CHESAPEAKE WATERSHED
COOPERATIVE ECOSYSTEM STUDIES UNIT

AMENDMENT SIX 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 Indian Affairs
   Bureau of Ocean Energy Management

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 Sustainment

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
Association for the Study of African American Life and History
Bryn Mawr College
DC Department of Energy and Environment
Hood College
Lock Haven University
Mansfield University
Old Dominion University
Smithsonian Institution
Towson University
West Virginia University

Adding:
National Aeronautics and Space Administration
American Indian Higher Education Consortium
Association of African American Museums
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.2. The National Aeronautics and Space Administration (NASA) is hereby included in the Chesapeake Watershed CESU as a Federal Agency Partner.

M.5. The American Indian Higher Education Consortium, Association of African American Museums, Gallaudet University, Indiana University, Johns Hopkins University, Live It, Learn It, Monmouth University, NatureServe, and Temple University are hereby included in the Chesapeake Watershed CESU as Partner Institutions.

P. National Aeronautics and Space Administration. The National Aeronautics and Space Administration (hereinafter called NASA) has among its missions the utilization of aeronautical and space activities for scientific purposes, encompassing research designed to expand knowledge of the Earth, its resources, and the effects of climatic change on the transformation of its ecological systems. In addition, NASA is responsible for the environmental stewardship of the land, water, and wildlife resources under its control. In accordance with 51 U.S.C. § 20113 (e) of the National Aeronautics and Space Act of 1958 (51 U.S.C. § 20101 et seq.), NASA is 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.12. The representative for the National Aeronautics and Space Administration is as follows:

   Technical Representative(s):
   Tina Norwood
   Program Manager
   NEPA and Natural Resources
   Environmental Management Division
   NASA Headquarters
   300 E Street SW, Suite 2U82
   Washington, DC 20546
   Phone: (202) 358-7234
   tina.norwood@nasa.gov

C.53. The representatives for American Indian Higher Education Consortium are as follows:

   Technical Representative(s):
   Dr. John Phillips
   AIHEC Land Grant Programs Director
   American Indian Higher Education Consortium
   121 Oronoco Street
   Alexandria, VA 22314
   Phone: (703) 838-0400
   jphillips@aihec.org

   Administrative Representative(s):
   Al Kuslikis
   Senior Associate for Strategic Initiatives
   American Indian Higher Education Consortium
   121 Oronoco Street
   Alexandria, VA 22314
   Phone: (703) 838-0400 x121
   akuslikis@aihec.org

C.54. The representatives for Association of African American Museums are as follows:

   Technical Representative(s):
   LaNesha DeBardelaben
   Executive Director
   Northwest African American Museum
C.55. The representatives for Gallaudet University are as follows:

**Technical Representative(s):**
Caroline M. Solomon, Ph.D.
Professor of Biology and Chair
Department of Science, Technology, and Mathematics
Gallaudet University
800 Florida Ave NE
Washington, DC 20002
Phone: (202) 250-2370
caroline.solomon@gallaudet.edu

**Administrative Representative(s):**
Audrey Foster, M.S.A.
Director
Office of Sponsored Programs
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Washington, DC 20002
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audrey.foster@gallaudet.edu

C.56. The representatives for Indiana University are as follows:

**Technical Representative(s):**
Stephen A. Wolter, CPRP, CPP-I, AAPRA Fellow
Executive Director
Eppley Institute for Parks and Public Lands
Indiana University
501 N Morton Street, Suite 101
Bloomington, IN 47404
C.57. The representatives for Johns Hopkins University are as follows:

**Technical Representative(s):**
Jennifer P. Kingsley, Ph.D.
Faculty Director and Senior Lecturer
Program in Museums and Society
Johns Hopkins University
3400 North Charles Street, 301 Gilman Hall
Baltimore, MD 21218
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jkingsley@jhu.edu

**Administrative Representative(s):**
Mary Louise Healy
Assistant Dean for Research Administration
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C.58. The representatives for Live It, Learn It are as follows:

**Technical Representative(s):**
Michelle Edwards
Executive Director
Live It, Learn It
735 8th Street SE, #300
Washington, DC 20003
Phone: (202) 546-6223
edwards@liveitlearnit.org
Administrative Representative(s):

Lauren Peters  
Senior Director of Programs  
Live It, Learn It  
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development@liveitlearnit.org

C.59. The representatives for Monmouth University are as follows:

Technical Representative(s):

Keith Dunton, Ph.D.  
Assistant Professor  
Department of Biology  
Monmouth University  
400 Cedar Avenue  
West Long Branch, NJ 07764  
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kdunton@monmouth.edu

Thomas O. Herrington, Ph.D.  
Associate Director  
Urban Coast Institute  
Monmouth University  
400 Cedar Avenue  
West Long Branch, NJ 07764  
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therring@monmouth.edu

C.60. The representatives for NatureServe are as follows:

Technical Representative(s):

Don Faber-Langendoen  
Senior Ecologist and Conservation Methods Coordinator  
NatureServe  
2550 South Clark Street, Suite 930  
Arlington, VA 22202

Adjunct Associate Professor  
SUNY College of Environmental Science and Forestry  
1 Forestry Drive, Illick Hall 303  
Syracuse, NY 13210  
Phone: (703) 908-1816  
don_faber-langendoen@natureserve.org
Administrative Representative(s):
Steve Sellers
Chief Operating Officer
NatureServe
2550 South Clark Street, Suite 930
Arlington, VA 22202
Phone: (703) 908-1851
steve.sellers@natureserve.org

C.61. The representatives for Temple University are as follows:

Technical Representative(s):
Michele Masucci, Ph.D.
Vice President for Research
Temple University
1801 N Broad Street
Conwell Hall, 4th Floor, Suite 401
Philadelphia, PA 19122
Phone: (215) 204-6875
masucci@temple.edu

Administrative Representative(s):
Allison Shah
Associate Vice President for Research Administration
Temple University
1801 N Broad Street
Conwell Hall, 4th Floor, Suite 401
Philadelphia, PA 19122
Phone: (215) 206-2088
allison.shah@temple.edu
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES

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

L. National Aeronautics and Space Administration
M. THE UNIVERSITY SYSTEM OF MARYLAND (HOST)
   University of Maryland Center for Environmental Science
NNN. American Indian Higher Education Consortium
OOO. Association of African American Museums
PPP. Gallaudet University
QQQ. Indiana University
RRR. Johns Hopkins University
SSS. Live It, Learn It
TTT. Monmouth University
UUU. NatureServe
VVV. Temple University
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

L. National Aeronautics and Space Administration

Denise Thaller
Denise R. Thaller
Director
Environmental Management Division (EMD)

03/20/2020
Date
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

M. THE UNIVERSITY SYSTEM OF MARYLAND (HOST)

Robert L. Caret  Date
Chancellor

M.1. University of Maryland Center for Environmental Science

Ginger Steelman  3.18.2020
Assistant Director  Date
Office of Research Administration and Advancement
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

NNN. American Indian Higher Education Consortium

______________________________
Carrie Billy
President and CEO

3/20/2020
Date
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

OOO. Association of African American Museums

LaNesha DeBardelaben  Date  03/18/2020

AAAM President
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

PPP. Gallaudet University

[Signature]

Roberta J. Cordano
President

[Date]
March 18, 202
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

QQQ. Indiana University

_________________________  4/2/2020
Trisha Adams                      Date
Assistant Director of Research Contracting
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

RRR. Johns Hopkins University

John P. Toscano  Date
Vice Dean for Natural Sciences  March 20, 2020
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

SSS. Live It, Learn It

Michelle N. Edwards, Ed.D.
Executive Directors

3/16/2020
Date
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

TTT. Monmouth University

Rekha Datta
Interim Provost and Senior Vice President for Academic Affairs
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

UUU. NatureServe

Sean T. O’Brien
President and CEO

March 13, 2020
Date
ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

VVV. Temple University

__________________________________________
Michele Masucci
Vice President for Research and Institutional Official

Date

__________________________________________
Jaison G. Kurichi
Associate Vice President for Budget

Date

Apr 1, 2020