

# **TFEIP Newsletter**

## **Winter 2011/2**



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## From the Chairs

Welcome to another edition of the TFEIP newsletter – we hope that you had a very enjoyable Christmas and New Year! We're sure that it was a well deserved break during this very busy time for emission inventory compilers.

Looking forward, 2012 promises to be a very interesting and busy year for the emission inventory community. Perhaps our biggest task will be the 3-yearly update of the EMEP/EEA Emissions Inventory Guidebook, and we include in this newsletter an update of the planned process across 2012.

Within the next few months we will also be able to see whether parties to the Gothenburg Protocol have met their emission ceilings for 2010 (and similarly for NECD). It's certain that a lot of people will want to know how the NO<sub>x</sub> emission estimates look overall.

In the spring, CLRTAP parties will be finalising the revisions to the Gothenburg Protocol, and this is expected to include some significant changes. Whether it's the potential addition of pollutants such as PM<sub>2.5</sub> and black carbon, the inclusion of flexibility mechanisms, or relative emission reductions rather than absolute ceilings, it will mean some new challenges for the inventory compilers. But you can be assured that the TFEIP and CEIP will be there to help you with any of these new challenges!

Also in the spring, we will be having our annual TFEIP meeting, the 20<sup>th</sup> meeting since the task force was first established(!), and again jointly held with EEA's EIONET network. This will be in Bern, Switzerland on the 14-15<sup>th</sup> May followed by a workshop on the 16<sup>th</sup>. Our thanks to the Swiss Government for hosting us, and we hope to see lots of you in this very beautiful part of Europe later in the year. We provide some thoughts on the possible programme for the meeting below. If you have a presentation that you would like to give at the meeting, then do let us know.

Finally, POPs reporting has moved back up the agenda under CLRTAP. The Convention's Implementation Committee, which reviews compliance by Parties with their obligations under the Convention, has reported that national submissions under the POPs protocol need to be of better quality. So to support countries with their POPs emission estimates, our workshop in May will be on improving national POPs emission inventories.

So, a busy year ahead! We are always keen to hear from you, so do feel free to contact us if you have any questions, want to contribute or pass on relevant information. There is also the discussion forum on the TFEIP website you can use to get in touch with us. All the best for 2012!

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## 2011 TFEIP Management Meeting

The TFEIP Management team meet each autumn to review our annual work programme, identify actions needed in relation to other EMEP meetings, to plan future TFEIP tasks, and prepare for our own annual meeting etc. The following items capture some of the discussion items from our meeting in October 2011 (a separate article discusses Guidebook developments).

### Reporting of gridded emissions

The EMEP centres (MSC-W, MSC-E and CEIP) will be drafting a paper to discuss and present proposals for possible changes to the future reporting of gridded data. This is being done primarily to ensure that the data can better meet the needs of EMEP and other international air quality modelling communities. Possible developments include moving away from the EMEP grid towards a standard latitude/longitude grid, and reporting data at a higher resolution e.g. 0.1x0.1 degrees. We anticipate the paper will be presented at our May meeting to allow the TFEIP to comment upon the proposals.

The modelling community is also seeking to include higher resolution temporal emissions data into their systems. How the TFEIP can/might best help address this also requires some future discussion.

### Combustion and Industry Expert Panel

Jeroen Kuenen co-chair of the panel highlighted some inconsistencies in the methodologies used across countries on the basis of reported data. This results in highly varied reported data of e.g. PCBs, and to a lesser extent, dioxins. The lack of HCH reporting was also highlighted: only four Parties are currently reporting these emissions, even though emission factors are available in the Guidebook. It was agreed that this sort of simple data analysis would be a powerful tool for the TFEIP meetings to assist with improving reporting.

### Projections Expert Panel

The Projections Expert Panel (PEP) have assisted with the preparation of the TFEIP's flexibility mechanisms report (see later article), updated the panel's website and identified improvements that could be made to the Projections chapter in the Guidebook.

It was identified that the links with TFIAM might be further increased, in order to produce more guidance on air pollutant emissions from emerging technologies e.g. Carbon Capture and Storage (CCS). It was also suggested that a stronger link should be made with the GHG projections community concerning shared guidance, development of recommended QA/QC methods etc.

### Agriculture and Nature Expert Panel

New research into NMVOC emissions from the USA should be available before the next TFEIP meeting. The time required to review this work, and possible integrate these results into the Guidebook will be dependent on the choice of publication.

Nick Hutchings explained that allocation of emissions associated with biogas reactors is somewhat complex. A proposal that activity of the crop growth for biogas generators should be allocated to the agricultural sector and that digestate storage might be reported in both agriculture and power generation, depending upon its different uses, was discussed and agreed. Guidance on this will need introducing into the Guidebook.

The EP co-chairs are developing emission factors for PAHs based on Jenkinson's 19 PAH emission factors for Tier 1 [and Tier 2], which will be completed before the next annual TFEIP meeting.

It was also noted that some, but not all, countries are reporting NO<sub>x</sub> emissions from Agricultural Soil and that this can be a significant emission source (e.g. DE 10% of total NO<sub>x</sub> emissions). Nick Hutchings said that NO is the only NO<sub>x</sub> pollutant from Agricultural Soils and not much is known about this source. The Guidebook currently states that it is the same order of magnitude as N<sub>2</sub>O.

### Transport Expert Panel

The EP co-chair highlighted that on-going research programmes will lead to updated Euro V/VI emission factors by summer 2012. The ERMES (European Research Group on Mobile Emission Sources) network coordinated by JRC is helping harmonise initiatives in this area.

**Heavy Metals:** There are different studies looking into the emission factors for heavy metals from the road transport sector, which can differ by up to three orders of magnitude, so there has been a delay in producing a consistent set of emission factors. Emissions from lube oil appear much more prominent than fuel use so it is important to analyse lube oil use and emission factors. The Guidebook will be revised to reflect the updated understanding of metal emission factors.

The members were informed that Eurocontrol will be providing in the future an online data portal containing their aviation data (activity plus modelled emissions), which can be seen as a valuable addition to national datasets. EEA can forward this to anyone who is interested, and this aviation data will probably be presented at TFEIP2012.

There is also on-going work into LPG and alternative fuels, which potentially shows that the conversion to LPG is not environmentally friendly.

There are currently no emission factors for PCB in the Guidebook but there has been recent information from the US about these emission factors. Parties have been using previous PCB emission factors which are not accurate. The Guidebook will be updated accordingly.

### Local/City Scale Emission Inventories

The members discussed whether the TFEIP might support work undertaken at the local/city level, as well as national. It was recognised that this is an important area that currently is not well linked although some initiatives, such as the FAIRMODE network and certain FP7 research projects, do attempt to address the need for guidance in this area. Given the present lack of resources within the task force to address new work areas, a decision was taken that for the present the task force should take a passive, rather than active, approach to this. It was suggested that a separate TF for this type of support might be created in the future to ensure these compilers have the relevant support.

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## Personal Profile: Nick Hutchings

### Co-chair of the Agriculture and Nature Expert Panel

Senior Researcher, Department of Agroecology, Aarhus University, Denmark

*In this new feature, we will be introducing you to different members of the TFEIP Management team. We start with Nick Hutchings, one of the leaders of the Agriculture and Nature expert panel.*

I became a co-chair by accident. Sometime in 2003, one of my colleagues in another department of the then Danish Institute of Agriculture of Sciences (Hans Benny Rom) was co-chair but became ill. Since ammonia emissions were already a major focus of the Panel and I had more than 10 years experience in the area, I was asked to attend a meeting in his absence. I recall that the meeting was a blur of unfamiliar (SNAP) codes and acronyms (what are NMVOCs??). When it



became clear that Hans Benny would not be able to continue as co-chair, I was asked to take over the post. Luckily, I had Ulrich Dämmgen as my senior co-chair and was able to rely on his assistance and encyclopaedic knowledge. He also explained to me that given the diverse nature of agriculture and the range of pollutants included in the LRTAP Convention, it is impossible to be an expert in all areas (the key ability for a co-chair is to know who are the experts on individual pollutants/sources and how to persuade them to give you free advice). When Ulrich retired, I gained Barbara Amon as a co-chair. I think our differing professional backgrounds and personalities complement one another and that we make a good team.

Until 2007, the Panel held two meetings a year. One meeting was held as now, as part of the annual TFEIP meeting. The main objective of this meeting was, and is, to allow inventory compilers to identify problem areas or to request clarification concerning methodologies or emission factors. Many inventory compilers find agriculture a difficult area. The sources are diffuse, diverse and difficult to define in a standard format, and the activity data are often of a poor quality. The second meeting was held jointly with the then Expert Group on Ammonia Abatement. Its objective was to give the Panel access to the latest results from research on agricultural ammonia emissions. This Group was incorporated into the newly formed Task Force on Reactive Nitrogen (TFRN) in 2008. The Panel has established links with the TFRN, but the wider focus and more frequent meetings present challenges.

Funding activities related to TFEIP was and still is a problem for both Barbara and myself. In the early days, my then Head of Department refused to fund my participation, so my expenses were paid from the Department's education and training budget. These days, my University funds about one month of my time for working on matters related to the Convention i.e. TFEIP and TFRN. This covers the cost of my participation in 1-2 meetings per year in each of the Task Forces, so if I am sometimes a little slow in responding to e-mail questions related to the Guidebook, it is because I do this in my free time.

The majority of my time is spent on agricultural research projects. The main focus of my work is the computer modelling of production and environmental pollution from farming systems, particularly related to nitrogen (e.g. ammonia emissions and nitrogen leaching) and global warming potential (e.g. methane and nitrous oxide emissions, carbon sequestration in soil). It is in this context that I am currently spending 6 months in New Zealand, working with scientists from Agresearch NZ on modelling the mitigation of greenhouse gas emissions from ruminant livestock farming.

In my free time, I enjoy reading, walking, cycling and sailing. I am the proud owner of a mountain bike (Denmark may not have any mountains but has many forest tracks) and I have a 5 metre sailing dinghy that is perfect for the shallow waters of the Danish fjords.

## EMEP/EEA Guidebook news

### 2012 Guidebook update

The European Commission DG Environment have recently let a contract to support the updates of a number of the chapters in the Guidebook. This work is supporting the Commission's on-going review of EU Air legislation. A team including many members of the Danish national inventory team will be performing the work. In addition, the EEA is also allocating funding to support the 3-yearly major update of the Guidebook.

The current timetable is as follows:

|                              |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| <b>TFEIP2012 (May 2012):</b> | Proposals and options presented to the TFEIP for the chapters to be updated. |
| <b>May – Sept:</b>           | Relevant Chapters are updated                                                |
| <b>Sep-Oct:</b>              | Revised Chapters circulated for comment and review by TFEIP                  |

|                  |                                         |
|------------------|-----------------------------------------|
| <b>Nov:</b>      | Delivery of revised chapters            |
| <b>Time tbd:</b> | Formal endorsement of chapters by TFEIP |

We will be working closely with the teams undertaking the work to ensure efficient incorporation of their work into the Guidebook.

**If you are interested in helping contribute to the Guidebook update process then we would love to hear from you!** This could for example, just be a contribution of a few days time to help review the content of a specific chapter, or something more substantial. Please contact any of the co-chairs if you think you may be able to participate.

### Internal inconsistencies

It is noted that there are some internal inconsistency issues in the current Guidebook (e.g. a recent post on the TFEIP's discussion forum has alerted us to another such example). For example, under all cases the following should hold:  $TSP_{EF} > PM_{10\ EF} > PM_{2.5\ EF}$  and  $PM_{10\ EF} > \text{Heavy Metals}_{EFs}$ . A specific task of the Guidebook update is to check such instances and correct these as far as possible.

### Tier 3 methodologies

The TFEIP Management team discussed challenges associated with detailed Tier 3 methodologies, and in particular whether it is possible to review these to a satisfactorily high level of transparency. Leon Ntziachristos reported that a recent IPCC meeting gave no clear consensus on this. The members agreed that, as previously decided at previous TFEIP meetings, Tier 3 methodology should in general not be included in the Guidebook because of the maintenance required and the likelihood of country-specific requirements.

### Emission factors for earlier years

The TFEIP Management team discussed and agreed that the 'live' version of the Guidebook should only hold the most current technologies and EFs. Older, redundant technologies and their associated emission factors in general are not included in the Guidebook. Instead, users can access the archived versions of earlier Guidebook editions if information on old technologies is required.

SYKE (Finland) will investigate whether it might be possible to add EFs from previous versions of the Guidebook to their [online catalogue of emission factors](#). A lot of progress has been made in entering EFs from national IIRs – contact the AP EF Library maintenance team through the link on the website in case you are adding/updating EFs in your IIR so that these new EFs can be uploaded into the database.

### A new chapter on temporal resolution?

The possibility of adding a new chapter on temporal resolution of emissions was discussed by the TFEIP Management



team. Although this would be a chapter mainly aimed to assist the work of air quality modellers, where it is important to know at which times of the year emissions from which sources are highest, it was agreed that the Guidebook would still be a good place for such guidance.

Parties already producing higher resolution temporal data could be invited to present their methodologies at the TFEIP2012 meeting.

### Natural vegetation

The TFEIP Management team discussed the relevance of natural vegetation sources (NFR 11, reported as a memo item). At present, these sources are generally not well reported by countries as they are not included in emission ceilings. We concluded that air quality modellers will in general use their own algorithms, rather than a methodology in the Guidebook. So minimal resources will be used to maintain this section of the Guidebook.

### Russian version of the Guidebook Руководство ЕМЕП/ЕАОС по инвентаризации выбросов 2009

This is nearing completion. The final chapters should be delivered by the end of January 2012 and the Russian version of the Guidebook will be published alongside the English-language version on EEA's website.

## Inventory changes after a revised Gothenburg Protocol?

The LRTAP Convention's Executive Body is having a special meeting in early May with the aim of finalising the negotiations on a revised Gothenburg Protocol. Many of you will have been involved over the past year(s!) in providing advice to your national administrations, or by participating directly in the negotiations. But for those not following this process closely, it certainly looks as though like there will be some new things for inventory compilers to deal with. Both the current Reporting Guidelines and the Reporting Templates will most likely need updating as a result of the decisions that will be taken over the coming months.

### PM<sub>2.5</sub> and black carbon (BC)

It looks likely that an emissions ceiling for PM<sub>2.5</sub> will be added to 2020 ceilings for the four current pollutants (NO<sub>x</sub>, NMVOCs, SO<sub>x</sub> and NH<sub>3</sub>). This will bring challenges for some emission inventory compilers who don't have very good PM<sub>2.5</sub> emission estimates. In addition, some type of reporting commitment for emissions of BC seems likely. Work has already been planned for improving the information on PM<sub>2.5</sub> in the Guidebook, as well as for introducing information on black carbon..

### Absolute or Relative (%) Ceilings?

There has been a lot of discussion on the choice of absolute or relative ceilings. It presently looks like there is more support for relative ceilings, but the final decision is still to be made.

### Flexibility and Correction Mechanisms

In August 2011, a number of TFEIP members contributed to the production of a TFEIP paper which considered different flexibility and correction mechanisms. You can find the paper on [our website](#).

Whilst final decisions are yet to be made, it would appear that some mechanism for handling "new sources" and "significant changes in EFs" is likely to be included. There may also be options for averaging national totals across a three year period to address the impacts from unusual events.

Whatever is decided by the Parties at the special meeting in May, the TFEIP will try to provide the support and guidance needed to ensure that reporting data to the LRTAP Convention isn't more burdensome for inventory compilers than it needs to be!

## TFEIP meeting 2012

TFEIP2012 will be in Bern, Switzerland on Monday 14<sup>th</sup> May – Tuesday 15<sup>th</sup> May, and followed with a technical workshop on Wednesday 16<sup>th</sup> May. As in previous years, the TFEIP meeting will be held jointly with EEA's EIONET network. The meetings are very kindly being hosted by the Swiss Federal Office for the Environment (FOEN). Planning for the meeting is already well underway.



Source: Bern.com

## 20<sup>th</sup> Anniversary!!!

The 2012 meeting will be the 20<sup>th</sup> Anniversary of the first meeting of the original Task Force on Emissions that was held in London in 1992. We are planning a small celebration of the achievements across the years!

### Theme for the main meeting: Verification

There is usually the opportunity to include a themed session on the second day of the meeting. This year we intend to have several presentations on verification. We are therefore interested in hearing from anyone who wishes to give a presentation on this topic. Examples might include:

- the use of inverse modelling or satellites to verify inventory data;
- how Parties are using the information from the Review process;
- comparison of national and regional models such as GAINS and EDGAR;
- contributions from the air quality community - gaps between measurements and inventories; etc

### Theme for the workshop: POPs

The Implementation Committee of the Convention recently highlighted that the POPs inventories are not of very good quality, and are very variable across Parties.

We intend to hold a workshop on making POPs emission estimates. However, we are keen to include practical activities which deliver genuine improvements to national inventories at the workshop. So bring your datasets, and spend some time with people who can help improve your POPs estimates!

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## A reporting reminder

A reminder from CEIP (the EMEP Centre for Emission Inventories and Projections), that the deadline for [reporting of emission data](#) is fast approaching. Historic emissions, activity data and projections) should be submitted by **15 February 2012**. The deadline for gridded and LPS data is **1 March 2012**. Informative Inventory Reports (IIRs) should reach the centre no later than **15 March 2012**.

## Results from the 2011 Stage 3 review

All 10 country reports from the 2011 Stage 3 review have been completed and posted to the [CEIP website](#):

The countries reviewed were Belarus, Croatia, Czech Republic, Estonia, Greece, Iceland, Luxembourg, FYR of Macedonia, Slovenia and Ukraine.

If you look through these reports, it should be a big help in planning you own inventory improvements. Or, to use an old proverb:

*An inventory compiler learns from their own mistakes. But a wise inventory compiler learns from other peoples' mistakes!*



EMEP CEIP and EEA would especially like to thank again everyone who made the 2011 reviews a success:

Kevin Hausmann (DE) and Kristina Saarinen (FI) (lead reviewers); Anne Wagner (EU), Emilia Hanley (IE), Giorgios Melios (EU), Intars Cakaras (LV), Ioannis Sempos (GR), Jim Webb (UK), Julien Vincent (FR), Kees Peek (NL), Nina Holmengen (NO), Michael Kotzulla (DE), Nadine Allemand (FR), Romain Joya (FR), Sebastian Plickert (DE), Sophie Hoehn (CH), Valentina Idrissova (KZ) John van Aardenne (EU); and trainees Andrijana Veljanoska (MK), Magdalena Trajkovska Trpevska (MK) and Nebojsa Redzic (RS).

The next stage 3 review is planned for 25-29 June 2012. Details are [available here](#).

## Meetings and announcements

### TFEIP discussion forum

A reminder that we encourage signing up to the TFEIP's online discussion forum at <http://www.tfeip-secretariat.org/forums/>. You can receive automatic notification of any new posts via the RSS feed – which e.g. can be managed with email programmes such as Microsoft Outlook so any new postings are delivered to you in an Outlook folder. Feel free to post any questions (and answers!) on emission inventories, projections etc.

Notifications of any corrections made to EMEP/EEA Guidebook chapters are also posted on the forum. The more active users the forum has, the more it is likely to become a more useful tool in the future!

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### Meeting report: West Balkans capacity building workshop, 24-25 Nov 2011, Bar, Montenegro.

Using EU Instrument for Pre-Accession (IPA) funding, the EEA recently funded its Topic Centre on Air Pollution and Climate Mitigation (ETC/ACM) to hold an emissions training workshop for West Balkan (WB) inventory experts. Beneficiaries of this project are Albania, Bosnia and Herzegovina, Croatia, the former Yugoslav Republic of Macedonia, Kosovo under UNSCR 1244/99, Montenegro, and Serbia.

The workshop was opened by Katarina Mareckova (ETC/ACM, Umweltbundesamt, Austria) and Vesna Novakovic representing host country Montenegro. Issues covered at the workshop included:

- status of reporting in WB countries,
- point sources and gridded data,
- transparency: documentation and archiving,
- review of inventories under CLRTAP/NECD and
- calculation of emissions from agriculture sector.

In each section UBA experts delivered basic presentations and WB countries presented relevant topics- status in their countries. Cristina Leonardi (Techne consulting<sup>[1]</sup>) talked about current activities of Italy in WB countries. The situation in reporting of emission inventories by the WB countries varies significantly. Some countries such as Croatia and FYR of Macedonia have very good inventories; Montenegro and Albania also benefit from support provided by Italy and have successfully submitted complete 2009 inventories in 2011. Other countries such as Serbia and Kosovo under UNSCR 1244/99 are making progress in reporting more complete datasets.

The special session on calculating agricultural emission was evaluated as very useful and WB countries would welcome further sector specific trainings i.e. on agriculture, solvent use and waste sectors.

Information provided by countries on next steps was welcomed; many of the WB countries plan to report more complete datasets over the coming years and to submit/improve inventory reports. The countries also expressed their needs for technical support in the future, which will help identify future activities to further support inventory reporting across the WB region.

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### EEA is recruiting!

EEA presently has an open vacancy for a "Project Officer – Climate change and air pollution mitigation monitoring, reporting and verification".

For details of the position, including eligibility requirements, please look on the [EEA's website](#).

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<sup>[1]</sup> Techne Consulting s.r.l. is providing technical support to Montenegro and Albania for activities related to air quality assessment and management

## COPERT model news and forthcoming workshop

An updated version (v 9.0) of the free COPERT road transport was released in November. The software and a report describing the improvements made to the model are available from the [Emisia website](#).



A two-day workshop and training course on COPERT software will be held on 19-20 March 2012 in Belgrade, Serbia, and is jointly organised by the JRC / Institute for Energy and Transport, and Emisia. The workshop is primarily aimed at users and interested potential users of the COPERT software from the EU Candidate and Potential Candidate Countries, as well as countries participating to the European Neighbourhood Policy and Russia. A Russian version of the COPERT software, user's manual, help file and the relevant COPERT webpage will be available prior to the event.

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### Meeting report: ERMES network

The 2nd Plenary Meeting of ERMES (European Research group on Mobile Emission Sources) was attended by over thirty participants from the labs, national authorities, EEA, the industry and relevant European Commission DGs. All stakeholders were invited to present their recent developments related to fuel consumption and emissions from road transport.

The work programme for 2012 and beyond was discussed in detail and decisions on priorities for further development of COPERT and HBEFA were adopted. The improvement of emission factors for new-technology vehicles (EURO 5/V and 6/VI), as well as the development of a common set of tools for harmonized test data post-processing and reporting within ERMES are expected to be

hot fields of activity for the new year. The exchange of test data among ERMES members will require the signature of a collaboration agreement by all ERMES participants in the near future. This will set a solid basis for research collaboration under the coordination of the European Commission Joint Research Centre.

A detailed account of the discussions can be found in the minutes of the meeting which along with all presentations will be available in the website of the [ERMES CIRCA interest group](#). For further information please contact [vicente.franco@jrc.ec.europa.eu](mailto:vicente.franco@jrc.ec.europa.eu).

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### Meeting report: Workshop on GMES services and emission inventories. 10-11 Oct 2011, Copenhagen.

The workshop on GMES and Emission Inventories, coordinated by EEA, attracted around 45 participants and brought together the emission inventory, satellite observation, in-situ observation and atmospheric modelling communities. The workshop's aim was to both showcase existing collaboration and activities as well as to highlight options where in the near future inventories could support GMES services and where GMES services and other observational datasets could improve emission inventory information for science and policy. The conclusions and discussions from the workshop are summarised in a new report available from the [website of the ETC/ACM](#). The report presents insights into data and data flows to improve understanding, assessment and decision making on atmospheric emissions (air pollutants and GHGs) and lists some requirements on how the linkages between datasets and emission and modelling communities might be improved. An important feedback from the participants was the usefulness of exchanging methodological views, insight in applied data sources, and especially to put GMES in perspective of European and national scientific and regulatory activities when it comes to emissions of air pollutant and greenhouse gases, also in relation to climate and air quality legislation.

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## Participate in the annual EMEP/EEA review process as an expert reviewer!

Past feedback has shown that participating in the annual review process is a great way to learn and share experiences, and for emission inventory compilers to take back new information to use in their own inventories.

If you want to register as an expert reviewer, then it's very simple - there is a [form to complete](#) on the CEIP website. This should be filled in and forwarded by your national CLRTAP representative to the [UNECE secretariat](#) and [CEIP](#). For any questions or further information on becoming a reviewer, please contact [CEIP](#).

## High resolution emission maps for Europe published

As presented in recent TFEIP meetings, a project performed by Stuttgart University and supported by the European Commission, EEA and JRC has produced maps for various combinations of diffuse emission sources (including road transport, non-industrial combustion, agriculture shipping and aviation) and pollutants (NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, CO, CO<sub>2</sub> etc).



The 5 x 5 km maps from the project are now publicly available. They can be viewed for viewing on the [E-PRTR website](#), with the data available for free download from the [EEA website](#). In addition, a dataset of the maps at 1 x 1 km resolution is also available on request for research use, modelling etc. Contact [Bob Boyce](#) at EEA to obtain a copy of this dataset.

## Forthcoming meetings

**25<sup>th</sup> meeting of the TFEIP and 13<sup>th</sup> joint meeting with the EIONET network. 14-15 May. POPs workshop 16<sup>th</sup> May.** Bern, Switzerland. *Further meeting details will be posted on the [TFEIP website](#) in due course.*

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**Task Force on Hemispheric Transport of Air Pollution, 01 - 03 February 2012,** Pasadena, CA, USA.

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**8th International Conference on Air Quality - Science and Application, 19-23 March,** Athens. [Conference website](#)

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**Task Force on Integrated Assessment Modelling, 07 - 09 May 2012.**

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**2012 ACCENT-IGAC-GEIA Conference,** 'Emissions to Address Science and Policy Needs', June 11-13, Toulouse, France.

[Conference website](#)

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**U.S. EPA's International Emissions Inventory Conference,** 'Emission Inventories - Meeting the Challenges Posed by Emerging Global, National, Regional and Local Air Quality Issues', 13-16 August, Tampa, Florida. [Conference website](#)

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**36th session of the EMEP Steering Body,** 17 - 19 September 2012, Geneva, Switzerland. [meeting documents from the September 2011 session can be found [here](#)]

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*If you would like to publicise details of your forthcoming relevant meetings or workshops in the next TFEIP newsletter, you are welcome to email the Chairs with information.*

*Legal notice.*

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