



Multipurpose National Forest Inventory Workshop on “Research and Publication Strategies and Quality Control ”

(As of 20-01-2017)

Date: February 6th to 9th February 2017

Venue: PNG Forest Research Institute, Lae. Morobe Province

Background

Papua New Guinea (PNG) geographical landmass includes the eastern half of New Guinea, the islands of New Britain, New Ireland, Bougainville and hundreds of islands and numerous atolls. The country's land area is approximately 463,000 km² and features extreme diverse range of natural environment due to its variation in landforms, rainfall and altitude. Extensive mountain ranges cover many areas and this natural landscape makes up mostly 60 percent of undisturbed forest areas in the country, as revealed by the recent Japanese International Cooperation Agency and UNREDD+ funded remote sensing assessments of PNG's forests. PNG's unique landforms contain the largest tropical island in the world and the third largest tropical rainforest after Amazon and Congo Basins. The country's forest is featured scientifically also as hotspot for biological endemism and diversification.

Natural forest harvesting is a predominate activity in PNG forestry sector, but multiple forest values are also relevant to people of all walks of life. As that recognition grows, Papua New Guineans can enhance PNG's forests, woodlands, trees and biodiversity as a valuable resource in which they can all take great pride. Sustainable management of the country forests for multiple values however continues to pose a great challenge for PNGFA and the forestry stakeholders.

Whilst investment in the forestry sector continued to gather momentum and there are now also growing concerns in PNG to integrate other environment values and services (forest ecosystem services) into the management practices. Climate change agenda has become major driver for managing our forest cover and appreciating the real value of our forestry resources. Concerns for inoperable (or unvalued) forest resources (such as woodlands, swamps, mangrove) continued to increase in popularity, and Papua New Guineans are now beginning to realize the potential of forestry to help protect PNG's inoperable forests areas and provide health and education benefits. As a priceless part of our heritage, native inoperable forest areas have also been given the attention they deserve – and that focus will continue. Safeguarding our natural and historic environment is reaping economic as well as environmental rewards.

PNG's global lead in seeking to combat climate change, particularly by proposing measures to realise the carbon abatement set out exciting opportunities to deliver increasing benefits to the people of Papua New Guinea. It is a vision for the sort of forestry we want to see in the future: forestry that touches everyone's life; that helps the economy to grow; provide attractive and

diverse habitats for wildlife; and helps to connects us with our past and future. European Union funded Papua New Guinea Multiple National Forest Inventory Project: “ *technical support to the Papua New Guinea Forest Authority to implement a multipurpose National Forest Inventory*”, set out exciting opportunities to manage PNG’s forests for multiple benefits to the people of Papua New Guinea.

Technical capacity building is recognized as an important agenda to pursue Multipurpose National Forest Inventory into the future. Hence, building PNGFA technical capacity in research output and publication strategies and quality control plans of the National Forest Inventory is considered one of the key technical areas to support a continuous multiple national forest inventory. The outcome is expected to contribute to improving Papua New Guinea’s multipurpose National Forest Inventory, by integrating it with tools and methods to assess the impact of human activities on forest biodiversity and resilience. Additionally, PNG’s NFI is expected to collect the forest data to support the National Forest Monitoring System that PNG is required to establish in order to participate in a future REDD+ mechanism.

Papua New Guinea Forest Authority in collaboration with the Mountain Partnership will be conducting a “Research and Publication Strategies and Quality Control” workshop at PNG Forest Research Institute, Lae in Morobe Province from February 6th to 9th 2017. The workshop is funded by the Mountain Partnership to support PNGFA in the implementation of the biodiversity survey component of Papua New Guinea’s National Forest Inventory.

Workshop Objectives and Outcomes

The primary objectives of the workshop are:

- To build the technical capacity of Papua new Guinea Forest Authority and the internal stakeholders on research output; the publication strategy, and a quality control plan for the NFI Project, and;
- To present the progressive status of the National Forest Inventory, and the intended Implementation Plan.

The expected outcomes include:

- Develop the research and publication strategies and a quality control plan for the NFI Project.

Workshop Program

Time	Title	Presenter
8:00am	Registration	
Day 1: Opening Session Chaired by Dr Martin Golman, acting <i>Director, PNG Forest Research Institute</i>		
08:45am - 9:00am	Welcome remarks	Mr. Tunou Sabuin <i>Acting Managing Director, PNG Forest Authority</i>

09:00am - 10:00am	Key note statement by the University of Queensland Key note statement by Sapienza University (<i>presentation time includes 10 mins Q + A</i>)	Professor Paul Dargusch Professor Fabio Attorre
10:00 - 10:30am	Photo session followed by coffee/tea break	
Session 1: Update on National Forest Inventory Project Chaired by Dambis Kaip, <i>PNG Forest Authority</i>		
10.30 – 10:45am	Tribute to late Roy Bank	Robert Kiapranis/K. Damas
10:45 - 11:15am	Part 1: Quality Assurance presentation	1. Nick Leseberg PhD Candidate, UQ
11:15 – 12:15pm	Part 2: Panel discussion on Quality Assurance	Professor Paul Dargusch
12:15pm - 1:00pm	Lunch	
Session 2: National Forest Inventory Research Products Chaired by Constin Bigol, <i>PNG Forest Authority</i>		
1:00pm - 1:30pm	Summary of NFI Project Progress (<i>10 mins Q + A</i>)	Hitofumi Abe <i>FAO</i>
1:30 - 1:50pm	NFI design, forest stratification and outcomes (remote sensing based) (<i>5 mins Q + A</i>)	Gewa Gamoga PNG Forest Authority
1:50 – 2:10pm	NFI field methodology (NFI Manual) – Upper plants (<i>5 mins Q + A</i>)	Bruno Kuroh / Ledino Saega <i>PNG FRI + FAO NFI</i>
2:10 – 2:30pm	Non-Tree Plant Diversity (<i>5 mins Q + A</i>)	Michele de Sanctis <i>Sapienza University</i>
2:30 – 2:50pm	Zoological assessment (Vertebrate assessment/Invertebrate) (<i>5 mins Q + A</i>)	Bradley Gewa and Dr. Katrine Sam <i>NG Binatang Research Centre</i>
2:50 - 3:10pm	National Forest Inventory Data Management System (<i>5 mins Q + A</i>)	Lauri Vesa <i>FAO</i>
3.10 – 3.30pm	Coffee/Tea Break	
3:30pm - 3:50pm	National Forest Inventory Preliminary Data Analysis (<i>5 mins Q + A</i>)	John Pena <i>FAO NFI Project</i>

3:50pm - 4:10pm	PNG National Forest Monitoring System (5 mins Q + A)	Elizabeth Kaidong <i>PNG Forest Authority</i>
4:10pm - 4:30pm	Preliminary outcomes of soil assessment in National Forest Inventory (5 mins Q + A)	Patrick Nimiago <i>PNG Forest Research Institute</i>
4:30pm - 4:40pm	10 mins Q & A for Session 2	
Day 2: Session 3: National Forest Inventory Scholarship Presentations Chaired by Robert Kiapranis/Michael Poesi, <i>PNG FRI + FAO NFI</i>		
8:30am – 9.00am	Part 1: Research and Publications Strategy presentation	1. Professor Paul Dargusch
9.00 – 10:00am	Part 2: Panel discussion on Research and Publication Strategy presentation	Nick Leseberg, PhD Candidate
10:00 – 10:30am	Morning Coffee/Team Break	
10:30 - 10:50am	Forest Policy Now and for the Future	Dambis Kaip
10:50 - 11:10am	Measuring Forest Land Use Change in PNG between 2000-2015	Gewa Gamoga
11.10 – 11:30am	Developing model approach for assessing and quantifying levels of deforestation and forest degradation for addressing REDD+ in PNG	Perry Malan
11:30 – 11:50 am	Land use and land cover analysis and mapping of dominant tree species in lowland forest: A case study of Oomsis forest, Morobe Province	Maman Tavune
11:50 – 12:10pm	Indigenous traditional knowledge of forests	Constin Bigol
12:10pm -1:10pm	Lunch Break	
1:10pm – 1.30pm	Estimating Above Ground Forest Carbon Stocks (Aglb) from Four Major Forest Types in Papua New Guinea	Bruno Kuroh
1:30pm - 1:50pm	Effects of Human Disturbance on Liana Diversity and Structure in a Tropical Montane Rainforest in Papua New Guinea's Highlands Provinces: Implication for Conservation	Miller Kawanamo
1:50pm – 2:10pm	Patterns of Fern Species Richness and Beta Diversity in Highlands Ecosystems of Papua New Guinea	Gibson Sosanika
2:10pm – 2:30pm	Fruit fly Community Observation and Assessment in Forests of PNG Highlands Provinces– a Biodiversity	Redley Opasa

	Component of the PNG National Forest Inventory	
2:30 – 2:50pm	The Effects of Habitats on Birds Communities in Different Elevations throughout Papua New Guinea: Exploration of Beta-Diversity, Alpha-Diversity and Abundance	Bulisa Iova
2:50pm - 3:10pm	Q & A Scholars' presentations	
3:10pm – 3:30pm	Afternoon Coffee/Team Break	
3:30pm – 4:00pm	NFI implementation Plan (10mins Q & A)	Gewa Gamoga
4:00 pm	Closing statement	Dr Ruth Turia <i>Director of Forest Policy and Planning, PNGFA</i>
	END OF PRESENTATIONS	

Day 3 **Field demonstration of NFI in a forest near Lae (Oomsis)**

Day 4 **Field tour of forest sites around Buang area (Sam Nalish to lead on this mission)**

Workshop Participants

No.	Names of participants	Organization
1	Dr. Ruth Turia	PNG Forest Authority
2	Constin Bigol	
3	Gewa Gamoga	
4	Dambis Kaip	
5	Elizabeth Kaidong	
6	Ledino Saega	
7	Samuel Gibson	
8	Perry Malan	
9	Mark Mark Betuel	PNG FA Regional Offices + Divisions
10	Ori Renagi	
11	Jerry Kowin	
12	Peter Lat	
13	Fabian Niulai	
14	Danald Tarere	
15	Waria Andasua	
16	Timothy Palpali	
17	Kevin Turbarat	
18	Wape Pundiap	
19	Phillip Pomoso	
20	Jim Silu	
21	Dr. Martin Golman	PNG Forest Research Institute
22	Patrick Nimiago	
23	Dr. Cossey Yosi	
24	Nalish Sam	
25	Kipiro Damas	
26	Bruno Kuroh	
27	Miller Kawanamo	
28	Maman Tavune	
29	Kunsey Lavong	
30	Peter Homot	
31	Penniel Lamei	
32	Dr. Simon Saulei	University of PNG Biology Faculty
33	Dr. Gae Gowae	
34	Dr. Balun Lavong	
35	Dr. Larry Orsak	PNG University of Technology Forestry Faculty
36	Haron Jeremiah	
37	Dr. Osia Gideon	
38	Dr. Mex Peki	
39	Dr. Katrine Sam	New Guinea Binatang Research Centre
40	Dr. Francesca Dem	
41	Bradley Gewa	
42	Frank Phillip	

43	Gibson Sosanika	
44	Redley Opasa	
45	Bulisa Iova	
46	James Sabi (or nominee)	Conservation, Environment + Protection Authority
47	CEO (or a nominee)	PNG Eco-Forestry Forum
48	Dr. Abe Hitofumi	FAO National Forest Inventory Project
49	Michael Poesi	
50	John Pena	
51	Posa Terra	
52	Dr. Fabio Attorre	Sapienza University, Italy
53	Michele De Sanctis	
54	Giorgio Grussu	Mountain Partnership
55	Dr. Paul Dargusch	University of Queensland, Australia
56	Nicholas Leseberg	
57	Dr. Mauro Ghirotti	Italian Development Agency
58	Ken Shimizu	FAO PNG Office
59	Carlos Battaglini Manrique De Lara	European Union, PNG Office
60	Tatsuya Watanabe	Japanese International Cooperation Agency
61	Lauri Vesa	FAO