

Expert meeting

MATCH - Ad hoc group for the modelling and assessment of contributions to climate change

Date: 23 to 25 September 2007 in Cologne, Germany

Venue: Park Inn Hotel
Köln City West

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To: Participants of expert meetings on of the ad-hoc group on modelling and assessment of contributions to climate change (MATCH)

Cc:

IPCC Chair:	Rajendra K. Pachauri
IPCC Vice chairs:	Richard Odingo, Mohan Munasinghe, Yuri A.Izrael
IPCC WGI Co-chairs:	Dahe Qin, Susan Solomon
IPCC WGII Co-chairs:	Osvaldo Canziani, Martin Parry
IPCC WGIII Co-chairs:	Ogunlade Davidson, Bert Metz
IPCC Secretariat:	Renate Christ
WCRP:	Ann Henderson-Sellers, Director
IGBP:	Kevin Noone, Executive Director
IHDP:	Andreas Rechkemmer, Executive Director
UNFCCC:	Halldor Thorgeirsson, Deputy Executive Secretary

Dear colleagues,

The “Ad-hoc group for the modelling and assessment of contributions to climate change (MATCH)” is scheduled to meet from 23 to 25 September 2007 in Cologne, Germany. Given your expertise on the subject and/or your participation in earlier expert meetings, Ecofys acting as the support unit to MATCH, is inviting you to attend this expert meeting.

The MATCH meeting in May/June will provide the opportunity to go ahead and take the steps necessary for the publication of the third and fourth paper as well as the overall MATCH report. Draft versions of the papers or presentations will be circulated to the participants in advance of the meeting. The major purpose of the meeting is to advance the work to be ready for the MATCH report to the SBSTA due 31 October 2007.

Below are short descriptions of the above-mentioned papers that are currently being written:

- Paper # 3: Countries' contributions to climate change are calculated in a coordinated modelling exercise for a fixed set of parameters. The new element compared to earlier papers is that it is done on a country level (not regional level) and that it includes the uncertainty of the emission estimates as an input variable. The set of results are shown and interpreted.
- Paper # 4: The purpose of this paper is compare all available estimates of historical and current emissions from land use, land use change and forestry (LULUCF),

understand causes of differences and derive an uncertainty range per country or region.

We would be grateful, if you could confirm your ability to attend this meeting by returning the attached attendance form to Christian Ellermann by e-mail (C.Ellermann@ecofys.de) or by fax (+49 221 510 907 99) no later than 10 September 2007. Please also indicate if a personalized invitation is necessary for the application for a visa.

The meeting will be held at the Park Inn Hotel. Ecofys has blocked hotel rooms in that hotel. We recommend you reserve your own room at our favourable rate. Please see the extra file for hotel contact and location information.

Developing country experts are particularly welcome at this meeting. Funding for travel may be available, but is limited to experts from developing countries, who are active in the field of climate modelling, can contribute substantively to the discussion and are committed to working on MATCH projects, particularly the preparation of scientific papers. Experts from developing countries are invited to send a request for funding travel costs documenting their qualifications also to Christian Ellermann by e-mail (C.Ellermann@ecofys.de) as soon as possible. Applicants will receive a response from Ecofys acting as the support unit administering the trust fund on the decision made by the scientific coordination committee on an individual request.

Up to date information on the meeting, including an agenda, will be posted on the MATCH web site www.match-info.net as soon as it is available.

Yours sincerely,

Niklas Höhne
MATCH Support Unit, Ecofys Germany

Enclosures:

- Registration form
- Logistical information

Background:

As part of the negotiations on the Kyoto Protocol, the delegation of Brazil made a proposal, in May 1997, to set differentiated emissions reduction targets for Parties according to the impact of their historic emissions on temperature rise (FCCC/AGBM/1997/MISC.1/Add.3).

The scientific and methodological aspects of the proposal have been transferred to the SBSTA. Two expert meetings on the subject have been organised by the UNFCCC in the past:

- The first expert meeting reviewed the scientific and methodological aspects of the proposal by Brazil. The meeting took place from 28 to 30 May 2001 in Bonn, Germany. Conclusions of that meeting can be found in document FCCC/SBSTA/2001/INF.2
- The second expert meeting was organized to assess the preliminary results provided by the participating research institutions, as requested by the UNFCCC secretariat, to provide new and comparable results on the issue of contributions to climate change. The meeting took place from 25 to 27 September 2002 in Bracknell, UK. Conclusions of that meeting can be found in document FCCC/SBSTA/2002/INF.14

During SBSTA 17 (New Delhi, October/November 2002), the SBSTA agreed that the scientific community should continue work on the scientific and methodological aspects of the proposal by Brazil and that such work should be of a standard consistent with the practices of peer-reviewed published science. It invited the scientific community, including scientific and assessment programmes, such as the International Geosphere-Biosphere Programme, the World Climate Research Programme, the International Human Dimensions Programme on Global Environmental Change and the Intergovernmental Panel on Climate Change to provide information to Parties, and each other, on their interests in the work. The original text of the conclusions on the item "Scientific and methodological aspects of the proposal by Brazil" as adopted by the SBSTA is included in document FCCC/SBSTA/2002/L.24 available at <http://www.unfccc.int>.

As this activity now could not further be supported by the UNFCCC secretariat, the governments of Brazil and the United Kingdom of Great Britain and Northern Ireland supported a third expert meeting on the Brazilian proposal in 2003. The Government of Germany offered to host the meeting. The third expert meeting was held from 8 to 9 September 2003 in Berlin, Germany. The meeting resulted in terms of reference for the group and a draft work plan for a process until 2005. The now called "Ad-hoc group for the modelling and assessment of contributions to climate change (MATCH)" will focus discussions on the modelling and assessment of the contributions of sources of emissions to climate change, to improve the robustness of the preliminary results and to explore the uncertainty and sensitivity of the results to different assumptions. A new website was developed (www.match-info.net) to allow participants to exchange recent information and new scientific publications via a web interface. A scientific coordination committee was formed to assist with the scientific tasks to be undertaken within the framework of this voluntary activity.

Following the third expert meeting, the UK government is continuing to support a "support unit" at Ecofys Germany to ensure that further scientific expert meetings will be organized and held, information is disseminated and progress is made in this voluntary scientific activity. Continued support is available until May 2006, where the final results of MATCH will be reported to SBSTA.

Four further expert meetings have been organized Germany May 2004, Brazil April 2005, United Kingdom October 2005 and Louvain La Neuve, Belgium March 2006. The first joint scientific paper "Analysing countries' contribution to climate change: scientific and policy-

related choices” has been published at *Environmental Science and Policy* late 2005. A second paper on “Attributing a fraction of climate change to a nation’s historical emissions: closure and scientific uncertainty” will shortly be ready for submission to a journal.

In May 2006, the SBSTA considered the issue and encouraged research institutions and scientists to undertake further work and to provide written reports about the results by 30 October 2007. The full text of the conclusions is attached below.

In November 2006, the MATCH group met in Cologne to plan the future work.

In May 2007, the MATCH group met in Oslo to advance the work on papers #3 and #4.

Text of the conclusions of the SBSTA as contained in document FCCC/SBSTA/2006/L.13

Scientific and methodological aspects of the proposal by Brazil

Draft conclusions proposed by the Chair

1. The Subsidiary Body for Scientific and Technological Advice (SBSTA) took note of the submission contained in document FCCC/SBSTA/2006/MISC.8.
2. The SBSTA expressed its appreciation to the scientific community for its work to build on the scientific and methodological aspects of the proposal by Brazil. It also expressed its appreciation to those governments providing support for this work. The SBSTA noted that the participation of experts from both developed and developing countries in this effort has fostered some capacity-building. The SBSTA noted that this process remains open to strengthen participation from scientists from developing countries.
3. The SBSTA noted that further work would be required, for example, to further quantify and reduce uncertainties, to address gaps in knowledge, and to further improve the methodology, for instance by considering finer resolution of sources and longer timescales.
4. The SBSTA encouraged all Parties, research institutions and scientists interested in this issue to undertake further work and to continue to exchange information and experience on the scientific and methodological aspects of the proposal by Brazil.
5. The SBSTA noted that it expects the scientific work to be completed by the third quarter of 2007 for the consideration by Parties. The SBSTA invited all Parties, research institutions and scientists engaged in this work to forward to the secretariat, through interested Parties, by 30 October 2007, written reports about the results of their work on the scientific and methodological aspects of the proposal by Brazil.
6. The SBSTA requested the secretariat to organize an in-session special side event at SBSTA 27 (December 2007) at which all Parties, research institutions and scientists engaged in this work could present their results. The SBSTA invited Parties to submit to the secretariat, by 7 March 2008, their views on these and earlier results. It requested the secretariat to compile these submissions into a miscellaneous document.
7. The SBSTA agreed to complete the consideration of this agenda item once the scientific work is sufficiently completed, and indicated that it would like to be able to do this finally at SBSTA 28 (June 2008) or soon after.