GIS Working Group 2008 IM Committee Meeting Notes

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Tue, 09/16/2008 - 11:22am — tvalentine

The GIS Working Group of the IM Committee met on September 9th for 2 working sessions.

Recommendations/Actions from the Meeting:

Session 1:
1. Work on development of white paper on recommendations for GIS standards and providing information for Cyber infrastructure plan. This session will also look at OGC (Open Geospatial Consortium) Standards, specifically related to GML and GeosciML. (Theresa will start a draft for other members to comment on)
Goals
How we will know when we've reached them
Work plan with specific plans
Open source GIS standards
Recommendations to IM Committee

2. Landuse/Land Cover GIS needs
Review Trends data and see if GIS community can group sites around common needs/issues
How far are you from a population center? What is the density?
How far is the closest agriculture?
Level of tourist impacts?
Look at population changes over time from Ecotrends.
Group sites based on these questions and have those groups determine what GIS requirements are relevant. Barbara N. heading this up
Coordinate with researchers at ASM to further understanding of what data is needed. Within groups, use sites with more progress as models and leaders for the rest of the group.

3. Emerging technologies, data sources, issues
What do we expect to be in demand in the future. Adam and Hap will compile a list. Discussion to be on the IM forum. Hold session at All Scientist meeting.

4. Look at OGC (Open Geospatial Consortium) Standards, specifically related to GML and GeosciML. (Theresa/John C. to work on)

Session 2:
GIS Server
Target audiences: General Public, LTER community, specific sites. Most important clients are PIs and public. Tie in with SiteDB.
Start of Requirements:
*view, search data sets by geographic location, and access to data tables (works with EML)
* download data
* ability to "mashup" the data with other sources
* access to EcoTrends data
* open source capability
* authentications (restricted access to some data)/working group access
*consistent across sites (names/interfaces/geoprocessing libraries (code)/tools)
Work Plan
1. DATA: Site boundaries/DRG's/DEM for each site Trends Data: Barrie to pull together @Coweeta Barrie is going to get schema of data to Interface group.
2. Interface: Develop a basic web interface to data: Beta to IM community: March 09 rollout to LTER @ ASM. Theresa, Jonathon, Jamie, Adam
3. Portal: Portal Toolkit information December 1 target Ken R. to report
4. Clearinghouse of GIS Data web services with LNO, place to post who is working on what, place to add list of links to GIS data sources. Eventually want to make this information available to a broader audience. Goal is to reduce redundant work across sites and help people find data. Theresa to set up forum.

Best Practices
Need to start filling out best practices for GIS. Forum available for this.
Includes requirements for metadata, data, field protocols. This should serve as a guide for PI's/new IM's. Will result in a usable dataset without continuous

feedback from researcher. Organized by Theresa and Inigo.

Training Opportunities
Lidar, server side training, brief into to GIS for IMs who don't know GIS. ESRI has online courses. Survey IM community to see what needs are. (Theresa to set up forum on website for ideas)

Project Project Would like to get spatial component into this project. We need a volunteer to sign up to be involved.

The following participated in the sessions:

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Source URL: http://im.lternet.edu/node/363

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[15] http://im.lternet.edu/taxonomy/term/50