



PACIFIC ADAPTATION TO CLIMATE CHANGE KOSRAE STATE, FEDERATED STATES OF MICRONESIA

“To reduce vulnerability and increase the adaptive capacity to the adverse effects of climate change in the coastal zone management sector”

Multipartite Review Meeting & 2nd Technical and Operational Support Workshop

From August 7-12, Mr. Simpson Abraham and Mr. Weston Luckymis, from the Dept. of Transportation & Infrastructure; attended the 3rd Multipartite Review Meeting and the 2nd Technical and Operational Support Workshop held in Nauru.



Shoreline evaluation

Kosrae Shoreline Management Plan Review

From July 7-9, we received a visit from three consultants on coastal erosion. Mr. Doug Ramsay, a coastal engineer from the National Institute of Water and Atmospheric Research Ltd. in New Zealand; Dr. Arthur Webb, a coastal process advisor from SOPAC in Fiji; and Mr. Fenno Brunken, a climate change advisor with the German Technical Cooperation Agency, based in Pohnpei. Mr. Ramsey knows Kosrae’s coastline very well, he spent two years (1998-2000) studying our coastline. He wrote the Kosrae Shoreline Management Plan in 2000. On their first day on the island, they went around the island to see the shoreline and its vulnerabilities. On the 9th, they met Kosrae’s Governor, Hon. Lyndon Jackson and other stakeholders. They shared some recommendations on what is needed to become more resilient to damage by storm surges, as relocation of the coastal (main) road and other infrastructures to higher grounds.



Loss and Damage surveys

Loss and Damage Survey

The first week of August, the ten enumerators finished the questionnaires in 364 households in the coastal areas of Kosrae. They collected information about the impacts of coastal erosion and high tides from the residents. Also, 15 in depth were done by the SPREP consultant, Ms. Iris Monnerau. These interviews were about the effects of coastal erosion on fisheries, cultural sites, tourism, business, state laws and others. The results of the interviews are being analyzed and will be presented by Mr. Abraham and Ms. Monnerau next November in the Convention of Parties of the United Nations Convention on Climate Change. This data will inform decision makers about the current situation in Kosrae and will add important information for project proposals and grant seeking.

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Gender meeting

PACC Gender Assessment

Another assessment was made during this quarter. SPREP's consultant, Mrs. Sarah Whitfield, came from September 11-14 to examine the project from a gender perspective. She met with women's, youth groups and a family that lives next to the pilot project.. She gather information on the gender roles in our society and how the FSM PACC pilot project addresses these issues. Some of her preliminary findings were that many women did not have an idea of the projects scope. Her recommendations will help us improve target gender related issues of our project



Mr. Hunnam meet with the project engineer

PACC Project Midterm Review

Mr. Peter Hunnam, a consultant from SPREP, visit us from September 15-18. He met with Mr. Abraham, the PACC Project Steering Committee and other stakeholders. He revised all aspects of the project especially the climate proofing of the Okat road.



Kosrae State Fair

Kosrae State Fair

Kosrae had the State Fair during September 20-21. Farm produce and fishermen catch was displayed during those two days. The PACC Project had a display on the fair. We displayed and announced the beginning of a weak to moderate intensity El Nino current last August and the prediction of less rainfall from December until April next year. We used the Climate Change flipchart to explain the differences between El Nino and La Nina currents and their effects on our region. The majors of the four municipalities and the radio station were informed and asked for the dissemination of this prediction. The radio began announcing it on September 24. Prediction updates will be spread as new information arrives.



Using fallen trunks for protective walls

Walung Community

The Walung Community is experiencing the loss of their coast and flooding during storm surges. Because of the erosion, many coconut palms have fallen. These have been used to construct sea walls. Also, people are building their homes raised in stilts to avoid inundation.



Building the house on stilts

Malem Village Climate Change Vulnerability Meeting

On August 20, we were invited by the environmental NGO, Kosrae Conservation and Safety Organization, to meet with the Malem community. The purpose of the meeting was to talk about the municipality coastal and upland vulnerability to climate change. We used the Climate Change flipchart for the participants to visualize good and bad practices. Afterwards, we split in groups to gather their thoughts on their resources and climate and non climate threats. Malem Community is organizing to declare protected areas in the coastal-marine and upland(watershed) environments.



Malem vulnerability

Kosrae Girl Scouts

On August 2, the FSM PACC office received a request for a presentation on climate change adaptation. Carlos Cianchini went to Awane Marine Park in Lelu, where the girl scouts were camping. Forty six girls and five leaders attended the presentation on adaptation measures for expected changes in climate. We used the Climate Change flipchart to tell the girls how healthy environments made us less vulnerable to the changes. The presentation venue was the marine park area, which gave us the opportunity to include a short field trip and give examples of adaptation and good practices to become more resilient.



Kosrae Girl Scouts

The girls made skeet, which was presented during a Talent show, attended by over 500 people of all ages. They talked about the importance of protected areas to be less vulnerable to changes in climate.

Project Quarry Site

Not much work on pilot project site during this quarter due to unsecured quarry sites. A new quarry site has been identified and material analyzed. Material can be used for embankment fill. The excavation was suspended and probably will resume after final negotiation on the price is agreed upon land owner and PACC Project Manager.

Reducing the Use of Gasoline for Transportation

When you visit Utwe municipality, you will notice lots of bicycles in the road. Kids, young and older people used this mode of transportation. People here is burning calories instead of gasoline, making them more healthy and saving money with less pollution generated.



Bicycles at Utwe's School

Pilot Project Accomplishments



3ft. Diameter HDPE pipes

Quantity estimates and design of headwalls located in deep road sections are ongoing for RS-3. The completed reinforced concrete box culvert design, straight line diagram and box culvert quantity take off are completed for RS-4. Excavation work and pipe laying for cross –drainage structures in RS-3 is ongoing. Three feet diameter HDPE pipes are being laid out in selected locations.

Pressure Transducer Damaged



Water inside the transducer

On August 4th, while inspecting our climatological equipments, we found that the pressure transducer was not working. We found that water got inside the probe. We took it out and send it to the National Institute of Water and Atmospheric Research Ltd. in New Zealand to be fixed or replaced. The pressure transducer measure changes in water pressure that give us the measurements of the tides. This transducer was installed in Okat's Dock, and is a temporary placement. This equipment is to be deployed for a year in different places around Kosrae. Another pressure transducer is installed permanently in Lelu's Marina. Other meteorological equipment is installed in the Kosrae Airport premises, and includes a rainfall gauge and solar radiation meter.

Visit our blog at fsmpace.blogspot.com for the latest news and leave us your comments

The PACC Newsletter is a quarterly publication to share the project achievements and news to our stakeholders and colleagues. It is written, revised and edited by the PACC project coordinator and assistant. The photos were taken by Carlos Cianchini unless credited to another person.

ABOUT PACC FSM:

The Federated States of Micronesia is part of the 14 member countries under the Pacific Adaptation to Climate Change Project. PACC FSM is adapting coastal road designs to take into consideration the impacts of climate change. The Project is implemented by the United Nations Development Programme in partnership with the Secretariat of the Pacific Regional Environment Programme. It is funded by the Global Environment Facility and the Australian Government. For more information click on link: [PACC FSM](#)



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