

## Pacific Risk Management `Ohana (PRiMO) ACTIVITY REPORT – July 2004

*E lauhoe mai na wa`a, pae aku i ka`aina.*  
If everyone paddles the canoe, the shore is reached.

### 2004 ROUNDTABLE OF FEDERAL HAZARD MITIGATION PARTNERS IN THE PACIFIC ISLANDS

The NOAA Pacific Services Center (PSC) convened the second Roundtable of Federal Hazard Mitigation Partners in the Pacific Islands on March 16 to 18, 2004, in Honolulu, Hawai`i. The overall objective of the 2004 meeting was to sustain and expand upon the dialogue started at the 2003 meeting. Among the actions taken at the 2004 meeting were the following:

- ◆ Creation of a “canoes/paddles” conceptual framework for interagency communication, coordination, and collaboration among federal partners and other agencies, institutions, and organizations as a means to address issues of local, national, and regional concern. This framework will serve as the basis for development of a joint regional action plan over the next 12 months.
- ◆ Activation of working groups, or *hui o hana*, in the following areas: Coastal and Ocean Observations and Processes; Data Management; Data Analysis and Decision-Support Tools; Communications Infrastructure and Information Dissemination; Post-Disaster Evaluation and Performance Indicators; Education, Outreach, and Training; and Traditional Knowledge and Practices.
- ◆ Identification of a specific set of actions (e.g., workshops, inventories, and mechanisms for sustained dialogue) to be carried out by each *hui* over the next 12 months and intended to enhance the delivery and development of risk management–related information products and services.
- ◆ Formation of a Pacific Risk Management `Ohana (PRiMO) interim coordinating council that includes two members, or steersman, from each *hui*. Over the next 12 months, the council is tasked with developing a draft joint regional action plan and coordinating council policies and procedures.
- ◆ Agreement to convene again in 2005.

The complete *Proceedings of the 2004 Roundtable of Federal Hazard Mitigation Partners in the Pacific Islands* is available. Visit the 2004 Roundtable page at the PRiMO Web site (<http://www.csc.noaa.gov/psc/FHMPPI>) for more information and to download the proceedings.

### PRiMO INTERIM COORDINATING COUNCIL (ICC)

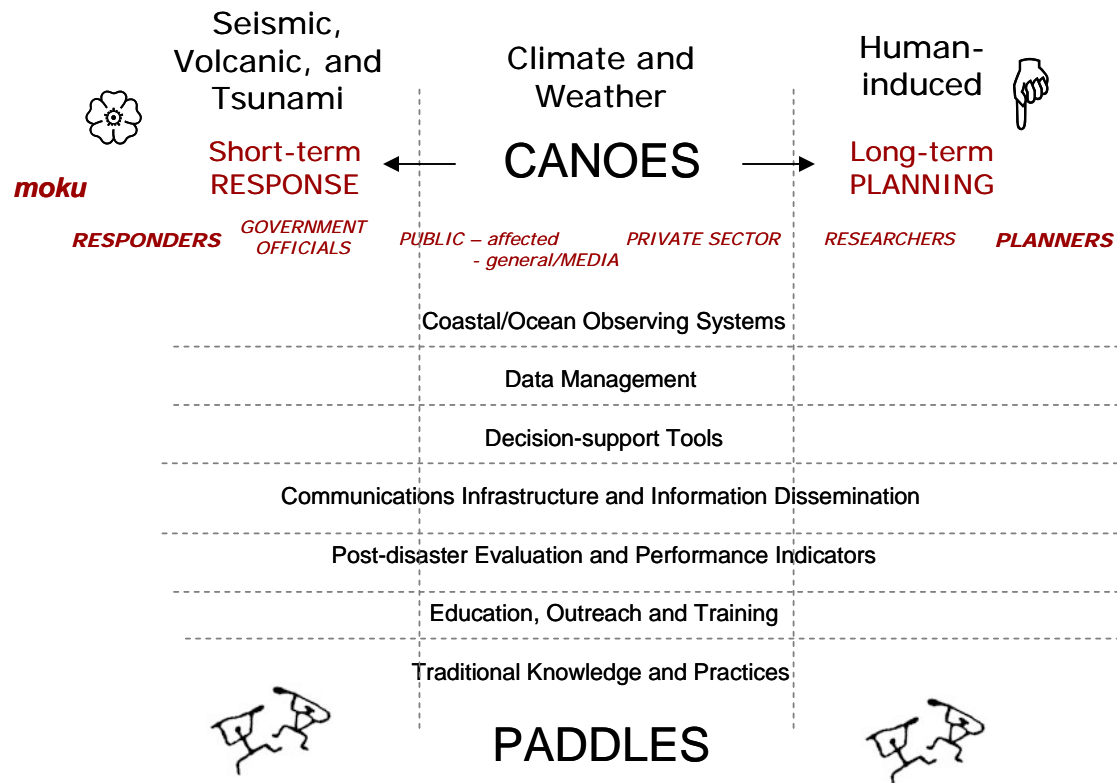
A PRiMO ICC meeting was held on June 16, 2004. Steersmen and others in attendance were Eric Wong, Adam Stein, Dolan Eversole, Ed Young, Sally Ziolkowski, David Kennard, Jim Buika, Cheryl Anderson, Jackie Burniske, Karen Rosa, Rebecca Pollock, and John Marra. Consistent with the ICC work plan (available on-line), the group of *hui* steersmen made recommendations for amendments to an initial draft of the joint regional action plan. They agreed to circulate the draft action plan to their members for initial review and comment. They also agreed to request that their members provide a brief update on the current status of priority action items identified at the 2004 meeting and compile a list of upcoming workshops, conferences, trainings, and other events

to circulate via the PRiMO e-mail list. The next PRiMO ICC meeting is tentatively scheduled for Wednesday, August 18, at 10 a.m. Hawai`i Standard Time.

### **HUI O HANA**

*Risk management* encompasses any action taken to reduce or eliminate risks to human life and to a community's economic, social, cultural, and environmental assets due to hazards. This includes hazards that are climate and weather-related, such as fire, drought, sea-level rise, and the strong winds, heavy rains, and high waves that accompany coastal storms; hazards associated with seismic or volcanic activity including tsunamis; and those that are human-induced such as oil spills and discharges of hazardous materials. Risk management-related programs, activities, information, products, and services that support decision making fall into these hazard-related theme areas or "canoes" (Figure 1).

Risk management involves more immediate actions pertaining to preparedness, response, and recovery, typically carried out by emergency managers and incident responders, as well as longer-term actions carried out by resource managers and planners. These primary users' products and services needs vary in terms of timing, as well as content and complexity, as do the needs of secondary users such as elected officials, nongovernmental organizations, researchers, and the general public. In this sense, there are a number of tools or "paddles" that represent the different types of data and information, systems and technologies, and mechanisms and measures that support inventory, analysis, and implementation needed to support the development and delivery of risk management-related information products and services. Quasi-discrete tool areas identified here, synonymous with the working groups or *hui o hana* activated at the 2004 meeting, are Coastal and Ocean Observations and Processes; Data Management; Data Analysis and Decision-Support Tools; Communications Infrastructure and Information Dissemination; Post-Disaster Evaluation and Performance Indicators; Education, Outreach, and Training; and Traditional Knowledge and Practices.



**Figure 1.** The Pacific risk management “canoes/paddles” conceptual framework for interagency communication, coordination, and collaboration.

The current status of priority action items identified at the 2004 meeting is summarized in the context of the *hui o hana* topic areas.

- ◆ [Coastal and Ocean Observations and Processes](#)
- ◆ [Data Management](#)
- ◆ [Data Analysis and Decision-Support Tools](#)
- ◆ [Communications Infrastructure and Information Dissemination](#)
- ◆ [Post-Disaster Evaluation and Performance Indicators](#)
- ◆ [Education, Outreach, and Training](#)
- ◆ [Traditional Knowledge and Practices](#)

Use these links to find more information about the *hui o hana*.

## [MEETINGS, CONFERENCES, WORKSHOPS, AND TRAINING ANNOUNCEMENTS](#)

### CONTACT US

If you have any items of interest you would like to include in the next activity report, or if you have any questions or comments, please do not hesitate to contact John Marra, coastal hazards specialist, Perot Systems Government Services (PSGS) at the NOAA Pacific Services Center, by e-mail at [John.Marra@noaa.gov](mailto:John.Marra@noaa.gov) or by phone at (808) 532-3206.

## ACTIVITIES OF THE *HUI O HANA*

### Coastal and Ocean Observations and Processes

#### **Action 1. Form a working group to inventory observing instruments and perform assessments of instrumentation and modeling capabilities.**

As co-chairs of the ocean observations *hui*, Stan Boc (U.S. Army Corps of Engineers, Engineer Research and Development Center) and James Lewis (Scientific Solutions Inc.) are currently developing an inventory of existing observing systems and capabilities based on a preliminary inventory produced by Roger Lukas and Mark Merrifield from the University of Hawai'i School of Ocean and Earth Sciences and Technology (SOEST).

#### **Action 2. Submit a proposal for a Regional Association.**

Eileen Shea (climate project coordinator for the East-West Center), Chris Chung (Hawai'i Coastal Management Program manager), and Stan Boc (U.S. Army Corps of Engineers, Engineer Research and Development Center) are taking the lead in communicating and coordinating the activities of the nascent Pacific Regional Integrated Ocean Observing System (IOOS) and Global Climate Observing System (GCOOS) programs. This includes the following:

- ◆ Planning for the establishment of a regional association ("Team Pacific") via interactions with the interagency Ocean.US Office, which has responsibility for coordinating the development of an IOOS program. Recently, Stan attended regional association meetings in Alaska, the Pacific Northwest (NANOOS), and the Southeast Atlantic (SECOORA). He reports that while more mature observing systems such as the Southeast Atlantic Coastal Observing systems (SEACOOS) do exist, the regional associations are all just getting started and are working through the issues of governance structures, member identification, data inventory, data gaps, national backbone needs, and regional needs.
- ◆ Leveraging recent opportunities to secure regional input on critical information needs and priorities, including (but not limited to) discussions of climate-related information needs and priorities as part of an early-June workshop to review the first decade of operations of the Pacific El Nino-Southern Oscillation (ENSO) Applications Center, and a late-June workshop on regional IOOS and data management priorities. The latter was held in conjunction with the All Islands Coastal Zone Management Conference in Saipan, Commonwealth of the Northern Mariana Islands (CNMI). A summary of the workshop's outcomes are available on-line.
- ◆ Articulating an initial statement of priorities for the national backbone and regional observing system components of a U.S. national contribution to IOOS as requested by Ocean.US. A draft of this statement is expected to be available for comment before the end of July.
- ◆ Submission of a Pacific regional proposal in response to a just-issued Notice of Availability for fiscal year 2005 grant funds to support projects that enhance the organization, implementation, and application of regional coastal ocean observing systems (June 30, 2004, *Federal Register* Vol. 69, No. 125). The closing date for applications is October 1, 2004.

<http://www.ofa.noaa.gov/~grants/fbo/fy05/FY05OmnibusFRN.pdf>

#### **Action 3. Hold an end-user group meeting.**

Team Pacific is planning for a series of stakeholder discussions to take place in Hawai'i and other Pacific Island jurisdictions over the coming 12 months. In the absence of targeted funding for such workshops, Team Pacific plans to leverage existing meetings and opportunities such as plans for a series of climate assessment workshops in the American Flag and U.S.-affiliated Pacific Islands, which are being supported by the NOAA Coastal Services Center. In addition, Team Pacific is exploring opportunities to secure funding for a larger regional IOOS/GCOOS stakeholder workshop, which might be held in Hawai'i.

**Other Activities:**

- ◆ The National Oceanographic Partnership has recently issued a new Broad Area Announcement (ONR BAA 04-022, [http://www.onr.navy.mil/02/baa/docs/04\\_022.pdf](http://www.onr.navy.mil/02/baa/docs/04_022.pdf)). Its focus addresses technical projects related to the following:
  - ◇ fusing multi-sensor regional-scale data to monitor and quantify coastal processes;
  - ◇ integration of private and public data sets in northern Gulf of Mexico;
  - ◇ new methods for detection of fish populations or mapping fish habitat; and
  - ◇ sensors for sustained autonomous measurement of chemical or biological parameters in the ocean (autonomous underwater vehicles (AUV)).

**Data Management****Action 1. Convene a workshop of data providers and brokers to promote information exchange, awareness, access, and use of data related to hazard/risk management.**

On July 7, members of the *hui* met to formally commence workshop planning. This group, led by Eric Wong (USGS/PDC), tentatively set November 3 to 4, 2004, at the East-West Center as the date and place for the workshop. Action items from the meeting include the following:

- ◆ Refining and prioritization of the participants list;
- ◆ Redrafting of the initial workshop agenda to create a more logical progression of topics and to more efficiently merge presentations and breakout sessions;
- ◆ Creation of a structured presentation template;
- ◆ Pre-tasking of presentations, data model development work, etc.;
- ◆ Creation of a workshop announcement; and
- ◆ Continued efforts to secure travel funding for participants who may be in need.

**Action 2. Convene a workshop of user community of risk managers to expose them to data and identify data gaps.**

Planning for this workshop will tentatively begin soon after the data providers workshop noted above.

**Other Activities:**

- ◆ The Senate Appropriations Committee, through Senate Report Number 108-144, directed NOAA, through the National Ocean Service, the National Oceanographic Data Center, and the National Climatic Data Center, to submit a report to Congress that
  - ◇ Details the region's oceanographic and environmental data requirements.
  - ◇ Identifies gaps in existing service.
  - ◇ Makes recommendations for the establishment of a Pacific Ocean and Environmental Information Center that would address such needs.

- ◇ Identifies potential coordination or partnerships with other federal facilities in the region that might enhance the effectiveness of such a center.

In response, NOAA has established a cross-line-office working group to improve the agency's long-range planning for environmental data and information management capabilities in the Pacific. On June 30, 2004, this group completed a draft report. For further information on this effort, contact Howard Diamond (program manager, NOAA International Pacific Research Center) at [Howard.Diamond@noaa.gov](mailto:Howard.Diamond@noaa.gov) or Jeff Payne (deputy director, NOAA Coastal Services Center) at [Jeff.Payne@noaa.gov](mailto:Jeff.Payne@noaa.gov).

- ◆ The GIS Mapping in Asia and the Pacific (GISMAP) 2004 conference was held June 7 to 9 at the Waikiki Beach Marriott Resort in Honolulu, Hawai'i. The theme for the conference was "Protecting and Strengthening Communities in the Pacific." More information can be found at [www.higicc.org/gismap.asp](http://www.higicc.org/gismap.asp).

## Data Analysis and Decision-Support Tools

### Action 1. Develop an inventory of existing data analysis and decision-support tools, with a focus on identification of those currently in use or that could be of use in the Pacific.

Adam Stein (PSGS at PSC), with the assistance of Dolan Eversole (University of Hawai'i Sea Grant and Hawai'i Department of Land and Natural Resources), the *hui* steersmen, have developed a template for the inventory. In late July, this inventory template will be sent to members of the *hui* and they will be asked to populate it with information about tools that their agency, organization, or company is responsible for developing and maintaining.

### Action 2. Conduct an assessment of the applicability of one or more of the tools in the Pacific Islands (i.e., their availability, data requirements, limitations, etc.)

Efforts in this area have focused on an evaluation of the applicability of the Federal Emergency Management Agency's (FEMA) new HAZUS-MH (HAZUS Multi-Hazard) model in the Pacific. A detailed report, *Summary of Issues and Comments Relating to Applications in the Pacific Region for Earthquake, Flood, and Hurricane Loss Estimation and Related Information Products*, has been compiled by the Hawai'i State Earthquake Advisory Planning Subcommittee under the guidance of Gary Chock (Martin and Chock Inc.). The June 2 draft of this document outlines near-term priorities relating to local data acquisition and analysis, verification of software features, evaluation of software performance and HAZUS99 to HAZUS-MH transition tasks. It is subject to revision based on additional input.

### Other Activities:

- ◆ The NOAA Coastal Services Center (Center), NOAA Pacific Services Center (PSC), and the American Samoa Coastal Management Program (ASCMP) are working together to create an Environmental Systems Research Institute® (ESRI®) Arc Internet Map Server (ArcIMS)-based tool for the purpose of determining multi-hazard risk for user-defined locations. The Tutuila Hazard Assessment Tool (T-HAT) and its supporting data are based on the recently completed Disaster Mitigation Act of 2000 (DMA2000) Hazard Mitigation Plan for American Samoa and on other data collected by project team members. The primary goal of this project is to support ASCMP's planning and

permitting processes on the island of Tutuila, the largest and most populated island in American Samoa. A secondary goal is to increase awareness and educate the people of Tutuila about the hazards that could potentially affect them and actions they can take to help lessen the multi-faceted impact of these events. The tool is targeted for completion in mid-August. For more information, contact William Brooks, PSGS at the NOAA Coastal Services Center at [William.Brooks@noaa.gov](mailto:William.Brooks@noaa.gov).

## **Communications Infrastructure and Information Dissemination**

### **Action 1. Develop an inventory of Communication Infrastructures.**

The inventory is under development.

### **Action 2. Complete three RANET (RAdio and InterNET) demonstration projects.**

An update of each project will be published and disseminated in August 2004.

### **Action 3. Develop an inventory of proposed/ongoing projects with communication requirements.**

The Communications/Dissemination Steering Committee, now titled RANET-Pacific Steering Committee will have a conference call in August 2004 to review the status of existing and proposed communications projects, and will publish an inventory in September 2004 time frame.

### **Action 4. Create promotional materials to engage partners.**

This will be on the agenda for the RANET-Pacific Steering Committee to discuss in August 2004 on its conference call.

### **Action 5. Conduct a National User-Needs Workshop in Fiji.**

This has not been completed, but the status of this workshop will be discussed next month.

### **Other Activities:**

- ◆ The Pacific RANET Steering Committee hosted a RANET session at the World Meteorological Organization's Region V (Southwest Pacific) Tropical Cyclone Committee meeting, held July 10 to 15 in Brisbane, Australia. This session was an outgrowth from the Communications/Dissemination meeting from the Federal Hazard Mitigation Partners in the Pacific Islands meeting. From it, the Australian Bureau of Meteorology has agreed to take on a leadership role in establishing and managing the RANET Asia broadcast.
- ◆ METEO-France, through a request from METEO-France French Polynesia, has agreed to assist the RANET-Pacific Steering Committee with communications issues in reaching the Pacific Islands.
- ◆ Colin Schulz and Ed Young, members of the RANET-Pacific Steering Committee, attended an Emergency Managers Weather Information Network (EMWIN) Users and Vendors Meeting held in late April at the National Weather Service Headquarters in Silver Spring, Maryland. Colin made a presentation on the needs of Pacific Islands for dissemination of meteorological products.

## **Post-Disaster Evaluation and Performance Indicators**

### **Action 1. Draft a white paper on Pacific Islands Hazards (including human-induced hazards) Experience Database.**

No progress has been reported on this action item.

### **Action 2. Draft a white paper on Post-Event Evaluation Tools (including human-induced) after consulting with folks in the region.**

No progress has been reported on this action item.

### **Action 3. If there is a disaster, use it as a template.**

No action has been taken to date.

### **Action 4. Make HAZUS-MH more island-appropriate.**

Efforts in this area have focused on an evaluation of the applicability of FEMA's new HAZUS-MH model in the Pacific. A detailed report, *Summary of Issues and Comments Relating to Applications in the Pacific Region for Earthquake, Flood, and Hurricane Loss Estimation and Related Information Products*, has been compiled by the Hawai'i State Earthquake Advisory Planning Subcommittee under the guidance of Gary Chock (Martin and Chock Inc.). The June 2 draft of this document outlines near-term priorities relating to local data acquisition and analysis, verification of software features, evaluation of software performance and HAZUS99 to HAZUS-MH transition tasks. It is subject to revision based on additional input.

## **Education, Outreach, and Training**

### **Action 1. Advocate creation of multiagency education and outreach board to serve as advocate for hazard mitigation education and outreach materials.**

No progress has been reported on this action item.

### **Action 2. Secure commitment to identify training for end-line users in Pacific jurisdictions as a priority within organizations' strategic plan and annual action items.**

No progress has been reported on this action item.

### **Action 3. Create an e-mail list to be used for training announcements and advertising the availability of materials.**

*Hui* co-chairs Jackie Burniske (Pacific Resources for Education and Learning, or PREL) and Karen Rosa (U.S. Fish and Wildlife Service) are working with Rebecca Pollock, the new NOAA PSC/PSGS outreach and training coordinator, to encourage circulation of training announcements via the PRiMO e-mail list and to investigate best methods for compiling event announcements for mass distribution in the future.

### **Other Activities:**



- ◆ In late June a work session on local and regional training programs was held in conjunction with the All Islands Coastal Zone Management Conference in Saipan, CNMI. This work session, led by Genevieve Brighthouse (Manager of the American Samoa Coastal Management Program), considered the region's training and technical support needs, identified existing programs, and identified potential collaborations. A work session on partnering for regional outreach efforts was also held at the All Islands Coastal Zone Management Conference.

## Traditional Knowledge and Practices

### Action 1. Develop an inventory of information-gathering activities under way and completed, including an inventory of individuals and organizations doing this work.

No progress has been reported on this action item.

### Action 2. Initiate a network of cultural practitioners.

No progress has been reported on this action item.

### Action 3. Publish Web database.

No progress has been reported on this action item.

## MEETINGS, CONFERENCES, WORKSHOPS, AND TRAINING ANNOUNCEMENTS

2004	Event	Location
9–13 Aug	ESRI International User Conference <a href="http://www.esri.com/events/uc/index.html">www.esri.com/events/uc/index.html</a>	San Diego, CA
26–29 Aug	Map Asia 2004 <a href="http://www.mapasia.org/2004/objectives.htm">www.mapasia.org/2004/objectives.htm</a>	Beijing, China
12–16 Sept	National States Geographic Information Council (NSGIC) 2004 Annual Conference <a href="http://www.amrinc.net/nsgic/secure/2004annual.cfm">www.amrinc.net/nsgic/secure/2004annual.cfm</a>	Austin, TX
12–16 Sep	American Society for Photogrammetry and Remote Sensing (ASPRS) 2004 Fall Conference <a href="http://www.geoplace.com/calendar/edetail.asp?id=2976">www.geoplace.com/calendar/edetail.asp?id=2976</a>	Kansas City, MO
16–18 Sept	GeoInformatics for Spatial-Infrastructure Development in Earth and Allied Sciences (GIS-IDEAS) 2004 <a href="http://gisws.media.osaka-cu.ac.jp/gisideas04/fcircle.pdf">http://gisws.media.osaka-cu.ac.jp/gisideas04/fcircle.pdf</a>	Hanoi, Vietnam
21–23 Sept	International Symposium and Exhibition on Geoinformation 2004 (ISG 2004) <a href="http://www.geocities.com/isg2004_conference/">www.geocities.com/isg2004_conference/</a>	Kuala Lumpur
28–30 Sept	Computer Software and Applications Conference (COMPSAC) 2004 Workshop on Geographic and Biological Data Management <a href="http://rachel.utdallas.edu/compsac/workshops/CFP-GBDM.pdf">http://rachel.utdallas.edu/compsac/workshops/CFP-GBDM.pdf</a>	Hong Kong
20–23 Oct	GIScience 2004	U of Maryland, USA

	<a href="http://www.giscience.org/">www.giscience.org/</a>	
7–10 Nov	Urban and Regional Information Systems Association (URISA) 42 <sup>nd</sup> Annual Conference <a href="http://www.urisa.org/annual.htm">www.urisa.org/annual.htm</a>	Reno, NV
8–12 Nov	Workshop on Conceptual Modeling for GIS <a href="http://www.cs.fudan.edu.cn/er2004/callfor/comogis2004.htm">www.cs.fudan.edu.cn/er2004/callfor/comogis2004.htm</a>	Shanghai, China
12–13 Nov	Association for Computing Machinery (ACM) GIS 2004 <a href="http://acmgis2004.cti.gr/">http://acmgis2004.cti.gr/</a>	Washington D.C.
12–17 Nov	American Society for Information Science and Technology (ASIS&T) Annual Meeting <a href="http://www.asis.org/Conferences/AM04/program.html">www.asis.org/Conferences/AM04/program.html</a>	Providence, RI
<b>2005</b>		
12–15 Jan	4th International Surfing Reef Symposium <a href="http://www.surfrider.org/reef4/">www.surfrider.org/reef4/</a>	Manhattan Beach, CA
7–10 Mar	Geospatial Information and Technology Association (GITA) Annual Conference 28 <a href="http://www.gita.org/events/annual/28/index.html">http://www.gita.org/events/annual/28/index.html</a>	Denver, CO
7–10 Mar	Coastal GeoTools `05 <a href="http://www.csc.noaa.gov/geotools/">http://www.csc.noaa.gov/geotools/</a>	Myrtle Beach, SC
5–8 Apr	21st International Conference on Data Engineering (ICDE 2005) <a href="http://icde2005.is.tsukuba.ac.jp/">http://icde2005.is.tsukuba.ac.jp/</a>	Tokyo, Japan
8–11 May	Solutions to Coastal Disasters 2005 <a href="http://www.asce.org/conferences/cd05/">www.asce.org/conferences/cd05/</a>	Charleston, SC
18–21 Jul	Coastal Zone 05 <a href="http://www.csc.noaa.gov/cz/">www.csc.noaa.gov/cz/</a>	New Orleans, LA