Trail Conditions/Tasks Completed on NPS *land*: Isle au Haute

6/7/02

Joshua Bubier
Thomas Coleman
Jonathan Keating
Ross A. Banach

Introduction

The University of Maine forestry students arrived on Isle au Haute with the intent to mark the already existing park trails on the island. The students also pointed out areas of interest, such as an old homestead and an old cemetery. Starting on the twenty-ninth of May 2002, the crew walked to Duck Harbor Mountain Trail by way of the Duck Harbor Trail and continued onto the Eben's Head Trail using the Trimble Pro XR to record points at sign posts and the Trimble Geo Explorer 3 GPS receiver to map out the trail as they progressed. On the second day, the thirtieth of May 2002, they mapped the Nat Merchant Trail, the Ridge Trail, and part of the Long Pond Trail using only the Trimble Geo Explorer 3 GPS receiver.

The data that was collected has been compared to the pre-existing USGS maps and the NPS map. Also included are notes about each trail concerning level of difficulty, problems had with navigation on the trails (due to fading blaze marks), hazards (fuel loading), stand types, campground condition, and as said before points of interest.

Discussion

Tasks

While on Isle au Haute, the University of Maine forestry crew completed GPS mapping of the National Park Service trail system. This task was completed with a Trimble Geo Explorer 3 handheld GPS receiver and Trimble Pro XR backpack unit. While mapping the trails the crews also recorded points on benchmarks, a cemetery, sign posts, and anything that might be of interest or of importance to anyone conducting research or visiting the island.

Trail Conditions

Trail conditions experience were moderate to good. The MDI trail crew had recently improved the trails. Most trials were easily navigated. There was a lack of blazing combined

with inconspicuous blazing and cairns which at times made the trail hard to find and follow. Signs and trail markers however, were found to be in good condition (with the exception of a few signs that had fell over probably due to rot or decay). The presence of downed woody material was extreme in many of the areas that we traveled especially on Eastern Head. The majority of the fuel was composed of dead Spruce trees and limbs.

Although the trail conditions were overall in good condition there were some issues other than the fuel load and lack of blazing. For example, the trails could use have difficulty ratings on the visitor maps. This is only a suggestion due to the amount of rough trails and remoteness of the area. (if someone were to get in trouble it would seem to be extremely difficult to extract the person from the island).

Campground condition

Camping at Isle au Haute allowed us to experience the condition of the campground in Duck Harbor. The campground was recently updated with new bathroom facilities, and had animal proof boxes which was a great advantage in keeping the local squirrel population rom consuming campers food. Water was obtained from a seemingly new pump a few hundred yards down the road. The pump was pleasing to the eye, and we were probably some of the first people to use it this camping season and the water was a little rusty colored at first. Although these features were great, there were a few items that could use some attention. For example, the fire rings located at the campsites were too close to the cedar roofs of the lean-to's. This could cause a major problem due to the massive fuel load on the island.

Summary

The trails were well maintained with the exception of the Duck Harbor Mountain Trail

which could use some more blue blaze paint throughout the trail. This could be something that the University students might do if they were to come back and work on the island again during summer camp. As far as the visitor's map, the trails were not very well represented as far as accuracy when compared to the map created by the students with the GPS receivers. However, the map was close enough that you could get a general idea of how long the hike would take and where it would take you.

Overall, the campground was nice and well equipped with all the necessities that a camper would need during a stay there. The trails were well maintained but the students felt that they could have done more to help out the park other then just mapping out the trails with GPS receivers because they were able to finish their tasks with time to spare. Perhaps if another University of Maine group were to return for another summer session, assignments such as: blazing trails, taking notes about specific fuel loading sites, or making note of forest stand types and notes on regeneration.

The last recommendation we have is to possibly put up small interpretation stations at certain spots in the park where you could input some interesting feature of the land, history of a certain area (fire history, island history, living, etc.), or any other facts and/or myths of the island and/or its people who have lived there for so long. This would add a lot of interest to the park's trail, especially if it was a cloudy and foggy day such as we had when we did all of our hiking and the views just aren't there.

METADATA QUESTIONNAIRE
Acadia National Park

Please fill out all four sections completely for each data layer you are submitting to the Park.

SECTION 1: This section gathers contact information about the person completing this form, in case the park needs to clarify some of the information in the questionnaire.

Date you completed this form: 6/7/02

For person completing this form:

Name: Josh Bubier

Address: _____

_____

Phone Number: _____

E-Mail: _____

SECTION 2: Questions in this section gather information used to identify and describe the contents of your data layer.

1. NAME OF THE DATA LAYER: Trails.E00

2. For the person who created the data layer (if different from the person completing this form):

Name: Same as above

Address: _____

_____

Phone Number: _____

E-Mail: _____

3. What does the data layer contain?

POINTS _____ which represent _____

LINES X which represent ~~Hiking~~ Hiking Trails

POLYGONS/AREAS _____ which represent _____

ANNOTATION/TEXT _____ which describes _____

4. For what purpose was this data layer created (please describe):

UMO Forestry Camp / NPS Request

5. What is the date of the last revision, change or update to this data layer?
(MM/DD/YYYY): 6/7/02

6. When did you actually collect this information and/or map these locations?
DATE or range of dates: (MM/DD/YYYY) 5/29/02 - 5/31/02

7. What is the status of this data layer (pick one):
COMPLETE X

IN PROGRESS, MORE DATA TO BE ADDED _____
When do you expect to add additional data?

INCOMPLETE, NO ADDITIONAL WORK PLANNED _____
Please describe what is lacking:

8. Is the data layer part of a larger work or related to a particular study? YES X NO _____
If YES, give a complete reference for that work or study:
UMO Forestry Camp (Also

9. Does the data layer contain information related to
a) Rare, threatened, or endangered plants or animals?
YES _____ NO _____
IF YES, please describe briefly:

b) Archeological or cultural resources?
YES _____ NO _____
IF YES, please describe briefly:

10. Please list some keywords describing the contents and/or purpose of this data layer:

11. Which of the following geographic areas would include all of the features depicted in your data layer? (please pick the smallest area that would work):
Mount Desert Island (MDI) only _____
MDI and surrounding islands (Bar, Porcupines, Cranberries, Baker, Bartlett) _____
Schoodic Peninsula (SCH) only _____
Isle au Haut (IAH) only ✓
MDI and SCH _____
MDI and IAH _____
MDI, IAH, and SCH _____
Penobscot Bay shipping channel to Hancock/Washington County line _____
Other (please describe!): _____

SECTION 3: Questions in this section will tell future users of this data layer what information is contained in the database associated with each feature. Examples are given in the shaded part of the table.

Please complete the following table listing all database fields (attributes) you added. You do not need to list ArcInfo's default fields such as AREA, LENGTH, COVERNAME#, COVERNAME-ID, RPOLY#, LPOLY#, etc. However, if you calculated a field such as ACRES (which contains the area of a polygon in different units) or MILES (length of a line in miles), you must describe it.
Please copy additional pages of the table if you run out of room or add rows if you are completing this form digitally.

EXAMPLES:

ITEM NAME (use ITEMS command in ARC or TABLES)	DATABASE STRUCTURE (use ITEMS command in ARC or TABLES)	DEFINITION/DESCRIPTION OF THE ATTRIBUTE	SOURCE OF THE DEFINITION/ DESCRIPTION	UNITS OF MEASURE (if applicable)	SET OF POSSIBLE VALUES	OTHER CITATION OR REFERENCE WITH INFORMATION ABOUT THE ATTRIBUTE OR ATTRIBUTE VALUES
LUTYPE	2,2,C	LUTYPE describes what kind of activities are carried on at the point. Codes include: 1 - single family residence, 2 - multiple family residence, 3 - commercial, 4 - municipal, 5 - agricultural, 6 - industrial	KC Anderson et al. provide the first digit of LUTYPE codes. Structural codes for Municipality, Zoning, Parcel, and Other Codes are KC additions.	Not Applicable	Municipality, Zoning, Parcel, Other Codes	Not applicable
TOWNSHIP	20,20,C	The name of the township represented by the polygon	Name taken from the USGS 7.5 minute quadrangle maps	Not applicable	Bonita, Cypress, Mountain View, Sunny Glen, Vernon	Not applicable
DIST	6,6,N,0	The distance from the point to the nearest road	KC Anderson et al.	Meters	Minimum value = 0, Maximum value = 1,000	Not applicable
ADDRESS	30,30,C	Mailing address of the owner	US Postal Service	Not applicable	Any valid address	Not applicable

DATABASE ATTRIBUTE INFORMATION

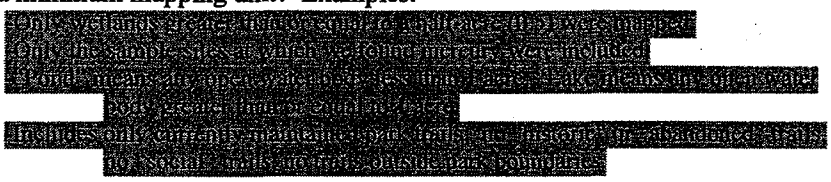
Please describe each attribute in the PAT (polygon/point attribute table) and AAT (arc attribute table) that is not an ArcInfo default attribute. The idea is to describe the attributes so someone *completely* unfamiliar with them could understand and use them!

ITEM NAME	DATABASE STRUCTURE (from ARC or TABLES)	DEFINITION/DESCRIPTION OF THE ATTRIBUTE	SOURCE OF THE DEFINITION/ DESCRIPTION	UNITS OF MEASURE (if applicable)	SET OF POSSIBLE VALUES	OTHER CITATION OR REFERENCE WITH INFORMATION ABOUT THE ATTRIBUTE OR ATTRIBUTE VALUES

SECTION 4: Questions in this section will help future users understand how your spatial data was created, evaluate its quality and accuracy, and determine if it will be useful to them. Shaded text denotes examples.

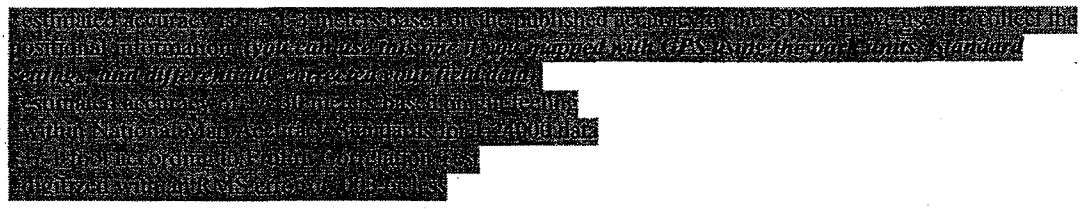
1. Is this data layer, in accordance with Acadia National Park GIS Standards, in Universal Transverse Mercator (UTM) coordinates and projected using the NAD83 datum?
   YES ___/___ NO _____
   IF NO, what coordinate system and datum is used and why is it not to standard?

2. Describe any rules you used to create the data set. For instance, how did you decide what to include/exclude? Did you use a minimum mapping unit? Examples:



Currently Maintained Park trails and roads

3. Please list your estimate of the horizontal accuracy of the positional data and how you arrived at that estimate. Examples:



trail

point

1-3 M

4. **PLEASE FILL OUT THE FOLLOWING TWO TABLES ACCORDING TO THESE DIRECTIONS:**

The **Source Information Table** asks you to list and describe all the sources of information (including other data layers) you used to create your data layer. The **Processes & Operations Table** asks you to describe the processing steps you took to combine the sources into your data layer. *These two tables are related*—each source should be "used" in a process. Sometimes a processing step produces an intermediate source that should be described in the source table. An example is provided in the grey-shaded boxes of the two tables. Please include as much detail as possible including software version numbers, critical settings, tolerances, etc. *You may find it helpful to fill these tables out as you are creating your data layer.*

Please copy additional pages or add additional rows if you need more space. Remember, the idea is to describe what you did well enough that someone else could understand, and perhaps replicate, what you did!

SOURCE INFORMATION TABLE

Please list and describe each source of information or data layer used in the creation of the data layer you are describing.

Boxes highlighted in grey are examples related to the examples in the Processes & Operations Table.

SOURCE NAME	NARRATIVE DESCRIPTION OF SOURCE AND THE INFORMATION IT CONTAINS AND CONTRIBUTES	ORIGINATOR OR CREATOR OF THE SOURCE DATA	DATE OF SOURCE MATERIAL	SCALE OF SOURCE MATERIAL	SOURCE MEDIA (digital, paper, mylar, etc.)	IS THIS SOURCE PART OF or RELATED TO A LARGER WORK? IF SO, GIVE CITATION
GPSDATA	Rare plant locations depicted by points collected with a Trimble ProXL GPS set to following critical settings: PDOPMask=6, SNRMask=6, Manual3Dmode, LoggingInterval=5sec, MinimumPositions=3G, ElevationMask=15. Rated accuracy of differentially corrected files with this GPS is +/-3-5 meters. GPS files were differentially corrected using base station files from the University of Maine at Orono (Louis Morin, sysop) using Trimble's Pathfinder Office ver2.11.	K. Anderson operated the GPS. L. Gregory assisted in locating the plants.	GPS field work conducted May to Sept. 1999	Not applicable	digital	Greene Grant. 1990. Rare plants of Acadia National Park.
PLANTLOC	Arc/Info point coverage, generated from GPSDATA, showing the location of rare plants. Attributes include scientific name and ID number.	K. Anderson and L. Gregory	Sept. 1999	Not applicable	Digital	Not applicable
SOILS	Arc/Info polygon coverage of soil types for Hancock County. SSURGO soils data from NRCS.	NRCS (Natural Resource Conservation Service)	1991	1:24000	Digital	Not applicable
Trails	Location of Currently maintained Park trails on Isle Au Haut	Josh Bobier	May 2002	N/A	Digital	N/A

PROCESSES & OPERATIONS TABLE

Please list and describe the major processing steps you took in the creation of this data layer.

Boxes highlighted in grey are examples related to the examples in the Source Information Table

You do NOT need to document every CLEAN or BUILD in complex editing sessions.

SOURCES USED (must reference a source listed in the SOURCE TABLE)	PROCESS DESCRIPTION (Describe what was done and how you did it. Include tolerances used, software versions, etc.	PROCESS DATE	SOURCE PRODUCED	NAME AND CONTACT INFORMATION for the party responsible for the processing step.
GPSDATA	Points exported from Pathfinder Office ver 2.11 to ArcInfo generate format. In ArcInfo (ver 7.2.1), GENERATE was used to create a GIS data layer of the points. The data layer was BUILDed for points. About 10 of the points were checked to ensure that the attribute information entered in the field was still associated with the correct point. all the attributes checked were correct.	9/15/1999	PLANTLOC	Karen Anderson Geographer (GIS Specialist) Acadia National Park P.O. Box 177 Bar Harbor, ME 04609 207-288-5463 (voice) karen_b_anderson@nps.gov
PLANTLOC SOILS	The following ArcInfo command was executed: IDENTITY PLANTLOC SOILS RPSOIL POINT # JOIN All attributes from SOILS except FLD_SYM were DROPITEMed from RPSOIL's point attribute table (PAT). This produced the data layer being described (RPSOIL) -- an ArcInfo point cover with attributes about the rare plant and the soil type in which it is likely to be growing.	9/22/1999	RPSOIL	SAME AS ABOVE
Trails	Exported from Pathfinder office version 2.80 into MapInfo	6-1-02	Trails	Louis Maria UMaine Orono, ME

$\frac{x}{2}$

METADATA QUESTIONNAIRE
Acadia National Park

Please fill out all four sections completely for each data layer you are submitting to the Park.

SECTION 1: This section gathers contact information about the person completing this form, in case the park needs to clarify some of the information in the questionnaire.

Date you completed this form: 6/7/02

For person completing this form:

Name: Thomas Coleman

Address: _____

_____

Phone Number: _____

E-Mail: _____

SECTION 2: Questions in this section gather information used to identify and describe the contents of your data layer.

1. NAME OF THE DATA LAYER: Points.E00

2. For the person who created the data layer (if different from the person completing this form):

Name: Same as above

Address: _____

_____

Phone Number: _____

E-Mail: _____

3. What does the data layer contain?

POINTS X which represent Signs + landmarks

LINES _____ which represent _____

POLYGONS/AREAS _____ which represent _____

ANNOTATION/TEXT _____ which describes _____ _____

4. For what purpose was this data layer created (please describe):

UMO Forestry camp/ NPS request

5. What is the date of the last revision, change or update to this data layer?
(MM/DD/YYYY): 6/7/02

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DATE or range of dates: (MM/DD/YYYY) 5/29/02 - 5/31/02

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Please describe what is lacking:

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If YES, give a complete reference for that work or study:
UMO Forestry Camp (Also have some lines)

9. Does the data layer contain information related to
a) Rare, threatened, or endangered plants or animals?
YES _____ NO X
IF YES, please describe briefly:

b) Archeological or cultural resources?
YES _____ NO X
IF YES, please describe briefly:

10. Please list some keywords describing the contents and/or purpose of this data layer:
Trail signs / landmarks

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MDI and SCH _____
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LANDUSE	C 2 0	TYPE describes what kind of activities are carried out by the people living or working in a single family residence (1= single family residence, 2= multiple family residence, 3= commercial, 4= municipal, 5= agricultural, 6= vacant, 7= industrial)	USGS Anderson Level II Codes for Municipalities (1990's Mass. Department of Revenue Codes)	Not Applicable	Minimum value: 1 Maximum value: 7	No applicable
TOWN NAME	C 20 0	The name of the town as expressed by the polygon	Name of the town as spelled by the Mass. Department of Revenue	Not Applicable	Any Upper Middlesex Town	No applicable
ADDRESS	C 100 0	Mailing address of the owner of the property	US Postal Service	Not applicable	Any valid mailing address	not applicable

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   IF NO, what coordinate system and datum is used and why is it not to standard?

2. Describe any rules you used to create the data set. For instance, how did you decide what to include/exclude? Did you use a minimum mapping unit? Examples:

[redacted]

Currently Maintained Park Trails
Junctions of Maintained Park trails and roads
Significant Landmarks

3. Please list your estimate of the horizontal accuracy of the positional data and how you arrived at that estimate. Examples:

[redacted]

1-3M

4. **PLEASE FILL OUT THE FOLLOWING TWO TABLES ACCORDING TO THESE DIRECTIONS:**

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PLANTLOC	Arc/Info point coverage, generated from GPSDATA, showing the location of rare plants. Attributes include scientific name and ID number.	K Anderson and D Gregory	Sept 1999	Not applicable	Digital	Not applicable
SOILS	Arc/Info polygon coverage of soil types for Hancock County. SSURGO soils data from NRCS.	NRCS (Natural Resource Conservation Service)	1991	1:24000	Digital	Not applicable
Points	trail/road junctions significant landmarks	Thomas Coleman	May 2002	N/A	Digital	N/A

PROCESSES & OPERATIONS TABLE

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Points	Points exported from Pathfinder office version 2.80 to MapInfo	6-1-02	Points	Louis Morin Prof. UMaine Orono, ME

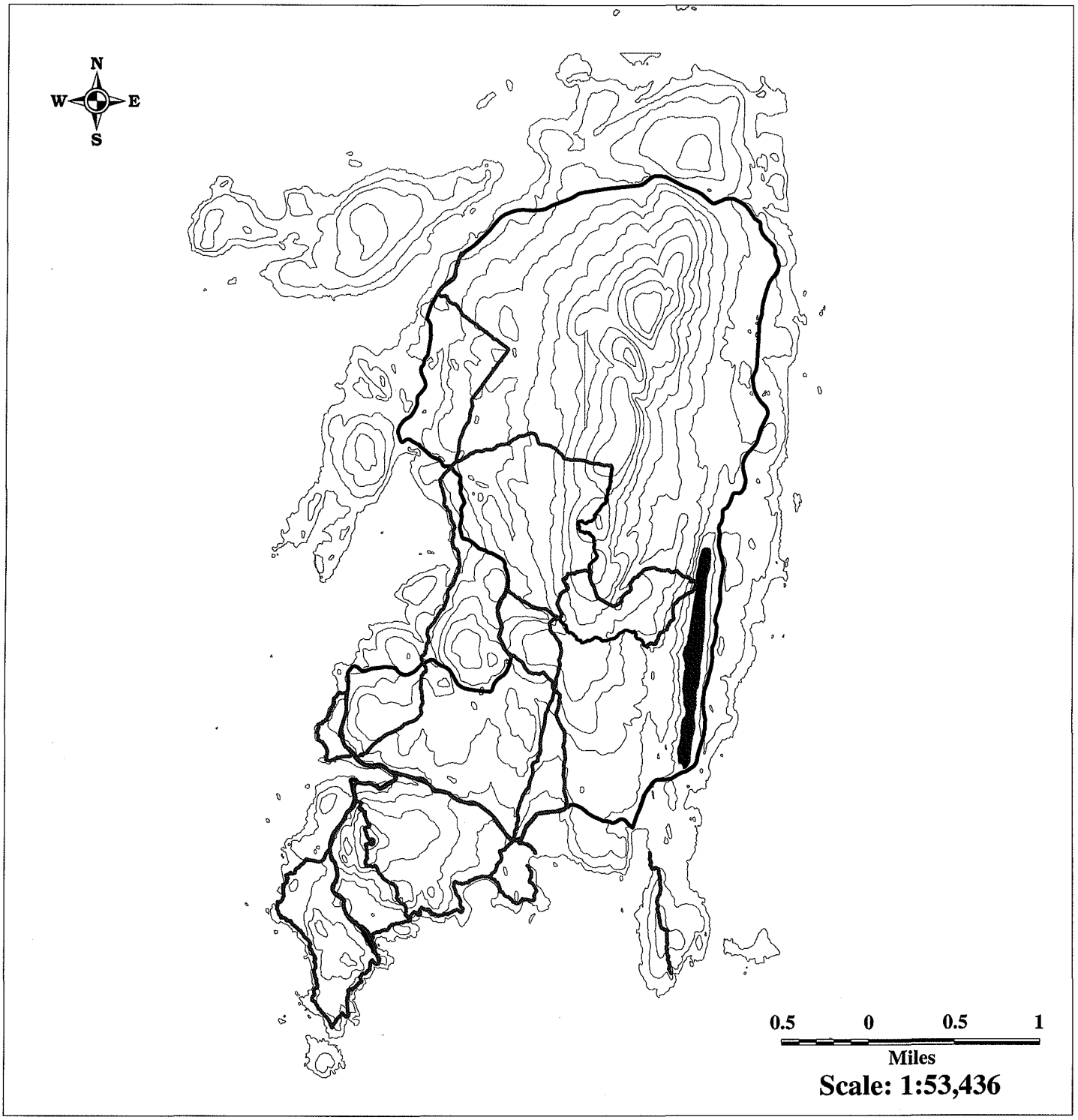
List of Signs and Landmarks GPSed

Comment
goatmedianridgejun
medianridgegoat
mediangoat
medgoat
duckhgrbgoatjunc
G0AT SPUR
PRPLN
Park boudary marker on road,
Park boundary marker on roac
Duck harbor trail head
Duck hbr trail x Bowditch trail
Duck hbr trail x duck harbor rd
Duck hbr trail x coastal rd
Duck hbr trail bridge
Duck hbr trail x deep cove trail
Duck hbr trail x rd to town
FIRE
FIRE
DUCK HAR PEIR
DUCK HARBOR MOUNTAIN
DHARBOR MOUNTAIN TRAIl
WEST HEAD TH
NPSBoundry2
NPS Boundry1
Median Ridge Trail
NPSEnclosure1
NPSEnclosure2
Rock Wall
NPSEncloure3
SURVEYSTAKE
LONG POND/ Blowditch
LONGPOND/blowditch
Goat Trail Sign
goat2
duckharbor
dbh
duckharb
duckharb
duckhar2
goattrail
GOATTRAILEND
TOROAD
HOUSE
GOATTRAILEND
TURN
Long Pond Junction
BOWDITCHJOG
BOWDUCKJUN

List of Isle au Haute Trails GPSed

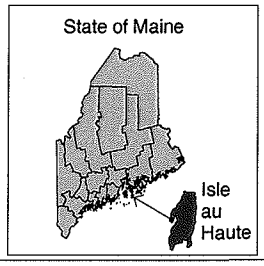
Trail Name	Complete?
Goat/MerchantTrail	Yes
Bowditch trail	No
Western Head Trail A	Yes
Western Head Trail B	Yes
Eben's head TRAIL	Yes
ROAD	Yes
G0AT TRAIL	Yes
Goat spur trail	yes
Median ridge trail	Yes
Goat trail	Yes
Goat Trail	Yes
Goat Trail	Yes
Goat Trail	Yes
Duck harbor trail	Yes
Nat Merchant Ttail	Yes
FIRE	Yes
Duck harbor Mountain Trial	yes
EAST HEAD	yes

Isle au Haute Hiking Trails
Acadia National Park



Legend

- Long Pond
- Road
- Mapped Trail
- Contour Line (50 Ft. Interval)
- 1994 Compass Trail



Notes:
Cartographer: Thomas Coleman 6/7/02
Projection: UTM, Zone 19
Datum: NAD 83
Town of Isle au Haute
County of Knox