

115TH CONGRESS  
2D SESSION

# H. R. 5196

To require the Under Secretary of Commerce for Oceans and Atmosphere to carry out a program on coordinating the assessment and acquisition by the National Oceanic and Atmospheric Administration of unmanned maritime systems, to make available to the public data collected by the Administration using such systems, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

MARCH 7, 2018

Mr. PALAZZO (for himself and Mr. PANETTA) introduced the following bill; which was referred to the Committee on Natural Resources, and in addition to the Committees on Science, Space, and Technology, and Armed Services, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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## A BILL

To require the Under Secretary of Commerce for Oceans and Atmosphere to carry out a program on coordinating the assessment and acquisition by the National Oceanic and Atmospheric Administration of unmanned maritime systems, to make available to the public data collected by the Administration using such systems, and for other purposes.

1       *Be it enacted by the Senate and House of Representa-*  
2       *tives of the United States of America in Congress assembled,*

**1 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

2       (a) SHORT TITLE.—This Act may be cited as the  
 3     “Commercial Engagement Through Ocean Technology  
 4     Act of 2018” or the “CENOTE Act of 2018”.  
 5       (b) TABLE OF CONTENTS.—The table of contents for  
 6     this Act is as follows:

See. 1. Short title; table of contents.  
 See. 2. Definitions.

**TITLE I—ASSESSMENT AND ACQUISITION OF UNMANNED MARITIME SYSTEMS**

Sec. 101. Establishment of program on assessment and acquisition by National Oceanic and Atmospheric Administration of unmanned maritime systems.  
 Sec. 102. Regular assessment of unmanned maritime systems to support National Oceanic and Atmospheric Administration missions.  
 Sec. 103. Acquisition of unmanned maritime systems.  
 Sec. 104. Annual report on unmanned maritime systems and effects on mission of the National Oceanic and Atmospheric Administration.  
 Sec. 105. Additional authorities.

**TITLE II—AVAILABILITY OF DATA FROM UNMANNED MARITIME SYSTEMS**

Sec. 201. Public availability of data collected by National Oceanic and Atmospheric Administration using unmanned maritime systems.  
 Sec. 202. Public engagement on matters relating to data collected by National Oceanic and Atmospheric Administration using unmanned maritime systems.  
 Sec. 203. Facilitating joint projects between National Oceanic and Atmospheric Administration and private industry on unmanned maritime systems.

**7 SEC. 2. DEFINITIONS.**

8       In this Act:  
 9           (1) ADMINISTRATION.—The term “Administration” means the National Oceanic and Atmospheric  
 10          Administration.  
 11           (2) ADMINISTRATOR.—The term “Administrator” means the Under Secretary of Commerce for

1       Oceans and Atmosphere and Administrator of the  
2       National Oceanic and Atmospheric Administration.

3                     (3) COOPERATIVE ACTIVITIES OF THE ADMINIS-  
4       TRATION.—The term “cooperative activities of the  
5       Administration” means cooperative activities be-  
6       tween the Administration and an external entity,  
7       such as the Cooperative Institutes, Sea Grant Col-  
8       leges, National Estuarine Research Reserves, the  
9       National Oceanographic Partnership Program estab-  
10      lished under chapter 665 of title 10, United States  
11      Code, and regional associations of the Integrated  
12      Ocean Observing System.

13                    (4) CURATE THE DATA AND DATA CURATION.—  
14       The terms “curate the data” and “data curation”  
15       shall encompass the processes of conducting quality  
16       assurance and quality control measures for data,  
17       capturing associated appropriate metadata, elec-  
18       tronic storage and back up of the data, and ensuring  
19       accessibility of the data.

20                   (5) DATA SPECIFICATIONS.—The term “data  
21       specifications” shall refer to the type, resolution, pe-  
22       riodicity, and quality of data required by a program  
23       of the Administration.

24                   (6) PROGRAM.—The term “Program” means  
25       the program established under section 101(a).

(7) TEST OR TRAINING RANGE.—

(A) IN GENERAL.—The term “test or training range” means an area designated for operating unmanned maritime systems and other types of systems for the purpose of—

(i) evaluating the performance of such

systems; or

(ii) training personnel on operating procedures for such systems.

(B) INCLUSIONS.—The term “test or training range” may include specialized fixed or mobile instrumentation for the operation of uncrewed maritime systems and other types of systems.

(8) UNMANNED MARITIME SYSTEMS.—

(A) IN GENERAL.—The term “unmanned maritime systems” means remotely operated or autonomous vehicles produced by the commercial sector—

(i) designed to travel in the air, on or under the ocean surface, on land, or any combination, and that function without an on-board human presence; and

(ii) that may include associated components such as control and communica-

tions, data transmission, and processing systems.

(B) EXAMPLES.—The term “unmanned maritime systems” includes the following:



11 **TITLE I—ASSESSMENT AND AC-**  
12 **QUISITION OF UNMANNED**  
13 **MARITIME SYSTEMS**

14 SEC. 101. ESTABLISHMENT OF PROGRAM ON ASSESSMENT  
15 AND ACQUISITION BY NATIONAL OCEANIC  
16 AND ATMOSPHERIC ADMINISTRATION OF UN-  
17 MANNED MARITIME SYSTEMS.

18 (a) ESTABLISHMENT.—The Administrator shall es-  
19 tablish within the Office of Oceanic and Atmospheric Re-  
20 search (OAR) and the Office of Marine and Aviation Oper-  
21 ations (OMAO) a joint program office to coordinate the  
22 Administration's research, assessment, and acquisition of  
23 unmanned maritime systems. The program established  
24 under this section shall also consider the use of unmanned

1 maritime systems in cooperative activities of the Adminis-  
2 tration.

3 (b) COORDINATION WITHIN THE ADMINISTRA-  
4 TION.—

5 (1) AUTHORITY TO ESTABLISH COORDINATING  
6 COMMITTEE.—The Administrator shall establish a  
7 coordinating committee to ensure that the Program  
8 addresses requirements throughout the Administra-  
9 tion.

10 (2) INCLUDED.—In establishing a coordinating  
11 committee under paragraph (1), the Administrator  
12 shall ensure that representation in the committee is  
13 included from the following:

14 (A) The Office of Ocean Exploration  
15 (OER).

16 (B) The program office of the Integrated  
17 Ocean Observing System.

18 (C) Such other offices of the Administra-  
19 tion as the Administrator determines are ac-  
20 tively engaged with unmanned maritime sys-  
21 tems.

22 (3) DESIGNATION.—A coordinating committee  
23 established under paragraph (1) shall be known as  
24 the “Unmanned Maritime Systems Ocean Tech-  
25 nology Coordinating Committee”.

1                   (c) COORDINATION WITH THE NAVY.—

2                   (1) IN GENERAL.—In carrying out the Pro-  
3                   gram, the Administrator shall—

4                   (A) make efforts to coordinate with the  
5                   Secretary of the Navy to leverage expertise in  
6                   the development and operational transition of  
7                   unmanned maritime systems;

8                   (B) align with, utilize, and inform the  
9                   Deputy Under Secretary of Commerce for Op-  
10                  erations and the Oceanographer of the Navy's  
11                  strategic and operational priorities, particularly  
12                  for missions and geography within the Adminis-  
13                  tration's purview;

14                  (C) seek to utilize Naval unmanned sys-  
15                  tems test or training ranges, such as the Gulf  
16                  of Mexico Unmanned Systems Test and Train-  
17                  ing Range of the Naval Meteorology and Ocean-  
18                  ography Command, and maximize interagency  
19                  cooperation and sharing of best practices;

20                  (D) to formalize coordination, execute a  
21                  memorandum of understanding with the Sec-  
22                  retary of the Navy that includes—

23                  (i) incorporating consideration of pri-  
24                  orities and requirements of the Adminis-  
25                  tration into research and development ac-

1                   tivities conducted by the Secretary of the  
2                   Navy;

3                   (ii) consultation intended to encourage  
4                   and facilitate efforts by the Administration  
5                   to partner with the Navy to procure un-  
6                   manned maritime systems and to establish,  
7                   instrument, and operate test or training  
8                   ranges and related facilities;

9                   (iii) adopting procedures defined by  
10                  the Secretary of the Navy for the Adminis-  
11                  tration to access and utilize test or train-  
12                  ing ranges or related Naval facilities for  
13                  purposes identified in paragraph (2)(B);  
14                  and

15                  (iv) such other topics as the Adminis-  
16                  trator considers necessary or advisable, in-  
17                  cluding mapping, bathymetry, observations,  
18                  and ocean exploration; and

19                  (E) make efforts to coordinate with the  
20                  United States Naval Postgraduate School to  
21                  utilize its advanced infrastructure, laboratory  
22                  facilities, student-faculty expertise, and research  
23                  and development programs.

24                  (2) LOCATION.—The Administrator shall, if  
25                  practicable, carry out the Program at a facility

1       where the Navy and the Administration are co-lo-  
2       cated, for the following purposes:

3                     (A) Gaining efficiencies through collabora-  
4                     tion.

5                     (B) Advancing development of unmanned  
6                     maritime systems, including—

- 7                         (i) systems research and development;
- 8                         (ii) systems testing;
- 9                         (iii) systems modifications; and
- 10                       (iv) systems integration.

11                     (C) Accelerating transition from concept to  
12                     manufacturing and acquisition.

13                     (d) COORDINATION WITH OTHER FEDERAL AGEN-  
14 CIES.—In carrying out the Program, the Administrator  
15 and the Secretary of the Navy may utilize the National  
16 Oceanographic Partnership Program, established under  
17 chapter 665 of title 10, United States Code, as a mecha-  
18 nism for providing interagency coordination for the ad-  
19 vancement of unmanned maritime systems.

20                     (e) COORDINATION WITH ACADEMIC SECTOR.—In  
21 carrying out the Program, to the extent approved by the  
22 Secretary of the Navy, the Administrator or the Secretary  
23 of the Navy may coordinate and co-locate with an aca-  
24 demic research institution, or consortium of academic re-  
25 search institutions, for the following purposes:

1                   (1) Maximizing opportunities for research and  
2 development of unmanned maritime systems.

3                   (2) Providing training in unmanned maritime  
4 systems as part of an accredited certificate or degree  
5 program of education.

6                   (3) Facilitating the commercialization of un-  
7 manned maritime systems through public-private  
8 partnerships that includes academic research institu-  
9 tions, private industry, and public safety agencies.

10                  (4) Arranging access to and use of additional  
11 facilities that support testing and assessment of or  
12 training with respect to unmanned maritime systems  
13 under environmental conditions of interest, increas-  
14 ing operational tolerance under such conditions, cer-  
15 tifying operational capacity under such conditions,  
16 whether real or simulated, and training operators of  
17 unmanned maritime systems in real or simulated en-  
18 vironments.

19                  (5) Facilitating engagement with other aca-  
20 demic institutions with interest or relevant expertise  
21 in unmanned maritime systems.

22                  (6) Promoting information sharing between the  
23 academic, environmental, and military institutions to  
24 lead to more robust, mission-oriented unmanned  
25 maritime systems.

1           (f) ENGAGEMENT WITH THE PRIVATE SECTOR.—

2 Other than as described in subsection (e) and to the extent  
3 approved by the Secretary of the Navy, the Administrator  
4 or the Secretary of the Navy may, in carrying out the Pro-  
5 gram, to the extent practicable, coordinate and consult  
6 with the private sector—

7           (1) to support the commercialization of un-  
8 manned maritime systems; and

9           (2) to assist with their assessment of commer-  
10 cially available unmanned maritime systems to sup-  
11 port the missions and goals of the Navy, the Admin-  
12 istration, and cooperative activities of the Adminis-  
13 tration.

14 **SEC. 102. REGULAR ASSESSMENT OF UNMANNED MARITIME**  
15 **SYSTEMS TO SUPPORT NATIONAL OCEANIC**  
16 **AND ATMOSPHERIC ADMINISTRATION MIS-**  
17 **SIONS.**

18       (a) IN GENERAL.—The Administrator, acting  
19 through the Assistant Administrator for Oceanic and At-  
20 mospheric Research and the Director of the Office of Ma-  
21 rine and Aviation Operations and the National Oceanic  
22 and Atmospheric Administration Commissioned Officer  
23 Corps, shall regularly assess publicly and commercially  
24 available unmanned maritime systems for potential use to  
25 support missions of the Administration.

1       (b) SCIENCE-BASED ASSESSMENTS.—The Adminis-  
2 trator shall carry out subsection (a) through the Assistant  
3 Administrator for all matters relating to assessment of the  
4 suitability of unmanned maritime systems to meet data  
5 specifications required by programs of the Administration.

6       (c) ASSESSMENT OF OPERATIONAL UTILITY.—The  
7 Administrator shall carry out subsection (a) through the  
8 Director for all matters relating to assessment of whether  
9 unmanned maritime systems are operationally reliable  
10 enough to make in situ observations required by programs  
11 of the Administration.

12       (d) ENGAGEMENT.—The Assistant Administrator  
13 and the Director shall jointly consult with the heads of  
14 other offices of the Administration, with the academic sec-  
15 tor, and with developers and manufacturers of unmanned  
16 maritime systems to conduct the assessments under sub-  
17 section (a).

18 **SEC. 103. ACQUISITION OF UNMANNED MARITIME SYS-**  
19 **TEMS.**

20       (a) IN GENERAL.—The Administrator shall coordi-  
21 nate and centralize the acquisition by the Administration  
22 of unmanned maritime systems to meet the prioritized list  
23 of data requirements identified under section 104(b)(2).

24       (b) MEMORANDA OF UNDERSTANDING.—In order to  
25 realize greater savings and efficiency, the Administrator

1 may develop and execute a memorandum of agreement  
2 with the Secretary of the Navy to—

3                 (1) participate in procurements conducted by  
4                 that Office;

5                 (2) accept decommissioned unmanned maritime  
6                 systems from that Office;

7                 (3) develop policies and procedures to share un-  
8                 manned maritime systems; or

9                 (4) provide for other means of creating effi-  
10                 ciency and savings in Federal acquisition of un-  
11                 manned maritime systems.

12                 (c) RULE OF CONSTRUCTION.—Nothing in this Act  
13 shall be construed to modify Federal procurement law.

14 **SEC. 104. ANNUAL REPORT ON UNMANNED MARITIME SYS-**  
15                 **TEMS AND EFFECTS ON MISSION OF THE NA-**  
16                 **TIONAL OCEANIC AND ATMOSPHERIC ADMIN-**  
17                 **ISTRATION.**

18                 (a) IN GENERAL.—In carrying out the Program, the  
19 Administrator shall, not later than one year after the date  
20 of the enactment of this Act, and every four years there-  
21 after, submit to the appropriate committees of Congress  
22 a report on the effects of unmanned maritime systems on  
23 the mission of the Administration.

1       (b) CONTENTS.—Each report submitted under sub-  
2 section (a) shall include, for the period covered by the re-  
3 port, the following:

4                 (1) An inventory of current unmanned maritime  
5 systems used by programs of the Administration, a  
6 summary of the data they have returned, and the  
7 benefits realized from having such data.

8                 (2) A prioritized list of data requirements of  
9 the Administration that could be met with un-  
10 manned maritime systems, and the estimated cost of  
11 acquiring such systems and data.

12       (c) APPROPRIATE COMMITTEES OF CONGRESS DE-  
13 FINED.—In this section, the term “appropriate commit-  
14 tees of Congress” means—

15                 (1) the Committee on Appropriations, the Com-  
16 mittee on Armed Services, and the Committee on  
17 Commerce, Science, and Transportation of the Sen-  
18 ate; and

19                 (2) the Committee on Appropriations, the Com-  
20 mittee on Armed Services, the Committee on Nat-  
21 ural Resources, and the Committee on Science,  
22 Space, and Technology of the House of Representa-  
23 tives.

24 **SEC. 105. ADDITIONAL AUTHORITIES.**

25       In carrying out this title, the Administrator may—

1                   (1) enter into contracts, cooperative agree-  
2                   ments, and other transactions;  
3                   (2) notwithstanding section 1342 of title 31,  
4                   United States Code, accept donations and voluntary  
5                   and uncompensated services;  
6                   (3) accept funds from other Federal depart-  
7                   ments and agencies;  
8                   (4) utilize the National Oceanographic Partner-  
9                   ship Program established under chapter 665 of title  
10                  10, United States Code, to accept funds from other  
11                  Federal departments and agencies, to accept dona-  
12                  tions, and to enter into contracts and award grants;  
13                  and  
14                  (5) promulgate such rules and regulations as  
15                  may be necessary and appropriate.

16                  **TITLE II—AVAILABILITY OF**  
17                  **DATA FROM UNMANNED MAR-**  
18                  **ITIME SYSTEMS**

19                  **SEC. 201. PUBLIC AVAILABILITY OF DATA COLLECTED BY**  
20                  **NATIONAL OCEANIC AND ATMOSPHERIC AD-**  
21                  **MINISTRATION USING UNMANNED MARITIME**  
22                  **SYSTEMS.**

23                  (a) AVAILABLE TO THE PUBLIC.—  
24                   (1) IN GENERAL.—Except as provided in para-  
25                  graph (2), the Administrator shall make available,

1 free of charge, to the public all data collected by the  
2 Administrator with the use of unmanned maritime  
3 systems.

4 (2) EXCEPTION.—The Administrator shall not  
5 make data described in paragraph (1) available as  
6 described in such paragraph if—

7 (A) the Secretary of the Navy determines  
8 that the data is subject to a restriction on avail-  
9 ability, in whole or in part and on a term or  
10 permanent basis, relating to national security;  
11 or

12 (B) the Administrator, in consultation with  
13 the Secretary of the Navy, determines the data  
14 is subject to a restriction on availability due to  
15 the need for protection of intellectual property  
16 or for pre-publication academic use.

17 (b) PROGRAM OF CURATION AND DISTRIBUTION OF  
18 DATA.—

19 (1) AVAILABILITY.—The Administrator, acting  
20 through the Assistant Administrator for Satellite  
21 and Information Services and the Assistant Admin-  
22 istrator of the National Ocean Service jointly, shall  
23 use existing secure infrastructure such as the Inte-  
24 grated Ocean Observing System—

5                         (2) DISTRIBUTION.—In carrying out the pro-  
6                         gram required by paragraph (1), the Administrator  
7                         shall use efforts that were in effect on the day before  
8                         the date of the enactment of this Act, such as the  
9                         data management framework of the Integrated  
10                         Ocean Observing System for Federal and non-Fed-  
11                         eral partnerships, to make data made available  
12                         under subsection (a)(1) easily accessible to a wide  
13                         range of users and stakeholders.

1   **SEC. 202. PUBLIC ENGAGEMENT ON MATTERS RELATING**  
2                   **TO DATA COLLECTED BY NATIONAL OCEANIC**  
3                   **AND ATMOSPHERIC ADMINISTRATION USING**  
4                   **UNMANNED MARITIME SYSTEMS.**

5       (a) IN GENERAL.—Subject to subsection (b), the As-  
6 sistant Administrator for Satellite and Information Serv-  
7 ices and the Assistant Administrator of the National  
8 Ocean Service shall jointly engage in cooperative activities  
9 of the Administration and with other interested users or  
10 potential users, including users from the academic, com-  
11 mercial, government, and not-for-profit sectors, as well as  
12 the general public to ensure that—

13                  (1) data are made available under section 201  
14                  in formats that are—

15                          (A) useful; and  
16                          (B) to the extent practicable, consistent  
17                  and interoperable with data collected by the In-  
18                  tegrated Ocean Observing System;

19                  (2) users and potential users of data made  
20                  available under section 201 are aware of the range  
21                  of data available under such section; and

22                  (3) the Administration—  
23                          (A) develops a better understanding of  
24                  data needs from users and potential users; and  
25                          (B) anticipates future data infrastructure  
26                  needs to meet growing demands for access to

1           data sets of the Administration from commer-  
2           cial applications.

3         (b) APPROVAL OF SECRETARY OF THE NAVY.—Coop-  
4 erative activities may be carried out under subsection (a)  
5 only to the extent that the Secretary of the Navy approves  
6 data made available under section 201 for release to the  
7 public after the Secretary determines there are no national  
8 security implications relating to that data.

9         (c) TECHNICAL ASSISTANCE.—The Assistant Admin-  
10 istrator for Satellite and Information Services and the As-  
11 sistant Administrator of the National Ocean Service shall  
12 jointly provide technical assistance to users or potential  
13 users on accessing the data provided under section 201.

14 **SEC. 203. FACILITATING JOINT PROJECTS BETWEEN NA-**  
15 **TIONAL OCEANIC AND ATMOSPHERIC ADMIN-**  
16 **ISTRATION AND PRIVATE INDUSTRY ON UN-**  
17 **MANNED MARITIME SYSTEMS.**

18         (a) IN GENERAL.—In carrying out the program re-  
19 quired by section 201(b)(1), the Administrator shall de-  
20 velop and implement a process to facilitate joint projects  
21 among private industry, research institutions, and other  
22 non-Federal entities with unmanned maritime systems ex-  
23 pertise for the following purposes:

1                   (1) Improving ocean observing capabilities to  
2 monitor the physical, chemical, and biological condi-  
3 tions of the ocean.

4                   (2) Increasing cost effectiveness of developing  
5 technologies relating to unmanned maritime systems.

6                   (3) Seeking efficiencies in data collection and  
7 management through in the development and deploy-  
8 ment of unmanned maritime systems.

9                   (4) Expanding global capabilities of ocean tech-  
10 nology.

11                  (5) Capitalizing on emerging technological ad-  
12 vances.

13                 (b) USE OF EXISTING PARTNERSHIPS.—The Admin-  
14 istrator may consider using partnerships in existence on  
15 the day before the date of the enactment of this Act, such  
16 as such partnerships established through the National  
17 Oceanographic Partnership Program, for carrying out this  
18 section.

