

## 2010 LTER Cyberinfrastructure Capability and Needs Survey [Edit](#)

Design Survey

Collect Responses

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### Response Summary

Total Started Survey: 26  
Total Completed Survey: 26 (100%)

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PAGE: LTER SITE NAME AND SURVEY RESPONDENT INFORMATION

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

[Create Chart](#)[Download](#)

	Response Percent	Response Count
AND	3.8%	1
ARC	3.8%	1
BES	3.8%	1
BNZ	3.8%	1
CAP	3.8%	1
CCE	3.8%	1
CDR	3.8%	1
CWT	3.8%	1
FCE	3.8%	1
GCE	3.8%	1
HFR	3.8%	1
HBR	3.8%	1
JRN	3.8%	1
KBS	3.8%	1
KNZ	3.8%	1
LNO	0.0%	0
LUQ	3.8%	1
MCM	3.8%	1
MCR	3.8%	1
NWT	3.8%	1

NTL	3.8%	1
PAL	3.8%	1
PIE	3.8%	1
SBC	3.8%	1
SEV	3.8%	1
SGS	3.8%	1
VCR	3.8%	1
answered question		26
skipped question		0

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

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	Response Percent	Response Count
LTER Site Principal Investigator (i.e. is a signatory PI on LTER grant)	15.4%	4
LTER Research Scientist	19.2%	5
LTER Site Manager (such as the person who runs a field site)	11.5%	3
LTER Site Administrator (i.e. administrative staff)	15.4%	4
LTER Climate Committee	11.5%	3
LTER Network Information System Advisory Committee	19.2%	5
LTER Education Committee Representative	3.8%	1
LTER International Committee Representative	3.8%	1
LTER Social Science Committee Representative	3.8%	1
LTER IM Working Group Participant	80.8%	21
LTER IM Executive Committee	23.1%	6
Other (please specify) <a href="#">Hide Responses</a>	34.6%	9

1.	3 NIS Tiger Teams	Wed, Jan 26, 2011 10:58 AM	<a href="#">Find...</a>
2.	Former LTER IM Executive Committee	Wed, Jan 19, 2011 12:27 PM	<a href="#">Find...</a>
3.	Site Executive Committee	Tue, Jan 18, 2011 12:12 PM	<a href="#">Find...</a>
4.	LTER IM co-chair	Fri, Jan 14, 2011 4:45 PM	<a href="#">Find...</a>
5.	IMC WG Chair	Tue, Jan 4, 2011 12:42 PM	<a href="#">Find...</a>
6.	IMC Working Group CoChair	Tue, Jan 4, 2011 11:49 AM	<a href="#">Find...</a>
7.	None of the above	Thu, Dec 23, 2010 9:19 AM	<a href="#">Find...</a>

8. Unit Registry Co-Chair	Thu, Dec 23, 2010 6:54 AM	<a href="#">Find...</a>
9. LTERMapS	Wed, Dec 22, 2010 9:06 AM	<a href="#">Find...</a>

answered question	26
skipped question	0

**3. What position(s) most closely matches the general functions of all the PRIMARY information management personnel at your site? (select any/all that apply)** [Create Chart](#) [Download](#)

	Response Percent	Response Count
Student	11.5%	3
Technician	19.2%	5
System Administrator	50.0%	13
Systems Design/Information Architecture	61.5%	16
Network Administrator	23.1%	6
Software Developer	46.2%	12
Webmaster	76.9%	20
Spatial Data Manager/Analyst	50.0%	13
Database Administrator/Programmer	73.1%	19
Data Curator	<b>80.8%</b>	<b>21</b>
Metadata Specialist	73.1%	19
Research Assistant	19.2%	5
IT Professional	53.8%	14
Researcher	46.2%	12
Scientist	38.5%	10
University instructor/lecturer	3.8%	1
University Professor (any level)	3.8%	1
Other (please specify) <a href="#">Hide Responses</a>	3.8%	1

1. Jack of all trades	Wed, Jan 26, 2011 2:46 PM	<a href="#">Find...</a>
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answered question	26
skipped question	0

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#### 4. What percent of your full NSF Site funding is devoted to data/information management?

[Create Chart](#)
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	Response Percent	Response Count
<1	0.0%	0
1	0.0%	0
2.5	3.8%	1
5	11.5%	3
10	<b>34.6%</b>	<b>9</b>
15	19.2%	5
20	23.1%	6
25	0.0%	0
30	3.8%	1
35	0.0%	0
40	0.0%	0
45	0.0%	0
50	3.8%	1
>50	0.0%	0
	<b>answered question</b>	<b>26</b>
	<b>skipped question</b>	<b>0</b>

#### 5. Approximately what % time does your Site spend on LTER Network-level (as opposed to local Site) Information Management activities?

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	Response Percent	Response Count
0	0.0%	0
1	0.0%	0
2.5	7.7%	2
5	15.4%	4
10	<b>42.3%</b>	<b>11</b>
20	26.9%	7
30	3.8%	1
40	0.0%	0
50	3.8%	1
>50	0.0%	0

answered question	26
skipped question	0

**6. Please indicate the type of background and training of the PRIMARY site information management personnel. "Formal training" means coursework or seminar certification etc.** [Create Chart](#) [Download](#)

	High	Medium	Low	Response Count
Formal training or education in Computer Science	19.2% (5)	46.2% (12)	34.6% (9)	26
Formal training or education in Data Management	8.0% (2)	28.0% (7)	64.0% (16)	25
Formal training or education in use of Database software	8.0% (2)	40.0% (10)	52.0% (13)	25
Formal Ecological/Biological Science training or education	53.8% (14)	30.8% (8)	15.4% (4)	26
Formal GIS/Remote Sensing training or education	23.1% (6)	34.6% (9)	42.3% (11)	26
Formal Physical Science training or education (Geology, Meteorology, Oceanography, etc.)	24.0% (6)	52.0% (13)	24.0% (6)	25
Formal Social Science training or education	8.0% (2)	16.0% (4)	76.0% (19)	25
Formal Education training or education	12.0% (3)	8.0% (2)	80.0% (20)	25
		Other (please specify)		6
		<a href="#">Hide Responses</a>		

1. Formal training in statistics	Thu, Jan 27, 2011 9:40 AM	<a href="#">Find...</a>
2. Mathematics: Combinatory	Tue, Jan 18, 2011 3:10 PM	<a href="#">Find...</a>
3. acquired IM education: high	Tue, Jan 4, 2011 12:49 PM	<a href="#">Find...</a>
4. acquired IM: high	Tue, Jan 4, 2011 11:56 AM	<a href="#">Find...</a>
5. Worked in Information Technology ~18 years	Thu, Dec 23, 2010 9:41 AM	<a href="#">Find...</a>
6. statistical/simulation modeling	Wed, Dec 22, 2010 9:37 AM	<a href="#">Find...</a>

answered question	26
skipped question	0

**7. Please RANK the following information management task areas, in order of effort devoted to each activity at your site. You can enter more than one identical rating, but don't rate them all the same. That would not be useful information.** [Create Chart](#) [Download](#)

	Very High	High	Medium	Low	None	Rating Average	Response Count
General site data management including database development, data entry, providing data, archive and backup.	61.5% (16)	34.6% (9)	3.8% (1)	0.0% (0)	0.0% (0)	1.42	26
				7.7%	0.0%		

<b>Web design, maintenance and update.</b>	26.9% (7)	15.4% (4)	<b>50.0% (13)</b>	(2)	(0)	2.38	26	
<b>Software development (writing scripts and code).</b>	12.0% (3)	<b>32.0% (8)</b>	24.0% (6)	28.0% (7)	4.0% (1)	2.80	25	
<b>Metadata generation - creation, update, registration, harvesting.</b>	26.9% (7)	30.8% (8)	<b>34.6% (9)</b>	7.7% (2)	0.0% (0)	2.23	26	
<b>Site system administration - site-based hardware and network support.</b>	8.0% (2)	12.0% (3)	36.0% (9)	<b>40.0% (10)</b>	4.0% (1)	3.20	25	
<b>User SYSTEM support - software and hardware help and support for site personnel.</b>	11.5% (3)	11.5% (3)	19.2% (5)	<b>50.0% (13)</b>	7.7% (2)	3.31	26	
<b>Site administration tasks (filling out paperwork, ordering supplies, doing hardware inventory etc).</b>	0.0% (0)	11.5% (3)	15.4% (4)	<b>53.8% (14)</b>	19.2% (5)	3.81	26	
<b>Network Level Information Management</b>	7.7% (2)	7.7% (2)	<b>53.8% (14)</b>	30.8% (8)	0.0% (0)	3.08	26	
<b>Network Level Information Management Coordination (committee activity etc)</b>	15.4% (4)	19.2% (5)	<b>34.6% (9)</b>	19.2% (5)	11.5% (3)	2.92	26	
<b>Other tasks not included in the above.</b>	7.1% (1)	<b>28.6% (4)</b>	<b>28.6% (4)</b>	<b>28.6% (4)</b>	7.1% (1)	3.00	14	
Other (please specify)								10
<a href="#">Hide Responses</a>								

1. Data development, cross site research	Thu, Jan 27, 2011 9:40 AM	<a href="#">Find...</a>
2. Laboratory support	Wed, Jan 26, 2011 6:33 PM	<a href="#">Find...</a>
3. planning, organization, documentation	Tue, Jan 25, 2011 11:45 AM	<a href="#">Find...</a>
4. Planning, organization	Thu, Jan 20, 2011 4:23 PM	<a href="#">Find...</a>
5. Project Management	Wed, Jan 19, 2011 12:51 PM	<a href="#">Find...</a>
6. Schoolyard participant and graduate students training and assistance, participation in international workshops	Tue, Jan 18, 2011 3:10 PM	<a href="#">Find...</a>
7. External engagement/consulting/tech transfer	Tue, Jan 18, 2011 12:24 PM	<a href="#">Find...</a>
8. Coordination with lorganizaiton and other projects: medium	Tue, Jan 4, 2011 12:49 PM	<a href="#">Find...</a>
9. Coordination with local organization and other projects: medium	Tue, Jan 4, 2011 11:56 AM	<a href="#">Find...</a>
10. GIS/mapping	Wed, Dec 22, 2010 9:37 AM	<a href="#">Find...</a>

<b>answered question</b>	<b>26</b>
<b>skipped question</b>	<b>0</b>

**8. What type of IM training would be most useful at your site? Please rank the following in order of need or importance. Yes, you are allowed to have more than one "Most Important" or any other category - just do NOT list all of them the same, as that is not useful information.**

[Create Chart](#)   [Download](#)

	1- Most Important	2- Very Important	3- Important	4- Somewhat Important	5- Not Important	Rating Average	Response Count
<b>Database design or management systems.</b>	8.0% (2)	16.0% (4)	<b>40.0% (10)</b>	28.0% (7)	8.0% (2)	3.12	25

<b>Metadata, EML and EML implementation.</b>	24.0% (6)	12.0% (3)	<b>28.0% (7)</b>	20.0% (5)	16.0% (4)	2.92	25
<b>Spatial data/GIS.</b>	3.8% (1)	19.2% (5)	<b>38.5% (10)</b>	23.1% (6)	15.4% (4)	3.27	26
<b>Use of advance technology including new sensors.</b>	12.0% (3)	<b>32.0% (8)</b>	16.0% (4)	28.0% (7)	12.0% (3)	2.96	25
<b>Wireless data transmission.</b>	12.0% (3)	<b>28.0% (7)</b>	16.0% (4)	24.0% (6)	20.0% (5)	3.12	25
<b>Programming and script writing.</b>	19.2% (5)	19.2% (5)	<b>30.8% (8)</b>	26.9% (7)	3.8% (1)	2.77	26
<b>Standards</b>	8.3% (2)	25.0% (6)	<b>33.3% (8)</b>	25.0% (6)	8.3% (2)	3.00	24
<b>Personnel management.</b>	0.0% (0)	4.0% (1)	8.0% (2)	<b>48.0% (12)</b>	40.0% (10)	4.24	25
<b>Proposal writing and preparation.</b>	0.0% (0)	4.0% (1)	16.0% (4)	<b>48.0% (12)</b>	32.0% (8)	4.08	25
<b>Scientific publication.</b>	0.0% (0)	8.0% (2)	16.0% (4)	32.0% (8)	<b>44.0% (11)</b>	4.12	25
<b>Web design, implementation.</b>	19.2% (5)	<b>26.9% (7)</b>	15.4% (4)	<b>26.9% (7)</b>	11.5% (3)	2.85	26
<b>Data Curation</b>	8.0% (2)	28.0% (7)	<b>44.0% (11)</b>	16.0% (4)	4.0% (1)	2.80	25
Other (please specify)							4
<a href="#">Hide Responses</a>							

1.	Server virtualization (XenServer, VMware) - Most Important	Wed, Jan 26, 2011 11:15 AM	<a href="#">Find...</a>
2.	IM conceptual foundations, standard-macking activities, and federation mechanisms	Tue, Jan 4, 2011 12:49 PM	<a href="#">Find...</a>
3.	IM conceptual foundations, classification, and communication as well as federation mechanisms and user studies	Tue, Jan 4, 2011 11:56 AM	<a href="#">Find...</a>
4.	Web services	Wed, Dec 22, 2010 9:31 AM	<a href="#">Find...</a>

answered question	26
skipped question	0

**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 (internally or via outside commercial services) for its own use? Rank the approximate use of services provided by the Host Institution by your Site.**

	High	Medium	Low	None	Rating Average	Response Count
<b>Email (use the home institution's email system rather than one supported primarily by the site)</b>	<b>88.5% (23)</b>	7.7% (2)	0.0% (0)	3.8% (1)	1.19	26
<b>Database (use the institution's database system)</b>	11.5% (3)	0.0% (0)	30.8% (8)	<b>57.7% (15)</b>	3.35	26
<b>Web servers (use the institutions web servers)</b>	19.2% (5)	15.4% (4)	19.2% (5)	<b>46.2% (12)</b>	2.92	26
<b>Computational Infrastructure (use the institution's computational infrastructure for</b>	15.4% (4)	11.5% (3)	<b>50.0%</b>	23.1%	2.81	26

analysis, statistics, modeling, etc. rather than the site's own infrastructure)			(13)	(6)		
Network infrastructure support is provided by the home institution.	84.6% (22)	7.7% (2)	7.7% (2)	0.0% (0)	1.23	26
System administration is provided by the home institution	15.4% (4)	34.6% (9)	30.8% (8)	19.2% (5)	2.54	26
Technical support is provided by the institution	15.4% (4)	26.9% (7)	53.8% (14)	3.8% (1)	2.46	26
Institutional (site) software licensing or educational discounts	46.2% (12)	50.0% (13)	3.8% (1)	0.0% (0)	1.58	26
					answered question	26
					skipped question	0

10. Does your site use/rent/lease on-line commercial Email Web or Data/Database services for normal site operations?						<a href="#">Create Chart</a>	<a href="#">Download</a>
	High	Medium	Low	None	Rating Average	Response Count	
Commercial Email (Gmail, Yahoo, Hotmail etc.) is used for Site communication	19.2% (5)	3.8% (1)	11.5% (3)	65.4% (17)	3.23	26	
Commercial Website services are used for Site Web services	0.0% (0)	3.8% (1)	19.2% (5)	76.9% (20)	3.73	26	
Commercial data or database services (including cloud services such as Google or others) is used for site data	0.0% (0)	11.5% (3)	11.5% (3)	76.9% (20)	3.65	26	
Other (please specify)						3	
<a href="#">Hide Responses</a>							

1. Online collaboration and planning tools such as Google Groups, Google Docs, Doodle Meeting Planner... Mon, Jan 31, 2011 10:26 AM [Find...](#)
2. UGA contracts w/ Microsoft for email. Their choice, not ours. Thu, Jan 27, 2011 9:40 AM [Find...](#)
3. an offsite server is rented Tue, Jan 18, 2011 7:22 AM [Find...](#)

					answered question	26
					skipped question	0

11. What type of collaboration tools are used at your site (select all that apply, and enter any other not listed here)?			<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count		
Regularly scheduled meetings.	80.8%	21		
Special Events (retreats etc)	57.7%	15		
Reading Groups/seminars	46.2%	12		
Informal Meetings	84.6%	22		



Design Sessions	42.3%	11
Forums	15.4%	4
Common filesharing (such as a shared file system for users at the site).	84.6%	22
Email list servers.	76.9%	20
Telephone conferencing	<b>88.5%</b>	<b>23</b>
Video conferencing.	84.6%	22
Web tools for scheduling equipment, meeting rooms etc.	50.0%	13
Web Calendars.	61.5%	16
IM Chat (please include what type in "other" below).	23.1%	6
Collaborative web tools such as Wiki.	38.5%	10
Other (please describe) <a href="#">Hide Responses</a>	23.1%	6

1. IM Chat: Yahoo instant messenger.	Mon, Jan 31, 2011 10:26 AM	<a href="#">Find...</a>
2. Desktop sharing	Wed, Jan 26, 2011 11:15 AM	<a href="#">Find...</a>
3. IRC	Tue, Jan 25, 2011 11:45 AM	<a href="#">Find...</a>
4. IRC	Thu, Jan 20, 2011 4:23 PM	<a href="#">Find...</a>
5. Skype audio/video chat	Tue, Jan 18, 2011 12:24 PM	<a href="#">Find...</a>
6. Skype	Sun, Jan 9, 2011 9:29 PM	<a href="#">Find...</a>

answered question	26
skipped question	0

12. What type of collaborative cyberinfrastructure / information management collaborations or partnerships (outside of LTER) is your site engaged in?	<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count
Collaboration with high performance computer centers (SDSC, NCSA, etc).	19.2%	5
Collaboration with the National Center for Ecological Analysis and Synthesis (NCEAS).	26.9%	7
Collaboration with Forest Service or USDA	34.6%	9
Collaboration with the National Atmospheric Deposition Program (NADP)	<b>42.3%</b>	<b>11</b>
Collaboration with NASA archive centers.	3.8%	1
Collaboration with NASA researchers and research centers.	15.4%	4
Collaboration with NOAA programs.	26.9%	7

Collaboration with local or national USGS centers such as NBII.	34.6%	9
Collaboration with the Ameriflux or Fluxnet Network.	34.6%	9
Collaboration with Libraries	38.5%	10
Collaboration with Local Government Agencies	38.5%	10
<b>Other (please describe)</b> <a href="#">Hide Responses</a>	<b>42.3%</b>	<b>11</b>

1. EPA	Mon, Jan 31, 2011 10:26 AM	<a href="#">Find...</a>
2. Local NGO collaboration	Thu, Jan 27, 2011 9:40 AM	<a href="#">Find...</a>
3. Pojects: EcoTrends, P2ERLS, Landscape Toolbox, Ecological Site Descriptions, Database for Inventory, Monitoring, and Assessment, National Rangelands Inventory - Conservation Effects Assessment Project  Agencies: Nature Conservancy, BLM. Department of Defense, Department of the Interior, Natural Resources Conservation Service, Agricultural Research Service	Wed, Jan 26, 2011 11:15 AM	<a href="#">Find...</a>
4. NEON, Eddy Flux tower in PIE watershed, Harvard Forest Northeast Domain	Fri, Jan 21, 2011 7:49 AM	<a href="#">Find...</a>
5. CREON	Thu, Jan 20, 2011 4:23 PM	<a href="#">Find...</a>
6. Local non-profits Local grazing coops	Wed, Jan 19, 2011 12:51 PM	<a href="#">Find...</a>
7. Oregon State University College of Forestry EPA	Fri, Jan 14, 2011 4:52 PM	<a href="#">Find...</a>
8. science studies program	Tue, Jan 4, 2011 12:49 PM	<a href="#">Find...</a>
9. Science Studies Program	Tue, Jan 4, 2011 11:56 AM	<a href="#">Find...</a>
10. critical zone observatories NEON	Wed, Dec 22, 2010 9:37 AM	<a href="#">Find...</a>
11. East-Asia Pacific ILTER	Wed, Dec 22, 2010 9:31 AM	<a href="#">Find...</a>

25 responses per page

<b>answered question</b>	<b>26</b>
<b>skipped question</b>	<b>0</b>

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**PAGE: SITE METADATA AND EML IMPLEMENTATION.**

13. What percent of all site data has been corresponding EML metadata of any (i.e. even identification) level?	<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count
0	0.0%	0
10	0.0%	0
20	0.0%	0
30	0.0%	0
40	0.0%	0

50	3.8%	1
60	0.0%	0
70	0.0%	0
80	23.1%	6
90	<b>42.3%</b>	<b>11</b>
100	30.8%	8
<b>answered question</b>		<b>26</b>
<b>skipped question</b>		<b>0</b>

14. What percent of all site data has corresponding "Rich" EML metadata to level V or so-called "integration" level ?			<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count		
0	3.8%	1		
10	7.7%	2		
20	0.0%	0		
30	7.7%	2		
40	3.8%	1		
50	0.0%	0		
60	3.8%	1		
70	19.2%	5		
80	<b>23.1%</b>	<b>6</b>		
90	19.2%	5		
100	11.5%	3		
<b>answered question</b>		<b>26</b>		
<b>skipped question</b>		<b>0</b>		

15. Of the known site GIS, data (this includes remote sensing data), what percentage of those data have corresponding EML metadata (at any level)?			<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count		
0	<b>29.2%</b>	<b>7</b>		
10	8.3%	2		
20	12.5%	3		
30	12.5%	3		
40	0.0%	0		

50	4.2%	1
60	0.0%	0
70	4.2%	1
80	8.3%	2
90	8.3%	2
100	12.5%	3
answered question		24
skipped question		2

16. Of the known site remote sensing data only (i.e. not including the other site GIS data), what percentage of that total has corresponding EML metadata (at any level)? [Create Chart](#) [Download](#)

	Response Percent	Response Count
0	52.0%	13
10	8.0%	2
20	0.0%	0
30	4.0%	1
40	0.0%	0
50	4.0%	1
60	0.0%	0
70	4.0%	1
80	4.0%	1
90	12.0%	3
100	12.0%	3
answered question		25
skipped question		1

17. About what percent of LTER site metadata are registered/harvested in the LTER Metacat? [Create Chart](#) [Download](#)

	Response Percent	Response Count
0	0.0%	0
10	3.8%	1
20	3.8%	1
30	3.8%	1

40	0.0%	0
50	7.7%	2
60	0.0%	0
70	3.8%	1
80	7.7%	2
90	19.2%	5
100	50.0%	13
<b>answered question</b>		<b>26</b>
<b>skipped question</b>		<b>0</b>

18. 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? <a href="#">Create Chart</a> <a href="#">Download</a>		
	Response Percent	Response Count
0	25.0%	6
10	4.2%	1
20	0.0%	0
30	0.0%	0
40	0.0%	0
50	0.0%	0
60	0.0%	0
70	4.2%	1
80	12.5%	3
90	12.5%	3
100	41.7%	10
<b>answered question</b>		<b>24</b>
<b>skipped question</b>		<b>2</b>

19. What percentage of your Site data are purposely not registered in Metacat (referring to question 17) due to proprietary/confidentiality or other reasons? <a href="#">Create Chart</a> <a href="#">Download</a>		
	Response Percent	Response Count
0	56.0%	14
1	4.0%	1
2.5	12.0%	3
5	8.0%	2

10	16.0%	4
20	4.0%	1
30	0.0%	0
40	0.0%	0
50	0.0%	0
>50	0.0%	0
Comments or type of data not (or not yet) intended to be registered in Metacat: <a href="#">Hide Responses</a>		9

1.	Some GIS data cannot be redistributed	Wed, Jan 26, 2011 9:43 PM	<a href="#">Find...</a>
2.	Generally some data will not be formalized for public use and is thusly not set up with EML	Wed, Jan 26, 2011 2:56 PM	<a href="#">Find...</a>
3.	archeological and sensitive social science data are not included in site or network data catalogs	Wed, Jan 26, 2011 11:18 AM	<a href="#">Find...</a>
4.	Type II EML in metacat, just not the data tables	Thu, Jan 20, 2011 4:26 PM	<a href="#">Find...</a>
5.	Location data of species of concern	Wed, Jan 19, 2011 1:00 PM	<a href="#">Find...</a>
6.	We are actively updating our IS to support new GIS/RS and genomics data we are now collecting, which will be available through EML/Metacat later this year	Tue, Jan 18, 2011 12:28 PM	<a href="#">Find...</a>
7.	unfinalized data	Tue, Jan 4, 2011 11:58 AM	<a href="#">Find...</a>
8.	These answers are based solely on published datasets as opposed to "working" data	Thu, Dec 23, 2010 9:47 AM	<a href="#">Find...</a>
9.	Draft metadata not sent, most GIS and RS does not originate with us, so is not really "our" data.	Wed, Dec 22, 2010 9:35 AM	<a href="#">Find...</a>

answered question	25
skipped question	1

[Show this Page Only](#)

#### PAGE: OVERVIEW OF SITE INFORMATION MANAGEMENT AND DATA CURATION

20. Which of the following functionalities does your site Information Management System currently provide Locally (vs Network level):	<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count
Data Catalog	92.3%	24
Data Repository	96.2%	25
Data Management interfaces	69.2%	18
Data Query interfaces	69.2%	18
Data Plot	34.6%	9
Data Download	96.2%	25
Web services	50.0%	13

Personnel	84.6%	22
Bibliography	96.2%	25
	answered question	26
	skipped question	0

**21. Which of the following functionalities does your site Information Management System currently provide via the LTER NIS (including here, SiteDB, the LTER Personnel Database and other resources):** [Create Chart](#) [Download](#)

	Response Percent	Response Count
Data Catalog	77.8%	14
Data Repository	27.8%	5
Data Management interfaces	5.6%	1
Data Query interfaces	33.3%	6
Data Plot	22.2%	4
Data Download	44.4%	8
Web services	11.1%	2
	answered question	18
	skipped question	8

**22. What type of quality assurance and quality control (QA/QC) procedure does your site follow for site data? Select all that apply.** [Create Chart](#) [Download](#)

	Response Percent	Response Count
The site has documented specific QA/QC procedures of its own.	76.9%	20
The site follows specific QA/QC guidelines (e.g. EPA, USGS etc).	23.1%	6
Researchers are responsible for QA/QC of their own data.	84.6%	22
QA/QC guidelines are followed for MOST site data.	53.8%	14
QA/QC guidelines are not necessarily followed for all site data (such as student thesis data).	42.3%	11
Other (please describe) <a href="#">Hide Responses</a>	11.5%	3

- |   |                           |                         |
|---|---------------------------|-------------------------|
| 1. Highly dependent on type of data and corresponding PI.   | Wed, Jan 26, 2011 3:01 PM | <a href="#">Find...</a> |
| 2. QC is done by the IM staff when in charge of entering the data, but the owner is responsible for the scientific quality of the data. | Tue, Jan 18, 2011 3:21 PM | <a href="#">Find...</a> |
| 3. All data is QA'd for consistency with metadata   | Fri, Jan 14, 2011 4:56 PM | <a href="#">Find...</a> |

answered question 26  
skipped question 0

**23. Please ESTIMATE the primary users of your data with #1 being the most frequent user of your site data.** [Create Chart](#) [Download](#)

	1- High Use	2- Moderate Use	3- Little Use	4- No use	Rating Average	Response Count
Site principal investigator(s)	73.1% (19)	26.9% (7)	0.0% (0)	0.0% (0)	1.27	26
Site researchers	69.2% (18)	30.8% (8)	0.0% (0)	0.0% (0)	1.31	26
Site technicians and staff.	33.3% (8)	33.3% (8)	33.3% (8)	0.0% (0)	2.00	24
Site students	53.8% (14)	42.3% (11)	3.8% (1)	0.0% (0)	1.50	26
Outside (non-site) researchers and students	16.0% (4)	84.0% (21)	0.0% (0)	0.0% (0)	1.84	25
Government agencies, NSF, NASA etc.	0.0% (0)	43.5% (10)	56.5% (13)	0.0% (0)	2.57	23
Policy makers, congress, government	4.3% (1)	13.0% (3)	69.6% (16)	13.0% (3)	2.91	23
Litigators, lawyers etc.	0.0% (0)	0.0% (0)	50.0% (11)	50.0% (11)	3.50	22
General public	8.0% (2)	28.0% (7)	60.0% (15)	4.0% (1)	2.60	25
Other (please specify) <a href="#">Hide Responses</a>						1

1. GK-16 educators and students, Natural Resource Mgrs Wed, Jan 19, 2011 1:18 PM [Find...](#)

answered question 26  
skipped question 0

**24. How does your site track users of data? Select any that apply.** [Create Chart](#) [Download](#)

	Response Percent	Response Count
Users are tracked from information collected through data use policy forms.	80.0%	20
Users are logged by ftp or other internet tracking tools.	56.0%	14
Users are known since they must contact information managers for access to data.	20.0%	5
Users are known who must contact researchers	28.0%	7



for access to data.		
<b>Other (please specify)</b> <a href="#">Hide Responses</a>	28.0%	7

1. We capture the ip address of the user	Mon, Jan 31, 2011 11:22 AM	<a href="#">Find...</a>
2. LTER DAS	Mon, Jan 31, 2011 8:05 AM	<a href="#">Find...</a>
3. Notifications prior to data download are logged	Wed, Jan 26, 2011 11:25 AM	<a href="#">Find...</a>
4. personal communication	Tue, Jan 25, 2011 11:55 AM	<a href="#">Find...</a>
5. Email correspondence for recent data not yet on-line	Fri, Jan 21, 2011 8:02 AM	<a href="#">Find...</a>
6. personal communication	Thu, Jan 20, 2011 4:38 PM	<a href="#">Find...</a>
7. web tracking tools	Tue, Jan 18, 2011 3:21 PM	<a href="#">Find...</a>

<b>answered question</b>	<b>25</b>
<b>skipped question</b>	<b>1</b>

**25. How are data generally distributed at your site? Select ALL that apply.** [Create Chart](#) [Download](#)

	Response Percent	Response Count
<b>MOST site data are online and publicly available and most data access does not require help from the site information manager(s).</b>	96.2%	25
<b>MOST site data are online and publicly available but most requests still come to the information manager for what is available and how to access it.</b>	19.2%	5
<b>SOME site data are online although most data requests are filled by an information manager.</b>	0.0%	0
<b>Online data are limited and almost all site data are provided to requesters by an information manager.</b>	0.0%	0
<b>A "data license" or data use agreement is required for data use.</b>	57.7%	15
<b>A "data license" or data use agreement exists, but is voluntary.</b>	30.8%	8
<b>Response to data access are tracked or recorded.</b>	53.8%	14
<b>A procedure exists for access to sensitive or proprietary data - i.e. sensitive data is cataloged and a method to access the data exists.</b>	23.1%	6
<b>Other (please specify)</b> <a href="#">Hide Responses</a>	11.5%	3

1. The data license is in process of changing from voluntary to a requirement.	Wed, Jan 26, 2011 3:01 PM	<a href="#">Find...</a>
2. personnel go directly to fileserver	Tue, Jan 25, 2011 11:55 AM	<a href="#">Find...</a>
3. site personnel go directly to fileserver	Thu, Jan 20, 2011 4:38 PM	<a href="#">Find...</a>

answered question 26  
skipped question 0

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

[Create Chart](#)

[Download](#)

	Response Percent	Response Count
The Site website provides direct access to MOST Site data.	100.0%	26
Site data are available though a general "ftp" mechanism.	15.4%	4
Site data are generally available through a Web service mechanism	26.9%	7
Site data are generally managed as "flat files" in an organized file system, not in a database.	61.5%	16
Site data are managed through a database system such as MySQL or Oracle.	57.7%	15
Site data are managed through a specialized system, software or scripts developed at the site.	42.3%	11
Other (please specify) <a href="#">Hide Responses</a>	15.4%	4

- |   |                            |                         |
|---|----------------------------|-------------------------|
| 1. Data via ftp are available upon request. Some parties get long term access to this. For the most part it is discouraged due to the complications that can accompany ftp usage. | Mon, Jan 31, 2011 11:22 AM | <a href="#">Find...</a> |
| 2. FTP upon request for large data files, LiDar, aerial imagery   | Fri, Jan 21, 2011 8:02 AM  | <a href="#">Find...</a> |
| 3. Our information system takes a component approach using database, specialized applications/interfaces as well as flat files rather than a single general approach.             | Tue, Jan 4, 2011 12:52 PM  | <a href="#">Find...</a> |
| 4. Our information systems takes a component approach using database, specialized app as well as flat files - rather than a single general approach.                              | Tue, Jan 4, 2011 12:00 PM  | <a href="#">Find...</a> |

answered question 26  
skipped question 0

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

[Create Chart](#)

[Download](#)

	Response Percent	Response Count
Most site GIS/spatial data are provided online.	65.2%	15
Most site GIS/spatial data have corresponding EML metadata.	39.1%	9
Most original (raw) remote sensing data are available online.	17.4%	4
Internet Web/map services are used at the site for DISPLAY and SEARCH of GIS data.	34.8%	8

Internet Web/map services are used at the site for ACCESS to GIS data.	21.7%	5
	<b>answered question</b>	<b>23</b>
	<b>skipped question</b>	<b>3</b>

<b>28. How does your site handle genomic data in your data catalog?</b>	<a href="#">Download</a>
	<b>Response Count</b>
<a href="#">Hide Responses</a>	21

1. We do not have genomic data in our catalog.	Mon, Jan 31, 2011 11:22 AM	<a href="#">Find...</a>
2. This is a question we are currently struggling with. We do not have a set procedure at this time.	Thu, Jan 27, 2011 6:29 AM	<a href="#">Find...</a>
3. We don't have any, outside of Mirada data.	Wed, Jan 26, 2011 9:47 PM	<a href="#">Find...</a>
4. we have none available	Wed, Jan 26, 2011 6:39 PM	<a href="#">Find...</a>
5. External service providers handle genomic and chemical abstract data and analysis summaries will be documented and included in the site information management system. Raw data will be stored by the service providers (CAMERA, GenBank)	Wed, Jan 26, 2011 11:25 AM	<a href="#">Find...</a>
6. investigating methods	Tue, Jan 25, 2011 11:55 AM	<a href="#">Find...</a>
7. Links to Gen Bank	Fri, Jan 21, 2011 8:02 AM	<a href="#">Find...</a>
8. investigative methods	Thu, Jan 20, 2011 4:38 PM	<a href="#">Find...</a>
9. We don't have any	Wed, Jan 19, 2011 1:18 PM	<a href="#">Find...</a>
10. We have partnered with the Sapelo Island Microbial Observatory for curation of 16s rDNA sequence data, and are currently extending our data catalog to support distribution of discipline-specific file formats (e.g. fasta files, vendor-specific xml) for other GCE investigators producing genomic/genetic data	Tue, Jan 18, 2011 12:34 PM	<a href="#">Find...</a>
11. currently handles separately through the Microbial Observatory website as zip downloads	Tue, Jan 18, 2011 7:29 AM	<a href="#">Find...</a>
12. NA	Mon, Jan 17, 2011 2:27 PM	<a href="#">Find...</a>
13. we don't have a special system. It is handled the same as tabular data.	Fri, Jan 14, 2011 4:56 PM	<a href="#">Find...</a>
14. None listed in catalog; researchers submit to Genbank	Wed, Jan 12, 2011 3:08 PM	<a href="#">Find...</a>
15. We provide a link to the data in Genbank	Sun, Jan 9, 2011 9:36 PM	<a href="#">Find...</a>
16. Not yet addressed	Tue, Jan 4, 2011 12:52 PM	<a href="#">Find...</a>
17. Not yet.	Tue, Jan 4, 2011 12:00 PM	<a href="#">Find...</a>
18. We don't have genomic data yet.	Wed, Dec 29, 2010 5:46 AM	<a href="#">Find...</a>
19. We have no genomic data at this time-December 2010	Thu, Dec 23, 2010 12:33 PM	<a href="#">Find...</a>
20. no genomic data at this point.	Wed, Dec 22, 2010 9:53 AM	<a href="#">Find...</a>
21. We don't really have any. However, if we did, it would be managed as a "blob" that would be documented in EML.	Wed, Dec 22, 2010 9:39 AM	<a href="#">Find...</a>
	25 responses per page	

	<b>answered question</b>	<b>21</b>
	<b>skipped question</b>	<b>5</b>

[Show this Page Only](#)

## PAGE: 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).** [Create Chart](#) [Download](#)

	Response Percent	Response Count
Meteorological data are manually collected by observing static instrument readings or from the nearest NOAA, state climatologist or National Climate data center sources.	30.8%	8
Meteorological data are downloaded from the nearest NOAA or National Climate data center.	46.2%	12
Meteorological data are automatically collected by a digital hard-wired system.	38.5%	10
Meteorological data are collected by automated data logger systems, and later downloaded.	<b>84.6%</b>	<b>22</b>
Meteorological data are collected by automated phone (i.e. cell phone) system.	7.7%	2
Meteorological data are collected by automated radio or wireless transmission and collected automatically.	53.8%	14
Other (please specify) <a href="#">Hide Responses</a>	7.7%	2

- |  |                           |                         |
|--|---------------------------|-------------------------|
| 1. data turbine  | Thu, Jan 20, 2011 4:41 PM | <a href="#">Find...</a> |
| 2. Some precipitation and temperature data are collected on paper charts and typed in by hand. | Wed, Dec 22, 2010 9:57 AM | <a href="#">Find...</a> |

answered question	<b>26</b>
skipped question	<b>0</b>

**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.** [Create Chart](#) [Download](#)

	Response Percent	Response Count
The site "boundary" is defined in spatial coordinates, for instance, a "shapefile" exists describing the site location.	88.5%	23
The primary research site locations are maintained in a file or database.	<b>100.0%</b>	<b>26</b>
The primary research site locations are publicly available on the site webpage.	73.1%	19
The primary research site locations are available on the NETWORK Webpage (i.e. stored in SiteDB).	30.8%	8
High precision control points or benchmarks are established for reference at the LTER site.	46.2%	12

The LTER site is mapped with a consistent grid of GPS locations.	23.1%	6
Most research data are generally stored with GPS location information.	61.5%	16
Research data are generally collected with GPS location information accurate to at least 15m.	61.5%	16
Research data are generally collected with GPS location information with sub-meter accuracy.	11.5%	3
GPS location information is required for all research data.	30.8%	8
Other (please describe) <a href="#">Hide Responses</a>	11.5%	3

1. This is going through an upgrade. Old data does exist for many of our locations though it is not entirely accurate and not necessarily tied to the project. Wed, Jan 26, 2011 3:03 PM [Find...](#)
2. Accuracy depends upon the research, sub-2cm accuracy required for digital elevation modeling in marshes Fri, Jan 21, 2011 8:07 AM [Find...](#)
3. LUQ is in the process of preparing a research site database including GPS location information and other attributes. Tue, Jan 18, 2011 3:24 PM [Find...](#)

answered question	26
skipped question	0

**31. What type of GPS equipment is available for use at the site (select all that apply).** [Create Chart](#) [Download](#)

	Response Percent	Response Count
Very High precision DGPS equipment (i.e. cm accuracy) is available for use at the site.	28.0%	7
Standard High precision DGPS equipment (i.e. 1-3m accuracy) is available for use at the site.	60.0%	15
Conventional GPS receivers including those with Wide Area Augmentation System (WAAS) enabled (i.e. about 5m accuracy) GPS receivers are available for use at the site.	60.0%	15
The site does not maintain GPS receivers for research use.	4.0%	1
Other (please specify) <a href="#">Hide Responses</a>	4.0%	1

1. high precision DGPS available via borrowing agreement with UNAVCO Fri, Jan 21, 2011 8:07 AM [Find...](#)

answered question	25
skipped question	1

**32. 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).** [Create Chart](#) [Download](#)

	Response Percent	Response Count
<b>Yes</b>	57.7%	15
<b>No</b>	42.3%	11
<b>If present, please describe :</b> <a href="#">Hide Responses</a>	15.4%	4

1. Yes and expanding...	Wed, Jan 26, 2011 3:03 PM	<a href="#">Find...</a>
2. hydrology, climate, and rain gauge network	Wed, Jan 26, 2011 11:27 AM	<a href="#">Find...</a>
3. 802.11 for oceanographic bouy	Thu, Jan 20, 2011 4:41 PM	<a href="#">Find...</a>
4. Data are sent to the headquarters building via the wireless network, but not yet directly to the website.	Wed, Dec 29, 2010 5:50 AM	<a href="#">Find...</a>

<b>answered question</b>	<b>26</b>
<b>skipped question</b>	<b>0</b>

[Show this Page Only](#)

**PAGE: LTER SITE COMPUTATIONAL INFRASTRUCTURE:**

**33. What PRIMARY Server architecture is used for SITE data management? (select all that apply)** [Create Chart](#) [Download](#)

	Response Percent	Response Count
<b>Netware</b>	0.0%	0
<b>MS Windows-based systems</b>	61.5%	16
<b>Mac-based systems (OS X, etc)</b>	0.0%	0
<b>Linux-based systems</b>	46.2%	12
<b>Other Unix (SunOS etc) based systems</b>	19.2%	5
<b>Other (please describe)</b> <a href="#">Hide Responses</a>	7.7%	2

1. Citrix XenServer Hypervisors	Wed, Jan 26, 2011 11:32 AM	<a href="#">Find...</a>
2. OSU LAN	Fri, Jan 14, 2011 5:01 PM	<a href="#">Find...</a>

<b>answered question</b>	<b>26</b>
<b>skipped question</b>	<b>0</b>

**34. What general archive and backup procedures are used at your site? (select all that apply)** [Create Chart](#) [Download](#)

	Response Percent	Response Count
<b>Active site data are maintained on fault-tolerant</b>	80.8%	21

<b>(i.e. RAID) systems.</b>		
Site data are backed-up for disaster recovery.	88.5%	23
Site data are backed-up to maintain a regular archive or "versions" of data.	69.2%	18
Site data are backed-up using off-site backup facilities.	65.4%	17
The site uses a documented archive and backup plan.	53.8%	14
Other (please describe <a href="#">Hide Responses</a> )	7.7%	2

1. back up systems in revision	Tue, Jan 25, 2011 12:12 PM	<a href="#">Find...</a>
2. back up systems in revision	Thu, Jan 20, 2011 4:50 PM	<a href="#">Find...</a>

<b>answered question</b>	<b>26</b>
<b>skipped question</b>	<b>0</b>

**35. About what TOTAL data storage capacity does your site maintain for general LTER related data including local (on-line) backup capacity and other storage?** [Create Chart](#) [Download](#)

	Response Percent	Response Count
less than 1gb	0.0%	0
1gb	0.0%	0
5gb	0.0%	0
10gb	4.0%	1
50gb	4.0%	1
100gb	4.0%	1
500gb	24.0%	6
1tb	8.0%	2
2.5tb	16.0%	4
5tb	20.0%	5
10tb	16.0%	4
50tb	4.0%	1
100tb	0.0%	0
500tb	0.0%	0
1pb	0.0%	0
>1pb	0.0%	0
<b>answered question</b>		<b>25</b>

skipped question 1

**36. 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.** [Create Chart](#) [Download](#)

	Response Percent	Response Count
Internet link is greater than 10 GB/s	21.7%	5
Internet link is 10Gb/s	13.0%	3
Internet link is 1Gb/s	34.8%	8
Internet link is 100mb/s	30.4%	7
Internet link is 10mb/s	0.0%	0
Internet link is less than 10mb/s (i.e 1.54mb/s)	0.0%	0
There is no internet connection	0.0%	0
	<b>answered question</b>	<b>23</b>
	<b>skipped question</b>	<b>3</b>

**37. Wireless internet is available for researchers at the home institution.** [Create Chart](#) [Download](#)

	Response Percent	Response Count
Yes	100.0%	26
No	0.0%	0
	<b>answered question</b>	<b>26</b>
	<b>skipped question</b>	<b>0</b>

**38. What is the speed of the primary link to the Internet at the Research SITE ?** [Create Chart](#) [Download](#)

	Response Percent	Response Count
Internet link is greater than 1 GB/s.	8.0%	2
Internet link is 1Gb/s.	24.0%	6
Internet link is 100mb/s	24.0%	6
Internet link is 10mb/s	4.0%	1
Internet link is less than 10mb/s	28.0%	7
There is no internet connection.	12.0%	3
	<b>answered question</b>	<b>25</b>
	<b>skipped question</b>	<b>1</b>



39. Wireless internet is available for researchers at the site.	<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count
Yes	84.6%	22
No	15.4%	4
	answered question	26
	skipped question	0

40. What type of conferencing capability is commonly used at the site's home institution(s)? Select all that apply.	<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count
Local (on-site) phone conferencing.	100.0%	25
Voice over Internet (such as Skype).	92.0%	23
Web Conferencing video services (such as GoToMeeting, WebEx, Dimdim, etc.)	52.0%	13
H.323 Internet video conferencing (such as Polycom/Tandberg video).	84.0%	21
Satellite video conferencing.	4.0%	1
Specialized video conferencing (such as ACCESS Grid) is available - the site has direct access or maintains an ACCESS Grid or similar system.	8.0%	2
Other (please describe) <a href="#">Hide Responses</a>	4.0%	1

1. Secure web meeting service, no voice but desktop/document sharing Fri, Jan 21, 2011 8:20 AM [Find...](#)

	answered question	25
	skipped question	1

41. What type of conferencing capability is available and used at the research SITE (select all that apply)?	<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count
Local (on-site) phone conferencing.	83.3%	20
Voice over Internet (such as Skype).	83.3%	20
Web Conferencing video services (such as GoToMeeting, WebEx, Dimdim, etc.)	41.7%	10
H.323 Internet video conferencing (such as Polycom/Tandberg video).	41.7%	10

Satellite video conferencing.	0.0%	0
Specialized video conferencing (such as ACCESS Grid) is available - the site has direct access or maintains an ACCESS Grid or similar system.	0.0%	0
Other (please specify) <a href="#">Hide Responses</a>	8.3%	2

- 1. ship to shore phones Tue, Jan 4, 2011 12:55 PM [Find...](#)
- 2. ship to shore line Tue, Jan 4, 2011 12:04 PM [Find...](#)

<b>answered question</b>	<b>24</b>
<b>skipped question</b>	<b>2</b>

**42. 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.** [Create Chart](#) [Download](#)

	Response Percent	Response Count
SQL Server	26.9%	7
Oracle	19.2%	5
MySQL	<b>53.8%</b>	<b>14</b>
eXist	15.4%	4
MiniSQL	3.8%	1
Foxpro/Visual Foxpro	7.7%	2
Ingres	0.0%	0
Postgres	15.4%	4
Paradox	3.8%	1
Microsoft Access	15.4%	4
DB2	0.0%	0
Custom, site-designed database system (i.e. local scripts)	19.2%	5
None, no database system is used for site data	3.8%	1
Other (please describe) <a href="#">Hide Responses</a>	3.8%	1

- 1. Drupal CMS development is using MySQL Fri, Jan 21, 2011 8:20 AM [Find...](#)

<b>answered question</b>	<b>26</b>
<b>skipped question</b>	<b>0</b>

**43. What type of tools or suite of tools are used at your site ? Select any that apply, unless used rarely.**
[Create Chart](#)
[Download](#)

	Response Percent	Response Count
Microsoft Office Tools (Excel, etc.)	96.2%	25
Matlab	69.2%	18
Splus	11.5%	3
SAS	73.1%	19
SYSTAT	19.2%	5
SigmaStat	19.2%	5
SigmaPlot	65.4%	17
SPSS	23.1%	6
STATA	7.7%	2
Mathematica	11.5%	3
R	76.9%	20
Specialized/in-house (also select "Other" and please describe)	0.0%	0
Other (please specify/describe) <a href="#">Hide Responses</a>	11.5%	3

1. Data Junction	Wed, Jan 26, 2011 11:32 AM	<a href="#">Find...</a>
2. IDL, ENVI, Ocean Data view	Tue, Jan 25, 2011 12:12 PM	<a href="#">Find...</a>
3. ocean data view	Thu, Jan 20, 2011 4:50 PM	<a href="#">Find...</a>

answered question	26
skipped question	0

**44. Please select or enter the MODELS or MODEL TOOLS you know that are in use at your site.**
[Create Chart](#)
[Download](#)

	Response Percent	Response Count
BASIN	5.0%	1
CATS	0.0%	0
CENTURY	30.0%	6
COVER	0.0%	0
GARP	0.0%	0
GEM	10.0%	2
TOPMODEL	25.0%	5

ECOTONE	5.0%	1
SOILWAT	10.0%	2
GEMRAMS	5.0%	1
STREAMPLAN	0.0%	0
VORTEX	0.0%	0
STREAMES	0.0%	0
DESERT	0.0%	0
GDAY	0.0%	0
PLM	0.0%	0
DAYCENT	20.0%	4
STEPPE	5.0%	1
MM5	5.0%	1
UrbanSim	5.0%	1
ALFRESCO	5.0%	1
TEM	10.0%	2
STMTEM	5.0%	1
PALSELM	0.0%	0
NYMAN	0.0%	0
HYMAN	0.0%	0
PNET	15.0%	3
RAMS	5.0%	1
DYRESM	0.0%	0
MBL-MEL	15.0%	3
MBL-GEM	10.0%	2
REMM	0.0%	0
RIVMOD	5.0%	1
ROMS	15.0%	3
SAGE	0.0%	0
SAVANNA	0.0%	0
Other (please specify) <a href="#">Hide Responses</a>	60.0%	12

1. I'm unaware of the specifics

Wed, Jan 26, 2011 3:07 PM

[Find...](#)

2.	Hec-ras	Tue, Jan 25, 2011 12:12 PM	<a href="#">Find...</a>
3.	FVCOM HSPF	Fri, Jan 21, 2011 8:20 AM	<a href="#">Find...</a>
4.	GSM1 DEB Ecosym Ecopath	Thu, Jan 20, 2011 4:50 PM	<a href="#">Find...</a>
5.	EPA WASP ( <a href="http://www.epa.gov/athens/wwqtsc/html/wasp.htm">http://www.epa.gov/athens/wwqtsc/html/wasp.htm</a> ); SqueezeBox (local estuary salinity regime box model)	Tue, Jan 18, 2011 12:42 PM	<a href="#">Find...</a>
6.	PRISM, standcarb, landsum, Gthm-mel, landcarb, lpj-dgvm, froclim, M&C stream ecosystem.	Fri, Jan 14, 2011 5:01 PM	<a href="#">Find...</a>
7.	local biological population models; network analysis	Tue, Jan 4, 2011 12:55 PM	<a href="#">Find...</a>
8.	Regional spectral model (RSM); local biological population models; local biological nutrient/energy models	Tue, Jan 4, 2011 12:04 PM	<a href="#">Find...</a>
9.	BROOK90, SNTHERM, FASST	Wed, Dec 29, 2010 6:03 AM	<a href="#">Find...</a>
10.	ELM, ATLSS	Thu, Dec 23, 2010 12:40 PM	<a href="#">Find...</a>
11.	We use a large variety of physically-based circulation models developed by our PIs.	Wed, Dec 22, 2010 10:19 AM	<a href="#">Find...</a>
12.	MTNCLIM, SnowModel	Wed, Dec 22, 2010 10:19 AM	<a href="#">Find...</a>

25 responses per page

answered question	20
skipped question	6

45. What type of GIS software tools are used at your site ? Select any that apply, unless used rarely.			<a href="#">Create Chart</a>	<a href="#">Download</a>
	Response Percent	Response Count		
None	3.8%	1		
ArcGIS, ArcView, ArcServer etc.	88.5%	23		
Erdas Imagine	50.0%	13		
IDRISI	11.5%	3		
eCognition	11.5%	3		
ENVI (but not generally specialized IDL scripts)	26.9%	7		
IDL	15.4%	4		
GRASS	3.8%	1		
ERMapper	0.0%	0		
Custom designed (please also select other and describe)	0.0%	0		
Other (please specify or describe) <a href="#">Hide Responses</a>	26.9%	7		

1.	geoserver	Thu, Jan 27, 2011 10:27 AM	<a href="#">Find...</a>
2.	Mapwindow, Postgis	Wed, Jan 26, 2011 9:53 PM	<a href="#">Find...</a>

3.	We use IDL and ENVI but for spacial analysis but not for GIS	Tue, Jan 25, 2011 12:12 PM	<a href="#">Find...</a>
4.	IDL and ENVI are not GIS software but we do use them	Thu, Jan 20, 2011 4:50 PM	<a href="#">Find...</a>
5.	NASA software	Tue, Jan 4, 2011 12:55 PM	<a href="#">Find...</a>
6.	NASA software; Windows Image Manager (WIM)	Tue, Jan 4, 2011 12:04 PM	<a href="#">Find...</a>
7.	Geoserver Mapserver	Wed, Dec 22, 2010 10:19 AM	<a href="#">Find...</a>

answered question	26
skipped question	0

[Show this Page Only](#)

PAGE: GENERAL SITE CYBERINFRASTRUCTURE NEEDS

46. 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 order of importance (1 is most important) that your site would require. Yes, you can select more than one "Most Important" but do not rate everything the same, as that does not provide useful information.

[Create Chart](#) [Download](#)

	1- Most Important	2- Very Important	3- Important	4- Somewhat Important	5- Not important at all	Rating Average	Response Count
Faster/better internet connection speed (wireless etc) in the field.	4.0% (1)	<b>36.0% (9)</b>	16.0% (4)	28.0% (7)	16.0% (4)	3.16	25
Faster/better internet connection speed at the field site.	20.0% (5)	<b>32.0% (8)</b>	20.0% (5)	12.0% (3)	16.0% (4)	2.72	25
Faster/better internet connection speed from the home institution to the internet	0.0% (0)	20.0% (5)	20.0% (5)	28.0% (7)	<b>32.0% (8)</b>	3.72	25
Better, faster software for creating/editing/manipulating metadata	26.9% (7)	<b>30.8% (8)</b>	26.9% (7)	15.4% (4)	0.0% (0)	2.31	26
Better, faster software for managing data	12.0% (3)	<b>40.0% (10)</b>	36.0% (9)	8.0% (2)	4.0% (1)	2.52	25
Better collaboration mechanisms	0.0% (0)	13.0% (3)	30.4% (7)	<b>43.5% (10)</b>	13.0% (3)	3.57	23
Training for information management personnel	19.2% (5)	30.8% (8)	<b>34.6% (9)</b>	11.5% (3)	3.8% (1)	2.50	26
Faster or more servers	8.0% (2)	<b>40.0% (10)</b>	24.0% (6)	24.0% (6)	4.0% (1)	2.76	25
More disk space for data storage at the home institution	8.0% (2)	<b>36.0% (9)</b>	28.0% (7)	24.0% (6)	4.0% (1)	2.80	25
More disk space for data storage at the field site	3.8% (1)	19.2% (5)	<b>46.2% (12)</b>	19.2% (5)	11.5% (3)	3.15	26
More information management personnel	<b>76.9% (20)</b>	19.2% (5)	3.8% (1)	0.0% (0)	0.0% (0)	1.27	26
Other (please specify)							2
<a href="#">Hide Responses</a>							

1.	Upgrade LAN at home institution (GB to 10GB), replace out of service network	Wed, Jan 26, 2011 11:48 AM	<a href="#">Find...</a>
----	--	----------------------------	-------------------------

equipment (firewall, routers, layer 3 switch, and upgrade LAN at field station		
2. change of methods how the data are supplied to the IM personnel from the field techs	Tue, Jan 18, 2011 7:45 AM	<a href="#">Find...</a>

answered question	26
skipped question	0

#### 47. What specific barriers exist or what is needed for better data use or management at your Site ? [Download Site ?](#)

	Response Count
<a href="#">Hide Responses</a>	26

1. Researchers should be more willing to submit data. Even small ad hoc datasets are useful.	Mon, Jan 31, 2011 11:58 AM	<a href="#">Find...</a>
2. more funding for personnel	Mon, Jan 31, 2011 8:38 AM	<a href="#">Find...</a>
3. training for users in databases, and simple script programming.	Thu, Jan 27, 2011 10:32 AM	<a href="#">Find...</a>
4. Better training for researches and grad students on the hos and whys of metadata generation. Also need a comprehensive plan for GIS data and metadata.	Thu, Jan 27, 2011 7:15 AM	<a href="#">Find...</a>
5. More funding & training for satellite based sensor data transmission.	Wed, Jan 26, 2011 9:58 PM	<a href="#">Find...</a>
6. more training for im	Wed, Jan 26, 2011 6:47 PM	<a href="#">Find...</a>
7. Ultimately this is about time. With one IM the time to manage data, learn about new tech or tools, etc... this is the limiting factor. Specialists in the field of Db, Web, Etc. could help offset this, but as is... its time.	Wed, Jan 26, 2011 3:13 PM	<a href="#">Find...</a>
8. 1. Need additional IM professional personnel 2. Need to automate data collection, QA/QC, and database population of data 3. Need to automate metadata generation 4. Need to automate data and tool integration (site with external collaborators, agencies, and organizations) 5. Need to develop tools for data access and analysis	Wed, Jan 26, 2011 11:48 AM	<a href="#">Find...</a>
9. 1. Established efficient procedures 2. access to people with highly-specialized skills for short periods of time, or on a part-time basis	Tue, Jan 25, 2011 12:20 PM	<a href="#">Find...</a>
10. More Site IM personnel with script writing capabilities or at least access to someone at network level	Fri, Jan 21, 2011 8:32 AM	<a href="#">Find...</a>
11. establishing efficient procedures collaborative metadata model	Thu, Jan 20, 2011 4:59 PM	<a href="#">Find...</a>
12. Site termination (Note we are answering all questions with this in mind).	Wed, Jan 19, 2011 1:48 PM	<a href="#">Find...</a>
13. Time for the information manager to learn and actually do the job	Tue, Jan 18, 2011 3:42 PM	<a href="#">Find...</a>
14. More participation of PIs, technicians and students in the data management process, including metadata creation and QA/QC	Tue, Jan 18, 2011 12:59 PM	<a href="#">Find...</a>
15. Data management still involves a lot of manual data manipulation between the field and the database	Tue, Jan 18, 2011 7:45 AM	<a href="#">Find...</a>
16. More support for information management personnel	Mon, Jan 17, 2011 2:46 PM	<a href="#">Find...</a>
17. personnel time, technical expertise (scripting), real-time QA of streaming data (but we are working on this)	Fri, Jan 14, 2011 5:08 PM	<a href="#">Find...</a>
18. Additional staff time and training..... More timely data submissions by PI's and students. Need more quality added products (summary data /specific query). Ability to QA/QC in a timely manner.	Wed, Jan 12, 2011 3:17 PM	<a href="#">Find...</a>
19. A programmer is needed to help manage the huge volume of wireless data being	Sun, Jan 9, 2011 9:50 PM	<a href="#">Find...</a>

	collected. There is never enough time for the IM to do all the coding needed to QA/QC these data and offer the visualizations of the data that the scientists want.		
20.	Weak on approaches to process making and standard making activities.	Tue, Jan 4, 2011 1:27 PM	<a href="#">Find...</a>
21.	Barriers include lack of resources and integration organizationally	Tue, Jan 4, 2011 12:10 PM	<a href="#">Find...</a>
22.	We need more personnel	Wed, Dec 29, 2010 6:22 AM	<a href="#">Find...</a>
23.	Having to act as system administrator to all workstations and servers as well as the Oracle DBA takes valuable time away from my data management tasks. It would be a tremendous help to have support personnel.	Thu, Dec 23, 2010 12:47 PM	<a href="#">Find...</a>
24.	Researcher education re metadata responsibilities and more IM resources	Thu, Dec 23, 2010 10:06 AM	<a href="#">Find...</a>
25.	storage capacity of servers, website development, database, and programming expertise	Wed, Dec 22, 2010 10:41 AM	<a href="#">Find...</a>
26.	Training of researchers and students on best practices for managing data would be a big help. Data coming from automated sensors is relatively easy to deal with, but data stored in highly esoteric spreadsheets is not! We would also like to do a better job on providing data in a variety of forms (graphics, files in different formats), or better yet, as "value added/standardized", data for use by researchers.	Wed, Dec 22, 2010 10:38 AM	<a href="#">Find...</a>
50 responses per page			

<b>answered question</b>	<b>26</b>
<b>skipped question</b>	<b>0</b>

**48. 47. What specific barriers exist or what is needed for better interaction at the Network level?** [Download](#)

<b>Response Count</b>
26

1.	As with any group this size it's sometimes difficult to communicate.	Mon, Jan 31, 2011 11:58 AM	<a href="#">Find...</a>
2.	more funding for personnel	Mon, Jan 31, 2011 8:38 AM	<a href="#">Find...</a>
3.	it would be nice if we could push the bibliography and personel data to the network.	Thu, Jan 27, 2011 10:32 AM	<a href="#">Find...</a>
4.	Time and resources for individuals to travel and meet face to face and work on specific projects.	Thu, Jan 27, 2011 7:15 AM	<a href="#">Find...</a>
5.	A less top top down and centralized approach to lno/site based interactions.	Wed, Jan 26, 2011 9:58 PM	<a href="#">Find...</a>
6.	none	Wed, Jan 26, 2011 6:47 PM	<a href="#">Find...</a>
7.	Again, time. Again, for me, interaction at the network level is engaging and welcome. Finding time away from other duties is the issue.	Wed, Jan 26, 2011 3:13 PM	<a href="#">Find...</a>
8.	1. Need additional IM professional personnel 2. Need to automate data collection, QA/QC, and database population of data 3. Need to automate metadata generation 4. Need to automate data and tool integration (site with external collaborators, agencies, and organizations) 5. Need to develop tools for data access and analysis	Wed, Jan 26, 2011 11:48 AM	<a href="#">Find...</a>
9.	1. time (fte) at the site-level to follow-through on IM-collaborators 2. lack of common architecture among sites	Tue, Jan 25, 2011 12:20 PM	<a href="#">Find...</a>
10.	More site IM personnel time to respond to Network level requests	Fri, Jan 21, 2011 8:32 AM	<a href="#">Find...</a>
11.	time (fte) to follow-through on IM collaborations. lack of common architecture among sites	Thu, Jan 20, 2011 4:59 PM	<a href="#">Find...</a>
12.	No known process/expectations for transfer of site data to the network under circumstances such as ours (site termination).	Wed, Jan 19, 2011 1:48 PM	<a href="#">Find...</a>



13.	Time and availability of LNO's personnel	Tue, Jan 18, 2011 3:42 PM	<a href="#">Find...</a>
14.	Better support for automated data/information exchange and synchronization between sites and LNO; software/web services developed at the network level that can be leveraged by sites to provide value-added features to site data/metadata systems	Tue, Jan 18, 2011 12:59 PM	<a href="#">Find...</a>
15.	I just don't have an answer for this question	Tue, Jan 18, 2011 7:45 AM	<a href="#">Find...</a>
16.	More support for information management personnel	Mon, Jan 17, 2011 2:46 PM	<a href="#">Find...</a>
17.	Understanding LNO staff assignments and who to contact for help/advice (also with other site IM's)	Fri, Jan 14, 2011 5:08 PM	<a href="#">Find...</a>
18.	Additional staff time and training..... EML enhancements to improve readability at machine level. Personnel with more advanced coding experience.	Wed, Jan 12, 2011 3:17 PM	<a href="#">Find...</a>
19.	Not sure.	Sun, Jan 9, 2011 9:50 PM	<a href="#">Find...</a>
20.	Lack of time to dedicate given amount of local IM work	Tue, Jan 4, 2011 1:27 PM	<a href="#">Find...</a>
21.	Barriers are lack of time to dedicate, amount of local site IM work. Need to continue improving site-network collaboration mechanisms.	Tue, Jan 4, 2011 12:10 PM	<a href="#">Find...</a>
22.	Video conferencing is a major step forward, but the VTC technology needs improvement.	Wed, Dec 29, 2010 6:22 AM	<a href="#">Find...</a>
23.	At this time I feel that the VTCs have helped tremendously as well as having a content management system (Drupal) in place via the IM website. I don't feel like there are any barriers at the Network level at this time.	Thu, Dec 23, 2010 12:47 PM	<a href="#">Find...</a>
24.	More commonality, agreed standards both conceptually and technically	Thu, Dec 23, 2010 10:06 AM	<a href="#">Find...</a>
25.	unknown	Wed, Dec 22, 2010 10:41 AM	<a href="#">Find...</a>
26.	Implementation of web services that allow sites to more directly participate in LNO systems would be a big help. Interaction primarily through web pages is often limiting.	Wed, Dec 22, 2010 10:38 AM	<a href="#">Find...</a>

50 responses per page

<b>answered question</b>	<b>26</b>
<b>skipped question</b>	<b>0</b>

**49. If a large amount of funding were available, say \$100k or more, as a CI supplement or other source, what new/additional technology capabilities (sensors, instrumentation, local infrastructure etc.) would improve SITE-level science (i.e. would advance the science at your Site)?** [Download](#)

	Response Count
<a href="#">Hide Responses</a>	26

1.	Instrumentation, transmitters.	Mon, Jan 31, 2011 11:58 AM	<a href="#">Find...</a>
2.	Equipment alone will not improve site level science. Most new technologies requires an expert or two to go with it. So just adding eddy flux towers or sensor nets will just stretch the available resources. We need people, technicians and scientists to go along with the equipment.	Mon, Jan 31, 2011 8:38 AM	<a href="#">Find...</a>
3.	-	Thu, Jan 27, 2011 10:32 AM	<a href="#">Find...</a>
4.	Wireless infrastructure for transmission of on-site permanent sensors and other long term data generation and collection.	Thu, Jan 27, 2011 7:15 AM	<a href="#">Find...</a>
5.	See question 47.	Wed, Jan 26, 2011 9:58 PM	<a href="#">Find...</a>
6.	unknown	Wed, Jan 26, 2011 6:47 PM	<a href="#">Find...</a>
7.	We've been doing a pretty good job keeping up with this... we could upgrade additional sensors or add to our local infrastructure / computing power, backup system etc.	Wed, Jan 26, 2011 3:13 PM	<a href="#">Find...</a>

8.	Improve data and tool integration and data capacity by developing and integrating existing tools to provide discovery. access, integration, and use (tools) of data across research projects, sites, agencies, and organizations	Wed, Jan 26, 2011 11:48 AM	<a href="#">Find...</a>
9.	Funds of that amount could be used at SBC to design, build and integrate a data system for a CTD carried by an autonomous glider (AUV). Other IT/IM needs include an automated data acquisition system for existing moored sensors, and additional sensor hardware. One-time funding would not cover expected upgrades and maintenance, so such expenditures would need to be planned for as well.	Tue, Jan 25, 2011 12:20 PM	<a href="#">Find...</a>
10.	Need more advanced high speed wireless data telemetry for field sensor data. NOAA/NOS tidal water level gage	Fri, Jan 21, 2011 8:32 AM	<a href="#">Find...</a>
11.	About 10 pressure sensors at 1K each to extend between more expensive physical oceanography moorings. Improve wireless capability of broadcasting oceanographic buoy. More dependable PC wireless network at field station. More dependable power supply and wiring at field station.	Thu, Jan 20, 2011 4:59 PM	<a href="#">Find...</a>
12.	Updating all computing and sensor technology	Wed, Jan 19, 2011 1:48 PM	<a href="#">Find...</a>
13.	Need to consult the answer to this question	Tue, Jan 18, 2011 3:42 PM	<a href="#">Find...</a>
14.	Wireless network improvements at the field site would significantly simplify conducting RTK-GPS surveys and support real-time telemetry for monitoring experiments and instruments in the field.	Tue, Jan 18, 2011 12:59 PM	<a href="#">Find...</a>
15.	Develop methods to reduce manual quality control and documentation of data.	Tue, Jan 18, 2011 7:45 AM	<a href="#">Find...</a>
16.	Sensors, instrumentation, personnel	Mon, Jan 17, 2011 2:46 PM	<a href="#">Find...</a>
17.	Improve internet connection of field station to home institution	Fri, Jan 14, 2011 5:08 PM	<a href="#">Find...</a>
18.	Additional staff time and training..... Additional sonic wind sensors; radio communications equipment, and remote power supply?	Wed, Jan 12, 2011 3:17 PM	<a href="#">Find...</a>
19.	CI to manage/analyze wireless data would be helpful.	Sun, Jan 9, 2011 9:50 PM	<a href="#">Find...</a>
20.	This would fund an IM FTE.	Tue, Jan 4, 2011 1:27 PM	<a href="#">Find...</a>
21.	This would fund an FTE to add stability to a critical mass for a local IM team and an IM Center	Tue, Jan 4, 2011 12:10 PM	<a href="#">Find...</a>
22.	We would continue to develop the wireless sensor network. The lack of personnel is more of an impediment than lack of equipment.	Wed, Dec 29, 2010 6:22 AM	<a href="#">Find...</a>
23.	Computer support, flux tower instrumentation and sensor/wireless network.	Thu, Dec 23, 2010 12:47 PM	<a href="#">Find...</a>
24.	more remote sensing technology to increase data collection resolution	Thu, Dec 23, 2010 10:06 AM	<a href="#">Find...</a>
25.	wireless connectivity from field sites to home institution, recent (since 2008) high-resolution aerial photography, ArcGIS Server software	Wed, Dec 22, 2010 10:41 AM	<a href="#">Find...</a>
26.	It depends on whether it is one-time or continuous funding. For continuous funding, targets would be additional IM personnel, a higher-speed network connection for the field laboratory (currently T1).  If it were one-time funding, we would still bring in some additional personnel to work on IM, primarily in developing workflows for investigator-collected data, purchase additional automated sensor systems, and extend existing wireless networks within the field site to extend their coverage. Increasing automation pays dividends because data from wirelessly-collected automated sensors makes up the majority of our data volume, but requires only a fraction of the time required to manage more eclectic, manually collected, data.	Wed, Dec 22, 2010 10:38 AM	<a href="#">Find...</a>

50 responses per page

answered question	26
skipped question	0

**50. If a large amount of funding were available, say \$100k or more, as a CI supplement or other source, what new/additional technology capabilities (sensors, instrumentation, local infrastructure etc.) would improve NETWORK-level science (i.e. should be implemented across the entire Network)** [Download](#)

## where possible)?

	Response Count
<a href="#">Hide Responses</a>	26

1. GIS servers and software.	Mon, Jan 31, 2011 11:58 AM	<a href="#">Find...</a>
2. Equipment alone will not improve NETWORK level science. Most new technologies requires an expert or two to go with it. So just adding eddy flux towers or sensor nets will just stretch the available resources.	Mon, Jan 31, 2011 8:38 AM	<a href="#">Find...</a>
3. -	Thu, Jan 27, 2011 10:32 AM	<a href="#">Find...</a>
4. I don't know.	Thu, Jan 27, 2011 7:15 AM	<a href="#">Find...</a>
5. Don't know.	Wed, Jan 26, 2011 9:58 PM	<a href="#">Find...</a>
6. unknown	Wed, Jan 26, 2011 6:47 PM	<a href="#">Find...</a>
7. Servers / Dbs to interface at the network level... upgrades and personnel to develop this.	Wed, Jan 26, 2011 3:13 PM	<a href="#">Find...</a>
8. Improve data and tool integration and data capacity by developing and integrating existing tools to provide discovery, access, integration, and use (tools) of data across research projects, sites, agencies, and organizations	Wed, Jan 26, 2011 11:48 AM	<a href="#">Find...</a>
9. Funds of that amount at the site could fund personnel specifically tasked with data integration for network projects. Such tasks include (but are not limited to) mapping between local and Network data attribute definitions, reformatting data or creating workflows for specific Network projects, and synchronizing local tools and databases with those of the NIS.  At the network level: 1) discovery and integration of existing data would be enhanced by a follow-through, or training and adoption, phase for current tools such as Kepler. 2) Extensions and improvements to EML for enhanced integration should be initiated, along with specific funds allocated to sites both for contributions to the schema and for implementation. 3) Common, basic IT services could be initiated at the network level specifically so that site-personnel time could be freed for science-specific IM activities. One of these is consistent and reliable off-site file-system backup.	Tue, Jan 25, 2011 12:20 PM	<a href="#">Find...</a>
10. High quality aerial imagery, hyperspectral with LiDar, flown as chronosequence to get temporal changes in the landscape	Fri, Jan 21, 2011 8:32 AM	<a href="#">Find...</a>
11. Data mining and integration could be enhanced by the enactment phase of existing tools (eg. Kepler), EML extensions and other EML tools.	Thu, Jan 20, 2011 4:59 PM	<a href="#">Find...</a>
12. Updating all computing and sensor technology. See also answer at Q48.	Wed, Jan 19, 2011 1:48 PM	<a href="#">Find...</a>
13. Need to consult the answer to this question. Can I access this again?	Tue, Jan 18, 2011 3:42 PM	<a href="#">Find...</a>
14. Field site network infrastructure is a cross-cutting limitation at many sites, but any ideas on this topic should be generated by science working groups so this is not an ideal forum	Tue, Jan 18, 2011 12:59 PM	<a href="#">Find...</a>
15. Standardization of keywords, attributes, units etc. to make data more accessible.	Tue, Jan 18, 2011 7:45 AM	<a href="#">Find...</a>
16. Sensors, instrumentation, personnel	Mon, Jan 17, 2011 2:46 PM	<a href="#">Find...</a>
17. additional staff to process/document legacy data so we can synthesize across sites,	Fri, Jan 14, 2011 5:08 PM	<a href="#">Find...</a>
18. Additional staff time and training..... EML generation script enhancements Data standardization (vocabulary, units, etc)	Wed, Jan 12, 2011 3:17 PM	<a href="#">Find...</a>
19. I don't know.	Sun, Jan 9, 2011 9:50 PM	<a href="#">Find...</a>
20. Fund an FTE focused on site-network work.	Tue, Jan 4, 2011 1:27 PM	<a href="#">Find...</a>
21. This would fund an FTE to be able to dedicate more time to local-network communication and collaboration. It would enable proactive participation in standard-making activities, i.e. help develop, consume, and propagate web services and community resources (dictionaries, controlled vocabularies, etc)	Tue, Jan 4, 2011 12:10 PM	<a href="#">Find...</a>
22. What about a centralized system for realtime data collection that uses meteor	Wed, Dec 29, 2010 6:22 AM	<a href="#">Find...</a>

burst or similar technology to collect data from individual sites similar to what the SCAN and USGS networks have.

<b>23.</b>	Sensors	Thu, Dec 23, 2010 12:47 PM	<a href="#">Find...</a>
<b>24.</b>	An agreed set of baseline data collected by all sites (environment permitting)	Thu, Dec 23, 2010 10:06 AM	<a href="#">Find...</a>
<b>25.</b>	high resolution lidar for all sites	Wed, Dec 22, 2010 10:41 AM	<a href="#">Find...</a>
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