

## Cooperation with UNEP Stockholm Convention

Information exchange with other international organizations and programmes is of importance for the assessment of environmental pollution of the EMEP region by POPs. In the framework of this activity MSC-E continues co-operation with the UNEP Stockholm Convention (SC) which includes application of data on emissions and measurements of POPs, compiled under this Convention.

In particular, evaluation of PCDD/F intercontinental transport and contributions of non-EMEP sources to the pollution of the EMEP countries is performed using experimental emission scenario, constructed on the basis of national inventories of dioxins and furans releases submitted by countries to the UNEP SC [Shatalov *et al.*, 2014]. There is significant progress in the development and updating of these national inventories. According to the national reports, provided by countries to the Stockholm Convention up to the beginning of 2016, information on dioxins and furans emissions is available for more than 140 countries. The reference years of reported emission data vary from 1998 up to 2014, with the majority of emission estimates made for the years around 2004. In addition, substantial number of countries provided data on PCDD/F releases for several years that can be used for the evaluation of temporal changes of emissions. This information is of importance for updating of the scenario of global PCDD/F emission and for the assessment of environmental pollution as in the EMEP region and on the global scale.

Along with data on emissions, significant amount of measurements of POP concentrations in ambient air is compiled in the UNEP SC Global Monitoring Plan Data Warehouse (GMP DWH). Global scale measurements of PCDD/Fs, PCB-153, and HCB concentrations are available for the period approximately from 1990 to 2014. This information has been applied for the analysis of global scale modeling results and estimates of pollution levels in the EMEP countries presented in this report.

Shatalov V., Ilyin I., Gusev A., Rozovskaya O., Travnikov O. [2014] Heavy Metals and Persistent Organic Pollutants: Model Assessment of Pollution and Research Activities. EMEP/MSC-E Technical report 4/2014.