

GEOS-CHEM ANTHROPOGENIC EMISSIONS

	INVENTORY	BASE YEAR	REGION	Notes		1985-2003 scaling ¹	Available in Standard GC
GLOBAL	GEIA	1985	global	default	Seasonal	X ²	
	EDGAR	2000	global	option	Seasonal ³ , Yearly (CO)	X ⁴	
	SHIP ⁵	2000 ⁶	global	option	Yearly, Monthly (SO2)		v8-01-02
	BOND		global	default	Yearly		
REGIONAL	CAC	2002 2005	CANADA	option	Yearly	X	v8-01-02
	EMEP	2000	EUROPE	option	Yearly	X	
	EPA	1999 ⁷	USA	option	Monthly, weekend/weekday	X	
	BRAVO	1999	MEXICO	option	Yearly	X	
	STREETS	2000	S.E. ASIA	option	Yearly	X	
		2006		option	Yearly, incl. BioFuel		
COOKE		North America	default	Monthly			
FUTURE	STREETS	2020	S.E. ASIA	hardwired	Yearly, incl. BioFuel		v8-01-02
	CLE	2020	global	-	Yearly		NO
	CAIR	2020	USA	-	Monthly, incl. BioFuel + Biomass Burning + Biogenic		NO
	CAIR w/o EGU	2020	USA	-			

Table 1. Inventories general features. Use of optional inventories is set in the input.geos file.

¹ New scaling not related to EDGAR or GEIA. Applied to NO_x, CO and SO₂. Available in v8-01-02.

² GEIA emiss were scaled into 1985-2002, with their own scale factors prior v8-01-02

³ Seasonal scaling for NO_x and SO₂ is based on GEIA inventory

⁴ EDGAR emiss were scaled into 1985-2002 (1998-2002 for SO₂), with their own scale factors prior v8-01-02

⁵ EDGAR inventory

⁶ Base year is 2006 for SO₂ (David Streets revision)

⁷ Patch for California transport emissions from 2001

	INVENTORY	BASE YEAR	REGION	NOX	CO	PRPE	C3H8	ALK4	C2H6	ACET	MEK	ALD2	CH2O	SO2	SO4	NH3	BC	OC	Emiss. for offline simulation	
GLOBAL	GEIA	1985	global	X	X	X	X	X	X	X	X			X	X					
	EDGAR	2000	global	X	X									X						
	SHIP	2000	global	X	X									X					CO2, CH4	
	BOND		global														X	X		
REGIONAL	CAC	2002-5	CANADA	X	X									X		X				
	EMEP	2000	EUROPE	X	X	X		X	X		X	X								
	EPA	1999	USA	X	X	X	X	X	X	X	X		X	X	X	X				
	BRAVO	1999	MEXICO	X	X									X						
	STREETS	2000	S.E. ASIA	X	X										X		X			CH4, CO2
		2006		X	X	X	X	X	X	X	X	X	X							
	COOKE		N. AMERICA														X	X		
FUTURE	STREETS	2020	S.E. ASIA	X	X	X	X	X	X	X	X	X	X							
	CLE	2020	global	X	X	X	X	X	X		X	X	X	X						
	CAIR	2020	USA	X	X	X	X	X	X	X	X		X	X	X	X				
	CAIR w/o EGU																			

Table 2. Species available in each inventory.