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	Abstracts for Speakers		
	Absir	Session 4	
	Abstract Title	Authors	
	Water Management: Application of Climate Science (WA) Sub-Theme 1: Water Supply Science and Information Needs		
WA1.1 WA1.2 WA1.3 WA1.4	Droughts and Floods: Better Predictions thru Attribution Climate in Three Dimensions: Integrated Mountain Climate Observations Climate Forecasts and Reservoir Management – Possibilities and Challenges Experiences from the Water Resources and Agricultural Sectors during Decupter: What Do Leser Ward? What Do Researchers: Ward?	Martin Hoerling Kelly Redmond Sankar Arumugam, Upmanu Lall, Casey Brown, Neil Ward R. Webb, R. Pulwarty, D. Kenney, S. Jain, A. Ray, B. Udall, K. Wolter	
WA1.5	What is Needed? Managing Seattle's Water Supply in Step with a Changing Climate	Daniel Basketfield	
	Water Management: Application of Climate Science (WA) Sub-Theme 2: Climate-Related Decision Support for Water Allocation Use		
WA2.1 WA2.2 WA2.3 WA2.4 WA2.5	A RISA Success Story-The Southeast Climate Consortium Users Making Decisions for Water Allocation Walking the Talk: RISA Drought Insights for CCSP Robust Adaptation Decisions amid Climate Change Uncertainties Adapting New York City's Water Supply and Wastewater Treatment Systems to Climate Change	James J. O'Brien Eric Kuhn Gregg Garfin, Greg Carbone, Dan Cayan, Keith Ingram, Philip Mote, Eileen Shea, Brad Udall Suraje Dessai, Mike Hulme Emily Lloyd, David C. Major, Cynthia Rosenzweig, Kate Demong, Christina Stanton	
	Ecosystems Management: Application of Climate Science (EC) Ecosystems Decision Support and Adaptive Responses		
EC1.1 EC1.2	The Role of Climate Science in U.S. Crop Insurance Providing a Science-Practice Interface to Decision Makers through Global Environmental Change and Food Systems (GECAFS) Decision Support System Research	Thomas P. Zacharias Arvin Mosier, Jim Jones, Steve Sonka, Greg Kiker, John Ingram, Mike Brklacich	
EC1.3 EC1.4 EC1.5	Active Fire Observations from MODIS to Support Decision Making Assessing Impacts of Changing Land Use, Climate and Atmospheric Chemistry on Forests of the Chesapeake Bay Watershed Designing Wetland Conservation Strategies under Climate Change	I. Csiszar, C.O. Justice, J. Descloitres, D. Davies, L. Giglio, R. Sohlberg Richard Birdsey, Yude Pan, Eric Sprague, John Hom, Kevin McCullough Jiayi Li, Elizabeth Marshall, James Shortle, Richard Ready, Carl Hershner	
EC1.6 EC1.7 EC1.8	A Tool for Screening Projects for Risks from Climate Change Ocean Climate Decision Making Systems for Predicting Catch in Pelagic Fisheries The Implications of Climate Change in the Management of Vulnerable Species The Care Study of Polar Pager	lan Noble, Fareeha labal Mitchell A. Roffer George M. Durner, Steven C. Amstrup, David C. Douglas, Gennady I. Belchansky, Geoffery York, Ryan Nielson, Tract M. Donald	
EC1.9 EC1.10	TNC's Adaptation Efforts in Conservation Landscapes: Models for Federal Land Managers? Linking Health and Environmental Data in a Public Health Surveillance System	Earl Saxon, Bill Stanley, Sam Pearsall Doug Rickman, Amanda Sue Niskar, Judith Qualters, Dale Quattrochi, Maury Estes, Ashutosh Limaye, William Crosson, Mohammad Al-Hamdan	
	Coastal Management: Application of Climate Science (CO) Sub-Theme 1: Climate and Coastal Infrastructure: Applications and Infor	mation Needs	
CO 1.1	Climate and Coastal Communities: Improving the Decision-Making Process	Eileen L. Shea	
CO1.2	Using Paleotempestology in Support of Decision Making Under Uncertainty of Hurricane Climate Variability	Kam-biu Liu	
CO1.5 CO1.4	Informing Decision Makers of the Potential Impacts of Sea Level Rise on the Coastal Region of New Jersey, USA	Michael D. Beevers, Matthew J.P. Cooper, Michael Oppenheimer	
CO1.5 CO1.6	Overview of Information Needed to Adapt to Rising Sea Level Sea Level Rise and Ground Water Sourced Community Water Supplies in Florida	James Titus John Furlow, Randall Freed, Susan Herrod-Julius	
CO1.7 CO1.8 CO1.9	Context and Climate Change: Lessons from Barrow, Alaska Climate Change and Coastal Cities: Information for Decision Making A Resource Manager's Perspective on Applications and Information Needs	Ronald D. Brunner, Amanda Lynch, James Maslanik Roberta Balstad, W. Christopher Lenhardt Susan Snow-Cotter	
	Coastal Management: Application of Climate Science (CO) Sub-Theme 2: Climate and Coastal Ecosystems: Supporting Adaptive Mag	nagement	
CO2.1	Understanding the Future of Coastal Wetlands in the Face of Sen-Level Rise: Lessons from Coastal Louisiana	Denise J. Reed	
CO2.2	SELVA-MANGRO: An Integrated Landscape and Stand Simulation Model for Predicting Mangrove Forest Growth and Distribution	Thomas Doyle, Kenneth Krauss, Jason Sullivan, Andrew From	
CO2.3	ucross the Evergiaaes coastal margin under Changing Climate Using Climate Change to Information to Support Adaptive Coastal Conservation	Lynne Hale	
CO2.4 CO2.5	An Information Guide for Strategic Management of Coral Reefs in a Changing Climate A Resource Manager's Perspective on Supporting	Jordan West, Paul Marshall, Heidi Schuttenberg, Roger Griffis Billv Causev	
	Adaptive Management		

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	Abstract Title	Authors
	Air Quality Management: Application of Climate Science (AQ) Sub-Theme 1: Climate Change, Air Quality and Human Health	
AQ1.1 AQ1.2 AQ1.3 AQ1.4	Review of the Health Effects Potentially Associated with Projected Changes in Concentrations of Air Pollutants and Aeroallergens Impact of Climate Change on Air Pollution Episodes in the United States Ozone Air Quality Management through Methane Emission Reductions: Global Health Benefits EPRI Workshop on Interactions of Climate Change and Air Quality: Findings and Recommendations	Kristie Ebi L.J. Mickley, D.J. Jacob, B.D. Field, D. Rind, J.S. Fu, J.H. Seinfeld, D.G. Streets J. Jason West, Arlene M. Fiore, Larry W. Horowitz, Denise L. Mauzerall Daniel J. Jacob
	Air Quality Management: Application of Climate Science (AQ) Sub-Theme 2: Linking Climate Change Research to Air Quality Decisions	
AQ2.1 AQ2.2 AQ2.3 AQ2.4 AQ2.5	Towards an Integrated Observing System for Air Quality Decision Making Integrating Climate Modeling and Remote Sensing Data to Improve Public Health Decision Support Tools - Part I Supporting Long-Term Regional Air Quality Management in Response to Global Change Application of an Integrated Modeling System for Climate and Air Quality Change Studies at Regional to Local Scales Development and Evaluation of a Methodology for Determining Air Pollution Emissions Relative to Geophysical and Societal Change	Doreen Neil, R.B. Pierce, James Szykman, Jack Fishman Stanley Morain, Amelia Budge, Karl Benedict, William Hudspeth, Thomas Budge, Gary Sanchez, William Sprigg Dan Loughlin, Gary Kleiman, Bryan Hubbell, Darryl Weatherhead Xin-Zhong Liang, Ho-Chun Huang, Allen Williams, Michael Caughey, Kenneth Kunkel, Donald Wuebbles Allen Williams, Geoffery Hewings, Zhining Tao, Kieran Donaghy, Donald Wuebbles
	Energy Systems: Application of Climate Science (EN) Brief Overview	
ENO.1 ENO.2	Brief Overview: CCSP Activities Informing Decision Making Brief Overview: CCTP Activities Informing Decision Making	Jerry Elwood David Conover
	Energy Systems: Application of Climate Science (EN) Sub-Theme 1: Science Informing Operational and Short-Term Decision Making	
EN1.1 EN1.2 EN1.3 EN1.4	Climate Science Applications to Support Short-Term, Operational Decision Making for a Utility and for Financial Commodities Trading NASA Satellite Measurements and Modeling Contributions to Decision Support in the Energy Sector Climate Forecasts for Improving Management of Energy and Hydropower Resources in the Western U.S. Translating Research Results into Resource Plans at the State Level	David D'Arcangelo Richard S. Eckman, Paul W. Stackhouse, Mayra N. Montrose Anthony Westerling, Eric Alfaro, Mary Altalo, Tim Barnett, Todd Davis, Phil Graham, Alan Hamlet, Dennis Lettenmaier, David Pierce, Anne Steinemann, Nathalie Voisin Franco Guido
	Energy Systems: Application of Climate Science (EN) Sub-Theme 2: Long-Term Planning and Investment, Including Carbon Management and Integrated Assessment	
EN2.1 EN2.2 EN2.3 EN2.4 EN2.5 EN2.6	Science Needs to Inform Long-Term Decision Making in the Energy Sector Improving Climate Information for Hydroelectric Dam Relicensing Planning Bio-Energy Options: Climate Feedbacks and Information Needs Science for Carbon Management: Making Effective Connections Between Users and Producers of Information The Future of Integrated Assessment Modeling as a Decision Support Tool for Energy and Climate Tools for Interactive Decision Making under Uncertainty on Energy and Climate Change	TBD Kirstin Dow, Greg Carbone, Kirsten Lackstrom Robin L. Graham L. Dilling, D. Fairman, R. Pielke, A. King Gerald Stokes Jurgen Scheffran



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	Abs Evening Sess	tracts for Posters: ion – 14 November 2005			
	Abstract Title	Authors			
	Decision Support: Processes & Products (P-DS) Sub-Theme 1: Scientific Assessments				
P-DS1.1 P-DS1.2 P-DS1.3 P-DS1.4 P-DS1.5 P-DS1.6 P-DS1.7 P-DS1.8 P-DS1.10 P-DS1.11 P-DS1.12 P-DS1.13	CCSP Poster on Synthesis and Assessment Product 1.2: Past Climate Variability and Change in the Arctic and at High Latitudes Climate Projections for Research and Assessment Based on Emissions Scenarios Developed through the CCTP - Synthesis and Assessment Product 3.2 CCSP Poster on Synthesis and Assessment Product 3.4: Risks of Abrupt Changes in Global Climate National Academies Reports on Radiative Forcings and Climate Change Heedbacks CCSP Synthesis and Assessment Product 4.2: State-of-knowledge of Thresholds of Change that Could Lead to Discontinuities (Sudden Changes) in Ecosystems and Climate-Sensitive Resources CCSP Poster on Synthesis and Assessment Product 4.3: The Effects of Climate Change on Agriculture, Biodiversity, Land, & Water Resources CCSP Synthesis and Assessment Product 4.4: Preliminary Review of Adaptation Options for Climate Sensitive Ecosystems and Resources CCSP Synthesis and Assessment Product 4.5: Analyses of Effects of Global Change on Energy Production and Consumption CCSP Synthesis and Assessment Product 4.6: Analyses of the Effects of Global Change on Human Health and Welfare and Human Systems CCSP Synthesis and Assessment Product 5.2: Best Practice Approaches for Characterizing, Communicating and Incorporating Scientific Uncertainty in Climate Decision Making The National Academies: Informing National Decisions on Climate and Global Change Lessons Learned from Decision Support Processes in Place-based Settings Meeting Societal Needs: Regional Integrated Assessments in Sunort of Decision Making	Thomas R. Armstrong, Joan Fitzpatrick Hiram Levy Thomas R. Armstrong Ian Kraucunas, Chris Elfring, Amanda Staudt, Daniel Jacob, Dennis Hartmann Jack Waide, William Hohenstein, Bryce Stokes, Jeff Amthor, Susan Herrod-Julius, Kenric Osgood, Henry Gholz William Hohenstein, Bryce Stokes, Jack Waide, Jeff Amthor, Susan Herrod-Julius, Woody Turner, Paula Bontempi, Ned Cyr, Tom O'Connor, Kenric Osgood, Henry Gholz, Phil Taylor Susan Julius, Bryce Stokes, Bill Hohenstein, Jack Waide, Woody Turner, Ed Sheffner, Kenric Osgood, Ned Cyr Tom Wilbanks, Jerry Elwood Janet L. Gamble, Anne Grambsch, John Houghton, Lawrence Friedl, Caitlin Simpson M. Granger Morgan Gregory Symmes Janet Gamble, Frances Sussman, Susan Julius, Randy Freed, John Furlow, Melinda Harris, Jordan West Amy Luers, Peter Frumhoff, Susanne Moser			
P-DS1.14	A Synthesis and Outreach Program on Climate Variability and Change Research in the Northeastern U.S. and Eastern Canada Decision Support: Processes & Products (P-DS)	Lindsey Rustad, Roger Cox, Marc Deblois, Jeffrey Dukes, Andrew Richardson ,Barry Rock, Mark Watson , Norman Willard			
P-DS2.1 P-DS2.2 P-DS2.3	Sub-Theme 2: Estimation & Communication of Uncertainty Sources, Characterization, and Communication of Uncertainty in Climate Impacts Risk Modeling Using Multiple Probability Distributions for the Climate Sensitivity Simple Climate-Economy Models: Transparent Tools for Policy Making or Opaque Screen Hiding Methodological Arbitrariness?	Bryan Pijanowski, Marianne Huebner, Brent Lofgren Paul Baer, Michael Mastrandrea, Malte Meinshausen Hans-Martin Füssel			
	Decision Support: Processes & Products (P-DS) Sub-Theme 3: Interface Between Users & Information				
P-DS3.1 P-DS3.2 P-DS3.3 P-DS3.4 P-DS3.5 P-DS3.6	Ensuring Climate Services for the Nation SPARC: Science Policy Assessment and Research on Climate The Multiple Audiences Problem in Constructing Effective Syntheses of Scientific Information for Purposes of Influencing Public Policy An Analysis of Some Problems in the Transmission and Use of Climate Research by Public Policy Decision Makers and Some Suggestions for Improving the Process Using Currently Available Tools Development and Gap Analysis of Climate Change Educational Resources Collection for K-12 Documenting Glacier Change and Landscape Evolution: An Alaskan Example of Providing Scientific Information to Support Decision Making and Outreach and Education	Roger Pulwarty, Kelly Redmond, Fiona Horsfall, Phil Pasteris, Nolan Doesken, Harvey Hill Roger Pielke Jr. William F. Eadie, Kerk F. Kee Myron Ebell, Christopher Horner, Marlo Lewis, Iain Murray Mark S. McCaffrey, Frank Niepold Bruce Molnia			
	Decision Support: Processes & Products (P-DS) Sub-Theme 4: International				
P-DS4.1 P-DS4.2 P-DS4.3 P-DS4.4	Robust Adaptation Decisions amid Climate Change Uncertainties Decision Systems Research and Tool Development at the IRI Applying Climate Variability/Change Information for Early Warning and Response Decision-Making: Lessons Learned from the Conflict Early Warning and Response Mechanism (CEWARN) Climate Change Science for Development	Suraje Dessai, Anglia, Mike Hulme Neil Ward, James Hansen, Sankar Arumugam, Daniel Osgood, Lareef Zubair, Casey Brown, Ashok Mishra Patrick Meier Keya Chatterjee, Jon Padgham			



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	Abstract Title	Authors	
	Food Production (P-FP) Sub-Theme 1: Remote Sensing Applications		
P-FP1.1 P-FP1.2 P-FP1.3 P-FP1.4 P-FP1.5	The Multiple Roles of Satellite Data in Livelihood Based Famine Early Warning for Decision Makers Global Agricultural Monitoring: Science Information to Inform Decision Making An Agricultural Information System Based on Satellite Remote Sensing Data for Decision Making Integrating Remote Sensing and other Products into the Decision Support Systems of the United Nations World Food Programme Climate Constraints, Water Limitation and Global Food Security	Molly Brown, Christopher Funk, Tanya Boudreau, Compton Tucker Chris Justice, Brad Dorn, Matthew Hansen, Jim Tucker, Assaf Anyamba, Mark Sullivan, Inbal Reshef Bill Teng Zhong Liu, Lenard Milich, William Teng, Long Chiu, Steven Kempler, Hualan Rui Felix Kogan	
	Food Production (P-FP) Sub-Theme 2: Regional International Applications		
P-FP2.1 P-FP2.2	A Prototype, Scenario-Based, Decision Support System for Integrating Food Security and Ecosystem Management in Jamaica Climate Change Impact on Food Security and Policy Adaptations: A Synthesis from Selected African Countries	Greg Kiker, Mindy Kiker, Arvin Mosier, Jim Jones, Igor Linkov Tanveer A. Butt, Bruce A. McCarl	
	Food Production (P-FP) Sub-Theme 3: Impact Modeling		
P-FP3.1 P-FP3.2 P-FP3.3 P-FP3.4	Linking Seasonal Climate Forecasts with Crop Simulation to Optimize Maize Management Effects of Climate Variability on Irrigation Water Use in the Southeastern United States Impact of Climate Information in Reducing Farm Risk by Selecting Crop Insurance Programs A Climate-based Tool for Agricultural Nitrogen Management Decisions	Ashok Mishra, James Hansen, K.P.C. Rao, Durton Nanja, Elijah Mukhala J.O. Paz, G. Hoogenboom, A. Garcia y Garcia, L.C. Guerra1, J.G. Bellow, C. W. Fraisse, J.W. Jones Victor Cabrera, Clyde Fraisse, David Letson, Guillermo Podesta, James Novak Arthur T. DeGaetano, Laura Joseph, Jeffrey J. Melkonian	
	Food Production (P-FP) Sub-Theme 4: Decision Support Projects & Programs		
P-FP4.1 P-FP4.2 P-FP4.3	Applications of Climate Information to Agriculture in the Southeast USA: A Perspective from Agricultural Extension Services The Pileus Project: Climate Science in Support of Decision Making Farmer Climate Risk Management: Insights into Climate Change Adaptation Capacity	Joan Dusky J. Roy Black, Julie A. Winkler, Jeffrey A. Andresen, Jeanne Bisanz, Costanza Zavalloni Jennifer Phillips, David Krantz, Brad Lyon	
	Ecosystems (P-EC) Sub-Theme 1: Observations & Applications		
P-EC1.1 P-EC1.2 P-EC1.3 P-EC1.4	Influence of Climate Variability on Regional Vegetation and Water Cycle over the East Coast of the United States Satellite-derived MODIS Vegetation Attributes: Indicators of Climatic Effects on Biodiversity and Productivity Across the U.S.A.? Altered Climate and Ecosystem Response: The Long-Term Ecological Research Program (LTER) Climate LINKages of UPland-Lowland Environments (LINKUP)	Donglian Sun, Menas Kafatos, Ruixin Yang J.M. Nightingale, N.C. Coops, R.H. Waring, W. Fan Jim Gosz, Mark Williams, Deb Peters, Alan Knapp Henry Diaz	
	Ecosystems (P-EC) Sub-Theme 2: Wildfire		
P-EC2.1 P-EC2.2 P-EC2.3 P-EC2.4 P-EC2.5 P-EC2.6	Addressing the Impact of Climate Change on Wildland Fires Keepers of the Flame: The Role and Use of Climate in National and Regional Fire Policy Using Fire and Climate History for Assessing Current and Future Fire Hazards Using Satellite-Based Fire Products to Enhance the National Emissions Inventory The MODIS Rapid Response Project: A New Suite of Remote Sensing Products in Support of Decision Making Statistical Modeling of Western Wildfire Season Severity for Decision Support	Margaret R. McCalla, Mary M. Cairns, Mark J. Welshinger Timothy Brown, Roger Pulwarty Thomas Swetnam, Michael Crimmins, Barbara Morehouse Amber Soja, Jay Al-Saadi, Brad Pierce, James Szykman, David J. Williams, Tom Pierce, Tom Pace, Joe Kordzi Jacques Descloitres, Jeff Schmaltz, Jackie Kendall, Louis Giglio, Chris Justice, Holli Riebeek Anthony Westerling, Tim Barnett, Daniel Cayan, Michael Dettinger, Alexander Gershunov, Hugo Hidalgo	
	Ecosystems (P-EC) Sub-Theme 3: Land & Wildlife Management		
P-EC3.1 P-EC3.2 P-EC3.3	Decision Support Tools for Adaptive Forest Management Interim Wildlife Management and Global Climate Redesigning Conservation for Climate Change	William T. Sommers Douglas Inkley Lara Hansen, Eric Mielbrecht, Jennifer Biringer, Jennifer Hoffman	

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	Abs Evening	tracts for Posters: Session (continued)	
	Abstract Title	Authors	
	Ecosystems (P-EC) Sub-Theme 4: Projections		
P-EC4.1 P-EC4.2 P-EC4.3 P-EC4.4 P-EC4.5 P-EC4.6	A Modeling Study of Climate-Ecosystem Interaction Over North America Transient Dynamics of Vegetation Response to Past and Future Major Climatic Changes in the Southwestern United States Potential Widespread Forest Dieback in North America: What is the Price of Uncertainty Vulnerability of Northern Prairie Wetlands to Climate Change: Implications for Waterfowl Eastern Deciduous Forest Responses to Climatic Change Drivers: An Upland-Oak Forest Case Study Rising Atmospheric Carbon Dioxide as a Factor in the Success of Invasive Weeds	Ming Chen, Huiting Mao, Robert Talbot Kenneth Cole, Kirsten Larsen, Phillip Duffy, Samantha Arundel Ronald P. Neilson, James M. Lenihan, Dominique Bachelet, Raymond J. Drapek, F.I. Woodward, M. Lomas, The VINCERA investigators Glenn Guntenspergen, Carter Johnson, David Naugle Paul J. Hanson, Stan D. Wullschleger, Jeffery S. Amthor L.H. Ziska	
	Carbon (P-CA) Sub-Theme 1: Sequestration in Ecosystems		
P-CA1.1 P-CA1.2 P-CA1.3 P-CA1.4 P-CA1.5 P-CA1.5 P-CA1.6 P-CA1.7 P-CA1.8 P-CA1.9	Using Ecosystem Models to Inventory and Mitigate Environmental Impacts of Agriculture Renewable Energy as an Emission Control Alternative: Agricultural and Forestry Sector Roles Estimating U.S. Forest-Agriculture Climate Change Mitigation Opportunities at the National and Regional Scales using Economic, Policy, and Co-Benefits Criteria A Modeling Framework to Relate Agricultural Practice, Land-Use Change, Energy Use, and Greenhouse Gas Emissions on Agricultural Lands in the USA: Integrating Carbon Accounting with Survey Data, Remote Sensing, and Economic Modeling Determining the Long-Term Impact of Bioenergy Crops on the Global Warming Potential of Energy Use COLE: Carbon OnLine Estimation Web Tool for Continental U.S. Forest Ecosystems Spatial Biological and Industrial Carbon Budgets for Northern WI Carbon Sequestration Potential in New Mexico Rangelands Summer and Winter Precipitation: Effects on Carbon Sequestration and Timber Production under Current and Future Atmospheric CO ₂	 Stephen Del Grosso, Steve Ogle, William Paron, Keith Paustian, Ronald Follett B.A. McCarl, J.C. Cornforth, R. Ismailova, W. You, M. El Halwagi, T. Mohan, X. Qin Brian Murray, Bruce McCarl, Kenneth Andrasko, Benjamin DeAngelo, Brent Sohngen Tristram West, Gregg Marland, Craig Brandt, Daniel De La Torre Ugarte, James Larson, Budhendra Bhaduri, Sally Mueller, Aarthy Sabesan, Chad Hellwinkle, Brad Wilson Paul R. Adler, Steven J. Del Grosso, William J. Parton, William E. Easterling Linda S. Heath, Paul C. Van Deusen, Michael P. Spinney, Jeffrey H. Gove, James E. Smith D.E. Ahl, M.K. White, S.T. Gower, B. Bond-Lamberty, D. Helmers, S. Peckham Jay Angerer, Joel Brown, Robert Blaisdell, Jerry Stuth Ram Oren, Heather McCarthy, Sari Palmroth, Kurt Johnsen 	
	Carbon (P-CA) Sub-Theme 2: Emissions, Budgets, & Processes		
P-CA2.1 P-CA2.2 P-CA2.3 P-CA2.4 P-CA2.5	Nutrient Management to Enhance Carbon Sequestration in Piedmont Forests of the Southeastern U.S. Unaccounted Soil Carbon Stocks Estimating Soil C Changes for the US 1605B Program "Voluntary Reporting of Greenhouse Gas Mitigation" Practical Applications of Uncertainty Analysis for National Greenhouse Gas Inventories Spatiotemporally Explicit Maps of Anthrongeneir CO. Emissions for NACP	Peter Kapeluck, Wayne Carroll, David Van Lear, Elena Mikhailova, Christopher Post, Mark Schlautman, Wilfred Post, Chuck Garten, Phillip Jardine Elena Mikhailova, Christopher Post, Kim Magrini-Bair Keith Paustian, John Brenner, Stephen Ogle, Mark Easter, Kendrick Killian, Jill Schuler, Steve Williams Michael Gillenwater, Fran Sussman, Jonathan Cohen Marc Fischer, Kevin Gurney, Scott Denning, Steve Knox, Gregg Marland, Dennis Ojima, Lynn Price, Jayant Sathaye	
P-CA2.6 P-CA2.7 P-CA2.8 P-CA2.9	Time Series Calibrated Carbon Emissions and Atmospheric Response Carbon America: Providing Regional Carbon Emissions and Uptake Information for Carbon Management Monitoring CO, from Space: The NASA Orbiting Carbon Observatory Mission Methane Emissions from Natural Wetlands in the United States:	Clifford E. Singer David Hofmann, Pieter Tans David Crisp, The OCO Team Christopher Potter, Steven Klooster, Seth Hiatt, Matthew Fladeland, Peggy Gross	
P-CA2.10 P-CA2.11 P-CA2.12 P-CA2.13 P-CA2.14 P-CA2.15	Satellite-Derived Estimation Based on Ecosystem Carbon Cycling Carbon Budgets for Ecosystems of the Continental United States The U.SChina Carbon Consortium (USCCC) and Its Contribution to Global Change Studies Urban and Regional Carbon Management: Comparative Framework of the Global Carbon Project A Bayesian Synthesis Inversion of Carbon Cycle Observations: How Do Observations Reduce Uncertainties About Future Sinks? Methodology and Cost of Evaluating Soil Carbon Stocks in a 2-m Soil Profile Carbon-Climate System Feedbacks to Natural and Anthronogenic	Christopher Potter, Steven Klooster, Vanessa Genovese, Matthew Fladeland Jiquan Chen Penelope Canan Daniel Ricciuto, Klaus Keller, Kenneth Davis Christopher Post, Elena Mikhailova, Kim Magrini-Bair S.C. Donev, I. Funa, K. Lindsav, J. John	
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	Coastal (P-CO) Sub-Theme 1: Built Environment and Hazards		
P-CO1.1 P-CO1.2 P-CO1.3	Space Based Data and Technology Applied to Gulf Coast Geodesy Impact of Sea-Level Rise on the Mid- and Upper-Atlantic Coast An End-User Defined Coastal Climatology Product for Recreation and Twicer in Southeastern Nether Coroling	Roy K. Dokka, Steven Baig, Ronald G. Blom, Tim Dixon, Eric Gurrola, Paul Rosen Shuang-Ye Wu, Raymond Najjar, John Siewert Douglas W. Gamble, Lynn Leonard	
P-CO1.4 P-CO1.5	Global Climate Change Impacts on Coastal Infrastructure Services Which Uncertainties Matter for Decision-Making? Development of an Integrative Decision-Centered Screening Tool with an Analication to Coastal Management in California	Rae Zimmerman Susanne Moser	
P-CO1.6	The Consortium for Atlantic Regional Assessment: Bringing Climate and Land Use Change Information to Local and Regional Decision Makers	Brandi Nagle, James Shortle, Rachael Dempsey, Jennison Kipp	
	Coastal (P-CO) Sub-Theme 2: Wetlands		
P-CO2.1	Choice Modeling Tools to Inform Climate Change Decision-Making: A Case Study on Public Preferences for Coastal Wetland Restoration	Frank Lupi, Michael Kaplowitz, John Hoehn	
P-CO2.2 P-CO2.3	Sea Level Rise and Potential Change in Coastal Bird Habitat in New Jersey, USA Prediction of Ecological Effects of Sea Level Rise in North Caroling	Michael D. Beevers C. Auer I. Feven K. Hess F. Snarao, S. White, J. Sellars, S. Gill	
P-CO2.4 P-CO2.5	through Coupled Hydrodynamic, Digital Elevation, & Habitat Models Predicting the Persistence of Coastal Wetlands to Global Change Effects Studies of Climate-Driven Changes in Lake Levels Assist in Decision	Glenn Guntenspergen, Donald Cahoon Douglas A. Wilcox, Todd A. Thompson, Steve J. Baedke	
	Making in the Great Lakes Region Coastal (P-CO)		
P.(031	Sub-Theme 3: Keets and Fisheries	John W. McManus Falimon C. Gavanilo. Amit I. Hazra. Marilyn F. Brandt Aletta T. Yö'96iawaz. Wada T. Conner	
P-CO3.2	under Changing Climates Coupling Remote Sensing and In-Situ Data to Derive a	Johnathan Kool, Catherine A. Bliss Dwight K. Gledhill	
P-CO3.3	Climate and Ecosystem Research to Advance Fisheries Management	Kenric E. Osgood	
	Water & Energy (P-WE) Sub-Theme 1: Decision Support Applications: Practice & Theory		
P-WE1.1 P-WE1.2 P-WE1.3	Pacific ENSO Applications Center (PEAC): The First Decade Climate Change - A Looming Challenge for California: Applying State and Federal Science to Inform Decision Makers The Western Water Assessment:	Eileen Shea Daniel Cayan, Michael Dettinger, Kelly Redmond, Anthony Westerling, Guido Franco, Frank Gehrke, Mary Tyree, Noah Knowles, Hugo Hidalgo, Alexander Gershunov, Laura Edwards, David Pierce, Peter Bromirski Bradley Udall, Roger Pulwarty, Martyn Clark, Doug Kenney, Chris Goemans, Randy Dole, Susan Avery	
P-WE1.4	Integrated Sciences for Decision Support Effecting Systemic Change in Climate Information Delivery and Decision Support	Holly Hartmann	
P-WE1.5	Barriers to Weather and Climate Forecast Use by Community Water System Managers	Brent Yarnal, Robert O'Connor, Kirstin Dow, Christine L. Jocoy, Greg Carbone	
P-WEI.6	Integrating Climate Information into Decision Making for Support of Water Management: A Protocol	Qi Hu, Roger Bruning, Lisa Pytlik <i>L</i> illig, Gary Lynne, Kenneth Hubbard	
P-WE1./	to Climate Variation and Change	John narringion, brein tarnai, Anarew Comrie, Coin Poisky Jeonard Berry, Jakhdar Roukerrou	
P-WE1.9	Special Reference to Water Adapting New York City's Water Supply and Wastewater Treatment	David C. Major, Cynthia Rosenzweig, Kate Demong, Christina Stanton	
P-WE1.10	Systems to Climate Change The Water Cycle Solutions Network	Paul Houser, Debbie Belvedere, Bisher Imam, Rick Lawford, Fritz Policielli, Robert Schiffer, C. Adam Schlosser,	
P-WE1.11 P-WE1.12 P-WE1.13	Demonstrating Land Information System Decision Support Solutions Drought Monitoring in Oklahoma: A Collaborative Endeavor Applying Planetary Water and Energy Cycle Science and Observations to Regingl and Lorg In Decision Medicing in the Water Sector	Hoshin Gupta, David Toll, Claire Welty, Charles Vorosmarty, David Matthews Paul Houser, Kristi Aresnault, Christa Peters-Lidard, David Toll Mark A. Shafer, S. Arndt Rick Lawford	
P-WE1.14	Development and Presentation of Climate-Based Streamflow Forecast Tools for Water Resource Mananes in the Punet Sound Region	Richard Palmer, Matthew Wiley	
P-WE1.15 P-WE1.16	Water Supply Forecasting for the Western U.S. Hydroclimatic Reconstructions for Decision Support in the Colorado River Basin	Phillip Pasteris, Tom Pagano Connie Woodhouse, Robert S. Webb, Gregg Garfin, Brad Udall	
P-WE1.17 P-WE1.18 P-WE1.19	California's Coupled Water and Energy Response to Climate Change The Role of Climate Change in Thermoelectric Cooling Water Systems Climate-Driven Increases in Extreme Heat and Energy Demand in California	Norman Miller, Larry Dale, Tariq Kadir B.T. Smith, A.W. King, M Branstetter, C C. Coutant, P.J. Mulholland, M.J. Sale Norman L. Miller, Katharine Hayhoe, Jiming Jin	
P-WE1.20 P-WE1.21	Climate Change Impacts on California's Energy Security Planning Using Climate Models Output in Adapting to Climate Change	Steven Fernandez, James Bossert, Loren Toole, Sam Flaim Joel B. Smith, Tom M. L. Wigley	

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	Abstracts for Posters: Evening Session (continued)		
	Abstract Title	Authors	
	Water & Energy (P-WE) Sub-Theme 2: Science & Information Tools		
P-WE2.1 P-WE2.2	Giovanni - A Vital Tool Enabling Rapid and Accurate Climate Data Analysis for Evaluation, Assessment, and Research Global Land Data Assimilation System (GLDAS) Products Available	James G. Acker, Stephen Berrick, Gregory Leptoukh, Steven Kempler, Zhong Liu, Hualan Rui, William Teng, Suhung Shen, Tong Zhu, James Johnson Matthew Rodell	
P-WE2.3	Drought Monitoring and Applications of NASA's Hydrosphere States Mission	Christa Peters-Lidard, Peggy O'Neill, Dara Entekhabi, Eni Njoku, Paul Houser, Randy Koster	
P-WE2.4 P-WE2.5	The Hydrologic Ensemble Prediction Experiment (HEPEX) Project Climate Services for Water Resources Decision Support: An Overview of the State of the Practice and Some Implications Associated with Chen Warenie	John Schaake Alan Hamlet, Edward Miles, Edward Sarachik	
P-WE2.6	Assessing the Implications of Climate Variability and Channe for Western Water Resources	Andrew W. Wood, Dennis P. Lettenmaier, Tim P. Barnett	
P-WE2.7	Impacts of a Warming Climate on Water Availability in Snow-Dominated Regions	Jennifer Adam, Tim Barnett, Dennis Lettenmaier	
P-WE2.8	Effects of Water Resources: Monitoring Snowmelt Runoff and Sea Level for Climate Change	Maury Roos	
P-WE2.9	Regional Impacts of Climate Change, Landuse Change, and Human Population Dynamics on Water Availability and Demand geneses the Southeastern U.S.	Ge Sun, Steven G. McNulty, Erika Cohen, Jennifer Moore Myers, David Wear	
P-WE2.10	Decision Support System for the Effects of Climate Change	Carl W. Chen, Laura H.Z. Weintraub, Limin Chen, Joel W. Herr, Paul M. Rich, R.A. Goldstein	
P-WE2.11	An Assessment of the Effectiveness of Riparian Buffers for Reducing Sediment Loading to Streams Under Alternative	T. Johnson, M. Huang, J. Furlow, C. Rogers, R. Freed, D. Pape	
P-WE2.12	Climate Change Scenarios Assessing the Impact of Climate Change on the Hydrology and Water Quality of the Upper Mississippi River	Eugene Takle, Manoj Jha, Christopher Anderson, Phil Gassman	
	Air Quality and Health (P-AQ)		
P-AQ1.1	Integrating Climate Modeling and Remote Sensing Data to Improve	Dazhong Yin, Brian Barbaris, William A. Sprigg	
P-AQ1.2 P-AQ1.3	Possibilities and Challenges in Using Satellite Data for PM2.5 Forecasts Satellite-Derived High Resolution Land Use/Land Cover Data to	Mian Chin, Hongbin Yu, Allen Chu Dale Quattrochi, William Crosson, Maury Estes, Maudood Khan	
P-AQ1.4	Improve Urban Air Quality Model Forecasts and Decision Making Global Atmospheric Pollution Studies Using Space-Based Observations Alongside Global Modeling and Data Assimilation Tools Developed	Steven Pawson, Ivanka Stajner, Julio Bacmeister, Andrew Tangborn	
P-AQ1.5	in NASA's Global Modeling and Assimilation Office Effects of Urbanization on Meteorology, Biogenic Emissions, and Air Quality in the Houston-Galveston Area (HGA) in Texas, USA	Daewon Byun, Soontae Kim, Fang-Yi Cheng	
P-AQ1.6 P-AQ1 7	Accounting for Uncertainty in Future Climate Change and Evaluating its Effects on Regional Air Quality	Kasemsan Manomaiphiboon, Armistead G. Russell, Chien Wang, Cassandra B. Roth, Lai-Yung Leung, Jung-Hun Woo, Praveen Amar, Shan He Fllan Conter, Robert Gilliam Alice Gilliand William Reniev, Jenise Swall, Chris Nolto	
P-AQ1.8	on Regional Air Quality over the United States Assessing Potential Health Impacts of Ozone	Patrick Kinney, Michelle Bell, Christian Hoarefe, Cynthia Rosenzweia, Kim Knowlton	
P-AQ1.9 P-AQ1.10	and PM2.5 Under a Changing Climate Criteria for Evaluation of Heat Event Early Warning Systems Integration of NASA Data into ArboNET/Plague Surveillance System	Kristie L. Ebi, R. Sari Kovats Jorae E. Pinzon, Compton J. Tucker, Kenneth L.Gaae, Russell E.Enscore	
	General Climate Science (P-GC) Sub Thoma 1: Farth Surtan Analysis & Breducte		
P.G(11	Superneme 1. curil system Analysis & Products	Sud Lawitus	
P-GC1.2 P-GC1.3	Assessing Risk of a Collapse of the Atlantic Thermohaline Circulation Fstimating the Probability of Future Climate Shifts	Michael E. Schlesinger David Fnfield	
P-GC1.4 P-GC1.5	More on Hockey Sticks: The Case of Jones et al. [1998] Assessment of U.S. Climate Variations Using the U.S. Climate Extremes	Stephen McIntyre David Karoly, Aaron Ruppert, David Easterling, Jay Lawrimore	
P-GC1.6	Index and the U.S. Greenhouse Climate Response Index Relative Sea Level Trends from Tide Stations:	Chris Zervas, Stephen Gill, Allison Stolz	
P-GC1.7 P-GC1.8	A Maturity Model for Satellite-Derived Climate Data Records The Contribution of Earth Science Remote Sensing Data	Bruce R. Barkstrom, John J. Bates Molly Macauley, Fred Vukovich	
P-GC1.9	το watural Resources Policymaking Accessing NOAA Daily Temperature and Precipitation Extremes Based on Combined/Threaded Station Records	Timothy W. Owen, Keith Eggleston, Art DeGaetano, Robert Leffler	
P-GC1.10 P-GC1.11	NOAA Climate Prediction Center Products for Decision Making Aerosol Direct Radiative Effects Over the Northwest Atlantic, Northwest Pacific, and North Indian Oceans: Estimates Based on In-Situ Chemical and Optical Measurements and Chemical Transport Medaling and Their Palation to Decision Support Information	James Laver A. Ravishankara, Timothy Bates, Theodore Anderson, Greogory Carmichael, Anthony Clarke, Caryn Erlick, Lawrence Horowitz, Patricia Quinn, Stephen Schwartz, H. Maring	
P-GC1.12	Response of a Coupled Chemistry-Climate Model to Changes in Aerosal Emissions	Jean-Francois Lamarque, Jeff Kiehl, Peter Hess, Louisa Emmons, Paul Ginoux, Chao Luo, XueXi Tie	
P-GC1.13	Aviation and the Global Atmosphere: The State of the Science and Future Research Needs	Lourdes Maurice, Curtis Holsclaw, Maryalice Locke, Ian Waitz, Stephen Lukachko, Rick Miake-Lye	

	Abstracts for Posters: Evening Session (continued)	
	Abstract Title	Authors
	General Climate Science (P-GC) Sub-Theme 2: Model Evaluation and Strategy	
P-GC2.1	Simulations of Committed Climate Change and Sea-Level Rise	William Collins, Gerald Meehl, Tom Wigley, Haiyan Teng
P-GC2.2	Model Evaluation and Projections of Climate for the Middle and	Raymond Najjar, Steve Graham, Steve Crawford, Steve Greybush
P-GC2.3	Development of Regional Probabilities	Linda Mearns, Claudia Tebaldi, David Yates, Kathleen Miller
P-GC2.4	Evaluation of Regional Climate Simulations for	L. Ruby Leung, Yun Qian, William Gustafson
P-GC2.5	The North American Regional Climate Change Assessment Program (NARCCAP): Multiple AOGCM and RCM Climate Scenario Projections for North America	William Gutowski, Linda Mearns, Raymond Arritt, Sebastien Biner, George Boer, Daniel Caya, Phil Duffy, Michel Giguere, Filippo Giorgi, Isaac Held, Richard Jones, Rene Laprise, Ruby Leung, Ana Nunes, Jeremy Pal, Yun Qian, John Raads, Lisa Slaan, Eugene Takle
P-GC2.6	Observed and Modeled Climate Variability over the United States Associated With Major Teleconnection Patterns	Katharine Hayhoe, Anne Hertel, Donald Wuebbles
P-GC2.7 P-GC2.8 P-GC2.9 P-GC2.10 P-GC2.11	Providing Climate Information Across a Continuum of Time Scales Needed: A National Policy in Regard to Climate Modeling A Closer Look at Sea Surface Temperature (SST) Trends Issues for Use of Climate Models to Inform Policymakers, Assess Impacts, and Develop Adaptive Strategies Towards Interoperability of Global Geospatial Data Sets: Discrete Global Grids	Arthur M. Greene, Lisa Goddard, Walter Baethgen David Douglass S. Fred Singer Robert Livezey Michael Freeston

