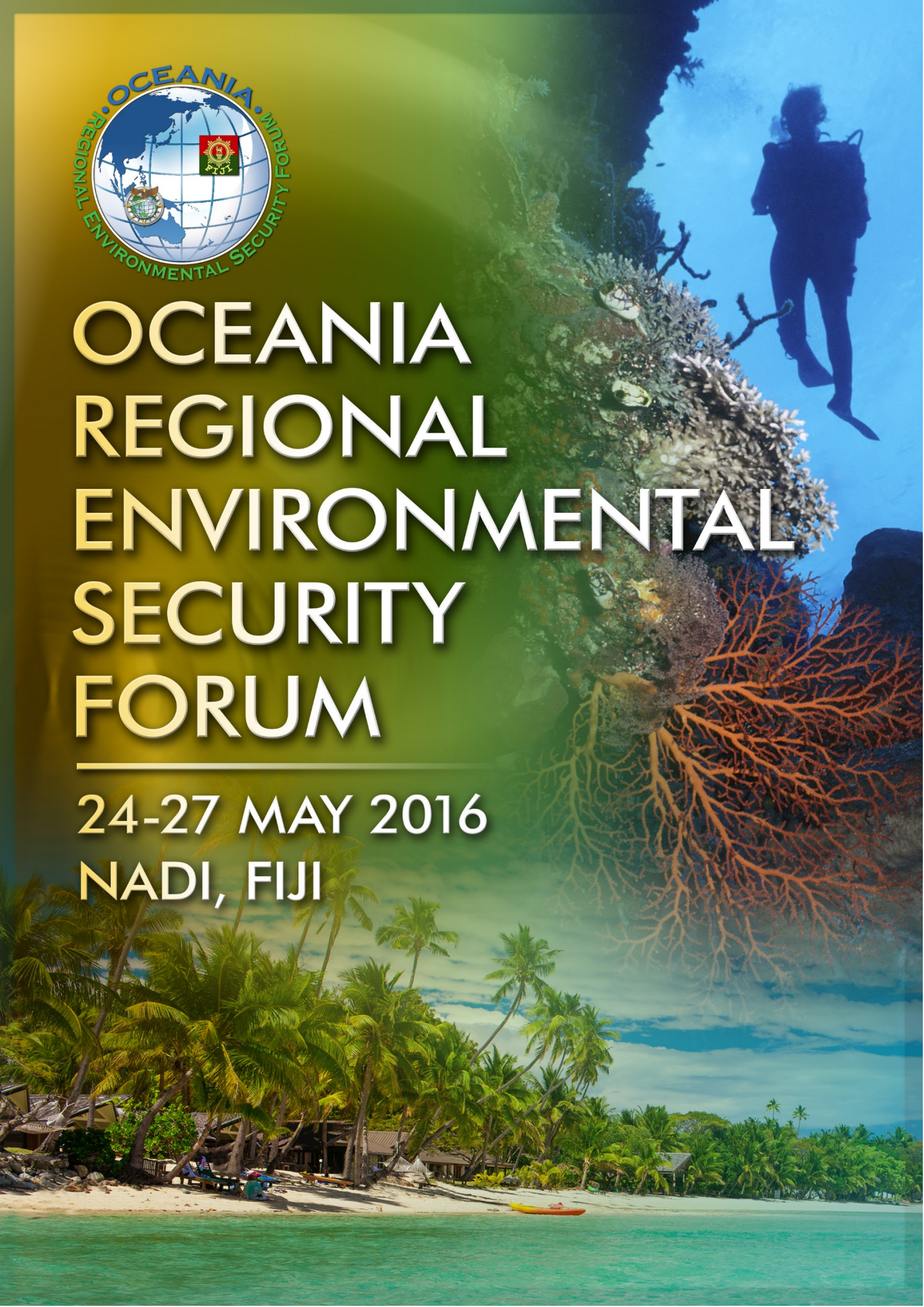




OCEANIA REGIONAL ENVIRONMENTAL SECURITY FORUM

24-27 MAY 2016
NADI, FIJI



-This page left intentional blank-



**OCEANIA REGIONAL ENVIRONMENTAL SECURITY FORUM
NADI, FIJI 2016**

Dear Forum Participant,

On behalf of the Republic of Fiji Military Forces and the U.S Pacific Command, we welcome you to the Republic of Fiji and the 2016 Oceania Regional Environmental Security Forum (RESF). The five previous environmental security conferences in Honolulu, Jakarta, Sydney, Malé, and Bangkok laid the foundation for this year's agenda. The 2016 RESF will emphasize Sustainable Ocean Resources, Protecting the Coastal Zone, Resiliency to Extreme and Frequent Weather Events, and Regional Project Collaboration.

The RESF seeks to develop environmental security awareness and partnerships throughout the Oceanic region. It strives to address civil-military environmental management; share sustainable and integrated natural resource environment solutions and best practices; showcase regional alternative climate change adaptation approaches; identify ways for militaries to increase resource protection; and to develop a "network of networks" of experienced military environmental planners to assist in operations and planning. Importantly, the RESF seeks to identify future environmental security initiatives, which we can all put in practice.

We are honoured that you have made your time available to attend, and very much welcome your participation over the next four days and beyond.

In our desire to conserve resources, the event agenda, information paper, speaker biographies, presentation summaries, table-top exercise scenario, and evaluation form are all available electronically for download at <http://www.pesforum.org>. Please contact the event organizers if you have questions.

With our best wishes for a successful forum,

A handwritten signature in black ink, appearing to read "Viliame Naupoto".

Rear Admiral VILIAME NAUPOTO
Commander
Republic of Fiji Military Forces
Republic of Fiji

A handwritten signature in blue ink, appearing to read "John E. O'Neil IV".

Brig Gen JOHN E. O'NEIL IV
J4
U.S. Pacific Command
United States of America

-This page left intentional blank.-

TABLE OF CONTENTS

INFORMATION PAPER	5
DAY 1: 24 MAY 2016: <i>SUSTAINABLE OCEAN RESOURCES</i>	7
AGENDA	9
SPEAKER BIOS & ABSTRACTS	11
DAY 2: 25 MAY 2016: <i>PROTECTING THE COASTAL ZONE</i>	21
AGENDA	23
SPEAKER BIOS & ABSTRACTS	25
SITE VISIT INFO PAPER	31
SITE VISIT MAP	33
DAY 3: 26 MAY 2016: <i>RESILIENCY TO EXTREME & FREQUENT WEATHER EVENTS</i>	35
AGENDA	37
SPEAKER BIOS & ABSTRACTS	39
DAY 4: 27 MAY 2016: <i>REGIONAL PROJECT COLLABORATION</i>	45
AGENDA	47
SPEAKER BIOS & ABSTRACTS	49

-This page left intentional blank.-



01 March 2016

INFORMATION PAPER

SUBJECT: 2016 Oceania Regional Environmental Security Forum

1. Purpose. To provide stakeholders with the concept, background, description and objectives of the 2016 Oceania Regional Environmental Security Forum (RESF).
2. Background. The 2016 RESF will be the sixth annual Indo-Asia-Pacific environmental security event organized by U.S. Pacific Command (USPACOM). The initial activity was held in Hawaii in 2011 and featured sessions on climate change adaptation, environmental sustainability, water resource management, and disaster preparedness. In 2012, the event moved to Jakarta, where the Indonesia Ministry of Environment hosted the event. There, fourteen countries met to evaluate Southeast Asia regional environmental security concerns related to pollution, global warming, deforestation, overfishing and water supply in an ASEAN (Association of Southeast Asian Nations) context. In 2013, USPACOM partnered with the Australian Department of Defence, involving 17 countries to discuss sustainable environmental management in military operations, lessons-learned from military support to disaster relief operations, managing bio-security risks in the military context, and emerging technologies and new approaches to mitigating and adapting to climate change impacts. In 2014, the Maldives National Defence Force hosted the PESF 2-5 June 2014, which focused on South Asia regional environmental security topics related to water, waste management, resource protection, and energy. Lastly, the Thailand Ministry of Defence hosted the event, and featured topics related to climate change, protection of the commons, military environmental programs, and project concept development.
3. Description.
 - a) WHO:
 - Assemblies rotate annually between pan-Pacific and regional meetings. The 2016 event will be regional and focused on Oceania. It will include participation from Oceania countries (such as New Zealand, Papua New Guinea, Samoa, etc.), as well as other countries like Japan, Philippines, and South Korea.
 - The Republic of Fiji Military Forces (RFMF) will host the 2016 RESF, with support from USPACOM.
 - b) WHAT:
 - The event will bring together participants from across the Pacific Ocean, to discuss environmental security as it relates to small island nations. USPACOM defines environmental security as, "The abundance or scarcity

of environmental resources and/or environmental degradation that can critically impact theater security.”

Specifically, the 2016 event will feature four themes. The themes include *Sustainable Ocean Resources, Protecting the Coastal Zone, Resiliency to Extreme and Frequent Weather Events, and Regional Project Collaboration*. Each theme in the 2016 RESF will include presentations by subject matter experts, followed by a panel session. Additionally, the event will include disaster resilience work group activities; a site visit to Sigatoka Sand Dunes National Park; and an Illegal, Unregulated and Unreported (IUU) Fishing Workshop to maximize regional collaboration and cooperation. The event will also feature an environmental project concept development assembly, where various countries can identify key projects or topics where the military may be able to contribute. The event will conclude with a comprehensive After-Action Review where all participants contribute to a final report that will support recommendations and an action timeline for implementation in the region.

c) WHEN:

- 24-27 May 2016

d) WHERE:

- Nadi, Republic of Fiji.

4. Objectives. The 2016 RESF objectives are:

- Identify sustainable approaches to regional resource protection;
- Evaluate best practices and lessons-learned in coastal zone management;
- Protect common ocean resources;
- Enhance regional environmental security cooperation; and
- Identify cooperative climate change adaptation projects.

5. Points of Contact.

Mr. Christopher Sholes
Environmental Program Manager
U.S. Pacific Command
christopher.sholes@pacom.mil

LTC Ratu Jone Tabakanaca Tavainavesi
Advisor, Strategic Headquarters
Republic of Fiji Military Forces
ittavainavesi@yahoo.com.au



REGIONAL
ENVIRONMENTAL
SECURITY FORUM

DAY 1

Co-Sponsored by: | Republic of Fiji Military Forces and the U.S.
Pacific Command

-This page left intentional blank-

AGENDA

DAY 1 - SUSTAINABLE OCEAN RESOURCES



TUESDAY, 24 MAY 2016

0 8 0 0 - 0 9 0 0	REGISTRATION
0 9 0 0 - 0 9 2 0	Opening Ceremony Comments by: <i>Honorable Douglas E. Sonnek, Deputy Chief of Mission, U.S. Embassy to Fiji, Kiribati, Nauru, Tonga, and Tuvalu</i> and <i>Honorable Praveen Kumar Bala, Minister for Local Government, Housing and Environment, Republic of Fiji</i>
0 9 2 0 - 0 9 3 0	GROUP PHOTO
0 9 3 0 - 0 9 4 5	BREAK
0 9 4 5 - 0 9 5 0	Master of Ceremony Administrative Reminders
0 9 5 0 - 1 0 0 0	Introduction to Sustainable Ocean Resources Theme <i>Mr. Russell Smith, Deputy Assistant Secretary for International Fisheries, National Oceanic and Atmospheric Administration, United States of America</i>
1 0 0 0 - 1 0 3 0	Maritime Pollution Surveillance <i>Mr. Anthony Talouli, Marine Pollution Advisor, South Pacific Regional Environmental Programme</i>
1 0 3 0 - 1 1 0 0	Marae Moana Cook Islands Marine Park: Progress and Challenges <i>Mr. Kelvin Passfield, Technical Director, Te Ipukarea Society, Cook Islands</i>
1 1 0 0 - 1 1 1 5	BREAK
1 1 1 5 - 1 1 4 5	Laamu Atoll Environmental Sensitivity Index <i>LTC Ahmed Thohir, Principal Director, Administration & Personnel Service (J1), Maldives National Defence Force, Republic of Maldives</i>
1 1 4 5 - 1 2 3 0	Sustainable Ocean Resources Panel Session <i>Moderated by Mr. Russell Smith, Deputy Assistant Secretary for International Fisheries, National Oceanic and Atmospheric Administration, United States of America</i> <i>Panelists include:</i> <i>Mr. Anthony Talouli (SPREP), Mr. Kelvin Passfield (Cook Islands), LTC Ahmed Thohir (Maldives) and Ms. Jill Brandenberger (USA)</i>
1 2 3 0 - 1 3 3 0	LUNCH
1 3 3 0 - 1 4 0 0	Work Group Introduction Session
1 4 0 0 - 1 4 1 5	IUU Fishing Workshop Introduction
1 4 1 5 - 1 5 1 5	IUU Fishing Workshop Activity
1 5 1 5 - 1 5 4 5	BREAK
1 5 4 5 - 1 7 0 0	IUU Fishing Workshop Activity (Continued)
1 8 0 0 - 2 0 0 0	ICEBREAKER

-This page left intentional blank-



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
1**

OPENING CEREMONY

Honorable Douglas E. Sonnek, Deputy Chief of Mission, US Embassy to Fiji, Kiribati, Nauru, Tonga, and Tuvalu



Douglas E. Sonnek is the Deputy Chief of Mission for the Embassy of the United States of America to Fiji, Kiribati, Nauru, Tonga and Tuvalu.

Since July 2014, Doug Sonnek has functioned as the chief operating officer at the US Embassy Suva, responsible for the day-to-day running of the Mission. Prior to taking up this position, he served as Political/Economic Counsellor at the U.S. Embassy in Rangoon, Burma from July 2011 to May 2014, advising policy makers on the full range of political and economic issues affecting U.S.-Burma relations during a period of rapid change in bilateral relations.

In the years prior to his posting in Rangoon, Doug focused on Vietnam – first as the Bureau of East Asian and Pacific Affairs' Vietnam Desk Economics Officer then as Economic Section Chief at the U.S. Consulate General in Ho Chi Minh City – during which time U.S.-Vietnam bilateral trade increased dramatically. Doug's career with the Department of State also took him to Ljubljana, Slovenia as well as Beijing and Shenyang, China, where he specialized in trade and investment issues.

Before joining the State Department, Doug spent three years as a Peace Corps Volunteer, first in the Central African Republic then on the South Pacific island nation of Niue.

Doug graduated from Carleton College in Northfield, Minnesota.

He is accompanied in Fiji by his wife Winnie and their two children.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
1**

OPENING CEREMONY

Honorable Praveen Kumar Bala, Minister for Local Government, Housing Environment, Infrastructure and Transport, Republic of Fiji



He was first elected as a Councilor for Ba Town Council in 1983 and then became the 'Mayor' of Ba Town Council for twelve (12) years i.e. from 1997 until 2009.

He was appointed by Government to the position of Special Administrator for Lautoka City Council from August 1st, 2010 until August 16, 2014.

In July 2013 – August 16, 2014 he was given the responsibility to be the Special Administrator for Ba & Tavua Town Council.

He served as President of the Fiji Local Government Association from 2004 to 2007 [this is an Association of all the Mayors].

He has been actively involved with Municipal Councils for the past twenty two (22) years until he became the Minister for Local Government, Housing and Environment.

And now he is also the Minister for Infrastructure & Transport.

Honourable Parveen Kumar Bala is the Minister for Local Government, Housing, Environment, Infrastructure & Transport.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
1**

THEME LEADER

Mr. Russell Smith, Deputy Assistant Secretary for International Fisheries, National Oceanic and Atmospheric Administration, United States of America



Russell F. Smith III is deputy assistant secretary for international fisheries at NOAA and is responsible for overseeing NOAA's work with other countries to ensure that fish stocks are sustainably managed. He serves as the acting U.S. federal commissioner for both the Western and Central Pacific Fisheries Commission and the International Convention for the Conservation of Atlantic Tunas.

Smith came to NOAA from the office of the U.S. Trade Representative (USTR) where he was the director for International Environmental Policy and Multilateral Environmental Agreements since 2006. He joined USTR in 2002 as a deputy director in the Office of the Free Trade Area of the Americas. Prior to that, he had many years of experience at the U.S. Department of Justice and in private practice.

He holds a Juris Doctor Degree from the University of Michigan and a Bachelor of Arts degree from Yale. Smith is married to Teresa Ferrante, and has two daughters and five granddaughters.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
1**

PRESENTER 1

Mr. Anthony Talouli, Marine Pollution Advisor, South Pacific Regional Environmental Programme

BIO



Anthony Talouli is currently employed by the Secretariat of the Pacific Environment Programme (SPREP) as the Pollution Adviser. His role involves strategy, project coordination, implementation, and management (particularly with respect to the management of terrestrial and marine pollution) as part of the Waste Management and Pollution Control Division at SPREP. Part of this role is managing the marine environment protection aspect of the International Maritime Organisation Technical Cooperation Programme in the region that addresses ship-sourced pollution, including oil, hazardous chemicals, marine debris and plastics. In the region, this work is under the Noumea Convention and its protocols, as well as the Integrated Waste and Pollution Management 2016-2025 (Cleaner Pacific 2025) and the Pacific Oceans Pollution Prevention Programme (PACPOL) Strategy 2015-2020. On a day to day basis, the role involves providing technical advice, support and assistance to member countries particularly with regards to funding and resourcing.

Anthony has an engineering background. He has been at SPREP for the last 9-yrs and previous to that, 10 years in the oil industry with Shell Company.

ABSTRACT

Importance of Environmental Compliance Monitoring and Enforcement in the SPREP Region

In a region with 98% covered by ocean, the health of the marine environment is fundamental to the health of all aspects of the entire Pacific islands region. Compliance, monitoring and enforcement are essential to maintaining the health of this environment. However, for the 2% that is covered by land, the region finds it difficult to provide adequate compliance, monitoring and enforcement surveillance let alone for the 98% covered by ocean.

There are number of environmental issues that are of critical importance requiring compliance with international, regional and national laws.

Marine Pollution Issues

Marine pollution is one of the four major threats to the world's oceans, along with climate change, habitat destruction and over-exploitation of marine resources. Ship-sourced marine pollution such as oil spills, waste and garbage particularly plastics and abandoned, lost discarded fishing gear, wrecks, marine invasive, anti-fouling systems used on ship hulls is of particular concern to our region. All these issues are intergenerational and multi-sectoral global environmental problem with lasting detrimental impacts upon ocean and coastal ecosystems, cultures and livelihoods. Highlighting the importance of increasing global ratification and improving implementation of



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
1**

international standards for vessels is key to moving towards having an international mandatory safety regime for all vessels, particularly including fishing vessels.

Impacts of Marine Debris on Protected Species

The deliberate discharge of non-degradable materials, especially fishing gear and plastics, from vessels is a well-studied threat to protected species, including whales, turtles and seabirds; but little effort is made to ensure compliance with the provisions of MARPOL through awareness-raising or onboard inspections of fishing vessels.

Routine boarding of fishing vessels to inspect storage facilities for potentially hazardous materials and providing awareness-raising materials could promote better compliance with the provisions of international law.

Transport to Remote Locations for Protected Species (PS) Monitoring

A major impediment to the effective monitoring of the populations of protected species such as turtles is the cost of transport to remote breeding locations. The use of military vessels on an opportunistic basis to deliver personnel to remote locations, and the use of aerial surveillance, particularly drones, could significantly improve the state of knowledge of protected species populations in the Pacific Islands region.

Ocean observation, Monitoring and Drivers of Climate

The Pacific Ocean is the major driver of global climate, as evidenced by the current El Nino. The Pacific islands region is highly dependent on global ocean observing efforts such as Argo, the Tropical Pacific Observing System, the Surface Drifter Program, and the Pacific Sea Level Monitoring Program for the monitoring of their oceans. The Tropical Pacific Observing System is also crucial for monitoring and predicting ENSO conditions, and also provides valuable oceanographic and climatology data.

There is little capacity (financial and technical) in the region to conduct basic observations in either coastal or pelagic waters. For example, there is only one wave buoy between Hawaii and Australia/NZ, which is in American Samoa (supported by US NOAA), and the only other wave buoy in the Pacific islands is in Marshall Islands (also supported by NOAA).

Improved monitoring and predictions of marine weather, especially in relation to safety at sea for small-scale fishermen and coastal inundation forecasting are priority areas for action in the region. Assistance in data collection (especially through a ship of opportunity type program), instrument deployment, and capacity building would help remedy this.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
1**

PRESENTER 2

Mr. Kelvin Passfield, Technical Director, Te Ipukarea Society, Cook Islands

BIO



Kelvin's interest in marine ecosystems extends back more than 25 years, to when he was a commercial fisherman in northern Australia. Since then, he has formalized this interest with a degree in fisheries from the Australian Maritime College, and post graduate diploma in marine studies and a master's degree in Marine Affairs from the University of the South Pacific in Fiji.

Kelvin has lived for extended periods in a number of Pacific Island and Asian Countries, including the Cook Islands, Fiji, Samoa, Tuvalu, Maldives and Thailand where he has worked on projects related to marine ecosystems, in both the Indian and Pacific Oceans. His career has included positions with national governments and NGOs, as well as international organisations such as UNEP, UNDP, FAO, and IUCN. His work experience includes:

- Management of fisheries, fishery habitats, and integrated coastal zones;
- Technical aspects of inshore and offshore fisheries including capture, post-harvest processing, pearl oyster mariculture;
- Fisheries livelihoods development and rehabilitation post disaster;
- Utilisation of household, creel, and other surveys to determine the reliance of communities on marine resources, and estimate their economic value;
- Resource surveys, particularly for inshore species including trochus, giant clams, sea cucumbers and pearl oysters
- Seagrass, mangrove, and coral reef ecosystems, and their linkages with terrestrial ecosystems
- Community based management of inshore fisheries, including multi-stakeholder participation, and assisting communities prepare management plans for "managed fishery areas"

Kelvin has developed a strong interest in the sustainable use of natural resources to support livelihoods of coastal communities, in particular those from the small island developing states. He currently lives in Rarotonga, Cook Islands, where he is the Technical Director of the Cook Islands national environmental NGO, Te Ipukarea Society, which is the Birdlife International Partner for the Cook Islands, as well as a member of IUCN, and the GEF CSO Network.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
1**

ABSTRACT

Marae Moana Cook Islands Marine Park: Progress and Challenges

The Cook Islands Marine Park, now known as Marae Moana, was declared by the Prime Minister Henry Puna in August 2012 at the Pacific Island Leaders' Forum held in Rarotonga. Originally encompassing only the portion of the EEZ below 15 degrees south, and following extensive nationwide consultations, the area has now been extended to cover the whole of the Cook Islands EEZ. Since the original declaration, progress has been slow to turn that into a legally designated marine park.

The main reason for the slow progress has been trying to accommodate principles 1 and 2 into the way the marine park will be managed. These principles are:

1. Protection, Conservation and Restoration
2. Sustainable Use to Maximise Benefits

The presenter will elaborate on progress in general on operationalising the marine park, and also on the efforts to reconcile these 2 principles with the various stakeholders.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
1**

PRESENTER 3

LTC Ahmed Thohir, Principal Director, Administration & Personnel Service (J1), Maldives National Defence Force, Republic of Maldives

BIO



Lieutenant Colonel Ahmed Thohir was born on 21st November 1971 in S. Hithadhoo, the capital of Addu City which happens to be the southernmost atoll of Maldives. Lieutenant Colonel Thohir completed his secondary education at English Preparatory and Secondary School, Male, Maldives. After schooling Lieutenant Colonel Thohir was called by the Maldives National Defence Force for the compulsory national service then. He joined Maldives National Defence Force as a Private on 4th February 1992.

In 1997 Lieutenant Colonel Thohir completed a Diploma in Computer Studies in India and started his first degree at University of Canberra, Australia in 1998. He graduated in 2000 with Bachelor of Information Technology. Lieutenant Colonel Thohir completed Master of Business Administration with Specialization in Information System at University of Southern Queensland, Australia in 2008. He also holds a Master's degree in Defence Strategic Management from Kothalawala Defence University, Sri Lanka.

In his military career, Lieutenant Colonel Thohir has completed a number of training abroad which includes Young Officer Signal Course from Military College of Signals, Pakistan, Instructional Techniques Officers Course from Malaysia, and Communication Training in Establishing Early Warning System in South Korea and Defence Services Command and Staff Course from Sri Lanka.

During the past 22 years of service Lieutenant Colonel Thohir has held many command and staff appointments. He is currently the Principle Director of Administration and Personal Service, (J1) at Integrated Headquarters of Maldives National Defence Force. Prior to that he was the Director of Service Corps. He also held the post of Commanding Officer of Research and Development Wing of Maldives National Defence Force. Command appointments that Lieutenant Colonel Thohir held in the past include, Officer In-Charge of IT Department, Deputy Officer Commanding of Communication Electronics and Information Technology Service, Officer Commanding of Communication Electronics and Information Technology Service and Deputy Director, Strategic Communication Department of Ministry of Defence.

Lieutenant Colonel Thohir is married to Mrs. Aminath Shifza and is blessed with a daughter and a son.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
1**

ABSTRACT

Laamu Atoll Environmental Sensitivity Index

The island nation of Maldives is an archipelago comprising 1,190 low-lying coral islands scattered across the equator, in groups of 26 naturally occurring atolls which are divided into 20 administrative regions. The One and a Half Degree Channel is the broad channel that separates Haddhunmathi Atoll (Laamu Atoll) and Huvadhu Atoll, and it is one of the broadest channels between the atolls of Maldives. It is also one of the best fishing locations in the regions of Asia/Pacific. However, there is no emergency plan in place which can be used to prioritize the environmental response areas susceptible to oiling. Environmental Sensitivity Index (ESI) maps have been an integral component of oil-spill contingency planning and response since 1979. With the aid of United States Government, an agreement was signed between the United States Army Corps of Engineers and Maldives National Defence Force to study Laamu Atoll Environmental Sensitivity Index. The project was conducted in three phases, which included research on the atolls that are on north and south of the One and Half Degree Channel. The research was mainly focused in developing an ESI map atlas of Laamu Atoll that would represent details of shoreline characteristics, coastal resources, biological resources, sensitive shorelines, and human use resources that are susceptible to the impacts of oiling. By the end of the project, a total of 44 islands were visited by the team and thousands of resources were collected during the process. The final product consists of Both Digital and Hardcopy Map Atlas (containing field photos, species list), ESI GIS Database and GPS Data Dictionary that is vital for first responders to prioritize disaster management efforts, clean-up requirements, and biological/human/coastal vulnerabilities and to prepare the Maldives Government with an environmental strategy to respond to an oil spill impacting the Laamu Atoll.

-This page left intentional blank-



REGIONAL
ENVIRONMENTAL
SECURITY FORUM

DAY 2

Co-Sponsored by: | Republic of Fiji Military Forces and the U.S.
Pacific Command

-This page left intentional blank-

AGENDA

DAY 2 - PROTECTING THE COASTAL ZONE



WEDNESDAY, 25 MAY 2016

0 9 0 0 - 0 9 0 5	Master of Ceremony Administrative Remarks
0 9 0 5 - 0 9 1 5	Introduction to <i>Protecting the Coastal Zone</i> Theme <i>Dr. Sangeeta Mangubhai – Fiji Country Director, Wildlife Conservation Society</i>
0 9 1 5 - 0 9 4 5	Coastal Marine Spatial Planning <i>Ms. Nicole Griffin, Environmental and Energy Manager, U.S. Marine Corps Forces, Pacific, United States of America</i>
0 9 4 5 - 1 0 1 5	Locally Managed Marine Areas (LMMAs): A Home Grown and Globally Recognized Environmental Solution <i>Mr. Alifereti Tawake, Council Chair & Technical Advisor, Locally Managed Marine Area International Network, Republic of Fiji</i>
1 0 1 5 - 1 0 4 5	BREAK
1 0 4 5 - 1 1 1 5	Coastal Climate Adaptation <i>Mr. Marc Wilson, Global Environment Facility Pacific - Ridge to Reef Regional Programme Coordinator, Geoscience Division, Secretariat of the Pacific Community</i>
1 1 1 5 - 1 2 0 0	Protecting the Coastal Zone Panel Session <i>Moderated by Dr. Sangeeta Mangubhai – Fiji Country Director, Wildlife Conservation Society</i> <i>Panelists include:</i> <i>Ms. Nicole Griffin (USA), Mr. Alifereti Tawake (Fiji), and Mr. Marc Wilson (SPC)</i>
1 2 0 0 - 1 3 0 0	LUNCH
1 3 0 0 - 1 4 3 0	Drive to Sigatoka Sand Dunes National Park
1 4 3 0 - 1 6 3 0	SITE VISIT
1 6 3 0 - 1 8 0 0	Return to RESF Venue

-This page left intentional blank-



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
2**

THEME LEADER

Dr. Sangeeta Mangubhai, Fiji Program Director, Wild Life Conservation Society



Dr. Sangeeta Mangubhai joined WCS-Fiji in January 2014 as the Deputy Director, and was promoted in December to the Director's position. She has worked on marine science and conservation in Australia, East Africa, Indonesia and the South Pacific. She completed her Ph.D. in 2007 through Southern Cross University in Lismore, Australia, looking at reproduction and recruitment of corals in Kenya. Since then she has been working on designing marine protected areas, marine spatial planning, community fisheries, environmental policy, and climate change. She is a specialist in designing monitoring programs to understand impacts of disturbances on coral reef communities, and the return of investment of conservation strategies. She is currently an editor for the journal *Pacific Conservation Biology*, an adjunct scientist for New England Aquarium, and co-chair for Ecosystem Services Partnerships for Oceania.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
2**

PRESENTER 1

Ms. Nicole Griffin, Environmental and Energy Manager, U.S. Marine Corps Forces, Pacific, United States of America

BIO



Ms. Griffin attended the University of Hawaii at Manoa (UH) and the University of Illinois at Chicago (UIC). She received her Bachelor's Degree in Geological Sciences from UIC in 1991. Ms. Griffin was then employed as contaminant hydrogeologist for a year in Chicago, Illinois, before relocating back to Honolulu, Hawaii. The early part of her career was spent on developing her expertise in island hydrogeology (assessment and remediation of basal and perched aquifers and related human health and ecological risk assessment of watersheds/related surface water bodies). She also completed environmental compliance and due diligence projects under numerous environmental protection laws. Later, Ms. Griffin advanced her capabilities in National Environmental Policy Act (NEPA) Environmental Assessments (EAs) and Environmental Impact Statements (EISs) for terrestrial, nearshore and pelagic environments, with multiple and competing uses. After being promoted to senior management in consulting, Ms. Griffin expanded her environmental management capabilities working for the Environmental Compliance Branch of Pacific Air Forces (PACAF). She was charged with ensuring that the bases in PACAF were able to meet their legal and host nation agreement environmental responsibilities in a constrained financial environment. In 2010, Ms. Griffin became the Environmental and Energy Manager for Marine Forces of the Pacific (MARFOPAC). For the first two years, Ms. Griffin had programmatic and financial responsibilities for the environmental and energy/utilities programs of MARFORPACs 11 bases. After the stand-up of the Marine Corps Installation Command (MCICOM) in 2012, Ms. Griffin transitioned her installation responsibilities to MCICOM, and continues to work on improving environmental compliance and energy conservation for the Marine Forces. Since 2010, Ms. Griffin has also been the Department of Defense representative on the Pacific Islands Regional Planning Board. This board is charged with advancing the U.S. National Ocean Policy at the Regional level by implementing Coastal Marine Spatial Planning (CMSP).



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
2**

ABSTRACT

Coastal Marine Spatial Planning

The United States Marine Corps and Navy are participating in regional ocean planning efforts with other Federal and State agencies in the Pacific. U.S. Marine Forces of the Pacific has provided a Department of Defense (DoD) representative on the Pacific Islands Regional Planning Board (PIRPB). This board is charged with completing Coastal Marine Spatial Planning (CMSP) to further the National Ocean Policy (NOP) as directed by Executive Order 13547. There are several goals in the NOP - ecosystem based management, coastal resiliency/climate change, economic growth, access, security, cultural/heritage preservation, increased inter-agency coordination and reducing conflicting uses. Regions define regional goals, determine objectives which define the way the goals are met and measured then create a Coastal Marine Spatial Plan. Key points to making it work are inter-agency cooperation and stakeholder (public, non-government organization, etc.) participation. Because it is an unfunded mandate, we have had to find ways to provide services "in-kind" and make things work. American Samoa is our first sub-region in the Pacific to start and will develop the prototype plan for the region. DoD has equities in this planning, assuring access and security for their training as well as others. This is a success story in working together and legally combining limited resources to try to improve and protect our ocean.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
2**

PRESENTER 2

**Mr. Alifereti Tawake, Council Chair & Technical Advisor, Locally Managed Marine Area
International Network, Republic of Fiji**

BIO



Alifereti Tawake, a community advocate and a resource management specialist, grew up on Kadavu Island (Fiji). He has worked on natural resource, fisheries, climate change, conservation, sustainable development and management issues for over two decades as coastal communities were increasingly facing challenges in meeting their food and income in the face of resource decline and few alternative livelihoods. His tireless support of communities in Fiji and globally to better manage the land and sea was recognized in 2015 as the first Fijian and Pacific Islander to receive the WWF's Duke of Edinburgh Conservation Medal. Mr. Tawake is one of the founder and the current Chair of the Locally Managed Marine Areas (LMMA) Network, a growing network of community practitioners and leaders globally who have demonstrated over decades that the most effective way to conserve the world's natural resources is by empowering communities.

His pioneering work starting with Verata district have spread to more than 450 communities that make of Fiji LMMA Network today also won him the international Whitley Foundation (UK) Award for People and the Environment in 2004. LMMA Network today also exists in the Philippines, Indonesia, Papua New Guinea, Micronesia, Palau, and the Solomon Islands and with more island nations considering launching similar networks. The LMMA movement in turn has sparked interest globally, with requests for support from Southeast East Asia, Africa and Central and South America. Alifereti is also a Technical Advisor to these country networks, the IUCN Oceania as a member of the IUCN-WCPA and is completing his PhD in Environmental Science at James Cook University.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
2**

ABSTRACT

Locally Managed Marine Areas (LMMAs): A Home Grown and Globally Recognized Environmental Solution

Coastal communities worldwide are facing challenges to food security and are vulnerable to disasters and climate change impacts. Local marine management undertaken by communities has often achieved benefits that may have eluded top-down MPAs. In Fiji, locally managed marine areas (LMMAs) have proliferated and a growing network of communities, managers and practitioners strengthened since 2000. Today, more than 450 coastal communities are collectively managing about 79% of Fiji's inshore marine areas and experiencing an improvement in marine catches and household incomes. This homegrown solution and approaches are built on a unique feature of the region - customary tenure and resource access - and often making use of traditional knowledge and governance. LMMAs in the Asia-Pacific are implemented by over 600 communities spanning 17 independent countries and territories, with more than 130,000 sq.km representing a unique global achievement. LMMAs also exists in Africa and other regions around the world. The spread and endurance of LMMAs is attributable to communities' perceptions that benefits are very likely to be achieved.

The main innovation that has supported the proliferation of LMMAs is the operation of clusters of communities supported by regional, national and sub-national umbrellas or social networks. In essence, LMMAs serve as building blocks for building resilience, climate change adaptations, integrated island management and sustainable development by communities. For significant environmental or fisheries benefits to be realized, communities need to take a more holistic approach beyond just MPAs.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
2**

PRESENTER 3

**Mr. Marc Wilson, Global Environment Facility Pacific - Integrated Water Resource Management
Regional Project Manager, Geoscience Division, Secretariat of the Pacific Community**

BIO



Marc Wilson joined SOPAC as the Regional Program Manager for the GEF-IWRM program in January 2009. He holds an MSc and has worked as a natural resource researcher, manager and development aid consultant in over 30 countries in many regions of the world. He has lived and worked for extended periods in both Melanesia and Polynesia. He has worked as a CEO in both the public and private sectors and has extensive consulting experience with national, regional and international organizations. He established and was the foundation Director of the Australian Maritime College's Graduate School of Marine Resource Management and has published widely in natural resource development and management. He has a particular interest in integrated management of natural resources and the challenges of institutionalizing real stakeholder participation in decision making and in developing non-government stakeholder participation capacity. In 2002 – 2007, he was the Australian Team Leader for the AusAID funded Tonga Integrated Fisheries Management Project and prior to joining SOPAC he worked as a strategic planning adviser for RAMSI in the Solomon Islands.

ABSTRACT

Coastal Climate Adaptation

Abstract forthcoming



Fiji's First National Park: Sigatoka Sand Dunes National Park

In a country blessed with scenic beauty, the Sigatoka Sand Dunes stand out as one of the more unique wonders of Fiji.

Dune systems are rare in Pacific Islands and the Sigatoka Sand Dunes is one of a kind. This distinctive landscape covers an area of 650 acres and comprises a series of parabolic dunes of various ages and activities

The Dunes are located directly west of the mouth of the Sigatoka River, the second largest river in Fiji. They are the product of fluvial erosion in the coastal hinterlands and coastal dune forming processes.

In July 1987, 390 acres of the Sigatoka Sand Dunes became Fiji's first National Park and its management handed to the National Trust of Fiji.

The Park is home to a myriad of native and introduced flora and fauna. This thriving ecosystem houses many birds, insects, skinks, snakes, geckos and fruits bats.

The Sigatoka Sand Dunes are famous for their rich historical treasures including clues to man's first arrival in Fiji. Evidence of the past is clearly visible throughout the dune system as pottery scatters, stone tools, human remains and other archaeological relics continue to be unearthed by natural processes.

The Sigatoka Sand Dunes National Park exhibits a rich combination of geomorphological, ecological, cultural and aesthetical attributes making it an excellent centre for recreation, research and education.

Today, the National Trust of Fiji is working closely with UNESCO to fully inscribe the Sigatoka Sand Dunes National Park as a World Heritage Site.

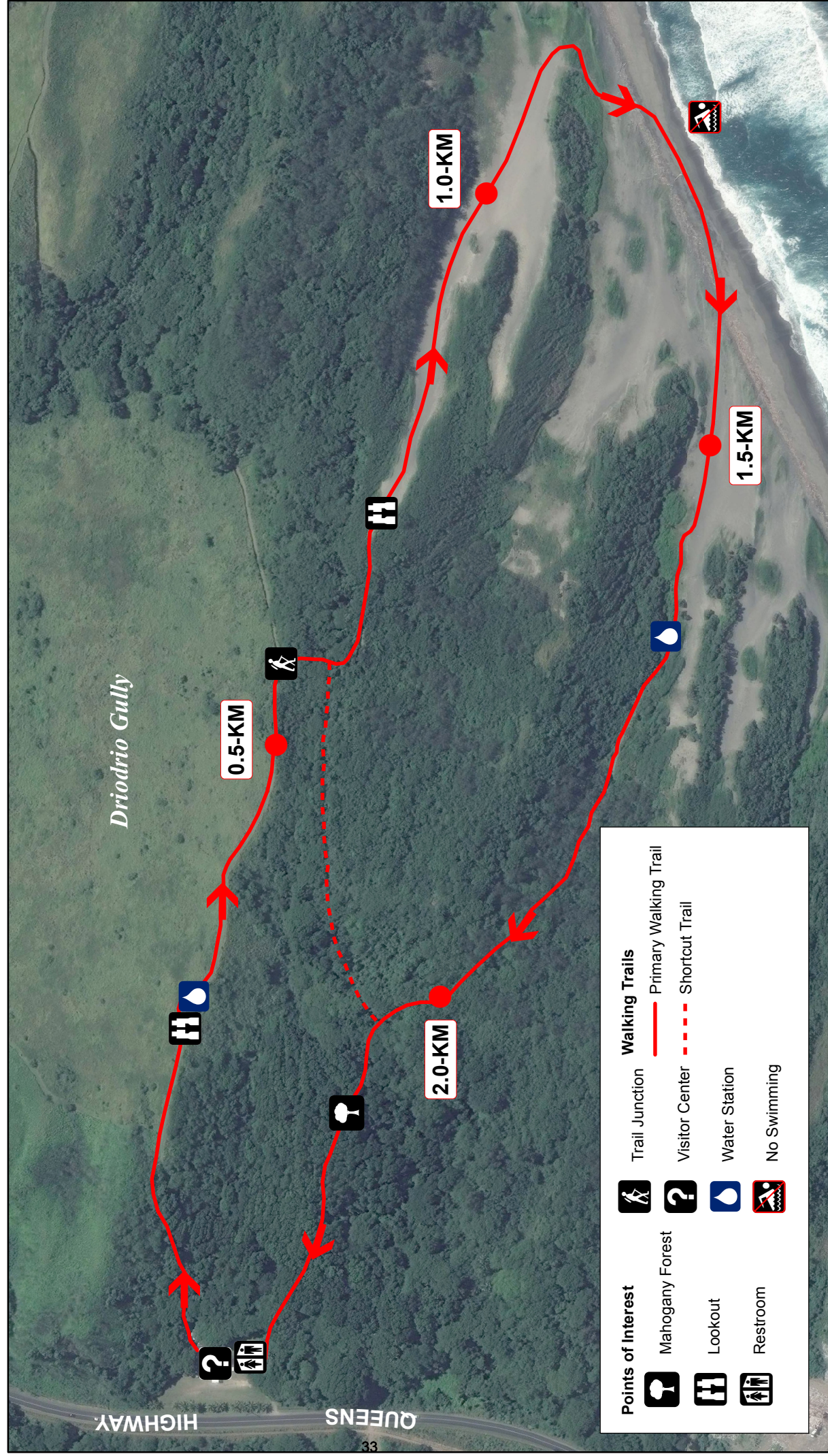
For more information on the Sigatoka Sand Dunes National Park or any other National Trust of Fiji managed sites, please visit our website: www.nationaltrust.org.fj

-This page left intentional blank-



REGIONAL ENVIRONMENTAL SECURITY FORUM TRAIL MAP

Sigatoka Sand Dunes National Park



0 0.05 0.1 0.2 Kilometers

Image Source: Digital Globe
Image Date: March 2015

-This page left intentional blank-



REGIONAL
ENVIRONMENTAL
SECURITY FORUM

DAY 3

Co-Sponsored by: | Republic of Fiji Military Forces and the U.S.
Pacific Command

-This page left intentional blank-

AGENDA

DAY 3 - RESILIENCY TO EXTREME AND FREQUENT WEATHER EVENTS



THURSDAY, 26 MAY 2016

0 9 0 0 - 0 9 0 5	Master of Ceremony Administrative Remarks
0 9 0 5 - 0 9 1 5	Introduction to Resiliency to Extreme and Frequent Weather Events Theme <i>Commodore Ian Murray, Royal Australian Navy, J1/J4, Director General Support, Headquarters Joint Operations Command, Australia</i>
0 9 1 5 - 0 9 4 5	2016 Cyclone Winston: Post-Disaster National Assessment <i>Mr. Luke Koroisave, Chief Economic Planning Officer, Sectoral Regional Division, National Development & Strategic Planning, Ministry of Finance, Republic of Fiji</i>
0 9 4 5 - 1 0 1 5	2011 Tuvalu and Tokelau Drought <i>LTCOL Terry McDonald, Director of Strategic Development, Army General Staff, New Zealand Defence Force, New Zealand</i>
1 0 1 5 - 1 0 4 5	BREAK
1 0 4 5 - 1 1 1 5	American Samoa 2009 Tsunami - Then and Now <i>Mr. Iuniasolua T. Savusa, Director, Department of Homeland Security, American Samoa</i>
1 1 1 5 - 1 2 0 0	Resiliency to Extreme and Frequent Weather Events Panel Session <i>Moderated by Commodore Ian Murray, Royal Australian Navy, J1/J4, Director General Support, Headquarters Joint Operations Command, Australia</i> <i>Panelists include:</i> <i>Mr. Luke Koroisave (Fiji), LTCOL Terry McDonald (New Zealand), and Mr. Iuniasolua Savusa (American Samoa)</i>
1 2 0 0 - 1 3 0 0	LUNCH
1 3 0 0 - 1 3 1 5	Work Group Activity 1 Introduction
1 3 1 5 - 1 4 1 5	Work Group Activity 1 - Picture Prompt
1 4 1 5 - 1 4 4 5	Work Group Activity 1 Results
1 4 4 5 - 1 5 1 5	BREAK
1 5 1 5 - 1 5 3 0	Work Group Activity 2 Introduction
1 5 3 0 - 1 6 0 0	Work Group Activity 2 - Cups
1 6 0 0 - 1 6 3 0	Work Group Activity 2 Results

-This page left intentional blank-



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
3**

THEME LEADER

Commodore Ian Murray, Royal Australian Navy, J1/J4, Director General Support, Headquarters Joint Operations Command, Australia



CDRE Ian Murray was born in Sydney in 1967. He attended Trinity Grammar School in Sydney, before joining the Royal Australian Navy in January 1986 as a Maritime Logistics Officer. In 1988 he graduated from the Australian Defence Force Academy as a member of the first class to be wholly trained there.

CDRE Murray's service at sea with the Navy has included postings as the Maritime Logistics Officer of the hydrographic ship HMAS FLINDERS, and then as commissioning Deputy Maritime Logistics Officer of HMAS ANZAC and Maritime Logistics Officer of HMAS NEWCASTLE. During his time onboard NEWCASTLE he deployed to the Northern Arabian Gulf in 2002 enforcing United Nations sanctions against Iraq as part of OPERATION SLIPPER.

Ashore as junior officer CDRE Murray served in the Naval Establishment at HMAS CAIRNS, as the Integrated Logistics Support Manager for Oberon Class submarines, as a career manager within Naval Officers Postings, and as the J1(Personnel) in Headquarters Australian Theatre. Upon promotion to Commander, CDRE Murray served as the Fleet Human Resource Manager at the Fleet Headquarters in Sydney from 2003 to 2005. He then undertook a two year overseas posting, from 2006 to 2007, with the United Kingdom's Ministry of Defence in Bath, working on Supply Chain improvement projects in the Defence Equipment and Support organisation.

In 2008 he was appointed as the Director of Navy Logistics in Navy Strategic Command, following promotion to Captain. In 2009 he joined Headquarters Joint Operations Command as the Director of Logistics Operations (J43). During that posting, in 2010, he led a joint team to the UAE and Afghanistan to redesign the Australian Defence Force logistic support arrangements. In 2011 CDRE Murray returned to the position of Director of Navy Logistics in Navy Strategic Command.

CDRE Murray is a graduate of the 2013 Australian Defence Strategic Studies Course. Upon completion of the course in December 2013, he was promoted to Commodore and assumed his current position as Director General Support (J1/4) at Headquarters Joint Operations Command outside Canberra.

Academically CDRE Murray has been awarded a Bachelor of Arts (Econ), a Graduate Diploma in Human Resource Management, a Master of Defence Studies, a Master of Arts and a Master of Business Administration. As well as graduating from the Defence Strategic Studies Course in 2013, CDRE Murray was the last Navy graduate from the Army Command & Staff College at Fort Queenscliff in 1999. CDRE Murray is the Chairman of the Navy Canteen Board; he is a Certified Professional of the Australian Human Resources Institute, a Fellow of the Chartered Institute of Logistics and Transport Australia and a Graduate Member of the Institute of Australian Company Directors.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
3**

PRESENTER 1

Mr. Luke Koroisave, Chief Economic Planning Officer, Sectoral Regional Division, National Development & Strategic Planning, Ministry of Finance, Republic of Fiji

BIO



Mr. Koroisave received his early education at Delana Methodist High School from 1982 – 1989 before he joined the University of the South Pacific and graduated with a Bachelor of Arts (Economic & Demography) in 1995. He also obtained a Secondary Teacher Training Certificate at the Fiji College of Advance Education in 1995, and taught for seven years with the Ministry of Education before joining the Ministry of National Planning in 2002. Mr. Koroisave has risen up the ranks at the Ministry of National Planning, and has now attained the position of Chief Economic Planning Officer. During these years, he also had the privilege to be seconded to the Ministry of Rural and Maritime Development and Natural Disaster Management on the implementation of the Integrated Rural Development Framework. In 2014, Mr. Koroisave obtained a Masters of Public Policy specializing in Social Policy from the Australia National University, Canberra.

Mr. Koroisave's expertise lies in research skills, team collaboration, and idea development. He creates policy formulation, data development, statistical analysis, and evaluates and monitors capital projects. In addition to all of this, Mr. Koroisave's core responsibilities are to coordinate National and Divisional Strategic planning; supervise and monitor capital expenditure projects; coordinate Tender process; and submission of quarterly acquittals for projects implemented by the Office of the Divisional Commissioners. Mr. Koroisave has had many work achievements, which include formulation of capital projects, development of strategic plans, and other government initiatives.

Mr. Koroisave has attended many workshops, seminars and conferences locally, as well as regionally and international. Mr. Koroisave's other interests are technology, regional and global economics, politics, and environmental issues. He is married with four lovely children, and he likes all types of sports.

ABSTRACT

2016 Cyclone Winston: Post-Disaster National Assessment

The three thematic areas for Tropical Cyclone Winston relief assistance were 1) meeting basic needs (food, water, clothing, shelter and health); 2) restoring lifeline services; and 3) economic recovery. The guiding principles for implementing the Fijian government relief assistance were: Speed; Cooperation; Communication; Economics; Concentration; Flexibility; and Accountability. This presentation will highlight the Government of Fiji's best practices and lessons-learned to conducting a Post-Disaster National Assessment following the 2016 storm.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
3**

PRESENTER 2

Lt Col Terry McDonald, Director of Strategy Development, Army General Staff, New Zealand Defence Force, New Zealand

BIO



Lieutenant Colonel Terry McDonald, Corps of Royal New Zealand Engineers, is currently serving in Headquarters New Zealand Defence Force, Army General Staff as the Director of Strategy Development.

Lieutenant Colonel McDonald has served in multiple command appointments within the Corps of Royal New Zealand Engineers and in a number of staff appointments in various headquarters. He has deployed multiple times on Humanitarian Assistance and Disaster Relief missions into the South Pacific including as the New Zealand Commander Landing Forces, in Nuiatoputapu in Tonga and the mission Commander Landing Forces in Vanuatu for the multi-national Exercise Pacific Partnership 2011. He also led the NZDF emergency response to the island nation of Tuvalu in October 2011.

Lieutenant Colonel McDonald has had operational duty serving with the Truce Monitoring Group in Bougainville in 1996. He deployed to Operation Enduring Freedom (Afghanistan) in late 2002 as an Engineer Reconnaissance Officer, to the International Security Assistance Force (Afghanistan) Headquarters in early 2003 as an Engineer staff officer and United Nations Mission in Sudan in 2009 as the Chief of military plans. Lieutenant Colonel McDonald was awarded the New Zealand Chief of Army's commendation for his service in Afghanistan and a United Nations Force Commanders Commendation for his service in Sudan. Lieutenant Colonel McDonald attended the United States Command and General Staff College, Fort Leavenworth in 2012 where he earned his Master's Degree.

Lieutenant Colonel McDonald is married to Lisa, they have an 8 year old daughter and a 4 1/2 year old son. He enjoys recreational cycling and running, however, only in good weather. He is also an avid history reader.

ABSTRACT

2011 Tokelau and Tuvalu Drought Response

Through 2011 the Pacific was subject to a severe La Nina weather event which impacted regional rainfall and led to two South Pacific countries declaring a state of emergency over prolonged drought conditions. The atoll nations of Tokelau and Tuvalu, both with little or no subsurface water, contend with climate change issues, but also rely on reverse osmosis and rainfall for potable water. By October 2011, the situation in Tokelau was serious, as such, the New Zealand and United States governments deployed military forces to the region to support the 1500 residents across the atolls of Atafu, Nukunonu and Fakaofu. At the same time in Tuvalu without normal rainfall for six months,



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
3**

the New Zealand and Australian governments with the Red Cross and other agencies deployed to support their government to provide water on the islands of Funafuti and Nukulaelae.

The type of situation and associated international response is becoming more the norm with increasing frequency in the Pacific; what sets this situation apart is not the immediacy of the emergency, but rather the slow ebb towards the crisis. Regardless of the locale or scale, the events in late 2011 provide lessons to military forces and other agencies that remain similar irrespective of the situation. The presentation will provide a brief overview of the deployments into Tokelau and Tuvalu focusing on lessons and actor interactions in three key areas: Humanitarian Assistance as a system of systems, unpacking the problem and information in a vacuum.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
3**

PRESENTER 3

Mr. Iuniasolua T. Savusa, Director, Department of Homeland Security, American Samoa

BIO



Iuniasolua T. Savusa is a native of American Samoa has been involved with maintaining and securing the United States for over 40-years. Savusa first enlisted as a soldier in the United States Army initially serving as an infantry rifleman and made his way up to Command Sergeant Major (CSM) of Unified Combatant Command. He served four combat tours in Iraq and Afghanistan as CSM of the Combined Joint Task Force in Baghram, Afghanistan and CSM of the International Security Assistance Force (NATO) holding dual roles as the CSM of the United States Force-Afghanistan, Kabul Afghanistan. Senior Enlisted Leader of the Pacific Command at Camp Smith, HI was CSM (Ret.) Savusa's last leadership role prior to leaving the U.S. Army.

Savusa graduated from all Noncommissioned officers education system including the Sergeant Majors' Course, holds an Associate of Arts degree from Kemper Military School and College and is currently working on a Bachelors' of Science in Business Management.

Since 2013, Savusa is currently serving as Director of the American Samoa Department of the Homeland Security. Savusa has served as a State Representative for a Major Disaster Declaration for Severe Flooding in the Territory as well as managed and directed activities of a plane crash and search and rescue operations.

Savusa has been promoting emergency management as a community shared responsibility and integrating the private sector into the local emergency response and fostering sustainable and resilient communities in American Samoa. Additionally, Savusa is appointed by statute as the Territory Coordinating Officer and Chairman for the Human Trafficking Task Force.

ABSTRACT

American Samoa 2009 Tsunami - Then and Now

Abstract forthcoming

-This page left intentional blank.-



REGIONAL
ENVIRONMENTAL
SECURITY FORUM

DAY 4

Co-Sponsored by: | Republic of Fiji Military Forces and the U.S.
Pacific Command

-This page left intentional blank-

AGENDA

DAY 4 - REGIONAL PROJECT COLLABORATION



FRIDAY, 27 MAY 2016

0 9 0 0 - 0 9 0 5	Master of Ceremony Administrative Remarks
0 9 0 5 - 0 9 2 0	Regional Project Collaboration Introduction and Process Overview <i>Mr. Christopher Sholes, Environmental Program Manager, US Pacific Command, United States of America</i>
0 9 2 0 - 1 0 0 0	Regional Project Collaboration Session 1: Brainstorming
1 0 0 0 - 1 0 4 0	Regional Project Collaboration Session 2: Idea Prioritization & Detailing
1 0 4 0 - 1 1 1 0	BREAK
1 1 1 0 - 1 2 0 0	Regional Project Collaboration Outbriefs
1 2 0 0 - 1 3 0 0	LUNCH
1 3 0 0 - 1 4 3 0	Environmental Security Forum After-Action Review by Country <i>(Moderated by Col Kevin Thomas, Civil Engineer, US Pacific Command, United States of America)</i>
1 4 3 0 - 1 5 0 0	BREAK
1 5 0 0 - 1 5 2 0	Closing Ceremony Comments by: <i>Brigadier General Jeffrey L. Milhorn, Commanding General, Pacific Ocean Division, U.S. Army Corps of Engineers, United States of America</i> and <i>Rear Admiral Viliame Naupoto, Commander, Republic of Fiji Military Forces, Republic of Fiji</i>
1 5 2 0 - 1 5 4 5	Certificate, Photo and CD Distribution

-This page left intentional blank-



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
4**

THEME LEADER

Mr. Christopher Sholes, Environmental Program Manager, US Pacific Command, United States of America



Chris Sholes is the Environmental Security Program Manager within the USPACOM Engineering Division. His duties include overseeing environmental compliance for bilateral exercises (e.g. Talisman Saber), and planning the Pacific Environmental Security Conferences and international environmental workshops. He also monitors environmental Impact assessments developed by the service components and coordinates projects with State of Hawaii offices and others on environmental matters. His previous experience includes project management of various environmental remediation projects throughout Hawaii and the Pacific

including soil and water remediation and UXO clearance in Saipan, Guam, Japan and Korea, Palmyra and other remote islands. He has five degrees including two from the London School of Economics in International Relations and Economics and an MS in Systems Engineering from the Naval Postgraduate School. He is a certified contracts manager (CPCM) and certified project manager (PMP) from the respective US national certifying organizations.

Since its inception in 2010 he has developed the Environmental Security Program as a means for the U.S. Army Corps of Engineers, IWR, 130th Prime Power and other DoD components to engage internationally and innovatively, furthering the USPACOM engagement strategy to enhance partner nation resilience, capacity building, facilitate interoperability, and build trust and access for occasions of mutual benefit.

The goal of the USPACOM ENSEC Engagement Program, incorporating the Commander USPACOM's lines of operation, is to strengthen relationships and partner-nation capacity development. This program, as part of the Defense Environmental International Cooperation (DEIC) program, is an effective and cost-efficient way to also support the SECDEF's Security Cooperation Guidance goals of: (i) Build defense relationships that promote specific U.S. security interests, (ii) Develop allied and friendly military capabilities and willingness for coalition operations with the U.S. military, and (iii) Improve force interoperability.

From the Pacific Environmental Security Conference series, USPACOM has spun-off oil spill response workshops in South and Southeast Asia, is planning an SVP approach to waste management solutions, has funded alternative energy solutions to remote location, and established environmental stewardship practices with Australia and other partner nations.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
4**

CLOSING CEREMONY

Brigadier General Jeffrey L. Milhorn, Commanding General, Pacific Ocean Division, U.S. Army Corps of Engineers



On July 18, 2014, Brigadier General Jeffrey L. Milhorn became the 31st Commanding General and Division Engineer for the Pacific Ocean Division, U.S. Army Corps of Engineers.

As the Division Engineer, he is responsible for a mission that includes engineering design, construction and real estate management for the Army in Hawaii, Army and Air Force in Alaska, and for all Department of Defense Services and Agencies in Japan, the Republic of Korea, and Kwajalein Atoll, Marshall Islands. Pacific Ocean Division administers the Corps' federal water resource development program and waters and wetlands regulatory programs in Alaska, Hawaii, American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands. The Division program includes the \$10 billion multi-year Korea Transformation Program and the \$15.8 billion multi-year U.S.-Japan Defense Policy Review Initiative. Pacific Ocean Division also supports U.S. Pacific Command and U.S. Army Pacific's Theater Security Cooperation strategies, Humanitarian Assistance & Disaster Response Program, and Civil-Military Emergency Preparedness with projects throughout the Indo-Asia-Pacific region.

Prior to his present USACE command, Brigadier General Milhorn served as the Chief of Staff, 1st Cavalry Division at Fort Hood, Texas, and as Assistant Chief of Staff to the Commander of the International Security Assistance Force in Kabul, Afghanistan.

Brigadier General Milhorn also served in a variety of command and staff assignments both in the Continental United States and overseas. Command positions include: Deputy Commanding General, Joint Task Force 505 (Nepal Earthquake) Operation Sahayogi Haat; Commander, 130th Engineer Brigade at Schofield Barracks, Hawaii; Commander, 173rd Brigade Special Troops Battalion (Airborne) at Bamberg, Germany, and Operation Enduring Freedom in Jalalabad, Afghanistan. He served as Deputy Chief of Operations, U.S. Army Europe in Heidelberg, Germany, and as a Joint Staff Officer in the National Geospatial – Intelligence Agency in Chantilly, Virginia. He also served as a Project Engineer at Fort Leavenworth, Kansas, while assigned to the Kansas City District, U.S. Army Corps of Engineers.

Brigadier General Milhorn is a Distinguished Military Graduate from the University of Florida, earning a Bachelor of Science in Civil Engineering in 1990. He holds a master's degree in Construction Engineering & Project Management from the University of Texas at Austin, and is a National Security Fellow of Harvard University in Cambridge, Mass. He is a registered Professional Engineer in Missouri.



Oceania Regional Environmental Security Forum Biographies & Presentation Abstracts

**DAY
4**

CLOSING CEREMONY

Rear Admiral Viliame Naupoto, Commander, Republic of Fiji Military Forces, Republic of Fiji



Commodore Viliame Naupoto has been a career Military Officer since 1982 when he joined the Republic of Fiji Military Forces and served in the Fiji Navy. During his military career, he has trained widely in Military Tactics, Leadership & Management from Military institutions in New Zealand, Australia, United Kingdom and the United States of America.

He has held senior military appointments within the Republic of Fiji Military Forces, such as the Commander Fiji Navy, Director Finance & Logistics and currently the Commander.

Commodore Naupoto has served 25 years as career officer in the RFMF until he was seconded to the Civil Service in 2007 as Director Immigration. He was later appointed as the Permanent Secretary for the Ministry of Fisheries and Forests in 2009. He resigned from the appointment and was sworn in as the Minister for Youth and Sports in 2012. He then relinquished the ministerial portfolio prior to the general elections in September 2014.

During his posting to the civil service, he was also appointed to various government statutory bodies such as the Chairman of the Fiji Trade and Investment Board (FTIB), Fiji Pine Group and board member of the Fiji Audio Visual Commission.

Commodore Naupoto rejoined the Republic of Fiji Military Forces on 2nd February 2015 and was appointed as Chief of Staff Headquarters RFMF. On Saturday 1st August 2015, he was appointed the Acting Commander RFMF for three months. The Acting appointment has been extended to a further three months which will expire in December 2015.

-This page left intentional blank.-

FIJI

PACIFIC OCEAN





DENARAU
Island • FIJI

NADI BAY

PORT DENARAU

PORT DENARAU MARINA

The Western
Denarau Islands
Resort & Spa

Sofitel Fiji Resort & Spa

Fiji Beach Resort & Spa
Managed by Hilton

Big Bula
Inflatable
Water Park

Denarau
Mini Golf &
Bungee

Denarau Golf
& Racquet Club

Sheraton
Denarau Villas

Port Denarau Retail
& Commercial Centre

Future Hotel Site

Sheraton Fiji Resort

Radisson Blu Resort Fiji

Denarau 18 Hole Golf Course

Worldmark South Pacific Club by Wyndham

Future Hotel Site

Golf Terrace
Apartments

Main Entrance

Essential Services

- P** Police
- F** Fire Services
- +** Medical Services
- \$** Bank
- ANZ** ANZ ATM
- Westpac** Westpac ATM
- BSP** BSP ATM

Residential Precincts

1. Riverside Gardens
2. Sovereign Quays
3. The Links
4. Paradise Point
5. Fairway Palms
6. Mariners Reach
7. The Cove
8. Marina Point
9. The Peninsula

