Table 1. Revised Schedule and Scope of CCSP Synthesis and Assessment Products

July 15, 2005

	Description	Agency Lead	Scheduled Completion*
GOAL 1	***Improve knowledge of the Earth's past and present climate and environment, including it natural variability, and improve understanding of the causes of observed variability and changes***		
Product 1.1	Temperature trends in the lower atmosphere—steps for understanding and reconciling differences. (<2 yrs)	NOAA	1st quarter 2006
Product 1.2	Past climate variability and change in the Arctic and at high latitudes. (<2 yrs)	USGS	2nd quarter 2008
Product 1.3	Reanalyses of historical climate data for key atmospheric features. Implications for attribution of causes of observed change. (2-4 yrs)	NOAA	2nd quarter 2008
GOAL 2	***Improve quantification of the forces bringing about changes in the Earth's climate and related systems***		
Product 2.1	Updating scenarios of greenhouse gas emissions and concentrations, in collaboration with the CCTP. Review of integrated scenario development and application. (<2 yrs)	DOE	4th quarter 2006
Product 2.2	North American carbon budget and implications for the global carbon cycle. (<2 yrs)	NOAA	1st quarter 2007
Product 2.3	Aerosol properties and their impacts on climate. (2-4 yrs)	NASA	3rd quarter 2007
Product 2.4	Trends in emissions of ozone-depleting substances, ozone layer recovery, and implications for ultraviolet radiation exposure and climate change. (2-4 yrs)	NOAA	2nd quarter 2008
GOAL 3	***Reduce uncertainty in projections of how the Earth's climate and related systems may change in the future***		
Product 3.1	Climate models and their uses and limitations, including sensitivity, feedbacks, and uncertainty analysis. (<2 yrs)	DOE	2nd quarter 2007
Product 3.2	Climate projections for research and assessment based on emissions scenarios developed through CCTP. (2-4 yrs)	NOAA	3rd quarter 2007

Product 3.3	Climate extremes including documentation of current extremes. (2-4 yrs)	NOAA	2nd quarter 2008
Product 3.4	Risks of abrupt changes in global climate. (2-4 yrs)	USGS	2nd quarter 2008 (We will update the 2002 NRC Report.)
GOAL 4	***Understand the sensitivity and adaptability of different natural and managed ecosystems and human systems to climate and related global changes***		
Product 4.1	Coastal elevation and sensitivity to sea-level rise. (<2 yrs)	EPA	3rd quarter 2007
Product 4.2	State-of-knowledge of thresholds of change that could lead to discontinuities (sudden changes) in some ecosystems and climate-sensitive resources. (2-4 yrs)	USGS	4th quarter 2007
Product 4.3	Analyses of the effects of global change on agriculture, biodiversity, land, and water resources.	USDA	4th quarter 2007 (Re-scoped to include biodiversity, land, and water resources.)
Product 4.4	Preliminary review of adaptation options for climate sensitive ecosystems and resources. (2-4 yrs)	EPA	4th quarter 2007
Product 4.5	Analyses of the effects of global change on energy production and use.	DOE	2nd quarter 2007 (Re-scoped to focus on energy systems.)
Product 4.6	Analyses of the effects of global change on human health and welfare and human systems.	EPA	4th quarter 2007 (Re-scoped to focus on human health and welfare.)
Product 4.7	Within the transportation sector, a summary of climate change and variability sensitivities, potential impacts, and response options. (2-4 yrs)	DOT	4th quarter 2007 (Re-scoped to add an overview of the state of knowledge review for potential impacts on national transportation systems.)
GOAL 5	***Explore the uses and identify the limits of evolving knowledge to manage risks and opportunities related to climate variability and change***		
Product 5.1	Uses and limitations of observations, data, forecasts, and other projections in decision support for selected sectors and regions. (<2 yrs)	NASA	4th quarter 2006
Product 5.2	Best-practice approaches to characterize, communicate, and incorporate scientific uncertainty in decisionmaking. (<2 yrs)	TBD	3rd quarter 2006

Product 5.3	Decision support experiments and evaluations using seasonal to interannual forecasts and observational data. (<2 yrs)	NOAA	4th quarter 2007