Region	Inventory	Resolution[a]	Year	Species[b]	References & notes
Anthropogenic emissions					
Global	EDGAR v4.2	0.1° × 0.1°, monthly	2008	NO_x, SO_2, CO, NH_3	http://edgar.jrc.ec.europa.eu/overview.php?v=42 (last access: 27 April 2017)
Global	BOND	1° × 1°, monthly	2000	BC and OC	Bond et al. (2007)
Global	RETRO	0.5° × 0.5°, monthly	2000	NMVOC	ftp://ftp.retro.enes.org/pub/emissions/aggregated/anthro/0.5x0.5/2000/ (last access: 13 May 2017)
Global	ICOADS, shipping	1° × 1°, monthly	2002	NO_x, SO_2, CO	Wang et al. (2008); http://coast.cms.udel.edu/GlobalShipEmissions/ (last access: 13 May 2017)
Global	AEIC, aircraft	1° × 1°, annual	2005	NO_x, SO_2, CO, NMVOC, BC, OC	Simone et al. (2013)
Asia	INTEX-B	1° × 1°, monthly	2006	NO_x, SO_2, CO, NMVOC, BC, OC, NH_3	Zhang et al. (2009). NH_3 only available for 2000.
China	MEIC	0.25° × 0.25°, monthly	2008	NO_x, SO_2, CO, NMVOC, NH_3	Li et al. (2017); Geng et al. (2017); http://www.meicmodel.org/ (last access: 7 June 2017).
United States	NEI2005	4 km × 4 km, monthly & weekend/weekday	2005[c]	NO_x, SO_2, CO, NMVOC, NH_3, BC, OC	ftp://aftp.fsl.noaa.gov/divisions/taq/emissions_data_2005 (last access: 13 May 2017)
Canada	CAC	1° × 1°, annual	2008	NO_x, SO_2, CO, NH_3	http://ec.gc.ca/inrp-npri/donnees-data/ap/index.cfm?lang=En (last access: 13 May 2017)
Mexico	BRAVO	1° × 1°, annual	1999[c]	NO_x, SO_2, CO	Kuhns et al. (2005)
Europe	EMEP	1° × 1°, monthly	2007	NO_x, SO_2, CO	Auvray and Bey (2005); http://www.emep.int/index.html (last access: 13 May 2017)
Biomass burning emissions					
Global	GFED3	0.5° × 0.5°, daily	2008	NO_x, SO_2, CO, NMVOC, NH_3, BC, OC	van der Werf et al. (2010); http://www.globalfiredata.org (last access: 13 May 2017)
Natural/seminatural emissions (online calculation)					
Global	MEGAN v2.1	Model resolution	2008	ISOP, monoterpenes, sesquiterpenes, MOH, ACET, ETOH, CH_2O, ALD2, HCOOH, C_2H_4, TOLU, PRPE	Guenther et al. (2012)
Global	Soil NO_x	Model resolution	2008	NO	Hudman et al. (2012)
Global	Lightning NO_x	Model resolution	2008	NO	Murray et al. (2012)