Appendix B

St. Louis Base 5 Emissions

Appendix B1: Documentation of SMOKE Input Files

Table B-1. SMOKE Inventory Input Files Used in 2002, 2009 and 2012 St. Louis Base 5 $PM_{2.5}$ Modeling Inventory – Point Sources

Unless otherwise specified in description column, emissions are for calendar year 2002.

Codes in application column are defined as follows:
T = file was used in the 2002 base 5 typical emissions inventory
G = file was used as the basis for applying growth and control factors within SMOKE for generating the 2009 and 2012 emissions
C = file was used in both the 2002, 2009 and 2012 inventories, i.e., the 2002 emissions were held constant to 2009 and 2012

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
ptinv.cenrap2002baseG.EGU.040407.ida	EGU emissions	CENRAP except Minnesota	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for CENRAP Base B modeling	Separated EGU from non-EGU sources; Removed Minnesota	T
ptinv.cenrap2002baseG.nonEGU.noMN.040407.ida	Non-EGU emissions	CENRAP except Minnesota	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for CENRAP Base B modeling	Separated EGU from non-EGU sources; Removed Minnesota; Removed Crystal City Nitrogen (290990006) – not operating in 2002; Set all control efficiencies to zero	T
ptinv.cenrap2002baseG.nonEGU.noMN.plantsout.noDoeRun290930008.042707.ida	Non-EGU emissions	CENRAP except Minnesota	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for CENRAP Base B modeling	Modified ptinv.cenrap2002baseG.nonEGU.noMN.040407.ida by removing facilities that were not grown within SMOKE	G
ptinv.mrpok02.withMN.nonegu.annual.050106.ida	Non-EGU emissions	MRPO and Minnesota	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base K modeling	Converted from NIF format to IDA format; Set control efficiencies to zero	T
ptday.mrpok02.nonegu.summer_wkday.050106.smk ptday.mrpok02.nonegu.winter_wkday.041107.smk	Non-EGU emissions	MRPO and Minnesota	Avg. summer / winter day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base K modeling	Converted from NIF format to SMOKE's day-specific point source format	T
ptinv.mrpok02.withMN.OH-IN.nonegu.annual.smk_grrow_2009.112106.ida	Non-EGU emissions	MRPO without Illinois plus Minnesota	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base K modeling	Modified ptinv.mrpok02.withMN.nonegu.annual.050106.ida by removing all IL, MI & WI facilities for growing outside SMOKE	G
egu_ptinv_vistas_2002typ_baseg_2453909.ida	EGU emissions	VISTAS	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Alpine Geophysics for VISTAS	Removed all non-VISTAS states; Separated EGU from non-EGU sources; Set all control efficiencies to zero	T
negu_ptinv_vistas_2002typ_baseg_070628.ida	Non-EGU emissions	VISTAS	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Alpine Geophysics for VISTAS	Removed all non-VISTAS states; Separated EGU from non-EGU sources; Set control efficiencies to zero	T, G

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
ptinv.wrap02.EGU.121405.ida	EGU emissions	WRAP	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for WRAP 2002 point inventory v. 1 (12/4/03); UCR removed non-WRAP states for CENRAP (9/8/04)	Separated EGU from non-EGU sources; Set control efficiencies to zero	T
ptinv.wrap02.nonEGU.120505.ida	Non-EGU point emissions	WRAP	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for WRAP 2002 point inventory v. 1 (12/4/03); UCR removed non-WRAP states for CENRAP (9/8/04)	Separated EGU from non-EGU sources; Set control efficiencies to zero	T, G
ptinv.manevu02.summer.EGU.121405.ida	EGU emissions	MANE-VU	Annual and avg. summer day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for MANE-VU (12/31/05)	Separated EGU from non-EGU sources; Set control efficiencies to zero	T
ptinv.manevu02.summer.nonEGU.120505.ida ptinv.manevu02.winter.nonEGU.120805.ida	Non-EGU emissions	MANE-VU	Annual and avg. summer day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for WRAP 2002 point inventory v. 1 (12/4/03); UCR removed non-WRAP states for CENRAP (12/8/04)	Separated EGU from non-EGU sources; Set all control efficiencies to zero	T, G
ptinv.BRAVO_Mexico99_ida.txt	EGU and Non-EGU emissions for 1999	Mexico	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Compiled by DRI for BRAVO study; IDA file prepared by CEP	None	T, G
ptinv_CANADA2000_v2.ida	EGU and Non-EGU emissions for 2000	Canada	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Environment Canada	None	T, G
VOC.afs.gwei2000.2000801.latlong.ida	Platform offshore inventory for 2000	Gulf of Mexico	Annualized Aug. emissions – Aug. day multiplied by 365	VOC	Compiled by MMS and TCEQ; Converted to IDA format by CEP	None	T, C
NOX.afs.gwei2000.2000801.latlong.ida	Platform offshore inventory for 2000	Gulf of Mexico	Annualized Aug. emissions – Aug. day multiplied by 365	NO_x	Compiled by MMS and TCEQ; Converted to IDA format by CEP	None	T, C

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
CO.afs.gwei2000.2000801.latlong.ida	Platform offshore inventory for 2000	Gulf of Mexico	Annualized Aug. emissions – Aug. day multiplied by 365	CO	Compiled by MMS and TCEQ; Converted to IDA format by CEP	None	T, C
PM10.afs.gwei2000.2000801.latlong.ida	Platform offshore inventory for 2000	Gulf of Mexico	Annualized Aug. emissions – Aug. day multiplied by 365	PM_{10}	Compiled by MMS and TCEQ; Converted to IDA format by CEP	None	T, C
PM2_5.afs.gwei2000.2000801.latlong.ida	Platform offshore inventory for 2000	Gulf of Mexico	Annualized Aug. emissions – Aug. day multiplied by 365	$PM_{2.5}$	Compiled by MMS and TCEQ; Converted to IDA format by CEP	None	T, C
SO2.afs.gwei2000.2000801.latlong.ida	Platform offshore inventory for 2000	Gulf of Mexico	Annualized Aug. emissions – Aug. day multiplied by 365	SO_2	Compiled by MMS and TCEQ; Converted to IDA format by CEP	None	T, C
ptinv_2002CENRAP_ptfires_$MONTH.ida.txt	Prescribed and wild fires spatially resolved as point sources	CENRAP	Dummy records needed to run day-specific emissions	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan and UCR for CENRAP Base B modeling	None	T, C
ptday_2002CENRAP_ptfires_$MONTH.ida.txt	Prescribed and wild fires treated as point sources	CENRAP	June day-specific emissions	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan and UCR for CENRAP Base B modeling	None	T, C
pthour_2002CENRAP_ptfires_$MONTH.ida.txt	Prescribed and wild fires treated as point sources	CENRAP	June day- and hour-specific plume rise data	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan and UCR for CENRAP Base B modeling	None	T, C

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
ptinv_agfires_$MONTH_vistas.ida	Prescribed and wild fires treated as point sources	VISTAS	Dummy records needed to run day-specific emissions	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	T, C
ptday_agfires_$MONTH_vistas.ida	Prescribed and wild fires treated as point sources	VISTAS	June day-specific emissions	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	T, C
pthour_agfires_$MONTH_vistas.ida	Prescribed and wild fires treated as point sources	VISTAS	June day- and hour-specific plume rise data	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	T, C
PTINV_wrap_allf_070605.$MONTH.ida	Prescribed and wild fires treated as point sources	WRAP	Dummy records needed to run day-specific emissions	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	T, C
PTDAY_wrap_allf_070605.$MONTH.ida	Prescribed and wild fires treated as point sources	WRAP	June day- and hour-specific plume rise data	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	T, C
pthour_2002CENRAP_ptfires_$MONTH.ida.txt	Prescribed and wild fires treated as point sources	WRAP	June day- and hour-specific plume rise data	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	T, C

Table B-2. SMOKE Inventory Input Files Used in 2002, 2009 and 2012 St. Louis Base 5 $PM_{2.5}$ Modeling Inventory – Area Sources

Unless otherwise specified in description column, emissions are for calendar year 2002.

Files marked with an asterisk (*) were only processed for the St. Louis 36 km modeling domain.

Codes in application column are defined as follows:
T = file was used in the 2002 base 5 typical emissions inventory
G = file was used as the basis for applying growth and control factors within SMOKE for generating the 2009 and 2012 emissions
C = file was used in the 2002, 2009 and 2012 inventories, i.e., the 2002 emissions were held constant to 2009 and 2012

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
CENRAP_AREA_SMOKE_INPUT_ANN_STATE.noMN.noNH3.ar.031607.ida	Standard area source SCCs (includes vehicle refueling) minus prescribed burning and wildfires for all of CENRAP except TX and Lincoln Co., NE.	CENRAP without Minnesota	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for CENRAP Base B modeling	Added portable fuel container emissions for MO; Corrected aircraft refueling emissions at Lambert International; Set all control efficiencies to zero; Removed dust and ammonia SCCs; Removed Minnesota	T, G
CENRAP_AREA_BURNING_SMOKE_INPUT_ANN_TX_NELI_071905.txt	Prescribed burning and wildfires for TX and Lincoln Co, NE	Texas and Lincoln Co., NE	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for CENRAP Base B modeling	None	T, G
CENRAP_AREA_MISC_SMOKE_INPUT_ANN_STATE_ar.031607.txt	Geogenic/wind erosion for Arkansas; Biogenic NH_3 emissions for Texas	Arkansas and Texas	Annual	PM_{10}, $PM_{2.5}$, NH_3	Prepared by Pechan for CENRAP Base B modeling	None	T, G
CENRAP_AREA_SMOKE_INPUT_ANNSTATE.noMN.noNH3.fire.031607.ida	Fires SCCs only	CENRAP	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for CENRAP Base B modeling	Set all control efficiencies to zero	T, G
arinv.mrpok02.withMN.annual.$SEASON.NoDust-NH3.ar.031607.ida	Standard area source SCCs (includes vehicle refueling) minus prescribed burning and wildfires	MRPO and Minnesota	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base K modeling	Removed dust and ammonia SCCs; Converted from NIF to IDA format	T, G
arinv.mrpok02.withMN.annual.$SEASON.NoDust-NH3.fire.031607.ida	Prescribed burning and wildfires	MRPO and Minnesota	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base K modeling	Removed dust and ammonia SCCs; Converted from NIF to IDA format	T, G

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
arems.mrpok02.$SEASON_day.NoDust-NH3.ar.031607.smk	Standard area source SCCs (includes vehicle refueling) minus prescribed burning and wildfires	MRPO and Minnesota	Avg. summer / winter day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base K modeling	Converted from NIF to SMOKE's EMS-95 area source format	T, G
arems.mrpok02.$SEASON_day.NoDust-NH3.fire.031607.smk	Prescribed burning and wildfires	MRPO and Minnesota	Avg. summer / winter day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base K modeling	Converted from NIF to SMOKE's EMS-95 area source format	T, G
arinv.VISTAS.noFD.noCE.noNH3.ar.031607.ida	Standard area source SCCs (includes vehicle refueling)	VISTAS	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Alpine Geophysics for VISTAS revised phase II base year modeling (9/29/04)	Set all control efficiencies to zero; Removed dust SCCs; Removed all non-VISTAS states	T, G
arinv.VISTAS.noFD.noCE.noNH3.fire.031607.ida	Prescribed burning and wildfire SCCs	VISTAS	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Alpine Geophysics for VISTAS revised phase II base year modeling (10/21/04)	Removed all non-VISTAS states	T, G
arinv.WRAP_v3.noFD.noCE.noNH3.ar.031607.ida	Standard area source SCCs (does not include vehicle refueling) minus prescribed burning and wildfires not treated as point sources	WRAP	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for WRAP (12/4/03)	Set all control efficiencies to zero; Removed dust SCCs	T, G
Arinv.WRAP_v3.noFD.noCE.noNH3.fire.031607.ida	Prescribed burning and wildfires not treated as point sources	WRAP	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Pechan for WRAP (12/4/03)	Set all control efficiencies to zero; Removed dust SCCs	T, G
MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_noFD_noCE.noNH3.ar.031607.ida	Standard area source SCCs (includes vehicle refueling) minus prescribed burning and wildfires	MANE-VU	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Pechan	Set all control efficiencies to zero; Removed dust SCCs	T, G
MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_noFD_noCE.noNH3.fire.031607.ida	Prescribed burning and wildfires	MANE-VU	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Pechan	Set all control efficiencies to zero; Removed dust SCCs	T, G
arinv_nodust.BRAVO_Mexico99_ida.ar.031607.txt *	1999 inventory with standard area source SCCs (does not include vehicle refueling) plus prescribed burning and wildfires	Mexico	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Compiled by DRI for BRAVO study; IDA file prepared by CEP; Dust SCCs removed by CEP	None	T, G
arinv_nodust.BRAVO_Mexico99_ida.fire.031607.txt *	Prescribed burning and wildfires	Mexico	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Compiled by DRI for BRAVO study; IDA file prepared by CEP; Dust SCCs removed by CEP	None	T, G

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
arinv_nodust_CANADA2000_v2.ar.031607.ida *	2000 inventory with standard area source SCCs (includes vehicle refueling) plus prescribed burning and wildfires	Canada	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Distributed by EPA EFIG; Dust SCCs removed by CEP	None	T, G
arinv_nodust_CANADA2000_v2.ar.031607.ida *	Prescribed burning and wildfires	Canada	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Distributed by EPA EFIG; Dust SCCs removed by CEP	None	T, G
VOC.nonplatform_2002EI.ida.sort *	2000 non-platform offshore inventory	Gulf of Mexico	Annual	VOC	MMS and TCEQ; Converted to IDA format by CEP	None	T, C
NOX.nonplatform_2002EI.ida.sort *	2000 non-platform offshore inventory	Gulf of Mexico	Annual	NO_x	MMS and TCEQ; Converted to IDA format by CEP	None	T, C
CO.nonplatform_2002EI.ida.sort *	2000 non-platform offshore inventory	Gulf of Mexico	Annual	CO	MMS and TCEQ; Converted to IDA format by CEP	None	T, C
SO2.nonplatform_2002EI.ida.sort *	2000 non-platform offshore inventory	Gulf of Mexico	Annual	SO_2	MMS and TCEQ; Converted to IDA format by CEP	None	T, C
PM.nonplatform_2002EI.ida.sort *	2000 non-platform offshore inventory	Gulf of Mexico	Annual	PM_{10}, $PM_{2.5}$	MMS and TCEQ; Converted to IDA format by CEP	None	T, C
arinv.nh3.mrpo02k.all_states.$MONTH.051006.ida	MRPO base k livestock ammonia inventory for entire USA	All states	Annualized from monthly emissions	NH_3		Converted to nif to ida format	T, C
fdinv1.CA2002_v2_wfac_111105.ida fdinv2_CA2002_111105.w_tfrac.ida	Fugitive dust SCCs emissions	California	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
rdinv_CA2002)v2_wfac_111105.ida	Road dust SCCs	California	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
fdinv1.cenrap2002_wfac_081705.ida fdinv2_cenrap2002_081705.w_tfrac.ida	Construction and Agriculture dust SCCs	Cenrap	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
rdinv_cenrap2002_wfac_081705.ida	Road dust SCCs	Cenrap	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
fdinv1_manevu2002_wfac_011705.ida fdinv2_mane-vu2002_011705.w_tfrac.ida	Construction and Agriculture dust SCCs	Manevu	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
rdinv_manevu2002_wfac.ida	Road dust SCCs	Manevu	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
fdinv1_Mexico1999_ERG_wfac_102707.ida fdinv2_Mexico1999_ERG_102707.w_tfrac.ida	Fugitive dust	Mexico	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
rdinv_Mexico1999_wfac_BRAVO_ida	Road dust	Mexico	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
fdinv1_nrpok_2002_20jun2006_w_tfrac.ida	Fugitive dust	Mrpo	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
fdinv1_vistas_2002g_2453908_w_pmfac.ida fdinv2_vistas_2002g_2453908_w_pmfac.ida	Fugitive dust	Vistas	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
rdinv_vistas_2002g_2453908_w_pmfac.txt	Road dust	Vistas	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
rdinv1_wrap2002_wfac_noCAWANDORUT_081205.ida rdinv1_wrap2002_wfac_WANDORUT_102105.ida rdinv2_wrap2002_v1_noCAWANDORUT_081205.w_tfrac.ida rdinv2_wrap2002_v1_WANDORUT_102105.w_tfrac.ida	Construction and Agriculture dust	Wrap	Annual	PM_{10}, $PM_{2.5}$	Eastern Research Group, Inc.		T, C
rdinv_wrap2002_wfac_$SEASON_082205.ida	Road dust	Wrap	Annual	PM_{10}, $PM_{2.5}$	Environ		T, C

Table B-3. SMOKE Inventory Input Files Used in St. Louis Base 5 $PM_{2.5}$ Modeling Inventory – Offroad Mobile Sources

Unless otherwise specified in description column, emissions are for calendar year 2002.

Files marked with an asterisk (*) were only processed for the St. Louis 36 km modeling domain.

Codes in application column are defined as follows:
T = file was used in the 2002 base 5 typical emissions inventory
G = file was used as the basis for applying growth and control factors within SMOKE for generating the 2009 emissions
C = file was used in both the 2002, 2009 and 2012 inventories, i.e., the 2002 emissions were held constant to 2009 and 2012

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
CENRAP_NONROAD_NOCmvAirLoc_SMOKE_INPUT_ANN_013006.txt	Emissions for NONROAD model SCCs for CENRAP except Minnesota and Iowa ag equipment	CENRAP except Minnesota	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Sonoma Tech and Pechan for CENRAP Base B modeling based on draft NONROAD2004 model	Replaced recreational marine emissions generated by running NONROAD using default equip populations and fuel parameters; Separated NONROAD SCCs from commercial marine, aircraft, locomotives SCCs	T
CENRAP_NONROAD_noMN_SMOKE_INPUT_$MONTH_071305.txt	Agricultural equipment emissions	Iowa	Annualized monthly emissions – monthly totals multiplied by 12	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base J modeling; IDA file created by Pechan	Removed Minnesota	T, G
CENRAP_NONROAD_noMN_CmvAirLoc_SMOKE_INPUT_ANN_102105.txt	Commercial marine vessels, aircraft, locomotive emissions	CENRAP except Minnesota	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Sonoma Tech and Pechan for CENRAP Base B modeling	Separated NONROAD SCCs from commercial marine, aircraft, locomotives SCCs; removed Minnesota	T, G

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
nrinv.mrpo02k.withMN.$MONTH.041406.ida	Emissions for NONROAD model SCCs	MRPO and Minnesota	Avg. monthly day and annualized monthly emissions – monthly total divided by 30 and multiplied by 365	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base K modeling	Converted from NIF to IDA format	T
nrinv.mrpok02.withMN.MAR.$SEASON.041406.ida	Commercial marine vessels, aircraft, locomotive emissions	MRPO and Minnesota	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by MRPO for Base K modeling	Converted from NIF to IDA format	T, G
nrinv_vistas2002_rev_100104.ida.txt	Emissions for NONROAD model SCCs	VISTAS	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Alpine Geophysics for VISTAS Phase II revised base year modeling (9/04); UCR separated aircraft, locomotive, commercial marine SCCs	None	T
nrinv_aircraft.vistas2002_rev_100104.ida.txt	Aircraft emissions	VISTAS	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Alpine Geophysics for VISTAS Phase II revised base year modeling (9/04); UCR created separate aircraft file for CENRAP	None	T, G
nrinv_shipping.vistas2002_rev_100104.ida.txt	Commercial marine vessel emissions	VISTAS	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Alpine Geophysics for VISTAS Phase II revised base year (9/04); UCR created separate commercial marine file for CENRAP	None	T, G
nrinv_locomotive.vistas2002_rev_100104.ida.txt	Locomotive emissions	VISTAS	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by Alpine Geophysics for VISTAS Phase II revised base year (9/04); UCR created separate locomotive file for CENRAP	None	T, G
nrinv_wrap2002_nonCA_$SEASON_060705.ida	Emissions for NONROAD model SCCs	WRAP except California	Annual and avg. summer day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3, SO_4, PMC, EC, OC	Prepared by ENVIRON for WRAP (8/2/05)	None	T
nrinv_wrap2002_Aircraft_$SEASON_080205.ida	Aircraft emissions	WRAP	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3, SO_4, PMC, EC, OC	Prepared by ENVIRON for WRAP (6/7/05)	None	T, G

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
nrinv_wrap2002_Comm_Marine_inshore_annual_tpd_080205.ida	Commercial marine vessel emissions	WRAP	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by ENVIRON for WRAP (6/7/05)	None	T, G
nrinv_wrap2002_locomotive_annual_tpd_080205.ida	Locomotive emissions	WRAP	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by ENVIRON for WRAP (6/7/05)	None	T, G
nrinv_CA2003_$SEASON_120403.ida.txt	2003 emissions for NONROAD model SCCs	California	Avg. summer day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Prepared by ENVIRON for WRAP (12/4/03)	None	T
nrinv_mane-vu2002_052505.ida.txt	Emissions for NONROAD model SCCs	MANE-VU	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Obtained from MARAMA; UCR separated out aircraft, commercial marine, locomotives	None	T
nrinv_aircraft.mane-vu2002_052505.ida.txt	Aircraft emissions	MANE-VU	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Obtained from MARAMA; UCR created separate file for aircraft	None	T, G
nrinv_shipping.mane-vu2002_052505.ida.txt	Commercial marine vessel emissions	MANE-VU	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Obtained from MARAMA; UCR created separate file for commercial marine	None	T, G
nrinv_locomotive.mane-vu2002_052505.ida.txt	Locomotive emissions	MANE-VU	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Obtained from MARAMA; UCR created separate file for locomotives	None	T, G
nrinv.CANADA2000_v2.ida *	2000 emissions for NONROAD model SCCs	Canada	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Obtained from UCR; Source of original data unclear	None	T, G
nrinv_aircraft.CANADA2000_v2.ida *	2000 emissions for aircraft	Canada	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Obtained from UCR; Source of original data unclear	None	T, G
nrinv_marine.CANADA2000_v2.ida *	2000 emissions for commercial marine vessels	Canada	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Obtained from UCR; Source of original data unclear	None	T, G

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR	Application
nrinv_locomotive.CANADA2000_v2.ida *	2000 emissions for locomotives	Canada	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Obtained from UCR; Source of original data unclear	None	T, G
nrinv.BRAVO_Mexico99_ida.txt *	1999 emissions for NONROAD model SCCs	Mexico	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Compiled by DRI for BRAVO study; Source of IDA file unclear	None	T, G
nrinv_aircraft.BRAVO_Mexico99_ida.txt *	1999 emissions for aircraft	Mexico	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Compiled by DRI for BRAVO study; Source of IDA file unclear	None	T, G
nrinv_locomotive.BRAVO_Mexico99_ida.txt *	1999 emissions for locomotives	Mexico	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Compiled by DRI for BRAVO study; Source of IDA file unclear	None	T, G

Table B-4. SMOKE Inventory Input Files Used in 2002 and 2009 St. Louis Base 5 $PM_{2.5}$ Modeling Inventory – Onroad Mobile Sources with Link-Based VMT

Codes in application column are defined as follows:
T = file was used in the 2002 base 5 typical emissions inventory
F = file was used in the 2009 base 5 emissions inventory
C = file was used in both the 2002 and 2009 inventories, i.e., the 2002 parameters were held constant in 2009

SMOKE-Ready File Name	Description	Spatial Coverage	Source of Original File/Data	Revisions	Application
mbinv.stllink.102105.txt	Link-based VMT activity	8 St. Louis NAA counties	MDNR, based on 10/14/05 EW Gateway data	Created for this study	MV,T
mbinv.stllink_102105.2009.il_im.051506.txt	Link-based VMT activity	3 IL-side NAA counties	ENVIRON, based on 2009 growth factors and mbinv.stllink.102105.txt	Separated out 90% of Madison and St. Clair VMT and 20% of Monroe VMT	F
mbinv.stllink_102105.2009.il_noim.051506.txt	Link-based VMT activity	3 IL-side NAA counties	ENVIRON, based on 2009 growth factors and mbinv.stllink.102105.txt	Separated out 10% of Madison and St. Clair VMT and 80% of Monroe VMT	F
mbinv.stllink.2009.MO.062306.txt	Link-based VMT activity	5 MO-side NAA counties	ENVIRON, based on 2009 growth factors and mbinv.stllink.102105.txt	Separated out all VMT for 5 MO-side NAA counties	F
vmtmix.stlouis.txt	Vehicle mix profile	8 St. Louis NAA counties	ENVIRON, based on county level VMT in IDA files (MO from MDNR; IL from MWRPO Base I [via Alpine for VISTAS modeling])	Created for this study	MV,T
vmtmix_2009.txt	Vehicle mix profile	8 St. Louis NAA counties	ENVIRON, based on grown 2009 VMT	Created for this study	F
mtpro.stllink.102605.txt	Temporal profiles	8 St. Louis NAA counties	MDNR, based on 10/14/05 EW Gateway data	Created for this study	MV,T,F,C
mtref.stllink.102405.txt	Temporal cross-reference list	8 St. Louis NAA counties	MDNR, based on 10/14/05 EW Gateway data	Created for this study	MV,T,F,C
spdpro.stllink.102405.txt	Speed profiles	8 St. Louis NAA counties	MDNR, based on 10/14/05 EW Gateway data	Created for this study	MV,T,F,C
spdref.stllink.102605.txt	Speed cross-reference list	8 St. Louis NAA counties	MDNR, based on 10/14/05 EW Gateway data	Created for this study	MV,T,F,C
mcref.stlouis.txt	County cross-reference list for 2002 processing	8 St. Louis NAA counties	ENVIRON	Created for this study	MV,T
mcref.IlRfgIM.txt	County cross-reference list for Illinois I/M scenario	3 IL-side NAA counties	MDNR	Created for this study	F
mcref.IlRfgNoIM.txt	County cross-reference list for Illinois no I/M scenario	3- IL-side NAA counties	MDNR	Created for this study	F
mcref.stlouis.IM071.txt	County cross-reference list for Missouri scenario	5 MO-side NAA counties	ENVIRON	Created for this study	F

SMOKE-Ready File Name	Description	Spatial Coverage	Source of Original File/Data	Revisions	Application
mvref.stlouis.txt	County SMOKE settings	8 St. Louis NAA counties	ENVIRON, based on specification of using county- and hour-specific meteorology	Created for this study	MV,T.F,C
abmgpro.us+can+mex.us36c.082604.txt	Mobile gridding profiles	36km domain	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
mgpro.stlouis.12k.060705.txt	Mobile gridding profiles	12km domain	ENVIRON	Created for this study	MV,T,F,C
mgpro.stlouis.4k.050305.txt	Mobile gridding profiles	4km domain	ENVIRON	Created for this study	MV,T,F,C
amgref.m3.us+can+mex.cenrap.102804.txt	Mobile gridding cross-reference	36km domain	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
mcodes.txt	Mobile codes	N/A	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
meproc.txt	Mobile emission processes	N/A	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
invtable_nonroad.cb4.120202.txt	Inventory table	N/A	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
July029510.in	Summer 2002 MOBILE6 input file	5 MO-side NAA counties except Franklin	MDNR	Reformatted for SMOKE	MV,T
jun029071.in	June 2002 MOBILE6 input file	Franklin county, MO	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T
jul029071.in	July 2002 MOBILE6 input file	Franklin county, MO	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T
aug029071.in	August 2002 MOBILE6 input file	Franklin county, MO	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T
017119.in	Summer 2002 MOBILE6 input file	3 IL-side NAA counties	Source of original data unclear; Should correspond to MWRPO Base I inventory; Obtained from Alpine Geophysics; Used in VISTAS modeling	None	MV,T
029510_2009.in	Summer 2009 MOBILE6 input file	5 MO-side NAA counties except Franklin	MDNR	Reformatted for SMOKE	F
029071_2009.in	Summer 2009 MOBILE6 input file	Franklin county, MO	Alpine Geophysics	None	F
017119_2009.in	Summer 2009 MOBILE6 input file with I/M	3 IL-side NAA counties	IEPA	None	F

SMOKE-Ready File Name	Description	Spatial Coverage	Source of Original File/Data	Revisions	Application
017133_2009.in	Summer 2009 MOBILE6 input file without I/M	3 IL-side NAA counties	IEPA	None	F

Table B-5. SMOKE Inventory Input Files Used in 2002 and 2009 St. Louis Base 5 $PM_{2.5}$ Modeling Inventory – Onroad Mobile Sources with County-Based VMT

Codes in application column are defined as follows:
MV = file was used in the 2002 base 5 actual emissions inventory
T = file was used in the 2002 base 5 typical emissions inventory
F = file was used in the 2009 base 5 emissions inventory
C = file was used in both the 2002 and 2009 inventories, i.e., the 2002 parameters were held constant in 2009

SMOKE-Ready File Name	Description	Spatial Coverage	Source of Original File/Data	Revisions	Application
mbinv01b_vmt_cenrap.ida	County-based VMT activity	AR, IA, LA, TX	2002 NEI v.1; Obtained from UCR; Used in CENRAP Base B modeling	Rearranged states	MV,T
mbinv02b_vmt_cenrap.ida	County-based VMT activity	MN, NE, KS, OK	2002 NEI v.1; Obtained from UCR; Used in CENRAP Base B modeling	Rearranged states	MV,T
mbinv03b_vmt_cenrap.ida	County-based VMT activity	MO (minus 8 St.L NAA counties)	2002 NEI v.1; Obtained from UCR; Used in CENRAP Base B modeling	Rearranged states and removed counties with link data	MV,T
mbinv_2002_ida_vmt_22sep04_stl.txt	County-based VMT activity	MWRPO	MWRPO Base I; Obtained from Alpine Geophysics; Used in VISTAS modeling	Removed counties in Illinois with link data	MV.T
mbinv.nei02.MVU_rev033104_vmt.ida	County-based VMT activity	MANE-VU	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T
mbinv.nei02.vistas_rev033104_vmt.ida	County-based VMT activity	VISTAS	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T
mbinv.Environ_WRAP_sum03_v1_ida.txt	County-based summer season emissions	WRAP (minus CA)	ENVIRON; Obtained from UCR; Used in CENRAP Base B modeling	None	MV
mbinv.Environ_CA_sum03_v1_ida.txt	County-based summer season emissions	CA	ENVIRON; Obtained from UCR; Used in CENRAP Base B modeling	None	MV

SMOKE-Ready File Name	Description	Spatial Coverage	Source of Original File/Data	Revisions	Application
mbinv.wrap_2002_rfmtvmt.030806.txt	County-based VMT activity	WRAP	ENVIRON; VMT data used to make pre-computed county-based emissions for WRAP/CENRAP	Formatted into IDA file with VMT for SMOKE	T
mbinv.BRAVO_Mexico99_ida.txt	County-based emissions	Non-US (Mexico)	BRAVO inventory; Obtained from UCR; Used in CENRAP Base B modeling	None	T,F,C
mbinv.CANADA2000_v1.ida.txt	County-based emissions	Non-US (Canada)	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	T,F,C
mbinv01b_vmt_cenrap.2009.ida	County-based VMT activity	AR, IA, LA, TX	ENVIRON, based on 2009 growth factors and mbinv01b_vmt_cenrap.ida	Created for this study	F
mbinv02b_vmt_cenrap.2009.ida	County-based VMT activity	MN, NE, KS, OK	ENVIRON, based on 2009 growth factors and mbinv02b_vmt_cenrap.ida	Created for this study	F
mbinv03b_vmt_cenrap.2009.ida	County-based VMT activity	MO (minus 8 St.L NAA counties)	ENVIRON, based on 2009 growth factors and mbinv03b_vmt_cenrap.ida	Created for this study	F
mbinv_2002_ida_vmt_22sep04_stl.2009.txt	County-based VMT activity	MWRPO	ENVIRON, based on 2009 growth factors and mbinv_2002_ida_vmt_22sep04_stl.txt	Created for this study	F
mbinv.nei02.MVU_rev033104_vmt.2009.ida	County-based VMT activity	MANE-VU	ENVIRON, based on 2009 growth factors and mbinv.nei02.MVU_rev033104_vmt.ida	Created for this study	F
mbinv.nei02.vistas_rev033104_vmt.2009.ida	County-based VMT activity	VISTAS	ENVIRON, based on 2009 growth factors and mbinv.nei02.vistas_rev033104_vmt.ida	Created for this study	F
mbinv.wrap_2002_rfmtvmt.010505.2009.txt	County-based VMT activity	WRAP	ENVIRON, based on 2009 growth factors and mbinv.wrap_2002_rfmtvmt.010405.txt	Created for this study	F
mcref_cenrap_011305.txt	County cross-reference list	CENRAP	Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T
mcref.vistas2.txt.revised.ag	County cross-reference list	Used for MWRPO	Source of original data unclear; Obtained from Alpine Geophysics; Used in VISTAS modeling	None	MV,T
mcref.vistas2.txt.ag	County cross-reference list	Used for MANE-VU, VISTAS, WRAP, non-US	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T
mcref_2009.txt	County cross-reference list	Used for CENRAP, MANE-VU, VISTAS, WRAP, non-US	Alpine Geophysics	None	F
mcref_2009.txt.srt.new17083	County cross-reference list	Used for MWRPO	Alpine Geophysics	Made 17083 its own reference county so RFG could be specified	F

SMOKE-Ready File Name	Description	Spatial Coverage	Source of Original File/Data	Revisions	Application
mvref_cenrap_stlouis.txt	County SMOKE settings	CENRAP	ENVIRON	Created for this study	MV,T,F,C
mvref_vista_pIIrev_091504.ag_stl	County SMOKE settings	MWRPO	Source of original data unclear; Obtained from Alpine Geophysics; Used in VISTAS modeling	Adjusted Illinois counties to use county- and hour-specific meteorology	MV,T
mvref_vista_pIIrev_091504.ag_stl.new17083	County SMOKE settings	MWRPO	Source of original data unclear; Obtained from Alpine Geophysics; Used in VISTAS modeling	Added settings to mvref_vista_pIIrev_091504.ag_stl version for 17083 since modeled as its own reference county in 2009	F
mvref_vistas2_txt.rev112904.cep	County SMOKE settings	Used for MANE-VU, VISTAS, WRAP, non-US	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
abmgpro.us+can+mex.us36c.082604.txt	Mobile gridding profiles	36km domain	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	Used for WRAP VMT	MV,T,F,C
abmgpro.us+can+mex.us36b.041204.txt	Mobile gridding profiles	36km domain	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	Used for MANE-VU, VISTAS, WRAP	MV,T,F,C
mgpro.stlouis.12k.060705.txt	Mobile gridding profiles	12km domain	ENVIRON	Created for this study	MV,T,F,C
mgpro.stlouis.4k.050305.txt	Mobile gridding profiles	4km domain	ENVIRON	Created for this study	MV,T,F,C
amgref.m3.us+can+mex.cenrap.102804.txt	Mobile gridding cross-reference	36km domain	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
amgref.m3.us+can+mex.091604.txt.stl	Mobile gridding cross-reference	36km domain Used for MANE-VU, VISTAS, WRAP, non-US	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
mtpro.cenrap.v5.txt	Temporal profiles	N/A	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
amptpro.m3.091304.us+can.vistas_${month}.txt	Temporal profiles	Used for MANE-VU, VISTAS, WRAP, non-US	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
mtref.cenrap.$MONTH.txt	Temporal cross-reference list	N/A	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C

SMOKE-Ready File Name	Description	Spatial Coverage	Source of Original File/Data	Revisions	Application
amptref.m3.091304.us+can.WRAP_VISTAS.txt	Temporal cross-reference list	Used for MANE-VU, VISTAS, WRAP, non-US	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
mcodes.txt	Mobile codes	N/A	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
mcodes.nti99_VISTAS.txt	Mobile codes	N/A Used for MANE-VU, VISTAS, WRAP, non-US	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
meproc.txt	Mobile emission processes	N/A	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C
invtable_nonroad.cb4.120202.txt	Inventory table	N/A	Source of original data unclear; Obtained from UCR; Used in CENRAP Base B modeling	None	MV,T,F,C

Table B-6. SMOKE Inventory Input Files Used in 2009 and 2012 St. Louis Base 5 $PM_{2.5}$ Modeling Inventory – EGU and Non-EGU Point Sources Not Grown Within SMOKE

All files in this table were processed within SMOKE for 2009 and 2012 directly. Growth and control factors were not applied within the SMOKE system.

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR
ptinv.2009_grown.nonegu.IL-MI-WI-MO.121906.ida	Non-EGU emissions for all IL, MI and WI facilities grown outside of SMOKE, newly permitted facilities in IL and MO, and facilities with emissions held constant in IL and MO	IL, MI, WI & MO	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Created for this study by MDNR and IEPA	N/A
ptday.mrpok.2009_grown.$MONTH.nonegu.IL-MI-WI.121906.smk	Non-EGU average day emissions for all all IL, WI and WI facilities grown outside of SMOKE, including newly permitted facilities and facilities with emissions held constant	IL, MI and WI	Avg. monthly day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Created for this study by MDNR and IEPA	N/A
ptinv_egu_cair_rpo219_2009.NoMRPO.061114.ida	EGU emissions assuming CAIR trading program, CAMR, NOx SIP Call, other state/local regulations	Entire 36 km domain except MRPO and Minnesota	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	RPO IPM 2.1.9 fuel reference case; IPM model run completed by ICF; IDA file prepared by Alpine Geophysics (Nov. 9, 2005)	Removed MRPO and Minnesota

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR
ptinv.mrpok.nonegu.IL-MI-WI-MO.2012_grown.081407.ida	Non-EGU emissions for all IL, WI and WI facilities grown outside of SMOKE, newly permitted facilities in IL and MO, and facilities with emissions held constant in IL and MO	IL, MI, WI & MO	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Created for this study by MDNR and IEPA	N/A
ptday.mrpok.nonegu.IL-MI-WI.2012_grown.$MONTH.081407.smk	Non-EGU average day emissions for all all IL, WI and WI facilities grown outside of SMOKE, including newly permitted facilities and facilities with emissions held constant	IL, MI and WI	Avg. monthly day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	Created for this study by MDNR and IEPA	N/A
ptinv.EPA30_BC_20_summer_2012_14MAR2007.MO-IL_edits.082107.ORL.txt	EGU emissions assuming CAIR trading program, CAMR, NOx SIP Call, IL's multi-pollutant rule, other state/local regulations	Entire 36 km domain	Annual and avg. day	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3		Revised PM emissions

Table B-7. SMOKE Inventory Input Files Used in 2009 and 2012 St. Louis Base 5 $PM_{2.5}$ Modeling Inventory – Offroad Mobile Sources

All emissions are for calendar year 2009. Emissions in this table were processed directly for 2009 and 2012 without applying growth and control factors within SMOKE.

SMOKE-Ready File Name	Description	Spatial Coverage	Temporal Coverage	Pollutants	Source of Original File/Data	Revisions Made by MDNR
nrinv.cenrap.$MONTH_2009.041406.ida	2009 emissions for NONROAD model SCCs	CENRAP	Annualized monthly emissions – total monthly emissions divided by (28, 30 or 31) multiplied by 365	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MRPO for Base I modeling using draft NONROAD2004 model	Converted from NIF to IDA format
nrinv.mrpo.$MONTH_2009.041406.ida	2009 emissions for NONROAD model SCCs	MRPO	Annualized monthly emissions – total monthly emissions divided by (28, 30 or 31) multiplied by 365	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MRPO for Base K modeling using draft NONROAD2004 model	Converted from NIF to IDA format
nrinv.vistas.$MONTH_2009.041406.ida	2009 emissions for NONROAD model SCCs	VISTAS	Annualized monthly emissions – total monthly emissions divided by (28, 30 or 31) multiplied by 365	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MRPO for Base I modeling using draft NONROAD2004 model	Converted from NIF to IDA format
nrinv.manevu.$MONTH_2009.041406.ida	2009 emissions for NONROAD model SCCs	MANE-VU	Annualized monthly emissions – total monthly emissions divided by (28, 30 or 31) multiplied by 365	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MRPO for Base I modeling using draft NONROAD2004 model	Converted from NIF to IDA format
nrinv.wrap.$MONTH_2009.041406.ida	2009 emissions for NONROAD model SCCs	WRAP	Annualized monthly emissions – total monthly emissions divided by (28, 30 or 31) multiplied by 365	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MRPO for Base I modeling using draft NONROAD2004 model	Converted from NIF to IDA format
nrinv.2012b5a.land.cenrap.080407.ida	2012 emissions for NONROAD model SCCs	CENRAP	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MDNR for Base 5 modeling using draft NONROAD2004 model	
nrinv.2012b5a.land.mrpo.080407.ida	2012 emissions for NONROAD model SCCs	MRPO	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MDNR for Base 5 modeling using draft NONROAD2004 model	
nrinv.2012b5a.land.vistas.080407.ida	2012 emissions for NONROAD model SCCs	VISTAS	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MDNR for Base 5 modeling using draft NONROAD2004 model	
nrinv.2012b5a.land.wrap_manevu.080407.ida	2012 emissions for NONROAD model SCCs	WRAP & MANEVU	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MDNR for Base 5 modeling using draft NONROAD2004 model	
nrinv.2012b5a.recmarine.all_rpos.080407.ida	2012 emissions for NONROAD model SCCs	All RPOs	Annual	VOC, NO_x, CO, PM_{10}, $PM_{2.5}$, SO_2, NH_3	MDNR for Base 5 modeling using draft NONROAD2004 model	

Appendix B2: Miscellaneous Base 5 Emissions Summary Tables

Table B-8. 2002 and 2009 Inventories – July Weekday Emissions for All EGU Point Sources in State of Missouri by Facility

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2009 CO (tpd)	2002 NO_x (tpd)	2009 NO_x (tpd)	2002 VOC (tpd)	2009 VOC (tpd)	2002 NH_3 (tpd)	2009 NH_3 (tpd)	2002 SO_2 (tpd)	2009 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2009 $PM_{2.5}$ (tpd)
029001	0006	AMERENUE-KIRKSVILLE COMBUSTION TURBINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029005	ORIS6594	ROCKPORT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029007	0012	AMERENUE-MEXICO COMBUSTION TURBINE	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
029007	0041	VANDALIA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029007	0053	AUDRAIN GENERATING LLC-AUDRAIN GENERATIN	0.08	0.16	0.06	0.07	0.00	0.00	0.00	0.01	0.01	0.00	0.02	0.01
029013	0029	BUTLER MUNICIPAL POWER PLANT-BUTLER	0.00	0.01	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029019	0002	COLUMBIA MUNICIPAL POWER PLANT-COLUMBIA	0.63	1.42	1.83	3.50	0.01	0.01	0.00	0.01	5.23	14.34	0.00	0.30
029019	0004	UNIVERSITY OF MISSOURI - COLUMBIA-POWER	0.01	0.02	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
029019	0105	AMEREN ENERGY GENERATING COMPANY-COLUMBI	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029021	0004	AQUILA INC-LAKE ROAD PLANT	0.52	0.33	12.39	5.97	0.08	0.06	0.01	0.02	10.36	10.59	0.06	0.17
029023	0050	POPLAR BLUFF MUNICIPAL UTILITIES-GENERAT	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029027	0007	FULTON POWER PLANT-FULTON	0.02	0.00	0.05	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029031	0061	JACKSON MUNICIPAL UTILITIES-JACKSON MUNI	0.02	0.00	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029031	0090	AMERENUE-VIADUCT COMBUSTION TURBINE	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2009 CO (tpd)	2002 NO_x (tpd)	2009 NO_x (tpd)	2002 VOC (tpd)	2009 VOC (tpd)	2002 NH_3 (tpd)	2009 NH_3 (tpd)	2002 SO_2 (tpd)	2009 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2009 $PM_{2.5}$ (tpd)
029033	0022	CARROLLTON MUNICIPAL UTILITIES-CARROLLTO	0.01	0.01	0.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029037	0003	AQUILA INC-RALPH GREEN GENERATING PLANT	0.02	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
029037	0056	ARIES POWER PLANT-PLEASANT HILL	0.17	0.43	0.44	0.19	0.02	0.01	0.00	0.03	0.02	0.00	0.06	0.04
029041	0032	SALISBURY MUNICIPAL UTILITIES-BOARD OF P	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029045	0026	KAHOKA ELECTRIC GENERATING PLANT-KAHOKA	0.01	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
029047	0096	INDEPENDENCE POWER AND LIGHT-MISSOURI CI	0.03	0.09	1.72	1.97	0.00	0.01	0.00	0.01	8.21	21.84	0.01	1.75
029051	0008	AMERENUE-MOREAU COMBUSTION TURBINE	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
029051	0049	AMERENUE-FAIRGROUNDS COMBUSTION TURBINE	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
029061	0023	GALLATIN POWER PLANT-GALLATIN	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029061	ORIS8017	GALLATIN #2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029069	0034	MALDEN MUNICIPAL POWER & LIGHT-MALDEN MU	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029069	0063	KENNETT GENERATING PLANT-KENNETT GENERAT	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029069	0064	CAMPBELL MUNICIPAL POWER PLANT-CAMPBELL	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029069	0066	ASSOCIATED ELECTRIC COOPERATIVE INC-ST.	0.03	0.30	0.11	0.16	0.01	0.01	0.00	0.02	0.00	0.00	0.01	0.02
029071	0003	AMERENUE-LABADIE PLANT	6.50	8.01	24.27	31.79	0.78	0.96	0.00	0.48	147.39	199.90	2.10	5.50
029075	0023	ALBANY MUNICIPAL POWER PLANT-ALBANY MUNI	0.00	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029075	0024	STANBERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029077	0005	CITY UTILITIES OF SPRINGFIELD MISSOURI-J	0.90	0.92	19.73	15.88	0.11	0.11	0.00	0.05	19.96	23.22	0.59	3.88
029077	0039	CITY UTILITIES OF SPRINGFIELD MISSOURI-S	0.57	0.59	6.46	6.93	0.05	0.07	0.00	0.04	10.85	5.96	0.23	0.57
029077	0164	CITY UTILITIES OF SPRINGFIELD-N L MCCART	0.09	0.06	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029079	0010	TRENTON MUNICIPAL UTILITIES-TRENTON POWE	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029079	0027	TRENTON MUNICIPAL UTILITIES-TRENTON PEAK	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029079	ORIS7935	TRENTON SOUTH	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029081	0015	BETHANY MUNICIPAL POWER PLANT-PLANT #1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2009 CO (tpd)	2002 NO_x (tpd)	2009 NO_x (tpd)	2002 VOC (tpd)	2009 VOC (tpd)	2002 NH_3 (tpd)	2009 NH_3 (tpd)	2002 SO_2 (tpd)	2009 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2009 $PM_{2.5}$ (tpd)
029083	0001	KANSAS CITY POWER & LIGHT CO-MONTROSE GE	1.53	2.13	20.26	24.07	0.18	0.26	0.00	0.13	56.70	76.34	0.51	1.47
029095	0021	TRIGEN ENERGY CORPORATION-GRAND AVENUE S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029095	0022	KANSAS CITY POWER & LIGHT CO-HAWTHORN ST	0.27	2.81	0.12	8.08	0.01	0.32	0.00	0.17	0.00	7.92	0.04	2.06
029095	0023	KANSAS CITY POWER & LIGHT CO-NORTHEAST S	0.00	0.01	0.52	0.04	0.00	0.00	0.00	0.00	0.17	0.00	0.01	0.00
029095	0031	AQUILA INC-SIBLEY GENERATING STATION	1.23	1.54	38.47	10.01	0.27	0.34	0.00	0.09	36.84	38.98	0.08	0.65
029095	0050	INDEPENDENCE POWER AND LIGHT-BLUE VALLEY	0.16	0.24	1.95	4.07	0.01	0.03	0.00	0.01	13.18	10.76	0.09	3.12
029095	0139	AQUILA INC-GREENWOOD ENERGY CENTER	0.29	0.06	1.15	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.00
029095	0222	INDEPENDENCE POWER AND LIGHT-SUB STATION	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029095	0223	INDEPENDENCE POWER AND LIGHT-SUB STATION	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029095	0224	INDEPENDENCE POWER AND LIGHT-SUB STATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029097	0001	EMPIRE DISTRICT ELECTRIC CO-ASBURY PLANT	0.57	0.79	19.43	2.04	0.08	0.17	0.00	0.05	13.90	14.84	0.01	1.48
029097	0062	EMPIRE DISTRICT ELECTRIC CO-EMPIRE ENERG	0.01	0.02	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029097	0104	EMPIRE DISTRICT ELECTRIC CO-STATE LINE F	1.30	0.46	0.48	0.13	0.12	0.01	0.00	0.04	0.01	0.00	0.10	0.04
029097	0110	CARTHAGE WATER & ELECTRIC-CARTHAGE WATER	0.09	0.02	0.91	0.01	0.03	0.00	0.00	0.00	0.01	0.00	0.01	0.00
029099	0016	AMERENUE-RUSH ISLAND PLANT	3.52	3.97	12.47	15.25	0.42	0.48	0.00	0.24	72.74	94.42	1.09	2.60
029101	0051	ASSOCIATED ELECTRIC COOPERATIVE INC-HOLD	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029107	0038	HIGGINSVILLE MUNICIPAL POWER FACILITY-HI	0.03	0.02	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029107	0047	ODESSA MUNICIPAL POWER PLANT-ODESSA MUNI	0.01	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029115	0021	CITY OF MARCELINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029117	0002	CHILLICOTHE MUNICIPAL UTILITIES-CHILLICO	0.00	0.03	0.02	0.71	0.00	0.00	0.00	0.00	0.00	7.97	0.00	0.28
029121	0004	MACON MUNICIPAL UTILITIES-MACON MUNICIPA	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029121	0006	LA PLATA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029127	0053	PALMYRA MUNICIPAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2009 CO (tpd)	2002 NO_x (tpd)	2009 NO_x (tpd)	2002 VOC (tpd)	2009 VOC (tpd)	2002 NH_3 (tpd)	2009 NH_3 (tpd)	2002 SO_2 (tpd)	2009 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2009 $PM_{2.5}$ (tpd)
029127	ORIS7304	PALMYRA MUNICIPAL 2	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029137	0028	MONROE CITY POWER PLANT-MONROE CITY	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029143	0004	ASSOCIATED ELECTRIC COOPERATIVE INC-NEW	2.43	2.71	77.82	12.08	0.54	0.60	0.00	0.16	34.89	39.81	0.15	13.43
029147	0032	ASSOCIATED ELECTRIC COOPERATIVE INC-NODA	0.10	0.09	0.11	0.07	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01
029151	0002	CENTRAL ELECTRIC POWER COOPERATIVE-CHAMO	0.20	0.22	6.76	4.96	0.04	0.05	0.00	0.01	9.65	6.00	0.03	0.66
029163	0047	AMERENUE-PENO CREEK ENERGY CENTER	0.02	0.05	0.30	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.05	0.00
029165	0007	KANSAS CITY POWER & LIGHT CO-IATAN GENER	1.73	2.16	22.13	25.76	0.21	0.26	0.00	0.13	44.71	47.95	0.57	1.47
029165	0009	AQUILA INC-KCI ENERGY CENTER	0.01	0.01	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029171	0005	UNIONVILLE POWER & LIGHT-UNIONVILLE POWE	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029171	0015	ASSOCIATED ELECTRIC COOPERATIVE INC-UNIO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029175	0001	ASSOCIATED ELECTRIC COOPERATIVE INC-THOM	3.06	3.60	53.15	23.24	0.50	0.57	0.00	0.22	46.11	53.61	0.48	1.79
029175	0010	AMERENUE-MOBERLY COMBUSTION TURBINE	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
029183	0001	AMERENUE-SIOUX PLANT	2.58	2.79	43.36	21.41	0.55	0.61	0.00	0.17	140.91	7.05	0.46	4.53
029189	0010	AMERENUE-MERAMEC PLANT	2.60	3.34	34.45	22.06	0.31	0.40	0.01	0.20	61.64	77.95	0.57	2.20
029189	0023	AMERENUE-HOWARD BEND COMBUSTION TURBINE	0.01	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
029195	0010	MARSHALL MUNICIPAL UTILITIES-MARSHALL MU	0.08	0.03	1.88	0.35	0.01	0.00	0.00	0.00	8.36	3.71	0.01	0.23
029199	0020	MEMPHIS POWER PLANT-MEMPHIS POWER PLANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029201	0017	SIKESTON POWER STATION-SIKESTON POWER ST	0.76	0.69	6.27	5.37	0.01	0.08	0.00	0.04	17.74	4.12	0.27	0.68
029201	ORIS2158	COLEMAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029205	0011	SHELBINA POWER PLANT-SHELBINA POWER PLAN	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029205	ORIS7406	SHELBINA POWER #2	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029207	0064	ASSOCIATED ELECTRIC COOPERATIVE INC-ESSE	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029217	0034	AQUILA INC-NEVADA GAS TURBINE	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	**32.29**	**40.30**	**410.19**	**246.77**	**4.49**	**5.45**	**0.05**	**2.38**	**759.80**	**767.26**	**7.75**	**48.97**

Table B-9. 2002 and 2009 Inventories -- July Weekday Emissions for All EGU Point Sources in State of Illinois by Facility

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2009 CO (tpd)	2002 NO_x (tpd)	2009 NO_x (tpd)	2002 VOC (tpd)	2009 VOC (tpd)	2002 NH_3 (tpd)	2009 NH_3 (tpd)	2002 SO_2 (tpd)	2009 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2009 $PM_{2.5}$ (tpd)
017011	011085AAA	PRINCETON MUNCIPAL ELECTRIC UTILITY	0.30	0.00	1.05	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017011	ORIS700117	GENERIC UNIT	0.00	0.17	0.00	0.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
017019	019010ADA	U_OF_I_-_CHAMPAIGNURBANA	0.83	0.00	2.50	0.00	0.03	0.00	0.01	0.00	0.91	0.00	0.03	0.00
017019	019065AAN	RANTOUL ELECTRIC GENERATING PLANT	0.20	0.01	1.25	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017019	ORIS700217	GENERIC UNIT	0.00	0.17	0.00	0.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
017021	021814AAB	KINCAID GENERATION LLC	2.52	3.40	59.82	10.22	0.55	0.75	0.00	0.20	50.41	63.41	0.28	1.68
017021	ORIS700317	GENERIC UNIT	0.00	0.17	0.00	0.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
017025	025803AAD	MEP FLORA POWER LLC	0.18	0.10	0.31	0.30	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01
017025	ORIS800117	GENERIC UNIT	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017027	027025AAB	BREESE MUNICIPAL POWER PLANT	0.08	0.00	0.36	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017027	027030AAA	CARLYLE MUNICIPAL ELECTRIC PLANT	0.15	0.00	0.57	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017031	031333AAD	WINNETKA	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017031	031438ABC	ELGIN ENERGY CENTER	0.00	0.05	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017031	031600AIN	MIDWEST GENERATION LLC	2.03	2.14	11.93	10.03	0.01	0.25	0.00	0.13	27.20	38.77	0.91	1.29
017031	031600AMI	MIDWEST GENERATION LLC	0.65	1.23	13.51	5.42	0.01	0.14	0.00	0.08	13.40	20.20	0.36	0.73
017031	031812AAQ	LAKE LANDFILL	0.17	0.00	0.14	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017031	ORIS50573	CID GAS RECOVERY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017031	ORIS55281	SOUTHEAST CHICAGO ENERGY PROJE	0.00	0.04	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017033	033801AAA	AMEREN ENERGY GENERATING CO	0.29	0.34	6.71	3.86	0.05	0.04	0.00	0.02	54.41	35.39	0.01	3.99
017041	041030ABG	TRIGEN-CINERGY_SOLUTIONS	1.55	0.00	16.33	0.00	0.11	0.00	0.00	0.00	25.92	0.00	0.02	0.00
017043	043407AAF	RELIANT ENERGY AURORA	1.67	0.20	1.05	0.61	0.02	0.01	0.00	0.02	0.00	0.00	0.00	0.02
017043	043448AAB	BROWNING-FERRIS GAS SERVICE	0.93	0.00	0.41	0.01	0.16	0.00	0.00	0.00	0.06	0.00	0.00	0.00
017043	ORIS55014	GREENE VALLEY GAS RECOVERY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017051	051808AAK	FREEDOM POWER PROJ	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017053	053803AAL	AMEREN_ENERGY_GENERATING_CO	3.60	0.00	7.25	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017057	057801AAA	AES DUCK CREEK	0.83	1.01	17.73	2.85	0.10	0.12	0.00	0.06	36.69	19.95	0.45	1.34
017063	063800AAJ	CALPINE_(MORRIS)_LLC	0.32	0.00	0.36	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
017063	063806AAF	MIDWEST_GENERATION_LLC	23.74	0.00	27.38	0.00	0.62	0.00	0.10	0.00	0.47	0.00	0.08	0.00
017065	065020AAW	MCLEANSBORO POWER PLANT	0.02	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017073	073050AAA	GENESEO MUNICIPAL UTILITIES	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2009 CO (tpd)	2002 NO_x (tpd)	2009 NO_x (tpd)	2002 VOC (tpd)	2009 VOC (tpd)	2002 NH_3 (tpd)	2009 NH_3 (tpd)	2002 SO_2 (tpd)	2009 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2009 $PM_{2.5}$ (tpd)
017077	ORIS862	GRAND TOWER	0.00	0.26	0.00	0.25	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.02
017079	079808AAA	AMEREN ENERGY GENERATING CO	3.25	3.45	15.85	17.56	0.44	0.41	0.00	0.21	54.29	39.19	0.28	3.12
017089	089425AAC	ROCKY_ROAD_POWER_LLC	0.08	0.00	0.09	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00
017089	089808AAA	SETTLERS HILL RDF/MIDWAY LANDFILL	0.08	0.00	0.13	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00
017089	ORIS54662	WOODLAND LANDFILL GAS RECOVERY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017091	091809AAF	KANKAKEE REYCLYING & DISPOSAL	0.13	0.00	0.17	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00
017091	ORIS52034	BUNGE FOODS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017093	093808AAD	KENDALL COUNTY GENERATION	0.00	0.68	0.00	2.07	0.00	0.02	0.00	0.05	0.00	0.00	0.00	0.05
017097	097190AAC	MIDWEST GENERATION LLC	1.99	2.65	16.22	10.92	0.02	0.35	0.00	0.16	35.80	44.64	0.66	1.54
017097	097200ABB	ZION ENERGY LLC	0.09	0.21	0.35	0.41	0.05	0.01	0.00	0.02	0.03	0.00	0.00	0.02
017099	099085AAH	CITY OF PERU GENERATING STATION	0.12	0.00	0.45	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017099	099816AAB	DYNEGY_MIDWEST_GENERATIO N_INC	0.01	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017103	103817AAH	LEE GENERATING STATION	0.00	0.17	0.00	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
017107	107816AAK	CENTRAL ILLINOIS LIGHT CO	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017109	109015AAH	BUSHNELL MUNICIPAL ELECTRIC LIGHT & POWE	0.21	0.01	0.84	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017113	ORIS7556	STATE FARM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017115	ORIS54360	PPG INDUSTRIES INC WORKS 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017119	119020AAE	DYNEGY MIDWEST GENERATION INC	1.03	1.58	7.52	8.69	0.13	0.19	0.00	0.09	23.08	26.17	0.19	5.03
017119	119055AAD	HIGHLAND ELECTRIC LIGHT PLANT	0.14	0.00	0.52	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017119	119105AAA	UNION ELECTRIC CO	2.78	0.13	3.43	0.11	0.04	0.00	0.02	0.01	0.00	0.00	0.01	0.01
017119	119813AAC	DYNEGY_MIDWEST_GENERATIO N_INC	0.30	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017125	125804AAB	DYNEGY MIDWEST GENERATION INC	0.94	1.04	12.93	2.93	0.11	0.13	0.06	0.06	42.47	48.84	0.18	1.90
017127	127855AAC	ELECTRIC ENERGY INC	3.40	2.44	15.99	15.06	0.48	0.29	0.00	0.15	63.99	58.77	0.78	1.84
017127	127899AAA	MIDWEST ELECTRIC POWER INC	0.00	0.01	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017133	133030AAO	WATERLOO CITY LIGHT PLANT	0.90	0.01	1.66	0.01	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017135	135803AAA	AMEREN ENERGY GENERATING CO	3.89	2.57	81.68	6.44	0.61	0.57	0.00	0.15	153.64	92.03	0.07	5.39
017137	137805AAA	AMEREN ENERGY GENERATING CO	1.18	1.19	27.00	14.88	0.83	0.14	0.00	0.07	221.65	53.89	0.52	7.36

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2009 CO (tpd)	2002 NO_x (tpd)	2009 NO_x (tpd)	2002 VOC (tpd)	2009 VOC (tpd)	2002 NH_3 (tpd)	2009 NH_3 (tpd)	2002 SO_2 (tpd)	2009 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2009 $PM_{2.5}$ (tpd)
017139	139030AAE	SULLIVAN POWER PLANT	0.29	0.00	0.88	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017141	141017AAE	GAS_RECOVERY_SYSTEMS_OF_ILLINOIS_INC	0.28	0.00	0.07	0.00	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00
017141	141050AAH	ROCHELLE MUNICIPAL DIESEL PLANT	0.49	0.01	1.93	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017141	141050AAV	ROCHELLE_MUNICIPAL_DIESEL_PLANT	0.95	0.00	3.74	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017143	143065AMW	AES STERLING AVENUE STATION	0.05	0.01	0.22	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017143	143804AAB	CENTRAL ILLINOIS LIGHT CO	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017143	143805AAG	AES ED EDWARDS STATION	1.28	1.58	27.31	4.45	0.15	0.19	0.00	0.10	109.26	8.90	0.51	2.09
017145	145842AAA	AMEREN ENERGY GENERATING CO	3.96	0.09	5.47	0.09	0.97	0.00	0.00	0.01	0.00	0.00	0.00	0.01
017147	147803AAC	GOOSE CREEK ENERGY CENTER	0.00	0.05	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017149	149817AAB	SOYLAND POWER COOP INC	0.07	0.06	3.32	1.30	0.01	0.01	0.00	0.00	4.22	12.67	0.00	0.25
017149	149819AAB	SOYLAND POWER COOPERATIVE INC	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017155	155010AAA	DYNEGY MIDWEST GENERATION INC	1.80	0.61	11.95	3.69	0.21	0.07	0.00	0.04	15.81	3.40	0.35	0.72
017157	157045AAJ	CITY OF RED BUD	0.27	0.00	1.09	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017157	157851AAA	DYNEGY MIDWEST GENERATION INC	5.54	5.41	70.06	15.46	1.03	1.00	0.01	0.32	79.08	79.25	3.13	3.14
017161	161045AAV	MIDAMERICAN_ENERGY_CO-MOLINE_COMBUSTION	0.12	0.00	0.63	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017161	161807AAN	CORDOVA	0.06	0.47	0.86	1.42	0.24	0.01	0.00	0.04	0.01	0.00	0.07	0.04
017163	163060AAF	FREEBURG	0.15	0.00	0.38	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017163	163080AAC	MASCOUTAH POWER PLANT	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017163	ORIS50566	MILAM GAS RECOVERY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017167	167120AAO	CITY WATER LIGHT & POWER	1.02	1.11	34.75	4.03	0.18	0.17	0.05	0.07	55.22	9.93	0.24	1.64
017167	ORIS900117	GENERIC UNIT	0.00	0.95	0.00	2.66	0.00	0.11	0.00	0.06	0.00	15.97	0.00	5.18
017167	167120AGQ	CITY_WATER_LIGHT_&_POWER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017171	171851AAA	SOYLAND POWER COOPERATIVE INC	0.07	0.06	0.40	0.12	0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00
017173	173801AAA	RELIANT ENERGY SHELBY COUNTY	1.82	0.11	3.11	0.33	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
017173	173807AAG	HOLLAND ENERGY FACILITY	0.00	0.36	0.00	1.09	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.03
017179	179060ADB	AESCILCO	0.13	0.00	0.13	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.01	0.00

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2009 CO (tpd)	2002 NO_x (tpd)	2009 NO_x (tpd)	2002 VOC (tpd)	2009 VOC (tpd)	2002 NH_3 (tpd)	2009 NH_3 (tpd)	2002 SO_2 (tpd)	2009 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2009 $PM_{2.5}$ (tpd)
017179	179801AAA	MIDWEST GENERATION LLC	4.28	5.50	95.63	11.80	0.24	1.21	0.00	0.33	59.07	85.19	1.11	51.06
017179	179806AAB	TAZEWELL RECYCLING AND DISPOSAL FACILITY	0.21	0.00	0.24	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00
017183	183090AAE	DYNEGY_MIDWEST_GENERATIO N_INC	1.29	0.00	1.37	0.00	0.03	0.00	0.06	0.00	0.01	0.00	0.00	0.00
017183	183814AAA	DYNEGY MIDWEST GENERATION INC	0.42	0.22	6.59	3.69	0.05	0.03	0.00	0.01	49.11	12.36	0.42	0.29
017191	191010AAI	FAIRFIELD MUNICIPAL LIGHT	0.20	0.00	0.75	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017193	193010AAF	CITY OF CARMI	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017195	195045ABH	CITY OF ROCK FALLS	0.03	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017197	197030AAO	CRETE ENERGY PARK	0.34	0.07	0.24	0.22	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01
017197	197808AAG	ELWOOD ENERGY LLC	0.01	0.52	0.60	1.57	0.01	0.01	0.00	0.04	0.00	0.00	0.00	0.04
017197	197809AAO	MIDWEST GENERATION LLC	3.21	4.47	20.20	25.83	0.02	0.62	0.04	0.27	78.15	106.74	2.03	2.69
017197	197810AAK	MIDWEST GENERATION LLC	2.93	3.63	42.68	29.26	0.05	0.54	0.00	0.22	49.11	61.77	0.56	2.04
017197	197811AAH	LINCOLN GENERATING FACILITY	8.95	0.03	0.98	0.09	0.08	0.00	0.00	0.00	0.03	0.00	0.00	0.00
017197	197899AAB	UNIVERSITY PARK ENERGY LLC	1.00	0.04	6.60	0.13	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017197	197899AAC	UNIVERSITY PARK POWER	0.00	0.06	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017199	199856AAC	MARION	0.44	0.50	16.58	1.89	0.07	0.11	0.00	0.03	7.98	6.38	0.00	0.56
017201	201030BBY	INDECK ROCKFORD ENERGY CENTER	0.11	0.04	0.13	0.11	0.04	0.00	0.00	0.00	0.03	0.00	0.00	0.00
017201	ORIS55936	NRG ROCKFORD I ENERGY CENTER	0.00	0.02	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	**102.44**	**51.45**	**713.45**	**224.74**	**9.38**	**7.56**	**0.40**	**3.17**	**1311.66**	**943.80**	**13.27**	**105.21**

Table B-10. 2002 and 2012 Inventories – July Weekday Emissions for All EGU Point Sources in State of Missouri by Facility

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2012 CO (tpd)	2002 NO^x (tpd)	2012 NO_x (tpd)	2002 VOC (tpd)	2012 VOC (tpd)	2002 NH_3 (tpd)	2012 NH_3 (tpd)	2002 SO_2 (tpd)	2012 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2012 $PM_{2.5}$ (tpd)
029001	0006	AMERENUE-KIRKSVILLE COMBUSTION TURBINE	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029001	ORIS800129	GENERIC UNIT	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
029005	ORIS800229	GENERIC UNIT	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2012 CO (tpd)	2002 NO^x (tpd)	2012 NO_x (tpd)	2002 VOC (tpd)	2012 VOC (tpd)	2002 NH_3 (tpd)	2012 NH_3 (tpd)	2002 SO_2 (tpd)	2012 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2012 $PM_{2.5}$ (tpd)
029007	0012	AMERENUE-MEXICO COMBUSTION TURBINE	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
029007	0053	AUDRAIN GENERATING LLC-AUDRAIN GENERATIN	0.08	0.13	0.06	0.06	0.00	0.00	0.00	0.01	0.01	0.00	0.02	0.01
029013	0029	BUTLER MUNICIPAL POWER PLANT-BUTLER	0.00	0.00	0.03	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029019	0002	COLUMBIA MUNICIPAL POWER PLANT-COLUMBIA	0.63	1.34	1.83	3.55	0.01	0.01	0.00	0.01	5.23	35.51	0.00	0.00
029019	0004	UNIVERSITY OF MISSOURI - COLUMBIA-POWER	0.01	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
029019	0105	AMEREN ENERGY GENERATING COMPANY-COLUMBI	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029019	ORIS2123	Columbia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029021	0004	AQUILA INC-LAKE ROAD PLANT	0.52	0.33	12.39	8.07	0.08	0.07	0.01	0.02	10.36	7.50	0.06	0.04
029023	0050	POPLAR BLUFF MUNICIPAL UTILITIES-GENERAT	0.00	0.01	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029027	0007	FULTON POWER PLANT-FULTON	0.02	0.00	0.05	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029031	0061	JACKSON MUNICIPAL UTILITIES-JACKSON MUNI	0.02	0.00	0.09	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029031	0090	AMERENUE-VIADUCT COMBUSTION TURBINE	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029033	0022	CARROLLTON MUNICIPAL UTILITIES-CARROLLTO	0.01	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029037	0003	AQUILA INC-RALPH GREEN GENERATING PLANT	0.02	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
029037	0056	ARIES POWER PLANT-PLEASANT HILL	0.17	0.92	0.44	0.28	0.02	0.02	0.00	0.07	0.02	0.00	0.06	0.01
029041	0032	SALISBURY MUNICIPAL UTILITIES-BOARD OF P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029045	0026	KAHOKA ELECTRIC GENERATING PLANT-KAHOKA	0.01	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
029047	0096	INDEPENDENCE POWER AND LIGHT-MISSOURI CI	0.03	0.11	1.72	3.42	0.00	0.01	0.00	0.01	8.21	5.22	0.01	0.00
029051	0008	AMERENUE-MOREAU COMBUSTION TURBINE	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
029051	0049	AMERENUE-FAIRGROUNDS COMBUSTION TURBINE	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
029069	0034	MALDEN MUNICIPAL POWER & LIGHT-MALDEN MU	0.00	0.01	0.02	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029069	0063	KENNETT GENERATING PLANT-KENNETT GENERAT	0.00	0.01	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029069	0064	CAMPBELL MUNICIPAL POWER PLANT-CAMPBELL	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2012 CO (tpd)	2002 NO^x (tpd)	2012 NO_x (tpd)	2002 VOC (tpd)	2012 VOC (tpd)	2002 NH_3 (tpd)	2012 NH_3 (tpd)	2002 SO_2 (tpd)	2012 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2012 $PM_{2.5}$ (tpd)
029069	0066	ASSOCIATED ELECTRIC COOPERATIVE INC-ST.	0.03	0.78	0.11	0.34	0.01	0.02	0.00	0.06	0.00	0.00	0.01	0.01
029071	0003	AMERENUE-LABADIE PLANT	6.50	8.09	24.27	32.19	0.78	0.97	0.00	0.49	147.39	163.65	2.10	2.83
029077	0005	CITY UTILITIES OF SPRINGFIELD MISSOURI-J	0.90	1.03	19.73	13.88	0.11	0.12	0.00	0.06	19.96	23.17	0.59	0.59
029077	0039	CITY UTILITIES OF SPRINGFIELD MISSOURI-S	0.57	0.72	6.46	5.28	0.05	0.09	0.00	0.04	10.85	2.87	0.23	0.23
029077	0164	CITY UTILITIES OF SPRINGFIELD-N L MCCART	0.09	0.04	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029079	0010	TRENTON MUNICIPAL UTILITIES-TRENTON POWE	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029081	0015	BETHANY MUNICIPAL POWER PLANT-PLANT #1	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029083	0001	KANSAS CITY POWER & LIGHT CO-MONTROSE GE	1.53	2.24	20.26	25.89	0.18	0.27	0.00	0.13	56.70	45.30	0.51	0.51
029095	0021	TRIGEN ENERGY CORPORATION-GRAND AVENUE S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029095	0022	KANSAS CITY POWER & LIGHT CO-HAWTHORN ST	0.27	1.30	0.12	2.69	0.01	0.14	0.00	0.08	0.00	3.61	0.04	0.33
029095	0023	KANSAS CITY POWER & LIGHT CO-NORTHEAST S	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.01	0.00
029095	0031	AQUILA INC-SIBLEY GENERATING STATION	1.23	1.34	38.47	10.60	0.27	0.29	0.00	0.08	36.84	40.29	0.08	0.08
029095	0050	INDEPENDENCE POWER AND LIGHT-BLUE VALLEY	0.16	0.28	1.95	3.51	0.01	0.03	0.00	0.02	13.18	20.28	0.09	0.05
029095	0139	AQUILA INC-GREENWOOD ENERGY CENTER	0.29	0.08	1.15	0.08	0.01	0.00	0.00	0.01	0.00	0.00	0.07	0.04
029095	0222	INDEPENDENCE POWER AND LIGHT-SUB STATION	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029095	0223	INDEPENDENCE POWER AND LIGHT-SUB STATION	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029095	0224	INDEPENDENCE POWER AND LIGHT-SUB STATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029097	0001	EMPIRE DISTRICT ELECTRIC CO-ASBURY PLANT	0.57	0.82	19.43	2.20	0.08	0.18	0.00	0.05	13.90	16.55	0.01	0.01
029097	0062	EMPIRE DISTRICT ELECTRIC CO-EMPIRE ENERG	0.01	0.07	0.07	0.08	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
029097	0104	EMPIRE DISTRICT ELECTRIC CO-STATE LINE F	1.30	1.13	0.48	0.22	0.12	0.03	0.00	0.09	0.01	0.00	0.10	0.18
029097	0110	CARTHAGE WATER & ELECTRIC-CARTHAGE WATER	0.09	0.01	0.91	0.26	0.03	0.00	0.00	0.00	0.01	0.00	0.01	0.00
029099	0016	AMERENUE-RUSH ISLAND PLANT	3.52	3.91	12.47	13.48	0.42	0.47	0.00	0.23	72.74	78.96	1.09	1.31
029101	0051	ASSOCIATED ELECTRIC	0.00	0.06	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2012 CO (tpd)	2002 NO^x (tpd)	2012 NO_x (tpd)	2002 VOC (tpd)	2012 VOC (tpd)	2002 NH_3 (tpd)	2012 NH_3 (tpd)	2002 SO_2 (tpd)	2012 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2012 $PM_{2.5}$ (tpd)
		COOPERATIVE INC-HOLD												
029107	0038	HIGGINSVILLE MUNICIPAL POWER FACILITY-HI	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029107	0047	ODESSA MUNICIPAL POWER PLANT-ODESSA MUNI	0.01	0.00	0.04	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029117	0002	CHILLICOTHE MUNICIPAL UTILITIES-CHILLICO	0.00	0.04	0.02	1.12	0.00	0.00	0.00	0.00	0.00	1.70	0.00	0.05
029121	0004	MACON MUNICIPAL UTILITIES-MACON MUNICIPA	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029121	ORIS56127	Macon Energy Center	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029127	0053	PALMYRA BOARD OF PUBLIC WORKS-PALMYRA MU	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029137	0028	MONROE CITY POWER PLANT-MONROE CITY	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029143	0004	ASSOCIATED ELECTRIC COOPERATIVE INC-NEW	2.43	2.07	77.82	12.10	0.54	0.46	0.00	0.12	34.89	20.81	0.15	0.15
029147	0032	ASSOCIATED ELECTRIC COOPERATIVE INC-NODA	0.10	0.02	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
029151	0002	CENTRAL ELECTRIC POWER COOPERATIVE-CHAMO	0.20	0.20	6.76	5.55	0.04	0.04	0.00	0.01	9.65	6.21	0.03	0.03
029163	0047	AMERENUE-PENO CREEK ENERGY CENTER	0.02	0.01	0.30	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.05	0.01
029163	ORIS10207	Hercules Missouri Chemical Works	0.00	0.04	0.00	1.10	0.00	0.00	0.00	0.00	0.00	9.31	0.00	0.56
029165	0007	KANSAS CITY POWER & LIGHT CO-IATAN GENER	1.73	2.19	22.13	22.69	0.21	0.26	0.00	0.13	44.71	44.30	0.57	0.57
029165	0009	AQUILA INC-KCI ENERGY CENTER	0.01	0.02	0.05	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029171	0005	UNIONVILLE POWER & LIGHT-UNIONVILLE POWE	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029171	0015	ASSOCIATED ELECTRIC COOPERATIVE INC-UNIO	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029175	0001	ASSOCIATED ELECTRIC COOPERATIVE INC-THOM	3.06	3.73	53.15	22.70	0.50	0.59	0.00	0.22	46.11	75.48	0.48	0.48
029175	0010	AMERENUE-MOBERLY COMBUSTION TURBINE	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
029183	0001	AMERENUE-SIOUX PLANT	2.58	2.43	43.36	6.63	0.55	0.53	0.00	0.15	140.91	27.10	0.46	0.46
029189	0010	AMERENUE-MERAMEC PLANT	2.60	2.79	34.45	20.83	0.31	0.33	0.01	0.17	61.64	83.92	0.57	0.56
029189	0023	AMERENUE-HOWARD BEND COMBUSTION TURBINE	0.01	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.06	0.06	0.00	0.00
029195	0010	MARSHALL MUNICIPAL UTILITIES-MARSHALL MU	0.08	0.07	1.88	1.98	0.01	0.01	0.00	0.00	8.36	2.75	0.01	0.01

Region ID	Plant ID	Plant Name	2002 CO (tpd)	2012 CO (tpd)	2002 NO^x (tpd)	2012 NO_x (tpd)	2002 VOC (tpd)	2012 VOC (tpd)	2002 NH_3 (tpd)	2012 NH_3 (tpd)	2002 SO_2 (tpd)	2012 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2012 $PM_{2.5}$ (tpd)
029199	0020	MEMPHIS POWER PLANT-MEMPHIS POWER PLANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029201	0017	SIKESTON POWER STATION-SIKESTON POWER ST	0.76	0.74	6.27	5.67	0.01	0.09	0.00	0.04	17.74	1.53	0.27	0.27
029205	0011	SHELBINA POWER PLANT-SHELBINA POWER PLAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029207	0064	ASSOCIATED ELECTRIC COOPERATIVE INC-ESSE	0.00	0.06	0.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
029217	0034	AQUILA INC-NEVADA GAS TURBINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	**32.29**	**39.38**	**410.19**	**228.59**	**4.49**	**5.08**	**0.05**	**2.36**	**759.80**	**716.07**	**7.75**	**9.42**

Table B-11. 2002 and 2012 Inventories -- July Weekday Emissions for All EGU Point Sources in State of Illinois by Facility

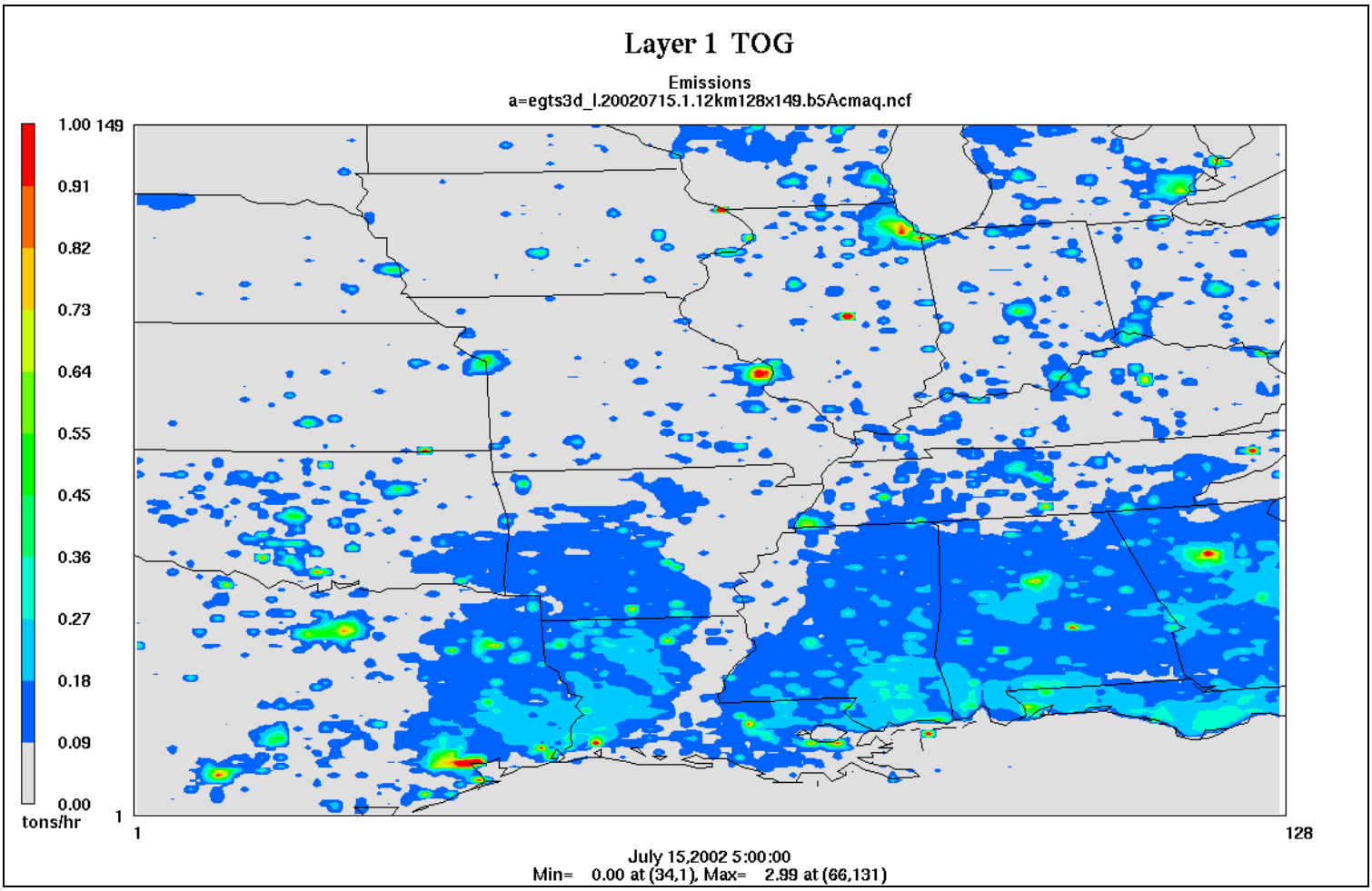
Region ID	Plant ID	Plant Name	2002 CO (tpd)	2012 CO (tpd)	2002 NO^x (tpd)	2012 NO_x (tpd)	2002 VOC (tpd)	2012 VOC (tpd)	2002 NH_3 (tpd)	2012 NH_3 (tpd)	2002 SO_2 (tpd)	2012 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2012 $PM_{2.5}$ (tpd)
017011	011085AAA	PRINCETON MUNCIPAL ELECTRIC UTILITY	0.30	0.00	1.05	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017011	ORIS800117	GENERIC UNIT	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017019	019010ADA	U_OF_I_-_CHAMPAIGNURBANA	0.83	0.00	2.50	0.00	0.03	0.00	0.01	0.00	0.91	0.00	0.03	0.00
017019	019065AAN	RANTOUL ELECTRIC GENERATING PLANT	0.20	0.00	1.25	0.10	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017021	021814AAB	KINCAID GENERATION LLC	2.52	2.69	59.82	8.12	0.55	0.59	0.00	0.16	50.41	34.69	0.28	2.74
017025	025803AAD	MEP FLORA POWER LLC	0.18	0.02	0.31	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017027	027025AAB	BREESE MUNICIPAL POWER PLANT	0.08	0.00	0.36	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017027	027030AAA	CARLYLE MUNICIPAL ELECTRIC PLANT	0.15	0.00	0.57	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017031	031333AAD	WINNETKA_ELECTRIC_PLANT	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017031	031600AIN	MIDWEST GENERATION LLC	2.03	1.58	11.93	6.04	0.01	0.19	0.00	0.09	27.20	31.86	0.91	0.93
017031	031600AMI	MIDWEST GENERATION LLC	0.65	0.95	13.51	3.63	0.01	0.11	0.00	0.06	13.40	19.12	0.36	0.56
017031	ORIS55296	Calumet Energy Team LLC	0.00	0.07	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
017031	031812AAQ	LAKE_LANDFILL	0.17	0.00	0.14	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017033	033801AAA	AMEREN ENERGY GENERATING CO	0.29	0.46	6.71	1.99	0.05	0.05	0.00	0.03	54.41	9.21	0.01	0.33
017039	ORIS941	Farmer City	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017041	041030ABG	TRIGEN-CINERGY SOLUTIONS	1.55	0.02	16.33	0.46	0.11	0.00	0.00	0.00	25.92	3.86	0.02	0.19
017043	043407AAF	RELIANT ENERGY AURORA	1.67	0.20	1.05	0.13	0.02	0.01	0.00	0.02	0.00	0.00	0.00	0.00
017043	043448AAB	BROWNING-FERRIS_GAS_SERVICE	0.93	0.00	0.41	0.00	0.16	0.00	0.00	0.00	0.06	0.00	0.00	0.00
017043	ORIS50326	ONDEO Nalco	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017053	053803AAL	AMEREN ENERGY GENERATING CO	3.60	0.01	7.25	0.01	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017057	057801AAA	AES DUCK CREEK	0.83	0.83	17.73	2.29	0.10	0.10	0.00	0.05	36.69	12.28	0.45	1.09
017063	063800AAJ	CALPINE (MORRIS) LLC	0.32	0.01	0.36	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
017063	063806AAF	MIDWEST_GENERATION_LLC	23.74	0.00	27.38	0.00	0.62	0.00	0.10	0.00	0.47	0.00	0.08	0.00
017065	065020AAW	MCLEANSBORO POWER PLANT	0.02	0.00	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017073	073050AAA	GENESEO MUNICIPAL UTILITIES	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017077	EGU0345	GRAND TOWER	0.00	0.12	0.00	0.12	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
017079	079808AAA	AMEREN ENERGY GENERATING CO	3.25	3.25	15.85	14.11	0.44	0.39	0.00	0.19	54.29	65.46	0.28	2.06
017089	089425AAC	ROCKY_ROAD_POWER_LLC	0.08	0.00	0.09	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00
017089	089808AAA	SETTLERS_HILL_RDFMIDWAY_LAND FILL	0.08	0.00	0.13	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00
017091	091809AAF	KANKAKEE_REYCLYING_&_DISPOSA L	0.13	0.00	0.17	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00

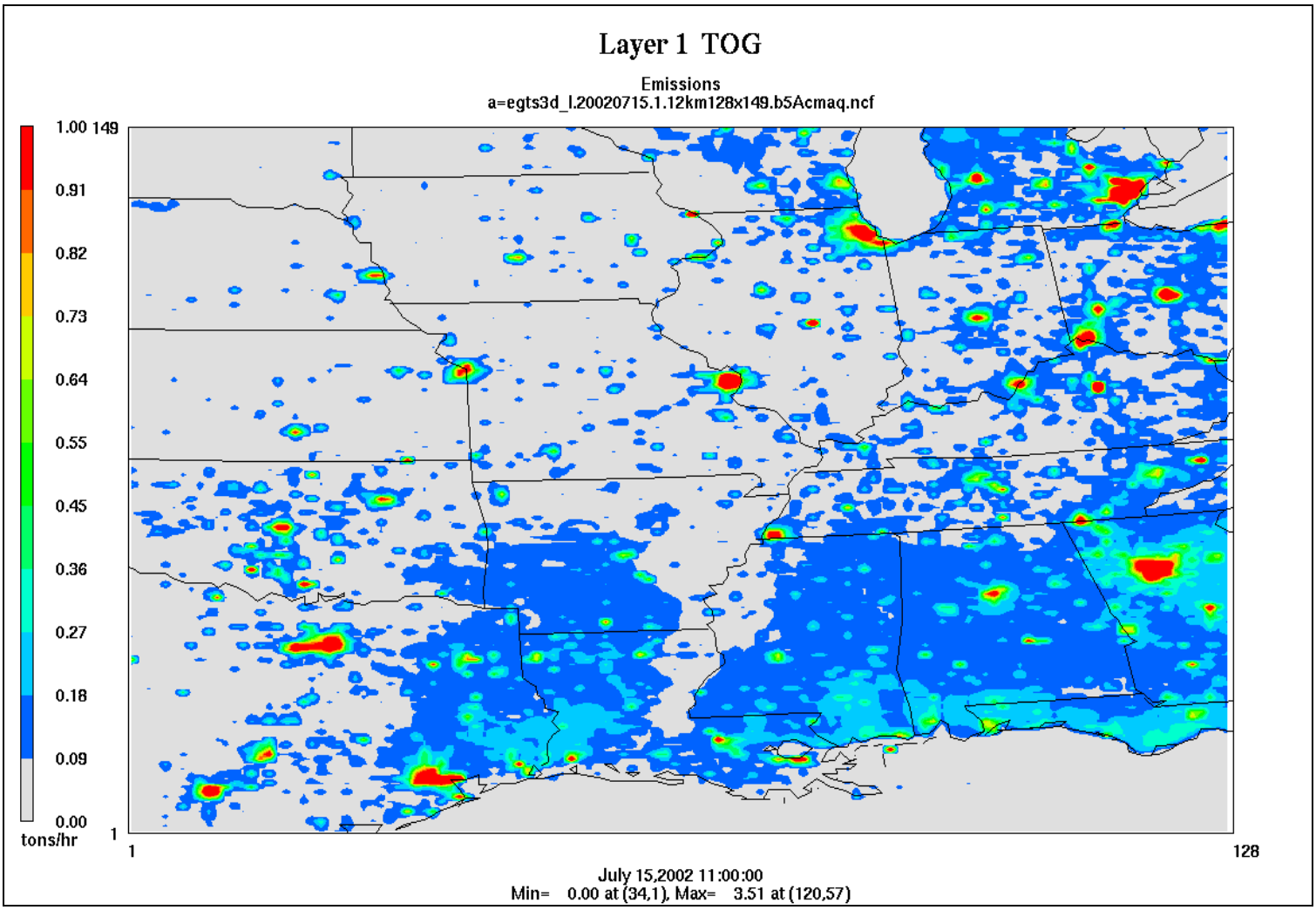
Region ID	Plant ID	Plant Name	2002 CO (tpd)	2012 CO (tpd)	2002 NO^x (tpd)	2012 NO_x (tpd)	2002 VOC (tpd)	2012 VOC (tpd)	2002 NH_3 (tpd)	2012 NH_3 (tpd)	2002 SO_2 (tpd)	2012 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2012 $PM_{2.5}$ (tpd)
017093	ORIS55131	Kendall County Generation Facility	0.00	0.73	0.00	0.34	0.00	0.02	0.00	0.06	0.00	0.00	0.00	0.00
017097	097190AAC	MIDWEST GENERATION LLC	1.99	2.04	16.22	7.81	0.02	0.25	0.00	0.12	35.80	41.20	0.66	1.26
017097	097200ABB	ZION ENERGY LLC	0.09	0.07	0.35	0.04	0.05	0.00	0.00	0.01	0.03	0.00	0.00	0.00
017099	099085AAH	CITY_OF_PERU_GENERATING_STATION	0.12	0.00	0.45	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017099	099816AAB	DYNEGY_MIDWEST_GENERATION_INC	0.01	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017103	103817AAH	LEE_GENERATING_STATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017107	107816AAK	CENTRAL_ILLINOIS_LIGHT_CO	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017109	109015AAH	BUSHNELL MUNICIPAL ELECTRIC LIGHT & POWE	0.21	0.00	0.84	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017119	119020AAE	DYNEGY MIDWEST GENERATION INC	1.03	1.44	7.52	5.00	0.13	0.17	0.00	0.09	23.08	29.00	0.19	0.91
017119	119055AAD	HIGHLAND ELECTRIC LIGHT PLANT	0.14	0.00	0.52	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017119	119105AAA	UNION ELECTRIC CO	2.78	0.12	3.43	0.12	0.04	0.00	0.02	0.01	0.00	0.00	0.01	0.00
017119	119813AAC	DYNEGY_MIDWEST_GENERATION_INC	0.30	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017121	ORIS55204	Kinmundy	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017125	125804AAB	DYNEGY MIDWEST GENERATION INC	0.94	1.45	12.93	5.03	0.11	0.17	0.06	0.09	42.47	29.18	0.18	1.16
017127	127855AAC	ELECTRIC ENERGY INC	3.40	2.88	15.99	12.53	0.48	0.35	0.00	0.17	63.99	58.14	0.78	1.82
017127	127899AAA	MIDWEST_ELECTRIC_POWER_INC	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017133	133030AAO	WATERLOO CITY LIGHT PLANT	0.90	0.00	1.66	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017135	135803AAA	AMEREN ENERGY GENERATING CO	3.89	2.15	81.68	5.72	0.61	0.47	0.00	0.13	153.64	27.67	0.07	2.13
017137	137805AAA	AMEREN ENERGY GENERATING CO	1.18	1.03	27.00	4.46	0.83	0.12	0.00	0.06	221.65	20.71	0.52	0.80
017139	139030AAE	SULLIVAN POWER PLANT	0.29	0.00	0.88	0.03	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017141	141017AAE	GAS_RECOVERY_SYSTEMS_OF_ILLINOIS_INC	0.28	0.00	0.07	0.00	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00
017141	141050AAH	ROCHELLE MUNICIPAL DIESEL PLANT	0.49	0.00	1.93	0.02	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017141	141050AAV	ROCHELLE_MUNICIPAL_DIESEL_PLANT	0.95	0.00	3.74	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017141	ORIS961	South Main Street	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017143	143065AMW	AES ED EDWARDS STATION	0.05	2.09	0.22	6.82	0.00	0.25	0.00	0.13	0.00	42.19	0.00	1.50
017143	143804AAB	CENTRAL_ILLINOIS_LIGHT_CO	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017143	143805AAG	AES_ED_EDWARDS_STATION	1.28	0.00	27.31	0.00	0.15	0.00	0.00	0.00	109.26	0.00	0.51	0.00
017145	145842AAA	AMEREN ENERGY GENERATING CO	3.96	0.01	5.47	0.01	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017147	ORIS55496	Goose Creek Energy Center	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017149	149817AAB	SOYLAND POWER COOP INC	0.07	0.06	3.32	1.89	0.01	0.01	0.00	0.00	4.22	15.95	0.00	0.86
017155	155010AAA	DYNEGY MIDWEST GENERATION INC	1.80	0.98	11.95	3.40	0.21	0.12	0.00	0.06	15.81	19.72	0.35	0.60

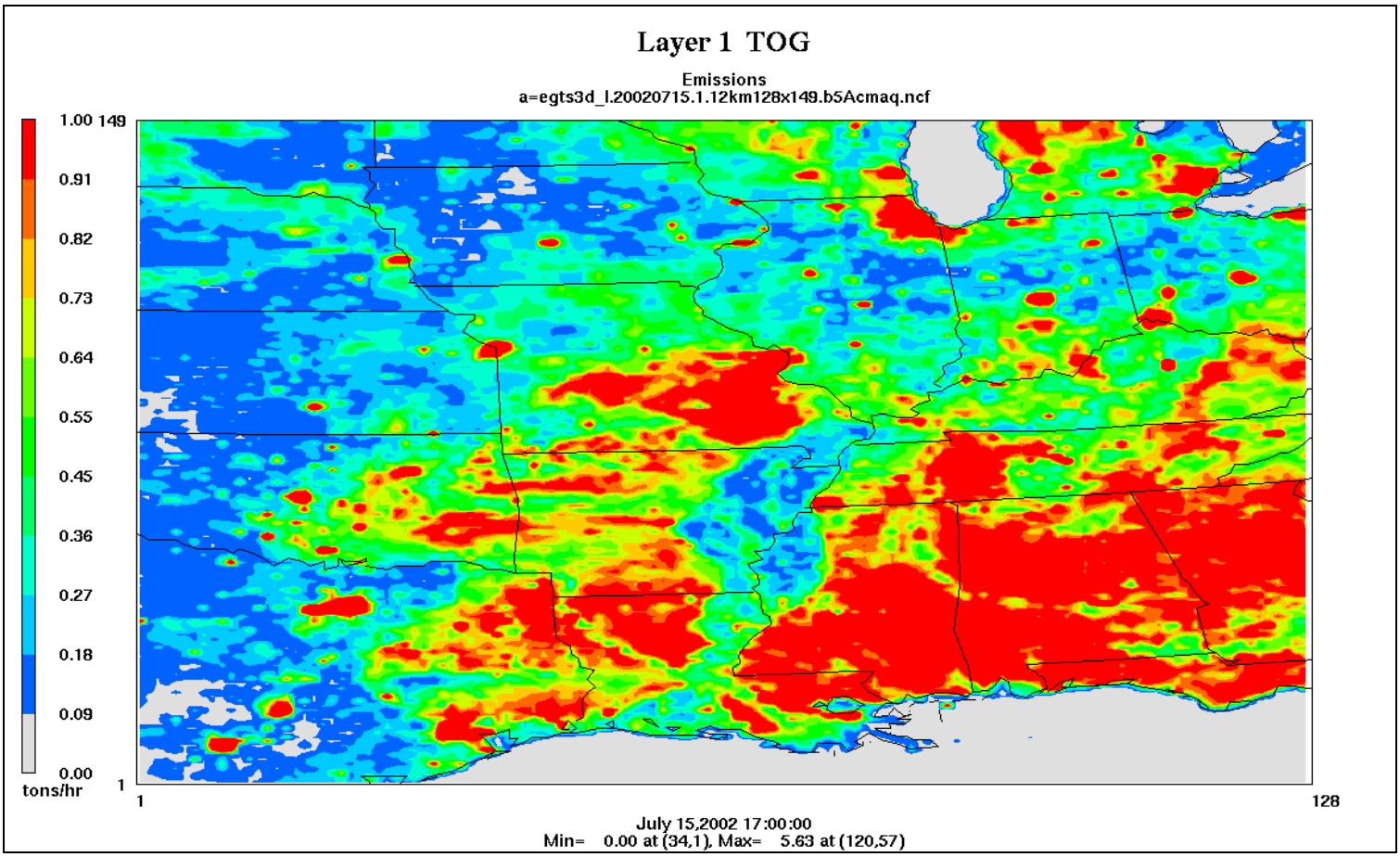
Region ID	Plant ID	Plant Name	2002 CO (tpd)	2012 CO (tpd)	2002 NO^x (tpd)	2012 NO_x (tpd)	2002 VOC (tpd)	2012 VOC (tpd)	2002 NH_3 (tpd)	2012 NH_3 (tpd)	2002 SO_2 (tpd)	2012 SO_2 (tpd)	2002 $PM_{2.5}$ (tpd)	2012 $PM_{2.5}$ (tpd)
017157	157045AAJ	CITY_OF_RED_BUD	0.27	0.00	1.09	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017157	157851AAA	DYNEGY MIDWEST GENERATION INC	5.54	5.47	70.06	19.03	1.03	1.03	0.01	0.33	79.08	19.03	3.13	4.32
017161	161045AAV	MIDAMERICAN ENERGY CO-MOLINE COMBUSTION	0.12	0.01	0.63	0.12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017161	161807AAN	CORDOVA ENERGY CENTER	0.06	0.42	0.86	0.08	0.24	0.01	0.00	0.03	0.01	0.00	0.07	0.00
017163	163060AAF	VILLAGE OF FREEBURG-POWER PLANT	0.15	0.00	0.38	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017163	163080AAC	MASCOUTAH POWER PLANT	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017167	167120AAO	CITY WATER LIGHT & POWER	1.02	0.86	34.75	3.31	0.18	0.12	0.05	0.05	55.22	6.03	0.24	1.34
017167	167120AGQ	CITY WATER LIGHT & POWER	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017167	ORIS963	Dallman	0.00	0.39	0.00	1.08	0.00	0.05	0.00	0.02	0.00	2.08	0.00	0.40
017171	171851AAA	SOYLAND_POWER_COOPERATIVE_INC	0.07	0.00	0.40	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00
017173	173801AAA	RELIANT ENERGY SHELBY COUNTY	1.82	0.08	3.11	0.14	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
017173	EGU0366	HOLLAND ENERGY FACILITY	0.00	0.28	0.00	0.12	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00
017179	179060ADB	AESCILCO	0.13	0.00	0.13	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.01	0.00
017179	179801AAA	MIDWEST GENERATION LLC	4.28	4.34	95.63	18.00	0.24	0.96	0.00	0.26	59.07	94.90	1.11	2.35
017179	179806AAB	TAZEWELL_RECYCLING_AND_DISPOSAL_FACILITY	0.21	0.00	0.24	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00
017183	183090AAE	DYNEGY MIDWEST GENERATION INC	1.29	0.01	1.37	0.01	0.03	0.00	0.06	0.00	0.01	0.00	0.00	0.00
017183	183814AAA	DYNEGY MIDWEST GENERATION INC	0.42	0.51	6.59	2.25	0.05	0.06	0.00	0.03	49.11	12.97	0.42	0.39
017191	191010AAI	FAIRFIELD MUNICIPAL LIGHT	0.20	0.00	0.75	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017193	193010AAF	CITY OF CARMI	0.03	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017195	195045ABH	CITY_OF_ROCK_FALLS	0.03	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017197	197030AAO	CRETE_ENERGY_PARK	0.34	0.00	0.24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017197	197808AAG	ELWOOD ENERGY LLC	0.01	0.06	0.60	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
017197	197809AAO	MIDWEST GENERATION LLC	3.21	4.16	20.20	15.91	0.02	0.59	0.04	0.25	78.15	83.87	2.03	2.42
017197	197810AAK	MIDWEST GENERATION LLC	2.93	2.19	42.68	8.36	0.05	0.26	0.00	0.13	49.11	44.11	0.56	1.30
017197	197811AAH	LINCOLN_GENERATING_FACILITY	8.95	0.00	0.98	0.00	0.08	0.00	0.00	0.00	0.03	0.00	0.00	0.00
017197	197899AAB	UNIVERSITY PARK ENERGY LLC	1.00	0.14	6.60	0.05	0.04	0.00	0.00	0.01	0.00	0.00	0.00	0.00
017199	199856AAC	SOUTHERN ILLINOIS POWER COOP	0.44	0.58	16.58	2.65	0.07	0.12	0.00	0.05	7.98	12.69	0.00	0.61
017201	201030AXQ	MIDWEST GENERATION LLC	0.00	0.21	0.00	0.12	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00
017201	201030BBY	ALLIANT-SBG-9805	0.11	0.00	0.13	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.00	0.00
017201	ORIS55936	NRG Rockford II Energy Center	0.00	0.03	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	**102.44**	**45.08**	**713.45**	**162.22**	**9.38**	**6.61**	**0.40**	**2.77**	**1311.66**	**735.91**	**13.27**	**32.09**

Appendix B3:

Example Emissions Spatial Plots from the 2002 Base 5 Model Validation Inventory




Layer 1 TOG
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
1.00 149
0.91
0.82
0.73
0.64
0.55
0.45
0.36
0.27
0.18
0.09
0.00
tons/hr
1
1
128
July 15,2002 11:00:00
Min= 0.00 at (34,1), Max= 3.51 at (120,57)


Layer 1 TOG
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
1.00
0.91
0.82
0.73
0.64
0.55
0.45
0.36
0.27
0.18
0.09
0.00
tons/hr
149
1
1
128
July 15,2002 17:00:00
Min= 0.00 at (34,1), Max= 5.63 at (120,57)

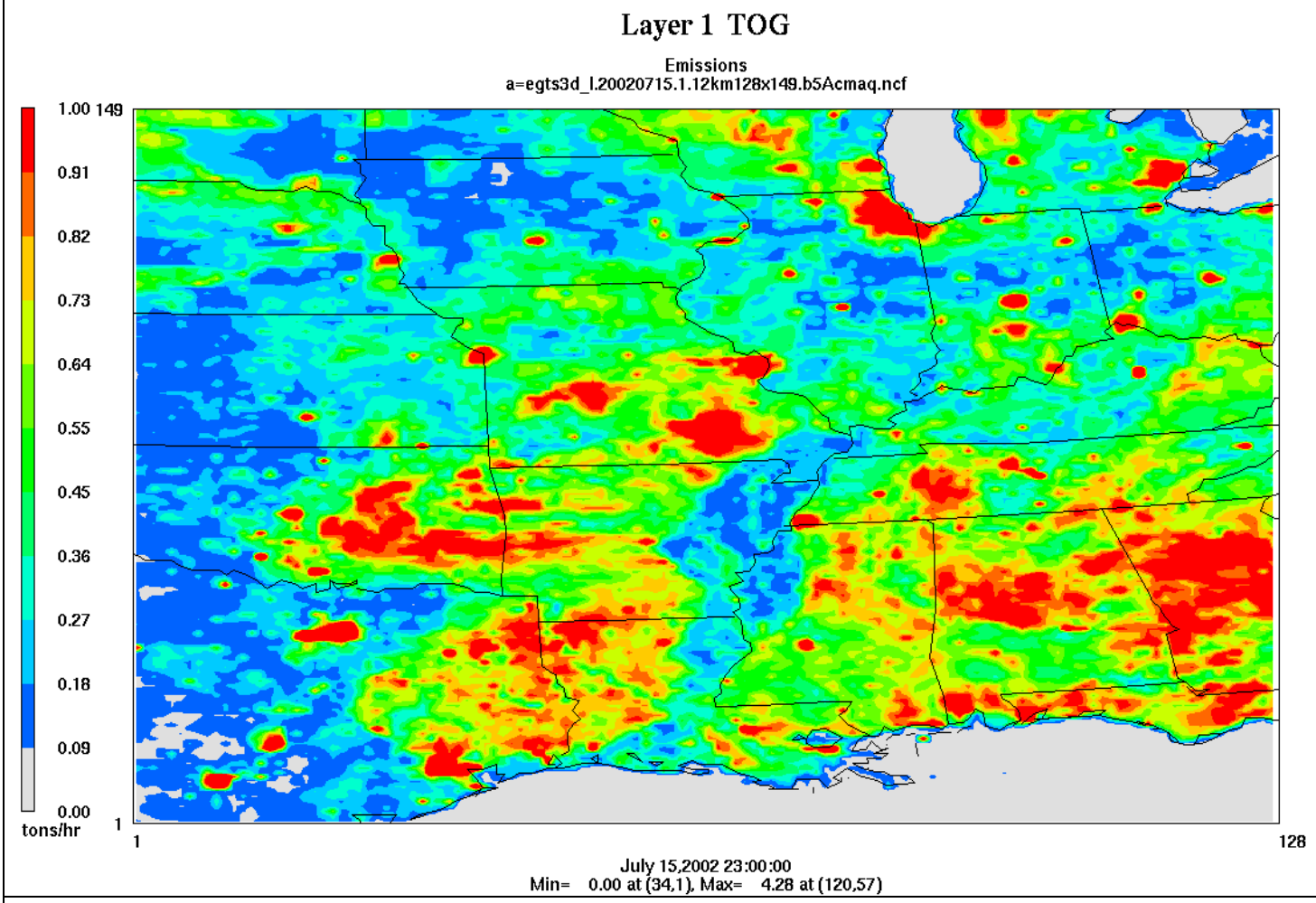
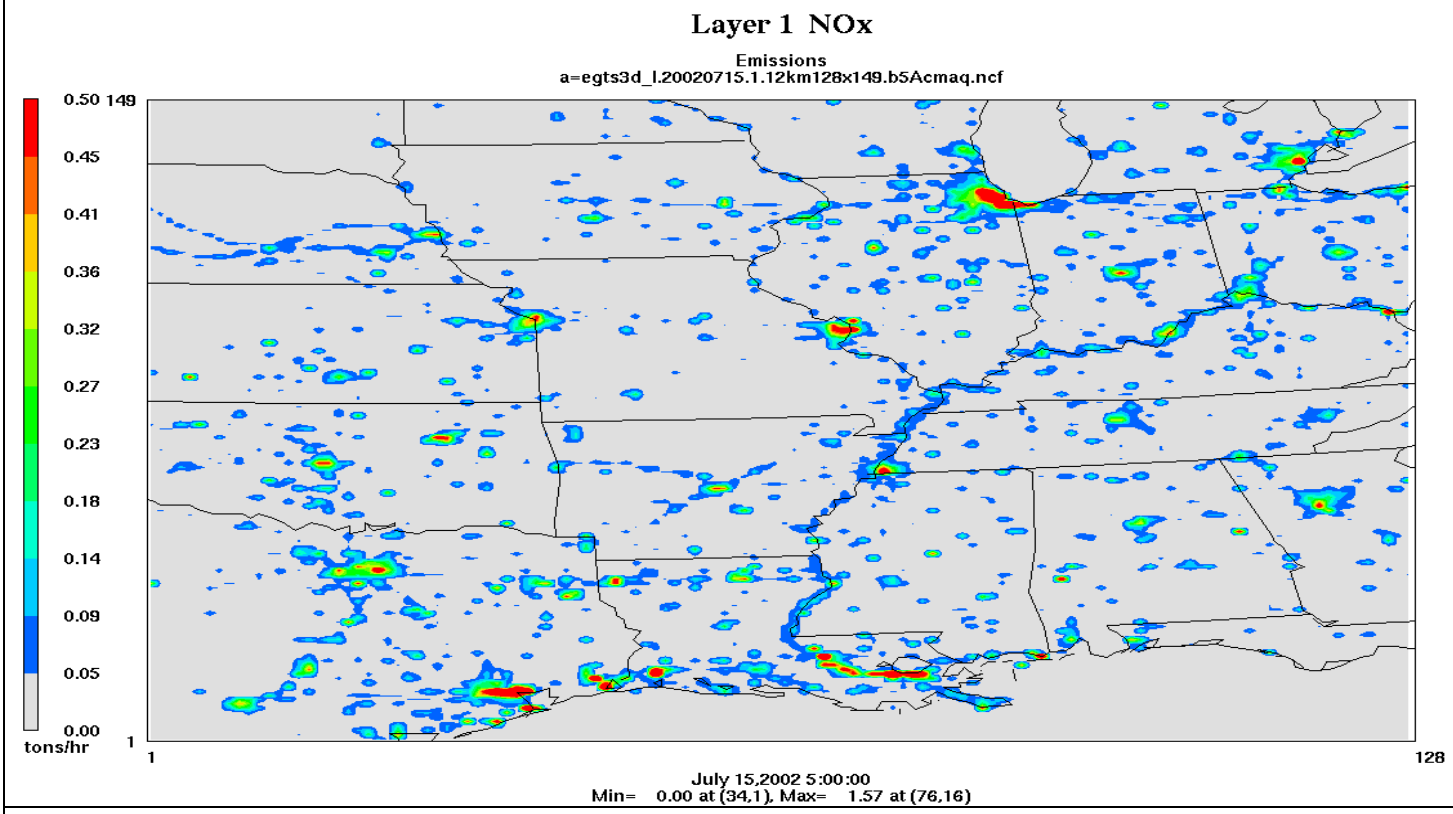
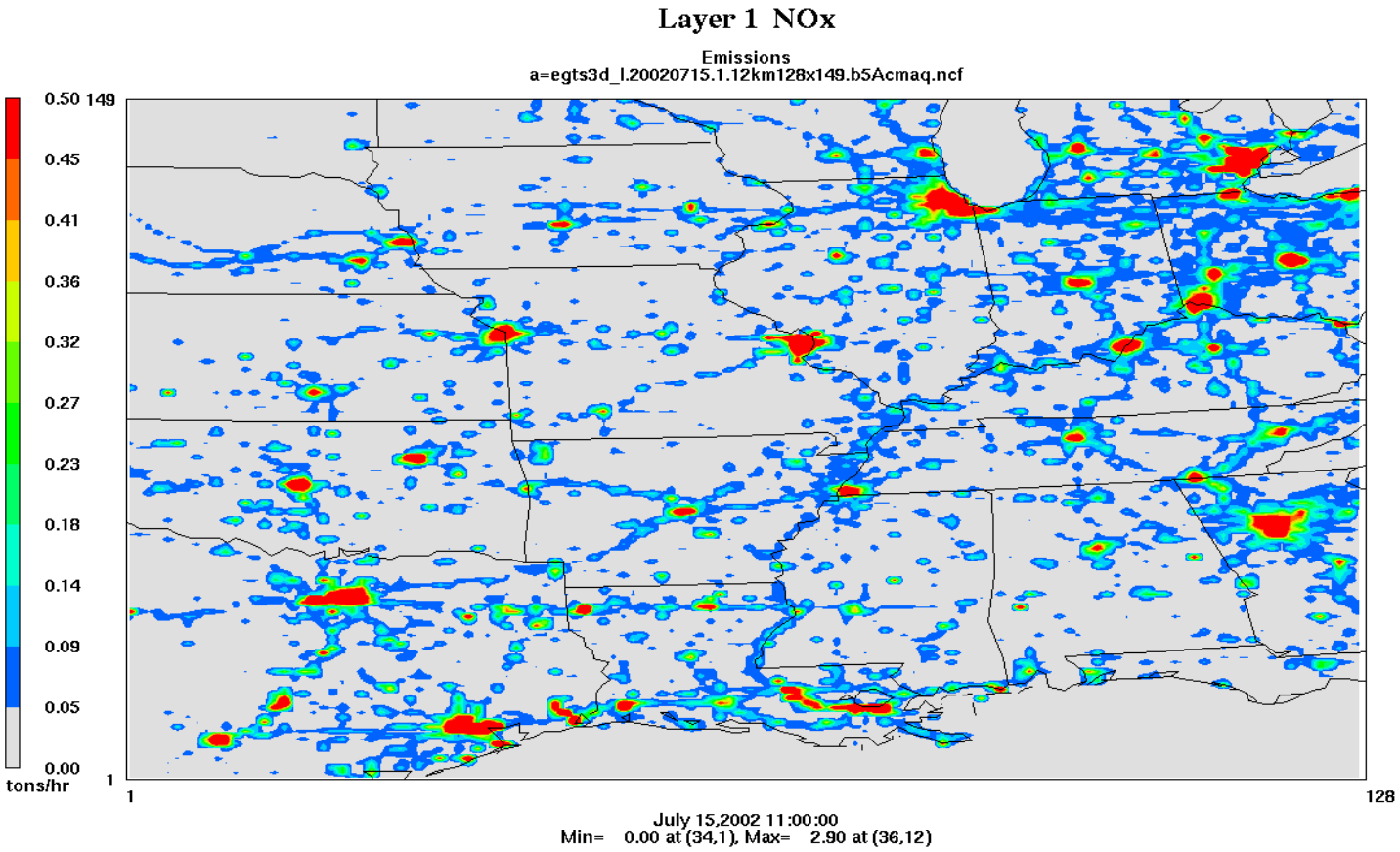
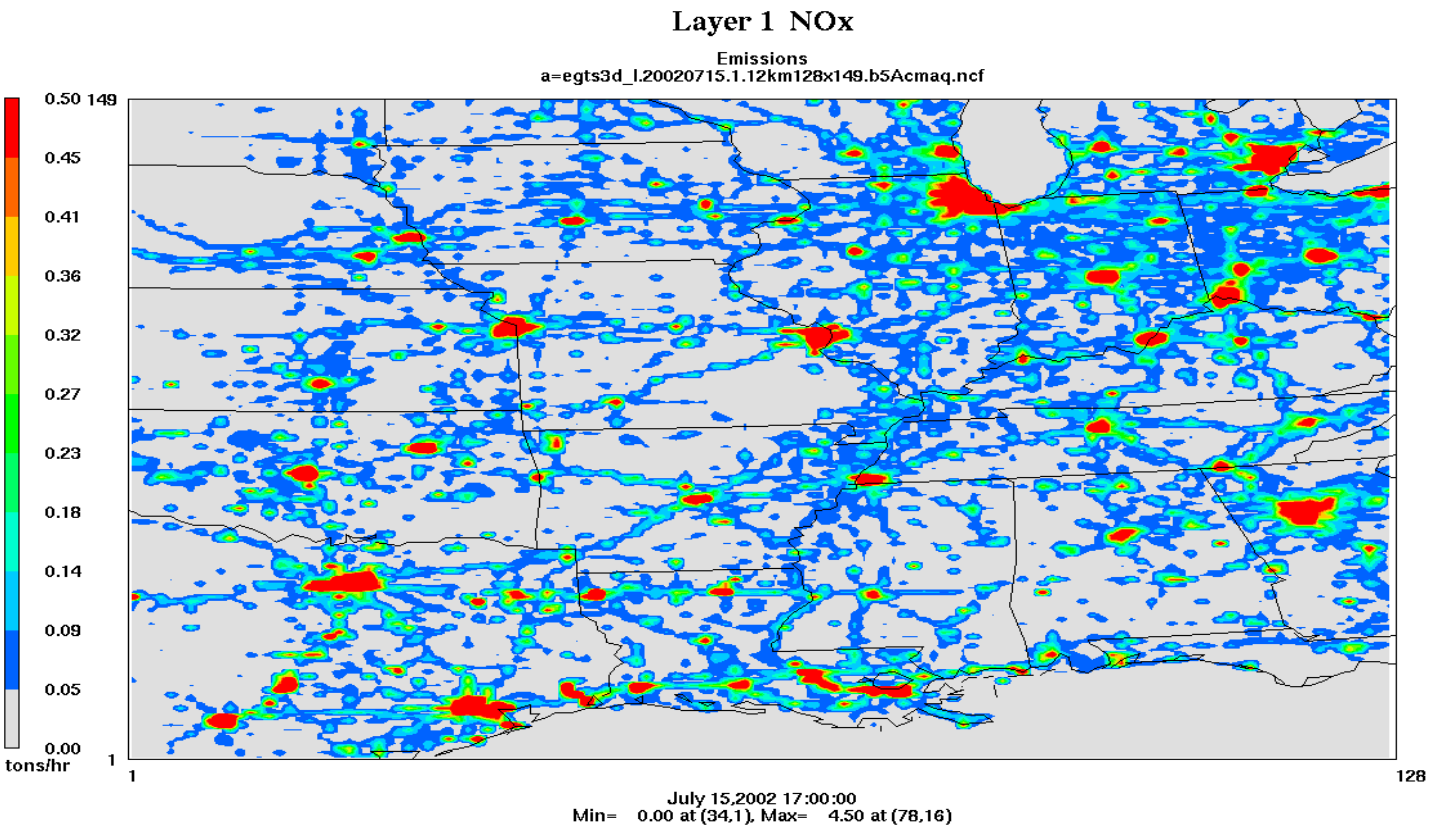


Figure B-1. Example spatial distribution of TOG emissions for merged low-level sources in the full 12 km domain at midnight [0500] (first), 6am [1100] (second), noon [1700] (third) and 6pm [2300] (last) on a typical July Monday (07/15/02).


Layer 1 NOx
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.50 149
0.45
0.41
0.36
0.32
0.27
0.23
0.18
0.14
0.09
0.05
0.00
tons/hr
1
1
128
July 15,2002 5:00:00
Min= 0.00 at (34,1), Max= 1.57 at (76,16)


Layer 1 NOx
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.50 149
0.45
0.41
0.36
0.32
0.27
0.23
0.18
0.14
0.09
0.05
0.00
tons/hr
1
1
128
July 15,2002 11:00:00
Min= 0.00 at (34,1), Max= 2.90 at (36,12)


Layer 1 NOx
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.50 149
0.45
0.41
0.36
0.32
0.27
0.23
0.18
0.14
0.09
0.05
0.00
tons/hr
1
1
128
July 15,2002 17:00:00
Min= 0.00 at (34,1), Max= 4.50 at (78,16)

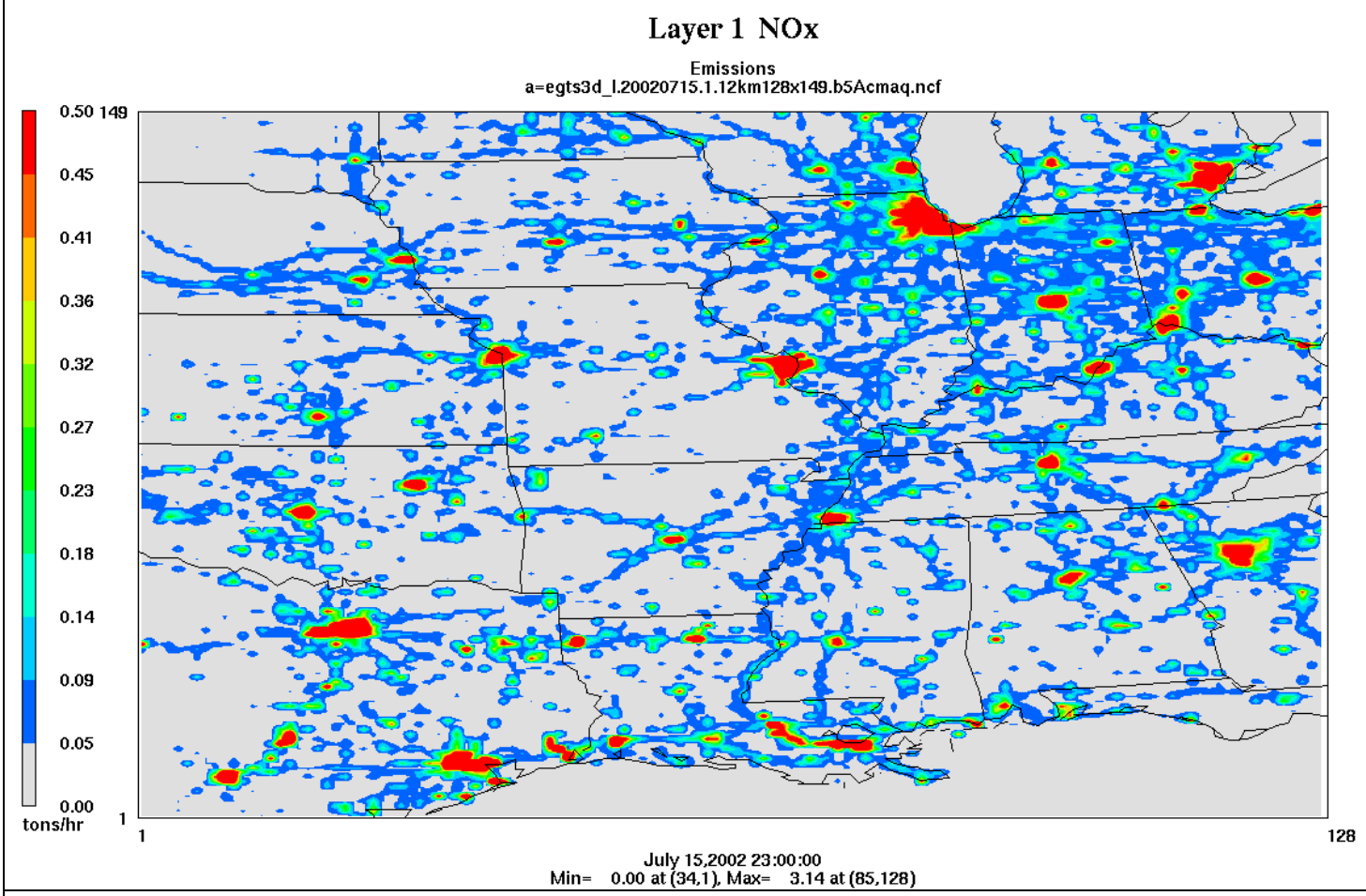
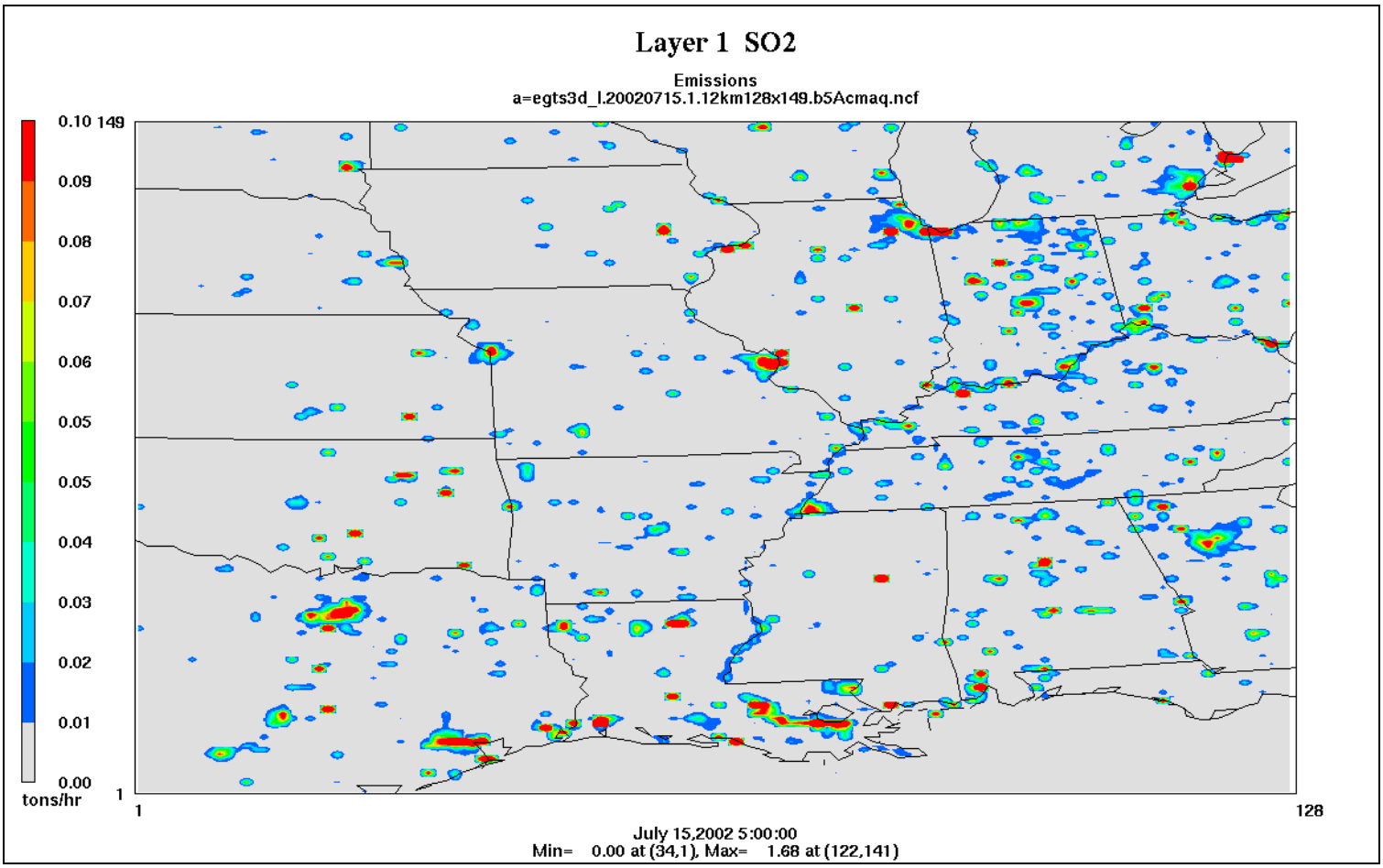
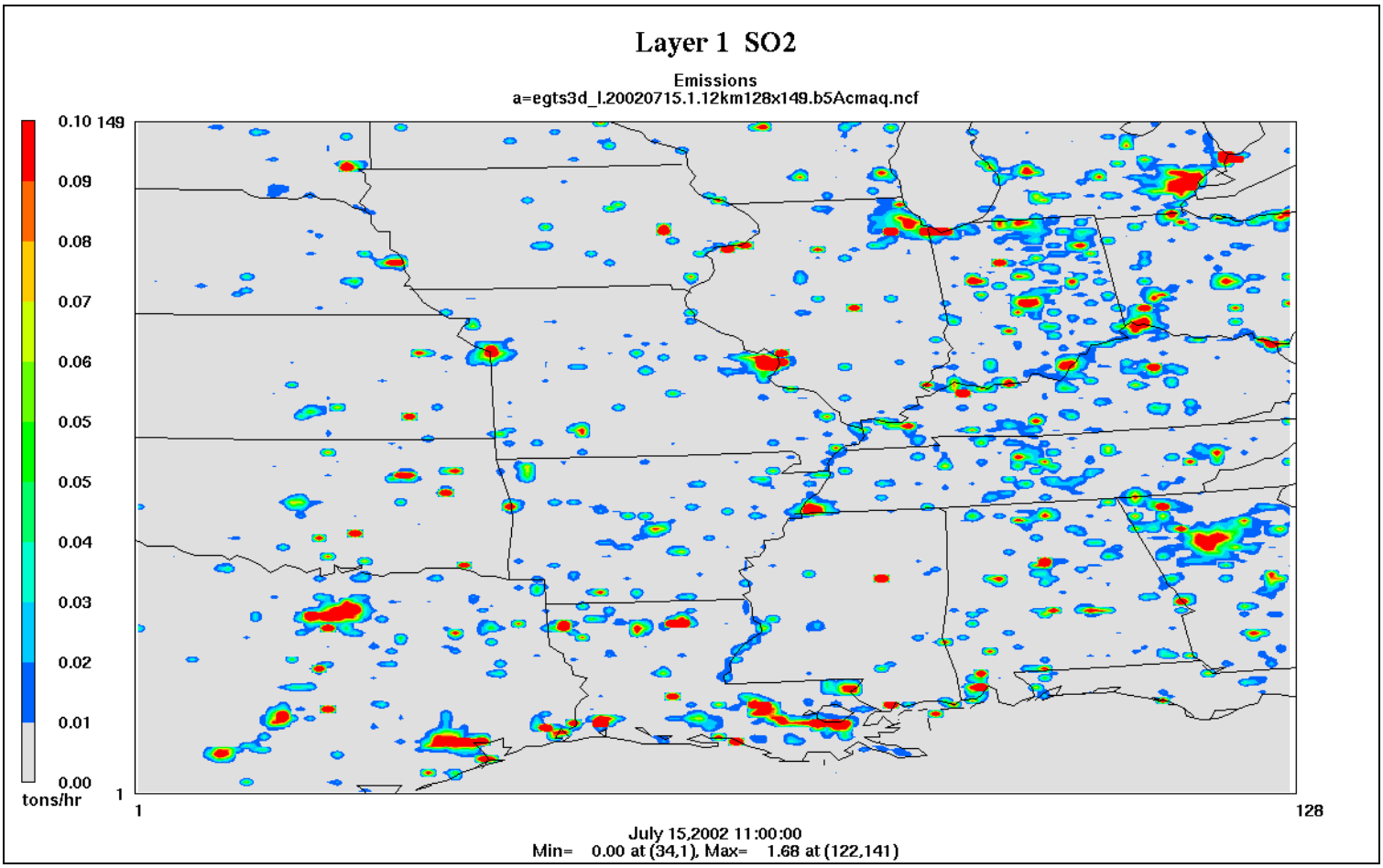
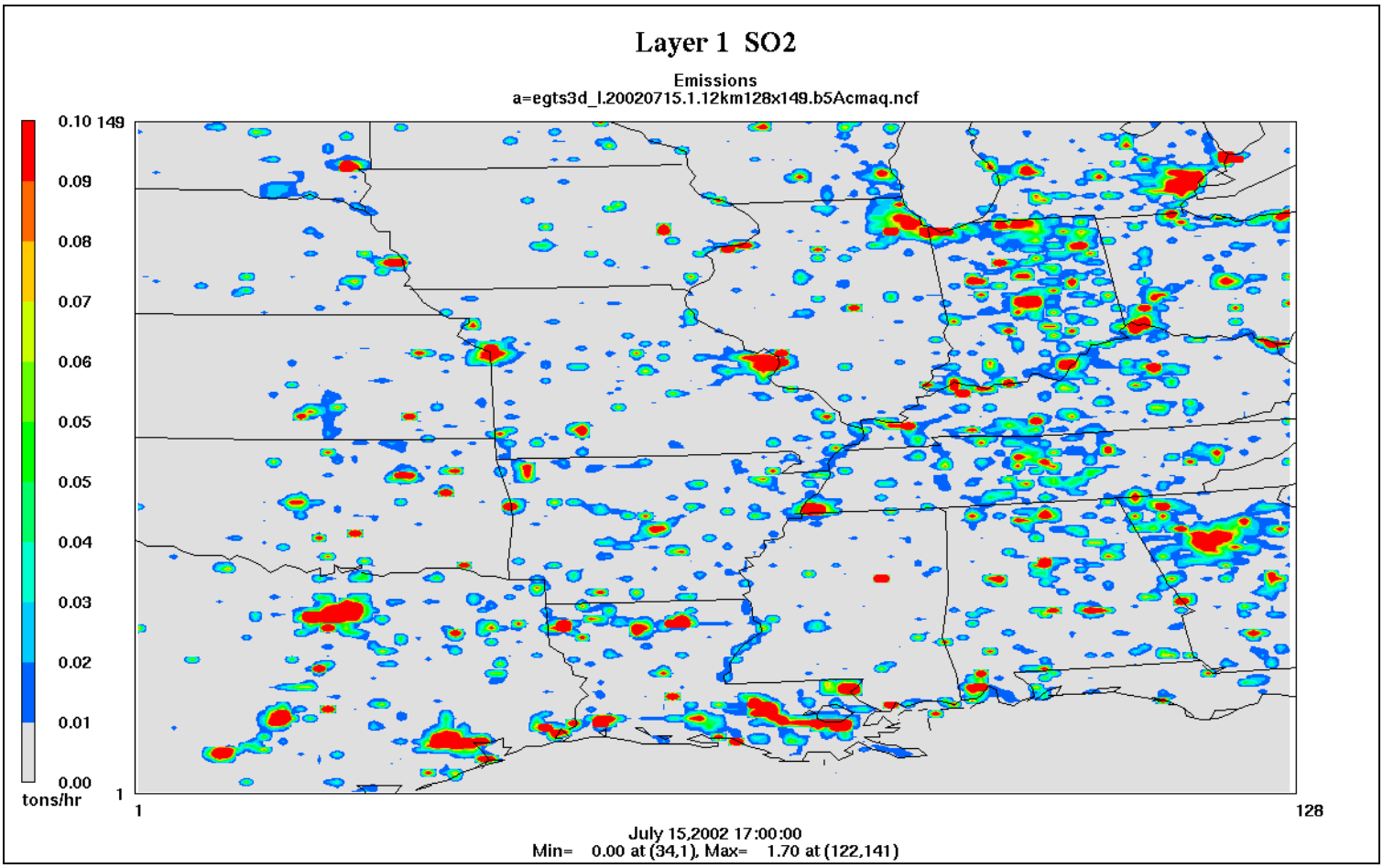


Figure B-2. Example spatial distribution of NOx emissions for merged low-level sources in the full 12 km domain at midnight [0500] (first), 6am [1100] (second), noon [1700] (third) and 6pm [2300] (last) on a typical July Monday (07/15/02).


Layer 1 SO2
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.10 149
0.09
0.08
0.07
0.06
0.05
0.05
0.04
0.03
0.02
0.01
0.00
tons/hr
1
1
128
July 15,2002 5:00:00
Min= 0.00 at (34,1), Max= 1.68 at (122,141)


Layer 1 SO2
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.10 149
0.09
0.08
0.07
0.06
0.05
0.05
0.04
0.03
0.02
0.01
0.00
tons/hr
1
1
128
July 15,2002 11:00:00
Min= 0.00 at (34,1), Max= 1.68 at (122,141)


Layer 1 SO2
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.10 149
0.09
0.08
0.07
0.06
0.05
0.05
0.04
0.03
0.02
0.01
0.00
tons/hr
1
1
128
July 15,2002 17:00:00
Min= 0.00 at (34,1), Max= 1.70 at (122,141)

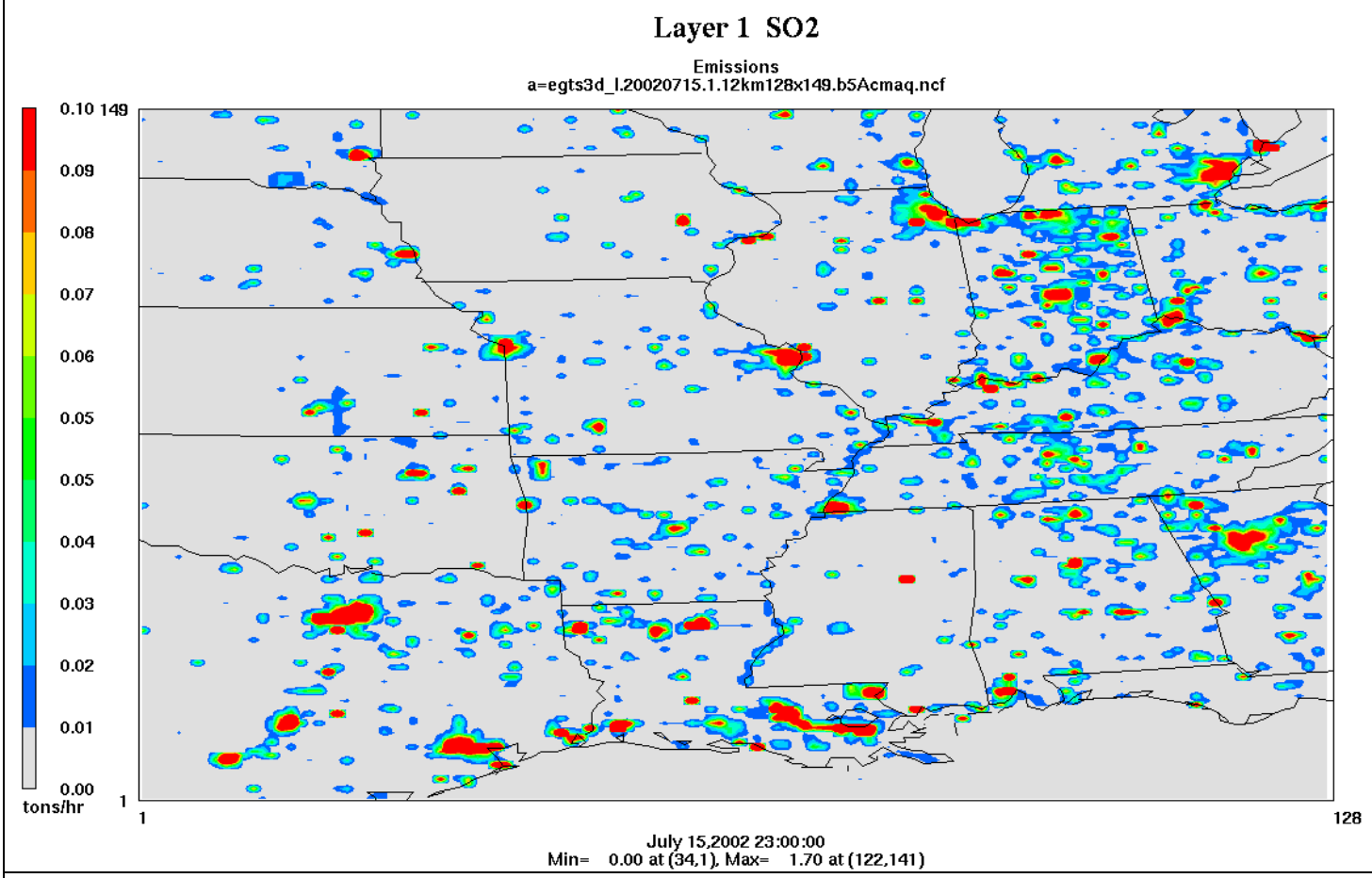
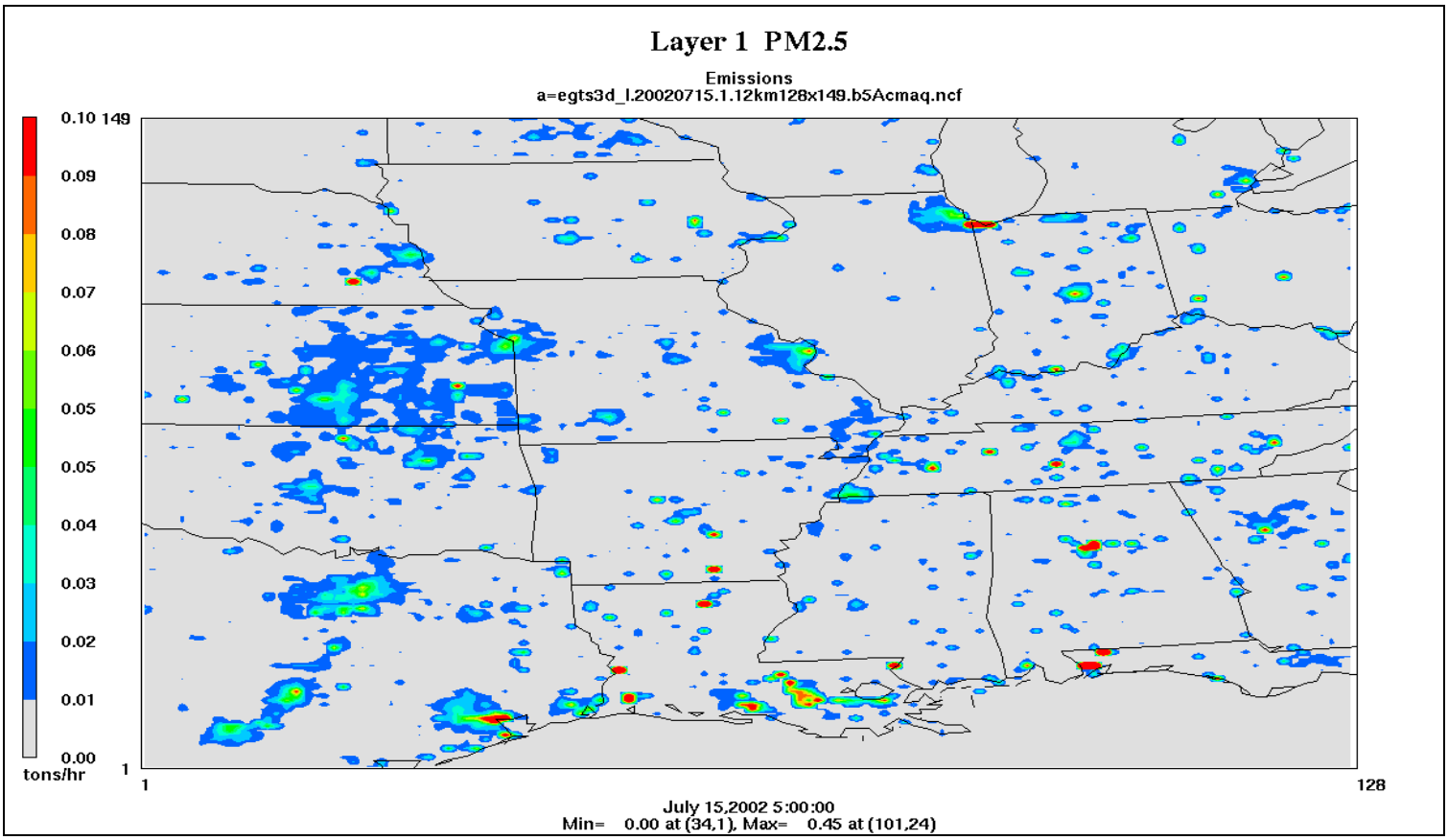
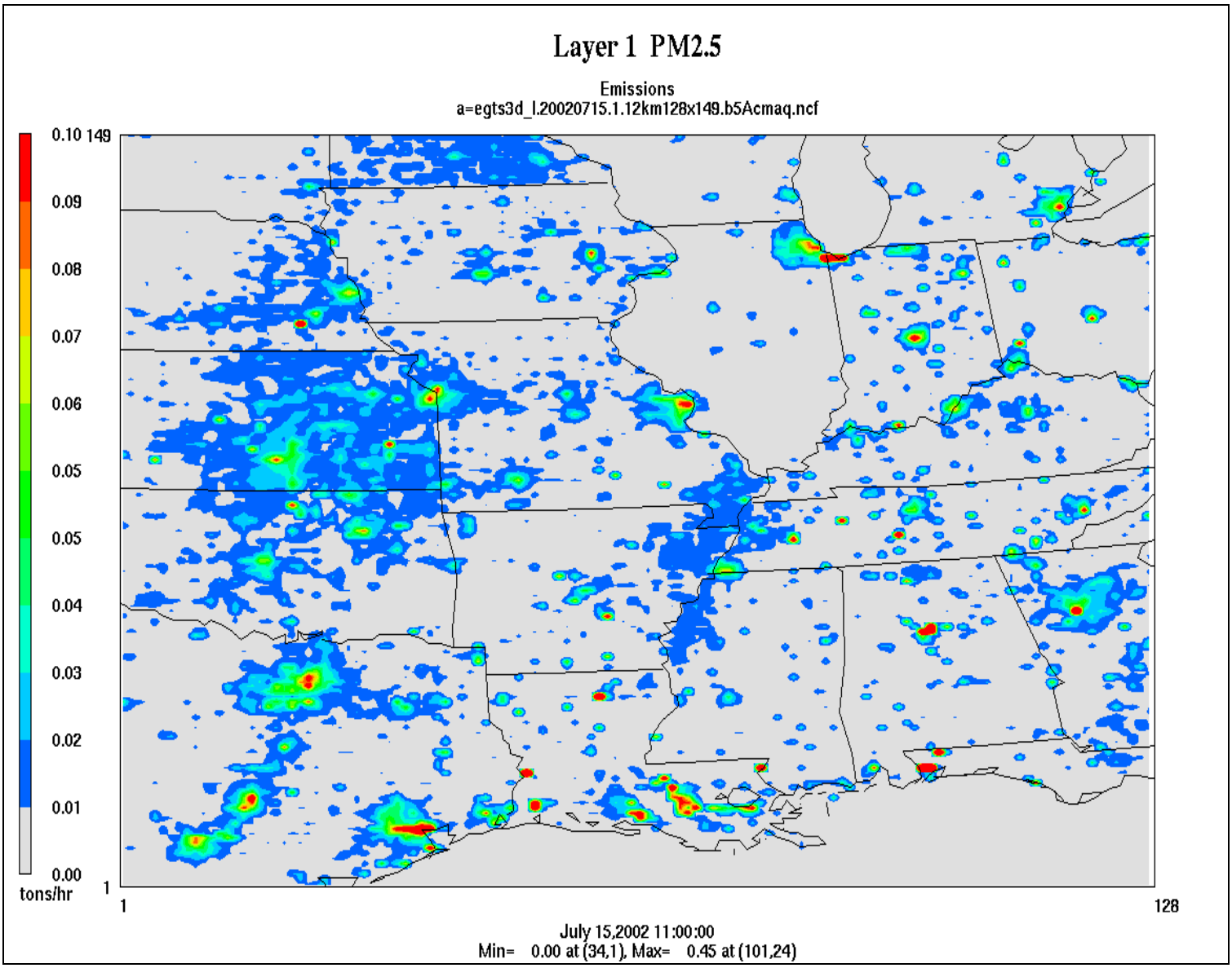
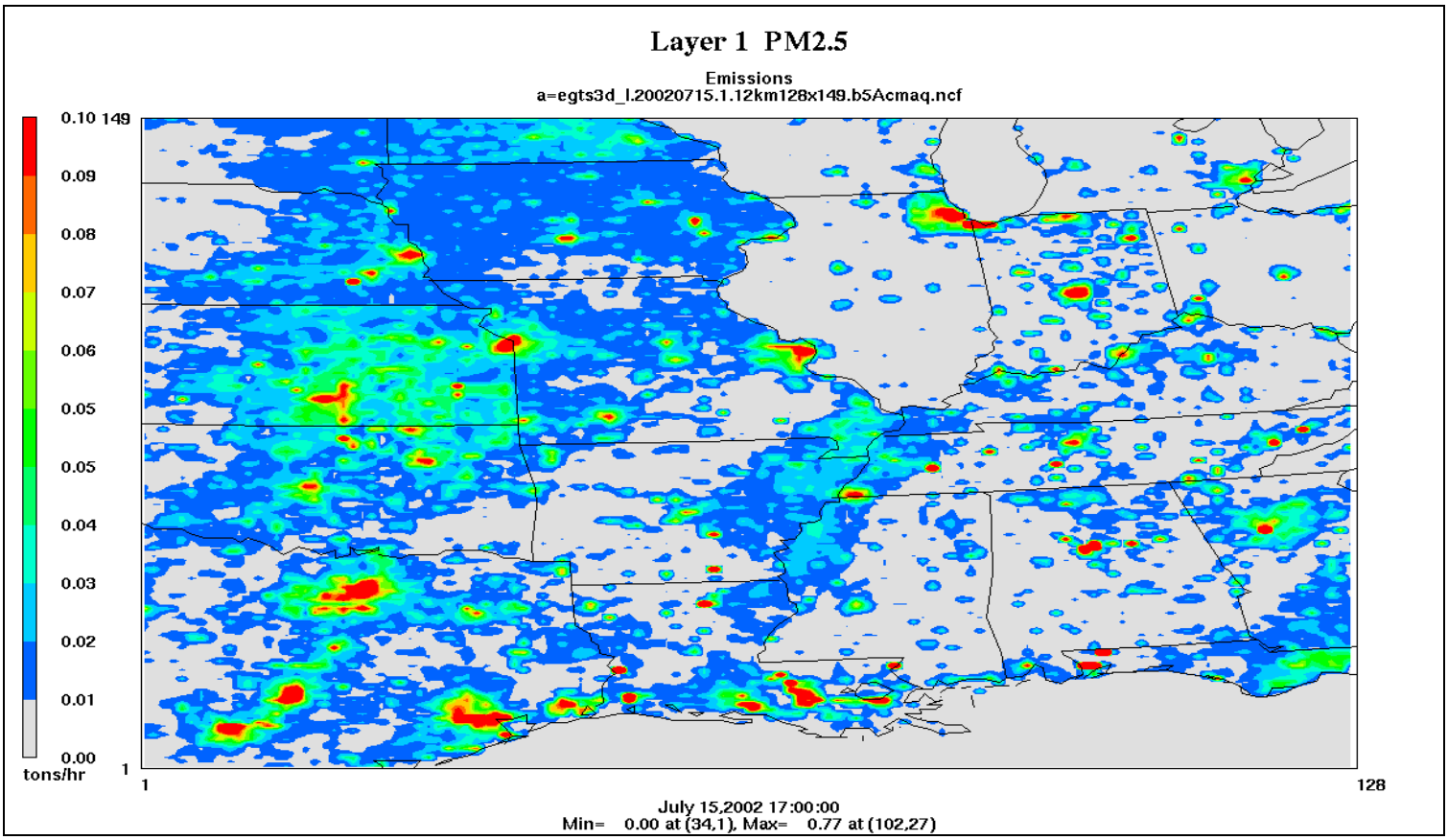


Figure B-3. Example spatial distribution of SO_2 emissions for merged low-level sources in the full 12 km domain at midnight [0500] (first), 6am [1100] (second), noon [1700] (third) and 6pm [2300] (last) on a typical July Monday (07/15/02).


Layer 1 PM2.5
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.10
0.09
0.08
0.07
0.06
0.05
0.05
0.04
0.03
0.02
0.01
0.00
tons/hr
149
1
1
128
July 15,2002 5:00:00
Min= 0.00 at (34,1), Max= 0.45 at (101,24)


Layer 1 PM2.5
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.10 149
0.09
0.08
0.07
0.06
0.05
0.05
0.04
0.03
0.02
0.01
0.00
tons/hr
1
1
128
July 15,2002 11:00:00
Min= 0.00 at (34,1), Max= 0.45 at (101,24)


Layer 1 PM2.5
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.10
0.09
0.08
0.07
0.06
0.05
0.05
0.04
0.03
0.02
0.01
0.00
tons/hr
149
1
1
128
July 15,2002 17:00:00
Min= 0.00 at (34,1), Max= 0.77 at (102,27)

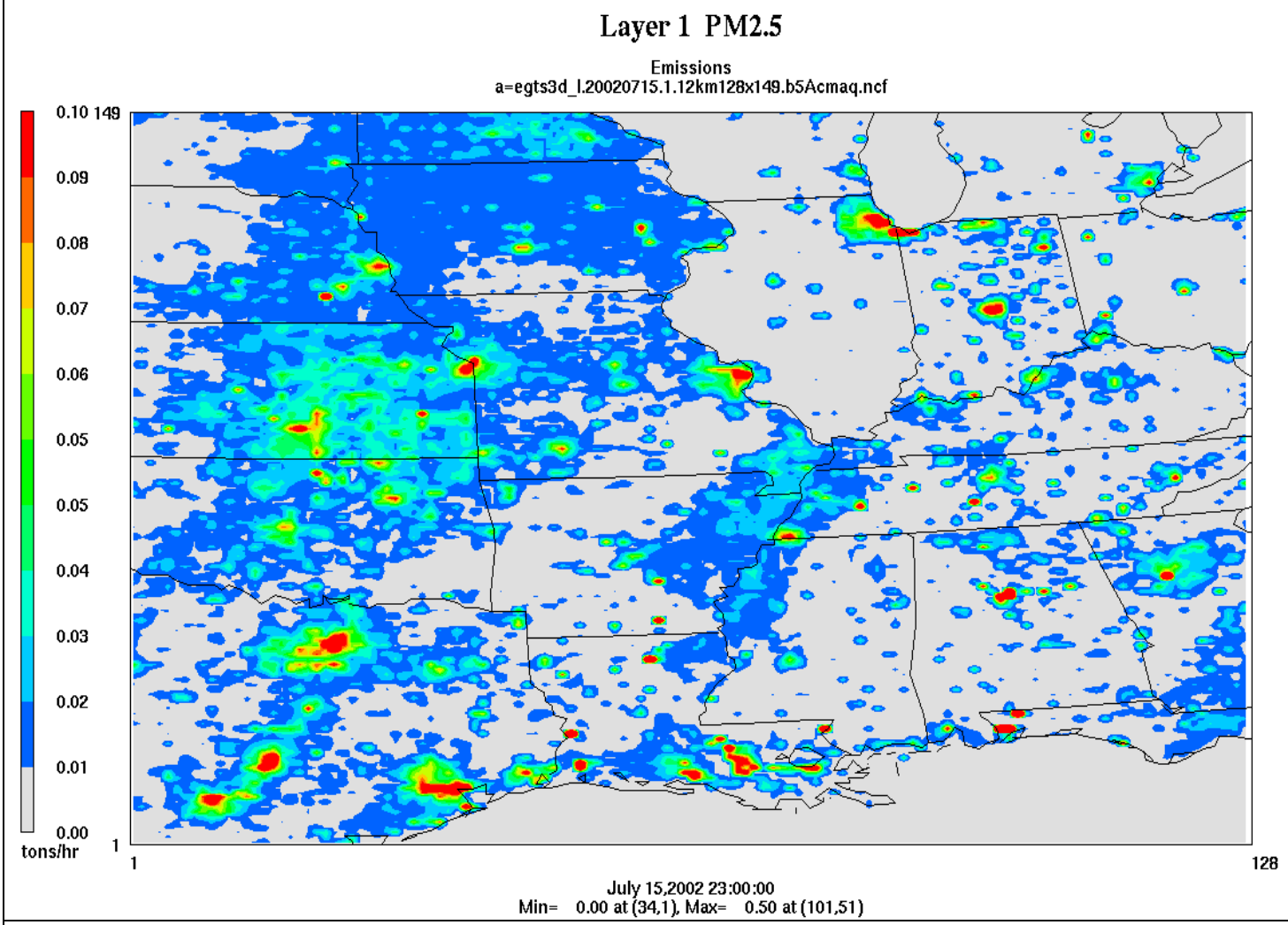
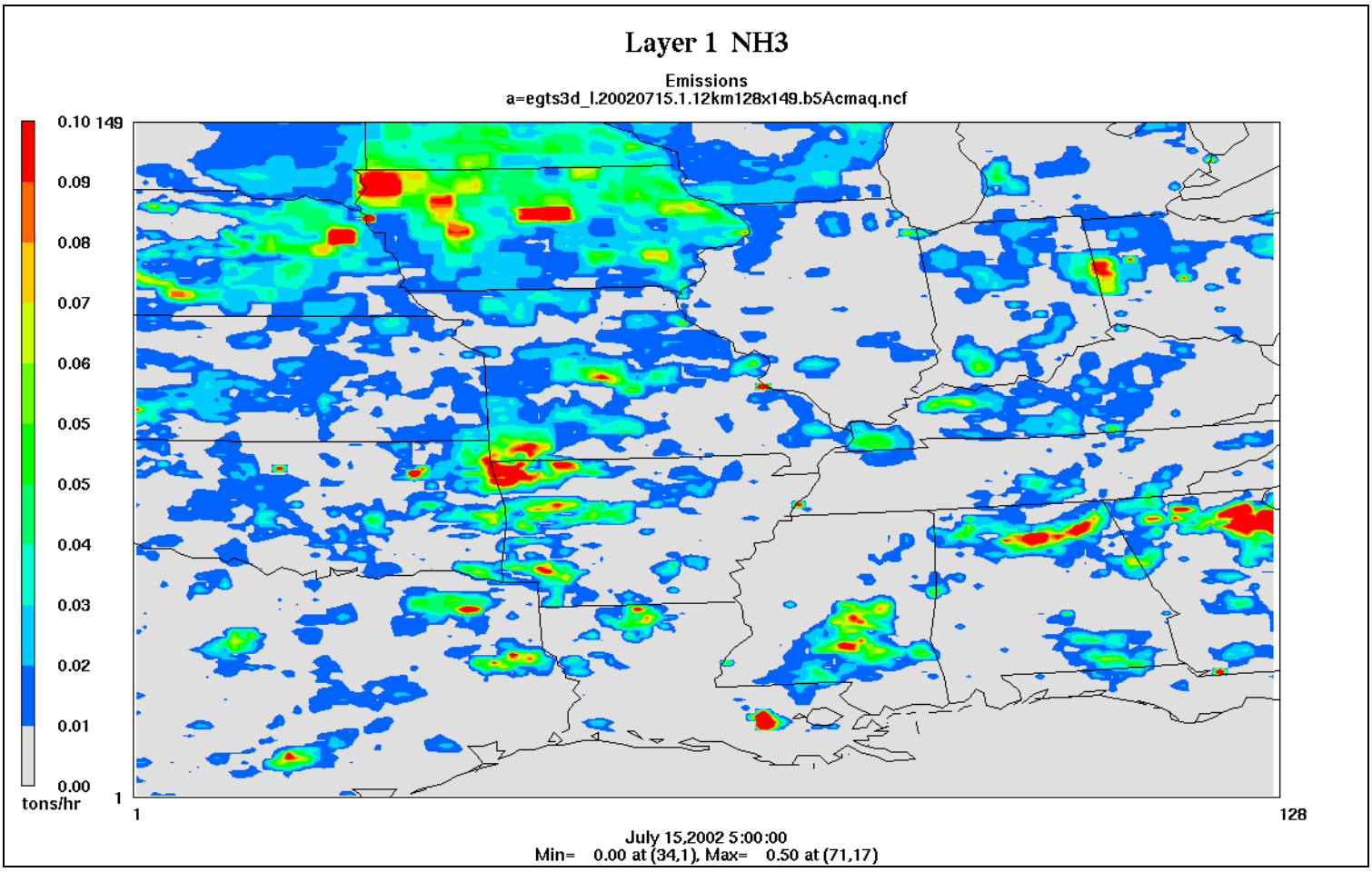
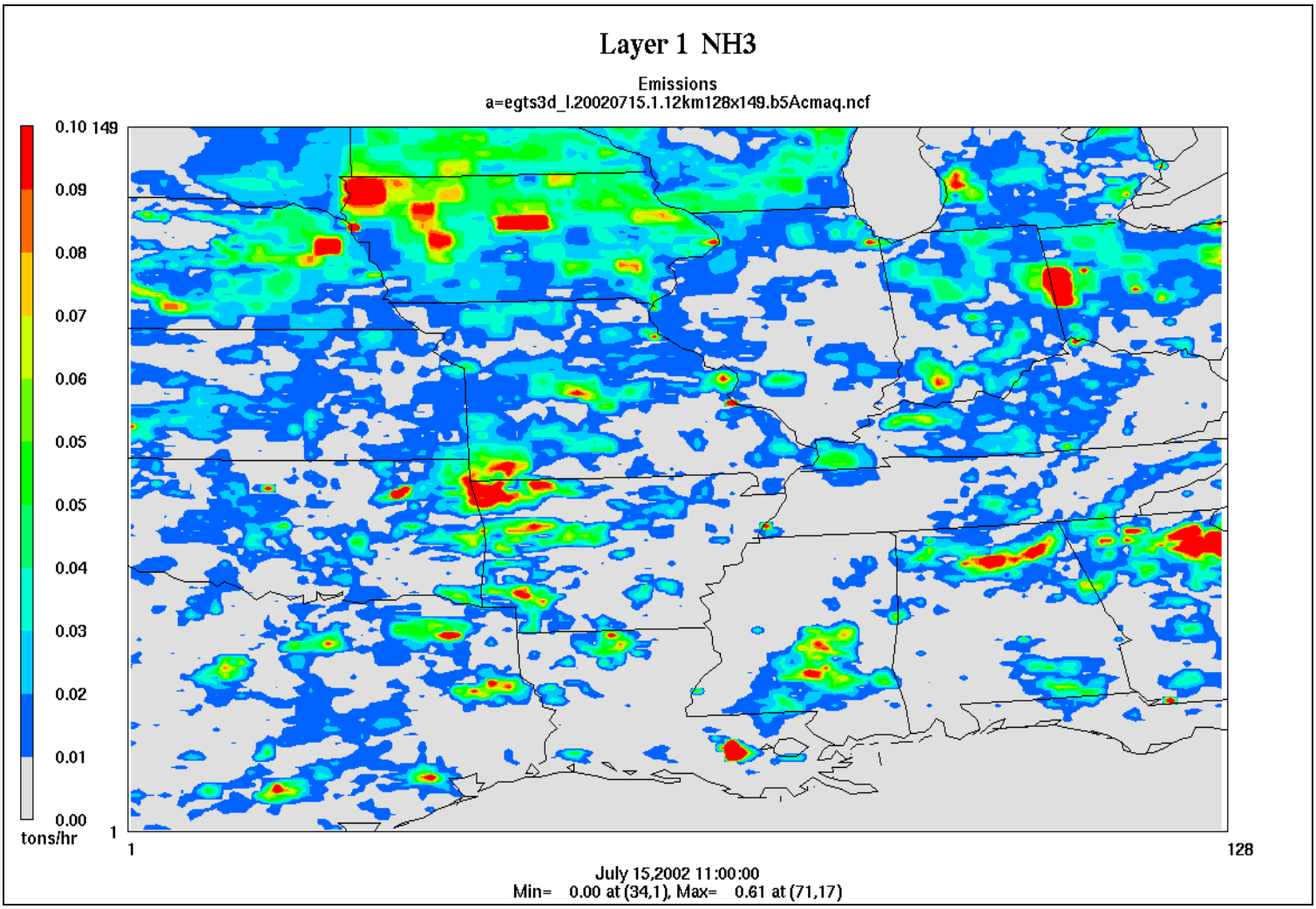
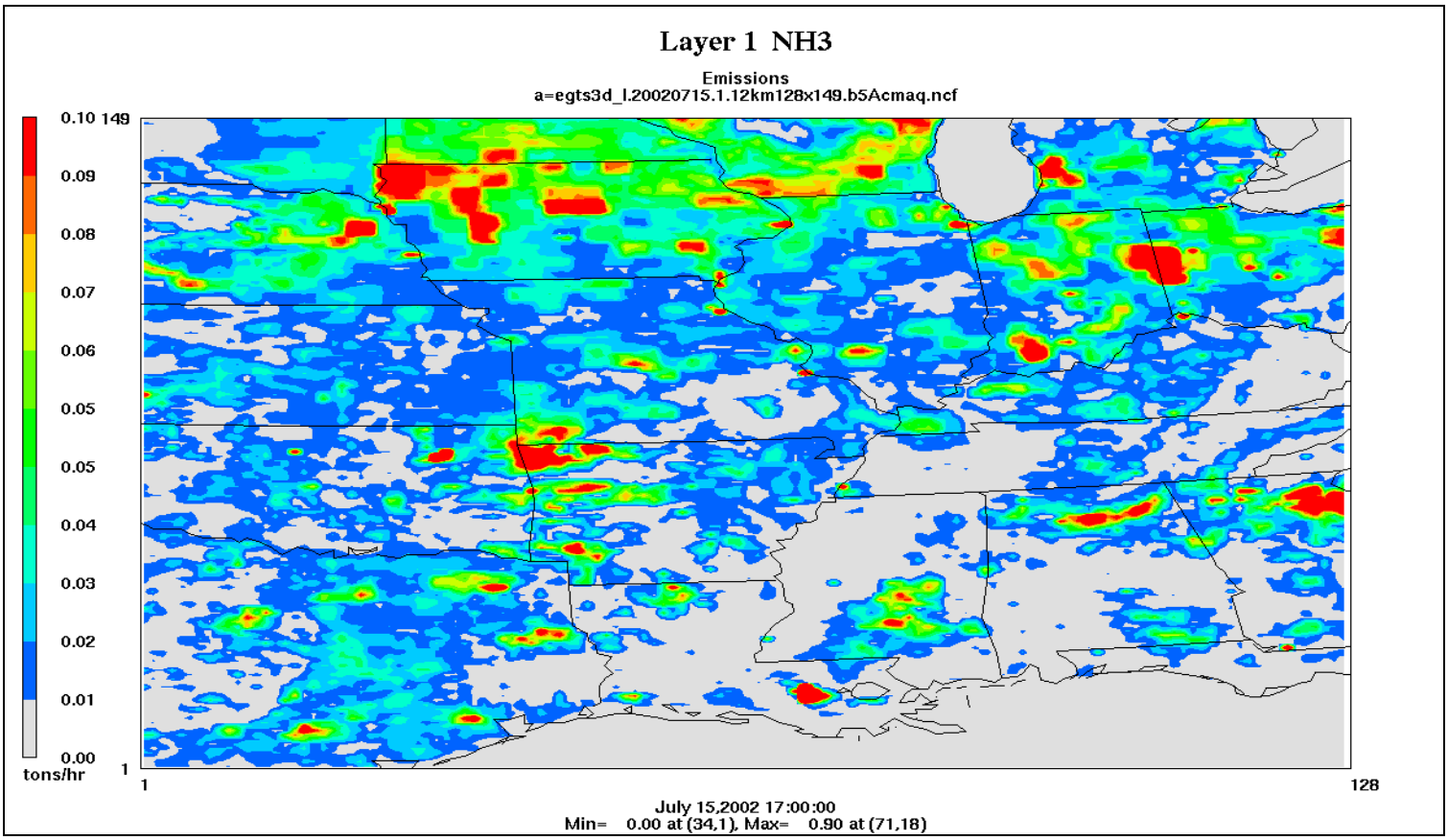


Figure B-4. Example spatial distribution of $PM_{2.5}$ emissions for merged low-level sources in the full 12 km domain at midnight [0500] (first), 6am [1100] (second), noon [1700] (third) and 6pm [2300] (last) on a typical July Monday (07/15/02).


Layer 1 NH3
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.10 149
0.09
0.08
0.07
0.06
0.05
0.05
0.04
0.03
0.02
0.01
0.00
tons/hr
1
1
128
July 15,2002 5:00:00
Min= 0.00 at (34,1), Max= 0.50 at (71,17)


Layer 1 NH3
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.10 149
0.09
0.08
0.07
0.06
0.05
0.05
0.04
0.03
0.02
0.01
0.00
tons/hr
1
1
128
July 15,2002 11:00:00
Min= 0.00 at (34,1), Max= 0.61 at (71,17)


Layer 1 NH3
Emissions
a=egts3d_l.20020715.1.12km128x149.b5Acmaq.ncf
0.10
0.09
0.08
0.07
0.06
0.05
0.05
0.04
0.03
0.02
0.01
0.00
tons/hr
149
1
1
128
July 15,2002 17:00:00
Min= 0.00 at (34,1), Max= 0.90 at (71,18)

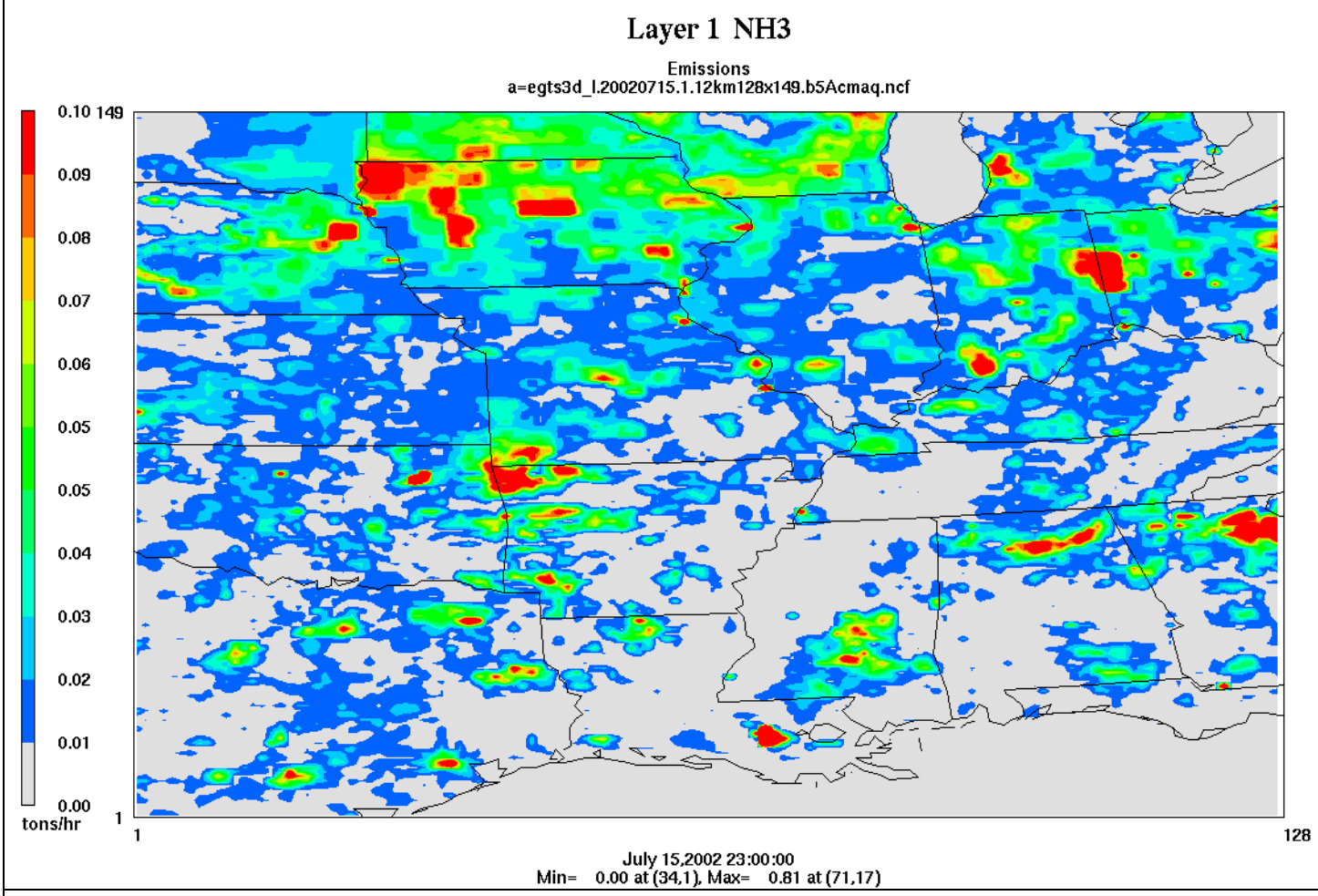


Figure B-5. Example spatial distribution of NH_3 emissions for merged low-level sources in the full 12 km domain at midnight [0500] (first), 6am [1100] (second), noon [1700] (third) and 6pm [2300] (last) on a typical July Monday (07/15/02).