

TERMS OF REFERENCE OF IPCC PROJECT ON LAND-USE, LAND-USE CHANGE AND FORESTRY (LULUCF)

In response to the decision of IPCC XVII and related decisions and requests from the UNFCCC, the IPCC will develop Good Practice Guidance (GPG) to ensure that country inventories on LULUCF are neither over- nor underestimated as far as can be judged, and uncertainties are reduced as far as practicable and facilitate the best use of available resources, taking different national circumstances into account. The GPG on LULUCF should ensure that countries use the same criteria as listed in the Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories¹.

IPCC will base its work, inter alia, on:

The Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories

The IPCC 2000 Report on Good Practice Guidance and Uncertainty Management

Relevant decisions of the COP

IPCC Special Report on Land Use, Land-Use Change, and Forestry.

In preparing this Terms of Reference, the IPCC has further been guided by the draft decision (L11/Rev 1), paragraphs 3(a) and 3(b). Consistent with this draft decision, a workplan has been developed that provides for completion of this work by COP-9.

The work required has been organised into three technical areas which are briefly summarised below :

- Source-specific good practice guidance on the 1996 IPCC Guidelines for the requirements of the UNFCCC : This work is to be undertaken in response to the request of IPCC XVII and several requests from SBSTA, dating back to SBSTA 8. The proposed work is outlined in Chapter 3 of the attached TOC. This would be consistent with the 1996 Guidelines.
- Elaboration of Methods and Good Practice on Kyoto Protocol Issues : This section has been considered in response to the draft decision FCCC/CP/2001/L.11/Rev1, paragraphs 3(a) and 3(b), and the decision of the IPCC XVII. The approach is outlined in Chapter 4 of the TOC. For eligible land use, land use change and forestry activities under Articles 3.3 and 3.4 of the Kyoto Protocol and for eligible LULUCF project activities under Articles 6 and 12 of the Kyoto Protocol, the IPCC will elaborate (ie identify and address additional or supplementary features) methods and develop good practice guidance, to estimate, measure, monitor and report changes in carbon stocks and anthropogenic greenhouse gas emissions by sources and removals by sinks required to supplement National Greenhouse Gas Inventory practices for eligible activities.
- Underlying Issues of Good Practice: This section responds to the decision of IPCC XVII, and the previous requests of SBSTA. It addresses two key issues. First, an approach to ensure a consistent representation of land areas for use across the source and sink categories, as outlined in Chapter 2 of the TOC. Second, a number of additional cross-cutting issues – including identification of key sources and sink categories, uncertainty analysis, recalculation, QA/QC, and verification are addressed in Chapter 5 of the TOC.

¹ These criteria are: transparency, completeness, consistency, comparability, accuracy and verifiability. These should be applied to inventories of changes in carbon stocks and anthropogenic GHG emissions from sources and removals by sinks.

Good Practice Guidance for LULUCF² Annotated Table of Contents

Chapter 1: Introduction

The report responds to the decision of IPCC XVII (6th April 2001, ITEM (5)B). It provides good practice guidance on how to prepare unbiased LULUCF inventory estimates and reduce uncertainties as far as practicable, while making the best use of resources available. Good practice in LULUCF needs to address characteristic features of the sector, including spatial disaggregation and temporal dynamics, and the requirement to consider carbon stocks and anthropogenic greenhouse gas emissions and removals.

(The structure of the report should be summarised in this chapter.)

Chapter 2: Basis for Consistent Representation of Land Areas

The LULUCF inventory needs a consistent representation of land areas for use across source and sink categories considered. Methodological options include the full spectrum from conventional inventory approaches to remote sensing, GIS based systems and statistical approaches.

- 2.1 Decision tree for selecting among the methods available, taking account of national circumstances including geographic and ecological circumstances and inventory history. Representative data collection within the chosen framework including treatment of missing data reconstructed as described in 5.3.
- 2.2 Good practice in the derivation and application of land use change matrices, including issues such as temporary land cover and rotational land use changes. Good practice in the combination data collected at various time scales such as periodic survey and annual census data and remote sensing data.
- 2.3 Consistency in disaggregation of spatial and temporal subsets of land areas for reporting under the Convention or the Kyoto Protocol.

Chapter 3: LUCF Sector Good Practice Guidance

- 3.1 Overview: Provision of good practice guidance for Chapter 5 of the Revised 1996 IPCC Guidelines, sections 5A-5E. Guidance is consistent with the 1996 Guidelines, while clarifying certain issues such as attribution of soil carbon, providing guidance on how to manage interlinkages among the subsectors 5A-5E and with other chapters of the 1996 Guidelines, especially Chapter 4 “Agriculture”, whilst avoiding double counting, taking into consideration the experience gained in using the common reporting format tables of the UNFCCC.

This chapter addresses methodological issues and reporting specifically linked to the Revised 1996 IPCC Guidelines. For the sections listed below, good practice should be prepared following the format of the IPCC 2000 Good Practice Report (including discussion of methodological approaches and choice among them, factors, parameters and activity data;

² In the 1996 Guidelines, the sector is called LUCF (Land-Use Change and Forestry). LUCF and LULUCF are both used. This document adopts LULUCF except where there is a clear reference to the Revised 1996 IPCC Guidelines, without implying any policy judgement thereby.

completeness and avoiding double counting; development of consistent time series; uncertainty assessment; reporting and documentation; and QA/QC)³. It should be recognised that there is a need for the good practice to clarify the scope and inter-relationships of particular source and sink categories in the LUCF Chapter of the 1996 Guidelines.

3.2 Changes in Forest and Other Woody Biomass Stocks (IPCC 5A):

- 3.2.1 Changes in Biomass⁴
- 3.2.2 Changes in Soil Carbon
- 3.2.3 Harvested Wood⁵

3.3 Forest and Grassland Conversion (IPCC - 5B)

- 3.3.1 Changes in Biomass⁶
- 3.3.2 Changes in Soil Carbon

3.4 Abandonment of Managed Lands (IPCC - 5C): Clarification of the scope and description of this sub-category.

- 3.4.1 Changes in Biomass
- 3.4.2 Changes in Soil Carbon

3.5 CO₂ Emissions and Uptake by Soils (IPCC - 5D)⁷

- 3.5.1 Mineral soils
- 3.5.2 Organic soils
- 3.5.3 Liming

3.6 Others (IPCC - 5E)

- 3.6.1 Other non-CO₂ GHG fluxes
- 3.6.2 GHG fluxes from flooding and wetland drainage⁸

Chapter 4: Supplementary methods and Good Practice Guidance arising from the Kyoto Protocol

4.1. General Overview: This chapter describes the supplementary methods and good practice guidance specifically linked to the Kyoto Protocol and requiring guidance beyond the Revised 1996 IPCC Guidelines. The chapter gives full consideration to the requirements of Article 3.3, as well as choices made related to Articles 3.4, 6 and 12.

³ See the last two sentences in the footnote in the Draft Scoping Paper to Address Request 3(d) outlined in FCCC/CP/2001/L.11/Rev.1.

⁴ This section should cover issues related to forests, plantations, and other land-use (i.e. urban, village forests), all relevant carbon pools (i.e., above- and below-ground biomass, litter, and dead wood), CO₂ and non-CO₂ emissions related to fires, other disturbances, and forest management practices, and provision of any data needed for subsequent consideration under Chapter 4 of this report.

⁵ Treatment of harvested wood products will be consistent with decisions of the COP.

⁶ This section should cover all relevant carbon pools, shifting cultivation, and CO₂ and non-CO₂ emissions, and provide any relevant data for subsequent consideration under Chapter 4 of this report

⁷ This section needs to reconsider all land use and land use transitions not covered elsewhere (i.e., sections 5A to 5C), linkages to Chapter 4 of the 1996 Guidelines, treatment of above-ground carbon stocks (if non-negligible) and linkage to other sectors, clarification of scope and definition of sub-categories, and utility of separating mineral and organic soils.

⁸ May be treated here or under other sections (i.e. 3.2 or 3.5)

- 4.1.1 Identification and stratification of relevant land areas
- 4.1.2 Estimation of C stock changes and non-CO₂ GHG emissions

4.1.3 SPECIFIC REQUIREMENTS OF THE ACCOUNTING SYSTEM REQUIRED

4.2. Methodological issues related to estimation, measurement, monitoring and reporting of changes in carbon stocks and anthropogenic GHG emissions by sources and removals by sinks resulting from LULUCF activities.

- 4.2.1 Afforestation and reforestation
- 4.2.2 Deforestation
- 4.2.3 Forest management
- 4.2.4 Revegetation
- 4.2.5 Cropland management
- 4.2.6 Grazing land management
- 1.2.7 Article 6: Additional/supplementary methodological issues related to estimation, measurement, monitoring and reporting of changes in carbon stocks and anthropogenic GHG emissions by sources and removals by sinks resulting from LULUCF activities under Art. 6.
- 1.2.8 Article 12: Methodological issues related to estimation, measurement, monitoring and reporting of changes in carbon stocks and anthropogenic GHG emissions by sources and removals by sinks resulting from LULUCF afforestation and reforestation including project activities under Art. 12.

Chapter 5: Cross-Cutting Issues

- 5.1. Identification of key source and sink categories required for reporting and resource prioritisation.
- 5.2 Uncertainty analysis in the framework of the overall approach chosen.
- 5.3 Recalculations and reconstruction of missing data using proxy variables for integration into general framework identified under section 2.
- 5.4 QA/QC including procedures for data collection and archiving taking into account the need for transparency and review.
- 5.5 Verification Comparison with independent data sources and techniques specific to LULUCF
Linkage to international scientific programmes and data sets.

WORK PLAN FOR THE TASK 1 OF THE IPCC NGGIP-LULUCF PROGRAMME

GOOD PRACTICE GUIDANCE FOR THE LULUCF

Date	Activity/Review/Event	Objectives	Actions	Expected Output
12-14 March 2002	First Authors/Experts Meeting (full scale)	<ul style="list-style-type: none"> - To discuss initial draft outline for each chapter of the report, paying special attention to consistency and harmonisation requirements. - To explore the availability of science materials - To identify expert gaps - To assign the writing team 	<p>Full consideration of Chapter 2 draft</p> <p>Initial consideration of Chapters 3, 4, and 5</p>	<p>Expanded chapter outlines and listing of key issues for each chapter</p> <p>Zero-order draft of chapter 2</p>
3-14 June 2002	SBSTA Meeting	<ul style="list-style-type: none"> - To report progress of the work 		Any guidance from SBSTA
10-12 July 2002	Second Authors/Expert Meeting (full scale)	<ul style="list-style-type: none"> - To elaborate chapters 3, 4 and 5. - Initial consideration of chapter 1. - To check for consistency among chapters - To plan for the Third Expert Meeting 	Full consideration of chapters 3, 4, and 5	Zero-order draft of the chapters 3, 4 and 5.
September 2002	Third Authors/Experts Meeting (full scale)	<ul style="list-style-type: none"> - To prepare the first-order draft of the report for governments and experts review 	Drafting of the report	First-order draft of the report
November 2002	SBSTA Meeting	<ul style="list-style-type: none"> - To report progress of the work 	Reporting to SBSTA	Any guidance from SBSTA

Date	Activity/Review/Event	Objectives	Actions	Expected Output
December 2002 - January 2003	First governments and experts review (8 weeks)	- To secure governments' and experts' views on the first draft of the report	Review by governments and experts	Views from governments and experts
March 2003	Fourth Authors/Experts Meeting (full scale)	- To address/resolve issues raised by governments and experts on the draft report - To develop the second draft of the report	Drafting of the report	Second-order draft of the report
May 2003 - June 2003	Second governments and experts review (8 weeks)	- To secure governments' and experts' views on the second draft of the report	Review by governments and experts	Views from governments and experts
July 2003	Fifth Authors/Experts Meeting (full scale)	- To address/resolve issues raised by governments and experts on the draft report - To develop the final draft of the report for government consideration	Drafting of the report	Final draft for government consideration
September 2003	Final government consideration (6 weeks)	To facilitate governments' consideration at IPCC Panel	Governments review	Final views from governments
November 2003	IPCC [20/21?]	To accept/approve the Final report	Approval/acceptance	Approval/acceptance of the LULUCF Good Practice Report
December 2003	COP 9	To present the Final Report		

*From July 2002, meetings and governments/experts reviews for Task 2 of the IPCC NGGIP LULUCF programme, "Degradation of forests and devegetation of other vegetation types", will be held parallel to the work plan of the Task 1, aiming for the finalisation of the report by November 2003.

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12 – 14 March 2002

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**First Authors/Experts Meeting on Good Practice Guidance
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