

**International Cooperative Programme on
Integrated Monitoring of Air Pollution Effects on Ecosystems (ICP IM)
23rd Task Force meeting, Minsk, Republic of Belarus, May 7, 2015.**

Explanatory notes to the agenda

1. Opening of the meeting

2. Approval of minutes of the 22nd ICP IM TF in Westport, Ireland, 2014.

3. Report from Chairman and Programme Centre

The ICP IM activities are described in more detail in the 24th Annual Report 2015.

The Chairman and the Programme Manager presented the progress made by ICP IM during 2013/2014 at the Working Group on Effects (WGE) in September 2014. The work programme for 2014-2015 was also presented. The WGE welcomed the plan for future work.

The Chairman of WGE noted the positive results of further co-operation between ICPs in view of the priorities of the Executive Body (EB). Special notice was put on the preparations regarding the updated long-term strategies of the Convention. The strategy was adopted by EB in December 2011 and implementation is in progress. Protocols were accepted in December 2012 and now being implemented. The Protocol on Heavy Metals was retrieved in August 2014.

The Long-term strategy involves procedures for more policy relevant information, ongoing sufficient monitoring and modelling, improved understanding of air pollution processes and trends and to provide the scientific background for effectiveness of protocols to meet the pollution impacts. Emphasis is put on joint outcomes from EMEP and WGE for policy oriented messages and further actions by Parties.

There is a great interest and needs to have wider and closer cooperation with EECCA (Eastern Europe, Caucasus and Central Asia) and SEE (South East Europe) countries. However, in the slightly difficult financial situation there were limited possibilities for these countries to participate in the WGE session. Another problem was that all documents were not translated into French or Russian. Anyhow, new attempts to increase these activities were promoted. Special funds exist to improve participation as capacity building. These funds have in 2015 been reduced.

There has been a change in the Chair of the CLRTAP EB where Mr. Martin Williams has resigned and new Chair is Ms. Anna Engleryd, Sweden (Swedish Environmental Protection Agency) and the free vice chair after her was filled by Mr. Richard Ballaman, Switzerland.

The chair of the WGE presented the WGE Joint report and a report on recent results and updating of scientific and technical knowledge including the suggested Workplan for 2014-2015. The Working Group and subsidiary bodies have maintained the work in spite of financial constraints. In fact, output has even increased. Reports have been directed towards societal needs and partly also delivered in direct request of the Convention. A special thematic report focuses on the health impacts of residential heating with wood and coal with policy options (ECE/EB.AIR/WG.1/2014/14; ECE/EB.AIR/2014/6).

A number of highlights in the Joint report relate to;

- *air pollution as being the main environmental to the burden of disease in the ECE region,
- *health effects of residential heating and urged to improve the combustion efficiency or turn to gas or electricity,
- *there is a new ozone response function to be used in integrated assessment modelling,
- *a web-based app has been developed to report leaf damages,
- * a report on vegetation damages in EECCA and SEE countries is published,
- *the biodiversity indicator “*habitat suitability index*” has been developed,
- *an empirical critical load for lichens on tree stems of $2.4 \text{ kg N ha}^{-1} \text{ yr}^{-1}$ was suggested,
- *an institute in the Russian Federation will lead the moss survey,
- *corrosion of materials has decreased by c. 50% since 1987

The reports and meeting documents can also be found at the document pages of the EB:

<http://www.unece.org/index.php?id=33605>

Report on the work within the Working Group on Strategies and Review focussed on the review of the Convention structure and the workplan for 2014-2015. Parties gave presentations on the implementation of measures to reduce air pollution and this was found to be most constructive.

The chair of the EMEP steering body provided information on EMEP actions and noted the revised Guidelines for reporting emissions. Increased cooperation between EMEP and WGE has started and a joint workplan for 2014-2015 was developed. In 2015 there was a joint EMEP and WGE meeting in March 2015 and this will be repeated in September 2015.

Further development of effects-oriented activities included an impact assessment in the context of hemispheric transport of air pollution. A presentation from the EMEP Task Force on Hemispheric Transport of Air Pollution reported progress in global emission estimates, emission scenarios and on global and regional model source-receptor calculations. This was directed to make analysis and engage experts outside the Convention countries.

The report from the ICP evaluation recommended streamlining the work and improving collaboration between the ICP:s. Actions have started but financial constraints need to be considered and effective cooperations between subsidiary bodies could be the current way forward. It was also mentioned that a stronger scientific content and connections to EMEP and WGE are needed. Monitoring and modelling need to continue with good scientific focus in line with the CLRTAP Long-term strategy. Specific work will be brought up further on in the document and session.

Structure of work was still in 2014 fairly traditional and changes in meeting structure are implemented in 2015 when EMEP and WGE should have a joint meetings in March and in September and Working Group on Strategies and Review (WGSR) will meet in December. The EB meeting was planned for spring or early summer 2016. However, this changed and there will be a meeting of the EB in December 2015.

The draft 2014-2015 Workplan for the implementation of the Convention on Long-range Transboundary Air Pollution has been decided and plans for the 2016-2017 programme started to be considered with common items implemented to be updated in June after

decisions by the ICP TFs. The joint workplan between EMEP and WGE has been prepared and it considers 2016-2017 and related issues will be discussed in this meeting.

EMEP and WGE homepages should have a common portal. Currently, the UNECE changed the webpages and WGE content is not easily found. Possibly, an entrance through EMEP provide some information.

EB has highlighted the importance of black carbon and particles to the Convention, especially related to the health impacts. Methane is also now included.

Activities discussed in the 2014 EMEP and WGE common meeting were related to the planned Convention Assessment Report 2016, a planned joint Trends report for 2015 and other activities of common interest to EMEP and WGE such as the EMEP grid spatial resolution with possible implications for changes in critical load exceedances.

The Assessment report for 2016 should support the policy report and include sections on what has been achieved by Convention work, what are the remaining problems, what is possible to achieve with further measures, institutional organisation and infrastructure and a wider cooperation with other international bodies. A hemispheric approach would be considered. The draft report should be reviewed in the joint EMEP and WGE meeting in September 2015 and by WGSR in December. After this the report will be finalized with the intention to present it and an executive summary version of 35 pages and 16 questions to the 8th Ministerial Conference “Environmental for Europe Conference” in Batumi, Georgia in June 2016.

In 2014, there was an initiative for a common EMEP and WGE Trends report and this has proceeded in the lead of ICP Waters Head of Programme Centre and a draft was discussed in the meeting in March in Geneva. The report is in progress and amendments added in March with intention for a final draft in June 2015 and to be presented for the joint EMEP and WGE meeting in September.

4. Progress in WGE activities 2014

Highlights from the ICPs, TF Health and JEG;

ICP Forests; the database has high priority and was updated and evaluations carried out. Nitrogen and ozone impacts were in focus in the ICP Forests scientific conference and it resulted in 42 publications,

ICP Waters; presented recovery from acidification in surface water chemistry and also fresh water biology but with possible delay by climate change influences,

ICP Materials; reported on trends in air pollution, corrosion and soiling showing a 50% decrease in corrosion since 1987 but in recent years poor improvements. Decreases in air pollution have direct effects on metals but long lag time for stone improvements, 20 years,

ICP Vegetation; reported on a simplified approach for ozone in the Modelling and Mapping Manual, a report on air pollution effects in Eastern and SEE countries, heavy metal impacts on biological systems and negative impacts of nitrogen on biodiversity, with transfer of coordination of future inventories on mosses to the Russian Federation,

ICP IM; a strong decline is shown in sulphur deposition and stored S now being released to surface waters. Nitrogen still accumulates in the ecosystems and output is very low

compared to input. At low CN ratios and N deposition exceeding critical loads there is risk for enhanced nitrogen leaching. For sites with exceedances of CL it has been observed biodiversity effects with negative trends on oligotrophic species. Also ongoing accumulation of heavy metals, especially Hg was mentioned,

ICP M&M; reported progress in the development of a biodiversity “*Habitat Suitability Index*” the update of the Mapping manual to be presented to WGE in September 2015, adapt the critical load data to the EMEP longitude and latitude grid and to update the national critical loads data,

TF Health; concluded the importance of air pollution to human health and the impacts of domestic heating with wood and coal. A document was published “*Residential Heating with Wood and Coal: Health Impacts and Policy Options in Europe and North America*” and the document summarizes the WHO document on *Indoor Air Quality Guidelines for Household Fuel Combustion* published in October 2014. The report was presented to EB in December 2014.,

JEG presented progress in dynamic modelling in particular with respect to nutrient nitrogen with respect to biological response to changing deposition, aquatic biodiversity and interlinks between air pollution and climate change. The continuing work by JEG will be carried out in cooperation with the Swedish Clean Air and Climate Research Programme, SCAC.

5. Updating of scientific and technical knowledge

The Chairman of WGE drew attention to the pollutant specific topics presented in the 2014 Joint report, the technical reports of the ICPs and additional supporting documents such as for ICP IM, the Annual Report No. 23, 2014. ICP IM technical report is [ECE/EB.AIR/WG.1/2014/9](#). WGE noted with satisfaction the IM Annual Report and mentioned especially the report on progress on dynamic vegetation modelling at ICP IM sites and the report on sulphur and nitrogen input-output budgets at ICP Integrated Monitoring sites in Europe 1990-2012. Further, the national reports of Estonia, Finland, Ireland, Poland and Sweden were noted. ICP IM also contributed to the 2014 Joint report [ECE/EB.AIR/WG.1/2014/3](#).

The joint report highlighted the achievements of the 2013-2014 workplan period supporting the results of the Convention work with policy interests. The report highlighted impacts of air pollution on human health, effects of ozone on ecosystem services and biodiversity, development of a biodiversity index, nitrogen impacts in forests and corrosion decreasing trends, all outlined above.

The WGE Chair presented the further development on effects-related outreach activities to the total hemispheric region and mentioned especially contacts to SEE (Southeast Europe) and EECCA (Eastern Europe, Caucasus and Central Asia) countries. Outreach from IM include east European countries and is further linked to the work and collaboration with LTER Europe and EU project.

The workplan for 2014-2015 was adopted with EB recommendations for harmonizing as much as possible the workplans and cooperation between WGE and EMEP. It had also earlier recommended that the workplan items would be the basis for programme financing from the trust fund.

Financing is presently on a fairly stable level but in a decreasing trend and for 2015 the funds will be reduced (ECE/EB.AIR/WG.1/2014/4). Rather important though, is the scarce resources in the UNECE secretariat that are unfortunate. For the programmes the essential support provided from Parties to the WGE effects oriented activities was appreciated, especially the amount of voluntary contributions by lead countries, countries and organisations hosting coordinating centres and organizing meetings. No binding commitments on support are included but voluntary contributions are welcomed.

Election of WGE officers; Re-election of The Chair Mr. Peringe Grennfelt, Sweden and vice chairs Mr. Jesper Bak (Denmark), Ms. Gudrun Schuetze (Germany) and Ms. Sonja Vidic (Croatia), Ms. Sabine Augustin (Switzerland) was elected. New election of three vice chairs being Mr. Thomas Dirnböck (Austria), Mr. Nebojsa Redzic (Serbia) and Ms. Isaura Rabago (Spain).

Next WGE is scheduled for 14-18 September 2015 and this would be meeting No. 34.

6. Notes from the WGE Extended Bureau meeting

The chairman of ICP IM participated in the WGE Extended Bureau meeting in Geneva on March 18-19, 2015. The Chair Peringe Grennfelt led the meeting and also the EMEP SB Chair Ms. Laurence Rouil (France) participated. In the days before EMEP SB had an EMEP specific meeting followed by a joint EMEP SB and WGE Extended Bureau meeting.

The joint EMEP SB and WGE Extended Bureau meeting on March 17-18 was chaired by EMEP SB Chair Laurence Rouil. She presented organisational issues related to EMEP and WGE with decision on a joint meeting in September 2015. Especially brought up was data handling and quality assessments of EMEP data. Also the common EMEP and WGE Assessment report was presented as outlined above.

The homepages of WGE and EMEP could be harmonized and all the homepages of all the Convention bodies should be updated and improved. Entrance now from UNECE or possibly from EMEP homepage.

Work within HTAP, Hemispheric Transport of Air Pollution, was presented and includes, in a hemispheric scale, health, ecosystem and modelling with interactions between air pollution and climate including ozone, atmospheric compounds, Hg and POPs. Also work within TF MM, measurement and modelling, addressed reduction in emissions over 20 years 1992-2012.

In the following two days, the WGE Extended Bureau meeting continued mentioning EB decisions such as appreciated reporting from WGE, the new Chair of EB Ms. Anna Engleryd and the substitute Mr. Richard Ballaman. The joint EMEP and WGE assessment report was again presented and discussed. Further, the Workplan for 2016-2017 should be settled by the end of the year and starting with common items brought from EB with now a more top-down approach. Mentioned was increased communication between science and policy. Added to the workplan should be ICP specific content to be decided at the TF meetings. Reported to the Secretariat by June 2015 and decided at WGE in September.

From EB meeting in December was reported the TF Health report on domestic heating; “*Residential Heating with Wood and Coal: Health Impacts and Policy Options in Europe and North America*”.

Mentioned was also the work within the ICPs to be more efficient and with enhanced collaboration. Also national activities of the ICPs could benefit from more cooperation. For ICP IM collaboration should be discussed with ICP Waters concerning trends evaluation and together with ICP Forests an update of the “*Cause-Effects harmonization report (de Vries et al., 2002)*” (item 8). Further recommendations on activities under item 13.

The common report for WGE on Trends was presented and a special session dedicated to this with improvements to be made, first to mid-April for draft finalization in June and with presentation to WGE in September. The status of the report, translation and form were not clear and still pending.

7. CLRTAP Workplan

There is a new two year workplan, currently 2014-2015 and start of the new two years 2016-2017 in progress. The CLRTAP aims at getting more visible and to achieve this one way is enhanced collaboration with other organisations and conventions such as WHO, UNEP, UNFCCC and CBD. UNEP has already started enlarged geographical extent. Outreach should be encouraged.

”Arctic council” contacted LRTAP for enhanced work on soot ”black carbon” and methane, now included in air pollution. Ministers within the ”Arctic council” should meet on April 24-25 and LRTAP will communicate work on black carbon and methane.

Preparations for WGE 2014 follow ordinary outline with a short Joint report highlighting results from workplan items and showing the policy relevance. There will be a joint EMEP and WGE meeting in September followed by the WGE meeting on September 17-18, 2015. Next Extended Bureau meeting is planned for 16-17 September 2015.

8. ICP IM activities 2014-2015

The ICP IM activities in 2014/2015 included work on S and N in-/output budgets for IM sites, dynamic vegetation modelling, the Annual ICP IM Report No 23 and common items such as outreach and common activities (ECE/EB.AIR/WG.1/2014/9). The document can be found on; <http://www.unece.org/index.php?id=32278>

Meetings:

- ICP IM Programme Manager Martin Forsius took part in the LIFE Platform Meeting ‘Climate change – ecosystem services approach for adaptation and mitigation’ in Norwich, England, 14–15 May 2014.
- The Chairman Lars Lundin represented the ICP IM programme at the 30th ICP Forests Task Force meeting in Athens, Greece, 29–30 May 2014.
- Lars Lundin and Martin Forsius participated in the joint meeting between the WGE Extended Bureau and the EMEP SB, 17 September 2014 in Geneva, Switzerland.

- Lars Lundin and Martin Forsius represented ICP IM in the Working Group on Effects (WGE) 33rd meeting in Geneva, Switzerland, 17–19 September 2014.
- Martin Forsius took part in the ExpeER International Conference 2014, ‘Experimentation in Ecosystem Research in a Changing World: Challenges and Opportunities’ in Paris, France, 24–25 September 2014.
- Martin Forsius participated in the Senior Arctic Officials (SAO) meeting in Yellowknife, Northwest Territories, Canada, 21–23 October 2014.
- Martin Forsius attended the TERENO International Conference 2014 ‘From observation to prediction in terrestrial systems’ in Bonn, Germany, September 29th – October 2nd 2014.
- Jussi Vuorenmaa represented the ICP IM programme at the 30th Task Force meeting of ICP Waters in Grimstad, Norway, 14–16 October 2014.
- Martin Forsius represented ICP IM in the 22nd ILTER Annual Meeting on Chiloé Island, Chile, 4–8 December 2014.
- Martin Forsius participated in the AMAP Heads of Delegation Meeting in Copenhagen, Denmark, 4–5 February 2015.
- Lars Lundin represented ICP IM programme in the Joint meeting of the EMEP Steering Body and the Extended Bureau of the Working Group on Effects in Geneva, Switzerland, 16–19 March 2015.
- Filip Moldan took part and represented ICP IM in the 25th CCE Workshop and 31st Task Force Meeting of the ICP M&M in Zagreb, Croatia, 20–23 April 2015.
- The twenty-third meeting of the Programme Task Force on ICP Integrated Monitoring was held in Minsk, Belarus on 7 May 2015. A one-day workshop on the assessment of ICP IM data was held prior to the Task Force meeting on 6 May.
- The Chairman Lars Lundin will represent the ICP IM programme at the 31st ICP Forests Task Force meeting in Ljubljana, Slovenia, 20–22 May 2015.

The Programme Centre received the 2013 data from most IM sites, data are now stored in the ICP IM database; further on item 10.

Laboratories participating in the ICP IM Programme took part in the inter-comparison tests organised by ICP Waters, ICP Forests Expert panels and EMEP.

Scientific work regarding priority topics has continued:

The Programme Centre prepared the ICP IM contribution on common items for WGE reported in September 2014 (mentioned above).

The Programme Centre prepared the ICP IM contribution to the WGE 2014 Joint report (ECE/EB.AIR/WG.1/2014/3).

The Programme Centre prepared the ICP IM 23rd Annual report 2014 and also the technical document ECE/EB.AIR/WG.1/2014/9 submitted to the WGE in 2014. Included in the reporting were the workplan items:

A Progress report on dynamic vegetation modelling at ICP IM sites; Holmberg, 2014.

Sulphur and nitrogen input-output budgets at ICP Integrated Monitoring sites in Europe in 1990-2012; Vuorenmaa et al., 2014.

Further workplan items for 2015 and priority topics will be discussed under items 11,12 and 13.

9. Reports from WGE and other ICPs

The representatives of the WGE, UNECE Secretariat and other ICPs participating in the IM TF meeting may report progress in their work under this item. Matters of discussion with ICPs are partly derived from the ICP IM workshop on May 6.

At the WGE Extended Bureau meeting in Geneva on March 18-19, 2015, key issues discussed were related to the WGE Joint report, combined workshop with EMEP, outreach activities and implementation of recommendations for the Convention organisation, especially the common EMEP and WGE homepage; see also item 3 report from Extended Bureau meeting, 12 and 13.

- (i) The long-term strategy was adopted by EB in December 2011.
- (ii) Workplan items and workshop events have been updated,
- (iii) Medium term workplan for ICP IM starts to form plans for the years 2016 and 2017 which will be covered under items 11, 13 and 14; technical report in item 12 submitted June 30, 2015,
- (iv) Co-operation between WGE and EMEP with a joint meeting 17 September 2015,
- (v) Preparations of the 34th session of WGE, ordinary ICP activities will be given a short overview with main focus on common items and thematic scientific reporting, especially policy relevance of the ICP results,
- (vi) Financial issues with EB review; funding from Trust Fund for the nearest coming years seems fairly stable but in a decreasing trend.

10. Data submission and database status

The Programme Centre will present the current status of the database for the meeting. A detailed description is given in the 24th Annual Report 2015.

Most of the National Focal Points have submitted the results from 2013 to the Programme Centre. These data are incorporated into the IM database.

The following countries have continued data submission to the ICP IM data base during the period 2010 – 2014: Austria, Belarus, the Czech Republic, Estonia, Finland, Germany, Italy, Latvia, Lithuania, Norway, the Russian Federation, Spain, Sweden, and Ukraine. Ireland re-

established a site in 2012 and will report data later this year and Switzerland will include a new site in 2015. Poland has indicated interest to include one or more sites to the network. The number of sites with on-going data submission for at least part of the data years 2009-2013 is 43 from thirteen countries.

The meeting is expected to discuss ways to improve the data reporting and criteria for participation in the programme, as well as ways to support the national ICP IM work.

11. Reports to be prepared/finalized in 2015

ICP IM reports:

a) 24th Annual ICP IM report (AR)

The Programme Centre has prepared the draft version of the report. According to a previous decision of the ICP IM Task Force, the Annual Report should contain summarised information on the status and progress of the activities. Detailed results from data assessments should be presented in scientific papers and separate technical reports. The workplan items should be reported in the AR. The content of the Annual Report 2015 follows this concept. It is proposed to include country specific reports as annexes in the AR. The Annual report should be presented at the WGE meeting in September 2015. The meeting is expected to discuss the content of the report and decide about the presentation to WGE.

b) Progress report on dynamic modelling and vegetation responses at ICP IM sites; Holmberg et al., 2015.

c) Preliminary report on Long-term trends in ecosystem effects of sulphur and nitrogen at ICP IM sites; Vuorenmaa et al., 2015.

d) Progress report on heavy metal trends at ICP IM sites; Åkerblom & Lundin, 2015.

e) eLTER EU/H2020 research infrastructure project: relations to ICP IM activities; Forsius, 2015.

Activities common to all ICPs, the Task Force on Health and the JE Group:

f) Comparison of activities across continents and regions; outreach and hemispheric view will relate to HTAP, EECCA, SEE and LTER as regards ICP IM. Informal document prepared by the secretariat with support from the Chairs of the EMEP Steering Body and the Working Group on Effects. Compiling activities and ideas/proposals; to be reported on Convention outreach activities.

The Programme centre will report the ICP IM contributions to the common activities to the CLRTAP secretariat in the end of June (item 12) and September 2015.

12. ICP IM Technical reporting

Report by June 30, 2015. Still there could be unofficial reports such as the ICP IM AR where we may present workplan item results. ICPs should explore possibilities to include country reports.

13. Considerations in perspective of more efficient organization

Recommendations on further ICP common activities are;

1. Common webpage
2. Develop a meta-data base
3. Improve visibility. Common issue for EMEP and WGE. Cooperation with other Conventions.
4. Harmonised methods communicate that we are using but also making sure that this is the case. Intercalibrations across ICPs.
5. Thematic workshops; e.g. trends, ozone, nitrogen, biodiversity.
6. Open science workshops.
7. Thematic reports. Here could be mentioned the Joint Trends report 2015.
8. To discuss the joint ICP Forests update of the “Cause effects report”.
9. Improve collaboration within countries.
10. Long-term item: Develop harmonised database for centres.

14. Co-operation with other ICPs and external projects/organizations: LTER-Europe, ALTER-Net, LifeWatch, Expeer, Natura 2000, etc.

UNECE activities:

The meeting is expected to discuss coordination of work and cooperation with other ICPs, particularly regarding dynamic modelling (all ICPs), cause-effect relationships in terrestrial systems (ICP Forests, ICP Vegetation), and surface waters (ICP Waters). Presentations of some of these topics are made during the IM workshop on May 6 and under item 4 and 13. Decisions on further work should be reflected in the future work plan.

Further quantification of policy-relevant effects indicators such as biodiversity change that should be linked to integrated modelling work may be related to CBD.

Expert panel on heavy metals. Activities now on low level and not included in the 2016 Assessment report but should be considered.

More meetings could be found on; <http://www.unece.org/info/events/meetings-and-events.html#/>

LTER-Europe:

The European LTER network (European Long-Term Ecosystem Research Network) is developing rapidly (<http://www.lter-europe.net/>). Many of the LTER-Europe sites include ICP IM sites so there is a need to discuss means of further cooperation. The Programme Centre will provide some background information on the topic. The research infrastructure project eLTER has received funding from the EU/H2020 programme, and will start during summer 2015.

LTER Europe is connected to the international programme ILTER and it had its annual meeting in Chile on December 1-8, 2014; Annual ILTER meeting, 2014 & All Scientists Meeting of the Americas. New Conference is: [Nature and Urban Wellbeing: Nature-Based Solutions to Societal Challenges](#) from May 18, 2015 12:00 AM to May 20, 2015 12:00 AM — Ghent, Belgium,

ALTER-Net:

ALTER-Net; “*A Long-term Biodiversity, Ecosystem and Awareness Research Network*” (www.alter-net.info) ended the first phase in 2009 but continues in ALTER-Net II thereafter and first hosted by NINA in Norway but now by Finnish Environment Institute, SYKE, Finland. NFPs of ICP IM are involved in the project. This project is also related to the LTER and ILTER; “*International Long-Term Ecological Research*” (<http://www.ilternet.edu/>). ALTER-Net is also related to the preparatory work within ESFRI promoted LifeWatch infrastructure project (<http://www.lifewatch.eu/>). The meeting is expected to discuss the ICP IM vs. ALTER-Net connections.

The above, under ILTER, mentioned Conference later in May relates also to ALTER-Net.

Other future work priorities:

The meeting is expected to discuss inclusion of new tasks in the short-term or more long-term work-plan. Relations to the Long-time strategy should be considered. Presentations of some of these topics are made during the IM workshop on May 6, 2015. NFPs may give short progress reports about national achievements regarding new topics (e.g. multisite experiments, ecosystem services). The meeting is also expected to discuss what the role of the international ICP IM network should be in relation to multi-effects evaluations and global change related topics, and how this work should be coordinated. Participation in the European biodiversity monitoring system should be noted. EPBRS activities should be followed; <http://www.epbrs.org/>. Decisions on further work should be reflected in the work plan 2016-2017 and longer term planning for the WGE.

The activity plans raised by the ICP evaluation group could be discussed.

Discussion/proposals on new tasks:

- (i) New challenges for the Convention work is the relations climate change, biodiversity and land-use. Targets for increased use of biofuel would add effects on ecosystems. Air pollution is one pressure on ecosystems but additional are the impacts from socio-economical drivers. Evolving programmes for increasing pressures need to be addressed. Plans for coming years are expected and could be related to the tentative plans of the ALTER-Net II programme, ExpeER project and LifeWatch.
- (ii) Other matters arising from the workshop May 6. Technical matters and progress in these fields will be discussed.

15. Work plan 2015 and 2016-2017

The meeting is expected to decide on the work plan for 2015 and further on, based on the discussion during the workshop and Task Force meeting. A preliminary suggestion prepared by the Programme Centre is presented below:

Activity	Time-frame	Responsible
ICP IM work plan 2015		
Joint Report 2015 of the ICPs, TF Health and Joint Expert Group on Dynamic Modeling	WGE 2015	UNECE Secretariat, WGE Bureau and ICP IM Programme Centre
Finalisation of 24th Annual Report 2015	June 2015 WGE 2015	Programme Centre NFP contributions
Progress report on dynamic vegetation modelling at ICP IM sites (chapter in AR 2015)	June 2015 WGE 2015	NFPs of Austria and Sweden, in cooperation with Programme Centre
Scientific paper on mass balances for sulphur and nitrogen in catchments	August 2015 WGE 2015	IM Programme Centre, in cooperation with NFPs
Progress report on assessing long-term trends of S and N at ICP IM sites (chapter in AR 2015)	June 2015 WGE 2015	IM Programme Centre, in cooperation with NFPs
Progress report on heavy metal trends at ICP IM sites (chapter in AR 2015)	June 2015 WGE 2015	NFP of Sweden in cooperation with Programme Centre and NFPs
Reporting of activities common to all ICPs, the Task Force on Health and the Joint Expert Group on Dynamic Modelling (see item 6 above)	WGE 2015	Programme Centre and Chairman according to instructions of the UNECE Secretariat
Submission of quality controlled results for year 2014 to Programme Centre	December 1st 2015	National Focal Points
Cooperation with other ICPs, particularly regarding dynamic modelling (all ICPs), cause-effect relationships in terrestrial systems (ICP Forests, ICP Vegetation), and surface waters (ICP Waters). (See items 8 and 9 above)	According to decisions at the TF meeting	According to decisions at the TF meeting
ICP IM draft work plan 2016-2017		
ICP IM Annual Report 2016	Task Force and WGE 2016	Programme Centre in collaboration with NFPs
ICP IM Task Force meeting 2016		
Report and scientific paper on dynamic response of vegetation changes in relation to nitrogen	Report: Task Force and WGE 2016 Scientific paper in 2017	Programme Centre, NFPs of Austria and Sweden in co-operation with other NFPs Potential co-operation

		with ICP M&M and ICP Forests
Report on HM trends and budgets	Task Force and WGE 2017	NFP of Sweden and Programme Centre, in co-operation with other NFPs Potential co-operation with ICP Waters
Report on assessing long-term trends of S and N	Task Force and WGE 2016	Programme Centre in co-operation with NFPs Potential co-operation with ICP Waters
Report on connections between calculated CL exceedances and observed impacts (N,S, HM)	Task Force and WGE 2017	Programme Centre in co-operation with NFPs
Cooperation with external organisations (International Long Term Ecological Research Network, LifeWatch, GEO BON). Progress reports	Task Force 2016	Programme Centre and NFPs
Inter laboratory comparisons under leadership of ICP Waters, ICP Forests and EMEP	Decided later	Voluntary activities of the National Focal Points
Develop concepts for multi pollutant – multi effect relationships (NO_x, O₃, acidity, heavy metals, POPs, etc). Progress reports/contributions to Annual Report	Task Force 2016	Voluntary activities at National Focal Points
Reporting of ICP IM activities to WGE	WGE 2016 and 2017	Programme Centre and Chairman

16. Financing/external applications

Financial support for the international coordination of effects-oriented activities under the CLRTAP is available through voluntary contributions to the Trust Fund. Tentatively a representative of the WGE Bureau will present information about the present situation regarding this funding.

Some key actions of the EU Horizon 2020 framework programme are open for research proposals. Such funding can be used for supporting research activities related to ICP IM, and the participating institutes are encouraged to look into the possibilities for joint applications. Information is available at: <http://cordis.europa.eu/>

Note also the Forest-based Sector Technology Platform (FTP) have a revised “*Vision 2030 and Strategic Research and Innovation Agenda 2020 (SRA)*”.

The NFPs may report on any progress in this field.

17. Next Task Force meeting

18. Other business

19. Conclusion and end.