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**FUTURE WORK PROGRAMME OF THE TASK FORCE ON NATIONAL  
GREENHOUSE GAS INVENTORIES (TFI)**

**Decision by the Panel on the outcome of the IPCC scoping meeting held regarding  
the review of and possible update of, inter alia, Chapter 4 of the Good Practice  
Guidance for Land Use, Land Use Change and Forestry**

(Submitted by the Co-Chairs of the Task Force Bureau)

## **FUTURE WORK PROGRAMME OF THE TASK FORCE ON NATIONAL GREENHOUSE GAS INVENTORIES (TFI)**

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### **Proposal to Develop “2014 Revised Supplementary Methods and Good Practice Guidance Arising from the Kyoto Protocol”**

The Co-Chairs of the Task Force on National Greenhouse Gas Inventories (TFI) are pleased to present to the IPCC the following proposal for its consideration. This proposal, endorsed by the Bureau of the TFI, for “2014 Revised Supplementary Methods and Good Practice Guidance Arising from the Kyoto Protocol” is a response to an invitation by the 7<sup>th</sup> session of the UNFCCC Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol (CMP7). This proposal comprises a Terms of Reference, Table of Contents and Work Plan.

### **TERMS OF REFERENCE**

#### **Background**

1. The UNFCCC Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol (CMP) at its seventh session (CMP7), held in December 2011 in Durban, South Africa, invited the IPCC to review and, if necessary, update supplementary methodologies for estimating anthropogenic greenhouse gas emissions by sources and removals by sinks resulting from land use, land-use change and forestry (LULUCF) activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol (KP), related to the annex to 2/CMP.7, on the basis of, inter alia, Chapter 4 of IPCC’s 2003 Good Practice Guidance for Land Use, Land-Use Change and Forestry (GPG-LULUCF).
2. The need to review and update Chapter 4 of the GPG-LULUCF arises for three reasons. *Firstly*, the methodologies contained in Chapter 4 provide the link between IPCC’s general greenhouse gas inventory guidance, and reporting requirements under the KP. CMP7 agreed rules for LULUCF for the second commitment period under the KP which differ in some respects significantly from the rules agreed for the first commitment period, implying the need to update. *Secondly*, since Chapter 4 was intended to be used with the latest IPCC LULUCF guidance updating is needed to take account of the decision of the CMP to use the 2006 IPCC Guidelines<sup>1</sup> for the purposes of the second commitment period under the KP. *Thirdly*, the literature and information on LULUCF projects covered by Chapter 4 is now much more extensive than it was when the existing Chapter 4 was written.
3. The new rules referred to and agreed by CMP7 on LULUCF contain, amongst other things, new provisions on forest management, emissions and removals associated with natural disturbances in forests, harvested wood products, and wetland drainage and rewetting, which are not covered in the existing Chapter 4.
4. The potential need to update Chapter 4 was considered at the *IPCC Scoping Meeting to consider the Invitation from UNFCCC CMP7* that took place in Geneva from 1 to 4 May 2012. The scoping meeting concluded that, whilst much of the structure and the content of Chapter 4 remains relevant and useful, Chapter 4 needs significant updating to take account of the LULUCF decision 2/CMP.7, other relevant decisions by COP and CMP, the 2006 IPCC

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<sup>1</sup> The 2006 IPCC Guidelines for National Greenhouse Gas Inventories

Guidelines, IPCC's work on wetlands<sup>2</sup>, other IPCC products, and the new information now available on projects. The authors should take account of new scientific literature and methods.

## Scope

5. IPCC will update and augment the existing Chapter 4 of the GPG LULUCF, to take account of the 2006 IPCC Guidelines and other IPCC products, the annex to 2/CMP.7, other relevant decisions of the COP and CMP, the current literature on projects covered by the existing Chapter 4, new scientific literature and methods, and the outcomes of the scoping meeting held in Geneva on 1 to 4 May 2012.

## Aim

6. The overall aim of this work is to update and augment Chapter 4 of the GPG LULUCF consistent with the scope identified in paragraph 5, intended for publication as a separate report provisionally entitled "2014 Revised Supplementary Methods and Good Practice Guidance Arising from the Kyoto Protocol". This will ensure continued usefulness of IPCC inventory methods in support of the reporting requirements of the KP during the second commitment period by providing practical guidance to countries in implementing the annex to 2/CMP.7 and any other relevant decisions of the COP or CMP, for example on reporting and accounting.

## Approach

7. The result of this work will be an IPCC Methodology Report using the Outline contained in the Annex.
8. The update will be consistent with the 2006 IPCC Guidelines and not revise or replace the 2006 IPCC Guidelines.
9. The report will provide methodological guidance on scientific and technical issues covered by the scope indicated in paragraph 5 above, consistent with decisions of the COP and CMP.
10. The report will maintain the structure and content of the existing Chapter 4, replacing references to GPG-LULUCF by those to 2006 Guidelines wherever necessary, and adding additional material to existing sections or adding new sections using the Outline (annex).
11. Literature will be considered up to a cut-off date at the start of the Government/Expert Review.
12. There will be a Steering Group appointed by the TFB to ensure consistency with these terms of reference.
13. Table 1 provides the time table for this task.

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<sup>2</sup>ToR of wetlands supplement <[http://www.ipcc-nggip.iges.or.jp/home/docs/1105\\_ToR.pdf](http://www.ipcc-nggip.iges.or.jp/home/docs/1105_ToR.pdf)>

**Table 1 Work plan**

<b>Date</b>	<b>Item</b>
<b>June 6-9 2012</b>	Panel Approval of this proposal
<b>Late June 2012</b>	Request for nominations for authors
<b>Early August 2012</b>	TFB decides Author list
<b>Early October 2012</b>	<b>LA1<sup>3</sup></b>
<b>Late January 2013</b>	<b>LA2</b>
<b>April-May 2013</b>	Expert Review
<b>Late June 2013</b>	<b>LA3</b>
<b>Late August - Early October 2013</b>	Government/Expert Review
<b>Late November 2013</b>	<b>LA4</b>
<b>Jan - February 2014</b>	Government Consideration
<b>Early March 2014</b>	Panel Adoption/Acceptance

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<sup>3</sup> This meeting may be preceded by a meeting of experts.

## Annex

### Table of Contents

#### OVERVIEW

#### 1 INTRODUCTION

**1.1 Overview of Steps to Estimating and Reporting Supplementary Information for Activities under Articles 3.3, 3.4, 6 and 12**

**1.2 General Rules for Categorisation of Land Areas under Articles 3.3 and 3.4**

- *New categorization of natural disturbance*
- *New activities (wetlands drainage and rewetting)*
- *Issues related to reporting conversion (e.g., conversion of natural forest and carbon equivalent forest)*

**1.3 Relationship between Annex I Parties' National Inventories and Article 6 LULUCF Projects**

#### 2 METHODS FOR ESTIMATION, MEASUREMENT, MONITORING AND REPORTING OF LULUCF ACTIVITIES UNDER ARTICLES 3.3 AND 3.4

**2.1 Relationship between UNFCCC Land-Use Categories and Kyoto Protocol (Articles 3.3 and 3.4) Land-Use Categories**

**2.2 Generic Methodologies for Area Identification, Stratification and Reporting**

- *Reporting requirements*
- *Reporting Methods for lands subject to Article 3.3 and Article 3.4 activities.*
- *Relationship between Approaches in Chapter 2 and Reporting Methods in Chapter 4*
- *Choice of Reporting Method*

**2.3 Generic Methodological Issues for Estimating Carbon Stock Changes and Non-CO<sub>2</sub> Greenhouse Gas Emissions**

- *Pools to be reported*
- *Years for which to estimate carbon stock changes and non-CO<sub>2</sub> greenhouse gas emissions 4.31*
- *Reporting and measurement intervals*
- *Choice of method*
- *Factoring out indirect, natural and pre-1990 effects.*
- *Disturbances*
- *Interannual variability*

**2.4 Other Generic Methodological Issues**

- *Developing a consistent time series*
- *Uncertainty assessment*
- *Reporting and documentation*
- *Quality assurance and quality control*
- *Verification*

## **2.5 Afforestation and Reforestation**

- *Definitional issues and reporting requirements*
- *Choice of methods for identifying units of land subject to direct human-induced afforestation/ reforestation*
- *Choice of methods for estimating carbon stock changes and non-CO2 emissions*
- *Methods to address natural disturbance*

## **2.6 Deforestation**

- *Definitional issues and reporting requirements*
- *Choice of methods for identifying units of land subject to direct human-induced deforestation*
- *Choice of methods for estimating carbon stock-changes and non-CO2 greenhouse gas emissions*

## **2.7 Forest Management**

- *Definitional issues and reporting requirements*
- *Choice of methods for identifying lands subject to forest management*
- *Choice of methods for estimating carbon stock changes and non-CO2 greenhouse gas emissions*
- *Methods to address natural disturbance*
- *Forest Management Reference Levels*
- *Technical Corrections*
- *Carbon equivalent forest*

## **2.8 Cropland Management**

- *Definitional issues and reporting requirements*
- *Choice of methods for identifying lands*
- *Choice of methods for estimating carbon stock changes and non-CO2 greenhouse gas emissions*

## **2.9 Grazing Land management**

- *Definitional issues and reporting requirements*
- *Choice of methods for identifying lands*
- *Choice of methods for estimating carbon stock changes and non-CO2 greenhouse gas emissions*

## **2.10 Revegetation**

- *Definitional issues and reporting requirements*
- *Choice of methods for identifying lands*
- *Choice of methods for estimating carbon stock changes and non-CO2 greenhouse gas emissions*

## **2.11 Wetland drainage and rewetting**

- *Definitional issues and reporting requirements*
- *Choice of methods for identifying lands*
- *Choice of methods for estimating carbon stock changes and non-CO2 greenhouse gas emissions*

# **3 LULUCF PROJECTS**

## **3.1 Introduction**

- *Definition of Projects and relevance to Articles 6 and 12*

### **3.2 Project Boundaries**

- **Geographic area**

### **3.3 Baseline**

### **3.4 Measuring, Monitoring, and Estimating Changes in Carbon Stocks and Non-CO2 Greenhouse Gas Emissions**

- **Stratification of the project area**
- **Selection of carbon pools and non-CO2 greenhouse gases**
- **Sampling design**
- **Field measurements and data analysis for estimating carbon stocks and carbon stock changes**
- **Estimating changes in non-CO2 greenhouse gas emissions and removals**
- **Monitoring changes in greenhouse gas emissions and removals from project activities**

**Annex A.1 Tool for estimation of changes in soil carbon stocks associated with management changes in croplands and grazing lands based on IPCC default data**

**Annex A.2 Examples of allometric equations for estimating aboveground biomass and below ground biomass of trees**