



**Save the Date!**  
**The Coastal Society's 23rd International Conference,**  
**June 3-6, 2012, Hyatt Regency, Miami, Florida.**  
Conference website  
To become a sponsor, assist in planning, or for more information, e-mail: [coastalsoc@aol.com](mailto:coastalsoc@aol.com)  
Abstracts due October 24, 2011

## Blue Carbon: The Critical Role of Coasts in Mitigating Climate Change

by Emily Pidgeon

The Verde Island Passage in the northern Philippines has some of the world's most beautiful coastline. With more than half of the world's fish species (Carpenter & Springer 2005), this region is considered the center of global marine biodiversity. The complex and unique coastal ecosystem that flourishes in the Passage includes dense mangrove forests and extensive seagrass meadows, which provide habitat for the unsurpassed diversity of fish.

But in one critical way, the shorelines of the Verde Island Passage are like coasts everywhere around the world. Coastal ecosystems are the fastest disappearing ecosystems on Earth--on average 2 % per year--a result of poorly-managed development, clearing for aquaculture and pollution. In the Verde Island Passage, 45% of the region's mangroves have been lost in the last 20 years. Losing these ecosystems means losing the coastal protection and food security that they provide, services that are the foundation of building resilience to climate change for the 7 million people that live around the Verde Island Passage and for the hundreds of millions of people globally that live within 50 miles of a coast. Further, we now know that destruction of coastal systems not only

*continued on page 4*

## NewsNotes

### Understanding the Link between Extreme Weather and Climate Change

The fact that 2010 was one of the warmest years on record as well as one of the most disastrous, begs the question: Is global warming causing more extreme weather? The short and simple answer is yes, at least for heat waves and heavy precipitation. But much of the public discussion of this relationship obscures the link behind a misplaced focus on causation of individual weather events. The questions we ask of science are critical: When we ask whether climate change "caused" a particular event, we pose a fundamentally unanswerable question. This fallacy assures that we will often fail to draw connections between individual weather events and climate change, leading us to disregard the real risks of more extreme weather due to global warming. This is part of the press release for a report recently released by the Pew Center on Global Climate Change, "Extreme Weather and Climate Change: Understanding the Link, Managing the Risk", which explains this connection, while highlighting the need to address vulnerabilities to extreme events in the United States. <http://www.pewclimate.org/publications/extreme-weather-and-climate-change>

### Alaska Withdraws from the National CZM Program

The Alaska Coastal Management Program

*continued on page 6*

## INSIDE

Message from the President.....	2
TCS23 Abstracts Due.....	3
ICZM.....	3
Chapter Updates.....	8
CMJ Articles.....	9
New TCS Board Member.....	9
Upcoming Conferences.....	10
Board of Directors.....	11



Dear TCS Members,

I hope you enjoyed your summer and are looking forward to the cooler days and nights of autumn. Summer was a very busy time for TCS! In July, TCS participated in the Coastal Zone 2011 conference in Chicago in two ways: (1) we hosted our Annual Members Meeting, and (2) TCS partnered with the CZ conference organizers and planned a café conversation that offered useful job-hunting tips to students and mid-career professionals. Thank you to those who attended the annual meeting and participated in the café conversation!

In addition, the Board of Directors held its biennial retreat in August in Charlotte, North Carolina. At the retreat, the Board developed a comprehensive two-year strategic plan and, prior to the retreat, the TCS Committees each developed two-year work plans. The strategic plan and committee work plans complement one another, and all documents will soon be available on the TCS website. I hope you will take a look to see what the TCS leadership plans to accomplish and to see how you might like to be involved! Many thanks go out to the Board and committee members for their dedication to TCS. The time and energy they have donated to TCS has strengthened our organization and given us a clear road map to shape the society's future.

I am also proud to announce that the Call for Abstracts for the TCS 23 conference was released in September. Under the leadership of conference chairs Hans Vogel song (East Carolina University), David Loomis (East Carolina University) and Jim Murley (Southeast Florida Regional Partnership) and Program Chair Julia Wyman (RWU Marine Affairs Institute), a strong assortment of five program tracks was developed to complement the TCS 23 theme, Our Coasts, Our Heritage: Ecosystem Services for the Common Good. Please visit the [TCS 23 website](#) for more information. Please consider submitting an abstract for the conference and pass along the Call for Abstracts to your colleagues. TCS 23 promises to be another exciting event, thanks to our terrific conference organizing committee!

Enjoy this issue of the TCS Bulletin. The articles in this edition are fantastic. Thank you to the authors, to the TCS Chapters for their updates (and hard work), and to Editor Ellen Gordon for her efforts to make sure each issue of the Bulletin is high quality.

Regards,

Lisa C. Schiavinato  
TCS President



Olympic National Park. Wikimedia.org

The views expressed herein are those of the authors and do not necessarily represent TCS nor its Board.



## TCS23 Abstract Submission

The Coastal Society cordially invites you to submit an abstract for a presentation, panel, or poster for its 23rd International Conference, *Our Coasts, Our Heritage: Ecosystem Services for the Common Good*. The conference will take place June 3-June 6, 2012 at the Hyatt Regency, Miami, Florida.

**250 word abstracts are due October 24, 2011**

The Coastal Society invites submissions for presentations, panels and posters that:

- Provide information, knowledge, actions and activities relevant to solving contemporary coastal problems;
- Integrate science, management, policy and decision-making; and
- Present questions, ideas or case studies that encourage dialogue and the sharing of solutions.

Preference will be given to presentations, panels and posters that complement the conference's theme of the importance of ecosystem needs and services in comprehensive ocean and coastal management and fit within one of the five conference tracks. Ideally, presentations and posters should provide case studies or offer innovative solutions in order to spark interactive discussion among conference attendees during the sessions.

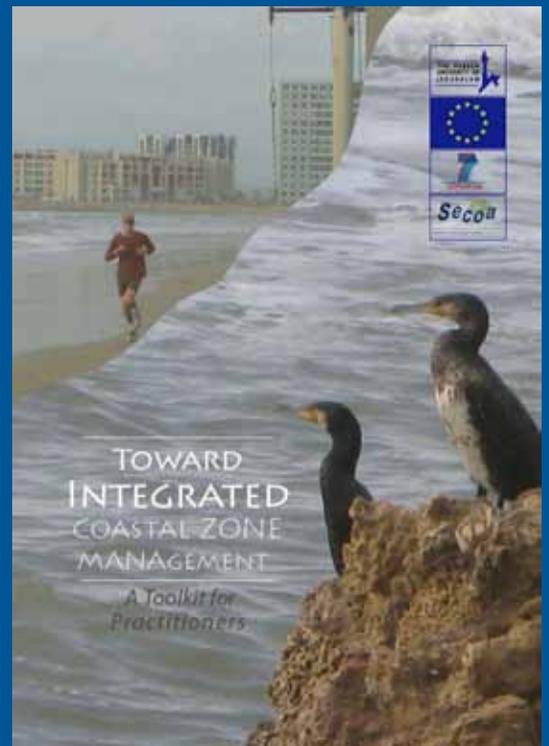
For further guidance on abstract submission, please visit the abstract submission page.

For more information about the 23rd Conference of The Coastal Society, look through the website or e-mail us at [jwyman@rwu.edu](mailto:jwyman@rwu.edu).

## TCS Member Publication on Integrated Coastal Zone Management

Co-authored by TCS member Michelle Portman, a 39 page report, *Towards Integrated Coastal Zone Management: A Toolkit for Practitioners* provides an overview of integrated coastal zone management (ICZM), focusing on the concept of integration and why it is essential for management of coastal and marine resources. The report surveys types of integration (integrated resource planning, integrated assessments, integrated maritime policy, and more), their implementation in practice and their relevance for coastal management. It has been produced by the Solutions for Environmental Contrasts in Coastal Areas project (SECOA), an EU-funded initiative that is researching the development of coastal metro-cities in eight European and Asian countries (Belgium, India, Israel, Italy, Portugal, Sweden, UK, and Vietnam). SECOA is also developing a handbook of best practices in ICZM (due to be published in early 2012) that will be based on the evaluation of mechanisms described in this Toolkit. For a copy of the report, please click here: [ICZM Toolkit](#)

For more information, please contact Michelle Portman at [mportman@cc.huji.ac.il](mailto:mportman@cc.huji.ac.il)





*continued from page 1*

erodes our capacity to cope with climate change, but is also a cause of climate change in itself.

### Coastal "Blue" Carbon

Coastal ecosystems are some of the most productive on the planet. In particular, seagrasses, tidal marshes, and mangroves naturally remove carbon dioxide from the atmosphere and ocean around them and then sequester carbon both in the plants themselves and the sediment below them. This process is continuous, resulting in large deposits of "blue" carbon, often thousands of years old, stored below coastal ecosystems. These carbon stores make these habitats among the most carbon-rich. For example, organic soils below mangroves range in depth from 0.5m to more than 3m and contain on average 1,023 mg carbon per hectare (Donato et. al. 2011), three to five times more carbon than stored in a hectare of tropical forest (Malhi et al 2009).



When these coastal ecosystems are destroyed or degraded, the carbon stored in the plants and in the sediment is released into the atmosphere and ocean around them, making the destruction of mangroves, seagrasses and salt marshes a significant source of carbon dioxide emissions and contributing to climate change. Despite accounting for less than 1% of the total tropical forest area, clearing of mangroves generates around 10% of emissions from all global deforestation (Donato et. al. 2011).

Over the last century, 1,800 square kilometers of tidal marshes in the Sacramento-San Joaquin Delta near San Francisco, California have been drained for agriculture. This has released nearly a billion tons of carbon dioxide into the atmosphere; equivalent to about one quarter of the total carbon in the trees of California's forests. And these emissions are continuing; each year, more than 5 million tons of carbon dioxide is released from this single delta, approximately 1% of California's total emissions (Crooks et al 2010). Around the world, many other large deltas have also been drained and are contributing to atmospheric greenhouse gas concentrations: the Nile, the Indus, the Mekong, to name but a few.

### Can "Blue" Carbon Save Coastal Ecosystems?

There is now global recognition that destroying land-based forests is the source of 18% of human carbon dioxide emissions and a major driver of climate change. This has strongly inspired growing action to conserve and restore vast expanses of forest. An important motivator has been the creation of financial incentives for reducing and avoiding carbon emissions. The incentives vary from international funding available to countries through the United Nations Framework Convention on Climate Change (UNFCCC) to sources of financing available to individual projects through voluntary market-based schemes such as the Verified Carbon Standard (VCS). Currently, these schemes are largely untapped for supporting conservation, sustainable use and restoration in mangroves, salt marsh and seagrasses.

A recent study by Duke University concluded that blue carbon could potentially provide sufficient economic incentives to significantly reduce existing rates of habitat loss (Murray et al, 2011). However, a number of substantial scientific and policy issues need to be addressed before the value of blue carbon can be leveraged into financing and management that specifically values the greenhouse gases sequestered by



continued from page 4

coastal ecosystems or the importance of conservation of these systems to avoid emissions. More accurate accounting of the carbon stored in these systems and the emissions resulting from their degradation is needed. The relevance of existing policy--from local to national to international--to support coastal blue carbon conservation and restoration must be assessed.

In December 2010, Conservation International (CI), International Union for Conservation of Nature (IUCN), the Intergovernmental Oceanographic Commission and partners launched the Blue Carbon Initiative, the first integrated program focused on mitigating climate change by conserving and restoring coastal marine ecosystems. The initiative brings together the growing number of organizations, governments and scientists that recognize the potential of blue carbon to develop and implement coastal management, policy and incentives. Two expert groups are currently working to develop the scientific and international policy underpinnings of blue carbon. Members of these groups are also working with the International Panel on Climate Change (IPCC), country governments in blue carbon-rich nations such as Indonesia, and the VCS to ensure coastal systems are integrated into the range of climate change mitigation actions at all of these levels.

Critically, the next step must be demonstrating the potential of blue carbon to bring about coastal conservation and effective management through real world examples. We need a network of projects covering the blue carbon ecosystem types--mangroves, seagrasses and salt marshes--that provide working examples from which we can learn how to use financial incentives to drive conservation and develop coastal management approaches for climate mitigation value.

Coastal ecosystems have been critical to human well-being for millennia. Now as we are even more dependent on them to help us face the challenges of climate change, we are clearing and degrading these critical shorelines at rapidly accelerating rates. But by valuing the critical climate mitigation value of our coasts, blue carbon has the potential to reverse this pattern and be part of the climate change solution.

## References

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*Malhi, Y. et al.* 2009. "Comprehensive Assessment of Carbon Productivity, Allocation, and Storage in Three Amazonian Forests." *Global Change Biology* 15(5): 1255-1274.

*Murray, BC, L Pendleton, WA Jenkins and S Sifleet.* 2011. "Green Payments for Blue Carbon: Economic Incentives for Protecting Threatened Coastal Habitats." Nicholas Institute Report, Duke University.

Dr. Emily Pidgeon is the Senior Director for Strategic Marine Initiatives at Conservation International. Her primary focus is integrating ocean sciences into effective marine conservation, including addressing the impacts of climate change on coastal and ocean communities and environments.



Seagrass and mangroves in Madagascar © Keith A. Ellenbogen/iLCP



continued from page 1

(ACMP), approved by NOAA in 1979, withdrew from the National Coastal Zone Management (CZM) Program on July 1, 2011. The Alaska legislature, despite last minute efforts, was unable to repeal a sunset clause within the ACMP's authorizing legislation. As a result, Alaska will lose annual federal Coastal Zone Management Act (CZMA) funds of about \$2.5 million as well as the ability to influence federal agency activities and federal license or permit activities that affect Alaska coastal uses or resources through the CZMA federal consistency provision. In Alaska, federal agencies and applicants for federal authorizations no longer have to conduct their activities in a manner that is consistent with state coastal policies. Additionally, Alaska no longer qualifies for CZMA-related grants under the Coastal and Estuarine Land Conservation Program (CELCP). However, the withdrawal of the ACMP does not affect funding for the Kachemak Bay National Estuarine Research Reserve in Homer, Alaska. The Reserve is still eligible to receive reserve-related CELCP funding. A lesser known impact to Alaska as a result of the state's withdrawal from the National CZM Program lies within the Deepwater Port Act, which requires a state to have, or be making progress toward, a federally approved CZMA management program in order to get a permit for a deepwater port in federal waters. Thus, Alaska is not currently eligible for such a permit. The CZMA is a voluntary program that places state decision making at the center of ocean and coastal management. Alaska may submit a new coastal management program to NOAA at any time, although the state must meet all CZMA, National Environmental Policy Act, and other federal legal requirements for approval. NOAA is prepared to work with Alaska in its efforts to rejoin the National CZM Program, should it choose to do so. For additional information, contact Bill O'Beirne at [bill.obeirne@noaa.gov](mailto:bill.obeirne@noaa.gov). Excerpted from Coastal Management News, Volume 6, Issue 3, July 2011. For an opinion piece on why, see <http://ju-neauempire.com/opinion/2011-07-06/my-turn-alaskans-lose-rights-without-coastal-management-program> <http://www.glc.org/announce/11/07bestpractices.html>

### Spain's Subsidy-Fed Fishing Fleet

The Spanish fishing industry has received more than \$8 billion (€5.8 billion) in subsidies since 2000 to expand its capacity and global reach. Those public funds support a fleet with an extensive record of flouting rules and breaking the law, according to a new investigation by the International Consortium of Investigative Journalists (ICUJ).

While European Union officials scramble in a last-ditch effort to save what are left of declining fish stocks, a look at the Spanish fleet shows what they are up against. "Fish are not an unlimited resource," said fisheries economist Andrew Dyck of University of British Columbia. "When the public purse is the only thing propping this industry up, we are paying for resource degradation." Subsidies keep the Spanish industry afloat. They account for a third of the sector's value. The Spanish fishing industry cornered a third of all subsidies granted to EU fisheries since 2000--far more than that of any other EU country. Public aid has been used to modernize ships, buy fishing rights to the waters of developing countries, and even pay for private security aboard vessels and for advertising and promotion. Tax breaks account for a big chunk of aid. The Spanish industry has benefited from \$2.7 billion in fuel tax exemptions since 2000. More than 80 percent of subsidized fishing companies that were fined in Spain for infractions such as fishing in a prohibited area and targeting juvenile fish--and then lost subsequent court appeal-- continued to receive subsidies. The probe into the Spanish fishing industry is the latest installment of *Looting the Seas*, an ongoing investigation. Excerpted from [www.PublicIntegrity.org](http://www.PublicIntegrity.org)

### Hawaii Offshore Fish Cage Permit Challenged

NOAA recently approved Kona Kampachi's (formerly Kona Blue) permit application for a drifting submerged cage in the Exclusive Economic Zone (EEZ) off the coast of Kona, HI, the first ever commercial fishing permit for offshore



The Aquapod 212 submersible cage used to study the feasibility of free-floating fish farms. The net pen is 27 feet in diameter and made from structural-plastic framing covered with brass-mesh netting. Credit: [www.staradvertiser.com](http://www.staradvertiser.com)

continued on page 7



continued from page 6

aquaculture. The permit was granted as a "Special Coral Reef Ecosystem Fishing Permit." In response, a complaint was filed in federal court citing issues including the failure to produce an environmental impact statement and the de facto rulemaking process used to issue the permit. <http://www.chron.com/news/article/Big-Island-fish-farm-says-experiment-going-well-2146808.php>

#### **The Great Lakes Wind Collaborative (GWLC) Guide for Sustainable Wind Energy Development**

GWLC, a public/private coalition of interests promoting wind energy development within the Great Lakes region, recently released a new online guide to advancing wind energy. *Best Practices for Sustainable Wind Energy Development in the Great Lakes Region* highlights policies and practices to ensure wind development is environmentally protective, sensitive to community concerns and maximizes economic development potential. Best practices for turbine siting, noise, environmental impacts and financial mechanisms are among the 18 "best practices" that cover all phases of developing a wind energy project, from initial planning to operations to eventual decommissioning of spent turbines. Each best practice features a case example of that practice in action in the Great Lakes region or across the country. <http://www.glc.org/announce/11/pdf/GLWC-NewsRelease-BestPractices-20110719.pdf>

#### **Restore America's Estuaries Releases Coastal Jobs Report**

On September 14th, Restore America's Estuaries released "Jobs & Dollars: Big Returns from Coastal Habitat Restoration." The report draws on national and regional studies of coastal and estuarine restoration projects to make the case for government and private investment in the nation's coasts and estuaries. Among the key findings: coastal habitat restoration typically creates between 20 and 32 jobs for every \$1 million invested; and restoration not only creates direct jobs, but also helps stimulate indirect jobs in industries that supply project materials and induced jobs in businesses that provide local goods and services to restoration workers. To learn more about the economics of estuaries, visit: <http://www.estuaries.org/economics-of-estuaries.html>.

#### **New Bipartisan Senate Oceans Caucus Launches**

On September 13, 2011, a bipartisan group of 18 US senators announced the formation of the new Senate Oceans Caucus, which seeks to "increase awareness and find common ground in responding to issues facing the oceans and coasts," the group said in a statement. The Caucus is designed to provide a platform for conversations about the country's coastal bays, estuaries and oceans. The caucus will educate members by hosting briefings and

lectures regarding the latest in ocean research and policy, from the state of coral reefs in the South to settling international disputes over Arctic resources. Sens. Lisa Murkowski, R-Alaska, and Sheldon Whitehouse, D-R.I., are co-chairs. "It's an honor to be a leader of this caucus on behalf of the only state bordering two oceans," Murkowski said in a statement. "The oceans are more than beautiful and important natural gifts. They are our farms, our factories of growth and our future. The group adopted a founding charter that lays out its principles and discussed the following issues: international and domestic fisheries policy; gaps in ocean science; and challenges to ocean and coastal resource management. "I'm honored to join my colleagues today to announce the formation of the Senate Oceans Caucus," Whitehouse said in a statement. "For coastal states like Rhode Island, our oceans are a vital part of our economy and our history, and we must take smart steps to manage and protect them as a resource for future generations. This caucus will work together on a bipartisan basis to help make that happen." Others who have joined the caucus include Sens. Mark Begich, D-R.I., Daniel Inouye, D-Hawaii; Richard Blumenthal, D-Conn.; Barbara Boxer, D-Calif.; Scott Brown, R-Mass.; Maria Cantwell, D-Wash.; Ben Cardin, D-Md.; Tom Carper, D-Del.; Chris Coons, D-Del.; Lindsey Graham, R-S.C.; John Kerry, D-Mass.; Mary Landrieu, D-La.; Patty Murray, D-Wash.; Olympia Snowe, R-Maine; and Ron Wyden, D-Ore.

#### **NMSF Announces RFP for Ernest F. Hollings Ocean Awareness Trust Fund**

The National Marine Sanctuary Foundation (NMSF) has released a Request for Proposals (RFP) for the 2011 round of its Ernest F. Hollings Ocean Awareness Trust Fund. This year, the Foundation will award up to \$125,000 in grants of between \$10,000 and \$25,000 each, to projects that help engage the public in ocean conservation and build public awareness of ocean issues, in five particular subject areas: Marine Debris, Human Interaction with Marine Mammals, Non-point source pollution and Runoff, the Ocean and Human Health, and Ocean Acidification. Projects that partner with national marine sanctuaries will receive priority. Review the full RFP and Frequently Asked Questions online at: [www.NMSFocean.org/our-grants](http://www.NMSFocean.org/our-grants). Applications must be submitted by 5pm EST on October 24th. Contact [grants@nmsfocean.org](mailto:grants@nmsfocean.org) with questions.



For some of our chapters, school was just gearing up when we went to deadline; check out the next issue of the Bulletin to see what they are up to. Meanwhile...

#### DUKE UNIVERSITY

On September 3rd, Duke's chapter of TCS hosted our 11th annual Neuse RIVERKEEPER Triathlon! We had 93 participants, over 40 volunteers and raised \$3,660 for the Neuse RIVERKEEPER Foundation. We're working on planning a Blue Drinks event with Carteret County community members and Duke Alumni, and by the time you are reading this, we will have held our first chapter meeting of the year.



Both photos - Duke University's Neuse RIVERKEEPER Triathlon.  
Credit Jessica Richardson

#### UNIVERSITY OF RHODE ISLAND

On September 8th, 4 chapter members attended a public meeting pertaining to the future of offshore wind development in Rhode Island, where we learned about possible progress on a potential wind turbine project in the waters off of Block Island, RI. Shortly after that, we held our first chapter meeting of the semester, with 14 members present to discuss upcoming speakers and events. Plans include 3 beach clean ups; attending tours of Rhode Island's land-based wind turbines to learn about renewable energy; a discussion about aquaculture technology and what hybrid salmon offer as a resource; information sessions at the Newport Harbor Walk to learn about public access and what is being done to alleviate issues of access in Newport, RI; more discussion on wind farm leasing and renewable energy in Rhode Island; a research vessel trip to experience what it is like

to be a fisheries scientist for the day; touring the Providence sewer system; and the schedule for our monthly meetings.

#### EAST CAROLINA UNIVERSITY

In July, several chapter members, who are also in the Coastal Resource Management PhD Program at ECU, attended the TCS Coastal Zone Conference in Chicago. Sarah Young presented a paper on, "Power, Governance, and Multi-stakeholder Participation." Shona Paterson, presented on, "The Role of Social Resilience in Marine Protected Area Establishment," and Michelle Covi presented, "Supporting Climate Change Adaptation Through Effective Risk Communication: Insights about Audience from Esability Evaluations."

For TCS officers and members the 2011-2012 year began with at the ECU's "Get-A-Clue" event for new and returning students where they learn about university groups and societies which they might be interested in joining. That afternoon the first officers' meeting was held, followed by our first general meeting for the year which was well attended. Liza Schiavinato, TCS President, has kindly agreed to address the chapter in November.

Also in September, TCS helped organize and support ECU's Institute for Coastal Science Policy (ICSP) BBQ picnic. This was a great social event, with lots of good food and conversation. On October 15, members of the chapter will join with many others to help with "Big Sweep" cleanup projects in Greenville, NC. Some will embark in canoes and kayaks to clean up parts of the Tar River. Others will join members of the ECU Student Subunit of the American Fisheries Society to clean up Green Mill Run, a tributary of the Tar River that runs through campus.



## Coastal Management Journal

Be Sure to Use Your Members' Link to Read the Articles in Issues 5 & 6:

### Issue 6

*Nearshore Restoration in Puget Sound: Understanding Stakeholder Values and Potential Coalitions*  
By Rachel S. Lipsky & Clare M. Ryan

*Coping with Ecological Thresholds in Coastal Areas: Results from an International Experts Survey*  
By Jari Lyytimäki & Mikael Hildén

*Criteria for Evaluating the Design of Implementation Models for Integrated Coastal Zone Management Projects*

By Susan Taljaard, Jill H. Slinger & Johannes H. Van Der Merwe

### Issue 5

*Island Villagers' Willingness to Work or Pay for Sustainability of a Marine Fishery Reserve: Case of San Miguel Island, Philippines*

By Cheryll Casiwan-Launio, Teruyuki Shinbo & Yoshinori Morooka

*SCUBA Diver Specialization and Behavior Norms at Coral Reefs*

By Laura E. Anderson & David K. Loomis

*Assessment of Vulnerability and Integrated Management of Coastal Dunes in Veracruz, Mexico*  
By Oralía Oropeza-Orozco, Irene Sommer-Cervantes, Juan Carlos-Gómez, Julio César Preciado-López,  
Mario Arturo Ortiz-Pérez & Jorge Lopez-Portillo

*Application of a Sustainable Fisheries Development Indicator System (SFDIS) for Better Management Outcomes in Taiwan Offshore and Coastal Fishery*

By Wen-Hong Liu, Kun-Lung Lin, Hao-Tang Jhan, Ta-Ly Lin, De-Lu Ding & Ching-Hsien Ho

*Integrated Environmental Modeling and Assessment of Coastal Ecosystems: Application for Aquaculture Management*

By Ana M. Nobre, Suzanne B. Bricker, João G. Ferreira, Xiaojun Yan, Martin De Wit & João P. Nunes

*Successful Transplantation of a Fragmenting Coral, *Montipora digitata*, for Reef Rehabilitation*

By Edgardo D. Gomez, Helen T. Yap, Patrick C. Cabaitan & Romeo M. Dizon

In July 2011, TCS Board member Jim O'Connell resigned his director seat. We will miss Jim and his input on the Board, but wish him the best in his future endeavors! Thank you, Jim, for your service on the Board of the Directors. When Jim resigned, it became necessary to appoint someone to serve the remainder of his term. The TCS Board is pleased to announce that Dr. Bhaksar Subramanian has been appointed as director. Bhaksar is a conservation planner with the Maryland Department of Natural Resources. Welcome aboard, Bhaksar! To learn more about his background, please visit the TCS website.



**American Shore and Beach Preservation Association's National Coastal Conference, *Expanding Coastal Horizons***

October 19-21, 2011 New Orleans, Louisiana  
<http://www.asbpa.org/>

**10th International Conference on the Mediterranean Coastal Environment - MEDCOAST 11**

October 25-29, 2011 Rhodes, Greece  
[http://www.medcoast.org.tr/MC11/Call\\_for\\_Papers\\_MEDCOAST%2011.pdf](http://www.medcoast.org.tr/MC11/Call_for_Papers_MEDCOAST%2011.pdf)

**ICE's 7th Conference on Coastal Management**

November 15-16, 2011, Belfast, United Kingdom  
<http://www.ice-coastalmanagement.com/>

**World Delta Summit: The Pulse of Deltas and the Fate of Our Civilization**

November 21-24, 2011, Jakarta, Indonesia  
[www.deltasummit.org](http://www.deltasummit.org)

**1st International Marine Conservation Think Tank**

December 2-5, 200, Auckland, New Zealand  
[www.conbio.org/Activities/Meetings/2011/program/mtt.cfm](http://www.conbio.org/Activities/Meetings/2011/program/mtt.cfm)

**State of the Gulf of Mexico Summit II**

December 4-8, 2011, Houston, TX  
[www.hartheresearchinstitute.org/state-of-the-gulf-summit/](http://www.hartheresearchinstitute.org/state-of-the-gulf-summit/)

**National Conference on Science, Policy, and the Environment**

January 18-20, 2012, Washington, DC  
<http://www.environmentandsecurity.org/>

**11th Annual New Partners for Smart Growth Conference**

February 2-4, 2012, San Diego, California  
<http://www.newpartners.org/index.html>

**Social Science for Coastal Decision Making**

February 15-16, 2012, Charleston, SC  
 Abstracts due October 24, 2011  
[www.csc.noaa.gov/socialcoastforum/](http://www.csc.noaa.gov/socialcoastforum/)

**2012 AAAS Annual Meeting**

February 17-20, 2012, Vancouver, Canada  
[www.aas.org/meetings](http://www.aas.org/meetings)

**Aquaculture America 2012**

February 28-March 2, 2012, Las Vegas, NV  
[http://www.aquaculturepro.com/event.php?event\\_id=88](http://www.aquaculturepro.com/event.php?event_id=88)

**Australasian Aquaculture 2012**

May 1-4, 2012, Melbourne, Australia  
<http://www.australian-aquacultureportal.com/austaqua/aa10.html>

**World Conference on Water, Climate and Energy**

May 13-18, 2012, Dublin, Ireland  
<http://www.iwa-wcedublin.org/>

**Global Conference on Oceans, Climate and Security**

May 21-23, 2012, Boston, Massachusetts  
<http://www.gcocs.org/>

**TCS23: The Coastal Society's 23rd International Conference. Our Coasts, Our Heritage; Ecosystem Services for the Common Good**

June 3-6, 2012, Miami, FL  
<http://www.thecoastalsociety.org/conference/tcs23/index.html>

**ECSA 50: Estuarine Coastal and Shelf Science: Today's Science for Tomorrow's Management**

June 3-7, 2012, Venice, Italy  
<http://www.estuarinecoastalconference.com/>

**Coastal Zone Canada 2012**

June 10-15, 2012, Rimouski, Quebec, Canada  
<http://www.cxca-azcc.org/html/conferences/mail.html>

**Sustainable Tourism 2012; 5th International Conference**

June 13-15, 2012, A Coruna, Spain  
[www.wessex.ac.uk/12-conferences/sustourism-2012.html](http://www.wessex.ac.uk/12-conferences/sustourism-2012.html)

**Coast to Coast 2012, Living on the Edge**

September 17-21, 2012, Brisbane, Queensland  
<http://www.coast2coast.org.au/>

**6th National Conference on Coastal and Estuarine Habitat Restoration: Restoring Ecosystems, Strengthening Communities**

October 20-24, 2012, Tampa, FL  
[www.estuaries.org/conference](http://www.estuaries.org/conference)





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