

**AMENDMENT TO H.R. 2407**  
**OFFERED BY MR. BAIRD OF WASHINGTON AND**  
**MR. INGLIS OF SOUTH CAROLINA**

Page 3, after line 7, insert the following new section  
(and redesignate the subsequent sections accordingly):

1 **SEC. 4. INTERAGENCY DEVELOPMENT OF A NATIONAL CLI-**  
2 **MATE SERVICE.**

3 (a) IN GENERAL.—The President shall—  
4 (1) initiate a process within 30 days after the  
5 date of enactment of this Act through the Com-  
6 mittee on Environment and Natural Resources of  
7 the National Science and Technology Council and  
8 led by the Director of the Office of Science and  
9 Technology Policy, to evaluate alternative structures  
10 to support a collaborative, interagency research and  
11 operational program that will achieve the goal of  
12 meeting the needs of decisionmakers in—

- 13 (A) Federal agencies;  
14 (B) State, local, and tribal governments;  
15 (C) regional entities and other stakeholders  
16 and users,  
17 for reliable, timely, and relevant information related  
18 to climate variability and change;

1           (2) within 1 year after the date of enactment  
2 of this Act complete pursuant to subsection (b) a  
3 survey of the needs of current and future users of  
4 information related to climate variability and  
5 change;

6           (3) within 2 years after the date of enactment  
7 of this Act report to Congress under subsection (c)  
8 the results of the evaluation described in paragraph  
9 (1) and provide a plan to establish a collaborative,  
10 interagency research and operational program to de-  
11 liver information related to climate variability and  
12 change to all users; and

13           (4) within 3 years after the date of enactment  
14 of this Act, and after delivery of the report to Con-  
15 gress required under paragraph (3), establish a Na-  
16 tional Climate Service, based upon the information  
17 obtained through the process described in paragraph  
18 (1), that meets the goal described in paragraph (1).

19 (b) SURVEY OF NEED FOR CLIMATE SERVICES.—

20           (1) IN GENERAL.—The Director of the Office of  
21 Science and Technology Policy, through the Com-  
22 mittee on Environment and Natural Resources, shall  
23 provide a report to Congress within 1 year after the  
24 date of enactment of this Act that compiles informa-  
25 tion on the current climate products being delivered

1 by each Federal agency and its partner organiza-  
2 tions to users and stakeholders, and on the needs of  
3 users and stakeholders for new climate products and  
4 services.

5 (2) CONTENTS OF THE REPORT.—The report  
6 shall identify—

7 (A) specific user groups and stakeholders  
8 that currently are served by each Federal agen-  
9 cy and its partner organizations;

10 (B) the type of climate products and serv-  
11 ices currently delivered to specific users groups  
12 and stakeholders, and the specific Federal agen-  
13 cy office, program, or partner organization that  
14 delivers these products and services;

15 (C) potential user groups and stakeholders  
16 that may be served by expanding climate prod-  
17 ucts and services;

18 (D) specific needs for new climate products  
19 and services to be delivered by each Federal  
20 agency and its partner organizations identified  
21 by user groups and stakeholders;

22 (E) a characterization of the different user  
23 and stakeholder groups that were surveyed by  
24 each Federal agency; and

1 (F) a list of non-Federal entities that de-  
2 liver climate products and services.

3 (c) REPORT TO CONGRESS.—

4 (1) IN GENERAL.—Within 2 years after the  
5 date of enactment of this Act, the Director of the  
6 Office of Science and Technology Policy shall report  
7 to the President and the Congress on a proposal,  
8 prepared through the Committee on Environment  
9 and Natural Resources, to establish and operate a  
10 National Climate Service. The report shall include—

11 (A) a description of the alternative struc-  
12 tures considered;

13 (B) a description of the structure proposed  
14 for a National Climate Service, including a dis-  
15 cussion of the benefits of this structure as com-  
16 pared to the alternatives considered;

17 (C) designation of a specific office or agen-  
18 cy that will lead the National Climate Service  
19 and that shall be accountable for the daily oper-  
20 ation of the National Climate Service;

21 (D) a description of the role and capability  
22 of each Federal agency, including a list of all  
23 entities within each agency or supported with  
24 agency funds that currently provide or may pro-  
25 vide climate products or services;

1 (E) a description of the mechanisms that  
2 will be used to ensure ongoing communication  
3 and information exchange among the Federal  
4 agencies and between Federal agencies and  
5 their respective user and stakeholder commu-  
6 nities including—

7 (i) mechanisms to facilitate ongoing  
8 dialogue with non-Federal organizations  
9 providing climate services;

10 (ii) mechanisms to facilitate ongoing  
11 dialogue with regional, State, local, and  
12 tribal governments, the private sector, and  
13 other users and stakeholders on the devel-  
14 opment and delivery of climate services;

15 (iii) mechanisms to collect informa-  
16 tion, observations, and other data relevant  
17 for improving climate products and serv-  
18 ices; and

19 (iv) designation of points of contact  
20 for each Federal agency with responsibil-  
21 ities to deliver climate services;

22 (F) a detailed description of the processes  
23 and procedures that will be necessary to coordi-  
24 nate observations and information collection by  
25 different Federal agencies to ensure the com-

1 patibility of information and to facilitate data  
2 and information exchange among Federal agen-  
3 cies and with non-Federal entities, and a des-  
4 ignation of the agency or agencies that would  
5 be responsible for ongoing oversight of these  
6 functions;

7 (G) a detailed description of how research  
8 findings and climate impact assessments pro-  
9 duced through the United States Global Change  
10 Research Program and the other activities un-  
11 dertaken within the United States Global  
12 Change Research Program would be integrated  
13 with the activities undertaken by a National  
14 Climate Service;

15 (H) a list of the existing observation and  
16 monitoring systems or programs operated by  
17 each Federal agency that provide data, observa-  
18 tions, and other information that may be used  
19 to develop or improve climate products and  
20 services;

21 (I) a description of new infrastructure,  
22 equipment, personnel or other resources, by  
23 agency, that may be needed to achieve the goals  
24 of a National Climate Service, and the time pe-

1           riod over which these new resources will be allo-  
2           cated;

3           (J) an identification of the activities that  
4           may be undertaken in cooperation with inter-  
5           national partners;

6           (K) the mechanisms established to provide  
7           quality assurance and quality control of climate  
8           service products and services, and the agency or  
9           agencies designated to conduct and oversee  
10          these mechanisms;

11          (L) an identification of non-Federal enti-  
12          ties that provide climate products and services,  
13          and a description of the relationship envisioned  
14          between a National Climate Service and the  
15          non-Federal entities providing climate services;  
16          and

17          (M) responses to the comments received  
18          during the public comment period.

19          (2) DRAFT REPORT.—Prior to the submission  
20          of the final report, the Director of the Office of  
21          Science and Technology Policy shall publish a draft  
22          report in the Federal Register with a comment pe-  
23          riod of at least 30 days.

24          (3) CONSULTATION.—In developing the report,  
25          the Director of the Office of Science and Technology

1 Policy shall consult with State, local, and tribal gov-  
2 ernments, regional entities, the private sector, and  
3 other users and stakeholder groups, and Congress.

4 (d) ANNUAL REPORT.—The Director of the Office of  
5 Science and Technology Policy shall transmit to the Con-  
6 gress at the time of the President's fiscal year 2013 budg-  
7 et request, and annually thereafter, a report on the annual  
8 anticipated cost of carrying out the research and oper-  
9 ational activities of the National Climate Service, with a  
10 description of the budget for each Federal agency's activi-  
11 ties.



**AMENDMENT TO H.R. 2407**

**OFFERED BY MR. GORDON OF TENNESSEE**

Page 1, line 8, insert “and to define the activities to be undertaken” after “Climate Service”.

Page 2, line 2, strike “and regional” and insert “, regional, and local”.

In sections 4, 5, and 9, strike “National Climate Service” each place it appears and insert “Climate Service Program”.

Page 3, line 12, strike “establish the” and insert “establish a”.

Page 3, line 15, insert “and shall appoint a Director of the Office to collaborate with the leadership of the National Oceanic and Atmospheric Administration line offices to perform the duties assigned to the Office” after “Climate Service Office”.

Page 3, line 20, insert “global,” after “information on”.

Page 4, line 2, insert “products and” after “improving climate”.

Page 4, line 12, strike “climate services and”.

Page 4, line 15, strike “by” and insert “including at a minimum”.

Page 4, line 20, insert “data and” after “dissemination of”.

Page 5, line 5, insert “products and” after “of climate”.

Page 5, lines 9 and 10, strike “climate and weather” and insert “weather and climate”.

Page 5, line 15, insert “regional entities,” after “tribal governments,”.

Page 6, line 16, strike “offices of State climatologists” and insert “State Climate Offices”.

Page 7, line 12, insert “, State Climate Offices, Regional Climate Offices, and other users and stakeholders” after “academic community”.

Page 9, lines 16 and 17, strike “regional,”.

Page 9, line 18, insert “regional entities,” after “local governments,”.

Page 9, line 23, strike “SERVICE” and insert “PROGRAM”.

Page 10, line 18, strike “users; and” and insert “users and other stakeholders;”.

Page 10, line 25, strike the period and insert “; and”.

Page 10, after line 25, add the following new subparagraph:

1                   (F) develop tools to facilitate the use of cli-  
2                   mate information by local and regional stake-  
3                   holders.

Page 14, lines 24 and 25, strike “The Under Secretary shall establish” and insert “In maintaining the network of”.

Page 15, line 1, strike “through” and insert “under section 4(c)(3), the Under Secretary shall utilize”.

Page 15, lines 9 and 10, strike “for an amount up to \$300,000 per year”.

Page 15, line 20, insert “research” after “non-governmental”.

Page 16, lines 9 and 10, strike “ecological, economic, and social systems” and insert “ecology, economy, infrastructure, and communities”.

Page 16, line 13, strike “6 months” and insert “9 months”.

Page 17, line 21, strike “6 months” and insert “1 year”.

Page 19, line 4, strike “and”.

Page 19, line 7, strike the period and insert “; and”.

Page 19, after line 7, add the following new paragraph:

- 1 (7) include responses to the comments received
- 2 during the public comment period.



**AMENDMENT TO H.R. 2407**

**OFFERED BY MR. SMITH OF NEBRASKA**

Page 9, line 14, strike “impacts; and” and insert “effects;”.

Page 9, line 16, strike “impacts” and insert “effects”.

Page 9, after line 19, insert the following:

- 1 (vi) coordinate with State Climate Of-
- 2 fices and RISA teams to assess manage-
- 3 ment practices and technologies, and the
- 4 effects of both, used for drought mitigation
- 5 at the local, State, and regional levels; and



**AMENDMENT TO H.R. 2407**  
**OFFERED BY MR. EHLERS OF MICHIGAN**

Page 9, after line 22, insert the following (and re-designate subsequent provisions accordingly):

1           (5) MISSION.—The Under Secretary shall en-  
2           sure that the core functions and missions of the Na-  
3           tional Weather Service, the National Integrated  
4           Drought Information System, and any other pro-  
5           grams within the National Oceanic and Atmospheric  
6           Administration are not diminished or neglected by  
7           the establishment of the Climate Service Program or  
8           the duties imposed on such offices or programs  
9           under this subsection.



**AMENDMENT TO H.R. 2407**

**OFFERED BY MR. INGLIS OF SOUTH CAROLINA**

Page 19, line 15, insert “State Climate Offices, Regional Climate Centers,” after “and stakeholders”.

Page 19, after line 16, insert the following:

1       (f) COORDINATION WITH INTERAGENCY DEVELOP-  
2       MENT OF A NATIONAL CLIMATE SERVICE.—In preparing  
3       the plan required under this section, the Under Secretary  
4       shall consult with the Director of the Office of Science  
5       and Technology Policy to ensure that the program devel-  
6       oped by the Agency will serve the needs of a National Cli-  
7       mate Service.



**AMENDMENT TO H.R. 2407**  
**OFFERED BY MS. EDDIE BERNICE JOHNSON OF**  
**TEXAS**

At the end of the bill, add the following new section:

1 **SEC. 10. SUMMER INSTITUTES PROGRAM AT THE RE-**  
2 **GIONAL CLIMATE CENTERS.**

3 (a) **DEFINITIONS.**—In this section:

4 (1) **SUMMER INSTITUTE.**—The term “summer  
5 institute” means an institute, operated during the  
6 summer, that—

7 (A) is hosted by a Regional Climate Center  
8 or an eligible partner;

9 (B) is operated for a period of not less  
10 than 2 weeks; and

11 (C) provides direct interaction of middle  
12 school and high school teacher and under-  
13 graduate student participants with personnel of  
14 the Regional Climate Centers or eligible part-  
15 ners who have scientific expertise in weather  
16 and climate.

17 (2) **ELIGIBLE PARTNER.**—The term “eligible  
18 partner” means—

1 (A) the science, engineering, or mathe-  
2 matics department at an institution of higher  
3 education; or

4 (B) a nonprofit entity with expertise in  
5 providing educational enrichment experiences  
6 for students.

7 (b) SUMMER INSTITUTES PROGRAM AUTHORIZED.—

8 (1) IN GENERAL.—The Under Secretary shall  
9 establish a summer institutes program, to be con-  
10 ducted in cooperation with the Regional Climate  
11 Centers, which may include an eligible partner. The  
12 purpose of the program is to provide training and  
13 professional enrichment by providing opportunities  
14 for interaction between participants and climate sci-  
15 entists in a research and operational setting to—

16 (A) enable middle school and high school  
17 teachers to integrate weather and climate  
18 sciences into their curricula; and

19 (B) encourage undergraduate students to  
20 pursue further study and careers in weather  
21 and climate sciences.

22 (2) REQUIRED ACTIVITIES.—Funds authorized  
23 under this section shall be used for—

24 (A) providing educational opportunities for  
25 middle school and high school teachers and un-

1           dergraduate students not achievable inside the  
2           classroom;

3           (B) exposing such teachers and students to  
4           researchers, scientists, or engineers who can  
5           demonstrate their daily activities to the teach-  
6           ers and students;

7           (C) exposing teachers and students to sci-  
8           entific methods in a research discovery setting;  
9           and

10          (D) assisting teachers with curriculum de-  
11          velopment in the areas of weather and climate  
12          science.

13          (c) PRIORITY.—The Under Secretary shall ensure  
14          that each summer institute program authorized under  
15          subsection (b) includes students from groups underrep-  
16          resented in the fields of science, technology, engineering,  
17          and mathematics teaching, including women and members  
18          of minority groups.

19          (d) REPORT TO CONGRESS.—The Under Secretary  
20          shall submit to Congress a biennial report on the activities  
21          conducted under this section, including the number of par-  
22          ticipants and the new curricula developed in atmospheric  
23          and climate sciences.



**AMENDMENT TO H.R. 2407**  
**OFFERED BY MS. FUDGE OF OHIO**

At the end of the bill, add the following new section:

1 **SEC. 10. CLEARINGHOUSE OF FEDERAL CLIMATE SERVICE**  
2 **PRODUCTS AND LINKS TO FEDERAL AGEN-**  
3 **CIES PROVIDING CLIMATE SERVICES.**

4 (a) **IN GENERAL.**—The Under Secretary shall estab-  
5 lish and maintain a clearinghouse to inform State, local,  
6 and tribal governments and the public about the informa-  
7 tion and services available to—

8 (1) assess the impacts of climate variability and  
9 change at different geographic scales;

10 (2) characterize and forecast climate variability  
11 and change for specific regions, resources, and eco-  
12 nomic sectors; and

13 (3) develop and implement adaptation strategies  
14 to reduce vulnerabilities to climate variability and  
15 change.

16 (b) **OTHER RESOURCES.**—The clearinghouse shall in-  
17 clude hyperlinks to Internet sites that describe the activi-  
18 ties, information, and resources of—

19 (1) the Federal Government;

20 (2) State and local governments;

- 1 (3) the private sector;
- 2 (4) nongovernmental and nonprofit entities and
- 3 organizations; and
- 4 (5) international organizations.



**AMENDMENT TO H.R. 2407**  
**OFFERED BY MR. HALL OF TEXAS**

At the end of the bill add the following new section:

1 **SEC. 10. FINANCIAL BURDEN.**

2       Nothing in this Act shall be construed as authorizing  
3 the National Climate Service or the Climate Service Pro-  
4 gram at the National Oceanic and Atmospheric Adminis-  
5 tration to require State, tribal, or local governments to  
6 develop adaptation or response plans or to take any other  
7 action in response to variations in climate that may result  
8 in an increased financial burden to such governments.

