

**PIEDMONT – SOUTH ATLANTIC COAST
COOPERATIVE ECOSYSTEM STUDIES UNIT**

**AMENDMENT FOUR 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
Bureau of Ocean Energy Management**

**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),
Naval Hospital – Beaufort, SC
U.S. Army Corps of Engineers – Civil Works**

**U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration**

and

**UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC. (HOST)
Auburn University
Clemson University
Florida A&M University
North Carolina State University
University of Central Florida
University of Florida
Audubon of Florida
Audubon of North Carolina
Audubon of South Carolina
East Carolina University
University of South Carolina
North Carolina Agricultural and Technical State University
Towson University
University of South Florida
Southern Forest Research Partnership**

**Christopher Newport University
The Citadel
University of North Carolina Wilmington
University of West Georgia
Duke University
University of North Carolina-Chapel Hill
National Wildlife Federation
Project Orianne, Ltd.**

**Adding:
College of Charleston**

With the exception of the changes below, all terms and conditions of the Piedmont – South Atlantic Coast CESU Cooperative and Joint Venture Agreement apply to this Amendment, and this Amendment is hereby made part of the Agreement.

ARTICLE I. BACKGROUND AND OBJECTIVES

L.3. The College of Charleston is hereby included in the Piedmont – South Atlantic Coast CESU as a Partner Institution.

ARTICLE III. TERM OF AGREEMENT

A.1. The effective date of the Piedmont – South Atlantic Coast CESU Cooperative and Joint Venture Agreement is 01 July 2008.

A.2. The effective date of this amendment to the Piedmont – South Atlantic Coast CESU Cooperative and Joint Venture Agreement shall be determined from the date of the last signature.

ARTICLE IV. KEY OFFICIALS

C.24. The technical representative for College of Charleston is:

Dr. Michael Auerbach
Dean, School of Sciences and Mathematics
College of Charleston
66 George Street
Charleston, SC 29424
Phone: (843) 953-5991
auerbachmj@cofc.edu

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES

The following authorizing signatures are attached to this 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 Ocean Energy Management

U.S. DEPARTMENT OF AGRICULTURE

- F. U.S. 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),
Naval Hospital – Beaufort, SC
- I. U.S. Army Corps of Engineers – Civil Works

U.S. Department of Commerce

- J. National Oceanic and Atmospheric Administration

K. THE UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.

- L. Auburn University
- M. Clemson University
- N. Florida A&M University
- O. North Carolina State University
- P. University of Central Florida
- Q. University of Florida
- R. Audubon of Florida
- S. Audubon of North Carolina
- T. Audubon of South Carolina
- U. East Carolina University
- V. University of South Carolina
- W. North Carolina Agriculture and Technical State University
- X. Towson University
- Y. University of South Florida
- Z. Southern Forest Research Partnership
- AA. Christopher Newport University
- BB. The Citadel
- CC. University of North Carolina Wilmington
- DD. University of West Georgia
- EE. Duke University
- FF. University of North Carolina-Chapel Hill

GG. National Wildlife Federation
HH. Project Orianna, Ltd.
II. College of Charleston

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

A. Bureau of Land Management

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.

Dr. John G. Lyon
Acting State Director, Eastern States

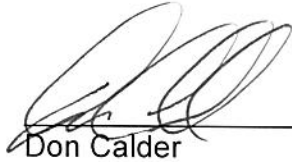
Date

Lisa T. Clayton
Grants Management Officer

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

B. U.S. Fish and Wildlife Service

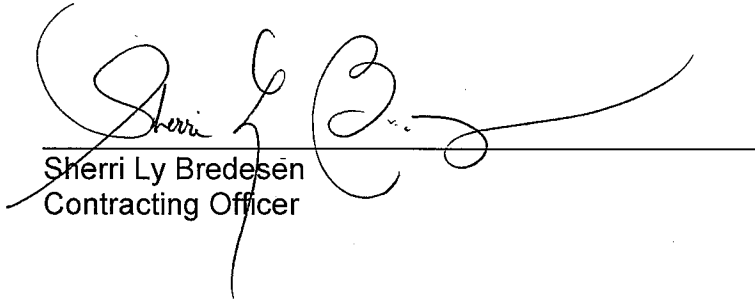


Don Calder
Chief, Division of Contracting and Grant Services
U.S. Fish and Wildlife Service, Southeast Region

12-9-2011
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

C. U.S. Geological Survey

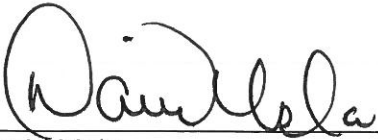


Sherri Ly Bredesen
Contracting Officer

12/08/11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

D. National Park Service

A handwritten signature in black ink, appearing to read "David Vela", written over a horizontal line.

David Vela
Regional Director
Southeast Region

12-7-11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

E. Bureau of Ocean Energy Management

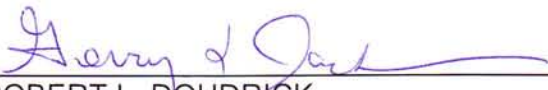


Rodney Cluck
Chief, Division of Environmental Sciences

12/28/11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

F. U.S. Forest Service, Southern Research Station



Cor ROBERT L. DOUDRICK
Station Director

12/6/11
Date

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

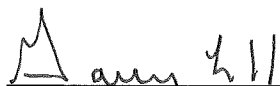


Joyce M. Gorgas
Grants Management Specialist
Southern Research Station

12/6/2011
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGANTURES (cont.)

G. Natural Resources Conservation Service



Garry Lee, Acting
Deputy Chief for Management

12.27.11

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

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



Leslie E. Guy, Grants Officer
Representing ODUSD (I&E)

14 Dec 11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

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



Digitally signed by
SONTAG.DEANNDAS.1230791909
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,
ou=USA, cn=SONTAG.DEANNDAS.1230791909
Date: 2012.01.03 11:05:10 -06'00'

Deannda Sontag
Grants Officer

3 Jan 2012

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

J. National Oceanic and Atmospheric Administration

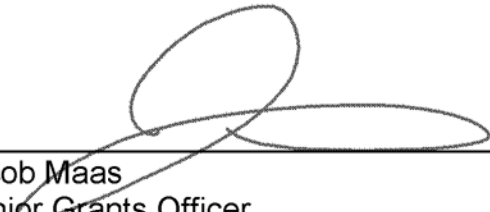
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Gary Reisner
Director, Management and Budget Office
National Marine Fisheries Service
National Oceanic and Atmospheric Administration

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

K. The University of Georgia Research Foundation, Inc. (HOST)



Jacob Maas
Senior Grants Officer

12/7/2011

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

L. Auburn University



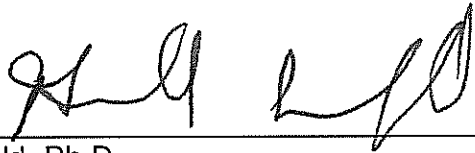
John M. Mason
Associate Provost and
Vice President for Research

1.3.2012

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

M. Clemson University

Handwritten signatures of Gerald Sonnenfeld and Gerald Sonnenfeld.

~~Gerald Sonnenfeld, Ph.D.~~
Vice President for Research

Gerald Sonnenfeld, Ph.D.
Vice President for Research

12/6/11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

N. Florida Agricultural and Mechanical University

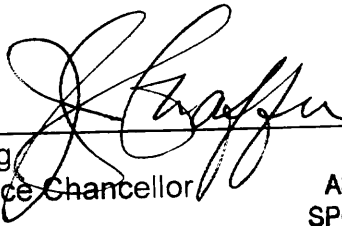
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

K. Ken Redda, Ph.D.
Professor and Acting Vice President for Research

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

O. North Carolina State University



Matt Ronning
Associate Vice Chancellor

**JOHN CHAFFEE
ASSOCIATE DIRECTOR
SPONSORED PROGRAMS**

12-14-11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

P. University of Central Florida



Josephine Combs
Contract Manager



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Q. University of Florida



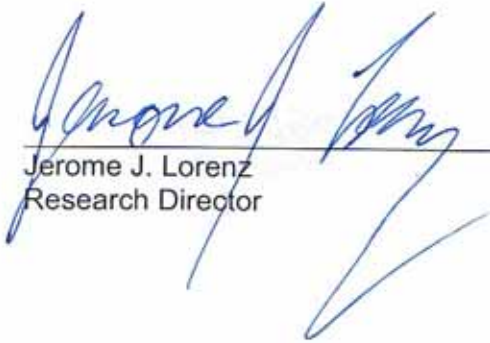
Brian Prindle
Associate Director of Research

12/8/11

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

R. Audubon of Florida



Jerome J. Lorenz
Research Director

06DEC11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

S. Audubon of North Carolina



Jerome J. Lorenz
CESU Representative

06DEC11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

T. Audubon of South Carolina




Jerome J. Lorenz
CESU Representative

06 DEC 11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

U. East Carolina University



Maryellen O'Brien, Director
Office of Sponsored Programs

12/7/11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

V. University of South Carolina

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 Coggins
Director, Office of Sponsored Awards Management

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

W. North Carolina Agricultural and Technical State 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.

William Randle
Dean
School of Agriculture and Environmental Sciences

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

X. Towson University



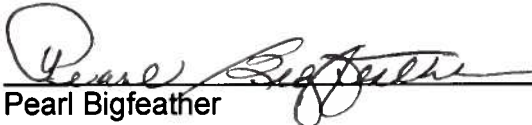
R. A. Seigel
Professor and Chair
Department of Biological Sciences

12-8-11

Date

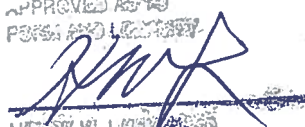
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Y. University of South Florida Board of Trustees, a public body corporate



Pearl Bigfeather
Associate Vice President for Sponsored Research and Finance

12/15/2011
Date

APPROVED AS TO
FORM AND LEGALITY

HENRY W. LAFFOON
ATTORNEY UCF

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Z. Southern Forest Research Partnership


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.

Mike Zupko
Executive Director

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

AA. Christopher Newport University



Mark Padilla
Provost

12-12-11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

BB. The Citadel



~~Charles W. Greetseh~~ Isaac S. Metts, Jr.
Dean, School of Science and Mathematics

7 December 2011

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

CC. University of North Carolina Wilmington



Dr. Robert Roer
Dean of the Graduate School and Research
Chief Research Officer

07 Dec 2011
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

DD. University of West Georgia

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.

Dr. Peter S. Hoff
Provost and Vice President for Academic Affairs

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

EE. Duke University



Keith Hurka-Owen, CRA
Director, Office of Research Support

12/13/11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

FF. University of North Carolina-Chapel Hill

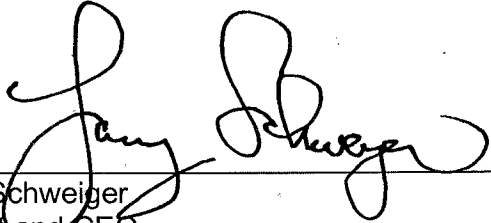
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Barbara Entwisle
Vice Chancellor for Research

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

GG. National Wildlife Federation

A handwritten signature in black ink, appearing to read "Larry Schweiger", written over a horizontal line.

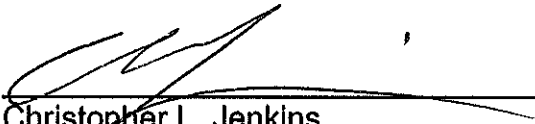
Larry J. Schweiger
President and CEO

12-13-11

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

HH. Project Orianna, Ltd.




Christopher L. Jenkins
CEO & Executive Director

12/6/11
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

II. College of Charleston



George Hynd
Provost and Executive Vice President of Academic Affairs

12/2/11
Date