

POSTCARDS

US-Dia: Diablo (CA)



The site is on land owned by Lawrence Livermore [More](#)

Thompson Ridge wildfire



Credit: Photo taken by Kristen Honig on June 5, 2013 — at [More](#)

AmeriFlux Annual PI Meeting



I'm reporting on last week's AmeriFlux Annual PI Meeting [More](#)

FEATURED SERVICES

Upload Data

Upload files for flux and BADM data.

[↑ Upload Data](#)

Download Data

See which variables and years are available.

[↓ Download Data](#)

Join the AmeriFlux Community

Join the email list. Create a personalized account.

[Join Community](#)

Register a Tower Site

Register your tower site to upload data for it, etc.

[Register a Site](#)

MORE POSTCARDS

US-Dia: Diablo (CA)

Nov 11 2014



The site is on land owned by Lawrence Livermore National Laboratory (Site 300) and has no grazing or management history since the 1950's except for summer-time burning of selected acres for fire management (not included in the tower



ABOUT AMERIFLUX

The AmeriFlux network is a community of sites and scientists measuring ecosystem carbon, water, and energy fluxes across the Americas, and committed to producing and sharing high quality eddy covariance data. AmeriFlux investigators and modelers work together to generate understanding of terrestrial ecosystems in a changing world.

UPCOMING EVENTS

AmeriFlux Town Hall at AGU Fall 2014—Tuesday

December 16 @ 12:30 pm - 1:30 pm

[Moscone Center](#)

San Francisco

AGU Fall 2014

December 15 – 19

[Moscone Center](#)

San Francisco

Data Management Workshop, led by Bob Cook

January 26, 2015 @ 12:00 pm - 5:00 pm

[To be announced](#)

Washington DC

USEFUL LINKS

[Upcoming Events](#)

[Find People](#)

[Logos and Acknowledgments](#)

Step

The next step shows:

- [Sites menu](#)

POSTCARDS

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Thompson



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- Site Search
- Site List and Pages
- Register an AmeriFlux Site

Google™ Custom Search



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Step

The next step shows:

- [Site Search](#)

Site Search

1 Search Sets Found Set: 199 Sites

Save as Site Set Contact Pls Share Set

Filters

Reset Filters

Return sites with

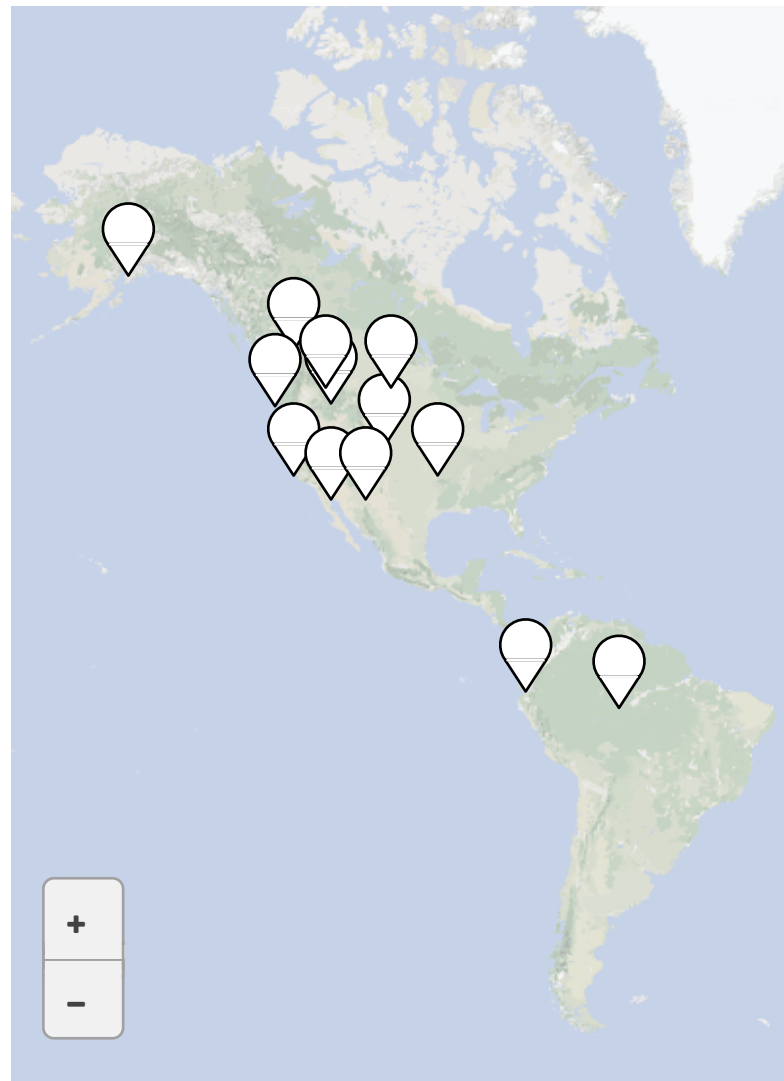
- All of the following
- Any of the following

▸ Vegetation & Climate

▸ General

▸ Geography

Found Set: Map



Found Set: List

Site ID ▾	Veg ▾	Clim ▾	MAP ▾	MAT ▾	Elev ▾	Start ▾
▸ BR-Sa1	EBF	Am	2075	26.13	88	2002
▸ BR-Sa3	EBF	Am	2044	26.12	100	2000
▸ CA-Ca1	ENF	Cfb	1369	9.93	100	
▸ CA-Ca2	ENF	Cfb	1474	9.86	300	
▸ CA-Ca3	ENF	Cfb	1676	9.94		
▸ CA-Cbo	DBF	Dfb	876	6.66	120	
▸ CA-Cha	MF	Dfb	972	3.46	341	
▸ CA-Fen	WE T	Dfc	433	0.18		
▸ CA-Gro	MF	Dfb	831	1.30	340	
▸ CA-Let	GRA	Dfb	398	5.36	960	

Found Set:

Copy

Notes

Step

The next step shows:

- Geography filter

UI Spec

1. Search | Sets tabs: Takes user to Site Sets page.



Notes

Step

The next step shows:

- Elevation filter

Sites / Site Search

Site Search

Filters

Reset Filters

Return sites with

All of the following

Any of the following

▸ Vegetation & Climate

▸ General

▸ Geography



Search Sets

Found Set: 199 Sites

Save as Site Set

Contact Pls

Share Set

Found Set: Map



Found Set: List

Site ID ▾	Veg ▾	Clim ▾	MAP ▾	MAT ▾	Elev ▾	Start ▾
▸ BR-Sa1	EBF	Am	2075	26.13	88	2002
▸ BR-Sa3	EBF	Am	2044	26.12	100	2000
▸ CA-Ca1	ENF	Cfb	1369	9.93	100	
▸ CA-Ca2	ENF	Cfb	1474	9.86	300	
▸ CA-Ca3	ENF	Cfb	1676	9.94		
▸ CA-Cbo	DBF	Dfb	876	6.66	120	
▸ CA-Cha	MF	Dfb	972	3.46	341	
▸ CA-Fen	WE T	Dfc	433	0.18		
▸ CA-Gro	MF	Dfb	831	1.30	340	
▸ CA-Let	GRA	Dfb	398	5.36	960	

Found Set:

Copy

Sites / Site Search

Site Search

Filters

Reset Filters

Return sites with

- All of the following
- Any of the following

▸ Vegetation & Climate

▸ General

▾ Geography

Location

Country ▾

Elevation (m)

- Any
- Range
- Above (\geq)
- Below (\leq)

Search

Sets

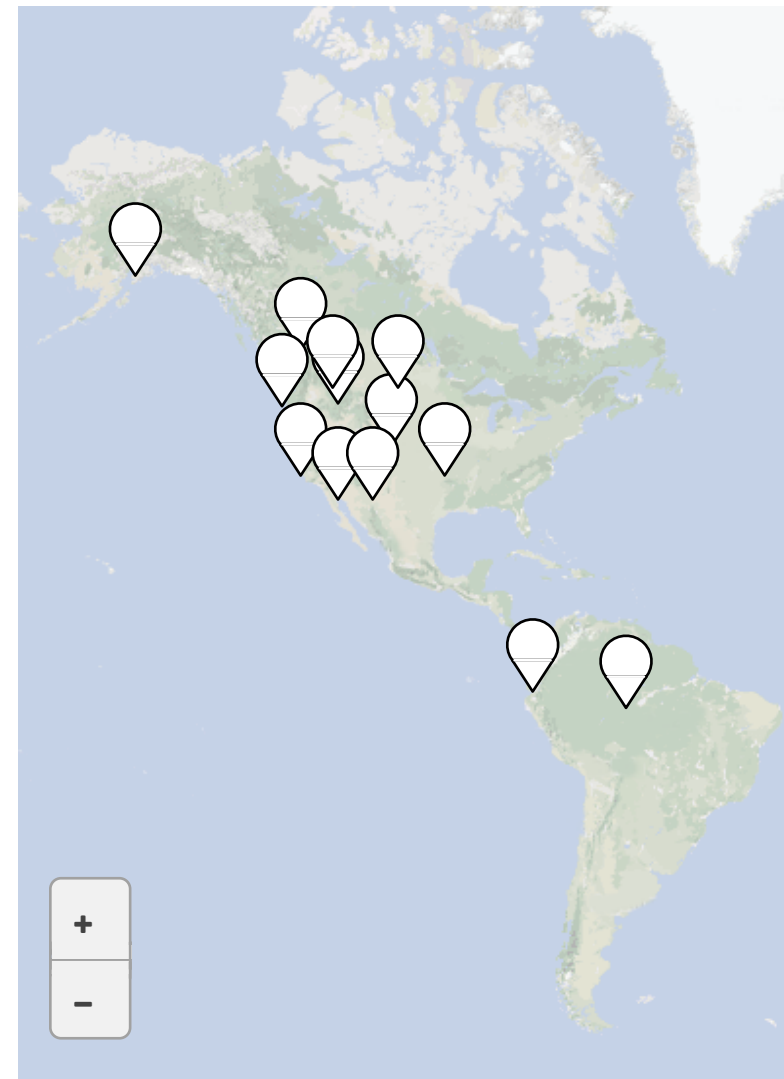
Found Set: 199 Sites

Save as Site Set

Contact Pls

Share Set

Found Set: Map



Found Set: List

Site ID ▾	Veg ▾	Clim ▾	MAP ▾	MAT ▾	Elev ▾	Start ▾
▸ BR-Sa1	EBF	Am	2075	26.13	88	2002
▸ BR-Sa3	EBF	Am	2044	26.12	100	2000
▸ CA-Ca1	ENF	Cfb	1369	9.93	100	
▸ CA-Ca2	ENF	Cfb	1474	9.86	300	
▸ CA-Ca3	ENF	Cfb	1676	9.94		
▸ CA-Cbo	DBF	Dfb	876	6.66	120	
▸ CA-Cha	MF	Dfb	972	3.46	341	
▸ CA-Fen	WE T	Dfc	433	0.18		
▸ CA-Gro	MF	Dfb	831	1.30	340	
▸ CA-Let	GRA	Dfb	398	5.36	960	

Found Set:

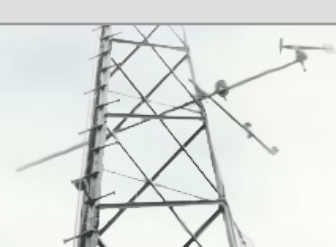
Copy

Notes

Step

The next step shows:

- Elevation filter item


Notes
Step

The next step shows:

- Elevation filter item amount

Sites / Site Search

Site Search

Filters

Reset Filters

Return sites with

- All of the following
 Any of the following

▸ Vegetation & Climate

▸ General

▾ Geography

Location

Country ▾

Elevation (m)

Above (≥) ▾

 1000 

Search

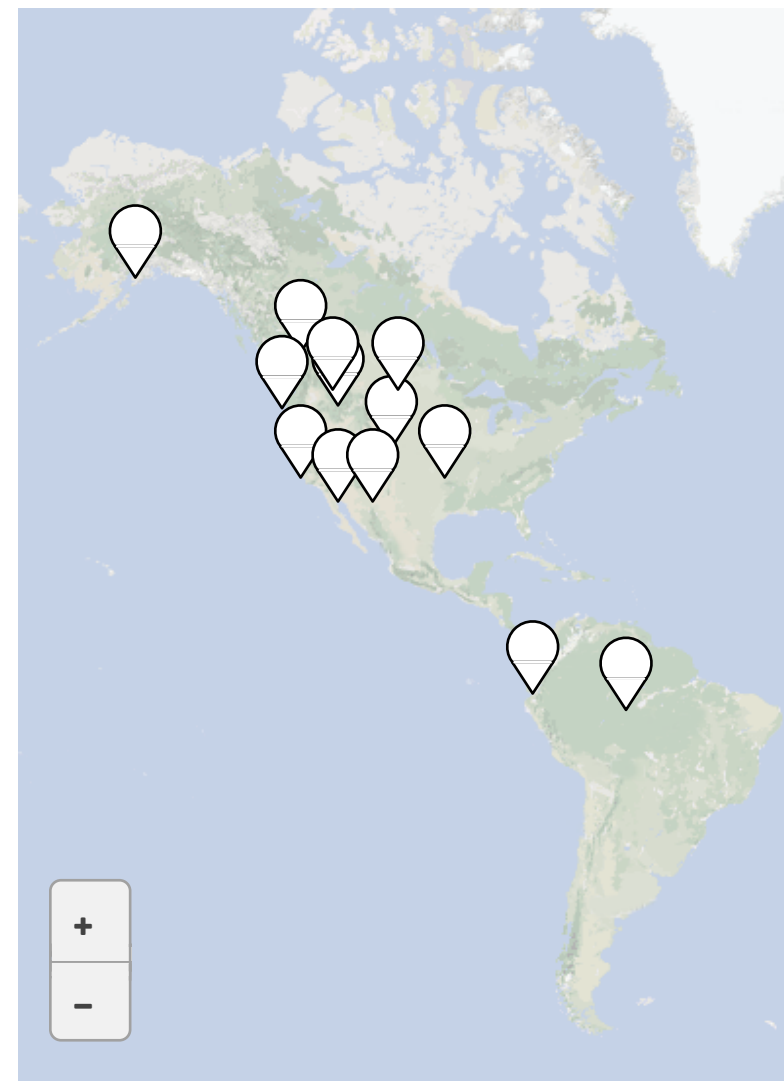
Sets

Found Set: 199 Sites

Save as Site Set

Contact Pls

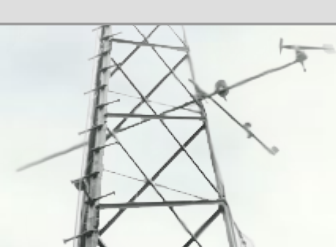
Share Set

Found Set: Map

Found Set: List

Site ID ▾	Veg ▾	Clim ▾	MAP ▾	MAT ▾	Elev ▾	Start ▾
▸ BR-Sa1	EBF	Am	2075	26.13	88	2002
▸ BR-Sa3	EBF	Am	2044	26.12	100	2000
▸ CA-Ca1	ENF	Cfb	1369	9.93	100	
▸ CA-Ca2	ENF	Cfb	1474	9.86	300	
▸ CA-Ca3	ENF	Cfb	1676	9.94		
▸ CA-Cbo	DBF	Dfb	876	6.66	120	
▸ CA-Cha	MF	Dfb	972	3.46	341	
▸ CA-Fen	WE T	Dfc	433	0.18		
▸ CA-Gro	MF	Dfb	831	1.30	340	
▸ CA-Let	GRA	Dfb	398	5.36	960	

Found Set:

Copy


[Sites / Site Search](#)

Site Search

Filters

[Reset Filters](#)

Return sites with

- All of the following
 Any of the following

▸ Vegetation & Climate

▸ General

▾ Geography

Location

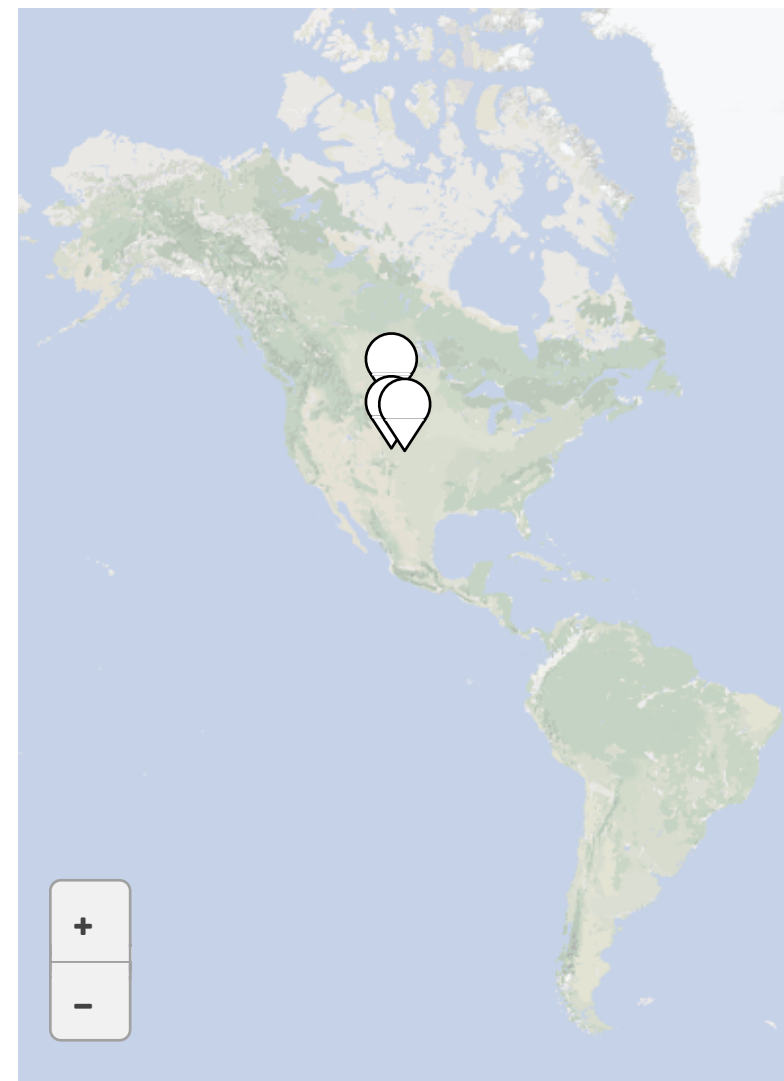
Country ▾

Elevation (m)

Above (≥) ▾

[Search](#)
[Sets](#)
Found Set: 3 Sites

Found Set: Map


1
[Save as Site Set](#)
[Contact Pls](#)
[Share Set](#)

Found Set: List

Site ID ▾	Veg ▾	Clim ▾	MAP ▾	MAT ▾	Elev ▾	Start ▾
▸ US-GLE	ENF	Dfc	525	8.80	3190	2004
▸ BR-Sa3	ENF	Dfc	800	1.50	3050	1998
▸ CA-Ca1	ENF	Dfb	646	6.40	3003	2007

Found Set:
[Copy](#)

Notes

Step

The next step shows:

- Saving as a site set

UI Spec

- 1. Save as Site Set button:** User must be authenticated to save a site set. If user is not authenticated yet, this button takes them to the Sign In page, and then once authenticated takes the user to Site Sets.

Sites / Site Sets

Site Sets

All Sets

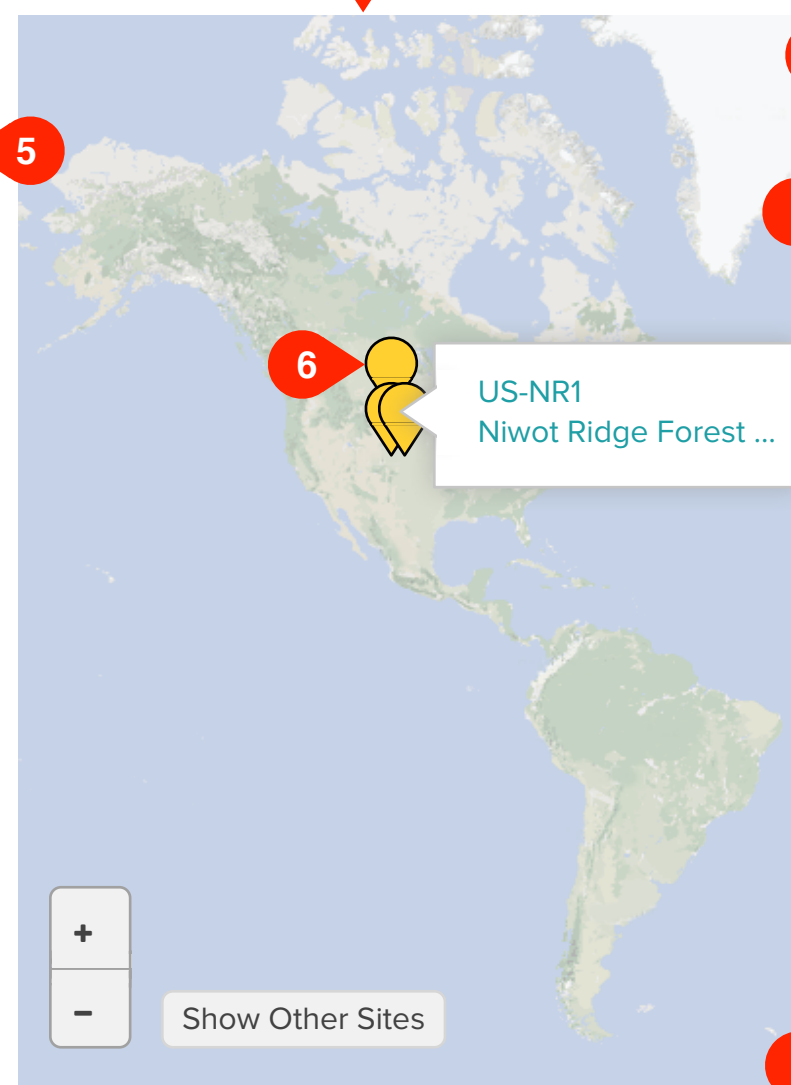
1 + Add Site Set

Search Sets Found Set: 3 Sites

Selected Set: Map

Selected Set: List **4** Contact Pis Share Set

Set Name	Sites
<input checked="" type="checkbox"/> Untitled Set 1	3



5 Untitled Set 1

US-GLE	GLEES
US-NR1	Niwot Ridge Forest (LTER NWT1)
US-Vcm	Valles Caldera National Preserve ...

Notes

Click Edit to add notes.

Delete Merge

+
- Show Other Sites

9 Edit

Notes

Step

The next step shows:

- Edit the site set

UI Spec

This is the view that a user would land on if someone else shared a link to a site set with them.

1. + Add Site Set button: Adds a new set with default name “Untitled Set <# + 1>”. Unless a set is created from the Found Set in Site Search, new sets have 0 members. Sortable by column heads Set Name and Sites (number of members).

2. All Sets table: Shows all of the user’s site sets. Users must be authenticated to have saved site sets. If a user has no sets, display this string:

Click + Add Site Set to create a site set.

3. Selected Set Map: Shows a marker for each site in sets selected in All Sets table. If no sets are selected, map has no markers.

4. Selected Set List: Shows a row for each site in sets selected in All Sets table. If no sets are selected, display this string:

Select a set in the All Sets table.

5. Title of selected site

6. Highlight color: Highlight color (gold #FFC826) appears in all three areas to show the relationship of the selected set(s) and the sites in them.

7. Check box: Use standard check box. Symbol used is only a proxy.

8. Marker label: Show site ID and site name. Nice to have: This is not a crucial feature, so leave if for last.

9. Edit button: Allows user to edit name and notes for selected set, as well as members of the set. Disable if more than one set is selected in All Sets.

Label toggles with “Done”.

Site Sets

All Sets

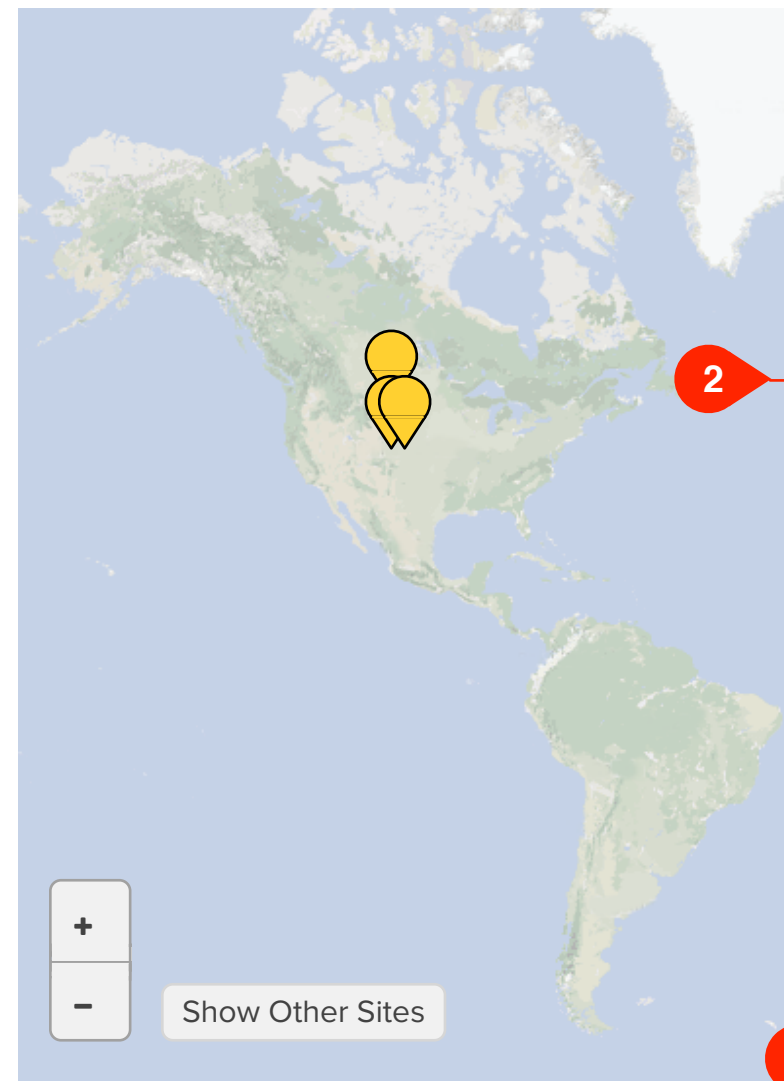
+ Add Site Set

Set Name ▾	Sites ▾
<input checked="" type="checkbox"/> Untitled Set 1	3

Delete Merge

Search Sets Found Set: 3 Sites

Selected Set: Map



+
- Show Other Sites

Selected Set: List

Contact Pis Share Set

Sites above 3000 meters

- US-GLE GLEES
- US-GMF Great Mountain Forest
- US-Goo Goodwin Creek
- US-Ha1 Harvard Forest EMS Tower (HFR1)
- US-Ha1 Harvard Forest Hemlock Site
- US-KFS Kansas Field Station
- US-An3 Anaktuvuk River Unburned
- US-Kon Konza Prairie LTER (KNZ)

Notes

Terricolous lichens and anthropogenic factors

Done

Notes

Step

The next step shows:

- Exit Edit mode by clicking Done.

UI Spec

1. Edit mode shows all sites: Edit mode allows user to add any site not currently in the set, so all are shown.

2. Add/delete UI for sites: For sites that are not already in the set, show an add button, which is just a linked text character (see below for specs). For sites that are not already in the set, show a delete button.

Add and delete characters are Font Awesome 16px. Use colors as indicated or something in existing CSS that is close.

Add: fa-plus-circle  #149802

Delete: fa-minus-circle  #FF0000

3. Done button: Save any changes to set name, Notes, and set members.

Notes

Step

The next step shows:

- Contacting PIs

UI Spec

1. New set name and Notes

Sites / Site Sets

Site Sets

All Sets

+ Add Site Set

Set Name ▾	Sites ▾
<input checked="" type="checkbox"/> Sites above 3000 meters 1	3

Delete

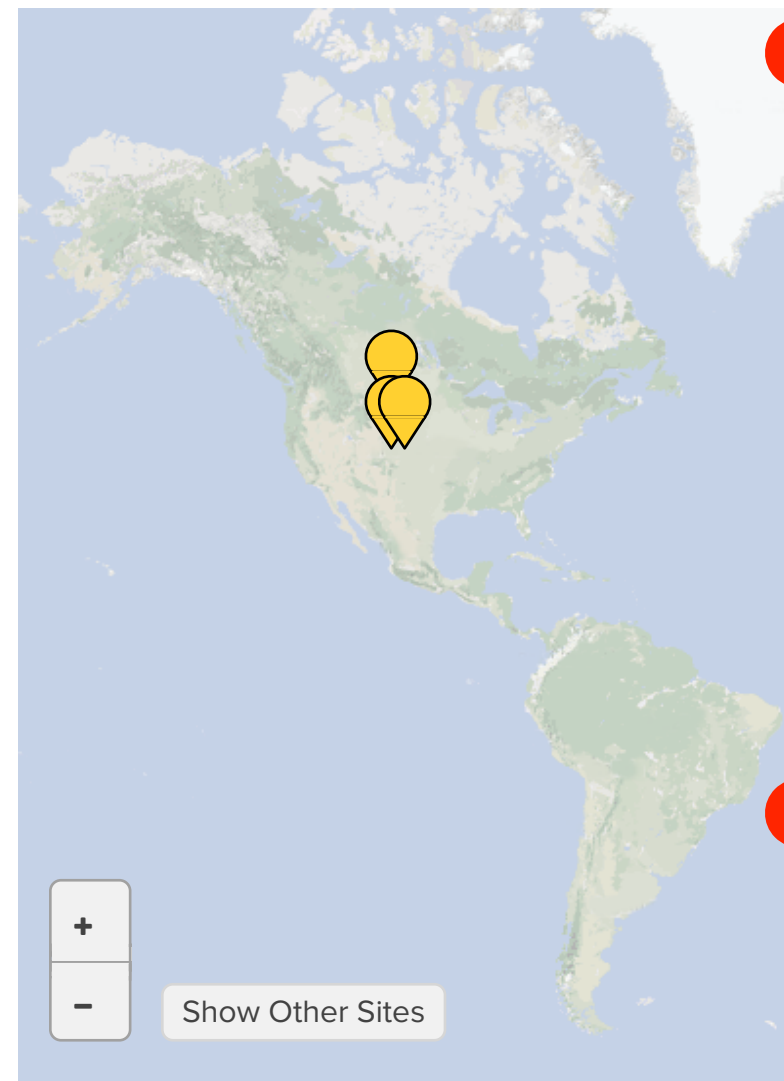
Merge

Search

Sets

Found Set: 3 Sites

Selected Set: Map



Show Other Sites

Selected Set: List

Contact PIs

Share Set

Sites above 3000 meters

- US-GLE GLEES
- US-NR1 Niwot Ridge Forest (LTER NWT1)
- US-Vcm Valles Caldera National Preserve ...

Notes

Terricolous lichens and anthropogenic factors

Edit



Contact PIs and Tower Staff

1. Choose Sites and People

Sites 1

<input checked="" type="checkbox"/>	Sites above 3000 meters 2
<input checked="" type="checkbox"/>	US-GLE GLEES
<input checked="" type="checkbox"/>	US-NR1 Niwot Ridge Forest (LTER NWT1)
<input checked="" type="checkbox"/>	US-Vcm Valles Caldera National Preserve ...

3

People 5

PIs

Tower Staff 4

CC Me

2. Compose Message

6 **To *** Bill Massman <bill@institution.gov>, Peter Blanken <peter@institution.gov>, Marcy Litvak <marcy@institution.gov>

5 **CC** Riva Moreno <thisuser@institution.gov>

Subject * About your tower sites

7 **Message *** Colleagues,
About the tower sites:
US-GLE GLEES
US-NR1 Niwot Ridge Forest (LTER NWT1)
US-Vcm Valles Caldera National Preserve ...

Notes

Step

The next step shows:

- Site sets

UI Spec

- On/Off toggle:** Clicking this checkbox selects or deselects all sites.
- Name of selected set(s):** If more than one set is selected, show this string:
Multiple Sets
- Site selection:** Nice to have: This is not a crucial feature, so leave if for last.
- Tower Staff popover:** Show this string:
For some tower sites, it is more effective to email tower staff in addition to or instead of the PI,
- CC Me:** CC user at their email address. Use user's address for reply-to.
- PIs and tower staff:** As selected above.
- Message:** Pre-populate with list of tower sites.

Site Sets

All Sets

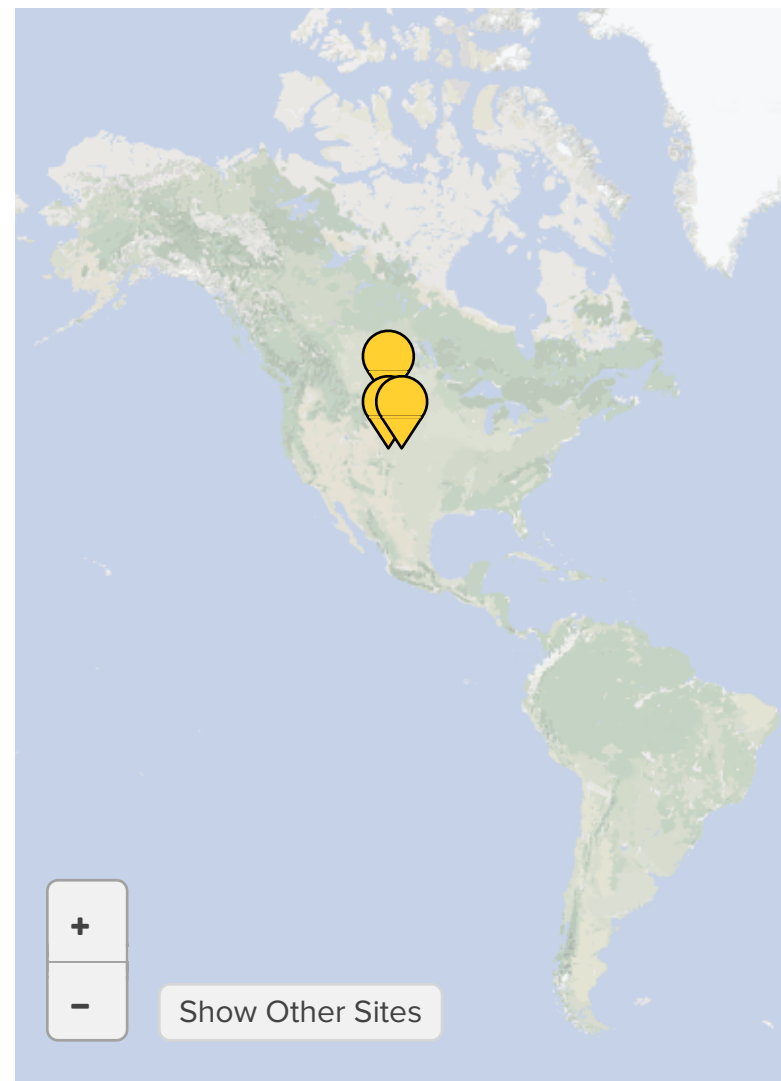
+ Add Site Set

Set Name ▾	Sites ▾
<input checked="" type="checkbox"/> Sites above 3000 meters	3

Delete Merge

Search Sets Found Set: 3 Sites

Selected Set: Map



+
- Show Other Sites

Selected Set: List

Contact Form **1** Share Set

Sites above 3000 meters

US-GLE	GLEES
US-NR1	Niwot Ridge Forest (LTER NWT1)
US-Vcm	Valles Caldera National Preserve ...

Notes

Terricolous lichens and anthropogenic factors

Edit

Notes

Step

The next step shows:

- Share the selected site set

UI Spec

1. **Share Set button:** Disable if more than one site is selected.

Site Sets

All Sets

Set Name

- Sites above 3000 meters

[Delete](#) [Merge](#)

Share a Site Set

To share your selected site set with a colleague, copy the URL below and paste it into an email message.

URL for site set "Sites above 3000 meters"

`http://ameriflux.lbl.gov?sharesiteset=df4gwe4ts347dww6bgtrl2wwer7ase;`

When your colleague uses the URL in a browser, they will see the sites listed and can save as their own set if they choose.

[Copy URL](#)[Cancel](#)[+](#)
[-](#) [Show Other Sites](#)[Edit](#)

Notes

Step

The next step shows:

- Site sets.

UI Spec

- 1. Name of selected set**
- 2. Site set in query string:** See Site Set in Query String page for specs.
- 3. Copy URL button:** Copies URL to user's clipboard.
- 4. Cancel button:** Returns user to site sets.
- 5. Clicking outside of overlay is the same as Cancel button.**

Site Set in Query String

Assume that each tower in the network has a fixed sequence ID that will not change, even if tower sites earlier in the sequence are no longer in the network. For each tower site in the network, assign a value of “1” if it is in this site set, and “0” if not. Use these values to create a binary number. Then convert that number to base 36, which can be expressed using a combination of the digits and lowercase letters, as follows:

0 = 0

9 = 9

a = 10

z = 35

$7gr3v_{36} = 52243639_{10}$

If n = total number of sites, for $n = 300$ this allows site sets to be expressed as a 59-character string. Terminate the string with a semicolon. Do not include leading 0's. Shorten the string further using a variation of two's complement (for $n = 300$, resulting length is ~30 chars), as follows:

- Values below midpoint ($< 2n/2$) do **not** use a hyphen after the equal sign:

?sharesiteset=df4gwe4ts347dww6bgtr12wwer7ase;

- Values at or above the midpoint ($\geq 2n/2$) **do** use a hyphen after the equal sign:

?sharesiteset=-s8weisvcx78sd24kjhxc3w4kse98s;

Length variations if there are leading 0's:

?sharesiteset=df4gwe4ts347dw23fbde3qwrw6bgtr12wwer7ase;

?sharesiteset=-23wivu923iuwer;

Sites / Site Sets

Site Sets

All Sets

[+ Add Site Set](#)

Set Name ▾	Sites ▾
<input type="checkbox"/> Baldocchi Sites	9
<input type="checkbox"/> Graveston Study	15
<input type="checkbox"/> Methane – CO2 – NH3	7
<input type="checkbox"/> Only IR	22
<input checked="" type="checkbox"/> Sites above 3000 meters	3

Delete

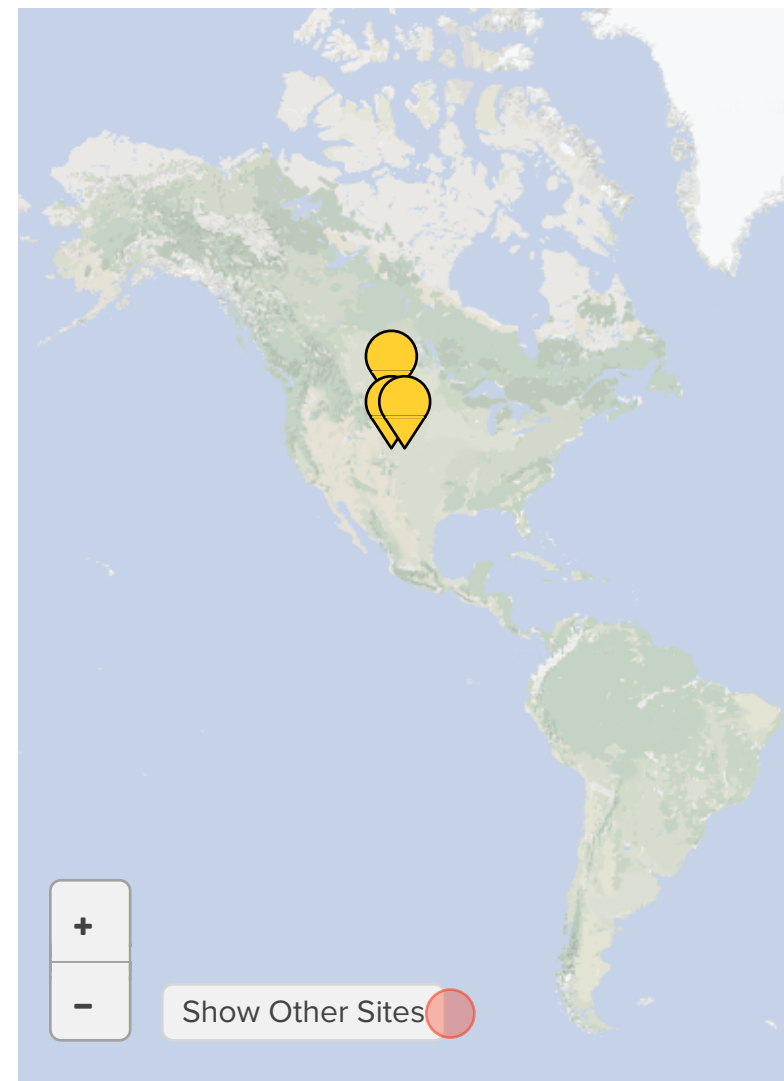
Merge


Search

Sets

Found Set: 3 Sites

Selected Set: Map



Show Other Sites 

Selected Set: List

Contact Pis

Share Set

Sites above 3000 meters

- US-GLE GLEES
- US-NR1 Niwot Ridge Forest (LTER NWT1)
- US-Vcm Valles Caldera National Preserve ...

Notes

Terricolous lichens and anthropogenic factors

Edit

Notes

Step

The next step shows:

- Show other sites on the map

Sites / Site Sets

Site Sets

All Sets

+ Add Site Set

Set Name ▾	Sites ▾
<input type="checkbox"/> Baldocchi Sites	9
<input type="checkbox"/> Graveston Study	15
<input type="checkbox"/> Methane – CO2 – NH3	7
<input type="checkbox"/> Only IR	22
<input checked="" type="checkbox"/> Sites above 3000 meters	3

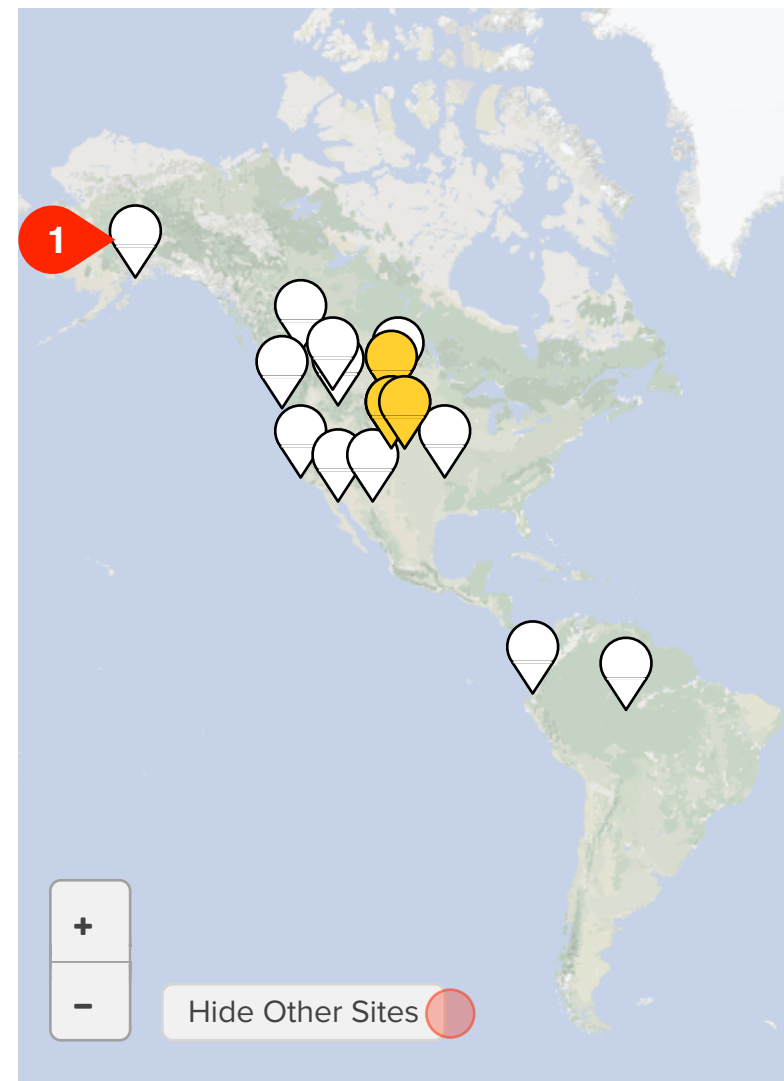
Delete Merge

Search

Sets

Found Set: 3 Sites

Selected Set: Map



Selected Set: List

Contact Pis

Share Set

Sites above 3000 meters

- US-GLE GLEES
- US-NR1 Niwot Ridge Forest (LTER NWT1)
- US-Vcm Valles Caldera National Preserve ...

Notes

Terricolous lichens and anthropogenic factors

Edit

Notes

Step

The next step shows:

- Hide other sites on the map

UI Spec

1. **Other sites:** Sites not in the selected set(s) are indicated by white markers.

Sites / Site Sets

Site Sets

All Sets

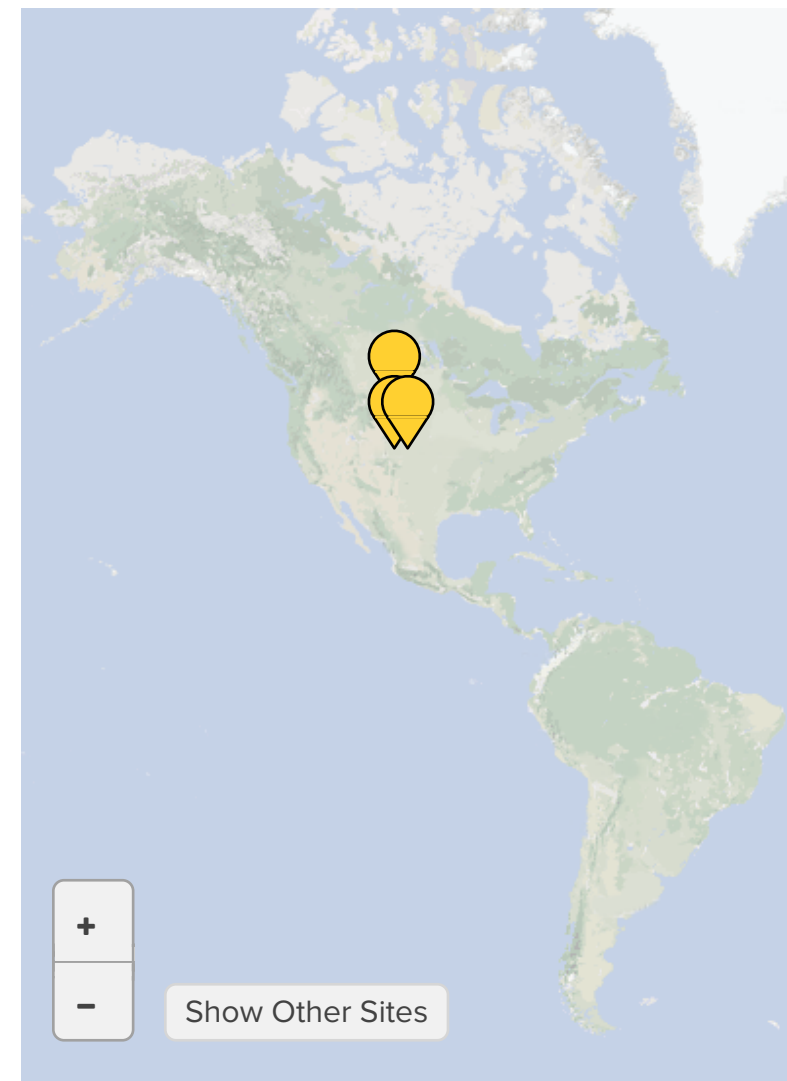
+ Add Site Set

Set Name ▾	Sites ▾
<input type="checkbox"/> Baldocchi Sites	9
<input type="checkbox"/> Graveston Study	15
<input type="checkbox"/> Methane – CO2 – NH3	7
<input type="checkbox"/> Only IR	22
<input checked="" type="checkbox"/> Sites above 3000 meters	3

Delete Merge

Search Sets Found Set: 3 Sites

Selected Set: Map



+
- Show Other Sites

Selected Set: List

Contact Pis Share Set

Sites above 3000 meters

US-GLE	GLEES
US-NR1	Niwot Ridge Forest (LTER NWT1)
US-Vcm	Valles Caldera National Preserve ...

Notes

Terricolous lichens and anthropogenic factors

Edit

Notes

Step

The next step shows:

- Overlay for deleting the selected sets.

Notes

Step

The next step shows:

- Site sets.

Sites / Site Sets

Site Sets

Found Set: 3 Sites

All Sets

[+ Add Site Set](#)[Selected Set: Map](#)[Selected Set: List](#)[Contact Pis](#)[Share Set](#)

Set Name

- Baldocchi Sites
- Graveston Study
- Methane – CO2 – NH3
- Only IR
- Sites above 3000 meters

Delete a Site Set

Confirm that you want to delete the selected sites set(s). This cannot be undone.

[Delete](#)[Cancel](#)[Delete](#)[Merge](#)[+](#)[-](#)[Show Other Sites](#)

Notes

Terricolous lichens and anthropogenic factors

[Edit](#)

Sites / Site Sets

Site Sets

All Sets

+ Add Site Set

Set Name ▾	Sites ▾
<input type="checkbox"/> Baldocchi Sites	9
<input checked="" type="checkbox"/> Graveston Study	15
<input type="checkbox"/> Methane – CO2 – NH3	7
<input type="checkbox"/> Only IR	22
<input checked="" type="checkbox"/> Sites above 3000 meters	3

Delete

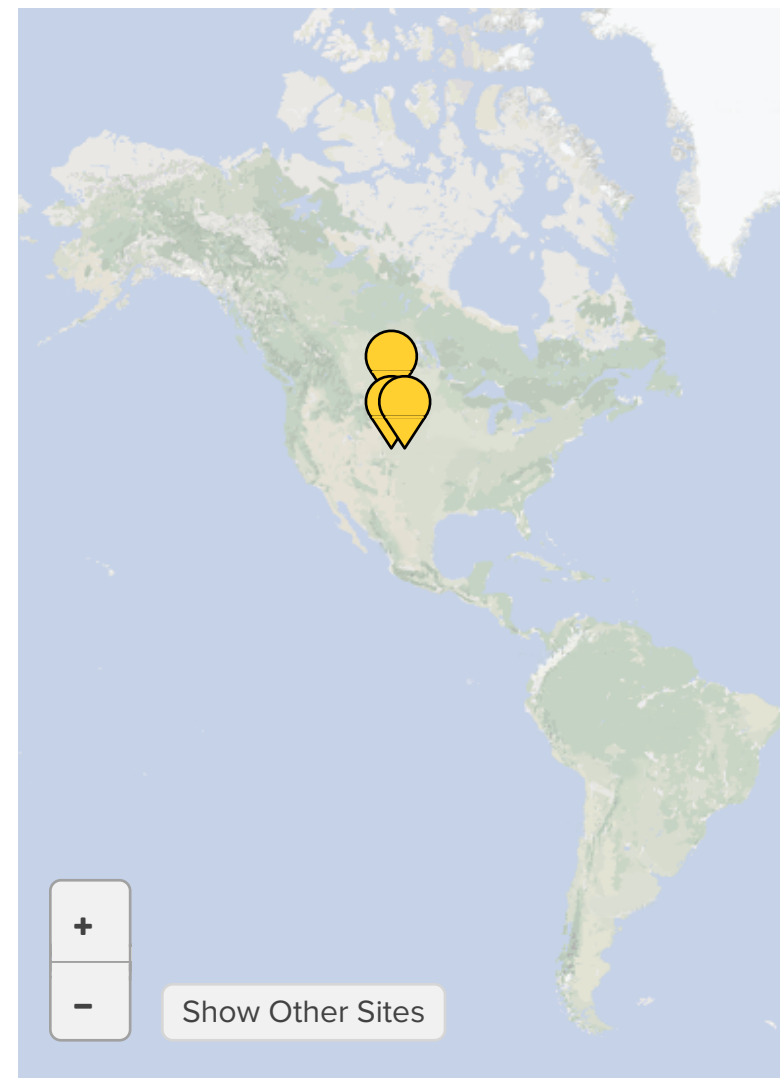
Merge

Search

Sets

Found Set: 3 Sites

Selected Set: Map



+

-

Show Other Sites

Selected Set: List

Contact Pis

Share Set

Sites above 3000 meters

- US-GLE GLEES
- US-NR1 Niwot Ridge Forest (LTER NWT1)
- US-Vcm Valles Caldera National Preserve ...

Notes

Terricolous lichens and anthropogenic factors

Edit

Notes

Step

The next step shows:

- Multiple site sets selected.

Sites / Site Sets

Site Sets

All Sets

+ Add Site Set

Set Name	Sites
<input type="checkbox"/> Baldocchi Sites	9
<input checked="" type="checkbox"/> Graveston Study	15
<input type="checkbox"/> Methane – CO2 – NH3	7
<input type="checkbox"/> Only IR	22
<input checked="" type="checkbox"/> Sites above 3000 meters	3

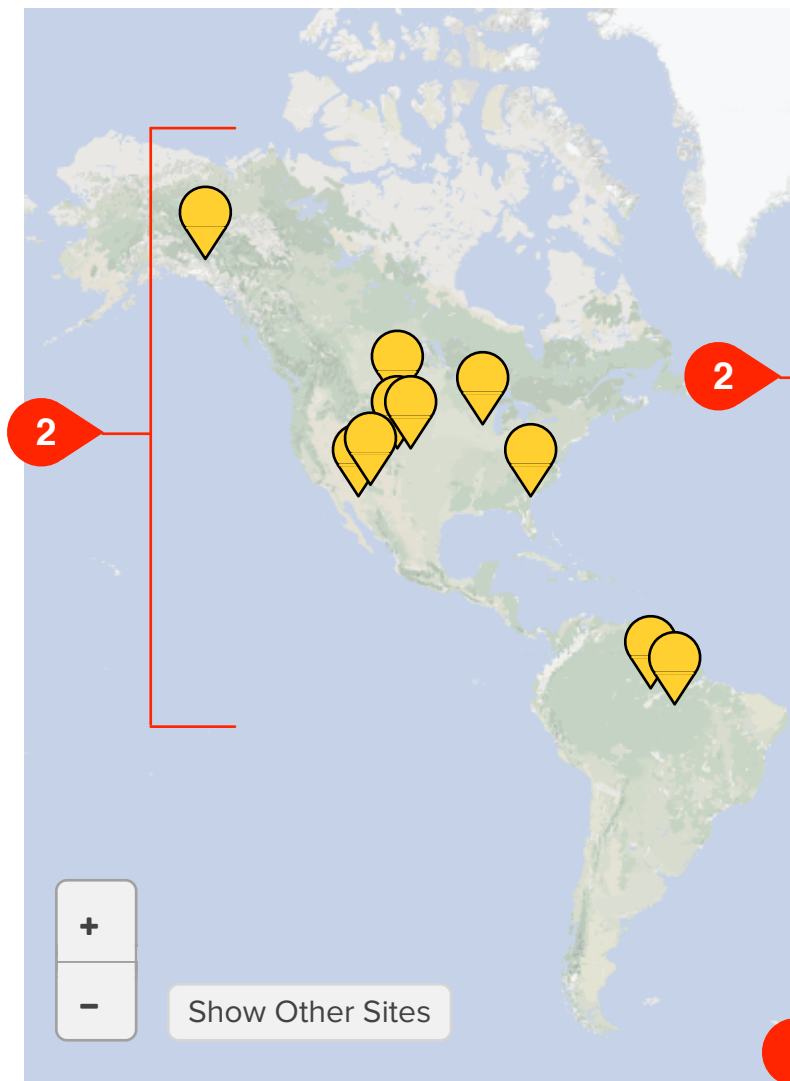
Delete Merge **1**

Search

Sets

Found Set: 3 Sites

Selected Set: Map



+
-

Show Other Sites

Selected Set: List

Contact Pis

Share Set

Multiple Sets

- CA-Ca1 British Columbia - 1948 Douglas-...
- CA-TPD Ontario - Turkey Point Mature ...
- CA-WP2 Alberta - Western Peatland - Poor ...
- MX-Lpa La Paz
- PA-Bar Barro Colorado Island
- US-GLE GLEES
- US-NR1 Niwot Ridge Forest (LTER NWT1)
- US-Vcm Valles Caldera National Preserve ...

Notes

Multiple sets

Edit **2**

Notes

Step

The next step shows:

- Merge sets overlay

UI Spec

1. Merge button: Only enabled when more than one set is selected.

Nice to have: This is not a crucial feature, so leave it for last.

2. Union of sets: All sites in all selected sets are shown in gold.

3. Edit button: Disabled when more than one set is selected.

Site Sets

All Sets

Set Name

- Baldocchi Sites
- Graveston Study
- Methane – CO2 – NH3
- Only IR
- Sites above 3000 meters

Delete Merge

Search Sets Found Set: 3 Sites

Merge Sets

Do you want to delete the selected sets and replace them with the new merged set?

- Don't Delete
- Delete

Merged Set Name * Untitled Merged Set 1

Merge

Cancel

Notes

UI Spec

Nice to have: This is not a crucial feature, so leave it for last.

- Delete selected sets:** user selects if selected sets should or should not be replaced by single new merge set.
- Name of resulting merged set**