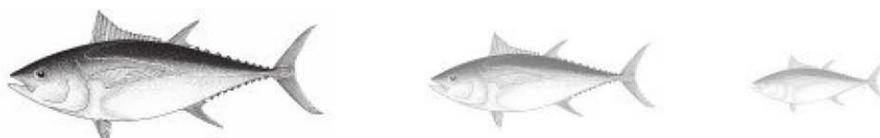


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## Editorial



We have finally reached the end of another very busy and challenging year and surely, we all deserve a good break to reflect on lessons learned and experiences gained along the way. The final weeks of the second semester went without hiccups and most of our targets for this quarter were successfully completed. However, we still have challenges within the network that needs the combined effort and commitment of all stakeholders, and we will continue to work towards improving areas of weakness and offer possible relevant solutions.

Although Christmas in the islands is usually a time to celebrate and enjoy with family and friends, it is also the best time for some of us to recharge and prepare for another year ahead. There were meetings and conferences held lately to map future directions for many organizations and sections, like the USP library's conference at the Warwick, Fiji (pp.8-9), the Pacific Islands Conference on Nature Conservation and Protected Areas that concluded with the release of turtles (p.4) and the regional training on the impacts of deep sea mining (p.5). Also included in this issue, is a report on a study about the 2011 Japan tsunami (p.3) and news on USP's Institute of Applied Science staff research award (p.6).

We pay tribute to the late Joan Koven and her donation to PIMRIS (p.13) and extend a 'vinaka vakalevu' to all PIMRIS partners, friends and colleagues who contributed in making 2013 a remarkable year for us.

The team at PIMRIS (Lower Campus Library) wishes you all a very Merry Christmas & a safe and successful 2014!

Susana Macanawai, *PIMRIS Coordinator*

### Contents

New faces, New places	2
Study on the 2011 Japan tsunami	3
Turtles released & Deep sea mining training	4-5
IAS researchers win USP publication award	6
Digital Asset Management Training	7
USP Library Conference 2013	8
News from around the region	10
New Additions to Lower Campus Library	14
Conferences & Workshops	16



Aitutaki, Cook Islands. (Photo credit: budbog.com)

## Directory

PIMRIS is a cooperative network of fisheries and marine resources libraries and information centres in the Pacific. Participants include national ministerial libraries and regional agencies listed below.

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## New Faces, New Places

### Tofa & Fa'afetai Lava Angela

Angela Jowitt, the senior librarian at Alafua Campus library is returning to New Zealand in January 2014, after five and half years.



Angela Jowitt

During her tenure in Samoa, Angela improved library services at Alafua

campus library and the USP centre library in Savaii. She redesigned the layout of Alafua library and turned it into an attractive and welcoming environment. Angela was also an active member of the Samoa Library Association. We wish Angela all the best for the future.

### Farewell Patricia!



Patricia Fratangelo

The USP main library in Suva farewelled Patricia Fratangelo, the Oceania Sports Information Centre (OSIC) coordinator in October after two years of remarkable service and achievements. Some notable achievements

during her two year term have been the re-organization of the collection, new OSIC logo and the updating of its webpage. We will miss Patricia's constructive ideas, hard work and bright personality. All the best!

### All the best Sala!



Sala Duituturaga

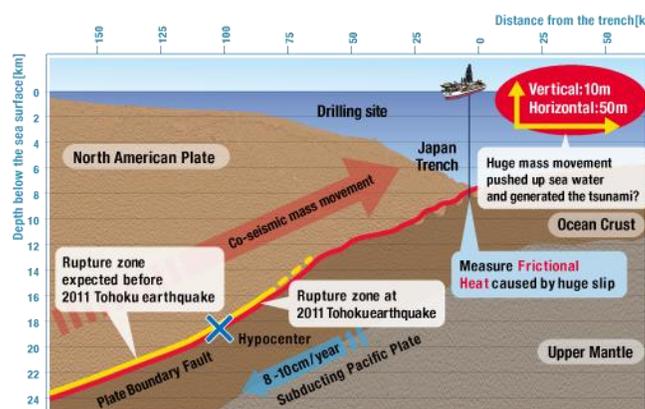
Salanieta Duituturaga, the Lower Campus Library (PIMRIS) part-time staff, has completed her term with PIMRIS and returns to the main library as per USP library's staff annual rotation programme. She was a wonderful and pleasant member of the team. Vinaka Sala!

## Deep-sea study reveals cause of 2011 tsunami

The devastating tsunami that struck Japan's Tohoku region in March 2011 was touched off by a submarine earthquake far more massive than anything geologists had expected in that zone.

A team of scientists, including McGill University geologist Christie Rowe, has published a set of studies in the journal *Science* that shed light on what caused the dramatic displacement of the seafloor off the northeastern coast of Japan. The findings also suggest that other zones in the northwest Pacific may be at risk of similar huge earthquakes.

Prof. Rowe, of McGill's Department of Earth & Planetary Sciences, was one of 27 scientists from 10 countries who participated in a 50-day expedition in 2012 on the Japanese drilling vessel Chikyu. The team drilled three holes in the Japan Trench area to study the rupture zone of the 2011 earthquake, a fault in the ocean floor where two of the Earth's major tectonic plates meet, deep beneath the surface of the Pacific Ocean.



The joint where the Pacific and North American plates meet forms what is known as a "subduction" zone, with the North American plate riding over the edge of the Pacific plate. The latter plate bends and plunges deep into the earth, forming the Japan Trench.

The conventional view among geologists has been that deep beneath the seafloor, where rocks are strong, movements of the plates can generate a lot of elastic rebound. Closer to the surface of the seafloor, where rocks are softer and less compressed, this rebound effect was thought to taper off.

An international team of scientists has concluded that an unusually thin and slippery geological fault where the North American plate rides over the edge of the Pacific plate caused a massive displacement of the seafloor off the coast of Japan in March 2011. (JAMSTEC/IODP)

Until 2011, the largest displacement of plates ever recorded along a fault occurred in 1960 off the coast of Chile, where a powerful earthquake displaced the seafloor plates by an average of 20 metres. In the Tohoku earthquake, the slip amounted to 30 to 50 metres – and the slip actually grew bigger as the subterranean rupture approached the seafloor. This runaway rupture thrust up the seafloor, touching off the horrifying tsunami.

The results of last year's drilling by the Chikyu expedition, outlined in the *Science* papers published Dec. 6, reveal several factors that help account for this unexpectedly violent slip between the two tectonic plates.

For one thing, the fault, itself, is very thin – less than five metres thick in the area sampled. "To our knowledge, it's the thinnest plate boundary on Earth," Rowe says. By contrast, California's San Andreas fault is several kilometers thick in places.

To conduct the studies, the scientists used specially designed deep-water drilling equipment that enabled them to drill more than 800 metres beneath the sea floor, in an area where the water is around 6,900 metres deep. No hole had ever before been drilled that deep in an area of similar water depth. At those extraordinary depths, it took six hours from the time the drill pulled core samples from the fault until it reached the ship.

More information on: <http://www.claimsjournal.com/news/international/2013/12/09/241064.htm>

## Tagged turtles released to mark end of the 9<sup>th</sup> Pacific Islands Conference on Nature Conservation and Protected Areas



Turtles being released at the USP Lower Campus foreshore to end the 9<sup>th</sup> Pacific Islands Conference on Nature Conservation and Protected Areas in Suva, Fiji. (Photo credit: SPREP)

The Pacific Islands Conference on Nature Conservation and Protected Areas, held in Suva, Fiji from 6-9<sup>th</sup> December 2013, ended with the release of five turtles on Saturday 7<sup>th</sup> December, at the University of the South Pacific Lower Campus foreshore.

The Director-General of the Secretariat of the Pacific Regional Environment Programme (SPREP), Mr David Sheppard was at the forefront of the event, leading a group of marine turtle conservationists.

He stated that, “the release of these turtles is symbolic of our hopes that the key messages and spirit of the 9<sup>th</sup> Pacific Islands Conference on Nature Conservation and Protected Areas, will, like turtles, travel far and traverse boundaries and be a point of focus for gathering multiple partner support for their implementation.”

Two of the five turtles released were mounted with satellite tags and christened Bulou ni Laucala and Adi Laumei Madiba. In addition to recognizing the Laucala location of the conference, the names paid tribute to the late Mauigoa Lui Bell, a former staff of SPREP who spent most of his career promoting the conservation and protection of marine turtles in the Pacific Islands, and Nelson Mandela, who passed away during conference week.

The two satellite tags mounted on Bulou ni Laucala and Adi Laumei Madiba were kindly provided by Mr George Balazs of the National Oceanic and Atmospheric Administration (NOAA), to assist SPREP with further research on turtle migration and conservation.

During this occasion, those in attendance also paid tribute to another Pacific Island marine turtle conservationist who passed away in late November, Mr George Petro. Petro, who was a turtle conservation officer with Wan Smolbag, won the International Sea Turtle Society (ISTS) Champion Award in 2012, in recognition of his tireless efforts and more than fifteen years of turtle conservation awareness and achievements in Vanuatu.

Adapted from SPREP online news.

## Regional training on environmental impacts of deep sea mining in the Pacific Islands held in Fiji

The Secretariat of the Pacific Community's (SPC) Applied Geoscience and Technology Division (SOPAC) and the Secretariat of the Pacific Regional Environment Programme (SPREP), recently co-hosted a workshop and training on the impacts of deep sea mineral mining to the environment, at the Tanoa International Hotel in Nadi from 9 - 13<sup>th</sup> December 2013.

This workshop is part of the SPC-EU's Pacific Deep Sea Minerals Project, to promote public awareness and build capacity in areas related to the development and management of deep sea mineral resources.

Consultation with stakeholders to address issues and concerns on the



A Nautilus exploration vessel heading to the Solwara 1 Deep Sea Mining site where mining activities could begin as early as 2017. (Source: SPREP)

potential impacts of deep sea mining activities in the Pacific Islands region are ongoing. This meeting was planned to identify and assess national and regional environmental management needs and to develop a process for strengthened environmental impact assessments and strategic planning before any mining activities takes place.

Invitation for this meeting was extended to fifteen (15) Pacific ACP states and representatives from civil societies.

Mr David Sheppard, the Director-General of SPREP, says that there is a critical need for more baseline environmental data to be collected to enable Pacific countries to ensure informed decision making and strengthen the responsible management of their deep sea mineral resources.

He stated that SPREP as the environmental agency in the region is committed to partnering with SPC and SOPAC to try and bring more environmental information to the table but the companies need to allocate money for independent scientific studies of the biodiversity and the environment in the deep sea.

According to the SOPAC director, Professor Mike Petterson, while it is true that we face a lot of 'unknowns' there are also many 'knowns', and the Nadi workshop will help reveal some details about the deep sea environment from some of the world's leading experts. He further stated that this workshop will also help to address poor public awareness about deep sea minerals and the possible impacts of mining.

Adapted from the SPREP and SOPAC online news.

<http://www.sopac.org/index.php/media-releases/1-latest-news/544-regional-agencies-work-to-strengthen-environmental-management-of-pacifics-deep-sea-mineral-resources>

<http://www.sprep.org/biodiversity-ecosystems-management/regional-agencies-work-to-strengthen-environmental-management-of-pacifics-deep-sea-mineral-resources>

## Institute of Applied Science researchers win the University of the South Pacific's 2012 Best Research Publication



The University of the South Pacific's award winners at its annual Research Excellence Awards night. (Credit: USP)

A team of researchers from the Institute of Applied Science (IAS) based at USP's lower campus was awarded the '2012 Vice-Chancellor's Prize for Best Research Publication' during an evening celebrating USP research and outstanding publication, in November.

The authors of the outstanding publication titled 'Investigations of the marine flora and fauna of the Fiji Islands' were Klaus-Dieter Feussner, Kavita Ragini, Rohitesh Kumar, Katy M. Soapi, William G. Aalbersberg, Mary Kay Harper, Brad Carte and Chris M. Ireland. Their work has led to the reclassification of taxonomy of some important marine organisms and will aid to assisting international researchers in the field of drug discovery from marine organisms. The article was published in 2012, in the prestigious *Natural Product Reports* journal, a critical review journal with a high impact factor of 10.178.

The summary and details of this article are as follows:

Nat. Prod. Rep. 2012 Dec; 29(12):1424-62. doi: 10.1039/c2np20055d. Epub 2012 Sep 14.

**Investigations of the marine flora and fauna of the Fiji Islands** by Klaus-Dieter Feussner, Kavita Ragini, Rohitesh Kumar, Katy M. Soapi, William G. Aalbersberg, Mary Kay Harper, Brad Carte and Chris M. Ireland.

**Source** (Centre for Drug Discovery and Conservation, Institute of Applied Sciences, The University of the South Pacific, Suva, Fiji.)

### Abstract

Over the past 30 years, approximately 140 papers have been published on marine natural products chemistry and related research from the Fiji Islands. These came about from studies starting in the early 1980s by the research groups of Crews at the University of California Santa Cruz, Ireland at the University of Utah, Gerwick from the Scripps Institution of Oceanography, the University of California at San Diego and the more recent groups of Hay at the Georgia Institute of Technology (GIT) and Jaspars from the University of Aberdeen. This review covers both known and novel marine-derived natural products and their biological activities. The marine organisms reviewed include invertebrates, plants and microorganisms, highlighting the vast structural diversity of compounds isolated from these organisms. Increasingly during this period, natural products chemists at the University of the South Pacific have been partners in this research, leading in 2006 to the development of a Centre for Drug Discovery and Conservation (CDDC).

Link to the article summary and details: <http://www.ncbi.nlm.nih.gov/pubmed/22976787>

Adapted from USP news. (<http://www.usp.ac.fj/news/story.php?id=1400>)

## **PIMRIS coordinator attends Ocean Teacher Academy training on 'Digital Asset Management' in Mombasa, Kenya**



PIMRIS coordinator with some participants during the 'Digital Asset Management' training in Kenya.

The PIMRIS coordinator recently attended the Ocean Teacher Academy's 'Digital Asset Management' training in Mombasa, Kenya for a week.

This training was organised by the UNESCO/IOC Project Office for IODE & IOC Sub Commission for Africa and the adjacent Island states, and was held at the Kenya Marine and Fisheries Research Institute (KMFRI) in Mombasa from 30<sup>th</sup> September – 4<sup>th</sup> October 2013.

The PIMRIS coordinator's participation at the workshop was funded by the Intergovernmental Oceanographic Commission through the kind support of the Government of Flanders (Kingdom of Belgium).

Thirteen participants attended this training under the guidance of two lecturers (one on-site and another from a distance). Mr Anthony Smith from Alexandria, Virginia taught via webex and endured the time difference to share his expertise and knowledge with students.

Ms Linda Pikula was on site to guide and share her knowledge on collection development policies and the importance of having plans to guide the management of digital assets.

Participants at the workshop took part in group discussions and practical exercises including the planning and writing of a digital asset collection policy and a Digital Asset Management Implementation Plan.

The PIMRIS coordinator is grateful of her participation at this workshop. It was a wonderful and huge learning experience having to communicate and share views, knowledge and experiences with a diverse group of students from various African countries, Argentina, Cuba and St Lucia.

The similarities in efforts towards providing and improving access to marine information and data provided a great opportunity not only to learn from the expertise of course lecturers, but also from each other, despite many challenges.

'Asante' to the local organizers from the Kenya Marine and Fisheries Research Institute (KMFRI) and the IODE staff for all arrangements which made the training possible.

## University of the South Pacific Library Conference

Warwick Resort & Spa, Coral Coast – Sigatoka, Fiji

29-30 November 2013



The USP Laucala Library staff at the Warwick Resort & Spa, Sigatoka, Fiji. (Photo credit: USP Library)

The University of the South Pacific Laucala library full-time staff (main and lower campus libraries), as well as senior library staff from the Solomon Islands and Emalus campus libraries, gathered at the Warwick Resort & Spa in Sigatoka, Fiji for a day and half of discussions and planning. The purpose of the conference was to revise the USP Library's Strategic Plan (2014-2018) and discuss sectional action plans for next year. This was the first ever USP library planning activity that involved all levels of library staff in one place.

On the first day of the conference, staff was divided into groups comprising of members from all levels to discuss the Library Strategic Plan and present views and suggestions according to each allocated library strategic area.

The six strategic areas for the library were: customer and information services, information resources, collection development, ICT & equitable access, physical and work environment, partnerships, and quality assurance. The first half of the second day was spent discussing, modifying and presenting sectional action plans for 2014.

Although this conference was a new experience for most of the Intermediate & Junior (I&J) and Part-time and Hourly Paid (PHP) staff, this opportunity enabled everyone to share openly and learn more about their roles and their link to the library's overall objectives.



Lara Phillips (Librarian, Laucala Campus) and Julie Reynolds (Law Librarian, Emalus Campus). (Photo credit: USP Library)



Joan Yee (University Librarian) and Libby Fong (Deputy University Librarian). (Photo credit: USP Library)



Merewalesi Torolevu and Alanieta Valuvou  
(Photo credit: USP Library)



Maina Vakaciwa (in white) and her group during group discussions. (Photo credit: USP Library)



Gwen Mar (in pink) with her team during group discussions. (Photo credit: USP Library)



Julie Reynolds (in green) and her group during group discussions. (Photo credit: USP Library)



Staff during the conference. (Photo credit: USP Library)



Library staff enjoying lunch.(Photo credit: USP Library)

The conference was a huge success, great opportunity and a rewarding experience for all members as most learned more about the different sections of the library and their activities, the plan and goals for the next five years and expectations from each member of the library team, in terms of responsibilities and duties.

The library conference was made possible by an incentive award (funds) received by the library from the USP Senior Management Team, for meeting its 2012 objectives.

The trip was organized by Libby Fong (Deputy University Librarian) and her administration team, who were acknowledged for making it a wonderful experience for everyone.

## News from around the Region

### **Palau takes fisheries surveillance to new heights**

#### **Aerial unmanned vehicles to monitor EEZ**

Although most islands in the Pacific have Australian-provided patrol boats, aerial surveillance is the key to effective fisheries enforcement.

One or even two patrol boats in a vast exclusive economic zone—such as Kiribati or the Federated States of Micronesia—are only marginally useful for fisheries enforcement without airplanes spotting potential illegal fishing activity. But most island countries can't afford the cost of aerial surveillance, so it only happens a couple of times a year during joint operations involving the Pacific Islands Forum Fisheries Agency, member islands nations and the United States, Australia and New Zealand navy and air force planes, which direct patrol vessels for vessel boardings.

A monitoring, control and surveillance technical meeting of the Western and Central Pacific Fisheries Commission held in Pohnpei in October discussed the fact that earlier this year, aerial surveillance discovered 19 Taiwan long-liners violating WCPFC rules by not reporting their positions in waters near the Marshall Islands.

"If there were 19 vessels, regardless of flag, out there not doing the right thing," says Marshall Islands fisheries Director Glen Joseph, "imagine what is happening with 3,000 long-liners and 300 purse seiners in the region."

In mid-October, the Albacora Uno, a Spanish purse seiner, was fined US\$1 million for illegally fishing in Nauru waters. Fishing companies know there is minimal enforcement capability in the islands so the odds of being caught may be worth breaking the rules. A two-prong move by the Parties to the Nauru Agreement (PNA) member Palau could be a game changer for fisheries enforcement. Palau is set to close its entire EEZ to commercial fishing and begin the regular use of unmanned aerial vehicles—drones—to enforce the closure.

On September 30, Australia-based Aerosonde Pty. Ltd officials conducted a demonstration flight of an unmanned aerial vehicle (UAV) over Koror, Palau's capital. "Our tuna fishery continues to dwindle," said Palau President Tommy Remengesau, Jr. at the UAV demonstration. Remengesau announced this plan soon after taking office in January for an unprecedented third term as president.

"If we are to preserve this magnificent resource for our children, leaders throughout the Pacific should begin to realistically assess our tuna stocks, reasonably limit fishing activities and seriously ramp up our tuna stock assessments as well as our surveillance and enforcement capacities."

He says UAVs have "very significant potential to expand the breadth of our surveillance capacity, to greatly increase the efficiency of this surveillance activity, and most importantly to decrease the cost."

Australian billionaire Andrew Forrest is financing the initial drone effort. He visited Palau in January and has involved his Minderoo Foundation to work on the issue.

More on: <http://www.islandsbusiness.com/2013/11/technology/palau-takes-fisheries-surveillance-to-new-heights/>

## Project to enhance coastal protection and sustainable land



Mangroves growing along the Kiribati coast. (Photo credit: SPREP)

By Carolyn Kitione, journalism student from USP.

A high risk community in Kiribati has started the replanting of mangroves among other land management activities in its efforts to reduce vulnerability to climate variability.

Kiribati national focal point for the Global Environment Facility's Small Grants Programme (SGP) Komeri Onorio said the Rurete community was at high risk of coastal erosion and seawater inundation of land properties.

"Indications are that changes in climate change and variability are continuing and increasing, severely impacting the Rurete communities who are at their most vulnerable status right now," said Mr Onorio during a panel discussion at the 9th Pacific Islands Conference on Nature Conservation and Protected Areas.

Activities carried out include replanting of mangroves, efficient waste management disposal, and increasing ecosystem resilience by promoting sustainable land management.

"GEF SGP CBA (community-based adaptation) projects can transform lives and lead to adaptive measures, sustainable solutions, improved environmental practices and more secure food, water and livelihood options," he said.

A two-year community-based adaptation project began last year which saw the need to strengthen capacity of community to respond to the climate variability and change. The project, which received US\$45,000 from the SGP, has helped the 500 people living in the Rurete community.

The SGP CBA project is a collaborative work between GEF, UNDP, AusAid and United Nations Volunteers (UNV). The SGP provides financial and technical support to projects in 126 countries that conserve and restore the environment while enhancing people's well-being and livelihoods.

The main objective of the Rurete project is to enhance the community's capacity to cope with the increasing natural threats such as drought and adapt to climate change. Mr. Onorio said that the Rurete Project was the first Small Islands Developing States (SIDS) CBA in Kiribati and has the potential for replication in 164 outer-island villages in Kiribati.

"The Office of the President in Kiribati is now developing a National Framework for climate change, so there is potential for collaborative work in this area particularly, in developing a national vulnerability risk assessment training module to be used throughout Kiribati."

*Carolyn Kitione is a member of the Media Team providing coverage of the 9th Pacific Islands Conference on Nature Conservation and Protected Areas from 2 to 6 December in Suva, Fiji. This is a partnership between the Fiji National University (FNU), University of the South Pacific (USP), SPREP and Pacific Islands News Association (PINA) whereby a team of 10 journalism students are mentored by senior reporters as they cover the conference. This activity is funded by the Pacific Assistance Media Scheme (PACMAS).*

Reprinted from: <http://www.sprep.org/biodiversity-ecosystems-management/project-to-enhance-coastal-protection-and-sustainable-land-management>

## Fiji Non-Government Organization and local firm promote transparent fishing operations

A non-government organization and a fishing company in Fiji in the South Pacific join efforts to carry out a new pilot project on satellite technology intended to encourage legal and transparent fishing operations.

This project -- developed by [World Wide Fund](#) (WWF) in cooperation with tuna fishing and processing company Sea Quest – consists in installing Automatic Identification System (AIS) transmitters on the firm's tuna fishing vessels to demonstrate full transparency of its fishing operations.

This firm has had six AIS transmitters activated the whole day on the long-line albacore tuna fishing vessels since June this year, sending signals to the WWF database for the NGO to retrace the routes and activities of these vessels in order to ensure that boundaries of sensitive areas and no-take zones are respected.

"Our cooperation shows that this MSC-certified tuna fishery is willing to make their fishing operations fully transparent," stated Alfred Schumm, WWF's Smart Fishing Initiative Leader. "I hope that the Sea Quest project will become a global example of how to make fishing transparent, and that it will trigger other companies to join us aboard."

Brett Haywood, owner of 200-employee firm Sea Quest, considers that the installation of this type of technology makes it possible for them to ensure safety and transparency of compliance with fishing areas are being addressed.

"Other issues like illegal fishing, barcoding of fish, electronic monitoring of fisheries as well as satellite monitoring need to be part of a larger framework to be addressed through regulatory measures, the executive pointed out.



Fishing boats at the Suva wharf. (Photo credit: J. Seeto)

Haywood thinks the Maritime Safety Authority of Fiji may consider the implementation of AIS compulsory use on all Fiji flagged vessels so as to increase vessel safety at sea.

Sea Quest's fishing vessels perform fishing activities using a selective, sustainable long line method and all fisheries in the Economic Exclusive fishing Zones (EEZ) of the waters of the country comply with [Marine Stewardship Certification](#) (MSC) standards. The company exports tuna mainly to the US and Japan and newly upcoming markets such as the EU, New Zealand and Australia.

Reprinted from: [www.fis.com](http://www.fis.com)

# Tribute to Joan F. Koven

## 1937-2012



“Joan F. Koven”  
(Photo credit: J. Seeto)

### G. Robin South

Adjunct Professor, USP, School of Marine Studies

I first met Joan Koven in Washington DC in 1989, when she celebrated the establishment of her foundation, Astrolabe, Inc. The primary reason for establishing Astrolabe was to support USP’s Marine Studies Programme, and in particular the Dravuni Island field station. The establishment of the MSP was subsequently approved by the USP Council at their meeting in Kiribati in 1990.

Joan visited Dravuni and USP almost annually, and was often accompanied by scientists from the Smithsonian Institution, especially Drs Mark and Diane Littler, marine plant biologists who made extensive collections of the marine flora. The results of this work were incorporated in their *South Pacific Reef Plants*, first published in 2003.

Recently, Joan donated her specimens of marine molluscs (mostly from the Astrolabe Lagoon) to the Marine Collection Facility at the School of Marine Studies. These large and priceless collections were accompanied by quality storage cabinets.

Through the Marpat Foundation in Washington DC (for which Joan worked for many years) a donation of USD50,000 was given to assist in renovations to the Dravuni Island Field Station.

Joan’s posthumous donation of some of her book collection to PIMRIS represents a significant contribution to the work of students and staff of the Marine Studies Programme, as well as visitors to the University. It and Joan’s other acts of generosity to the University represent a fitting legacy by which she will be fondly remembered.



In October this year, the Pacific Islands Marine Resources Information System (PIMRIS) and the lower campus library received donated books from Astrolabe Inc. and the late Joan F. Koven.

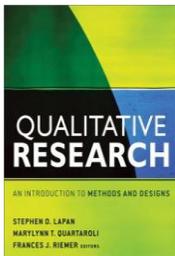
PIMRIS is grateful for this invaluable donation which will be very useful to all our patrons at the university and also our partners and customers from around the Pacific Islands region.

We acknowledge the contributions and assistance provided by Joan’s colleagues and friends (especially Nick Poulton and Susan Leonard) in ensuring these books reach PIMRIS, as initially negotiated with Joan before her passing. Vinaka vakalevu!



Display of books donated by the late Joan F. Koven and Astrolabe Inc. at the PIMRIS (Lower Campus) library. (Photo credit: J. Seeto)

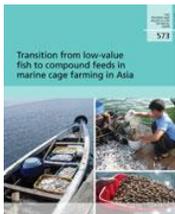
## New Additions to PIMRIS Library



**Qualitative research : an introduction to methods and designs** edited by S. D. Lapan, M. T. Quartaroli, F. J. Riemer. 1<sup>st</sup> ed. San Francisco : Jossey-Bass., c2012. ISBN: 9780470548004.

This book provides an up-to-date guide to qualitative study design, data collection, analysis, and reporting. A range of methodologies and methods for conducting qualitative research focusing on how they are applied when conducting an actual study is also discussed.

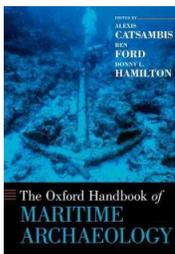
More details: <http://au.wiley.com/WileyCDA/WileyTitle/productCd-0470548002.html>



**Transition from low value fish to compound feeds in marine cage farming in Asia** by M. R. Hasan. FAO Fisheries and Aquaculture Technical Paper No. 573. Rome : FAO,c2012. ISBN: 9789251072615.

This technical paper presents the findings of the FAO Regional Technical Cooperation Project 'Reducing the dependence on the utilization of trash fish/low-value fish as feed for aquaculture of marine finfish in the Asian Region,' which was implemented between 1 August 2008 and 31 July 2011 in China, Indonesia, Thailand and Viet Nam.

More details and pdf of the entire paper: <http://www.fao.org/docrep/016/i2775e/i2775e00.htm>



**The Oxford handbook of maritime archaeology** edited by A. Catsambis, B. Ford & D. L. Hamilton. New York : Oxford University Press, c2011. ISBN: 9780195375176.

This publication draws on many of the distinct and universal aspects of maritime archaeology, bringing them together under four main themes: the research process, ships and shipwrecks, maritime and nautical culture, and issues of preservation and management.

More details:

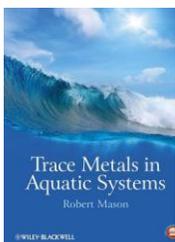
<http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780195375176.001.0001/oxfordhb-9780195375176>



**Writing scientific research articles : strategy and steps** by M. Cargill and P. O'Connor. 2<sup>nd</sup> ed. West Sussex, UK : John Wiley & Sons Inc., c2013. ISBN: 9781118570692

This book shows scientists how to apply their analysis and synthesis skills to overcoming the challenge of **how** to write, as well as **what** to write, to maximise their chances of publishing in international scientific journals. Strategies are presented for responding to referee comments, and for developing discipline-specific English language skills for manuscript writing and polishing.

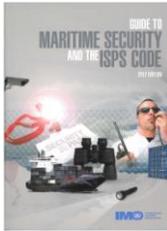
More details: <http://au.wiley.com/WileyCDA/WileyTitle/productCd-1118570707.html>



**Trace metals in aquatic systems** by R. P. Mason. Hoboken, NJ : John Wiley & Sons, c2013. ISBN: 9781405160483.

This book provides a detailed examination of the concentration, form and cycling of trace metals and metalloids through the aquatic biosphere, and has sections dealing with the atmosphere, the ocean, lakes and rivers. Specific examples deal with metals that are of particular scientific interest, such as mercury, iron, arsenic and zinc, and the book deals with both pollutant and required (nutrient) metals and metalloids.

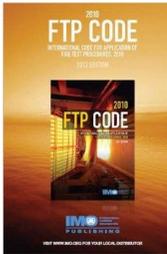
More details: <http://au.wiley.com/WileyCDA/WileyTitle/productCd-1405160489.html>



**Guide to maritime security and the ISPS code / International Maritime Organization** by the International Maritime Organization (IMO). 2012 ed. London : IMO. c2012. ISBN: 9789280115444.

This International Ship and Port Facility Security Code (ISPS Code) contains a set of measures to enhance the security of ships and port facilities. This was developed in response to the perceived threats to ships and port facilities in the wake of 9/11 attacks in the United States.

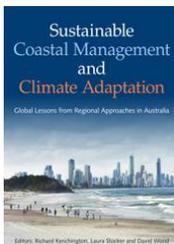
More details: [http://www.imo.org/OurWork/Security/Guide\\_to\\_Maritime\\_Security/Pages/Guide-to-Maritime-Security.aspx](http://www.imo.org/OurWork/Security/Guide_to_Maritime_Security/Pages/Guide-to-Maritime-Security.aspx)



**FTP Code : International code for application of fire test procedures, 2010 : [Resolution MSC.307 (88)]** by International Maritime Organization (IMO). 2012 ed. London : IMO. c2012. ISBN: 9789280115482.

The 2010 FTP Code provides the international requirements for laboratory testing, type-approval and fire test procedures for products referenced under SOLAS chapter II-2 (which includes regulations on fire protection, fire detection and fire extinction).

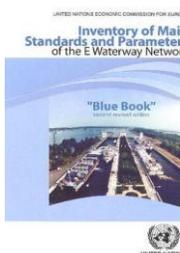
More details: <http://www.imo.org/MediaCentre/PressBriefings/Pages/26-FTP-code.aspx>



**Sustainable coastal management and climate adaptation : global lessons from regional approaches in Australia** edited by R. Kenchington, L. Stocker and D. Wood. Collingwood, VIC : CSIRO Publishing. c2012. ISBN: 9780643100275.

This publication explores the evolution of coastal management, and provides critical insights into contemporary experience and understanding of coastal management in Australia. It also draws on contemporary theory and lessons from case examples to highlight the roles of research and community engagement in coastal management.

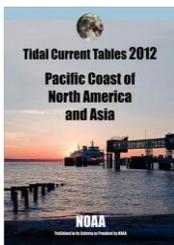
More details: <http://www.publish.csiro.au/pid/6510.htm>



**Inventory of main standards and parameters of the E waterway network : "Blue Book"** by Economic Commission for Europe, Inland Transport Committee, Working Party on Inland Water Transport. 2<sup>nd</sup> rev. ed. New York : United Nations, c2012. ISBN: 9789211170627.

This book presents a regularly updated inventory of existing and envisaged standards and parameters of E waterways (Pan-European network of inland waterways of international importance) and ports in Europe.

More details and pdf of the entire paper: <http://www.unece.org/fileadmin/DAM/trans/doc/2012/sc3wp3/ECE-TRANS-SC3-2012-inf07e.pdf>



**Tidal Current Tables 2012 : Pacific Coast of North America and Asia** by the National Oceanic and Atmospheric Administration. Belfast, ME : North Wind Pub., c2012. ISBN: 9780983078098.

The Tidal Current Tables contain daily predicted times of slack water and the predicted times and speeds of maximum current (flood or ebb) for each day of the year on the Pacific Coast of North America and Asia.

More details: <http://www.amazon.com/Tidal-Current-Tables-2012-Pacific/dp/0983078092>

## Conference & Meeting Notices

- 9 – 12 Feb 2014      **Aquaculture America 2014**, Washington State Convention Center, Seattle, USA. Web: [www.was.org](http://www.was.org)
- 23 - 28 Feb 2014      **Ocean Sciences Meeting**. Hawaii Convention Center, Honolulu, Hawaii, USA. Web: <http://www.sgmeet.com/osm2014/default.asp>
- 3 – 7 Mar 2014      Pacific Islands Forum Fisheries Agency (FFA), **Fisheries Licensing Officers' Workshop**, FFA, Honiara, Solomon Islands. Web: <http://www.ffa.int/calendar>
- 18 – 20 Mar 2014      **International Conference on Marine Science & Aquaculture 2014 (ICOMSA 2014)**, "Ecosystem Perspectives in Sustainable Development." Kota Kinabalu, Sabah, Malaysia. Web: <http://www.ums.edu.my/v5/index.php/en/seminar/347-icomsa2014.html>
- 24 – 28 Mar 2014      **17<sup>th</sup> MCS Working Group Meeting**, Forum Fisheries Agency, Honiara, Solomon Islands. Web: <http://www.ffa.int/>