

GIS Recommendations from the 2007 LTER IM Meeting in San Jose



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Mon, 08/17/2009 - 3:33pm — tvalentine

Update on 2003 Recommendations from GIS Working Group to LTER Information Managers (July 2007)

1) Require sites to place “basic spatial information” on-line (all sites have some. LNO

has siteDB)

a) Include study site description information that is required for journal articles

b) Include relevant metadata for all spatial data, including all required EML elements such as projection, coordinate system, and datum

Suggestion: develop into “GIS data guide for Mentoring website”

2) GIS Working Group will identify this “basic spatial information” after analyzing the

GIS Capacity Survey distributed through Data Bits, fall 2003. NISAC will review

this basic information list. The following are potential basic data sets for each site:

All sites have this basic information, may or may not be on line (22 sites have some data on line).

- a) Basic site boundary
- b) Digital Elevation Model (DEM)
- c) Imagery (Landsat TM scene)
- d) Research plot locations (based on GPS of core research plots)
- e) Roads
- f) Hydrography
- g) Structures
- 3) Collect georeferencing information for every research plot/site/observation location

(all sites have at least one, many have more)

- a) Include as GIS file format or coordinate pairs (x, y locations).
- 4) Develop a centralized portal for users to search, display, and access all site spatial data. (some sites have portals, SiteDB is a start for cross-site searches, working on with workshop)
- 5) Develop a strategy for providing basic map service capacity with for every site in the network. 18 sites have internet map sites (April 2007)

6) Possible solutions

- a) Sites with map service capacity 'adopt' other sites for providing map serving services (mentoring)
- b) Network office provides the infrastructure for a central map service. (? On what capacity does/will LNO have?)
- c) Provide training for individual sites (mentoring)
- 7) Develop standard client application templates that all sites can use. (Internet Mapping, Atlas programs) One template for watershedDB
- 8) Hold an annual GIS workshop/meeting in conjunction with the annual IM meeting.

(IM reorganization)

- 9) Form a GIS Analysis Group to investigate methods for facilitating data analysis across sites and assist researchers with synthesis. (did not get funding, but did get

funding for workshop with social scientists after the 2006 ASM)

- a) 20 people have signed up to be involved with this group
- b) Analysis Group will propose a joint workshop with researchers.
- 10) GIS Working Group will identify necessary funding to accomplish these recommendations

Framework for discussion/report on the action items.

- 1) Ask LNO about plans for SiteDB
- 2) Publish a recommended list of data in Mentoring website.
- 3) Complete this recommendation (move it up the chain)

- 4) SiteDB as centralized portal, where else? Funds?
 - 5) work with mentoring group
 - 6.) Do we want or need templates? Is it useful? Efficient? How do use globes, google earth?
 - 7) IM reorg/ self organization. . . how will we communicate with each other
 - 8) Land Use/ Land cover workshop
- Other issues/concerns:
Where does remote sensing fit in?
9) what resources do we need?

- gisData [1]

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