

TABLE 1. PLANNED ACTIVITIES CONCERNING ACIDIFICATION AND EUTROPHICATION

YEAR	EMEP SB		WGE		REMARKS
	DELIVERABLES	INPUTS FROM WGE	DELIVERABLES	INPUTS FROM EMEP	
2004	<ul style="list-style-type: none"> <li>- Approved Eulerian modelling results</li> <li>- <i>Ecosystem specific depositions</i></li> <li>- <del>Link to hemispheric scale</del></li> <li>- <del>Uncertainty assessment of IAM</del></li> <li>- <del>IAM as basis for negotiations</del></li> <li>- EMEP Assessment report</li> <li>- European total base cation deposition maps: ad hoc (obs. wet+mod. dry, in March) and <del>first</del> <i>initial modelled results and valid for the 1990s (in December)</i></li> <li>- <i>Source-receptor calculations for 2010</i></li> </ul>	<ul style="list-style-type: none"> <li>- Approved IAM input data: CL maps, dynamic modelling results</li> <li>- Harmonised land cover data from CCE (horizontal merge)</li> </ul>	<ul style="list-style-type: none"> <li>- WGE Substantive report</li> <li>- Approved CL maps and dynamic modelling results (subset of CL sites, rest background data)</li> </ul>	<ul style="list-style-type: none"> <li>- Historic N emissions available from MSC-W (MAP)</li> <li>- European total base cation deposition maps: ad hoc and final (MAP, W<sup>2</sup>, F<sup>1</sup>, IM)</li> <li>- Historic base cation deposition would benefit dynamic modelling studies (MAP, JEG)</li> <li>- Ecosystem-specific deposition maps (50x50) for selected years using harmonised land cover data and classification (MAP, W<sup>2</sup>, F<sup>1</sup>, IM)</li> </ul>	<p><sup>1</sup> For comparison with data measured by ICP Forests and to calculate relationships between deposition, further environmental parameters and effects on forest condition.</p> <p><sup>2</sup> Use for mostly measured (empirical) data from CCC. The modelled values are of value for all modelling work (ecosystem specific acid and base cations deposition)</p>
2005	<ul style="list-style-type: none"> <li>- <i>Updated Eulerian modelling results</i></li> <li>- <i>Ecosystem specific depositions</i></li> <li>- <i>Source receptor calculations for 2003</i></li> <li>- <i>Validation of European total base cation deposition maps in co-operation with WGE</i></li> <li>- <i>Hemispheric scale modelling results</i></li> </ul>	<ul style="list-style-type: none"> <li>- Updated CL and dynamic acidification modelling results</li> <li>- <i>Validation of European total base cation deposition maps in co-operation with EMEP</i></li> </ul>		<ul style="list-style-type: none"> <li>- Modelled meteorological and pollution (air concentration: SO<sub>2</sub>, NO<sub>2</sub>, PM; precipitation: pH) data for several years (e.g. 1980, 1990, 2000) for mapping, incl. modelled local scale; if financing allows (MAT)</li> </ul>	
2006					

Requesting body in parenthesis. Text in strikethrough or in italics denote post-meeting suggestions for deletions or additions, respectively, by the EMEP Bureau. Acronyms: (W): ICP Waters; (F): ICP Forests; (MAT): ICP Materials; (V): ICP Vegetation; (MAP): ICP Modelling and Mapping; (IM): ICP Integrated Monitoring; (H): Task Force on the Health Aspects of Air Pollution; (CCE): Coordination Center for Effects; (JEG): Joint Expert Group on Dynamic Modelling; (MSC-E): EMEP Meteorological Synthesizing Centre East; (MSC-W): EMEP Meteorological Synthesizing Centre West; CL: critical load; IAM: integrated assessment modelling.

TABLE 2. PLANNED ACTIVITIES CONCERNING OZONE (SEE ALSO TABLE 1)

YEAR	EMEP SB		WGE		REMARKS
	DELIVERABLES	INPUTS FROM WGE	DELIVERABLES	INPUTS FROM EMEP	
2004	<ul style="list-style-type: none"> <li>- Approved Eulerian modelling results <i>in forests and crops</i></li> <li>- <del>Link to hemispheric scale</del></li> <li>- <del>Uncertainty assessment of IAM</del></li> <li>- <del>IAM modelling as basis for negotiations</del></li> <li>- <del>Supersite monitoring</del></li> </ul>	<ul style="list-style-type: none"> <li>- Approved IAM input data</li> <li>- Uncertainty estimates for IAM data, in coop w/EMEP</li> <li>- Harmonised land cover data from CCE (horizontal merge)</li> </ul>	<ul style="list-style-type: none"> <li>- Geographic assessment of forest injury case studies available</li> <li>- Approved methodology for IAM</li> <li>- Concentration-health response functions available</li> </ul>	<ul style="list-style-type: none"> <li>- Population relevant modelled concentration data (H)</li> <li>- Maps for exceedance of revised critical levels of ozone (V)<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li><sup>1</sup> To identify areas where new critical levels of ozone are exceeded and therefore vegetation is at risk from ozone damage</li> </ul>
2005	<ul style="list-style-type: none"> <li>- <i>Eulerian modelling results</i></li> <li>- <del>Further Assessment of links to hemispheric scale</del></li> <li>- <del>Further supersite monitoring</del></li> </ul>		<ul style="list-style-type: none"> <li>Comparison of concentration and flux-based approaches</li> </ul>		
2006			<ul style="list-style-type: none"> <li>Risk assessment for (semi-) natural vegetation</li> <li>- Further improvement in flux modelling for forest trees</li> </ul>		

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TABLE 3. PLANNED ACTIVITIES CONCERNING PARTICULATE MATTER (SEE ALSO TABLE 1)

YEAR	EMEP SB		WGE		REMARKS
	DELIVERABLES	INPUTS FROM WGE	DELIVERABLES	INPUTS FROM EMEP	
2004	<ul style="list-style-type: none"> <li>- <i>Eulerian model results on PM mass and chemical composition distribution and chemical composition modelled</i></li> <li>- <del>Approved Eulerian model</del></li> <li>- <del>Link to hemispheric scale</del></li> <li>- <del>Uncertainty assessment of IAM</del></li> <li>- <del>IAM modelling as basis for negotiations</del></li> </ul>	<ul style="list-style-type: none"> <li>- Harmonised land cover data from CCE (horizontal merge)</li> </ul>	<ul style="list-style-type: none"> <li>- Methodology for health effects exposure assessment</li> </ul>	<ul style="list-style-type: none"> <li>- Population relevant modelled PM<sub>2.5</sub> concentrations (H)</li> </ul>	
2005	<ul style="list-style-type: none"> <li>- <i>Eulerian model results on chemical composition</i></li> <li>- <i>Assessment of links to hemispheric scale</i></li> </ul>		<ul style="list-style-type: none"> <li>- Materials effects thresholds</li> </ul>		
2006					

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TABLE 4. PLANNED ACTIVITIES CONCERNING HEAVY METALS

YEAR	EMEP SB		WGE		REMARKS
	DELIVERABLES	INPUTS FROM WGE	DELIVERABLES	INPUTS FROM EMEP	
2004	<ul style="list-style-type: none"> <li>- First report (with CCE) on CL exceedances for Cd and Pb</li> <li>- Hemispheric scale modelling for Hg</li> </ul>	<ul style="list-style-type: none"> <li>- Harmonised land cover data from CCE (horizontal merge)</li> </ul>			<ul style="list-style-type: none"> <li>- Input to WGSER Expert Group OK</li> </ul>
2005	<ul style="list-style-type: none"> <li>- Material for Protocol review (emissions, transfer)</li> <li>- <del>Review of MSC-E model</del></li> <li>- explore possibilities for IAM scenarios linking to Cd, Pb and Hg effects (WGSER preference needed) ???</li> </ul>	<ul style="list-style-type: none"> <li>- Maps of CL</li> </ul>	<ul style="list-style-type: none"> <li>- CL maps for Cd, Pb and Hg</li> <li>- Report (with MSC-E) on CL exceedances for Cd, Pb and Hg</li> <li>- Material for Protocol review</li> </ul>	<ul style="list-style-type: none"> <li>- Deposition maps for Cd, Pb and Hg for most current and protocol target years (MAP, W<sup>3</sup>, F<sup>2</sup>, V<sup>1</sup>, IM, H)</li> <li>- Deposition for other HM if available (V<sup>1</sup>)</li> <li>- Hg precipitation concentration maps (MAP)</li> </ul>	<ul style="list-style-type: none"> <li>- Input to/from WGSER Expert Group (from non-atmospheric input)</li> <li><sup>1</sup> To validate mosses as biomonitors of HM deposition at a European scale, V requests maps of HM deposition accumulated over 1997, 1998 and 1999. If possible also for other metals: As, Cr, Cu, Fe, Ni, V, Zn</li> <li><sup>2</sup> For comparison with data measured by ICP Forests and to calculate relationships between deposition, further environmental parameters and effects on forest condition.</li> <li><sup>3</sup> Use for mostly measured (empirical) data from CCC. The modelled values are of value for all modelling work (ecosystem specific measured and modelled deposition of Cd, Pb and Hg)</li> </ul>
2006			<ul style="list-style-type: none"> <li>- Update of risk assessment for forests</li> <li>- Other HM, if requested</li> <li>- Trends of heavy metals in mosses</li> </ul>		

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**TABLE 5. PLANNED ACTIVITIES CONCERNING PERSISTENT ORGANIC POLLUTANTS**

YEAR	EMEP SB		WGE		REMARKS
	DELIVERABLES	INPUTS FROM WGE	DELIVERABLES	INPUTS FROM EMEP	
2004	<ul style="list-style-type: none"> <li>- Trend analysis for PCB, <math>\gamma</math>-HCH, PCDD/F and B[a]F 1990-2000</li> <li>- Evaluation of media response to emission reduction for PAH and PCBs</li> <li>- Risk assessment of selected POPs for selected areas (with WGE) ?</li> </ul>	<ul style="list-style-type: none"> <li>- Risk assessment data</li> <li>- Measurements in compartments other than atmosphere</li> <li>- Harmonised land cover data from CCE (horizontal merge)</li> </ul>	<ul style="list-style-type: none"> <li>- Assessment of POPs in aquatic environment</li> </ul>		
2005	<ul style="list-style-type: none"> <li>- Material for Protocol review (existing and new substances)</li> <li>- Review of MSC-E model</li> </ul>		<ul style="list-style-type: none"> <li>- Material for Protocol review (existing and new substances)</li> </ul>	<ul style="list-style-type: none"> <li>- Population related exposure to selected POPs from long-range transport (H)</li> </ul>	<ul style="list-style-type: none"> <li>- Input to/from TF POPs</li> </ul>
2006			<ul style="list-style-type: none"> <li>- Health aspects of new POPs</li> <li>- Material for Protocol review (existing and new substances)</li> </ul>		

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