*“***Development of NFMS and MRV system for REDD+ - Learning from Demonstration Activities***”,* presented by the Forestry and Forest Products Research Institute (FFPRI)

21 May 2012

***Presentation #1: Mitsuo Matsumoto,*** *FFPRI (moderator)*

* Side event will focus on NFMS and MRV
* As agreed in Copenhagen, NFMS will require combination of remote sensing and ground measurements
* Will present ongoing FFPRI REDD+ projects estimating forest carbon stocks using a combination of remote and on-the-ground approaches
* On remote sensing, their approach: process cloud-free images, remove effects of seasonality (NDVI values in deciduous forests fluctuate), develop time series of data
* Can standardize SPOT images with an algorithm to remove seasonality effects
* They use object-based classification : SPOT 4– 20 m while LANDSAT has 30 m resolution – this type of classification system helps when using images of varying resolution
* On ground-based measurement – need clear rules for Dbh
* on-ground sampling measurements very good to reduce uncertainty but these techniques require capacity building
* FFPRI is developing new allometric equations in Cambodia and Paraguay using destructive sampling
* Doing a trial ground-based inventory of C stocks by forest type in Peninsula Malaysia
* How many plots are required at national level: 336 plots determined for Cambodia at national level
* Using stock-change method
* Came up with technical guidebook for REDD – “REDD Cookbook” – takes into account IPCC, GOFC-GOLD, UNFCCC decisions
	+ Sample pages presented– for example, explains how to do object-based classification. Will be published this year – will be introduced at COP18; currently, only in prototype version
* Developed an intro to REDD+ DVD primarily for LDCs; includes demonstration of activities on the ground
* Current activities are at a project-scale but to be consistent with UNFCCC, need to scale up to sub-national and national; need guidance to ensure this is done in a robust way – they are working on elaborating guidelines

Q from audience: degradation – how do you account? Repeated ground measurement; not remote-sensing

*Presentation #2, Outcome of International Technical Seminar, Naoko Tsukada, FFPRI*

* “Toward a REDD+ Global Framework: Scaling up Demonstration Activities” – title of seminar held this past February
* IGES/ITTO moderated – 2-day workshop in Tokyo; 230 participants from 11 REDD+ countries; REDD+ technical experts presented
* Outcomes:
	+ Innovative methods and promising research are being developed
	+ Strong political commitment is key
	+ Scaling up will be a big challenge
		- Recognized that jurisdictional nested REDD+ can enable scaling up; this is a potential solution
	+ Capacity building at all levels is needed
		- Specifically referred to: REDD+ Cookbook, Ecosystems Carbon Toolkit (Winrock); both recognized as important tools
	+ Also discussed the potential for SFM under REDD+
	+ Importance of broader forest-related issues/multiple functions of forests was recognized
	+ Panel of experts: included Dr. Sarah Walker (Winrock), Naomi Swickard (VCS)– convened to look at future
		- Creation of clear C ownership rights needed
	+ Co-sponsors: the seminar was co-hosted by a number of Japanese ministries, IGES and ITTO
	+ Presentations from seminar can be downloaded from FFPRI website: http://www.ffpri.affrc.go.jp/redd-rdc/en/seminars/reports/2012/02/07/01.html
	+ Planning on hosting a 4th REDD+ technical seminar early next year (Feb 2013 probably)

*Presentation #3: Progress on REL/RL and MRV in Cambodia, Mr. Chivin Leng, Forestry Administration, MRV/REL focal point*

* REDD+ Readiness status:
	+ Components:
		- Consultation process
		- National REDD+ Strategy
		- REL
		- Monitoring system
	+ There’s a REDD+ Management arrangements – a REDD+ Task Force, supported by Secretariat, and there are technical teams focused on particular issues: like safeguards, REL/MRV
	+ The basic method for assessing land-based GHG emissions – Tier 2 approach: AD X EF
	+ Will be moving to Tier 3
	+ 7 ministries are involved with MRV (!)
	+ Cambodia’s initial Nat Comm was in 2004
	+ Have used LANDSAT, classified forest area into 4 classes – time series (3 years of data: 2002, 2006, 2010) for recent historical data
	+ Doing forest inventories through various pilots/projects: WCS, CI, Japanese Research Insititute all conducting pilots
	+ Referenced UN-REDD and JICA work in the country
	+ JICA is supporting NFMS while UN-REDD is supporting REL work
	+ Training on satellite imagery from JICA – outcome: to help country set up protocol of NFM system
	+ Listed key MRV constrainsts: integration of sub-national into national
	+ Forest defs, completeness, consistency
	+ Future steps: Need donor support to re-classify forest to include mangroves
		- High quality satellite analysis that will capture forest degradation – collaborating with FFPRI on this
		- Need a simple, standardized methodology that
		- More research on wood density – which kinds are higher C stock?
		- Understand RIL impacts
	+ Still no def. for degradation established

Kei Suzuki, JICA : Technical Options for REL/RL development – Vietnam example

* Development of interim REL/RL at national scale
	+ JICA study – developing activity data using RS data
	+ EF from Forest inventory
	+ Gives a ref level; trying to take into account national circumstances but it is very difficult
	+ Using both LANDSAT and SPOT
		- Visually interpret and then correct through field surveys
		- For EFs, they have developed tables for C densities for different forest types
	+ Technical options when developing the RL:
		- Either aggregate emissions/removals or look at each separately
			* Carbon stock change vs gain-loss
* Have developed interim REL/RL with activities disaggregated for Vietnam
* Stepwise approach for NFMS
	+ In draft text from SBSTA as of this morning, some parties are proposing step-wise approach as the most appropriate
	+ Define NFMS as consisting of MRV, REL/RL and safeguards
	+ NFMS needs to collect broader info like on drivers and safeguards
	+ Showed an approach to have a step-wise development of NFMS in line with the phases of REDD+
* How do they deal with mosaic forest where plantations are interspersed with natural forest
	+ Different satellite types