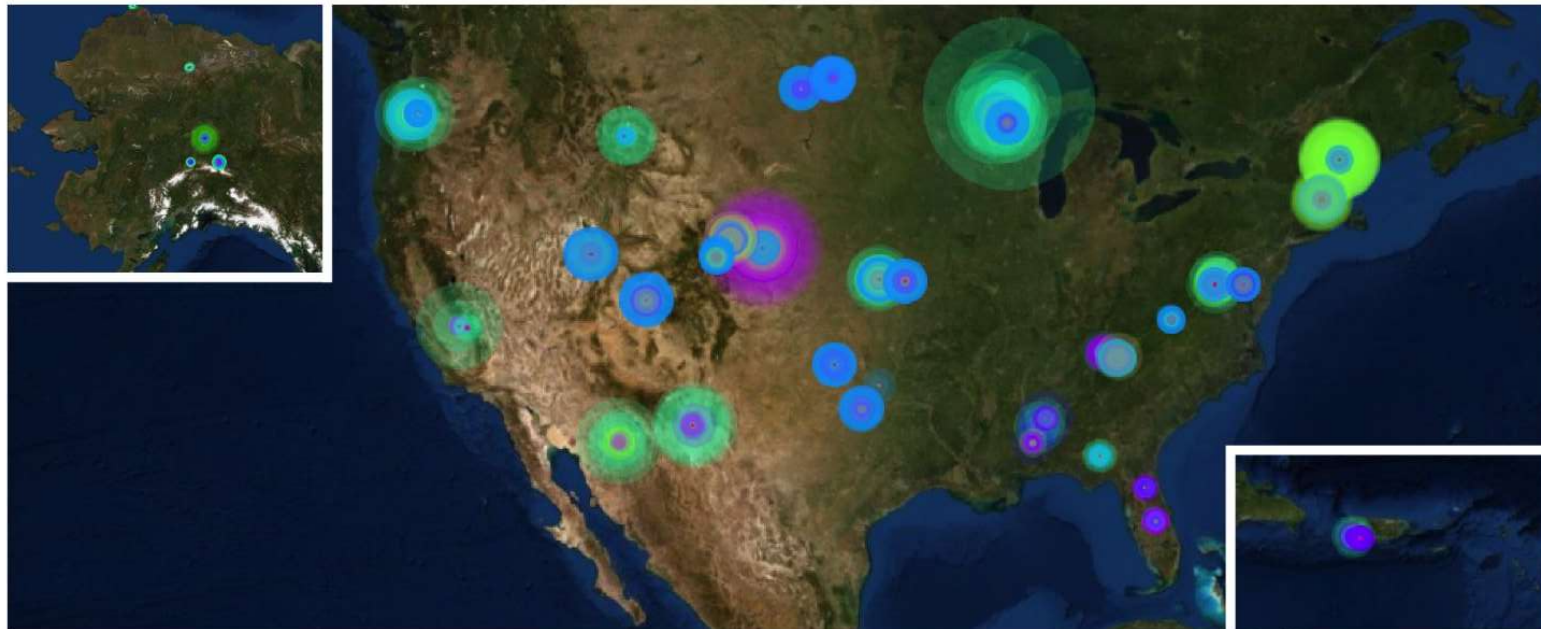




Understanding the Search Interface

Navigate to [Sample Search](#) under "Search" in the main menu.



Samples available in the portal (Aug 2019), collected in Alaska (top left), Continental US (center), and Puerto Rico (bottom right). Colors indicate different collection types. Circle sizes indicate quantity of samples per collection in a given locality.

This is the new search interface.

 **BIOREPOSITORY DATA PORTAL**

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Sample Search

TAXONOMY

Taxon

Type at least 4 characters for quick suggestions. Separate multiple with commas.

Any name

Taxon type.

☒ Include Synonyms

COLLECTIONS

☒ All NEON Biorepository Collections

☐ All Additional NEON Collections

☐ All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

SAMPLE PROPERTIES

☒ Include other catalog numbers and GUIDs

☐ Limit to specimens with images

☐ Limit to specimens with genetic data

SEARCH

RESET

Criteria

Include Synonyms

All Biorepo Collections

Include other IDs

All Domains & Sites

The criteria are now included inside **accordions** that can be expanded or collapsed by clicking their arrow symbol on the right side of the criterion header (Animated image below).

BIOREPOSITORY DATA PORTAL

SEARCH IMAGES CHECKLISTS SAMPLE USE ADDITIONAL INFORMATION GETTING STARTED MANAGEMENT TOOLS

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Sample Search

TAXONOMY

Any name

Type at least 4 characters for quick suggestions. Separate multiple with commas.

☒ Include Synonyms

COLLECTIONS

☒ All NEON Biorepository Collections ☐ All Additional NEON Collections

☐ All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

SAMPLE PROPERTIES

☒ Include other catalog numbers and GUIDs ☐ Limit to specimens with images

☐ Limit to specimens with genetic data

Separate multiple with commas.

SEARCH

RESET

Criteria

Include Synonyms

All Biorepo Collections

Include other IDs

All Domains & Sites

Fields have a short help text below them and will be marked with a red border if an invalid value is filled in.

☒ Include other catalog numbers and GIDs
 ☐ Limit to specimens with images
 ☐ Limit to specimens with genetic data

Catalog Number

Separate multiple with commas.

LOCALITY

LATITUDE & LONGITUDE

Bounding Box

Polygon (WKT footprint)

Point-Radius

SELECT IN MAP

Northern Latitude

-100

Select N/S

Values between -90 and 90.

Southern Latitude

Select N/S

Values between -90 and 90.

Western Longitude

Select W/E

Values between -180 and 180.

Eastern Longitude

Select W/E

Values between -180 and 180.

Polygon

Select in map with button or paste values.

Latitude

Select N/S

Values between -90 and 90.

Longitude

Select W/E

Values between -180 and 180.

Radius

Select Unit


Any positive values.

Criteria

Include Synonyms



All Biorepo Collections

Include other IDs

All Domains & Sites 

Upper Lat: -100

On the right there is a panel where you will find the action buttons and the selected **criteria chips** are added dynamically.



BIOREPOSITORY DATA PORTAL

[SEARCH](#) [IMAGES](#) [CHECKLISTS](#) [SAMPLE USE](#) [ADDITIONAL INFORMATION](#) [GETTING STARTED](#) [MANAGEMENT TOOLS](#)

Welcome Laura! [My Profile](#) [Logout](#) [Sitemap](#)

Sample Search

TAXONOMY

Taxon

Algae

Type at least 4 characters for quick suggestions. Separate multiple with commas.

Any name

Taxon type.

☒ Include Synonyms

COLLECTIONS

☒ All NEON Biorepository Collections

☐ All Additional NEON Collections

☐ All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

SAMPLE PROPERTIES

☒ Include other catalog numbers and GUIDs

☐ Limit to specimens with images

☐ Limit to specimens with genetic data

Catalog Number

SEARCH

RESET

Criteria

Taxa: Algae X



Include Synonyms X

All Biorepo Collections X

Include other IDs X

All Domains & Sites X

You can clear/remove a field by clicking the (x) button in the criterion chip or reset the entire form selection by clicking the **reset** button (Animated image below).



BIOREPOSITORY DATA PORTAL

[SEARCH](#) [IMAGES](#) [CHECKLISTS](#) [SAMPLE USE](#) [ADDITIONAL INFORMATION](#) [GETTING STARTED](#) [MANAGEMENT TOOLS](#)

Welcome Laura! [My Profile](#) [Logout](#) [Sitemap](#)

Sample Search

TAXONOMY

Taxon

Algae

Type at least 4 characters for quick suggestions. Separate multiple with commas.

Any name

Taxon type.

☒ Include Synonyms

COLLECTIONS

☒ All NEON Biorepository Collections

☐ All Additional NEON Collections

☐ All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

SAMPLE PROPERTIES

☒ Include other catalog numbers and GUIDs

☐ Limit to specimens with images

☐ Limit to specimens with genetic data

Catalog Number

SEARCH

RESET

Criteria

Taxa: Algae X

Include Synonyms X

All Biorepo Collections X



Include other IDs X

All Domains & Sites X

Criteria

Taxon

A quick suggestion tool is triggered when 4 or more letters are typed in the taxon field, displaying the matching suggestions available in the portal's taxonomic tree.

BIOREPOSITORY DATA PORTAL

[SEARCH](#)
[IMAGES](#)
[CHECKLISTS](#)
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[MANAGEMENT TOOLS](#)

Welcome Laura! [My Profile](#) [Logout](#) [Sitemap](#)

Sample Search

TAXONOMY

Taxon

Carabi

Carabidae

Any name

Taxon type.

☒ Include Synonyms

COLLECTIONS

☐ All NEON Biorepository Collections

☐ All Additional NEON Collections

☐ All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

SAMPLE PROPERTIES

☒ Include other catalog numbers and GUIDs

☐ Limit to specimens with images

☐ Limit to specimens with genetic data

Catalog Number

Separate multiple with commas.

SEARCH

RESET

Criteria

Some Biorepo Colls: CARC-DNA

Taxa: Cara

Include Synonyms

Include other IDs

All Domains & Sites

Collections


Collections can be of 3 types:


1. NEON Biorepository Collections: NEON collections with samples physically hosted at the Biorepository at ASU
2. Additional NEON Collections: NEON collections with samples hosted at partner institutions other than ASU
3. Other Collections from NEON sites: datasets gathered from other biodiversity portals, which were collected in NEON localities


NEON Biorepository Collections

By default only the Biorepository collections are selected. Click the (+) button next to the checkbox to open an overlay window with the full lists of collections.

COLLECTIONS

☒  All NEON Biorepository Collections

☐  All Additional NEON Collections

☐  All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

SAMPLE PROPERTIES

☒ Include other catalog numbers and GUIDs

☐ Limit to specimens with images

☐ Limit to specimens with genetic data

Catalog Number

Separate multiple with commas.

LOCALITY

LATITUDE & LONGITUDE

Bounding Box

Polygon (WKT footprint)

Point-Radius

SELECT IN MAP

Northern Latitude

Select N/S

Values between -90 and 90.

Southern Latitude

SELECT IN MAP

Polygon

Select in map with button or paste values.

SELECT IN MAP

Latitude

Select N/S

Values between -90 and 90.

Longitude

RESET

Criteria

Taxa: Carabidae

Include Synonyms

All Biorepo Collections

Include other IDs

All Domains & Sites

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The modal displays the same collections organized in different tabs, according to different criteria: Taxonomic

The image shows a web application interface with a modal dialog open. The modal is titled "Activate a single criterion to filter collections" and has a blue button labeled "ACCEPT AND CLOSE" in the top right corner. Inside the modal, there are three radio buttons: "Taxonomic Group" (which is selected and highlighted with a yellow box), "NEON Theme", and "Sample Type". Below these, the modal is titled "Select Collections by Taxonomic Group". Under this title, there is a list of taxonomic groups, each with a checked checkbox and a plus icon in a square:

- ☒ All NEON Biorepository Collections
 - ☒ Aquatic Invertebrates
 - ☒ Aquatic plants, bryophytes, lichens, and macroalgae
 - ☒ Environmental
 - ☒ Microbes
 - ☒ Periphyton, seston, and phytoplankton
 - ☒ Terrestrial Invertebrates
 - ☒ Terrestrial Plants
 - ☒ Vertebrates

Below the modal, the background interface shows a section titled "LATITUDE & LONGITUDE" with three tabs: "Bounding Box", "Polygon (WKT footprint)", and "Point-Radius". Each tab has a "SELECT IN MAP" button. The "Bounding Box" tab is active and shows input fields for "Northern Latitude", "Southern Latitude", and a "Select N/S" dropdown menu. The "Point-Radius" tab shows input fields for "Latitude" and "Longitude", and a "Select N/S" dropdown menu. The "Polygon" tab shows a "Polygon" input field and a note "Select in map with button or paste values."

Group

Criterion: NEON Theme

Type at least 4 characters for quick suggestions. Separate multiple with commas. Taxon type.

☒ Include Synonyms

Activate a single criterion to filter collections

☐ Taxonomic Group ☒ **NEON Theme** ☐ Sample Type

Select Collections by NEON Theme

- ☒ ☐ All NEON Biorepository Collections
 - ☒ ☐ Atmosphere
 - ☒ ☐ Atmosphere, Land Cover & Processes
 - ☒ ☐ Biogeochemistry, Land Cover & Processes
 - ☒ ☐ Biogeochemistry, Organisms, Populations, and Communities
 - ☒ ☐ Organisms, Populations, and Communities

LOCALITY ▼

LATITUDE & LONGITUDE ▲

Bounding Box	Polygon (WKT footprint)	Point-Radius
<input type="button" value="SELECT IN MAP"/>	<input type="button" value="SELECT IN MAP"/>	<input type="button" value="SELECT IN MAP"/>
Northern Latitude	Polygon	Latitude
Select N/S		Select N/S

Criterion: Sample Type

Type at least 4 characters for quick suggestions. Separate multiple with commas. Taxon type.

☒ Include Synonyms

Activate a single criterion to filter collections

☐ Taxonomic Group ☐ NEON Theme ☒ **Sample Type**

Select Collections by Sample Type

- ☒ ☐ All NEON Biorepository Collections
 - ☒ ☐ DNA Sample
 - ☒ ☐ Dry Sample
 - ☒ ☐ Environmental Sample
 - ☒ ☐ Fluid-Preserved Sample
 - ☒ ☐ Frozen Sample
 - ☒ ☐ Slide-Mounted Sample
 - ☒ ☐ Tissue or Fecal Sample

LATITUDE & LONGITUDE

Bounding Box Polygon (WKT footprint) Point-Radius

Northern Latitude Polygon Latitude

To see each collection profile, click the collection title if it's blue (meaning it's available for loans/requests), or the "More Info" link if it's greyed out (meaning it's NOT available for loans/requests at the moment).

☒ Include Synonyms

Activate a single criterion to filter collections


☐ Taxonomic Group ☐ NEON Theme ☒ Sample Type

ACCEPT AND CLOSE

Select Collections by Sample Type


- ☒ ☐ All NEON Biorepository Collections
- ☒ ☐ DNA Sample
 - ☒ [Benthic Macroinvertebrate Collection \(DNA Extracts\) \(BMIC-DNA\)](#)
 - ☐ Benthic Microbe Collection (DNA Extracts) (BEMC-DNA) - Samples Unavailable [More Info](#)
 - ☒ Carabid Collection (DNA Extracts) (CARC-DNA)
 - ☒ Fish Collection (DNA Extracts) (FISC-DNA)
 - ☒ Mammal Collection (DNA Extracts) (MAMC-DNA)
 - ☐ Mosquito Collection (DNA Extracts [Pathogen Extracts]) (MOSC-PE) - Samples Unavailable [More Info](#)
 - ☐ Mosquito Collection (DNA Extracts) (MOSC-DNA) - Samples Unavailable [More Info](#)
 - ☒ Soil Microbe Collection (DNA Extracts) (SOMC-DNA)
 - ☐ Surface Water Microbe Collection (DNA Extracts) (SWMC-DNA) - Samples Unavailable [More Info](#)
 - ☐ Tick Collection (DNA Extracts [Pathogen Extracts]) (TICC-PE) - Samples Unavailable [More Info](#)
 - ☒ Zooplankton Collection (DNA Extracts) (ZOOC-DNA)
- ☒ ☐ Dry Sample
- ☒ ☐ Environmental Sample
- ☒ ☐ Fluid-Preserved Sample
- ☒ ☐ Frozen Sample
- ☒ ☐ Slide-Mounted Sample
- ☒ ☐ Tissue or Fecal Sample

The collection profile will appear in a separate window.

 **SEARCH** **IMAGES** **CHECKLISTS** **SAMPLE USE** **ADDITIONAL INFORMATION** **GETTING STARTED** **MANAGEMENT TOOLS**

Home >> Collection Search Page >> **Benthic Macroinvertebrate Collection (DNA Extracts) Details** Welcome Laura! [My Profile](#) [Logout](#) [Sitemap](#)

Benthic Macroinvertebrate Collection (DNA Extracts) (NEON-BMIC-DNA)

Please contact the NEON Biorepository for information about when these samples will become available. This collection contains genetic extracts from homogenized benthic macroinvertebrate samples collected during aquatic macroinvertebrate sampling (NEON sample class: inv_dnaExtraction_in.dnaSampleID). Benthic macroinvertebrate metabrcode samples are collected for analysis at wadeable stream, river, and lake sites during the mid-summer aquatic biology bout window, at the same time and location as morphological taxonomy samples. Samples are collected using the most appropriate sampler for the habitat type, including Surber, Hess, hand corer, modified kicknet, D-frame sweep, and petite ponar samplers using field-sterile methods. In wadeable streams, samples are collected in the most dominant habitat type (e.g. riffles, runs, pools, step pools). In lakes and rivers, samples are collected in littoral areas using a D-frame sweep. Samples are preserved in ethanol in the field, returned to the domain support facility for a preservative change prior to shipping to an external facility. The metabarcode samples from bout 2 (summer) are shipped to an external facility for homogenization and high-throughput sequencing (metabarcoding). The unused portion of genetic extracts are archived at the NEON Biorepository in 96-well plates and stored at -80 degrees Celsius. See related links below for protocols and NEON related data products. The metabarcoding analysis protocol used by Jonah Ventures (external facility) is available in the NEON document library (<https://data.neonscience.org/documents>). Additional information about Jonah Ventures can be found at <https://jonahventures.com/>. 

Contacts: NEON Biorepository, biorepo@asu.edu

Collection Manager: Azhar Husain

NEON Data Product Description: <https://data.neonscience.org/data-products/DP1.20126.001>

Collection Type: Preserved Specimens

The search will only use the actively selected collection tab. To accept your selection, click the "Accept and close" button.

Activate a single criterion to filter collections

☐ Taxonomic Group ☐ NEON Theme ☒ Sample Type

ACCEPT AND CLOSE

Select Collections by Sample Type

- ☐ ☒ All NEON Biorepository Collections
 - ☐ ☒ DNA Sample
 - ☐ Benthic Macroinvertebrate Collection (DNA Extracts) (BMIC-DNA)
 - ☐ Benthic Microbe Collection (DNA Extracts) (BEMC-DNA) - Samples Unavailable [More Info](#)
 - ☒ Carabid Collection (DNA Extracts) (CARC-DNA)
 - ☐ Fish Collection (DNA Extracts) (FISC-DNA)
 - ☐ Mammal Collection (DNA Extracts) (MAMC-DNA)
 - ☐ Mosquito Collection (DNA Extracts [Pathogen Extracts]) (MOSC-PE) - Samples Unavailable [More Info](#)
 - ☐ Mosquito Collection (DNA Extracts) (MOSC-DNA) - Samples Unavailable [More Info](#)
 - ☐ Soil Microbe Collection (DNA Extracts) (SOMC-DNA)
 - ☐ Surface Water Microbe Collection (DNA Extracts) (SWMC-DNA) - Samples Unavailable [More Info](#)
 - ☐ Tick Collection (DNA Extracts [Pathogen Extracts]) (TICC-PE) - Samples Unavailable [More Info](#)
 - ☐ Zooplankton Collection (DNA Extracts) (ZOOC-DNA)
 - ☐ ☒ Dry Sample
 - ☐ ☒ Environmental Sample
 - ☐ ☒ Fluid-Preserved Sample
 - ☐ ☒ Frozen Sample
 - ☐ ☒ Slide-Mounted Sample
 - ☐ ☒ Tissue or Fecal Sample

The selected collections codes are going to appear summarized in the criteria chips in the right panel.

Type at least 4 characters for quick suggestions. Separate multiple with commas.

Taxon type.

☒ Include Synonyms

COLLECTIONS

☐ All NEON Biorepository Collections

☐ All Additional NEON Collections

☐ All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

SAMPLE PROPERTIES

☒ Include other catalog numbers and GUIDs

☐ Limit to specimens with images

☐ Limit to specimens with genetic data

Catalog Number

Separate multiple with commas.

LOCALITY

LATITUDE & LONGITUDE

COLLECTING EVENT

Criteria

Some Biorepo Colls: CARC-DNA

Include Synonyms

Include other IDs

All Domains & Sites

Note that you must select at least one collection to be able to perform a search. An alert will appear when you click the "Search" button if you fail to do so.

Sample Search

TAXONOMY

Taxon

Type at least 4 characters for quick suggestions. Separate multiple with commas.

Any name

Taxon type.

☒ Include Synonyms

COLLECTIONS

☐ All NEON Biorepository Collections

☐ All Additional NEON Collections

☐ All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

SAMPLE PROPERTIES

☒ Include other catalog numbers and GUIDs

☐ Limit to specimens with images

☐ Limit to specimens with genetic data

Catalog Number

Separate multiple with commas.

LOCALITY

SEARCH

RESET

Criteria

Include Synonyms X


Include other IDs X


All Domains & Sites X


Please select at least one collection. Click to dismiss.

Sample Properties

By default the search will include all catalog numbers available. You can limit the search by specimens that have images or genetic data (e. g. sequences [available in the Barcode of Life Database - BOLD](#)).

☐  All NEON Biorepository Collections

☐  All Additional NEON Collections

☐  All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

SAMPLE PROPERTIES ^

☒ Include other catalog numbers and GUIDs

☐ Limit to specimens with images

☒ Limit to specimens with genetic data

Separate multiple with commas.

LOCALITY v

LATITUDE & LONGITUDE v

COLLECTING EVENT v

include other IDs x

Only with genetic x

All Domains & Sites x

Locality

The NEON Domains and Sites have been added as a list of filters to refine searches in the portal.

Separate multiple with commas.

LOCALITY

☒ All NEON Domains and Sites

☒ + D01 - Northeast

☒ + D02 - Mid-Atlantic

☒ + D03 - Southeast

☒ + D04 - Atlantic Neotropical

☒ + D05 - Great Lakes

☒ + D06 - Prairie Peninsula

☒ + D07 - Appalachians & Cumberland Plateau

☒ + D08 - Ozarks Complex

☒ + D09 - Northern Plains

☒ + D10 - Central Plains

☒ + D11 - Southern Plains

☒ + D12 - Northern Rockies

☒ + D13 - Southern Rockies & Colorado Plateau

☒ + D14 - Desert Southwest

☒ + D15 - Great Basin

☒ + D16 - Pacific Northwest

☒ + D17 - Pacific Southwest

☒ + D18 - Tundra

☒ + D19 - Taiga

☒ + D20 - Pacific Tropical

State

Separate multiple with commas.

County

Separate multiple with commas.

Locality

Separate multiple with commas.

Minimum Elevation

Maximum Elevation

Only numbers.

Only numbers.

Criteria

Include Synonyms

Include other IDs

Only with genetic

All Domains & Sites

You can expand a domain to see what sites are included in it.

Separate multiple with commas.

LOCALITY

☒ ☐ All NEON Domains and Sites

☒ ☐ D01 - Northeast

☒ (BART) Bartlett Experimental Forest NEON

☒ (HARV) Harvard Forest & Quabbin Watershed NEON

☒ (HOPB) Lower Hop Brook NEON

☒ ☐ D02 - Mid-Atlantic

☒ ☐ D03 - Southeast

☒ ☐ D04 - Atlantic Neotropical

☒ ☐ D05 - Great Lakes

☒ ☐ D06 - Prairie Peninsula

☒ ☐ D07 - Appalachians & Cumberland Plateau

☒ ☐ D08 - Ozarks Complex

☒ ☐ D09 - Northern Plains

☒ ☐ D10 - Central Plains

☒ ☐ D11 - Southern Plains

☒ ☐ D12 - Northern Rockies

☒ ☐ D13 - Southern Rockies & Colorado Plateau

☒ ☐ D14 - Desert Southwest

☒ ☐ D15 - Great Basin

☒ ☐ D16 - Pacific Northwest

☒ ☐ D17 - Pacific Southwest

☒ ☐ D18 - Tundra

☒ ☐ D19 - Taiga

☒ ☐ D20 - Pacific Tropical

State

Separate multiple with commas.

County

Separate multiple with commas.

Locality

Separate multiple with commas.

Minimum Elevation

Only numbers.

Maximum Elevation

Only numbers.

RESET

Criteria

Include Synonyms

Include other IDs

Only with genetic

All Domains & Sites

LATITUDE & LONGITUDE

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Clicking the site name will open a new tab with the site information at neonscience.org.



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[Data & Samples](#)

[Field Sites](#)

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Field Sites

[About Field Sites and Domains](#)

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- [Field Site Information](#)
- [Observation Types](#)
- [Field Site Data](#)
- [Gallery](#)

[Home](#) / [Field Sites](#) / Bartlett Experimental Forest NEON

FIELD SITE

Bartlett Experimental Forest NEON / BART



Relocatable Terrestrial, NH, D01: Northeast



Click the site(s)/domain(s) desired and note that they will appear summarized as a criterion chip in the right

LOCALITY

☐ All NEON Domains and Sites

☐ D01 - Northeast

☒ (BART) Bartlett Experimental Forest NEON

☒ (HARV) Harvard Forest & Quabbin Watershed

NEON

☐ (HOPB) Lower Hop Brook NEON

☒ D02 - Mid-Atlantic

☐ D03 - Southeast

☐ D04 - Atlantic Neotropical

☐ D05 - Great Lakes

☐ D06 - Prairie Peninsula

☐ D07 - Appalachians & Cumberland Plateau

☐ D08 - Ozarks Complex

☐ D09 - Northern Plains

☐ D10 - Central Plains

☐ D11 - Southern Plains

☐ D12 - Northern Rockies

☐ D13 - Southern Rockies & Colorado Plateau

☐ D14 - Desert Southwest

☐ D15 - Great Basin

☐ D16 - Pacific Northwest

☐ D17 - Pacific Southwest

☐ D18 - Tundra

☐ D19 - Taiga

☐ D20 - Pacific Tropical

State

Separate multiple with commas.

County

Separate multiple with commas.

Locality

Separate multiple with commas.

Minimum Elevation

Maximum Elevation

Only numbers.

Only numbers.

Criteria

Domain(s): D02 Sites: BART, HARV

Include Synonyms

Include other IDs

Only with genetic

panel.

For the nominal locality criteria note that it is only possible to search localities in the US territories.

Latitude and Longitude criteria can also be applied using a bounding box, spatial polygon, or point-radius area.

☐ D18 - Tundra

☐ D19 - Taiga

☐ D20 - Pacific Tropical

Bounding Box

SELECT IN MAP

Northern Latitude

Select N/S

Values between -90 and 90.

Southern Latitude

Select N/S

Values between -90 and 90.

Western Longitude

Select W/E

Values between -180 and 180.

Eastern Longitude

Select W/E

Values between -180 and 180.

Domain(s): D02 Sites: BART, HARV

NEON Biorepository Data Portal - Coordinate Aid - Google Chrome

https://biorepo.neonscience.org/portal/collections/tools/mapcooraid.php?mapmode=rectangle

Click on shape symbol to create a rectangle, circle, or polygon.
Close mapping tool to transfer shape definition to search form.

Map

Satellite

Save and Close

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