

Great Lakes Northern Forest Cooperative Ecosystem Studies Unit Task Agreement

FUNDING AGENCY: National Park Service

Purchase Request No: R4506050609

(parkcode-fiscal year-sequential #)

Task Agreement No: J4525037069/0002

Cooperative Agreement, H6000C02000

Funding Amount: \$83,729

Funding Authorization No: 2111-6210-NII

Project Title: Phase III: Development of terrestrial and related monitoring protocols for high priority NETN vital signs

Partner Investigator(s):
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NPS Project Manager(s):
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Inventory and Monitoring Network Coordinator
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Effective Project Dates: modified 1 July 2003 - 1 June 2006

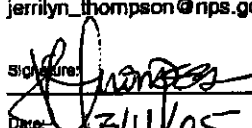
PROJECT ABSTRACT: The purpose of this proposal is to extend and amend the original scope of work for the National Park Service's Vital Signs Monitoring Program for the Northeast Temperate Network (NETN) specifically as it relates to completing Phase 3. The objective of this project is to draft a set of terrestrial monitoring protocols for the 10 parks of the NETN that include Standard Operating Procedures and follow National Park Service Inventory and Monitoring Protocol Development Guidelines for a sub-set of the high priority vital signs, and to oversee the development of all NETN monitoring protocols.

Key Words: Ecological Integrity, Indicators, Monitoring, Vital Signs, Phase 3, Protocols**NPS Signatures**

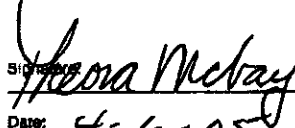
Research Coordinator:
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Tonya Bradley, 402-221-3561;
tonya_bradley@nps.gov

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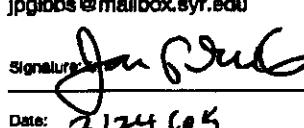
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Date: 4-6-05

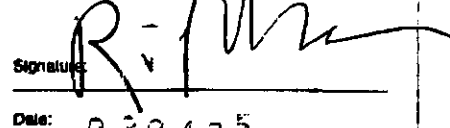
Partner Signatures

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1 Forestry Drive
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Signature: 

Date: 8/24/05

Project Type: Research ☐ Technical Assistance ☒ Education ☐
Project Discipline(s): Biological ☒ Cultural ☐ Physical ☐ Social ☐ Interdisciplinary ☐

Report(s) Received:
Products on File:

This Task Agreement is subject to all the provisions included in the Cooperative Agreement, H6000C02000, dated 8/02/02.

GLNF CESU Tracking #: (Mod 2)

SUNY-2

Great Lakes Northern Forest Cooperative Ecosystem Studies Unit Task Agreement

FUNDING AGENCY: National Park Service

Purchase Request No: R 4506040621

(parkcode-fiscal year-sequential #)

Task Agreement No: J4506040621

Cooperative Agreement, H6000C02000

Funding Amount: \$62,595

Funding Authorization No:
2110-6210-NII

Project Title: Developing an Ecological Monitoring Program for the Appalachian National Scenic Trail

Partner Investigator(s):

James P. Gibbs, Ph.D., State University of New York College of Environmental Science and Forestry

NPS Project Manager(s): Greg Shriver, National Park Service, Inventory and Monitoring Network Coordinator, Marsh-Billings-Rockefeller NHP 54 Elm Street, Woodstock, VT 05091, 802-457-3368 x37 802-457-3405 (fax) greg_shriver@nps.gov

Effective Project Dates: 15 February 2004 – 1 June 2005

Preaward Authorized Theora McVay

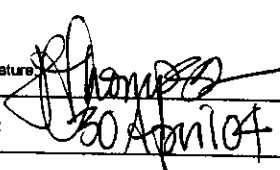
PROJECT ABSTRACT: Planning for the development of long-term monitoring on the AT requires an extensive amount of effort to organize existing information, identify natural resource priorities and biological inventory gaps, and steward ongoing ecological monitoring initiatives. To assist with this effort and to advance the development of an APPA Vital Signs program, the establishment of an APPA I&M point of contact, solely responsible for coordinating and integrating these efforts into a synthetic long-term monitoring plan, would be extremely valuable. To that end, this project will establish a 1 year position (with the potential for renewal) that would coordinate all I&M program activities including biological and other inventories, oversee data mining efforts, and developing a framework for ecological monitoring on the AT and integrate these efforts with other, ongoing and developing programs.

Key Words: Appalachian Trail, Ecological, Inventory and Monitoring, Vital Signs

NPS Signatures

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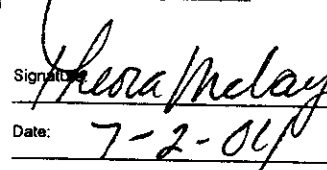
Signature: 

Date: 30 April 04

Assistance Officer:

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Contact: Tonya Bradley, 402-
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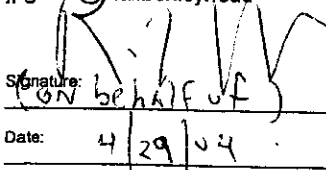
Signature: 

Date: 7-2-04

Partner Signatures

Principal Investigator:

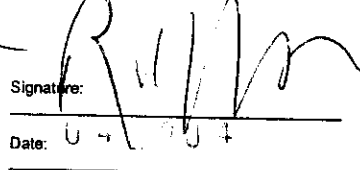
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315-470-6934 (fax)
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Signature: 

Date: 4/29/04

Grant Administrator:

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Signature: 

Date: 6-1-04

Project Type:

Research ☐

Technical Assistance ☒

Education ☐

Project Discipline(s):

Biological ☒

Cultural ☐

Physical ☐

Social ☐

Interdisciplinary ☐

Report(s) Received:

Products on File:

This Task Agreement is subject to all the provisions included in the Cooperative Agreement, H6000C02000, dated 7/25/02.

GLNF CESU Tracking #:

SUNY-3

Great Lakes Northern Forest Cooperative Ecosystem Studies Unit Task Agreement

FUNDING AGENCY: National Park Service

Purchase Request No: R4506040661

(parkcode-fiscal year-sequential #)

Task Agreement No:
J4506040621/0001

Cooperative Agreement, H6000C02000

Funding Amount: \$16,333.40

Funding Authorization No: 2108-6210-NII

Project Title: Developing an Ecological Monitoring Program for the Appalachian National Scenic Trail

Partner Investigator(s):

James P. Gibbs, PhD. State University of New York College of Environmental Science

NPS Project Manager(s): Greg Shriver

National Park Service, Inventory and Monitoring Network Coordinator, Marsh-Billings-Rockefeller NHP, 54 Elm Street, Woodstock, VT 05091
802-457-3368 x37, 802-457-3405 (fax) greg_shriver@nps.gov

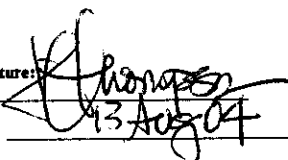
Effective Project Dates: 15 February 2004 – 1 June 2005

PROJECT ABSTRACT: This modification adds funds and a new task to the project. These new funds will be used to extend the work to include populating the NPSpecies database for the Appalachian Trail with the vertebrate and vascular plant information gleaned from the data mining effort of this project.

Key Words: ecological monitoring, inventory, data mining, Appalachian trail, NPSpecies

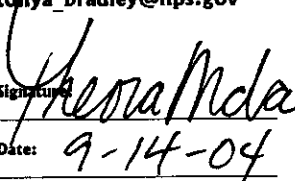
NPS Signatures

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Signature: 
Date: 9-13-04

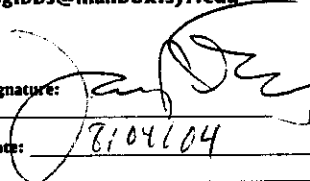
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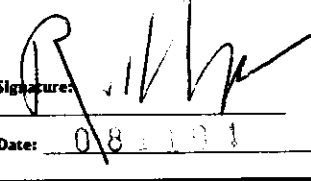
Signature: 
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Partner Signatures

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Signature: 
Date: 8-10-04

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Signature: 
Date: 08-11-04

Project Type: Research ☐ Technical Assistance ☒ Education ☐
Project Discipline(s): Biological ☒ Cultural ☐ Physical ☐ Social ☐ Interdisciplinary ☐

Report(s) Received:
Products on File:

This Task Agreement is subject to all the provisions included in the Cooperative Agreement, H6000C02000, dated 8/02/02.

GLNF CESU Tracking #: (mod 1) SUNY-3

Great Lakes Northern Forest Cooperative Ecosystem Studies Unit Task Agreement			
FUNDING AGENCY: National Park Service			
Purchase Request No: R4506040624 (parkcode-fiscal year-sequential #)	Task Agreement No: J4506040624 Cooperative Agreement: H6000C02000	Funding Amount: \$25,000.00 Funding Authorization No: 4525-2320-NYZ	
Project Title: Workshop to Develop Long-Term Monitoring Protocols for Forest Ecosystems at Acadia National Park			
Partner Investigator(s): James P. Gibbs, Ph.D. State University of New York College of Environmental Science and Forestry		NPS Project Manager(s): Greg Shriver, PH.D. National Park Service, Inventory and Monitoring Network Coordinator, Marsh-Billings-Rockefeller NHP, 54 Elm Street, Woodstock, Vermont 05091 802-457-3368 x37, 802-457-3405 (fax), greg_shriver@nps.gov	
Effective Project Dates: 30 April 2004 – 1 June 2005 Preaward Authorized Theora McVay			
PROJECT ABSTRACT: This project will c reasonably compatible with similar syst with other types of monitoring in the par will be to produce a monitoring protocol effective forest ecosystem monitoring pl completed in preparation for the worksh priorities; Model of major forest ecosyst integrity; Convene a 2- to 3-day workshc on models, threats, and park priorities; F people who might be responsible for imp		park forests in a way that is aid to integrating forest monitoring research projects. The ultimate goal ost-effective. To develop an re following tasks; the first two are ing threats, and park resource is) for assessing park ecological of the monitoring system, based xtensive peer review, including key t it to Acadia National Park.	
Key Words: Ecological Integrity, Indic		CA 4525037069	
NPS Signatures:		natures	
Research Coordinator: Jerrilyn L. Thompson GLNF CESU University of Minnesota 115 Green Hall, 1530 Cleveland Av N. St. Paul, MN 55108 Tel: (612) 624-3699 Fax: (612) 625-5212 thompson@umn.edu jerrilyn_thompson@nps.gov	Assistance Theora Mc Midwest R 1709 Jack Omaha, N Tel: (402) 2 Theora Mc	ant Administrator: bert Mason ants and Contracts Specialist search Foundation of State iversity of New York Box 9 iany, NY 12201-0009 J-434-7109 518-434-8343 (fax) robert.mason@rfsuny.org	
Date: 30 April 04	Date: 7-2-04	Date: 4/29/04	
Project Type: Research _____ Technical Assistance ☒ Education _____		Project Discipline(s): Biological ☒ Cultural _____ Physical _____ Social _____ Interdisciplinary _____	
Report(s) Received: _____ Products on File: _____			
This Task Agreement is subject to all the provisions included in the Cooperative Agreement, H6000C02000, dated 7/25/02.		GLNF CESU Tracking #: SUNY-4	

Great Lakes Northern Forest Cooperative Ecosystem Studies Unit Task Agreement

FUNDING AGENCY: National Park Service

 Purchase Request No: R4506040636
(parkcode-fiscal year-sequential #)

Task Agreement No: J45250370690001

Cooperative Agreement, H6000C02000

Funding Amount: \$104,427

Funding Authorization No:
2111-6210-NII

Project Title: Selecting Indicators of Ecological Integrity: Phase 2 in Vital Sign Monitoring Plan Development for the Northeast Temperate Network

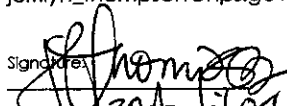
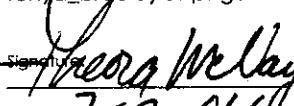
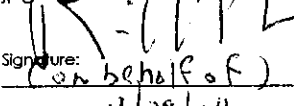
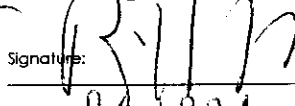
 Partner Investigator(s):
 James P. Gibbs, Ph.D. State University of New York College of
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 NPS Project Manager(s):
 Greg Shriver, PH.D., National Park Service,
 Inventory and Monitoring Network Coordinator, Marsh-Billings-
 Rockefeller NHP, 54 Elm Street, Woodstock, Vermont 05091
 802-457-3368 x37, 802-457-3405 (fax), greg_shriver@nps.gov

Effective Project Dates: 1 July 03 – 1 June 2005

PROJECT ABSTRACT: The purpose of this proposal is to extend and amend the original scope of work for the National Park Service's Vital Signs Monitoring Program for the Northeast Temperate Network (NETN) specifically as it relates to completing Phase 2. Our goal is to develop a monitoring program that measures the ecological condition or integrity of park resources in the Northeast Temperate Network Vital Signs Monitoring Program of the National Park Service. We propose to develop indicators (vital signs) of both ecological condition and of ecological stressors across the full spectrum of biodiversity, from landscapes to species. We also propose to apply measures of these indicators and measures in tiers, with a subset of attributes and measures used to assign an initial ecological integrity rank - the Tier 1 indicators and/or measures (Tier 1 indicators may be more amenable to use during inventory stages), followed by a more extended set of measures that will measure ecological condition and stressors of those attributes - the Tier 2 indicators and/or measures.

Key Words: Ecological Integrity, Indicators, Monitoring, Vital Signs

NPS Signatures		Partner Signatures	
Research Coordinator: Jemilyn L Thompson GLNF CESU University of Minnesota 115 Green Hall, 1530 Cleveland Av N. St. Paul, MN 55108 Tel: (612) 624-3699 Fax: (612) 625-5212 thompson@umn.edu jemilyn_thompson@nps.gov	Assistance Officer: Theora McVay Midwest Region 1709 Jackson Omaha, NE 68102-2571 Tel: (402) 221-3487 Theora_McVay@nps.gov Tonya Bradley, 402-221-3561 tonya_bradley@nps.gov	Principal Investigator: James P. Gibbs Associate Professor State university of New York College of Environmental Science and Forestry 1 Forestry drive Syracuse, NY 13210 315-470-6764 315-470-6934 (fax) jpgibbs@mailbox.syr.edu	Grant Administrator: Robert Mason Grants and Contracts Specialist Research Foundation of State University of New York PO Box 9 Albany, NY 12201-0009 518-434-7109 518-434-8343 (fax) robert.mason@rfsunys.org
Signature:  Date: 30 April 04	Signature:  Date: 7-2-04	Signature:  Date: 4/29/04	Signature:  Date: 042904

 Project Type: Research ☐ Technical Assistance ☒ Education ☐
 Project Discipline(s): Biological ☒ Cultural ☐ Physical ☐ Social ☐ Interdisciplinary ☐

Report(s) Received:

Products on File:

 This Task Agreement is subject to all the provisions included in the
 Cooperative Agreement, H6000C02000, dated 7/25/02.

GLNF CESU Tracking #: SUNY-2

Attach scope of work, budget & other supporting material.

01 08 04

NPS - Project Summary

Great Lakes Northern Forest Cooperative Ecosystem Studies Unit
Cooperative Agreement Modification

FUNDING AGENCY: National Park Service

PURCHASE REQUEST NO.: R4525037069
(to be administered by CESU coordinator)COOPERATIVE AGREEMENT NO.:
H6000C02000

FUNDING AMOUNT: \$106,315.00

103,515.00

MODIFICATION NO.: R4525037069

INVESTIGATORS: D. Faber-Langendoen, J. P. Gibbs, and B. Underwood

Funding Authorization No:
2111 - NII-411C

PROJECT TITLE: Developing Indicators of Ecological Integrity: A monitoring plan for the National Park Service Northeast Temperate Network

EFFECTIVE DATES: 1 July 2003 - 31 December 2004

PROJECT ABSTRACT:

The purpose of this proposal is to assist the National Park Service Inventory and Monitoring Program in developing a Vital Signs monitoring program for terrestrial ecological communities in the Northeast Temperate Network. The primary objectives of this project are to: 1) develop conceptual models of terrestrial ecosystems, 2) summarize existing Park based ecological monitoring programs, 3) develop a prioritization system for monitoring needs of ecological communities within parks, 4) define ecological monitoring objectives, 5) rank conservation status of ecological community and system elements in the parks at state and global scales 6) rank the ecological integrity of system and community occurrences in the park, using key ecological attributes and their tier 1 indicators (focusing on ecological condition) and 7) develop tier 2 indicator selection criteria, identify potential indicators of both ecological condition and stressors that can more carefully assist management and monitoring of ecological integrity over time, and summarize various sampling design options for these indicators.

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Signature
Date: 5/16/03

Signature
Date: 9-16-03

Signature
Date: 7/19/03

Signature
Date: 7-11-03

List of Key Words:
ecological, indicators, integrity, Northeast Temperate Network, Vital Signs Monitoring

Agency Manager @ Specific Park: Greg Shriver, Northeast Temperate Network Coordinator, Marsh-Billings-Rockefeller NHP, 54 Elm Street, Woodstock, VT 05091. 802-457-3368 x37 greg_shriver@nps.gov

Annual Report Received: _____

Final Report Received: _____

Publications on File: _____

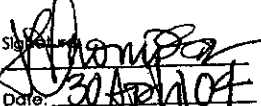
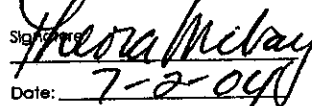
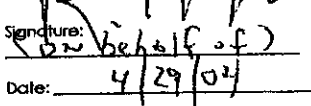
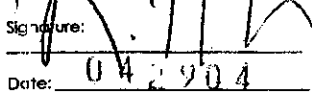
(This Modification is subject to all the provisions included in the Cooperative Agreement, dated 7/25/02).

Attach scope of work, budget, and other supporting material as necessary.

SUNY-2

Modification 1

SUNY ESF Proposal for Northeast Temperate Inventory and Monitoring Network

Great Lakes Northern Forest Cooperative Ecosystem Studies Unit Task Agreement			
FUNDING AGENCY: National Park Service			
Purchase Request No: R4506040636 (parkcode-fiscal year-sequential #)	Task Agreement No: J4525037069/0001 Cooperative Agreement, H6000C02000	Funding Amount: \$104,427 Funding Authorization No: 2111-6210-NII	
Project Title: Selecting Indicators of Ecological Integrity: Phase 2 in Vital Sign Monitoring Plan Development for the Northeast Temperate Network			
Partner Investigator(s): James P. Gibbs, Ph.D. State University of New York College of Environmental Science and Forestry		NPS Project Manager(s): Greg Shriver, Ph.D., National Park Service, Inventory and Monitoring Network Coordinator, Marsh-Billings-Rockefeller NHP, 54 Elm Street, Woodstock, Vermont 05091 802-457-3368 x37, 802-457-3405 (fax), greg_shriver@nps.gov	
Effective Project Dates: 1 July 03 – 1 June 2005			
PROJECT ABSTRACT: The purpose of this proposal is to extend and amend the original scope of work for the National Park Service's Vital Signs Monitoring Program for the Northeast Temperate Network (NETN) specifically as it relates to completing Phase 2. Our goal is to develop a monitoring program that measures the ecological condition or integrity of park resources in the Northeast Temperate Network Vital Signs Monitoring Program of the National Park Service. We propose to develop indicators (vital signs) of both ecological condition and of ecological stressors across the full spectrum of biodiversity, from landscapes to species. We also propose to apply measures of these indicators and measures in tiers, with a subset of attributes and measures used to assign an initial ecological integrity rank - the Tier 1 indicators and/or measures (Tier 1 indicators may be more amenable to use during inventory stages), followed by a more extended set of measures that will measure ecological condition and stressors of those attributes - the Tier 2 indicators and/or measures.			
Key Words: Ecological Integrity, Indicators, Monitoring, Vital Signs			
NPS Signatures		Partner Signatures	
Research Coordinator: Jerrilyn L Thompson GLNF CESU University of Minnesota 115 Green Hall, 1530 Cleveland Av N. St. Paul, MN 55108 Tel: (612) 624-3699 Fax: (612) 625-5212 thompson@umn.edu jerrilyn_thompson@nps.gov Signature:  Date: 3/31/04	Assistance Officer: Theora McVay Midwest Region 1709 Jackson Omaha, NE 68102-2571 Tel: (402) 221-3487 Theora_McVay@nps.gov Tonya Bradley, 402-221-3561; tonya_bradley@nps.gov Signature:  Date: 7-2-04	Principal Investigator: James P. Gibbs Associate Professor State University of New York College of Environmental Science and Forestry 1 Forestry drive Syracuse, NY 13210 315-470-6764 315-470-6934 (fax) jpgibbs@mailbox.syr.edu Signature:  Date: 4/29/04	Grant Administrator: Robert Mason Grants and Contracts Specialist Research Foundation of State University of New York PO Box 9 Albany, NY 12201-0009 518-434-7109 518-434-8343 (fax) robert.mason@rfsunys.org Signature:  Date: 04/29/04
Project Type: Research _____ Technical Assistance ☒ Education _____ Project Discipline(s): Biological ☒ Cultural _____ Physical _____ Social _____ Interdisciplinary _____ Report(s) Received: Products on File:			
This Task Agreement is subject to all the provisions included in the Cooperative Agreement, H6000C02000, dated 7/25/02.			GLNF CESU Tracking #: SUNY-2

Attach scope of work, budget & other supporting material.

Modification 2

Great Lakes Northern Forest Cooperative Ecosystem Studies Unit Task Agreement

FUNDING AGENCY: National Park Service

Purchase Request No: R4506050609

(parkcode-fiscal year-sequential #)

Task Agreement No: J4525037069/0002

Cooperative Agreement, H6000C02000

Funding Amount: \$83,729

Funding Authorization No: 2111-6210-NII

Project Title: Phase III: Development of terrestrial and related monitoring protocols for high priority NETN vital signs

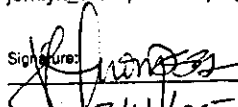
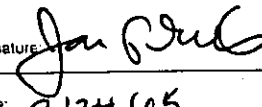
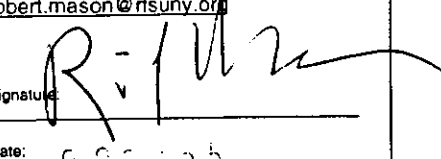
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Effective Project Dates: modified 1 July 2003 -- 1 June 2006

PROJECT ABSTRACT: The purpose of this proposal is to extend and amend the original scope of work for the National Park Service's Vital Signs Monitoring Program for the Northeast Temperate Network (NETN) specifically as it relates to completing Phase 3. The objective of this project is to draft a set of terrestrial monitoring protocols for the 10 parks of the NETN that include Standard Operating Procedures and follow National Park Service Inventory and Monitoring Protocol Development Guidelines for a sub-set of the high priority vital signs, and to oversee the development of all NETN monitoring protocols.

Key Words: Ecological Integrity, Indicators, Monitoring, Vital Signs, Phase 3, Protocols

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Signature:  Date: 3/11/05	Signature: _____ Date: _____	Signature:  Date: 2/24/05	Signature:  Date: 6/25/05

Project Type: Research _____ Technical Assistance ☒ Education _____
Project Discipline(s): Biological ☒ Cultural _____ Physical _____ Social _____ Interdisciplinary _____

Report(s) Received:
Products on File:

This Task Agreement is subject to all the provisions included in the Cooperative Agreement, H6000C02000, dated 8/02/02.

GLNF CESU Tracking #: (Mod 2)

SUNY-2

Great Lakes Northern Forest Cooperative Ecosystem Studies Unit Cooperative Agreement Modification

FUNDING AGENCY: National Park Service

PURCHASE REQUEST NO.: R_
(to be administered by CESU coordinator)

COOPERATIVE AGREEMENT NO.: CA6000C02000

FUNDING AMOUNT: \$106,315.00

MODIFICATION NO.: J_ 4525037069

→ \$103,515 B/M 1/30/06

INVESTIGATORS: D. Faber-Langendoen, J. P. Gibbs, and B. Underwood

Funding Authorization No:

PROJECT TITLE: **Developing Indicators of Ecological Integrity: A monitoring plan for the National Park Service Northeast Temperate Network**

EFFECTIVE DATES: 1 July 2003 - 31 December 2004

PROJECT ABSTRACT:

The purpose of this proposal is to assist the National Park Service Inventory and Monitoring Program in developing a Vital Signs monitoring program for terrestrial ecological communities in the Northeast Temperate Network. The primary objectives of this project are to; 1) develop conceptual models of terrestrial ecosystems, 2) summarize existing Park based ecological monitoring programs, 3) develop a prioritization system for monitoring needs of ecological communities within parks, 4) define ecological monitoring objectives, 5) rank conservation status of ecological community and system elements in the parks at state and global scales 6) rank the ecological integrity of system and community occurrences in the park, using key ecological attributes and their tier 1 indicators (focusing on ecological condition) and 7) develop tier 2 indicator selection criteria, identify potential indicators of both ecological condition and stressors that can more carefully assist management and monitoring of ecological integrity over time, and summarize various sampling design options for these indicators.

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List of Key Words:

ecological, indicators, integrity, Northeast Temperate Network, Vital Signs Monitoring

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07/10/03

NPS – Project Summary

2

Annual Report Received: _____ Final Report
Received: _____

Publications on
File: _____

(This Modification is subject to all the provisions included in the Cooperative Agreement, dated 7/25/02).

Attach scope of work, budget, and other supporting material as necessary..