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REPORTS

**Expert Meeting for Technical Assessment of IPCC Inventory Guidelines (AFOLU Sector)
13-16 July 2015, São Paulo, Brazil**

(Submitted by the Acting Secretary of the IPCC)
(Prepared by the Co-Chairs of the Task Force Bureau)

REPORTS

Expert Meeting for Technical Assessment of IPCC Inventory Guidelines (AFOLU Sector) 13-16 July 2015, São Paulo, Brazil

Brief Introduction

In accordance with the IPCC Trust Fund programme and budget for the year 2015 (approved by the IPCC at its 40th Session), the Task Force on National Greenhouse Gas Inventories (TFI) is implementing technical assessment of IPCC Inventory Guidelines. This work is to assess where science and data availability have developed sufficiently since the *2006 IPCC Guidelines for National Greenhouse Gas Inventories* (2006 IPCC Guidelines) to support the refinement or development of methodological advice for specific categories and gases, with a view to identifying any specific areas or issues to be prioritized. Another aim is to conduct technical assessments on cross-sectoral issues, including improvement of user-friendliness of other inventory tools of the IPCC with a view to contributing to capacity development programmes. The Expert Meeting for Technical Assessment of IPCC Inventory Guidelines (Agriculture, Forestry and Other Land Use (AFOLU) Sector) was held on 13-16 July 2015, in São Paulo, Brazil, as part of this technical assessment. The TFI extends its appreciation to the Government of Brazil and the National Institute for Space Research (Instituto Nacional de Pesquisas Espaciais – INPE) for the support to hold this meeting.

This meeting was convened in accordance with the conclusion of the 26th meeting of the Task Force Bureau (TFB) held in Ottawa, Canada, on 28-29 August 2014 (see IPCC-XLI/Doc.6, Rev.1). The meeting programme is in Annex 1, and the list of participants is in Annex 2 to this document.

Meeting Summary

This technical assessment of IPCC Inventory Guidelines is being undertaken through a combination of an on-line questionnaire survey and two expert meetings. The on-line questionnaire survey was conducted from 30 January to 27 February, and 243 experts submitted a total of 987 comments to the Technical Support Unit for the TFI (TFI TSU). Out of these 987 comments, 380 were about the Agriculture, Forestry and Other Land Use (AFOLU) Sector.

The São Paulo expert meeting was the second of the two expert meetings following the on-line questionnaire survey. The first meeting held in Geneva in June-July, 2015, is reported on in IPCC-XLII/INF. 7. The São Paulo meeting covered AFOLU Sector. In particular it aimed to:

- assess the maturity of scientific advances and the availability of new data (but not an exact scientific examination of new methodology or data);
- identify any specific areas or issues that should be prioritized in TFI's future work; and
- consider associated cross-sectoral issues identified in the survey.

The meeting considered comments submitted by experts in response to the on-line questionnaire survey, particularly on the issues identified as high priorities through the prior analysis made by the TFI TSU. This was with a view to making recommendations to the TFB on the following:

- Categories for which the science is sufficiently mature and data are available to recommend refinement or development of inventory guidance;
- Where such refinement or development on the basis of this new information would lead to a noticeable improvement of the 2006 IPCC Guidelines and the 2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands (Wetlands Supplement);
- Specific type of refinement or updating that is needed for those categories; and
- How these refinements could be made (i.e., suggested possible way(s) to address issues.

The issues were considered and discussed through two break-out groups (on Agriculture covering categories 3A and 3C, and on FOLU covering categories 3B and 3D), taking significance & prioritization criteria (see Box 1) into account.

Box 1: Significance and prioritization criteria

- Significance of the source/sink and the gas within the sector on a global scale. Sources significant for only a limited number of particular countries currently or in the foreseeable future may not meet this criterion. The adequacy of the existing guidance for a particular category should be considered, as should the likelihood that new information would lead to a definite improvement in the IPCC Guidelines.
- Availability of relevant new scientific results.
- Sufficient data availability and maturity of scientific advances since 2006 to provide a basis for methodological development or refinement, including:
 - Ability to develop new or updated default emission/removal factors
 - Feasibility of obtaining the necessary data to implement the methods
- Emergence of new sources or gases meeting these criteria

Based on the discussion by each break-out group, the meeting participants agreed to forward the recommendations on the future TFI work to the TFB.

Main Meeting Recommendations

The São Paulo expert meeting agreed on a number of issues that need to be addressed in the future TFI work, and recommended that:

- Some of the issues need to be addressed by producing a new Methodology Report(s). For example, it is necessary to refine guidance to reflect significant scientific or technical developments since the *2006 IPCC Guidelines* were completed (e.g., guidance on land representation linking land classification system and digital maps (remote sensing data or GIS data). It is also necessary to update or add default data of emission/removal factors and other parameters for some categories (e.g. values for litter, deadwood; biomass expansion factors (BEF) / biomass conversion and expansion factors (BCEF) for category 3.B; direct N₂O emissions from managed soils for category 3.C.4; indirect N₂O emissions from managed soils for category 3.C.5).
- Some other issues can be addressed by utilizing other means (IPCC Supporting Materials) including the Emission Factor Database (EFDB), TFI's webpage on Frequently Asked Questions (FAQs), and issuance of technical bulletins or expert meeting reports after holding relevant expert meetings.
- Refinements by EFDB and FAQs can start as soon as practicable.
- Some issues require further intensive consideration by relevant experts before starting refinements (e.g., updating of emission factors and other parameters and methodological clarification in Agriculture sector).
- There are several cross-sectoral issues that need to be considered at an expert meeting next year.

In addition, many participants were of the view that there should be a mechanism to update Tier 1 (default) data of emission factors and other parameters more frequently, expressing concern about the fact that default data can be updated or added only through production of new Methodology Reports that have not taken place for many years for most of the inventory sectors and categories.

Details of these recommendations are contained in a TFI Co-chairs' Summary of this meeting that will be published in due course.

Recommendations from the São Paulo expert meeting and those from the other expert meeting held in Geneva, Switzerland on 29 June - 1 July 2015 (see IPCC-XLII/INF. 7 for agenda item 5.7) were forwarded to the TFB. Taking these recommendations into consideration, the TFB discussed the necessary future TFI work, and came up with a proposal for TFI's work programme and budget for 2016 -2018 contained in the document IPCC-XLII/Doc.2, Rev.1, and further explained in the information document IPCC-XLII/INF. 9 for consideration by the IPCC at this session.

The TFB also took note of the views expressed by many participants in the São Paulo expert meeting about the necessity of a mechanism to update Tier 1 (default) data of emission factors and other parameters more frequently. The TFB started discussion on this issue, and has agreed that the discussion should be continued by the new TFB which will be elected at this session of the IPCC.

Expert Meeting for Technical Assessment of IPCC Inventory Guidelines (AFOLU Sector)
13-16 July 2015, São Paulo, Brazil

Meeting Programme

Monday 13 July	9:00 - 9:30	Registration
	9:30 - 10:00	Welcome <ul style="list-style-type: none"> • IPCC TFI Co-Chairs • INPE representative
	10:00 - 12:30	<p>Plenary session (Presentations followed by Q&A)</p> <ul style="list-style-type: none"> • Explanation of the background, objectives and organization of the meeting (TSU) • Overview of results of on-line survey (TSU) <p>Summary of results of on-line questionnaire survey for technical assessment of IPCC Inventory Guidelines conducted in early 2015 were introduced. The aim of this survey was to collect opinions and relevant information from a wide range of inventory experts with a view to:</p> <ul style="list-style-type: none"> -assessing where science and data availability have developed sufficiently since the 2006 IPCC Guidelines for National Greenhouse Gas Inventories (2006 IPCC Guidelines) to support the refinement or development of methodological advice for specific categories and gases, with a view to identifying any specific areas or issues to be prioritized; and -conducting technical assessment on cross-sectoral issues, such as those covered in Volume 1 of the 2006 IPCC Guidelines, including improvement of user-friendliness of IPCC inventory tools with a view to contributing to capacity development programmes. <p>Q & A followed by discussion</p> <ul style="list-style-type: none"> • Discussion on how to organize break-out groups (BOGs) <ul style="list-style-type: none"> -2 BOGs were established. <ul style="list-style-type: none"> ➤ BOG on Agriculture (covering categories 3A & 3C) ➤ BOG on FOLU (covering categories 3B & 3D)
	12:30 - 14:00	– <i>Lunch break</i>
	14:00 - 18:00	<p>1st BOG session</p> <ul style="list-style-type: none"> • High-priority issues identified through the on-line survey were considered and discussed, based on issue papers prepared by TSU. Several presentations will be made at each BOG.
Tuesday 14 July	09:00 - 12:30	1st BOG session (Continuation)
	12:30 - 14:00	– <i>Lunch break</i>
	14:00 - 17:00	1st BOG session (Continuation)
	17:00 - 18:00	<p>Plenary session</p> <ul style="list-style-type: none"> • Discussion on cross-sectoral issues that have emerged from 1st BOG session.
Wednesday 15 July	09:00 - 12:30	2nd BOG session
	12:30 - 14:00	– <i>Lunch break</i>
	14:00 - 18:00	2nd BOG session (Continuation)

Thursday 16 July	09:00 - 10:00	- 2nd BOG session (Continuation)
	10:00 - 12:00	- Plenary session (Discussion based on reports from BOGs & wrap-up) <ul style="list-style-type: none"> • Reports from BOGs • Discussion • Wrap-up discussion to agree on recommendations to Task Force Bureau <ul style="list-style-type: none"> ➤ What to do: List of issues to be prioritized in the future refinement work ➤ How to do: Methodology Reports, EFDB, FAQs, etc. • Closing remarks

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