

**CHESAPEAKE WATERSHED
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**

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

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

**U.S. DEPARTMENT OF DEFENSE
U.S. Army Corps of Engineers – Civil Works
Office of the Assistant Secretary of Defense for
Energy, Installations, and Environment**

and

**THE UNIVERSITY SYSTEM OF MARYLAND (HOST)
University of Maryland Center for Environmental Science
University of Maryland, College Park
University of Maryland, Baltimore County
Frostburg State University**

**American University
Anne Arundel Community College
Christopher Newport University
College of William and Mary
Delaware State University
Garrett College
George Mason University
George Washington University
Howard University**

**Indiana University of Pennsylvania
James Madison University
The Pennsylvania State University
Shippensburg University
University of Delaware
University of the District of Columbia
University of Mary Washington
University of Richmond
University of Virginia
Virginia Commonwealth University
Virginia Institute of Marine Science
The Academy of Natural Sciences
American Bird Conservancy
National Aquarium
Virginia Department of Conservation and Recreation
Western Pennsylvania Conservancy
Shepherd University
Virginia Polytechnic Institute and State University
Binghamton University
Bowie State University
Ecological Society of America
Longwood University
Maryland Institute College of Art
Morgan State University
Ohio University
Park Rx America
St. Mary's College of Maryland
Stroud Water Research Center
University of Maryland Eastern Shore
University of Pennsylvania**

**Adding:
Bureau of Indian Affairs
Bureau of Ocean Energy Management**

With the exception of the changes below, all terms and conditions of the Chesapeake Watershed 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

A.1. The Bureau of Indian Affairs (BIA) and Bureau of Ocean Energy Management (BOEM) are hereby included in the Chesapeake Watershed CESU as a Federal Agency Partners.

N. Bureau of Indian Affairs. The Bureau of Indian Affairs (hereinafter called 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. Bureau of Ocean Energy Management. The Bureau of Ocean Energy Management (hereinafter called BOEM) oversees the exploration and development of oil, natural gas and other minerals and renewable energy alternatives on the Nation's outer continental shelf. BOEM continues to look for better ways to serve the American people and to ensure that the Nation receives the best value for its resources now and into the future. The program not only supports decisions made within the Department of the Interior, but also provides

other Federal regulators, and the coastal states, and local governments with the information necessary to ensure that all stages of offshore energy and mineral activities are conducted in a manner to protect both the human and natural environments. Outer Continental Shelf Lands Act (OCSLA) (43 U.S.C. §§ 1331-1356) Section 1346 mandates the conduct of environmental and socioeconomic studies needed for the assessment and management of environmental impacts on the human, marine, and coastal environments which may be affected by oil and gas, renewable energy or mineral development. OCSLA Section 1345 authorizes the use of cooperative agreements with affected States to meet the requirements of OCSLA, including sharing of information, joint utilization of available expertise, formation of joint monitoring arrangements to carry out applicable Federal and State laws, regulations, and stipulations relevant to outer continental shelf operations both onshore and offshore. BOEM can enter into cooperative agreements with State offices, and public colleges and universities within the affected states; and is thereby authorized to enter into this cooperative agreement to continue the Chesapeake Watershed CESU to assist in providing research, technical assistance and education.

ARTICLE III. TERM OF AGREEMENT

- A.1. The effective date of the Chesapeake Watershed CESU Cooperative and Joint Venture Agreement is 05 August 2016.
- A.2. The effective date of this Amendment to the Chesapeake Watershed CESU Cooperative and Joint Venture Agreement shall be determined from the date of the last signature.

ARTICLE IV. KEY OFFICIALS

- A.10. The representatives for Bureau of Indian Affairs are:

Technical Representative(s)

Rachael Novak
Climate Science Coordinator
Bureau of Indian Affairs
1849 C Street NW, MIB 4633
Washington, DC 20240
Phone: (202) 219-1652
Fax: (202) 308-2745
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Administrative Representative(s)

Jo Ann Metcalfe
Grants Management Specialist

Bureau of Indian Affairs
12220 Sunrise Valley Drive
Reston, VA 20191
Phone: (703) 390-6410
jo.metcalfe@bia.gov

A.11. The representatives for Bureau of Ocean Energy Management are:

Technical Representative(s)

Paul O. Knorr, Ph.D.
Geologist
Marine Minerals Division
Bureau of Ocean Energy Management
45600 Woodland Road, MS-VAM-LD
Sterling, VA 20166
Phone: (703) 787-1524
paul.knorr@boem.gov

Administrative Representative(s)

Briana Robinson
Budget Analyst
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Bureau of Ocean Energy Management
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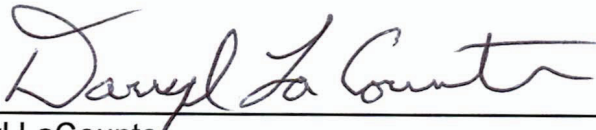
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES

Per Article III.C., the following authorizing signatures are attached:

- E. Bureau of Indian Affairs
- F. Bureau of Ocean Energy Management
- L. THE UNIVERSITY SYSTEM OF MARYLAND (HOST)
University of Maryland Center for Environmental Science

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

E. Bureau of Indian Affairs



Darryl LaCounte
Acting Director, Bureau of Indian Affairs
U.S. Department of the Interior

9-7-18

Date

BRIAN
SCHOELLKO
PF



Digitally signed by
BRIAN SCHOELLKOPF
Date: 2018.09.11
16:37:22 -04'00'

Brian Schoellkopf
Grants Management Specialist

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

F. Bureau of Ocean Energy Management

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke at the end, positioned above a solid horizontal line.

Rodney Cluck
Chief, Division of Environmental Sciences

8/24/18
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

L. THE UNIVERSITY SYSTEM OF MARYLAND (HOST)

[not required for new partner amendment]

Robert L. Caret
Chancellor

Date

L.1. University of Maryland Center for Environmental Science

**Angela
Richmond**

Digitally signed by Angela Richmond
DN: cn=Angela Richmond, o=University of
Maryland Center for Environmental Science,
ou=Office of Research Administration and
Advancement,
email=arichmond@umces.edu, c=US
Date: 2018.08.14 14:04:12 -04'00'

Angela B. Richmond
Director, Office of Research Administration and Advancement

August 14, 2018

Date