

Congressional Bills Addressing Climate Change Adaptation 110th Congress

Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
S 280 (See S 2191)	Climate Stewardship and Innovation Act of 2007	Lieberman / 11	7/24/07 - Senate committee/subcommittee actions. Status: Committee on Environment and Public Works Subcommittee on Private Sector and Consumer Solutions to Global Warming and Wildlife Protection. Hearings held.	See Title IV Adapting to Climate Change Impacts. Sec 401 - The Act requires the Secretary of Commerce to submit a climate change adaptation plan for the United States. This plan must include: a prioritized list of vulnerable systems and regions; coordination requirements between Fed, state and local governments as well as fed and industry coordination requirements. The Act requires the Office of Science and Technology Policy (OSTP) to: establish a program on adaptation technologies and assess the climate change technological needs of various regions of the country; and perform one national and six regional infrastructure cost assessments to provide estimates of the range of costs anticipated for adaptation to the impacts of climate change. Sec 402 requires the Secretary to conduct research on the impact of climate change on low-income populations everywhere in the world, including the U.S. and developing countries, and to identify appropriate adaptation measures.	HR 620, HR 4226 (See S 2191)	National Plan, Vulnerability Assessment, Coordination, Technology, Cost Assessments, Low income populations
S 309	Global Warming Pollution Reduction Act	Sanders / 19	1/16/07 intro. and referred to Comm. on Envir and Public Works	Section 8 Climate Change in Environmental Impact Statements - Directs federal agency environmental impact statements or analyses to evaluate the effects on, and impact of, global warming.	none	Environmental Impact Statements
S 317	Electric Utility Cap and Trade Act of 2007	Feinstein / 1	1/17/07 introduced and referred to Comm. on Envir and Public Works	Section 717 Climate Action Trust Fund - Requires the Administrator to use portions of the Climate Action Trust Fund for specified programs, including: (1) providing adaptation assistance for workers and communities to address and mitigate local or regional impacts of climate change; and (2) mitigating the impacts of climate change on fish and wildlife habitat, including funding for the federal aid to wildlife restoration fund under the Pittman-Robertson Wildlife Restoration Act. Amends the Global Change Research Act of 1990 to provide for initiatives concerning abrupt climate change research and increased sea level rise from polar ice sheet melt.	HR 620	Worker Assistance, Fish & Wildlife, Abrupt climate change
S 485	Global Warming Reduction Act of 2007	Kerry / 2	2/1/07 introduced and referred to Comm. on Finance	Title IV - Requires the Secretary of Commerce to establish a National Climate Change Vulnerability and Resilience Program and an Office of Climate Change Vulnerability and Resilience Research. Requires Vulnerability Assessments at local, state, and regional levels; Preparedness Research; Vulnerability Research including resilience and capacity measurements; and Dissemination of Information and Technologies to state and local levels to reduce loss of life. Title VII -Section 705 Research and Development - Establishes an abrupt climate change research program where 'abrupt climate change' means a change in climate that occurs so rapidly or unexpectedly that humans or natural systems may have difficulty adapting to the change.	none	Vulnerability Assessments, Emergency Preparedness, Information, Technologies, Abrupt Climate Change, Fed Org
S 1018	Global Climate Change Security Oversight	Durbin / 9	3/28/07 introduced and referred to Select Comm. On Intelligence	Section 3 - National Intelligence Estimate on Global Climate Change - Requires the Director of National Intelligence to submit to Congress a National Intelligence Estimate on the anticipated geopolitical effects of global climate change and the implications of such effects on U.S. national security. Requires the NIE (1) to assess the political, social, agricultural, and economic risks during the 30-year period beginning on the date of enactment of this Act posed by global climate change for countries or regions that are-- (A) of strategic economic or military importance to the United States and at risk of significant impact due to global climate change; or (B) at significant risk of large-scale humanitarian suffering with cross-border implications as predicted on the basis of the assessments; (2) to assess other risks posed by global climate change, including increased conflict over resources or between ethnic groups, within countries or transnationally, increased displacement or forced migrations of vulnerable populations due to inundation or other causes, increased food insecurity, and increased risks to human health from infectious disease. (3) to assess the capabilities of the countries or regions described to respond to adverse impacts caused by global climate change.	HR 1961	National Security (refugees, resource conflicts), International assessment
S1177	Clean Air Planning Act of 2007	Carper / 13	4/20/07 introduced. Referred to Committee on Envr and Public Works	Establishes a Climate Action trust Fund, funded from the auction of allowances, for which funds may be used in part for adaptation assistance for workers and communities, as well as wildlife and habitat adaptation		Worker Assistance, Fish & Wildlife, Adaptation Fund

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S 1538	Intelligence Authorization Act	Rockefeller	5/13/07 introduced.10/3/2007 Senate floor actions. Incorporated into HR 2082.	Incorporated in HR 2082 as an amendment.	HR 2082	National Security (refugees, resource conflicts), International assessment
S 1554	Energy Independence, Clean Air, and Climate Security Act of 2007	Collins / 1	6/6/07 introduced. Referred to Comm. On Finance	Title VI Climate Change Research - Section 602 - Abrupt Climate Change Research Act of 2007 - Establishes a program of scientific research on abrupt climate change within the Office of Oceanic and Atmospheric Research of the National Oceanic and Atmospheric Administration.	HR 1945, HR 2701	Abrupt Climate Change
S 1579	Coastal Zone Enhancement Reauthorization Act of 2007	Snowe / 2	6/7/07 introduced. Referred to Comm. On Commerce, Science, and Technology	Amends the Coastal Zone Management Act. Section 320 Effects of Climate Change on Coastal Zone Management - In preparing and carrying out its management program, a coastal state may-- (1) conduct assessments, mapping, modeling, and forecasting to understand the physical, environmental, and socio-economic impacts of sea level rise, changes in freshwater quality and quantity, ocean acidification, ocean warming, or other effects of global climate change on the coastal zone; (2) develop prevention, adaptation or response strategies to reduce vulnerability of coastal communities and resources to such impacts, changes, and effects; and '(3) establish mechanisms to increase local awareness of such impacts, changes, and effects.'	none	Coastal Zone Mgmt, Awareness
S 1580	Coral Reef Conservation Amendments Act of 2007	Inouye / 7	6/7/07 introduced. 3/13/08 Placed on Senate Legislative Calendar No. 620.	Amends the Coral Reef Conservation Act of 2000 to direct the Secretary of Commerce to submit to specified congressional committees a national coral reef ecosystem action strategy. Expands the scope to coral reef "ecosystems." Incorporates FEMA into assistance language as it pertains to state, local and territorial governments. Extends authorized activities to include "local, regional, or international programs and partners." Calls for an International Coral Reef Conservation Program to carry out activities consistent with this Act in waters outside U.S. jurisdiction, including submitting to specified congressional committees an international coral reef ecosystem strategy and establishing an international coral reef ecosystem partnership program to provide support, including funding and technical assistance, for activities that implement that strategy. Provides for legal liability by persons causing damage to coral reef ecosystems. Calls for data archiving, sharing standards and protocols from fed to state and local entities.	HR 1205, S 1583	Coral Reefs (Oceans)
S 1581	Federal Ocean Acidification Research And Monitoring Act of 2007 (FOARAM)	Lautenberg / 7	6/7/07 introduced. 12/4/2007 Comm. on Commerce, Science, and Trans. Ordered to be reported with amendments favorably. 5/22/08 Placed on Senate Legislative Calendar under General Orders. Calendar No. 749. Report 110-339.	A bill to establish an interagency committee to develop an ocean acidification research and monitoring plan and to establish an ocean acidification program within the National Oceanic and Atmospheric Administration. E15	HR 4174	Coastal / Oceans Mgmt (oceans acidification)
S 1583	Coral Reef Ecosystem Conservation Amendments Act of 2007	Inouye / 1	6/7/07 introduced. Referred to Comm. On Commerce, Science, and Technology	Amends the Coral Reef Conservation Act of 2000 to direct the Secretary of Commerce to make grants for projects for the conservation of coral reef ecosystems (ecosystems added).Authorizes the Secretary, in cooperation with the Federal Emergency Management Agency (FEMA), to provide assistance to any state, local, or territorial government agency for any unforeseen or disaster-related circumstance regarding coral reef ecosystems. (Current law does not mention FEMA) Authorizes the Secretary to conduct activities, including with local, regional, or international programs and partners, to conserve coral reef ecosystems. (Current law does not mention local, regional, or international programs and partners.)Amends the Fish and Wildlife Coordination Act to include coral reef ecosystems in the definition of "wildlife" and "wildlife resources." Requires construing the Acts commonly known as the Fish and Wildlife Act of 1956 and the Fish and Wildlife Improvement Act of 1978 to include coral reef ecosystems in those terms.	S 1580	Coral Reefs (Oceans)

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S 1696	Department of the Interior, Environment, and Related Agencies Appropriations Act, 2008.	Feinstein	6/26/2007 Placed on Senate Legislative Calendar under General Orders. Calendar No. 221. For further action see HR 2764 Consolidated Appropriations Act.	Among other provisions, this bill appropriates \$10 million to the EPA for the purpose of providing competitive grants for research into, among other purposes, developing strategies to mitigate climate change. In addition, the bill states the sense of the Senate Appropriations Committee that "a robust climate change management research program will be essential for the Forest Service to sustain forest health and biodiversity and protect a wide range of natural resources," and appropriates \$2.5 million to expand the Forest Service's climate science research program; the Committee directs the agency to use these funds to develop forest management techniques that adapt to and mitigate the effects of climate change.	HR 2643	National Agency Funding, Forest Mgmt
S 1766	Low Carbon Economy Act	Bingaman / 6	7/11/07 introduced and referred to Comm. on Envr and Public Works	Title IV - Sec 402 - Establishes the Climate Adaptation Fund for adaptation programs to address climate change impacts and for fish and wildlife conservation programs. 25% of funds for impacts in coastal regions; 25% of funds for impacts in Alaska; 20% to address impacts on natural resources in the contiguous U.S. (CCSP Research, and water supplies / technology priority); 30% fish and wildlife conservation. (Separate analysis of this bill provided in 2007.)	none	Fish & Wildlife, Adaptation Fund
S 2156	Secure Water Act	Bingaman / 5	10/4/07 introduced. 12/11/2007 Senate committee/subcommittee actions. Status: Committee on Energy and Natural Resources. Hearings held. 9/11/08 - Ordered to be reported with an amendment in the nature of a substitute favorably. 9/18/08 - Reported with substitute amendment. Placed on Senate Legislative Calendar. No 979.	Section 4 Climate Change Adaptation Program - Directs the Secretary of the Interior, acting through the Commissioner of Reclamation, to establish a climate change adaptation program to: (1) assess each effect of, and risk resulting from, global climate change regarding the quantity of water resources located in specified areas (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. The legislation would also create an intergovernmental panel to work in cooperation with states, water research organizations and individual drinking water utilities to study and increase understanding of the wide-ranging impacts of climate change on the nation's water supplies. Other sections of the bill would mandate a national water availability and a use assessment program to provide an accurate reckoning of the nation's long-term water availability and make improvements to the National Streamflow Information Program. The bill would make federal grant funds available to states and water utilities within Reclamation's jurisdictional area for use in projects to conserve water, accelerate the adoption of advanced treatment technologies that will increase available water sources, or address other climate change-related impacts on water supplies. A total of \$200 million would be authorized for the grant program, with the maximum grant award for any one project limited to \$5 million.	none	Water Resources, Resource Conflict
S 2191 (See S. 3036)	Americas Climate Security Act of 2007	Lieberman / 11	10/18/07 introduced. 12/5/2007 Senate committee/subcommittee actions. Status: Committee on Environment and Public Works. Ordered to be reported with an amendment in the nature of a substitute favorably. 5/20/2008 Placed on Senate Legislative Calendar under General Orders. Calendar No. 740	Subtitle G - Adaptation Program for Natural Resources in the U.S and Territories - Establishes in the Treasury and provides for allocations from an Adaptation Fund to carry out activities (including research and education activities) that assist fish and wildlife, fish and wildlife habitat, plants, and associated ecological processes in adapting to and surviving the impacts of climate change. Title VII Reviews - Section 7003 Adaptation Review - E7 Title VI Sec 6006 - Directs the Administrator to establish an international reserve allowance program. Requires the proceeds from sales of such allowances to be used to mitigate the negative impacts of climate change on other countries' disadvantaged communities.	S 3036	Fish & Wildlife, Education, Cost Assessments, National Plan, Vulnerability assessment, Coordination, Low-income populations, international support
S 2204	Global Warming Wildlife Survival Act	Whitehouse / 4	10/18/07 introduced. Referred to Comm. on Envr and Public Works.	Title I - Natural Resources and Wildlife - Requires the Secretary of Commerce to establishing a national strategy to protect, maintain, and restore coastal and marine ecosystems so that the ecosystems are more resilient and better able to withstand the additional stresses associated with global warming, including relative sea level rise, and with ocean acidification. Title II -Oceans Program - Amends the Coastal Zone Management Act of 1972 to require the Secretary of Commerce to: (1) establish a coastal climate change resiliency planning and response program; and (2) issue guidelines for the implementation of climate change resiliency planning grants to states. Title III - Imperiled species - examine and report on the ecological impact of global warming on each imperiled species in each ecosystem of the United States.	HR 2338, S 2211	Coastal Management (marine ecosystems), Oceans, Imperiled Species

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S 2211	Global Warming and Acidification Coastal and Ocean Resiliency Act	Whitehouse / 1	10/19/07 introduced and referred to Comm. on Commerce, Science, and Transportation	Requires the Secretary of Commerce to establish a national strategy to protect, maintain, and restore coastal and marine ecosystems so that they are more resilient and better able to withstand the additional stresses associated with global warming, including relative sea level rise, and ocean acidification... Amends the Coastal Zone Management Act of 1972 to: (1) require the Secretary to establish a coastal climate change resiliency planning and response program and (2) to issue guidelines for the implementation of climate change resiliency planning grants (authorized by this Act) to states. (same as 2204)	S 2204	Coastal management / Oceans
S 2284	Flood Insurance Reform and Modernization Act of 2007	Dodd /	11/1/07 introduced. Referred to Comm. On Banking, Housing and Urban Affairs.5/13/08 Senate Floor Action - returned to Calendar.	Amends the National Flood Insurance Act of 1968 (Act) to extend the national flood insurance program (Program) though FY2013. (Sec. 7) Instructs FEMA to issue final regulations establishing revised definitions of special flood hazard areas, including residual risk areas. Subjects such areas to mandatory flood insurance purchase requirements. (Sec. 8) Requires adjustment of flood insurance risk premium rates to reflect the current risk of flood to property located in an area participating in the Program. (Sec 12) Increases from \$1.5 billion to \$20.775 billion, during FY2008 only, the maximum amount of loans and obligations the FEMA Director may issue to the Secretary of the Treasury with the President's approval for the Program.(Sec. 18) Establishes the Technical Mapping Advisory Council to recommend mapping standards and guidelines for flood insurance rate maps.	HR 3121 (See Below)	Flood Insurance
S 2307	Global Change Research Improvement Act of 2007	Kerry / 3	11/5/07 introduced. 12/4/2007 Senate committee/subcommittee actions. Status: Committee on Commerce, Science, and Transportation. Ordered to be reported with amendments favorably. 5/22/08 Reported with amendments. Report 110-341. Placed on Senate Legislative Calendar under General Orders. Calendar No. 752. 6/3/08 - Star Print ordered.	Title I - Amendment to GCR Act of 1980 - Modifies the 1990 Global Change Research Act, calling for a 10-yr strategic plan for research, assessment, information management, public participation, and outreach... 8) include a process for identifying information needed by ..Federal, State, regional, and local decisionmakers to develop policies to plan for and address projected impacts..; (10) identify existing capabilities and gaps in national, regional, and local climate prediction and scenario-based modeling capabilities for forecasting and projecting climate impacts at local and regional levels, and propose measures to address such gaps; (11) describe specific activities designed to facilitate outreach and data and information exchange with regional, State, and local governments and other user communities; (12) Address emerging priorities for climate change science, such as ice sheet melt and movement, the relationship between climate change and hurricane and typhoon development, including intensity, track, and frequency, decreasing water levels in the Great Lakes, and droughts in the western and southeastern United States. (15) establish a common assessment and modeling framework..to project, predict, and assess the vulnerability of natural and managed ecosystems and of human society in the context of other environmental and social changes. Title V - Abrupt Climate Change Research Program - Appropriations (Title V): not to exceed \$10m/yr 2009-2013.	none	Vulnerability Assessments (Natl, S&L) , Modeling, Coordination, Technologies, Abrupt Climate Change, Education / Outreach

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S 2355	Climate Change Adaptation Act	Cantwell / 3	11/14/07 introduced. 12/4/2007 Senate committee/subcommittee actions. Status: Committee on Commerce, Science, and Transportation. Ordered to be reported with amendments favorably. 6/5/2008 - Placed on Senate Legislative Calendar under General Orders. Calendar No. 769. Rport 110-347.	Amends the National Climate Service Act to enhance the ability of the U.S. to implement climate change adaptation programs and policies. Sec 9 - Nat'l Strategic Plan for CC Adapation calls for a 5-year Strategic Plan to address the impacts of climate change within the U.S.:(3) include guidance for integrating the consideration of the impacts of climate change on Federally-managed resources, and in Federal actions and policies, consistent with existing authorities; (4) address vulnerabilities and priorities identified through the assessments carried out under the Global Change Research Act of 1990 and this Act; (5) establish a mechanism for the exchange of information related to addressing the impacts of climate change with, and provide technical assistance to, State and local governments and nongovernmental entities...etc Sec 10 - Ocean and Coastal Vulnerability and Adaptation - Requires the Sect of Commerce to conduct regional assessments of the vulnerability of coastal and ocean areas and resources to hazards associated with climate change, climate variability, and ocean acidification. Requires a national coastal and ocean adaptation plan within 3 years, composed of individual regional adaptation plans that recommend targets and strategies to address coastal and ocean impacts associated with climate change, ocean acidification, sea level rise; taking into account results of regional assessments under Global Change Research Program; and recommending adaptation strategies for [list provided].. Appropriations: Natl Strat (Sec 9) - \$25m/yr 09-13; Coastal/Ocean Assessments (Sec 10) \$75m/yr 09-13; Adaptation Plans - \$150m/yr 09-13 w/ 75% for states.	none	National Plan, Federal Resources, Coordination, Vulnerability Assessments, Coastal mgmt,
S 2593	Forest Landscape Restoration Act of 2008	Bingaman/ 14	2/5/08 introduced. Referred to Committee on Energy and Natural Resources. 6/16/08 Placed on Legislative Calendar No. 802.	Directs the Secretary of Agriculture, through the Chief of the Forest Service, to establish a Collaborative Forest Landscape Restoration Program to select and fund "ecological restoration treatments" for priority forest landscapes. Requires the Secretary to establish a scientific advisory panel to evaluate, and provide recommendations on, any proposal. Requires the panel to include experts in ecological restoration, fire ecology, fire management, rural economic development, strategies for ecological adaptation to climate change, fish and wildlife ecology, and woody biomass and small-diameter tree utilization. Establishes the Collaborative Forest Landscape Fund, to be used for paying up to 50% of the cost of carrying out and monitoring ecological restoration treatments on National Forest System land for each proposal selected. Limits funding up to \$4 million per proposal in a given 10 yr period. Appropriations: \$40 million/yr for yrs 2009-2019.	HR 5263	Forest Management
S 2728	Twenty-First Century Water Commission	Isakson / 1	3/6/08 introduced. 8/22/08 Placed on Senate Legislative Calendar No. 941.	Establishes the Twenty-First Century Water Commission to: (1) project future water supply and demand; (2) study current water management programs of federal, interstate, state, and local agencies and private sector entities directed at increasing water supplies and improving the availability, reliability, and quality of freshwater resources; and (3) consult with representatives of such agencies and entities to develop recommendations for a comprehensive water strategy.	HR 135	Water Resources (Drought, Water Supply)
S 2970	Climate Change Drinking Water Adaptation Act	Reid / 2	5/2/2008 introduced. Referred to Comm. On Envr and Public Works. 9/24/08 - Reported w/out amendment. Rpt No. 110-487. Placed on Senate Legislative Calendar. No. 1058.	Purposes: 1) A bill to develop and promote a comprehensive plan for a national strategy to address harmful algal blooms and hypoxia through baseline research, forecasting and monitoring, and mitigation and control while helping communities detect, control, and mitigate coastal and Great Lakes harmful algal blooms and hypoxia events. 2) to provide for the assessment and consideration of regional and national ecosystem, socio-economic, and human health impacts of harmful and nuisance algal blooms and hypoxia, and integration of that assessment into marine and freshwater resource decisions; and (3) to facilitate regional, State, and local efforts to develop and implement appropriate harmful algal bloom and hypoxia event response plans, strategies, and tools including outreach programs and information dissemination mechanisms. Calls for the establishment of Regions (partnership with fed and states) and the creation of Regional Research and Action Plans. Appropriates funds to NOAA : \$30m/yr for 2009 and 2010; \$70m / yr for 2011, 2012 and 2013; and \$40m for the Action Plans.	HR 6297	Water Resources

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S 3036	Lieberman-Warner Climate Security Act of 2008	Boxer	5/20/2008 introduced. 7/8/2008 Senate floor actions. Returned to the Calendar No. 742.	See Pew Summary.	S 2191	Funding to states and tribes (water coastal, agriculture, infrastructure); Natl Wildlife Adaptation Plan, Fish & Wildlife, Land Mgmt / Forestry, Int'l Support / Natl Security
S 3191	Harmful Algal Blooms and Hypoxia Amendments Act of 2008	Snowe / 10	6/25/08 introduced. Referred to Committee on Commerce, Science and Transportation.	Purposes: 1) A bill to develop and promote a comprehensive plan for a national strategy to address harmful algal blooms and hypoxia through baseline research, forecasting and monitoring, and mitigation and control while helping communities detect, control, and mitigate coastal and Great Lakes harmful algal blooms and hypoxia events. 2) to provide for the assessment and consideration of regional and national ecosystem, socio-economic, and human health impacts of harmful and nuisance algal blooms and hypoxia, and integration of that assessment into marine and freshwater resource decisions; and (3) to facilitate regional, State, and local efforts to develop and implement appropriate harmful algal bloom and hypoxia event response plans, strategies, and tools including outreach programs and information dissemination mechanisms. Calls for the establishment of Regions (partnership with fed and states) and the creation of Regional Research and Action Plans. Appropriates funds to NOAA : \$30m/yr for 2009 and 2010; \$70m / yr for 2011, 2012 and 2013; and \$40m for the Action Plans.	none	Oceans
S 3297	Advancing America's Priorities Act	Reid / 7 (incl Biden, Boxer, Feinstein, Kennedy, Lieberman, Leahy)	7/22/08 introduced. 7/23/08 placed on Calendar 894. 7/28/08 Motion to proceed to consideration of measure withdrawn in Senate. 9/26/08 - Motion to proceed to measure considered in Senate by unanimous consent.	This appropriations bill contains 37 Acts. Title V - Commerce, Science and Transportation, Subtitle B - Oceans - contains 2 Acts with adaptation provisions and 2 others that may benefit adaptation planning: Federal Oceans Acidification Research and Monitoring Act of 2008 (FOARAM Act) - "research adaptation strategies and techniques for effectively conserving marine ecosystems as they cope with increased ocean acidification." Ocean and Coastal Mapping Integration Act - could benefit adaptation planning by fed and states for coastal management, Integrated Coastal and Oceans Observation Systems Act - "improve the Nation's capability to measure, track, explain, and predict events related directly and indirectly to weather and climate change, natural climate variability, and interactions between the oceanic and atmospheric environments, including the Great Lakes." Hydrographic Services Improvement Act - could benefit adaptation planning for sea level rise or other impact assessments.		Oceans, Coastal Management
S 3314	National Oceans Protection Act 2008	Boxer / 3	7/23/08 introduced. Referred to Committee on Commerce, Science and Transportation.	Title I - Natl Ocean Policy and Leadership - Establishes NOAA as the lead federal agency for oceans and atmospheric matters. Create a unified national policy as it pertains to oceans and atmosphere, including oceans and coastal resources, including an analysis of all federal agencies to be consistent with a new National Oceans Policy. The Act also enhances regional coordination capability, inter and intra fed agency coordination, and increased partnerships between federal and state / local governments for coordination and implementation purposes. Establishes the Council of Ocean Stewardship to ensure coordination occurs and Oceans Policy is enforced. Title II - Regional Coordination and Planning - establishes 9 oceanic regions. Calls for the establishment of federal-state Regional Ocean Partnerships. Calls for each regional partnership to a) conduct regional oceans assessments and b) create a Regional Ocean Strategic Plan within 2 years of completed assessments. Title III - Ocean Science, Education and Operations. Appropriations: \$40M/yr to states to create Strategic Plans for 2011, 2012, 2013 and increasing to \$60m/yr for 2014 thru 2021 to implement and maintain plans; \$20m to NOAA for 2011-2019 for Assessments; \$30m for 2014, \$40m for 2015 and \$50m/yr for 2016-2021 to develop and implement the Strategic Plans.	none	Oceans, Coastal Management, NOAA

* Note: Related Bills do not necessarily contain adaptation provisions

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S 3373	Northwest Straits Marine Conservation Initiative ReAuthorization and Expansion Act of 2008	Murray / 1 (Cantwell)	7/31/08 introduced. Referred to committee on Commerce, Science and Transportation.	To reauthorize and expand the Northwest Straits Marine Conservation Initiative Act to promote the protection of the resources of the Northwest Straits, and for other purposes. Appropriations: \$2.25m/yr 2009-2011; \$2.5m/yr 2012-2013	HR 6746	Coastal Mgmt (sea level rise, salination)
S 3515	Oceans and Coastal Regional Adaptation Centers of Excellence	Whitehouse/0	9/18/08 introduced. Referred to Comm. 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 for research, planning, and related efforts to assess and prepare for the impacts of climate change on ocean and coastal areas, including the Great Lakes. Identifies 4 regions: Northeast, Southeast, Western Pacific, and Great Lakes. Funding to centers comes from grants from NOAA and EPA.		Oceans, Coastal Mgmt
S 3638	National Windstorm Impact Reduction Reauthorization Act	Nelson/0	9/26/08 introduced. Referred to Comm. on Commerce, Science and Transportation.	Reauthorizes and amends the Act of the same name from 2004, to research linkages between climate change and severe windstorms, and to incorporate climate-related impacts into windstorm risk and vulnerability assessments and mitigation activities; and to redesignate 'coordination among Federal agencies and with State and local governments'. It designates the Natl Institute of Standards and Technology as the lead federal agency of the Program, with new roles including: research and development to improve building codes, standards, and practices for design and construction of buildings, structures, and lifelines; 2) working with FEMA to adopt research into national standards; 3) coordinate research and data results with other agencies, state and local govts, and academia;. Establishes an Interagency Working Group on Wind Impact Reduction with specific duties outlined. Program Agencies are amended to include: NSF, NOAA, FEMA, DOT, NASA, Corp of Engineers., with specific duties outlined. Appropriations: \$30 million per year for yr 2009-2013 - amounts per agency established in the bill.	HR 7159	Wind (Severe Storms)
S 3642	Senator Paul Simon Water for the Poor Enhancement Act	Durbin / 3	9/27/08 - introduced and referred to House Committee on Foreign Relations+D64	To enhance the capacity of the United States Government to fully implement the Senator Paul Simon Water for the Poor Act of 2005 and to improve access to safe drinking water and sanitation throughout the world. Establishes the Office of Water in the U.S. Agency for International Development. Establishes a Bureau of Intl Water. Calls for an assessment on the progress of the goals established in the 2005 act.	HR 7180	Water Resources
SJ RES 17	Global fishery management	Stevens/10	8/3/07 introduced. 6/3/09 became Public Law. No 110-240.	Declares that: (1) the United States should initiate discussions to negotiate international agreements for managing migratory, transboundary, and straddling fish stocks in the Arctic Ocean and establishing new international fisheries management organizations for the region; (2) such agreements should conform with the United Nations Fish Stocks Agreement and contain mechanisms for establishing elements necessary for sustaining future Arctic fish stocks; (3) as international fisheries agreements are negotiated and implemented, the United States should consult with the North Pacific Regional Fishery Management Council and Alaska Native subsistence communities of the Arctic; and (4) until the agreements come into force, the United States should support international efforts to halt the expansion of commercial fishing activities in the high seas of the Arctic Ocean.		Fishery management

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SJ RES 45	Great Lakes-St. Lawrence River Basin Water Resources Compact	Levin/15	7/23/08 introduced. Referred to Committee on the Judiciary. 8/1/08 - Passed in the Senate. 9/23 - Passed in the House. 10/3/08 Became Public Law No. 110-342.	Provides the consent and approval of Congress to the Great Lakes-St. Lawrence River Basin Water Resources Compact entered into between the States of Illinois, Indiana, Michigan, Minnesota, New York, Ohio, and Wisconsin, and the Commonwealth of Pennsylvania. Purposes: To act together to protect, conserve, restore, improve and effectively manage the Waters and Water Dependent Natural Resources of the Basin under appropriate arrangements for intergovernmental cooperation and consultation.. To provide for cooperative planning and action with respect to such Water resources; To facilitate consistent approaches to Water management across the Basin while retaining State management authority over Water management decisions within the Basin; To facilitate the exchange of data, strengthen the scientific information base upon which decisions are made and engage in consultation on the potential effects of proposed Withdrawals and losses on the Waters and Water Dependent Natural Resources of the Basin; to prevent significant adverse impacts of Withdrawals and losses on the Basin's ecosystems and watersheds; To promote interstate and State-Provincial comity; and, to promote an Adaptive Management approach to the conservation and management of Basin Water resources, which recognizes, considers and provides adjustments for the uncertainties in, and evolution of, scientific knowledge concerning the Basin's Waters and Water Dependent Natural Resources.	HR 6577	Water Resources
S Res 509	Public Health and Climate Change Adaptation	Sanders / 10 (incl Kerry, and Snowe)	4/9/2008 introduced	Recognizes: (1) Apr 7-13 2008 as "National Public Health Week"; (2) the efforts of public health professionals, first responders, States, municipalities, and local communities to incorporate measures to adapt health care systems to address impacts of climate change; (3) the role of adaptation in preventing impacts of climate change on vulnerable communities, the potential for improvement of health status and health equity through efforts to address climate change, and the need to include health policy in the development of climate response. Encourages: 1) further research, interdisciplinary partnership, and collaboration between stakeholders to understand and monitor the health impacts of climate change, for preparedness activities and for improvement of health care infrastructure; and (2) every American to learn about the impact of climate change on health.	H Res 1081	Public Health
S RES 598	Global conservation of natural resources	Biden/14	6/24/08 introduced. 9/23/08 - Placed on Senate Legislative Calendar. No. 1049.	Expresses the sense of the Senate that the United States should: (1) identify global conservation goals that help ensure the sustainable use of natural resources and protect biological diversity in terrestrial and marine environments of developing countries; and (2) work with donor nations and international organizations in support of such goals.	none	Natural Resource Mgmt
H CON RES 248	U.S. Fish and Wildlife Service incorporate global warming and sea level rise...	Christensen / 0	11/6/07 introduced. Referred to sub-comm on Fisheries, Wildlife and Oceans.	Expressing the sense of the Congress that the United States Fish and Wildlife Service should incorporate consideration of global warming and sea-level rise into the comprehensive conservation plans for coastal national wildlife refuges, and for other purposes.	none	Coastal, Fish & Wildlife
H CON RES 300	Improving Health and Resiliency of Coral Reef Ecosystems	Bordallo/15	2/15/08 introduced. 5/21/08 Passed in the House. 5/22/08 referred to Senate Comm. on Commerce, Science and Transportation	Recognizes the necessity for the United States to maintain its significant leadership role in improving the health and promoting the resiliency of coral reef ecosystems by strengthening awareness about ecological, economic, social, and cultural values of coral reefs and associated ecosystems, improving understanding of coral reef threats and generating practical and innovative solutions, and initiating development and implementation of effective management strategies for the conservation and sustainable use of those ecosystems.	none	Oceans (Coral Reef)

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Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 6	Energy Independence and Security Act of 2007 (pka: Renewable Fuels, Consumer Protection, and Energy Efficiency Act of 2007)	Rahall / 198	1/12/07 introduced. 12/19/07 became Public Law No: 110-140	Omnibus Senate energy bill for 2007. Title XI: Energy Transportation and Infrastructure - Subtitle A: Department of Transportation - (Sec. 1101) Amends federal transportation law to establish the Office of Climate Change and Environment (Office) within the Department of Transportation (DOT) to mitigate effects of climate change and build a clearinhouse of solutions. Previous language requiring the Secretary of Commerce to establish within NOAA a program of scientific research on abrupt climate change, and authorizes up to \$10 million between 2009 and 2014 was removed.	H.RES.66, H.RES.846, H.RES.877, H.R.453, H.R.1721, H.R.1933, H.R.2635, H.R.2701, H.R.3221, H.R.4773, S.103, S.193, S.357, S.962, S.987, S.992, S.1321, S.1419, S.1656, S.1657, S.1771	Abrupt Climate Change (removed). Transportation mitigation and clearinghouse.
HR 135	Twenty-First Century Water Commission	Linder / 29	1/4/07 introduced. 6/4/08 Placed on the Union Calendar 429.	Establishes the Twenty-First Century Water Commission to: (1) use studies and assessments to project future water supply needs and demand, develop national and regional assessments on flood risk and water availability and trends related to water quality; (2) study government and private sector water management programs directed at increasing water supplies, managing flood risk, and improving the availability, reliability, and quality of water resources; and (3) develop recommendations for a comprehensive water strategy.	S 2728	Water Resource (Drought, Water Supply)
HR 620	Climate Stewardship Act of 2007	Oliver / 136	1/22/07 introduced. 2/7/07 referred to subcommittee on Fisheries, Wildlife, and Oceans.	Title II - Adaptation Assistance for Fish and Wildlife Habitat - Requires the CCCC (established by the Act) to establish a program to provide financial support for the restoration of habitat to help fish and wildlife adapt to climate change. Title III - Amends the Coastal Zone Management Act of 1972 to require the Secretary of Commerce to: (1) report on the possible and projected impacts of climate change on (a) oceanic and coastal ecosystems, including marine fish and wildlife and their habitat, and the commercial and recreational fisheries and tourism industries associated with them; and (b) coastal communities, including private residential and commercial development and public infrastructure in the coastal zone; and (2) assist certain coastal states in preparing persons to adapt to climate change. Sec 302 - Adaptation Technologies - Requires the Director of the Office of Science and Technology Policy to: (1) establish a program on adaptation technologies as part of the Climate Technology Challenge Program; and (2) perform six regional infrastructure cost assessments and a national cost assessment of the impacts of climate change. Requires the Secretary of Commerce to: (1) submit a climate change adaptation plan to Congress..This plan must include: a prioritized list of vulnerable systems and regions; coordination requirements between Fed, state and local governments as well as fed and industry coordination requirements. Sec 303 - Mitigating Climate Change Impacts on the Poor - requires research on the impact of climate change on low-income populations worldwide. Sec 304 - Wildlife Conservation - Amends the Pittman-Robertson Wildlife Restoration Act to provide funding for the Wildlife Conservation and Restoration Account that may be used by states to develop and implement climate change impact mitigation plans.	HR 4226, S 280, S 317	Fish & Wildlife, Coastal management, Technologies, Cost Assessments, National Plan (vulnerable systems), Coordination, Low-Income populations (global)

* Note: Related Bills do not necessarily contain adaptation provisions

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Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 906	Global Change Research and Data Management Act of 2007	Udall / 12	2/7/07 introduced. 4/24/08 placed on Union Calendar No 376.	Sec 103 - Directs the President to establish or designate an interagency committee to ensure cooperation and coordination of federal research activities pertaining to processes of global change. Sec 104 Directs the President to establish the interagency USGCR Program to improve understanding of global change, to respond to the information needs of communities and decision makers, and to provide periodic assessments of the vulnerability of the United States and other regions to global and regional climate change. Requires the Office of Science and Technology Policy to be the lead agency for the Program. Authorizes such activities to include: (1) developing scenarios for climate, land-cover change, population growth, and socioeconomic development; (2) calibrating and testing alternative regional and global climate models; (3) identifying economic sectors and regional climatic zones; and (4) convening regional workshops to facilitate information exchange and involvement of stakeholder groups in the activities of the Program. Requires the President to enter into an agreement with: (1) the National Academy of Sciences (NAS) to evaluate the scientific content of the Plan and recommend priorities for future global and regional climate change research and assessment; and (2) the National Governors Association Center for Best Practices to evaluate the utility to state, local, and regional decision makers of each Plan and of the information outputs of the Program for development of policies to reduce vulnerability to global change and recommend priorities for future global and regional climate change research and assessment.	HR 3221	Research, Coordination, Vulnerability Assessments
HR 1205	Coral Reef Conservation Amendments Act of 2007	Faleomavaega / 7	2/27/07 introduced. 10/22/07 Passed in the House. 10/23/07 Referred to Senate Committee.	Amends the Coral Reef Conservation Act of 2000 to direct the Secretary of Commerce to submit to specified congressional committees a national coral reef ecosystem action strategy. Expands the scope to coral reef "ecosystems." Incorporates FEMA into assistance language as it pertains to state, local and territorial governments. Extends authorized activities to include "local, regional, or international programs and partners." Calls for an International Coral Reef Conservation Program to carry out activities consistent with this Act in waters outside U.S. jurisdiction, including submitting to specified congressional committees an international coral reef ecosystem strategy and establishing an international coral reef ecosystem partnership program to provide support, including funding and technical assistance, for activities that implement that strategy. Provides for legal liability by persons causing damage to coral reef ecosystems. Calls for data archiving, sharing standards and protocols from fed to state and local entities.	S 1580	Coral Reefs (Oceans)
HR 1507	Salmon Economic Analysis and Planning Act	McDermott/69	3/13/07 introduced. 3/16/07 referred to Subcomm. On Fisheries, Wildlife and Oceans.	Secure the preservation and recovery of the salmon and steelhead of the Columbia River Basin		Fish & Wildlife
HR 1961	Global Climate Change Security Oversight	Markey / 13	4/19/07 introduced. 6/20/07 referred to subcommittee on Readiness.	Section 3 - National Intelligence Estimate on Global Climate Change - Requires the Director of National Intelligence to submit to Congress a National Intelligence Estimate on the anticipated geopolitical effects of global climate change and the implications of such effects on U.S. national security. Requires the NIE (1) to assess the political, social, agricultural, and economic risks during the 30-year period beginning on the date of enactment of this Act posed by global climate change for countries or regions that are-- (A) of strategic economic or military importance to the United States and at risk of significant impact due to global climate change; or (B) at significant risk of large-scale humanitarian suffering with cross-border implications as predicted on the basis of the assessments; (2) to assess other risks posed by global climate change, including increased conflict over resources or between ethnic groups, within countries or transnationally, increased displacement or forced migrations of vulnerable populations due to inundation or other causes, increased food insecurity, and increased risks to human health from infectious disease. (3)to assess the capabilities of the countries or regions described to respond to adverse impacts caused by global climate change.	S 1018	National Security (refugees, resource conflicts), International assessment

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Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 1975	Northern Rockies Ecosystem Protection Act.	Maloney / 139	4/20/07 introduced. 10/18/07 House committee/subcommittee actions. Status: Subcommittee Hearings Held.	Among other purposes, this bill designates certain National Forest System, National Park System, and Bureau of Land Management-administered public lands as components of a National Wilderness Preservation System, a National Wild and Scenic River System, and National Wildland Restoration and Recovery Areas. In the title establishing the National Wildland Restoration and Recovery System, the bill finds that "Recovery activities are required to reverse severe damage to native fish and wildlife populations and water quality in these areas and to facilitate the dispersal of species in response to climate change," and mandates that "All lands within the Recovery System shall be managed so as to restore their native vegetative cover and reduce or eliminate invasive non-native species, facilitate native species diversity to the extent possible with climate change..."		Forest / Land Management, Fish & Wildlife
HR 2082	Intelligence Authorization Act of 2008	Silvestre	Vetoed by President. 3/11/2008 Failed of passage in House over veto.	Intelligence Authorization Act for Fiscal Year 2008. Section 407 of this bill would require the Director of National Intelligence to prepare a National Intelligence Estimate on the anticipated geopolitical effects of global climate change and the implications of such effects on the national security of the United States.	H RES 388, H RES 859, S 1538	National Security (refugees, resource conflicts), International assessment
HR 2327	Polar Bear Protection Act	Insllee/97	5/18/2007 Referred to House subcommittee. Status: Referred to the Subcommittee on Trade.	To amend the Marine Mammal Protection Act of 1972 to strengthen polar bear conservation efforts, and for other purposes	S 1406	Wildlife
HR 2337	Energy Policy Reform and Revitalization Act of 2007 (Short Title)	Rahall / 7	5/16/07 introduced. 8/3/2007 Placed on the Union Calendar, Calendar No. 186.	Subtitle D: Natural Resources and Wildlife Programs – Chapter 1: Natural Resources Management and Climate Change - (Sec. 441) Directs the Secretary of the Interior to: (1) establish an Interagency Council on Climate Change to address the impacts of climate change on federal lands, the ocean environment, and the federal water infrastructure; (2) develop an interagency inventory and Geographic Information System database of U.S. ecosystems, water supplies, and water infrastructure vulnerable to climate change; (3) manage land, water, and ocean resources in a manner that takes into account projected climate change impacts, including prolonged periods of drought, changing hydrology, and increasing ocean acidification; (4) develop consistent protocols to incorporate climate change impacts in land and water management decisions; and (5) incorporate the most current, peer-reviewed science on climate change and the economic, social, and ecological impacts of climate change into the decisionmaking process. Many Sections addressing wildlife (452, 454, 455), oceans (471), coastal zones and land use (472). This bill text was generally incorporated in H.R. 3221, Division A, the New Direction for Energy Independence, National Security, and Consumer Protection Act.	HR 3221, HR 5452	Fed Org, Fed Role (Water and land Mgmt), Fish & Wildlife, Coastal management
HR 2338	Global Warming Wildlife Survival Act (short title)	Dicks / 2	5/16/07 introduced. 6/26/07 referred to subcommittee on Department Operations, Oversight, Nutrition and Forestry.	Title I - National Policy and Strategy - Requires the Sect of Interior to promulgate a national strategy for mitigating the impacts of global warming on wildlife populations in the United States, to include:(A) identify and monitor wildlife populations likely to be adversely affected by global warming; (B) identify and monitor coastal, marine, terrestrial, and freshwater resources and habitat at greatest risk of being damaged by global warming; (C) assist species in adapting to the impacts of global warming; (D) protect, acquire, and restore wildlife habitat to build resilience to global warming; (E) provide habitat linkages and corridors to facilitate wildlife movements in response to global warming; (F) restore and protect ecological processes that sustain wildlife populations vulnerable to global warming; and (G) incorporate consideration of climate change in, and integrate climate change adaptation strategies for wildlife into, the planning and management of Federal lands administered by the Department of the Interior and lands administered by the Forest Service	S 2204	Fish & Wildlife,

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Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 2342	National Integrated Coastal and Ocean Observation Act of 2008	Allen / 22	5/16/07 introduced. 3/31/08 Passed in the House. 4/1/08 Referred to Senate Committee on Commerce, Science and Transportation.	Directs the President to establish a National Integrated Coastal and Ocean Observation System to: (1) support national defense, marine commerce, energy production, basic and applied research, ecosystem-based marine and coastal resource management, public safety and public outreach training and education; (2) promote awareness of ocean, coastal, and Great Lakes resources; (3) improve the ability to measure, track, explain, and predict weather and climate change and natural climate variability; (4) fulfill the plan contained in the document entitled "Ocean.US Publication No. 9, The First Integrated Ocean Observing System (IOOS) Development Plan"; and (5) fulfill the nation's international obligations to contribute to the global earth and ocean observation systems. Makes the Administrator of the National Oceanic and Atmospheric Administration (NOAA) the lead federal agency for the System. Requires the Administrator to certify or establish Regional Information Coordination Entities to coordinate state, federal, local, and private interests at a regional level. Requires the Council to develop a policy that defines processes for making decisions about the roles of the federal government, states, Regional Information Coordination Entities, the academic community, and the private sector in providing to end-user communities environmental information, products, technologies, and services related to the System.		Oceans and Coastal
HR 2400	Ocean and Coastal Mapping Integration Act	Bordallo / 5	5/21/07 introduced. 7/23/07 Passed the House. 7/24/07 referred to Senate Comm. on Commerce, Science and Transportation.	Section 2 - Directs the Administrator of the National Oceanic and Atmospheric Administration (NOAA) to establish an integrated ocean and coastal mapping program for the Great Lakes and coastal state waters, the territorial sea, the exclusive economic zone, and the U.S. continental shelf that enhances ecosystem approaches in decision-making for conservation and management of marine resources and habitats, establishes research priorities, supports the siting of research and other platforms, advances safety of navigation, and advances ocean and coastal science.	S 39	Oceans, Coastal Management
HR 2420	International Climate Cooperation Re-Engagement Act of 2007	Lantos / 25	5/22/07 introduced.6/28/2007 Placed on the Union Calendar, Calendar No. 131.	Section 102 Congressional Statement of Policy. Established within the Department of State an Office on Global Climate Change to advance the goals of the United States with respect to reducing the emissions of global greenhouse gases and addressing the challenges posed by global climate change. This bill text was generally incorporated in H.R. 3221, Division A, the New Direction for Energy Independence, National Security, and Consumer Protection Act.	HR 3221	International Federal Role
HR 2537	Beach Protection Act	Pallone / 39	10/31/07 introduced. Reported by Comm. on Transportation and Infrastructure. 4/16/08 Passed in the House. Recd in Senate and referred to Comm. on Envr and Public Works.	Among other provisions to amend the Federal Water Pollution Control Act, this bill would direct the Administrator of the EPA to conduct a study on the long-term impact of climate change on pollution of coastal recreation waters.	H RES 1083, S. 1506, S 2844	Coastal Mgmt
HR 2643 (See HR 2764)	Dept of the Interior, Environment and Related Agencies Appropriations Act of 2008	Dicks	6/11/07 Introduced. Passed in the House. 6/28/2007 Received in the Senate. Read twice. Placed on Senate Legislative Calendar under General Orders. Calendar No. 240.	Appropriations Bill. Passed House. On calendar in Senate. Title II Environmental Protection Agency - Appropriates \$50M for FY2008 to the Environmental Protection Agency (EPA) for expenses for supporting activities of the Commission on Climate Change Adaptation and Mitigation established by this Act (including transfers of funds). For further action, see H.R. 2764, Consolidated Appropriations Act, 2008	HR 514, HR 2764, S 1696	Fed Adaptation Org and Funding

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Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 2701	Transportation Energy Security and Climate Change Mitigation Act of 2007	Oberstar / 15	6/13/07 introduced. 6/20/2007 House committee/subcommittee actions. Status: Ordered to be Reported (Amended) by Voice Vote.	Title VII Water Resources and Emergency Management Preparedness - Section 702 21st Century Water Commission (water supply, quality, and hazards such as sea level rise, flooding, droughts, etc) This bill text was generally incorporated in H.R. 3221, Division A, the New Direction for Energy Independence, National Security, and Consumer Protection Act.	S 1554, HR 6, HR 3221	Water Resources, Emergency Preparedness
HR 2764	Consolidated Appropriations Act of 2008(formerly The Department of State, Foreign Operations and Related Programs Appropriations Act, 2008)	Lowey	Bill passed.	RFS version - Environment Programs; EAS/PP version - Environment and Energy Conservation Programs. ENR version - adaptation language removed,although funding for water conservation and other water programs, flooding, erosion, coastal states, etc. are still in this bill.	H RES: 498, 850, 873, 876, 878, 893; H .R. 2643, H.R. 2829, HR 3284, HR 3690, S 1922	no adaptation funding
HR 3121	Flood Insurance Reform and Modernization Act	Waters / 13	7/19/07 introduced. 9/27/07 passed in the House. 5/13/08 passed in the Senate in lieu of S 2284 with an amendment. 7/10/08 resolving differences: secs 7 and 35 of House bill and sec 128 of Senate amendment.	Extends the National Flood Insurance Program from 2008 to 2013. Expands coverage to new areas "residual risk areas." Increases premium rates up to adjust for the actual (current) risk of the area. Creates a National Insurance Flood Reserve Fund (1% of potential loss exposure). Establishes Technical Mapping Advisory Council and calls for improved inter-agency and inter-govt coordination on flood mapping and flood risk determination, ensure flood rate maps account for climate science, including sea level rise and future risks. Establishes a Natl Flood Mapping Program to review, update and maintain all maps. Contains Education and Outreach provision to property owners in at risk areas. Coordination provisions between fed, state and local, including data sharing and funding. (FEMA, USGS, NOAA, etc). Establishes a Comm. on Natural Catastrophe Risk Mgmt and Insurance to examine the risks posed to the United States by natural catastrophes, and means for mitigating those risks and for paying for losses caused by natural catastrophes. Appropriations: such sums as necessary.	H RES 683, H.R. 920, HR 1682, S 2284	Flood Insurance
HR 3220	New Direction for Energy Independence, National Security, and Consumer Protection Act	Pelosi / 91	7/30/2007 introduced. Referred to the Committee on Energy and Commerce, and in addition to the Committees on Education and Labor, Foreign Affairs, Small Business, Science and Technology, Agriculture, Oversight and Government Reform, Natural Resources, Transportation and Infrastructure, Armed Services, and Ways and Means. 9/19/07 referred to Committee on Workforce Protections and Higher Education, Lifelong Learning, and Competitiveness.	This Act incorporates various legislative initiatives for energy conservation, independence, and security. Some adaptation provisions include: Subtitle G Global Change Research - Sec 4613 Interagency coord, Sec 4617 Vulnerability Assessment, Sec 4618 Policy Assessment, 4622 Global Change Research Information; Global Warming Wildlife Survival Act - Requires the Secretary of Energy to promulgate a national strategy for assisting wildlife populations and their habitats in adapting to the impacts of global warming. Directs the Secretary of Commerce to promulgate a national strategy to support state and federal agency efforts to mitigate the impacts on ocean and coastal ecosystems from global warming. Transportation Energy Security and Climate Change Mitigation Act of 2007 - Establishes in the Department of Transportation (DOT) a Center for Climate Change and Environment to plan, coordinate, and implement efforts to reduce transportation-related energy use and mitigate the effects of climate change. Establishes the 21st Century Water Commission to address future water supply and demand and the impacts of climate change on water availability and quality. Directs the Administrator of the Federal Emergency Management Agency (FEMA) to study the effects of climate change on FEMA preparedness, response, recovery, and mitigation programs.	HR 3221	Coordination, national vulnerability assessment, Fish & Wildlife, Transportation, Water Resources, Emergency Management

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Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 3221	American Housing Rescue and Foreclosure Prevention Act (HR 3221 was previously the New Direction for Energy Independence, National Security, and Consumer Protection Act (as introduced in House) Omnibus energy legislation was enacted in H.R.6, which became Public Law 110-140 on 12/19/2007	Pelosi / 18	7/30/07 introduced. 8/4/2007--Passed House amended. 9/5/2007 Read the second time. Placed on Senate Legislative Calendar under General Orders. Calendar No. 340.	Various adaptation provisions include: Subchapter B: National Policy and Strategy for Wildlife - Global Warming Wildlife Survival Act - (Sec. 7452) Declares U.S. policy on wildlife and global warming. (Sec. 7454) Directs the Secretary of the Interior to: (1) promulgate a national strategy to assist wildlife populations in adapting to the impacts of global warming. Chapter 5: Ocean Programs - (Sec. 7471) Directs the Secretary of Commerce to develop and implement a national strategy to support coastal state and federal efforts to: (1) predict, plan, and mitigate the impacts upon ocean and coastal ecosystems from global warming, relative sea level rise, and ocean acidification; and (2) ensure the recovery and health of ocean and coastal ecosystems. Authorizes appropriations. (Sec. 7472) Amends the Coastal Zone Management Act of 1972 to establish a coastal climate change resiliency planning and response program to: (1) assist coastal states to develop coastal climate change resiliency plans; and (2) provide financial and technical assistance, including grants to states, for implementation of such plans.	H.RES.615, H RES 1175, H.R.6, H.R.364, H.R.2304, H.R.2313, H.R.2337, H.R.2389, H.R.2420, H.R.2635, H.R.2701, H.R.2773, H.R.2774, H.R.2776, H.R.2847, H.R.3220, S 2636	Fish & Wildlife, Coastal management, Transportation, Water Resources, Emergency Management
				Title VIII: Transportation and Infrastructure Transportation Energy Security and Climate Change Mitigation Act of 2007 - (Sec. 8002) ...mitigate the effects of climate change ...and to ensure sound water resource and natural disaster preparedness planning.Subtitle G: Water Resources and Emergency Management Preparedness - Part 1: Water Resources - (Sec. 8701) Declares as U.S. Policy that all federal water resources projects: (1) reflect national priorities for flood damage reduction, navigation, ecosystem restoration, and hazard mitigation and consider the future impacts of increased hurricanes, droughts, and other climate change-related weather events; (2) avoid the unwise use of flood plains, minimize vulnerabilities in any case in which a flood plain must be used, protect and restore the extent and functions of natural systems, and mitigate any unavoidable damage to aquatic natural system; and (3) avoid impacts to wetlands, help filter water, serve as recharge areas for aquifers, reduce floods and erosion, and provide plant and animal habitat.		
				(Sec. 8702)Establishes the 21st Century Water Commission to: (1) project future water supply and demand and impacts of climate change to our nation's flood risk, water availability, and water quality; (2) study current water management programs directed at increasing water supplies and improving the availability, reliability, and quality of freshwater resources and evaluate such programs' hazard mitigation strategies and contingency planning in light of climate change impacts; and (3) develop recommendations for a comprehensive water strategy.		
				Part 2: Emergency Management - (Sec. 8731) Requires the Administrator of the Federal Emergency Management Agency (FEMA) to study and report.. on the increase in demand for FEMA's emergency preparedness, response, recovery, and mitigation programs and services that may be reasonably anticipated as a result of an increased number and intensity of natural disasters affected by climate change. ALL OF HR 3221 REPLACED w/ HOUSING. NONE WAS INCORPORATED IN HR 6.		
HR 3957	Water Use Efficiency and Conservation Research Act	Matheson / 2	10/24/07 introduced. 7/30/08 Reported by Committee on Science and Technology. Passed in the House. 7/31/08 Received in the Senate and referred to Committee on Environment and Public Works.	Requires the Environmental Protection Agency's (EPA) Assistant Administrator for Research and Development to establish a research and development program to promote water use efficiency and conservation, including: (1) technologies and processes that enable the collection, treatment, and reuse of rainwater and greywater; (2) water storage and distribution systems; and (3) behavioral, social, and economic barriers to achieving greater water use efficiency. Requires the Administrator to: (1) facilitate the adoption of technology and processes to increase water use, water efficiency, and conservation; and (2) collect and disseminate information on technologies and processes to increase water use and conservation. Appropriations: \$20m/yr for 2009-2013.		Water Resources

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Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 4174	FOARAM Act (Ocean Acidification)	Allen / 17	11/14/07 introduced. Referred to House Comm on Science and Tech. 1/28/08 referred to subcommittee on Energy and Environment. 7/9/08 Passed in the House. 7/10/08 Received in the Senate. Read twice. On Leg Calendar 873.	Establishes an Interagency Committee on Ocean Acidification, to develop an ocean acidification research and monitoring plan and to establish an ocean acidification program within the National Oceanic and Atmospheric Administration. The Committee is comprised of members from NOAA, NASA, NSF, USGS, EPA, DOE, etc. Appropriations: NOAA: \$8,000,000 for fiscal year 2009; \$12,000,000 for fiscal year 2010; \$15,000,000 for fiscal year 2011; and \$20,000,000 for fiscal year 2012. NSF: \$6,000,000 for fiscal year 2009; \$8,000,000 for fiscal year 2010; \$12,000,000 for fiscal year 2011; and \$15,000,000 for fiscal year 2012.	S 1581	Coastal management (Oceans Acidification)
HR 4226	Climate Stewardship and Economic Security Act of 2007	Gilchrest / 5	11/15/07 introduced. Referred to Comm.s on: Energy and Commerce, Science and Technology, Natural Resources, Foreign Affairs, and Agriculture. 4/25/08 - Referred to sub-committees.	Title II - Climate Change Credit Corp - Requires the CCCC (established by the Act) to establish a program to provide financial support for the restoration of habitat to help fish and wildlife adapt to climate change. Title III - Amends the Coastal Zone Management Act of 1972 to require the Secretary of Commerce to: (1) report on the possible and projected impacts of climate change on (a) oceanic and coastal ecosystems, including marine fish and wildlife and their habitat, and the commercial and recreational fisheries and tourism industries associated with them; and (b) coastal communities, including private residential and commercial development and public infrastructure in the coastal zone; and (2) assist certain coastal states in preparing persons to adapt to climate change. Sec 302 - Adaptation Technologies - Requires the Director of the Office of Science and Technology Policy to: (1) establish a program on adaptation technologies as part of the Climate Technology Challenge Program; and (2) perform six regional infrastructure cost assessments and a national cost assessment of the impacts of climate change. Requires the Secretary of Commerce to: (1) submit a climate change adaptation plan to Congress. This plan must include: a prioritized list of vulnerable systems and regions; coordination requirements between Fed, state and local governments as well as fed and industry coordination requirements. Sec 303 - Mitigating Climate Change Impacts on the Poor - requires research on the impact of climate change on low-income populations worldwide. Sec 304 - Wildlife Conservation - Amends the Pittman-Robertson Wildlife Restoration Act to provide funding for the Wildlife Conservation and Restoration Account that may be used by states to .	HR 620, S280	Fish and Wildlife, Aquatic ecosystems, Coastal Management, Technology, Infrastructure, Adaptation Plan, Low-income populations, State Plans.
HR 4986	National Defense Authorization Act for FY 2008	Skelton / 1	Signed into law 1/28/08.	Directs the Secretary of Defense that the first national security strategy and national defense strategy prepared after enactment shall include guidance for military planners to: assess the risks of projected climate change to current and future missions of the armed forces; update defense plans based on these assessments, including working with allies and partners to incorporate climate mitigation strategies, capacity building, and relevant research and development; and to develop the capabilities needed to reduce future impacts. The bill requires that the next quadrennial defense review prepared after the date of the enactment of this subsection examine the capabilities of the armed forces to respond to the consequences of climate change, in particular, preparedness for natural disasters from extreme weather events and other missions the armed forces may be asked to support inside the United States and overseas.		National Security

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Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 5263	Forest Landscape Restoration Act of 2008	Bingaman/ 14	2/5/08 introduced. Referred to Committee on Energy and Natural Resources. 6/16/08 Placed on Legislative Calendar No. 802.	Directs the Secretary of Agriculture, through the Chief of the Forest Service, to establish a Collaborative Forest Landscape Restoration Program to select and fund "ecological restoration treatments" for priority forest landscapes. Requires the Secretary to establish a scientific advisory panel to evaluate, and provide recommendations on, any proposal. Requires the panel to include experts in ecological restoration, fire ecology, fire management, rural economic development, strategies for ecological adaptation to climate change, fish and wildlife ecology, and woody biomass and small-diameter tree utilization. Establishes the Collaborative Forest Landscape Fund, to be used for paying up to 50% of the cost of carrying out and monitoring ecological restoration treatments on National Forest System land for each proposal selected. Limits funding up to \$4 million per proposal in a given 10 yr period. Appropriations: \$40 million/yr for yrs 2009-2019.	S 2593	Forest Management
HR 5402	Climate Change Center and Clearinghouse Act of 2008	Welch /11	2/12/08 introduced. Referred to Committee on Small Business.	This bill would amend the Small Business Act to establish an Office of Environment, Energy, and Climate Change within the Small Business Administration, and would establish within said office a Climate Change Center and Clearinghouse. The Center and Clearinghouse would be charged with providing scientific, economic, and technical information to small business concerns on assessing and managing the technical, economic, and business impacts of climate change. Although this bill is mitigation focused, this duty could be interpreted for adaptation as well. Appropriations: such sums as necessary.	none	Small Business
HR 5453	Coastal State Climate Change Planning Act of 2008	Capps/ 10	2/14/08 introduced. 2/28/08 Sub-committee hearing held.	This bill would amend the Coastal Zone Management Act of 1972 to require the Secretary of Commerce to establish a coastal climate change adaptation planning and response program. The program would provide grants to states to assist them in voluntarily developing and implementing coastal climate change adaptation plans. Appropriations: such sums as necessary.		Coastal Management
HR 5770	To provide for a study by the National Academy of Sciences of potential impacts of climate change on water resources and water quality	Hall / 9	4/10/08 introduced. 6/4/08 reported by the Committee on Transportation.	Directs the Administrator of the Environmental Protection Agency (EPA) to arrange for the National Academy of Sciences to prepare a two-part study of potential impacts of climate change on water resources and water quality, addressing issues of: (1) hydrology and water quality (including the potential for impacts to wetlands, shoreline erosion, and saltwater intrusion as a result of sea level rise, as well as significant regional variation in precipitation events from historic patterns); and (2) policy considerations (including an identification of the scientific consensus, assumptions, and uncertainties related to predictions of climate change in the United States and of steps to assess emerging information and identify appropriate response actions, and an assessment of the extent to which federal and state efforts under the Federal Water Pollution Control Act and other ocean and coastal laws may be affected by climate change. Appropriations - \$1.5m .	none	Water Resources
HR 5976	U.S. Commission on Rebuilding America for the 21st Century Act	Blumenauer / 24	5/6/08 introduced. 5/7/08 referred to subcommittee on Railroads, Pipelines, and Hazardous Materials.	Establishes the United States Commission on Rebuilding America for the 21st Century to review published materials on the nation's transportation, water, energy, public lands, and housing infrastructure and assess the challenges of meeting the nation's infrastructure needs in the 21st century. Directs the Commission to submit to Congress a report that: (1) documents those challenges and articulates a national vision of infrastructure investments to overcome them; (2) contains specific recommendations on policies and investments to provide for streamlined state and local transportation investment processes, an electric grid that delivers clean, safe, and affordable energy, reductions in greenhouse gas emissions, and improved transportation mobility, community health outcomes, water conservation, and public lands infrastructure accommodating user growth without degrading the environment; and (3) contains a set of model principles to ensure that future investments in the nation's infrastructure incorporate the report's findings and recommendations. Appropriations: \$2.5m	none	Infrastructure (water, transportation, land, housing, energy)
HR 6057	Polar Bear Seas Protection Act	Inslee / 25 (2 new)	5/14/08 introduced and referred to Comm on Natural Resources.	To amend the Outer Continental Shelf Lands Act to prohibit preleasing, leasing, and related activities in the Beaufort and Chukchi Sea Planning Areas unless certain conditions are met.	S 2568	Polar Bear, Wildlife, marine ecosystem

* Note: Related Bills do not necessarily contain adaptation provisions

Congressional Bills Addressing Climate Change Adaptation 110th Congress

Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 6186	Investing in Climate Action and Protection Act	Markey /	6/4/08 introduced. 6/12/08 Referred to the Subcommittee on Energy and Environment.	Title III, Subtitle F - National Climate Change Adaptation Fund. The purpose of this subtitle is to establish an integrated Federal program to enhance the capacity of Federal, State, local, and tribal governments to reduce vulnerability to the adverse impacts of climate change on the United States and its territories. Establishes a National Climate Change Adaptation Council and Program of same name. The Council is made up of numerous federal agencies, including DOC, DOE, DOI, DOT, EPA, HHS, CDC, and so on. The Program is administered by NOAA, and is responsible for National Assessments, scientific information and tools for fed, state, tribal and local use. Establishes a National Climate Change Adaptation Fund under section 722 of the Clean Air Act. Funding: 2% of auction allowance revenues 2010-2019, 2.5% 2020-2050; Int'l adaptation program the same 2% and 2.5%.		Fed Adaptation Org and Fund
HR 6297	Climate Change Drinking Water Adaptation Act	DeGette / 5	6/18/2008 introduced. 7/14/2008 referred to subcommittee on Energy and Environment.	A bill to enhance the ability of drinking water utilities in the United States to develop and implement climate change adaptation programs and policies, and for other purposes. Impact research: water quality, water quality, groundwater supplies, infrastructure, desalination, regional cooperation, decision support systems and models, water conservation and demand management, etc. Appropriation: \$25 million per year for 10 years (09-19).	S 2970	Water Resources
HR 6316	Climate MATTERS Act of 2008	Doggett / 92	6/18/08 introduced. 7/14/08 referred to subcommittee on Energy and Environment.	Title III, Sub-Title B - Part 2 - Investment in Natural Resources Adaptation. Assists fish and wildlife , habitats, plants and associated ecological processes to survive climate change and ocean acidification. Uses the Invest in Natural Resource Adaptation Account and the Land and Water Conservation Fund. Allocates funding largely to the Dept of Interior, as well as Sect of Agriculture, EPA (%), forest Service (5%), Corps of Engineers (10%), Dept of Commerce (10%). Includes 10% cost sharing provision to states and tribes. Requires a National Strategy. States must create a State Strategy to receive funds. (Similar to S 3036)		Adaptation Fund, Fish and Wildlife, National and State Strategy
HR 6537	Sanctuaries Enhancement Act	Bordallo /12	7/17/08 introduced. Hearings held - subcomm Fisheries, Wildlife, and Oceans.	Amends the National Marine Sanctuaries Act to provide for broader assignment of designated areas in the system. Requires the Secretary to strive to include in the System, by 2030, sites that will incorporate a full range of the nation's marine ecoregions and rare and unique marine habitats, and a full range of maritime heritage resource areas. Expands the purpose and policies of the Act to include among other things: (2) to manage the System with the primary purpose being the long-term protection and conservation of the living and nonliving resources of the System; (3) to include within the System areas that collectively represent the full range of the Nation's marine ecoregions, ecological communities and unique habitats, and diverse maritime heritage resources; (4) to provide authority for comprehensive and coordinated protection, conservation, and adaptive management of the System, and the activities therein affecting the System, in a manner that supports ecosystem-based management and recognizes existing regulatory authorities and uncertainties in our scientific understanding of the marine environment;(5) to maintain the natural biological communities in the national marine sanctuaries, and to protect, and, where appropriate, restore and recover natural habitats, populations, and ecological processes; `...		Marine Sanctuaries (Fish and Wildlife)

Congressional Bills Addressing Climate Change Adaptation 110th Congress

Bill	Name	Sponsor / Number of Co- Sponsors	Last Action	Adaptation Provisions	Related Bills*	Keywords
HR 6577	Great Lakes-St. Lawrence River Basin Water Resources Compact	Oberstar / 47	7/23/08 introduced. Referred to Committee on the Judiciary. Ordered for voice vote. Became Public Law - See S.J. RES 45.	Provides the consent and approval of Congress to the Great Lakes-St. Lawrence River Basin Water Resources Compact entered into between the States of Illinois, Indiana, Michigan, Minnesota, New York, Ohio, and Wisconsin, and the Commonwealth of Pennsylvania. Purposes: To act together to protect, conserve, restore, improve and effectively manage the Waters and Water Dependent Natural Resources of the Basin under appropriate arrangements for intergovernmental cooperation and consultation.. To provide for cooperative planning and action with respect to such Water resources; To facilitate consistent approaches to Water management across the Basin while retaining State management authority over Water management decisions within the Basin; To facilitate the exchange of data, strengthen the scientific information base upon which decisions are made and engage in consultation on the potential effects of proposed Withdrawals and losses on the Waters and Water Dependent Natural Resources of the Basin; to prevent significant adverse impacts of Withdrawals and losses on the Basin's ecosystems and watersheds; To promote interstate and State-Provincial comity; and, to promote an Adaptive Management approach to the conservation and management of Basin Water resources, which recognizes, considers and provides adjustments for the uncertainties in, and evolution of, scientific knowledge concerning the Basin's Waters and Water Dependent Natural Resources.	S.J. RES 45	Water Resources
HR 6746	Northwest Straits Marine Conservation Initiative ReAuthorization and Expansion Act of 2008	Larsen / 2	7/31/08 introduced. Referred to committee on Natural Resources. 8/7/08 referred to subcommittee.	To reauthorize and expand the Northwest Straits Marine Conservation Initiative Act to promote the protection of the resources of the Northwest Straits, and for other purposes. Appropriations: to Under Sect of Oceans and Atmosphere, \$2.25m/ 2009-2011, \$2.5m/yr 2012 and 2013.	S 3373	Coastal Mgmt (sea level rise, salination)
HR 7151	America's Wildlife Heritage Act	Kind	9/26/08 introduced. 10/2/08 referred to sub-committee on Natl Parks, Forests and Public Lands.	Calls for the management of viable population species on public lands and the coordination of habitat management between DOI and DOA. Provides protection measures for species found to be at risk of viability, in terms of activities in those areas. Requires a comprehensive wildlife monitoring program for species on public lands.		Fish and Wildlife
HR 7159	National Windstorm Impact Reduction Reauthorization Act	Moore / 3	9/26/08 introduced. Referred to sub-comm on Technology and Innovation.	Reauthorizes and amends the Act of the same name from 2004, to research linkages between climate change and severe windstorms, and to incorporate climate-related impacts into windstorm risk and vulnerability assessments and mitigation activities; and to redesignate 'coordination among Federal agencies and with State and local governments'. It designates the Natl Institute of Standards and Technology as the lead federal agency of the Program, with new roles including: research and development to improve building codes, standards, and practices for design and construction of buildings, structures, and lifelines; 2) working with FEMA to adopt research into national standards; 3) coordinate research and data results with other agencies, state and local govts, and academia;. Establishes an Interagency Working Group on Wind Impact Reduction with specific duties outlined. Program Agencies are amended to include: NSF, NOAA, FEMA, DOT, NASA, Corp of Engineers., with specific duties outlined. Appropriations: \$30 million per year for yr 2009-2013 - amounts per agency established in the bill.	HR 3638	Windstorms (Hurricanes)
HR 7180	Senator Paul Simon Water for the Poor Protection Act	Blumenauer / 7	9/27/08 - introduced and referred to House Committee on Foreign Affairs	To enhance the capacity of the United States Government to fully implement the Senator Paul Simon Water for the Poor Act of 2005 and to improve access to safe drinking water and sanitation throughout the world. Establishes the Office of Water in the U.S. Agency for International Development. Establishes a Bureau of Intl Water. Calls for an assessment on the progress of the goals established in the 2005 act.	S 3642	Water Resources (Quality and Quantity)