

# Congressional Bills Addressing Climate Change Adaptation<sup>1</sup>

## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
H CON RES 2	U.S. Fish and Wildlife Service incorporate global warming and sea level rise...	Christensen / 2	1/6/09 introduced. Referred to sub-comm. on Insular Affairs, Oceans and Wildlife.	Expresses the sense of the Congress that the United States Fish and Wildlife Service to incorporate consideration of global warming and sea-level rise into their comprehensive conservation plans for coastal national wildlife refuges.		Coastal, Fish & Wildlife
H. CON. RES 98	Recognizing the disparate impact of climate change on women and the efforts of women globally to address climate change.		4/2/09 introduced. Referred to Committee on Energy and Commerce.	Recognizes the disparate impacts of climate change on women and the efforts of women globally to address climate change; and calls for mechanisms to account for this disparity in policy and program development and support women who are particularly vulnerable to climate change impacts to prepare for, build their resilience, and adapt to those impacts. It also calls for women to have a voice in the planning and implementation of strategies to address climate change.		Women
HR 14	Federal Ocean Acidification Research and Monitoring (FOARAM)	Baird / 5	1/6/09 introduced. Referred to House Committee on Science and Technology.	Requires the Joint Subcommittee on Ocean Science and Technology of the National Science and Technology Council to develop a strategic plan for federal ocean acidification research and monitoring that provides for an assessment of ocean acidification impacts on marine organisms and ecosystems and the development of adaptation and mitigation strategies to conserve marine organisms and ecosystems. Directs the Secretary of Commerce to conduct research and monitoring and authorizes the Secretary to establish an ocean acidification program in NOAA consistent with the strategic research plan. Appropriations: NOAA and NSF receive annual appropriations which increase yearly from 2010-2013 from \$8 million to \$20 million and \$6 million to \$15 million respectively.	See S. 173	Ocean, Research
HR 21	Ocean Conservation, Education and Strategy for the 21st Century	Farr / 60	1/6/09 introduced. 2/4/09 referred to House subcommittee on Insular Affairs, Oceans and Wildlife. 6/4/09 - Hearings held.	Establishes a national ocean, coastal, and Great Lakes policy and outlines federal agency participation in such policy. - Formally establishes NOAA as a civilian agency. - Establishes: (1) a National Ocean Advisor and a Council on Ocean Stewardship in the Executive Office of the President; and (2) a Presidential Panel of Advisers on Oceans and Climate. - Designates nine ocean regions to promote coordinated regional efforts to implement the national ocean policy. - Requires the NOAA Administrator to establish or designate a Regional Ocean Partnership for each region comprised of federal, state, Fishery Management Council and Local government membership. Each Regional Partnership is required to prepare a Regional Assessment and a Ocean Strategic Plan. - Requires payments to coastal states for participation in regional assessments, plan development and plan implementation. Appropriations: For allocation to states - \$40m per yr 2011-13, \$60m per yr 2014-21; For Administrator - \$20m per yr 2011-21; For allocation for federal activity - \$30m 21014, \$40m 2015, \$50m yr 2016-2021.	S. 858	Coastal, Ocean, Assessments, Planning

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HR 146	Omnibus Public Land Management Act of 2009	Holt/10	1/6/09 introduced. Became 3/30/09 became <b>Public Law 111-11</b> .	<p><b>Title IV: Forest Landscape Restoration</b> - Requires the establishment of a Collaborative Forest Landscape Restoration Program in the U.S. Forest Service, to select and fund ecological restoration treatments for priority forest landscapes. Requires a scientific advisory panel to evaluate, and provide recommendations on, any proposal. Requires the panel to include experts in ... strategies for ecological adaptation to climate change...</p> <p><b>Title IX: Bureau of Reclamation Authorizations - Subtitle F: Secure Water</b> - Requires the establishment of a Climate Change Adaptation Program to: (1) assess the effects of, and risks from, global climate change regarding the quantity of water resources located in specified areas encompassing a watershed that contains a federally authorized reclamation project (service areas); and (2) ensure that strategies are developed to address potential water shortages, conflicts, and other impacts to water users and the environment of each service area.</p> <p>Directs the Secretary to: (1) coordinate with the U.S. Geological Survey (USGS), the National Oceanic and Atmospheric Administration (NOAA), the regional integrated sciences and assessments program established by the Administrator of NOAA, and each appropriate state water resource agency to ensure that the Secretary has access to the best available scientific information regarding presently observed and projected future impacts of climate change on water resources; (2) assess specific risks to the water supply of each major reclamation river basin; (3) analyze the extent to which changes in U.S. water supply will impact water delivery to contractors, hydroelectric power generation facilities, recreation at reclamation facilities, fish and wildlife habitat, applicable species listed as endangered, threatened, or candidate species under ESA, water quality issues, flow and water dependent ecological resiliency, and flood control management; and (4) consider and develop strategies to mitigate each impact analyzed.</p> <p>(Sec. 9505) Directs the Secretary of Energy to assess effects of, and risks from, climate change regarding water supplies required for the generation of hydroelectric power at each federal water project that is applicable to a Federal Power Marketing Administration.</p> <p>(Sec. 9506) Directs the Secretary and the Administrator to establish and lead a climate change and water intra-governmental panel to...</p> <p>(Sec. 9507) Directs the Secretary to proceed with implementation of the national streamflow information program, ....Directs the Secretary to: (1) provide data necessary for the improvement of understanding regarding surface water and groundwater interactions; (2) support the groundwater climate response network to improve the understanding of the effects of climate change on groundwater recharge and availability....</p> <p>(Sec. 9508) Directs the Secretary, in coordination with the Advisory Committee and state and local water resource agencies, to establish a national water availability and use assessment program to: (1) provide a more accurate assessment of the status of U.S. water resources; (2) assist in the determination of the quantity and quality of water resources; (3) identify long-term trends in water availability to provide a more accurate assessment of the change in the availability of water; and (4) develop the basis for an improved ability to forecast the availability of water for future economic, energy production, and environmental uses.</p>	H.RES.280, H.R.165, H.R.166, H.R.169, H.R.170, H.R.234, H.R.279, H.R.280, H.R.283, H.R.286, H.R.316, H.R.328, H.R.337, H.R.338, H.R.351, H.R.369, H.R.401, H.R.404, H.R.408, H.R.410, H.R.419, H.R.438, H.R.453, H.R.454, H.R.455, H.R.488, H.R.545, H.R.552, H.R.602, H.R.604, H.R.763, H.R.921, H.R.1435, H.R.1694, S.22	Forest, Water
HR 300	National Oceanic and Atmospheric Administration Act	Ehlers / 0	1/8/09 introduced. 2/4/09 Referred to subcommittee on Insular Affairs, Oceans, and Wildlife.	Reestablishes in the Department of Commerce the National Oceanic and Atmospheric Administration (NOAA). Maintains within NOAA: (1) the National Weather Service; (2) programs to support efforts, on a continuing basis, to collect data and provide information and products regarding satellites, observations, and coastal, ocean, and Great Lakes information; and (3) programs to conduct and support research and education and the development of technologies relating to weather, climate, and the coasts, oceans, and Great Lakes.		Climate Information, Climate Service, Coastal, Ocean
HR 367	Integrated Coastal and Ocean Observation System Act of 2009	Capps/14	1/9/09 introduced. 2/4/09 referred to subcommittee on Insular Affairs, Oceans and Wildlife and subcommittee on Energy and Environment.	Directs the President to establish a National Integrated Coastal and Ocean Observation System to: (1) support national defense, marine commerce, navigation safety, weather, climate, and marine forecasting, energy siting and production, economic development, ecosystem-based marine, coastal, and Great Lakes resource management, public safety and public outreach training and education; (2) promote awareness of ocean, coastal, and Great Lakes resources; (3) promote basic and applied scientific research; and (4) improve the ability to measure, track, explain, and predict weather and climate change and natural climate variability. Makes NOAA the System's lead federal agency. Sets forth the requirements for a regional information coordination entity to be certified or established.		Ocean, Coastal

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HR 585	Environment and Public Health Restoration Act of 2009	Lee/5	1/15/09 introduced. 4/23/09 referred to Committees: Science and Technology, Transportation and Infrastructure, Natural Resources, and Agriculture. (subcommittee on Dept Operations, Oversight, Nutrition and Forestry).	Directs the President to enter into an arrangement with the National Academy of Sciences to evaluate certain Federal rules and regulations for potentially harmful impacts on public health, air quality, water quality, plant and animal wildlife, global climate, or the environment; and to direct Federal departments and agencies to create plans to reverse those impacts that are determined to be harmful by the National Academy of Sciences.		Policy, Planning, Public Health, Water, Wildlife
H.R. 1105	Omnibus Appropriations Act of 2009	Obey/0	2/23/09 introduced. 3/11/09 Became <b>Public Law 111-008</b> .	Title VII: General Provisions (Sec. 7083) Obligates funds under this Act for clean energy (including global warming reduction) and climate change adaptation programs in developing countries.	H. Res 184	International
H.R. 1145	National Water Research and Development Act of 2009	Gordon/15	2/24/09 introduced. Rptd by Committee on Science and Technology. <b>4/23/09 - Passed in the House. Rpt 111-76.</b> Read twice in Senate and referred to Committee on Environment and Public Works.	Directs the President to: (1) implement a National Water Research and Development Initiative to improve the federal government's role in designing and implementing federal water research, development, demonstration, data collection and dissemination, education, and technology transfer activities to address changes in U.S. water use, quality, supply, and demand; and (2) establish or designate an interagency committee to implement the Initiative. - Requires the committee to: (1) develop a National Water Research and Assessment Plan in coordination with state, local, and tribal governments; (2) coordinate all water-related federal research, development, demonstration, data collection and dissemination, education, and technology transfer activities; (3) encourage cooperation among federal agencies and state, local, and tribal governments;... (4) facilitate technology transfer, communication, and opportunities for information exchange with various parties through a National Water Initiative Coordination Office (to be established by the President to provide technical and administrative support to the committee);... (7) require each agency that conducts water-related research or has authority over resources that affect water supply to identify the statutory or regulatory barriers preventing the use of any technology, technique, data collection method, or model that would contribute to greater availability of water resources in the United States ... - Requirements for the Plan include: (1) establish priorities for...research;... (4) set forth a strategy and timeline... including implementation of a National Water Census, development of a new generation of water monitoring techniques and technologies, and analyses of the social, behavioral, and economic barriers to sustainable use of water resources in the United States; ... - Requires: (1) the Director of the Office of Science and Technology Policy to submit to Congress an evaluation of the budget as it relates to federal water research and the success of the interagency committee in meeting the desired outcomes; and (2) the interagency committee to coordinate the activities of the Initiative with the U.S. Global Change Research Program.	H. Res 352	Water, Research

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HR 1404	Federal Land Assistance, Management and Enhancement Act or FLAME Act (Incorporated in large part into H.R. 2996 which became public law on 10/30/09)	Rahall/15	3/10/09 introduced. <b>3/26/09 - Passed in the House.</b> Read twice in Senate and referred to Committee on Energy and Natural Resources. 7/21/09 Comm. on Energy and Natural Resources hearings held.	Establishes in the Treasury the Federal Land Assistance, Management, and Enhancement Fund (Flame Fund). - Requires amounts in the Flame Fund to be made available to the Secretary of the Interior and the Secretary of Agriculture (the Secretaries) to pay the costs of catastrophic emergency wildland fire suppression activities that are separate from amounts annually appropriated for the predicted annual workload for such activities. - Requires that such authorized suppression activities include containment activities in response to crisis insect infestations to reduce the likelihood of wildfires. (Sec 3) Requires the Secretaries to submit a report to Congress that contains a cohesive wildland fire management strategy. Sets forth required elements of the strategy some of which include: a system to assess the impacts of climate change on the frequency and severity of wildland fire and a system to study the effects of invasive species on wildland fire risk. - Directs the Secretaries to submit to Congress, at least once every five years, a revised strategy that considers changes to factors such as landscape, vegetation, climate, and weather. (Sec. 4) Directs the Secretaries to conduct a review, using independent panels, of each wild fire incident for which expenses exceeding \$10 million. (Sec. 5) Directs the Secretaries to develop regional maps of communities most at risk of wildfire and in need of hazardous fuel treatment and maintenance. Authorizes the Secretaries to provide cost-share grants to fire-ready communities.	H.Res 281, <b>S. 561</b>	Wildfire, Forest, Fed Lands
H.AMDT 56	Assess impacts of Climate Change on wildland fires	Heinrich	3/26/09 offered. <b>Agreed to by voice vote.</b>	Amends HR 1404. Amendment requires the cohesive wildland fire management strategy in the bill to include among its elements a system to assess the impacts of climate change on the frequency and severity of wildland fires.	H.R. 1404	Wildfire, Forest
H.R. 1612	Public Lands Service Corp Act of 2009	Grijalva/64	3/19/09 introduced. 3/20/10 <b>Passed in the House.</b> 7/21/10 Senate ordered to be reported in the nature of a substitute amendment.	Amends the Public Lands Corps Act of 1993 to expand the authorization of the Secretaries of Agriculture, Commerce, and the Interior to provide service-learning opportunities on public lands. Defines authorized projects to include: (A) protection, restoration, or enhancement of ecosystem components to promote species recovery, improve biological diversity, enhance productivity and carbon sequestration, and enhance adaptability and resilience of public lands and resources in the face of climate change and other natural and human disturbances; (B) promoting the health of forests and public lands, refuges, and coastal and marine areas, including-- (i) protection and restoration of watersheds and forest, riparian, estuarine, grassland, coral reef, intertidal, or other habitat; (ii) reduction of wildfire risk and mitigation of damage from insects, disease, and disasters; (iii) erosion control; (iv) control or removal of invasive, noxious, or non-native species; (v) restoration of native species; and (vi) projects under the Healthy Forests Restoration Act of 2003 (Public Law 108-148).	H. RES 1192, <b>S. 1442</b>	Forestry, Culture
H.R. 1771	Chesapeake Bay Science, Education and Ecosystem Enhancement Act of 2009	Sarbanes / 3	3/26/09 introduced. 9/30/09 <b>Passed in the House.</b> Rpt 111-271. 10/1/09 Received in the Senate and referred to Commerce, Science and Transportation Comm.	Amends the National Oceanic and Atmospheric Administration Authorization Act of 1992 to revise research, management, and program provisions of the Chesapeake Bay Office of the National Oceanic and Atmospheric Administration (NOAA). Authorizes FY2011- FY2014 appropriations for the Office and related activities.	<b>S. 1224</b>	Coastal
H.R. 1905	Coastal States Climate Change Planning Act of 2009	Capps/3	4/2/09 introduced. 4/13/09 referred to subcommittee on Insular Affairs, Oceans and Wildlife.	Amends the Coastal Zone Management Act of 1972 to establish a coastal climate change adaptation planning and response program to provide assistance to coastal states to voluntarily develop coastal climate change adaptation plans and to provide financial and technical assistance and training to enable coastal states to implement those plans through coastal states' enforceable policies.  Authorizes, subject to the availability of appropriations, grants to coastal states for developing the plans and grants for implementation.		Coastal Mgmt, Planning

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HR 2030	Senator Paul Simon Water for the World Act of 2009	Blumenauer / 75	4/22/09 introduced. Referred to House Committee on Foreign Affairs.	Amends the Senator Paul Simon Water for the Poor Act of 2005 to, among other things, require the report regarding water for peace and security to include an assessment of political tensions over water sources and a multidisciplinary assessment of the expected impacts of global climate change on water supplies in 10, 25, and 50 years.	S. 624	Water, International
HR 2093	Clean Coastal Environment and Public Health Act of 2009	Pallone / 27	4/23/09 introduced. <b>7/29/09 Passed in the House</b> as amended. Rpt 111-214. 8/7/09 referred to Senate Committee on Environment and Public Works.	- A bill to enhance monitoring and notification programs for coastal recreation waters for pathogenic contamination. Among other things, it requires the EPA to study and report to Congress on: the long-term impact of climate change on pathogenic contamination of coastal recreation waters; and to conduct and report on a study to review the available scientific information pertaining to the impacts of excess nutrients on coastal recreation waters. The bill also authorizes appropriations to carry out the Beaches Environmental Assessment and Coastal Health Act of 2000 through FY2014.	S. 878	Coastal, Public Health
HR 2192	Climate Change Safeguards for Natural Resources Conservation Act	Grijalva/10	4/30/09 introduced. 5/5/09 referred to Science and Tech subcommittee on Energy and Environment. 6/22 Referred to 2 Agriculture subcommittees.	<p>Purpose: to establish an integrated Federal program to protect, restore, and conserve the Nation's natural resources in response to the threats of climate change and ocean acidification.</p> <ul style="list-style-type: none"> <li>- Requires the President to establish: (1) a national Natural Resources Climate Change Adaptation Strategy to protect, restore, and conserve natural resources to enable them to become more resilient, adapt to, and withstand the impacts of climate change and ocean acidification and to identify opportunities to mitigate those impacts; and (2) a Natural Resources Climate Change Adaptation Panel to serve as a forum for interagency consultation on and the coordination of the development and implementation of such Strategy.</li> <li>- Requires agencies to complete and revise every five years an adaptation plan implementing such Strategy.</li> <li>- Directs the Chair of the Council of Environmental Quality to: (1) chair the Panel; (2) advise the President on the Strategy and agency adaptation plans; and (3) coordinate agency natural resources actions in response to climate change and ocean acidification.</li> <li>- Requires the Secretaries of Commerce and the Interior to: (1) establish a coordinated process for developing and providing science and information needed to assess and address the impacts of climate change and ocean acidification on natural resources; (2) undertake a climate change and ocean acidification impact survey; and (3) establish a Science Advisory Board to advise the Secretaries on state-of-the-art science regarding the impacts of climate change and ocean acidification on natural resources and on scientific strategies and mechanisms for protecting, restoring, and conserving natural resources.</li> <li>- Requires the Secretary of the Interior to: (1) establish the National Climate Change and Wildlife Science Center within the U.S. Geological Survey (USGS); (2) establish a National Fish and Wildlife Habitat and Corridors Information Program; and (3) develop a Habitat and Corridors Information System.</li> <li>- Establishes in the Treasury the Natural Resources Climate Change Adaptation Account. Requires each state, in order to be eligible for funding from such Account, to prepare and update every five years a natural resources adaptation plan to address the potential impacts of climate change and ocean acidification on its natural resources and coastal areas. Provides for the allocation of such Account funds for specified state and federal natural resources adaptation activities.</li> </ul>	H.R. 2454	Natural Resources

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HR 2306	National Climate Service Act of 2009	Dicks / 0	5/7/09 introduced and referred to House Committee on Science and Technology. 5/18/09 referred to Subcommittee on Energy and Environment.	<p>Purpose: To establish a National Climate Service that will assist the Nation and the world in understanding, anticipating, and responding to climate, climate change, and climate variability and their impacts and implications. The Service shall inform the public through the sustained production and delivery of authoritative, timely, useful information about impacts on local, State, regional, tribal, national, and global scales. The Service shall be user-centric, by ensuring that the information is accessible, consistent with users' ability to respond, and based on user needs and limitations. The Service shall provide such usable information through a sustained network of observations, modeling, and research activities.</p> <p>Sec. 4 Establishes a National Climate Service within the Climate Program Office of NOAA, to include a national center and a network of regional and local facilities for operational climate observation, modeling and research. Specific services listed include being a clearinghouse and technical information source, providing decision-support tools, and proposing and evaluating adaptation strategies for climate variability and change. In addition to many specific functions included in the bill, is the requirement to "identify climate-related vulnerabilities and build national capacity to build resilience." The bill also calls for a National Climate Service Advisory Council to help establish priorities and enhance coordination, with members from Federal, State, and local governments, universities, and nongovernment and private sectors that are users of the information and provide representation of sectors such as: water, drought, fisheries, coastal, agriculture, health, natural resources, transportation and insurance. Appropriations are authorized for 5 years beginning 2011 at \$300M, 350M, 400M, 450M, and 500M respectfully.</p>		Climate Science, Climate Services, Assessments, Planning, Research
HR 2323	Climate Change Health Protection and Promotion Act	Capps/2	5/7/09 introduced. Referred to Committee on Energy and Commerce.	<p>Requires the Secretary of Health and Human Services, within 2 years after the date of the enactment of this Act, on the basis of the best available science, and in consultation with CDC, EPA, NIH, DOE, other federal agencies, State and local governments, Indian tribes, public health organizations, scientists and other stakeholders, to publish a strategic action plan to assist health professionals in preparing for and responding to the impacts of climate change on public health in the United States and other nations, particularly developing nations. Plan content requirements are specified in areas such as disease surveillance, communication strategies, predicting and monitoring tools, prioritization of vulnerable populations, academic and regional centers of excellence, etc.</p> <p>- Establishes a permanent Science Advisory Board to provide scientific and technical advice and recommendations regarding the impacts of climate change on public health and strategies and mechanisms to respond to such impacts, and so forth.</p>	H. R. 2454	Public Health
HR 2346	Supplemental Appropriations Act 2009	Obey / 0	5/12/09 introduced. 6/24/09 - became <b>Public Law 111-32</b> .	<p>Title IV: For 'Flood Control and Coastal Emergencies' expenses relating to the consequences of natural disasters. Directs the Secretary of the Army to use \$315,290,000 of the funds appropriated under this heading to support emergency operations, to repair eligible projects nationwide, and for other activities in response to natural disasters, and \$489,000,000 of the amount provided under this heading for barrier island restoration and ecosystem restoration to restore historic levels of storm damage reduction to the Mississippi Gulf Coast. Title VII: For Wildland Fire Management: \$50 million to DOI and \$200 million to the Forest Service for expenses for wildfire suppression and emergency rehabilitation activities.</p>	S. 1054	Coastal, Wildfire

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HR 2407	National Climate Service Act of 2009	Gordon / 0	5/14/09 introduced and referred to the House Committee on Science and Technology. 6/3/ Mark-up session held. Ordered to be reported.	<p>Purpose: To establish a National Climate Service within the National Oceanic and Atmospheric Administration to-- (1) advance understanding of climate variability and change at the global, national, and regional levels;(2) provide forecasts, warnings, and other information to the public on variability and change in weather and climate; and(3) support development of adaptation and response plans by Federal agencies, State, local, and tribal governments, the private sector, and the public.</p> <ul style="list-style-type: none"> <li>- Establishes a Climate Service Office to provide internal oversight of the NCS including: coordination of programs within NOAA, ensuring the exchange of information between research and operational offices within NOAA, quality control, ensuring timely delivery of NOAA weather and climate information to other Federal agencies and that information collected by other Federal agencies is provided to NOAA, coordination and collaboration with other stakeholders (state, local and tribal governments, private sector, NGOs), and ensure exchange of data, information and research with USGCRP.</li> <li>- Establishes a National Climate Service. Calls for a national center as well as a network of regional and local facilities, specifically calling for 6 Regional Climate Centers to work with the offices of State climatologists to support research and observations as well as to represent stakeholder needs and support State and local adaptation planning. It further defines the functions of the RISAs in the areas of research, development and demonstration projects to support adaptation planning and action at local levels and within specific sectors. It further defines other existing offices and programs within NOAA, including the NWS and NIDIS.</li> <li>- Creates a Climate Services Advisory Committee with a Subcommittee on Science and Technology to advise on needed research, technology and observation systems, and a Subcommittee on Product Development and Delivery, comprised primarily of potential users of NCS products and services.</li> <li>- Repeals the National Climate Program Act.</li> <li>- Establishes RISA Teams using a competitive award program to "conduct applied regional climate research and projects to address the needs of local and regional decisionmakers for information and tools to develop adaptation and response plans to climate variability and change."</li> <li>- Requires the creation of a Needs Survey from current and potential future users and stakeholders of NCS products and services.</li> </ul>		Climate Science, Climate Services, Assessments, Planning, Research

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HR 2454	American Clean Energy and Security Act of 2009	Waxman/1	5/15/09 introduced. Referred to the Committee on Energy and Commerce, and in addition to the Committees on Foreign Affairs, Financial Services, Education and Labor, Science and Technology, Transportation and Infrastructure, Natural Resources, Agriculture, and Ways and Means. <b>6/26/09 - Passed in the House. Rpt 111-37.</b> 7/7 - Placed on Senate Calendar No 97.	Subtitle E - Adaptation Subpart-A National Climate Change Adaptation Program. 451. Contains provisions to address Global Change research and information needs including an Assessment Plan, Policy Assessments and Information Exchange. Also calls for USGCRP to complete Vulnerability Assessments every 5 years. 452. Establishes a Climate Service Program within NOAA to advance understanding of climate change, provide information to the public and support development of adaptation and response plans. Defines regional roles and other provisions. 453. Distributes allowances to State governments based on population and per capita income relative to the U.S., for adaptation projects. Requires States to create, and have approved, a State Adaptation Plan every 5 years in order to receive allowances for projects. - Subpart B - Public Health 463. Requires the Sect of HHS to issue a national strategic action plan to assist health professionals in preparing for and responding to the impacts of climate change on public health in the U.S. and other nations. Other sections address a Science Advisory Board and Reporting. - Subpart C- Natural Resources - 474. Assigns CEQ the oversight role of: • Advising the President on the Natural Resources Climate Change Adaptation Strategy and Federal agency natural resources adaptation plans, • Chairing the Natural Resources Climate Change Adaptation Panel; and • Coordinating Federal agency strategies, plans, programs, etc. as it pertains to natural resources adaptation.475. Establishes a Natural Resources Climate Change Adaptation Panel, chaired by CEQ, with members from: NOAA, Forest Service, National Park Service, U.S. F&W, BLM, USGS, Bureau of Recl., Bureau of Indian Affairs, EPA, Army Corp of Engineers, Chair of CEQ, others as appropriate. 476. Requires the Panel to create a Natural Resources Climate Change Adaptation Strategy. 478. Requires Federal department and agency adaptation plans. 479. In order to be eligible for state adaptation funds, states must create a State natural resource adaptation plan. 480. Detailed funding provisions are included.481. Requires the Sect of Interior in coordination with States and Indian tribes, to establish a National Fish and Wildlife Habitat and Corridors Information Program. Title VII, Part A - Requires EPA to develop an Impact Assessment Report every 4 years, reporting on the status of federal GHG reduction and adaptation efforts.	H. Res 587, H.R. 2998, <b>S. 1733</b>	National Adaptation Program, Research, National Climate Service, State Adaptation Programs, Natural Resources, Public Health, Water, Wildfires, Coastal / Great Lakes, Flood, International
HR 2455	International Whale Conservation and Protection Act 2009	Faleomavaega / 69	5/18/09 introduced. Referred to Committees: Foreign Affairs, Natural Resources (sub-comm. on Insular Affairs, Oceans and Wildlife), Ways and Means, Transportation and Infrastructure (sub-comm on Coast Guard and Maritime Trans).	Amends the Whale Conservation and Protection Study Act to promote international whale conservation, protection, and research, and for other purposes. Sec. 4 Establishes comprehensive research initiatives to improve knowledge about the world's whales in order to enhance whale conservation efforts, including information on ecosystem changes due to climate warming.		Wildlife, Research
HR 2507	Native American Challenge Demonstration Project Act of 2009	Young / 2	5/19/09 introduced. Referred to Committee on Natural Resources.	Directs the Secretary of Commerce to establish and implement the Native American Millennium Challenge Demonstration Project through which federal economic development assistance may be provided for certain Native American communities. Requires such Compacts to establish a multiyear plan for achieving certain development objectives, including among other things, enhancing the capacity of Alaska Native communities to deal with climate change.	S. 980	Alaska communities
HR 2569	To reauthorize surface transportation research, development, and technology transfer activities, and for other purposes.	Wu / 4	5/21/09 introduced. 7/15/09 Subcommittee on Technology and Innovation mark-up held and passed by voice vote out to full Committee amended.	Moves the Department of Transportation's Office of Energy and Climate Change in to the Research and Innovative Technology Administration (RIST). Directs the Office to fund or coordinate research on the impacts of climate change on surface transportation infrastructure to understand and assess how climate change and variability may affect transportation operation and infrastructure.		Transportation Infrastructure, Research

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HR 2685	Climate and Ocean Research and Coordination Act	Bordallo / 15	6/3/09 introduced. Referred to the House Natural Resources sub-comm. on Insular Affairs, Oceans and Wildlife, and House Science and Technology sub-comm. on Energy and Environment.	Climate and Ocean Research and Coordination Act - Reestablishes the National Oceanic and Atmospheric Administration (NOAA) and its leadership. (NOAA was created by the Reorganization Plan No. 4 of 1970.) Includes in NOAA the National Weather Service and the Science Advisory Board. National Climate Enterprise Act of 2009 - Directs the President to establish a National Climate Enterprise to coordinate international, federal, and nonfederal activity to provide scientifically based climate and climate impact data, information, products, and services to better forecast climate, climate change, and climate variability and to understand climate impacts at regional and local scales. Requires that the Enterprise consist of an Interdepartmental Oversight Board, and Interagency Coordinating Committee, and a Climate Operations Office established by this Act, and nonfederal contributors.		Climate Science, National Climate Service, Assessments, Planning
HR 2729	To authorize the designation of National Environmental Research Parks by the Secretary of Energy, and for other purposes.	Lujan / 5	6/4/09 introduced. 7/21/09 Passed in the House. Rpt 111-207, 12/8/09 hearings held by Senate Committee on Energy and Natural Resources sub-comm on Energy.	Directs the Secretary of Energy to designate seven National Environmental Research Parks located on Department of Energy sites as permanent protected outdoor research reserves for the purposes of conducting long-term environmental research on the impacts of human activities on the natural environment. Areas of research and monitoring on the sites may include-- (A) ecology of the site and the region; (B) population biology and ecology; (C) radioecology; (D) effects of climate variability and change on ecosystems; (E) ecosystem science; (F) pollution fate and transport research; (G) surface and groundwater modeling; and (H) environmental impacts of development and use of energy generation technologies, including renewable energy technologies. Appropriations: There are authorized to be appropriated to the Secretary of Energy, acting through the Director of the Office of Science, \$35,000,000, including \$5,000,000 for each National Environmental Research Park, for each of the fiscal years 2010 through 2014.		Ecosystems, Research, Energy
HR 2969	Water System Adaptation Partnership Act	Capps / 27	6/19/09 introduced. Referred to House Transportation and Infrastructure sub-comm on Water Resources and Environment, and House Energy and Commerce Committee.	Authorizes the EPA to establish water system adaptation partnerships. Authorizes the EPA to make competitive grants to water systems (drinking water, storm sewer systems or combined sewer systems) to assist in planning, designing, constructing, implementing, or maintaining any program, strategy, or infrastructure improvement for the purposes of water efficiency (conservation, management, protection), improving water supply or water quality. Includes a 50% cost sharing provision to the States. Grants cannot be distributed for water systems projects, strategies or infrastructure already receiving federal funds for the same purpose(s).		Water, Infrastructure
HR 2977	To direct the Secretary of the Interior, ....with the National Academy of Sciences to conduct a comprehensive study of sustainable water and environmental management in the Sacramento-San Joaquin Delta, California, and for other purposes	Costa / 4	6/19/09 introduced. Referred to the Committee on Natural Resources.	Directs the Secretary of the Interior, acting through the Bureau of Reclamation, to offer to, and if the National Academy of Sciences (NAS) agrees, to enter into an agreement with NAS to conduct a study to help ensure the scientific basis of plans for management of the Sacramento-San Joaquin Delta, California, to help maintain and restore the estuary while enhancing the quality and reliability of California's water supply. Appropriates \$900,000 for this subsection.  Authorizes the Secretary, acting through the Bureau, to commission additional studies by NAS to provide more strategic advice on water and environmental management challenges facing the Delta, including identifying options for future water supplies for the region and state that reflect proper consideration for climate change and compatibility with objectives of maintaining a healthy Delta hydroecosystems..		Water

# Congressional Bills Addressing Climate Change Adaptation<sup>1</sup>

## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
HR 2996	Department of the Interior, Environment, and Related Agencies Appropriations Act, 2010	Dicks / 0	6/23/09 introduced. 10/30/09 became <b>Public Law 111-88</b> .	Title IV - (Sec. 426) Directs the President, within 120 days of submission of the President's FY2011 budget to Congress, to submit a report to the House and Senate Appropriations Committees detailing all federal agency obligations and expenditures, domestic, and international, for climate change programs and activities in FY2009-FY2010, including an accounting of expenditures identifying climate change activities and associated costs. Title V: Flame Act of 2009 - Federal Land Assistance, Management, and Enhancement Act of 2009 or FLAME Act of 2009 - (Sec. 502) Establishes in the Treasury separate FLAME Wildfire Suppression Reserve Funds for the Departments of the Interior and Agriculture to be available to cover the costs of large or complex wildfires and as a reserve when amounts for wildfire suppression and federal emergency response in the Wildland Fire Management appropriation accounts are exhausted. Requires the Secretaries to submit a report to Congress that contains a cohesive wildfire management strategy, consistent with the recommendations of recent Government Accountability Office (GAO) reports regarding management strategies. Sets forth required elements of the strategy, including assessing the impacts of climate change on the frequency and severity of wildfire; and studying the effects of invasive species on wildfire risk. Directs the Secretaries to submit a revised strategy at least once every 5 years that considers changes to factors such as landscape, vegetation, climate and weather. [Note: This bill does not include the provisions associated with "Fire Ready Communities" which are included in both S. 561 and H.R. 1404.]	H. RES 578, H. RES 876. Also see H.R. 1404 and S. 561.	Federal agencies, Wildfire, Invasive species
HR 2998	American Clean Energy and Security Act of 2009	Waxman / 1	6/23/09 introduced. Referred to the Committee on Energy and Commerce, and in addition to the Committees on Foreign Affairs, Ways and Means, Financial Services, Education and Labor, Science and Technology, Transportation and Infrastructure, Natural Resources, Agriculture, Oversight and Government Reform, and the Judiciary	See H.R. 2454	H.R. 2454, S. 1733	National Adaptation Program, Research, National Climate Service, Natural Resources, Public Health, International
HR 3032	Climate Change Center and Clearinghouse Act of 2009	Welch / 1	6/24/09 introduced and referred to the Small Business Committee.	Establishes within the Office of Environment, Energy, and Climate Change an office to be known as the Climate Change Center and Clearinghouse. Directs the Center, to among other items, provide scientific, economic and technical information to small business concerns on assessing and managing the technical, economic, and business impacts of climate change.		Small Business
HR 3081	Dept. of State, Foreign Operations, and Related Programs Appropriations Act of 2010	Lowey / 0	6/26/09 introduced. <b>7/9/09 - Passed in the House. Rpt 111-187.</b> 7/13/09 placed on Senate Legislative Calendar No. 107.	Sec 7081. Authorizes funds for the Least Developed Countries Fund and to the Special Climate Change Fund for climate change adaptation programs.	H. Res 617, H.R. 3288, <b>S. 1434</b>	International

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## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
HR 3183	Energy and Water Development and Related Agencies Appropriations Act, 2010	Pastor / 0	7/13/09 introduced. 10/28/09 became <b>Public Law 111-85</b> .	Title I-Corp of Engineers-Civil - Makes appropriations for FY2010 to the Department of the Army, Corps of Engineers- Civil, for among other things, civil functions pertaining to rivers and harbors, flood and storm damage reduction, shore protection, and aquatic ecosystem restoration. (Sec. 116) Authorizes the Secretary to carry out structural and nonstructural projects for storm damage prevention and reduction, coastal erosion, and ice and glacial damage in Alaska, including the relocation of affected communities and construction of replacement facilities. Title II: Department of the Interior - Makes appropriations for FY2010 to the Department of the Interior for: (1) the Central Utah Project; and (2) the Bureau of Reclamation, including water and related natural resources, the Central Valley Project Restoration Fund, and the California Bay-Delta Restoration.	H Res. 645, H. Res 788, and S. 1436	Coastal Mgmt, Water, Natural Resources
HR 3202	Water Protection and Reinvestment Act of 2009	Blumenauer / 39	7/14/09 introduced. Referred to Transportation and Infrastructure, Energy and Commerce, Ways and Means, and Science and Technology Committees.	Establishes and funds a Water Protection and Reinvestment Trust Fund in the U.S. Treasury for purposes of investments in clean water and drinking water infrastructure. Directs the EPA to allocate funds primarily through capitalization grants to states under the Federal Water Pollution Control Act (48%) and the Safe Drinking Water Act (35%). 1% is allocated for climate change and adaptation grants (Sec 403). 5% for carrying out sections 406, 407, and 408 relating to the national water infrastructure research, development, and demonstration program, regional water research centers, and a cost of service study. Sec. 403 Creates a competitive grant program to support efforts by publicly owned treatment works and community water systems to among other things, mitigate the impacts of climate change, including: sustainable practices that minimize the adverse environmental impacts of climate change on water quality and quantity, and projects that increase the ability of publicly owned treatment works or community water systems to withstand the impacts of climate change. Federal cost share of grants is set at 65%. Grants in this section are limited to \$2 million. Sec. 406 Establishes a national water infrastructure research, development, and demonstration program to develop, demonstrate, and transfer innovative or improved technologies and methods for the treatment, control, transport, and reuse of drinking water and wastewater, including for the purposes of mitigating and adapting to climate change. Sec. 407 Directs the Administrator, in collaboration with the Director of the National Science Foundation, to make grants to nonprofit institutions of higher learning to establish and operate one university water research center in each of 21 hydro-regions established by the Administrator, in consultation with the United States Geological Survey, for the purpose of conducting and coordinating strategic research, education, and outreach for sustainable management of water resources in every hydro-climatic region of the United States. Establishes a National Water Research Center to gather, archive, and publish data from the regional centers and to integrate the regional findings into a national research strategy.		Water, Infrastructure
HR 3598	Energy and Water Research Integration Act	Bart / 16	9/17/09 introduced. Referred to the Committee on Science and Technology. 12/1/09 <b>Passed in the House. Rpt 111-344.</b> 12/2/09 Received in the Senate and referred to the Committee on Energy and Natural Resources.	Sec. 2 Directs the Secretary of Energy to identify each of the Department of Energy's (DOE's) energy research, development, and demonstration programs and projects into which it is appropriate to integrate water considerations. Requires the Secretary to: (1) seek to advance energy and energy efficiency technologies and practices that would minimize freshwater withdrawal and consumption, increase water use efficiency, and utilize nontraditional water sources with efforts to improve water quality; and (2) consider the effects climate variability and change may have on water supplies and quality for energy generation and fuel production; and (3) improve understanding of the energy required to provide water supplies and the water required to provide reliable energy supplies throughout the United States. Requires the Secretary to develop, submit to Congress within nine months, and update every three years a Strategic Plan outlining the research, development, and demonstration needs of such programs and projects. Requires the Secretary to: (1) implement the Strategic Plan in carrying out DOE energy research, development, and demonstration programs; and (2) report to Congress every two years on findings and activities under this Act. Authorizes appropriations. Sec. 3 Directs the Secretary to establish an Energy-Water Architecture Council to promote and enable improved energy and water resource data collection, reporting, and technological innovation. Sec. 6 Directs the Secretary to coordinate activities under this Act with other DOE programs and other federal research programs.		Energy, Water, Research

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## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
HR 3644	Oceans, Coastal and Watershed Education Act	Capps / 30	9/24/09 introduced. <b>3/19/10 passed in the House. Rpt 111-392.</b> 3/21/10 received in the Senate and referred to the Committee on Commerce, Science and Transportation.	Directs the National Oceanic and Atmospheric Administration (NOAA) to establish education and watershed programs which advance environmental literacy, including preparedness and adaptability for the likely impacts of climate change in coastal watershed regions. through NOAA's Environmental Literacy Grant (ELG) and B-Wet (Bay-Watershed Education and Training) Programs.	H. RES 1192	Ocean, Coastal, Water
HR 3650	Harmful Algal Blooms and Hypoxia Research and Control Amendments Act of 2009	Baird / 39	9/25/09 introduced. <b>3/12/10 passed in the House. Rpt 111-396.</b> 3/15 received in the Senate. Placed on Legislative Calendar. Cal. No 318.	Amends the Harmful Algal Bloom and Hypoxia Research and Control Act of 1998 to direct the Under Secretary of Commerce for Oceans and Atmosphere, through the Inter-Agency Task Force on Harmful Algal Blooms and Hypoxia (Task Force) established by such Act, to establish and maintain a National Harmful Algal Bloom and Hypoxia Program to, among other things, develop a national strategy to address marine and freshwater harmful algal bloom and hypoxia events. Directs the Task Force to oversee the development and implementation of regional research and action plans for addressing marine and freshwater harmful algal bloom and hypoxia events; and identify the appropriate regions and sub regions to be addressed by such plans. Defines requirements for Progress Reports against the 2008 Gulf Hypoxia Action Plan. Defines requirements for a Hypoxia Assessment Report for the Pacific Northwest coastal and estuarine waters. Appropriations: \$35 million to the Under Secretary of Commerce (breakdown defined in the bill) and \$6 million to the Administrator (EPA) for each of the fiscal years 2010-2014.	H. RES 1168, <b>S. 952</b>	Coastal, Public Health
HR 3727	Drinking Water Adaptation, Technology, Education, and Research (WATER) Act	DeGette/ 9	10/6/09 introduced. Referred to the Committee on Science and Technology sub-comm on Energy and Environment.	Requires the Administrator of the Environmental Protection Agency (EPA) to establish and provide funding for a program of directed and applied research, to be conducted through a nonprofit water research foundation and sponsored by drinking water utilities, to assist the utilities in adapting to the effects of climate change.  Requires research areas to include: (1) water quality impacts and solutions; (2) impacts on groundwater supplies from carbon sequestration; (3) water quantity impacts and solutions; (4) infrastructure impacts and solutions for water treatment and wastewater treatment facilities and underground pipelines; (5) desalination, water reuse, and alternative supply technologies; (6) energy efficiency and greenhouse gas minimization; (7) regional and hydrological basin cooperative water management solutions; (8) utility management, decision support systems, and water management models; (9) greenhouse gas emissions reduction and improvement of energy demand management; (10) water conservation and demand management; and (11) communications, education, and public acceptance	<b>S. 1035</b>	Water, Research
H.R. 3747	Water Efficiency, Conservation, and Adaptation Act of 2009	Berkley / 1	10/7/09 introduced. Referred to the Committees on Energy and Commerce, Transportation and Infrastructure, and Natural Resources.	Authorizes the EPA to make grants to owners or operators of water systems (defined in the bill) to address any ongoing or forecasted (based on the best available research and data) climate-related impact on the water quality or quantity of a region of the United States, for the purposes of mitigating or adapting to the impacts of climate change. Grants can be used to assist in the planning, design, construction, implementation, or maintenance of any program or project to increase the resilience of a water system to climate change. Grants are subject to a 50% cost sharing limitation.	<b>S. 1712</b>	Water
H.R. 4225	To authorize drought assistance adjustments... related to the drought in California.	Costa / 1	12/8/09 introduced. Referred to House Committee on Natural Resources, sub-comm on Water and Power. <b>2/4/10 hearings held.</b>	Authorizes the Secretary of the Interior to use funds provided by the American Recovery and Reinvestment Act of 2009 or appropriation measures through fiscal year 2012 for any required non-Federal share of the cost of eligible projects (defined in the bill) in an area that has been identified by the U.S. Drought Monitor as experiencing Severe, Extreme, or Exceptional Drought within the 24 months prior to the date of the enactment of this Act; or has been designated as a disaster area by the State of California during calendar year 2009.		Drought

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Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
H.R. 4287	Enhancing Livability for All Americans Act of 2009	Cohen / 7	12/11/09 introduced. Referred to Transportation and Infrastructure subcommittees on Coast Guard and Maritime, Highways and Transit, and Railroads, Pipelines and Hazardous Material.	This bill recognizes the impact from the transportation sector on greenhouse gas emissions and public health and safety, specifically noting impacts to air and water quality. The bill establishes an Office of Livability in the Office of the Secretary of Transportation to: 1) provide funding, leadership, and support for transportation projects, planning, and policies at all levels of government that enhance livability; and 2) work to create and maintain a safe, reliable, integrated, and accessible transportation network that improves the economic and social well-being of the people of the United States by enhancing choices for transportation users.		Transportation, Public Health, Air
HR 4715	Clean Estuaries Act of 2010	Bishop / 1	3/2/10 introduced. 4/15/10 passed in the House. Rpt 111-442. 4/19/10 received in the Senate and referred to the Comm. on Environment and Public Works. 6/30 Ordered to be reported with an amendment in the nature of a substitute favorably.	Amends the Federal Water Pollution Control Act (commonly known as the Clean Water Act) to reauthorize the National Estuary Program. Revises the purpose of management conferences convened with respect to estuaries to expand requirements governing a comprehensive conservation and management plan. The plan must now, among other things, address the impacts of climate change on the estuary. Additionally, the bill requires the heads of USACE, NOAA, Fish and Wildlife Service, the Natural Resources Conservation Service, and other appropriate federal agencies to: (1) cooperate and coordinate activities, including monitoring activities, related to the implementation of such plans; and (2) collaborate on the development of tools and methodologies for monitoring the ecological health and water quality conditions of estuaries covered by a management conference. Makes EPA the lead coordinating agency for implementing plans. The bill also revises the definition of "estuary" and "estuarine zones".	H. RES 1248, H. AMDT 595, H. AMDT 597, H. AMDT 598, H. AMDT 601, S. 3540	Water
H.R. 5061	San Francisco Bay Improvement Act of 2010	Speier / 10	4/15/10 introduced. Referred to Transportation and Infrastructure subcommittee on Water Resources and Environment, and the House Budget Committee.	Amends the Federal Water Pollution Control Act to provide assistance for programs and activities to protect the water quality of the San Francisco Bay. Requires the EPA to establish a San Francisco Bay Program Office in the EPA Region 9 office. Directs the Office to develop and implement a comprehensive conservation and management plan for the San Francisco Bay, and to among other roles, coordinate the major functions of the Federal Government related to the implementation of the comprehensive plan, including projects, programs, and studies with respect to (i) water quality improvement; (ii) wetland, riverine, and estuary restoration and protection; (iii) nearshore and endangered species recovery; and (iv) adaptation to climate change.		Water
H.R. 5783	Investing in Our Future Act of 2010	Stark/ 3	7/20/10 introduced. Referred to Ways and Means and Foreign Affairs.	Imposes a tax on currency transactions made by U.S. person that amounts to over \$10,000 in a single year to help fund among other items, a Global Climate Change Adaptation and Mitigation Trust Fund and associated grant program.		International Aid
H.R. 5892	Water Resources Development Act	Oberstar / Johnson	7/28/10 introduced. Referred to House Transportation and Infrastructure.	Provides an estimated \$6 billion for approximately 300 water projects directed at navigation, flood control, environmental restoration, shoreline protection, and water supply. While the WRDA is supposed to be passed every 2 years, it was last enacted in 2007, and before that, 2000.		Water
S. 22	Omnibus Public Land Management Act of 2009	Bingaman	For further action, see HR 146 which became Public Law 111-11 on 3/30/09.	A bill to designate certain land as components of the National Wilderness Preservation System, to authorize certain programs and activities in the Department of the Interior and the Department of Agriculture, and for other purposes. See HR 146 above.	H.R. 146 (Passed, became Public Law)	Forest, Water
S. 173	Federal Ocean Acidification Research And Monitoring Act of 2009 or FOARAM Act	Lautenberg / 7	1/8/09 introduced. Referred to the Committee on Commerce, Science and Transportation.	Requires the Joint Subcommittee on Ocean Science and Technology of the National Science and Technology Council to coordinate federal activities on ocean acidification and establish an interagency working group.  Requires the Subcommittee to develop a strategic plan for federal ocean acidification research and monitoring that provides, among other things, for the development of adaptation and mitigation strategies.  Directs the Secretary to establish and maintain an ocean acidification program in NOAA to conduct research, monitoring, and other activities,	See H.R. 14	Ocean

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## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
S. 561	Federal Land Assistance, Management and Enhancement Act or FLAME Act (Incorporated in large part into H.R. 2996 which became public law on 10/30/09)	Bingaman / 14	3/10/09 introduced. Referred to the Committee on Energy and Natural Resources. 7/21/09 hearings held.	Establishes in the Treasury the Federal Land Assistance, Management, and Enhancement Fund (Flame Fund). - Requires amounts in the Flame Fund to be made available to the Secretary of the Interior and the Secretary of Agriculture (the Secretaries) to pay the costs of catastrophic emergency wildland fire suppression activities that are separate from amounts annually appropriated for the predicted annual workload for such activities. - Requires the Secretaries to submit a report to Congress that contains a cohesive wildland fire management strategy. Contents of the Strategy differ in S. 561 than from H.R. 1404 (e.g. S. 561 does not require an assessment of climate change impacts on wildfire frequency, nor an assessment of invasive species on wildfire risk). - Directs the Secretaries to submit to Congress, at least once every five years, a revised strategy that considers changes to factors such as landscape, vegetation, climate, and weather. - Requires the Secretaries to conduct a review of wildfires for which expenses exceeding \$10 million were incurred. - Authorizes the Secretaries to make grants to fire-ready communities, as defined by this Act, to carry out activities to reduce risks from wildfires.	H.R. 1404 (Passed)	Wildfire
S. 587	Western Hemisphere Energy Compact	Lugar / 0	3/12/09 introduced. Referred to the Committee on Foreign Relations.	Directs the Secretary of State, in coordination with the Secretary of Energy, to establish a ministerial forum with countries in the Western Hemisphere to be known as the Western Hemisphere Energy Cooperation Forum with the purpose of creating and implementing four initiatives. Of the four, one is a Climate Change Mitigation and Adaptation initiative where adaptation activities would include items such as: (B) identifying opportunities and facilitating mechanisms for forest preservation and reclamation; (D) identifying areas at severe risk for climate change, such as drought, flooding, and other environmental phenomena that could lead to crisis; (E) identifying areas in need of agricultural innovation to prepare for climate change, including using biotechnology where appropriate.		Forest, Agriculture, International
S. 601	Weather Mitigation Research and Development Policy Authorization Act of 2009	Hutchinson /	3/16/09 introduced. 7/22/09 reported with substitute amendment. 7/28 Committee hearings held.	Establishes in the Geosciences Directorate of the National Science Foundation (NSF) the Weather Mitigation Research Office to establish and coordinate the national research and development program on weather mitigation described in this Act. Requires the Director of NSF to coordinate the program with OSTP.		Weather mitigation
S. 624	Senator Paul Simon Water for the World Act of 2009	Durbin / 33	3/17/09 introduced. Referred to the Committee on Foreign Relations. 5/13/10 Reported as a substitute amendment. Placed on Keg Calendar. No 374.	Amends the Senator Paul Simon Water for the Poor Act of 2005 to, among other things, require the report regarding water for peace and security to include an assessment of political tensions over water sources and a multidisciplinary assessment of the expected impacts of global climate change on water supplies in 10, 25, and 50 years.	H.R. 2030	Water
S. 810	Ocean and Coastal Adaptation Planning Act	Whitehouse/0	4/2/09 introduced. Referred to the Committee on Commerce, Science and Transportation.	Tasks NOAA and the EPA to jointly establish 4 regional institutes, to be known as 'Institutes for Ocean and Coastal Adaptation to Climate Change', at institutions of higher education in the United States. The purpose of each Institute shall be (1) to conduct research, planning, and related efforts to assess, prepare for, and adapt to the ongoing and expected impacts of climate change and ocean acidification on ocean and coastal areas and resources, including the Great Lakes; and (2) to create centers of excellence--(A) to document and predict coastal and ocean effects of climate change and ocean acidification; and (B) to serve as principal national and international resources for technical expertise on adaptation strategies, including the enhancement and preservation of ecosystem and resource resilience, necessary for ocean and coastal areas to respond to the impacts of climate change and ocean acidification Identifies 4 regions: Northeast, Southeast, Western and Pacific, and Great Lakes. Funding to Institutes comes from grants from NOAA and EPA.		Oceans, Coastal Mgmt, Research

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## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
S 858	National Oceans Protection Act of 2009	Boxer/4	4/22/09 introduced and referred to the Committee on Commerce, Science and Transportation.	<p>Establishes a national ocean, coastal, and Great Lakes policy and outlines federal agency participation in such policy.</p> <ul style="list-style-type: none"> <li>-Formally establishes NOAA as a civilian agency.</li> <li>- Establishes: (1) a National Ocean Advisor and a Council on Ocean Stewardship in the Executive Office of the President; and (2) a Presidential Panel of Advisers on Oceans and Climate.</li> <li>- Designates nine ocean regions to promote coordinated regional efforts to implement the national ocean policy.</li> <li>- Requires the NOAA Administrator to establish or designate a Regional Ocean Partnership for each region comprised of federal, state, Fishery Management Council and Local government membership. Each Regional Partnership is required to prepare a Regional Assessment and a Ocean Strategic Plan.</li> <li>- Requires payments to coastal states for participation in regional assessments, plan development and plan implementation.</li> </ul> <p>Appropriations: For allocation to states - \$40m per yr 2011-13, \$60m per yr 2014-21; For Administrator - \$20m per yr 2011-21; For allocation for federal activity - \$30m 21014, \$40m 2015, \$50m yr 2016-2021.</p>	H.R. 21	Coastal, Oceans, Assessments, Planning
S. 878	Clean Coastal Environment and Public Health Act of 2009	Lautenberg / 6	4/23/09 introduced. Referred to Committee on Environment and Public Works. 6/18/09 Ordered to be reported with an amendment in the nature of a substitute. 4/20/10 Reported as a substitute amendment. Placed on Senate Leg. Calendar. No 353.	The bill enhances monitoring and notification programs for coastal recreation waters for pathogenic contamination. Among other things, the bill requires the EPA to study and report to Congress on: (1) the long-term impact of climate change on pollution of coastal recreation waters; and (2) the impact of algae on coastal recreation waters. This bill also authorizes appropriations for the 2000 BEACH Act through FY 2013,	H.R. 2093 (Passed)	Coastal, Public Health
S 952	Harmful Algal Blooms and Hypoxia Research and Control Amendments Act	Snowe- Nelson / 14	5/1/09 introduced. Referred to the Committee on Commerce, Science and Transportation. 8/5/09 Ordered to be reported with substitute amendment. 2/4/10 Reported and placed on Senate Leg. Calendar No. 271.	Amends the Harmful Algal Bloom and Hypoxia Research and Control Act of 1998. Requires the National Science and Technology Council to establish a national program (National Harmful Algal Bloom and Hypoxia Program) to integrate efforts to address hypoxia research, monitoring, prediction, control, mitigation, prevention, and outreach; and tasks NOAA to lead the Program. Defines the functions of the Interagency Task Force in its role as the oversight body for the development and implementation of the Program. Defines the duties and responsibilities of the Program, such as promoting a national strategy to help communities understand, detect, predict, control, and mitigate freshwater and marine hypoxia events. Directs the Program to oversee the development and implementation of Regional Research and Action Plans, and defines the required content of such plans including research, forecasting, modeling, and response actions. Establishes an Advisory Committee of non-governmental, state, tribal and educational institution representatives to make recommendations to the Task Force regarding the National Strategy and Regional Action Plans.	H.R. 3650 (Passed)	Oceans, Coastal, Research
S. 980	Native American Challenge Demonstration Project Act of 2009	Murkowski /3	5/5/09 introduced. Referred to the Committee on Indian Affairs.	Directs the Secretary of Commerce to establish and implement the Native American Millennium Challenge Demonstration Project through which federal economic development assistance may be provided for certain Native American communities that enter into Compacts. Requires such Compacts to establish a multiyear plan for achieving certain development objectives, including among other things, enhancing the capacity of Alaska Native communities to deal with climate change.	H.R. 2507	Alaska communities

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## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
S 1035	Drinking Water Adaptation, Technology, Education, and Research (WATER) Act	Reid/3	5/13/09 introduced. Referred to the Committee on Environment and Public Works.	Requires the Administrator of the EPA, in cooperation with the Sect of Commerce, the Sect of Energy, and the Sect of the Interior, to establish and provide funding for a program of directed and applied research, to be conducted through a nonprofit drinking water research foundation and sponsored by water utilities, to assist the utilities in adapting to the effects of climate change. Research areas include: water quality impacts and solutions; water quantity impacts and solutions; groundwater supply impacts from carbon sequestration; infrastructure impacts and solutions for water treatment, wastewater treatment and underground pipelines; desalination, water reuse and alternative supply technologies; and many others. Authorizes appropriations of \$25M/yr 2010-2020.	H.R. 3727	Water, Research
S. 1054	Supplemental Appropriations Act 2009	Inouye / 0	5/14/09 introduced. See H.R. 2346 which became public law on 6/24/09.	Title IV: For 'Flood Control and Coastal Emergencies' expenses relating to the consequences of natural disasters. Directs the Secretary of the Army to use \$315,290,000 of the funds appropriated under this heading to support emergency operations, to repair eligible projects nationwide, and for other activities in response to natural disasters, and \$489,000,000 of the amount provided under this heading for barrier island restoration and ecosystem restoration to restore historic levels of storm damage reduction to the Mississippi Gulf Coast. Title VII: For Wildland Fire Management: \$50 million to DOI and \$200 million to the Forest Service for expenses for wildfire suppression and emergency rehabilitation activities.	H.R. 2346 (Passed)	Wildfire, Coastal, Flooding
S. 1224	Chesapeake Bay Science, Education, and Ecosystem Enhancement Act of 2009	Warner / 3	6/10/09 introduced. 2/23/10 Reported in the nature of a substitute amendment 111-126. Placed on Senate Legislative Calendar. Cal. No. 272.	Amends the National Oceanic and Atmospheric Administration Authorization Act of 1992 to expand the duties of the Chesapeake Bay Office to include programs and activities in: (1) coastal hazards, resilient coastal communities, and climate change; (2) research, scientific assessment, and adaptation to climate change; and (3) integrated ecosystem assessments.	H.R. 1771 (Passed)	Coastal, Ecosystems
S. 1252	Oceans and Human Health Reauthorization Act 2009	Rockefeller / 2	6/11/09 introduced. Referred to the Committee on Commerce, Science and Transportation. 3/24/10 ordered to be reported with an amendment in the nature of a substitute.	Amends the Oceans and Human Health Act to expand the interagency oceans and human health research program to include coasts and the Great Lakes and to direct the President, through the National Science and Technology Council, to deliver information, products, and services to reduce public health risks, including those related to climate change, and enhance health benefits from the ocean.		Oceans, Coastal, Public Health, Research
S. 1434	Dept. of State, Foreign Operations, and Related Programs Appropriations Act of 2010	Leahy / 0	7/9/09 introduced. Reported 111-44. Placed on Senate Legislative Calendar No. 103.	Sec. 7082 under Climate Change and Environmental Programs authorizes "not less than" \$50 million in funds for the Least Developed Countries Fund and to the Special Climate Change Fund for climate change adaptation programs and activities.	H.R. 3081 (Passed)	International
S. 1436	Energy and Water Development and Related Agencies Appropriations Act	Dorgan / 0	7/9/09 introduced. Placed on Senate Legislative Calendar. No. 104. See H.R. 2183 which became Public Law 10/28/09.	Title I-Corp of Engineers-Civil - Makes appropriations for FY2010 to the Department of the Army, Corps of Engineers-Civil, for among other things, civil functions pertaining to rivers and harbors, flood and storm damage reduction, shore protection, and aquatic ecosystem restoration. (Sec. 116) Authorizes the Secretary to carry out structural and nonstructural projects for storm damage prevention and reduction, coastal erosion, and ice and glacial damage in Alaska, including the relocation of affected communities and construction of replacement facilities. Title II: Department of the Interior - Makes appropriations for FY2010 to the Department of the Interior for: (1) the Central Utah Project; and (2) the Bureau of Reclamation, including water and related natural resources, the Central Valley Project Restoration Fund, and the California Bay-Delta Restoration.	H.R. 3183 (Passed)	Infrastructure, Water, Flooding

# Congressional Bills Addressing Climate Change Adaptation<sup>1</sup>

## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
S. 1442	Public Lands Service Corp Act of 2009	Bingaman / 7	7/10/09 introduced. 10/29/09 <b>Hearings held</b> by Comm. on Energy and Natural Resources Subcomm. on Public Lands and Forests.	Amends the Public Lands Corps Act of 1993 to expand the authorization of the Secretaries of Agriculture, Commerce, and the Interior to provide service-learning opportunities on public lands. Defines authorized Service Corp projects to include: `(A) protection, restoration, or enhancement of ecosystem components to promote species recovery, improve biological diversity, enhance productivity and carbon sequestration, and enhance adaptability and resilience of public lands and resources in the face of climate change and other natural and human disturbances; `(B) promoting the health of forests and public lands, refuges, and coastal and marine areas, including-- (i) protection and restoration of watersheds and forest, riparian, estuarine, grassland, coral reef, intertidal, or other habitat; (ii) reduction of wildfire risk and mitigation of damage from insects, disease, and disasters; (iii) erosion control; (iv) control or removal of invasive, noxious, or non-native species; (v) restoration of native species; and (vi) projects under the Healthy Forests Restoration Act of 2003 (Public Law 108-148).	H.R. 1612 (Passed)	Coastal, Culture, Forests, Wildfire
S. 1562	Arctic Ocean Research and Science Policy Review Act of 2009	Begich / 0	8/3/09 introduced. Referred to the Committee on Commerce, Science and Transportation. 12/17/09 Ordered to be reported with a substitute amendment. 5/24/10 <b>Reported</b> (Rpt 111-193) and placed on Senate Legislative calendar. No. 401.	Directs the Secretary of Commerce to request the National Research Council to conduct a study on the existing research and research advisory entities of the United States Arctic Ocean. The study is to include: - a review of the breadth, relationship, and overlap of existing research programs and research advisory entities overlaps; - assess the gaps in these research and research programs ; - assess existing scientific information and identify additional information necessary; - recommend a comprehensive strategy to develop priorities for, and coordination, integration, and synthesis of, research and monitoring (U.S. and pan-Arctic) ; and - provide a comprehensive, 10- to 20-year long-range United States Arctic Ocean research and monitoring plan with applied emphasis on climate impacts, adaption, including response to coastal inundation issues, resource management, ecosystem function, marine transportation, pollution, ocean acidification, and coastal and offshore oil and gas development, including cold water oil spill response and marine mammal noise issues. Appropriates \$2 million to NOAA for 2010.		Oceans, Research
S. 1566	Arctic Climate Adaptation Act	Begich / 0	8/3/09 introduced. Referred to the Committee on Environment and Public Works.	Establishes in the Department of Commerce an American Arctic Adaptation Grant Program. Directs the Denali Commission to: (1) be the Alaska Project Coordinator for the Program; (2) select, administer, and coordinate projects awarded grants under the Program; (3) establish an Adaptation Advisory Committee to advise the Commission on climate adaptation needs and investments and on the award of grants under the Program; and (4) publish an annual work plan for the Program.  Permits the Commission to combine funds from the Program with awards from other appropriate federal or state infrastructure development, construction, or maintenance programs to provide funds to carry out an eligible project. Defines "eligible project" as a project to repair, replace, or maintain an element of public infrastructure in a coastal or remote Alaskan village damaged or threatened by the effects of climate change.  Requires the Commission, during FY2010 and in collaboration with the state of Alaska, the University of Alaska, and relevant U.S. agencies, to conduct research on best practices for climate related adaptation that are being used or researched by other polar nations or foreign or domestic research institutions or institutions of higher learning and that could be used by Arctic communities in Alaska.		State, Infrastructure, Coastal, Best Practices
S. 1593	Social Investment and Economic Development for the Americas Act of 2010	Menendez / 3	8/6/09 introduced. Referred to the Committee on Foreign Relations.	Authorizes appropriations to USAID to (among other items) support activities in the Region involving adaptation to, and reduction in the negative impact of, environmental changes brought about by global warming and activities promoting sustainable forest management and reduction of deforestation.  Expresses support for the establishment of an Energy and Climate Partnership of the Americas.	H.R. 4368 (no adaptation language)	International, Forestry

# Congressional Bills Addressing Climate Change Adaptation<sup>1</sup>

## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
S. 1667	Abrupt Climate Change Research Act of 2009	Collins / 4	9/14/09 introduced. Referred to the Committee on Commerce, Science and Transportation.	Directs the Secretary of Commerce to establish within the Office of Oceanic and Atmospheric Research of the National Oceanic and Atmospheric Administration (NOAA) and carry out a program of extramural awards to conduct scientific research on abrupt climate change (defined as change in climate that occurs so rapidly or unexpectedly that human or natural systems have difficulty adapting). Appropriates \$10 million per year 2010-2016.		Abrupt climate change, Research
S. 1712	Water Efficiency, Conservation, and Adaptation Act of 2009	Reid / 2	9/24/09 introduced. Referred to the Committee on Environment and Public Works.	Authorizes the EPA to make grants to owners or operators of water systems (defined in the bill) to address any ongoing or forecasted (based on the best available research and data) climate-related impact on the water quality or quantity of a region of the United States, for the purposes of mitigating or adapting to the impacts of climate change. Grants can be used to assist in the planning, design, construction, implementation, or maintenance of any program or project to increase the resilience of a water system to climate change. Grants are subject to a 50% cost sharing limitation.	H.R. 3747	Water
S. 1733	Clean Energy Jobs and American Power Act	Kerry / 3	9/30/09 introduced and referred to the Committee on Environment and Public Works. Hearings held. 11/3/09 Committee consideration and mark-up. 11/5 ordered to be reported as a substitute amendment. 2/2/10 Reported (111-121) and placed on Senate Legislative Calendar No. 267.	<p>Div. A. - Title I - 157. Requires a report assessing federal pre-disaster mitigation, emergency response, and flood insurance policies and programs that affect areas vulnerable to climate change.</p> <p>Div A. - Title II - Drinking Water Adaptation, Technology, Education and Research Sec. 211 Requires the EPA in cooperation with the DOC, DOE, and DOI to establish and fund a program of directed and applied research on the impact of climate change on U.S. water utilities.</p> <p>Div. A -Title III, Subtitle C - Adaptation Subpart-A National Climate Change Adaptation Program. 341. Establishes a National CC Adaptation Program in USGCRP. 342. Establishes a National Climate Service within NOAA for use by State, local and tribal government stakeholders and the public, to include: Climate information, data, forecasts, and warnings at national and regional scales.</p> <p>- Subpart B - Public Health - 353. Requires the Sect of HHS to issue a national strategic action plan to assist health professionals in preparing for and responding to the impacts of climate change on public health in the U.S. and other nations. Other provisions detail roles and responsibilities. Other sections address a Science Advisory Board and Reporting.</p> <p>- Subpart C- Natural Resources - 364. Assigns CEQ the oversight role of: • Advising the President on the Natural Resources Climate Change Adaptation Strategy and Federal agency natural resources adaptation plans, • Chairing the Natural Resources Climate Change Adaptation Panel; and • Coordinating Federal agency strategies, plans, programs, etc. as it pertains to natural resources adaptation.365. Establishes a Natural Resources Climate Change Adaptation Panel, chaired by CEQ, with members from: CEQ, FEMA, NOAA, Forest Service, National Park Service, U.S. F&amp;W, BLM, USGS, Bureau of Recl., Bureau of Indian Affairs, EPA, Army Corp of Engineers, Chair of CEQ, others as appropriate. 366. Requires the Panel to create a Natural Resources Climate Change Adaptation Strategy. 367. Directs NOAA and USGS to establish a coordinated adaptation science and information program. 368. Requires Federal department and agency adaptation plans. 369. In order to be eligible for state adaptation funds, states must create a State natural resource adaptation plan. Details requirements. 370. Details funding provisions.</p> <p>371. Requires the Sect of Interior in coordination with States and Indian tribes, to establish a National Fish and Wildlife Habitat and Corridors Information Program.</p> <p>Subpart D. Other Adaptation Programs. Establishes adaptation programs for Water Systems; Flood Control, Prevention, Protection and Response; Wildfires; and Coastal and Great Lake States.</p> <p>Div. B., Program Allocations. 211. State Programs for GHG Reduction and Adaptation - Allocates allowances among State governments based on population and per capita income relative to the U.S., for GHG reduction and adaptation projects. Requires States to create, and have approved, a State Adaptation Plan every 5 years in order to receive proceeds from SCCR Accounts for designated projects.</p>	H.R. 2454 (Passed), H.R. 2998	National Adaptation Program, Research, National Climate Service, State Adaptation Programs, Natural Resources, Public Health, Water, Wildfires, Coastal / Great Lakes, Flood, International

# Congressional Bills Addressing Climate Change Adaptation<sup>1</sup>

## 111th Congress

Bill	Name	Sponsor / # Co-Sponsors	Key Actions	Adaptation Provisions	Related Bills <sup>2</sup>	Keywords
S. 1933	Natural Resources Climate Adaptation Act	Bingaman / 6	10/27/09 introduced. Referred to the Committee on Environment and Public Works.	Sec 4. Requires the Secretary of Interior in coordination with NOAA, and in cooperation with other relevant federal agencies, to establish procedures for coordinating among Federal agencies the development and dissemination of science and information necessary to address the ongoing and expected impacts of climate change on natural resources. Requires issuing of a Climate Change Impact Survey to identify natural resources adversely affected by climate change and that identifies and prioritizes monitoring and research needs of federal natural resource managers. Requires the Secretary of Interior, in cooperation with the States, Indian tribes, and other Federal land managers, to establish a National Fish and Wildlife Habitat and Corridors Information Program. Directs the Secretaries, including the Sect of Agriculture to establish a Natural Resources Science Advisory Board. Requires the Sect. to establish the National Climate Change and Wildlife Center within the United States Geological Survey. Sec. 5 Establishes a multi-agency Natural Resources Climate Change Adaptation Panel chaired by CEQ. Sec. 6 Requires the panel to create a NRCCA Strategy. Sec 7. Requires federal agencies to create natural resources adaptation plans. Sec. 8 In order to receive eligible funds, requires States to prepare a State natural resources adaptation plan to address the ongoing and expected impacts of climate change on natural resources within the State. Sec 9 Establishes in the Treasury a separate account, to be known as the 'Natural Resources Climate Change Adaptation Fund'		Natural Resources, Wildlife, Planning
S. 2835	International Climate Change Investment Act of 2009	Kerry / 6	12/3/09 introduced. Referred to the Committee on Foreign Relations.	Title III - International Climate Change Adaptation and Global Security Program - Directs the Secretary of State, in consultation with the Administrator, the Secretary of the Treasury, the Administrator of the Environmental Protection Agency, and the Secretary of Agriculture, to establish an International Climate Change Adaptation and Global Security Program. The Program provides for Bilateral Assistance for vulnerable countries including adaptation planning, policy development and implementation support, research, technologies, and so on. Eligible activities and programs are defined in areas of water, agriculture, food security, disaster risk management, ecosystems, sustainable infrastructure and others as appropriate. provides for assistance to multilateral funds or international institutions as defined in the bill.		International
S. 3540	Clean Estuaries Act of 2010	Whitehouse / 1	6/28/10 introduced.	Amends the Federal Water Pollution Control Act (commonly known as the Clean Water Act) to reauthorize the National Estuary Program. Expands requirements governing a comprehensive conservation and management plan. The plan must now, among other things, address the impacts of climate change on the estuary. Additionally, the bill requires the heads of USACE, NOAA, Fish and Wildlife Service, USDA, USGS, DOT, HUD, and other appropriate federal agencies to: (1) cooperate and coordinate activities, including monitoring activities, related to the implementation of such plans; and (2) collaborate on the development of tools and methodologies for monitoring the ecological health and water quality conditions of estuaries covered by a management conference. Makes EPA the lead coordinating agency for implementing plans. The bill also revises the definition of "estuary" and "estuarine zones".	H.R. 4715 (Passed)	Water, Coastal

### References / Notes

- 1) All information contained herein is obtained from the most recently available information as of the date of this report available from the Library of Congress Thomas database, available at [www.thomas.gov](http://www.thomas.gov).
- 2) Related bills do not necessarily contain adaptation provisions