

**A Conference on Ecosystem Services – ACES
Hosted by**



Restoration Program
Assessment & Restoration Program



**Naples Grand Beach Resort
Florida, USA
8 – 11 December 2008**

Draft Attendance Report by Simone Maynard

Background

The purpose of ACES 2008 was to provide a forum for sharing information on state-of-the-art methods, tools, and processes related to ecosystem services and their effective use in decisions. The interdisciplinary nature of ACES 2008 facilitated interactive discussions and networking to create and build partnerships while sharing lessons learned from the field.

ACES 2008 brought together government, non-governmental organisations, academia, traditional owner, and private sector leaders to advance the use of ecosystem services and related science in conservation, restoration, resource management, and development decisions. The conference highlighted concepts and applications relating to four primary themes:

- Mapping and spatial relationships
- Values and measurement
- Dynamic systems and drivers of change
- Institutional structures and decision making

Rationale for Attendance:

A personal invitation and partial sponsorship was extended by Roger Sayre, Senior Scientist – US Geological Survey and Task Lead – Group on Earth Observations, to present the SEQ Ecosystem Services Framework under the session ‘Mapping Ecosystem Services’.

Sessions Attended at ACES:

A simplified agenda is presented in Appendix 1. The sessions attended are highlighted in blue. Click on the hyperlink to view PowerPoint presentations. The book of abstracts can be viewed at <http://conference.ifas.ufl.edu/aces/pdfs/Abstract%20BOOK.pdf> . See ACES

website for webcasts of specific presentations including the SEQ Ecosystem Services Project

<http://www.globalpres.com/mediasite/Catalog/pages/catalog.aspx?catalogId=6690be46-053a-4dc4-8e59-da08e26967f7> .

Contacts Made at ACES:

- Bogdan Chivoiu – Research Scientist – ASci Corporation/US Geological Survey National Wetlands Research Center.
- Taylor Ricketts – Managing Director Conservation Science – World Wildlife Fund.
- Hardin Waddle – Research Ecologist – US Department of Interior/US Geological Survey.
- Greg Walker – Professor of Communication and Adjunct Professor of Forest Resources – Oregon State University.
- Michael MacLennan – Bain and Company.
- Eric Biltonen – Environmental Economist – Houston Advanced Research Center
- John Marshall – Chairman of the Board – Arthur R. Marshall Foundation and Florida Environmental Institute.
- Kurt Gustafson – Senior Manager – Environmental Monitoring Sensor Intelligence Corp.
- Mark Judson – CEO - EIM Sensor.
- Robert Costanza – Gund Professor – University of Vermont.

Conclusions:

How the SEQ Framework is placed internationally in applying the concept of ecosystem services;

There was no consistent terminology on ecosystem services presented at the ACES. According to comments made on the SEQ Framework presentation, the clearly defined terminology and lists were considered an important element along with the participatory process adopted to develop it. Participants were impressed with the break down of ‘what is an ecosystem?’, ‘what is a function?’, ‘what is a service?’ and ‘what are the benefits we receive i.e. constituents of well-being?’. The SEQ ES Project is well advanced in understanding the concept of ecosystem services and developing a tool to apply the concept in decision making.

Lessons learnt in other countries;

The Millennium Ecosystem Assessment specifically states that an ecosystem services assessment must consider the full range of benefits received; otherwise when assessing tradeoffs among services, the assessment is not complete and decisions will be made on incomplete information. The SEQ Framework assesses 28 ecosystem services. The majority of projects presented at the WCC assessed 1 service however some projects assessed up to 5 services (including the usual suspects such as biodiversity, air quality, vegetation, water quality). Very few projects assessed cultural services.

In my opinion, similar to the World Conservation Congress in Barcelona, many projects were called ‘ecosystem service’ projects but were really biodiversity or vegetation management projects. This provides inherent dangers of watering down the ecosystem services concept with many decision makers asking ‘well what is the difference between what we have been doing already, and managing for ecosystem services?’

From the presentations viewed, it can be said that the concept of ecosystem services is predominantly being used as a way to assess the impacts of small scale developments (not strategic regional planning, policy making or natural resource management as in SEQ).

I saw no projects on identifying the link between ecosystem services and human well-being. Greg Walker (Professor of Communication and Adjunct Professor of Forest Resources, Oregon State University) expressed interest in this section of the SEQ Framework.

The majority of research projects presented were from the United States however India, Spain, Australia, Canada, China, Cambodia, UK, France, Switzerland, Africa and Portugal were also represented.

There was a strong lean towards monetary valuations of ecosystem services. During discussions people expressed that the need to conduct monetary valuations provided a hindrance to their assessments/valuations (this was also a common feeling at the WCC in Barcelona). People were asking the question 'how do you value something that is not tangible or has other intrinsic values i.e. cultural diversity or knowledge systems?' Often I had discussions of valuing ecosystem services based on scoring systems rather than monetary valuations and in general people seemed to have little knowledge of these types of methodologies. Based on this, the SEQ ES Project intrigued participants and although we all agreed there is a place for monetary valuations, overall people saw the method of scoring as a possible solution.

It was interesting to see such a broad range of modeling and mapping tools currently being developed and trialed e.g. INVEST, MIMES. I would recommend those interested in ecosystem service models and maps to access the ACES website (<http://conference.ifas.ufl.edu/ACES/>) and view the program for further information.

Opportunities to capitalise on any advantage in applying the SEQ Framework in other countries or regions;

John Marshall (Chairman of the Board, Arthur R. Marshall Foundation and Florida Environmental Institute) was particularly interested in the SEQ Framework and it's adaptability to the Florida peninsular. Tampa Bay is a case study area under the US EPA ecosystem services project and is experiencing many of the same issues as SEQ.

Most Valuable....

The perceived need to conduct monetary valuations in order to effectively communicate the concept of ecosystem services with decision makers is providing a barrier to the concept being more widely applied. The presentation on the SEQ ES Project made a valuable contribution to ACES by showing participants alternative methods to value ES (and how the concept can be applied on the local scale and in policy and planning).

The importance of the SEQ Framework to coordinating research, natural resource management, planning and decision making in SEQ was highlighted by the inconsistency of terminology on ecosystem services presented at both the WCC in Barcelona and at the ACES in Florida. I was left wondering after the ACES how all this very important and very relevant research would better inform decision makers and help us better understand the big picture. After seeing all this work, but no common frame to hang it all from (different terminology, descriptions etc), I ask where does all this information take them? How much does it contribute to understanding the big picture (i.e. ES and its contribution to the economy and human well-being and better management

of ES)? It made me feel (even more) quietly confident in the approach we have taken in SEQ - to set a common framework so we can all be talking the same language and so future research all contributes to understanding the big picture and feeds into the framework.

Thank you

I would like to thank all who supported my attendance at the ACES in Florida. Thank you in particular to Roger Sayre and the US Geological Survey, and Simon Warner and Gordon French from SEQ Catchments for providing such a unique opportunity and experience. I would also like to make a special thank you to Jim Donaldson from Land and Water Australia, Bob Douglas from Australia 21 and Rod Simpson from the University of the Sunshine Coast who without their support my attendance would not be possible. As the concept of ecosystem services has yet to fully mature in Australia and events such as these are yet to eventuate, the professional and personal experience and contacts I gained from attending this event is immeasurable.

Sessions Attended at ACES:

Sessions attended are highlighted in blue. Click on hyperlink to view powerpoint presentation. See ACES website for webcasts of specific presentations including the SEQ Ecosystem Services Project.

MONDAY, DECEMBER 8, 2008			
CONCURRENT WORKSHOPS			
Organizer: Joe Nicolette	Organizer: Stan Bronson	Organizer: Jason Walker	Organizer: James Spatarella
Evolution and Valuation of Ecosystem Services Presentations: [1] - [2] - [3] - [4] - [5] - [6]	Florida's Cooperative Conservation Blueprint: A Scientifically Based State-wide Ecosystem Services Program for Private Lands Presentations: [1] - [2] - [3] - [4]	Land Use Codes and Ecological Services: Actively Engaging the Opportunities and Constraints of Restoring Ecological Function through Responsible Site Design	Building the Ecosystem Services Approach: New Directions, Case Studies and Tools in Use within DoD and Partnering Organizations
Organizer: Gretchen Sassenrath	Organizer: Edmund Gee	Organizer: Jason Walker	Organizer: James Spatarella
Drivers of Integrated Agricultural Systems Presentations: [1] - [2] - [3] - [4] - [5]	Providing Multiple Resource Benefits and Economic Opportunities through Biomass Utilization Presentations: [1] - [2] - [3] - [4] - [5]	<i>Continued</i> Land Use Codes and Ecological Services: Actively Engaging the Opportunities and Constraints of Restoring Ecological Function through Responsible Site Design	<i>Continued</i> Building the Ecosystem Services Approach: New Directions, Case Studies and Tools in Use within DoD and Partnering Organizations
GENERAL SESSION: Public-Private Roundtable on Aligning Tools and Decision-Making in Ecosystem Services (Royal Palm IV-V)			
<p>Moderator: Ralph Stahl, Principal Consultant, DuPont Corporate Remediation Group</p> <p>Panel Members:</p> <p>Wayne Munns, Associate Director for Science, U.S. Environmental Protection Agency Greg Biddinger, Natural Land Management Program Coordinator, ExxonMobil Biomedical Sciences, Inc. Kit Armstrong, Senior Advisor to Environmental Markets Initiative, Business for Social Responsibility David Batker, Executive Director, Earth Economics</p>			

TUESDAY, DECEMBER 9, 2008
OPENING PLENARY SESSION (Royal Palm IV-V)
<p>Moderator: Carl Shapiro, ACES Conference Chair</p> <p>Featured Keynote Presentation:</p> <p>Adam Davis, Partner, Ecosystem Investment Partners; President, Solano Partners, Inc. "Incentives For Valuing Natural Systems: 'The More Good You Do, The More Money You Make'"</p> <p>Plenary Panel Discussion:</p> <p>"Why are Ecosystem Services Important and What are the Challenges in Including Them in Decisions?"</p>

Panel Moderator: Olivia Barton Ferriter, Director, Conservation, Partnerships & Management Policy, U.S. Department of the Interior

Rick A. Linthurst, National Program Director for Ecology, EPA

Mark Myers, Director, U.S. Geological Survey

Ralph G. Stahl, Jr., Principal Consultant, DuPont Corporate Remediation Group

R. Michael Wright, Managing Director, Natural Capital Project; Former Senior Vice-President, World Wildlife Fund

PLENARY SESSION (Royal Palm IV-V)

Moderator: Ione Taylor, Acting Chief Scientist for Geography, U.S. Geological Survey

Plenary Panel Discussion: [\[Presentation\]](#)

"Future Directions for Research on Ecosystem Services"

James W. Boyd, Senior Fellow, Resources for the Future

Robert Costanza, Gund Professor of Ecological Economics; Director of the Gund Institute for Ecological Economics

Taylor Ricketts, Director of Conservation Science, World Wildlife Fund

J.B. Ruhl, Mathews and Hawkins Professor of Property, Florida State University College of Law

Susan M. Wachter, Richard B. Worley Professor of Financial Management, Professor of Real Estate and Finance; Co-Director, Institute for Urban Research, The Wharton School of the University of Pennsylvania

CONCURRENT SESSIONS

Mapping Ecosystem Services	Institutions and Markets	Prairie Potholes	Conservation and Resource Management
Moderator: Roger Sayre	Moderator: Trista Patterson	Moderator: Chip Euliss	Moderator: Iris Goodman
Introduction & Overview	Introduction & Overview	Introduction & Overview	Introduction & Overview
Roger Sayre Standardized, National Ecosystems for Ecosystem Services Assessments [Presentation]	Patrick Bohlen Saving the Everglades the Cowboy Way: Paying Ranchers to Produce Environmental Services [Presentation]	Skip Hyberg Quantifying Environmental Services in a Resource-Limited World	Rebecca Goldman Field Evidence that Ecosystem Service Projects Support Biodiversity and Diversify Options [Presentation]
Anne Neale Status of the US EPA's National Atlas of Ecosystem Services [Presentation]	Steven Kraft Law and Policy of Ecosystem Services [Presentation]	S. Diane Eckles The Role of the USDA CEAP- Wetlands to Develop Integrated Landscape Modeling and Monitoring Tools to Improve Wetlands Conservation	Dixon Landers The Role of Place-Based Projects as Ecosystem Service Laboratories [Presentation]
Simone Maynard The South East Queensland Ecosystem Services Project: Turning Concept into Practical Application for Land Use Planning and Policy [Presentation]	Stephen Swallow Creating a Private Market for Ecosystem Services: Results from Selling Hayfield Services for Grassland Birds to Ex-Urban Residents in Jamestown, Rhode Island [Presentation]	Brian Tangen The Prairie Pothole Regional Assessment: Results of a Survey to Estimate Ecosystem Services Derived from USDA Conservation Reserve (CRP) and Wetlands Reserve Program (WRP) Land	Ken Lubinski Considering Ecosystem Services in Restoration Decisions on the Upper Mississippi River System [Presentation]
Ken Bagstad Contextualizing Ecosystem Services in the Present and Future Urban	Gordon Feighner Animating Market Forces for Sustainable Stormwater Management	Chip Euliss A Conceptual Basis and Framework for the Quantification of	Emily McKenzie and Bruce McKenny Screening Criteria for Assessing Opportunities

Environment: A Chittenden County, Vermont Case Study [Presentation]	and Enhanced Ecosystem Services [Presentation]	Ecosystem Services in the Prairie Pothole Region [Presentation]	for an Ecosystem Services Approach [Presentation]
Bruce Wiley Performance Anomalies are a Relative Measure of Ecosystem Services [Presentation]	Evan Williams The Use of Ecosystem Service Approaches in a European Public Policy Context [Presentation]	Shuguang Liu Integrated Monitoring and Forecast of Ecosystem Services in the Prairie Pothole Region of the United States [Presentation]	Ralf Seppelt On the Value of the Ecosystem Services Concept: An Idiosyncratic Synthesis of Regional Studies, Their Methods, Results and Promises [Presentation]
Forest Values	Tools, Indicators and Decision Support	San Pedro	Biofuels: Implications for Ecosystem Services
Moderator: Richard Bernknopf	Moderator: Tom Gunther	Moderator: David Brookshire [Presentation]	Moderator: Alisa Gallant
Elliott Campbell Environmental Accounting of Forest Ecosystem Services and the Proposed Development of an Ecological Investment Corporation [Presentation]	Anne Rea Using Ecosystem Services in the National Ambient Air Quality Standard Setting Process [Presentation]	David Goodrich Complex Ecosystem Valuation: A Study in the San Pedro and Rio Grande [Presentation]	Walt Sadinski Our Growing Need to Understand Relationships Between Human Activities, Global Change and Ecosystem Services
Francisco Escobedo Ecosystem Services and the Value of Florida's Urban Forests	Jim Henderson Ecosystem Services and the Corps of Engineers: Now that We've Looked, What Do We Do? [Presentation]	Mark Dixon Modeling Vegetation Change for Non-market Valuation of Riparian Ecosystems [Presentation]	Alisa Gallant Integrated Assessment of Climate Change and Biofuels Production on Ecosystem Services and Sustainability
Elisa Oteros-Rozas Factors Influencing Economic Value of Ecosystem Services: A Comparison Between Mediterranean Wetlands and Forests [Presentation]	Driss Ennaanay Landscape Prioritization Techniques for Water-Related Ecosystem Services [Presentation]	Darius Semmens Applying the Ecosystem Services Concept for Environmental Management in the Upper San Pedro Basin, Arizona [Presentation]	Shuguang Liu On-site Consequences of Biomass Production for Bioenergy: Spatially Explicit Monitoring, Forecast and Optimization
Robert Deal A Framework for Bundling Ecosystem Services [Presentation]	William Labiosa Ecological Valuation for Land Use Planning Decision Support in South Florida: The Ecosystem Portfolio Model [Presentation]	William Kepner Evaluating Hydrological Response to Forecasted Land-Use Change: Scenario Testing in Two Western U.S. Watersheds [Presentation]	Brent Haglund Launching a Private Landowner Conservation Initiative: Water As A Crop [Presentation]
Evan Mercer Measuring Ecosystem Services within the Context of the Montreal Process Criteria and Indicators for Forest Sustainability	Robert Wood Integrated Ecosystem Assessments: A Tool for Bridging Science and Ecosystem Management [Presentation]	Laura Lopez-Hoffman Ecosystem Services Across Borders: A Framework for Trans-boundary Conservation Policy	Alex Echols Shifting to Performance-Based, Market Driven Agricultural Conservation Strategies [Presentation]

WEDNESDAY, DECEMBER 10, 2008

PLENARY SESSION (Royal Palm IV-V)

Moderator: Brad Gentry, Co-Director of the Center for Business & the Environment, Yale University

Plenary Panel Discussion:

"Using Markets and Other Institutional Structures to Incorporate Ecosystem Services in Decision Making: Opportunities and Challenges"

David S. Brookshire, Director of Science Impact Laboratory for Policy and Economics;
Professor of Economics, University of New Mexico [\[Presentation\]](#)

Jessica Fox, Director, Project Manager, Electric Power Research Institute [\[Presentation\]](#)

Marcelle Shoop, Principal Advisor, Sustainable Development & Climate Change,
Communications & External Relations [\[Presentation\]](#)

Emily McKenzie, Lead, Policy and Finance, Natural Capital Project, World Wildlife Fund

Featured Keynote Presentation:

Lynn Scarlett, Deputy Secretary of the Interior

CONCURRENT SESSIONS

Urban	Ecosystem Service Valuation Tools and Decision Making in the Non-NRDA Context	Lower Mississippi Valley	Agriculture
Moderator: Susan Wachter	Moderator: Joe Nicolette [Presentation]	Moderator: Stephen Faulkner	Moderator: Diana Jerkins
Michael Andreu An Analysis of the Urbanizing Forests of the Tampa Bay Watershed along the Urban to Rural Continuum [Presentation]	Thomas Campbell Evolution of Ecosystem Services in Law	Stephen Faulkner Conceptual and Rapid Prototype Models for Predicting Ecosystem Services	Christopher Lant Evaluating Ecosystem Services Using the Virtual Watershed Model [Presentation]
Eugenie Birch The Northeast Megaregion- Growth and Sustainability Challenges: A Planners Viewpoint [Presentation]	Bruce Peacock Clean Water Act Compensatory Mitigation Scaling Incorporating Uncertainty [Presentation]	Tom Moorman Restoring Waterfowl Habitat and Potential Flood Storage Services on Wetland Reserve Program Lands in the Mississippi Alluvial Valley [Presentation]	Katarina Hedlund How to Value Ecosystem Goods and Services in Agriculture at Increasing Land Use Pressure [Presentation]
Stephanie Pincetl Implementing a Nature's Services Infrastructure: the Care of a Million Trees, Los Angeles	David Nicholas Demonstrating the Net Benefit of Site Cleanup: An Evaluation of Ecological and Economic Metrics at Two Superfund Sites [Presentation]	W. Aaron Jenkins Valuing Ecosystem Services from Wetlands Restoration in the Mississippi Alluvial Valley [Presentation]	Sethuram Soman Trade-offs between Agricultural Production and Ecosystem Services at a Farm Level [Presentation]

<p>John Landis USA Spatial Development Trends: What's Next</p>	<p>George van Houtven Valuing Changes in Aquatic Ecosystem Service from Reductions in Nutrient Loadings [Presentation]</p>	<p>Tijs van Maasakkers Who Decides? Combining Public Involvement and Ecosystem Services Valuation in Environmental Disputes [Presentation]</p>	<p>Cristina Marta-Pedroso Guaranteed Sustainability Label: Is it a Way of Promoting Sustainable Agriculture? [Presentation]</p>
<p>Arthur Nelson Reforming Urban Development Patterns to Facilitate Production of Ecosystem Services</p>	<p>Joe Nicolette Use of Ecosystem Services in Evaluating Biodiversity Offsets and Demonstrating Environmental Sustainability [Presentation]</p>	<p>Richard Iovanna Quantifying Environmental Services in a Resource-Limited World: The Significance of Scale and Scope</p>	<p>Alisa Gallant Estimating Landscape Suitability for Pollinators: The Importance of Landscape Configuration for Honey Bees [Presentation]</p>
CONCURRENT SESSIONS			
Economic Valuation	Landscape Dynamics	Chesapeake Bay and Mid-Atlantic	Global Change Impacts, Mitigation, and Adaptation
Moderator: Jim Caudill	Moderator: Bea Van Horne	Co-Moderators: Dianna Hogan and Peter Claggett	Moderator: Ronnie Best
<p>David Ganz Accounting for Ecosystem Service Values of Natural Capital within Areas of Influence of the California Bureau of Land Management Community Assistance and Hazardous Fuels Programs</p>	<p>Thomas Koellner Bayesian Modeling of Ecosystem Services in Human-Environment Systems [Presentation]</p>	<p>Paul Hearn The Role of Ecosystem Services in Addressing the Need for Improved Water Quality in the Chesapeake Bay</p>	<p>Marc Conte Modeling the Effects of Climate Change on Multiple Ecosystem Services [Presentation]</p>
<p>Kenneth Baerenklau Spatial Allocation of Wilderness Recreation Value [Presentation]</p>	<p>P�n�lope Lamarque Provision of Multiple Services by Mountain Grasslands is Determined by Land Use History [Presentation]</p>	<p>James Remuzzi The Spatial Lands Registry: A Tool to Facilitate Market Transactions [Presentation]</p>	<p>John Gunn Development of an Efficient and Credible Forest Carbon Credit Program for Family Forest Landowners in Maine, USA [Presentation]</p>
<p>James Boyd Ecosystem Services and Green GDP: Economically Valid Accounting Measures of Natural Wealth [Presentation]</p>	<p>Taylor Ricketts Modeling Multiple Ecosystem Services and Tradeoffs at Landscape Scales [Presentation]</p>	<p>Christine Blinn Development of an Ecosystem Services Assessment Tool for Private Landowners [Presentation]</p>	<p>Paula Harrison A Conceptual Framework to Analyze Effects of Environmental Change on Ecosystem Services [Presentation]</p>
<p>Keith Lawrence A Valuation of England's Terrestrial Ecosystem Services [Presentation]</p>	<p>Sharon Kahara Ecosystem Services Provided by Wetlands Reserve Program-Wetlands in the Central Valley of California [Presentation]</p>	<p>Christine Davis Linking Ecosystem Indicators to Ecosystem Services in the Review of the Secondary Standards for NOx and SOx [Presentation]</p>	<p>Benjamin Simon Resource Assessment: Terrestrial Carbon Sequestration [Presentation]</p>
<p>Ananthakrishnan Ramanathan Economic Valuation of</p>	<p>Jeffrey Kline Conceptual Framing for Landscaper-level</p>	<p>Doug Parker Ecosystem Service Trading Programs:</p>	<p>Rebecca Feldman Strengthening Capacity to Address Climate Impacts</p>

Improved Ecosystem Service of Kol Wetland [Presentation]	Assessment of Ecosystem Management Choices [Presentation]	Lessons from Mid-Atlantic Water Quality Markets [Presentation]	on Living Marine Resources and Coasts
Payments and Markets for Ecosystem Services	Mapping and Landscapes	Gulf of Mexico	Ecosystem Services and Native Knowledge
Moderator: Al Todd	Moderator: Jonathan Smith	Moderator: David Yoskowitz	Moderator: Susan Marcus
Craig Broadbent Markets for Ecosystem Services: Water Leasing Applications [Presentation]	Paula E. Allen The Landscape Framework for the Spatial Characterization and Mapping of Ecosystem Services: What is the State of the Science? [Presentation]	Jorge Brenner Mapping Ecosystem Services of the Coastal Environment [Presentation]	Jon Waterhouse Partnerships Restoring the Yukon River Basin [Presentation]
Mark Buckley Restoring Puget Sound with an Incremental Market-Based Approach [Presentation]	Taylor Ricketts Putting Ecosystem Services on the Map: The Natural Capital Project [Presentation]	Marc Russell Translating Policy Decisions into Ecological Service Impacts for Cost Benefit Analysis [Presentation]	Kurt Nelson Achieving a Win-Win in Restoring Ecosystem Services [Presentation]
Trista Patterson Incorporating Demand for Ecosystem Services into Payment Schemes	Joshua Goldstein Mapping Ecosystem Services for Land Use Planning: Hawaii as a Case Study [Presentation]	David Yoskowitz Valuation Issues of Ecosystem Services in the Coastal Zone [Presentation]	John DeGroot Applications of Ecosystem Services by the Nez Perce [Presentation]
Alexander Pfaff Payments for Environmental Services: Empirical Analysis for Costa Rica [Presentation]	Ignacio Palomo Mapping Ecosystem Services: Current Trends [Presentation]	Mark Judson Integration of Ecosystem Services into a Decision Support Platform	Craig Tepper Everglades Restoration
Keith Lawrence Financing Conservation through Ecosystem Services: Implementation in Asia [Presentation]	Grace Wong An Approach to Evaluating and Mapping Ecosystem Services for Conservation and Development in the Tully Catchment, Australia [Presentation]	Jace Tunnell and Sharon Hayes Integrating Ecosystem Services into Bay and Estuary Management and Planning [Presentation]	Peter David Wild Rice-Cultural and Ecological Implications [Presentation]

THURSDAY, DECEMBER 11, 2008			
CONCURRENT SESSIONS			
Valuation Approaches	Remote Sensing	Carbon Management and Sequestration: Florida's Perspective	Coastal Resources
Moderator: Ken Williams	Moderator: Molly Macauley	Moderator: Timothy Martin	Moderator: Chandra Giri

<p>Richard Cole Measuring the Ecosystem Service Value of National Natural Heritage Investments Presentations: [1] - [2]</p>	<p>Richard Bernknopf An Integrated Assessment Framework of Crop Production and its Pollution</p>	<p>Sabine Grunwald Geospatial Tracking of Black Footprints in Florida</p>	<p>Nathalie Valette-Silver NOAA Activities and Products in Support of Ecosystem Services [Presentation]</p>
<p>Mark Brown Emergy and Environmental Services: A Biophysical Approach to Evaluating the Environment [Presentation]</p>	<p>Danielle King Quantifying Links between Ecosystem Services and Poverty in Rural Mali</p>	<p>Ramesh Reddy Everglades as Carbon Reservoir: Role of Management and Restoration [Presentation]</p>	<p>Anne Guerry Ecosystem Services Provided by the Nearshore in Puget Sound: An Analysis of Change</p>
<p>Richard Anderson Influence Diagram and Adaptive Management Methods to Guide Management of Oyster Reefs with Consideration of Ecosystem Services</p>	<p>Jennifer Rover Using Remote Sensing to Estimate Ecosystem Services in the Prairie Pothole Region</p>	<p>Laila Racevskis Understanding the Costs and Benefits of Carbon Management and Sequestration [Presentation]</p>	<p>Tim O'Higgins Estuary-Wide, Habitat-Specific Estimates of Fisheries Ecosystem Services in a Pacific Northwest Estuary [Presentation]</p>
<p>Robert Winthrop Alternative Approaches to Valuation: An Anthropological View [Presentation]</p>	<p>Janis Taylor Ecosystem Services and Land Use in the Nebraska Sandhills Ecoregion</p>	<p>Lynn Sollenberger Ecosystem Services of Florida Grasslands [Presentation]</p>	<p>Chandra Giri Mangrove Forest Distributions and Dynamics (1975-2005) in the Tsunami-impacted Region of Asia</p>
<p>Jason Kreitler A Marginal Value Priority Setting Framework for Ecosystem Services [Presentation]</p>	<p>Deborah Febres Urdaneta What Can the Landscape Tell Us about Human Welfare? The Case of Piritu Lagoon in Venezuela</p>	<p>Timothy Martin Forest Management Strategies for Atmospheric CO2 Mitigation [Presentation]</p>	
PLENARY SESSION (Royal Palm IV-V)			
<p>Moderator: Mark Schaefer, Deputy Director for Environmental Conflict Resolution, Morris K. Udall Foundation</p> <p><u>Plenary Panel Discussion:</u> <i>"Synthesis: Key Findings and Next Steps"</i></p> <p>Ann M. Bartuska, Deputy Chief for Research and Development, USDA Forest Service</p> <p>Gregory R. Biddinger, Natural Land Management Program Coordinator, ExxonMobil Biomedical Sciences, Inc. [Presentation]</p> <p>Paula A. Harrison, Environmental Change Institute, Oxford University Centre for the Environment [Presentation]</p> <p>K. Bruce Jones, Chief Scientist for Biology, U.S. Geological Survey</p> <p>Molly K. Macauley, Senior Fellow, Director, Academic Programs, Resources for the Future [Presentation]</p> <p>Closing Remarks: Carl Shapiro, ACES Conference Chair</p>			