
LTER Network Bibliography

— Marty Downs —
February 10, 2019

Site bibliography

- **Audiences**
 - Site researchers and students
 - LTER Site reviewers
 - University administrators
 - Resource managers
- **Purposes:**
 - Source of sites' annual reports
 - Context for students and new researchers
 - Ground translational research in evidence
- **Implications for Contents**
 - Maximize productivity
 - Deep background and context
 - Database may be shared with field station or agency

Network bibliography

- **Audiences**
 - Networks/researchers seeking collaborators
 - Sociology of science researchers
 - LTER Program reviewers
- **Purposes**
 - Identify emerging research areas
 - Understand patterns of collaborative and networked relationships
 - Demonstrate the Network's novel contributions to ecological community
- **Implications for Contents**
 - Balance effort-to-maintain with completeness and quality
 - Focus on peer-reviewed or policy-relevant products
 - Clear identification of site relationships

LTER Network Bibliography: Desired Result

- Includes only products that have resulted from LTER funding (directly or indirectly, but not entirely independently)
- Each publication is included only once, with multiple sites and keywords associated, making it relatively simple to identify cross-site papers and collaborations
- Each publication is associated with a DOI, if it exists
- Searchable by site, author, keywords, other?
- (The nature of the relationship to LTER funding is identifiable)

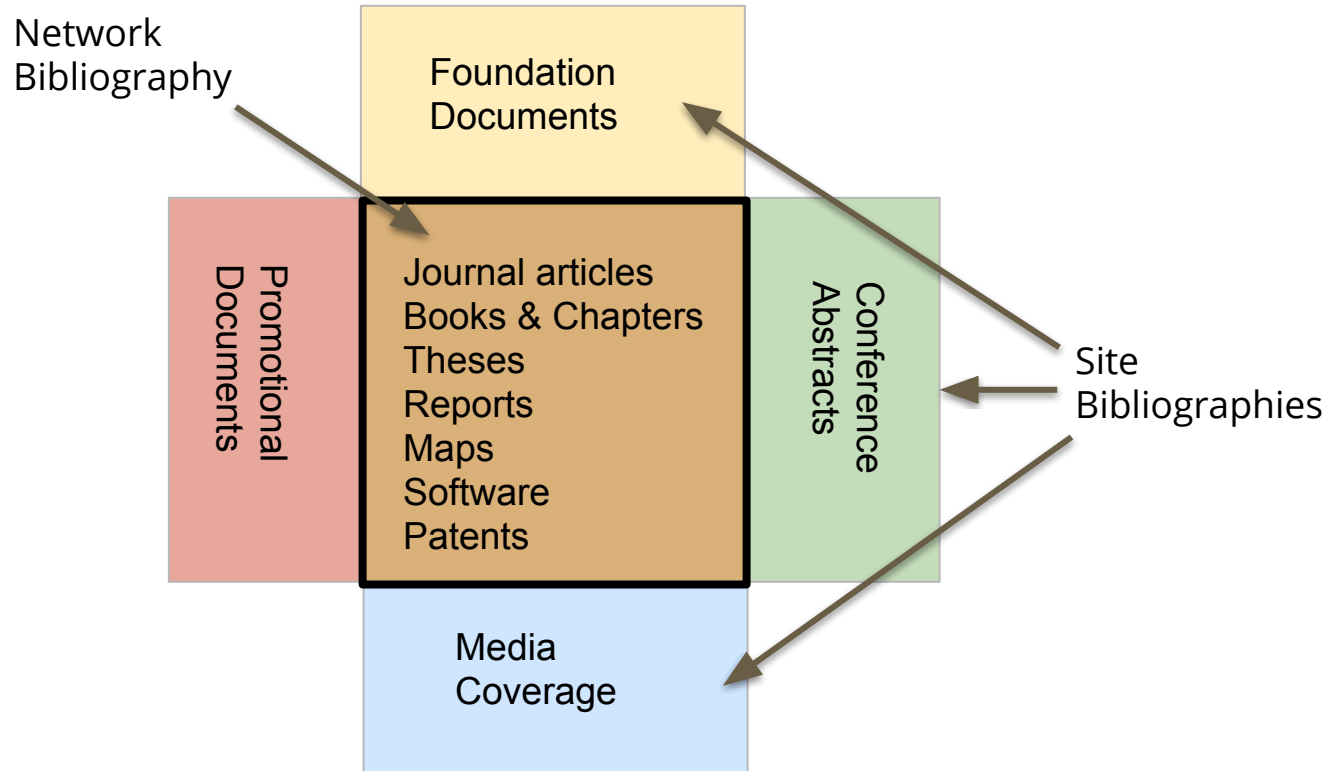
Must-haves

- Consistent identification of sites
 - Includes consistent vocabulary and consistent placement
- Consistent assignment to entry-types
- Consistent rules for inclusion in Network bibliography.
 - This need not affect your site bibliography, as long as you can identify products that should be exported to the Network bibliography
 -

Challenges

- Diversity of reference manager systems
 - Endnote (28%) and custom database (33%) and Zotero (17%) are most common
 - 16 of 18 responding sites said they could easily export BibTex
- Diversity of types
 - All sites include journal articles, books, and theses produced at their site
 - But 7 sites also include documents that pre-date the funding of the site
 - 6 sites include media about the site (but not produced **by** the site)

General Approach



NSF Requires BibTex for annual reports

NSF allowed entry-types	NCO allowed entry-types
article	✓
book	✓
booklet	✓
inbook	✓
incollection	✓
thesis	✓
proceedings	✓
inproceedings	✓
✗	techreport
✗	manual
✗	misc

https://www.research.gov/common/robohelp/public/WebHelp/Project_Reports.htm#project_reports_how_to_add_p_2803

BibTex Format

```
@article{thompson_patrick_l._strength_2018,  
  title = {The strength of the biodiversity-ecosystem function relationship depends on spatial scale},  
  volume = {285},  
  issn = {0962-8452},  
  shorttitle = {The strength of the biodiversity-ecosystem function relationship depends on spatial scale},  
  url = {https://royalsocietypublishing.org/doi/10.1098/rspb.2018.0038},  
  doi = {10.1098/rspb.2018.0038},  
  abstract = {Our understanding of the relationship between biodiversity and ....},  
  number = {1880},  
  urldate = {2019-01-24},  
  journal = {Proceedings of the Royal Society B-Biological Sciences},  
  author = {{Thompson Patrick L.} and {Isbell Forest} and {Loreau Michel} and {O'Connor Mary I.} and {Gonzalez Andrew}},  
  month = jun,  
  year = {2018},  
  itersite= {NSF-LTER-XXX}  
  keywords = {synthesis, NSF-LTER-LNCO},  
  pages = {20180038},  
  annote = {Thompson, Patrick L. Isbell, Forest Loreau, Michel O'Connor, Mary I. Gonzalez, AndrewThompson,  
Patrick/0000-0002-5278-90451471-2954}  
}
```


Past Entries

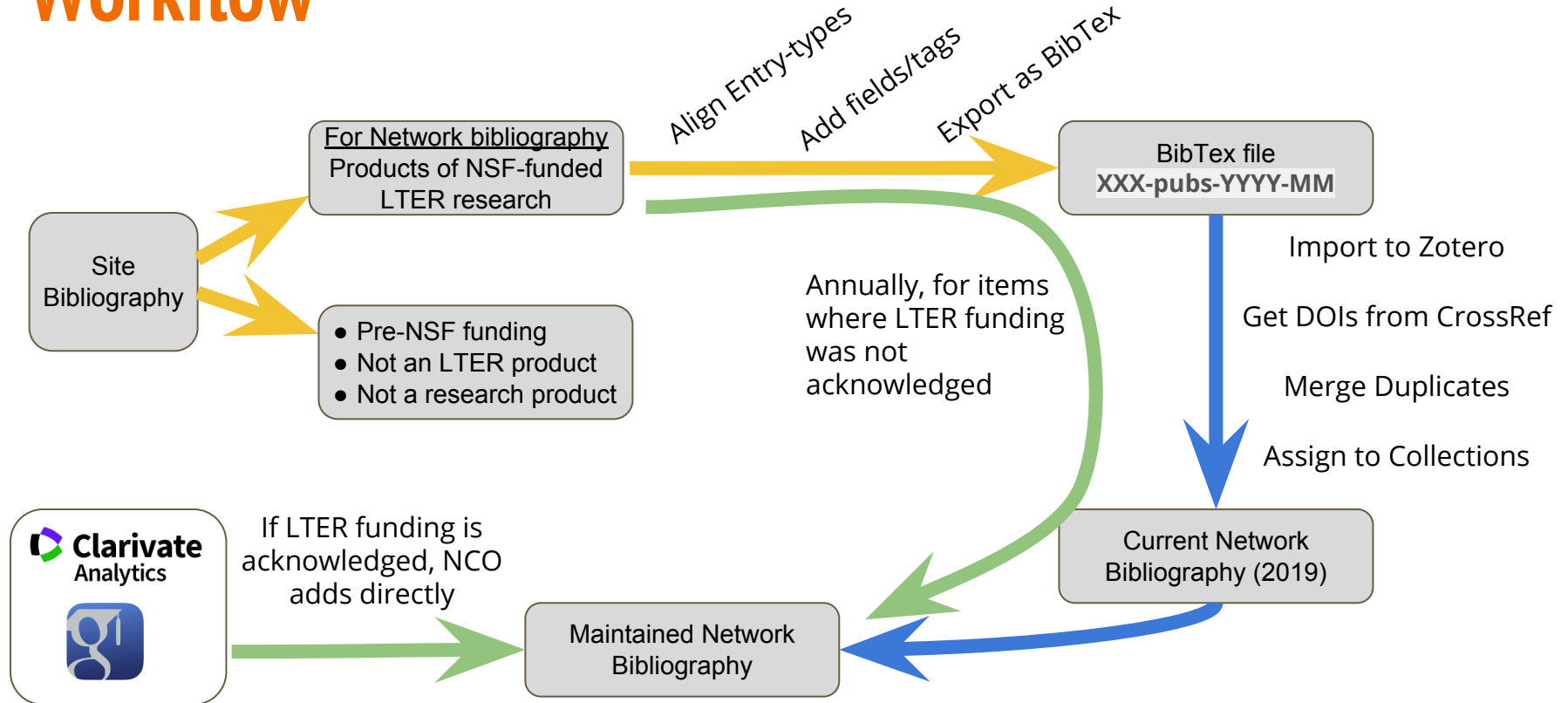
Sites

- Site launch through 2018, if possible, but definitely 2008-2018.
- Exclude foundational documents
- Filter by document type:
 - **Include:** journal articles, books, book chapters, theses, technical reports, peer-reviewed conference papers, software, maps, and patents
 - **Do not include:** newspaper articles, blog posts, conference abstracts
- Add **site tag**/field (NSF-LTER-SSS)
- Export as BibTex, **EndNote**, or Zotero

LNCO

- Merge files
- Run crossref query to retrieve DOI's
(<https://support.crossref.org/hc/en-us/articles/213942866-Author-article-title-query>)
- Merge duplicates based on DOIs
- Review and merge manually articles without DOIs.

Workflow



Acknowledging LTER support

To facilitate finding LTER papers and identifying site associations, the LNCO is recommending the following format for funding acknowledgement:

NSF-LTER-XXX under grant #DIV-YYYYY, where XXX=3-letter site acronym, DIV = the primary NSF funding division (BIO, OCE, OPP, etc) and YYYYY= the grant#.

NSF is used to distinguish National Science Foundation-funded LTER sites from other long-term studies in the US and internationally. Brazil, Korea, and Australia often turn up in searches for “LTER” under funding agency.

The site acronym is used to limit alternative spellings.

Desktop Application

Mac OS desktop application interface for Zotero.

Top Bar: Apple logo, Zotero, File, Edit, Tools, Window, Help. System status: Sun Feb 10 9:53 PM, Marty Downs, battery, network, and other icons.

Left Sidebar:

- Trash
- Group Libraries
 - ▼ LTER Network
 - .LTER Network Office (UCSB)
 - .LTER Network Office (UNM)
 - Andrews Forest LTER
 - Arctic LTER
 - Baltimore Ecosystem Study LTER
 - Beaufort Lagoon Ecosystem LTER
 - Bonanza Creek LTER
 - California Current LTER
 - Cedar Creek LTER**
 - Central Arizona-Phoenix LTER
 - Coweeta LTER
 - Florida Coastal Everglades LTER
 - Georgia Coastal Ecosystems LTER
 - Harvard Forest LTER
 - Hubbard Brook LTER

Below Left Sidebar:

aboveground net primary production
accumulation Alpha diversity
alpha variability beta diversity biodiversity
biodiversity bioenergy bioenergy c/n ratio
C3 GRASS C4 GRASS carbon carbon
carbon and nitrogen cycles climate
coexistence colonization community
comparative analysis competition
competition CoRRE CoRRE data base
costs data base decomposition
determinants dispersal distichlis
disturbance diversity dominant c-4 grass

Main Panel:

Title	Creator	Item Type	Year	Date Added
Sustainable intensification of high-diversity biomass production for opti...	Yang et al.	Journal Arti...	2018	12/5...
Forbs, grasses, and grassland fire behaviour	Wragg et al.	Journal Arti...	2018	1/4/...
Mechanistically derived dispersal kernels explain species-level patterns...	Sullivan et al.	Journal Arti...	2018	12/5...
Asynchrony among local communities stabilises ecosystem function of ...	Wilcox et al.	Journal Arti...	2017	2/6/...
Community phylogenetic structure in Minnesota oak savanna is influenc...	Willis et al.	Journal Arti...	2009	12/2...
Habitat generalists and wetland specialists in the genus /Salix/ vary in t...	Savage et al.	Journal Arti...	2009	12/2...
Reducing Greenhouse Gas Emissions for Climate Stabilization: Framing ...	Olabisi et al.	Journal Arti...	2009	12/4...
Grassland compositional change in relation to the identity of the domin...	Miles and K...	Journal Arti...	2009	12/2...
Species-driven changes in nitrogen cycling can control plant invasions	Laungani a...	Journal Arti...	2009	12/2...
Elevated carbon dioxide concentrations indirectly affect plant fitness b...	Lau and Tif...	Journal Arti...	2009	12/2...
Soil carbon and nitrogen accumulation and vertical distribution across a...	Knops and ...	Journal Arti...	2009	12/2...
Effects of long-term nitrogen additions on soil and litter microbial enzy...	Keeler et al.	Journal Arti...	2009	12/2...
Long-term consequences of plant diversity loss for higher trophic levels	Haddad et ...	Journal Arti...	2009	12/2...
Linkages between plant functional composition, fine root processes an...	Fornara et al.	Journal Arti...	2009	12/2...
Invasion Biology	Davis	Book	2009	12/2...
The merging of community ecology and phylogenetic biology	Cavender...	Journal Arti...	2009	12/2...
Using Phylogenetic, Functional and Trait Diversity to Understand Patter...	Cadotte et ...	Journal Arti...	2009	12/2...
Photochemically induced carbon dioxide production as a mechanism fo...	Brandt et al.	Journal Arti...	2009	12/2...
Cross-site comparison of herbivore impact on nitrogen availability in gr...	Bakker et al.	Journal Arti...	2009	12/6...
Linking above- and belowground responses to global change at commu...	Antonika et...	Journal Arti...	2009	12/2...
Interactive effects of time, CO2, N and diversity on total belowground c...	Adair et al.	Journal Arti...	2009	12/2...
Single pool exponential decomposition models: potential pitfalls in their...	Adair et al.	Journal Arti...	2009	12/2...
High plant species diversity mitigates CO2 and N induced effects on gr...	Strengbom...	Journal Arti...	2008	12/2...
Stoichiometry of soil enzyme activity at global scale	Sinsabaug...	Journal Arti...	2008	12/2...
Biomass and toxicity responses of poison ivy (Toxicodendron radicans) ...	Kentonika e...	Journal Arti...	2008	12/2...
Resource amendments influence density and competitive phenotypes o...	Schlatter e...	Journal Arti...	2008	12/2...
Scaling of respiration to nitrogen in leaves, stems and roots of higher la...	Reich et al.	Journal Arti...	2008	12/2...
Climate warming will reduce growth and survival of Scots pine except in...	Reich and ...	Journal Arti...	2008	12/2...
Modest enhancement of nitrogen conservation via retranslocation in re...	Norris and ...	Journal Arti...	2008	12/2...
Environmental and developmental controls on specific leaf area are littl...	Milla et al.	Journal Arti...	2008	12/2...
Why is plant-growth response to elevated CO2 amplified when water is ...	McMurtrie ...	Journal Arti...	2008	12/2...
Life's metabolic optimum	Makarieva ...	Journal Arti...	2008	12/2...
Why are evergreen leaves so contrary about shade?	Lusk et al.	Journal Arti...	2008	12/2...
Transgenerational effects of global environmental change: Long-term C...	Lau et al.	Journal Arti...	2008	12/2...

Right Panel:

Info Notes Tags Related

Item Type Journal Article

Title Sustainable intensification of high-diversity biomass production for optimal biofuel benefits

▼ Author Yang, Yi

▼ Author Tilman, David

▼ Author Lehman, Clarence

▼ Author Trost, Jared J.

(...) Abstract The potential benefits of biofuels d...

Publication Nature Sustainability

Volume 1

Issue 11

Pages 686-692

Date NOV 2018

Series

Series Title

Series Text

Journal Abbr Nat. Sustain.

Language English

DOI 10.1038/s41893-018-0166-1

ISSN 2398-9629

Short Title

URL

Accessed

Archive

Loc. in Archive

Library Catalog Web of Science

Call Number

Rights

Extra WOS:000450118100015

Date Added 12/5/2018, 4:39:06 PM

Modified 12/5/2018, 4:39:22 PM

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Library

 .LTER Network Office (UCSB) .LTER Network Office (UNM) Andrews Forest LTER Arctic LTER Baltimore Ecosystem Study LTER Beaufort Lagoon Ecosystem LTER Bonanza Creek LTER California Current LTER Cedar Creek LTER Central Arizona-Phoenix LTER Coweeta LTER Florida Coastal Everglades LTER Georgia Coastal Ecosystems LTER Harvard Forest LTER

<input type="checkbox"/>	Title	Creator	Item Type	Year	Publication	Date Modified
<input type="checkbox"/>	 Mechanistically derived dispersal kernels explain species-le...	Sullivan et al.	Journal Article	2018	Ecology	12/5/2018 4:44 PM
<input type="checkbox"/>	 Sustainable intensification of high-diversity biomass produc...	Yang et al.	Journal Article	2018	Nature Sustainability	12/5/2018 4:39 PM
<input type="checkbox"/>	 Forbs, grasses, and grassland fire behaviour	Wragg et al.	Journal Article	2018	Journal of Ecology	1/24/2019 1:33 PM
<input type="checkbox"/>	 Asynchrony among local communities stabilises ecosystem func...	Wilcox et al.	Journal Article	2017	Ecology Letters	2/6/2019 4:15 PM
<input type="checkbox"/>	 Reducing Greenhouse Gas Emissions for Climate Stabilization:...	Olabisi et al.	Journal Article	2009	Environmental Science & Technology	1/24/2019 1:33 PM
<input type="checkbox"/>	 Cross-site comparison of herbivore impact on nitrogen availa...	Bakker et al.	Journal Article	2009	Oikos	2/10/2019 12:13 PM
<input type="checkbox"/>	 Using Phylogenetic, Functional and Trait Diversity to Unders...	Cadotte et al.	Journal Article	2009	PLoS ONE	12/28/2017 12:10 PM
<input type="checkbox"/>	 Species-driven changes in nitrogen cycling can control plant...	Laungani and Knops	Journal Article	2009	Proceedings of the National Academy of Sciences	12/28/2017 12:09 PM
<input type="checkbox"/>	 Single pool exponential decomposition models: potential nitf	Adair et al.	Journal Article	2009	Ecology	12/28/2017 12:09 PM

[Home](#) > [Groups](#) > [LTER Network](#) > Settings

LTER Network: Members Settings

[Group Settings](#) · [Members Settings](#) · [Library Settings](#)

Current Members

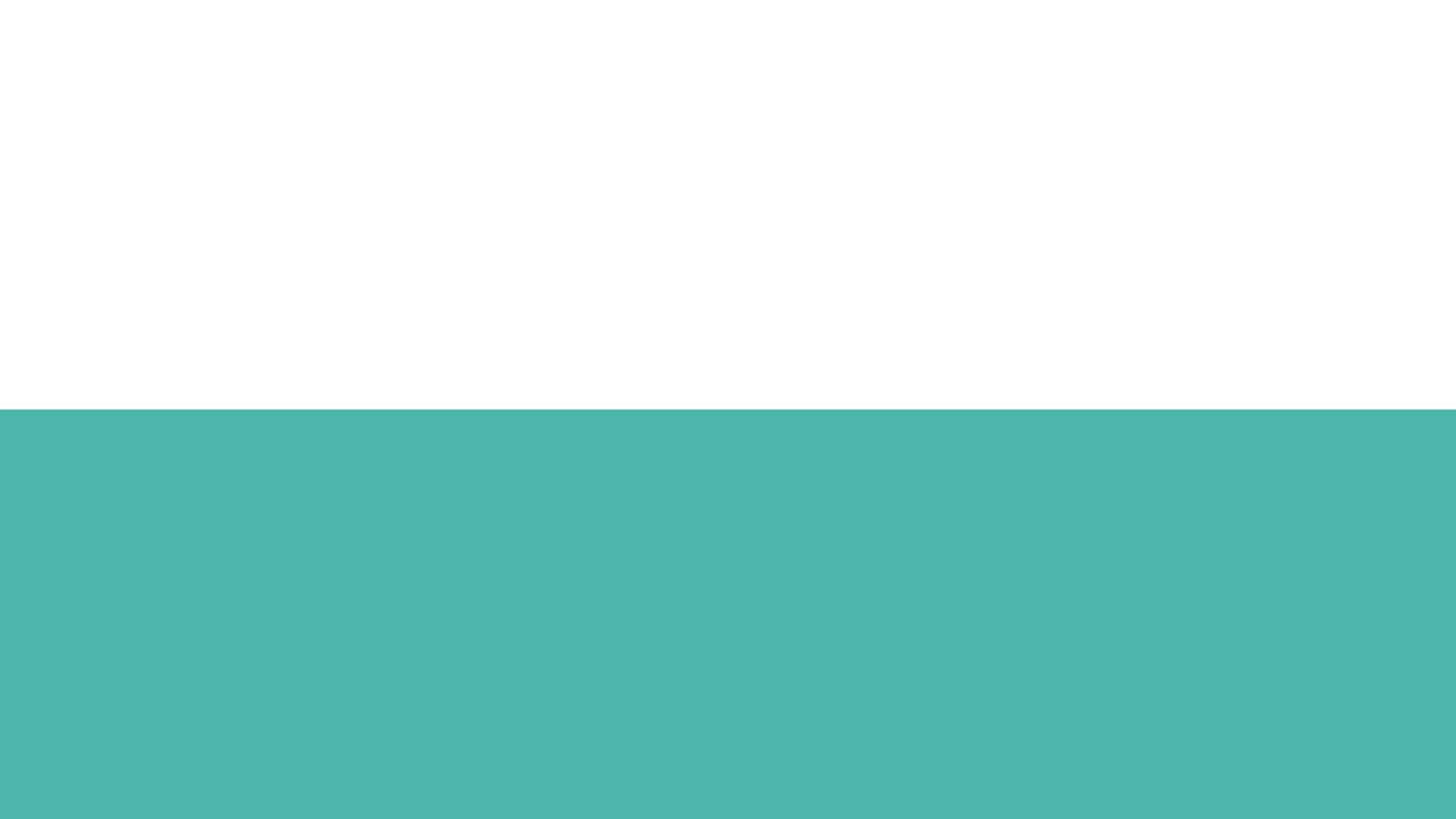
Username	Full Name	Member Since	Role
LTER Network	Marty Downs	2017-12-26 16:05:41	Owner
eldobbins	Elizabeth Dobbins	2018-01-18 23:25:21	Member
lter-nes-info	lter-nes-info	2018-02-22 20:33:51	Member
BLE-IM	Tim Whiteaker	2018-08-02 18:42:51	Admin

[Update Roles](#)

Member Invitations

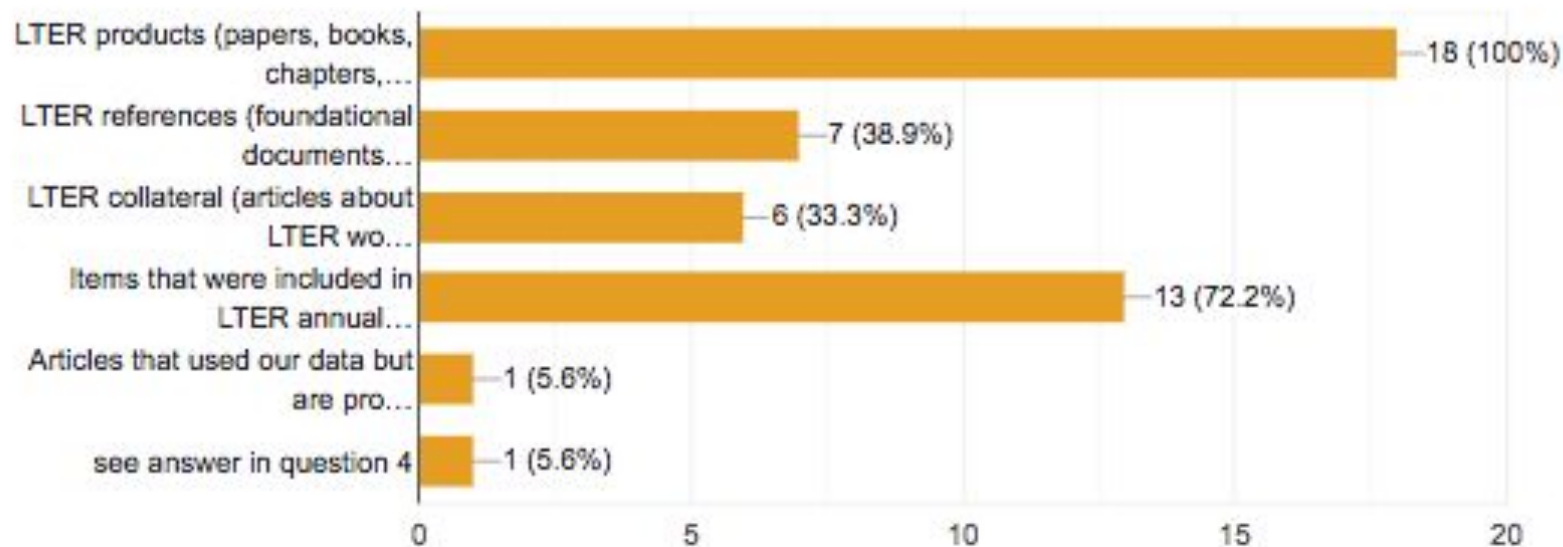
Username	Full Name	Invited On	Cancel Invitation
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Questions?

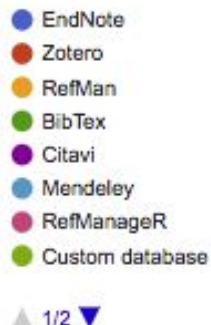
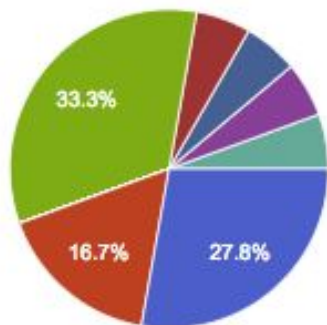


3. What types of materials are included in your site bibliography?

18 responses



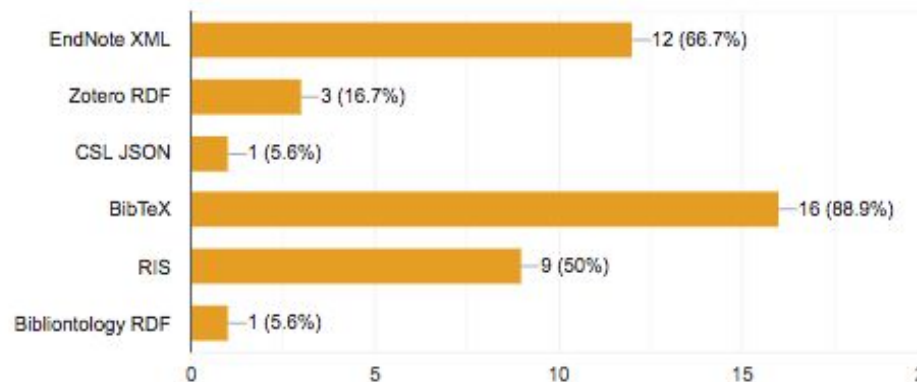
Reference Management System Used



Each type of reference manager has a unique set of fields and customs for adding organizationally-relevant tags or notes.

There are several good options for export formats, but aligning content requires a crosswalk key for each organizational approach.

Easy Export Formats



Biblio DB	BibTex
Journal Article	article
Book	book
Edited Book	book
Electronic Book	book
	incollection
	booklet
Book Chapter	inbook
Book Section	inbook
CHAP	inbook
	incollection
Conference	inproceedings
Conference Paper	inproceedings
Conference Proceedings	inproceedings
	manual
	mastersthesis

Biblio DB	Bibtex
Audiovisual Material	misc
Blog	misc
Computer Program	misc
Electronic Article	misc
Electronic Source	misc
Generic	misc
Magazine Article	misc
Manuscript	misc
Map	misc
Miscellaneous	misc
Newspaper Article	misc
Other	misc
Patent	misc
	phdthesis
	proceedings
	techreport
Government Document	techreport
Government Report	techreport
Report	techreport
	unpublished