Theme A: Prediction and diagnosis of imminent global climate change Representative: Masahide Kimoto Vice Director/Professor, AORI, the University of Tokyo							
Research Subject (i) Understanding mechanisms of climate variability and change							
		Sub-Research Subject	Institutes & Representatives				
	а	Studies on prediction and predictability of climate variability from interannual to decadal time scales	AORI Associate Professor Masahiro Watanabe *				
	b-1)	Towards reducing uncertainty in model-based estimation of climate sensitivity	NIES Senior Researcher Tomoo Ogura *				
	b-2	Reduction of uncertainty in climate models relevant to climate sensitivity	JAMSTEC Senior Scientist Masaki Sato *				
Research Subject(ii) Development of an integrated prediction system for global climate studies							
		Sub-Research Subject	Institutes & Representatives				
	а	Development of a seamless prediction system for seasonal-to-decadal time scales	MRI Senior Researcher Masayoshi Ishii *				
	b	Development of data assimilation technology for optimizing initial and boundary conditions	JAMSTEC Research Unit Leader Hiroaki Tatebe *				

Theme B: Climate change projection contributing to stabilization target setting Representative: Michio Kawamiya Director, Project Team for Risk Information on Climate Change, Strategic Research and Development Area, JAMSTEC							
Research Subject(i) Long-term global change projection based on diverse scenarios							
		Sub-Research Subject	Institutes & Representatives				
	а	Development of an earth system model dealing with variations of greenhouse gasses, land use change, etc.	JAMSTEC Research Unit Leader Shingo Watanabe *				
	b	Information gathering and examination on socio-economic scenarios toward stabilization target setting	JAMSTEC Deputy Research Unit Leader Kaoru Tachiiri *				
	С	Integrated assessment on climate projection experiments and socio-economic scenarios	CRIEPI, Environmental Science Research Laboratory Deputy Associate Vice President Jyunichi Tutui *				
Research Subject(ii) Obtaining scientific perceptions on large-scale variations and modifications of climate							
		Sub-Research Subject	Institutes & Representatives				
	а	Development of technologies for numerical investigations on tipping elements and irreversibility of environmental changes (ice sheet collapse, etc.)	JAMSTEC Director Michio Kawamiya *				
	b	Development of technologies for numerical investigations on geoengineering (stratospheric aerosol injection, etc.)	JAMSTEC Director Michio Kawamiya *				

Theme C:Development of basic technology for risk information on climate change Represenrative:Izuru Takayabu Director, Atmosperic Environment and Applied Meteorology Research Department, Meteorological Research Institute						
Research Subject(i) Probabilistic climate projection for risk assessment						
		Sub-Research Subject	Institutes & Representatives			
	а	Efficient approach for climate ensemble experiment	NIED Senior Researcher Koji Dairaku *			
	b	Development of statistical methodology of ensemble data on climate change	ISM Associate Professor Genta Ueno *			
	С	Improvement in cost-efficiency of dynamical downscaling for ensemble data	AORI Associate Professor Kei Yoshimura *			
Research Subject(ii) Producing a standard climate scenario by using super high resolution models						
		Sub-Research Subject	Institutes & Representatives			
	а	Development of quantification method for reliability and uncertainty of climate change information	Tsukuba Univ. Professor Hiroaki Ueda *			
	b	Downscaling of the change in future weather extremes by using high-resolution models	MRI Director Izuru Takayabu *			
	C	Development of a coupled ocean-atmosphere non-hydrostatic model for typhoon research	ISEE CIDAS Professor Kazuhisa Tsuboki *			

Theme D:Precise impact assessments on climate change Represenrative:Eiichi Nakakita Vice Director/Professor, DPRI, Kyoto University							
Research Subject (i) Climate change impacts on natural hazards							
		Sub-Research Subject	Institutes & Representatives				
	а	Risk assessment of meteorological disasters under climate change	DPRI, Kyoto Univ. Associate Professor Tetusya Takemi *				
	b	Risk assessment of water-related disasters under climate change	Kyoto Univ. Professor Yasuto Tachikawa *				
	С	Risk assessment of coastal disasters under climate change	DPRI, Kyoto Univ. Associate Professor Nobuhito Mori *				
	d	Measuring socio-economic impacts of climate change and effectiveness of adaptation strategies	DPRI-Kyoto Univ. Professor Hirokazu Tatano *				
	e	Development of risk assessment and adaptation strategies for water–related disaster in Asia	ICHARM Deputy Director Katsuhito Miyake *				
Research S	ubject	(ii) Climate change impacts on water resources					
		Sub-Research Subject	Institutes & Representatives				
	а	Assessment of socio-economic impacts on water resources and their uncertainties under changing climate	DPRI, Kyoto Univ. Associate Professor Kenji Tanaka *				
		Assessment of climate change impacts on the social–ecological systems of	IIS Professor Taikan Oki * Institute of Engineering Innovation, School of Innovation, Univ. of				
	b	water resources and hydrological cycles	Tokyo S. A. Assist. Prof. Satoshi Watanabe				
			Graduate School of Information Science and Engineering, TITEC Associate Professor Shinjiro Kanae				
			NARO Chief Researcher Takao Masumoto				
Research S	ubject	(iii) Climate change impacts on ecosystem and biodiversity					
		Sub-Research Subject	Institutes & Representatives				
	а	Assessment of climatic impacts on ecosystem and biodiversity	Graduate School of Life Science, Tohoku Univ. Professor Toru Nakashizuka * Field Science Center for Northern				
			Biosphere, Hokkaido Univ. Professor Hideaki Shibata				
	b	Economic evaluation of ecosystem science	Graduate School of Life Science, Tohoku Univ. Professor Toru Nakashizuka *				
	С	Eco-climate system in Northeastern Eurasia and Southeastern Asian tropics: Impacts of global climate change	ISEE Associate Professor Tomo' omi Kumagai *				
	d	Assessment of multiple effects of climate change on coastal marine ecosystem	Hokkaido Univ. Graduate School of Environmental Science Professor Yasuhiro Yamanaka *				
			NIES, Center for Environmental Biology and Ecosystem Studies Senior Researcher Hiroya Yamano				