

Agenda Working Group 1

Air pollution and Climate,

including the role of Short Lived Climate Pollutants (SLCP)¹

1. Introduction (30 minutes) [10:00am to 10:30am]
 - a. Introductions of Working Group Members
 - b. Overview of Questions and Goal of Group
 - c. Review and Discussion of Agenda

2. Presentations (10 minutes each)[10:30am to 11:15 am]²
 - Scientific understanding of SLCPs and their climate effects. A particular question is regional vs global, i.e. does Europe benefit preferentially from European SLCP mitigation? (William Collins)
 - Overview of International Fora working on SLCP (Harnett)
 - Background on Black Carbon Emissions and Concentrations (Harnett)
 - Black Carbon Control Technique Guidance Document (LRTAP EGTEI)

3. Discussion of Questions (11:15am to 12:30pm)

4. Lunch (12:30pm to 13:30pm)

5. Presentation on optimization of trade-offs and co-benefits in Air Quality and climate change mitigation (Marcus Amann, IIASA) (10 minutes presentation and discussion, 1:30pm to 2:30pm)

6. Discussion on Questions (2:30pm to 4:00pm)³

7. Discussions on Recommendations (4:00pm to 5:30pm)

¹ Assumes meeting from 10:00am to 5:30pm with 1 hour break for Lunch (time for Group to work – 6 ½ Hours)

² Assumes morning break occurs prior to Groups meeting.

³ Afternoon break will likely occur during this time.

Useful references

T. C. Bond, S. J. Doherty, D. W. Fahey, P. M. Forster, T. Berntsen, B. J. DeAngelo, M. G. Flanner, S. Ghan, B. Kärcher, D. Koch, S. Kinne, Y. Kondo, P. K. Quinn, M. C. Sarofim, M. G. Schultz, M. Schulz, C. Venkataraman, H. Zhang, S. Zhang, N. Bellouin, S. K. Guttikunda, P. K. Hopke, M. Z. Jacobson, J. W. Kaiser, Z. Klimont, U. Lohmann, J. P. Schwarz, D. Shindell, T. Storelvmo, S. G. Warren, and C. S. Zender. Bounding the role of black carbon in the climate system: A scientific assessment. *J. Geophys. Res.* doi: 10.1002/jgrd.50171. URL <http://dx.doi.org/10.1002/jgrd.50171>

D. T. Shindell, J.-F. Lamarque, M. Schulz, M. Flanner, C. Jiao, M. Chin, P. Young, Y. H. Lee, L. Rotstayn, G. Milly, G. Faluvegi, Y. Balkanski, W. J. Collins, A. J. Conley, S. Dalsoren, R. Easter, S. Ghan, L. Horowitz, X. Liu, G. Myhre, T. Nagashima, V. Naik, S. Rumbold, R. Skeie, K. Sudo, S. Szopa, T. Takemura, A. Voulgarakis, and J.-H. Yoon. Radiative forcing in the accmip historical and future climate simulations. *Atmos. Chem. Phys.* , 12(8):21105–21210, 2012. doi: 10.5194/acpd-12-21105-2012. URL <http://www.atmos-chem-phys-discuss.net/12/21105/2012/>

A. Stohl, Z. Klimont, S. Eckhardt, and K. Kupiainen. Why models struggle to capture arctic haze: the underestimated role of gas flaring and domestic combustion emissions. *Atmospheric Chemistry and Physics Discussions* , 13(4):9567–9613, 2013. doi: 10.5194/acpd-13-9567-2013 . URL <http://www.atmos-chem-phys-discuss.net/13/9567/2013>

F. Raes, D. Streets, D. Fowler, L. Emberson, and M. Williams. Integrated assessment report on black carbon and tropospheric ozone. 2011