

AMENDMENT NO. _____ Calendar No. _____

Purpose: In the nature of a substitute.

IN THE SENATE OF THE UNITED STATES—117th Cong., 1st Sess.

S. 381

To establish the National Ocean Mapping, Exploration, and Characterization Council, and for other purposes.

Referred to the Committee on _____ and ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENT IN THE NATURE OF A SUBSTITUTE intended to be proposed by Mr. WICKER

Viz:

1 Strike all after the enacting clause and insert the fol-
2 lowing:

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “National Ocean Explo-
5 ration Act”.

6 **SEC. 2. FINDINGS.**

7 Congress makes the following findings:

8 (1) The health and resilience of the ocean are
9 vital to the security and economy of the United
10 States and to the lives of the people of the United
11 States.

1 (2) The United States depends on the ocean to
2 regulate weather and climate, to sustain and protect
3 the diversity of life, for maritime shipping, for na-
4 tional defense, and for food, energy, medicine, recre-
5 ation, and other services essential to the people of
6 the United States and all humankind.

7 (3) The prosperity, security, and well-being of
8 the United States depend on successful under-
9 standing and stewardship of the ocean.

10 (4) Interdisciplinary cooperation and engage-
11 ment among government agencies, research institu-
12 tions, nongovernmental organizations, States, Indian
13 Tribes, and the private sector are essential for suc-
14 cessful stewardship of ocean and coastal environ-
15 ments, national economic growth, national security,
16 and development of agile strategies that develop,
17 promote, and use new technologies.

18 (5) Ocean exploration can help the people of the
19 United States understand how to be effective stew-
20 ards of the ocean and serve as catalysts and enablers
21 for other sectors of the economy.

22 (6) Mapping, exploration, and characterization
23 of the ocean provides basic, essential information to
24 protect and restore the marine environment, stimu-

1 late economic activity, and provide security for the
2 United States.

3 (7) A robust national ocean exploration pro-
4 gram engaging multiple Federal agencies, Indian
5 Tribes, the private sector, nongovernmental organi-
6 zations, and academia is—

7 (A) essential to the interests of the United
8 States and vital to its security and economy
9 and the health and well-being of all people of
10 the United States; and

11 (B) critical to reestablish the United
12 States at the forefront of global ocean explo-
13 ration and stewardship.

14 **SEC. 3. DEFINITIONS.**

15 In this Act:

16 (1) **CHARACTERIZATION.**—The term “charac-
17 terization” refers to activities that provide com-
18 prehensive data and interpretations for a specific
19 area of interest of the seafloor, sub-bottom, water
20 column, or hydrologic features, such as water masses
21 and currents, in direct support of specific research,
22 environmental protection, resource management, pol-
23 icymaking, or applied mission objectives.

24 (2) **EXPLORATION.**—The term “exploration” re-
25 fers to activities that provide—

1 (A) a multidisciplinary view of an unknown
2 or poorly understood area of the seafloor, sub-
3 bottom, or water column; and

4 (B) an initial assessment of the physical,
5 chemical, geological, biological, archeological, or
6 other characteristics of such an area.

7 (3) INDIAN TRIBE.—The term “Indian Tribe”
8 has the meaning given that term in section 4 of the
9 Indian Self-Determination and Education Assistance
10 Act (25 U.S.C. 5304).

11 (4) MAPPING.—The term “mapping” refers to
12 activities that provide comprehensive data and infor-
13 mation needed to understand seafloor characteris-
14 tics, such as depth, topography, bottom type, sedi-
15 ment composition and distribution, underlying geo-
16 logic structure, and benthic flora and fauna.

17 **SEC. 4. OCEAN POLICY COMMITTEE.**

18 (a) SUBCOMMITTEES.—Section 8932(c) of title 10,
19 United States Code, is amended to read as follows:

20 “(c) SUBCOMMITTEES.—(1) The Committee shall in-
21 clude—

22 “(A) a subcommittee to be known as the ‘Ocean
23 Science and Technology Subcommittee’; and

24 “(B) a subcommittee to be known as the ‘Ocean
25 Resource Management Subcommittee’.

1 “(2) In discharging its responsibilities in support of
2 agreed-upon scientific needs, and to assist in the execution
3 of the responsibilities described in subsection (b), the
4 Committee may delegate responsibilities to the Ocean
5 Science and Technology Subcommittee, the Ocean Re-
6 source Management Subcommittee, or another sub-
7 committee of the Committee, as the Committee determines
8 appropriate.”.

9 (b) INCREASED ACCESS TO GEOSPATIAL DATA FOR
10 MORE EFFICIENT AND INFORMED DECISION MAKING.—

11 (1) ESTABLISHMENT OF DOCUMENT SYSTEM.—

12 Section 8932(b) of title 10, United States Code, is
13 amended—

14 (A) in paragraph (3), by striking “and” at
15 the end;

16 (B) in paragraph (4)(F), by striking the
17 period at the end and inserting “; and”; and

18 (C) by adding at the end the following new
19 paragraph:

20 “(5) establish or designate one or more systems
21 for ocean-related documents prepared under the Na-
22 tional Environmental Policy Act of 1969 (42 U.S.C.
23 4321 et seq.), in accordance with subsection (h).”.

24 (2) ELEMENTS.—Section 8932 of such title is
25 amended—

1 (A) by redesignating subsection (h) as sub-
2 section (i); and

3 (B) by inserting after subsection (g) the
4 following new subsection (h):

5 “(h) ELEMENTS OF DOCUMENT SYSTEM.—The sys-
6 tems established or designated under subsection (b)(5)
7 shall include the following:

8 “(1) A publicly accessible, centralized digital ar-
9 chive of documents described in subsection (b)(5)
10 that are finalized after the date of the enactment of
11 the National Ocean Exploration Act, including—

12 “(A) environmental impact statements;

13 “(B) environmental assessments;

14 “(C) categorical exclusions;

15 “(D) records of decision; and

16 “(E) other relevant documents as deter-
17 mined by the Committee.

18 “(2) Geospatially referenced data, if any, con-
19 tained in the documents under paragraph (1).

20 “(3) A mechanism to retrieve information
21 through geo-information tools that can map and in-
22 tegrate relevant geospatial information, such as—

23 “(A) Ocean Report Tools;

24 “(B) the Environmental Studies Program
25 Information System;

1 “(C) Regional Ocean Partnerships; and
2 “(D) the Integrated Ocean Observing Sys-
3 tem.”.

4 **SEC. 5. NATIONAL OCEAN MAPPING, EXPLORATION, AND**
5 **CHARACTERIZATION COUNCIL.**

6 (a) **ESTABLISHMENT.**—The President shall establish
7 a council, to be known as the “National Ocean Mapping,
8 Exploration, and Characterization Council” (in this sec-
9 tion referred to as the “Council”).

10 (b) **PURPOSE.**—The Council shall—

11 (1) update national priorities for ocean map-
12 ping, exploration, and characterization; and

13 (2) coordinate and facilitate activities to ad-
14 vance those priorities.

15 (c) **REPORTING.**—The Council shall report to the
16 Ocean Science and Technology Subcommittee of the
17 Ocean Policy Committee established under section 8932(c)
18 of title 10, United States Code.

19 (d) **MEMBERSHIP.**—The Council shall be composed of
20 not fewer than one senior-level representative from each
21 of the following:

22 (1) The Department of the Navy.

23 (2) The Department of the Interior.

24 (3) The National Oceanic and Atmospheric Ad-
25 ministration.

1 (4) The department in which the Coast Guard
2 is operating.

3 (5) The Office of Management and Budget.

4 (6) The Office of Science and Technology Pol-
5 icy.

6 (7) The National Science Foundation.

7 (8) The National Aeronautics and Space Ad-
8 ministration.

9 (9) The Marine Mammal Commission.

10 (10) The Department of Transportation.

11 (11) The Department of Energy.

12 (12) The Office of the Director of National In-
13 telligence.

14 (e) CO-CHAIRS.—The Council shall be co-chaired
15 by—

16 (1) two senior-level representatives from the
17 National Oceanic and Atmospheric Administration;
18 and

19 (2) one senior-level representative from the De-
20 partment of the Interior.

21 (f) DUTIES.—The Council shall—

22 (1) set national ocean mapping, exploration,
23 and characterization priorities and strategies;

24 (2) cultivate and facilitate transparent and sus-
25 tained partnerships among Federal and State agen-

1 cies, Indian Tribes, private industry, academia, and
2 nongovernmental organizations to conduct ocean
3 mapping, exploration, and characterization activities
4 and related technology development;

5 (3) coordinate improved processes for data com-
6 pilation, management, access, synthesis, and visual-
7 ization with respect to ocean mapping, exploration,
8 and characterization, with a focus on building on ex-
9 isting ocean data management systems, as appro-
10 priate;

11 (4) encourage education, workforce training,
12 and public engagement activities that—

13 (A) advance interdisciplinary principles
14 that contribute to ocean mapping, exploration,
15 research, and characterization;

16 (B) improve public engagement with and
17 understanding of ocean science; and

18 (C) provide opportunities for underserved
19 populations;

20 (5) coordinate activities as appropriate with do-
21 mestic and international ocean mapping, exploration,
22 and characterization initiatives or programs; and

23 (6) establish and monitor metrics to track
24 progress in achieving the priorities set under para-
25 graph (1).

1 (g) INTERAGENCY WORKING GROUP ON OCEAN EX-
2 PLORATION AND CHARACTERIZATION.—

3 (1) ESTABLISHMENT.—The President shall es-
4 tablish a new interagency working group to be
5 known as the “Interagency Working Group on
6 Ocean Exploration and Characterization”.

7 (2) MEMBERSHIP.—The Interagency Working
8 Group on Ocean Exploration and Characterization
9 shall be comprised of senior representatives from
10 Federal agencies with ocean exploration and charac-
11 terization responsibilities.

12 (3) FUNCTIONS.—The Interagency Working
13 Group on Ocean Exploration and Characterization
14 shall support the Council and the Ocean Science and
15 Technology Subcommittee of the Ocean Policy Com-
16 mittee established under section 8932(c) of title 10,
17 United States Code, on ocean exploration and char-
18 acterization activities and associated technology de-
19 velopment across the Federal Government, State
20 governments, Indian Tribes, private industry, non-
21 governmental organizations, and academia.

22 (h) OVERSIGHT.—The Council shall oversee—

23 (1) the Interagency Working Group on Ocean
24 Exploration and Characterization established under
25 subsection (g)(1); and

1 (2) the Interagency Working Group on Ocean
2 and Coastal Mapping under section 12203 of the
3 Ocean and Coastal Mapping Integration Act (33
4 U.S.C. 3502).

5 (i) PLAN.—

6 (1) IN GENERAL.—Not later than 1 year after
7 the date of the enactment of this Act, the Council
8 shall develop or update and submit to the appro-
9 priate committees of Congress a plan for an inte-
10 grated cross-sectoral ocean mapping, exploration,
11 and characterization initiative.

12 (2) ELEMENTS.—The plan required by para-
13 graph (1) shall—

14 (A) discuss the utility and benefits of
15 ocean exploration and characterization;

16 (B) identify and describe national ocean
17 mapping, exploration, and characterization pri-
18 orities;

19 (C) identify and describe Federal and fed-
20 erally funded ocean mapping, exploration, and
21 characterization programs;

22 (D) facilitate and incorporate non-Federal
23 input into national ocean mapping, exploration,
24 and characterization priorities;

1 (E) ensure effective coordination of ocean
2 mapping, exploration, and characterization ac-
3 tivities among programs described in subpara-
4 graph (C);

5 (F) identify opportunities for combining
6 overlapping or complementary needs, activities,
7 and resources of Federal agencies and non-Fed-
8 eral organizations relating to ocean mapping,
9 exploration, and characterization while not re-
10 ducing benefits from existing mapping, explo-
11 rations, and characterization activities;

12 (G) promote new and existing partnerships
13 among Federal and State agencies, Indian
14 Tribes, private industry, academia, and non-
15 governmental organizations to conduct or sup-
16 port ocean mapping, exploration, and character-
17 ization activities and technology development
18 needs, including through coordination under
19 section 3 of the Commercial Engagement
20 Through Ocean Technology Act of 2018 (33
21 U.S.C. 4102) and the National Oceanographic
22 Partnership Program under section 8931 of
23 title 10, United States Code;

24 (H) develop a transparent and sustained
25 mechanism for non-Federal partnerships and

1 stakeholder engagement in strategic planning
2 and mission execution to be implemented not
3 later than December 31, 2022;

4 (I) establish standardized collection and
5 data management protocols, such as with re-
6 spect to metadata, for ocean mapping, explo-
7 ration, and characterization;

8 (J) encourage the development, testing,
9 demonstration, and adoption of innovative
10 ocean mapping, exploration, and characteriza-
11 tion technologies and applications;

12 (K) promote protocols for accepting data,
13 equipment, approaches, or other resources that
14 support national ocean mapping, exploration,
15 and characterization priorities;

16 (L) identify best practices for the protec-
17 tion of marine life during mapping, exploration,
18 and characterization activities;

19 (M) identify training, technology, and
20 other resource requirements for enabling the
21 National Oceanic and Atmospheric Administra-
22 tion and other appropriate Federal agencies to
23 support a coordinated national ocean mapping,
24 exploration, and characterization effort;

1 (N) identify and facilitate a centralized
2 mechanism or office for coordinating data col-
3 lection, compilation, processing, archiving, and
4 dissemination activities relating to ocean map-
5 ping, exploration, and characterization that
6 meets Federal mandates for data accuracy and
7 accessibility;

8 (O) designate repositories responsible for
9 archiving and managing ocean mapping, explo-
10 ration, and characterization data;

11 (P) set forth a timetable and estimated
12 costs for implementation and completion of the
13 plan;

14 (Q) to the extent practicable, align ocean
15 exploration and characterization efforts with ex-
16 isting programs and identify key gaps; and

17 (R) identify criteria for determining the
18 optimal frequency of observations.

19 (j) BRIEFINGS.—Not later than 1 year after the date
20 of the enactment of this Act, and not less frequently than
21 once every 2 years thereafter, the Council shall brief the
22 appropriate committees of Congress on—

23 (1) progress made toward meeting the national
24 priorities described in subsection (i)(2)(B); and

1 (1) in the first sentence, by striking “and un-
2 dersea”; and

3 (2) in the second sentence, by striking “and un-
4 dersea research and exploration” and inserting “re-
5 search and ocean exploration and characterization
6 efforts”.

7 (c) POWERS AND DUTIES OF THE ADMINIS-
8 TRATOR.—

9 (1) IN GENERAL.—Section 12003(a) of such
10 Act (33 U.S.C. 3403(a)) is amended—

11 (A) in the matter preceding paragraph (1),
12 by inserting “, in coordination with the Ocean
13 Policy Committee established under section
14 8932 of title 10, United States Code,” after
15 “Administration”;

16 (B) in paragraph (1)—

17 (i) by striking “voyages” and insert-
18 ing “expeditions”;

19 (ii) by striking “Federal agencies”
20 and all that follows through “and survey”
21 and inserting “Federal and State agencies,
22 Tribal governments, private industry, aca-
23 demia, and nongovernmental organizations,
24 to map, explore, and characterize”; and

1 (iii) by inserting “characterize,” after

2 “observe,”;

3 (C) in paragraph (2), by inserting “of the
4 exclusive economic zone” after “deep ocean re-
5 gions”;

6 (D) in paragraph (3), by striking “voy-
7 ages” and inserting “expeditions”;

8 (E) in paragraph (4), by striking “, in con-
9 sultation with the National Science Founda-
10 tion,”;

11 (F) by amending paragraph (5) to read as
12 follows:

13 “(5) support technological innovation of the
14 United States marine science community by pro-
15 moting the development and use of new and emerg-
16 ing technologies for research, communication, navi-
17 gation, and data collection, such as sensors and au-
18 tonomous vehicles;”;

19 (G) in paragraph (6)—

20 (i) by inserting “, in collaboration
21 with the National Ocean Mapping, Explo-
22 ration, and Characterization Council estab-
23 lished under section 5 of the National
24 Ocean Exploration Act,” after “forum”;
25 and

1 (ii) by striking the period at the end
2 and inserting “; and”; and

3 (H) by adding at the end the following:

4 “(7) provide guidance, in coordination with the
5 National Ocean Mapping, Exploration, and Charac-
6 terization Council, to Federal and State agencies,
7 Tribal governments, private industry, academia (in-
8 cluding secondary schools, community colleges, and
9 universities), and nongovernmental organizations on
10 data standards, protocols for accepting data, and co-
11 ordination of data collection, compilation, processing,
12 archiving, and dissemination for data relating to
13 ocean exploration and characterization.”.

14 (2) DONATIONS.—Section 12003(b) of such Act
15 (33 U.S.C. 3403(b)) is amended to read as follows:

16 “(b) DONATIONS.—For the purpose of mapping, ex-
17 ploring, and characterizing the oceans or increasing the
18 knowledge of the oceans, the Administrator may—

19 “(1) accept monetary donations and donations
20 of property, data, and equipment; and

21 “(2) pay all necessary expenses in connection
22 with the conveyance or transfer of a gift, devise, or
23 bequest.”.

1 lic on the discoveries made by the program under
2 section 12002; and

3 “(2) to the extent possible, coordinate the ef-
4 forts described in paragraph (1) with the outreach
5 strategies of other domestic or international ocean
6 mapping, exploration, and characterization initia-
7 tives.

8 “(b) EDUCATION AND OUTREACH EFFORTS.—Ef-
9 forts described in subsection (a)(1) may include—

10 “(1) education of the general public, teachers,
11 students, and ocean and coastal resource managers;
12 and

13 “(2) workforce training, reskilling, and opportu-
14 nities to encourage development of ocean related
15 science, technology, engineering, and mathematics
16 (STEM) technical training programs involving sec-
17 ondary schools, community colleges, and universities,
18 including Historically Black Colleges or Universities
19 (within the meaning of the term “part B institution”
20 under section 322 of the Higher Education Act of
21 1965 (20 U.S.C. 1061)), Tribal Colleges or Univer-
22 sities (as defined in section 316(b) of such Act (20
23 U.S.C. 1059c(b))), and other minority-serving insti-
24 tutions (as described in section 371(a) of such Act
25 (20 U.S.C. 1067q(a))).

1 “(c) **OUTREACH STRATEGY.**—Not later than 180
2 days after the date of the enactment of the National
3 Ocean Exploration Act, the Administrator of the National
4 Oceanic and Atmospheric Administration shall develop an
5 outreach strategy to broadly disseminate information on
6 the discoveries made by the program under section
7 12002.”.

8 (2) **CLERICAL AMENDMENT.**—The table of con-
9 tents in section 1(b) of the Omnibus Public Land
10 Management Act of 2009 (Public Law 111–11; 123
11 Stat. 991) is amended by striking the item relating
12 to section 12004 and inserting the following:

“Sec. 12004. Education, workforce training, and outreach.”.

13 (f) **OCEAN EXPLORATION ADVISORY BOARD.**—

14 (1) **ESTABLISHMENT.**—Section 12005(a)(1) of
15 such Act (33 U.S.C. 3505(1)) is amended by insert-
16 ing “and the National Ocean Mapping, Exploration,
17 and Characterization Council established under sec-
18 tion 5 of the National Ocean Exploration Act” after
19 “advise the Administrator”.

20 (2) **TECHNICAL AMENDMENT.**—Section
21 12005(c) of such Act (33 U.S.C. 3505(c)) is amend-
22 ed by inserting “this” before “part”.

23 (g) **AUTHORIZATION OF APPROPRIATIONS.**—Section
24 12006 of such Act (33 U.S.C. 3406) is amended by strik-
25 ing “this part” and all that follows and inserting “this

1 part \$60,000,000 for each of fiscal years 2021 through
2 2030”.

3 (h) DEFINITIONS.—Such Act is further amended by
4 inserting after section 12006 the following:

5 **“SEC. 12007. DEFINITIONS.**

6 “In this part:

7 “(1) CHARACTERIZATION.—The terms ‘charac-
8 terization’, ‘characterize’, and ‘characterizing’ refer
9 to activities that provide comprehensive data and in-
10 terpretations for a specific area of interest of the
11 seafloor, sub-bottom, water column, or hydrologic
12 features, such as water masses and currents, in di-
13 rect support of specific research, environmental pro-
14 tection, resource management, policymaking, or ap-
15 plied mission objectives.

16 “(2) EXPLORATION.—The term ‘exploration’,
17 ‘explore’, and ‘exploring’ refer to activities that pro-
18 vide—

19 “(A) a multidisciplinary view of an un-
20 known or poorly understood area of the
21 seafloor, sub-bottom, or water column; and

22 “(B) an initial assessment of the physical,
23 chemical, geological, biological, archaeological,
24 or other characteristics of such an area.

1 “(3) MAPPING.—The terms ‘map’ and ‘map-
2 ping’ refer to activities that provide comprehensive
3 data and information needed to understand seafloor
4 characteristics, such as depth, topography, bottom
5 type, sediment composition and distribution, under-
6 lying geologic structure, and benthic flora and
7 fauna.”.

8 (i) CLERICAL AMENDMENT.—The table of contents
9 in section 1(b) of the Omnibus Public Land Management
10 Act of 2009 (Public Law 111–11; 123 Stat. 991) is
11 amended by inserting after the item relating to section
12 12006 the following:

 “Sec. 12007. Definitions.”.

13 **SEC. 7. REPEAL.**

14 (a) IN GENERAL.—The NOAA Undersea Research
15 Program Act of 2009 (part II of subtitle A of title XII
16 of Public Law 111–11; 33 U.S.C. 3421 et seq.) is re-
17 pealed.

18 (b) CLERICAL AMENDMENT.—The table of contents
19 in section 1(b) of the Omnibus Public Land Management
20 Act of 2009 (Public Law 111–11; 123 Stat. 991) is
21 amended by striking the items relating to part II of sub-
22 title A of title XII of such Act.

1 **SEC. 8. MODIFICATIONS TO OCEAN AND COASTAL MAPPING**
2 **PROGRAM OF THE NATIONAL OCEANIC AND**
3 **ATMOSPHERIC ADMINISTRATION.**

4 (a) **ESTABLISHMENT OF PROGRAM.**—

5 (1) **IN GENERAL.**—Section 12202(a) of the
6 Ocean and Coastal Mapping Integration Act (33
7 U.S.C. 3501(a)) is amended—

8 (A) by striking “establish a program to de-
9 velop a coordinated and” and inserting “estab-
10 lish and maintain a program to coordinate”;

11 (B) by striking “plan” and inserting “ef-
12 forts”; and

13 (C) by striking “that enhances” and all
14 that follows and inserting “that—

15 “(1) enhances ecosystem approaches in deci-
16 sion-making for natural resource and habitat man-
17 agement restoration and conservation, emergency re-
18 sponse, and coastal resilience and adaptation;

19 “(2) establishes research and mapping prior-
20 ities;

21 “(3) supports the siting of research and other
22 platforms; and

23 “(4) advances ocean and coastal science.”.

24 (2) **MEMBERSHIP.**—Section 12202 of such Act
25 (33 U.S.C. 3501) is amended by striking subsection

1 (b) and redesignating subsection (c) as subsection
2 (b).

3 (3) PROGRAM PARAMETERS.—Subsection (b) of
4 section 12202 of such Act (33 U.S.C. 3501), as re-
5 designated by paragraph (2), is amended—

6 (A) in the matter preceding paragraph (1),
7 by striking “developing” and inserting “main-
8 taining”;

9 (B) in paragraph (2), by inserting “and
10 for leveraging existing Federal geospatial serv-
11 ices capacities and contract vehicles for effi-
12 ciencies” after “coastal mapping”;

13 (C) in paragraph (7), by striking “with
14 coastal state and local government programs”
15 and inserting “with mapping programs, in con-
16 junction with Federal and State agencies, Trib-
17 al governments, private industry, academia, and
18 nongovernmental organizations”;

19 (D) in paragraph (8), by striking “of real-
20 time tide data and the development” and insert-
21 ing “of tide data and water-level data and the
22 development and dissemination”;

23 (E) in paragraph (9), by striking “; and”
24 and inserting a semicolon;

1 (F) in paragraph (10), by striking the pe-
2 riod at the end and inserting “; and”; and

3 (G) by adding at the end the following:

4 “(11) support—

5 “(A) the Ocean Science and Technology
6 Subcommittee of the Ocean Policy Committee
7 established under section 8932(e) of title 10,
8 United States Code; and

9 “(B) the National Ocean Mapping, Explo-
10 ration, and Characterization Council established
11 under section 5 of the National Ocean Explo-
12 ration Act.”.

13 (b) INTERAGENCY WORKING GROUP ON OCEAN AND
14 COASTAL MAPPING.—

15 (1) NAME CHANGE.—The Ocean and Coastal
16 Mapping Integration Act (33 U.S.C. 3501 et seq.) is
17 amended—

18 (A) in section 12202 (33 U.S.C. 3501)—

19 (i) in subsection (a), by striking
20 “Interagency Committee on Ocean and
21 Coastal Mapping” and inserting “Inter-
22 agency Working Group on Ocean and
23 Coastal Mapping under section 12203”;
24 and

1 (ii) in subsection (b), as redesignated
2 by subsection (a)(2), by striking “Com-
3 mittee” and inserting “Working Group”;

4 (B) in section 12203 (33 U.S.C. 3502)—

5 (i) in the section heading, by striking
6 “**COMMITTEE**” and inserting “**WORKING**
7 **GROUP**”;

8 (ii) in subsection (b), in the first sen-
9 tence, by striking “committee” and insert-
10 ing “Working Group”;

11 (iii) in subsection (e), by striking
12 “committee” and inserting “Working
13 Group”; and

14 (iv) in subsection (f), by striking
15 “committee” and inserting “Working
16 Group”; and

17 (C) in section 12208 (33 U.S.C. 3507), by
18 amending paragraph (3) to read as follows:

19 “(3) **WORKING GROUP**.—The term ‘Working
20 Group’ means the Interagency Working Group on
21 Ocean and Coastal Mapping under section 12203.”.

22 (2) **IN GENERAL**.—Section 12203(a) of such
23 Act (33 U.S.C. 3502(a)) is amended by striking
24 “within 30 days” and all that follows and inserting
25 “not later than 30 days after the date of the enact-

1 ment of the National Ocean Exploration Act, shall
2 use the Interagency Working Group on Ocean and
3 Coastal Mapping in existence as of the date of the
4 enactment of such Act to implement section
5 12202.”.

6 (3) MEMBERSHIP.—Section 12203(b) of such
7 Act (33 U.S.C. 3502(b)) is amended—

8 (A) in the first sentence, by striking “sen-
9 ior” both places it appears and inserting “sen-
10 ior-level”;

11 (B) in the third sentence, by striking “the
12 Minerals Management Service” and inserting
13 “the Bureau of Ocean Energy Management of
14 the Department of the Interior, the Office of
15 the Assistant Secretary, Fish and Wildlife and
16 Parks of the Department of the Interior”; and

17 (C) by striking the second sentence.

18 (4) CO-CHAIRS.—Section 12203(c) of such Act
19 (33 U.S.C. 3502(c)) is amended to read as follows:

20 “(c) CO-CHAIRS.—The Working Group shall be co-
21 chaired by one representative from each of the following:

22 “(1) The National Oceanic and Atmospheric
23 Administration.

24 “(2) The Department of the Interior.

1 “(3) The United States Army Corps of Engi-
2 neers.”.

3 (5) SUBORDINATE GROUPS.—Section 12203(d)
4 of such Act (33 U.S.C. 3502(d)) is amended to read
5 as follows:

6 “(d) SUBORDINATE GROUPS.—The co-chairs may es-
7 tablish such permanent or temporary subordinate groups
8 as determined appropriate by the Working Group.”.

9 (6) MEETINGS.—Section 12203(e) of such Act
10 (33 U.S.C. 3502(e)) is amended by striking “each
11 subcommittee and each working group” and insert-
12 ing “each subordinate group”.

13 (7) COORDINATION.—Section 12203(f) of such
14 Act (33 U.S.C. 3502(f)) is amended by striking
15 paragraphs (1) through (5) and inserting the fol-
16 lowing:

17 “(1) other Federal efforts, such as the Digital
18 Coast, the Federal Geographic Data Committee,
19 GeoPlatform, the Integrated Ocean Observing Sys-
20 tem, the Hydrographic Services Review Panel of the
21 National Oceanic and Atmospheric Administration,
22 the Ocean Exploration Advisory Board of the Na-
23 tional Oceanic and Atmospheric Administration, the
24 National Geospatial Advisory Committee of the De-
25 partment of the Interior, the advisory committee for

1 the National Integrated Coastal and Ocean Observa-
2 tion System, and the Technical Mapping Advisory
3 Council of the Federal Emergency Management
4 Agency;

5 “(2) international mapping activities;

6 “(3) coastal states;

7 “(4) coastal Indian Tribes;

8 “(5) data acquisition and user groups through
9 workshops, partnerships, and other appropriate
10 mechanisms; and

11 “(6) representatives of nongovernmental enti-
12 ties.”.

13 (8) ADVISORY PANEL.—Section 12203 of such
14 Act (33 U.S.C. 3502) is amended by striking sub-
15 section (g).

16 (9) FUNCTIONS.—Section 12203 of such Act
17 (33 U.S.C. 3502), as amended by paragraph (8), is
18 further amended by adding at the end the following:

19 “(g) SUPPORT FUNCTIONS.—The Working Group
20 shall support the National Ocean Mapping, Exploration,
21 and Characterization Council established under section 5
22 of the National Ocean Exploration Act and the Ocean
23 Science and Technology Subcommittee of the Ocean Policy
24 Committee established under section 8932(c) of title 10,
25 United States Code, on ocean mapping activities and asso-

1 ciated technology development across the Federal Govern-
2 ment, State governments, coastal Indian Tribes, private
3 industry, nongovernmental organizations, and academia.”.

4 (10) CLERICAL AMENDMENT.—The table of
5 contents in section 1(b) of the Omnibus Public Land
6 Management Act of 2009 (Public Law 111–11; 123
7 Stat. 991) is amended by striking the item relating
8 to section 12203 and inserting the following:

“Sec. 12203. Interagency working group on ocean and coastal mapping.”.

9 (c) BIENNIAL REPORTS.—Section 12204 of the
10 Ocean and Coastal Mapping Integration Act (33 U.S.C.
11 3503) is amended—

12 (1) in the matter preceding paragraph (1), by
13 striking “No later” and all that follows through
14 “House of Representatives” and inserting “Not later
15 than 18 months after the date of the enactment of
16 the National Ocean Exploration Act, and biennially
17 thereafter until 2040, the co-chairs of the Working
18 Group, in coordination with the National Ocean
19 Mapping, Exploration, and Characterization Council
20 established under section 5 of such Act, shall submit
21 to the Committee on Commerce, Science, and Trans-
22 portation and the Committee on Energy and Natural
23 Resources of the Senate, and the Committee on Nat-
24 ural Resources and the Committee on Science,

1 Space, and Technology of the House of Representa-
2 tives,”;

3 (2) in paragraph (1), by inserting “, including
4 the data maintained by the National Centers for En-
5 vironmental Information of the National Oceanic
6 and Atmospheric Administration,” after “mapping
7 data”;

8 (3) in paragraph (3), by inserting “, including
9 a plan to map the coasts of the United States on a
10 requirements-based cycle, with mapping agencies
11 and partners coordinating on a unified approach
12 that factors in recent related studies, meets multiple
13 user requirements, and identifies gaps” after “ac-
14 complished”;

15 (4) by striking paragraph (10) and redesign-
16 ating paragraphs (11), (12), and (13) as para-
17 graphs (10), (11), and (12), respectively;

18 (5) in paragraph (10), as so redesignated, by
19 striking “with coastal state and local government
20 programs” and inserting “with international, coastal
21 state, and local government and nongovernmental
22 mapping programs”;

23 (6) in paragraph (11), as redesignated by para-
24 graph (4)—

1 (A) by striking “increase” and inserting
2 “streamline and expand”;

3 (B) by inserting “for the purpose of ful-
4 filling Federal mapping and charting respon-
5 sibilities, plans, and strategies” after “entities”;
6 and

7 (C) by striking “; and” and inserting a
8 semicolon;

9 (7) in paragraph (12), as redesignated by para-
10 graph (4), by striking the period at the end and in-
11 serting a semicolon; and

12 (8) by adding at the end the following:

13 “(13) a progress report on the development of
14 new and innovative technologies and applications
15 through research and development, including cooper-
16 ative or other agreements with joint or cooperative
17 research institutes and centers and other nongovern-
18 mental entities;

19 “(14) a description of best practices in data
20 processing and distribution and leveraging opportu-
21 nities among agencies represented on the Working
22 Group and with coastal states, coastal Indian Tribes,
23 and nongovernmental entities;

24 “(15) an identification of any training, tech-
25 nology, or other requirements for enabling Federal

1 mapping programs, vessels, and aircraft to support
2 a coordinated ocean and coastal mapping program;
3 and

4 “(16) a timetable for implementation and com-
5 pletion of the plan described in paragraph (3), in-
6 cluding recommendations for integrating new ap-
7 proaches into the program.”.

8 (d) NOAA JOINT OCEAN AND COASTAL MAPPING
9 CENTERS.—

10 (1) CENTERS.—Section 12205(c) of such Act
11 (33 U.S.C. 3504(c)) is amended—

12 (A) in the matter preceding paragraph (1),
13 by striking “3” and inserting “three”; and

14 (B) in paragraph (4), by inserting “and
15 uncrewed” after “sensing”.

16 (2) PLAN.—Section 12205 of such Act (33
17 U.S.C. 3504) is amended—

18 (A) in the section heading, by striking
19 “PLAN” and inserting “NOAA JOINT OCEAN
20 AND COASTAL MAPPING CENTERS”;

21 (B) by striking subsections (a), (b), and
22 (d); and

23 (C) in subsection (c), by striking “(c)
24 NOAA JOINT OCEAN AND COASTAL MAPPING
25 CENTERS.—”.

1 (3) CLERICAL AMENDMENT.—The table of con-
2 tents in section 1(b) of the Omnibus Public Land
3 Management Act of 2009 (Public Law 111–11; 123
4 Stat. 991) is amended by striking the item relating
5 to section 12205 and inserting the following:

“Sec. 12205. NOAA joint ocean and coastal mapping centers.”.

6 (e) OCEAN AND COASTAL MAPPING FEDERAL FUND-
7 ING OPPORTUNITY.—The Ocean and Coastal Mapping In-
8 tegration Act (33. U.S.C. 3501 et seq.) is amended—

9 (1) by redesignating sections 12206, 12207,
10 and 12208 as sections 12208, 12209, and 12210,
11 respectively; and

12 (2) by inserting after section 12205 the fol-
13 lowing:

14 **“SEC. 12206. OCEAN AND COASTAL MAPPING FEDERAL**
15 **FUNDING OPPORTUNITY.**

16 “(a) IN GENERAL.—Not later than one year after the
17 date of the enactment of the National Ocean Exploration
18 Act, the Administrator shall develop an integrated ocean
19 and coastal mapping Federal funding match opportunity
20 within the National Oceanic and Atmospheric Administra-
21 tion with Federal, State, Tribal, local, nonprofit, private
22 industry, or academic partners in order to increase the co-
23 ordinated acquisition, processing, stewardship, and archi-
24 val of new ocean and coastal mapping data in United
25 States waters.

1 “(b) RULES.—The Administrator shall develop ad-
2 ministrative and procedural rules for the ocean and coastal
3 mapping Federal funding match opportunity developed
4 under subsection (a), to include—

5 “(1) specific and detailed criteria that must be
6 addressed by an applicant, such as geographic over-
7 lap with pre-established priorities, number and type
8 of project partners, benefit to the applicant, coordi-
9 nation with other funding opportunities, and benefit
10 to the public;

11 “(2) determination of the appropriate funding
12 match amounts and mechanisms to use, such as
13 grants, agreements, or contracts; and

14 “(3) other funding award criteria as are nec-
15 essary or appropriate to ensure that evaluations of
16 proposals and decisions to award funding under this
17 section are based on objective standards applied fair-
18 ly and equitably to those proposals.

19 “(c) GEOSPATIAL SERVICES AND CONTRACT VEHI-
20 CLES.—The ocean and coastal mapping Federal funding
21 match opportunity developed under subsection (a) shall le-
22 verage Federal expertise and capacities for geospatial
23 services and Federal geospatial contract vehicles using the
24 private sector for acquisition efficiencies.

1 **“SEC. 12207. COOPERATIVE AGREEMENTS, CONTRACTS,**
2 **AND GRANTS.**

3 “(a) **IN GENERAL.**—To carry out interagency activi-
4 ties under this subtitle, the heads of agencies represented
5 on the Working Group may enter into cooperative agree-
6 ments, or any other agreement with each other, and trans-
7 fer, receive, and expend funds made available by any Fed-
8 eral agency, any State or subdivision thereof, or any public
9 or private organization or individual, for ocean and coastal
10 mapping investigations, surveys, studies, and other
11 geospatial collaborations authorized by this subtitle or
12 agreements authorized by section 5 of the Act entitled ‘An
13 Act to define the functions and duties of the Coast and
14 Geodetic Survey, and for other purposes’, approved Au-
15 gust 6, 1947 (33 U.S.C. 883e).

16 “(b) **GRANTS.**—The Administrator may make grants
17 to any State or subdivision thereof or any public or private
18 organization or individual to carry out the purposes of this
19 subtitle.”.

20 (f) **AUTHORIZATION OF APPROPRIATIONS.**—Section
21 12209 of such Act, as redesignated by subsection (e)(1),
22 is amended—

23 (1) in subsection (a), by striking “this subtitle”
24 and all that follows and inserting “this subtitle
25 \$45,000,000 for each of fiscal years 2021 through
26 2030.”;

1 (2) in subsection (b), by striking “this subtitle”
2 and all that follows and inserting “this subtitle
3 \$15,000,000 for each of fiscal years 2021 through
4 2030.”;

5 (3) by striking subsection (c); and

6 (4) by inserting after subsection (b) the fol-
7 lowing:

8 “(c) OCEAN AND COASTAL MAPPING FEDERAL
9 FUNDING OPPORTUNITY.—Of amounts appropriated pur-
10 suant to subsection (a), \$20,000,000 is authorized to
11 carry out section 12206.”.

12 (g) DEFINITIONS.—

13 (1) OCEAN AND COASTAL MAPPING.—Para-
14 graph (5) of section 12210 of such Act, as redesign-
15 ated by subsection (e)(1), is amended by striking
16 “processing, and management” and inserting “proc-
17 essing, management, maintenance, interpretation,
18 certification, and dissemination”.

19 (2) COASTAL INDIAN TRIBE.—Section 12210 of
20 such Act, as redesignated by subsection (e)(1), is
21 amended by adding at the end the following:

22 “(9) COASTAL INDIAN TRIBE.—The term
23 ‘coastal Indian Tribe’ means an ‘Indian tribe’, as de-
24 fined in section 4 of the Indian Self-Determination

1 and Education Assistance Act (25 U.S.C. 5304), the
2 land of which is located in a coastal state.”.

3 (h) CLERICAL AMENDMENTS.—The table of contents
4 in section 1(b) of the Omnibus Public Land Management
5 Act of 2009 (Public Law 111–11; 123 Stat. 991) is
6 amended by striking the items relating to sections 12206
7 through 12208 and inserting the following:

“Sec. 12206. Ocean and coastal mapping Federal funding opportunity.

“Sec. 12207. Cooperative agreements, contracts, and grants.

“Sec. 12208. Effect on other laws.

“Sec. 12209. Authorization of appropriations.

“Sec. 12210. Definitions.”.

8 **SEC. 9. MODIFICATIONS TO HYDROGRAPHIC SERVICES IM-**
9 **PROVEMENT ACT OF 1998.**

10 (a) DEFINITIONS.—Section 302(4)(A) of the Hydro-
11 graphic Services Improvement Act of 1998 (33 U.S.C.
12 892(4)(A)) is amended by inserting “hydrodynamic fore-
13 cast and datum transformation models,” after “nautical
14 information databases,”.

15 (b) FUNCTIONS OF THE ADMINISTRATOR.—Section
16 303(b) of such Act (33 U.S.C. 892a(b)) is amended—

17 (1) in the matter preceding paragraph (1), by
18 inserting “precision navigation,” after “promote”;
19 and

20 (2) in paragraph (2)—

21 (A) by inserting “and hydrodynamic fore-
22 cast models” after “monitoring systems”;

1 (B) by inserting “and provide foundational
2 information and services required to support
3 coastal resilience planning for coastal transpor-
4 tation and other infrastructure, coastal protec-
5 tion and restoration projects, and related activi-
6 ties” after “efficiency”; and

7 (C) by striking “; and” and inserting a
8 semicolon.

9 (c) QUALITY ASSURANCE PROGRAM.—Section 304(a)
10 of such Act (33 U.S.C. 892b(a)) is amended by striking
11 “product produced” and inserting “product or service pro-
12 duced or disseminated”.

13 (d) AUTHORIZATION OF APPROPRIATIONS.—Section
14 306(a) of such Act (33 U.S.C. 892d(a)) is amended—

15 (1) in paragraph (1), by striking “\$70,814,000
16 for each of fiscal years 2019 through 2023” and in-
17 serting “\$71,000,000 for each of fiscal years 2021
18 through 2030”;

19 (2) in paragraph (2), by striking “\$25,000,000
20 for each of fiscal years 2019 through 2023” and in-
21 serting “\$34,000,000 for each of fiscal years 2021
22 through 2030”;

23 (3) in paragraph (3), by striking “\$29,932,000
24 for each of fiscal years 2019 through 2023” and in-

1 serting “\$38,000,000 for each of fiscal years 2021
2 through 2030”;

3 (4) in paragraph (4), by striking “\$26,800,000
4 for each of fiscal years 2019 through 2023” and in-
5 serting “\$45,000,000 for each of fiscal years 2021
6 through 2030”; and

7 (5) in paragraph (5), by striking “\$30,564,000
8 for each of fiscal years 2019 through 2023” and in-
9 serting “\$35,000,000 for each of fiscal years 2021
10 through 2030”.