

Calendar No. 573

111TH CONGRESS
2^D SESSION**S. 1252****[Report No. 111–296]**

To promote ocean and human health and for other purposes.

IN THE SENATE OF THE UNITED STATES

JUNE 11, 2009

Mr. ROCKEFELLER (for himself, Mr. INOUE, and Ms. CANTWELL) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

SEPTEMBER 20, 2010

Reported by Mr. ROCKEFELLER, with an amendment

[Strike all after the enacting clause and insert the part printed in *italic*]**A BILL**

To promote ocean and human health 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,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Oceans and Human
 5 Health Reauthorization Act of 2009”.

1 **SEC. 2. INTERAGENCY OCEANS AND HUMAN HEALTH RE-**
 2 **SEARCH PROGRAM.**

3 (a) **COORDINATION.**—Subsection (a) of section 902
 4 of the Oceans and Human Health Act (33 U.S.C. 3101)
 5 is amended by striking “in human health.” and inserting
 6 “, coasts, and Great Lakes in human health and deliver
 7 information, products, and services to assist the Nation
 8 in reducing public health risks, including those related to
 9 climate change, and enhancing health benefits from the
 10 ocean.”.

11 (b) **IMPLEMENTATION PLAN.**—Subsection (b) of sec-
 12 tion 902 of the Oceans and Human Health Act (33 U.S.C.
 13 3101) is amended—

14 (1) by amending the matter preceding para-
 15 graph (1) to read as follows:

16 “(b) **IMPLEMENTATION PLAN.**—Not later than 5
 17 years after the date of the enactment of the Oceans and
 18 Human Health Reauthorization Act of 2009, an Inter-
 19 agency Oceans and Human Health Task Force or working
 20 group established by the National Science and Technology
 21 Council, through the Director of the Office of Science and
 22 Technology Policy, shall revise and update the 2007
 23 ‘Interagency Oceans and Human Health Research Imple-
 24 mentation Plan’ and submit to the Congress the updated
 25 Plan. Nothing in this subsection is intended to duplicate
 26 or supersede the activities of the Inter-Agency Task Force

1 on Harmful Algal Blooms and Hypoxia established under
 2 section 603 of the Harmful Algal Bloom and Hypoxia Re-
 3 search and Control Act of 1998 (Public Law 105-383; 16
 4 U.S.C. 1451 note). The updated plan shall—”,

5 (2) in paragraph (1)—

6 (A) by inserting “, surveillance, and fore-
 7 casting” after “prediction”;

8 (B) by inserting “, including problems re-
 9 lated to climate change,” after “health prob-
 10 lems”;

11 (C) by inserting “and chemical” after “bio-
 12 logical”; and

13 (D) by inserting “products for the preven-
 14 tion and” after “new”;

15 (3) in paragraph (2), by striking “and partici-
 16 pation,” and all that follows through the end and in-
 17 serting “participation in national and international
 18 research and outreach efforts, and outreach to the
 19 medical community and the public,”;

20 (4) in paragraph (3), by inserting “, including
 21 joint efforts,” after “departments”;

22 (5) in paragraph (4), by striking “preventive”
 23 and inserting “preventing”;

24 (6) in paragraph (5), by inserting “Resources”
 25 after “the Ocean”;

1 (7) in paragraph (6), by striking “and” at the
2 end;

3 (8) by amending paragraph (7) to read as fol-
4 lows:

5 “(7) estimate funding needed for research, sur-
6 veillance, education, and outreach activities to be
7 conducted within or supported by Federal agencies
8 and departments under the program.”; and

9 (9) by at the end the following:

10 “(8) build on, and complement, the research,
11 surveillance, and outreach activities of the National
12 Oceanic and Atmospheric Administration, the Na-
13 tional Science Foundation, the National Institutes of
14 Health, the Centers for Disease Control and Preven-
15 tion, the National Institute of Environmental Health
16 Sciences, and other departments and agencies.”.

17 (c) PROGRAM SCOPE.—Subsection (c) of section 902
18 of the Oceans and Human Health Act (33 U.S.C. 3101)
19 is amended—

20 (1) by amending paragraph (1) to read as fol-
21 lows:

22 “(1) Interdisciplinary research among the
23 ocean, atmospheric, and medical sciences, and co-
24 ordinated research and activities to improve under-
25 standing of processes within the ocean that may af-

1 fect human and marine animal health and to explore
2 the potential contribution of marine organisms to
3 medicine and research, including—

4 “(A) vector-, water-, and food-borne dis-
5 eases of humans and marine organisms, includ-
6 ing marine mammals, corals, and fish;

7 “(B) health effects for both humans and
8 marine animals associated with harmful algal
9 blooms and hypoxia (in collaboration with the
10 Inter-Agency Task Force on Harmful Algal
11 Blooms and Hypoxia);

12 “(C) health effects for humans and marine
13 organisms associated with climate change im-
14 pacts in ocean, coastal, and Great Lakes wa-
15 ters;

16 “(D) marine-derived pharmaceuticals and
17 other natural products;

18 “(E) marine organisms and habitats as
19 models for biomedical research and as indica-
20 tors of human health and well being and marine
21 environmental health;

22 “(F) marine environmental microbiology;

23 “(G) legacy and emerging chemicals of
24 concern, including bioaccumulative and endo-
25 crine-disrupting chemical contaminants;

1 “(H) predictive models based on indicators
2 of marine environmental health or public health
3 threats; and

4 “(I) social, economic, and behavioral stud-
5 ies of relationships between the condition of
6 oceans, coasts, and Great Lakes and human
7 health and well-being.”;

8 (2) by amending paragraph (2) to read as fol-
9 lows:

10 “(2) Coordination with any appropriate inter-
11 agency working group of the Joint Subcommittee on
12 Ocean Science and Technology, or its successor
13 body, through the National Science and Technology
14 Council, to ensure that any integrated ocean and
15 coastal observing system provides information nec-
16 essary to monitor and reduce marine public health
17 problems, including climate change information,
18 health-related data on biological populations, and de-
19 tection of toxins and contaminants in marine waters
20 and seafood.”; and

21 (3) in paragraph (3)—

22 (A) in subparagraph (A), by striking
23 “genomics and proteomics” and inserting
24 “genomics, proteomics, metabolomics, and other
25 related sciences”;

1 (B) by amending subparagraph (C) to read
2 as follows:

3 “(C) in situ, laboratory, and remote sen-
4 sors—

5 “(i) to detect, quantify, and predict
6 the presence, distribution, concentration,
7 toxicity, or virulence of infectious microbes,
8 harmful algae, toxins, and chemical con-
9 taminants in ocean, coastal, and Great
10 Lakes waters, sediments, organisms, and
11 seafood; and

12 “(ii) to identify new genetic resources
13 for biomedical purposes;” and

14 (C) in subparagraph (E), by striking
15 “equipment and technologies” and inserting
16 “equipment, technologies, and methodologies”.

17 (d) BIENNIAL REPORT.—Subsection (d) of section
18 902 of the Oceans and Human Health Act (33 U.S.C.
19 3101) is amended—

20 (1) in the heading, by striking “ANNUAL” and
21 inserting “BIENNIAL”;

22 (2) in the material preceding paragraph (1)—

23 (A) by striking “24 months after the date
24 of enactment of this Act” and inserting “12
25 months after the date of the enactment of the

1 Oceans and Human Health Reauthorization Act
2 of 2009”;

3 (B) by striking “each year an annual” and
4 inserting “alternate years a biennial”; and

5 (C) by striking “year,” and inserting
6 “years,”;

7 (3) in paragraph (1), by striking “year,” and
8 inserting “years,”;

9 (4) in paragraph (4), by striking “that pre-
10 ceeding fiscal year,” and inserting “the preceding two
11 fiscal years,” and

12 (5) in paragraph (5), by inserting “, funding
13 needs,” after “action”.

14 **SEC. 3. NATIONAL OCEANIC AND ATMOSPHERIC ADMINIS-**
15 **TRATION OCEANS AND HUMAN HEALTH INI-**
16 **TIATIVE.**

17 (a) ESTABLISHMENT.—Subsection (a) of section 903
18 of the Oceans and Human Health Act (33 U.S.C. 3102)
19 is amended—

20 (1) in the matter preceding paragraph (1), by
21 striking the second sentence, and inserting “In ear-
22 rying out this section, the Secretary shall consult
23 with other Federal agencies and departments con-
24 ducting integrated oceans and human health re-
25 search and disease surveillance activities and re-

1 search in related areas, including the National
 2 Science Foundation, the National Institutes of
 3 Health, the Centers for Disease Control and Preven-
 4 tion, the National Institute of Environmental Health
 5 Sciences, and other agencies and departments.”; and

6 (2) in paragraph (2), by inserting “external”
 7 after “an”.

8 (b) ADVISORY PANEL.—Subsection (b) of section 903
 9 of the Oceans and Human Health Act (33 U.S.C. 3102)
 10 is amended—

11 (1) by striking “is authorized to” and inserting
 12 “shall”; and

13 (2) by striking “sciences.” and inserting
 14 “sciences, including public health practitioners.”.

15 (c) NATIONAL CENTERS.—Subsection (c) of section
 16 903 of the Oceans and Human Health Act (33 U.S.C.
 17 3102) is amended—

18 (1) in paragraph (1), by striking “for”; and

19 (2) by amending paragraph (2) to read as fol-
 20 lows:

21 “(2) The centers shall focus on—

22 “(A) areas related to agency missions, in-
 23 cluding use of marine organisms and habitats
 24 as indicators for marine environmental health,
 25 impacts of climate change on ocean health

threats, ocean pollutants, marine toxins and pathogens, harmful algal blooms, hypoxia, sea-food safety and quality, identification of potential marine products, and biology and pathobiology of marine mammals, corals, and other marine organisms; and

“(B) supporting disciplines including marine genomics, marine environmental microbiology, ecological chemistry, and conservation medicine.”.

(d) EXTRAMURAL RESEARCH GRANTS.—Subsection (d) of section 903 of the Oceans and Human Health Act (33 U.S.C. 3102) is amended by adding at the end the following:

“(3) Grants under this subsection shall support research to improve understanding of processes within the ocean that may affect human and marine animal health and to explore the potential contribution of marine organisms to medicine and research, including—

“(A) vector-, water-, and food-borne diseases of humans and marine organisms, including marine mammals, corals, and fish;

“(B) health effects for humans and marine organisms associated with climate change im-

1 pacts in ocean, coastal, and Great Lakes wa-
 2 ters;

3 “~~(C)~~ marine-derived pharmaceuticals and
 4 other natural products;

5 “~~(D)~~ marine organisms and habitats as
 6 models for biomedical research and as indica-
 7 tors of human health and well being and marine
 8 environmental health;

9 “~~(E)~~ marine environmental microbiology;

10 “~~(F)~~ legacy and emerging chemicals of
 11 concern, including bioaccumulative and endo-
 12 crine-disrupting chemical contaminants;

13 “~~(G)~~ predictive models based on indicators
 14 of marine environmental health or public health
 15 threats;

16 “~~(H)~~ cataloging and interpreting microbes
 17 and understanding microbial functions in eco-
 18 systems and impacts on human and marine
 19 health; and

20 “~~(I)~~ social, economic, and behavioral stud-
 21 ies of relationships between the condition of
 22 oceans, coasts, and Great Lakes, and human
 23 health and well-being.”.

24 (c) DISTINGUISHED SCHOLARS; COOPERATIVE
 25 AGREEMENTS.—Section 903 of the Oceans and Human

1 Health Act (33 U.S.C. 3102) is amended by adding at
 2 the end the following:

3 “(f) DISTINGUISHED SCHOLARS.—The Secretary of
 4 Commerce is authorized to establish a competitive pro-
 5 gram to recognize highly distinguished external scientists
 6 in any area of oceans and human health research and to
 7 involve those scientists in collaborative work with the
 8 Oceans and Human Health Initiative of the National Oce-
 9 anic and Atmospheric Administration.

10 “(g) COOPERATIVE AGREEMENTS.—The Secretary of
 11 Commerce may execute and perform such contracts,
 12 leases, grants, or cooperative agreements as may be nec-
 13 essary to carry out this section.”.

14 **SEC. 4. PUBLIC INFORMATION AND OUTREACH.**

15 (a) IN GENERAL.—Subsection (a) of section 904 of
 16 the Oceans and Human Health Act (33 U.S.C. 3103) is
 17 amended by striking “program,” and inserting “and insti-
 18 tutions of higher education,”.

19 (b) REPORT.—Subsection (b) of section 904 of the
 20 Oceans and Human Health Act (33 U.S.C. 3103) is
 21 amended to read as follows:

22 “(b) REPORT.—

23 “(1) REQUIREMENT.—The Secretary of Com-
 24 merce shall submit to Congress a biennial report re-
 25 viewing the results of the research, assessments, and

findings developed under the Oceans and Human Health Initiative of the National Oceanic and Atmospheric Administration. Each such report shall—

“(A) describe the projects, products, and programs funded under the Initiative;

“(B) describe the work of the Advisory Committee and the manner in which the program is meeting development and implementation recommendations for the program; and

“(C) include recommendations for improving or expanding the program.

“(2) COMBINED REPORTS.—Each report required by paragraph (1) may be combined with the National Ocean and Atmospheric Administration’s input to the biennial interagency report required by section 902(d).”.

SEC. 5. AUTHORIZATION OF APPROPRIATIONS.

Subsection (a) of section 905 of the Oceans and Human Health Act (33 U.S.C. 3104) is amended—

(1) by striking “2005 through 2008” and inserting “2010 through 2014”; and

(2) by inserting “, distinguished scholar,” after “grant”.

1 **SECTION 1. SHORT TITLE; AMENDMENT OF OCEANS AND**
 2 **HUMAN HEALTH ACT.**

3 (a) *SHORT TITLE.*—*This Act may be cited as the*
 4 *“Oceans and Human Health Reauthorization Act of 2010”.*

5 (b) *AMENDMENT OF OCEANS AND HUMAN HEALTH*
 6 *ACT.*—

7 *Except as otherwise expressly provided, whenever in*
 8 *this Act an amendment or repeal is expressed in terms of*
 9 *an amendment to, or repeal of, a section or other provision,*
 10 *the reference shall be considered to be made to a section or*
 11 *other provision of the Oceans and Human Health Act (33*
 12 *U.S.C. 3101 et seq.).*

13 **SEC. 2. INTERAGENCY OCEANS AND HUMAN HEALTH RE-**
 14 **SEARCH PROGRAM.**

15 (a) *COORDINATION.*—*Section 902(a) (33 U.S.C.*
 16 *3101(a)) is amended by striking “oceans in human health.”*
 17 *and inserting “oceans, coasts, and Great Lakes in human*
 18 *health and deliver information, products, and services to*
 19 *assist the Nation in reducing public health risks, and en-*
 20 *hancing health benefits, from the ocean.”.*

21 (b) *IMPLEMENTATION PLAN.*—*Section 902(b) (33*
 22 *U.S.C. 3101(b)) is amended—*

23 (1) *by striking the matter preceding paragraph*
 24 *(1) and inserting the following:*

25 “(b) *IMPLEMENTATION PLAN.*—*Within 2 years after*
 26 *the date of the enactment of the Oceans and Human Health*

1 *Reauthorization Act of 2010, and every 5 years thereafter,*
 2 *the National Science and Technology Council, through the*
 3 *Director of the Office of Science and Technology Policy,*
 4 *shall revise and update the 2007 ‘Interagency Oceans and*
 5 *Human Health Research Implementation Plan’ and submit*
 6 *the updated plan to the Congress. The updated Plan shall*
 7 *define the roles of Federal agencies and departments in*
 8 *order to avoid duplication of activities and coordinate ef-*
 9 *forts in support of the research program. Nothing in this*
 10 *subsection is intended to duplicate or supersede the activi-*
 11 *ties of the Inter-Agency Task Force on Harmful Algal*
 12 *Blooms and Hypoxia established under section 603 of the*
 13 *Harmful Algal Bloom and Hypoxia Research and Control*
 14 *Act of 1998 (16 U.S.C. 1451 note). The updated Plan shall*
 15 *build on and complement the ongoing research, surveillance,*
 16 *and outreach activities of the National Oceanic and Atmos-*
 17 *pheric Administration, the National Science Foundation,*
 18 *the National Institutes of Health (including the National*
 19 *Institute of Environmental Health Sciences), the Centers*
 20 *for Disease Control and Prevention, the U.S. Environ-*
 21 *mental Protection Agency, and other Federal departments*
 22 *and agencies, and shall—”;*
 23 (2) *in paragraph (1)—*

1 (A) by striking “prediction” and inserting
 2 “prediction, surveillance, forecasting, and miti-
 3 gation”;

4 (B) by inserting “and chemical” after “bio-
 5 logical”; and

6 (C) by striking “treatments” and inserting
 7 “products for the prevention and treatment”;

8 (3) by striking “training” and all that follows in
 9 paragraph (2) and inserting “Federal research cen-
 10 ters, training, and support for scientists, and partici-
 11 pation in national and international research and
 12 outreach efforts, including outreach to the medical
 13 community and the public;”;

14 (4) by striking “preventive” in paragraph (4)
 15 and inserting “preventing”;

16 (5) by inserting “Resources” in paragraph (5)
 17 after “the Ocean” ; and

18 (6) by striking paragraph (7) and inserting the
 19 following:

20 “(7) estimate funding needed for research, sur-
 21 veillance, education, and outreach activities to be con-
 22 ducted within and supported by Federal agencies
 23 under the program.”.

24 (c) *PROGRAM SCOPE*.—Section 902(c) (33 U.S.C.
 25 3101(c)) is amended—

(1) by striking paragraphs (1) and (2) and inserting the following:

“(1) *Interdisciplinary research among the ocean, atmospheric, and medical sciences, and coordinated research and activities to improve understanding of processes within the ocean that may affect human health and to explore the potential contribution of marine organisms to medicine and research, including—*

“(A) *vector-, water-, and food-borne diseases of humans and marine organisms, including marine mammals, corals, fish, and shellfish;*

“(B) *human health effects associated with harmful algal blooms and hypoxia (in collaboration with the Inter-Agency Task Force on Harmful Algal Blooms and Hypoxia);*

“(C) *marine-derived pharmaceuticals and other natural products;*

“(D) *marine organisms and habitats as models for biomedical research and as indicators of human health and well being and marine environmental health;*

“(E) *marine environmental microbiology linked to human health;*

1 “(F) human health effects associated with
 2 legacy and emerging chemicals of concern, in-
 3 cluding bioaccumulative and endocrine-dis-
 4 rupting chemical contaminants;

5 “(G) predictive models based on indicators
 6 of marine environmental health or public health
 7 threats; and

8 “(H) social, economic, and behavioral stud-
 9 ies of relationships between the condition of
 10 oceans, coasts, and the Great Lakes and human
 11 health and well-being.

12 “(2) Coordination with appropriate interagency
 13 working groups of the Joint Subcommittee on Ocean
 14 Science and Technology, or its successor body, through
 15 the National Science and Technology Council, to en-
 16 sure that any integrated ocean and coastal observing
 17 system provides information necessary to monitor and
 18 reduce marine public health problems, including cli-
 19 mate change information, health-related data on bio-
 20 logical populations, and detection of toxins and con-
 21 taminants in marine waters and seafood.”; and

22 (2) in paragraph (3)—

23 (A) by striking “genomics and proteomics”
 24 in subparagraph (A) and inserting “genomics,

1 *proteomics, metabolomics, and other related*
 2 *sciences”;*

3 *(B) by striking subparagraph (C) and in-*
 4 *serting the following:*

5 *“(C) in situ, laboratory, and remote sen-*
 6 *sors—*

7 *“(i) to detect, quantify, and predict the*
 8 *presence, distribution, concentration, tox-*
 9 *icity, or virulence of infectious microbes,*
 10 *harmful algae, toxins, and chemical con-*
 11 *taminants in ocean, coastal, and Great*
 12 *Lakes waters, sediments, organisms, and*
 13 *seafood; and*

14 *“(ii) to identify new genetic resources*
 15 *for biomedical purposes;”;* and

16 *(C) by striking “equipment and tech-*
 17 *nologies” in subparagraph (E) and inserting*
 18 *“equipment, technologies, and methodologies”.*

19 *(d) BIENNIAL REPORT.—Section 902(d) (33 U.S.C.*
 20 *3101(d)) is amended—*

21 *(1) by striking “ANNUAL” in the heading and in-*
 22 *serting “BIENNIAL”;*

23 *(2) in the matter preceding paragraph (1)—*

24 *(A) by striking “Beginning with the first*
 25 *year occurring more than 24 months after the*

1 *date of enactment of the Act, the” and inserting*
 2 *“The”;*

3 *(B) by striking “each year an annual” and*
 4 *inserting “alternate years a biennial”; and*

5 *(C) by striking “year,” and inserting*
 6 *“years,”;*

7 *(3) by striking “fiscal year;” in paragraph (1)*
 8 *and inserting “2 fiscal years;”;*

9 *(4) by striking “that preceding fiscal year;” in*
 10 *paragraph (4) and inserting “the preceding 2 fiscal*
 11 *years;” and*

12 *(5) by striking “action” in paragraph (5) and*
 13 *inserting “action, funding needs,”.*

14 **SEC. 3. NATIONAL OCEANIC AND ATMOSPHERIC ADMINIS-**
 15 **TRATION OCEANS AND HUMAN HEALTH PRO-**
 16 **GRAM.**

17 *(a) ESTABLISHMENT.—Section 903(a) (33 U.S.C.*
 18 *3102(a)) is amended to read as follows:*

19 *“(a) ESTABLISHMENT.—*

20 *“(1) IN GENERAL.—As part of the interagency*
 21 *oceans and human health research program, the Sec-*
 22 *retary of Commerce shall establish an Oceans and*
 23 *Human Health Program to coordinate and imple-*
 24 *ment research and activities of the National Oceanic*
 25 *and Atmospheric Administration related to the role of*

1 *the oceans, the coasts, and the Great Lakes in human*
 2 *health. The program shall include linking research*
 3 *programs with operational activities focused on—*

4 *“(A) forecasting to provide early warning*
 5 *and prediction of long-term health impacts;*

6 *“(B) surveillance to recognize emerging*
 7 *threats to public health;*

8 *“(C) assessment of risk perception, manage-*
 9 *ment, and response; and*

10 *“(D) developing ocean health products and*
 11 *services.*

12 *“(2) COORDINATION WITH OTHER AGENCIES’ EF-*
 13 *FORTS.—The Secretary shall consult with other Fed-*
 14 *eral agencies conducting integrated oceans and*
 15 *human health research and disease surveillance ac-*
 16 *tivities and research in related areas, including the*
 17 *National Science Foundation, the National Institutes*
 18 *of Health (including the National Institute of Envi-*
 19 *ronmental Health Sciences), the Centers for Disease*
 20 *Control and Prevention, the National Institute of En-*
 21 *vironmental Health Sciences, the U.S. Environmental*
 22 *Protection Agency, and other agencies and depart-*
 23 *ments. NOAA shall develop a strategic implementa-*
 24 *tion plan with defined goals and benchmarks for the*
 25 *program, including—*

1 “(A) performance measurements to evaluate
2 the effectiveness of the program;

3 “(B) plans to transition research into pro-
4 gram operations;

5 “(C) ocean and human health indices to
6 quantify and track their changes over time;

7 “(D) coordination of oceans and human
8 health related programs across NOAA and with
9 partner organizations; and

10 “(E) prioritization of research.

11 “(3) SUPPORT FUNCTION.—The Oceans and
12 Human Health Program shall provide support for—

13 “(1) centralized program and research co-
14 ordination;

15 “(2) an external advisory panel;

16 “(3) one or more National Oceanic and At-
17 mospheric Administration national centers of ex-
18 cellence;

19 “(4) one or more diagnostic laboratories to
20 provide processing of marine organism samples;

21 “(5) transitioning scientific discoveries from
22 research activities into applications;

23 “(6) research grants; and

24 “(7) distinguished scholars and training.”.

1 (b) *ADVISORY PANEL*.—Section 903(b) (33 U.S.C.
 2 3102(b)) is amended by striking “sciences.” and inserting
 3 “sciences, including public health professionals, veterinar-
 4 ians, and other health professionals.”.

5 (c) *NATIONAL CENTERS*.—Section 903(c) (33 U.S.C.
 6 3102(c)) is amended—

7 (1) by striking “for” in paragraph (1); and

8 (2) by striking paragraph (2) and inserting the
 9 following:

10 “(2) The centers shall focus on areas related to
 11 agency missions and the program scope (as defined in
 12 section 902(c)).”.

13 (d) *EXTRAMURAL RESEARCH GRANTS*.—Section
 14 903(d) (33 U.S.C. 3102(d)) is amended by adding at the
 15 end the following:

16 “(3) Grants under this subsection shall support
 17 research and activities within the program scope (as
 18 defined in section 902(c)).”.

19 (e) *TRAINING PROGRAM*.—Section 903(e) (33 U.S.C.
 20 3102(e)) is amended—

21 (1) by striking the heading and inserting “(e)
 22 *TRAINING PROGRAM*.—”;

23 (2) by striking “program to provide traineeships,
 24 training,” and inserting “competitive program to
 25 provide training, exposure,”;

1 (3) by striking “initiative.” and inserting
2 “Ocean and Human Health Program.”.

3 (f) *DISTINGUISHED SCHOLARS; COOPERATIVE AGREE-*
4 *MENTS; COORDINATION; ETC.—Section 903 (33 U.S.C.*
5 *3102) is amended by adding at the end the following:*

6 “(f) *DISTINGUISHED SCHOLARS.—The Secretary of*
7 *Commerce is authorized to establish a competitive program*
8 *to recognize highly distinguished external scientists in any*
9 *area of oceans and human health research and to involve*
10 *those scientists in collaborative work with the NOAA Oceans*
11 *and Human Health Program.*

12 “(g) *COOPERATIVE AGREEMENTS.—The Secretary of*
13 *Commerce may execute and perform such contracts, leases,*
14 *grants, or cooperative agreements as may be necessary to*
15 *carry out this section.*

16 “(h) *COORDINATION.—*

17 “(1) *INTEGRATED OCEAN OBSERVING SYSTEM.—*
18 *The Secretary shall ensure that the Oceans and*
19 *Human Health Program and the Integrated Ocean*
20 *Observing System work together to develop and deploy*
21 *instruments for sensing and predicting ocean changes*
22 *linked to health, develop an early warning system*
23 *that detect biological and chemical indicators, and to*
24 *support the data management and analysis functions*

1 to develop forecasts for ocean conditions that threaten
2 health.

3 “(2) *HARMFUL ALGAL BLOOMS AND HYPOXIA.*—
4 *The Secretary shall ensure that the Oceans and*
5 *Human Health Program and Harmful Algal Blooms*
6 *and Hypoxia Program work together to avoid dupli-*
7 *cation of activities and coordinate activities.*

8 “(3) *OTHER PROGRAMS.*—*The Secretary shall*
9 *ensure that the Program also coordinates its efforts*
10 *across NOAA to support ocean and human health re-*
11 *search and programs.*

12 “(i) *REPORT TO CONGRESS.*—*Within 6 months after*
13 *the date of enactment of the Oceans and Human Health*
14 *Reauthorization Act of 2010, the Secretary shall report to*
15 *the Congress on how NOAA plans to implement the rec-*
16 *ommendations of its Science Advisory Board Working*
17 *Group on Oceans and Health.*

18 “(j) *OPERATIONAL PARAMETERS.*—

19 “(1) *IN GENERAL.*—*The Secretary of Commerce*
20 *shall operate the NOAA Oceans and Human Health*
21 *Program as an interdisciplinary research, develop-*
22 *ment, and application program spanning the agency*
23 *and in partnership with the external scientific and*
24 *health communities.*

1 “(2) *RESOURCES*.—To achieve this vision and
2 *maximize potential for leveraging appropriations,*
3 *NOAA may—*

4 “(A) *apply for, accept, use, and spend Fed-*
5 *eral, State, and private funds and in-kind con-*
6 *tributions as necessary to further the mission of*
7 *the program without regard to section 3302(b) of*
8 *title 31, United States Code, and without regard*
9 *to the source or of the period of availability of*
10 *these funds;*

11 “(B) *apply for and hold patents either sole-*
12 *ly or in partnership with others and receive roy-*
13 *alties from patents or licenses; and*

14 “(C) *share personnel and facilities with*
15 *public and private partners as well as provide*
16 *and accept reimbursement for the sharing of such*
17 *personnel and facilities.”.*

18 **SEC. 4. PUBLIC INFORMATION AND OUTREACH.**

19 (a) *IN GENERAL*.—Section 904(a) (33 U.S.C. 3103(a))
20 *is amended by striking “program,” and inserting “pro-*
21 *gram, relevant National Ocean Service and National Ma-*
22 *rine Fisheries Service programs, and institutions of higher*
23 *education,”.*

24 (b) *REPORT*.—Section 904(b) of section 904 (33 U.S.C.
25 *3103(b)) is amended to read as follows:*

1 “(b) *REPORT.*—

2 “(1) *IN GENERAL.*—As part of this program, the
3 Secretary of Commerce shall submit to Congress a bi-
4 ennial report describing—

5 “(A) projects, products, and programs fund-
6 ed under the NOAA Oceans and Human Health
7 Program;

8 “(B) the work of the Advisory Panel;

9 “(C) how the Program is meeting the goals
10 and objectives of its strategic plan; and

11 “(D) any recommendations the Secretary
12 may have for improving or expanding the pro-
13 gram.

14 “(2) *COMBINED REPORTS.*—The report required
15 by paragraph (1) may be the same as the NOAA
16 input for the interagency report required by section
17 902(d).”.

18 **SEC. 5. AUTHORIZATION OF APPROPRIATIONS.**

19 Section 905 (33 U.S.C. 3104) is amended—

20 (1) by striking “Initiative,” “initiative”, and
21 “Initiative.”, and inserting “Program,” “Program”,
22 and “Program.”, respectively;

23 (2) by striking “2005 through 2008” and insert-
24 ing “2010 through 2014”; and

1 (2) by striking “grant and traineeship” and in-
2 serting “grant, distinguished scholars, and training”.

3 **SEC. 6. OCEANS DEFINED TO INCLUDE THE GREAT LAKES.**

4 *The Act is amended by adding after section 905 the*
5 *following:*

6 **“SEC. 906. OCEANS DEFINED.**

7 *“In this title, the term ‘oceans’ includes the oceans, the*
8 *Great Lakes, and the coastal areas appertinent thereto.”.*

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A BILL

To promote ocean and human health and for other purposes.

SEPTEMBER 20, 2010

Reported with an amendment