



ICP Forests

European Union / United Nations Economic Commission for Europe International
Co-operative Programme on Assessment and Monitoring of
Air Pollution Effects on Forests

Combined Expert Panel Meeting on Foliage and Litterfall / Soil and Soil Solution /
Deposition / Crown Condition / Ambient Air Quality / WG QA/QC
(21th – 24th April 2015, Göttingen, Germany)

DRAFT AGENDA

A. Expert Panel Foliage and Litterfall

Tuesday April 21, 9:00 – 17:00/18:00

8:30-9:00	Registration
9:00-9:30	Opening, welcome and organisational items by organizers and EP chairs
9:30-10:00	Status of data, data use and publication policy (Rautio)
10:00-12:00	European foliar and litterfall data – past and coming evaluations (Rautio, Ukonmaanaho) <ul style="list-style-type: none"> presentations by EP members
12:00-13:00	Lunch
13:00-15:00	European foliar and litterfall data – past and coming evaluations (continues) <ul style="list-style-type: none"> presentations by EP members
15:00-15:20	Coffee break
15:20-17:00	<ul style="list-style-type: none"> Manual update, new codes (Fürst)
or -18:00	<ul style="list-style-type: none"> Future ring-tests: how to prepare ring-test samples etc. (Fürst)
17:00/18:00	Closing of the meeting

Wednesday April 22, 8:00 – 18:00

8:00-16:00	Combined session with all EP's
16:00-18:00	Combined session with WG QA/QC and EP Deposition

19:30 Social Dinner



B. Expert Panel Ambient Air Quality

Tuesday April 21, 9:00 – 17:00

8:30-9:00	Registration
9:00-9:15	Welcome and today's program. Adoption of the agenda (Marcus Schaub)
9:15-9:45	Ozone exposure and effects on vegetation in Trentino, northern Italy (Marco Ferretti)
9:45-10:15	The responsiveness of <i>Viburnum lantana</i> to ozone: potentialities and perspectives as in-situ bio-indicator (Elena Gottardini)
10:15-10:45	Ozone exposures and effects in Czech Republic (Iva Hůnová)
10:45-11:15	Aggregation of ozone symptoms across Europe (Vicent Calatayud)
11:15-11:45	WGE Trend Report: Ozone concentration and exposure trend analyses across Europe (Marcus Schaub)
11:45-12:00	Wrap up of presentations on recent results (Marcus Schaub)
12:00-13:00	Lunch
13:00-13:30	Status of data – an overview (Marcus Schaub)
13:30-14:15	Aggregation and resubmission for data base – next steps for i) passive O3 data, ii) active O3 data, iii) symptom data (Marcus Schaub)
14:15-15:00	Coffee
15:00-15:30	Discussion on changes in ICPF Manuals VIII & XV (All, moderator Vicent Calatayud)
15:30-16:00	<u>A visionary outlook from a data scientist (M. Häni)</u>
16:00-16:30	Discussion on combined analyses, new ideas for measurement campaigns, possibilities for co-funding and project proposals, possible collaborators - (All, moderated by Marcus Schaub)
16:30-16:45	Future organization of EP AAQ (All, moderated by Marcus Schaub)
16:45-17:00	Upcoming meetings and events (Marcus Schaub)
17:00	Closing of the meeting

Wednesday April 22, 8:00 – 18:00

8:00-16:00 Combined session with all EP's

19:30 Social Dinner



C. Expert Panel Deposition

Wednesday April 22, 8:00 – 18:00

7:30-8:00	Registration
8:00-16:00	Combined session with all EP's
16:00-18:00	Combined session with WG QA/QC and EP Deposition

19:30 Social Dinner

Thursday April 23, 8:30 – 15:30

8:00-8:30	Registration
8:30-8:45	Welcome and today's program; Adoption of the agenda (Karin Hansen)
8:45-9:00	Adoption of the minutes of 15th EPD in Ljubljana (Daniel Zlindra)
9:00-9:30	Aggregated deposition data in the database - what do we have and how do we continue? (Peter Waldner)
9:30-9:45	Corrected data in the data base - resubmission? Following up on the discussion in the combined EP meeting (Aldo Marchetto)
9:45-10:00	Discussion on the session Data and database
10:00-10:10	Status of data, data use and publication policy - overview of past and future evaluations (Karin Hansen)
10:10-10:30	Comparison of total N concentrations in deposition samples determined by two different methods (Arne Verstraeten)
10:30-11:00	Coffee
11:00-11:20	Deposition in urban forests - results from the EMoNFUr project (Daniel Zlindra)
11:20-11:40	DON and DOC:DON levels, trends (2005-2013) and patterns in deposition and soil solution in Flanders (Arne Verstraeten)
11:40-12:00	The use of ion exchange resin (IER) columns to collect open field precipitation and throughfall (Jim Johnson)
12:00-13:00	Lunch
13:00-13:30	Comparison of measured ICP Forests bulk and throughfall deposition with modelled EMEP data (Aldo Marchetto)
13:30-14:00	Maps of bulk deposition and comparison with EMEP estimates (Manuel Nicolas)
14:00-14:20	Percentage of stemflow to throughfall and its relevance for the calculation of the total deposition (Peter Waldner)
14:20-14:40	Total (wet + dry) deposition of sulphur, nitrogen and base cations to Norway spruce forests in Sweden (Per Erik Karlsson)
14:40-15:00	Future work in the EP Deposition; Possibilities for co-funding and project proposals - new ideas, possible collaborators; Upcoming meetings and events; Closing of the meeting (Karin Hansen)
15:00-15:30	Coffee



D. Expert Panel Soil and Soil Solution

Wednesday April 22, 8:00 – 18:00

7:30-8:00	Registration
8:00-16:00	Combined session with all EP's
16:00-16:10	Adoption of the agenda (Bruno De Vos, Chair FSEP)
16:10-16:30	Adoption of the minutes of 18 th FSEPM Ljubljana (Nathalie Cools, FSCC)
16:30-17:30	Item 1: Update of the Manual on Sampling and Analysis of Soil 2016 <ul style="list-style-type: none"> • Presentation on WRB 2014: differences with WRB2006, consequences for the manual and data reporting (WRB2014 available from http://www.fao.org/3/a-i3794e.pdf) • Initiate exercise on national update of classification of Level II soil profiles • Work plan on manual update
17:30-18:00	Item 2: AFSCDB.LIII Solid Soil data issues Level II feedback countries on AFSCDB.LII.2.1 (Experts will receive extract from database in due time for checking)

19:30 Social Dinner

Thursday April 23, 8:30 – 18:00

8:30-9:30	Item 3: Update Soil Solution Manual 2016 (Tiina Maileena Nieminen) <ul style="list-style-type: none"> • Inconsistencies and flaws noticed in the current version • Options for the update
9:30-10:30	Item 4: Soil Solution database <ul style="list-style-type: none"> • Quality check of soil solution data from the PCC database (Elisabeth Graf Pannatier, Tiina Maileena Nieminen) • Discussion: how to proceed? How including changes in official database – internal working datasets? Who has access? Who's responsibility? Update numbers? Informing countries?
10:30-10:50	Coffee
10:50-12:00	Item 5: FSCDB.LI.2.1: status, data requests and evaluations <ul style="list-style-type: none"> • Status and progress of the Level I forest soil condition database FSCDB.LI.2.1 and BioSoil biodiversity database (Bruno De Vos with input from Roberto Canullo) • Contribution to book chapter EHRG "Storage of carbon and macro-nutrients in European forest soils" (Nathalie Cools) • COST action FP1206 (EuMIXFOR) "Exploratory analysis of data availability for a pan-European study on soil condition change in mixed vs. pure forest stands" (Andrés Bravo)



- Level II soil data needs for the study of Ectomycorrhizal Fungi in European Forests (Sietse van der Linde)

12:00-13:00 lunch

13:00-14:00 Item 5 (continued)

- Validation of existing pedotransfer functions for soil hydraulic properties using water retention and conductivity data measured on soil samples from forest stands across Europe (Schmidt-Walter, P. *et al.*)
- Soil organic carbon stocks of European forests by boosted regression tree modeling (De Vos *et al.*)
- Plant functional trait patterns in key EU forest types and links with soil (Weinstein, C *et al.*)

14:00-15:00 Item 6 Soil solution evaluations

Analysis of temporal trends of soil solution data on the Level II plots of ICP-Forests:

- Trends of DOC in soil solution and factors explaining these changes (presented by Graf Pannatier E. on behalf of Camino-Serrano, M.)
- Reaction of soil solution acidity to acid deposition (Graf Pannatier, E.)
- Nitrogen saturation of forest ecosystems and nitrate leaching (Jonard, M.)
- Analysis of temporal trends of soil solution data on the Level II plots of ICP-Forests (Daenner, M., Raspe, S., Waldner, P.)

15:00-15:40 Item 5: The Future

- Information on organization of next Soil Interlaboratory Comparison 2015 (Tamara Jakovljevic)
- Discussion on the need/feasibility/strategy for third EU wide Level I Forest soil survey in ~2020
- Relevant forest soil condition indicators for State of Europe's forests (SoEF) reporting
- BiodivERsA 2015 joint call in May- who will participate in a proposal on theme #1: Understanding and managing the biodiversity dynamics of soils ...

15:40-16:00 Coffee

16:00-17:00 • Round table on Level II national soil survey initiatives (timing, status, reporting, ...)

Participation of EP members in upcoming meetings:

- 4th Scientific Conference and Task Force (May, 2015)
- IUFRO meeting (June, 2015)
- Announcement 5th meeting of the heads of the labs in Vienna, Austria, end of Sept '15

17:00-18:00 Item 6: Soil and soil solution monitoring and evaluation at national level

- DON and DOC fluxes through forest ecosystems in the UK - from canopy through soils (Vanguelova E.)
- Comparison of results obtained by suction cup lysimeters to those



obtained by zero-tension collectors: preliminary results (Nieminen, T. M.)

- Changes in nutrient and carbon stocks in French forest soils under decreasing atmospheric deposition (Saenger, A. et al.)
- Status of the Nitleach II project in Switzerland (Waldner, P. et al.)

AOB: Where and when 20th FSEPM (anniversary edition)?



E. Expert Panel Crown Condition

Wednesday April 22, 8:00 – 18:00

7:30-8:00	Registration
8:00-16:00	Combined session with all EP's
16:00-16:15	Welcome and adoption of the agenda (Nenad)
16:15-16:35	Presentation of 2015 TR (Alexa Michel)
16:35-17:00	European wide evaluation including some external investigations (Tanja Sanders)
17:00-17:30	2015 TR/Evaluation (Discussion)

19:30 Social Dinner

Thursday April 23, 9:00 – 17:00

9:00-9:30	ICC 2014 report (Nadine Eikenscheidt)
9:30-10:00	Photo ICC 2015 (PCC)
10:00-10:30	Proposal for Manual update Damage (working Group)
10:30-11:00	Coffee break
11:00-12:00	Manual update Damage (discussion and adoption)
12:00-13:00	lunch
13:00-13:30	Mast behaviour of the main forest tree species in Europe: Spatial and temporal patterns (Anita Nussbaumer)
13:30-14:00	Fructification and defoliation in beech in Denmark (Iben Thomsen)
14:00-14:30	Results from the questionnaires fructification (beech) and flowering (pine) (Nenad and Volkmar)
14:30-15:00	Coffee break
15:00-15:30	Proposal for Manual update Crown (Nenad and Volkmar)
15:30-16:30	Manual update Crown (Discussion and adoption)
16:30-17:00	AOB, closing of the meeting (Nenad)



F. Working Group QA/QC in Labs

Wednesday April 22, 13:00 – 18:00

13:00-13:05	welcome, technical information
13:05-14:00	Preparation of the meeting of the heads of the labs September 2015 in Vienna, Austria: invitation, main topics, presentations
14:00-14:45	new method code for ring tests and data submission
14:55-15:15	next ring tests: soil, foliar
15:15-15:30	Miscellaneous: <ul style="list-style-type: none">- date and place of the next meeting- others
15:30-16:00	Coffee
16:00-18:00	Combined session with EP Foliage and EP Deposition: Results of the 16th and 17th foliar and the 7th deposition ring test and discussion of the results

19:30 Social Dinner



G. Combined Expert Panel Meeting (Foliage, Ambient Air, Deposition, Soil Crown)

Wednesday April 22, 8:00 – 16:00

8:00-8:15	Welcome and Program; Administrative businesses (Bruno de Vos, Nils König)
8:15-8:35	Deposition, soil condition and defoliation as SFM indicators: recent (and urgent) issues for consideration (Marco Ferretti)
8:35-8:45	Towards a joint, high-level scientific paper based on ICP Forests data (Marco Ferretti)
8:45-8:55	Reporting Requirements, Joint Evaluations, and Future Cooperations of ICP Forests (Alexa Michel)
8:55-9:25	Information on the developments of the ICP Forests database. Plans on changes, suggestions and timeframe. Announcement of data workshop (Till Kirchner)
9:25-9:40	Problems in the deposition data form (old versus new) as an example of problems that can be present in all data forms - solutions for solving it (Aldo Marchetto)
9:40-10:00	Best possible ways to include changes in official database? Internal working datasets? Who has access? Who's responsibility? Update numbers? Informing countries?
10:00-10:30	Coffee
10:30-10:50	Initiation of a gap filling exercise on core plots with complete data. Aim to make an overview of existing data and their storage in the data base for internal evaluations mainly (Bruno de Vos)
10:50-11:10	The aggregated forest soil condition database of the Levell II 2nd Soil Survey - contents, publication status, and procedures Stefan Fleck, Nathalie Colls)
11:10-11:30	The aggregated deposition data base - status and further work (Peter Waldner)
11:30-12:00	Exchange of standard evaluation methods, e.g. R scripts for evaluation of ICP Forests data (Peter Waldner, Aldo Marchetto)
12:00-13:00	lunch
13:00-13.30	How to proceed with the gap filling? Which plots should be core plots? Access to aggregated data?
13:30-13:45	WGE trend report "Environmental responses to reductions in long-range transported atmospheric pollutants" (Tanja Sanders and Alexa Michel)
13:45-14:05	Forest productivity, carbon sequestration, climate change (Henning Meesenburg)
14:05-14:25	Spatial-temporal modeling of defoliation in European Forests (Nicole Augustin)



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14:25-14:45	Phosphorus nutrition of beech (<i>Fagus sylvatica</i> L.) is decreasing in Europe Ulrike Talkner)
14:45-15:00	Ozone trends across Europe (Marcus Schaub)
15:00-15:15	Water budget modelling and the preparation of meteorological data for various combined evaluations. How to proceed? (Stephan Raspe)
15:15-15:30	Publication strategies and ethics. Update of publication list.
15:30-15:40	Follow up from the day (Bruno de Vos)
15:40-16:00	Coffee



H. Excursion Harz-Mountains and UNESCO World Heritage Upper Harz Water Management System

Friday April 24, 8:00 – 17:00

7:30-8:00	departure at the Northwest Forest Research Station
8:00-9:30	trip to the Harz mountains
9:30-11:00	visit of the Level II plot Lange Bramke
11:00-11:30	trip to Oder pond
11:30-12:30	guided tour at the Oder pond (part of the UNESCO World Heritage Upper Harz Water Management System)
12:30-13:00	trip to mine Samson
13:00-14:00	lunch break (with some specialities from the Harz mountains)
14:00-15:30	guided tour at the mine Samson (part of the UNESCO World Heritage Upper Harz Water Management System)
15:30-17:00	trip back to Göttingen
17:00	arrival in Göttingen





More Information about the UNESCO World Heritage Upper Harz Water Management System you can find with the link:

<http://whc.unesco.org/en/list/623>