

113TH CONGRESS  
2D SESSION

# S. 2181

To authorize and strengthen the tsunami detection, forecast, warning, research, and mitigation program of the National Oceanic and Atmospheric Administration, and for other purposes.

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## IN THE SENATE OF THE UNITED STATES

MARCH 27, 2014

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

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## A BILL

To authorize and strengthen the tsunami detection, forecast, warning, research, and mitigation program of the National Oceanic and Atmospheric Administration, 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 “Tsunami Warning and  
5       Education Reauthorization Act of 2014”.

1 **SEC. 2. REFERENCES TO THE TSUNAMI WARNING AND EDU-**  
2 **CATION ACT.**

3 Except as otherwise expressly provided, whenever in  
4 this Act an amendment or repeal is expressed in terms  
5 of an amendment to, or repeal of, a section or other provi-  
6 sion, the reference shall be considered to be made to a  
7 section or other provision of title VIII of the Magnuson-  
8 Stevens Fishery Conservation and Management Reauthor-  
9 ization Act of 2006 (Public Law 109–479; 33 U.S.C. 3201  
10 et seq.), also known as the “Tsunami Warning and Edu-  
11 cation Act”.

12 **SEC. 3. EXPANSION OF PURPOSES OF TSUNAMI WARNING**  
13 **AND EDUCATION ACT.**

14 Section 803 (33 U.S.C. 3202) is amended—

15 (1) in paragraph (1), by inserting “research,”  
16 after “warnings,”;

17 (2) by amending paragraph (2) to read as fol-  
18 lows:

19 “(2) to enhance and modernize the tsunami  
20 warning system of the United States to increase the  
21 accuracy of forecasts and warnings and reduce false  
22 alarms;”;

23 (3) in paragraph (3), by inserting “and estab-  
24 lish standards for” before “mapping,”;

25 (4) in paragraph (4)—

1 (A) by striking “and increase” and insert-  
2 ing “, increase, and establish standards for”;  
3 and

4 (B) by inserting “, including the warning  
5 signs of locally generated tsunamis” after “ap-  
6 proaching”;

7 (5) in paragraph (5), by striking “, including  
8 the Indian Ocean; and” and inserting a semicolon;

9 (6) by redesignating paragraph (6) as para-  
10 graph (7); and

11 (7) by inserting after paragraph (5), the fol-  
12 lowing:

13 “(6) to foster resilient communities in the face  
14 of tsunami and other coastal hazards; and”.

15 **SEC. 4. MODIFICATION OF TSUNAMI FORECASTING AND**  
16 **WARNING PROGRAM.**

17 (a) COMPONENTS.—Subsection (b) of section 804 (33  
18 U.S.C. 3203) is amended—

19 (1) in paragraph (1), by inserting “or main-  
20 tained” after “established”;

21 (2) in paragraph (4), by inserting “and safe-  
22 guarding port and harbor operations” after “com-  
23 munities”;

1           (3) in paragraph (6), by inserting “, including  
2 regional seismic networks previously installed in  
3 areas of sparse instrumentation” after “networks”;

4           (4) in paragraph (7)—

5                 (A) by inserting “, including graphical  
6 warning products,” after “warnings”; and

7                 (B) by inserting “and Wireless Emergency  
8 Alerts” after “Hazards Program”; and

9           (5) in paragraph (8), by inserting “and com-  
10 mercial and Federal undersea communications ca-  
11 bles” after “technologies”.

12         (b) TSUNAMI WARNING SYSTEM.—Subsection (c) of  
13 such section is amended to read as follows:

14           “(c) TSUNAMI WARNING SYSTEM.—The program  
15 under this section shall operate a tsunami warning system  
16 that—

17                 “(1) is capable of forecasting tsunamis any-  
18 where in the Pacific and Arctic Ocean regions and  
19 providing adequate warnings;

20                 “(2) is capable of providing adequate warnings  
21 in areas of the Atlantic Ocean, Caribbean Sea, and  
22 Gulf of Mexico that are determined—

23                         “(A) to be geologically active, or to have  
24 significant potential for geological activity; and

1           “(B) to pose significant risks of tsunamis  
2           for States along the coastal areas of the Atlan-  
3           tic Ocean, Caribbean Sea, or Gulf of Mexico;  
4           and

5           “(3) supports other international tsunami fore-  
6           casting and warning efforts.”.

7           (c) TSUNAMI WARNING CENTERS.—Subsection (d) of  
8 such section is amended to read as follows:

9           “(d) TSUNAMI WARNING CENTERS.—

10           “(1) ESTABLISHMENT.—The Administrator  
11           shall establish or maintain, as part of the National  
12           Centers for Environmental Prediction, centers to  
13           support the tsunami warning system required by  
14           subsection (c).

15           “(2) RESPONSIBILITIES.—The responsibilities  
16           of the centers established or maintained pursuant to  
17           paragraph (1) shall include the following:

18           “(A) Continuously monitoring data from  
19           seismological, deep ocean, and tidal monitoring  
20           stations.

21           “(B) Evaluating earthquakes that have the  
22           potential to generate tsunamis.

23           “(C) Evaluating deep ocean buoy data and  
24           tidal monitoring stations for indications of

1           tsunamis resulting from earthquakes and other  
2           sources.

3           “(D) To the extent practicable, utilizing  
4           ensemble models to predict tsunamis.

5           “(E) Ensuring supercomputing resources  
6           of the National Centers for Environmental Pre-  
7           diction are available to run, as rapidly as pos-  
8           sible, such computer models as are needed for  
9           purposes of the tsunami warning system oper-  
10          ated pursuant to subsection (c).

11          “(F) Disseminating forecasts and tsunami  
12          warning bulletins to Federal, State, and local  
13          government officials and the public.

14          “(G) Developing outreach plans to ensure  
15          close integration with local Weather Forecast  
16          Offices of the National Weather Service and  
17          emergency managers.

18          “(H) Working with local Weather Forecast  
19          Offices to ensure they have the technical knowl-  
20          edge and capability to disseminate tsunami  
21          warnings to the communities they serve.

22          “(I) Evaluating effectiveness of warnings  
23          and of coordination with local Weather Forecast  
24          Offices after significant tsunami events.

1           “(J) Coordinating with the tsunami hazard  
2 mitigation program conducted under section  
3 805 to ensure ongoing sharing of information  
4 between forecasters and emergency manage-  
5 ment officials.

6           “(K) Making data gathered under this title  
7 and post-warning analyses conducted by the  
8 National Weather Service or other relevant Ad-  
9 ministration offices available to researchers.

10          “(3) REDUNDANT WARNING CAPABILITY.—The  
11 tsunami warning centers established or maintained  
12 pursuant to paragraph (1), including the warning  
13 centers in Hawaii and Alaska that were established  
14 under this section and in operation on the day be-  
15 fore the date of the enactment of the Tsunami  
16 Warning and Education Reauthorization Act of  
17 2014, shall maintain a redundant warning capability  
18 and ability to perform back-up duties for each other.

19          “(4) COORDINATION WITH NATIONAL WEATHER  
20 SERVICE.—The National Weather Service regions  
21 and local forecast offices shall coordinate with the  
22 centers established or maintained pursuant to para-  
23 graph (1) to ensure that—

1           “(A) they have the technical knowledge  
2           and capability to disseminate tsunami warnings  
3           for the communities they serve; and

4           “(B) their connections with local emer-  
5           gency management officials are leveraged for  
6           optimally disseminating tsunami warnings and  
7           forecasts.

8           “(5) STANDARDS.—The Administrator shall—

9           “(A) establish uniform operational proce-  
10          dures for the centers established or maintained  
11          pursuant to paragraph (1), including the em-  
12          ployment of software applications, checklists,  
13          decision support tools, and tsunami warning  
14          products that have been standardized across the  
15          program established under this section;

16          “(B) ensure that processes and products of  
17          the warning system operated pursuant to sub-  
18          section (c)—

19                 “(i) reflect industry best practices;

20                 “(ii) conform with internationally rec-  
21                 ognized standards for information tech-  
22                 nology; and

23                 “(iii) conform to the maximum extent  
24                 practicable with other warning products

1                   and practices of the National Weather  
2                   Service;

3                   “(C) ensure that future adjustments to  
4                   operational protocols, processes, and warning  
5                   products—

6                                 “(i) are made consistently across the  
7                   warning system operated pursuant to sub-  
8                   section (c); and

9                                 “(ii) are applied in a uniform manner  
10                   across such warning system; and

11                               “(D) promote standards for evaluating and  
12                   improving tsunami forecast models.

13                   “(6) OUTREACH.—The Administrator shall en-  
14                   sure the tsunami warning centers established or  
15                   maintained pursuant to paragraph (1) develop and  
16                   carry out formal outreach plans.”.

17                   (d) TRANSFER OF TECHNOLOGY; MAINTENANCE AND  
18                   UPGRADES.—Subsection (e) of such section is amended  
19                   to read as follows:

20                               “(e) TRANSFER OF TECHNOLOGY; MAINTENANCE  
21                   AND UPGRADES.—In carrying out this section, the Admin-  
22                   istrator shall—

23                               “(1) develop requirements for the equipment  
24                   used to forecast tsunamis, including—

1           “(A) provisions for multipurpose detection  
2 platforms;

3           “(B) reliability and performance metrics;  
4 and

5           “(C) to the maximum extent practicable,  
6 how the equipment will be integrated with other  
7 United States and global ocean and coastal ob-  
8 servation systems, the global earth observing  
9 system of systems, the global seismic networks,  
10 and the Advanced National Seismic System;

11          “(2) develop and execute a plan for the transfer  
12 of technology from ongoing research conducted as  
13 part of the program established or maintained under  
14 section 806 into the program under this section; and

15          “(3) ensure that maintaining operational tsu-  
16 nami detection equipment is the highest priority  
17 within the program carried out under this section.”.

18          (e) FEDERAL COOPERATION.—Subsection (f) of such  
19 section is amended to read as follows:

20          “(f) FEDERAL COOPERATION.—When deploying and  
21 maintaining tsunami detection technologies under the pro-  
22 gram under this section, the Administrator shall—

23                 “(1) identify which assets of other Federal  
24 agencies are necessary to support such program; and

1           “(2) work with each agency identified under  
2 paragraph (1)—

3           “(A) to acquire the agency’s assistance;  
4 and

5           “(B) to prioritize the necessary assets.”.

6           (f) UNNECESSARY PROVISIONS.—Such section is fur-  
7 ther amended by striking subsections (g) through (k).

8 **SEC. 5. MODIFICATION OF NATIONAL TSUNAMI HAZARD**  
9 **MITIGATION PROGRAM.**

10          (a) IN GENERAL.—Section 805 (33 U.S.C. 3204) is  
11 amended by striking subsections (a) through (d) and in-  
12 serting the following:

13          “(a) PROGRAM REQUIRED.—The Administrator, in  
14 consultation with the Administrator of the Federal Emer-  
15 gency Management Agency and the heads of such other  
16 agencies as the Administrator considers relevant, shall  
17 conduct a community-based tsunami hazard mitigation  
18 program to improve tsunami preparedness of at-risk areas  
19 in the United States and the territories of the United  
20 States.

21          “(b) PROGRAM COMPONENTS.—The program con-  
22 ducted pursuant to subsection (a) shall include the fol-  
23 lowing:

24           “(1) Technical and financial assistance to  
25 coastal States, territories, tribes, and local govern-

1       ments to develop and implement activities under this  
2       section.

3               “(2) Integration of tsunami preparedness and  
4       mitigation programs into ongoing State-based haz-  
5       ard warning, resilience planning, and risk manage-  
6       ment activities, including predisaster planning, emer-  
7       gency response, evacuation planning, disaster recov-  
8       ery, hazard mitigation, and community development  
9       and redevelopment programs in affected areas.

10              “(3) Activities to promote the adoption of tsu-  
11       nami resilience, preparedness, warning, and mitiga-  
12       tion measures by Federal, State, territorial, tribal,  
13       and local governments and nongovernmental entities,  
14       including educational and risk communication pro-  
15       grams to discourage development in high-risk areas.

16              “(4) Development of regional tsunami hazard  
17       and risk assessments, using inundation models that  
18       meet programmatic standards for accuracy. Such re-  
19       gional risk assessments may include the following:

20                      “(A) The sources, sizes, and histories of  
21       tsunamis in that region.

22                      “(B) Inundation models and maps of crit-  
23       ical infrastructure and socioeconomic vulner-  
24       ability in areas subject to tsunami inundation.

1           “(C) Maps of evacuation areas and evacu-  
2           ation routes.

3           “(D) Evaluations of the size of populations  
4           that will require evacuation, including popu-  
5           lations with special evacuation needs.

6           “(5) Community-based outreach and education  
7           networks and programs to ensure community readi-  
8           ness and resilience, including the following:

9           “(A) The implementation of technical  
10          training and public education programs.

11          “(B) The development of decision support  
12          tools.

13          “(C) The evaluation of effectiveness of tsu-  
14          nami education efforts and development of edu-  
15          cation guidelines based on that evidence as well  
16          as the expertise of the Administration in hazard  
17          communications.

18          “(6) Propagation of standards for community  
19          planning, education, and training products, pro-  
20          grams, and tools, including standards for—

21                 “(A) mapping products;

22                 “(B) inundation models, although national  
23                 standards for inundation models shall not pre-  
24                 vent States, territories, tribes, and local govern-  
25                 ments from designating additional areas as

1 being at-risk based on knowledge of local condi-  
2 tions; and

3 “(C) effective emergency exercises.

4 “(c) AUTHORIZED ACTIVITIES.—In addition to activi-  
5 ties conducted under subsection (b), the program con-  
6 ducted pursuant to subsection (a) may include the fol-  
7 lowing:

8 “(1) Multidisciplinary vulnerability assessment  
9 research, education, and training to help integrate  
10 risk management and resilience objective with com-  
11 munity development planning and policies.

12 “(2) Risk management training for the public,  
13 local officials, and institutions to enhance under-  
14 standing and preparedness.

15 “(3) Development of practical applications for  
16 existing or emerging technologies, such as modeling,  
17 remote sensing, geospatial technology, engineering,  
18 and observing systems.

19 “(4) Risk management and resilience data and  
20 information services, including—

21 “(A) access to data and products derived  
22 from observing and detection systems; and

23 “(B) development and maintenance of new  
24 integrated data products to support risk assess-

1           ment, risk management, and resilience pro-  
2           grams.

3           “(5) Risk notification systems that coordinate  
4           with and build upon existing systems and actively  
5           engage policy officials, government agencies, busi-  
6           ness communities, nongovernmental organizations,  
7           and the media.

8           “(d) COORDINATING COMMITTEE.—

9           “(1) IN GENERAL.—The Administrator shall es-  
10          tablish a coordinating committee to assist the Ad-  
11          ministrator in the conduct of the program required  
12          by subsection (a).

13          “(2) COMPOSITION.—The coordinating com-  
14          mittee shall be composed of such representatives as  
15          the Administrator considers appropriate to represent  
16          Federal, State, tribal, territorial, and local govern-  
17          ments.

18          “(3) SUBCOMMITTEES.—The Administrator  
19          may approve the formation of subcommittees to ad-  
20          dress specific program components or regional  
21          issues.

22          “(4) RESPONSIBILITIES.—The coordinating  
23          committee shall—

24                  “(A) recommend how funds appropriated  
25                  or otherwise made available to carry out the

1 program required by subsection (a) should be  
2 allocated;

3 “(B) ensure that areas described in section  
4 804(c) in the United States and its territories  
5 have the opportunity to participate in the pro-  
6 gram;

7 “(C) provide recommendations to the Ad-  
8 ministrator on how to improve continuously the  
9 TsunamiReady program, particularly on ways  
10 to make communities more tsunami resilient  
11 through the use of inundation maps and models  
12 and other hazard mitigation practices; and

13 “(D) ensure that all components of the  
14 program required by subsection (a) are inte-  
15 grated with ongoing State-based hazard warn-  
16 ing, risk management, and resilience activities,  
17 including—

18 “(i) integrating with emergency re-  
19 sponse plans, disaster recovery, hazard  
20 mitigation, and community development  
21 programs in affected areas; and

22 “(ii) integrating information to assist  
23 in tsunami evacuation route planning.

24 “(5) EXEMPTION FROM FACA TERMINATION RE-  
25 QUIREMENT.—Section 14 of the Federal Advisory

1 Committee Act (5 U.S.C. App. 14) shall not apply  
2 to the committee established pursuant to paragraph  
3 (1).”.

4 (b) REPORT ON ACCREDITATION OF TSUNAMIREADY  
5 PROGRAM.—Not later than 180 days after the date of the  
6 enactment of this Act, the Administrator of the National  
7 Oceanic and Atmospheric Administration shall submit to  
8 the Committee on Commerce, Science, and Transportation  
9 of the Senate and the Committee on Science, Space, and  
10 Technology of the House of Representatives a report on  
11 which authorities and activities would be needed to have  
12 the TsunamiReady program of the National Weather  
13 Service accredited by the Emergency Management Accred-  
14 itation Program.

15 **SEC. 6. MODIFICATION OF TSUNAMI RESEARCH PROGRAM.**

16 Section 806 (33 U.S.C. 3205) is amended—

17 (1) in the matter before paragraph (1), by  
18 striking “The Administrator shall” and all that fol-  
19 lows through “establish or maintain” and inserting  
20 the following:

21 “(a) IN GENERAL.—The Administrator shall, in con-  
22 sultation with such other Federal agencies, State govern-  
23 ments, and academic institutions as the Administrator  
24 considers appropriate, the coordinating committee estab-

1 lished under section 805(d), and the panel established  
2 under section 808(a), establish or maintain”;

3           (2) in subsection (a), as designated by para-  
4           graph (1), by striking “and assessment for tsunami  
5           tracking and numerical forecast modeling. Such re-  
6           search program shall—” and inserting the following:  
7           “assessment for tsunami tracking and numerical  
8           forecast modeling, and standards development.

9           “(b) RESPONSIBILITIES.—The research program es-  
10          tablished and maintained pursuant to subsection (a)  
11          shall—”; and

12           (3) in subsection (b), as designated by para-  
13          graph (2)—

14           (A) in paragraph (3)—

15           (i) by striking “include” and inserting  
16           “conduct”; and

17           (ii) by striking “and” at the end;

18           (B) by redesignating paragraph (4) as  
19          paragraph (5); and

20           (C) by inserting after paragraph (3) the  
21          following:

22           “(4) develop the technical basis for validation of  
23          tsunami maps, numerical tsunami models, digital  
24          elevation models, and forecasts; and”.

1 **SEC. 7. GLOBAL TSUNAMI WARNING AND MITIGATION NET-**  
2 **WORK.**

3 Section 807 (33 U.S.C. 3206) is amended—

4 (1) by amending subsection (a) to read as fol-  
5 lows:

6 “(a) SUPPORT FOR DEVELOPMENT OF INTER-  
7 NATIONAL TSUNAMI WARNING SYSTEM.—The Adminis-  
8 trator shall, in coordination with the Secretary of State  
9 and in consultation with such other agencies as the Ad-  
10 ministrator considers relevant, provide technical assistance  
11 and training to the Intergovernmental Oceanographic  
12 Commission of the United Nations Educational, Scientific  
13 and Cultural Organization, the World Meteorological Or-  
14 ganization of the United Nations, and such other inter-  
15 national entities as the Administrator considers appro-  
16 priate, as part of international efforts to develop a fully  
17 functional global tsunami forecast and warning system  
18 comprising regional tsunami warning networks.”;

19 (2) by striking subsection (b); and

20 (3) by redesignating subsections (c) and (d) as  
21 subsections (b) and (c), respectively.

22 **SEC. 8. TSUNAMI SCIENCE, TECHNOLOGY, AND PREPARED-**  
23 **NESS PANEL.**

24 (a) IN GENERAL.—Title VIII of the Magnuson-Ste-  
25 vens Fishery Conservation and Management Reauthoriza-

1 tion Act of 2006 (Public Law 109–479; 33 U.S.C. 3201  
2 et seq.) is amended—

3 (1) by redesignating section 808 as section 809;

4 and

5 (2) by inserting after section 807 the following:

6 **“SEC. 808. TSUNAMI SCIENCE, TECHNOLOGY, AND PRE-**

7 **PAREDNESS PANEL.**

8 **“(a) ESTABLISHMENT.—**

9 **“(1) IN GENERAL.—**The Administrator shall es-  
10 tablish a panel to provide advice to the Adminis-  
11 trator on matters regarding tsunami science, tech-  
12 nology, and preparedness.

13 **“(2) SUBCOMMITTEE OF SCIENCE ADVISORY**  
14 **BOARD.—**The panel established pursuant to para-  
15 graph (1) shall be a standing subcommittee of the  
16 Science Advisory Board of the Administration.

17 **“(b) MEMBERSHIP.—**

18 **“(1) COMPOSITION.—**The panel established  
19 under subsection (a) shall be composed of not fewer  
20 than 7 members selected by the Administrator from  
21 among individuals who have academic or practical  
22 expertise in physical sciences, social sciences, infor-  
23 mation technology, coastal resilience, emergency  
24 management, or such other disciplines as the Ad-  
25 ministrator considers appropriate.

1           “(2) FEDERAL EMPLOYMENT.—No member of  
2           the panel established pursuant to subsection (a) may  
3           be a Federal employee.

4           “(c) RESPONSIBILITIES.—Not less frequently than  
5           once every 2 years, the panel established under subsection  
6           (a) shall—

7           “(1) review the activities of the Federal Govern-  
8           ment (including the activities of the program con-  
9           ducted under section 805) relating to tsunami re-  
10          search, forecasting, warning, and preparation;

11          “(2) submit to the Administrator and such oth-  
12          ers as the Administrator considers appropriate—

13                 “(A) the findings of the panel with respect  
14                 to the most recent review conducted pursuant  
15                 to paragraph (1); and

16                 “(B) such recommendations for legislative  
17                 or administrative action as the panel considers  
18                 appropriate to improve Federal tsunami re-  
19                 search, forecasting, warning, and preparation.

20          “(d) BIENNIAL REPORTS TO CONGRESS.—Not less  
21          frequently than once every 2 years, the Administrator  
22          shall submit to the Committee on Commerce, Science, and  
23          Transportation of the Senate and the Committee on  
24          Science, Space, and Technology of the House of Rep-

1 representatives a report on the findings and recommendations  
 2 received by the Administrator under subsection (c)(2).”.

3 (b) CLERICAL AMENDMENT.—The table of contents  
 4 in section 1(b) of such Act is amended by striking the  
 5 item relating to section 808 and inserting the following:

“Sec. 808. Tsunami science, technology, and preparedness panel.

“Sec. 809. Authorization of appropriations.”.

6 **SEC. 9. REPORT ON IMPLEMENTATION OF TSUNAMI WARN-**  
 7 **ING AND EDUCATION ACT.**

8 (a) IN GENERAL.—Not later than 1 year after the  
 9 date of the enactment of this Act, the Administrator of  
 10 the National Oceanic and Atmospheric Administration  
 11 shall submit to Congress a report on the implementation  
 12 of the Tsunami Warning and Education Act (33 U.S.C.  
 13 3201 et seq.), as amended by this Act.

14 (b) ELEMENTS.—The report required by subsection  
 15 (a) shall include the following:

16 (1) A detailed description of the progress made  
 17 in implementing sections 804(d)(5), 805(b)(6), and  
 18 806(b)(4) of the Tsunami Warning and Education  
 19 Act (33 U.S.C. 3203, 3204, 3205), as amended by  
 20 this Act.

21 (2) A description of the ways that tsunami  
 22 warnings and warning products issued by the Tsu-  
 23 nami Forecasting and Warning Program established  
 24 under section 804 of such Act (33 U.S.C. 3203), as

1 amended by this Act, can be standardized and  
2 streamlined with warnings and warning products for  
3 hurricanes, coastal storms, and other coastal flood-  
4 ing events.

5 **SEC. 10. AUTHORIZATION OF APPROPRIATIONS.**

6 Section 809, as redesignated by section 8(a)(1), is  
7 amended—

8 (1) in paragraph (4)(B), by striking “and” at  
9 the end;

10 (2) in paragraph (5)(B), by striking the period  
11 at the end and inserting “; and”; and

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

13 “(6) \$36,000,000 for each of fiscal years 2015  
14 through 2019, of which—

15 “(A) not less than 27 percent of the  
16 amount appropriated shall be for activities  
17 under the tsunami hazard mitigation program  
18 under section 805; and

19 “(B) not less than 8 percent of the amount  
20 appropriated shall be for the tsunami research  
21 program under section 806.”.

22 **SEC. 11. REPEAL OF DUPLICATE PROVISIONS OF LAW.**

23 (a) REPEAL.—Public Law 109–424 (120 Stat. 2902)  
24 is hereby repealed.

1           (b) CONSTRUCTION.—Nothing in this section shall be  
2 construed to repeal, or affect in any way, title VIII of the  
3 Magnuson-Stevens Fishery Conservation and Manage-  
4 ment Reauthorization Act of 2006 (Public Law 109–479).

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