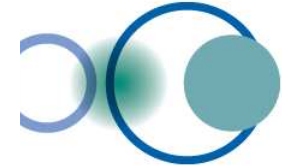


Report on the UN-REDD Workshop on Monitoring, Assessment and Verification

Jinlong Fan

GEO Secretariat
Jfan@geosec.org





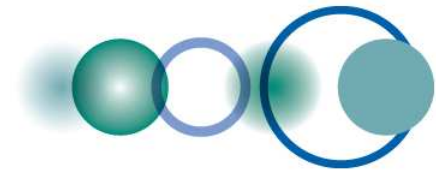
UN-REDD Programme

**REDD-Workshop
MONITORING, ASSESSMENT AND
VERIFICATION**

convened by the UN-REDD Programme

16 - 17 September 2008

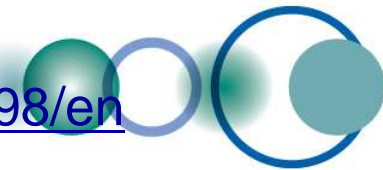
United Nations Foundation
1800 Massachusetts Avenue, NW, Suite 400
Washington, D.C. 20036



UN REDD

a collaborative programme of UN agencies on Reducing Emissions from Deforestation and Forest Degradation to support developing countries

FAO-UNDP-UNEP



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Address <http://www.undp.org/mdtf/un%2Dredd/overview.shtml>

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UN-REDD Programme Fund

UN Collaborative Programme on Reduced Emissions from Deforestation and Degradation in Developing Countries

UN-REDD Programme Fund

- Overview**
- Assistance Strategy
- Governance
- Decision-Making Process
- Participating UN Organizations

Resources

- Donor Contributions
- Donor Pledges, Commitments & Deposits

Projects

- Project/Programmes Approved
- Project/Programmes Commitments and Disbursements
- Project Progress Reports

For more information

Overview

[Framework Document](#)

Secretary-General and Prime Minister of Norway Launch UN-REDD Programme
 Secretary-General Ban Ki-moon (third from left) poses for a group photo with Jens Stoltenberg (third from right), Prime Minister of Norway, and the other participants, following a joint press conference to launch a new initiative to reduce emissions resulting from deforestation and forest degradation.

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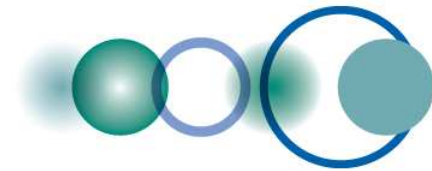
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UN-REDD working papers

1. [Role of Satellite Remote Sensing in REDD - Issues Paper. 13 Oct 2008](#)
2. 2ND working paper will be Report from Washington Meeting on Monitoring & Verification (planned to go online tomorrow)

Role of remote sensing as tool for monitoring, assessment, reporting, verification of carbon credits under REDD

FEEDBACK PLEASE ON PAPERS Identified issues:

1. Define the role of satellite remote sensing
2. Clarify technical opportunities and limitations
3. Secure adequate and relevant data supply
4. Enhance technical and institutional capacities
5. Be flexible as REDD requirements not known

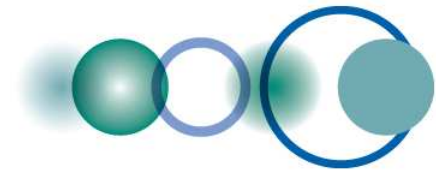
Back Address <http://www.fao.org/forestry/51898/en/>

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United Nations Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation (UN-REDD)

The UN-REDD Programme, implemented by FAO, UNDP and UNEP, has two components: (i) assisting developing countries prepare and implement national REDD strategies and mechanisms; (ii) supporting the development of normative solutions and standardized approaches based on sound science for a REDD



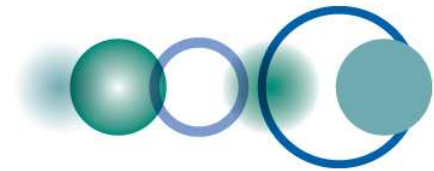
The **objectives** of the workshop

- to develop a **roadmap** with activities regarding monitoring and verification
- to initiate a process to ensure a coordinated framework or guidelines for REDD monitoring, assessment and verification systems.



- 68 participants
- 3 breakout groups (reference emission levels, future M & V, national implementation)

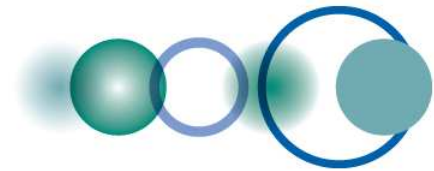




Group 1: Estimating area and carbon stock changes to support the establishment of reference emission levels

needs:

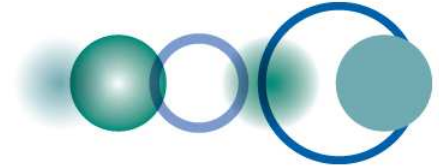
- **Independent international review process**
- **Coordinated approach for capacity building** at national level (i) training on existing methodologies and data, (ii) tools to raise capacity such as manuals and standards, (iii) making best use of existing data;
- **Guidance on interpreting historical trends**
- **Demonstration projects** for establishing and testing forest degradation emission factors
- Estimating past levels of degradation at the national level by combining **remote sensing** areas affected by human activities and **ground observation** of carbon density.



Group 1: Estimating area and carbon stock changes to support the establishment of reference emission levels

Proposed actions:

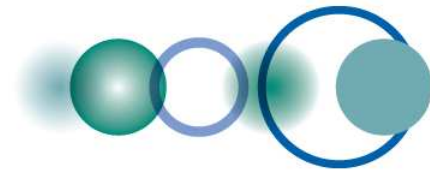
- **Review existing experience** with CDM and in Annex I countries for lessons learned to inform the development of an international review process.
- **Develop training** materials and **implement training**, and continued international **coordination and cooperation** (such as FAO, IPCC, GOFC-GOLD, etc)
- **Report on REL options** based on current knowledge activities including examples of applying them at pilot countries (UN-REDD/FCPF), and **another report on review and synthesis** of existing forest **degradation** studies;
- Conduct a review and synthesis of existing forest degradation studies, develop **case studies** at pilot countries to quantify emission factors by **testing IPCC Guidelines** and suggest improvements to IPCC; and
- Conduct **feasibility studies** of estimating **past forest degradation** activities, provide input to the UNFCCC workshop on degradation and encourage follow up actions to address the needs and opportunities identified during the UNFCCC workshop on forest degradation.



Group 2: Future monitoring of deforestation and forest degradation

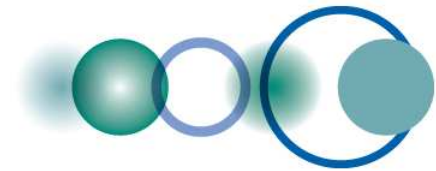
needs/gap

- **Access** to remote sensing data and tools for developing countries;
- **Capacity building** and technical infrastructure for REDD;
- **Methodological needs** regarding monitoring forest degradation and uncertainty assessment;
- Improvement of IPCC Good **Practice Guidance**;
- Increased **on-the-ground** coordination and communication amongst existing and future projects;
- Complementarities of data from **field sampling** and **remote sensing and synergies** with other monitoring needs; and
- **Independent verification.**



Proposed actions

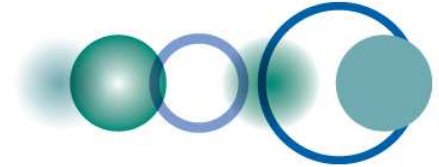
- Review **lessons learned** from a) monitoring in CDM projects, b) existing efforts to monitor deforestation and forest degradation, c) verification/review process in the context of UNFCCC process;
- **Conduct studies** on a) options to monitor co-benefits, b) ways to incorporate REDD needs in UNFCCC review process for GHG inventories, c) successful examples effectively combining field sampling and remote sensing and develop guidelines for suitable inventory designs;
- Establish a consistent **REDD capacity building programme** at regional and national level including REDD awareness workshops and trainings on GHG inventories, remote sensing and field sampling for REDD; and improve required infrastructure;
- Improve **access to data and tools** through a) comprehensive website with links to existing databases for REDD fed into UNFCCC site, b) creation of a free REDD remote sensing toolbox, c) aggregation of remote sensing data needs of several countries for negotiations with data providers;
- Conduct an **in-depth assessment** of available tools and methods for monitoring forest degradation and identify needs for further development (e.g. disturbance emission factors), but also test applicability of existing methodologies more broadly in the field;
- Establish **independent datasets** for verification and create a transparent, multistakeholder process; and
- **Improve communication**(NGO, local communities and indigenous people) and guarantee that these groups are involved on the collection data, monitoring and verification and not just as data users.



Group 3: Implementation at national level

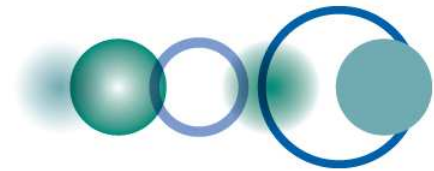
three broad scenarios:

- 1) Status quo – a fragmented approach, with different countries undertaking different initiatives at different levels,
- 2) Agreement in Copenhagen that international community will establish some sort of good practice built from existing activities,
- 3) Agreement in Copenhagen for a pro-active REDD mechanism.



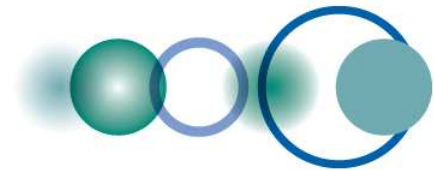
1. Establish/strengthen national data management infrastructure:

- **Political commitment** (such that financing and resources are made available), legislative mandate, institutional arrangements;
- **Forest carbon/ terrestrial carbon accounting systems infrastructure;**
- **Assess and clarify land tenure issues** in line with international norms;
- **Strengthen links** between regional systems, national systems and intergovernmental body for data supply, capacity building and standards;
- **Develop/establish national registry;**
- **Develop or strengthen a system** that will house all information gathered – e.g., forest resource information system;
- Linking national data management infrastructure to **forest law** enforcement including legal and regulatory instruments; and
- **Transparency/accountability** - strengthen public access to data and information services, mainstream forest monitoring information in national statistics services.



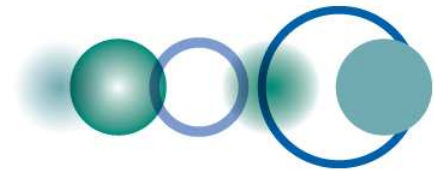
2. Address data supply requirements – both remote sensing and inventory; and deforestation and degradation

- Document/map biomes;
- Ensure ability to track land area change (data readiness);
- Consider stratification;
- Identify carbon pools;
- Study the effect of various kinds of forest land use management approaches on carbon stocks;
- Map co-benefits; and
- Map, identify, define role of local stakeholders (e.g. land ownership, income other variables necessary to establish baseline).



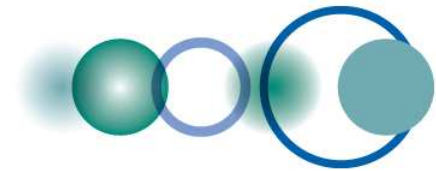
3. Capacity building for monitoring and verification

- Training on IPCC GPG and others;
- Carbon accounting;
- Policy setting;
- Institutional strengthening;
- Law enforcement and cooperation and coordination between national agencies and links to regional and international enforcement bodies;
- Local communities and indigenous institutions, and NGO's;
- For both national and sub regional level, remote sensing and field inventories, information management and analysis, and statistics services; and
- Training for governments on implementation of the UN Declaration on the Rights of Indigenous Peoples (UNDRIP) (e.g. prior informed consent, resource rights etc).



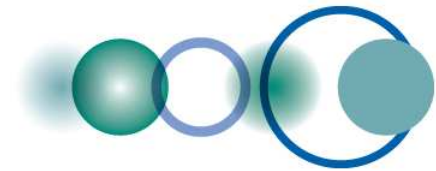
4. Establish stakeholder processes

- inform/shape monitoring and verification in the broader REDD context;
- Awareness (e.g. traditional knowledge) and information;
- Constituency/confidence building;
- Roles and responsibilities;
- Consider payment structures;
- Create mechanism/process to link policy makers, resource users/dependents, and scientists/experts to address nationally specific questions and commission relevant studies (e.g. linking land tenure, land management and monitoring, participatory measurement);
- Explore establishment of national REDD consultation groups;
- Inter-sectoral cooperation landscape planning;
- Further opportunities for linking research and policymaking regarding forest degradation.
- Guarantee over-arching actions, including support implementation of a third party monitoring and verification process, at national and international level



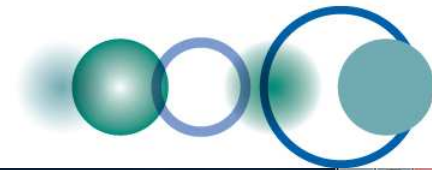
5. Next steps for donors/partners in supporting national implementation

- Country missions to scope monitoring and verification needs;
- National planning guidance for monitoring and verification;
- Coordination with existing initiatives/methodologies.



Common Points

- Access to Data and Tools
- Integrating RS and In-situ
- Pilot Projects
- Experience and Lessons learned sharing
- Capacity Building
- Degradation
- Coordination



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http://redd.wetpaint.com/

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REDD Roadmap Home

REDD Monitoring and Verification Roadmap to UNFCCC COP-15 Copenhagen and Beyond

About the Roadmap

- The purpose of the Roadmap is to provide an overview of the monitoring and verification needs of developing countries and the international community, as well as activities planned and needed to make REDD monitoring and verification work.
- The Roadmap was set up by the UN-REDD Programme based on the outcomes of the Workshop on REDD Monitoring, Assessment and Verification organized by the UN-REDD Programme in Washington, D.C. on 16./17. Sept. 2008 but is intended to serve and support the global REDD community. The UN-REDD Programme facilitates the processes and community participation, and everyone is invited to edit, update, and maintain this roadmap.
- The Roadmap is a living document and anyone can edit the Roadmap. Please add a new action item if you can't find it in the Roadmap.
- Please add your activities, meetings, and initiatives that correspond to each action item in the Roadmap. If you are planning a REDD event/meeting, please also add it to the [REDD event calendar](#).
- You can also discuss the further development of the Roadmap in the [Discussion Forum](#).

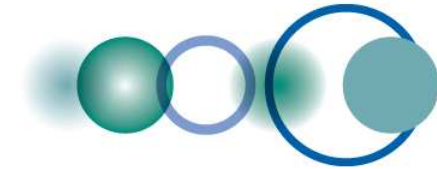
Roadmap Navigation

The Roadmap is separated into the following broad categories. Click on each category to access the respective table.

- [Data](#)
- [Tools](#)

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Roadmap is available on <http://redd.wetpaint.com>



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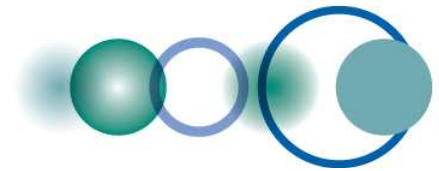
Nov 2008 - REDD Roadmap

Nov 2008

Date	Organizer	Location	Title	Additional info
4-7 Nov 2008	Geo Forest Monitoring Symposium Secretariat	Foz do Iguacu, Brazil	GEO Forest Monitoring Symposium	
6-7 Nov 2008	UNFCCC	Rio de Janeiro	Meeting on experiences with performance indicators for monitoring and evaluation of capacity-building	
9-14 Nov 2008	The United Nations University, Traditional Knowledge Centre, Tebtebba, UN-REDD Programme, and the CBD Secretariat	Baguio City, Republic of the Philippines	Reducing Emissions from Deforestation and Forest Degradation (REDD): Impacts on Indigenous and Local Communities	
10-12 Nov 2008	UNEP	Kuala Lumpur	Ad-hoc intergovernmental and multi-stakeholder meeting on an Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)	
10-14 Nov 2008	United Nations Forum on Forests secretariat	Vienna	Ad Hoc Expert Group (AHEG) meeting on finance	
12-14 Nov 2008	GfGI, ISDE and partners	Potsdam, Germany	Digital Earth Summit on Geoinformatics: Tools for Global Change Research	
12-14 Nov 2008	CBD	Baguio, Philippines	Global Indigenous Peoples' Consultation on Potential Impacts of "Reducing Emissions from Deforestation and Forest Degradation (REDD)" on Indigenous and Local Communities	
17-21 Nov 2008	UNCBD	London	First meeting of the Ad Hoc Technical Expert Group on Biodiversity and Climate Change (will focus on Vulnerability and Mitigation, including REDD)	
26-28 Nov 2008	FAO, Forestry Department	Rome	Expert Consultation on National Forest Monitoring and Assessment (NFMA): Meeting Evolving Needs	

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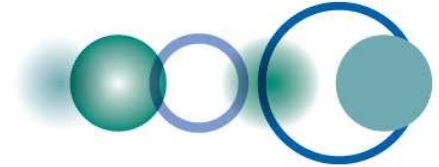
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Peter Holmgren
Environment, Climate Change and Bioenergy Division
Food and Agriculture Organization of the United Nations (FAO)
peter.holmgren@fao.org

Tim Clairs
Bureau for Development Policy, Environment Group
United Nations Development Programme (UNDP)
tim.clairs@undp.org

Tim Kasten
Division of Environmental Policy Implementation
United Nations Environment Programme (UNEP)
tim.kasten@unep.org



The UN REDD initiative and GEO

- **UN-REDD initiative only recently formalised**
- **the UN system (FAO and the UN-REDD Programme) is working on improving the data supply, plus information and products for users e.g.**
 - **an information framework to supply Landsat for FRA**
 - **supporting international (eg FRA) and national (REDD, NFMA) level initiatives, including also beyond forestry (land degradation, land use change and other policy uses...)**
- **Keen to work with GEO to link to remote sensing data providers**
 - **coordination, standards, access to large area, low cost or free data supply**
 - **initial positive discussions held, follow up meeting late Nov**

Thank you!

