

**SOUTHERN APPALACHIAN MOUNTAINS
COOPERATIVE ECOSYSTEM STUDIES UNIT**

**AMENDMENT ONE TO
COOPERATIVE and JOINT VENTURE AGREEMENT**

between

**U.S. DEPARTMENT OF THE INTERIOR
Bureau of Land Management
U.S. Fish and Wildlife Service
U.S. Geological Survey
National Park Service**

**U.S. DEPARTMENT OF AGRICULTURE
U.S. Forest Service (Southern Research Station)
Natural Resources Conservation Service**

**U.S. DEPARTMENT OF DEFENSE
Office of the Deputy Under Secretary of Defense
(Installations and Environment)
U.S. Army Corps of Engineers – Civil Works**

and

**UNIVERSITY OF TENNESSEE (HOST)
Appalachian State University
Florida A&M University
Lincoln Memorial University
Middle Tennessee State University
Tennessee Technological University
University of Kentucky
Western Carolina University
Western Kentucky University
UT - Institute for a Secure and Sustainable Environment
Southern Appalachian Man and the Biosphere
Virginia Polytechnic Institute and State University
Discover Life in America
University of North Carolina Asheville
East Tennessee State University**

**Tennessee Aquarium Conservation Institute
Austin Peay State University
Jacksonville State University
Marshall University
The University of the South
Tennessee State University**

**Adding:
Bureau of Indian Affairs
Ohio University
University of Tennessee at Martin**

With the exception of the changes below, all terms and conditions of the Southern Appalachian Mountains CESU Agreement apply to this Amendment, and this Amendment is hereby made part of the Agreement.

ARTICLE I. BACKGROUND AND OBJECTIVES

- A.1. The Bureau of Indian Affairs is hereby included in the Southern Appalachian Mountains CESU as a Federal Agency Partner.
- L.1. Ohio University and University of Tennessee at Martin are hereby included in the Southern Appalachian Mountains CESU as Partner Institutions.
- M. Bureau of Indian Affairs (BIA) is the oldest bureau of the United States Department of the Interior. Established in 1824, BIA currently provides services to approximately 1.9 million American Indians and Alaska Natives. There are 566 federally recognized American Indian tribes and Alaska Natives in the United States. The mission of the Bureau of Indian Affairs is to: "... enhance the quality of life, to promote economic opportunity, and to carry out the responsibility to protect and improve the trust assets of American Indians, Indian tribes, and Alaska Natives." BIA has responsibility for the administration and management of 55 million surface acres and 57 million acres of subsurface minerals estates held in trust by the United States for American Indian, Indian tribes, and Alaska Natives. BIA serves a special role, both serving tribes through trust management and by providing technical support and advice across a broad range of topics. The BIA is also the lead agency providing for federal management of the trust corpus held on behalf of tribal government and individual beneficial owners and as such is tasked with coordinating science, technical education, and management needs for those trust resources. The tribes, through the Indian Self-Determination and Education Assistance Act of 1975 (Pub. L. 93-638) are authorized to contract BIA management functions and as such mission needs, research results, and education efforts serve and enable tribal and BIA staff. The Act also authorized the federal government to follow specific contracting

regulations for Recognized Federal Indian Tribes, and with tribal approval, tribally chartered Indian colleges and universities.

BIA participation in the CESU Network will include support, coordination, and cooperation focused on science and education for climate and trust resource management, as well as other areas within its range of mission-related services and activities. BIA is authorized to enter into cooperative agreements under the general authority for climate change via the Snyder Act of 1921, as amended, 25 U.S.C. § 13; for FY14 (2-year funding) via Pub. L. 113-76, and FY15 (2-year funding) via Pub. L. 113-164, as amended (and subsequent annual budget appropriations as may be authorized during the term of the agreement); and for any potential Forestry and Wildland Fire Management program efforts, via the National Indian Forest Resources Management Act of 1990, Pub. L. 101- 630. BIA has the authority to enter into this agreement pursuant to 25 U.S.C. § 2; the Education and Training Program, 23 U.S.C. § 6004; and Snyder Act of 1921, as amended, 25 U.S.C. § 13.

ARTICLE III. TERM OF AGREEMENT

- A.1. The effective date of the Southern Appalachian Mountains CESU Cooperative and Joint Venture Agreement is 19 June 2014.
- A.2. The effective date of this Amendment to the Southern Appalachian Mountains CESU Cooperative and Joint Venture Agreement shall be determined from the date of the last signature to this Amendment.

ARTICLE IV. KEY OFFICIALS

- A.9. The technical representative for the Bureau of Indian Affairs is:

Rachael Novak
Climate Science Coordinator
Bureau of Indian Affairs
1849 C St. NW, MIB 4633
Washington DC, 20240
Phone: (202) 219-1652
rachael.novak@bia.gov

- C.21. The technical representative for Ohio University is:

Robert L. Wiley
Senior Ecologist, Project Manager
Building 22 The Ridges Room 207
1 Ohio University
Athens, OH 45701-2979

Phone: (740) 597-1464
wileyr1@ohio.edu

C.22. The technical representative for the University of Tennessee at Martin is:

Paula M. Gale, PhD, LPSS
Professor of Soil Science and Assistant Director of Honors Programs
UTAA Alumni Distinguished Service Professor
Department of Agriculture, Geosciences, and Natural Resources
218B Brehm Hall
University of Tennessee at Martin
Martin, TN 38238
Phone: (731) 881-7326
pgale@utm.edu

ARTICLE V. AWARD

- A.1. Upon signature of all parties to this amendment, the Bureau of Indian Affairs shall commit funds to the Southern Appalachian Mountains CESU Host University in furtherance of the Agreement, to be authorized and executed by a modification to the Agreement in accordance with CESU Network Council annual host institution support guidelines.

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES

The following authorizing signatures are attached to the Amendment:

U.S. DEPARTMENT OF THE INTERIOR

- A. Bureau of Land Management
- B. U.S. Fish and Wildlife Service
- C. U.S. Geological Survey
- D. National Park Service
- E. **Bureau of Indian Affairs**

U.S. DEPARTMENT OF AGRICULTURE

- F. USDA Forest Service (Southern Research Station)
- G. Natural Resources Conservation Service

U.S. DEPARTMENT OF DEFENSE

- H. Office of the Deputy Under Secretary of Defense (Installations and Environment)
- I. US Army Corps of Engineers – Civil Works

J. UNIVERSITY OF TENNESSEE (HOST)

- K. Appalachian State University
- L. Florida A&M University
- M. Lincoln Memorial University
- N. Middle Tennessee State University
- O. Tennessee Technological University
- P. University of Kentucky
- Q. Western Carolina University
- R. Western Kentucky University
- S. University of Tennessee Institute for a Secure and Sustainable Environment
- T. Southern Appalachian Man and the Biosphere
- U. Virginia Polytechnic Institute and State University
- V. Discover Life in America
- W. University of North Carolina Asheville
- X. East Tennessee State University
- Y. Tennessee Aquarium Conservation Institute
- Z. Austin Peay State University
- AA. Jacksonville State University
- BB. Marshall University
- CC. The University of the South
- DD. Tennessee State University
- EE. **Ohio University**
- FF **University of Tennessee at Martin**

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

A. Bureau of Land Management



Ann DeBlasi
Acting State Director

4-8-16

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

B. U.S. Fish and Wildlife Service

STEVEN SPONAUGLE Digitally signed by STEVEN SPONAUGLE
Date: 2016.02.25 12:37:28 -05'00'

Name: Steve Sponaugle
Chief, Division of Contracting and Grant Services U.S. Fish and
Wildlife Service, Southeast Region

02/25/2016
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

C. U.S. Geological Survey



Sherril Ly Bredesen
Contracting Officer

03/01/16
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

D. National Park Service

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Stanley Austin
Regional Director
Southeast Region

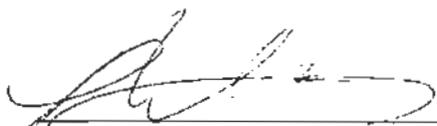
Date

Rose M. McClelland
Contracting Officer

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

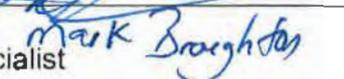
E. Bureau of Indian Affairs



Michael S. Black
Director, Bureau of Indian Affairs
U.S. Department of the Interior

2/27/16

Date

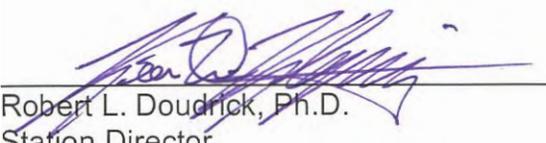
Bernie Toyekyah
Grants Management Specialist

2/29/16

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

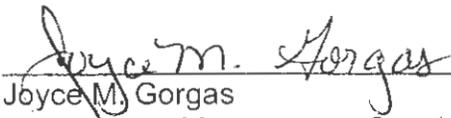
F. U.S. Forest Service



FOR Robert L. Doudrick, Ph.D.
Station Director
Southern Research Station

2/26/16
Date

The authority and format of this instrument has been reviewed and approved for signature.



Joyce M. Gorgas
Lead Grants Management Specialist
Southern Research Station

2/25/2016
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

G. Natural Resources Conservation Service

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Thomas W. Christensen
Associate Chief of Operations

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

H. Department of Defense – Office of the Deputy Under Secretary of Defense
(Installations and Environment)

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Traci Robicheaux
Grants Officer
Representing ODUSD (I&E)

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

I. U.S. Army Corps of Engineers – Civil Works

**MCGUFFIE.JERI.H.12
30779046**



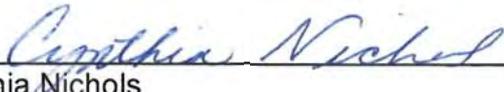
Digitally signed by MCGUFFIE.JERI.H.1230779046
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,
ou=USA, cn=MCGUFFIE.JERI.H.1230779046
Date: 2016.02.25 15:26:33 -06'00'

Jeri McGuffie
Grants Officer

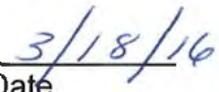
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

J. The University of Tennessee



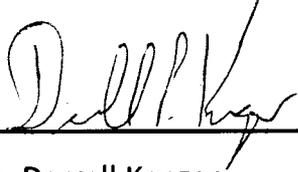
Cynthia Nichols
Chief Business Officer, AgResearch



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

K. Appalachian State University



04/01/2016

Dr. Darrell Kruger
Provost and Executive Vice Chancellor

Date

Office of General Counsel
Reviewed/approved as to form.

Initials: *BLK*

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

L. Florida A&M University

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Kinfe K. Redda, Ph.D.
Vice President for Research

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

M. Lincoln Memorial University

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Ronald S. Caldwell
Professor of Biology
Director, CMRC

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

N. Middle Tennessee State University

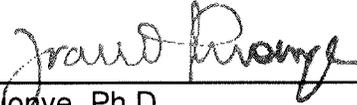


Alan R. Thomas
Interim Vice President, Business and Finance

3/9/2016
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

O. Tennessee Technological University



Francis Otuonye, Ph.D.
Associate Vice President for Research/Graduate Studies

3-1-15
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

P. University of Kentucky

#P Kim C. Carter
Kim C. Carter
Associate Director
University of Kentucky Research Foundation

3/23/16
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Q. Western Carolina University



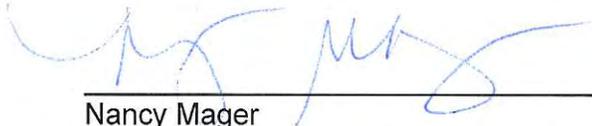
Brian Kloeppe, PhD
Chief Research Officer

22 March 2016
Date

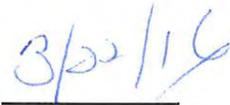
Approved as to form.
SRB
Attorney

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

R. Western Kentucky University



Nancy Mager
Director, WKU Office of Sponsored Programs



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

S. Institute for a Secure and Sustainable Environment

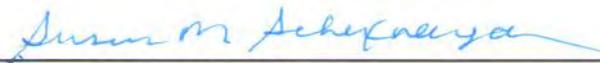
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Gregory D. Reed
Vice Chancellor for Research and Engagement

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

T. Southern Appalachian Man and the Biosphere



Susan M. Schexnayder
President

02/25/2016
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

U. Virginia Polytechnic Institute and State University



John C. Rudd
Assistant Vice President for Sponsored Programs

2/29/2016

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

V. Discover Life in America

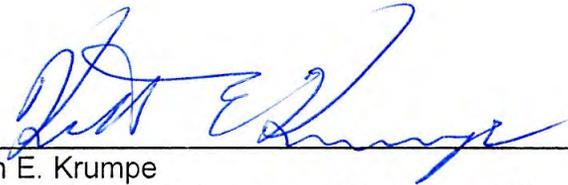


Todd P. Witcher
Executive Director

3/21/16
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

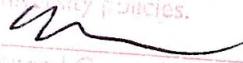
W. University of North Carolina Asheville



Keith E. Krump
Dean of Natural Sciences and Professor of Chemistry

3/1/16
Date

This document has been reviewed by
the University of North Carolina Asheville General Council
and (as amended) has been found to comply
with state and federal law and with pertinent
University policies.



Asst. General Council
Date 2/21/16

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

X. East Tennessee State University

William R. Duncan
Dr. William R. Duncan
Vice Provost for Research

2/26/16
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Y. Tennessee Aquarium Conservation Institute

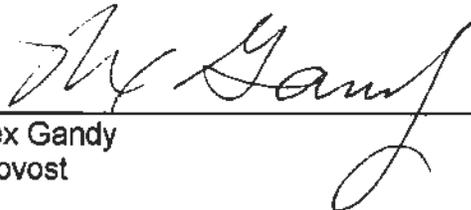
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Gordon A. Stalans
Division of Finance

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Z. Austin Peay State University

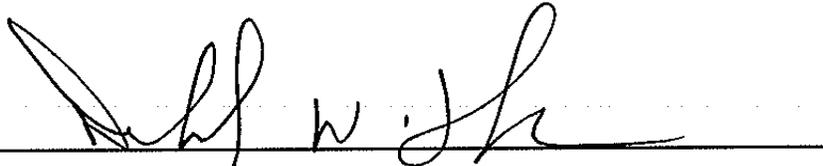


Rex Gandy
Provost

2/25/14
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

AA. Jacksonville State University

A handwritten signature in black ink, appearing to read 'Donald W. Thacker', written over a horizontal line.

Donald W. Thacker
Acting Vice President, Administration and Business Affairs

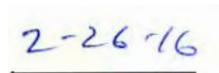
3/3/16
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

BB. Marshall University



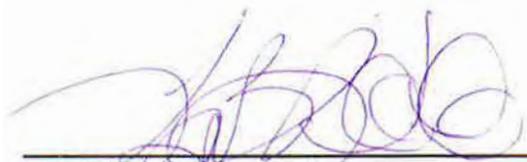
John M. Maher
Executive Director, Marshall University Research Group



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

CC. The University of the South



Leigh B. Lentile
Sponsored Research Officer

2/25/16
Date



Nancy J. Berner
Associate Provost
Vice Provost for Planning and Administration

2-29-16
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

DD, Tennessee State University

A handwritten signature in cursive script that reads "Lesia Crumpton-Young".

Dr. Lesia Crumpton-Young
Chief Research Officer
Tennessee State University

4/6/16
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

EE. Ohio University



P. Maureen Valentine
AVP for Research and Sponsored Programs

01/29/16
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

FF. University of Tennessee at Martin

<u>Petra McPhearson</u>	<u>Feb 9, 2016</u>
[Print name]: Petra McPhearson	Date
[Print title]: Interim Vice Chancellor for Finance and Administration	