

REDDcompass

Guiding you through REDD+

Carly Green
MGD Component Manager

Launching THURSDAY



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Guiding you through REDD+

Welcome to REDDcompass.

Progressively work through the key themes, concepts and actions of REDD+ National Forest Monitoring Systems (NFMS) for Measurement, Reporting and Verification (MRV) gaining access to a suite of GFOI methods and guidance, space data resources, training materials and tools along the way.

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Institutional
Arrangements

Policy + Design
Decisions

Measurement +
Estimation

Reporting +
Verification



New REDDcompass Material

Review new guidance and supporting material from the GFOI



Search the MGD

Use the intelligent index tool and gain direct access to relevant methods and guidance specific to your search terms.



Download the MGD

Download PDF and searchable HTML versions of the MGD.






Global Forest
Observations Initiative






GFOI MGD Foundation

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 Search the MGD

Contents Index Search

- * Integrating remote-sensing and ground-based observations for estimation of emissions and removals of greenhouse gases in forests
- * EXECUTIVE SUMMARY
- * LIST OF ACRONYMS
- * SHORT GLOSSARY OF TERMS RELATED TO THE UNFCCC
- * PURPOSE AND SCOPE
- ▼ 1 Design Decisions
 - ▼ 1.1 IPCC greenhouse gas inventory methodologies
 - * Box 1: The IPCC Tier Concept
 - * 1.2 Key category analysis
 - * 1.3 Definition of good practice
 - ▼ 1.4 Design considerations for national forest monitoring system
 - * 1.4.1 Measuring, Reporting and Verifying
 - * 1.4.2 Reference Levels
 - * 1.4.3 Sub-national approaches
 - * 1.4.4 Forest definition
 - * Box 2: Exploring different forest definitions and their impact on developing REDD+ reference emission levels: A case study for Indonesia.
 - * 1.4.5 Use of existing information
 - * Box 3: National Forest Inventories (NFIs)

1.4.2 Reference Levels (16 / 89)

1.4.2 Reference Levels < ^ v >

In 2011, [decision 12/CP.17](#) established that FRELs and FRLs are benchmarks for assessing performance in implementing REDD+ activities, and that they should be set transparently, taking into account historical data, may be adjusted for national circumstances, and should maintain consistency with anthropogenic emissions and removals estimates as contained in each country's greenhouse gas inventory. The same decision invited developing countries to submit reference levels on a voluntary basis. In 2013 the Warsaw COP decided that the FRELs and FRLs submitted under the provisions of [decision 12/CP.17](#) shall be subject to technical assessment. An annex to the COP 19 decision provides information on the scope of the assessment; which includes consistency with emissions and removals estimates of REDD+ activities, how historical data have been used (including any modelling), transparency, completeness and accuracy, consistency of the forest definition with that used for other international reporting, inclusion of assumptions about future changes to domestic policies included in reference levels, pools and gases included and justification concerning why omitted pools and gases were deemed not significant, and updating of information which is contemplated by the stepwise approach already established in [decision 12/CP.17](#).

COP19 recognised the importance of addressing drivers of deforestation and forest degradation, their complexity and their linkage to livelihoods, economic costs and domestic resources. Parties, relevant organisations and the private sector are encouraged to work together to address drivers of deforestation and forest degradation, and to share information including via the UNFCCC REDD+ Web Platform. From a technical perspective, gathering evidence to assess the relationships requires quantification of the effect of drivers on emissions and removals, examples of which include direct causes such as pressure from commercial or subsistence agriculture, commercial timber extraction, fuel-wood collection and charcoal production, conservation and sustainability policies and other policy drivers. Taking drivers into account may be useful in stratification and in ensuring consistency between historical data and reference levels.



Access to Guidance, Training and Tools

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MGD Material

Supporting Guidance Documents

- [FCPF Methodological Guidelines](#)
- [GOFC-GOLD REDD Sourcebook](#)
- [FCMC REDD+ Measurement, Reporting and Verification Manual](#)

MGD Modules

- [Module 1: How the GOFC-GOLD Sourcebook and the GFOI Methods and Guidance Document Relate](#)
- [Module 2: Use of global tree cover and change datasets in REDD+ Measuring, Reporting and Verifying](#)
- [Module 3: Forest reference emission levels and forest reference levels: Extended methodological advice](#)

Training Materials

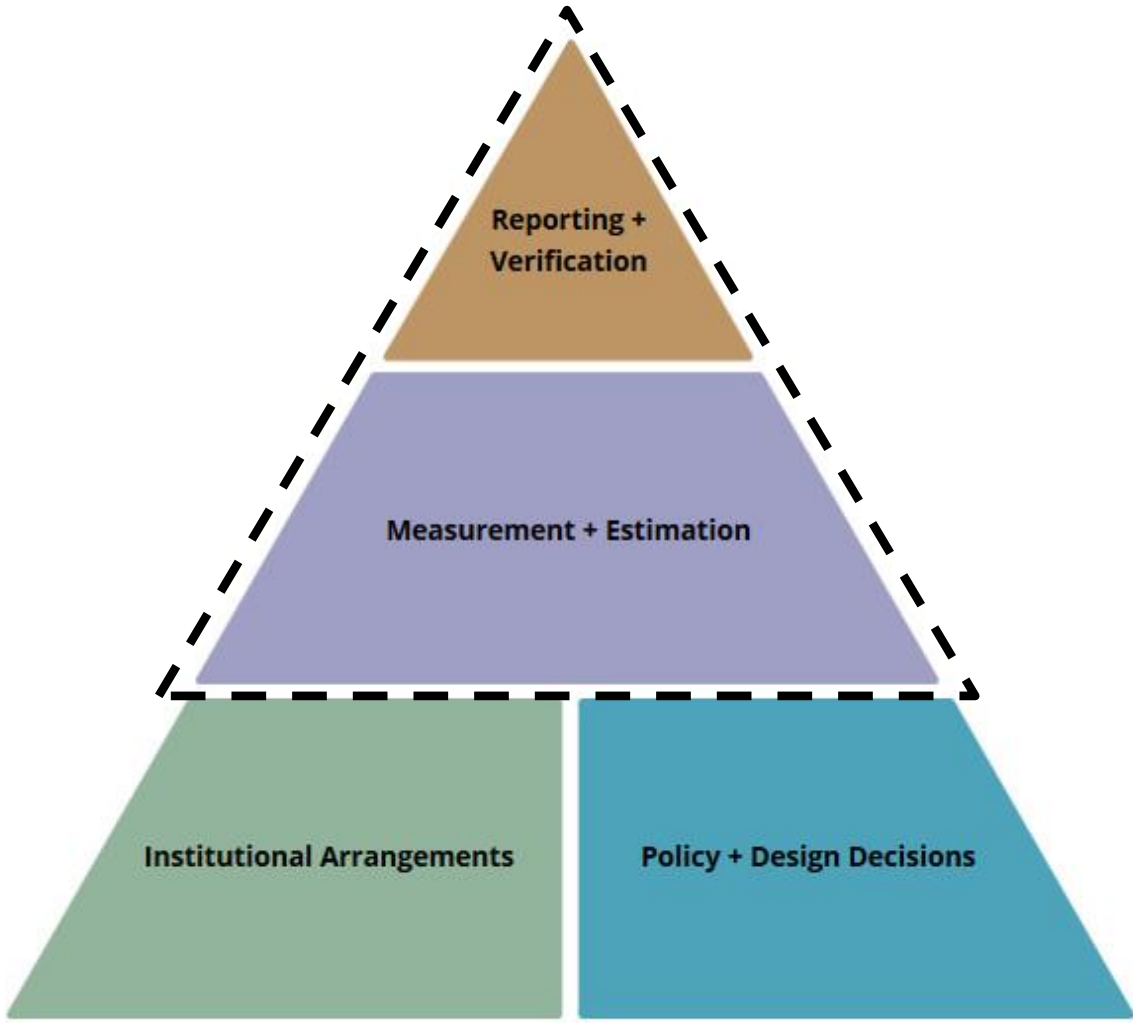
- [FCPF REDD+ Training Material for Forest Monitoring](#)

Tools

- [FCPF REDD+ Decision Support Tool](#)
- [Openforis](#)
- [CEOS Cove Tool](#)
- [BEEODA](#)



National Forest Monitoring System





National Forest Monitoring System Checklist

- **Institutional Arrangements**
 - Forest Policy and Governance (7 Actions)
 - MRV Institutions (8 Actions)
 - Processes (7 Actions)
 - Methods and Tools (5 Actions)

- **Policy and Design Decisions**
 - Forest Definition
 - REDD+ Activities (2 Actions)
 - Carbon Pools (4 Actions)
 - LULC Stratification Scheme (3 Actions)
 - Approaches Methods and Tiers (7 Actions)
 - Spatial and Temporal Scope (2 Actions)



National Forest Monitoring System Checklist

- **Remote Sensing Observations**
 - Remote Sensing Observations (5 Actions)
 - Ground Observations (5 Actions)
 - Uncertainty (6 Actions)
 - Integration and Estimation (4 Actions)
 - Record Keeping (5 Actions)

- **Reporting and Verification**
 - AFOLU GHG Inventory Reporting (1 Action)
 - Non-carbon Related Reporting (1 Action)
 - Reference Levels (1 Action)
 - REDD+ Reporting (1 Action)
 - Internal and External Analysis (6 Actions)



Themes, Concepts, Actions

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Institutional Arrangements

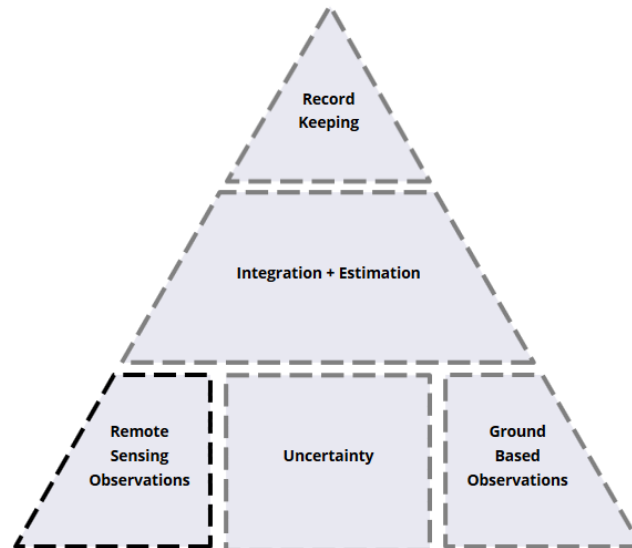
Policy + Design Decisions

Measurement + Estimation










Reporting + Verification

Related Concepts (Marked as )

Remote Sensing Observations



MGD Sections

-  Design considerations for national forest monitoring systems
-  Activity data requirements
-  Area, uncertainties and statistical inference for activity data
-  Guiding principles for remote sensing data sources and methods
-  Methods for mapping activity data
-  Map products estimated from remote sensing
-  Pre-processing of satellite data
-  Remote sensing data sources
 -  Remote sensing data anticipated to be available through GFOI arrangement with the CEOS Space Data coordination group



Action Detail

Actions

Consult remote sensing experts (domestic and international) to identify the most efficient approach for developing activity data.

Show Done

Identify the most appropriate remote sensing data sources to support documented design decisions (i.e. spatial and temporal resolution both historically and into the future; selected forest definitions and REDD+ activities; MRV system development and operational cost).

Show Done

Generate consistent, multi-date, forest area change activity data with associated uncertainty estimates.

Tags:

[Further Action Required](#)

Competency:

[Training Required](#)

Response:

[Landsat will be used as the basis of time series change detection. All available images from the Landsat archive have been acquired.](#)

Related Links

Related Concepts

- [Processes](#)
- [REDD+ Activities](#)
- [Spatial + Temporal Scope](#)
- [Approaches, Methods + Tiers](#)

Related Resources/Tools

- [Open Foris](#)
- [BEEODA](#)

Hide None Specified

Document process to ensure transparency and identify any areas for future development or research.

Show Enter Action State

Implement quality assurance and quality control procedures related to activity data.

Show Enter Action State



Workflow Framework

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Institutional Arrangements

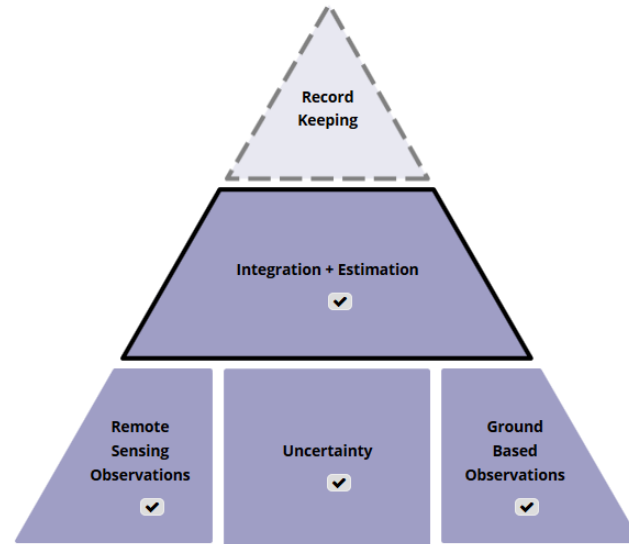
Policy + Design Decisions

Measurement + Estimation

Reporting + Verification

Related Concepts (Marked as %)

Integration + Estimation



MGD Sections

- IPCC greenhouse gas inventory methods
- Selection of appropriate approaches and tiers
- Stock change and gain loss methods
- Tier 3 Methods



Reporting on Progress

MRV System: National

Date Report Created 17 Apr 2016 by user@enviroaccounts.com

Summary Theme Completion Details

Summary

.....



24

Actions Done



3

Training Identified



0

Themes Complete

Theme Completion

.....

Institutional Arrangements

Forest Policy + Governance	0/5
Methods + Tools	0/5
MRV Institutions	0/8
Processes	0/7

Policy + Design Decisions

Approaches, Methods + Tiers	0/7
Carbon Pools	0/4
Forest Definition	2/3
LULC Stratification Scheme	0/3
REDD+ Activities	0/2
Spatial + Temporal Scope	0/2

Measurement + Estimation

Record Keeping	0/4
Ground Based Observations	✓
Integration + Estimation	✓
Remote Sensing Observations	✓
Uncertainty	✓

Reporting + Verification

AFOLU GHG Inventory Reporting	0/1
Internal + External Analysis	0/6
Non-carbon Related Reporting	0/3
REDD+ Reporting	0/1
Reference Emission Levels	0/2

Action Details



Feedback from Users



Its user friendly and gives us access to the MGD even without internet.

 SilvaCarbon
South East Asia Regional Workshop (Philippines)



I really like the way the information was integrated. Its nicely done.

 SilvaCarbon
South East Asia Regional Workshop (Indonesia)



It gives me more a structured view on the available data. Kind of refreshing from the texts.

 SilvaCarbon
South East Asia Regional Workshop (Philippines)

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www.gfoi.org/reddcompass