

## **Hydrology/Hydraulics GIS Applications Workgroup**

### **Minutes of teleconference November 5, 2007**

Attended: Dave Goodrich (ARS), Dave Wells (EPA), Min Kim (OSM), Bill Merkel (NRCS), notekeeper

#### **Web Page:**

The web page for the workgroup is: <http://acwi.gov/hydrology/h2gisa/>

The web page for the Subcommittee on Hydrology (SOH) is: <http://acwi.gov/hydrology>

The list of members and the past teleconference minutes have been added to the web page.

#### **GIS applications in Hydrology and Hydraulics:**

The larger part of the teleconference addressed building a list of GIS applications in H&H. EPA Basins is being migrated to an open source GIS and will build data sets for several hydrologic models including HSPF. In the future it will interface to SWAT, SWMM and WASP. ARS AGWA includes a GIS interface to SWAT and KINEROS. NRCS Geo-Hydro is a GIS interface to the WinTR-20 hydrologic model. ESRI developed a watershed boundary application (used to delineate 8, 10, and 12 digit watersheds) for the NRCS. That product is now public domain.

#### **Questionnaire:**

Since the members of this workgroup do not have all the information available for the various applications, a questionnaire to distribute and request information will be written. The questionnaire needs to be designed to receive the most useful information on the models of interest. The minimum information to be requested will be a web link, contact person, short summary, and data requirements. There are potentially a large number of models which could be included. The questions yet to be answered are what are the specific limits or scope of model function or purpose to include in the list. A hydrologic and/or hydraulic model should be linked to GIS, be public domain, have user documentation, and be available on the web. Possibly more specifics need to be defined. Input from the Workgroup members is welcome on this subject.

#### **Report to SOH:**

A report on the first teleconference was presented at the meeting of the SOH on October 18, 2007. A report will be presented at the next SOH meeting which is scheduled for January 24, 2008.

**Coordinate with other committees:**

Two particular groups were identified for potential coordination. The Subcommittee on Spatial Water Data (SSWD) and Hydrologic Modeling Workgroup could have subjects of mutual interest. Dave Wells will contact the SSWD for the next meeting date. A representative from this Workgroup will try to attend. The Hydrologic Modeling Workgroup has set up a web link to a variety of hydrologic models. The link is <http://hydrologicmodels.tamu.edu/> This Workgroup is interested in those models which are linked to GIS.

**Action Items from Teleconference:**

1. Workgroup members are requested to send in a fact sheet (or summary paragraph) and links to hydrology and/or hydraulics GIS applications within their own agencies.
2. Bill Merkel will write a draft questionnaire to distribute to members of the SOH to forward within their own agencies requesting a link or summary of GIS applications in hydrology and/or hydraulics. The members are asked to review and send comments before the next teleconference.

**Next teleconference:** Monday, January 7, 2008 at 11:00 AM eastern time.