

113TH CONGRESS
2D SESSION

H. R. 5309

IN THE SENATE OF THE UNITED STATES

SEPTEMBER 9, 2014

Received; read twice and referred to the Committee on Commerce, Science,
and Transportation

AN ACT

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,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Tsunami Warning,
3 Education, and Research Act of 2014”.

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

6 Except as otherwise expressly provided, whenever in
7 this Act an amendment or repeal is expressed in terms
8 of an amendment to, or repeal of, a section or other provi-
9 sion, the reference shall be considered to be made to a
10 section or other provision of the Tsunami Warning and
11 Education Act (33 U.S.C. 3201 et seq.).

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

14 Section 3 (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 existing
20 United States Tsunami Warning System to increase
21 the accuracy of forecasts and warnings, to maintain
22 full coverage of tsunami detection assets, and to re-
23 duce false alarms;”;

24 (3) by amending paragraph (3) to read as fol-
25 lows:

1 “(3) to improve and develop standards and
2 guidelines for mapping, modeling, and assessment
3 efforts to improve tsunami detection, forecasting,
4 warnings, notification, mitigation, resiliency, re-
5 sponse, outreach, and recovery;”;

6 (4) by redesignating paragraphs (4), (5), and
7 (6) as paragraphs (5), (6), and (8), respectively;

8 (5) by inserting after paragraph (3) the fol-
9 lowing:

10 “(4) to improve research efforts related to im-
11 proving tsunami detection, forecasting, warnings, no-
12 tification, mitigation, resiliency, response, outreach,
13 and recovery;”;

14 (6) in paragraph (5), as so redesignated—

15 (A) by striking “and increase” and insert-
16 ing “, increase, and develop uniform standards
17 and guidelines for”; and

18 (B) by inserting “, including the warning
19 signs of locally generated tsunami” after “ap-
20 proaching”;

21 (7) in paragraph (6), as so redesignated, by
22 striking “, including the Indian Ocean; and” and in-
23 serting a semicolon; and

24 (8) by inserting after paragraph (6), as so re-
25 designated, the following:

1 “(7) to foster resilient communities in the face
2 of tsunami and other coastal hazards; and”.

3 **SEC. 4. MODIFICATION OF TSUNAMI FORECASTING AND**
4 **WARNING PROGRAM.**

5 (a) IN GENERAL.—Subsection (a) of section 4 (33
6 U.S.C. 3203) is amended by striking “Atlantic Ocean,
7 Caribbean Sea, and Gulf of Mexico region” and inserting
8 “Atlantic Ocean region, including the Caribbean Sea and
9 the Gulf of Mexico”.

10 (b) COMPONENTS.—Subsection (b) of such section 4
11 is amended—

12 (1) in paragraph (1), by striking “established”
13 and inserting “supported or maintained”;

14 (2) in paragraph (4), by inserting “and safe-
15 guarding port and harbor operations” after “com-
16 munities”;

17 (3) in paragraph (7)—

18 (A) by inserting “, including graphical
19 warning products,” after “warnings”;

20 (B) by inserting “, territories,” after
21 “States”; and

22 (C) by inserting “and Wireless Emergency
23 Alerts” after “Hazards Program”; and

1 (4) in paragraph (8), by inserting “and com-
2 mercial and Federal undersea communications ca-
3 bles” after “observing technologies”.

4 (c) TSUNAMI WARNING SYSTEM.—Subsection (c) of
5 such section 4 is amended to read as follows:

6 “(c) TSUNAMI WARNING SYSTEM.—The program
7 under this section shall operate a tsunami warning system
8 that—

9 “(1) is capable of forecasting tsunami, includ-
10 ing forecasting tsunami arrival time and inundation
11 estimates, anywhere in the Pacific and Arctic Ocean
12 regions and providing adequate warnings;

13 “(2) is capable of forecasting and providing
14 adequate warnings in areas of the Atlantic Ocean,
15 including the Caribbean Sea and Gulf of Mexico,
16 that are determined—

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

19 “(B) to pose significant risks of tsunami
20 for States along the coastal areas of the Atlan-
21 tic Ocean, Caribbean Sea, or Gulf of Mexico;
22 and

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

1 (d) TSUNAMI WARNING CENTERS.—Subsection (d)
2 of such section 4 is amended to read as follows:

3 “(d) TSUNAMI WARNING CENTERS.—

4 “(1) IN GENERAL.—The Administrator shall
5 support or maintain centers, as part of the National
6 Centers for Environmental Prediction, to support
7 the tsunami warning system required by subsection
8 (c). The Centers shall include—

9 “(A) the National Tsunami Warning Cen-
10 ter, located in Alaska, which is primarily re-
11 sponsible for Alaska, the continental United
12 States, and the Caribbean;

13 “(B) the Pacific Tsunami Warning Center,
14 located in Hawaii, which is primarily respon-
15 sible for Hawaii and other areas of the Pacific
16 not covered by the National Center; and

17 “(C) any additional forecast and warning
18 centers determined by the National Weather
19 Service to be necessary.

20 “(2) RESPONSIBILITIES.—The responsibilities
21 of the centers supported or maintained pursuant to
22 paragraph (1) shall include the following:

23 “(A) Continuously monitoring data from
24 seismological, deep ocean, coastal sea level, and

1 tidal monitoring stations and other data sources
2 as may be developed and deployed.

3 “(B) Evaluating earthquakes, landslides,
4 and volcanic eruptions that have the potential
5 to generate tsunami.

6 “(C) Evaluating deep ocean buoy data and
7 tidal monitoring stations for indications of tsu-
8 nami resulting from earthquakes and other
9 sources.

10 “(D) To the extent practicable, utilizing a
11 range of models to predict tsunami arrival
12 times and flooding estimates.

13 “(E) Disseminating forecasts and tsunami
14 warning bulletins to Federal, State, and local
15 government officials and the public.

16 “(F) Coordinating with the tsunami haz-
17 ard mitigation program conducted under section
18 5 to ensure ongoing sharing of information be-
19 tween forecasters and emergency management
20 officials.

21 “(G) Making data gathered under this Act
22 and post-warning analyses conducted by the
23 National Weather Service or other relevant Ad-
24 ministration offices available to researchers.

1 “(3) FAIL-SAFE WARNING CAPABILITY.—The
2 tsunami warning centers supported or maintained
3 pursuant to paragraph (1) shall maintain a fail-safe
4 warning capability and ability to perform back-up
5 duties for each other.

6 “(4) COORDINATION WITH NATIONAL WEATHER
7 SERVICE.—The National Weather Service shall co-
8 ordinate with the centers supported or maintained
9 pursuant to paragraph (1) to ensure that regional
10 and local forecast offices—

11 “(A) have the technical knowledge and ca-
12 pability to disseminate tsunami warnings for
13 the communities they serve; and

14 “(B) leverage connections with local emer-
15 gency management officials for optimally dis-
16 seminating tsunami warnings and forecasts.

17 “(5) UNIFORM OPERATING PROCEDURES.—The
18 Administrator shall—

19 “(A) develop uniform operational proce-
20 dures for the centers supported or maintained
21 pursuant to paragraph (1), including the use of
22 software applications, checklists, decision sup-
23 port tools, and tsunami warning products that
24 have been standardized across the program sup-
25 ported under this section;

1 “(B) ensure that processes and products of
2 the warning system operated pursuant to sub-
3 section (c)—

4 “(i) reflect industry best practices;

5 “(ii) conform to the maximum extent
6 practicable with internationally recognized
7 standards for information technology; and

8 “(iii) conform to the maximum extent
9 practicable with other warning products
10 and practices of the National Weather
11 Service;

12 “(C) ensure that future adjustments to
13 operational protocols, processes, and warning
14 products—

15 “(i) are made consistently across the
16 warning system operated pursuant to sub-
17 section (c); and

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

20 “(D) disseminate guidelines and metrics
21 for evaluating and improving tsunami forecast
22 models.

23 “(6) AVAILABLE RESOURCES.—The Adminis-
24 trator, through the National Weather Service, shall
25 ensure that resources are available to fulfill the obli-

1 gations of this Act. This includes ensuring super-
2 computing resources are available to run such com-
3 puter models as are needed for purposes of the tsu-
4 nami warning system operated pursuant to sub-
5 section (c).”.

6 (e) TRANSFER OF TECHNOLOGY; MAINTENANCE AND
7 UPGRADES.—Subsection (e) of such section 4 is amended
8 to read as follows:

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

12 “(1) develop requirements for the equipment
13 used to forecast tsunami, including—

14 “(A) provisions for multipurpose detection
15 platforms;

16 “(B) reliability and performance metrics;
17 and

18 “(C) to the maximum extent practicable,
19 requirements for the integration of equipment
20 with other United States and global ocean and
21 coastal observation systems, the global Earth
22 observing system of systems, the global seismic
23 networks, and the Advanced National Seismic
24 System;

1 “(2) develop and execute a plan for the transfer
2 of technology from ongoing research conducted as
3 part of the program supported or maintained under
4 section 6 into the program under this section; and
5 “(3) ensure that the Administration’s oper-
6 ational tsunami detection equipment is properly
7 maintained.”.

8 (f) FEDERAL COOPERATION.—Subsection (f) of such
9 section 4 is amended to read as follows:

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

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

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

17 “(A) to acquire the agency’s assistance;
18 and

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

20 (g) UNNECESSARY PROVISIONS.—Such section 4 is
21 further amended by striking subsections (g) through (k).

1 **SEC. 5. MODIFICATION OF NATIONAL TSUNAMI HAZARD**
2 **MITIGATION PROGRAM.**

3 (a) IN GENERAL.—Section 5 (33 U.S.C. 3204) is
4 amended by striking subsections (a) through (d) and in-
5 serting the following:

6 “(a) PROGRAM REQUIRED.—The Administrator, in
7 consultation with the Administrator of the Federal Emer-
8 gency Management Agency and the heads of such other
9 agencies as the Administrator considers relevant, shall
10 conduct a community-based tsunami hazard mitigation
11 program to improve tsunami preparedness and resiliency
12 of at-risk areas in the United States and the territories
13 of the United States.

14 “(b) PROGRAM COMPONENTS.—The Program con-
15 ducted pursuant to subsection (a) shall include the fol-
16 lowing:

17 “(1) Technical and financial assistance to
18 coastal States, territories, tribes, and local govern-
19 ments to develop and implement activities under this
20 section.

21 “(2) Integration of tsunami preparedness and
22 mitigation programs into ongoing State-based haz-
23 ard warning, resilience planning, and risk manage-
24 ment activities, including predisaster planning, emer-
25 gency response, evacuation planning, disaster recov-

1 ery, hazard mitigation, and community development
2 and redevelopment programs in affected areas.

3 “(3) Activities to promote the adoption of tsu-
4 nami resilience, preparedness, warning, and mitiga-
5 tion measures by Federal, State, territorial, tribal,
6 and local governments and nongovernmental entities,
7 including educational and risk communication pro-
8 grams to discourage development in high-risk areas.

9 “(4) Activities to support the development of
10 regional tsunami hazard and risk assessments, using
11 inundation models that meet programmatic stand-
12 ards for accuracy. Such regional risk assessments
13 may include the following:

14 “(A) The sources, sizes, and histories of
15 tsunami in that region.

16 “(B) Inundation models and maps of crit-
17 ical infrastructure and socioeconomic vulner-
18 ability in areas subject to tsunami inundation.

19 “(C) Maps of evacuation areas and evacu-
20 ation routes.

21 “(D) Evaluations of the size of populations
22 that will require evacuation, including popu-
23 lations with special evacuation needs.

24 “(5) Activities to support the development of
25 community-based outreach and education programs

1 to ensure community readiness and resilience, in-
2 cluding the following:

3 “(A) The development, implementation,
4 and assessment of technical training and public
5 education programs, including education pro-
6 grams that address unique characteristics of
7 distant and near-field tsunami.

8 “(B) The development of decision support
9 tools.

10 “(C) The incorporation of social science re-
11 search into community readiness and resilience
12 efforts.

13 “(D) The development of evidence-based
14 education guidelines.

15 “(6) Dissemination of guidelines and standards
16 for community planning, education, and training
17 products, programs, and tools, including standards
18 for—

19 “(A) mapping products;

20 “(B) inundation models; and

21 “(C) effective emergency exercises.

22 “(c) AUTHORIZED ACTIVITIES.—In addition to activi-
23 ties conducted under subsection (b), the program con-
24 ducted pursuant to subsection (a) may include the fol-
25 lowing:

1 “(1) Multidisciplinary vulnerability assessment
2 research, education, and training to help integrate
3 risk management and resilience objectives with com-
4 munity development planning and policies.

5 “(2) Risk management training for local offi-
6 cials and community organizations to enhance un-
7 derstanding and preparedness.

8 “(3) Development of practical applications for
9 existing or emerging technologies, such as modeling,
10 remote sensing, geospatial technology, engineering,
11 and observing systems.

12 “(4) Risk management, risk assessment, and
13 resilience data and information services, including—

14 “(A) access to data and products derived
15 from observing and detection systems; and

16 “(B) development and maintenance of new
17 integrated data products to support risk man-
18 agement, risk assessment, and resilience pro-
19 grams.

20 “(5) Risk notification systems that coordinate
21 with and build upon existing systems and actively
22 engage decisionmakers, local and State government
23 agencies, business communities, nongovernmental or-
24 ganizations, and the media.

25 “(d) NO PREEMPTION.—

1 “(1) DESIGNATION OF AT-RISK AREAS.—The
2 establishment of national standards for inundation
3 models under this section shall not prevent States,
4 territories, tribes, and local governments from designating additional areas as being at risk based on
5 knowledge of local conditions.
6

7 “(2) NO NEW REGULATORY AUTHORITY.—
8 Nothing in this Act may be construed as establishing new regulatory authority for any Federal
9 agency.”.
10

11 (b) REPORT ON ACCREDITATION OF TSUNAMIREADY
12 PROGRAM.—Not later than 180 days after the date of enactment of this Act, the Administrator of the National
13 Oceanic and Atmospheric Administration shall submit to
14 the Committee on Commerce, Science, and Transportation
15 of the Senate and the Committee on Science, Space, and
16 Technology of the House of Representatives a report on
17 which authorities and activities would be needed to have
18 the TsunamiReady program of the National Weather
19 Service accredited by the Emergency Management Accreditation Program.
20
21

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

23 Section 6 (33 U.S.C. 3205) is amended—

24 (1) in the matter before paragraph (1), by
25 striking “The Administrator shall” and all that fol-

1 lows through “establish or maintain” and inserting
2 the following:

3 “(a) IN GENERAL.—The Administrator shall, in con-
4 sultation with such other Federal agencies, State and ter-
5 ritorial governments, and academic institutions as the Ad-
6 ministrator considers appropriate, the coordinating com-
7 mittee under section 11(b), and the panel under section
8 8(a), support or maintain”;

9 (2) by striking “and assessment for tsunami
10 tracking and numerical forecast modeling. Such re-
11 search program shall—” and inserting the following:
12 “assessment for tsunami tracking and numerical
13 forecast modeling, and standards development.

14 “(b) RESPONSIBILITIES.—The research program
15 supported or maintained pursuant to subsection (a)
16 shall—”;

17 (3) in subsection (b), as designated by para-
18 graph (2)—

19 (A) by amending paragraph (1) to read as
20 follows:

21 “(1) consider other appropriate research to
22 mitigate the impact of tsunami, including the im-
23 provement of near-field tsunami detection and fore-
24 casting capabilities, which may include use of new
25 generation Deep-ocean Assessment and Reporting of

1 Tsunamis and National Oceanic and Atmospheric
2 Administration supercomputer capacity to develop a
3 rapid tsunami forecast for all United States coast-
4 lines;”;

5 (B) in paragraph (3)—

6 (i) by striking “include” and inserting
7 “conduct”; and

8 (ii) by striking “and” at the end;

9 (C) by redesignating paragraph (4) as
10 paragraph (5); and

11 (D) by inserting after paragraph (3) the
12 following:

13 “(4) develop the technical basis for validation of
14 tsunami maps, numerical tsunami models, digital
15 elevation models, and forecasts; and”; and

16 (4) by adding at the end the following:

17 “(c) PILOT PROJECT.—The Administrator may, pur-
18 suant to subsection (b), develop a pilot project for near-
19 field tsunami forecast development for the Cascadia region
20 along the west coast of the United States using new gen-
21 eration Deep-ocean Assessment and Reporting of
22 Tsunamis, upcoming and existing cable networks, and new
23 National Centers for Environmental Protection modeling
24 capability.”.

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

3 Section 7 (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 the international efforts to develop a
17 fully functional global tsunami forecast and warning sys-
18 tem comprised of regional tsunami warning networks.”;

19 (2) in subsection (b), by striking “shall” and
20 inserting “may”; and

21 (3) in subsection (c)—

22 (A) in paragraph (1), by striking “estab-
23 lishing” and inserting “supporting”; and

24 (B) in paragraph (2)—

25 (i) by striking “establish” and insert-
26 ing “support”; and

1 (ii) by striking “establishing” and in-
2 serting “supporting”.

3 **SEC. 8. TSUNAMI SCIENCE AND TECHNOLOGY ADVISORY**
4 **PANEL.**

5 The Act is further amended—

6 (1) by redesignating section 8 (33 U.S.C. 3207)
7 as section 9; and

8 (2) by inserting after section 7 (33 U.S.C.
9 3206) the following:

10 **“SEC. 8. TSUNAMI SCIENCE AND TECHNOLOGY ADVISORY**
11 **PANEL.**

12 “(a) DESIGNATION.—The Administrator shall des-
13 ignate the Ocean Exploration Advisory Working Group
14 within the Science Advisory Board of the Administration
15 to serve as the Tsunami Science and Technology Advisory
16 Panel to provide advice to the Administrator on matters
17 regarding tsunami science, technology, and regional pre-
18 paredness.

19 “(b) MEMBERSHIP.—

20 “(1) COMPOSITION.—The working group des-
21 ignated under subsection (a) shall be composed of no
22 fewer than 7 members selected by the Administrator
23 from among individuals from academia or State
24 agencies who have academic or practical expertise in
25 physical sciences, social sciences, information tech-

1 nology, coastal resilience, emergency management,
2 or such other disciplines as the Administrator con-
3 siders appropriate.

4 “(2) FEDERAL EMPLOYMENT.—No member of
5 the working group designated pursuant to subsection
6 (a) may be a Federal employee.

7 “(c) RESPONSIBILITIES.—Not less frequently than
8 once every 4 years, the working group designated under
9 subsection (a) shall—

10 “(1) review the activities of the Administration,
11 and other Federal activities as appropriate, relating
12 to tsunami research, detection, forecasting, warning,
13 mitigation, resiliency, and preparation; and

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

16 “(A) the findings of the working group
17 with respect to the most recent review con-
18 ducted pursuant to paragraph (1); and

19 “(B) such recommendations for legislative
20 or administrative action as the working group
21 considers appropriate to improve Federal tsu-
22 nami research, detection, forecasting, warning,
23 mitigation, resiliency, and preparation.

24 “(d) REPORTS TO CONGRESS.—Not less frequently
25 than once every 4 years, the Administrator shall submit

1 to the Committee on Commerce, Science, and Transpor-
2 tation of the Senate, and the Committee on Science,
3 Space, and Technology of the House of Representatives
4 a report on the findings and recommendations received by
5 the Administrator under subsection (c)(2).”.

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 shall
10 submit to Congress a report on the implementation of the
11 Tsunami Warning and Education Act (33 U.S.C. 3201 et
12 seq.).

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

15 (1) A detailed description of the progress made
16 in implementing sections 4(d)(6), 5(b)(6), and
17 6(b)(4) of the Tsunami Warning and Education Act.

18 (2) A description of the ways that tsunami
19 warnings and warning products issued by the Tsu-
20 nami Forecasting and Warning Program established
21 under section 4 of the Tsunami Warning and Edu-
22 cation Act (33 U.S.C. 3203) can be standardized
23 and streamlined with warnings and warning prod-
24 ucts for hurricanes, coastal storms, and other coast-
25 al flooding events.

1 **SEC. 10. AUTHORIZATION OF APPROPRIATIONS.**

2 Section 9 of the Act, as redesignated by section
3 8(a)(1) of this Act, is amended to read as follows:

4 **“SEC. 9. AUTHORIZATION OF APPROPRIATIONS.**

5 “There are authorized to be appropriated to the Ad-
6 ministrator to carry out this Act \$27,000,000 for each of
7 fiscal years 2015 through 2017, of which—

8 “(1) not less than 27 percent of the amount ap-
9 propriated for each fiscal year shall be for activities
10 under the National Tsunami Hazard Mitigation Pro-
11 gram under section 5; and

12 “(2) not less than 8 percent of the amount ap-
13 propriated for each fiscal year shall be for the Tsu-
14 nami Research Program under section 6.”.

15 **SEC. 11. OUTREACH RESPONSIBILITIES.**

16 (a) IN GENERAL.—The Administrator of the Na-
17 tional Oceanic and Atmospheric Administration, in coordi-
18 nation with State and local emergency managers, shall de-
19 velop and carry out formal outreach activities to improve
20 tsunami education and awareness and foster the develop-
21 ment of resilient communities. Outreach activities may in-
22 clude—

23 (1) the development of outreach plans to ensure
24 the close integration of tsunami warning centers
25 supported or maintained pursuant to section 4(d) of
26 the Tsunami Warning and Education Act (33

1 U.S.C. 3203(d)) with local Weather Forecast Offices
2 of the National Weather Service and emergency
3 managers;

4 (2) working with appropriate local Weather
5 Forecast Offices to ensure they have the technical
6 knowledge and capability to disseminate tsunami
7 warnings to the communities they serve; and

8 (3) evaluating the effectiveness of warnings and
9 of coordination with local Weather Forecast Offices
10 after significant tsunami events.

11 (b) COORDINATING COMMITTEE OF THE NATIONAL
12 TSUNAMI HAZARD MITIGATION PROGRAM.—

13 (1) IN GENERAL.—The Administrator shall con-
14 vene a coordinating committee to assist the Adminis-
15 trator in the conduct of the program required by
16 section 5(a) of the Tsunami Warning and Education
17 Act (33 U.S.C. 3204(a)).

18 (2) COMPOSITION.—The coordinating com-
19 mittee shall be composed of members from each of
20 the States at risk from tsunami, and any other such
21 representatives as the Administrator considers ap-
22 propriate to represent Federal, State, tribal, terri-
23 torial, and local governments.

1 (3) SUBCOMMITTEES.—The Administrator may
2 approve the formation of subcommittees to address
3 specific program components or regional issues.

4 (4) RESPONSIBILITIES.—The coordinating com-
5 mittee shall—

6 (A) provide feedback on how funds should
7 be prioritized to carry out the program required
8 by section 5(a) of the Tsunami Warning and
9 Education Act (33 U.S.C. 3204(a));

10 (B) ensure that areas described in section
11 4(c) of the Tsunami Warning and Education
12 Act (33 U.S.C. 3203(c)) in the United States
13 and its territories have the opportunity to par-
14 ticipate in the program;

15 (C) provide recommendations to the Ad-
16 ministrator on how to improve and continuously
17 advance the TsunamiReady program, particu-
18 larly on ways to make communities more tsu-
19 nami resilient through the use of inundation
20 maps and models and other hazard mitigation
21 practices; and

22 (D) ensure that all components of the pro-
23 gram required by section 5(a) of the Tsunami
24 Warning and Education Act (33 U.S.C.
25 3204(a)) are integrated with ongoing State-

1 based hazard warning, risk management, and
2 resilience activities, including—

3 (i) integrating activities with emer-
4 gency response plans, disaster recovery,
5 hazard mitigation, and community develop-
6 ment programs in affected areas; and

7 (ii) integrating information to assist
8 in tsunami evacuation route planning.

Passed the House of Representatives September 8,
2014.

Attest:

KAREN L. HAAS,

Clerk.