

Hydrology/Hydraulics GIS Applications Workgroup

Minutes of teleconference September 23, 2008

Attended: Steve Haley, John Hunter, Vijay Singh, Jennifer Bountry, Bill Merkel, notekeeper.

Web Pages:

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>

These teleconference minutes will be added to the web page.

Coordinate model list web site with Vijay Singh

Vijay Singh and Don Frevert maintain a list of hydrologic model contacts at Texas A&M University (TAMU). The web site for this is <http://hydrologicmodels.tamu.edu/> for anyone who wants to see what models are listed and their contacts. Jennifer is investigating the possibility to obtain funding through the CESU program to support a student to organize information on the GIS applications and update the TAMU web site. She has prepared a draft proposal which is attached to these minutes. Please comment on the proposal with respect to tasks to be completed. The amount of funding to be requested is \$20,000. Vijay has prepared a questionnaire and guidelines which were distributed to those who would like to have their hydrologic model listed on the TAMU web site. These are also attached to the teleconference minutes. Vijay's questionnaire will be compared to the one developed by this work group to see if there is similar information requested.

Some ideas for the proposed work which were discussed were to categorize the hydrologic models into groups which would make it easier for a hydrologist to find what they are looking for. Several models investigated by the work group have a 1-2 page fact sheet. It may be possible that these could be made available as well as the questionnaires which were returned.

Questionnaire

This is a status of GIS applications of H&H identified so far and information retrieved.

Model Name	Developer / Supporter	Questionnaire Returned	Included in TAMU model list	Comment
EPA Basins	EPA			Data organization and analysis
Map Window	Idaho State Univ			Open source GIS with DEM processing operations
HEC Geo-RAS	USACE	yes		Hydraulic modeling
HEC Geo-HMS	USACE	yes	yes	Hydrologic modeling
Stream Stats	USGS	yes		Regression equations for peak discharge
NRCS Geo-Hydro	NRCS			Hydrologic modeling
AGWA	ARS		yes	Data organization and analysis
Kineros	ARS			Hydrology/erosion/sediment modeling
GIS Weasel	USGS	yes		GIS data preparation tool
eCoastal	USACE	yes		Coastal engineering
HAZUS	FEMA			Natural hazard analysis
GIS Hydro	U of MD			Hydrologic modeling in MD
NHD Plus	USGS			Stream network data and analysis
SWAT	ARS			Hydrologic/water quality modeling

Draft Report of Workgroup

A draft report concerning GIS applications in hydrology and hydraulics was discussed. It is planned for the end of calendar year 2008. The main content of the report will be progress to that date which will include questionnaires and coordination on web links for the various GIS applications.

Action Items from Teleconference:

1. Comments on the proposal for adding GIS applications to the TAMU web site are welcome up to October 3, 2008. At that point Jennifer will submit the proposal to receive funding.

2. Workgroup members are requested to submit model names and contacts for those not listed in the table above.
3. Bill will compare the questionnaire of Vijay Singh and the one prepared by this workgroup. Then send questionnaires to contacts for models listed in the table above which do not have one already returned.

Next teleconference: Wednesday, November 5, 2008 at 11:00 AM eastern time.