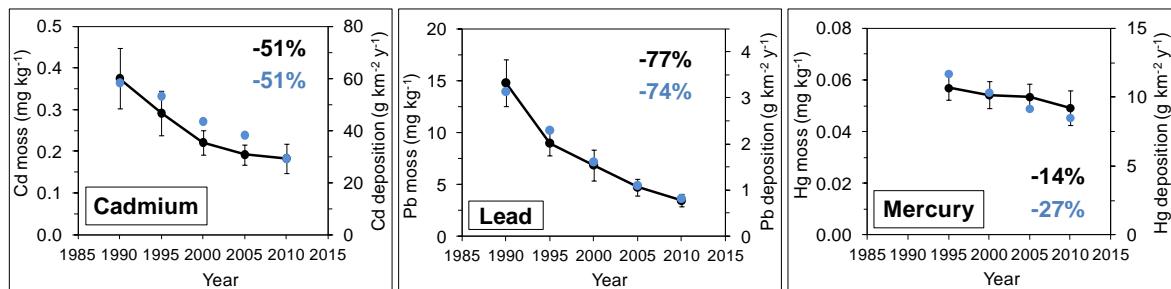
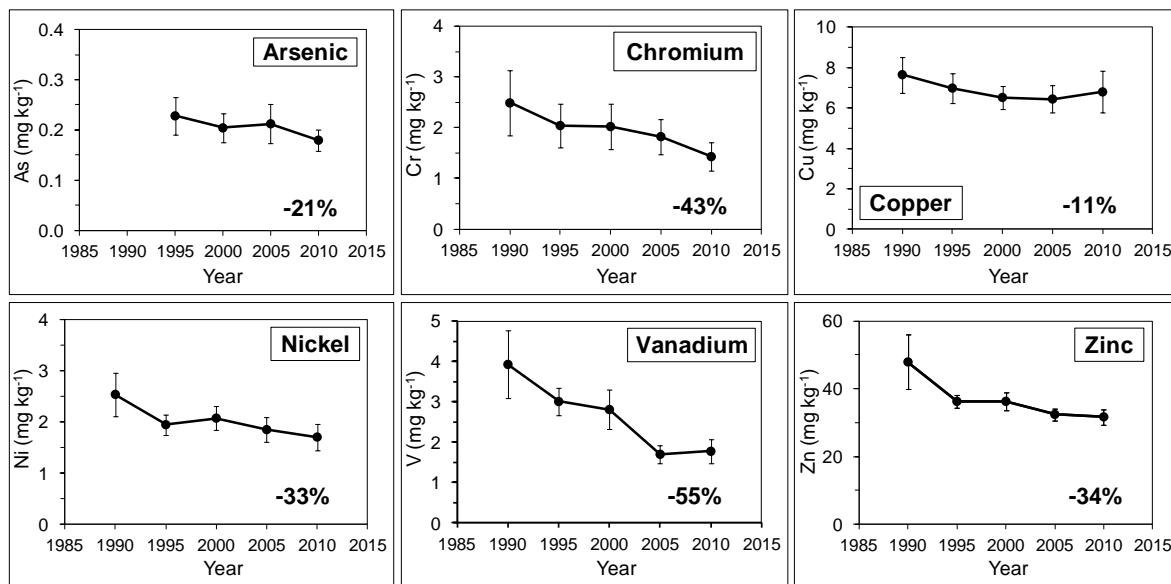


## Trends in heavy metal concentrations in mosses in Europe: 1990 - 2010



**Figure 1.** Average median heavy metal concentration ( $\pm$  one standard error) in mosses for countries that reported metal data for at least four survey years since 1990; some countries reported three survey years since 1995 for mercury (Harmens et al., 2015). The blue dots in the graphs show the decline in deposition across Europe as modelled by EMEP (Travnikov et al., 2012). The black and blue values in the graphs represent the percentage change (i.e. a decline) between 1990 (1995 for mercury) and 2010 for the moss concentrations and EMEP modelled depositions respectively.



**Figure 2.** Average median heavy metal concentration in mosses ( $\pm$  one standard error) for countries that reported metal data for at least four survey years since 1990 (1995 for arsenic; Harmens et al., 2015). The values in the graphs represent the percentage change (i.e. a decline) between 1990 (1995 for arsenic) and 2010.

**Note:** all figures and data are copyright of ICP Vegetation.

## **References**

Harmens, H., Norris, D.A., Sharps, K., Mills, G., Alber, R., Aleksiayenak, Y., Blum, O., Cucu-Man, S.M., Dam, M., De Temmerman, L. & Ene, A. (2015) Heavy metal and nitrogen concentrations in mosses are declining across Europe whilst some “hotspots” remain in 2010. *Environmental Pollution*, **200**: 93-104.

Travnikov, O., Ilyin, I., Rozovskaya, O., Varygina, M., Aas, W., Uggerud, H.T., Mareckova, K. & Wankmueller, R. (2012) Long-term changes of heavy metal transboundary pollution of the environment (1990-2010). EMEP Status Report 632 2/2012.