

SUBSIDIARY BODY FOR SCIENTIFIC AND TECHNOLOGICAL ADVICE

Twelfth session

Bonn, 12-16 June 2000

Agenda item 8 (a)

METHODOLOGICAL ISSUES

LAND-USE, LAND-USE CHANGE AND FORESTRY

Draft conclusions by the Chairman

1. The Subsidiary Body for Scientific and Technological Advice (SBSTA) took note with appreciation of document FCCC/SBSTA/2000/3. The secretariat was requested to issue a corrigendum to this document to correctly reflect data submitted by New Zealand.
2. The SBSTA expressed its appreciation to the Intergovernmental Panel on Climate Change (IPCC) for the preparation of the *Special Report on Land-Use, Land-Use Change and Forestry*, for the IPCC special side event on the report, and for the input of the IPCC authors during the pre-session week of the informal meetings. It requested the secretariat to explore, in collaboration with the IPCC, the possibility of organizing a special briefing on Sunday 9 July 2000 for non-Annex I Parties participating in the SBSTA workshop in Poznan, Poland.
3. With reference to the request made by the SBSTA at its eleventh session for submissions on additional activities under Article 3.4 (FCCC/SBSTA/1999/14, para. 46 (f) and (i)), having given initial consideration to criteria and guiding principles put forward by Parties, the SBSTA further requested Parties to indicate how the proposed additional activities relate to the objective and principles of the Convention and its Kyoto Protocol.
4. The SBSTA agreed to a format for the submission of the country-specific data and information by Annex I Parties (see annex) called for by the SBSTA at its eleventh session (FCCC/SBSTA/1999/14, para. 46 (g), (h), (i), (j)). It requested Parties to provide their submissions no later than the deadline of 1 August 2000. The formats, and the data and information that will be submitted, by no means prejudice decisions or conclusions that may be made by either the COP or the SBSTA at future sessions. In their submissions, Annex I Parties should complete those portions of tables I and III that directly relate to their preferred proposals. Furthermore, the Annex I Parties may provide data and information in relation to other options using tables I and III. The SBSTA decided to consider this data and information at its thirteenth session, in the light of document FCCC/SBSTA/1999/14, paragraph 46 (g), (i) and (k).

5. The SBSTA requested Parties, in preparing the above-mentioned submissions, to provide textual proposals on Article 3.3, 3.4 and 3.7, and explanatory material to provide the context and rationale of these textual proposals. It invited Parties to take into consideration the guidance given to the Chairman, under paragraph 6 below, in preparing their submissions.

6. Considering decision 16/CP.5, the SBSTA requested the Chairman to prepare, with the help of the secretariat, a consolidated synthesis of textual proposals from the above-mentioned submissions, for consideration by Parties at its thirteenth session. This synthesis would be structured according to the elements outlined below:

(a) Proposed definitions and accounting approaches related to afforestation, reforestation and deforestation under Article 3.3;

(b) How and which additional human-induced activities might be included under Article 3.4, including modalities, rules and guidelines related to these activities and their accounting;

(c) Methodologies for measuring and reporting in relation to Article 3.3. and 3.4 activities;

(d) Overall accounting approaches in relation to requirements of Article 3.3, 3.4 and 3.7, reversibility, natural effects, and accounting interlinkages;

(e) Other.

7. The SBSTA encouraged the organization of regional workshops to enhance participation in future land-use, land-use change and forestry meetings.

8. The SBSTA invited the Chairman to convene an inter-sessional consultation after its thirteenth session (11-15 September 2000) to assist in undertaking preparatory work for consideration by the Conference of the Parties at its sixth session in relation to decision 16/CP.5, taking into account the need for transparency and regional balance in representation at that meeting.

9. The SBSTA noted the circumstances surrounding the issues of land-use, land-use change and forestry, particularly the recent availability of the IPCC Special Report and the deadline for submissions on 1 August 2000. The SBSTA recognized that documents for the next sessions may only be available immediately prior to the sessions. It urged Parties to accelerate their consideration of the issue, including the IPCC report, and requested the Chairman to consult widely on the issue.

Annex

This annex provides formats for the submission due on 1 August 2000 of preliminary, country-specific data and information on proposals by Annex I Parties for activities related to Article 3.3 and 3.4 of the Kyoto Protocol. These formats, together with any rules, modalities or guidelines adopted for this annex, or the data and information that will be submitted by Parties using this annex, by no means prejudice decisions or conclusions that may be made by either the Conference of the Parties (COP) or the Subsidiary Body for Scientific and Technological Advice (SBSTA) at future sessions.

The terms and abbreviations used throughout this annex refer to the definitions given in the Intergovernmental Panel on Climate Change (IPCC) *Special Report on Land-Use, Land-Use Change and Forestry* in table 3-1, on pages 130-131 (definitional scenarios) and the section "Land-Based versus Activity-Based Accounting" on pages 130-131 (accounting approaches). For example, the abbreviation "FAO" refers to a definitional scenario where: "A forest refers to a land that has, or will have because of continued growth, more than 10% canopy cover; deforestation is a decline of canopy cover to below 10%, but excludes changes within the forest class; reforestation is artificial establishment of forest on lands that had them previously (including regeneration post-harvest); afforestation is artificial establishment of forest on lands that were not historically forest."

When completing the annex, Parties may modify the definitional scenarios or accounting approaches or use country-specific definitions or approaches. In such cases where the definitions or approaches deviate from those provided by the IPCC Special Report, this should be clearly stated and the applied definitions and/or approaches must be explained in the explanatory text that must accompany each table.

In its submission the Annex I Party should complete those portions of tables I and III that directly relate to its preferred proposals. Furthermore, the Annex I Parties may provide data and information in relation to other options using tables I and III.

Table I - Preliminary data and information provided by Annex I Party on carbon stock changes and areas related to Article 3.3 activities

Article 3.3 Country specific data	Definitions	Accounting framework	a_I (ha)	ΔC_I (t C)	a_{II} (ha)	ΔC_{II} (t C)	a_{cp} (ha)	ΔC_{cp} (t C)	Methods and approaches	Data sources, data quality, and uncertainty (e.g. ranges)	Other information relevant to decision-making
Afforestation Reforestation	IPCC	Activity based									
		Land based									
Afforestation	FAO	Activity based									
		Land based									
Reforestation	FAO	Activity based									
		Land based I									
		Land based II									
Afforestation Reforestation	Other	Activity based									
		Land based									
Deforestation	IPCC/FAO	Activity based									
		Land based									
	Other	Activity based									
		Land based									

- a_I Area (ha) afforested and reforested, or deforested since 1990 up to 1995 or possibly an earlier specific year.
 ΔC_I Carbon stock change (t C) since 1990 up to the same year as used in a_I on land afforested, reforested, and deforested.
 a_{II} Area (ha) afforested and reforested, or deforested since 1990 up to 1999 or an earlier specific year.
 ΔC_{II} Carbon stock change (t C) since 1990 up to the same year as used in a_{II} on land afforested, reforested, and deforested.
 a_{cp} Projected area (ha) afforested and reforested, or deforested since 1990 up to 2012.
 ΔC_{cp} Projected carbon stock change (t C) over the first commitment period on land afforested, reforested, and deforested since 1990 up to 2012.

Methods and approaches

- Specify:
- Forest definition used;
 - Definitions for afforestation, reforestation and deforestation used;
 - Applied accounting approaches;
 - Included carbon pools;
 - Other.

EXPLANATORY TEXT (table I)

Parties should submit information under all headings listed below where the information is relevant to the approach taken in their submission and to the extent that data and methodologies exist.

1. Definitions and accounting:
 - a) Forest,
 - b) Afforestation, reforestation, and deforestation,
 - c) Accounting approaches.
2. Carbon pools included (e.g. above-ground biomass, litter and woody debris, below-ground biomass, soil carbon, and harvested materials);
3. Stratification (e.g. biomes and regions);
4. Methodologies and data:
 - a) Data sources,
 - b) Sampling techniques,
 - c) Models and key parameters,
 - d) Uncertainties.
5. Treatment of non-CO₂ greenhouse gases.
6. Methods and key assumptions in projections for the first commitment period (2008–2012) and discussion, if possible, of trends beyond the first commitment period.

Table II - Preliminary data and information provided by Annex I Party on carbon stocks and area estimates (First sentence of Article 3.4)

<i>Land system</i>	<i>Area (ha)</i>	<i>Carbon stock in 1990 (t C)</i>
Forest lands		
Agriculture lands		
Rangelands/grasslands		
Wetland/tundra		
Other		
Total (as listed above)		

EXPLANATORY TEXT (table II)

Parties should submit information under all headings listed below where the information is relevant to the approach taken in their submission and to the extent that data and methodologies exist.

1. Description of land categories, including any land categories not covered.
2. Carbon pools - distinctions and assumptions.
3. Data sources.
4. Methods.
5. Possible changes in carbon stocks.
6. Uncertainties.

Table III - Preliminary data and information provided by Annex I Party on Article 3.4 activities, related net GHG emissions, involved areas, and projected carbon stock changes (additional activities under Article 3.4)

Article 3.4 Country specific data	Accounting framework	a_I (ha)	$CO_{2,I}$ (t CO ₂)*	$CH_{4,I}$ (t CO ₂ equiv.)* [§]	$N_2O_{,I}$ (t CO ₂ equiv.)* [§]	a_{II} (ha)	$CO_{2,II}$ (t CO ₂)*	$CH_{4,II}$ (t CO ₂ equiv.)* [§]	$N_2O_{,II}$ (t CO ₂ equiv.)* [§]	a_{cp} (ha)	ΔC_{cp} (t C)	$CO_{2,cp}$ (t CO ₂)*	$CH_{4,cp}$ (t CO ₂ equiv.)* [§]	$N_2O_{,cp}$ (t CO ₂ equiv.)* [§]	Methods and approaches	Data sources, data quality, and uncertainties (e.g. ranges)	Other information relevant to decision-making
Activity 1	Land based																
	Activity based																
Activity 2	Land based																
	Activity based																
Activity 3	Land based																
	Activity based																
....																	

* These columns would contain the sum over the years concerned of net annual emissions by sources and removals by sinks for the Article 3.4 activities proposed.

A negative sign indicates either emissions by sources or a decrease in carbon stocks. A positive sign indicates either removals by sinks or an increase in carbon stocks.

To convert a carbon amount to CO₂ multiply it by 3.67.

[§] CH₄ and N₂O emissions are converted to CO₂ equivalent emissions by using the global warming potential (GWP) values of 21 for CH₄ and 310 for N₂O (Source: Second Assessment Report of the IPCC, 1995)

a_I Area (ha) in 1995 or possibly an earlier specific year involved in the Article 3.4 activity since 1990.

$CO_{2,I}$ Net CO₂ emissions (t CO₂) by sources and removals by sinks related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a_I .

$CH_{4,I}$ CH₄ emissions (t CO₂ equivalent) by sources related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a_I .

$N_2O_{,I}$ N₂O emissions (t CO₂ equivalent) by sources related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a_I .

a_{II} Area (ha) in 1999 or possibly an earlier specific year involved in the Article 3.4 activity since 1990.

$CO_{2,II}$ Net CO₂ emissions (t CO₂) by sources and removals by sinks related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a_{II} .

$CH_{4,II}$ CH₄ emissions (t CO₂ equivalent) by sources related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a_{II} .

$N_2O_{,II}$ N₂O emissions (t CO₂ equivalent) by sources related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a_{II} .

- a_{cp} Projected area (ha) in 2012 involved in the Article 3.4 activity since 1990.
- ΔC_{cp} Projected carbon stock changes (t C) over the first commitment period related to the Article 3.4 activity since 1990.
- $CO_{2, cp}$ Projected net CO₂ emissions related contribution (t CO₂) of the Article 3.4 activity to the first commitment period assigned amount of the Party.
- $CH_{4, cp}$ Projected CH₄ emissions related contribution (t CO₂ equivalent) of the Article 3.4 activity to the first commitment period assigned amount of the Party.
- $N_2O_{, cp}$ Projected N₂O emissions related contribution (t CO₂ equivalent) of the Article 3.4 activity to the first commitment period assigned amount of the Party.

Methods and approaches

- Specify:
- a) Whether the definition of activity is considered broad or narrow (cf. Section 4.3.2. page 195 of the IPCC Special Report);
 - b) How the estimates were computed;
 - c) Other.

EXPLANATORY TEXT (table III)

Parties should submit information under all headings listed below where the information is relevant to the approach taken in their submissions and to the extent that data and methodologies exist.

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1. Activities and accounting:
 - a) Definitions and descriptions of all activities proposed,
 - b) Scope of activities and how they fit into broader managed land categories,
 - c) Accounting approaches,
 - d) Proposals for key accounting features, e.g. assumptions on baselines, basis for the area estimates covered by activity.
2. Carbon pools included (e.g. above ground biomass, litter and woody debris, below-ground biomass, soil carbon, and harvested materials).
3. Methodologies and data:
 - a) Data sources,
 - b) Sampling techniques,
 - c) Models and key parameters,
 - d) Uncertainties.
4. Treatment of non CO₂ greenhouse gases.
5. Methods and key assumptions in projections for the first commitment period (2008–2012) and discussion, if possible, of trends beyond the first commitment period.
