

PIMRIS

Pacific Islands
Marine Resources
Information System



NEWSLETTER

Published by the PIMRIS Coordination Unit,

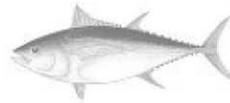
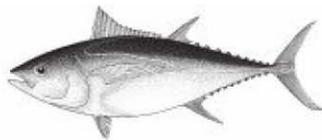
c/ Division of Marine Studies, University of the South Pacific,
Closed Mail Bag, Suva, Fiji
Tel: (679) 323 2934 Fax: (679) 323 1526 Email: pimris@usp.ac.fj

Vol. 24, no. 2

June 2012

ISSN 1015-3217

Editorial



Many marine-related initiatives and events have taken place this second quarter, all aimed at better protecting and managing the world's oceans and marine resources. One of the main events was the Rio +20 Earth Summit held in Brazil from 20-22 June during which more than 80 countries, civil society groups, private companies and international organizations voiced their support for the new Global Partnership for Oceans (GPO), an alliance "that will mobilize knowledge and financial resources to address threats to ocean health, resilience and productivity" (<http://www.globalpartnershipforoceans.org/>)

Our region also hosted important marine/fisheries related meetings, including Coral Alliance and EU-ACP. A highlight for PIMRIS was the arrival of the 'Pacific Voyagers – Te Mana o te Moana' *vaka* or canoes at the USP Lower Campus foreshore after a year-long voyage. The arrival marked the celebration of 'World Oceans Day' and was organized by the Fiji Islands Voyaging Society. The passion, skill and bravery of the crew on each of the seven *vaka*, is inspirational as they voyage together to strengthen ties with the ocean, renew the Pacific people's commitment to healthy ecosystems and honour ancestors who used the sun, stars, wind, waves and other aspects of nature to navigate the Pacific Ocean. We could not resist sharing this event with our readers and have included a report with photos (pp.3-4).

USP Lower Campus was also the venue for the launch of a new publication '*Economics of coastal zone management in the Pacific*' (p.7) followed by a presentation from USP's newly appointed Pro Vice-Chancellor (Research & International), Professor Bythel (p.5). The discovery of the blue coral, *Heliopora coerulea*, off the Yasawa group by USP scientists is highlighted (p.6.). Work continues in the region with updates on activities from partners (pp.9-13) and other sources as well as the latest additions to PIMRIS/Lower Campus library (pp.14-15). Happy reading!

Susana Macanawai, PIMRIS Coordinator

Contents

New faces, new places	2
Pacific Voyagers – Te Mana o te Moana	3
USP's new PVC – Research & International	5
'Blue coral' discovered in Fiji	6
New book on coastal management launched	7
Australia-Pacific Marine Twinning Program	8
News from around the region	10
New additions to PIMRIS Library	14
Conference and Announcements	16



The Pacific Voyagers led by the 'Uto ni Yalo' approaching the USP Lower Campus foreshore in Suva, Fiji. (Photo credit: J. Seeto)

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.

For additional information, contact the coordination unit or a specific agency.

Secretariat of the Pacific Regional Environment Programme (SPREP)

Vacant
Information Resource Centre Manager

(Contact person: Miraneta Williams-Hazelman)

MiranetaW@sprep.org

www.sprep.org

Secretariat of the Pacific Community (SPC) / Secrétariat général de la Communauté du Pacifique

Aymeric Desurmont

Fisheries Information Officer/Charge del l'information halieutique

AymericD@spc.int

Marie-Clare Ame
Librarian / Bibliothécaire

Pacific Islands Forum Fisheries Agency (FFA)

Eddie Marahare

Librarian

Eddie.marahare@ffa.int

www.ffa.int

University of the South Pacific (USP) PIMRIS Coordination Unit

Susana Macanawai

Librarian/PIMRIS Coordinator

Jainul Ali (*Library Assistant*)

Reshika Narayan (*PTJLA*)

Manoj Prasad (*Library Attendant*)

pimris@usp.ac.fj

www.usp.ac.fj/library/pimris.htm

New Faces, New Places

Welcome Aboard!

Sisilia Soakai – Tonga

PIMRIS' new national contact at the Tonga Fisheries Division is Ms Sisilia Soakai. Silia, as she is known, is Media Officer in the Division and takes over the library responsibility from Lavinia Vaipuna who acted



Sisilia Soakai

in the interim after Emeline left in 2011. Silia holds a Diploma in Media & Journalism from Tonga and her many roles include the coordination and preparation of monthly radio and TV programmes. We are excited to have Silia in the network!

Tuluiga Taito – Samoa



Tuluiga Taito

Tuluiga is a new addition to the Samoa Fisheries Library and was working under the guidance of the late Olofa Tuaepepe (see last page). Tuluiga recently toured selected Australian libraries under the Pacific Twinning programme.

We look forward to working with Tuluiga, to maintain the Samoa Fisheries Division database and develop the collection and services at the fisheries library.

Manoj Prasad – PIMRIS Coordination Unit



Manoj Prasad

In early May, PIMRIS coordination unit (USP Lower Campus Library) welcomed Manoj Prasad, to the team. Manoj's recruitment is a result of recent developments at USP library, in particular the 'Bags in Library' policy.

Manoj is no stranger to USP Library having worked there as a library attendant from 1991 until 1999. He joins PIMRIS from the Fiji National University where he held a similar post. He hopes to complete the Diploma in Library/Information studies from USP soon.

'Te Mana o Te Moana' – The Spirit of the Sea PACIFIC VOYAGERS

It began under a Samoan fale on Utulei beach in Pagopago in 2008. Rawiri Paratene shared his dream of seven canoes being built to sail the world together as Pacific people to give voice to our ocean and plight of our marine life. Dieter Paulmann's Okeanos Foundation made this dream a reality and seven double hull voyaging canoes were built in Auckland, New Zealand.

With the next festival of Pacific arts about a month away, two major voyages have completed. The canoes are 72' or 22 metres long and weigh 14 tonnes. They carry a crew of 16 with 8 sleeping in each hull. The longest non-stop voyage so far was from Galapagos to Tahiti which took the fleet 29 days. The seven canoes are: Uto ni Yalo, Hine Moana, Gaulofa, Marumaru Atua, Faafaite, Haunui, Te Matau a Maui. (Fiji Islands Voyaging Society: <http://www.fijivoyaging.com>)

The Cause

Our journey has grown from one man's inspiration into an ever-expanding fleet of seven *vaka moana*, or ocean going canoes, sailing across the Pacific, fueled by the wind and sun, and supported by [Okeanos Foundation for the Sea](http://www.okeanos.org). The *vaka* are crewed by indigenous people of many Pacific nations, sailing as one, reconnecting with cultural heritage and raising awareness about contemporary threats to the ocean. Our family of *vaka* has grown to include the *vaka motu*, or inter-island canoe, designed for sustainable inter-island transport, and the *vaka hapua*, designed for lagoon and short distance traveling. New initiatives are also emerging to inspire a self-reliant, fossil fuel free future for the Pacific and for generations to come.

(Pacific Voyagers: <http://pacificvoyagers.org>)

Uto ni Yalo's Homecoming & Drua Festival

The Pacific voyagers sailed into Ovalau early Friday morning on the 8th June 2012 and were welcomed by school children, families, friends and supporters who assembled along the shore. The official welcome ceremony which was held at the Levuka wharf was led by Adi Koila Nailatikau, Fiji's first lady followed by presentations (food and garlands) and entertainment provided by various groups and school children. The two-day programme in Ovalau included awareness activities (talks with schools), monument unveiling at Nasova Hall and community sailing on the *vaka* for the general public to get a feel of the canoes.



Te mana o te Moana – Pacific Voyagers sailing into the USP Lower Campus foreshore led by the Fijian Uto-ni-Yalo.

(Photo credit: Natalia Tsoukala, Pacific Voyagers)

The beat of *lalis* heralded the arrival of the Uto ni Yalo and Pacific Voyagers early Monday morning at the USP Lower Laucala Campus in Suva. The foreshore was lined with supporters, families, friends and entertainers who turned up to witness and welcome the arrival of the



Approaching USP lower campus foreshore
(Photo credit: Natalia Tsoukala, Pacific Voyagers)

fleet and crew. The colourful and lively traditional Fijian welcome started with the presentation of the *tabua* (whale tooth) at sea to the crew of the Uto ni Yalo. Then came a swim (race) by representatives from each of the seven *vaka* to shore to search for the prized *tabua* concealed amongst a group of women and grasp a *sulu* or *tapa* waved by the women waiting on the foreshore. Traditional Fijian ceremonies followed with the 'yaqona vakaturaga' (presentation of kava), vakamamaca (presentation of mats) and 'wase ni yaqona' (presentation of cooked food) which were watched with great interest by both the crowd and crew.

The liveliest moves of the day came from the Fiji Military Forces Brass Band and martial arts team who kept the crowd and crew on their feet.

Monday's events marked the beginning of the 'Drua Festival' celebrating World Oceans Week in Suva which was organized by the Fiji Islands Voyaging Society and partners.

During the week-long celebrations, the crew participated in non-sailing activities such as the hike to the nearby Mt. Korobaba and Colo-i-Suva forest. They also shared their voyage experiences during a public symposium held over three days and witnessed other events organized in Suva and USP including school displays and art displays at the Fiji Museum. The USP Oceania Centre for Arts, Culture and Pacific Studies staged a special production called 'Drua: Wave of Fire' at the new USP ICT Centre, about a Fijian prince's voyage across the Pacific. Schools also toured the *vaka* at USP Lower Campus.

The canoes finally left Suva for Vanuatu and Solomon Islands early Sunday morning after a delayed Fiji customs clearance.



Rewa women at the USP Lower Campus (Laucala Bay) foreshore welcoming the Uto ni Yalo and the rest of the Pacific Voyagers fleet. (Photo credit: J. Seeto)

Coral reef biology specialist appointed new USP PVC – Research and International

University appoints new Pro Vice-Chancellor (Research and International)

The University of the South Pacific recently announced the appointment of Professor John Bythell as the University's new Pro Vice-Chancellor (Research and International).

Professor Bythell was previously the Director of Research in the School of Biology at Newcastle University, UK. Specializing in coral reef biology, he led the Coral Health and Disease Laboratory at Newcastle, with on-going and recent research programmes in Australia, the Caribbean, Solomon Islands and Thailand.



New Pro Vice-Chancellor (Research and International), Professor John Bythell.

In a statement on his appointment, Professor Bythell expressed enthusiasm for his new position.

“I am honoured to be given the opportunity to take on the challenge of directing the research and international portfolio at USP. The trajectory, ethos, international standing and unique resources available as a South Pacific regional centre is all excellent and I have no doubt that the University can achieve its goals of becoming a world-class, research-led university.”

Professor Bythell stated that he looks forward to working at USP.

His primary research is focussed on molecular microbial ecology of emergent diseases in reef corals and understanding the stress responses of corals to environmental change. He was one of four UK scientists involved in the Coral Reef Targeted Research Programme (GEF/World Bank), as part of the coral Bleaching Working Group.

At Newcastle, Professor Bythell acted as theme leader for marine environmental systems research across the university and was involved in the preparations for the UK Research Excellence Framework (2014) assessment of research quality.

In congratulating the new Pro Vice-Chancellor (Research and International), the Vice-Chancellor and President of USP, Professor Rajesh Chandra said, he is confident that Professor Bythell will provide excellent leadership in both areas of research and international, work very collaboratively with the Deans, Director of Research and other members of the University's Senior Management Team as well as with Research Cluster leaders and other staff to help in the transformation of USP from good to excellence.

Among his other accomplishments, Professor Bythell also acts on the UNESCO-Intergovernmental Oceanographic Commission ad hoc committee on coral bleaching and is on the Programme Committee of the Western Indian Ocean Marine Sciences Association, Marine Science and Management programme, which manages and distributes research funding across east Africa and the western Indian Ocean on behalf of the Swedish development agency, SIDA.

(Source: USP)

Rare coral species found in Fiji

The blue coral, scientifically known as *Heliopora coerulea* was recently sighted on one of the reefs off Tiliva Island, Viwa in Yasawa.

The blue coral was discovered during a trip by a team from the University of the South Pacific (USP) and the Ministry of iTaukei Affairs that was on Viwa Island to conduct the Leadership and Management workshop for chiefs and leaders in the district.

Mr Ron Vave, who works as a Senior Scientific Officer at the Institute of Applied Science based at USP, was part of the Ministry of iTaukei Affairs team. He said that in his 12 years of diving experience in Fiji, he had not seen the blue coral in Fiji waters until his trip to Viwa Island. Unlike other coral species found in Fiji and around the world which are colorful on the outside but when cracked open or broken, will have a white skeleton, the *Heliopora coerulea* is unique because it has a blue skeleton inside, made of aragonite and iron salts which gives it a blue pigmentation.

“This blue coral in Fiji has only been observed in Rotuma and in parts of the Mamanucas and the Yasawas,” Mr Vave said.

One key component discussed during the two-day workshop held at Najia village was the sustainable use of natural resources by communities. This was in line with talks to establish a Marine Protected Area (MPA) by the three villages on Viwa Island. They will be discussing about the size and location of the MPA in order to include the reef area off Tiliva Island where this blue corals were found.

“What’s slightly worrying is that only a single blue coral colony, measuring about 25cm high and 30cm wide, was found in my three-hour morning snorkel. More underwater surveys should be done on reefs around Viwa Island to ascertain whether there are more of these blue corals,” Mr Vave said.

Najia village headman, 55-year-old, Mr Ilaisa Sukaloa said, he has never seen the blue coral in his life. Mr Vave explained that most likely Viwa islanders and other divers may have seen the blue coral on the reefs but may have failed to recognize it because of its outer grey or brown colour. “Only once the coral is broken, will it reveal the blue skeleton within,” he added.

Mr Vave believes that the rarity of the blue coral on Fiji’s reefs could be a dive attraction for tourists, particularly given that Viwa Island resort is just nearby.

Ms Helen Pippard, Species Officer at the International Union of Conservation of Nature in Suva (IUCN) highlighted that although the species is found throughout much of the Indo-Pacific, it is often uncommon. “*Heliopora coerulea* is listed as vulnerable on the IUCN Red List of Threatened Species and although not seen to be traded in Fiji, blue coral is targeted by collectors in most parts,” she said.

Ms Pippard pointed out that in Fiji, further research into the population of the blue coral, its ecological requirements and potential threats is required. “Because of its rarity in Fiji, blue coral colonies should be protected,” she stressed



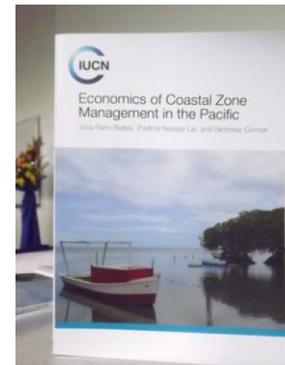
The outer surface of a blue coral colony.
(Photo credit: USP)

While the discovery is an exciting one, Mr Vave emphasised that more information is needed for proper management of the blue coral species.

(Source: USP)

New publication 'Economics of coastal zone management in the Pacific' launched at USP Lower Campus

A new publication co-authored by Vina Ram-Bidesi, Padma Narsey Lal and Nicholas Conner titled 'Economics of coastal zone management in the Pacific' was launched by USP's Pro-Vice Chancellor (Research and International), Professor Bythell at the USP Lower Campus on the 8th June to start World Oceans Day celebrations.



(Photo credit: J.Seeto)

According to the authors, over the last decade or so, a common set of resource and environmental issues have become apparent in the Pacific Islands, including unsustainable harvesting of coastal fishery resources, degradation of coastal and marine ecosystems such as mangroves, coral reefs and seagrass beds, increasing solid waste, and groundwater pollution from human and animal waste.

The authors further state that 'while the Pacific people live in a modern world, they also have strong social ties and are influenced by their cultural traditions. This traditional system is nevertheless gradually weakening, particularly as it is often at odds with the pressures of individualism encouraged by globalization and market economic forces.'

This new book provides an analysis of the effects and management implications of fundamental and economic drivers, the influences and root causes of coastal resource and environmental challenges and their impacts as well as the potential role of market-based instruments in encouraging efficient and sustainable use of coastal resources.

Mr Taholo Kami, the regional director of IUCN-Oceania region acknowledged the work of the authors and stressed the need for more marine economists who can assist local governments and decision makers as well as local communities in making informed decisions that will benefit all in relation to marine and ocean resources.

The book was published by the International Union for Conservation of Nature (IUCN) in collaboration with the University of the South Pacific (USP), Secretariat of the Pacific Regional Environment Programme (SPREP) and the Secretariat of the Pacific Community (SPC).



Dr Joeli Veitayaki, Professor Biman Prasad, Mr Taholo Kami, Dr Vina Ram-Bidesi and PVC Research & International, Professor John Bythell at the book launch.

(Photo credit: J. Seeto)

PIMRIS partners visit Australian libraries under AusAID funded Australian Twinning Programme



PIMRIS partners and their hosts during their visit under the Australian Twinning Programme in February 2012.
(Photo credit: Mwaba Raurenti)

The Marine and Environmental Libraries Twinning Programme between selected Australian marine/environmental libraries and libraries in the Pacific region started earlier this year with a visit by library staff from the Samoa Fisheries Division (Tuluiga Taito), Kiribati Fisheries (Mwaba Raurenti) and SOPAC (Doreen Naidu).

During their three weeks in Australia, the Pacific libraries staff, who are also members of the PIMRIS network, visited the libraries and learned about scanning and cataloguing amongst many other activities at the Great Barrier Reef Marine Park Authority (GBRMPA), James Cook University, Townsville hospital and the GeoScience library in Canberra.

The visitors also had a chance to visit the High Court library in Canberra, Australian National University and the Ministry of Fisheries and Agriculture libraries.



Pacific Island marine libraries staff (Mwaba, Doreen & Tuluiga) during their visit Down Under
(Photo credit: Tuluiga Taito)

According to the submission by the GBRMPA librarian to AusAID, the Marine & Environmental Libraries Twinning programme aims at strengthening processes and systems within natural resource management agencies to improve performance in marine/environmental information management which will hopefully complement and strengthen linkages already being undertaken by the IODE Pacific library network.

PIMRIS appreciates the initiative and hopes participants of this programme, especially Pacific Island library staff, will fully utilize invaluable experiences and skills gained as well as new partnerships to develop library/information services and collections at their libraries.

Kiribati Fisheries Library Staff reports on her experience during the Australian Libraries Twinning Programme - February 2012



This report summarises my experience during the Australian Twinning program that took place from 6-28 February in several cities in Australia. The programme included visits to libraries in the cities of Townsville, Canberra and Sydney.

The main objective in visiting these libraries was to enhance our capacity in library procedures such as cataloging, inter library loans, special collection organization, collection management, image collection, safe storage of maps, cds and tapes, institutional repository management, alerting inductions for new staff and the Australian tsunami warning. In addition, some web applications were demonstrated (TiddlyWiki, Mendeley and blogging etc) that can assist with further information.

Libraries visited included GBMRPA, James Cook University, a hospital library in Townsville and GeoScience library in Canberra. During these visits the librarians taught us procedures for cataloging, storage of books and scanning documents that were important for the public to use.

In addition, we visited libraries of the High Court, Australian National University and Ministry of Fisheries and Agriculture. The librarians showed us how to set up data on computers for book loans and to do appointments with clients that need information from the library.

In respect of gaining knowledge and experience during the observation of libraries in Australia, I now feel competent to assist my clients, such as students, in their research on marine studies more efficiently and effectively by accessing websites that were demonstrated during the training.

Apart from that I have organized my cataloging based on experience obtained from this programme and to initiate and develop management system storage and recording copies of books in data base of Greenstone and safe storage of cds and dvds.

Recently I have applied procedures learned during the training and am most grateful that I can perform my tasks efficiently and effectively to a required standard. I also want to start using TiddlyWikki as it will be helpful to my library.

It is my pleasure to convey sincere thanks to AusAID for their financial support for the entire training. I have learnt many procedures and am eager to apply them to enhance the Kiribati Fisheries library.

Finally, I would like to extend my sincere gratitude to Suzie, Jenny, Joanna, Chris, all staff of GBMRPA, staff of James Cook University and staff of GeoScience in Canberra for their kind assistance during our stay in Townsville and Canberra. It is a pleasure to know you all.

Mwaba R. Bakarere
Kiribati Fisheries Librarian

News from around the Region

Rarotonga trochus potential highlighted

The Ministry of Marine Resources is concerned that a valuable export, trochus shell, is not being used wisely on Rarotonga, with people missing out on the opportunity to earn additional income.

Trochus were originally introduced into the Cook Islands in 1956, with a view to developing an income generating opportunity and small export industry for the people. Since then, the trochus fishery in Aitutaki has gained a reputation as being among the best managed trochus fisheries in the world, bringing substantial benefits to the Aitutakian people, and contributing to our national export income.



Aitutaki residents share a laugh while processing \$80,000 worth of harvested trochus shells...

(Photo credit: Cook Islands News)

The harvest conducted late last year in Aitutaki provided an income of over \$80,000 for 79 families who worked on several days over a two-week harvest period. This averaged out at more than \$1000 per family for approximately one week of hard work, collecting, boiling, and cleaning the shells. In addition, about two tonnes of trochus meat were distributed around the island, and sent to friends and family in Rarotonga, for use in a variety of seafood recipes.

The eventual buyer, a European based button manufacturer, was extremely pleased with the quality of the shells received.

Unfortunately, the same cannot be said for the trochus in Rarotonga. While there is a significant number of trochus on the reef, they are harvested in a haphazard manner, and the valuable shell is most often smashed or left on the beach to deteriorate after the meat is extracted.

The Ministry of Marine Resources would like to see this situation improved, and a management strategy put in place that allows people to gain the maximum benefit from the resource, by being able to sell the shells to local exporters.



Cook Is. trochus. *(Photo credit: CI News)*

Kelvin Passfield, senior fisheries officer, said that he would like to hear from people who currently harvest trochus for meat, shells or handicraft and curio production to understand how to manage this resource better.

“If you wish to have a say in the future harvest of this resource then please contact us and let us know your views” he said.

MMR is also planning on using radio talkback to get feedback from the community.

(Source: Cook Islands News)

Solomon Islands Ministry of Fisheries and Marine Resources (MFMR) conducts Provincial Division Workshop



Participants of the MFMR Provincial Division workshop and meeting. (Photo credit: Francis Tofuakalo - MFMR)

A three-day workshop and meeting was organized for all provincial fisheries officers as part of the overall plan for quarterly meetings this year, to better understand the MFMR Corporate Plan 2012-2014 and discuss plans and progress made at provincial level.

The objectives of the workshop:

- to inform provincial officers MFMR overview and activities in line with the Corporate Plan 2012-2014
- present and discuss updates on progress of work plans by provincial officers
- to discuss and plan possible inclusion of provinces under the MFMR-PFDD budget 2012/2013
- address issues pertinent to fisheries development in the provinces

The expected outputs and outcomes:

- Provincial fisheries officers are updated, aware and involved with the direction MRMR-PFDD is taking relating to the corporate plan
- Provincial fisheries officers work plans are captured in PFDD (Provincial Fisheries Development Division) budgetary provisions

The workshop/meeting started with presentations by the ministry's Provincial Fisheries Development Division (PFDD) on the corporate plan, staffing and finance, highlighting their specific and expected outputs under the plan which includes: provincial centre support, development of a market and trade database, improve inter-island transportation systems, community fisheries development and national development projects.

Provisional officers presented their updates and raised issues for consideration including transportation, infrastructure (staff housing, offices), the proper alignment of tasks to avoid duplication and confusion as well as more support needed from the ministry headquarters in terms of budget and staffing. Presentations by other ministry divisions followed, highlighting the roles and responsibilities of PFOs (eg. compliance and licensing issues) and on their entitlements and incentives.

Another workshop is planned for September but more on activities to do rather than just presentations and discussions. The new direction for the PFDD as a new division in the ministry certainly requires understanding and cooperation for it to succeed.

Francis Tofuakalo
MFMR – Solomon Islands

Samoa Fisheries: Offshore Longline Catch Landings Jan-Mar 2012



Tuna catch (Photo credit: Samoa Fisheries)

The offshore section statistics for longline catch landings are mainly from port sampling activities, daily boat census, port visit logs and catch logsheets from all vessels including the Alias.

These figures are fractional due to fact that the provisional entry for the month of March is incomplete. Table 5 shows longline fishery catch landings by species in metric tons for January and February 2012.

Albacore dominated the total catch for these two months generated at 138.6MT; yellowfin tuna at 28.8MT, big eye tuna generated the least at 2.9MT.

Other species such as blue marlins, black marlins, broadbill fish and skipjack accounted for the rest. Comparing January and February 2011 to January and February 2012 it is an increase in total catch for this year by 17.5MT.

Table 1: Catch landings for Longline Fishery Jan-Mar 2012

Months	Species	Weight (MT)
January	Albacore	86.7
	Big-eye Tuna	1.8
	Yellowfin Tuna	12.9
	Other species	9
February	Albacore	51.9
	Big-eye Tuna	1.1
	Yellowfin Tuna	15.9
	Other species	6.8
	Total	186.1

Offshore Market Catch & Landings: Jan-Mar 2012

Data collected from the two main outlets Apia and Salelologa Fish Markets (table 2) shows the catch landings from bottom fishing and troll fishing.

The highest weight of fish landed and sold was recorded in February in both trolling and bottom fishing. The skipjack (*Katsuwonus pelamis*), juvenile yellowfin (*Thunnus albacores*) and other surface pelagic species from troll fishing comprise around **85%** of total landings and total value at around **70%**.

Bottom fish species such as humpback snappers (*Lutjanus gibbus*), silverjaw jobfish (*Aphareus rutilans*), short tail snapper (*Etelis carbunculus*) and long nose emperor (*Lethrinus olivaceous*) accounted for the rest.

The total catch landings for this quarter generated at **61.25MT** and valued at **\$372,365.72ST** which is a decrease for this quarter compare to the last quarter, Oct-Dec 2011. The volume of total landings for this quarter were landed at Apia Fish Market and sold at a high price.

(con't next page)

Table 2: **Bottom fish and trolling landings (Jan-Mar 2012)**

Month	Trolling		Bottom Fishing		Total		
	Weight (MT)	Value(\$)	Weight (MT)	Value(\$)	Weight (MT)	Value(\$)	Av. price/kg
Jan	21.96	129,328.18	0.611	9,415.89	22.57	138,744.07	\$ 6.14
Feb	23.5	130,858.05	0.790	12,295.78	24.29	143,153.83	\$ 5.89
Mar	13.56	78,831.28	0.838	11,636.54	14.39	90,467.82	\$ 6.28
Total	59.02	339,017.51	2.239	33,348.21	61.25	372,365.72	\$ 18.31



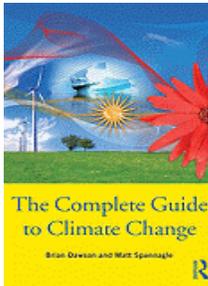
Images of reef fish sold at the Apia Fish market. (Photo credit: Google)

Table 3: **Market landings at two main outlets (Salelologa & Apia Fish Markets): Jan – Mar 2012**

Market	Estimated Value(\$)	Estimated Weight (MT)	Value (%)	Weight (%)	Average Price/kg(\$)
Salelologa Fish Market	83,530.73	16.00	22.44	26.12	5.22
Apia Fish Market	288,834.97	45.25	77.56	73.88	6.38
Total	372.365	61.25	100	100	11.60

Lucille Aukusitino
 Samoa Fisheries Division
 (Website: www.maf.gov.ws)

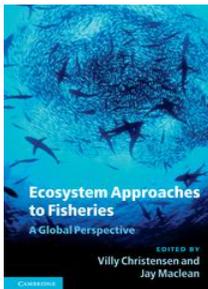
New additions to PIMRIS Library



The complete guide to climate change by Brian Dawson & Matt Spannagle. New York: Routledge, c2009. ISBN: 9780415477901.

The Complete Guide to Climate Change is an indispensable resource. Taking you through the A to Z of the key scientific, geographical and socio-political issues involved in the study of the environment and the implications of mankind's effect upon it, topics covered include: environmental science - the Carbon Cycle and the "Greenhouse Gases"...

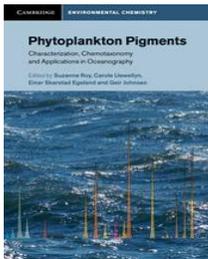
<http://www.amazon.com/The-Complete-Guide-Climate-Change/dp/0415477891>



Ecosystem approaches to fisheries: a global perspective edited by Villy Christensen and Jay Maclean. Cambridge; New York: Cambridge University Press, c2011. ISBN: 9780521130226.

Inspired by the work of the renowned fisheries scientist Daniel Pauly, this book provides a detailed overview of ecosystem-based management of fisheries. It explores the complex and interdisciplinary nature of the subject by bringing together contributions from some of the world's leading fisheries scientists, managers and conservationists. Combining both research reviews and opinion pieces...

http://www.cambridge.org/gb/knowledge/isbn/item5738850/?site_locale=en_GB



Phytoplankton pigments: characterization, chemotaxonomy, and applications in oceanography edited by Suzanne Roy et. al. Cambridge; New York: Cambridge University Press, c2011. ISBN: 9781107000667.

Pigments act as tracers to elucidate the fate of phytoplankton in the world's oceans and are often associated with important biogeochemical cycles related to carbon dynamics in the oceans. They are increasingly used in in situ and remote-sensing applications, detecting algal...

http://www.cambridge.org/gb/knowledge/isbn/item6006763/Phytoplankton%20Pigments/?site_locale=en_GB



Marine ecosystems and global change edited by Manuel Barange, John Field, Roger Harris et.al. Oxford: Oxford University Press, c2011. ISBN: 9780199558025.

Global environmental change (including climate change, biodiversity loss, changes in hydrological and biogeochemical cycles, and intensive exploitation of natural resources) is having significant impacts on the world's oceans. This handbook advances knowledge of the structure and functioning of marine ecosystems, and their past, present, and future responses...

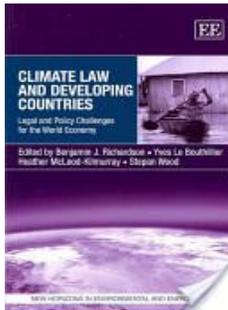
<http://www.oup.com/us/catalog/general/subject/EarthSciences/Oceanography/?view=usa&ci=9780199558025>



Management and sustainable development of coastal zone environments edited by A. Ramanathan, P. Bhattacharya et.al. Dordrecht: Springer, c2010. ISBN: 9789048130672.

Coastal areas face increasing pressures from land use change, developmental activities, shoreline erosion, biodiversity losses and natural calamities. This volume addresses these issues facilitating the integrated analysis of the sustainability of coastal zones...

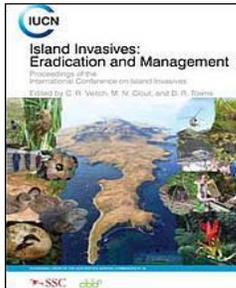
<http://www.springer.com/earth+sciences+and+geography/earth+system+sciences/book/978-90-481-3067-2>



Climate law and developing countries: legal and policy challenges for the world economy edited by Benjamin Richardson, Yves Bouthellier et. al. Cheltenham, UK: Edward Elgar, c2009. ISBN: 9781848442269.

This timely book examines the legal and policy challenges in international, regional and national settings, faced by developing countries in mitigating and adapting to climate change. With contributions from over 20 international scholars from developing and developed countries, the book tackles both long-standing concerns and current controversies.

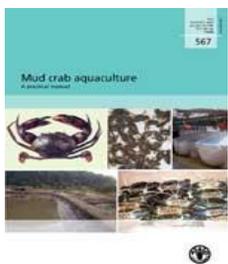
<http://www.amazon.com/Climate-Law-Developing-Countries-Environmental/dp/1848442262>



Island invasives: eradication and management: proceedings of the International Conference on Island Invasives edited by C.R. Veitch, M.N. Clout, & D.R. Towns. Auckland, N.Z.: IUCN. c2011. ISBN: 9822831712918.

This publication stems from a conference held in Auckland in 2010. The conference covered any aspect of invasive species relating to natural insular ecosystems. This book has four sections. The first deals with overviews and attempted eradications. The second introduces new technologies and approaches to eradications, such as dealing with multiple invasive...

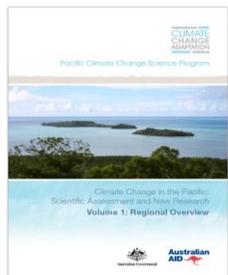
<http://www.iucn.org/about/union/secretariat/offices/europe/activities/overseas/?uNewsID=9003>



FAO Fisheries and Aquaculture Technical Paper no: (567). Mud Crab Aquaculture: a practical manual. Rome, Italy: Food and Agriculture Organization of the United Nations. c2011. ISBN: 9789251069905.

There are four species of mud crab, *Scylla serrata*, *S. tranquebarica*, *S. paramamosain* and *S. olivacea* that are the focus of both commercial fisheries and aquaculture production throughout their distribution. They are among the most valuable crab species in the world, with the bulk of their commercial production sent live to market...

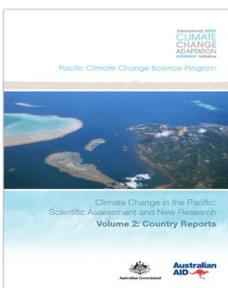
<http://www.fao.org/docrep/015/ba0110e/ba0110e00.htm>



Climate Change in the Pacific: scientific assessment and new research. Volume 1. Regional overview by the Australian Bureau of Meteorology, Commonwealth Scientific and Industrial Research Organisation (CSIRO). Melbourne: CSIRO. c2011. ISBN: 9781921826733.

Volume 1 presents an overview of the region: analysis of large-scale climate phenomena such as the El Niño-Southern Oscillation, seasonal variability and past climate trends and further develops regional climate change projections.

Download the full report or chapters using the links via: <http://www.cawcr.gov.au/projects/PCCSP/publications.html>



Climate Change in the Pacific: scientific assessment and new research. Volume 2. Country reports by the Australian Bureau of Meteorology, Commonwealth Scientific and Industrial Research Organisation (CSIRO). Melbourne: CSIRO. c2011. ISBN: 9781921826733.

Volume 2 presents individual country reports which provide country-specific projections and relevant climate information.

Download the full report or chapters using the links via: <http://www.cawcr.gov.au/projects/PCCSP/publications.html>

Conference Notices & Announcement

- 2 – 6 July 2012 **National Fisheries Officers Surveillance Course**, Forum Fisheries Agency, Honiara, Solomon Islands.
- 25 – 26 July 2012 **ICFAS 2012: International Conference on Fisheries and Aquatic Sciences**, Amsterdam, The Netherlands.
Website: <http://www.waset.org/conferences/2012/amsterdam/icfas/>
- 7 – 15 Aug 2012 **8th Regular Meeting of the WCPFC Scientific Committee (SC8)**. In accordance with the Commission Rules of Procedure, the Eighth Regular Session of the Scientific Committee of the Commission for the Conservation and Management of Highly Migratory Fish stocks in the Western and Central Pacific Ocean (WCPFC-SC8) will be held in Busan, Republic of Korea, from 7 (Tuesday) to 15 (Wednesday) August 2012 (Head of Delegation Meeting on Monday, 6 August 2012). Mr Naozumi Miyabe (Japan) will chair SC8. Website: <http://www.wcpfc.int/node/4587>
- 19 - 23 Aug 2012 **142nd Annual Meeting of the American Fisheries Society**, Minneapolis, St Paul, Minnesota. The 2012 AFS Annual Meeting will bring professionals together to network and share knowledge in fisheries science and management. Speakers will present a broad range of Fisheries topics at the plenary session, technical symposia and poster session as well as in continuing education courses. Website: <http://afs2012.org/>
- 23 – 24 Aug 2012 **International Conference on Fisheries and Marine Sciences 2012**. The ICRD / CEMARE joint Conference will provide a unique forum for participants to explore the many multidisciplinary aspects of fisheries and marine science. This conference will provide a wonderful opportunity for fisheries and marine scientists to meet, exchange information and network. Website: www.marinfish.org



The late Olofa Tuaopepe



PIMRIS is sorry to announce the sad loss of one of our key network members, Ms Olofa Tuaopepe (Principal Fisheries Officer – Advisory & Extension, Samoa Fisheries Division).

Olofa attended our ODIN-PIMRIS & PIMRIS Steering Committee meeting in early 2011 as our new contact replacing Ulusapeti Tiitii. As the officer in charge of the Advisory & Extension section, including the information section and library, she acted swiftly in installing the Greenstone software and developing the fisheries division database using the available manual. She also shared many scanned documents from the Samoa Fisheries Division for the regional e-repository.

Olofa will be sadly missed by all who knew and worked with her.