#### 110TH CONGRESS 1ST SESSION

# S. 2204

To assist wildlife populations and wildlife habitats in adapting to and surviving the effects of global warming, and for other purposes.

#### IN THE SENATE OF THE UNITED STATES

OCTOBER 18, 2007

Mr. Whitehouse (for himself and Mrs. Boxer) introduced the following bill; which was read twice and referred to the Committee on Environment and Public Works

# A BILL

To assist wildlife populations and wildlife habitats in adapting to and surviving the effects of global warming, 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; TABLE OF CONTENTS.
- 4 (a) Short Title.—This Act may be cited as the
- 5 "Global Warming Wildlife Survival Act".
- 6 (b) Table of Contents.—The table of contents of
- 7 this Act is as follows:
  - Sec. 1. Short title; table of contents.
  - Sec. 2. Definitions.

Sec. 101. Definitions.

Subtitle A-National Policy and Strategy for Wildlife

- Sec. 111. National policy on wildlife and global warming.
- Sec. 112. National strategy.
- Sec. 113. Advisory Board; National Global Warming and Wildlife Science Center.
- Sec. 114. Authorization of appropriations.

Subtitle B—State and Tribal Wildlife Grants Program

Sec. 121. State and tribal wildlife grants program.

#### TITLE II—OCEAN PROGRAMS

- Sec. 201. Short title.
- Sec. 202. Findings.
- Subtitle A—National Policy for Ocean, Coastal, and Great Lakes Ecosystem
  Health and Resiliency
- Sec. 211. National policy on ocean, coastal, and great lakes ecosystem health and resiliency.
- Sec. 212. National ocean, coastal, and Great Lakes resiliency strategy.
- Sec. 213. Advisory Board.
- Sec. 214. Implementation of national strategy.
- Sec. 215. Reports.
- Sec. 216. Authorization of appropriations.

Subtitle B—Planning for Climate Change in Coastal Zone

Sec. 221. Planning for climate change in coastal zone.

#### TITLE III—SPECIAL IMPERILED SPECIES PROGRAMS

- Sec. 301. Definitions.
- Sec. 302. Regional ecological symposia.
- Sec. 303. National Academy of Sciences report.

#### SEC. 2. DEFINITIONS.

- 2 In this Act:
- 3 (1) Ecological processes.—
- 4 (A) IN GENERAL.—The term "ecological
- 5 processes" means the biological, chemical, and
- 6 physical interactions between the biotic and abi-
- 7 otic components of an ecosystem.

| 1  | (B) Inclusions.—The term "ecological               |
|----|--|
| 2  | processes" includes—                               |
| 3  | (i) nutrient cycling;                              |
| 4  | (ii) pollination;                                  |
| 5  | (iii) predator-prey relationships;                 |
| 6  | (iv) soil formation;                               |
| 7  | (v) gene flow;                                     |
| 8  | (vi) hydrologic cycling;                           |
| 9  | (vii) decomposition; and                           |
| 10 | (viii) disturbance regimes, such as fire           |
| 11 | and flooding.                                      |
| 12 | (2) Habitat.—                                      |
| 13 | (A) In General.—The term "habitat"                 |
| 14 | means the physical, chemical, and biological       |
| 15 | properties that are used by wildlife for growth,   |
| 16 | reproduction, and survival.                        |
| 17 | (B) Inclusions.—The term "habitat" in-             |
| 18 | cludes aquatic and terrestrial plant commu-        |
| 19 | nities, food, water, cover, and space on a tract   |
| 20 | of land, in a body of water, or in an area or re-  |
| 21 | gion.  |
| 22 | (3) Indian tribe.—The term "Indian tribe"          |
| 23 | has the meaning given the term in section 4 of the |
| 24 | Indian Self-Determination and Education Assistance |
| 25 | Act (25 U.S.C. 450b).                              |

| 1  | (4) WILDLIFE.—The term "wildlife" means—          |
|----|---|
| 2  | (A) any species of wild, free-ranging fauna       |
| 3  | including fish and other aquatic species; and     |
| 4  | (B) any fauna in a captive breeding pro-          |
| 5  | gram the object of which is to reintroduce indi-  |
| 6  | viduals of a depleted indigenous species into     |
| 7  | previously occupied range.                        |
| 8  | TITLE I—NATURAL RESOURCES                         |
| 9  | AND WILDLIFE PROGRAMS                             |
| 10 | SEC. 101. DEFINITIONS.                            |
| 11 | In this title:                                    |
| 12 | (1) Advisory Board.—The term "Advisory            |
| 13 | Board" means the Advisory Board established under |
| 14 | section 113(a).                                   |
| 15 | (2) Habitat Linkage.—The term "habitat            |
| 16 | linkage" means an area that—                      |
| 17 | (A) connects wildlife habitat or potential        |
| 18 | wildlife habitat; and                             |
| 19 | (B) facilitates the ability of wildlife to        |
| 20 | move within a landscape in response to the ef-    |
| 21 | fects of global warming.                          |
| 22 | (3) National Strategy.—The term "national         |
| 23 | strategy" means the national strategy established |
| 24 | under section 112                                 |

| 1  | (4) Secretary.—The term "Secretary" means                 |
|----|---|
| 2  | the Secretary of the Interior.                            |
| 3  | Subtitle A—National Policy and                            |
| 4  | Strategy for Wildlife                                     |
| 5  | SEC. 111. NATIONAL POLICY ON WILDLIFE AND GLOBAL          |
| 6  | WARMING.  |
| 7  | It is the policy of the Federal Government, in co-        |
| 8  | operation with State, tribal, and affected local govern-  |
| 9  | ments, other concerned public and private organizations,  |
| 10 | landowners, and citizens to use all practicable means and |
| 11 | measures—   |
| 12 | (1) to assist wildlife populations and wildlife           |
| 13 | habitats in adapting to and surviving the effects of      |
| 14 | global warming; and                                       |
| 15 | (2) to ensure the persistence and resilience of           |
| 16 | the wildlife of the United States, together with wild-    |
| 17 | life habitat, as an essential part of the culture, land-  |
| 18 | scape, and natural resources of the United States.        |
| 19 | SEC. 112. NATIONAL STRATEGY.                              |
| 20 | (a) Requirement.—   |
| 21 | (1) In general.—Not later than 2 years after              |
| 22 | the date of enactment of this Act, the Secretary          |
| 23 | shall implement the national policy under section         |
| 24 | 111 by establishing a national strategy for assisting     |

| 1  | wildlife populations and wildlife habitats in adapting |
|----|--|
| 2  | to the impact of global warming.                       |
| 3  | (2) Administration.—In establishing the na-            |
| 4  | tional strategy, the Secretary shall—                  |
| 5  | (A) base the national strategy on the best             |
| 6  | available science, as provided by the Advisory         |
| 7  | Board;   |
| 8  | (B) develop the national strategy in co-               |
| 9  | operation with State fish and wildlife agencies        |
| 10 | and Indian tribes;                                     |
| 11 | (C) consult with—                                      |
| 12 | (i) the Secretary of Agriculture;                      |
| 13 | (ii) the Secretary of Commerce;                        |
| 14 | (iii) the Administrator of the Environ-                |
| 15 | mental Protection Agency;                              |
| 16 | (iv) local governments;                                |
| 17 | (v) conservation organizations;                        |
| 18 | (vi) scientists; and                                   |
| 19 | (vii) other interested stakeholders;                   |
| 20 | and  |
| 21 | (D) provide public notice and opportunity              |
| 22 | for comment.   |
| 23 | (b) Contents.—   |
| 24 | (1) In general.—The Secretary shall include            |
| 25 | in the national strategy prioritized goals and meas-   |

| 1  | ures and a plan for implementation (including a   |
|----|---|
| 2  | timeframe)—                                       |
| 3  | (A) to identify and monitor wildlife popu-        |
| 4  | lations, including game species, that are likely  |
| 5  | to be adversely affected by global warming, with  |
| 6  | particular emphasis on wildlife populations with  |
| 7  | the greatest need for conservation;               |
| 8  | (B) to identify and monitor coastal, ma-          |
| 9  | rine, terrestrial, and fresh water habitats that  |
| 10 | are at the greatest risk of being damaged by      |
| 11 | global warming;                                   |
| 12 | (C) assist species in adapting to the impact      |
| 13 | of global warming;                                |
| 14 | (D) protect, acquire, and restore wildlife        |
| 15 | habitat to build resilience to global warming;    |
| 16 | (E) provide habitat linkages and corridors        |
| 17 | to facilitate wildlife movements in response to   |
| 18 | global warming;                                   |
| 19 | (F) restore and protect ecological processes      |
| 20 | that sustain wildlife populations that are vul-   |
| 21 | nerable to global warming; and                    |
| 22 | (G) incorporate consideration of climate          |
| 23 | change in, and integrate climate change adapta-   |
| 24 | tion strategies for wildlife and wildlife habitat |
| 25 | into, the planning and management of Federal      |

| 1  | land administered by the Department of the In-             |
|----|--|
| 2  | terior and land administered by the Forest                 |
| 3  | Service.   |
| 4  | (2) Coordination with other plans.—In                      |
| 5  | developing the national strategy, the Secretary shall,     |
| 6  | to the maximum extent practicable—                         |
| 7  | (A) take into consideration research and                   |
| 8  | information contained in—                                  |
| 9  | (i) State comprehensive wildlife con-                      |
| 10 | servation plans;   |
| 11 | (ii) the North American Waterfowl                          |
| 12 | Management Plan;   |
| 13 | (iii) the National Fish Habitat Action                     |
| 14 | Plan; and  |
| 15 | (iv) other relevant plans; and                             |
| 16 | (B) coordinate and integrate, to the extent                |
| 17 | consistent with the policy established under sec-          |
| 18 | tion 111, the goals and measures identified in             |
| 19 | the national strategy with goals and measures              |
| 20 | identified in those plans.                                 |
| 21 | (c) REVISIONS.—Not later than 5 years after the            |
| 22 | date of the initial establishment of the national strategy |
| 23 | and every 10 years thereafter, the Secretary shall revise  |
| 24 | the national strategy to reflect—                          |

| 1  | (1) new information on the impact of global              |
|----|--|
| 2  | warming on wildlife and wildlife habitat; and            |
| 3  | (2) advances in the development of strategies            |
| 4  | for adapting to or mitigating the impact.                |
| 5  | (d) Implementation.—                                     |
| 6  | (1) Implementation on federal land sys-                  |
| 7  | TEMS.—To achieve the goals of the national strategy      |
| 8  | and to implement measures for the conservation of        |
| 9  | wildlife and wildlife habitat identified in the national |
| 10 | strategy—  |
| 11 | (A) the Secretary of the Interior shall exer-            |
| 12 | cise the authority of the Secretary under this           |
| 13 | title and other laws within the jurisdiction of          |
| 14 | the Secretary pertaining to the administration           |
| 15 | of land; and   |
| 16 | (B) the Secretary of Agriculture shall exer-             |
| 17 | cise the authority of the Secretary of Agri-             |
| 18 | culture under this title and other laws within           |
| 19 | the jurisdiction of the Secretary pertaining to          |
| 20 | the administration of land.                              |
| 21 | (2) WILDLIFE CONSERVATION PROGRAMS.—To                   |
| 22 | the maximum extent practicable, the Secretary, the       |
| 23 | Secretary of Agriculture, and the Secretary of Com-      |

merce shall use the authorities of the respective Sec-

| 1  | retary under other laws to achieve the goals of the        |
|----|--|
| 2  | national strategy.   |
| 3  | (e) Limitation on Effect.—Nothing in this sec-             |
| 4  | tion creates new authority or expands any existing author- |
| 5  | ity for the Secretary to regulate the use of private prop- |
| 6  | erty.  |
| 7  | SEC. 113. ADVISORY BOARD; NATIONAL GLOBAL WARMING          |
| 8  | AND WILDLIFE SCIENCE CENTER.                               |
| 9  | (a) Advisory Board.—                                       |
| 10 | (1) In general.—The Secretary shall establish              |
| 11 | and appoint the members of an Advisory Board that          |
| 12 | is composed of—  |
| 13 | (A) not less than 10, and not more than                    |
| 14 | 20, members recommended by the President of                |
| 15 | the National Academy of Sciences with exper-               |
| 16 | tise in wildlife biology, ecology, climate change,         |
| 17 | and other relevant disciplines; and                        |
| 18 | (B) the Director of the National Global                    |
| 19 | Warming and Wildlife Science Center estab-                 |
| 20 | lished under subsection (b), who shall be an ex-           |
| 21 | officio member of the Advisory Board.                      |
| 22 | (2) Functions.—The Advisory Board shall—                   |
| 23 | (A) provide scientific and technical advice                |
| 24 | and recommendations to the Secretary on—                   |

| 1  | (i) the impact of global warming on              |
|----|--|
| 2  | wildlife and wildlife habitat;                   |
| 3  | (ii) areas of habitat of particular im-          |
| 4  | portance for the conservation of wildlife        |
| 5  | populations affected by global warming           |
| 6  | and  |
| 7  | (iii) strategies and mechanisms to as-           |
| 8  | sist wildlife populations and wildlife habi-     |
| 9  | tats in adapting to the impact of global         |
| 10 | warming on the management of Federal             |
| 11 | land and in other Federal programs for           |
| 12 | wildlife conservation;                           |
| 13 | (B) advise the National Global Warming           |
| 14 | and Wildlife Science Center established under    |
| 15 | subsection (b) and review the research pro-      |
| 16 | grams of the Center; and                         |
| 17 | (C) advise the Secretary regarding the best      |
| 18 | science available for purposes of developing and |
| 19 | revising the national strategy established under |
| 20 | section 112.                                     |
| 21 | (3) Public availability.—The advice and          |
| 22 | recommendations of the Advisory Board shall be   |
| 23 | available to the public.                         |
| 24 | (b) National Global Warming and Wildlife         |
| 25 | Science Center.—                                 |

| 1  | (1) IN GENERAL.—The Secretary shall establish      |
|----|--|
| 2  | a National Global Warming and Wildlife Science     |
| 3  | Center within the United States Geological Survey. |
| 4  | (2) DIRECTOR.—The Center shall be headed by        |
| 5  | a Director, appointed by the Secretary.            |
| 6  | (3) Functions.—The Center shall—                   |
| 7  | (A) conduct scientific research on national        |
| 8  | issues relating to the impact of global warming    |
| 9  | on wildlife and wildlife habitat and mechanisms    |
| 10 | for adaptation to, mitigation of, or prevention    |
| 11 | of the impact;                                     |
| 12 | (B) consult with and advise Federal land           |
| 13 | management agencies and Federal wildlife           |
| 14 | agencies on—                                       |
| 15 | (i) the impact of global warming on                |
| 16 | wildlife and wildlife habitat and mecha-           |
| 17 | nisms for adaptation to or mitigation of           |
| 18 | the impact; and                                    |
| 19 | (ii) the incorporation of information              |
| 20 | regarding the impact and the adoption of           |
| 21 | mechanisms for adaptation or mitigation of         |
| 22 | the impact in the management and plan-             |
| 23 | ning for Federal land and in the adminis-          |
| 24 | tration of Federal wildlife programs; and          |

- 1 (C) consult and, to the maximum extent
  2 practicable, collaborate with State and local
  3 agencies, institutions of higher education, and
  4 other public and private entities regarding re5 search, monitoring, and other efforts to address
  6 the impact of global warming on wildlife and
  7 wildlife habitat.
- (4) Integration with other federal activities.—The Secretary, the Secretary of Agriculture, and the Secretary of Commerce shall ensure that research and other activities carried out under this section are integrated with climate change program research and activities carried out under other Federal law.
- 15 (c) Detection of Changes.—The Secretary, the
  16 Secretary of Agriculture, and the Secretary of Commerce
  17 shall use existing authorities to each carry out programs
  18 to detect changes in wildlife abundance, distribution, and
  19 behavior related to global warming, including—
- 20 (1) conducting species inventories on Federal 21 land and in marine areas within the exclusive eco-22 nomic zone of the United States; and
- (2) establishing and implementing robust, co ordinated monitoring programs.

## 1 SEC. 114. AUTHORIZATION OF APPROPRIATIONS.

| 2  | (a) In General.—There are authorized to be appro-         |
|----|---|
| 3  | priated such sums as are necessary to carry out this sub- |
| 4  | title.  |
| 5  | (b) Implementation of National Strategy.—Of               |
| 6  | the amount that is made available to carry out this sub-  |
| 7  | title for each fiscal year—                               |
| 8  | (1) 45 percent of the amount shall be made                |
| 9  | available to Federal agencies to develop and imple-       |
| 10 | ment the national strategy established under section      |
| 11 | 112 in the administration of Federal land systems,        |
| 12 | of which not less than—                                   |
| 13 | (A) 35 percent shall be allocated to the                  |
| 14 | Department of the Interior—                               |
| 15 | (i) to operate the National Global                        |
| 16 | Warming and Wildlife Science Center es-                   |
| 17 | tablished under section 113(b); and                       |
| 18 | (ii) to carry out the policy established                  |
| 19 | under section 111, and implement the na-                  |
| 20 | tional strategy, in the administration of—                |
| 21 | (I) the National Park System;                             |
| 22 | (II) the National Wildlife Refuge                         |
| 23 | System; and   |
| 24 | (III) public land of the Bureau of                        |
| 25 | Land Management; and                                      |

- 1 (B) 10 percent shall be allocated to the 2 Department of Agriculture to carry out the pol-3 icy established under section 111, and imple-4 ment the national strategy, in the administra-5 tion of the National Forest System;
  - (2) 25 percent of the amount shall be made available to Federal agencies to carry out the policy established under section 111, and to implement the national strategy, in the administration of fish and wildlife programs (other than for the operation and maintenance of Federal land), of which—
    - (A) 10 percent shall be allocated to the Department of the Interior to carry out endangered species, migratory bird, and other fish and wildlife programs administered by the United States Fish and Wildlife Service, other than operations and maintenance of the National Wildlife Refuges; and
    - (B) 15 percent shall be allocated to the Department of the Interior to implement or fund activities that assist wildlife and wildlife habitat in adapting to the impact of global warming under applicable cooperative grant programs, including—

| 1  | (i) grants from the cooperative endan-           |
|----|--|
| 2  | gered species conservation fund established      |
| 3  | under section 6(i) of the Endangered Spe-        |
| 4  | cies Act of 1973 (16 U.S.C. 1535(i));            |
| 5  | (ii) Private Stewardship Grants;                 |
| 6  | (iii) grants from the North American             |
| 7  | Wetlands Conservation Act (16 U.S.C.             |
| 8  | 4401 et seq.);                                   |
| 9  | (iv) grants from the multinational               |
| 10 | species conservation fund established under      |
| 11 | the heading "MULTINATIONAL SPECIES               |
| 12 | CONSERVATION FUND" of title I of the De-         |
| 13 | partment of the Interior and Related             |
| 14 | Agencies Appropriations Act, 1999 (16            |
| 15 | U.S.C. 4246);                                    |
| 16 | (v) grants from the Neotropical Mi-              |
| 17 | gratory Bird Conservation Fund estab-            |
| 18 | lished by section 9(a) of the Neotropical        |
| 19 | Migratory Bird Conservation Act (16              |
| 20 | U.S.C. 6108(a)); and                             |
| 21 | (vi) grants under the National Fish              |
| 22 | Habitat Action Plan; and                         |
| 23 | (3) 30 percent of the amount shall be made       |
| 24 | available for grants to States and Indian tribes |

| 1  | through the State and tribal wildlife grants program     |
|----|--|
| 2  | authorized under section 121—                            |
| 3  | (A) to carry out activities that assist wild-            |
| 4  | life and wildlife habitat in adapting to the im-         |
| 5  | pact of global warming in accordance with                |
| 6  | State comprehensive wildlife conservation plans          |
| 7  | developed and approved under the program;                |
| 8  | and  |
| 9  | (B) to revise or supplement existing State               |
| 10 | comprehensive wildlife conservation plans as             |
| 11 | necessary to include specific strategies for as-         |
| 12 | sisting wildlife and wildlife habitat in adapting        |
| 13 | to the impact of global warming.                         |
| 14 | (c) Availability to States and Indian Tribes.—           |
| 15 | (1) In general.—Subject to paragraphs (2)                |
| 16 | and (3), funding under this section may be made          |
| 17 | available to States and Indian tribes in accordance      |
| 18 | with this section.                                       |
| 19 | (2) Initial 5-year period.—During the 5-                 |
| 20 | year period beginning on the date of enactment of        |
| 21 | this Act, a State shall not be eligible to receive funds |
| 22 | under this section unless the head of the wildlife       |
| 23 | agency of the State has—                                 |
| 24 | (A) approved, and provided to the Sec-                   |
| 25 | retary, an express strategy to assist wildlife           |

| 1  | populations in adapting to the impact of global        |
|----|--|
| 2  | warming in the State; and                              |
| 3  | (B) incorporated the strategy as a supple-             |
| 4  | ment to the comprehensive wildlife conservation        |
| 5  | plan of the State.                                     |
| 6  | (3) Subsequent Period.—After the 5-year                |
| 7  | period described in paragraph (2), a State shall not   |
| 8  | be eligible to receive funds under this section unless |
| 9  | the State has submitted to the Secretary, and the      |
| 10 | Secretary has approved, a revision to the comprehen-   |
| 11 | sive wildlife conservation plan of the State that—     |
| 12 | (A) describes the impact of global warming             |
| 13 | on the diversity and health of the wildlife popu-      |
| 14 | lations and habitat of the State;                      |
| 15 | (B) describes and prioritizes proposed con-            |
| 16 | servation actions to assist wildlife populations       |
| 17 | in adapting to the impact;                             |
| 18 | (C) establishes programs for monitoring                |
| 19 | the impact of global warming on wildlife popu-         |
| 20 | lations and wildlife habitat; and                      |
| 21 | (D) establishes methods for—                           |
| 22 | (i) assessing the effectiveness of con-                |
| 23 | servation actions taken to assist wildlife             |
| 24 | populations in adapting to the impact; and             |

| 1  | (ii) adapting the actions to respond                        |
|----|---|
| 2  | appropriately to new information or chang-                  |
| 3  | ing conditions.   |
| 4  | (d) Maintenance of Effort.—It is the intent of              |
| 5  | Congress that funding provided under this subtitle supple-  |
| 6  | ments (and not supplants) existing sources of funding for   |
| 7  | wildlife conservation.                                      |
| 8  | Subtitle B—State and Tribal                                 |
| 9  | Wildlife Grants Program                                     |
| 10 | SEC. 121. STATE AND TRIBAL WILDLIFE GRANTS PROGRAM.         |
| 11 | (a) Authorization of Program.—The Secretary                 |
| 12 | shall establish a State and tribal wildlife grants program  |
| 13 | under which the Secretary shall provide wildlife conserva-  |
| 14 | tion grants to States, the District of Columbia, the Com-   |
| 15 | monwealth of Puerto Rico, Guam, American Samoa, the         |
| 16 | Commonwealth of the Northern Mariana Islands, the           |
| 17 | United States Virgin Islands, and Indian tribes for the     |
| 18 | planning, development, and implementation of programs       |
| 19 | for the benefit of wildlife and wildlife habitat, including |
| 20 | species that are not hunted or fished.                      |
| 21 | (b) Allocation of Funds.—                                   |
| 22 | (1) In general.—Subject to paragraph (2), of                |
| 23 | the amount that is made available to carry out this         |
| 24 | section for each fiscal year—                               |

| 1  | (A) 10 percent shall be used to conduct a       |
|----|---|
| 2  | competitive grant program for Indian tribes     |
| 3  | that are not subject to any other provision of  |
| 4  | this section;                                   |
| 5  | (B) of the amount remaining after the ap-       |
| 6  | plication of subparagraph (A) and after the de- |
| 7  | duction of the administrative expenses incurred |
| 8  | by the Secretary to carry out this section—     |
| 9  | (i) not more than $\frac{1}{2}$ of 1 percent    |
| 10 | shall be allocated to provide grants to each    |
| 11 | of—   |
| 12 | (I) the District of Columbia; and               |
| 13 | (II) the Commonwealth of Puerto                 |
| 14 | Rico; and                                       |
| 15 | (ii) not more than ½ of 1 percent               |
| 16 | shall be allocated to each of—                  |
| 17 | (I) Guam;                                       |
| 18 | (II) American Samoa;                            |
| 19 | (III) the Commonwealth of the                   |
| 20 | Northern Mariana Islands; and                   |
| 21 | (IV) the United States Virgin Is-               |
| 22 | lands; and                                      |
| 23 | (C) of the amount remaining after the ap-       |
| 24 | plication of subparagraphs (A) and (B), the     |
| 25 | Secretary shall apportion among the States—     |

| 1  | (i) ½ based on the ratio that the land                       |
|----|--|
| 2  | area of each State bears to the total land                   |
| 3  | area of all States; and                                      |
| 4  | (ii) <sup>2</sup> / <sub>3</sub> based on the ratio that the |
| 5  | population of each State bears to the total                  |
| 6  | population of all States.                                    |
| 7  | (2) Adjustments.—The amount apportioned                      |
| 8  | under paragraph (1)(C) for a fiscal year shall be ad-        |
| 9  | justed equitably so that no State is apportioned             |
| 10 | under that subparagraph an amount that is—                   |
| 11 | (A) less than 1 percent of the amount                        |
| 12 | available for apportionment under that subpara-              |
| 13 | graph for the fiscal year; or                                |
| 14 | (B) more than 5 percent of the amount.                       |
| 15 | (e) Cost Sharing.—   |
| 16 | (1) Plan development grants.—The Fed-                        |
| 17 | eral share of the costs of developing or revising a          |
| 18 | comprehensive wildlife conservation plan shall not           |
| 19 | exceed 75 percent of the total costs of developing or        |
| 20 | revising the plan.   |
| 21 | (2) Plan implementation grants.—The                          |
| 22 | Federal share of the costs of carrying out an activity       |
| 23 | under an approved comprehensive wildlife conserva-           |
| 24 | tion plan carried out with a grant under this section        |

- shall not exceed 50 percent of the total costs of carrying out the activity.
  - (3) Prohibition on use of federal funds.—The non-Federal share of costs of an activity carried out under this section shall not be paid with amounts derived from any Federal grant program.

### (d) REQUIREMENT FOR PLAN.—

- (1) IN GENERAL.—No State, territory, possession, or other jurisdiction (referred to in this subsection as an "eligible jurisdiction") shall be eligible for a grant under this section unless the eligible jurisdiction submits to the Secretary a comprehensive wildlife conservation plan that—
  - (A) complies with paragraph (2); and
  - (B) considers the broad range of wildlife and associated habitats of the eligible jurisdiction, with appropriate priority placed on species with the greatest conservation need and taking into consideration the relative level of funding available for the conservation of those species.
- (2) Contents.—The comprehensive wildlife conservation plan of an eligible jurisdiction shall contain—

| 1  | (A) information on the distribution and              |
|----|--|
| 2  | abundance of species of wildlife (including low      |
| 3  | and declining populations as the fish and wild-      |
| 4  | life agency of the eligible jurisdiction considers   |
| 5  | appropriate) that are indicative of the diversity    |
| 6  | and health of the wildlife of the eligible jurisdic- |
| 7  | tion;  |
| 8  | (B) information on the location and rel-             |
| 9  | ative condition of key habitats and community        |
| 10 | types essential to the conservation of species       |
| 11 | identified under subparagraph (A);                   |
| 12 | (C) a description of—                                |
| 13 | (i) problems that may adversely affect               |
| 14 | species identified under subparagraph (A)            |
| 15 | or the habitats of the species; and                  |
| 16 | (ii) priority research and survey ef-                |
| 17 | forts that are needed to identify factors            |
| 18 | that may assist in the restoration and im-           |
| 19 | proved conservation of those species and             |
| 20 | habitats;  |
| 21 | (D) a description of conservation actions            |
| 22 | proposed to conserve the identified species and      |
| 23 | habitats and priorities for implementing the ac-     |
| 24 | tions:   |

| 1  | (E) a proposed plan for monitoring species        |
|----|---|
| 2  | identified under subparagraph (A) and the         |
| 3  | habitats of the species, for—                     |
| 4  | (i) monitoring the effectiveness of the           |
| 5  | conservation actions proposed under sub-          |
| 6  | paragraph (D); and                                |
| 7  | (ii) adapting the conservation actions            |
| 8  | to respond appropriately to new informa-          |
| 9  | tion or changing conditions;                      |
| 10 | (F) a description of procedures to review         |
| 11 | the comprehensive wildlife conservation plan at   |
| 12 | intervals of not to exceed 10 years;              |
| 13 | (G) a plan for coordinating the develop-          |
| 14 | ment, implementation, review, and revision of     |
| 15 | the comprehensive wildlife conservation plan      |
| 16 | with Federal, State, and local agencies and In-   |
| 17 | dian tribes that manage significant land and      |
| 18 | water areas within the jurisdiction or admin-     |
| 19 | ister programs that significantly affect the con- |
| 20 | servation of identified species and habitats; and |
| 21 | (H) provisions that provide an opportunity        |
| 22 | for broad public participation as an essential    |
| 23 | element of the development, revision, and imple-  |
| 24 | mentation of the comprehensive wildlife con-      |
| 25 | servation plan.                                   |

| 1  | (e) Existing Strategies and Activities.—                |
|----|---|
| 2  | (1) Strategies.—A State comprehensive wild-             |
| 3  | life strategy that was approved by the Secretary pur-   |
| 4  | suant to a provision of law in effect on the day be-    |
| 5  | fore the date of enactment of this Act shall remain     |
| 6  | in effect until the authority for the strategy expires  |
| 7  | or is revised in accordance with the terms of the       |
| 8  | strategy.   |
| 9  | (2) Activities.—Except as specified in section          |
| 10 | 114(c), funds made available under this section may     |
| 11 | be used to carry out conservation and education ac-     |
| 12 | tivities conducted or proposed to be conducted pur-     |
| 13 | suant to a strategy described in paragraph (1).         |
| 14 | (f) Authorization of Appropriations.—There              |
| 15 | are authorized to be appropriated such sums as are nec- |
| 16 | essary to carry out this section.                       |
| 17 | TITLE II—OCEAN PROGRAMS                                 |
| 18 | SEC. 201. SHORT TITLE.                                  |
| 19 | This title may be cited as the "Global Warming and      |
| 20 | Acidification Coastal and Ocean Resiliency Act".        |
| 21 | SEC. 202. FINDINGS.                                     |
| 22 | Congress finds that—                                    |
| 23 | (1) healthy, diverse, and productive coastal,           |
| 24 | ocean, and Great Lakes ecosystems, communities,         |

| 1  | and habitats are critical to securing the full range     |
|----|--|
| 2  | of natural resource benefits for the United States;      |
| 3  | (2) healthy ecosystems are more resilient than           |
| 4  | degraded ecosystems;                                     |
| 5  | (3) resilient ecosystems can better adapt to             |
| 6  | changing environmental conditions, including global      |
| 7  | warming and ocean acidification;                         |
| 8  | (4) the effects of global warming, including rel-        |
| 9  | ative sea level rise and ocean acidification pose sig-   |
| 10 | nificant threats to healthy ocean, coastal, and Great    |
| 11 | Lakes ecosystems; and                                    |
| 12 | (5) policies and programs designed to ensure             |
| 13 | the recovery, resilience, and health of coastal, ocean,  |
| 14 | and Great Lakes ecosystems and the resources of          |
| 15 | the ecosystems in the face of environmental change       |
| 16 | are an urgent national priority.                         |
| 17 | Subtitle A—National Policy for                           |
| 18 | Ocean, Coastal, and Great Lakes                          |
| 19 | Ecosystem Health and Resil-                              |
| 20 | iency  |
| 21 | SEC. 211. NATIONAL POLICY ON OCEAN, COASTAL, AND         |
| 22 | GREAT LAKES ECOSYSTEM HEALTH AND RE-                     |
| 23 | SILIENCY.  |
| 24 | It is the policy of the Federal Government, in co-       |
| 25 | operation with State, tribal, and affected local govern- |

| 1  | ments, other concerned public and private organizations,   |
|----|--|
| 2  | coastal and ocean resource users, and citizens to take ef- |
| 3  | fective measures—  |
| 4  | (1) to ensure the recovery, resiliency, and                |
| 5  | health of ocean, coastal, and Great Lakes eco-             |
| 6  | systems;   |
| 7  | (2) to predict, plan for, and mitigate the impact          |
| 8  | on coastal, ocean, and Great Lakes ecosystems from         |
| 9  | global warming, including relative sea level rise, and     |
| 10 | from ocean acidification;                                  |
| 11 | (3) to plan for and mitigate the impact of the             |
| 12 | development of offshore alternative energy resources       |
| 13 | and appropriate carbon capture and sequestration           |
| 14 | activities; and  |
| 15 | (4) to cooperate and collaborate to support im-            |
| 16 | proved and enhanced ocean and coastal management           |
| 17 | in the United States.                                      |
| 18 | SEC. 212. NATIONAL OCEAN, COASTAL, AND GREAT LAKES         |
| 19 | RESILIENCY STRATEGY.                                       |
| 20 | (a) Requirement.—  |
| 21 | (1) In general.—Not later than 2 years after               |
| 22 | the date of enactment of this Act, the Secretary of        |
| 23 | Commerce (referred to in this title as the "Sec-           |
| 24 | retary") shall implement the national policy under         |
| 25 | section 211 by establishing a national strategy to         |

| 1  | protect, maintain, and restore coastal and marine    |
|----|--|
| 2  | ecosystems so that the ecosystems are more resilient |
| 3  | and better able to withstand the additional stresses |
| 4  | associated with global warming, including relative   |
| 5  | sea level rise, and with ocean acidification.        |
| 6  | (2) Measures.—In establishing the national           |
| 7  | strategy, the Secretary shall provide for research   |
| 8  | and design of practical measures—                    |
| 9  | (A) to avoid, alleviate, or mitigate the im-         |
| 10 | pact of global warming, including relative sea       |
| 11 | level rise, and of ocean acidification on ocean,     |
| 12 | coastal, and Great Lakes ecosystems and re-          |
| 13 | sources in the United States; and                    |
| 14 | (B) to ensure the recovery, resiliency, and          |
| 15 | health of ocean, coastal, and Great Lakes eco-       |
| 16 | systems.   |
| 17 | (3) Administration.—Before and during the            |
| 18 | development of the national strategy, the Secretary  |
| 19 | shall—   |
| 20 | (A) base the national strategy on the best           |
| 21 | available science;                                   |
| 22 | (B) consult with—                                    |
| 23 | (i) the Secretary of the Interior;                   |
| 24 | (ii) the Administrator of the Environ-               |
| 25 | mental Protection Agency:                            |

| 1  | (iii) Regional Fishery Management                    |
|----|--|
| 2  | Councils;  |
| 3  | (iv) State coastal management and                    |
| 4  | fish and wildlife agencies;                          |
| 5  | (v) Indian tribes;                                   |
| 6  | (vi) local governments;                              |
| 7  | (vii) conservation organizations;                    |
| 8  | (viii) scientists; and                               |
| 9  | (ix) other interested stakeholders; and              |
| 10 | (C) provide public notice and opportunity            |
| 11 | for comment.   |
| 12 | (b) Contents.—                                       |
| 13 | (1) In General.—The Secretary shall include          |
| 14 | in the national strategy prioritized goals and meas- |
| 15 | ures and a plan for implementation (including a      |
| 16 | timeframe)—  |
| 17 | (A) to incorporate climate change adapta-            |
| 18 | tion strategies into the planning and manage-        |
| 19 | ment of ocean and coastal programs and re-           |
| 20 | sources administered by the Department of            |
| 21 | Commerce;  |
| 22 | (B) to incorporate the strategies into the           |
| 23 | planning and management of ocean and coastal         |
| 24 | resources administered by Federal and non-           |

| 1  | Federal governmental entities other than the       |
|----|--|
| 2  | Department of Commerce;                            |
| 3  | (C) to support predictions of relative sea         |
| 4  | level rise;  |
| 5  | (D) to protect, maintain, and restore              |
| 6  | coastal and marine ecosystems so that the eco-     |
| 7  | systems are more resilient and better able to      |
| 8  | withstand the additional stresses associated       |
| 9  | with global warming, including relative sea level  |
| 10 | rise, and with ocean acidification;                |
| 11 | (E) to protect ocean and coastal species           |
| 12 | from the impact of global warming and ocean        |
| 13 | acidification;                                     |
| 14 | (F) to incorporate adaptation strategies for       |
| 15 | relative sea level rise into coastal zone planning |
| 16 | (G) to protect and restore ocean and coast-        |
| 17 | al habitats to build healthy and resilient eco-    |
| 18 | systems, including the purchase of coastal and     |
| 19 | island land; and                                   |
| 20 | (H) to promote the development of plans            |
| 21 | to mitigate at the community level the economic    |
| 22 | consequences of global warming, including rel-     |
| 23 | ative sea level rise and ocean acidification.      |

| 1  | (2) Coordination with other plans.—In                      |
|----|--|
| 2  | developing the national strategy, the Secretary shall,     |
| 3  | to the maximum extent practicable—                         |
| 4  | (A) take into consideration research and                   |
| 5  | information contained in—                                  |
| 6  | (i) Federal, regional, and State man-                      |
| 7  | agement and restoration plans;                             |
| 8  | (ii) the reports of the Pew Oceans                         |
| 9  | Commission and the United States Com-                      |
| 10 | mission on Ocean Policy; and                               |
| 11 | (iii) any other relevant reports and in-                   |
| 12 | formation; and   |
| 13 | (B) encourage and take into account re-                    |
| 14 | gional plans for protecting and restoring the              |
| 15 | health and resilience of ocean and coastal eco-            |
| 16 | systems, including the Great Lakes.                        |
| 17 | (c) REVISIONS.—Not later than 5 years after the            |
| 18 | date of the initial establishment of the national strategy |
| 19 | and each 10 years thereafter, the Secretary shall revise   |
| 20 | the national strategy to reflect—                          |
| 21 | (1) new information on the impact of global                |
| 22 | warming, including relative sea level rise, and of         |
| 23 | acidification on ocean, coastal and Great Lakes eco-       |
| 24 | systems and the resources of the ecosystems; and           |

| 1                               | (2) advances in the development of strategies                                   |
|---------------------------------|---|
| 2                               | for adapting to or mitigating for the impact.                                   |
| 3                               | (d) Implementation.—To achieve the goals of the                                 |
| 4                               | national strategy, each Federal agency shall (directly and                      |
| 5                               | in cooperation with other agencies) implement measures                          |
| 6                               | for the conservation of ocean, coastal, and Great Lakes                         |
| 7                               | ecosystems under the jurisdiction of the Federal agency                         |
| 8                               | that promote the national strategy established under this                       |
| 9                               | section.  |
| 10                              | SEC. 213. ADVISORY BOARD.   |
| 11                              | (a) In General.—The Secretary shall establish and                               |
| 12                              | appoint the members of an Advisory Board that is com-                           |
| 13                              | posed of not less than 10, and not more than 20, members                        |
| 14                              | recommended by the President of the National Academy                            |
| 15                              | of Sciences with expertise in ocean, coastal, and Great                         |
| 16                              | Lakes biology, ecology, fisheries, climate change, ocean                        |
| 17                              | acidification, and other relevant disciplines, including eco-                   |
| 18                              | nomics at the community level.  |
| 19                              | (b) Function.—The Advisory Board shall—   |
| 20                              | (1) provide scientific and technical advice and                                 |
|                                 |   |
| 21                              | recommendations to the Secretary on—  |
| <ul><li>21</li><li>22</li></ul> | recommendations to the Secretary on—  (A) the impact of global warming, includ- |
|                                 | ·   |

| 1  | logical and coastal communities, and habitats;         |
|----|--|
| 2  | and  |
| 3  | (B) strategies and mechanisms to mitigate              |
| 4  | the impact of global warming, including relative       |
| 5  | sea level rise, and of acidification on ocean and      |
| 6  | coastal ecosystems;                                    |
| 7  | (2) advise the Secretary on priorities for re-         |
| 8  | search or information collection; and                  |
| 9  | (3) advise the Secretary on priority needs for         |
| 10 | achieving systematic improvements in ocean and         |
| 11 | coastal resiliency for the purposes of section 212.    |
| 12 | SEC. 214. IMPLEMENTATION OF NATIONAL STRATEGY.         |
| 13 | (a) In General.—Of the amount that is made avail-      |
| 14 | able to carry out this subtitle for each fiscal year—  |
| 15 | (1) 40 percent shall be made available for the         |
| 16 | carrying out of Federal responsibilities to develop    |
| 17 | and implement the national strategy established        |
| 18 | under section 212; and                                 |
| 19 | (2) 60 percent shall be used to make grants            |
| 20 | under subsection (b).                                  |
| 21 | (b) Grants.—   |
| 22 | (1) IN GENERAL.—The Secretary shall make               |
| 23 | grants to eligible entities to pay the Federal share   |
| 24 | (as determined by the Secretary) to carry out activi-  |
| 25 | ties that contribute to or result in protecting, main- |

| 1  | taining, or restoring the resilience and health of     |
|----|--|
| 2  | coastal, ocean, and Great Lakes ecosystems and re-     |
| 3  | sources, including planning and scientific research to |
| 4  | support such purposes.                                 |
| 5  | (2) Eligible entities.—To be eligible to re-           |
| 6  | ceive a grant under this subsection, an entity shall   |
| 7  | be—  |
| 8  | (A) a Federal agency;                                  |
| 9  | (B) an agency of a State or political sub-             |
| 10 | division;  |
| 11 | (C) a regional partnership;                            |
| 12 | (D) an Indian tribe;                                   |
| 13 | (E) an institution of higher education; or             |
| 14 | (F) a nongovernmental organization.                    |
| 15 | (3) Eligible uses.—A grant provided under              |
| 16 | this subsection may only be used to carry out an ac-   |
| 17 | tivity described in paragraph (1) that is approved by  |
| 18 | the Secretary.   |
| 19 | (4) Prioritization.—In approving applica-              |
| 20 | tions under this subsection, the Secretary shall give  |
| 21 | priority to proposals that—                            |
| 22 | (A) implement measures to enhance the                  |
| 23 | health or resilience of coastal, ocean, or Great       |
| 24 | Lakes areas of national significance, including        |
| 25 | hiological historical and cultural measures.           |

| 1  | (B) result in systematic improvements to          |
|----|---|
| 2  | the resilience and health of coastal and ocean    |
| 3  | ecosystems and resources;                         |
| 4  | (C) are sufficiently cooperative and broad        |
| 5  | in geographic scope to address the problem or     |
| 6  | need; and   |
| 7  | (D) demonstrate cost-effectiveness based          |
| 8  | on ecosystems services provided per dollar of     |
| 9  | Federal expenditure, including consideration of   |
| 10 | the potential for a funding match.                |
| 11 | (5) Guidance.—The Secretary shall issue           |
| 12 | guidance regarding a process for—                 |
| 13 | (A) the approval or disapproval of applica-       |
| 14 | tions for grants under this subsection, including |
| 15 | opportunities for public comment; and             |
| 16 | (B) the establishment of annual and               |
| 17 | multiyear national funding priorities.            |
| 18 | (6) Evaluation.—                                  |
| 19 | (A) IN GENERAL.—The Secretary shall es-           |
| 20 | tablish a system to provide for an annual exter-  |
| 21 | nal evaluation of each grant that measures the    |
| 22 | progress of implementation of the grant against   |
| 23 | the goals and objectives of the grant project.    |

| 1  | (B) Public availability.—The Secretary                      |
|----|---|
| 2  | shall make the results of the evaluations pub-              |
| 3  | licly available.  |
| 4  | SEC. 215. REPORTS.  |
| 5  | (a) NATIONAL ACADEMY OF SCIENCES.—The Sec-                  |
| 6  | retary shall enter into an arrangement with the National    |
| 7  | Academy of Sciences under which the Academy shall re-       |
| 8  | port to Congress, not later than 2 years after the date     |
| 9  | of enactment of this Act, on the current and projected im-  |
| 10 | pact of global warming, including relative sea level rise,  |
| 11 | of ocean acidification, and on effective mitigation strate- |
| 12 | gies for the ocean, coastal, and Great Lakes ecosystems     |
| 13 | and resources of the United States.                         |
| 14 | (b) Report to Congress.—The Secretary shall                 |
| 15 | make available to Congress a copy of the strategy and im-   |
| 16 | plementation plan established under this subtitle (includ-  |
| 17 | ing any updates to the strategy and plan).                  |
| 18 | SEC. 216. AUTHORIZATION OF APPROPRIATIONS.                  |
| 19 | There are authorized to be appropriated such sums           |
| 20 | as are necessary to carry out this subtitle.                |

# **Subtitle B—Planning for Climate** 1 **Change in Coastal Zone** 2 SEC. 221. PLANNING FOR CLIMATE CHANGE IN COASTAL 4 ZONE. 5 (a) In General.—The Coastal Zone Management Act of 1972 (16 U.S.C. 1451 et seq.) is amended by adding at the end the following: 7 "SEC. 320. CLIMATE CHANGE RESILIENCY PLANNING. 9 "(a) DEFINITIONS.—In this section, the terms 'ecological processes', 'habitat', and 'wildlife' have the meanings given those terms in section 2 of the Global Warming 12 Wildlife Survival Act. 13 "(b) Program.—The Secretary shall establish, consistent with the national policies established under section 15 303, a coastal climate change resiliency planning and re-16 sponse program to— "(1) provide assistance to coastal states to de-17 18 velop and implement coastal climate change resil-19 iency plans pursuant to approved management pro-20 grams approved under section 306, to prepare for 21 and reduce, in an environmentally sensitive manner, 22 the negative consequences to the coastal zone that

may result from global warming and ocean acidifica-

tion; and

23

1 "(2) provide financial and technical assistance 2 and training to enable coastal states to implement 3 plans developed pursuant to this section through en-4 forceable policies of the coastal states. "(c) GUIDELINES.—Not later than 180 days after the 5 date of enactment of this section, the Secretary, in con-6 7 sultation with the coastal states, shall issue guidelines for 8 the implementation of the grant program established under subsection (d). 10 "(d) CLIMATE CHANGE RESILIENCY PLANNING 11 Grants.— 12 "(1) In general.—Subject to the availability 13 of appropriations, the Secretary may make a grant 14 to any coastal state for the purpose of developing 15 and implementing climate change resiliency plans 16 pursuant to guidelines issued by the Secretary under 17 subsection (c). 18 "(2) Plan content.— 19 "(A) IN GENERAL.—A plan developed with 20 a grant under this section shall include adapta-21 tion strategies for fish and wildlife, fish and 22 wildlife habitat, and associated ecological proc-23 ess as are necessary to assist fish and wildlife, 24 fish and wildlife habitat, and associated ecologi-

cal processes to adapt to, become resilient to,

| 1  | and mitigate the impact of, global warming and |
|----|--|
| 2  | ocean acidification.                           |
| 3  | "(B) Inclusions.—The plans shall spe-          |
| 4  | cifically include—                             |
| 5  | "(i) adaptive management strategies            |
| 6  | for land and water use to respond or adapt     |
| 7  | to changing environmental conditions, in-      |
| 8  | cluding strategies to protect biodiversity     |
| 9  | and establish habitat buffer zones, migra-     |
| 10 | tion corridors, and climate refugia; and       |
| 11 | "(ii) requirements—                            |
| 12 | "(I) to initiate and maintain                  |
| 13 | long-term monitoring of environ-               |
| 14 | mental change to assess coastal zone           |
| 15 | resiliency; and                                |
| 16 | "(II) if necessary, to adjust                  |
| 17 | adaptive management strategies and             |
| 18 | new planning guidelines to attain the          |
| 19 | policies under section 303.                    |
| 20 | "(3) Allocation.—Grants under this section     |
| 21 | shall be—                                      |
| 22 | "(A) available only to coastal states with     |
| 23 | management programs approved by the Sec-       |
| 24 | retary under section 306; and                  |

| 1  | "(B) allocated among the coastal states in               |
|----|--|
| 2  | a manner consistent with regulations promul-             |
| 3  | gated pursuant to section 306(c).                        |
| 4  | "(4) Priority.—In the awarding grants under              |
| 5  | this subsection, the Secretary may give priority to      |
| 6  | any coastal state that has received grant funding to     |
| 7  | develop program changes pursuant to paragraphs           |
| 8  | (1), (2), (3), (5), (6), (7), and (8) of section 309(a). |
| 9  | "(5) TECHNICAL ASSISTANCE.—The Secretary                 |
| 10 | may provide technical assistance to a coastal state      |
| 11 | (consistent with section 310) to ensure the timely       |
| 12 | development of plans supported by grants awarded         |
| 13 | under this subsection.                                   |
| 14 | "(6) Federal approval.—In order to be eligi-             |
| 15 | ble for a grant under subsection (e), a coastal state    |
| 16 | shall have the plan of the coastal state developed       |
| 17 | under this section approved by the Secretary.            |
| 18 | "(e) Coastal Resiliency Project Grants.—                 |
| 19 | "(1) In general.—Subject to the availability             |
| 20 | of appropriations, the Secretary may make grants to      |
| 21 | any coastal state that has a climate change resil-       |
| 22 | iency plan approved under subsection (d)(6) for im-      |
| 23 | plementation of the plan.                                |
| 24 | "(2) Program requirements.—                              |

| 1  | "(A) IN GENERAL.—Not later than 90                    |
|----|---|
| 2  | days after the date of approval of the first plan     |
| 3  | approved under subsection (d)(6), the Secretary       |
| 4  | shall publish in the Federal Register require-        |
| 5  | ments regarding applications, allocations, eligi-     |
| 6  | ble activities, and all terms and conditions for      |
| 7  | grants awarded under this subsection.                 |
| 8  | "(B) Merit-based awards.—No less                      |
| 9  | than 30 percent of the funds made available for       |
| 10 | any fiscal year for grants under this subsection      |
| 11 | shall be awarded through a merit-based com-           |
| 12 | petitive process.".                                   |
| 13 | (b) Authorization of Appropriations.—Section          |
| 14 | 318(a) of the Coastal Zone Management Act of 1972 (16 |
| 15 | U.S.C. 1464(a)) is amended—                           |
| 16 | (1) in paragraph (1), by striking "and" at the        |
| 17 | end;  |
| 18 | (2) in paragraph (2), by striking the period at       |
| 19 | the end and inserting "; and; and                     |
| 20 | (3) by adding by adding at the end the fol-           |
| 21 | lowing:   |
| 22 | "(3) for grants under subsections (d) and (e) of      |
| 23 | section 320, such sums as are necessary for each fis- |
| 24 | cal year.".   |

# TITLE III—SPECIAL IMPERILED SPECIES PROGRAMS

| 3  | SEC. 301. DEFINITIONS.                               |
|----|--|
| 4  | In this title:                                       |
| 5  | (1) Director.—The term "Director" means              |
| 6  | the Director of the United States Geological Survey. |
| 7  | (2) Ecosystem.—The term "ecosystem"                  |
| 8  | means any complex of a plant, animal, fungal, and    |
| 9  | microorganism community and the associated non-      |
| 10 | living environment of the community that interacts   |
| 11 | as an ecological unit, including the species and the |
| 12 | viability of species within the community.           |
| 13 | (3) Imperiled species.—The term "imperiled           |
| 14 | species" means—                                      |
| 15 | (A) a species listed as an endangered spe-           |
| 16 | cies or threatened species under the Endan-          |
| 17 | gered Species Act of 1973 (16 U.S.C. 1531 et         |
| 18 | seq.);   |
| 19 | (B) a species proposed for listing under             |
| 20 | that Act;  |
| 21 | (C) a candidate species under that Act.;             |
| 22 | (D) a species listed as an endangered spe-           |
| 23 | cies under any State law; and                        |
| 24 | (E) a species, the population of which is            |
| 25 | declining at a significant rate.                     |

## 1 SEC. 302. REGIONAL ECOLOGICAL SYMPOSIA.

| 2  | (a) In General.—Not later than 18 months after                |
|----|---|
| 3  | the date of enactment of this Act, the Director, in coordi-   |
| 4  | nation with the Director of the United States Fish and        |
| 5  | Wildlife Service and the Director of the National Marine      |
| 6  | Fisheries Service, shall convene multiple regional scientific |
| 7  | symposia to examine the ecological impact of global warm-     |
| 8  | ing on each imperiled species in each ecosystem of the        |
| 9  | United States.  |
| 10 | (b) Composition.—A symposium convened in a re-                |
| 11 | gion shall include—   |
| 12 | (1) scientific representatives from Federal agen-             |
| 13 | cies with species- or ecosystem-related activities in         |
| 14 | the region;   |
| 15 | (2) if appropriate, scientists or technical experts           |
| 16 | representing State, local, and tribal governments;            |
| 17 | and   |
| 18 | (3) scientific experts from institutions of higher            |
| 19 | education and scientific societies, and any other             |
| 20 | independent scientists with sufficient qualifications         |
| 21 | and credentials, particularly with respect to site-spe-       |
| 22 | cific ecological conditions and the status of species         |
| 23 | and ecological communities of concern in the region.          |
| 24 | (c) Duties.—A symposium convened in a region                  |
| 25 | shall—  |

| 1  | (1) identify and assess fish, wildlife, and plant            |
|----|--|
| 2  | species, the habitats of the species, and the natural        |
| 3  | processes, ecosystems, and landscapes that support           |
| 4  | the habitats, that are most imperiled by global              |
| 5  | warming; and   |
| 6  | (2) focus on imperiled species that are located              |
| 7  | on public land, declining migratory birds species,           |
| 8  | and other species that are protected by treaty or            |
| 9  | international agreement.                                     |
| 10 | SEC. 303. NATIONAL ACADEMY OF SCIENCES REPORT.               |
| 11 | (a) In General.—As soon as practicable after the             |
| 12 | date of enactment of this Act, the Secretary of the Interior |
| 13 | shall enter into an arrangement with the National Acad-      |
| 14 | emy of Sciences under which the Academy shall convene        |
| 15 | a panel—   |
| 16 | (1) to examine and analyze the reports, data,                |
| 17 | documents, and other information created by the              |
| 18 | multiple regional scientific symposia convened in ac-        |
| 19 | cordance with section 302(a); and                            |
| 20 | (2) to prepare a report that takes into consider-            |
| 21 | ation each report, data, document, and other item of         |
| 22 | information described in paragraph (1).                      |
| 23 | (b) Contents of Report.—The report required                  |
| 24 | under subsection (a)(2) shall include—                       |
| 25 | (1) an identification and assessment of—                     |

- 1 (A) the impact of global warming on each
  2 imperiled species and ecosystem in the United
  3 States (including the territories of the United
  4 States); and
  - (B) different ecological scenarios that may result from different intensities, rates, and other critical manifestations of global warming; (2) recommendations for specific roles to be played by Federal, State, local, and tribal agencies and private parties in assisting imperiled species in adapting to, and surviving the impacts of, climate change, including a recommended list of prioritized remediation actions by those agencies and parties;
- 15 (3) other relevant ecological information.
- 16 (c) Public Availability.—The recommendations
  17 and report required under this section shall be made avail18 able to the public as soon as practicable after the rec19 ommendations and report are complete.
- 20 (d) USE OF REPORT BY CERTAIN HEADS OF FED-21 ERAL AGENCIES.—The Secretary of Agriculture, the Sec-22 retary of Commerce, and the Secretary of the Interior, in 23 carrying out each national policy described in sections 111

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and

- 1 and 211, shall take into account the recommendations and
- 2 report required under this section.

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