



Mean annual vertical columns of tropospheric NO₂ normalized to 1996 for the regions central East Coast US, Western Europe, US, east-central China, Japan, Middle East, and north-central India. Values for 1996–2002 are from GOME; values from 2003–2011 are from SCIAMACHY measurements. The first five regions are defined as in Richter et al. (2005). The y-axis has been modified to make relative changes above and below 1 more comparable (values larger than 1 have been scaled to $y \Rightarrow 2 - 1/y$). Very large changes are observed over just 15 years both over the western industrialised countries where NO₂ burdens have decreased markedly and over China, the Middle East and India where NO₂ is increasing. From Hilboll et al. (2013).