

## Calendar No. 573

111<sup>TH</sup> CONGRESS  
2<sup>D</sup> SESSION**S. 1252****[Report No. 111-296]**

To promote ocean and human health and for other purposes.

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## 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          (e) PROGRAM SCOPE.—Subsection (e) 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

1 threats, ocean pollutants, marine toxins and  
 2 pathogens, harmful algal blooms, hypoxia, sea-  
 3 food safety and quality, identification of poten-  
 4 tial marine products, and biology and  
 5 pathobiology of marine mammals, corals, and  
 6 other marine organisms; and

7 “(B) supporting disciplines including ma-  
 8 rine genomics, marine environmental microbi-  
 9 ology, ecological chemistry, and conservation  
 10 medicine.”

11 (d) EXTRAMURAL RESEARCH GRANTS.—Subsection  
 12 (d) of section 903 of the Oceans and Human Health Act  
 13 (33 U.S.C. 3102) is amended by adding at the end the  
 14 following:

15 “(3) Grants under this subsection shall support  
 16 research to improve understanding of processes with-  
 17 in the ocean that may affect human and marine ani-  
 18 mal health and to explore the potential contribution  
 19 of marine organisms to medicine and research, in-  
 20 cluding—

21 “(A) vector-, water-, and food-borne dis-  
 22 eases of humans and marine organisms, includ-  
 23 ing marine mammals, corals, and fish;

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

1           paets 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          (e) 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 Oee-  
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

1 findings developed under the Oceans and Human  
2 Health Initiative of the National Oceanic and At-  
3 mospheric Administration. Each such report shall—

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

6 “(B) describe the work of the Advisory  
7 Committee and the manner in which the pro-  
8 gram is meeting development and implementa-  
9 tion recommendations for the program; and

10 “(C) include recommendations for improv-  
11 ing or expanding the program.

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

17 **SEC. 5. AUTHORIZATION OF APPROPRIATIONS.**

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

20 (1) by striking “2005 through 2008” and in-  
21 serting “2010 through 2014”; and

22 (2) by inserting “, distinguished scholar,” after  
23 “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           (1) by striking paragraphs (1) and (2) and in-  
2           serting the following:

3           “(1) *Interdisciplinary research among the ocean,*  
4           *atmospheric, and medical sciences, and coordinated*  
5           *research and activities to improve understanding of*  
6           *processes within the ocean that may affect human*  
7           *health and to explore the potential contribution of*  
8           *marine organisms to medicine and research, includ-*  
9           *ing—*

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

13           “(B) *human health effects associated with*  
14           *harmful algal blooms and hypoxia (in collabora-*  
15           *tion with the Inter-Agency Task Force on Harm-*  
16           *ful Algal Blooms and Hypoxia);*

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

19           “(D) *marine organisms and habitats as*  
20           *models for biomedical research and as indicators*  
21           *of human health and well being and marine en-*  
22           *vironmental health;*

23           “(E) *marine environmental microbiology*  
24           *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 appertaining thereto.”.*



Calendar No. 573

11<sup>TH</sup> CONGRESS  
2<sup>D</sup> SESSION

**S. 1252**

[Report No. 111-296]

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**A BILL**

To promote ocean and human health and for other purposes.

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SEPTEMBER 20, 2010

Reported with an amendment