

NH GRANIT Town Boundary Monument Catalog



Fay Rubin
Complex Systems Research Center
University of New Hampshire
August 11, 2007



Presentation Outline

- GRANIT Data Mapper:
<http://mapper.granit.unh.edu>
- GRANIT Town Boundary Monument Catalog:
<http://boundary.granit.unh.edu>
 - Purpose of Site
 - Overview of Functionality
 - Submitting Data
 - Viewing Data

GRANIT Data Mapper: mapper.granit.unh.edu

NH GRANIT DATA MAPPER

Identify Results

Location

| NEW HAMPSHIRE STATE PLANE COORDINATES | |
|---------------------------------------|--------|
| X (FT) | Y (FT) |
| 1167487 | 212997 |

There were no features in any active layers for the area you identified.

BASE MAP

BASE MAP [?]

LAYERS | **THEME TOOLS** | **UTILITIES** | **OPTIONS**

Layer Menu [?]

| VISIBLE | ACTIVE | LABEL | LAYER NAME |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Political Boundaries |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Roads |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Water Bodies |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Stream Network |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Watersheds |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Utilities & Telecommunications |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Railroads |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Places of Interest |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | DRG Topo Maps |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | DOQ 1998 Aerial Imagery |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | NAIP 2003 Aerial Imagery |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Regional Context |

APPLY | **RESULTS** | **LEGEND**

GRANIT HOME | ABOUT | CONTACT GRANIT | FAQ | WHAT'S NEW! AUGUST, 2007 | SET SCALE: 1:5,000

GRANIT Data Mapper: mapper.granit.unh.edu

Identify Results

Location

| NEW HAMPSHIRE STATE PLANE COORDINATES | |
|---------------------------------------|--------|
| X (FT) | Y (FT) |
| 1182665 | 225893 |

Geodetic Control Points

| RECORD | STATION NAME | POINT ID | ORDER | AGENCY | HORIZONTAL DATUM | ELEVATION 88 (METERS) | ELEVATION ORDER | STATE PLANE NORTHING (METERS) | STATE PLANE EASTING (METERS) |
|--------|--------------|----------|-------|--------|------------------|-----------------------|-----------------|-------------------------------|------------------------------|
| 1 | TY 129 | 45 | | NHDPWH | 83/86 | 14.035 | 35 | 68834.787 | 360470.678 |

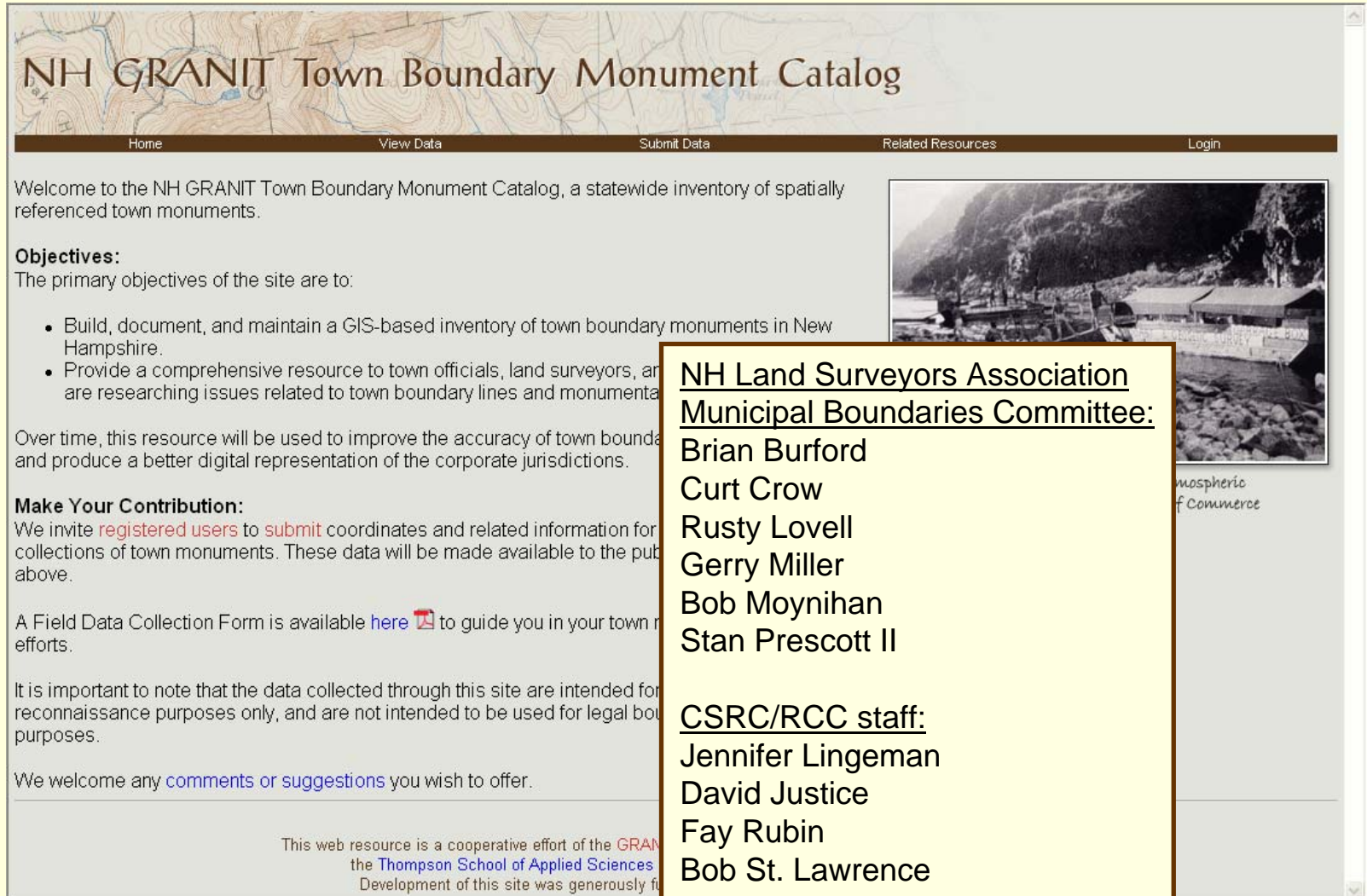
Legend

- Monument Boundary Points (User Submitted)
- ▲ Geodetic Control Points
- Roads**
 - Class I: primary system
 - Class II: secondary system
 - Class III: state recreational
 - Class IV: within compacts
 - Class V: municipal
 - Class VI: unmaintained municipal
- Political Boundaries**
 - State
 - County
 - Town
- Streams**
 - Perennial Stream
 - Intermittent Stream
 - Canal/Ditch
- Lakes**
 - Lake/Pond
 - Reservoir
- Rivers**
 - River
 - Canal/Ditch

Buttons: APPLY, RESULTS, LEGEND

Footer: GRANIT HOME, ABOUT, CONTACT GRANIT, FAQ, WHAT'S NEW! AUGUST, 2007, SET SCALE: 1:65,881

Town Boundary Monument Catalog: <http://boundary.granit.unh.edu>



NH GRANIT Town Boundary Monument Catalog

Home View Data Submit Data Related Resources Login

Welcome to the NH GRANIT Town Boundary Monument Catalog, a statewide inventory of spatially referenced town monuments.

Objectives:
The primary objectives of the site are to:

- Build, document, and maintain a GIS-based inventory of town boundary monuments in New Hampshire.
- Provide a comprehensive resource to town officials, land surveyors, and those who are researching issues related to town boundary lines and monumentation.

Over time, this resource will be used to improve the accuracy of town boundaries and produce a better digital representation of the corporate jurisdictions.

Make Your Contribution:
We invite **registered users** to **submit** coordinates and related information for collections of town monuments. These data will be made available to the public above.

A Field Data Collection Form is available [here](#) to guide you in your town monument efforts.

It is important to note that the data collected through this site are intended for reconnaissance purposes only, and are not intended to be used for legal boundary purposes.

We welcome any [comments](#) or [suggestions](#) you wish to offer.

This web resource is a cooperative effort of the GRANIT and the Thompson School of Applied Sciences. Development of this site was generously funded by the NH Land Surveyors Association.

**NH Land Surveyors Association
Municipal Boundaries Committee:**
Brian Burford
Curt Crow
Rusty Lovell
Gerry Miller
Bob Moynihan
Stan Prescott II

CSRC/RCC staff:
Jennifer Lingeman
David Justice
Fay Rubin
Bob St. Lawrence

atmospheric
of Commerce

Town Boundary Monument Catalog

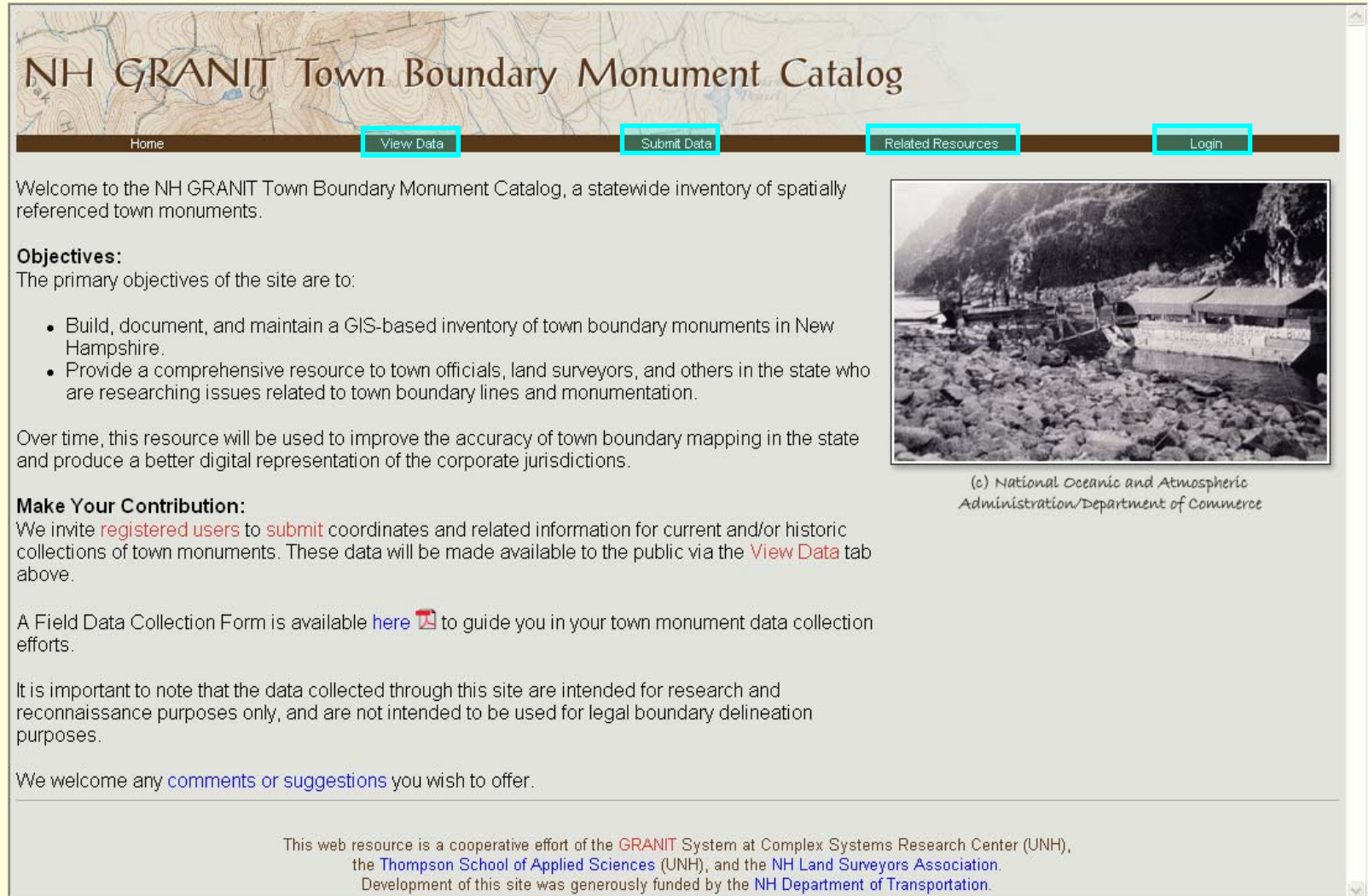
Purpose of site:

- Build, document, and maintain a GIS-based inventory of town boundary monuments in New Hampshire
- Provide comprehensive resource for town officials, land surveyors, and others in the state who are researching issues related to town boundary lines and monumentation.
- Not intended for legal boundary delineation purposes.

Long term:

- Improve accuracy of town boundary mapping

Basic Screens



The screenshot shows the main page of the NH GRANIT Town Boundary Monument Catalog. At the top, there is a title "NH GRANIT Town Boundary Monument Catalog" overlaid on a topographic map. Below the title is a navigation bar with four buttons: "Home", "View Data", "Submit Data", "Related Resources", and "Login". The "View Data" button is highlighted with a red box. The main content area contains a welcome message, a list of objectives, a section for user contributions, and a disclaimer. On the right side, there is a photograph of a rocky riverbank with a stone structure and a boat. Below the photo is a caption: "(c) National Oceanic and Atmospheric Administration/Department of Commerce". At the bottom, there is a footer with information about the project's funding and partners.

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(c) National Oceanic and Atmospheric Administration/Department of Commerce

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Login/Register

NH GRANIT Town Boundary Monument Catalog

Home View Data Submit Data Related Resources Login

User Registration

Note that throughout these data submission pages, required fields are in red.

First name:

Last name:

Affiliation:

Email:

Address:

City:

State:

Zip code:


Phone:

Land surveyor status: LLS

Choose a username:

Password:

Password (confirm):



(c) National Oceanic and Atmospheric Administration/Department of Commerce

Required fields: Red text

Submit Data - Overview

- User logs in/registers
- User submits a point
- User submits related documents (photos, etc.)
- System performs internal error check
- Point is added to database and is available
 - To view in tabular form
 - To download as .xls file
 - To view as map on GRANIT Data Mapper (geodetic control theme)
- NHLSA Committee reviews and flags data record

Submit Data

NH GRANIT Town Boundary Monument Catalog

Home View Data Submit Data Related Resources Logout

Monument Information

Required fields are in red.

Monument(s) in town of:

This site serves as a repository for spatially referenced town boundary data. For more information on collection methods, click on the help icon,

Method used to collect position:

- GPS
- Scaled off georeferenced map
- Coordinates unknown/populate from online map
- Other
- Derry
- Dixs Grant
- Dixville
- Dorchester
- Dover
- Dublin
- Dummer
- Dunbarton
- Durham
- East Kingston
- Easton
- Eaton
- Effingham
- Ellsworth
- Enfield
- Epping
- Epsom
- Errol
- Erving's Location
- Exeter
- Farmington
- Fitzwilliam
- Francestown
- Franconia
- Franklin

Monument Information

Required fields are in red.

Please note that coordinates are required for all monuments.

Collection Method: GPS

GPS information:

GPS unit used:

Type of processing conducted:

Estimated Positional Error (EPE)
as reported on your receiver:

— Select GPS —
— Process Type —
— EPE —
< 3 ft.
3 - 10 ft.
10 - 30 ft.
> 30 ft.

Date of data collection:

Please provide a 4 digit year and as much of
the date as you can.

— — —

Were you the original field data
collector?

Yes

Towns sharing this monument:

Hold down the control key (PC) or option key
(Mac) to select multiple towns.

Dover
Durham
Lee
Madbury

Enter the local identification number for
the monument, if any:

Enter the local name for the monument,
if any:

Location of monument:

Enter information about any local landmarks or
reference points that would help to identify the
location of this monument.

Other information, if any:

Coordinate system:

NH State Plane Feet NAD83

Northing (Y)

Easting (X)

Supporting documents/images:

There is a 5 megabyte limit on all supporting
documents and images.

Type: Image (.gif, .jpg, .tif)

Description:

Upload File:

Browse...

Submit and Exit

Submit and add additional monument


NH GRANIT Town Boundary Monument Catalog

[Home](#)[View Data](#)[Submit Data](#)[Related Resources](#)[Logout](#)


Monument Information

Required fields are in red.

Monument(s) in town of:

This site serves as a repository for spatially referenced town boundary monuments. For more information on collection methods, click on the help icon. 

Method used to collect position:


 

Instructions for collecting coordinates from the GRANIT Data Mapper:

When the GRANIT Data Mapper opens, you will see a map of the town you selected above.

Please be sure all pop-up blockers are turned off before accessing the GRANIT Data Mapper.

Step 1: Zoom in closer to the approximate monument location

1. Click on the Zoom In tool , located in the toolbar above the map area in the top left corner.
2. Click on the map and drag to draw a box around the area where the monument is located.


Step 2 (optional): Turn on an aerial photograph for reference

1. In the Layer Menu to the right of the map area, place a checkmark in the box under the Visible column next to NAIP 2003 Aerial Imagery.

| | | | |
|-------------------------------------|--|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | | | NAIP 2003 Aerial Imagery |
| <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | Regional Context |

2. Click the Apply button .
3. Zoom in close if necessary (see Step 1).

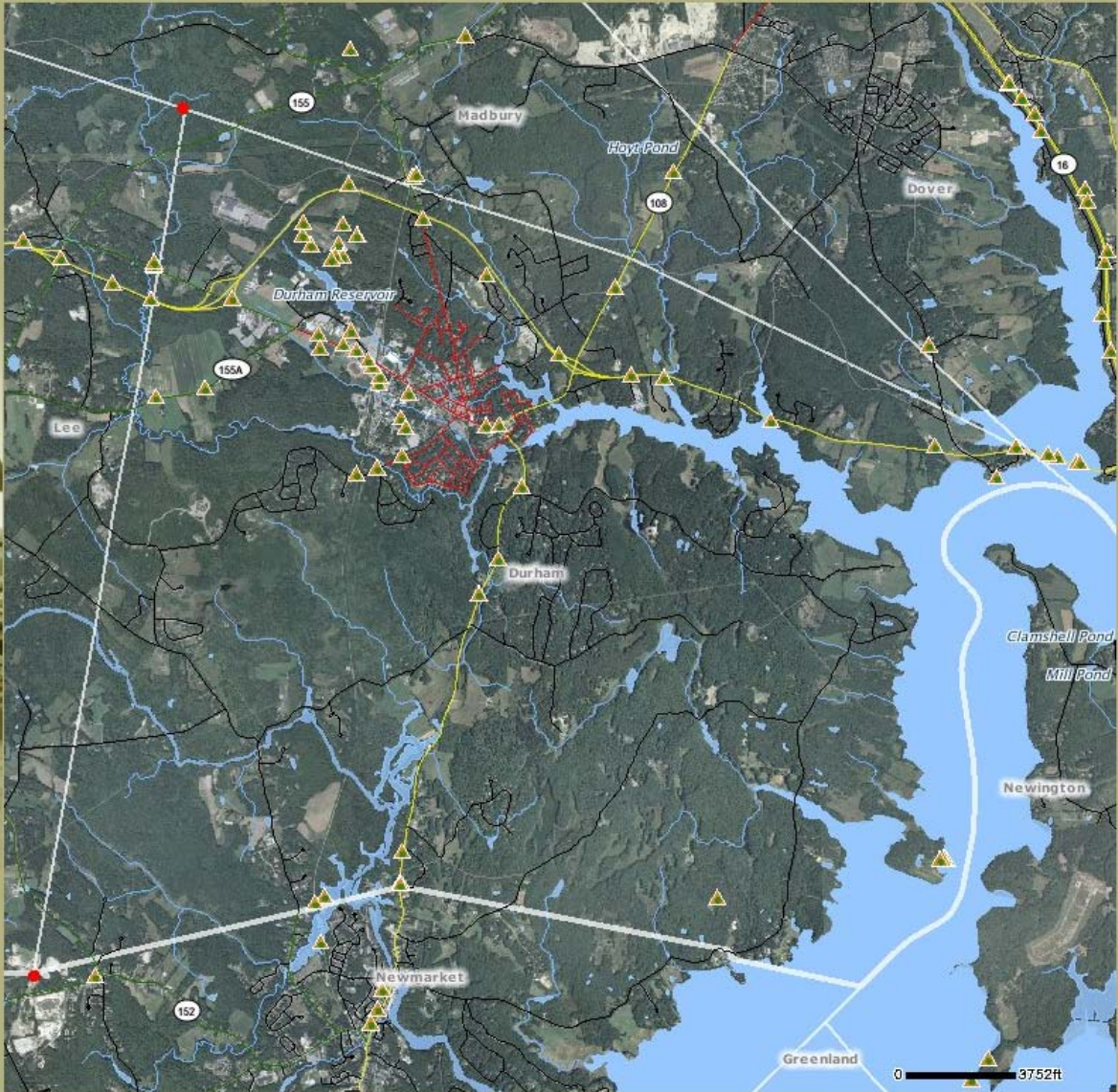
Step 3: Collect a coordinate of the monument location

1. Click on the XY Coordinate tool , located in the toolbar above the map area.
2. Click once on the monument location.
3. A new window will appear containing the resulting coordinates in NH State Plane Feet. Click the "Add Point to the Town Boundary website" link.

NH GRANIT-DATA-MAPPER



SITE HELP



GEODETIC CONTROL

SELECT A THEME ▼ ?

LAYERS THEME TOOLS UTILITIES OPTIONS

Layer Menu ?

| VISIBLE | ACTIVE | LABEL | LAYER NAME |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Political Boundaries |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Roads |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Water Bodies |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Stream Network |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Watersheds |
| <input type="checkbox"/> | <input type="checkbox"/> | | Utilities & Telecommunications |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | Geodetic Control Points |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | Boundary Monuments (User Submitted) |
| <input type="checkbox"/> | <input type="checkbox"/> | | Railroads |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Places of Interest |
| <input type="checkbox"/> | <input type="checkbox"/> | | DOQ 1998 Aerial Imagery |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | NAIP 2003 Aerial Imagery |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | Hillshade |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Regional Context |

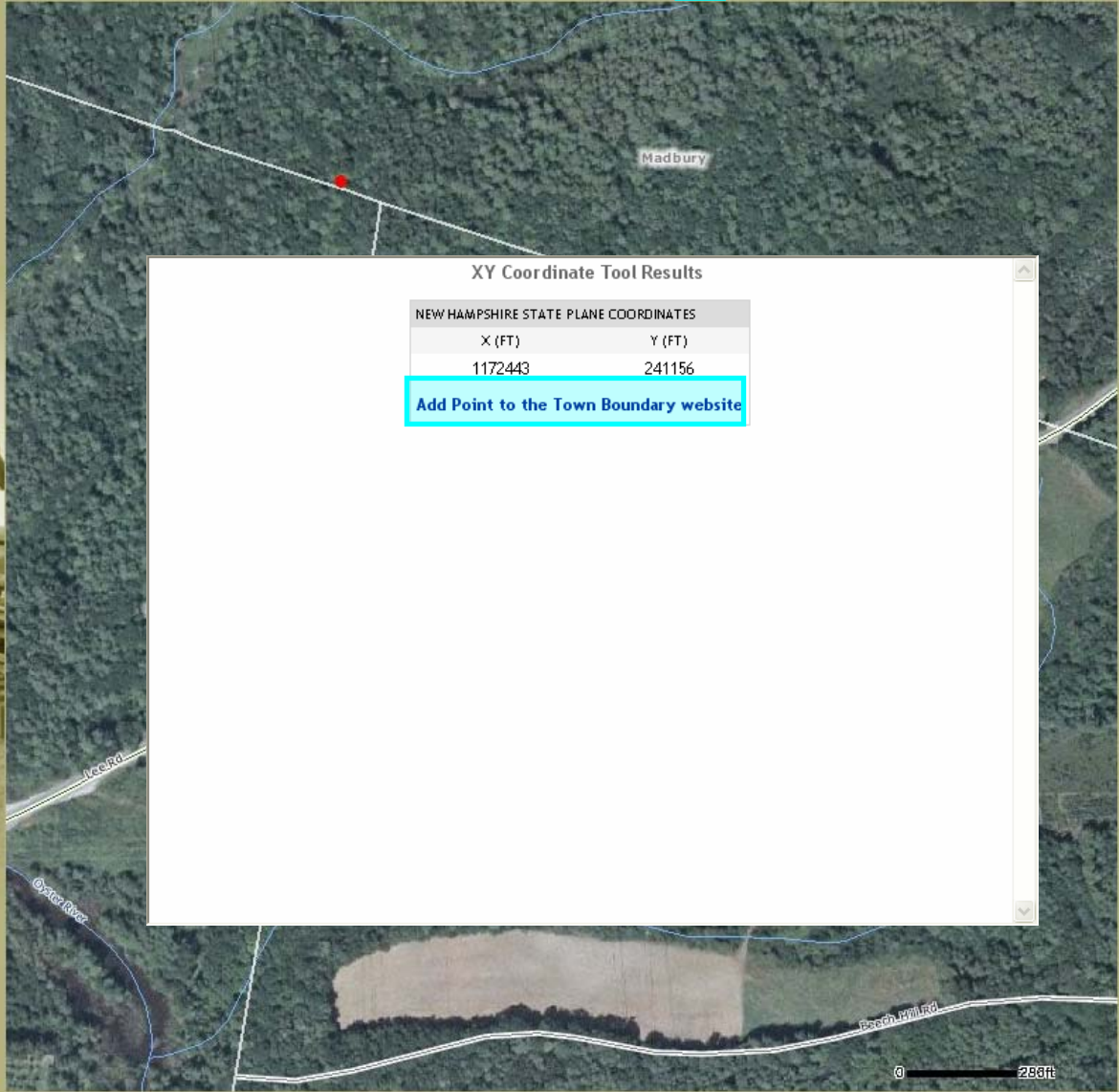
[GRANIT HOME](#)
[ABOUT](#)
[CONTACT GRANIT](#)
[FAQ](#)
[WHAT'S NEW! AUGUST, 2007](#)

SET SCALE: 1:55,410 ▼

[APPLY](#)
[RESULTS](#)
[LEGEND](#)

Layer Menu ?

| VISIBLE | ACTIVE | LABEL | LAYER NAME |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Political Boundaries |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Roads |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Water Bodies |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Stream Network |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Watersheds |
| <input type="checkbox"/> | <input type="checkbox"/> | | Utilities & Telecommunications |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | Geodetic Control Points |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | Boundary Monuments (User Submitted) |
| <input type="checkbox"/> | <input type="checkbox"/> | | Railroads |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Places of Interest |
| <input type="checkbox"/> | <input type="checkbox"/> | | DRG Topo Maps |
| <input type="checkbox"/> | <input type="checkbox"/> | | DOQ 1998 Aerial Imagery |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | NAIP 2003 Aerial Imagery |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Regional Context |



XY Coordinate Tool Results

| NEW HAMPSHIRE STATE PLANE COORDINATES | |
|---------------------------------------|--------|
| X (FT) | Y (FT) |
| 1172443 | 241156 |

[Add Point to the Town Boundary website](#)

Required fields are in red.

Please note that coordinates are required for all monuments.

Collection Method: Coordinates unknown/populate from online map

Date of data collection: -

Please provide a 4 digit year and as much of the date as you can.

Were you the original field data collector? Yes

Towns sharing this monument: Hold down the control key (PC) or option key (Mac) to select multiple towns.

Barrington
Durham
Epping
Lee

Enter the local identification number for the monument, if any:

Enter the local name for the monument, if any:

Location of monument: Enter information about any local landmarks or reference points that would help to identify the location of this monument.

Other information, if any:

Coordinate system: NH State Plane Feet NAD83

Northing (Y) 241152

Easting (X) 1172443

Supporting documents/images: There is a 5 megabyte limit on all supporting documents and images.

Type: Image (.gif, .jpg, .tif)

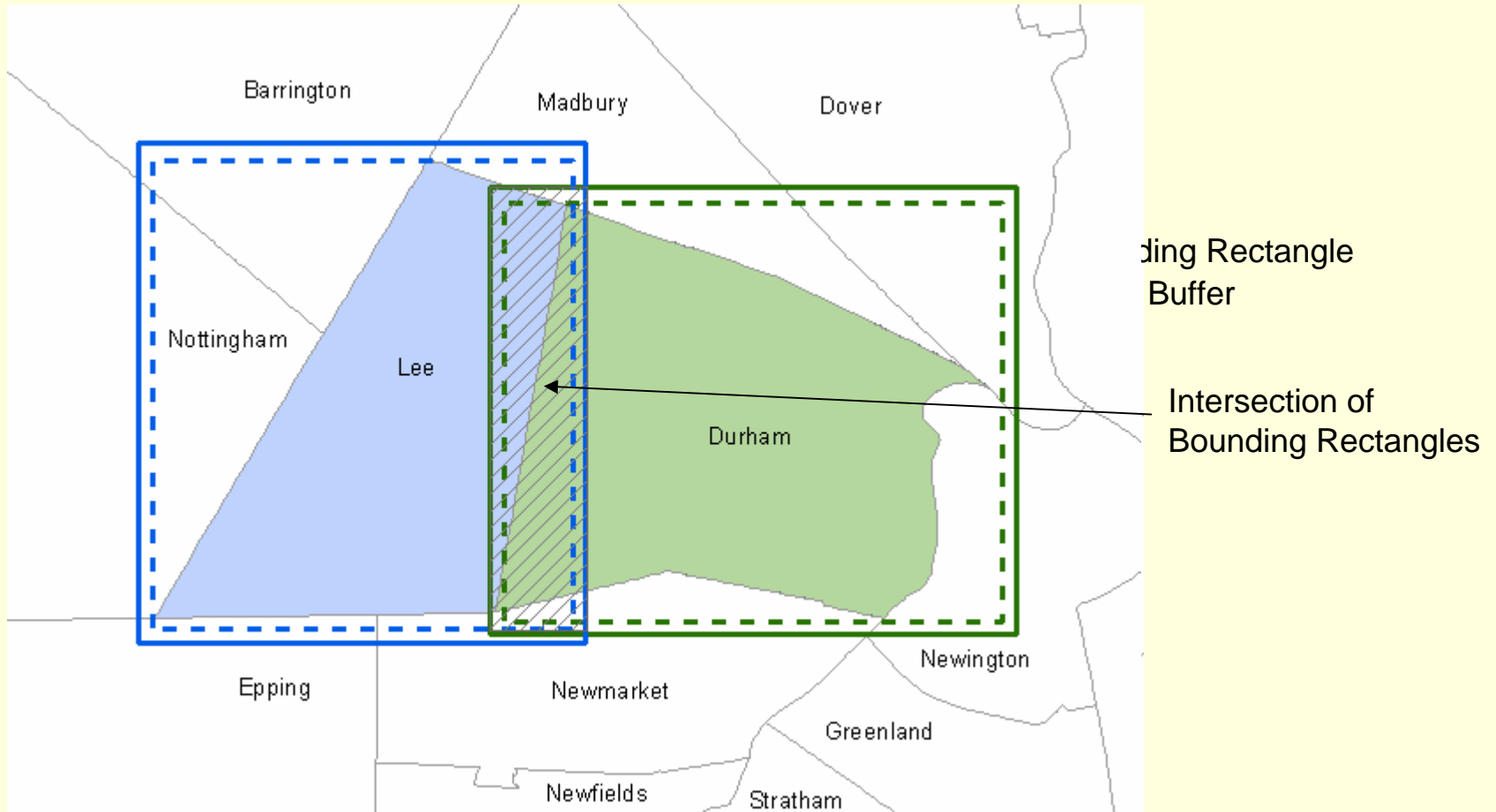
Description:

Upload File:

Assorted Data Submission Details

- Required fields vs. optional fields
- Site offers multiple options for coordinate entry, including US National Grid
- All coordinates entered are stored in NH State Plane feet, NAD83 (using NGS software).
- Original coordinate entry values are preserved.
- Size limitation on photos/docs – 5 MB.
- If collecting data in field, data sheet available on front page for download.
- Recommend full documentation.

Internal Error Checking



Data Viewing

NH GRANIT Town Boundary Monument Catalog

Home [View Data](#) Submit Data Related Resources Logout


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(c) National Oceanic and Atmospheric Administration/Department of Commerce

Data Viewing

Tabular viewing options:

- Sort on any field in ascending/descending order
- Sort on multiple fields
- Add/drop fields from data view
- Filter (query) to view only subsets of records
- Save records as excel file
- View all details for a single record
 - Download associated photos/documents
 - View point on GRANIT Data Mapper

NH GRANIT Town Boundary Monument Catalog

[Home](#)[View Data](#)[Submit Data](#)[Related Resources](#)[Logout](#)[view](#)[add column](#)[filter column](#)[sort ascending](#)[sort descending](#)[delete column](#)**Monument List**

Result(s) (1 - 3) of 3

[New](#) | [Refresh](#) | [Printer Friendly](#) | [Excel](#) | [Save](#)Filter: Towns like "Durham" ([click to remove](#))Sort: Towns ([click to remove](#))

| <input checked="" type="checkbox"/> | Towns | Local Name | Submitter | Collection Date | National Grid | Latitude | Longitude | State Plane X | State Plane Y | Method | Status |
|-------------------------------------|-------------|------------|------------------|-----------------|-----------------|----------|-----------|---------------|---------------|--|--------------|
| <input checked="" type="checkbox"/> | Durham, Lee | | guest, guest | | 19TCH4054680396 | 43.15951 | -70.96135 | 1172443 | 241152 | Coordinates unknown/populate from online map | Not Reviewed |
| <input checked="" type="checkbox"/> | Durham, Lee | | Moynihan, Robert | 10/2005 | 19TCH4059080791 | 43.16308 | -70.96092 | 1172548 | 242457 | GPS | Not Reviewed |
| <input checked="" type="checkbox"/> | Durham, Lee | | Moynihan, Robert | 10/2005 | 19TCH3875971844 | 43.08217 | -70.98083 | 1167475 | 212920 | GPS | Not Reviewed |

[View All results](#) Page (1 of 1)

GRANIT System at Complex Systems Research Center (UNH)
Thompson School of Applied Sciences (UNH)
NH Land Surveyors Association

NH GRANIT DATA MAPPER



SITE HELP

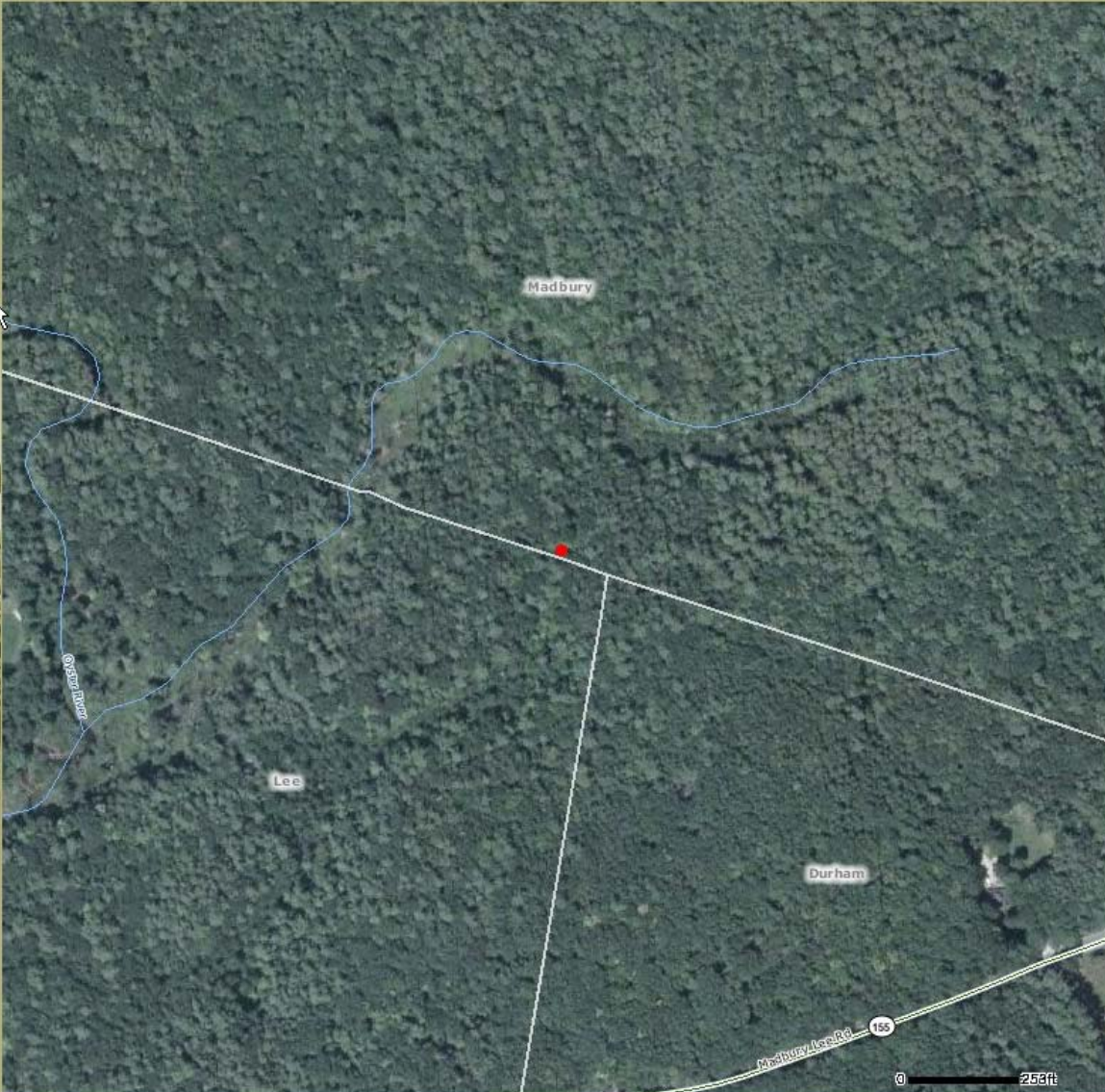
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|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Political Boundaries |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Roads |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Water Bodies |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Stream Network |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Watersheds |
| <input type="checkbox"/> | <input type="checkbox"/> | | Utilities & Telecommunications |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | Geodetic Control Points |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | Boundary Monuments (User Submitted) |
| <input type="checkbox"/> | <input type="checkbox"/> | | Railroads |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Places of Interest |
| <input type="checkbox"/> | <input type="checkbox"/> | | DRG Topo Maps |
| <input type="checkbox"/> | <input type="checkbox"/> | | DOQ 1998 Aerial Imagery |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | NAIP 2003 Aerial Imagery |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Regional Context |



GRANIT HOME

ABOUT

CONTACT GRANIT

FAQ

WHAT'S NEW! AUGUST, 2007

SET SCALE: 1:3,731 ▼

APPLY

RESULTS

LEGEND

Another data viewing option:

Access geodetic control theme in GRANIT Data Mapper ...

NH GRANIT Town Boundary Monument Catalog

[Home](#)[View Data](#)[Submit Data](#)[Related Resources](#)[Login](#)

You are seeing a limited set of information because you are not logged in as a user of the Town Boundary Monument site. For full viewing privileges, please [visit the site](#) and login. (If you are a first-time user, you will need to register as a site user prior to logging in.)

Monument ID #447

[View Point on Map](#)

Date of data collection:

Submitter: guest guest
Workshop - August 11, 2007

How data was collected: Coordinates unknown/populate from online map

Towns involved: Durham, Lee

Coordinates: Latitude: 43.15951
Longitude: -70.96135
Northing (Y): 241152
Easting (X): 1172443
National Grid: 19TCH4054680396Coordinates (as entered): Coordinate Format: NH State Plane Feet NAD83
Northing (Y): 241152
Easting (X): 1172443
Additional Info:

Additional documents:

GRANIT System at Complex Systems Research Center (UNH)
Thompson School of Applied Sciences (UNH)
NH Land Surveyors Association

Related Resources

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Related Resources

NH GRANIT Town Boundary Monument Catalog

Home View Data Submit Data Related Resources Logout

Related Resources

NATIONAL GEODETIC SURVEY/NOAA

- General Web Site
<http://www.ngs.noaa.gov>
- Online Geodetic Toolkit
<http://www.ngs.noaa.gov/TOOLS/>
- Downloadable PC Software
http://www.ngs.noaa.gov/PC_PROD/pc_prod.shtml

NH STATE AGENCIES AND ORGANIZATIONS OF RELEVANCE


- NH Department of Transportation
<http://www.nh.gov/dot/>
- NH Division of Archives and Records Management
<http://www.sos.nh.gov/archives/>
- NH GRANIT Clearinghouse
<http://www.granit.sr.unh.edu>

NH STATUTES

- a. Tables of Contents
 - Title I: The State and Its Government (Chapters 1 - 21-Q)
<http://www.gencourt.state.nh.us/rsa/html/NHTOC/NHTOC-I.htm>
 - Title II: Counties (Chapters 22 -30-B)
<http://www.gencourt.state.nh.us/rsa/html/NHTOC/NHTOC-II.htm>
 - Title III: Towns, Cities, Village Districts, and Unincorporated Places (Chapters 31 - 53-E)
<http://www.gencourt.state.nh.us/rsa/html/NHTOC/NHTOC-III.htm>
- b. Relevant Statutes
 - Title I, Chapter 1: Perambulation of the New Hampshire Line
<http://www.gencourt.state.nh.us/rsa/html/I/1-1.htm>
 - Title I, Chapter 1-A: New Hampshire Coordinate System
<http://www.gencourt.state.nh.us/rsa/html/NHTOC/NHTOC-I-1-A.htm>
 - Title III, Chapter 51: Town Lines and Perambulations of Boundaries
<http://www.gencourt.state.nh.us/rsa/html/III/51/51-mrg.htm>

US NATIONAL GRID SYSTEM (USNGS)

- About the USNGS
<http://www.esri.com/news/arcuser/0705/usng1of2.html>
- Federal Geographic Data Committee (FGDC) Standard
<http://www.fgdc.gov/standards/projects/FGDC-standards-projects/usno/index.html>



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Questions or Comments?