TABLE 1. FY 2006-2008 CLIMATE CHANGE SCIENCE PROGRAM **BUDGET BY GOAL AND FOCUS AREA**

Focus Budgets (\$M) ² FY 2007 FY					2008	
Area	Description (from <i>CCSP Strategic Plan</i>) ¹	FY 2006	Estimate	Request	Agencies	
	nprove knowledge of the Earth's past and present clim ariability, and improve understanding of the causes of				natural	
Focus 1.1	Better understand natural long-term cycles in climate [e.g., Pacific Decadal Variability (PDV), North Atlantic Oscillation (NAO)]	37.8	39.7	45.3	DOC, DOE, DOI, NASA, NSF	
Focus 1.2	Improve and harness the capability to forecast El Niño-La Niña and other seasonal-to-interannual cycles of variability	38.5	37.9	38.1	DOC, DOE, DOI, NASA, NSF	
Focus 1.3	Sharpen understanding of climate extremes through improved observations, analysis, and modeling, and determine whether any changes in their frequency or intensity lie outside the range of natural variability	38.9	36.9	37.4	DOC, DOE, DOI, NASA, NSF	
Focus 1.4	Increase confidence in the understanding of how and why climate has changed	39.9	40.8	41.4	DOE, DOI, NASA, NSF, SI	
Focus 1.5	Expand observations and data/information system capabilities	170.0	170.6	158.1	DOC, DOE, DOI, NASA, NSF, SI	
GOAL 1 T	OTAL	325.1	325.9	320.3		
Goal 2 In	nprove quantification of the forces bringing about cha	nges in the I	Earth's clim	nate and rela	nted systems	
Focus 2.1	Reduce uncertainties about the sources and sinks of greenhouse gases, emissions of aerosols and their precursors, and their climate effects	100.3	96.3	101.8	DOC, DOE, DOT, NASA, NSF	
Focus 2.2	Monitor the recovery of the ozone layer and improve the understanding of the interactions of climate change, ozone depletion, tropospheric pollution, and other atmospheric issues	32.0	29.7	28.4	USDA, DOE, NASA	
Focus 2.3	Increase knowledge of the interactions among emissions, long-range atmospheric transport, and transformations of atmospheric pollutants, and their response to air quality management strategies	40.1	40.4	40.4	NASA, NSF	

¹ See Chapter 2 of the *Strategic Plan for the U.S. Climate Change Science Program* for a detailed discussion. ² Any minor discrepancies within this table and between this table and others are due to rounding.

Appendix B

TABLE 1 (CONTINUED)

Facus		Budgets (\$M) ²					
Focus Area	Description (from <i>CCSP Strategic Plan</i>) ¹	FY 2006	FY 2007 Estimate	FY 2008 Request	Agencies		
Goal 2 (co	Goal 2 (continued)						
Focus 2.4	Develop information on the carbon cycle, land cover and use, and biological/ecological processes by helping to quantify net emissions of carbon dioxide, methane, and other greenhouse gases, thereby improving the evaluation of carbon sequestration strategies and alternative response options	130.2	127.0	128.4	USDA, DOC, DOE, DOI, NASA, NSF, SI		
Focus 2.5	Improve capabilities to develop and apply emissions and related scenarios for conducting "If, then" analyses in cooperation with CCTP	3.0	3.0	3.0	DOE		
GOAL 2 T	OTAL	305.6	296.4	302.0			
Goal 3 Reduce uncertainty in projections of how the Earth's climate and related systems may change in the future							
Focus 3.1	Improve characterization of the circulation of the atmosphere and oceans and their interactions through fluxes of energy and materials	43.1	42.2	42.4	DOC, DOE, NASA, NSF		
Focus 3.2	Improve understanding of key "feedbacks" including changes in the amount and distribution of water vapor, extent of ice and the Earth's reflectivity, cloud properties, and biological and ecological systems	80.1	75.4	75.6	DOE, DOI, NASA, NSF		
Focus 3.3	Increase understanding of the conditions that could give rise to events such as rapid changes in ocean circulation due to changes in temperature and salinity gradients	6.4	6.2	6.1	NASA, NSF		
Focus 3.4	Accelerate incorporation of improved knowledge of processes and feedbacks into climate models to reduce uncertainty in projections of climate sensitivity, changes in climate, and related conditions such as sea level	85.3	86.1	93.7	DOC, DOE, NASA, NSF		
Focus 3.5	Improve national capacity to develop and apply climate models	38.9	35.5	44.8	DOC, DOE, NASA, NSF		
GOAL 3 TOTAL			245.4	262.6			

OUR CHANGING PLANET

TABLE 1 (CONTINUED)

Focus Area	Description (from <i>CCSP Strategic Plan</i>) ¹	B FY 2006	udgets (\$M FY 2007 Estimate	FY 2008 Request	Agencies
	nderstand the sensitivity and adaptability of different i ystems to climate and related global changes	natural and	managed e	cosystems a	and human
Focus 4.1	Improve knowledge of the sensitivity of ecosystems and economic sectors to global climate variability and change	65.1	62.3	63.8	USDA, DOE, DOI, EPA, NASA, NSF, SI
Focus 4.2	Identify and provide scientific inputs for evaluating adaptation options, in cooperation with mission-oriented agencies and other resource managers	56.4	56.3	55.5	HHS, EPA, NSF
Focus 4.3	Improve understanding of how changes in ecosystems (including managed ecosystems such as croplands) and human infrastructure interact over long time periods	48.3	42.5	37.5	USDA, DOC, DOE, NASA, NSF, SI
GOAL 4 T	OTAL	169.8	161.1	156.8	
	xplore the uses and identify the limits of evolving knovelated to climate variability and change	vledge to ma	anage risks	and opport	unities
Focus 5.1	Support informed public discussion of issues of particular importance to U.S. decisions by conducting research and providing scientific synthesis and assessment reports	70.6	60.0	61.6	USDA, DOE, DOI, DOT, EPA, NASA, NSF, SI
Focus 5.2	Support adaptive management and planning for resources and physical infrastructure sensitive to climate variability and change; build new partnerships with public and private sector entities that can benefit both research and decisionmaking	63.5	66.9	66.1	USDA, DOC, DOI, USAID, EPA, NASA, NSF
Focus 5.3	Support policymaking by conducting comparative analyses and evaluations of the socioeconomic and environmental consequences of response options	9.7	8.3	8.4	USDA, DOI, NASA, NSF, SI
GOAL 5 TOTAL		143.8	135.2	136.1	
CCSP PROGRAM TOTAL		1,198.0	1,164.0	1,177.8	