope of work, and cost:

There are no problems at this time.

Cost Status: Cost Unchanged Under Budget Over Budget

Additional Comments/Elaboration:

There are no comments at this time.

NOTE: Department of Community Affairs (DCA) staff may perform interim inspections and/or audits at any time. Events may occur between quarterly reports which have significant impact upon your project(s), such as anticipated overruns, changes in scope of work, etc. Please contact DCA as soon as these conditions become known, otherwise you may be found non-compliant with your subgrant award.

Name and Phone Number of Person Completing This Form: Carolyn Anderson (305) 348- 1607