

Hemispheric Transport of Air Pollution 2010

Part D: Answers to
Policy-Relevant Science Questions



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PART D: ANSWERS TO POLICY-RELEVANT SCIENCE QUESTIONS

AIR POLLUTION STUDIES No. 20

Prepared by the Task Force on Hemispheric Transport of Air Pollution
acting within the framework of the
Convention on Long-range Transboundary Air Pollution



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In United Nations texts, the term “ton” refers to metric tons (1,000 kg or 2,204.6 lbs).

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UNECE Information Service
Palais des Nations
CH-1211 Geneva 10
Switzerland

Phone: +41 (0) 22 917 44 44
Fax: +41 (0) 22 917 05 05
E-mail: info.ece@unece.org
Website: <http://www.unece.org>

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Chemical Symbols, Acronyms and Abbreviations

Chemical Abbreviations

C – carbon
CO – carbon monoxide
CO₂ – carbon dioxide
CH₄ – methane
DDT -- dichlorodiphenyltrichloroethane
HCH – hexachlorohexane
H₂SO₄ – sulphuric acid
HCB – hexachlorobenzene
HCHO – formaldehyde
Hg – mercury
Hg⁰ – elemental mercury
Hg^{II} – oxidized, ionic mercury
Hg^P – mercury bound to suspended particulate matter
MeHg – methyl mercury
NH₃ – ammonia
NO₂ – nitrogen dioxide
NO₃ – nitrate
NO_x – nitrogen oxides
NO_y – total inorganic oxidized nitrogen
N₂O₅ -- dinitrogen pentoxide
Nr – total reactive nitrogen (including NO_y and NH_x)
O₃ – ozone
PAH – polycyclic aromatic hydrocarbon
PBDE – pentabromodiphenyl ether
PCB – polychlorinated biphenyl
PCDD/F – pentachlorodibenzodioxins and furans
PFOA – perfluorooctanoic acid
PFOS – perfluorooctane sulfonate
SO₂ – sulphur dioxide
SO₄ – sulphate
SO_x – anthropogenic sulphur oxides (combination of SO₂ and SO₄)
nss-SO₄ – non-seasalt sulphate

Acronyms and Abbreviations

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