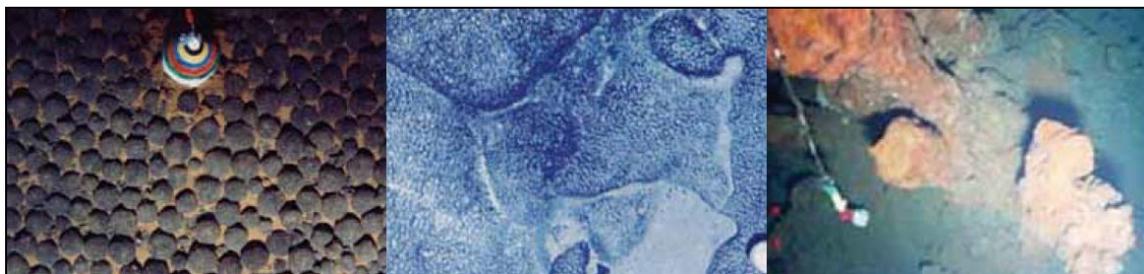




SPC-EU EDF10 Deep Sea Minerals (DSM) Project



1st Six Monthly Progress Report *January – June 2011*



Participants of the Inaugural DSM Project Regional Workshop, Nadi Fiji, 6 – 8 June 2011.

Prepared by:

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Secretariat of the Pacific Community
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IMPORTANT NOTICE

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1. Introduction

The regional Deep Sea Minerals (DSM) Project officially commenced with the signing of the Contribution Agreement between the European Union (EU) and the Secretariat of the Pacific Community (SPC) on the 6th of August 2010 in the margins of the Pacific Islands Forum Leaders meeting in Port Vila Vanuatu.

This was followed by the recruitment of project staff members including the Team Leader who would be managing the day to day implementation of project activities. In addition, the inaugural DSM Project regional workshop was held in Nadi, Fiji in June and was attended by various stakeholders within and outside the region. This was followed by the meeting of the Pacific Marine Minerals Assessment Steering Committee comprising experts from around the world.

As part of the information sharing initiative of the project, six information brochures were prepared and finalised. These information brochures were distributed to participants during the DSM Project regional workshop in Nadi.

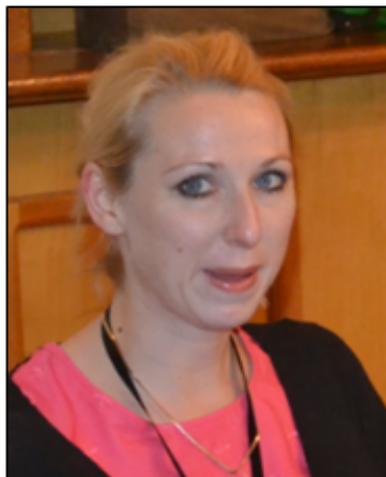
2. Project Staff Recruitment

The two senior posts (Project Team Leader and Legal Adviser) of the DSM Project Staff were advertised and processed in accordance with the SPC recruitment process for internationally recruited positions. Following this, Mr Akuila Tawake was appointed as the Project Team Leader in December and he officially started in post on the 1st February 2011. Akuila brings fourteen years of working in the field of geology and minerals in Fiji and the region to the Project with hands on mining industry experience. One of his immediate priorities as Project Team Leader was to progress and complete the recruitment for the other project staff positions.

The recruitment for the Legal Adviser was concluded in April with the appointment of Ms Hannah Lily to this position. Hannah currently works as a Legal Adviser with The Charity Commission in London and brings significant legal and management skills and experience to the Project. She will not start in post until 3rd of October. However, Hannah has been contracted on a part time basis to work on some of the project priority areas until she commences on her new role.



Akuila Tawake



Hannah Lily



Vira Atalifo

Figure 1. DSM Project staff members.

Lastly, the recruitment for the Project Assistant was initiated in February and following the interviews for the position in early May, Ms Vira Atalifo was appointed to this position and she subsequently took up the post on the 23rd of May 2011. Previously, Vira was an Attachment

Trainee with the Ocean and Islands Programme at the SOPAC Division soon after graduating from the University of the South Pacific.

Summary information for each staff member is tabulated below:

#	Position	Staff Member	Nationality	Start of Contract
1	Team Leader	Akuila Tawake	Fiji	01 February 2011
2	Legal Adviser	Hannah Lily	United Kingdom	03 October 2011
3	Project Assistant	Vira Atalifo	Fiji	23 May 2011

3. DSM Project Regional Workshop

The inaugural regional workshop for the SPC-EU EDF10 Deep Sea Minerals (DSM) Project was held at the Tanoa International Hotel in Nadi Fiji from the Monday 6th – Wednesday 8th June 2011. The workshop was titled “*High Level Briefing on the Status of Deep Sea Minerals in the Pacific Islands Region and Planning for a Regionally Integrated Way Forward*”. Apparently, this was to capture the significance of this event together with the in-depth sharing of information that was expected to take place on a broad range of issues relating to deep sea minerals. A number of world renowned experts on marine minerals attended the workshop as resource personnel and provided the necessary advice and guidance.

3.1 Purpose of the Workshop

The main objectives of the workshop were to present the SPC-EU Deep Sea Minerals (DSM) Project and provide an opportunity for country representatives to be briefed by presenters, including the experts, on various aspects of deep sea minerals. This would stimulate discussions among participants who collectively were expected to develop modes of project implementation and agreed priorities for the next four years. The workshop programme is appended (Annex 1).

The specific purposes of the workshop were to:

- (i) present the proposed regional approach of the SPC-EU DSM Project together with the current status of marine minerals exploration and mining in the region to stakeholders;
- (ii) encourage participating countries to describe their understanding and opinion of regional and national deep sea minerals issues as well as their expectations of the project;
- (iii) enable the experts to present on their respective areas of expertise to boost knowledge on issues relating to deep sea minerals;
- (iv) stimulate discussion among stakeholders with appropriate advice and guidance from the experts;
- (v) consider feedbacks from stakeholders on improving task implementation and delivery as well as stakeholder participation;
- (vi) disseminate project information brochures to participants for information;
- (vii) discuss potential collaborative efforts with a number of potential implementing partners; and
- (viii) identify challenges / needs / priorities and collectively recommend appropriate approaches / strategies and a way forward for the next four years.

3.2 Workshop Participants

A total of 97 participants (Figure 2) attended the workshop with the following representation:

The following member countries of the Secretariat of the Pacific Community (SPC) were represented: Cook Islands, Federated States of Micronesia, Fiji Islands, France, Kiribati, Marshall Islands, Nauru, Niue, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, United States

and Vanuatu. The following governments also sent representatives: South Korea, People's Republic of China and Timor Leste (also a beneficiary of the DSM Project at the European Union's request).

International, regional and national agencies represented were: Commonwealth Secretariat, Duke University, European Union, IFM-GEOMAR, International Seabed Authority, International Union for Conservation of Nature (IUCN), Korea Ocean Research & Development Institute (KORDI), National Institute of Water & Atmospheric Research (NIWA), Pacific Islands Forum Secretariat (PIFS), Pennsylvania State University, Secretariat of the Pacific Regional Environment Programme (SPREP), UNEP/GRID-Arendal, United States Geological Survey (USGS), and World Bank.

The following private sector and civil society entities were represented: Anindilyakwa Land Council, BECA International Limited, Centre for Environmental Law and Community Rights Inc, Eco-Strategic Consultants, Envi-Green Pacific Consultancy Limited, Fiji Environmental Law Association, GeoPacific Limited, Greenpeace Australia Pacific, Kontiki Capital, Minerals Policy Institute, MUSKITS Law, Nauru Ocean Resources Inc (NORI), Nautilus Minerals Inc, North-South Environmental Law, and World Wildlife Fund (WWF).



Figure 2. Participants during one of the Workshop Sessions.

3.3 Chair's Summary

The following outcomes are the summary of key issues raised by each of the twelve groups during group discussions and presentations as well as follow up comments and suggestions.

- **Regional Approach:** A regional approach to regulate the DSM sector and address seabed mining and related issues.
- **Capacity Building:** There is a great need for capacity building in all aspects of DSM and the priority areas have been identified.
- **Technology Development and Transfer:** Encourage and support long-term technology development and transfer through partnership and participation.
- **Maritime Boundary and Trans-boundary Challenges:** Maritime boundary issues and trans-boundary challenges need to be addressed in accordance with UNCLOS.

- **Benefit Sharing:** The sharing of benefits derived from mining projects is a concern hence mechanisms for equitable sharing of financial and other benefits have been proposed.
- **Data & Information:** Collation of existing DSM data and information and the establishment of a regional database are crucial to understanding state of knowledge.
- **Marine Scientific Research:** MSR needs to be encouraged and promoted in the region through the relevant initiatives in accordance with LOSC.
- **Community Concerns and Stakeholder Consultation:** Inclusive and ongoing consultations must be encouraged together with community engagement and participation.
- **Environment Protection Guidelines:** Suggested guidelines that support environment protection have been identified and regional and national environment frameworks must conform to existing international and regional mechanisms.
- **Environment Conservation and Monitoring:** There is a need to balance exploitation and conservation, and protect and conserve marine biodiversity in accordance with the precautionary approach concept and LOSC.
- **Information Sharing and Outreach:** Information sharing is an integral part of a regional approach and transparency in ensuring stakeholders are better informed through various awareness programs.
- **Fisheries:** Perceived impacts on fishery resources are a concern hence the application of precautionary integrated approach to ocean resources management is crucial.
- **Resource Assessment:** Systematic and detailed seabed mineral assessments are required to better understand mineral potential in the region.
- **Mining Technical Information:** Mining technical terms and processes need to be presented/explained in simple terms to stakeholders.
- **Legal Frameworks:** The development of regional and national frameworks needs to apply an adaptive approach as well as to ensure they are harmonised with international and regional treaties and conventions.
- **Fiscal Regime:** Countries must avoid reinventing the wheel and consider existing fiscal regimes in mining and other extractive industries, and tax instruments should be flexible and regionally harmonized.
- **Sustainable Economics:** DSM deposits are finite hence the need to balance economic imperative with the precautionary approach to optimise revenue streams and long-term sustainable benefits.
- **Governance and Transparency:** Proposed transparency mechanisms include the adoption of the “Norwegian Model” and the Extractive Industry Transparency Initiative (EITI) for managing offshore mining revenues and benefits.

An expanded Chair’s Summary and a detailed list of group discussion outcomes are included in the workshop proceedings.

3.4 Workshop Evaluation

A workshop Evaluation Questionnaire (see Annex 2) was prepared and distributed to participants to fill at the end of the workshop. This exercise was basically to gauge the independent opinion of participants about every aspect of the workshop and to improve future DSM Project interventions.

The filled evaluation forms were assessed and the pie chart below (Figure 3) shows the overall rating of the workshop. With the ratings of 44% Excellent; 51% Very Good and 5% Good, it can be concluded that the overall organisation and delivery of the workshop was highly satisfactory. Participants have rated the range of deep sea minerals related topics presented, the coverage of each topic and the quality of information/ data presented very highly.

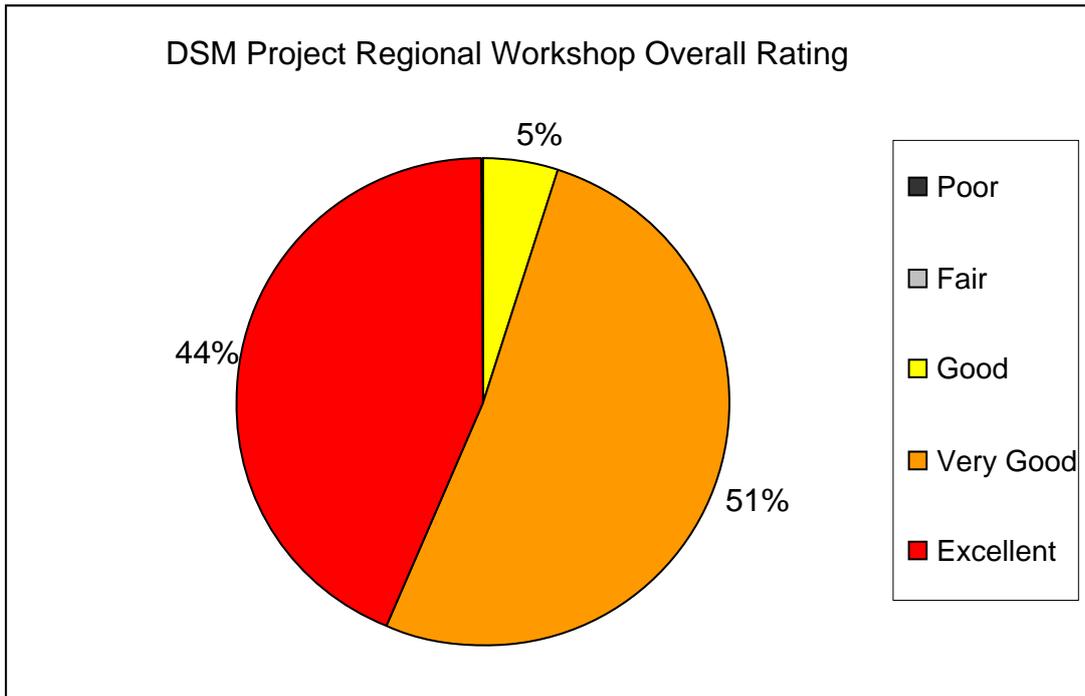


Figure 3. Pie Chart showing the participants overall rating of the workshop.

However, there are a number of areas that need some improvement particularly on the time allocated to present and discuss each topic and individual participation during group discussions. The results of the evaluation will certainly help to improve future workshop / meetings and other DSM Project interventions.

4. DSM Project Steering Committee

The first DSM Project Steering Committee meeting was held on Wednesday night 8th June 2011 at the Tanoa International Hotel in Nadi Fiji (Figure 4). The meeting was chaired by Dr Russell Howorth (Director of the SOPAC Division, SPC) and attended by representatives of participating countries and the DSM Project as well as a representative each from the EU Delegation and the Secretary General of the Pacific Islands Forum Secretariat (PIFS) as the Regional Authorising Officer.

Many DSM Project issues were raised and discussed during the meeting and the minutes of the meeting was prepared and sent to attendees (see Annex 3). The next meeting of the Project Steering Committee is scheduled for October 2011 in Nadi Fiji in the margins of STAR / Heads of Geoscience meeting.



Figure 4. DSM Project Steering Committee during session in Nadi.

5. SPC-UNEP/GRID-Arendal Partnership

The DSM Project is working in partnership with the United Nations Environment Program (UNEP) collaborating centre (GRID-Arendal) located in Arendal Norway on the Pacific marine minerals assessment. This assessment is based on previous marine scientific studies and exploration and UNEP/GRID-Arendal is contracted to coordinate this initiative.

This partnership (SOPAC-UNEP/GRID-Arendal) is expected to address the following two activities in part or fully as explicitly stated in the SPC-EU EDF10 Deep Sea Minerals Project Technical and Administrative Provisions document:

Key Result Area 3 – Activity (ii): “Establish a regional marine minerals database with national nodes or access points in conjunction with partners such as UNEP-GRID and international data centres”.

Key Result Area 4 – Activity (i): “Develop appropriate regional environmental monitoring guidelines including a framework for environmental management. This could include but is not restricted to; review of existing deep-sea resource use and environmental guidelines (e.g. ISA and others), work collaboratively with existing technical partners (e.g. UNEP Shelf Programme) to review existing literature and systems in place to support environmental management of DSM operations”.

5.1 First Technical Steering Committee Meeting

A technical Steering Committee for the Pacific Marine Minerals Assessment has been established to guide and support the DSM Project deliverables under this SPC-UNEP/GRID-Arendal partnership. This technical Steering Committee must not be confused with the DSM Project Steering Committee that is discussed in Section 4 above.

The technical Steering Committee consists of nineteen professionals comprising a number of world renowned experts as well as key stakeholders in the region (see Annex 4). The first meeting

of the technical Steering Committee (Figure 5) was held back-to-back with the DSM Project regional workshop in Nadi in June. Prior arrangements were made with these experts to participate in the workshop and attend the technical Steering Committee meeting on the 9th and 10th of June.

The goals of the technical Steering Committee meeting were:

1. Introduction of all members of the technical Steering Committee;
2. Introduction of Roadmap of the project;
3. Finalise thematic scope and transform into chapter headers to guide content development;
4. Discuss the main deliverables (print edition, digital edition, facilitation workshop) and their formats;
5. Identify/Appoint Chapter Leads;
6. Identify possible authors for chapters;
7. General administrative issues.



Figure 5. Members of the technical Steering Committee in session during the first meeting.

5.2 Approved Milestones

Key project milestones have been agreed (see Table below). The proposed final deliverable style detailed by SPC/SOPAC Division will be amended if necessary following consultations with country representatives and members of the Steering Committee. The outputs of this project component are expected to take a year to complete.

Date Deadline	Activities Outputs
JUNE 9-10 2011	1 st Steering Committee meeting, Nadi, Fiji
October 1 2011	Detailed preliminary draft completed
November 15, 2011	Content Draft 1 completed
November 27-28 2011	Tentative 2 nd Steering Committee meeting, Nadi, Fiji
Early February 2012	Content Draft 2 completed (including revisions from external reviewers)
March 2012	Edited Draft 1 (text only)

End of April 2012	Edited Draft 2 (text and visuals)
End of May 2012	Fully Laid out Draft 1
June 2012 (Rio+20)	Launch of Final Products

6. Review of PNG's Offshore Mining Policy

The DSM Project was asked to do a rapid preliminary review of the draft PNG Offshore Mining Policy as part of the Project's assistance to PNG. A copy of the draft policy was made available after the workshop in June and it was subsequently reviewed and sent to the Director of the Mineral Policy and Legislation Division in PNG.

7. Information Sharing

Metalliferous mining occurs only in a few larger volcanic island countries such as PNG, Solomon Islands and Fiji, hence it is important to share basic minerals and mining related information with stakeholders throughout the Pacific Islands region. Information sharing is a crucial component of the DSM Project to ensure relevant information and data are disseminated to various sectors and communities that also contribute to stakeholder empowerment.

Given the broad range of stakeholders that attended the DSM regional workshop in Nadi and the emerging interest in deep sea minerals, it was fitting and appropriate to have the information brochures (Figure 6) ready for distribution during the workshop. The following six information brochures were prepared, reviewed and finalised during the reporting period:



Figure 6. A sample each of the first four DSM Project Information Brochures.

Information Brochure 1: Deep Sea Minerals (DSM) Project Overview

- Information Brochure 2: Minerals and Mining Process
- Information Brochure 3: Marine Minerals
- Information Brochure 4: Marine Mining and Technology Development
- Information Brochure 5: Mining Waste and Disposal
- Information Brochure 6: Deep Sea Minerals Potential of the Pacific Islands Region

Additional information brochures will be prepared in the next six months with particular focus on the seabed mineral potential of selected participating countries.

8. Communication and Visibility

In an effort to communicate project activities as widely as possible, a press release was prepared and issued in February to media outlets in the regions. The article entitled “Regional Project to Promote Mineral Wealth” gave a broad overview of the project for the public to understand the scope of the DSM Project.

Following that, a local consultant (Pacific Reach Limited) was contracted in May to be responsible for all media works (prepare and disseminate press releases, TV and radio interviews, media liaison) prior to, during, and soon after the project inception workshop. Two news articles were published leading up to the workshop that led to expression of interest from various stakeholders in attending the workshop. The workshop events were pretty well covered in the press releases as shown by the media coverage during and after the workshop. Some of the press releases are shown in Figure 7 below.



Figure 7. Samples of DSM Project press releases within and outside the region.

All official SPC press releases were distributed to and published in media outlets within and outside the region in which the EU's financial support was also highlighted.

9. Consultants

- The Norway based UNEP/GRID-Arendal has been contracted to carry out the Pacific Marine Minerals Assessment for the period June 2011 to June 2012. The Consultant shall ensure that all necessary capacities and competencies as required from the international expert community are secured for the duration of the Agreement.
- Pacific Reach Limited was engaged as a short-term consultant to cover and coordinate press releases prior to and during the inaugural DSM Project regional workshop in Nadi in June. This consultancy was part of the ongoing Communication and Visibility component of DSM Project.
- Ms Hannah Lily (DSM Project Legal Advisor designate) was offered a short-term contract to attend and participate in the DSM project regional workshop, the Steering Committee meeting for the Pacific Marine Minerals Assessment and other associated engagements. Hannah had to take unremunerated leave to attend these meetings.
- Ms Hannah Lily (DSM Project Legal Advisor designate) has been contracted on a part-time basis to perform a number of duties that are considered priority areas for the project and in line with the position of Legal Adviser. This contract is valid for the period June to September 2011.

10. Project Finances

A summary of the DSM Project expenditure for the period January – June 2011 is presented below:

Activity	Actual Costs (FJD) (Jan to Jun 2011)
Technical Assistance:	
Advertisement and Interviews	5,455.49
Salaries	75,977.40
Travel and Subsistence Costs:	
Travel	66,324.62
Subsistence	108,705.04
Training	-
Equipment and Services	-
Consumable and Other Supplies	9,500.43
Consultancies	135,564.59
Field Surveys, Baseline and Monitoring	-
Dissemination of Project Outputs	3,930.00
Monitoring and Evaluation	-
EU Visibility	7,865.48
TOTAL (Direct Project Costs)	413,323.05

ANNEX 1

DSM Project Workshop Programme

<i>Time</i>	<i>Activity</i>	<i>Presenter</i>
Day 1 – Monday 6 June 2011		
8.00 – 9.15 am	Registration	All participants
9.15 – 10.15	Brief welcome and introduction	Arthur Webb (SPC)
	Official Opening	Russell Howorth (Director – SOPAC Division, SPC)
	Introduction of Participants	Participants
	Workshop program, workshop outline – purpose, expected results and outcomes, House keeping matters	Akuila Tawake (SPC)
	Group Photo for workshop participants	
10.15 – 10.30	<i>Morning Tea</i>	
10.30 – 12.30 pm	Session 1 [SPC-EU DSM Project and Related Activities]	
	Overview of the SPC-EU EDF10 Deep Sea Minerals (DSM) Project: Background of offshore minerals exploration in the region, mode of project implementation, Key Result Areas and planned activities.	Akuila Tawake
	Relevance of UNCLOS to marine mining and the rights of a coast state under UNCLOS, regional conventions / agreements, relevant national policies and laws, DSM Project proposed method of policy and legislation developments	Hannah Lily (SPC)
	SPC-UNEP/GRID-Arendal proposed collaboration on Pacific Marine Minerals and Deep Sea Mining Assessment, scope and deliverables, similar UNEP/GRID products	Elaine Baker / Yannick Beaudoin (UNEP/GRID)
	Status of the regional Maritime Boundary Delimitation and the Extended Continental Shelf claim	Arthur Webb
12.30 – 1.30	<i>Lunch</i>	
1.30 – 3.00	Session 2 [Deep Sea Minerals Occurrence and Potential]	
	A global overview of the Deep Sea Mineral: Occurrence, trend and potential with Case Studies	James Hein (USGS)
	Deep Sea Mineral occurrence and potential in the Pacific Islands Region with Case Studies	Akuila Tawake
	Manganese Nodules and Cobalt-rich Crust – Previous studies, geology, characteristics and potential globally and in the Pacific region	James Hein
3.00 – 3.15	<i>Afternoon Tea</i>	

3.15 – 5.00	<p>Session 3 [Country Perspective and Legislative Framework]</p> <p>Cook Islands – manganese nodules exploration interests and state of knowledge, the new Cook Islands seabed minerals policy and legislation, needs and required assistance?</p> <p>Tonga – Seabed exploration in Tonga: new industry, potential for economic growth, capacity building, policy and legislation vacuum.</p> <p>Fiji – Resource potential and state of knowledge. Challenges in policy and legislation development and investment in offshore minerals exploration and mining.</p> <p>Proposed legislative and administrative frameworks for Deep Sea Minerals and mining</p>	<p>Paul Lynch (MFAI, Cook Islands)</p> <p>Rennie Vaiomounga (MLSNR, Tonga)</p> <p>Malakai Finau (MRD, Fiji)</p> <p>Robert Makgill (N-S Environmental Law)</p>
6.00 – 8.00	Cocktail – All participants are invited	
Day 2 – Tuesday 7 June 2011		
8.30 – 10.15 am	<p>Session 4 [The PNG Experience – Legislative Development and Offshore Mining potential]</p> <p>Overview of the review of the mineral policy and legislation</p> <p>Introduction and presentation on the Solwara 1 licensing process up to the take up of equity by the PNG Government</p> <p>PNG’s claim for the extended boundaries of the continental shelf and its implications on the development of the policy</p> <p>Overview of the draft PNG Offshore Mining Policy</p> <p>Geohazards management initiative and its contributions to the Pacific on the monitoring, assessment and mitigation of geological hazards and its linkages to offshore mining.</p> <p>PNG – exploration and mining potential and processes. Seabed Mining – compare with terrestrial mining, licensing, revenue generation and economic growth</p>	<p>Harry Kore (DMPGM, PNG)</p> <p>Shadrach Himata (DMPGM)</p> <p>Gregory Roaveneo (DMPGM)</p> <p>Steve Raaymakers (DMPGM)</p> <p>John Arumba (DMPGM)</p> <p>Jerry Naime (MRA, PNG)</p>
10.15 – 10.30	<i>Morning Tea</i>	
10.30 – 12.30 pm	<p>Session 5 [Fiscal Regime Options relating to Mining]</p> <p>Mining taxation regimes: range of mining taxation available, fiscal regime commonly used globally, what regime is best for the Pacific? A case study as an example</p> <p>Mining taxation policy: EITI principles, management of mining revenue stream, budget transparency arrangements, sustainable saving mechanism, macro-economic policy</p> <p>Interactive Session on Alternative Fiscal Regime for the Mining Industry: “The Norwegian Model” (approx. 1 hour)</p>	<p>George Niumataiwalu (Kontiki Capital)</p> <p>Graeme Hancock (World Bank)</p> <p>Anne Solgaard and Yannick Beaudoin (UNEP/GRID)</p>
12.30 – 1.30	<i>Lunch</i>	

1.30 – 3.15	<p>Session 7 [Environment Conservation and Deep Sea Ecosystems]</p> <p>Marine Conservation issues, marine protected areas, concerns of communities in the region, Potential impacts of bottom trawling and other fishing methods on deep sea and seabed ecosystems</p> <p>Hydrothermal vent ecosystems: discovery, species variability on temporal and spatial scales, importance and uses, conservation issues and vent protected areas</p> <p>Ferromanganese nodules/crust ecosystems: discovery, species variability on temporal and spatial scales, significance, conservation issues</p> <p>Current Activities of KORDI's Environmental Study for Deep-Sea Mining</p>	<p>Taholo Kami (IUCN) / Charlie Avis (WWF)</p> <p>Chuck Fisher (Pennsylvania State University)</p> <p>Malcolm Clark (NIWA)</p> <p>Ju-Won Son (KORDI)</p>
3.15 – 3.30	<i>Afternoon Tea</i>	
3.30 – 5.00	<p>Session 8 [Private Sector Perspective and Interests]</p> <p>Solwara 1 Project Update</p> <p>Deep Ocean Seafloor Mineral extraction: Environmental and Social Considerations</p> <p>Exploration activities of KORDI for deep sea minerals development in the Pacific region</p> <p>Nauru Ocean Resources Inc (NORI): company update, interest in the Pacific, planned activities, challenges, benefits to Nauru and other PICs</p>	<p>Samantha Smith (Nautilus Minerals)</p> <p>Samantha Smith</p> <p>Jonguk Kim (KORDI)</p> <p>Robert Heydon (NORI)</p>
	BREAK	
6.30 – 8.00	<p>[Informal side event with Representatives of PICs]</p> <p>Examining higher level principles of New/Transitional Economics and how these principles can provide new options across many PIC economic sectors</p>	<p>Anne Solgaard, Yannick Beaudoin and Linwood Pendleton</p>
Day 3 – Wednesday 8 June 2011		
8.30 – 10.15 am	<p>Session 6 [General DSM Related Issues]</p> <p>Seafloor Massive Sulphides (SMS) – Previous studies, geology and characteristics, global and Pacific region potential</p> <p>ISA: functions and responsibilities, ongoing activities in the international seabed areas, international conventions and laws governing the Area, procedures for mineral exploration and mining in the Area, A legal perspective.</p> <p>Challenges of policy and legislation development in the Pacific Island Countries, and suggestions for improvement</p> <p>Overview of societal and economic perspective of natural resources development and management with emphasis on the economics of deep sea minerals and mining</p>	<p>Sven Petersen (IFM-GEOMAR)</p> <p>Michael Lodge (ISA)</p> <p>Clark Peteru (SPREP)</p> <p>Linwood Pendleton (NOAA)</p>

10.15 – 10.30	<i>Morning Tea</i>	
10.30 – 12.30 pm	<p>Session 9 [Plenary Session 1]</p> <p>Each group is required to discuss the three major issues given below and identify challenges/needs/priorities and recommend appropriate approaches/strategies, and the way forward:</p> <p>Issue 1: offshore exploration and mining, mineral potential, maritime boundaries, technology development and transfer, private sector perspective, implications of UNCLOS and other laws, stakeholder collaboration and partnership.</p> <p>Issue 2: conservation of deep sea ecosystems, fishery and other marine resources, potentially impacted communities, community concerns, outreach, implications of UNCLOS and other laws, stakeholder collaboration and partnership.</p> <p>Issue 3: fiscal regime and policy, development of the regional framework and national policy / legislation / regulations, legal drafting, implications of UNCLOS and other international / regional conventions, existing national policy and laws, stakeholder collaboration and partnership.</p>	Participants
12.30 – 1.30	<i>Lunch</i>	
1.30 – 3.00	<p>Session 10 [Plenary Session 2]</p> <p>Wrap up plenary discussions and Team Leaders to present individual team plenary report</p>	Participants
3.00 – 3.15	<i>Afternoon Tea</i>	
3.15 – 4.30	<p>Session 11 [Discussion and Outcomes]</p> <p>Discussion on the needs/priorities and agreement on issues to be addressed and the way forward</p>	Participants
4.30	Close of Workshop	TBA
6.00 – 7.00	<p>[Meeting to discuss the DSM Project Steering Committee (Restricted Attendance)]</p> <p>Discussion by representatives of participating countries, RAO, SPC and the EU on the operations of the DSM Project Steering Committee</p>	Representatives of participating countries, RAO, SPC and EU

ANNEX 2

Applied Geoscience and Technology Division (SOPAC) Deep Sea Minerals Project Inaugural Regional Workshop

WORKSHOP EVALUATION QUESTIONNAIRE

Your name is not necessary unless you particularly would like to identify yourself.

VENUE: Tanoa International Hotel, Nadi, Fiji.

DATE: _____

Give a rating to each item stated below on a scale of 1 - 5 by placing a tick in the appropriate box.

Scale: 1 – poor 2 – fair 3 – good 4 – very good 5 – excellent

AREA		RATING					ADDITIONAL COMMENTS
		1	2	3	4	5	
1. Questions							
1.1	Range of topics covered						
1.2	Coverage of topics						
1.3	Quality of information/data provided						
1.4	Time allocated to each topic						
1.5	Quality of presentations						
1.6	Quantity of shared materials (e.g. poster, information brochures, etc)						
1.7	Group discussions						
1.8	Individual participation during group discussions						
1.9	Performance of Presenters						
1.10	Facilities Available						
1.11	Assistance offered prior to and during the workshop						
1.12	Overall rating of the workshop						
2. Additional Questions							
2.1	Which Sessions were the most useful and why?						
2.2	What Sessions you would like more information in future?						
2.3	What else can be done to improve stakeholder participation?						
2.4	Suggestions for improvement?						

Thank you for your participation and completing this form

ANNEX 3

SPC-EU EDF10 Deep Sea Minerals (DSM) Project Steering Committee Meeting

*6-8pm June 8 2011
Tanoa International Hotel
Nadi Fiji.*

By: Hannah Lily and Akuila Tawake

1. In attendance:

- Dr Russell Howorth – SPC (Director – SOPAC Division)
- Dr Arthur Webb – SPC (Deputy Director – Oceans and Islands Program)
- Mr Akuila Tawake – SPC (Team Leader – DSM Project)
- Ms Hannah Lily – SPC (Legal Advisor – DSM Project)
- Mr Jerry Huekwahin – PIFS (RAO Representative)
- Mr Thierry Catteau – EU (Attaché – EU Delegation for the Pacific)
- Mr Tingika Elikana – Cook Islands (Solicitor General)
- Mr Malakai Finau – Fiji (Director – Mineral Resources Department)
- Mr Wong Hen Loon – Fiji (Senior Scientific Officer – MRD)
- Mrs Josiane Couratier – France (Deputy Representative of France to SPC)
- Mr Kabure Tamariti – Kiribati (Deputy Secretary – Ministry of Fisheries and Marine Resources Development)
- Mr Charles Dominick – Marshall Islands (Advisor – Ministry of Resources and Development)
- Mr Richard Hipa – Niue (Secretary to Government)
- Mr Harry Kore – PNG (Director – Minerals Policy and Legislation)
- Mr Lameko Talia – Samoa (Principal Scientific Officer – Ministry of Natural Resources and Environment)
- Mr Vicente da Costa Pitno – Timor Leste (Minerals Officer – Secretariat of State for Natural Resources)
- Mr Rennie Vaiomounga – Tonga (Assistant Geologist – Ministry of Lands, Survey and Natural Resources)
- Ms Eselealofa Apinelu – Tuvalu (Attorney General)
- Mr Faatasi Malologa – Tuvalu (Director of Lands – Department of Land and Survey)
- Mr Christopher Ioan – Vanuatu (Director – Department of Geology, Mines and Water Resources)
- Mr Brooks Rakau – Vanuatu (Minerals Coordinator – DGMWR)
- Mr Clark Peteru – SPREP (Legal Advisor - Observer)

2. Official Welcome:

- The Steering Committee was officially welcomed by Dr Russell Howorth, Director of the SOPAC Division of the Secretariat of the Pacific Community (SPC).
- In response Richard of Niue commented that the inaugural regional workshop was an excellent start to the DSM Project and participating countries are hopeful that this will keep the momentum going in an interactive manner in the years ahead.

3. It was noted that:

- 3.1. The DSM Project had officially started on 01/02/2011 with the appointment of Akuila Tawake as Project Manager and he reports to the Deputy Director – Ocean and Islands Program.
- 3.2. It was acknowledged that there had been some delay in the signing of the DSM Project Contribution Agreement between the SPC and the EU (the donor) due to SOPAC's corporate integration into SPC.
- 3.3. Hannah Lily had recently been appointed as DSM Project Legal Advisor, and would start in post in October 2011. Vira Atalifo had been appointed as DSM Project Assistant, and started in post in May 2011.
- 3.4. Six information brochures have already been prepared and published by the DSM Project, and received positive feedback from workshop participants. NGO representatives have requested electronic copies of these information brochures to be shared through their networks.
- 3.5. The DSM Project may consider translating these information brochures to local languages in the region. This would be a significant challenge that requires the commitment of participating countries and the assistance of in-country stakeholders.
- 3.6. As part of the DSM Project, SOPAC was collaborating with UNEP/GRID-Arendal to produce a technical report publication setting out the current state of knowledge and information held (generally – not just by SOPAC) about deep sea minerals and mining, which is aimed to assist PIC policy-makers/analysts. The full published report is likely to be around 200 pages. The DSM Project will also produce a shorter, quick reference summary document, and an e-book. The target for launch of these products is June 2012 (which ties in with RIO plus 20).
- 3.7. The other major product of the DSM Project will be a regional legislative and regulatory framework (RLRF) on offshore mineral exploration and exploitation, which is due to be finalised by June 2012.
- 3.8. Project information brochures highlighting each country's deep sea minerals potential should have economic flavours in order to attract the attention of potential investors and decision makers.
- 3.9. Country-specific information brochures should be handed to the country of origin for information and distribution. Dissemination of country-specific information brochures by any other party must be endorsed by the country of origin.

- 3.10. The DSM Project needs to target priority areas in each country and avoid having to spread its resources too thinly.
- 3.11. The link between the DSM Project and other areas of SOPAC was highlighted, for example, it was stated that the Project may encourage speedier maritime boundary agreements; and the Project may also benefit from the potential for collaborative work between Geoscience Australia and the UNEP extended Continental Shelf programme to develop habitat / biodiversity maps of the Pacific Islands region.
- 3.12. The EU representative explained that the Project was funded by the 10th EDF funding stream, with particular focus on a regional approach to environmental protection. Economic advancement must go together with environment protection initiatives.
- 3.13. The role of the Regional Authorising Officer (RAO) has been made redundant, and so that functions (which had strategic supervisory focus on all EU funded Projects including the DSM Project – not micro-management) would move to the Pacific Integration Technical Assistance Project Officer.
- 3.14. Although there was interest amongst the PICs in the DSM Project also covering hydrocarbons, this was not permitted under the terms of the funding agreement with the EU. The Project must stay within the project proposal that the EU had agreed, which was already ambitious. Successful delivery of the DSM Project would however enhance the likelihood of future funding applications being successful.
- 3.15. Support from SOPAC on other areas, such as hydrocarbons, may however be available outside of the DSM Project. It was also revealed that Tonga is currently being assisted by a foreign company in assessing its EEZ's hydrocarbon potential.
- 3.16. The first SPC / SOPAC Division Heads of Geoscience meeting would be held in Rarotonga on 15-21 October 2011
- 3.17. All PICs participating in the DSM Project had been forwarded a copy of the Contribution Agreement, which contained the Project work plan and budget information – but not all Steering Committee members had seen this.
- 3.18. Australia and New Zealand had not to date participated in the DSM Project; although very positive feedback had been received from Australia. It would be good to get them onboard.

4. It was agreed that:

- 4.1. The Steering Committee would be consulted in a timely manner, and given the opportunity to influence in advance future steps in the DSM Project.
- 4.2. It would be desirable to have the same representative from each PIC participate as Steering Committee member each time – although it was recognised that this may not always be possible.
- 4.3. Each PIC would confirm to Akula who the representative from their country would be.
- 4.4. Country-specific brochures, in addition to the six already produced, would be welcomed

- 4.5. Any data held about Nauru, Palau or Timor Leste's deep seabed minerals should be forwarded to Akuila.
- 4.6. The synergy between the Project and other work of SOPAC should be encouraged and strengthened.
- 4.7. It may be helpful for the DSM Project Team to participate in maritime boundaries meetings, so lessons learned there can be carried into the DSM Project.
- 4.8. Possibilities to co-ordinate DSM vessels and marine survey and research opportunities should be explored.
- 4.9. Akuila would inform country representatives of his proposed country visit schedule. This was likely to prioritise PICs that had already begun a process of DSM policy or legislation development – where the time window for the Project to contribute its support was limited.
- 4.10. PICs participating in the DSM Project could make a request for technical assistance at any time (contact: Akuila).
- 4.11. Pacific Overseas Countries and Territories (OCTs) can join the DSM Project if they wish to. Funds are available under the 10th EDF OCT Envelope and the RAO for the OCTs (currently the President of French Polynesia) has to make a formal request to the EU Delegation to participate. The Steering Committee would welcome OCTs' participation in the Project provided that funds are made available under the OCT Envelope.
- 4.12. Transparency as to the budget and expenditure of the DSM Project was important. Akuila would circulate to all Steering Committee members by email a copy of the DSM Project Contribution Agreement.
- 4.13. Australia and New Zealand's interest to engage with the DSM Project should be explored.
- 4.14. The next comprehensive DSM Report update would be provided at the October 2011 SOPAC Heads of Geoscience meeting in the Cook Islands. Updates would be provided, where appropriate, by email in the meantime.

ANNEX 4

List of the Technical Steering Committee members for the Pacific Marine Minerals Assessment

Name	Designation	Organisation	Country
Dr James Hein	Senior Scientist	USGS	USA
Dr Sven Petersen	Senior Scientist	IFM-GEOMAR	Germany
Prof Chuck Fisher	Professor of Biology	Pennsylvania State University	USA
Dr Malcolm Clark	Principal Scientist	NIWA	New Zealand
Dr Linwood Pendleton	Director of Economic Research	Duke University	USA
Mr Michael Lodge	Legal Counsel	ISA	Jamaica
Dr Samantha Smith	Environment and Community Manager	Nautilus Minerals	Australia
Mr Robert Heydon	Vice President	NORI	Australia
Mr Harry Kore	Director - Legislation Development	DMPGM	PNG
Daniel Dumas	Head of Economic and Legal Section	Commonwealth Secretariat	UK
Dr Julian Roberts	Adviser - Ocean Governance	Commonwealth Secretariat	UK
Mr Charles Avis	Conservation Director	WWF	Fiji
Dr Jan Steffen	Regional Marine Program Coordinator	IUCN	Fiji
Dr Elaine Baker	Program Coordinator	UNEP/GRID-Arendal	Australia
Dr Yannick Beaudoin	Head of Marine Program	UNEP/GRID-Arendal	Norway
Ms Anne Solgaard	Resource Economist	UNEP/GRID-Arendal	Norway
Dr Arthur Webb	Deputy Director - OIP	SPC	Fiji
Mr Akuila Tawake	DSM Project Team Leader	SPC	Fiji
Ms Hannah Lily	DSM Project Legal Adviser	SPC	Fiji