

**GREAT PLAINS  
COOPERATIVE ECOSYSTEM STUDIES UNIT**

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

between

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

**U.S. DEPARTMENT OF AGRICULTURE  
U.S. Forest Service  
Natural Resources Conservation Service  
Farm Service Agency**

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

and

**UNIVERSITY OF NEBRASKA - LINCOLN (HOST)  
Black Hills State University  
Colorado State University  
Kansas State University  
Langston University  
North Dakota State University  
South Dakota State University  
Texas A&M AgriLife Research (formerly Texas AgriLife Research of the Texas  
A&M University System)  
University of Minnesota  
University of North Dakota  
University of Oklahoma  
University of South Dakota**

**University of Wyoming  
Emporia State University  
New Mexico Highlands University  
South Dakota School of Mines and Technology  
Winona State University  
Oklahoma State University  
University of Nebraska Medical Center College of Public Health  
Texas Tech University  
World Wildlife Fund Northern Great Plains Program**

**Adding:**

**Bureau of Indian Affairs  
National Oceanic and Atmospheric Administration**

With the exception of the changes below, all terms and conditions of the Great Plains 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 (BIA) and National Oceanic and Atmospheric Administration (NOAA) are hereby included in the Great Plains CESU as Federal Agency Partners.
- N. 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.

- O. The mission of the National Oceanic and Atmospheric Administration (hereafter NOAA) is to understand and predict changes in the Earth's environment and conserve and manage coastal and marine resources to meet our Nation's economic, social, and environmental needs. Authorities to participate in and conduct activities through the Cooperative Ecosystem Studies Units Network include 33 U.S.C. § 883(e), which gives NOAA the authority to enter into cooperative agreements with States, Federal Agencies, public or private organizations or individuals for authorized surveys or investigations and other specified purposes. NOAA also has the authority under 15 U.S.C. § 2901 et seq., to enter into contracts, grants, or cooperative agreements for climate-related activities. Finally, the Coastal Zone Management Act at 16 U.S.C. § 1451 et seq., grants NOAA the authority to coordinate with Federal Agencies and provide financial and technical assistance to states and territories to preserve, protect, develop, and where possible, to restore or enhance, the resources of the Nation's coastal zone for this and succeeding generations, among other things. In accordance with the authorities listed above, NOAA is authorized to enter into agreements with States, nonprofit organizations, academic institutions, and other partners to support research, technical assistance, and educational services consistent with the mission of NOAA and the CESU Network.

### **ARTICLE III. TERM OF AGREEMENT**

- A.1. The effective date of the Great Plains CESU Cooperative and Joint Venture Agreement is 6 October 2010.

- A.2. The effective date of this Amendment to the Great Plains CESU Cooperative and Joint Venture Agreement shall be determined from the date of the last signature to this Amendment.

#### **ARTICLE IV. KEY OFFICIALS**

- A.10. The technical representative for the Bureau of Indian Affairs is:

Sean J. Hart  
Climate Change Coordinator  
Bureau of Indian Affairs  
1849 C Street NW, MIB 4635  
Washington DC, 20240  
Phone: (202) 513-0337  
[sean.hart@bia.gov](mailto:sean.hart@bia.gov)

- A.11. The representatives for the National Atmospheric and Oceanic Administration are:

Christopher Strager (technical)  
Director, National Weather Service Central Region  
7220 NW 101<sup>st</sup> Terrace  
Kansas City, MO 64153  
Phone: (816) 268-3130  
[christopher.strager@noaa.gov](mailto:christopher.strager@noaa.gov)

Jen Lechuga (administrative)  
Program Analyst  
Office of Chief Financial Officer  
1315 East West Highway, #15642  
Washington, DC  
Phone: (240) 533-9022  
[jennifer.lechuga@noaa.gov](mailto:jennifer.lechuga@noaa.gov)

#### **ARTICLE V. AWARD**

- A.1. Upon signature of all parties to this amendment, the Bureau of Indian Affairs and National Oceanic and Atmospheric Administration shall commit funds to the Great Plains CESU Host University in furtherance of the Agreement, to be authorized by a modification issued against the Agreement. The amount of funding shall be determined in accordance with CESU Network annual support guidelines.

## ARTICLE XIII. 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. Bureau of Reclamation
- C. U.S. Geological Survey
- D. National Park Service
- E. U.S. Fish and Wildlife Service
- F. Bureau of Indian Affairs**
- G. National Oceanic and Atmospheric Administration**

### U.S. DEPARTMENT OF AGRICULTURE

- H. U.S. Forest Service
- I. Natural Resources Conservation Service
- J. Farm Service Agency

### U.S. DEPARTMENT OF DEFENSE


- K. U.S. Army Corps of Engineers-Civil Works
- L. Office of the Deputy Under Secretary of Defense (Installations and Environment)

### M. UNIVERSITY OF NEBRASKA-LINCOLN (Host)

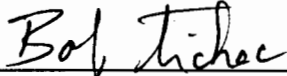
- N. Black Hills State University
- O. Colorado State University
- P. Langston University
- Q. Kansas State University
- R. North Dakota State University
- S. South Dakota State University
- T. Texas A&M AgriLife Research (formerly Texas AgriLife Research of the Texas A&M University System)
- U. University of Minnesota
- V. University of North Dakota
- W. University of Oklahoma
- X. University of South Dakota
- Y. University of Wyoming
- Z. Emporia State University
- AA. New Mexico Highlands University
- BB. South Dakota School of Mines and Technology
- CC. Winona State University
- DD. Oklahoma State University
- EE. University of Nebraska Medical Center, College of Public Health
- FF. Texas Tech University
- GG. World Wildlife Fund Northern Great Plains Program

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

A. Bureau of Land Management

  
\_\_\_\_\_  
Mary Jo Rugwell  
Acting State Director, Wyoming

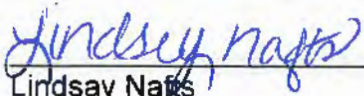
8/5/15  
Date

  
\_\_\_\_\_  
Bob Tichac  
Grants and Agreements Officer

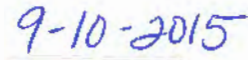
3 Aug 2015  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

B. U.S. Bureau of Reclamation




\_\_\_\_\_  
Lindsay Noffs  
Grants and Agreements Officer



\_\_\_\_\_  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

C. U.S. Geological Survey

  
\_\_\_\_\_  
Sherry Ly Bredezen  
Contracting Officer

08/18/15  
Date



**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

D. National Park Service

**JULIE HENDRICKS** Digitally signed by JULIE HENDRICKS  
DN: c=US, o=U.S. Government, ou=Department of the  
Interior, ou=National Park Service, cn=JULIE HENDRICKS,  
0.9.2342.19200300.100.1.1=14001002916599  
Date: 2015.08.14 15:45:45 -05'00'

---

Julie Hendricks  
Lead Grants and Agreements Officer

---

Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

**E. U.S. Fish and Wildlife 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.

\_\_\_\_\_  
Greg Watson  
Chief, Office of Landscape Conservation  
FWS, Mountain – Prairie Region

\_\_\_\_\_  
Date

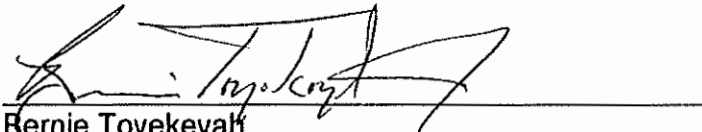
**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

**F. Bureau of Indian Affairs**



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

6/4/15  
Date

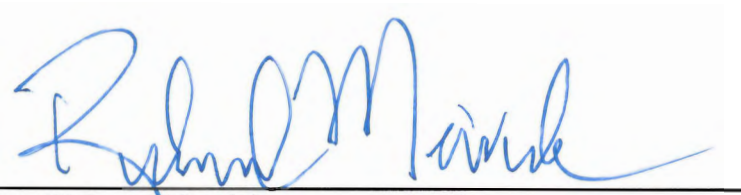


Bernie Toyekyal  
Grants Management Specialist

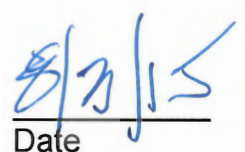
8/3/2015  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

**G. National Oceanic and Atmospheric Administration**

A handwritten signature in blue ink, appearing to read "Richard Merrick", written over a horizontal line.

Dr. Richard Merrick  
Director of Scientific Programs and Chief Science Advisor  
National Oceanic and Atmospheric Administration CESU Lead

A handwritten date "8/2/15" in blue ink, written over a horizontal line.

Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

H. U.S. Forest Service



---

Deborah M. Finch  
Program Manager

August 3, 2015  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

I. 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.

\_\_\_\_\_  
Gayle N. Barry  
Deputy Chief for Management

\_\_\_\_\_  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

J. USDA Farm Service Agency

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.

\_\_\_\_\_  
Joy Harwood  
Director, Economic and Policy Analysis Staff

\_\_\_\_\_  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

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

**MCGUFFIE.JERI.H.  
1230779046**

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: 2015.08.05 10:00:59 -05'00'

---

Jeri McGuffie  
Grants Officer

---

Date



**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

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

**ROBICHEAUX.TRACI.D.12  
60353990**

Digitally signed by ROBICHEAUX.TRACI.D.1260353990  
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,  
ou=USA, cn=ROBICHEAUX.TRACI.D.1260353990  
Date: 2015.08.25 10:43:28 -05'00'

---

Traci Robicheaux  
Grants Officer  
Representing ODUSD (I&E)

---

Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**


M. University of Nebraska-Lincoln (Host)

---

Jeanne Wicks  
Director, Office of Sponsored Programs

---

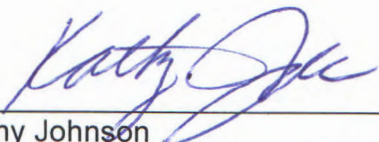
Date



Digitally signed by Christine A. Jackson  
DN: cn=Christine A. Jackson,  
o=University of Nebraska-Lincoln,  
ou=Vice Chancellor, Business and  
Finance, email=cjackson3@unl.edu,  
c=US  
Date: 2015.08.04 13:22:25 -05'00'

ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)

N. Black Hills State University

  
\_\_\_\_\_  
Kathy Johnson  
Vice President, Finance and Administration

8-27-15  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

O. Colorado State University



David B. Doty  
Associate Director, Sponsored Programs

8/14/15

Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

P. Langston University

*Dennis Howard*

*8-18-15*

---

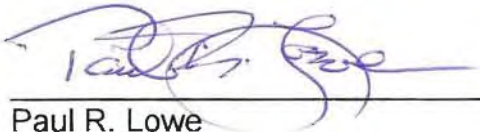
Dennis Howard  
Director, Grasslands Center of Excellence

---

Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

Q. Kansas State University



Paul R. Lowe  
Assistant Vice President for Research

8/10/2015

Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

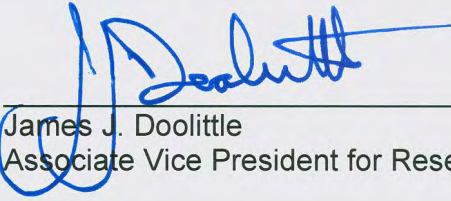
R. North Dakota State University

  
\_\_\_\_\_  
Amy Scott  
Assistant Director, Office of Sponsored Programs Administration

8-10-15  
Date

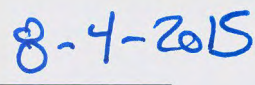
**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

S. South Dakota State University



---

James J. Doolittle  
Associate Vice President for Research



---

Date



**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

T. Texas A&M AgriLife Research (formerly Texas AgriLife Research of the Texas A&M University System)

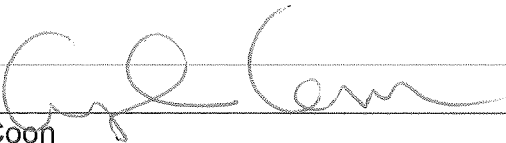
  
\_\_\_\_\_

Craig L. Nessler  
Director  
CN

8/7/2015  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

U. University of Minnesota

  
\_\_\_\_\_  
April Coon  
Assistant Director, Sponsored Programs Administration

  
\_\_\_\_\_  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

V. University of North Dakota



\_\_\_\_\_  
Michael F. Moore  
Associate Vice President for Research and Economic Development

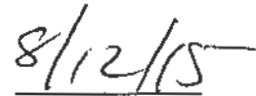
8/18/15  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

W. University of Oklahoma




\_\_\_\_\_  
Andrea Deaton  
Associate Vice President for Research



\_\_\_\_\_  
Date

ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)

X. University of South Dakota

  
\_\_\_\_\_  
Mary T Berg  
Interim Vice President for Research

8/20/15  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

Y. University of Wyoming




\_\_\_\_\_  
William A. Gern  
Vice President for Research and Economic Development

8/11/2015  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

Z. Emporia State University

  
\_\_\_\_\_  
Diana E. Kuhlmann *Finance*  
Associate Vice President for ~~Fiscal~~ Affairs

*8-18-2015*  
\_\_\_\_\_  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

AA. New Mexico Highlands University

*Kent Reid*

\_\_\_\_\_  
Kent Reid  
Director, NM Forest and Watershed Restoration Institute

*10 Aug 2015*  
\_\_\_\_\_  
Date



**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

BB. South Dakota School of Mines and Technology



---

Jan A. Puszynski, Ph.D.  
Vice President for Research


08-10-15  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

CC. Winona State University



Charla S. Miertschin  
Interim Dean, College of Science & Engineering



Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

DD. Oklahoma State University

*Toni Shaklee*

\_\_\_\_\_  
Toni Shaklee  
Assistant Vice President for Research

*8/7/15*

\_\_\_\_\_  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

EE. University of Nebraska Medical Center, College of Public Health

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.

\_\_\_\_\_  
Deborah K. Vetter  
Director, Sponsored Programs Administration

\_\_\_\_\_  
Date

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

FF. Texas Tech University

**Kathleen Harris**

Digitally signed by Kathleen Harris  
DN: cn=Kathleen Harris, o=Texas Tech  
University, ou=Office of Research Services,  
email=kathleen.harris@ttu.edu, c=US  
Date: 2015.08.17 14:51:51 -05'00'

August 17, 2015

---

Kathleen Harris

Date

Senior Associate Vice President for Research, Office of Research Services

**ARTICLE XIII. AUTHORIZING SIGNATURES (cont.)**

GG. World Wildlife Fund, Inc. Northern Great Plains Program

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.

\_\_\_\_\_  
Martha Kauffman  
Managing Director, Northern Great Plains Program

\_\_\_\_\_  
Date