



SPC
Secretariat
of the Pacific
Community



SPREP
Secretariat of the Pacific Regional
Environment Programme

**SPC-SPREP Organised *Pacific ACP States 4th Regional Training Workshop*
*“Environmental Perspectives of Deep Sea Mineral Activities”***

9th – 13th December 2013
Tanoa International Hotel
Nadi, Fiji

Introduction

In response to regional and national capacity building needs in the region, the Secretariat of the Pacific Community (SPC) through the SPC-EU Deep Sea Minerals (DSM) Project has devised and implemented a regional training programme to develop and enhance the knowledge of Pacific ACP States multi-stakeholders who are representing various interests on issues relating to deep sea minerals. Part of this initiative is to conduct awareness and training workshops on environmental management of deep sea mineral activities.

The first event was the International Workshop on Environmental Management Needs for Exploration and Exploitation of Deep Sea Minerals that was held in Nadi Fiji in November-December 2011. This initiative was co-organised by the International Seabed Authority (ISA), SPC and the Government of Fiji and attended by various experts from around the world. One of the significant outcomes of the workshop was the Environmental Impact Assessment (EIA) template that can be applied to both the Area and national jurisdiction.

This was followed by the first DSM Project regional training workshop that was held in Nadi Fiji in August 2012 and focused on “Geological, Technological, Biological and Environmental Aspects of Deep Sea Minerals”. Relevant experts were invited as trainers during the workshop including a marine geologist at US Geological Survey, and Deep Sea Biologist from the Penn State University. In consultation with representatives of the Secretariat of the Pacific Regional Environment Programme (SPREP), it was agreed that a regional environment training workshop on deep sea minerals focusing on the needs of the Pacific Islands region was necessary.

Due to ongoing stakeholder concerns on potential environmental impacts of deep sea mineral activities particularly on fishery resources and the many unknowns associated with deep sea mining, the 4th Regional Training Workshop will (i) build on the last two DSM environment workshops, (ii) assess regional and national environmental management needs, (iii) raise awareness based on current knowledge, (iv) develop a robust national EIA process using existing ISA template, and (v) identify capacity and knowledge gaps for implementing the EIA process.

This workshop is jointly organised by the SOPAC Division of the SPC, through the DSM Project, and SPREP, through the Noumea Convention. It will be held in Nadi Fiji between Monday 9th and Thursday 12th December 2013. In addition to the SPC and SPREP in-house capacities, competent individuals will be contracted as resource experts during the workshop. In addition, other speakers including country representatives will be invited to speak on specific topics and share their experiences. Two government officials from each of the 15 Pacific ACP States, additional SPREP members, and selected Civil Society representatives will be invited and supported to attend this workshop.

Objectives of the Workshop

1. To build on the outcomes of the last two Deep Sea Minerals environment workshops.
2. To assess site and national perspectives, particularly related to national responsibilities within the EIA process, such as evaluating the EIA, establishing the Environmental Management Plan (EMP), monitoring and enforcement of the EMP.
3. To assess regional issues, particularly any policy needs.
4. To raise awareness and provide a forum for discussion amongst environment professionals of the emerging Deep Sea Mineral industry, potential issues from an environment sector perspective.
5. To assist countries to identify capacity gaps for implementing all steps of the EIA process at national and regional scales and proposing measures to fill these gaps.

Revised Workshop Programme

<i>Time</i>	<i>Activity</i>	<i>Presenter</i>
Day 1 – Monday 9 December 2013		
8.30 – 9.00 am	Registration	All participants
9.00 – 10.15	<p>Brief welcome and introduction</p> <p>Prayer</p> <p>Official Opening</p> <p>Responding remarks</p> <p>Showing of the first and second DSM Documentaries</p> <p>Group Photo for Workshop Participants</p>	<p>Fiji Government Rep</p> <p>TBC</p> <p>Mr Samuela Namosimalua (Permanent Secretary, Ministry of Local Government and Environment, Fiji)</p> <p>Mr David Sheppard (Director General, SPREP)</p> <p>Prof Mike Petterson (Director – SOPAC Division, SPC)</p> <p>Mr Steve Menzies (Communication Specialist, SPC)</p>
10.15 – 10.45	Morning Tea	
10.45 – 12.30 pm	<p>Session 1 [Overview of Global DSM Resources and the Deep Sea Environment and Biology]</p> <p>Overview of Global Deep Sea Minerals with Specific Examples within the Pacific Islands region: tectonic and geological settings, mineral types, metal prices, supply and demand, exploration and mining interests, technology development.</p> <p>Characteristics of the deep sea environment. Marine scientific research on Deep Sea Biology and the biological communities associated with marine mineral deposits. Community connectivity in the deep ocean. Interaction between Deep Sea and the Upper Ocean. Ongoing scientific studies.</p>	<p>Akuila Tawake (SPC)</p> <p>Prof Cindy Van Dover (Duke University) / Dr Malcolm Clark (NIWA)</p>
12.30 – 1.30	<i>Lunch</i>	
1.30 – 3.15 pm	<p>Session 2 [Environment and Biology associated with Manganese Nodules and Crusts]</p> <p>Description of the Environment in which Manganese nodules and crusts occur. Biological communities associated with Manganese Nodules and crusts: types, behaviour, natural variability, spatial and temporal distribution of different species and communities, function, and potential uses</p>	<p>Dr Malcolm Clark (NIWA)</p>
3.15 – 3.30	<i>Afternoon Tea</i>	

3.30 – 5.00	<p>Session 3 [Environment and Biology Associated with Seafloor Massive Sulphides]</p> <p>Description of the Environment in which Hydrothermal Vents / Seafloor Massive Sulphides occur. Biological communities associated with Seafloor Massive Sulphides: types, behaviour, natural variability, spatial and temporal distribution of different species and communities, functions, and bio-prospecting potential.</p>	Prof Cindy Van Dover (Duke University)
6.00 – 8.00	Welcome Cocktail (sponsored by SPC)	All Participants
Day 2 – Tuesday 10 December 2013		
8.30 – 10.15 am	<p>Session 4 [Potential Impacts of Deep Sea Mining, and Waste Dumping Protocol]</p> <p>DSM: international law, and national laws in the Pacific</p> <p>Oceanic and deep sea fishery resources in the Pacific – importance of commercial fishing, impacts of fishing – economic, environmental and social. Potential impacts of deep sea mining, impacts that may affect fisheries, unknowns associated with deep sea mining. Recommended steps and actions</p>	Hannah Lily (SPC) Dr Malcolm Clark (NIWA)
10.15 – 10.45	<i>Morning Tea</i>	
10.45 – 12.30 pm	<p>Session 5 [Development of Regional and National Frameworks in the Pacific]</p> <p>Legal Environmental Framework in the Pacific</p>	Clark Peteru (SPREP)
12.30 – 1.30	<i>Lunch</i>	
1.30 – 3.15	<p>Session 6 [Global Deep Seabed Conservation Planning Initiatives and The Regional MSR Guidelines]</p> <p>Recent global initiatives to protect and conserve deep seabed resources from the potential impacts of deep sea mining, e.g. Outcomes of Kaplan Project, Dinard workshop, Sete Restoration Workshop, DOSI (Mexico Workshop), Global Ocean Commission Meeting, etc, designing conservation plans, potential benefits to the Pacific region</p>	Prof Cindy Van Dover (Duke University)
3.15 – 3.30	<i>Afternoon Tea</i>	
3.30 – 5.00	<p>Session 7 [First Panel Discussion]</p> <p>Panel Discussions on Deep sea minerals environment, biology, potential impacts of deep sea mining, waste dumping, conservation initiatives, stakeholder concerns. The Panel comprises 1 rep each from SPC, SPREP, Private Sector and Civil Society, and the two experts (Cindy and Malcolm)</p>	Akuila Tawake (SPC) / DSM Environment Adviser (SPC)
Day 3 – Wednesday 11 December 2013		

8.30 – 10.15 am	<p>Session 8 [Baseline Data Collection and National Environment Management Regime]</p> <p>Pacific ACP States Regional Marine Scientific Research Guidelines</p> <p>Baseline Environmental Data Collection for any Deep Sea Mining Project. How the data collection was carried out for the Solwara 1 Project EIS? Opportunities, challenges and Lessons Learned</p> <p>Current National Environmental Management Regime, What are the gaps? What assistance is needed?</p>	<p>Dr Malcolm Clark (NIWA)</p> <p>Prof Cindy Van Dover (Duke University)</p> <p>Reps of Fiji, PNG, Tonga</p>
10.15 – 10.30	<i>Morning Tea</i>	
10.30 – 12.30 pm	<p>Session 9 [Private Sector and Civil Society Perspectives]</p> <p>Private Sector – Environmental Aspects of Deep Sea Mining within National Jurisdiction and in the Area. What are the environment management issues that need to be addressed?</p> <p>DSM Environmental Concerns: a Collaboration Opportunity for the Pacific Region – A Civil Society Perspective</p>	<p>Nautilus Minerals, Neptune Minerals & KIOST (TBC)</p> <p>Teina McKenzie (CI) & Laisa Vereti (PIANGO)</p>
12.30 – 1.30	<i>Lunch</i>	
1.30 – 3.15 pm	<p>Session 10 [Environmental Impact Assessment]</p> <p>Environmental Impact Assessment, Environmental Management Planning and Monitoring and Evaluation implications and practice.</p> <p>Lessons learned, strengths and challenges of EIA process carried out for Solwara I – perspectives for improving the process in the Pacific.</p> <p>ISA EIA template (the outcome of the ISA-SPC-Fiji 2011 International Workshop) a joint effort of international experts – this can be applied to both national jurisdiction and the Area. It can also be modified to suit the EIA requirements of any country (i.e. country specific).</p>	<p>Tepa Suaesi and Sefanaia Nawadra (SPREP)</p> <p>Dr John Luick (SARDI)</p> <p>Dr Malcolm Clark (NIWA)</p>
3.15 – 3.30	<i>Afternoon Tea</i>	
3.30 – 5.00	<p>Session 11 [2nd Panel Discussion]</p> <p>Panel Discussion on DSM EIA needs, knowledge gaps, capacity requirements, What assistance is needed? How SPC and SPREP can better serve the DSM interests of PICTs? The Panel comprises 4 reps of PICTs, and 1 rep each from Private Sector and Civil Society</p>	<p>Sefanaia Nawadra (SPREP) / DSM Environment Advisor (SPC)</p>
Day 4 – Thursday 12 December 2013		

8.30 – 10.15 am	<p>Session 12 [Environmental Impact Assessment and Strategic Environmental Assessment] ISA EIA template (the outcome of the ISA-SPC-Fiji 2011 International Workshop) a joint effort of international experts – this can be applied to both national jurisdiction and the Area. It can also be modified to suit the EIA requirements of any country (i.e. country specific).</p> <p>Strategic Environmental Assessment (SEA) and Regional Cooperation</p>	<p>Dr Malcolm Clark (NIWA)</p> <p>Dr Tim Carruthers and Mr Tepa Suaesi (SPREP)</p>
10-15 – 10.45	<i>Morning Tea</i>	
10.45 – 12.30 pm	<p>Session 13 [Working Group Discussions] Participants will be divided into the following Working Groups:</p> <ul style="list-style-type: none"> - (1) Template for Seafloor Massive Sulphides EIA - (2) Template for Manganese Nodules EIA - (3) Template for Cobalt-rich Crusts EIA - (4) Strategic Environmental Assessment Guidelines - (5) Marine Spatial Planning - (6) Regional Cooperation 	All Participants
12.30 – 1.30 pm	<i>Lunch</i>	
1.30 – 3.00	<p>[Working Group Discussions cont.] Group Discussion to continue and be completed</p>	All Participants
3.00 – 3.15	<i>Afternoon Tea</i>	
3.15 – 4.30	<p>Session 14 [Working Group Presentation] Working Group presentations to commence</p>	All Participants
4.40 pm	Closing Remarks	Mr Joeli Cawaki Commissioner Western
6.00 – 8.00	Farewell Cocktail (sponsored by SPREP)	All Participants
Day 5 – Friday 13 December 2013		
8.30 – 10.15 am	<p>Session 14 [Group Presentation and Plenary Discussion] Group Presentations to be completed Plenary discussions on Workshop Group presentations to refine the templates</p>	All Participants
10.15– 10.45	<i>Morning Tea</i>	
10.45 – 12.30 pm	<p>Session 15 [Key Outcomes of the Workshop] Plenary discussion to refine the Key Outcomes of the Workshop</p>	Sefanaia Nawadra (SPREP) / Akuila Tawake (SPC)
12.30	<i>Lunch</i>	