HAZUS-MH Program Update

SoCal Hug Meeting, January 15, 2008

HAZUS-MH MR3

MR3

- **Release date: September 2007**

- **Platforms: ArcGIS 9.2 SP4 and SQL 2005 Express SP2.**

- **No changes to Windows XP SP2 and 2000 SP4 platforms.**

- **Windows Vista (32 bit) is not usable.**
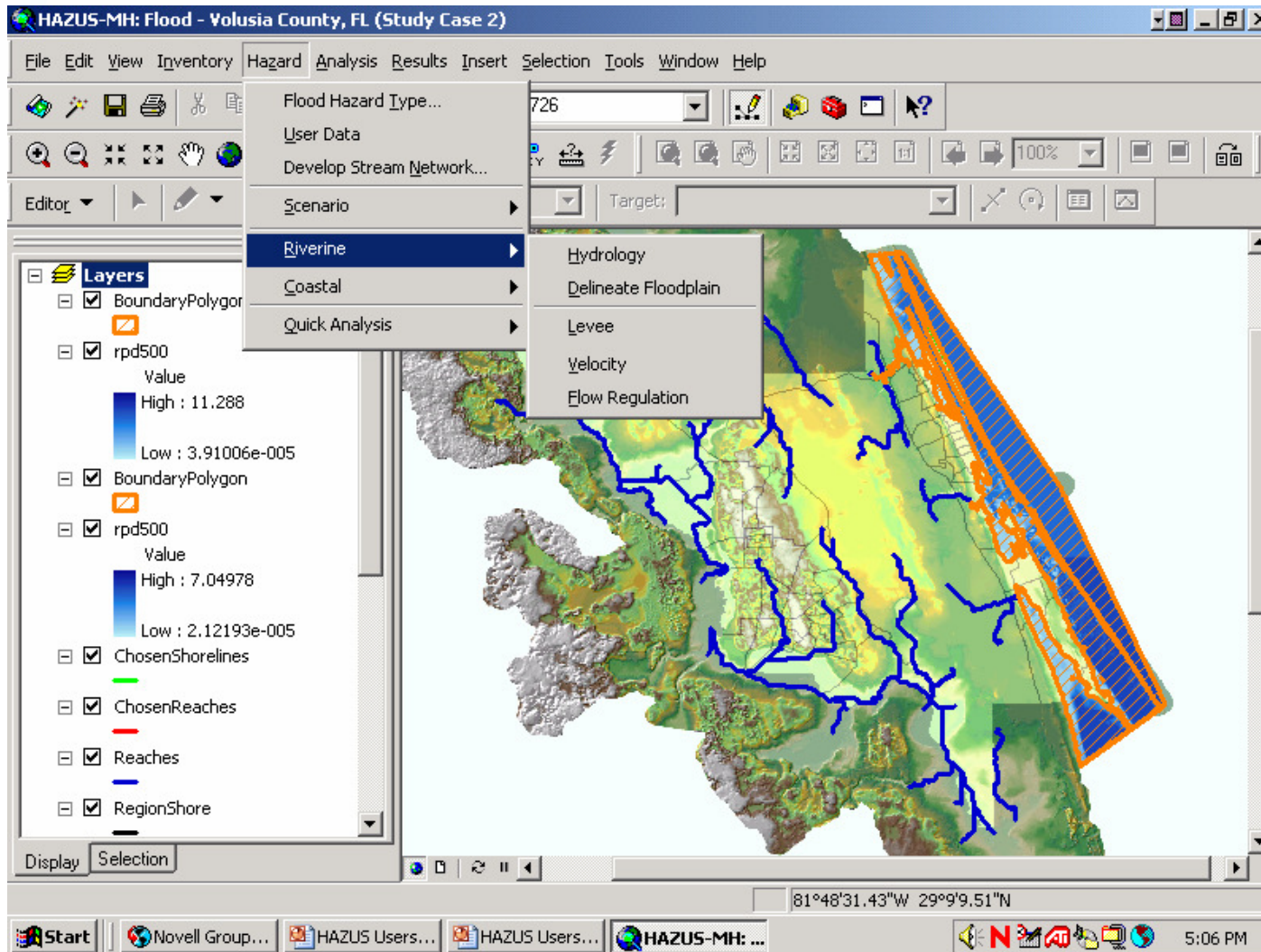
Data Modifications

- **Commercial data updated to Dun & Bradstreet 2006.**

- **Building valuations updated to R.S. Means 2006.**

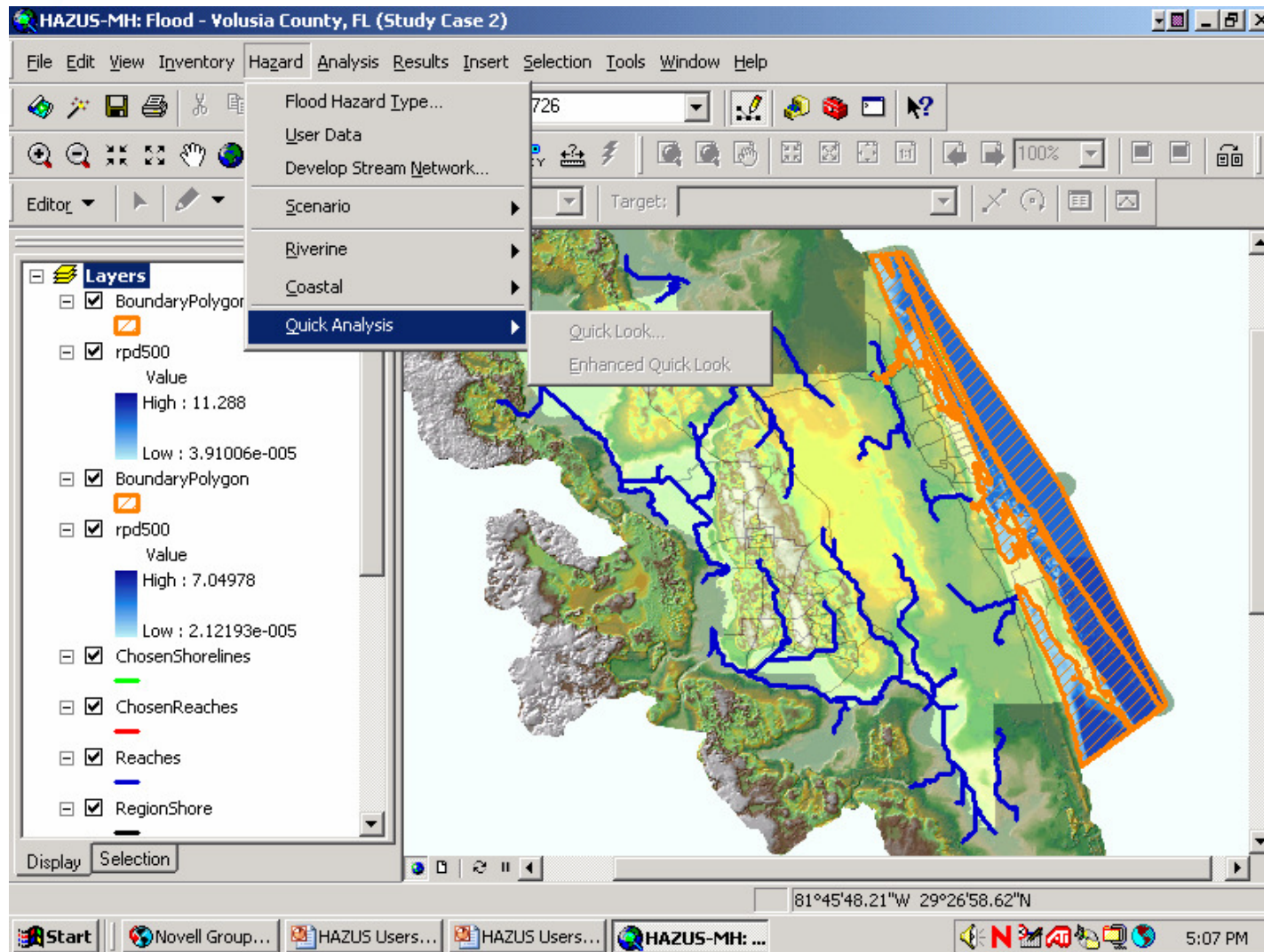- **Census-based housing counts available for RES1 and RES2.**

Flood Enhancements

- **New hazard menu interface.**

- **Import user-supplied flood boundaries and depth grids through Enhanced Quick Look.**

- **Optimized General Building Stock analysis.**

Hazard Menu Interface

Quick Look Interface

Hurricane Enhancements

- **Updated windfield model.**

- **2004 and 2005 historic storms added.**

- **Use of HURREVAC data restored with an adjustment feature for damage and loss calculation.**

- **Tree blowdown losses for manufactured housing.**

Earthquake Enhancements

- **Population parameters in the Casualty Module adjustable in SQL Express.**

- **Partial ignitions eliminated in the Fire Following Module.**

HAZUS-MH MR3
Patch 1

Patch 1 Enhancements

- **Release Date: December 2007**

- **Allows restarting the hydraulic analysis from the point the computer runs out of memory.**

- **Riverine and coastal hydraulic analyses can be run with non-matching return periods.**

Patch 1 Enhancements

- Coastal analysis is fully operable with the QuickLook feature.

- Coastal building economic loss is available in full replacement and depreciated values.

- Landslide probabilities and peak ground deformations are now generated for site-specific facilities.

HAZUS-MH MR3
Patch 2

Patch 2 Enhancements

- **Projected Release Date: February 2008**

- **An unlimited number of Flood Model reaches can be analyzed in hydraulics without memory failures.**

- **AAL results in the Flood Model for a return period correspond with the depth grid and damage and loss results for that return period run individually.**

CDMS

CDMS

- **Projected Release Date: March 2008**

- **Update and manage the statewide datasets that support a HAZUS analysis.**

- **Process site-specific information at both the census block and tract levels.**

- **Query, sort, export, and print capabilities.**

HAZUS-MH MR4

MR4

- **Projected release date – Summer/Fall 2008**

- **Platforms: ArcGIS 9.3, Windows Vista - 32 bit**

MR4 Enhancements

- **Dam/levee analysis (FL)**

- **Updated Fire-Following Module (EQ)**

- **Alternative damage functions (EQ)**

- **Updated transportation, schools, agricultural and vehicle valuation databases**

Other Studies

Flood Model Validation Study

- **Conducted by ASFPM.**

- **Completed a damage analysis for the Mole Creek watershed in Ozaukee County.**

- **Completed a Level 2 study for Darlington, Wisconsin.**

- **Conducting validation studies in CA, PA, MD, FL and TX.**

Annualized Loss Studies

- **Update of the 1999 national average annualized loss (AAL) study for earthquakes nearly complete.**

- **First nationwide AAL study for hurricanes in the Atlantic and Gulf Coast states and Hawaii complete.**

- **Nationwide AAL study for floods underway.**

Questions?