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IP Address: 144.92.62.184

Started Survey: 2/15/2007 2:01:13 PM **Ended Survey:** 2/15/2007 2:49:07 PM

2. LTER Site Name and survey user

1. What LTER Site do you represent? Please select the LTER site acronym:

NTL

2. Please enter any of the LTER roles, duties, committee affiliations of the PRIMARY information management personnel at your site:

LTER Research Scientist

Other (please specify) - Other Professional

3. What position(s) most closely matches the general job functions of the PRIMARY information management personnel at your site? (select any/all that apply)

System Administrator
 Network Administrator
 Software Developer
 Webmaster
 Spatial Data Manager/Analyst
 Database Administrator
 IT Professional
 Scientist

3. General data/information management infrastructure

4. How many full time positions (FTE's) does your site CURRENTLY allocate for ALL information management (all types including data entry from technicians, data management specialists, web designers etc.) at your site? This will include all funding sources. LTER funding from NSF, supplements, other NSF grants, partnerships, cost share etc.

2.75

5. How many full time positions (FTE's) does your site allocate for information management from the LTER funding from NSF, including supplements? The amount here, when subtracted from the total in the previous question should equal the number of FTE's who are funded from OTHER sources (other grants, cost-share etc).

1.75

6. Please indicate the type of background and training of the PRIMARY site information management personnel. "Formal training" means coursework or certification.

Formal training or education in computer science. - High
 Acquired (on the job training) computer science training. - Medium
 Formal training or education in data management/database software. - Medium
 Acquired (on the job training) in data management/database software. - Medium
 Formal Ecological/Biological Science training or education. - High
 Acquired (on the job training) in Ecological/Biological Science. - High
 Formal GIS/Remote Sensing training or education. - High
 Acquired (on the job training) in GIS/Remote Sensing. - High
 Social Science or education. - Medium
 Acquired (on the job training) in Social Science or education. - Medium

7. Please RANK the following information management task areas, in order of effort at your site. The ranking should start with #1 being where you spend the most effort to #10 being where you spend the least effort. NOTE: You do NOT have to select all items if they don't apply. NO TWO can have equal importance - you have to decide...

- General site data management including database development, data entry, providing data, archive and backup. - 1
- Web design, maintenance and update. - 4
- Software development (writing scripts and code). - 6
- Metadata generation - creation, update, registration, harvesting. - 5
- Information Management directly related to Network-level and cross-site research. - 2
- Site system administration - site-based hardware and network support. - 7
- User SYSTEM support - hardware help and support for site personnel. - 8
- General user support - non-hardware related help for site personnel such as answering software related questions, study design, statistics, modeling etc. - 3
- Site administration tasks (filling out paperwork, ordering supplies, doing hardware inventory etc). - 9
- Other tasks not included in the above. - 10

8. What type of training would be most useful at your site? Please rank the following in order of need or importance. Note: No two items can have the same rank, but DO NOT SELECT ITEMS THAT ARE UNIMPORTANT.

- Database management systems. - 4
- Metadata, EML and EML implementation. - 5
- Spatial data/GIS. - 7
- Use of advance technology including new sensors. - 1
- Wireless data transmission. - 6
- Programming and script writing. - 3
- Personnel management. - Empty
- Proposal writing and preparation. - Empty
- Scientific publication. - Empty
- Web design, implementation. - 2

9. What major information management support, and level, is provided by the home/host institution(s) of your site rather than what your site provides for its own use? Select any that apply.

- Email (use the home institution's email system rather than one supported primarily by the site) - 3
- Database (use the institution's database system) - 1
- Web servers (use the institutions web servers) - 1
- Computational Infrastructure (use the institution's computational infrastructure for analysis, statistics, modeling, etc. rather than the site's own infrastructure) - 2
- Network infrastructure support is provided by the home institution. - 3
- System administration is provided by the home institution - 2
- Technical support is provided by the institution - 2
- Institutional (site) software licensing or educational discount - 3

10. What type of collaboration tools are used at your site (select all that apply, and enter any other not listed here)?

Regularly scheduled meetings.
Common filesharing is used (such as a shared file system for users at the site).
Email list servers.
Telephone conferencing
Video conferencing.
Other (please describe) - Web based bulletin board software (Discus)

11. What type of collaborative cyberinfrastructure / information management partnerships (outside of LTER) is your site engaged in?

The site maintains an active collaboration with high performance computer centers (SDSC, NCSA, etc).
The site maintains an active collaboration with local or national USGS centers such as NBII.
Other (please describe) - WiscView is part of America View Network

4. Site metadata and EML implementation.

12. What percentage of all site data has corresponding structured METADATA OF ANY TYPE, including EML?

90

13. What percent of all site metadata has been converted to EML to at least the "identification" (base) level?

90

14. What percent of all site metadata has been converted to EML to the "discovery" level or beyond?

90

15. What percent of all site metadata has been converted to EML to the "integration" level or beyond?

90

16. Of the known site historical/legacy data - i.e. data the site might not consider part of its standard research data, what percentage has corresponding EML metadata (at any level)?

50

17. Of the known site GIS, including remote sensing data, what percentage of that total has corresponding EML metadata (at any level)?

80

18. Of the known site remote sensing data, what percentage of that total has corresponding EML metadata (at any level)?

20

19. About what percent of LTER site METAdata are registered/harvested in the LTER Metacat?

70

20. What percent of LTER site data have a direct link from the metadata, or the actual data are included in the metadata so that they can be directly accessed online?

60

5. Overview of site information management

21. What is the general way research data are managed at your site? Select all that apply.

The site information manager(s) manage most site data.

Most site data is entered by site technicians.

Student research data (i.e. thesis data) are generally included in the site information management system.

Site legacy data (historical data existing before the site was established) are included as part of the standard site LTER data.

Standard procedures or training exists for use by technicians and researchers to enter and manage their data.

Standard procedures or training exists for use by technicians and researchers to enter and manage their METAdata.

22. What type of quality assurance and quality control (QA/QC) procedure does your site follow for site data? Select all that apply.

The site has documented specific QA/QC procedures of its own.
 Researchers are responsible for QA/QC of their own data.
 QA/QC guidelines are not necessarily followed for all site data (such as student thesis data).

23. Please RANK in order from 1 to 10, the primary users of your data with #1 being the most frequent user of your site data. Note: No two items can have the same rank - you have to decide...

Site principal investigator(s) - 1
 Site researchers (non-PI), technicians and staff. - 4
 Site students - 3
 Outside (non-site) researchers and students - 2
 Outside or collaborating student researchers - 5
 Government agencies, NSF, NASA etc. - 6
 Policy makers, congress, government - 8
 Litigators, lawyers etc. - 9
 General public - 7
 Others not listed here - 10

24. How does your site track users of data? Select any that apply.

Users are tracked from information collected through data use policy forms.
 Users are logged by ftp or other internet tracking tools.

25. How are data generally distributed at your site? Select ALL that apply.

MOST site data are online and freely available and most data access does not require help from the site information manager(s).
 A "data license" or data use agreement exists, but is voluntary.
 Response to data access are tracked or recorded.
 A procedure exists for access to sensitive or proprietary data - i.e. sensitive data is cataloged and a method to access the data exists.

26. On-line site data are provided through the following mechanisms: Select all that apply.

The site website provides direct access to data.
 Site data are managed through a database system such as MySQL or Oracle.

27. In addition to off the shelf tools for information management, briefly describe what tools, if any your site has developed.

Other (please describe) - Chemlab - lab management and data entry system Log2DB - remote sensor data middleware FishSamp - fish data collection software Zoopomatic - Computer assisted zooplankton counting and measuring Modis data processing applications EML generation applications Sensor network cyber dashboard Dynamic database query system dbBadger - data aggregation and analysis tool

28. For GIS data maintained at the site (select all that apply):

Most site GIS/spatial data are provided online.
 Most site GIS/spatial data have corresponding EML metadata.
 Most original (raw) remote sensing data are included in the site spatial data holding.
 Internet map services are used at the site for DISPLAY and SEARCH of GIS data.

6. LTER site instrumentation infrastructure

29. How are standard/routine meteorological data (data from more or less standard meteorological stations) collected/managed at the site ? For shipboard systems or buoys, use the closest method listed (select all that apply).

Meteorological data are downloaded from the nearest NOAA or National Climate data center.
 Meteorological data are collected by hardwired phone/modem system.
 Meteorological data are collected by automated radio or wireless transmission and collected automatically.

30. What type of GPS location information is maintained for the LTER site? Please select all that apply, and add any information not listed here.

The site "boundary" is defined in spatial coordinates, for instance, a "shapefile" exists describing the site location.
 The primary research site locations are maintained in a file or database.
 The primary research site locations are publicly available on the site webpage.
 The primary research site locations are available on the NETWORK (i.e. sitedb) webpage.
 High precision control points or benchmarks are established for reference at the LTER site.
 Most research data are not generally stored with GPS location information.

31. What type of GPS equipment is available for use at the site (select all that apply).

High precision DGPS equipment (better than 3m accuracy) has been used at the site, but is not generally available for research use.
 Conventional GPS receivers (15m or worse accuracy) are generally available for use at the site.

32. Besides conventional meteorological measurements, what type of sensor systems are routinely used for data collection at the site? This may vary for terrestrial and/or aquatic systems. In other words, does your site routinely collect specialized data in an AUTOMATED fashion? (Please specify or describe).

Streamflow gauges or automated weir measurements, automated current measurements
A vertical profile system (thermistor chain etc) on a tower or buoy collects data.
Other (please specify) - Acoustic Doppler Current Profiler

33. The site has installed a wireless network for automated data collection at the site (this would include radio data transmission that is eventually linked directly to the internet).

Yes

7. LTER site computer infrastructure:

34. What PRIMARY Server architecture is used for SITE data management? (select all that apply)

Linux-based systems
Other Unix (SunOS etc) based systems

35. What archive and backup procedures are used at your site? (select all that apply)

Active site data are maintained on fault-tolerant (i.e. RAID) systems.
The site uses a documented archive and backup plan.
Site data are archived using tape backup systems.
Site data are archived using CD or DVD or similar backup systems.
Data backup includes off-site/secure storage.

36. About what TOTAL data storage capacity does your site maintain for general LTER related data including backup capacity and other storage?

2.5tb

37. About what ONLINE data storage capacity does your site maintain for general LTER data and data distribution?

1tb

38. What is the primary link speed from the Home Institution(s) to the Internet? In other words, what kind of Internet connection does your primary site institution, university etc. have? For multiple institution sites, select what most have, or what the primary site institution has.

Internet link is 100mb/s

39. What type of internet capability is available for researchers at the Home Institution(s)? In other words, what is the general connection speed of your Local Area Network? Select the closest that applies.

Local Area Connection is 100mb/s

40. Wireless internet is available for researchers at the home institution.

Yes

41. What is the speed of the primary link to the Internet at the Research SITE ?

Internet link is less than 10mb/s

42. What type of internet bandwidth is available at the research SITE? In other words, what is the speed of the internal local area connection at the site? Select the closest that applies.

Local Area Connection is 100mb/s.

43. Wireless internet is available for researchers at the site.

Yes

44. What type of conferencing capability is available at the site's home institution(s)? Select all that apply.

Shared phone conferencing capabilities are available at the institution.
Local or shared ISDN video teleconferencing.
Voice over Internet (such as Skype).
Local internet video conferencing (such as Polycom video).
Shared internet video conferencing (such as Polycom video) is available at the institution.

45. What type of conferencing capability is available and used at the research SITE (select all that apply)?

Phone conferencing.
Internet video conferencing.

46. What type of computational capabilities does your site provide to researchers for data analysis - modeling, statistical analysis and data synthesis? Select all that apply.

Investigators use their personal systems for analysis.
The university/home institution provides most computational support for data analysis.

47. If your site uses a database, what is/are the PRIMARY database system(s) used for METADATA? Here we are not considering the use of flat files or html by themselves as a database. Select any that apply but only include ones actually in use or currently being implemented.

Oracle

48. If your site uses a database system for DATA, what is the PRIMARY database system(s) used ? Here we are not considering the use of flat files or html by themselves as a database. Select any that apply, but only include system actually in use or currently being implemented.

Oracle

49. Does your site use any CASE tools (database design tools) for database management? Select any that apply.

None

50. What basic analytic tools are used at your site (i.e. software)? Select any that apply, unless used rarely.

Microsoft Office Tools (Excel, etc.)
Matlab
SAS
SYSTAT
R

51. Please select or enter MAJOR Analytic MODELS or MODEL TOOLS in use at your site.

DYRESM

52. What type of data visualization software tools (separate from GIS and statistical tools) are used at your site? Select any that apply, unless used rarely

Matlab

53. What type of GIS software tools are used at your site ? Select any that apply, unless used rarely.

ArcGIS, ArcView, ArcServer etc.

Erdas Imagine

IDL

Custom designed (please describe)

Other (please specify or describe) - MODIS image software - custom-developed software for acquiring and preprocessing MODIS satellite imagery. OrthoMapper - digital photogrammetric system

54. What type of PROJECT management tools are used at your site ?

None

8. General site cyberinfrastructure needs

55. If your site were to increase the volume of data or the number of datasets you are managing by a factor of 10, 100 or more, Please rank the needs, in order from 1 to 10, in order of importance (1 is most important) that your site would require. Note: You do not need to select all items. No Item can have the same rank, you have to decide...

Faster/better internet connection speed (wireless etc) in the field. - 7

Faster/better internet connection speed at the field site. - 9

Faster/better internet connection speed from the home institution to the internet. - 10

Better, faster software for managing metadata. - 3

Better, faster software for managing data. - 2

Training for information management personnel. - 6

A faster or more server(s). - 4

More disk space for data storage at the home institution. - 5

More disk space for data storage at the field site. - 8

More information management personnel. - 1

56. What new cyberinfrastructure is your site planning to implement in the future? (If you have no specific plans, just list "nothing planned".

Enhanced query interface to online data catalog. Online access to [some] remote sensing data sets. Method to use GPS to record most field sampling locations.

57. What specific barriers exist to better data use or management at your site?

Need better tools to manage high volume /high freq data. Tools for accessing data and linking data to models in near real time Limited personnel resources. Need more training of users. Need for better ways of integrating management of very different broad categories of data (e.g., traditional field/laboratory measurements versus continuous time-series data from automated sensors versus spatial data)

58. What new/additional sensor technology capabilities does your site require to improve your site or Network-level science?

More sensor types - e.g., biological sensors. Tools for high volume / high freq data collection and processing. Autoconfiguration of sensors and programs. Better QA/QC tools.

59. What new or additional cyberinfrastructure/IT capacity does your site require to improve your site or Network-level science?

More personnel resources. Federated databases. Data integration tools. Collaboration tools.

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