

Hydrology/Hydraulics GIS Applications Workgroup

Minutes of teleconference November 5, 2008

Attended: John Hunter, Dan Wickwire, Zhida Song-James, 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.

Membership: Mary Greene has transferred from the Office of Surface Mining to the Natural Resources Conservation Service in Portland, OR.

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 has received comments from the work group and has edited her proposal. At this point we need to wait and see if and when the proposal is funded. The questionnaires for the hydrologic models web page and the GIS applications list were compared. There is some overlapping information (such as contact, data requirements, computer requirements, etc) but the hydrologic model questionnaire is somewhat more detailed. Since 9 of the 14 applications already have returned questionnaires, and some more have been sent out, changing the GIS application questionnaire would be difficult now.

Federal Interagency Hydrologic Modeling Conference

Participation in the conference was discussed. Abstracts are requested by July 1, 2009 for the conference which will be held June 27 – July 1, 2010. There is potential for the work group members to present information pertaining to GIS applications in hydrology and hydraulics.

Since there are several months to decide what to do, feedback from work group members is requested. There will very likely be representatives from our various agencies which will be submitting abstracts without the knowledge of the work group. Bill is a member of the SOH and thus will be able to review the abstracts after they all have been submitted and participate in grouping these into technical sessions.

However, this does not mean the work group cannot take a pro-active role in the conference. Various actions to be considered are 1) requesting representative of our own agencies to submit abstracts, 2) co-authoring a paper about the activities of the work group, 3) setting up computer demonstrations, and 4) organizing a short course. Whether or not the work group takes a more active part or not, it is nevertheless a very worthwhile conference to attend.

Questionnaire

This is an updated list 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	yes		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	Yes, two versions		Hydrologic modeling
AGWA	ARS		yes	Data organization and analysis
Kineros2	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 state of Maryland
NHD Plus	USGS	yes		Stream network data and analysis
SWAT	ARS			Hydrologic/water quality modeling

At some point (probably January after all are returned) the questionnaires will be zipped and sent out to work group members for review.

Live Meeting

The work group would like to set up Microsoft live meetings for GIS application demonstrations during upcoming teleconferences. Even though we had a successful demo of MapWindow a few months ago, some work group members are not so familiar with how to operate within live meeting. To participate in a live meeting, each participant is designated as a host, presenter, or participant (a host can also be a presenter). An e-mail is sent out to each participant which will have a link to the live meeting connection. We are not sure what the maximum number of participants to a live meeting is but future meetings should have a maximum of 15 or so participants. There will be a possibility to invite a limited number of individuals who are not work group members as well as request a non-work group member to make a presentation. A test live meeting presentation will be set up for anyone who would like to learn about it and to test their network connection.

In future teleconferences, those applications which are of greatest interest to the work group will be demonstrated. Please let Bill know which applications are of most interest to you.

Action Items from Teleconference:

1. Work group members are requested to consider what role the work group should take in the upcoming Federal Interagency Hydrologic Modeling Conference. Please e-mail comments to Bill and we can discuss these at our next teleconference.
2. Workgroup members are requested to indicate which of the applications they would have an interest in a live meeting demonstration. The target date is November 25. Based on this list, Bill will request someone familiar with the application to present the demonstration.
3. Bill will set up a test Microsoft live meeting session tentatively for Tuesday November 25 at 11:00 AM eastern time. Anyone interested in participating should send a confirmation e-mail. The purposes are to become familiar with the presentation options and make sure all connections are working.
4. If there are any other GIS applications not in the above table, please e-mail information to Bill.

Next teleconference: Wednesday, January 7, 2009 at 11:00 AM eastern time.