

# 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 sixth meeting of the Programme Task Force  
held from 30 May to 1 June 2010 in Garmisch-Partenkirchen, Germany

### Opening

1. The meeting was attended by 124 experts from the following 32 countries: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Latvia, Lithuania, The Netherlands, Norway, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom, and the United States of America.
2. The meeting was chaired by the Chairman of the Programme (Mr. M. Köhl, Germany) and the Head of the Programme Coordinating Centre (PCC) of ICP Forests (Mr. M. Lorenz, Germany). Represented were the Lead Country of ICP Forests (Ms. D. Steinhauser, Ms. S. Strich, Germany), the ICP on Integrated Monitoring (Mr. L. Lundin, Sweden) and the ICP on Vegetation (Ms. S. Braun, Switzerland). Apologies had been received from the Chairman of the Working Group on Effects (WGE) and the Secretariat of the United Nations Economic Commission for Europe (UNECE). A list of participants is attached as Annex 1.
3. Mr. M. Köhl opened the Task Force meeting, welcomed the participants, and thanked the German Ministry of Food Agriculture and Consumer Protection represented by Ms. D. Steinhauser, as well as the Bavarian Ministry of Food, Agriculture and Forestry, represented by Mr. F. Brosinger, for hosting the meeting. He specifically welcomed Mr. Thomas Haußmann, former Chair of the ICP Forests and Mr. H.-D. Gregor, former Chair of the Working Group on Effects. On the occasion of the 25 years jubilee of the programme he referred to its main achievements but as well pointed to the main challenges ahead, such as the integration of biodiversity and climate change issues and the need for delivering focussed and policy relevant results as input for political decision making.
4. Ms. D. Steinhauser, on behalf of Ilse Aigner, Federal Minister of Food, Agriculture, and Consumer Protection, welcomed all participants to Germany and forwarded specific greetings from the programme's first Chairman, Mr. E. Wermann who was unable to attend the meeting. She thanked the Free State of Bavaria for the support in hosting the meeting and the Programme Coordinating Centre for the timely preparation of the meeting documents. She specifically welcomed the former Chairpersons of the ICP Forests Expert Panels, the delegates from the ICP Integrated Monitoring and ICP Vegetation as well as from the USDA Forest Service and the EANET programme. She recalled the long and successful cooperation with the European Commission and stressed the need for further support of the monitoring activities.

5. Mr. F. Brosinger, on behalf of H. Brunner, Bavarian Minister of Food, Agriculture and Forestry, welcomed all participants to Bavaria. He referred to the importance of forest monitoring in Bavaria and Europe and gave an introduction to forestry and forests in the Free State, not only related to timber production and economics but as well with respect to ecological functions and recreation especially in the Alpine region.

6. Ms. Sigrid Strich introduced to forests and forestry in Germany with a specific focus on organization and results of forest condition monitoring and forest inventory in Germany.

7. Mr. H. D. Gregor, Germany, thanked the organizers for the invitation and presented achievements and challenges of 25 years of monitoring forest condition by ICP Forests. He referred to the milestones of the ICP Forests programme starting from the first Task Force Meeting in 1985 and congratulated the programme to the very successful implementation of the monitoring over 25 years. He pointed to major scientific results and their relation to policy making and emphasized the need for further continuation of cause-effect studies in order to detect reactions of forest ecosystems not only to changing pollution regimes but to a generally changing environment in the context of climate change and biodiversity loss. He recommended a new cause-effect report compiling the results of the programme with respect to effects of atmospheric deposition and environmental changes on forest ecosystems.

### **Item 1: Adoption of the agenda**

8. Mr. M. Lorenz presented the agenda and gave an overview of the meeting documents, mentioning the following amendments: The draft manual updates including a new Intellectual Property and Publication Policy of the ICP Forests, the draft Forest Condition Reports and a policy brief. The agenda was adopted. Also adopted were the minutes of the 25<sup>th</sup> Task Force Meeting of ICP Forests. The agenda of the meeting is attached as Annex 2.

### **Item 2: Report by the Chairman and PCC**

9. On behalf of the Chairman and PCC, Mr. Martin Lorenz presented the Progress Report of the Programme Coordinating Centre, referring specifically to deliverables of the ICP Forests for the WGE and the reports of the ICP Forests. He mentioned the involvement in the organization of expert meetings and the organization of the Programme Coordinating Group Meeting 1-2 July 2009 in Hamburg, Germany. He reported on the work for the project proposal "ForEU", the participation in events of the European Union Presidencies in Sweden and Spain, and on the coordination of the manual updates.

10. Mr. Lorenz also reported on the persisting cooperation with the International Union of Forest Research Organisations (IUFRO), the United States Department of Agriculture Forest Service (USDAFS), and the Acid Deposition Monitoring Network in East Asia (EANET).

11. Mr. Lorenz 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.

### **Item 3: Reports by other ICPs**

12. Mr. L. Lundin, Sweden presented activities and achievements of ICP Integrated Monitoring with the priorities of the programme in 2010 being on (i) heavy metals, (ii)

dynamic modelling, (iii) nitrogen critical loads and effects, (iv) biodiversity indicators, (v) budgets and trends in S, N, H and BC, (vi) air pollution and climate change interactions. Mr. Lundin expressed his concern that neither the WGE nor the Secretariat of the UNECE were present at the Task Force Meetings of the ICPs in 2010.

13. Ms. S. Braun, Switzerland, reported on latest achievements of the ICP Vegetation, specifically mentioning the work on the ozone flux approach. She presented newly developed critical levels for ozone. The Task Force took note of the new critical levels and agreed to use them in the relevant expert groups and evaluations.

#### **Item 4: Obligations towards WGE and CLRTAP**

14. Mr. Lorenz presented the draft 2010 Workplan on Effects-oriented Activities (EOA) of WGE. The Task Force noted that ICP Forests had fulfilled its obligations under WGE. As activities for ICP Forests in 2011 he suggested the following work plan items: (i) report on forest soil condition; (ii) report on relationships between exceedances of critical limits and forest vegetation response; (iii) report on development of forest biodiversity under different deposition scenarios; (iv) report on the impact of damaging agents on forest condition. The Task Force approved the proposal.

#### **Item 5: Results and reports of ICP Forests in 2010**

15. Mr. R. Fischer, Germany presented the outline of the draft 2010 reports of ICP Forests, namely of the Technical and Executive Reports as well as of the Executive Summary to be delivered to WGE. He presented as well results on large scale forest condition based on the 2009 transnational data set and specifically pointed to the changes in plot and tree numbers due to the restructuring of the large scale grid. PCC announced the development of an appropriate evaluation approach for the restructured monitoring net in cooperation with the FutMon project under LIFE+. The Task Force welcomed the proposal and invited the Expert Panel on crown condition to support this development.

16. Mr. O. Granke, Germany presented results on atmospheric deposition based on 10 year time trends and on mean values from the intensive monitoring plots for the years 2005-2007. The Task Force encouraged PCC to publish the results in a scientific journal and invited countries with related national results to contribute and participate. Further comments to the scientific results and conclusions should be sent to PCC before end of July 2010.

17. Mr. Lorenz presented results of a comparison of modelled EMEP deposition with measured deposition data of the ICP Forests. After the ensuing discussion it was agreed to replace the results of these evaluations by a new one with updated data and to report the new results as separate report to WGE.

18. Mr. H. van Dobben, The Netherlands presented evaluations on ground vegetation species composition and related environmental influences. The Task Force expressed its appreciation for the scientific work carried out and encouraged Mr. van Dobben to take the lead in a scientific publication of these results. Taking into account the new "Intellectual Property and Publication Policy" of ICP Forests (see item 6) it was agreed that the ground vegetation experts of the programme should be informed on the ongoing work by Mr. P. Neville in order to have the possibility to comment on the evaluation directly to Mr. van Dobben before end of July. PCC would provide updated raw data in August 2010. Based on the comments and the new data, Mr. van Dobben would re-calculate the evaluations and

prepare a manuscript for scientific publication. Before submission of the manuscript the list of authors would be sent to PCC for commenting. The Task Force agreed that the respective chapters in the 2010 forest condition reports would be based on the existing results as presented during the meeting.

19. Mr. Fischer presented results of an evaluation of soil solution data from Level II plots that had been carried out by PCC. The Task Force expressed its appreciation for the scientific work carried out, encouraged PCC to publish the results in a scientific journal and invited countries with related national results to contribute and participate. Further comments to the scientific results and conclusions should be sent to PCC before end of July 2010.

20. Mr. H. D. Nagel, Germany, presented the outline of an envisaged study on critical loads for eutrophication and acidification based on the VSD+ model. The study will be carried out in the second half of 2010. First results are expected in September. For plots with insufficient data availability in the transnational data base, National Focal Centres (NFCs) are invited to contribute additional national data in formats to be specified by Ökodata. Data provision and participation in the scientific evaluation is possible following the procedures outlined in the new “Intellectual Property and Publication Policy” (see item 6). NFCs will be provided with detailed further information by PCC.

21. The Executive Summary was adopted as amended. The Task Force asked PCC to submit the summary to the UNECE Secretariat.

#### **Item 6: Forest Monitoring and cooperation with FutMon**

22. Mr. Bruno Petriccione, Italy, had informed that due to new professional obligations he was no longer able to chair the Expert Panel on Biodiversity and Ground Vegetation (together with Mr. Pat Neville, Ireland). He had proposed Mr. Roberto Canullo, Italy, as his successor. The Task Force agreed to this proposal and asked the Italian delegation to forward the thanks of the Task Force to Mr. Petriccione for his engagement for the Expert Panel and biodiversity issues within the programme for many years.

23. Mr. Nicholas Clarke, Norway, had informed that due to other professional duties and projects he was no longer able to chair the Expert Panel on Deposition. The Task Force agreed to nominate Ms. Karin Hansen, Denmark, as his successor and asked the Norwegian delegation to forward the gratitude for his excellent chairmanship to Mr. Clarke.

24. Mr. Lorenz informed on the present state of the cooperation between the FutMon project and ICP Forests. In the context of the ongoing revision of the Level I and Level II monitoring grids he referred to the adoption of the respective parts of the Manual (see below) and to a related presentation at the 2<sup>nd</sup> FutMon Status workshop held back-to-back with the Task Force Meeting. He stressed the importance of the respective decisions by the Task Force as they will lead to two completely changed monitoring grids, with Level I being linked to national forest inventories, and Level II being confined to fewer plots with higher monitoring intensity per plot. The Task Force took note of the statements made by Mr. Lorenz.

25. Mr. Fischer introduced to the revision process of the ICP Forests Manual. He re-called that this was the most comprehensive manual revision ever and thanked the contributing experts and NFCs for the collaboration under a dense time schedule.

26. Mr. M. Ferretti, Italy, informed on the background and the input requirements of the Quality Assurance Committee which had elaborated the new structure of the manual with co-

financing under the FutMon project. The Task Force approved a new mandate for the Quality Assurance Committee for the years 2011 – 2014 (see Annex 3).

27. Mr. Fischer presented the new “Intellectual Policy and Publication Policy” (IP policy) of ICP Forests. The policy was adopted. The Task Force also adopted the new part I of the manual “Objectives, Strategy and Implementation of ICP Forests”. The IP policy will be added as Annex to part I of the manual.

28. Mr. Ferretti and Mr. Fischer presented part II of the manual “Basic principles for the ICP Forests Monitoring Networks”. The Task Force adopted this new manual part (as amended).

29. The Task Force adopted the new manual part III “Quality assurance”.

30. Mr. J. Eichhorn, Germany, presented the new manual part IV “Visual Assessment of Crown Condition and Damaging Agents”. The Task Force adopted this new manual part (as amended).

31. Mr. M. Dobbertin, Switzerland presented the manual part V “Tree Growth”. The Task Force adopted this new manual part (as amended).

32. Mr. E. Beuker, Finland presented the new manual part VI “Tree Phenology”. The Task Force adopted this new manual part (as amended).

33. Mr. E. Pompei, Italy presented the new manual part VII “Assessment of Ground Vegetation”. The Task Force adopted this new manual part (as amended).

34. M. Marcus Schaub, Switzerland presented the new manual parts VIII “Ozone injury on plants” and XV “Ambient Air quality”. The Task Force adopted these new manual parts (as amended).

35. Mr. S. Raspe, Germany presented the new manual part IX “Meteorological Measurements”. The Task Force adopted this new manual part (as amended).

36. Mr. B. de Vos, Belgium presented the new manual part X “Soil sampling and analyses”. The Task Force adopted this new manual part (as amended).

37. Mr. P. Rautio, Finland presented the new manual part XII “Foliar sampling and analysis”. The Task Force adopted this new manual part (as amended).

38. The Task Force adopted the new manual part XIII “Sampling and Analysis of Litterfall” (as amended).

39. The Task Force adopted the new manual part XIV “Sampling and analysis of Deposition”.

40. The Task Force adopted the new manual part XVI “Quality Assurance and Control in Laboratories”.

41. Mr. P. Neville explained the time schedule for the further elaboration of the manuals on epiphytic lichen assessments and deadwood assessments. The Head of PCC expressed his serious concern about the fact that the respective manuals were still not available. It was

agreed that the drafts for these manuals will be presented at an Expert Panel Meeting still in 2010 as a basis for further discussion and elaboration until the Task Force 2011.

42. The Task Force invited the Expert Panel on Foliage and Litterfall to elaborate a manual for the analysis of nutrient contents in ground vegetation, the Expert Panel on Crown Condition Assessment to elaborate a manual on leaf area measurements and a concept for future international cross calibration courses for crown condition assessments and the Expert Panel on Soil and Soil Solution to update the existing manual on soil solution analysis until the Task Force Meeting 2011.

43. Mr. O. Granke presented the current state of data submission and reported on the progress of the implementation of the new ICP Forests data base. The Task Force congratulated PCC to the excellent work. The Task Force agreed to submit the monitoring data of the year 2011 during the following time periods:

Large Scale Monitoring (Level I):

2011 Data Submission: 01/09/2011 - 30/11/2011

2011 Final data validation and reporting: 01/12/2011 – 28/02/2012

Intensive Monitoring (Level II/IM1/D1-D3 plots)

2010 Data submission: 01/04/2011 – 31/10/2011

2010 Final data validation and reporting: 01/11/2011 – 28/02/2012

Stand and site parameters for Level I and Level II plots according to the new manual part II will be submitted in 2011 together with the 2011 data for Level I and with the 2010 data for Level II. Forest type information will only be submitted after the new system has been tested on an operational level in the frame of the pilot reporting for the MCPFE SoEF2011 (State of Europe's Forests) Report.

44. Mr. A. Bytnerowicz, USA reported on the latest developments with respect to the implementation of intensive monitoring plots and the calculation of critical loads and levels following UNECE standards in the United States of America. He announced an ICP Forests Level II workshop for personnel of the USDA Forest Service during October 26-29, 2010 in Riverside, California, to which ICP Forests experts will be invited in order to assist with technical advice and training. The Task Force assured to support the activities through the available expertise within the programme.

### **Item 7: Forest Monitoring beyond 2010**

45. Mr. Lorenz introduced the item making reference to the ICP Forests Strategy until 2015 and to the Evaluation Plan developed by PCC in cooperation with the PCG. Mr. Köhl stressed the necessity to analyse the wealth of data collected in order to increase the relevance of ICP Forests for science and policies.

46. Mr. Fischer presented the Evaluation Plan. He introduced the audience to about twenty approaches, making special mention of those approaches reaching beyond air pollution effects and tackling relationships between forests, climate change, carbon sequestration and biodiversity.

47. Mr. Lorenz reported that the “ForEU” project proposal was likely to be rejected by the LIFE Unit of the European Commission DG Environment. As this means a jeopardy for the further implementation of forest monitoring and data evaluation after 2010, he suggested: (i) submission of a proposal for prolongation of FutMon (without additional funding) to EC; (ii) submission of a policy brief to EU-parliamentarians, to the EU-Forestry Directors, and to the EU Standing Forestry Committee. Mr. Lorenz also stressed the need that EU-Member States comment on the unsatisfactory situation within the public consultation on the Green Paper of the EU Council. The Task Force appreciated the proposals and asked PCC to take the respective action.

### **Item 8: Cooperation with international organisations**

48. Mr. H. Sase, Japan presented latest achievements and results of the Acid Deposition Monitoring Network in East Asia (EANET).

49. Mr. A. Bytnerowicz reported on recent activities and results of the IUFRO section 7.01.00 as well as on progress within the IUFRO project World Forests, Society and environment (WFSE).

50. Mr. R. Fischer reported on the ongoing data submission process to the reports of the MCPFE. Aggregated deposition and defoliation data will be submitted by PCC to MCPFE during summer 2010.

51. Mr. R. Fischer outlined further steps of a possible cooperation with the European Long-term Ecosystem Research Network (LTER Europe) in the framework of the ongoing COST Action FP 0903 “Climate Change and Forest Mitigation and Adaptation in a Polluted Environment”. The Task Force supported this cooperation. Already 70 Level II sites are registered in the LTER online data base which is a tool for selecting future sites for forest ecosystem research projects. National Focal Centres were invited to register those of their Level II sites that are already basis for or are intended to become a basis for additional research activities. PCC will support this process by preparing meta data sets for Level II sites and making them available to the NFCs for an easier registration of their sites. The current state of the collaboration will be presented at a COST Conference on 5-7 October in Rome, Italy.

### **Item 9: Organisational issues**

52. The Task Force took note of the list of activities and tasks of ICP Forests (Annex 4).

53. The Task Force took note of the financial statement given by PCC for 2009 (Annex 5) and agreed on the revised budget of ICP Forests for 2011 (Annex 6).

54. The Task Force took note of the list of voluntary contributions towards financing of ICP Forests. It reiterated its invitation to all participating countries to provide their voluntary contributions through the UNECE secretariat as early as possible in the year. Banking details will be circulated by PCC.

**Item 10: Other business**

55. Mr. M. Igerslev, Mr. L. Vesterdal, and Ms. A. Bastrup-Birk invited the Task Force to hold its 27<sup>th</sup> meeting from 16-19 May 2011 in Copenhagen, Denmark. The Task Force thanked Denmark for the invitation.

56. Mr. Lorenz on behalf of the Task Force thanked the organisers of the meeting for their perfect arrangements and closed the meeting.

**Annex 1:**List of Participants (26<sup>th</sup> ICP Forests Task Force Meeting and 2<sup>nd</sup> FutMon Status workshop)

<b>First name</b>	<b>Surname</b>	<b>Institution</b>	<b>Country</b>
Alfred	Fürst	Bundesforschungszentrum für Wald	Austria
Markus	Neumann	Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW)	Austria
Bruno	De Vos	Research Institute for Nature and Forest (INBO)	Belgium
Peter	Roskams	Research Institute for Nature and Forest (INBO)	Belgium
Genoveva	Popova	ExEA	Bulgaria
Penka	Stoichkova	Ministry of Environment and Water	Bulgaria
Tamara	Jakovljevic	Croatian Forest Research Institute	Croatia
Nenad	Potocic	Croatian Forest Research Institute	Croatia
Ivan	Seletkovic	Croatian Forest Research Institute	Croatia
Aristarchos	Aristarchou	Forest Department	Cyprus
Bohumir	Lomsky	Forestry and Game Management Research Institute	Czech Republic
Vit	Sramek	Forestry and Game Management Research Institute	Czech Republic
Annemarie	Bastrup-Birk	Forest & Landscape Denmark, Univ. of Copenhagen	Denmark
Karin	Hansen	Forest & Landscape Denmark, Univ. of Copenhagen	Denmark
Morten	Ingerslev	Forest & Landscape Denmark, Univ. of Copenhagen	Denmark
Lars	Vesterdal	Forest & Landscape Denmark, Univ. of Copenhagen	Denmark
Endla	Asi	Estonian Environment Information Centre	Estonia
Kalle	Karoles	Estonian Environment Information Centre	Estonia
Egbert	Beuker	Finnish Forest Research Institute, Punkaharju Research Unit	Finland
Paivi	Merila	Finnish Forest Research Institute (METLA)	Finland
Seppo	Nevalainen	Finnish Forest Research Institute	Finland
Pasi	Rautio	Finnish Forest Research Institute	Finland
Manuel	Nicolas	Office National des Forêts - Département R&D	France
Erwin	Ulrich	Office National des Forêts	France
Mascha	Albrecht	Northwest German Forest Research Station	Germany
Arthur	Bauer	LWF Freising	Germany
Franz	Binder	Bavarian State Ministry of Food, Agriculture and Forestry	Germany
Franz	Brosinger	Bavarian State Ministry of Food, Agriculture and Forestry	Germany
Ines	Chmara	Thuringian Institut for Forest, Game and Fishery	Germany
Hans-Peter	Dietrich	Bayerische Landesanstalt für Wald und	Germany

		Forstwirtschaft	
Winfried	Drexler	Bavarian State Institute of Forestry	Germany
Johannes	Eichhorn	NW FVA	Germany
Richard	Fischer	vTI, Institute for World Forestry	Germany
Patrick	Gestier		Germany
Michael	Girnth		Germany
Oliver	Granke	vTI, Institute for World Forestry	Germany
Heinz-Detlef	Gregor	Environmental Monitoring	Germany
Petra	Haußmann		Germany
Thomas	Haußmann	Federal Ministry of Food, Agriculture and Consumer Protection	Germany
Robert	Holzapl		Germany
Stefan	Holzmann	FVA-Freiburg	Germany
Michael	Huber	State Agency for Food, Agriculture and Forestry	Germany
Valerie	Kantelberg	Bavarian State Forest Enterprise	Germany
Michael	Köhl	von Thünen Institute, World Forestry	Germany
Nils	König	Nordwestdeutsche Forstliche Versuchsanst.	Germany
Jochen	Krause	Bavarian State Forest Enterprise	Germany
Robert	Krebs	Bavarian State Forest Enterprise	Germany
Robert	Kuhn	Bavarian State Forest Enterprise	Germany
Martin	Lorenz	vTI, Institute for World Forestry	Germany
Rainer	Matyssek	University Munich	Germany
Klaus	Moritz	Wasserwirtschaftsamt	Germany
Hans-Dieter	Nagel	OEKO-DATA	Germany
Susanne	Palicka		Germany
Stefan	Pratsch	Bavarian State Forest Enterprise	Germany
Teja	Preuhsler		Germany
Stephan	Raspe	Bavarian State Institute of Forestry	Germany
Olaf	Scheibe	Thuringian Institut for Forest, Game and Fishery	Germany
Claus-G.	Schimming	Ökologie-Zentrum (Ecology Centre), Univers. Kiel	Germany
Markus	Schmorell	State Agency for Food, Agriculture and Forestry	Germany
Hans Werner	Schröck	FAWF Rheinland-Pfalz	Germany
Gudrun	Schütze	Fed. Environment Agency, II 4.3	Germany
Ulrich	Schweizer	State Agency for Food, Agriculture and Forestry	Germany
Hans-Ulrich	Sinner	Bavarian State Institute of Forestry	Germany
Dorothea	Steinhauser	Federal Ministry of Food, Agriculture and Consumer Protection	Germany
Sigrid	Strich	Federal Ministry of Food, Agriculture and Consumer Protection	Germany
Martin	Tietler		Germany
Michael	Weydmann		Germany
Lothar	Zimmermann	Bavarian Forest Institute	Germany
Panagiotis	Michopoulos	Forest Research Institute of Athens	Greece
László	Kolozs	CAO Forestry Directorate	Hungary

András	Szepesi	Ministry of Agriculture and Rural Development	Hungary
Fiona	Harrington	Coillte	Ireland
Pat	Neville	Coillte	Ireland
Guia	Cecchini	Department of Plant, Soil and Environmental Science	Italy
David	Durrant		Italy
Tracy	Durrant-Houston		Italy
Marco	Ferretti	TerraData environmetrics at the Dept. Environmental Sciences, University of Siena	Italy
Patrizia	Gasparini	CRA-MPF	Italy
Aldo	Marchetto	CNR ISE	Italy
Giorgio	Matteucci	CNR-IBAF & ISAFOM	Italy
Cristina	Modesti	Corpo forestale dello Stato	Italy
Roasario	Mosello	CNR Institute of Ecosystem Study	Italy
Enrico	Pompei	Corpo forestale dello Stato	Italy
Davide	Travaglini	Italian Academy of Forest Sciences	Italy
Hiroyuki	Sase	Acid Deposition and Oxidant Research Center	Japan
Zane	Libiete	Latvia State Forest Research Institute Silava	Latvia
Ricardas	Beniusis	State Forest Service	Lithuania
Jan	Oldenburger	Probos Foundation	Netherlands
Dan	Aamlid	Norwegian Forest and Landscape Institute	Norway
Svein	Solberg	Norwegian Forest and Landscape Inst.	Norway
Pawel	Lech	Instytut Badawczy Lesnictwa	Poland
Ovidiu	Badea	Forest Research and Management Institute (ICAS)	Romania
Stefan	Neagu	Forest Research and Management Institute (ICAS)	Romania
Alexey	Ermolenko	Federal Forestry Agency	Russia
Roman	Glebov	Leningrad Region Forest Protection Center	Russia
Natalia	Lukina	Centre for Forest Ecology and Productivity RAS	Russia
Maria	Orlova	Centre for Forest Ecology and Productivity RAS	Russia
Tatyana	Yakusheva	Federal Forestry Agency	Russia
Zoran	Galic	University of Novi Sad Institute of Lowland Forestry and Environment	Serbia
Sasa	Orlovic	Ministry of Agriculture, Forestry and Water Management	Serbia
Mara Tabakovic	Tosic	Institute of Forestry	Serbia
Pavel	Pavlenda	National Forest Centre	Slovakia
Tibor	Priwitzer	National Forest Centre	Slovakia
Marko	Kovac	Slovenian Forestry Institute	Slovenia
Primož	Simoncic	Slovenian Forestry Institute	Slovenia
Daniel	Zlindra	Slovenian Forestry Institute	Slovenia
Vicent	Calatayud	Fundación CEAM	Spain

Paloma	Garcia	Forest Health Unit /Ministry of Environment	Spain
Gerardo	Sanchez	Forest Health Unit - Ministry of Environment	Spain
Lars	Lundin	Swedish University of Agricultural Sciences	Sweden
Sture	Wijk	Swedish Forest Agency	Sweden
Sören	Wulff	SLU	Sweden
Sabine	Augustin	Federal Office for the Environment	Switzerland
Sabine	Braun	Institute for Applied Plant Biology	Switzerland
Matthias	Dobbertin	Swiss Federal Research Institute WSL	Switzerland
Marcus	Schaub	Swiss Federal Research Institute WSL	Switzerland
Peter	Waldner	Swiss Federal Research Institute WSL	Switzerland
Banu	Karabiyik	General Directorate of Forestry	Turkey
Ahmet	Senyaz	Ministry of Environment and Forestry- Department of Research and Development	Turkey
Ali	Temerit	General Directorate of Forestry	Turkey
Ingrid	Martin		UK
Andy	Moffat	Forest Research	UK
Andrzej	Bytnerowicz	USDA Forest Service	USA
Danuta	Bytnerowicz		USA

## **Annex 2:**

### Agenda

29 May: Arrival

30 May: Excursion

31 May: Celebration

25<sup>th</sup> anniversary of ICP Forests - Celebration event

31 May/1 June: Conference

Item 1: Adoption of the agenda

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

Item 3: Reports by other ICPs

Item 4: Obligations towards WGE of CLRTAP

Item 5: Results and reports of ICP Forests in 2010

Item 6: Forest monitoring and cooperation with FutMon

Item 7: Forest monitoring beyond 2010

Item 8: Cooperation with international organisations

Item 9: Organisational issues

Item 10: Other business

1 June: Evening Reception

(with participants of the 2<sup>nd</sup> FutMon Status Workshop)

### **Annex 3:**

#### New mandate for the ICP Forests Quality Assurance Committee (QAC)

#### **Background**

The QAC was installed in 2007 with the main task to co-ordinate the quality assurance within the ICP Forests. Much work has been devoted to the revision of the ICP Forests Manual, with the development of Data Quality Requirements. While the original mandate expires by the Task Force 2010, an harmonized approach to QA is still necessary to face future data and information needs. The Chairpersons of and the members of the QAC ask the Task Force of the ICP Forests for a new mandate with the following terms of reference:

#### **Duration**

2010-2014

#### **Tasks**

**Field measurements.** Develop and monitor guidelines for QA/QC in field measurements (crown, growth, phenology, ground vegetation, ozone visible injury, meteo).

**Field sampling.** Develop and monitor guidelines QA/QC for field sampling.

**Monitoring and guidance for the future update and revision of Manuals, DQR etc, in particular:**

To identify proper data processing options (and rules to be attained in case of poor data quality)

To harmonise the preparation of basic data processing guidelines to be submitted to the various EPs

**Assist and advise PCC in data quality assessment** (to be included in the Technical and Executive Reports)

**Network integration.** QA/QC advise and assist the large-scale network integration process

## **Annex 4:**

### Activities and Tasks of ICP Forests June 2010 – May 2011

#### Implementation of the medium term strategy 2007-2015

- (a) Implementation of demonstration activities “Tree vitality and adaptation”, “Nutrient cycling and critical loads”, and “Water budgets”
- (b) Integration of Level I and NFI, reshape of Level I based on a representative inventory design
- (c) Core plot selection of Level II core plots
- (d) Strive for a prolongation of “FutMon” for the year 2011
- (e) Drafting of project proposal for EU-cofinancing of monitoring activities from 2012 onwards

#### Assessments of air pollution effects

- (f) Calculation of trends in nitrogen and sulphur total deposition and comparisons with respective data calculated by means of an EMEP model
- (g) Calculation of exceedances of critical loads (update)
- (h) Estimation of vegetation response to exceedances of critical limits
- (i) Assessments of the development of forest soils and vegetation under various scenarios of air pollution and climate change

#### Quality assurance and control

- (j) Further implementation of the overall QA/QC concept, including the development of quality indicators and definition of data quality requirements
- (k) Implementation of ringtests and field intercomparisons
- (l) Further development of the quality check programme for laboratories
- (m) Continuation of the laboratory assistance programme

#### Database management

- (n) Continuation and maintenance of the data submission and validation module for Level I and Level II data
- (o) Submission of Level I (2010) and Level II (finalization 2008, 2009) data by NFCs to PCC
- (p) Definition of data formats for 2011 extensive and intensive monitoring according to the revised ICP Forests manual
- (q) Further development of data validation routines
- (r) Reorganization of data dissemination

#### Reports

- (s) Publication of the 2010 Executive and Technical Reports
- (t) Submission of the 2010 Executive Summary to WGE
- (u) Drafting of the 2011 Executive and Technical Reports

#### Meetings

- (v) Training course assessment of damage causes: Leuven, Belgium, 14-17 June 2010;
- (w) Intercalibration course on visible ozone injury: Valencia, Spain, 20-24 September 2010;
- (x) Expert meeting on harmonisation of NFIs: November 2010 (venue open);
- (y) Expert Panel Meeting Ground Vegetation: 2010 (month and venue open);
- (z) 27<sup>th</sup> Task Force Meeting: May 2011 (Copenhagen, Denmark)

**Annex 5:**

## Programme Coordinating Centre (PCC)

## Financial Statement

Period from 1 January to 31 December 2009

	US\$	€
Balance per 01.01.2009 (debit)	553 063	397 401
<b>Expenses</b>		97 389
Funds received	0	0
Balance per 31.12.2009 (debit)	608 592	494 790
<b>Expenses</b>		
Consultants		0
Scientific staff/Administrative support personnel		90 401
Assistance to NFCs and CINT		0
Travel on official business		5 021
Expendable equipment		1 967
Operation and maintenance of equipment		0
Group training and meeting costs		0
Miscellaneous		0
Printing costs		0
Total		97 389

**Annex 6:**

Programme Coordinating Centre (PCC)  
Revised Basic Budget

Period from 1 January to 31 December 2011

Item	US\$
Consultants	0
Scientific staff and administrative support personnel	125.000
Travel on official business	10.000
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	5.000
Miscellaneous	5.000
<hr/>	
<b>Total</b>	<b>150.000</b>
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