Correlation

Normalized standard deviation

EMEP: NH$_3$

EMEP: NH$_4^+$

EMEP: NH$_4^+$ wet deposition

Normalized standard deviation

EMEP: NH$_3$ (μgN m$^{-3}$)

EMEP: NH$_4^+$ (μgN m$^{-3}$)

EMEP: NH$_4^+$ wet deposition (gN m$^{-2}$ yr$^{-1}$)

EDG  HTAP  CEDS  FAN  OBS

EDG  HTAP  CEDS  FAN  OBS

EDG  HTAP  CEDS  FAN  OBS

Spatial  
FAN  CEDS  EDGAR  HTAP

Temporal
FAN  CEDS  EDGAR  HTAP

The underestimation of NH$_3$ concentrations mostly from the EDGAR simulation. The EDGAR simulation predicts emissions at stations located in Western and Central Africa. As noted in Section 2.5, due to limited data availability, the simulated results for 2010–2015 are here compared with measurements covering one or more years since 2003–2005. Figure 6. Same as Fig. 5, but for the EMEP network.