Chemistry Mechanism	Family	Cases	Years	Metfields	Spatial resolution	Lightning	Biomass burning source	Isoprene emission	Ship Emission	Other emission	Fast J option	Number of species	Date compilated	Code Version	CVS tag	Details	System information	Results location (relative to omidata2/)
Combo	**Honovu DAO**		1/1977 - 3/1978	DAO	4x5x46	Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	6/30/08	2.18.2	LargeFileSupport_Netcdf_v2	NCAR convection	discover	/dirac/users/mrdamon/honovu/dao
	Honovu DAO spinup		1/1977 - 3/1978 (2X)	DAO	4x5x46	Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	6/24/08			NCAR convection	discover	/dirac/users/mrdamon/honovu/dao/spinup
		daoSpinup1	1/1977 - 3/1978 - 1			Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	6/23/08	2.18.1	LargeFileSupport_Netcdf	NCAR convection	discover	/dirac/users/mrdamon/honovu/dao/spinup
		daoSpinup2	1/1977 - 3/1978 - 2			Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	6/24/08	2.18.2	LargeFileSupport_Netcdf_v2	NCAR convection	discover	/dirac/users/mrdamon/honovu/dao/spinup
	Honovu GISS		1/1977 - 12/1977	GISS	4x5x23	Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	7/14/08	2.18.2	LargeFileSupport_Netcdf_v2	NCAR convection	discover	/dirac/users/mrdamon/honovu/giss/
	Honovu GISS Spinup		1/1977 - 12/1977 (2X)	GISS	4x5x23	Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	7/14/08	2.18.2	LargeFileSupport_Netcdf_v2	NCAR convection	discover	/dirac/users/mrdamon/honovu/giss/spinup
Combo	**Aura4**		1/2004 -6/2007	neos4gas	2x2.5	Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	5/6/08	2.18	FixLightNO_Continental	H2 fix included; ilat fix in condense routine; ESMF in code	discover	/dirac: output/omic/aura4
	Aura4 spinup		2004 (2X)	neos4gas	2x2.5		GFEDv2 year-specific- Yevich biofuel	old Harvard	T		fast_JX	124	1/18/08	2.0.0.b5	Aura2ReRun_AfterNewNOxBranch		discover	/dirac: output/omic/aura4/spinup
		aura4Spinup2	2004 -2			Dale 2006 - ap1.0 (mod)	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - 2000-1 fossil fuel emissions (FDGAR+others); adjust Nox	fast_JX	124	1/18/08	2.0.0.b5	Aura2ReRun_AfterNewNOxBranch	new Nox profile; updated coefficients; correct emissions; new aerosol dust data	discover	/dirac: output/omic/aura4/spinup
		aura4Spinup3	2004 -3			Dale 2006 - ap1.0 (mod)	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	1/18/08	2.0.0.b5	Aura2ReRun_AfterNewNOxBranch	new Nox profile; updated coefficients; updated emission file from spinup 2; new aerosol dust data	discover	/dirac: output/omic/aura4/spinup
	Aura4 no Indonesian wildfires emissions		7/2006 - 12/2006	neos4gas	2x2.5	Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	No Indonesian wildfires; Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	5/5/08	2.18	FixLightNO_Continental	H2 fix included; ilat fix in condense routine; ESMF in code	discover	/dirac: users/mrdamon/aura4-NoIndo
	Aura4 no Indonesian wildfires emissions & aerosol dust		7/2006 - 12/2006	neos4gas	2x2.5	Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	No Indonesian wildfires; Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	5/6/08	2.18	FixLightNO_Continental	H2 fix included; ilat fix in condense routine; ESMF in code; no Indonesian wildfires in aerosol dust files	discover	/dirac: users/mrdamon/aura4-NoIndoFireAer
	Aura4 no NO from lightning		2004-2006	neos4gas	2x2.5	none	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	3/28/06	2.16.0	NewProcess_for_Restart_and_SocCon_OutFiles_v2	H2 fix included; ilat fix in condense routine; ESMF in code	discover	/dirac: users/mrdamon/aura4-Dale/noLightNO
	Aura4 with old vertical profile		2004-2005	neos4gas	2x2.5	Dale 2008 0 ap1.2 (mod)	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	3/28/06	2.16.0.b1	Aura4_OldVertProfile	H2 fix included; ilat fix in condense routine; ESMF in code; partionmax replaced in lightning	discover	/dirac: users/mrdamon/aura4-Dale/oldPartNOx
	Aura4 read NO from lightning from file only		2004 -2005	neos4gas	2x2.5	read NO from lighting from file only	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	3/28/06	2.16.0	NewProcess_for_Restart_and_SocCon_OutFiles_v2	H2 fix included; ilat fix in condense routine; ESMF in code	discover	/dirac: users/mrdamon/aura4-Dale/readLightFile
	Aura4 lightning sensitivity	aura4Light_2004	2004-2006	neos4gas	2x2.5	Dale 2008 - ap2.0 (local and global ratios are read from file)	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	12/5/08	2.18.0.b1	LightSensitivity_DaleAura	H2 fix included; ilat fix in condense routine; ESMF in code. Made namelist change to GmsLightning to specify ratio file	discover	/dirac: users/mrdamon/LightSensitivity/
	Aura4 lightning sensitivity with midlatitude adjustment	aura4Light2_2004	2004-2006	neos4gas	2x2.5	Dale 2008 - ap2.0 (local and global ratios with adjusted midlatitude are read from file)	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	4/20/09	2.18.0.b3	LightSensitivity_DaleAura_v2Branch	H2 fix included; ilat fix in condense routine; ESMF in code. Made namelist change to GmsLightning to specify ratio file	discover	/dirac: users/mrdamon/LightSensitivity2/
	Aura4 no biomass burning	omic_aura4NoBiomassBurn	2006	neos4gas	2x2.5	Dale 2008 - ap1.3	none	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	1/2/09	2.18	FixLightNO_Continental	H2 fix included; ilat fix in condense routine; ESMF in code	discover	/dirac: users/mrdamon/aqhb/
	Aura4 Overpass2 OIOk	aura4OIOk	Aug-Oct 2005	neos4gas	2x2.5	Dale 2008 - ap1.3	GFEDv2 year-specific with diurnal variation: Yevich biofuel	Guenther et al. 2006, no scaling	T	Aura harvard ship - adjust Nox; - Hourly NOx fossil fuel variation; - MEGAN emissions; - Chinese seasonality of emissions from Streets; - 2004-5 GFEDv2 boreal emissions bug fix	fast_JX	124	1/7/09	2.18.0.b2	OkOIOverpass2_BryanAura	H2 fix included; ilat fix in condense routine; ESMF in code	discover	/dirac: users/mrdamon/aura4-OIOk/
Combo	**Aura3**		2006-2006	neos4gas	2x2.5	Dale 2006 - ap1.0	GFEDv2 year-specific- Yevich biofuel	Guenther et al. 1995, no scaling	T	Aura harvard ship - 2000-1 fossil fuel emissions (FDGAR+others)	fast_JX	124	9/16/07					discover	/dirac: output/omic/aura3
		aura3 1/2004 - 5/2005	1/2004 - 5/2005										9/16/07	2.0.0.b3	Aura2ReRun_1_2004_5_2005	surface hourly O3; wrong year of emissions during spinup		/dirac: output/omic/aura3
		aura3 6/2005 - 12/2005	6/2005 - 12/2005										9/16/07	2.0.0.b6	Aura2ReRun_6_2005_12_2006	first 8 levels of hourly O3;wrong year of emissions during spinup		/dirac: output/omic/aura3/2005
		aura3 (05 aerDust) 1/2006 - 12/2006	1/2006 - 12/2006										9/16/07	2.0.0.b6	Aura2ReRun_6_2005_12_2006	first 8 levels of hourly O3; 2005 aerosol dust;wrong year of emissions during spinup		/dirac: output/omic/aura3/2006_aerDust05
		aura3 (06 aerDust) 1/2006 - 12/2006	1/2006 - 12/2006										10/16/07	2.0.0.b6	Aura2ReRun_6_2005_12_2006	first 8 levels of hourly O3; 2006 aerosol dust;wrong year of emissions during spinup		/dirac: output/omic/aura3/2006
Combo	**Aura3 new NOx profile**	aura3NewNOx	2006-2005		2x2.5	Dale 2006 - ap1.0 new NOx	GFEDv2 year-specific	old Harvard	T	Aura harvard ship - 2000-1 fossil fuel emissions (FDGAR+others)	fast_JX	124	10/22/07	2.0.0.b1	AfterNOOven_NewLightning_v2_AuraRunCodeBranch	new Nox profile, omic_ap1.0MO2Aura2 base, problem with spinup;wrong year of emissions during spinup	discover	/dirac: users/mrdamon/aura3NewNOx/
		aqk3 metfields		neos4gas									10/22/07	not started				
		fvat metfields		fvat														
Combo	**Aura3 ap1.1**		2004-2006	neos4gas	2x2.5	Dale 2007 - ap1.1	GFEDv2 year-specific	old Harvard	T	Aura harvard ship - 2000-1 fossil fuel emissions (FDGAR+others)	fast_JX	124	12/18/07	2.0.0.b7	Aura2ReRun_ap1_1Branch	ap1.1 lightning	discover	/dirac: users/mrdamon/auraAp1-1
Combo	**Aura2**		2001 & 2004-2006	neos4gas	2x2.5	nox from file		old Harvard	T	2001 Intex SR1 SR2	fast_JX	124	3/26/07		Fix_for_CodeReadyForAuraRun			/dirac: output/omic/aura2
Combo	**Fvocm combo**	1/1994 - 12/1998	1994-1998	neos4gacm	2x2.5	Dale 2006 - ap1.0	Harvard 1992-1995	old Harvard	T	fossil fuel & biofuel Harvard 1995	fast_JX	124	9/30/07	2.0.0.b2	AuraRunCodeBranch_ap1_0MO2AuraFvocm		discover	/dirac: output/omic/fvocm/ap1.0MO2Aura2Fvocm
		1/1994 - 12/1994														surface hourly O3		/dirac: output/omic/fvocm/ap1.0MO2Aura2Fvocm
		1/1995 - 12/1998														first 8 levels of hourly O3		
Troposphere	**Map**																	
Troposphere	**Incremental**																	
Troposphere	**lightning**	omit_ap1.0LightDAS	2004-2005	neos4gas	2x2.5	Dale 2006 - ap1.0	GFEDv2 year-specific	old Harvard	T	2004 Aura harvard ship	fast_JX	85	7/6/07	2.0.1.b1	Lightning_Branch_DAS_ap1_0		discover	/dirac: output/omit/lightning/DAS/omit_ap1.0LightDAS
		omit_ap1.0LightFvocm	1994-1996	neos4gacm		Dale 2006 - ap1.0	GFEDv2 year-specific		F	detail seasonal CO ship NO Fvgcm	fast_JX	85		2.0.1.b4	Lightning_Branch_Fvocm_ap1_0			/dirac: output/omit/lightning/Fvocm/omit_ap1.0LightFvocm
		omit_defaultLightDAS	2004-2005	neos4gas		nox from file				climatology is not year specific				2.0.1.b2	Lightning_Branch_DAS_default_fix			/dirac: output/omit/lightning/DAS/omit_defaultLightDAS
		omit_defaultLightFvocm	1994-1996	neos4gacm		nox from file								2.0.1.b3	Lightning_Branch_Fvocm_default			/dirac: output/omit/lightning/Fvocm/omit_defaultLightFvocm
Troposphere	**lighting suite (November 2007)**			neos4gas	2x2.5			old Harvard	T	Aura harvard ship - 2000-1 fossil fuel emissions (FDGAR+others)	fast_JX	85				Updated emission and aerosol dust files.	discover	
		no NO from lightning	2004(2X) - 2006			none							haulted	2.0.1	Lightning_Branch_DAS_ap1_0Branch	coefficients (2001, 2004, 05) three hour timestep		/dirac: users/mrdamon/Tropo-no-NOLight-new
		default lightning (from file)	2004(2X) - 2006			nox from file							haulted	2.0.1	Lightning_Branch_DAS_ap1_0Branch	three hour timestep		/dirac: users/mrdamon/Tropo-nox-file-new
		new lightning ap1.0 -spinup	2004(2X)			Dale 2006							11/6/07	2.0.1	Lightning_Branch_DAS_ap1_0Branch	coefficients (2001, 2004, 05) three hour timestep		/dirac: users/mrdamon/Tropo-new-profile-new
		new lightning ap1.1 - spinup	2004(2X)			Dale 2007 - ap1.1							haulted		on discover:/discover/nobackup/mrdamon/GMI_source/Light/Tropo-new-ap1.1	ap.1.1 lightning scheme coefficients (2001, 2004, 05, 06) one hour time step		
		new lightning ap1.1 - production	2005-2006			Dale 2007 - ap1.1							not started			ap.1.1 lightning scheme same coefficients (2001, 2004, 05, 06)		
		Pickering et al 1998 lightning	2004(2X) - 2006			Pickering 1998							not started			Pickering lightning with 2001, 2004-2006 coefficients		