

CONVENTION ON LONG-RANGE TRANSBOUNDARY AIR POLLUTION

International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests

MINUTES

of the twenty third meeting of the Programme Task Force
held from 12 to 16 May in Zvolen, Slovak Republic

Item 1: Adoption of the agenda and of the minutes of the 21st Task Force Meeting

1. The meeting was attended by 68 experts from the following 26 countries: Austria, Belgium, Croatia, Czech Republic, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Japan, Latvia, Lithuania, Norway, Poland, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, The Netherlands, Turkey, United Kingdom, and the United States of America.
2. Represented were the Working Group on Effects (WGE) (Mr. T. Johannessen), the Lead Country of ICP Forests (Ms. S. Strich), the ICP on Modelling and Mapping (Ms. S. Augustin), the ICP on Integrated Monitoring (Mr. L. Lundin), the European Commission DG Environment (EC DG Env) (Mr. P. Rautio), the European Commission DG Joint Research Centre (JRC) (Ms. A. Bastrup-Birk), the Acid Deposition Monitoring Network in East Asia (EANET) (Mr. Hiroyuki Sase), as well as the European National Forest Inventory Network (ENFIN) (Mr. K. Schadauer). The meeting was chaired by the Chairman of the Programme (Mr. M. Köhl) and the Head of the Programme Coordinating Centre (PCC) of ICP Forests (Mr. M. Lorenz). A list of participants is attached as Annex 1.
3. Mr. Köhl (Germany), opened the Task Force meeting, thanked the Government of the Slovak Republic for hosting the meeting and welcomed the participants.
4. Mr. P. Toma (Slovak Republic), Director of the Department Forest Resources Management and Forestry Policy of the Ministry of Agriculture welcomed the participants on behalf of the Slovak Government and presented the history and the status of the Slovak forestry. Mr. J. Novotný (Slovak Republic), General Director of the National Forest Centre, presented the structure and the work of the Centre.
5. The Task Force adopted the minutes of its 22nd meeting held in Tallinn, Estonia (23-25 May 2006) and the agenda of the meeting (Annex 2).

Item 2: Reports by the Chairman and the Programme Coordinating Centre (PCC)

6. Mr. M. Köhl reported on his main activities as Chairman of the Programme in the past year and mentioned specifically the cooperation with the European Commission, and with the European National Forest Inventory Network. He referred to the involvement in drafting project

proposals in collaboration with the German EU Presidency and to the links with the Ministerial Conference on the Protection of Forests in Europe.

7. Mr. M. Lorenz (Germany) reported on the main activities of PCC, in particular with respect to the obligations met under the medium-term workplan of WGE. He made special mention of the Programme Coordinating Group Meetings hosted by PCC on 6-7 December 2006 and on 27-28 March 2007 in Hamburg, Germany, which produced a draft strategy of ICP Forests for approval by the Task Force as well as proposals on forest monitoring under LIFE+ of EC. Other tasks of PCC referred to by Mr. M. Lorenz included the update of the Manual, the planning and evaluation of International Intercomparison Courses (ICCs) in 2006 and 2007 as well as data base management, data analyses and reporting. Mr. M. Lorenz also reported on cooperation with the International Union of Forest Research Organisations (IUFRO), the North American Forestry Commission (NAFC) and the United States Department of Agriculture Forest Service (USDAFS). He thanked all participating countries and bodies of the programme for their active participation. The Task Force took note of the progress made by PCC and adopted its report.

8. Ms. S. Strich (Germany) welcomed the participants and thanked the National Forest Centre of the Slovak Republic for hosting the meeting. She reported on the main activities of the Lead Country and mentioned specifically the activities under the German EU Presidency.

Item 3: Report by the Chairman of the Working Group on Effects (WGE) and by the UNECE Secretariat

9. Mr. T. Johannessen (Norway), Chairman of the WGE, reported on major achievements of the bodies under the WGE and mentioned that the reports presented to WGE last year by PCC had been welcomed. He pointed to the presently ongoing review of three protocols and underlined the importance of the ICPs in this process. He mentioned the new data rules adopted by the Executive Body and the new rules for distribution of money from the Trust Fund. He introduced the common workplan items for the ICPs with new emphasis on robustness and selection of parameters as well as cooperation with EECCA countries. The Task Force of ICP Forests took note of the report by the Chairman of the WGE.

Item 4: Reports by other ICPs

10. Mr. L. Lundin (Sweden), Chairman of ICP Integrated Monitoring, presented the programme's recent activities. The main focus of the programme is currently on heavy metals, dynamic modelling, acidification, nitrogen loads and impacts. Future challenges include management impacts and biodiversity.

11. Ms. S. Augustin (Germany) reported on the ongoing work of the ICP on Modelling and Mapping. The main focus of the programme is currently on critical loads and levels, heavy metals, dynamic modelling, and multi media assessments. Future activities reflect the requirements of the WGE work plan, specifically in the fields of critical loads, biodiversity and nitrogen effects. She recommended the support of the effects based activities of the ICP on Modelling and Mapping with existing data of the ICP Forests.

12. The Task Force took note of the reports by ICP Integrated Monitoring and ICP Modelling and Mapping.

Item 5: Cooperation with the European Commission

13. Mr. Köhl explained that the cooperation with EC is discussed before the strategy of ICP Forests (Item 6) because potential EC co-financing would constitute an important precondition for the continuation of forest monitoring in Europe at its present intensity.

14. Ms. A. Bastrup-Birk (Italy) informed the participants on the main activities of the Forest Action of JRC. The construction of the Forest Focus data base has made good progress in the last year. Submission of 2005 data is planned to be finalized in summer 2007. A number of Forest Focus projects that had been tendered out by the JRC and are now in the operational phase. Within BioSoil (Soil) the processing of the data is foreseen for 2008. For BioSoil (Biodiversity) data will be submitted by the countries via ordinary e-mails. For the evaluation of biodiversity data a close cooperation with the ICP Forests Expert Panel on Biodiversity and Ground Vegetation will be essential. Results of a questionnaire on Level I and Level II monitoring systems in the different countries will be published as a booklet in autumn 2007.

15. Mr. P. Rautio (Belgium) presented the current state of the LIFE+ regulation along with a version that was published after the conciliation process. The current state of the regulation can be viewed under <http://www.ec.europa.eu/environment/life/news/futureoflife.htm>. He concluded that the general perspectives for forest monitoring were encouraging, although a lot of specific administrative questions need to be solved. The participation of non-EU countries is possible for (i) EFTA states which have become members of EEA (in accordance with EC No 933/1999) (ii) candidate countries for accession to the EU and (iii) Western Balkan countries included in the Stabilisation and Association Process.

16. Ms. S. Strich reported on the process of setting up project proposals for future funding under the German EU Presidency. The focus is presently on the so-called "FutMon project" which aims at a revision of the existing Level I and Level II networks and at an integration with national forest inventories. She invited to the workshop in Brussels, Belgium, on 29 May 2007 in order to further specify the needs for future monitoring. The main question still open was the financing of monitoring activities in 2008.

17. The ensuing discussion focused on EC calls for projects including forest monitoring and on the question if EU-Member States should submit individual proposals or if Germany should submit a single proposal for all EU-Member States willing to participate.

Item 6: Strategy of ICP Forests

18. Mr. M. Lorenz presented the draft strategy of ICP Forests for 2007-2015 as proposed by the PCG. After intensive discussions the Task Force adopted the strategy as amended (Annex 3). PCC will make the strategy available via internet as soon as possible.

19. Mr. K. Schadauer (Austria) informed the Task Force of ongoing activities within the European National Forest Inventory Network (ENFIN). The main aim of the network is to promote NFIs as comprehensive monitoring systems by collecting harmonized information. He introduced a number of ongoing projects, the largest of which is COST action E 43. From the ENFIN point of view EU co-financing of future forest monitoring activities can only be obtained for joint activities of NFI and ICP Forests.

20. Mr. M. Köhl presented the existing project proposal "Further development and implementation of an EU-Level Forest Monitoring System" (FutMon) which had been

elaborated under the German EU Presidency. He mentioned that under the LIFE+ Regulation a participation also of non-EU countries was planned. The proposal includes the creation of a monitoring system at the European-wide scale, the improvement of the experimental design of long term intensive monitoring sites, the field data acquisition, and a QA/QC component. Referring to a case study from Germany he showed several alternatives of merging NFI and Level I sampling.

21. In the ensuing discussion the Task Force stressed the urgent need of re-designing the existing large-scale monitoring networks based on NFI plots and on ICP Forests Level I plots. A core plot selection of Level II plots was also given high priority. The Task Force invited ENFIN to jointly convene a workshop in 2007 in order to present national approaches and to discuss a harmonized proceeding in this matter. The workshop may also be used to formulate a project proposal in case there is a call under LIFE+. The Task Force gave PCC the mandate to invite ENFIN and to jointly take the lead in developing concepts for the re-designing of the monitoring networks and in developing a project proposal to be submitted under LIFE+. The Irish delegation will check its possibilities to host the meeting. Mr. Köhl informed the Task Force that a IUFRO symposium is planned for spring 2008 tackling the same question under a more scientific perspective. He suggested that national representatives of the Task Force should participate.

Item 7: Results and reports of 2007

22. Mr. R. Fischer (Germany) introduced the draft 2007 Forest Condition Reports and presented main results in the field of crown condition assessments and biodiversity. Mr. Lorenz presented main results from deposition measurements, critical load assessments and dynamic modelling. Mr. M. Dobbertin (Switzerland), presented relations between nitrogen deposition, temperature and forest growth. Ms. A. Bastrup-Birk informed on the most recent forest fire statistics of JRC. Mr. M. Ferretti (Italy) presented results of ozone passive samplers and informed on an ongoing cooperation in the field of ozone model parameterization with the ICPs Modelling and Mapping and Vegetation. Mr. P. Roskams (Belgium) presented results of damage cause assessments on Level I plots.

23. In the ensuing discussion the Task Force expressed its appreciation of the fact that in 2007 the Executive Report will again be a joint publication of CLRTAP and EC. EC will co-finance a number of additional evaluations in the fields of ozone, ground vegetation and forest type classification under a prolongation of the existing Grant Agreement. A number of related subchapters will be included into the Executive Report in autumn 2007 after circulating the drafts among the NFCs and the report will only be printed in late autumn 2007. After discussions the Task Force adopted the 2007 Forest Condition reports as amended. The Task Force encouraged PCC to present results of total deposition models in future reports.

Item 8: Monitoring activities

24. The Task Force adopted the mandate for a new Quality Assurance Committee (see Annex 4). This Committee will be chaired by Mr. M. Ferretti and Mr. N. König (co-chair).

25. Mr. Rosario Mosello resigned from the chairmanship of the Working Group on Quality Assurance in Laboratories. The Task Force thanked him for his engagement and agreed that the group will be chaired by Mr. N. König.

26. Ms. Rona Pitman was nominated as co-chair (litterfall) within the Expert Panel on Litterfall.
27. The Task Force took note update of the Annex 3 of the Manual ICP Modelling and Mapping and recommended its application as well within ICP Forests.
28. Mr. R. Fischer presented the new system of forms and explanatory items for data submission. The Task Force adopted the system and decided that every year the complete set of forms and explanatory items should be updated and presented for adoption at the Task Force Meeting. The QA Committee of the PCG was asked to elaborate a proposal for submission of data in case that measurement values are below detection limits.
29. Mr. A. Bytnerowicz (USA) informed on recent activities of the USDA Forest Service in the field of intensive monitoring, critical loads calculation, forest fire management and forest health monitoring.

Item 9: Cooperation with international organisations

30. Mr. H. Sase (Japan) informed on recent progress of the Acid Deposition Monitoring Network in East Asia (EANET). He gave an overview of the political framework, on presently active monitoring sites and presented recent publications. He introduced the recent update of the forest vegetation monitoring submanual and thanked the ICP Forests experts who had reviewed the draft document.
31. Mr. M. Lorenz reported on his participation in the 39th Air Pollution Workshop held on 1-5 April, 2007, in Guadalajara, Mexico. At a side meeting IUFRO, NAFC and USDAFS had envisaged a closer cooperation with ICP Forests in the field of critical loads assessment. It was agreed that Mr. M. Lorenz should chair Session 4 “IUFRO-, ICP Forests- and NAFC-joint session on concepts and application of critical loads for forests” of the 23rd IUFRO Conference for Specialists in Air Pollution Effects on Forest Ecosystems held on 7-11 September 2008 in Murten, Switzerland.
32. Mr. R. Fischer informed the Task Force that PCC had contacted the COST secretariat in order to explore future funding of ICP Forests under COST. The Task Force welcomed this initiative and asked PCC to further proceed in this matter.

Item 10: Organisational issues

33. The Task Force took note of the list of activities and tasks of ICP Forests prepared by PCC (Annex 5).
34. The Task Force reiterated its invitation to all participating countries to provide their voluntary contributions through the UNECE secretariat as early as possible in the year. As the WGE had been ordered by UN Treasury not to put any banking information on its web sites or send it via email, the updated information on accounts for the voluntary contributions will be sent via postal mail to the National Focal Centres.
35. The Task Force took note of the financial statements given by PCC for 2006 (Annex 6).
36. The Task Force agreed on the revised budget of ICP Forests for 2007/2008 (Annex 7).

Item 11: Other business

37. Mr. M. Dobbertin presented a recently developed software application for semi-automated determination of forest condition using digital Photos (CROCO for Windows).

38. Mr. M. Lorenz informed that the National Focal Centre of Cyprus had officially invited ICP Forests to hold its 24th Task Force Meeting in Larnaca, Cyprus, on 24-28 May 2008. The Task Force thanked Cyprus for the invitation.

39. Mr. M. Lorenz on behalf of the Task Force thanked the National Forest Centre and the Slovak Government for their perfect meeting arrangements and for the hospitality, as well as for having organised an excellent excursion and closed the meeting.

Annex 1

List of Participants

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Annex 2

Agenda

Opening by the Chairman, welcome by the host country and technical announcements

- Item 1: Adoption of the agenda
- Item 2: Reports by the Chairman, the Lead Country and the Programme Coordinating Centre (PCC)
- Item 3: Report by the Chairman of the Working Group on Effects (WGE) and by the UNECE Secretariat
- Item 4: Reports by other ICPs
- Item 5: Cooperation with the European Commission (EC)
- Item 6: Strategy of ICP Forests
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- Item 11: Other business

Annex 3**CONVENTION ON LONG-RANGE TRANSBOUNDARY AIR POLLUTION**

**International Co-operative Programme
on Assessment and Monitoring of Air Pollution Effects on Forests
(ICP Forests)**

**Strategy of ICP Forests
2007-2015**

as adopted at the 23rd Meeting of the Programme Task Force
in Zvolen, Slovak Republic, 12 – 16 May 2006

1. Political background**1.1 Obligation of ICP Forests to CLRTAP**

The International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests (ICP Forests) has been monitoring forest condition in Europe for 20 years within the Working Group on Effects (WGE) of the Convention on Long-range Transboundary Air Pollution (CLRTAP) under the United Nations Economic Commission for Europe (UNECE). It agreed with the Executive Body (EB) of CLRTAP in 1984 to monitor air pollution effects on forests and to contribute to a better understanding of cause-effect relationships (ECE/EB.AIR/7). The strategy of ICP Forests is based on the long-term strategy (EB.AIR/WG.1/2005/15/Rev.1) and the workplan for the effects-oriented activities (EB.AIR/WG.1/2005/4/Rev.1) of WGE.

1.2 Information needs of WGE

The draft long-term strategy of WGE specifies the following long-term aims to which the ICPs are expected to contribute:

Assessment of knowledge on

- the present status, long-term trends and dynamics, and the degree and geographical extent of the impact of air pollution, particularly, but not exclusively, its long range transboundary impact;
- exposure-response relationships for agreed air pollutants;
- critical loads, levels and limits for agreed air pollutants;
- interactive effects of air pollution and climate change on forest ecosystems

Moreover, the long-term strategy of WGE specifies the following long-term priorities of relevance to ICP Forests:

- derivation of exposure-response functions for chemical and biological effects of air pollutants including investigation of nutrient nitrogen, acidifying compounds and ozone effects on ecosystem functions and on biodiversity, including combinations with other stresses (e.g. climate change and land use practices);
- further development of models and mapping procedures, particularly for effects of nitrogen and ozone on the environment and for the description of dynamic processes of damage and recovery

(acidification, eutrophication, heavy metal accumulation) by including to a larger extent biological effects;

- evaluation of environmental benefits of air pollution control policies.

1.3 Information needs of other political processes

The monitoring system and the monitoring data can be used for international processes of environmental policies other than CLRTAP. This applies in particular to the UNECE/FAO Forest Resources Assessment (FRA), to the Ministerial Conference for Protection of Forests in Europe (MCPFE), to the Convention on Biological Diversity (CBD), to the Framework Convention on Climate Change (UNFCCC), and to the European Commission (EC).

2. Aims of ICP Forests

In order to meet the information needs of WGE, ICP Forests pursues the following two main objectives:

- Aim 1: To provide a periodic overview on the spatial and temporal variation of forest condition in relation to anthropogenic and natural stress factors (in particular air pollution) by means of European-wide and national large-scale representative monitoring on a systematic network.
- Aim 2: To gain a better understanding of the cause-effect relationships between the condition of forest ecosystems and anthropogenic as well as natural stress factors (in particular air pollution) by means of intensive monitoring on a number of selected permanent observation plots spread over Europe and to study the development of important forest ecosystems in Europe.

These aims imply in accordance with the long-term priorities of WGE contributions to calculations of critical loads and levels and the assessment of their exceedances. They imply also dynamic modelling of the response of forest ecosystems to deposition scenarios expected for the future. Additional insight is gained by compiling available studies from the National Focal Centres (NFCs) and from related programmes inside and outside CLRTAP. In this respect close cooperation is sought with the other relevant ICPs under WGE.

3. Monitoring activities

In order to meet its data generation and reporting obligations, ICP Forests employs data collection at two levels.

- Large-scale monitoring provides a periodic overview of the spatial and temporal variation in a range of attributes related to forest condition. Up to date, this has been carried out by the Level I network. Level I and NFIs and other related inventory plots may be combined when appropriate, feasible and necessary, according to defined and agreed procedures.
- Intensive (Level II) monitoring is now carried out on many plots installed in important forest ecosystems. Basic measurements will be continued to support cause-effect studies. In the future, a concept for a sub-sample of these plots, called “core plots”, will be developed. These plots will be dedicated to in-depth investigation of the interactive effects of anthropogenic and natural stress factors on the condition of forest ecosystems.

Within its 22 years of existence, ICP Forests established a harmonised forest monitoring system on a pan-European network and created a database permitting evaluations of long-term time series. The infrastructure and expertise of ICP Forests can be used to provide information not only on effects of air pollution on forests but also on climate change and on biodiversity.

4. Quality assurance and control

All monitoring activities are harmonised by ICP Forests among the participating countries and are laid down in the ICP Forests' "Manual on methods and criteria for harmonised sampling, assessment, monitoring and analysis of the effects of air pollution on forests". This ensures a standard approach for data collection and evaluation and can form the nucleus for a future common European forest monitoring programme. A consistent quality assurance approach is applied within the programme covering the set up of methods, data collection, submission and investigation as well as reporting. Quality assurance and control is supervised by the Programme Coordinating Group through its Quality Assurance Committee. A set of Expert Panels cares for data quality assurance within the specific surveys and for the further development of monitoring methods and standards. This includes field checks, intercalibration courses, laboratory ring tests, and data validation.

5. Data evaluation and reporting

A range of monitoring parameters are required to meet the information requirements of CLRTAP and other international institutions. The Programme Coordinating Group and the Expert Panels will jointly formulate a data evaluation and reporting approach which takes the medium term workplan of WGE into account. International and national data from other programmes and institutions will be included in a combined analysis. The main topics for data analysis are

- forest condition

- effects on forest ecosystems from
 - Acidity and nitrogen
 - Ozone

- contributions in the fields of
 - Climate change
 - Biodiversity .

The trends in deposition and their interactive effects on the adaptation and vulnerability of forest ecosystems will be evaluated. This includes spatial and temporal changes and cause-effect relationships with special emphasis on critical loads and their exceedances. Dynamic models and transfer functions derived from suitably selected intensive monitoring plots will be used to investigate the effects of climatic factors and greenhouse gases on forest ecosystems and applied to the large scale monitoring plots. These models will be validated against measured data collected at the plots. Furthermore, data gathered at the plots will be used in an integrated manner to investigate the carbon sequestration potential of forests, ozone fluxes to forests and contribute to assess status and trends of forest biodiversity at the pan-European level.

6. Deliverables

The integrated monitoring approach of ICP Forests using the Level I and Level II networks provides robust data on the health and stability of forests. This facilitates an understanding of the effects of deposition on the role and functioning of forest ecosystems in protecting soils and water. Furthermore the programme surveys can contribute to the understanding and forecast of climate change effects on forests and can be used to supply information on the sequestration of carbon and are going to provide information on forest biodiversity as an integral part of forest ecosystems. Results are published via reports and a website (www.icp-forests.org).

Annex 4**Mandate of the Quality Assurance Committee of the Programme
Coordinating Group**

Task-Force of the ICP-Forests adopted the following mandate for the QA Committee for the years from 2007 to 2010:

- to review the Manual, to identify harmonization needs and to make the objectives of the specific investigation more formal and stringent.
- To identify a consistent QA approach valid throughout the various investigations carried out within the ICP-Forests.
- To identify an unambiguous set of Data Quality Requirements and inspire a set of data quality indicators, to be further developed by the relevant Expert Panels
- To identify common QA/QC reporting rules between EPs.
- To identify proper data processing options (and rules to be attained in case of poor data quality)
- To prepare a series of guidelines to be submitted to the various EPs
- To prepare an *ad-interim* Status Report to be submitted annually at the Task-Force of the ICP-Forests.
- To promote co-operation, with NFCs, other ICPs and monitoring programmes.
- To contribute to the reporting system of the ICP-Forests.
- For the Task-Force meeting in 2010 the QA Committee will prepare a final report and review in which a future mandate will be agreed upon.

Annex 5**Activities and Tasks of ICP Forests in 2007/2008****ICP Forests strategy**

- (a) Implementation of the medium term strategy 2007-2015
- (b) Core plot selection on Level II
- (c) Integration of Level I and NFI, reshape of Level I based on a representative inventory design
- (d) Consolidation of project proposals
- (e) Fund raising for project proposals
- (f) Further contributions to European Forest Monitoring System in a joint approach together with ENFIN
- (g) Programme Coordinating Group Meeting (Hamburg, Germany)

Deposition

- (h) Calculation of trends in nitrogen and sulphur deposition with updated data sets
- (i) Relationships between critical loads exceedances and forest ecosystem response
- (j) Dynamic modelling of deposition effects on plant species diversity

Ozon

- (k) Calculation of exceedances of critical ozone levels and forest ecosystem responses
- (l) Contribution to the parametrisation of the DO₃SE flux model

Biodiversity

- (m) Description of forest types based on quantitative data of Level II plots
- (n) Contributions to the development of the BioSoil project
- (o) Further development of future forest biodiversity monitoring taking into consideration Regulation LIFE+ and MCPFE indicators

Quality assurance and control

- (p) International Intercalibration Course on crown condition assessments in northern Europe (Estonia, 6-9 August 2007)
- (q) 5th Forest Soil Coordinating Centre Interlaboratory Comparison
- (r) 10th laboratory comparison for foliage analysis
- (s) Continuation of QA/QC measures in laboratories specifically addressing heads of laboratories.

Data management

- (t) Submission of Level I and Level II data by NFCs to PCC
- (u) Continuation of the collaboration with the "Consortium Forest Focus" under a contract of the Joint Research Centre of the EC on the establishment of the Level II data base
- (v) Establishment of new data validation routines for damage type data on Level I

Reports

- (w) Publication of the 2007 Executive Report
- (x) Publication of the 2007 Technical Report
- (y) Drafting of the 2008 Technical Report
- (z) Drafting of the 2008 Executive Report

Annex 6

Financial Statement of PCC

Period from 1 January to 31 December 2006

	US\$	€
Balance per 01.01.2006 (debit)	353 777	298 808
Expenses		99 532
Funds received	90 000	68 467
Balance per 31.12.2006 (debit)	435 520	329 873
<i>Expenses</i>		
Consultants		14 000
Scientific staff/Administrative support personnel		74 479
Assistance to NFCs and CINT		0
Travel on official business		1 050
Expendable equipment		0
Operation and maintenance of equipment		0
Group training and meeting costs		0
Miscellaneous		7 567
Printing costs		2 436
Total		99 532

Annex 7

**Revised Basic Budget of PCC
Period from 1 January to 31 December 2008**

Item	US\$
Consultants	10.000
Scientific staff and administrative support personnel	105.000
Travel on official business	22.500
Expendable equipment	5.000
Operation and maintenance of equipment	0
Group training and meeting costs	0
Assistance to NFCs of ICP Forests	0
Printing costs	2.500
Miscellaneous	5.000
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Total	150.000
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