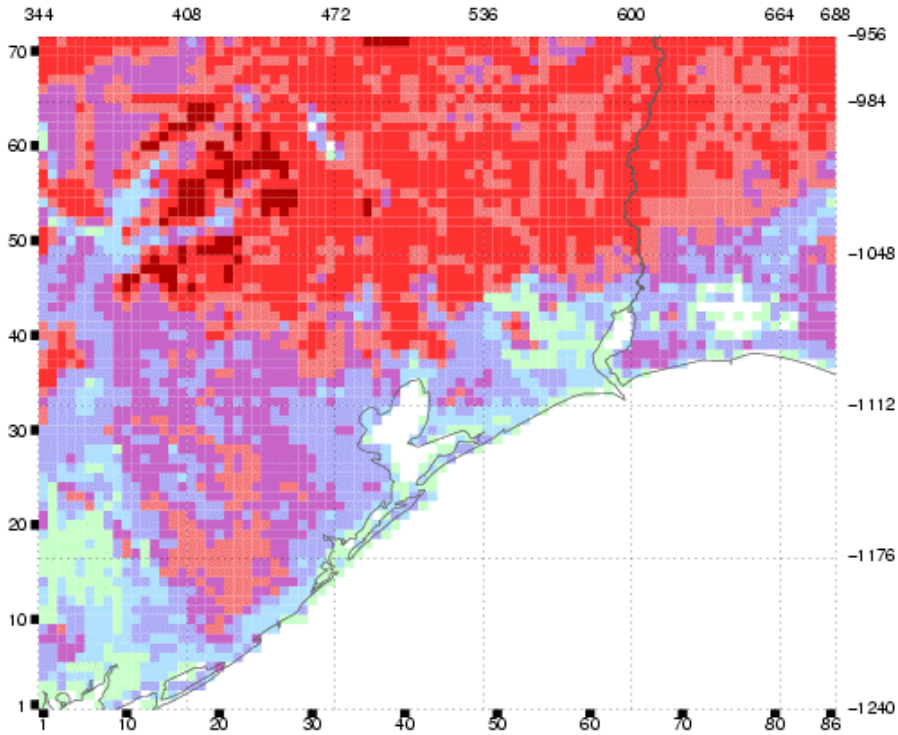
APPENDIX L

hgbpa_04km Biogenic CB–IV HC Emissions, 08/10/2000

(4x4 Km Grid Cells)



Emissions Plotted

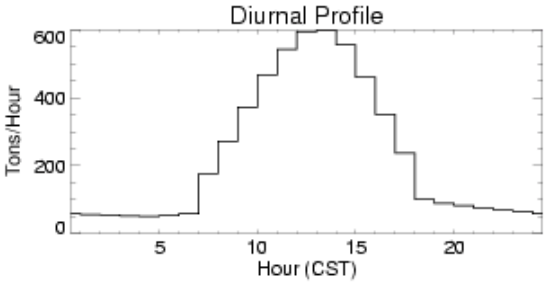
County	Tons/Day
Brazoria	175.24
Chambers	47.34
Fort Bend	107.84
Galveston	20.21
Harris	265.26
Liberty	375.66
Montgomery	409.56
Waller	90.91
HG SUBTOTAL:	1492.02
Hardin	313.24
Jefferson	50.22
Orange	71.52
BPA SUBTOTAL:	434.98
MAP TOTAL:	5500.18

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

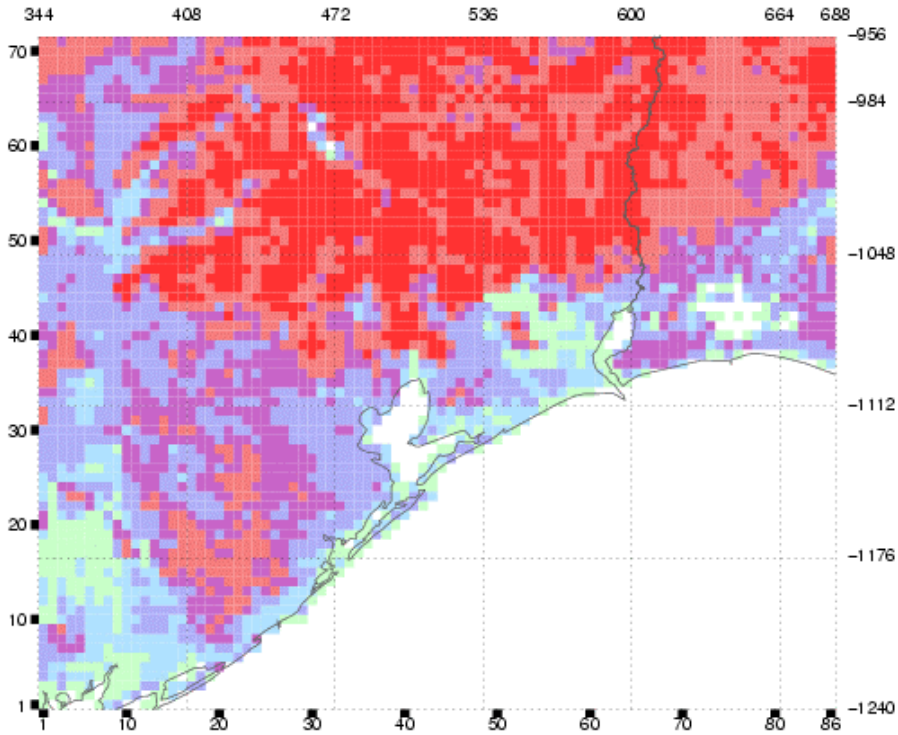
Max: 3.122 t/d (390, –1054); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 08/11/2000

(4x4 Km Grid Cells)



Emissions Plotted

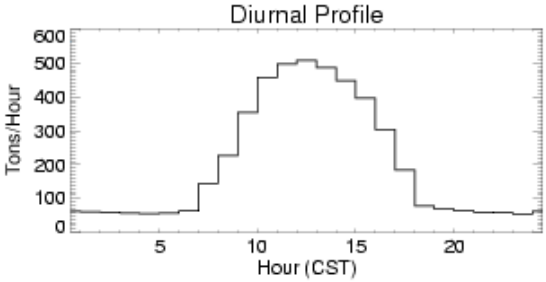
County	Tons/Day
Brazoria	165.63
Chambers	46.48
Fort Bend	99.13
Galveston	19.95
Harris	243.21
Liberty	350.83
Montgomery	328.38
Waller	69.01
HG SUBTOTAL:	1322.61
Hardin	307.68
Jefferson	49.88
Orange	72.96
BPA SUBTOTAL:	430.52
MAP TOTAL:	4809.85

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

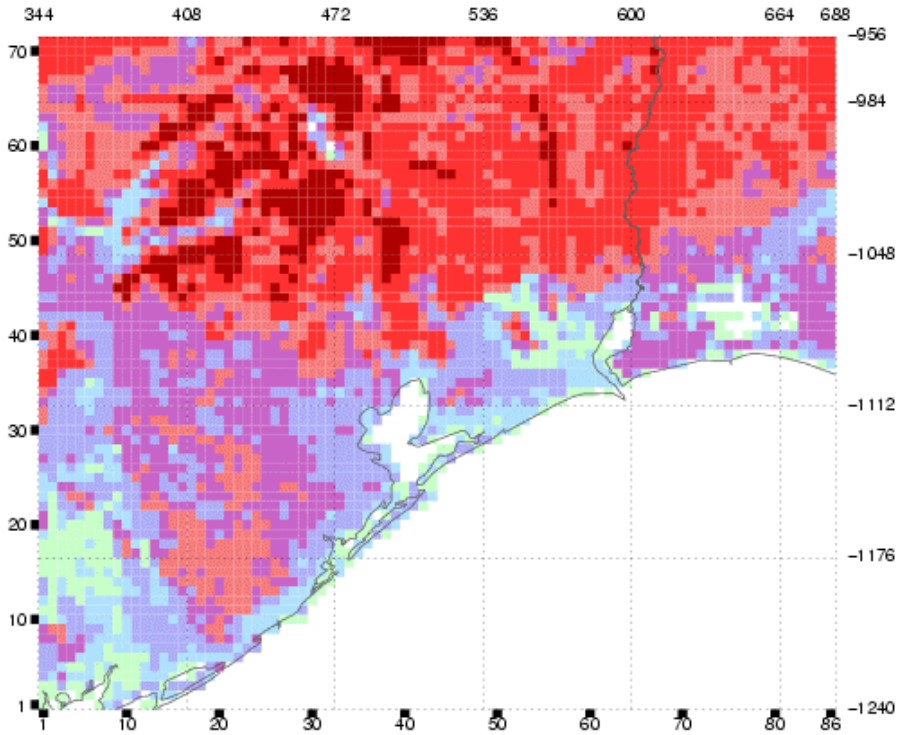
Max: 2.930 t/d (534, –958); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 08/12/2000

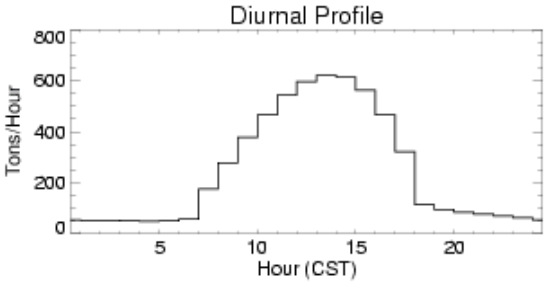
(4x4 Km Grid Cells)



Emissions Plotted

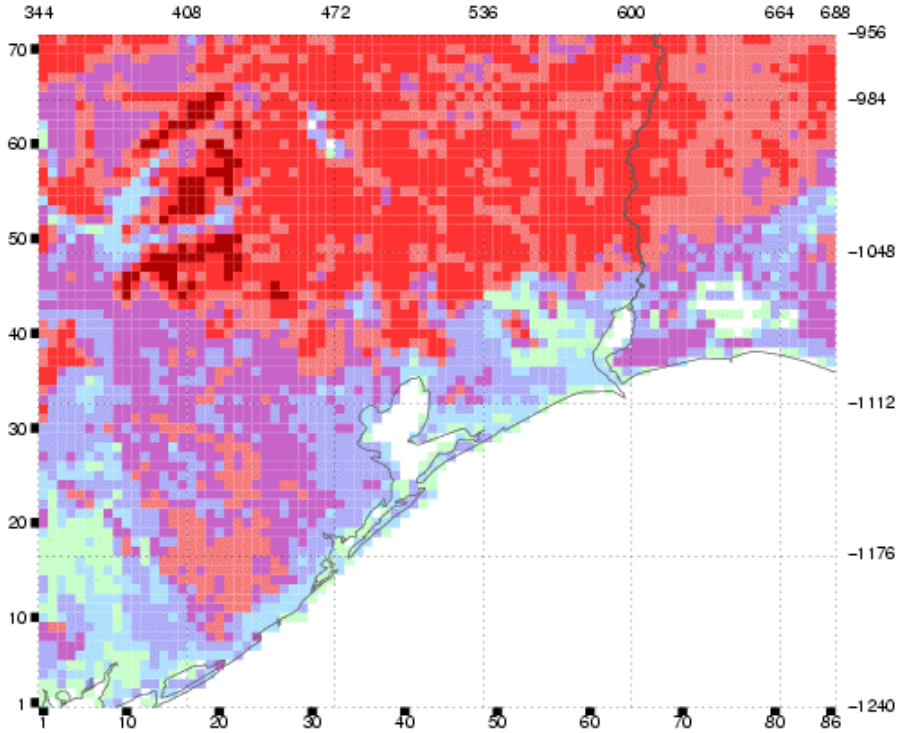
County	Tons/Day
Brazoria	186.17
Chambers	49.70
Fort Bend	113.23
Galveston	21.51
Harris	270.71
Liberty	391.47
Montgomery	424.24
Waller	96.13
HG SUBTOTAL:	1553.16
Hardin	354.99
Jefferson	57.86
Orange	88.65
BPA SUBTOTAL:	501.50
MAP TOTAL:	5891.35

Max: 3.342 t/d (382, –1062); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/13/2000

(4x4 Km Grid Cells)



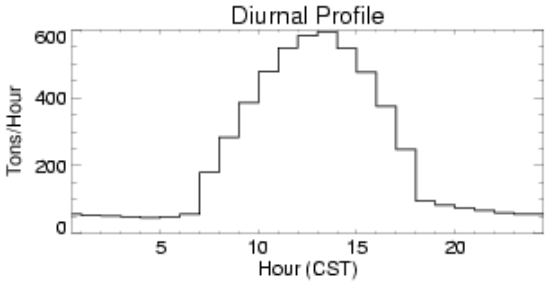
Emissions Plotted

County	Tons/Day
Brazoria	183.79
Chambers	48.07
Fort Bend	115.27
Galveston	21.17
Harris	273.00
Liberty	358.13
Montgomery	411.20
Waller	96.37
HG SUBTOTAL:	1507.00
Hardin	319.75
Jefferson	54.58
Orange	83.22
BPA SUBTOTAL:	457.54
MAP TOTAL:	5504.91

Legend (Tons/Day)

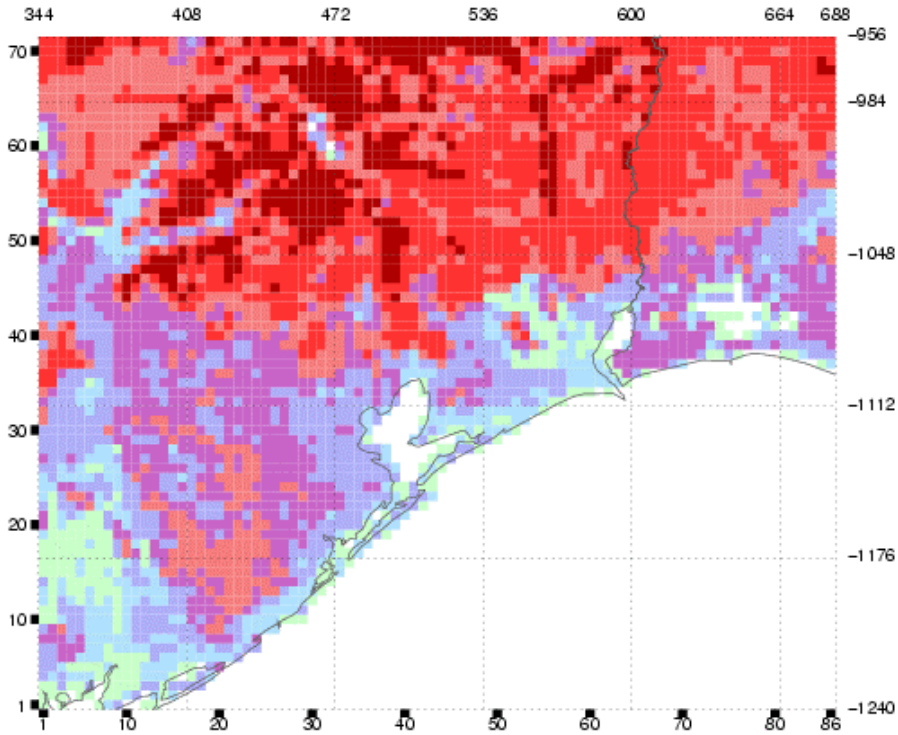
< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

Max: 3.305 t/d (382, –1062); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/18/2000

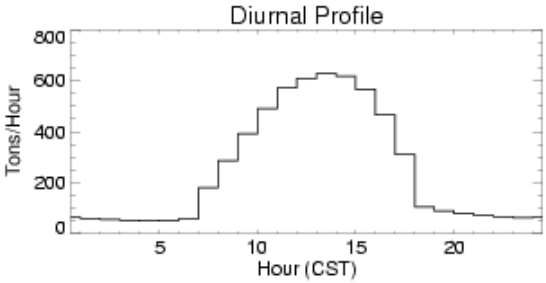
(4x4 Km Grid Cells)



Emissions Plotted

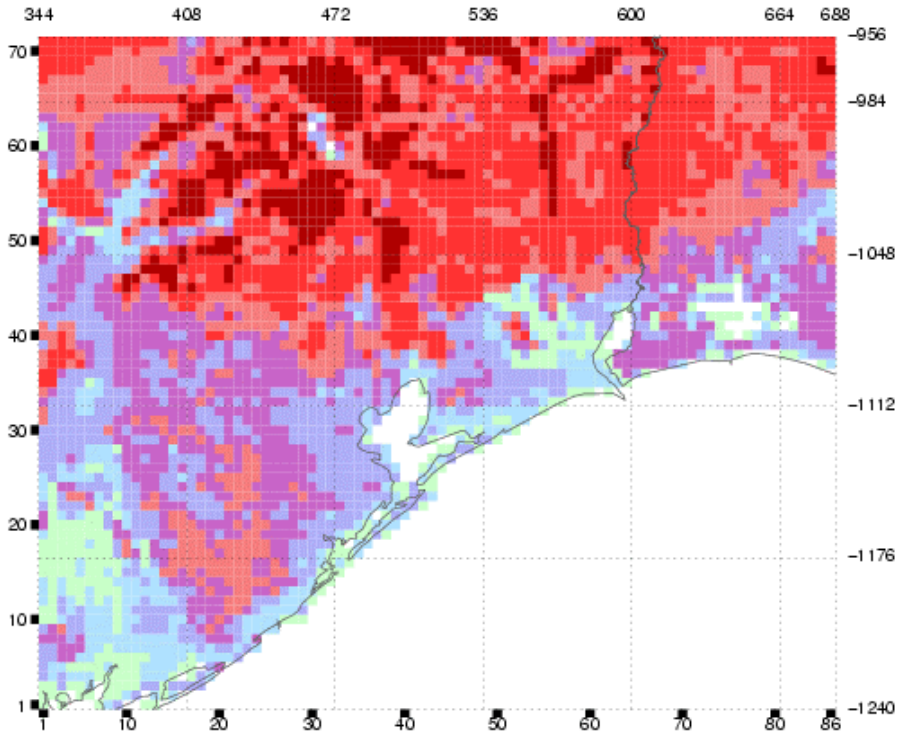
County	Tons/Day
Brazoria	179.39
Chambers	50.87
Fort Bend	109.23
Galveston	21.64
Harris	268.83
Liberty	396.55
Montgomery	418.94
Waller	93.10
HG SUBTOTAL:	1538.57
Hardin	363.54
Jefferson	60.67
Orange	90.70
BPA SUBTOTAL:	514.91
MAP TOTAL:	5992.08

Max: 3.418 t/d (486, –958); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/19/2000

(4x4 Km Grid Cells)



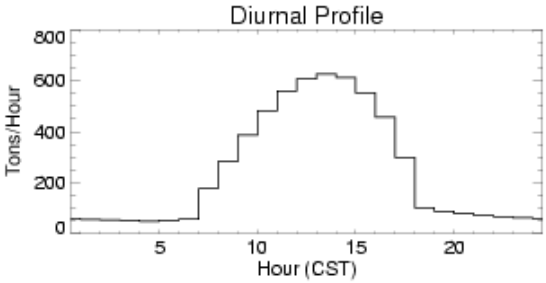
Emissions Plotted

County	Tons/Day
Brazoria	168.10
Chambers	50.29
Fort Bend	104.58
Galveston	20.49
Harris	263.29
Liberty	394.09
Montgomery	412.10
Waller	89.94
HG SUBTOTAL:	1502.88
Hardin	360.85
Jefferson	59.83
Orange	90.14
BPA SUBTOTAL:	510.83
MAP TOTAL:	5891.42

Legend (Tons/Day)

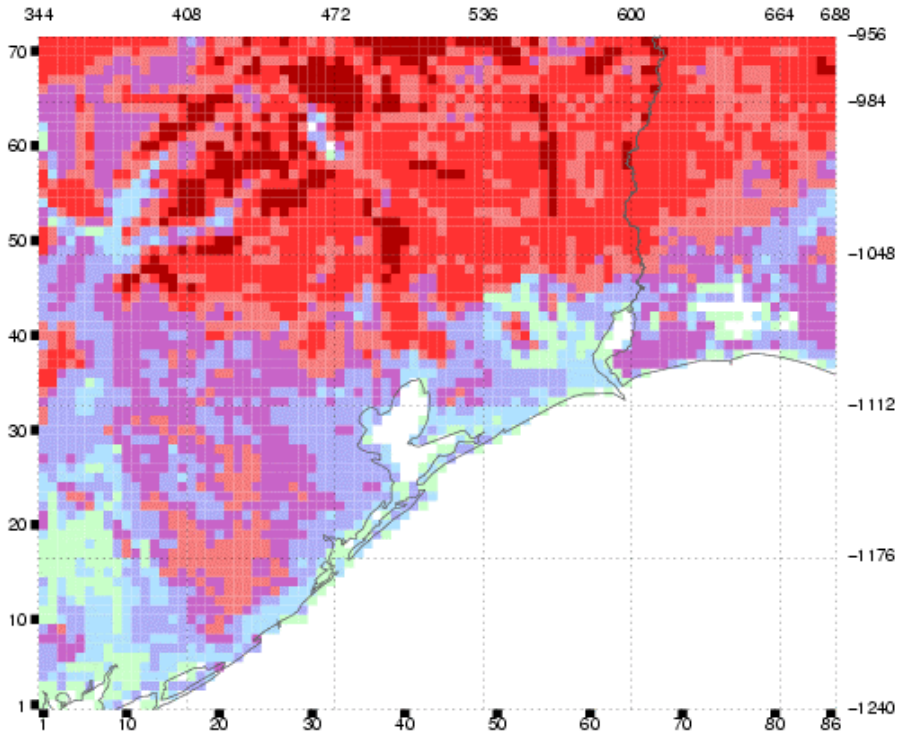
< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

Max: 3.369 t/d (534, –958); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/20/2000

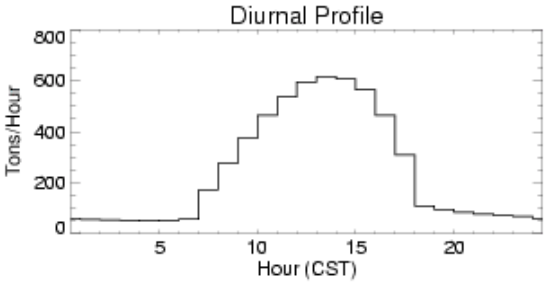
(4x4 Km Grid Cells)



Emissions Plotted

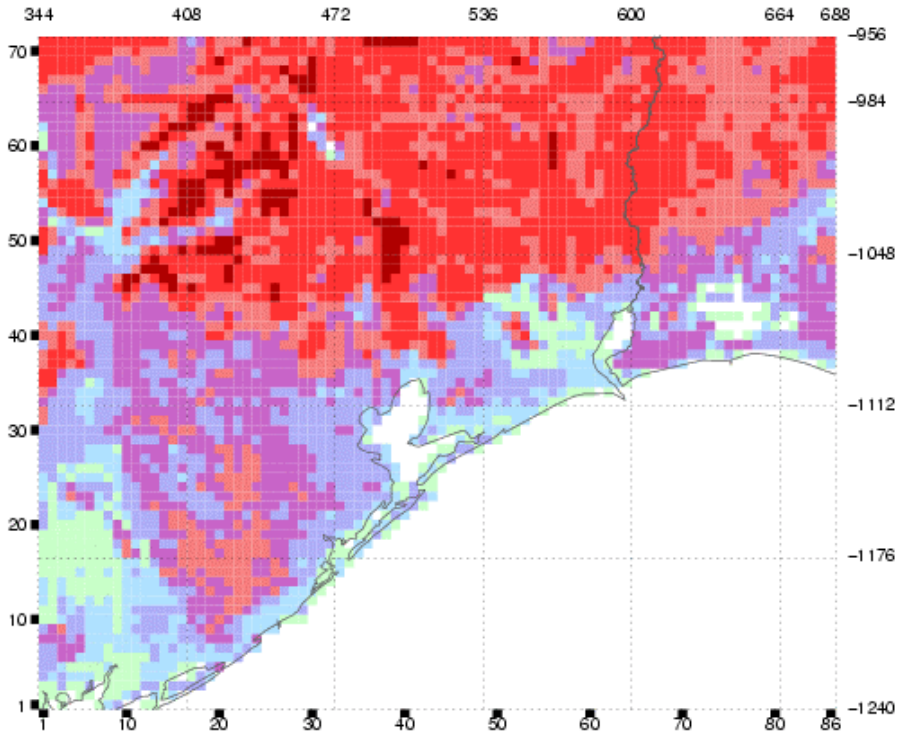
County	Tons/Day
Brazoria	174.06
Chambers	50.99
Fort Bend	106.40
Galveston	20.86
Harris	263.04
Liberty	392.37
Montgomery	407.66
Waller	90.06
HG SUBTOTAL:	1505.44
Hardin	362.07
Jefferson	60.84
Orange	91.97
BPA SUBTOTAL:	514.87
MAP TOTAL:	5872.69

Max: 3.282 t/d (538, –958); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/21/2000

(4x4 Km Grid Cells)



Emissions Plotted

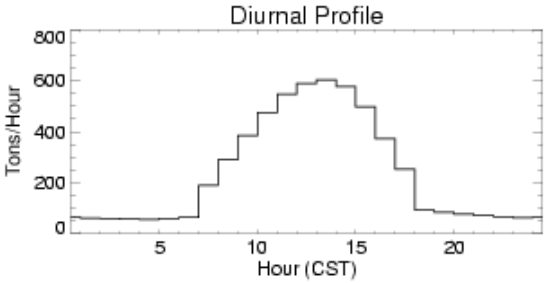
County	Tons/Day
Brazoria	170.45
Chambers	49.40
Fort Bend	103.63
Galveston	20.56
Harris	267.93
Liberty	391.94
Montgomery	409.61
Waller	88.89
HG SUBTOTAL:	1502.40
Hardin	354.27
Jefferson	57.90
Orange	88.30
BPA SUBTOTAL:	500.47
MAP TOTAL:	5661.26

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

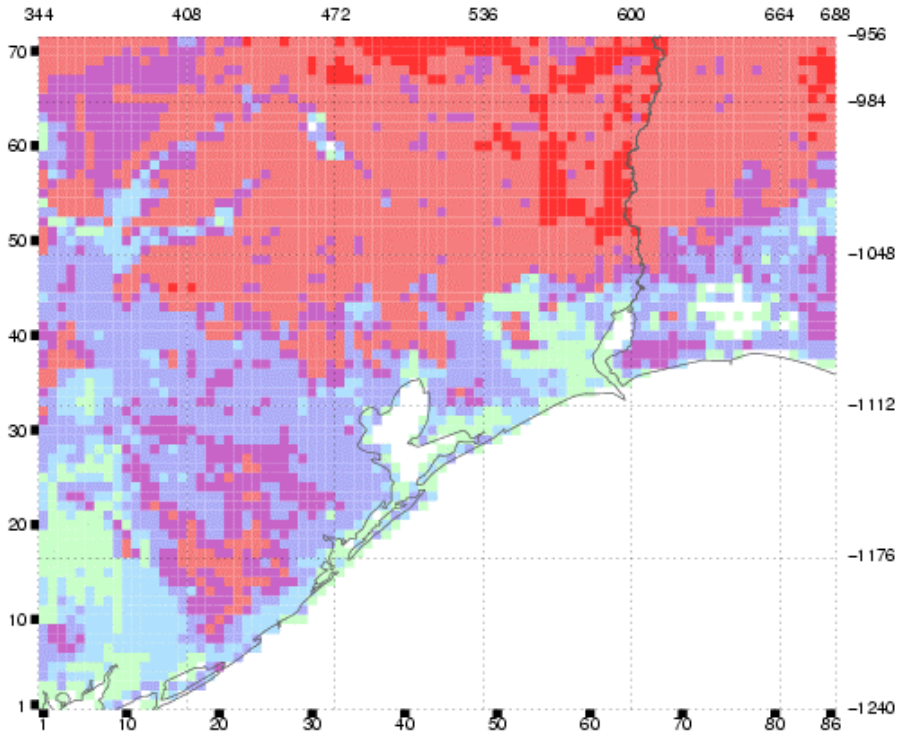
Max: 3.191 t/d (486, –1026); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 08/22/2000

(4x4 Km Grid Cells)



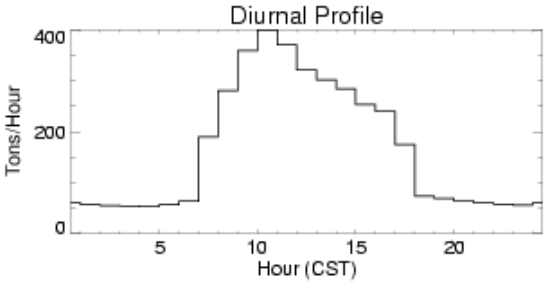
Emissions Plotted

County	Tons/Day
Brazoria	140.38
Chambers	36.89
Fort Bend	73.12
Galveston	16.74
Harris	175.38
Liberty	250.41
Montgomery	243.58
Waller	56.84
HG SUBTOTAL:	993.34
Hardin	245.28
Jefferson	42.17
Orange	60.85
BPA SUBTOTAL:	348.30
MAP TOTAL:	3958.15

Legend (Tons/Day)

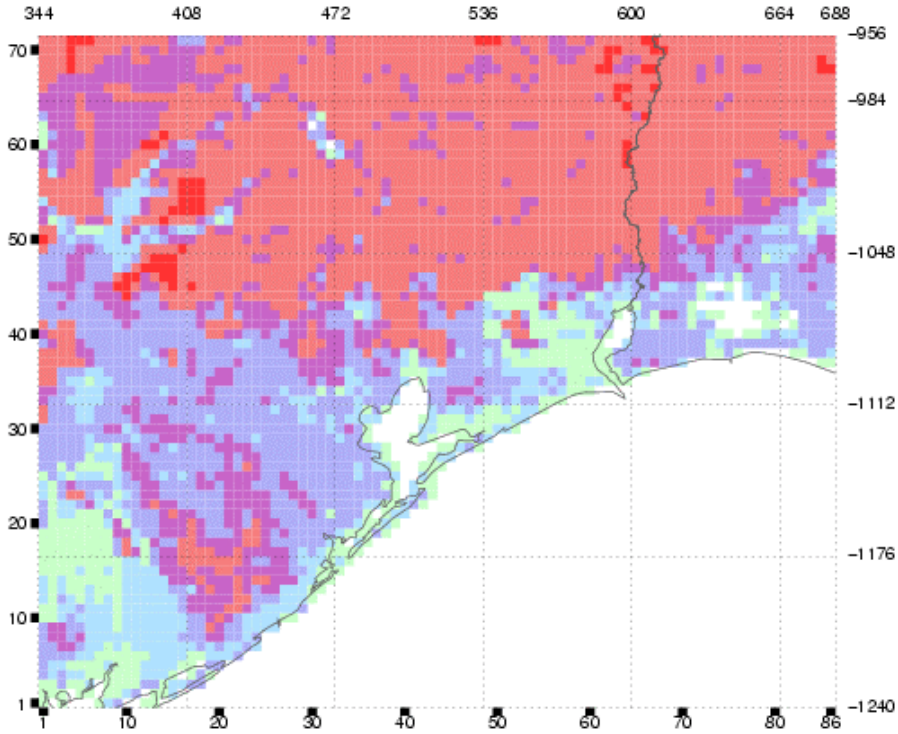
< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

Max: 2.366 t/d (610, –962); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/23/2000

(4x4 Km Grid Cells)



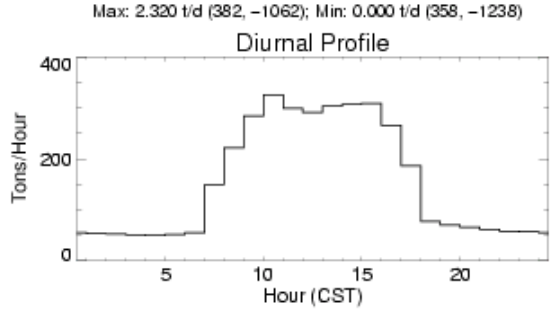
Emissions Plotted

County	Tons/Day
Brazoria	123.49
Chambers	31.54
Fort Bend	69.25
Galveston	13.02
Harris	147.09
Liberty	210.79
Montgomery	240.71
Waller	63.58
HG SUBTOTAL:	899.46
Hardin	217.46
Jefferson	39.71
Orange	58.34
BPA SUBTOTAL:	315.50
MAP TOTAL:	3702.34

Legend (Tons/Day)

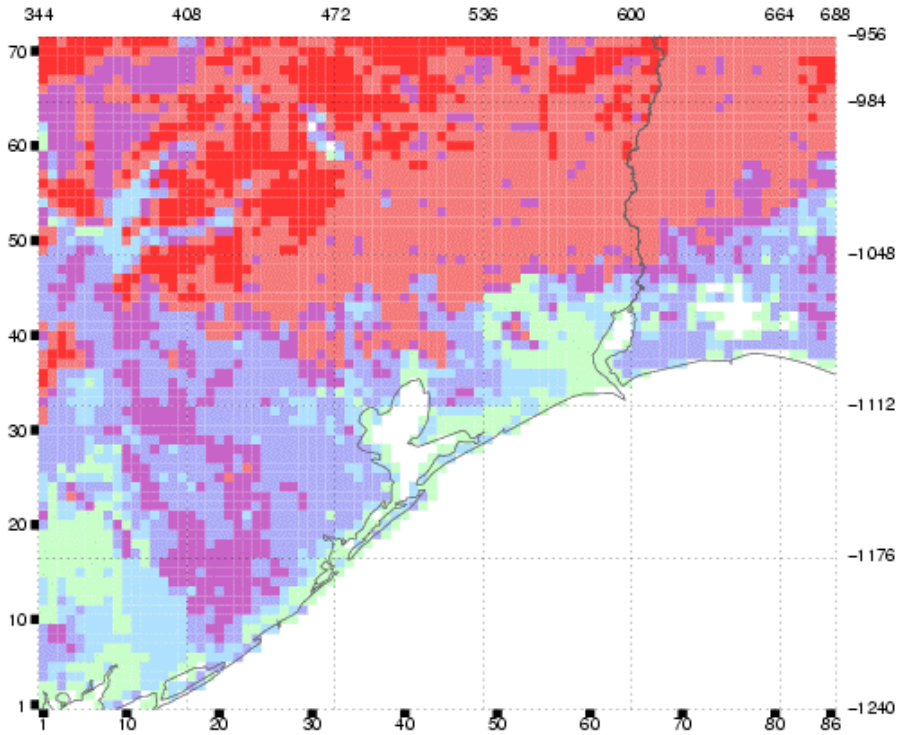
< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

Max: 2.320 t/d (382, –1062); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/24/2000

(4x4 Km Grid Cells)



Emissions Plotted

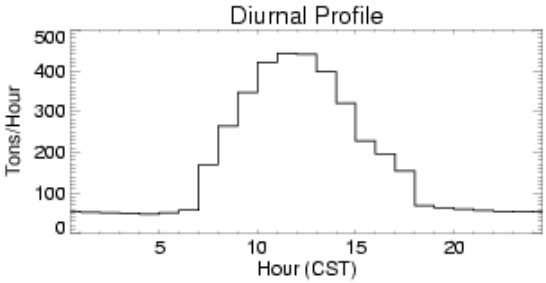
County	Tons/Day
Brazoria	102.05
Chambers	28.24
Fort Bend	72.00
Galveston	11.98
Harris	167.98
Liberty	222.82
Montgomery	304.49
Waller	72.30
HG SUBTOTAL:	981.85
Hardin	206.73
Jefferson	29.14
Orange	47.70
BPA SUBTOTAL:	283.57
MAP TOTAL:	4100.74

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

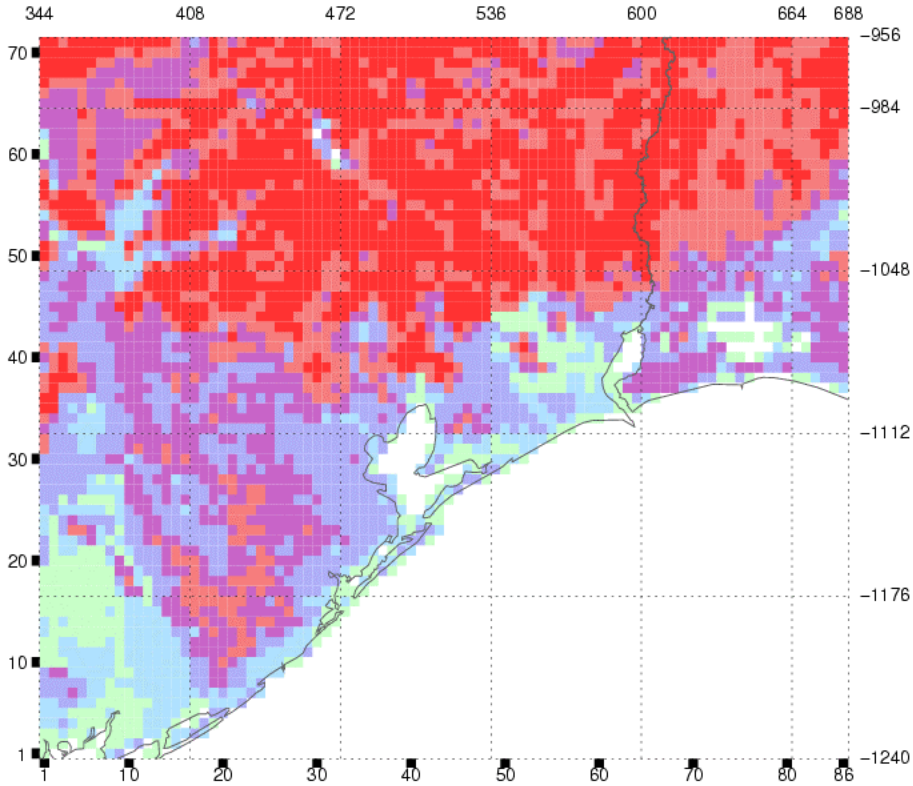
Max: 2.636 t/d (398, –998); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 08/25/2000

(4x4 Km Grid Cells)



Emissions Plotted

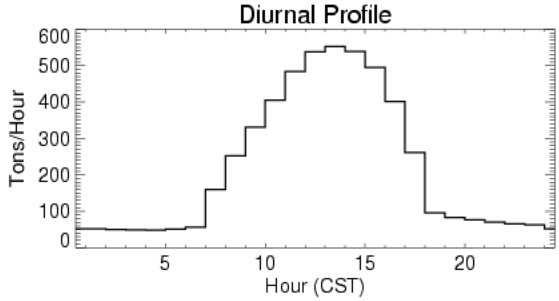
County	Tons/Day
Brazoria	146.73
Chambers	44.24
Fort Bend	92.00
Galveston	18.26
Harris	234.12
Liberty	343.90
Montgomery	368.39
Waller	81.95
HG SUBTOTAL:	1329.59
Hardin	317.35
Jefferson	52.65
Orange	79.94
BPA SUBTOTAL:	449.94
MAP TOTAL:	5232.21

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

Max: 2.988 t/d (534, –958); Min: 0.000 t/d (358, –1238)

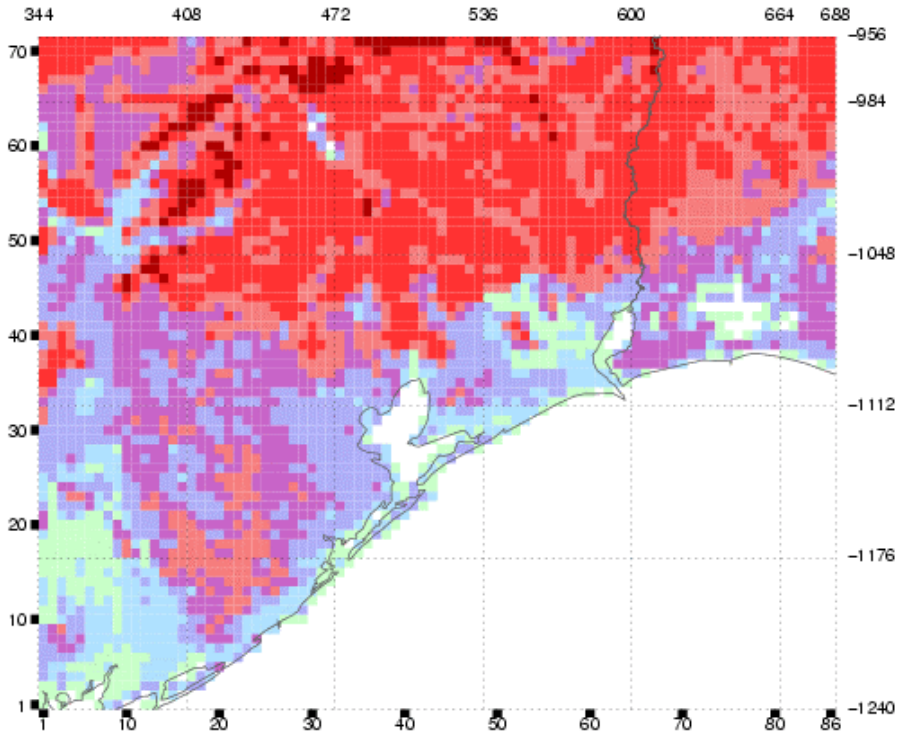
Diurnal Profile



TNRCC MESTES: 03/16/2004 20:09:27 : /eibio/emissions/hgbpa_04km/bio_emis_000825_hgbpa_04km_saskrigT_hirez/PAR_g3d.bin

hgbpa_04km Biogenic CB–IV HC Emissions, 08/26/2000

(4x4 Km Grid Cells)



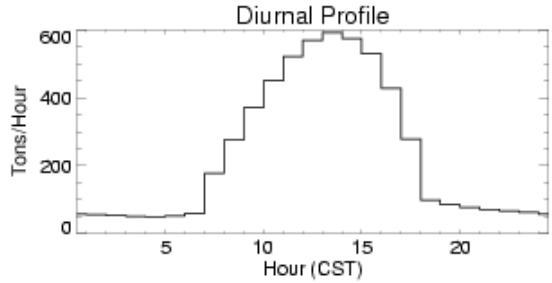
Emissions Plotted

County	Tons/Day
Brazoria	162.20
Chambers	47.21
Fort Bend	100.73
Galveston	19.39
Harris	250.26
Liberty	368.77
Montgomery	393.94
Waller	87.57
HG SUBTOTAL:	1430.06
Hardin	339.99
Jefferson	56.17
Orange	84.82
BPA SUBTOTAL:	480.97
MAP TOTAL:	5613.56

Legend (Tons/Day)

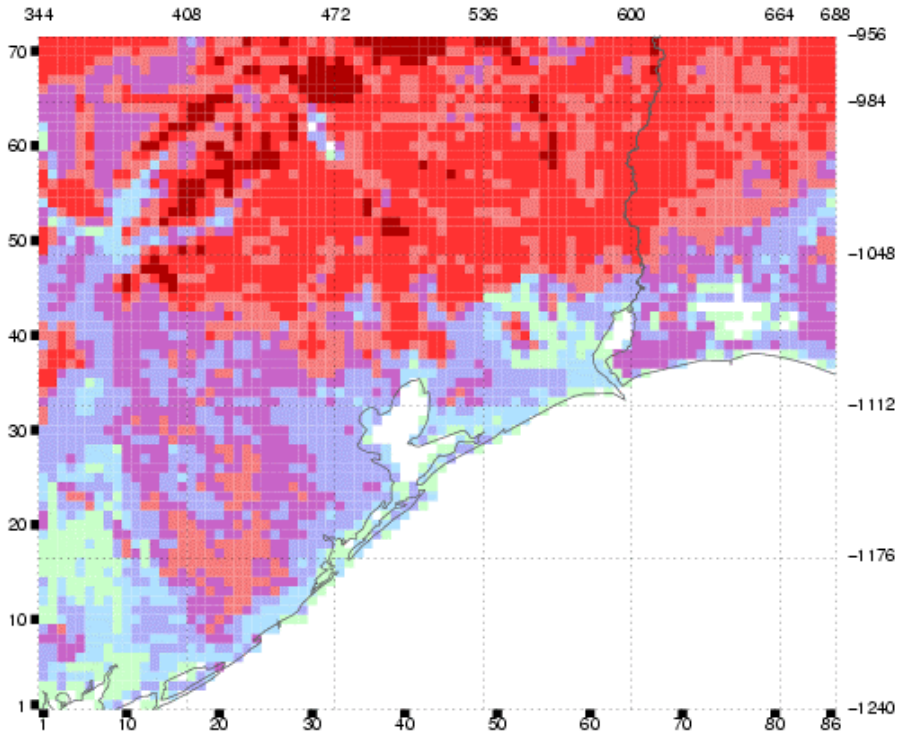
< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

Max: 3.220 t/d (538, –958); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/27/2000

(4x4 Km Grid Cells)



Emissions Plotted

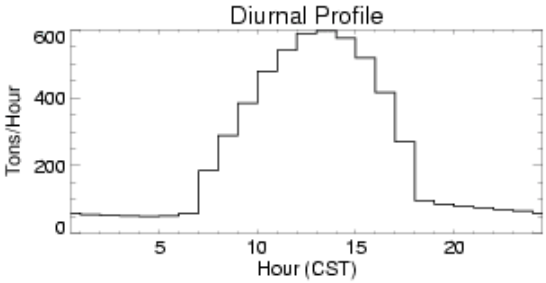
County	Tons/Day
Brazoria	165.39
Chambers	49.54
Fort Bend	101.51
Galveston	20.22
Harris	253.22
Liberty	379.50
Montgomery	397.92
Waller	88.12
HG SUBTOTAL:	1455.43
Hardin	352.00
Jefferson	59.17
Orange	88.89
BPA SUBTOTAL:	500.07
MAP TOTAL:	5710.29

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

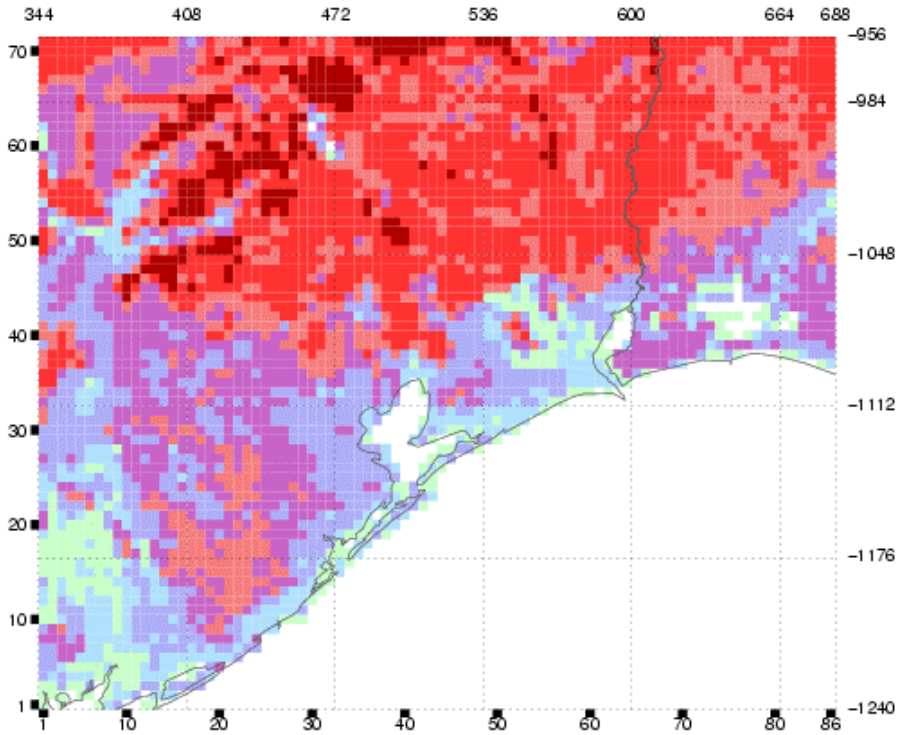
Max: 3.248 t/d (534, –958); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 08/28/2000

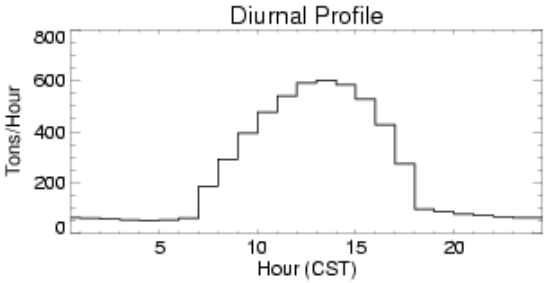
(4x4 Km Grid Cells)



Emissions Plotted

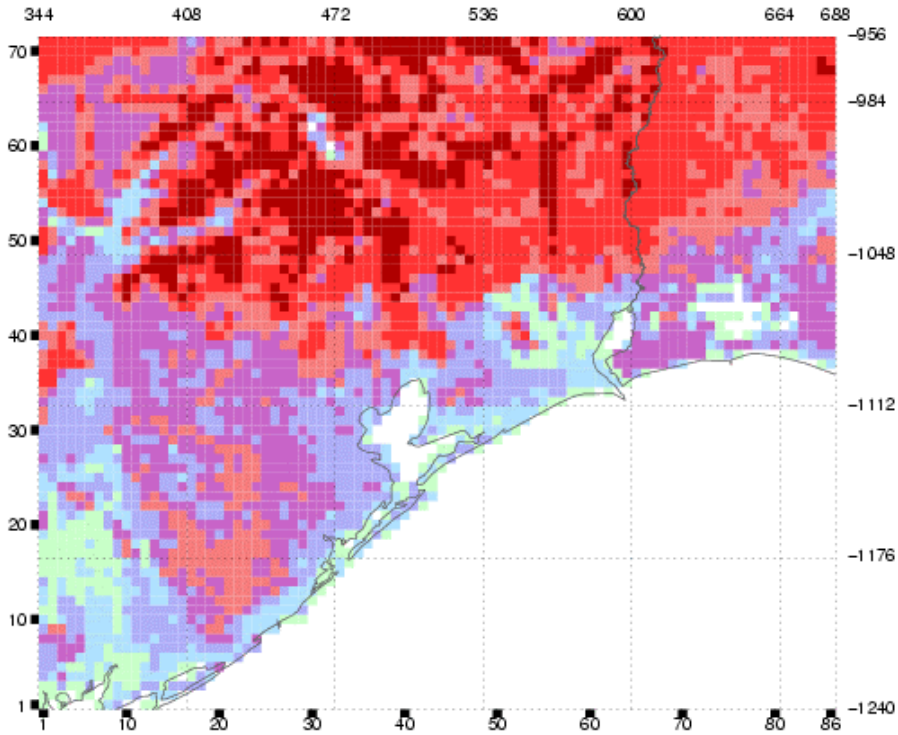
County	Tons/Day
Brazoria	171.28
Chambers	50.18
Fort Bend	106.31
Galveston	20.70
Harris	263.26
Liberty	384.79
Montgomery	408.60
Waller	90.89
HG SUBTOTAL:	1496.00
Hardin	353.82
Jefferson	59.77
Orange	89.60
BPA SUBTOTAL:	503.18
MAP TOTAL:	5761.73

Max: 3.233 t/d (538, –958); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/29/2000

(4x4 Km Grid Cells)



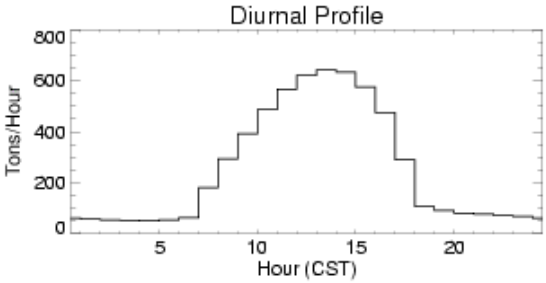
Emissions Plotted

County	Tons/Day
Brazoria	178.13
Chambers	51.95
Fort Bend	109.93
Galveston	21.15
Harris	274.62
Liberty	404.79
Montgomery	426.02
Waller	93.74
HG SUBTOTAL:	1560.33
Hardin	373.55
Jefferson	62.24
Orange	93.92
BPA SUBTOTAL:	529.71
MAP TOTAL:	6049.01

Legend (Tons/Day)

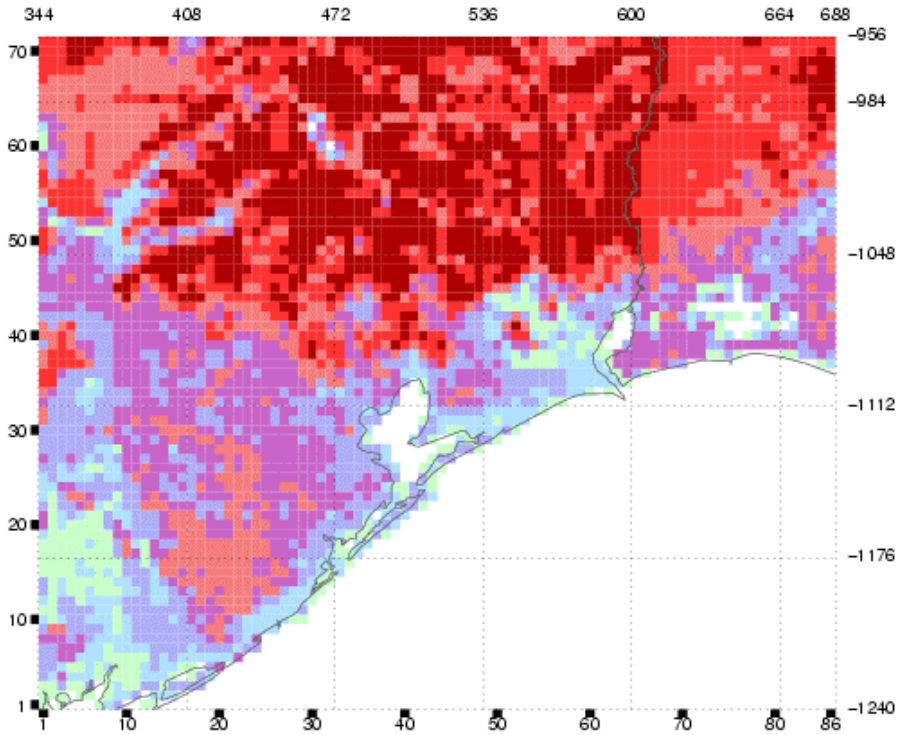
< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

Max: 3.411 t/d (534, –958); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 08/30/2000

(4x4 Km Grid Cells)



Emissions Plotted

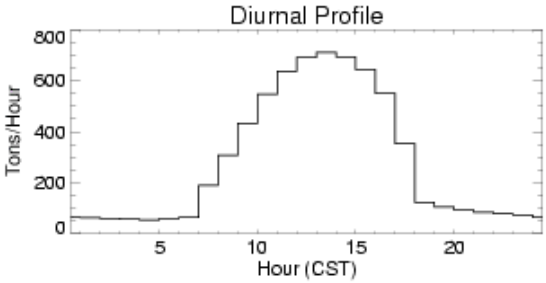
County	Tons/Day
Brazoria	192.96
Chambers	58.81
Fort Bend	116.01
Galveston	23.73
Harris	299.24
Liberty	451.93
Montgomery	463.98
Waller	99.67
HG SUBTOTAL:	1706.33
Hardin	422.89
Jefferson	71.14
Orange	108.63
BPA SUBTOTAL:	602.67
MAP TOTAL:	6736.73

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

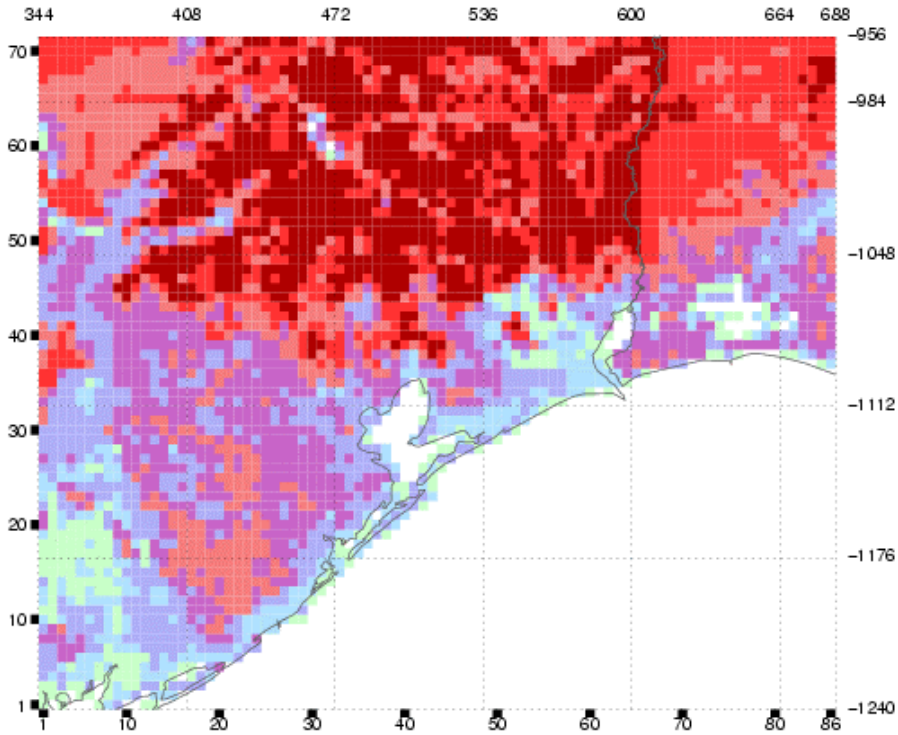
Max: 3.727 t/d (538, –958); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 08/31/2000

(4x4 Km Grid Cells)



Emissions Plotted

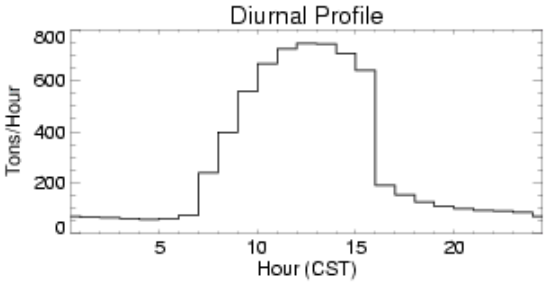
County	Tons/Day
Brazoria	190.51
Chambers	62.81
Fort Bend	112.53
Galveston	24.36
Harris	308.89
Liberty	470.40
Montgomery	485.81
Waller	100.72
HG SUBTOTAL:	1756.03
Hardin	436.52
Jefferson	73.76
Orange	111.89
BPA SUBTOTAL:	622.17
MAP TOTAL:	6806.89

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

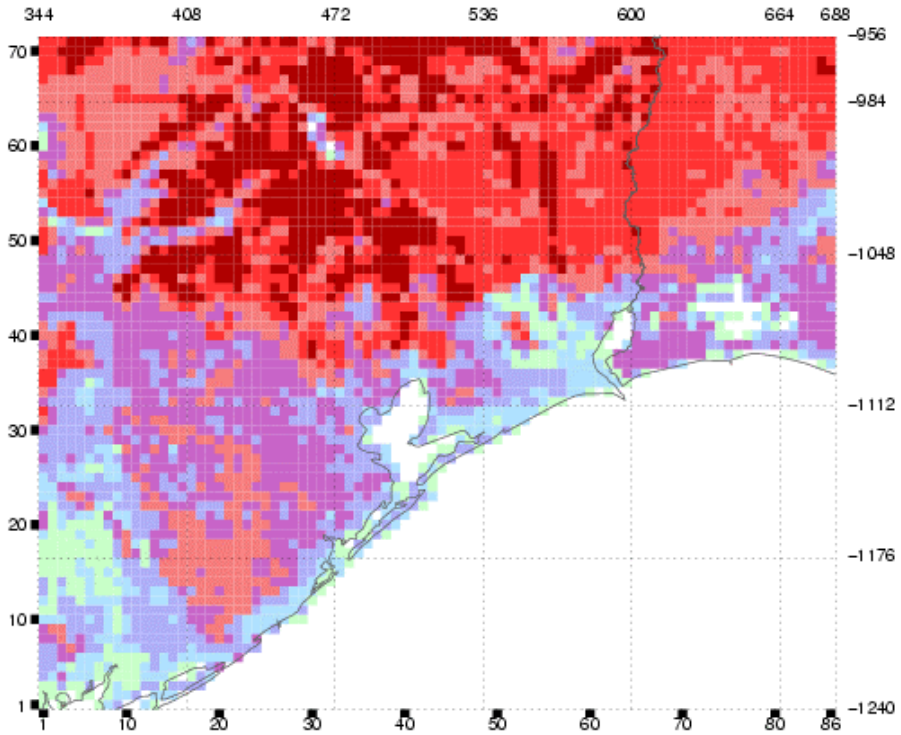
Max: 3.646 t/d (410, –986); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 09/01/2000

(4x4 Km Grid Cells)



Emissions Plotted

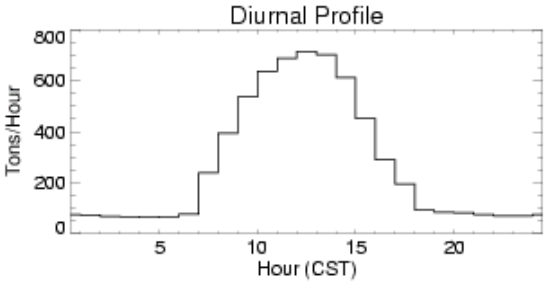
County	Tons/Day
Brazoria	201.69
Chambers	58.45
Fort Bend	122.55
Galveston	24.69
Harris	303.55
Liberty	426.81
Montgomery	464.87
Waller	104.23
HG SUBTOTAL:	1706.83
Hardin	380.10
Jefferson	66.85
Orange	99.17
BPA SUBTOTAL:	546.12
MAP TOTAL:	6424.12

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

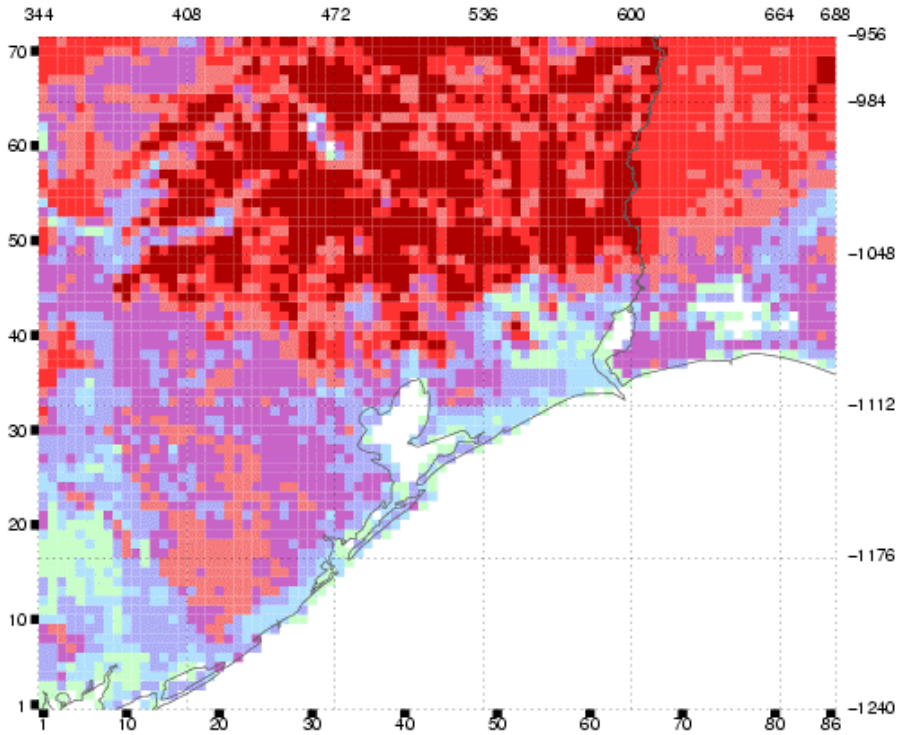
Max: 3.710 t/d (502, –958); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 09/02/2000

(4x4 Km Grid Cells)



Emissions Plotted

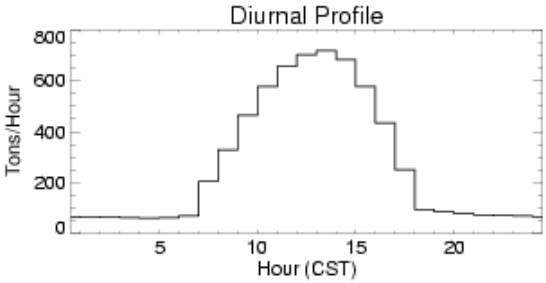
County	Tons/Day
Brazoria	203.42
Chambers	60.97
Fort Bend	123.29
Galveston	24.95
Harris	310.11
Liberty	455.50
Montgomery	463.33
Waller	103.30
HG SUBTOTAL:	1744.86
Hardin	415.55
Jefferson	70.46
Orange	104.38
BPA SUBTOTAL:	590.39
MAP TOTAL:	6533.00

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

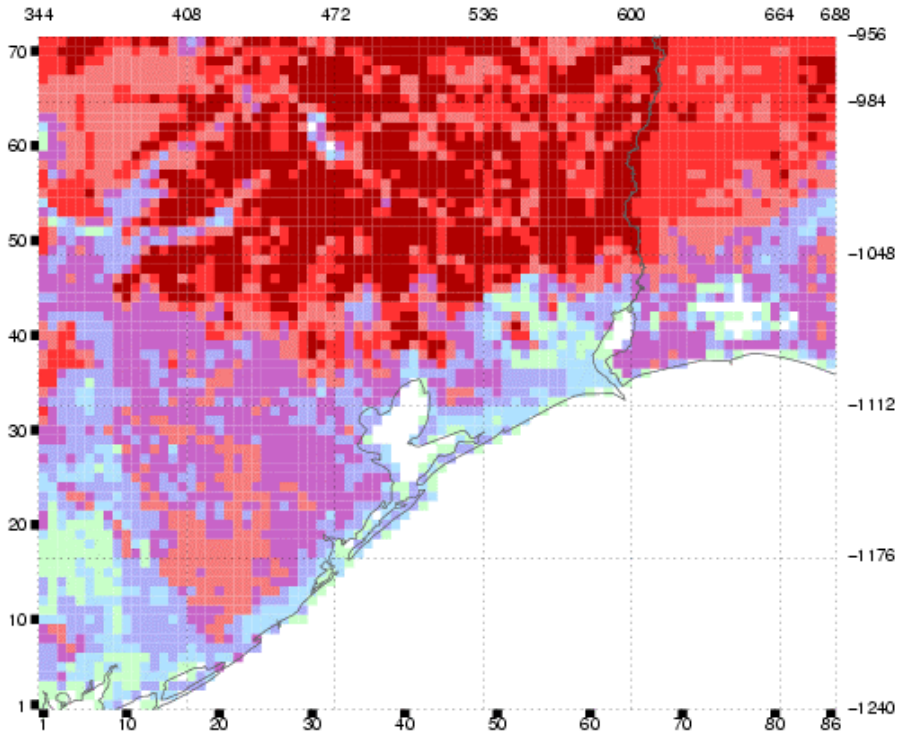
Max: 3.655 t/d (534, –958); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 09/03/2000

(4x4 Km Grid Cells)



Emissions Plotted

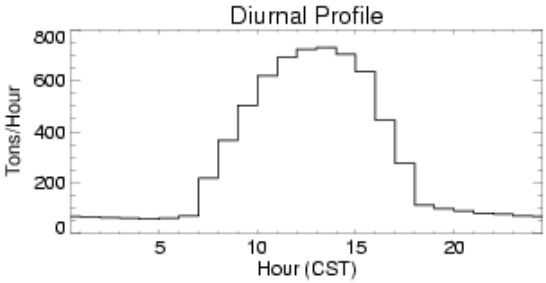
County	Tons/Day
Brazoria	207.59
Chambers	62.61
Fort Bend	124.58
Galveston	25.86
Harris	326.06
Liberty	476.81
Montgomery	502.85
Waller	107.23
HG SUBTOTAL:	1833.59
Hardin	424.97
Jefferson	70.29
Orange	105.74
BPA SUBTOTAL:	601.00
MAP TOTAL:	6889.41

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

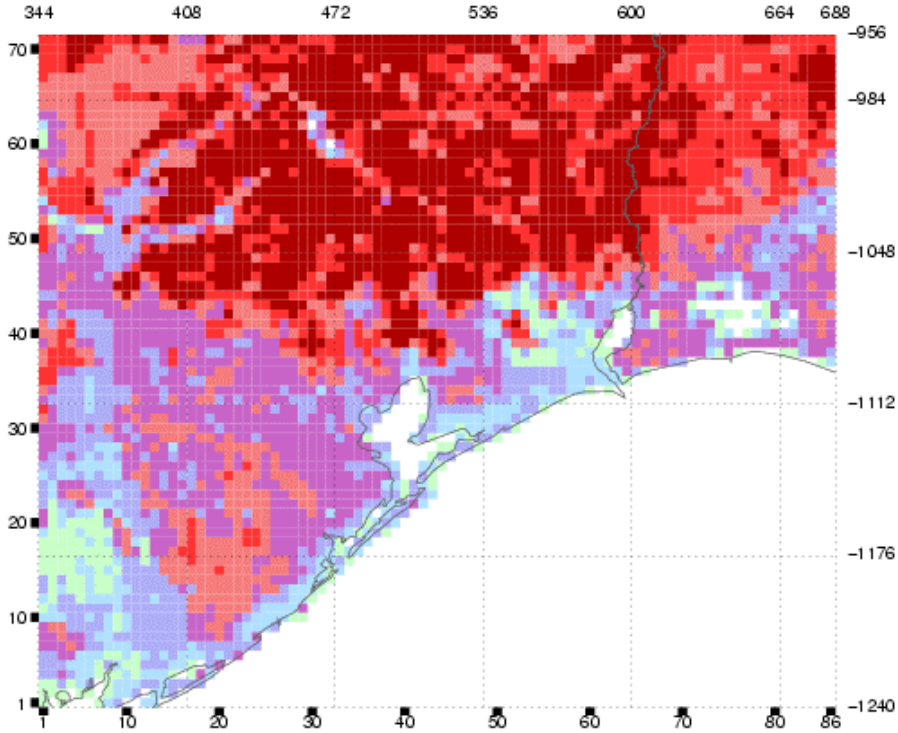
Max: 3.761 t/d (394, –1050); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 09/04/2000

(4x4 Km Grid Cells)



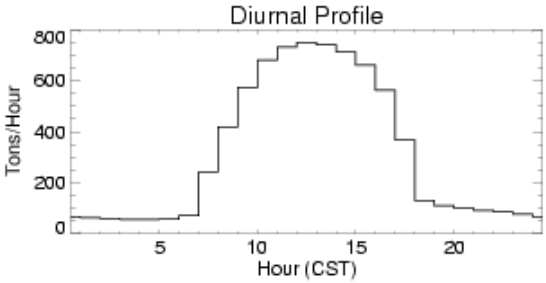
Emissions Plotted

County	Tons/Day
Brazoria	227.45
Chambers	67.96
Fort Bend	131.24
Galveston	28.29
Harris	347.46
Liberty	518.06
Montgomery	543.79
Waller	113.47
HG SUBTOTAL:	1977.71
Hardin	468.50
Jefferson	77.88
Orange	116.40
BPA SUBTOTAL:	662.78
MAP TOTAL:	7464.97

Legend (Tons/Day)

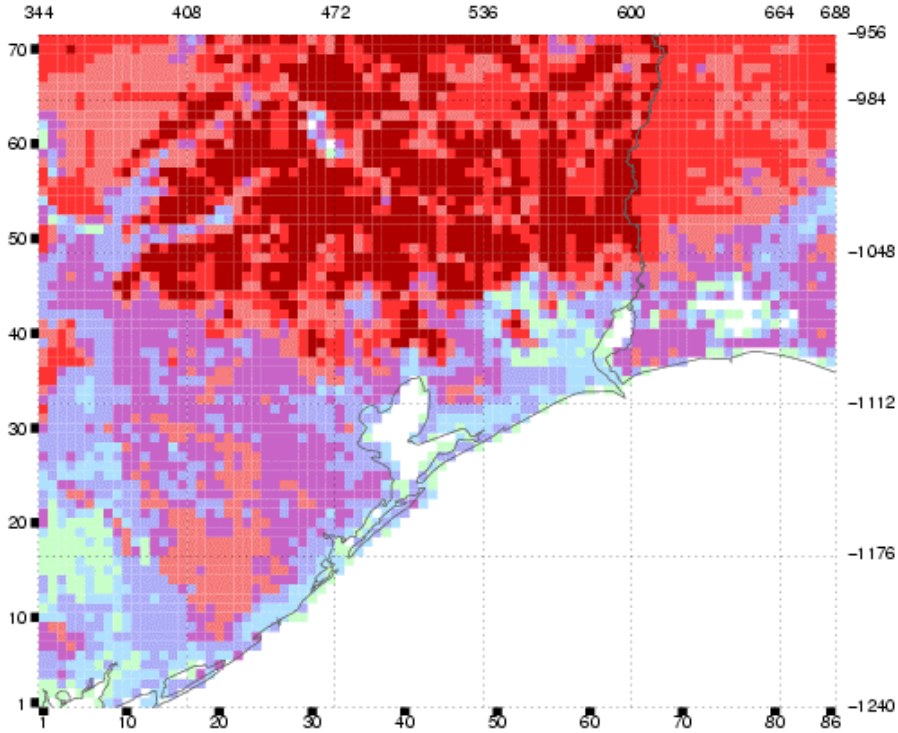
< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

Max: 4.064 t/d (398, –998); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic CB–IV HC Emissions, 09/05/2000

(4x4 Km Grid Cells)



Emissions Plotted

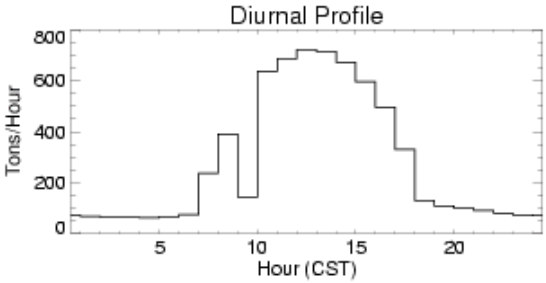
County	Tons/Day
Brazoria	202.87
Chambers	64.94
Fort Bend	119.64
Galveston	26.00
Harris	316.34
Liberty	469.19
Montgomery	490.34
Waller	104.44
HG SUBTOTAL:	1793.76
Hardin	429.65
Jefferson	74.77
Orange	110.34
BPA SUBTOTAL:	614.76
MAP TOTAL:	6690.60

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

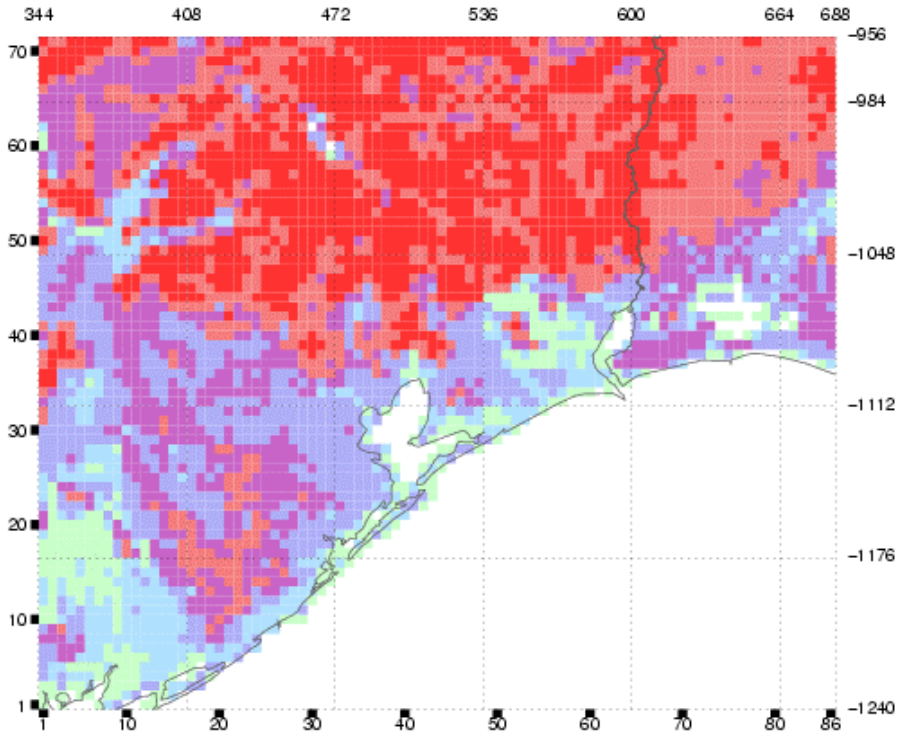
Max: 3.709 t/d (398, –1058); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic CB–IV HC Emissions, 09/06/2000

(4x4 Km Grid Cells)



Emissions Plotted

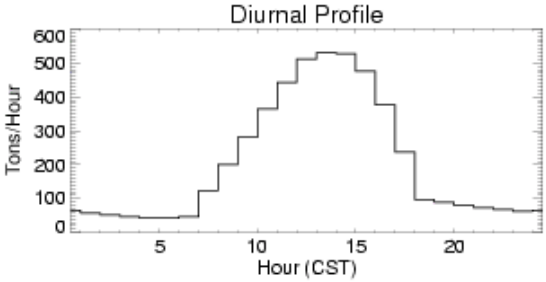
County	Tons/Day
Brazoria	144.47
Chambers	42.85
Fort Bend	89.30
Galveston	16.67
Harris	222.21
Liberty	330.97
Montgomery	347.37
Waller	77.81
HG SUBTOTAL:	1271.64
Hardin	305.84
Jefferson	51.39
Orange	78.59
BPA SUBTOTAL:	435.83
MAP TOTAL:	4897.13

Legend (Tons/Day)

< 0.01 | 0.01 – 0.10 | 0.10 – 0.20 | 0.20 – 0.50
0.50 – 1.00 | 1.00 – 2.00 | 2.00 – 3.00 | >= 3.00

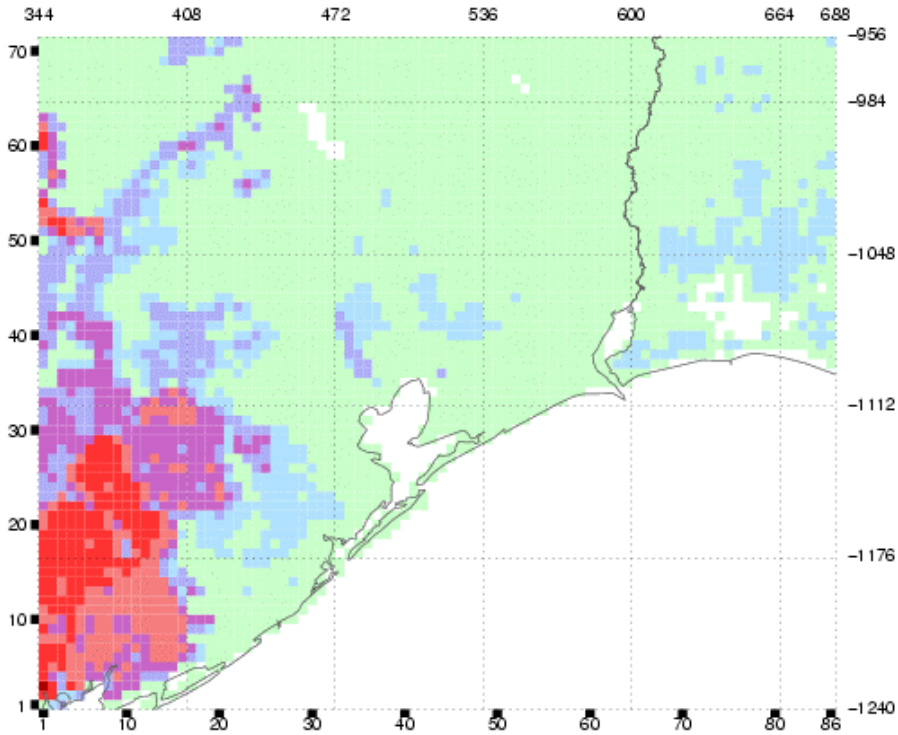
Max: 2.719 t/d (382, –1062); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 08/10/2000

(4x4 Km Grid Cells)



Emissions Plotted

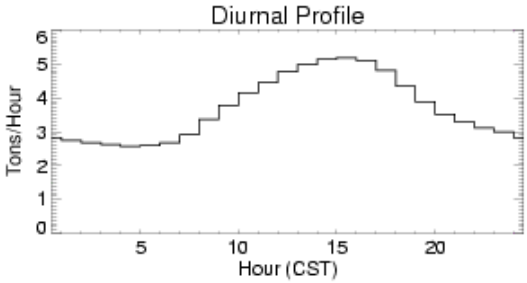
County	Tons/Day
Brazoria	2.18
Chambers	0.37
Fort Bend	10.02
Galveston	0.24
Harris	2.97
Liberty	1.25
Montgomery	0.62
Waller	1.11
HG SUBTOTAL:	18.77
Hardin	0.42
Jefferson	0.77
Orange	0.22
BPA SUBTOTAL:	1.41
MAP TOTAL:	88.51

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

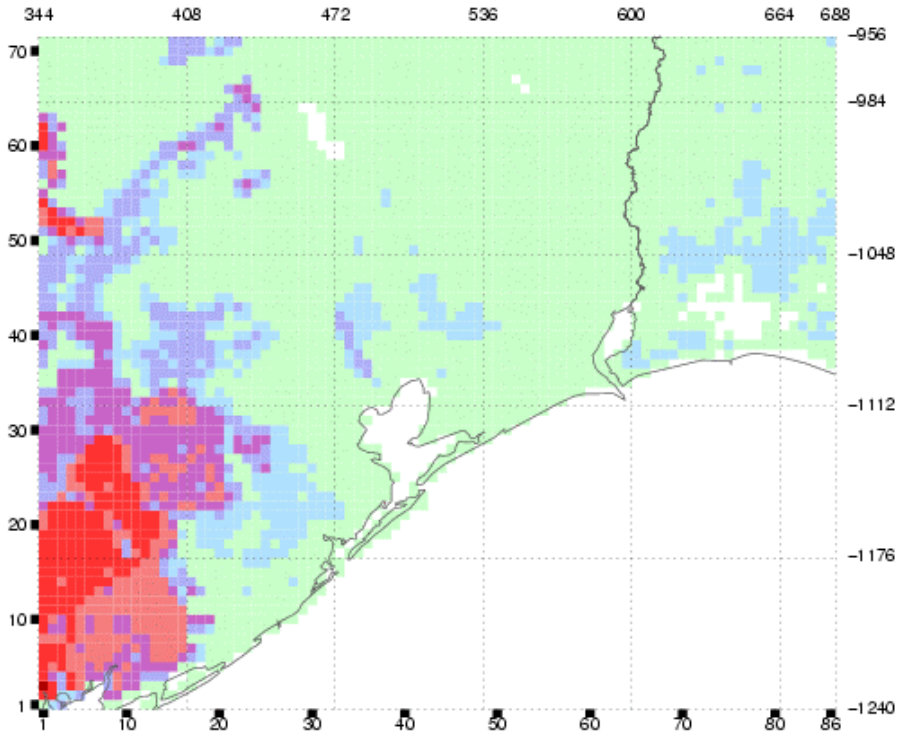
Max: 0.202 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



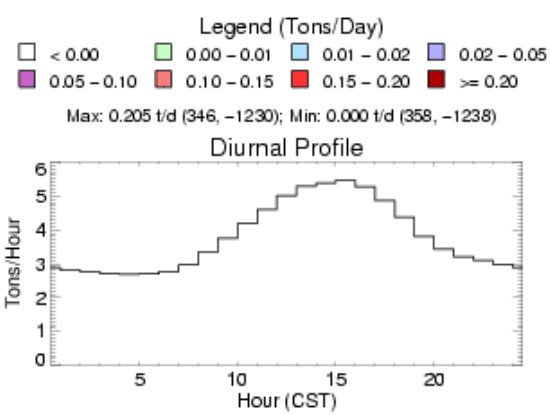
hgbpa_04km Biogenic NO_x Emissions, 08/11/2000

(4x4 Km Grid Cells)



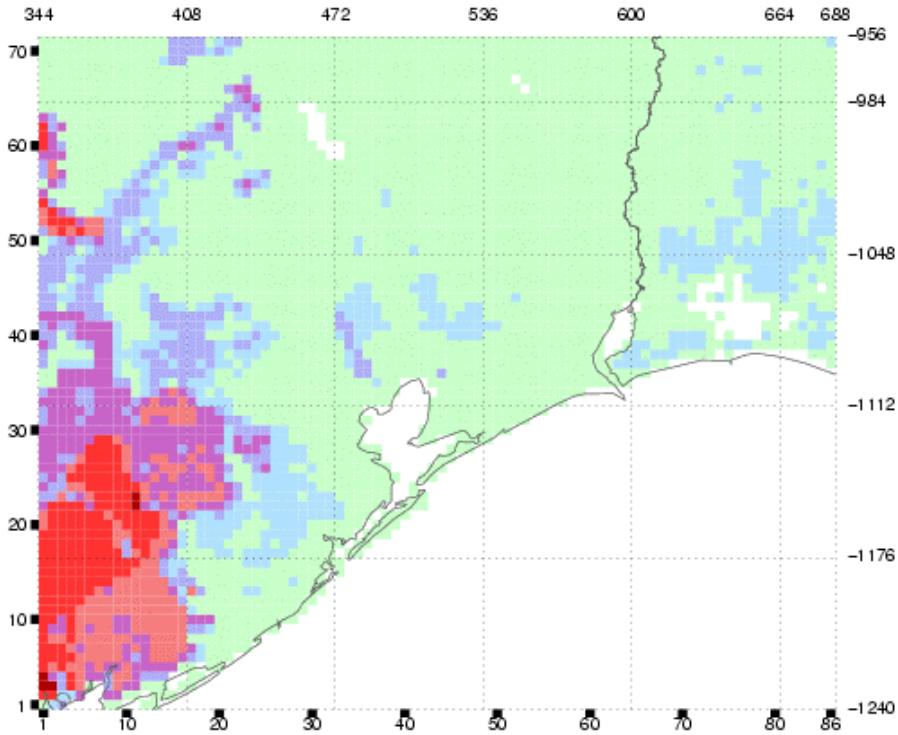
Emissions Plotted

County	Tons/Day
Brazoria	2.19
Chambers	0.35
Fort Bend	10.25
Galveston	0.23
Harris	3.01
Liberty	1.21
Montgomery	0.63
Waller	1.15
HG SUBTOTAL:	19.03
Hardin	0.40
Jefferson	0.72
Orange	0.21
BPA SUBTOTAL:	1.33
MAP TOTAL:	90.36



hgbpa_04km Biogenic NO_x Emissions, 08/12/2000

(4x4 Km Grid Cells)



Emissions Plotted

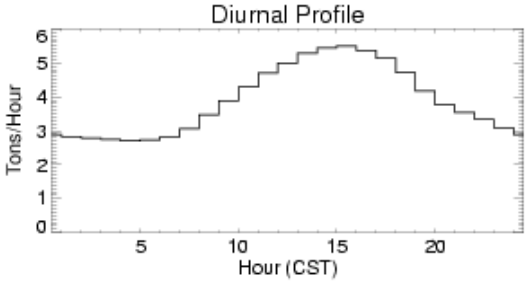
County	Tons/Day
Brazoria	2.26
Chambers	0.37
Fort Bend	10.51
Galveston	0.24
Harris	3.05
Liberty	1.25
Montgomery	0.64
Waller	1.18
HG SUBTOTAL:	19.49
Hardin	0.42
Jefferson	0.76
Orange	0.22
BPA SUBTOTAL:	1.40
MAP TOTAL:	93.30

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

Max: 0.215 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

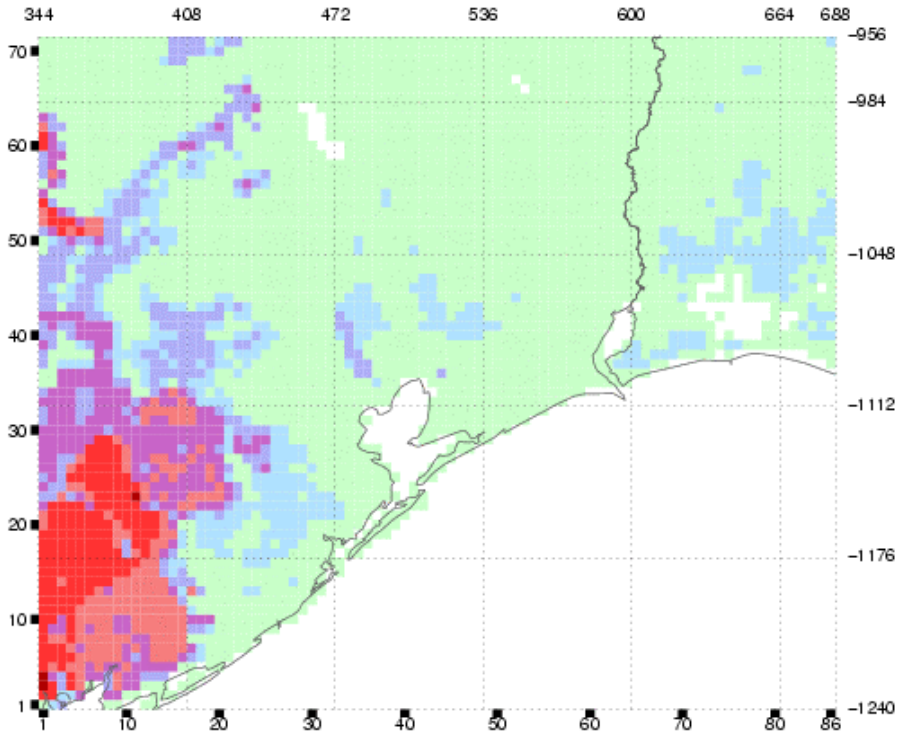
Diurnal Profile



TNRCC MESTES: 04/06/2004 13:39:05 /s/bio/emissions/hgbpa_04km/bio_emis_000812_hgbpa_04km_saskingT_lonezPAR_g31.bin

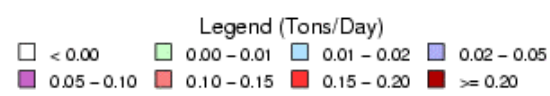
hgbpa_04km Biogenic NO_x Emissions, 08/13/2000

(4x4 Km Grid Cells)

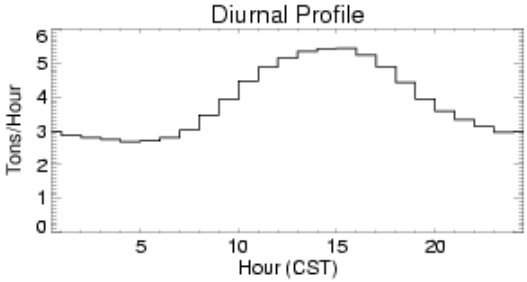


Emissions Plotted

County	Tons/Day
Brazoria	2.26
Chambers	0.37
Fort Bend	10.48
Galveston	0.24
Harris	3.05
Liberty	1.24
Montgomery	0.63
Waller	1.16
HG SUBTOTAL:	19.44
Hardin	0.41
Jefferson	0.77
Orange	0.22
BPA SUBTOTAL:	1.40
MAP TOTAL:	92.12

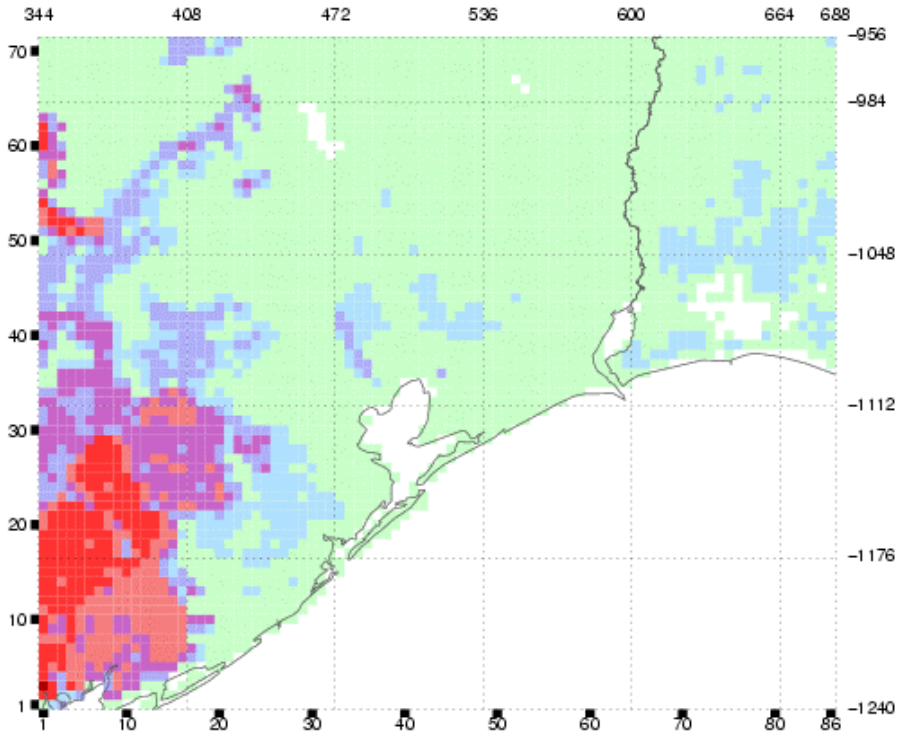


Max: 0.212 t/d (346, −1230); Min: 0.000 t/d (358, −1238)



hgbpa_04km Biogenic NO_x Emissions, 08/18/2000

(4x4 Km Grid Cells)



Emissions Plotted

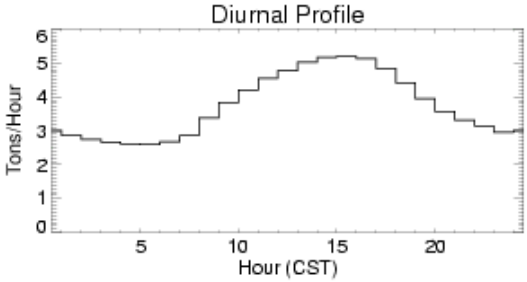
County	Tons/Day
Brazoria	2.19
Chambers	0.36
Fort Bend	10.09
Galveston	0.24
Harris	2.99
Liberty	1.23
Montgomery	0.63
Waller	1.13
HG SUBTOTAL:	18.87
Hardin	0.42
Jefferson	0.75
Orange	0.22
BPA SUBTOTAL:	1.39
MAP TOTAL:	89.44

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

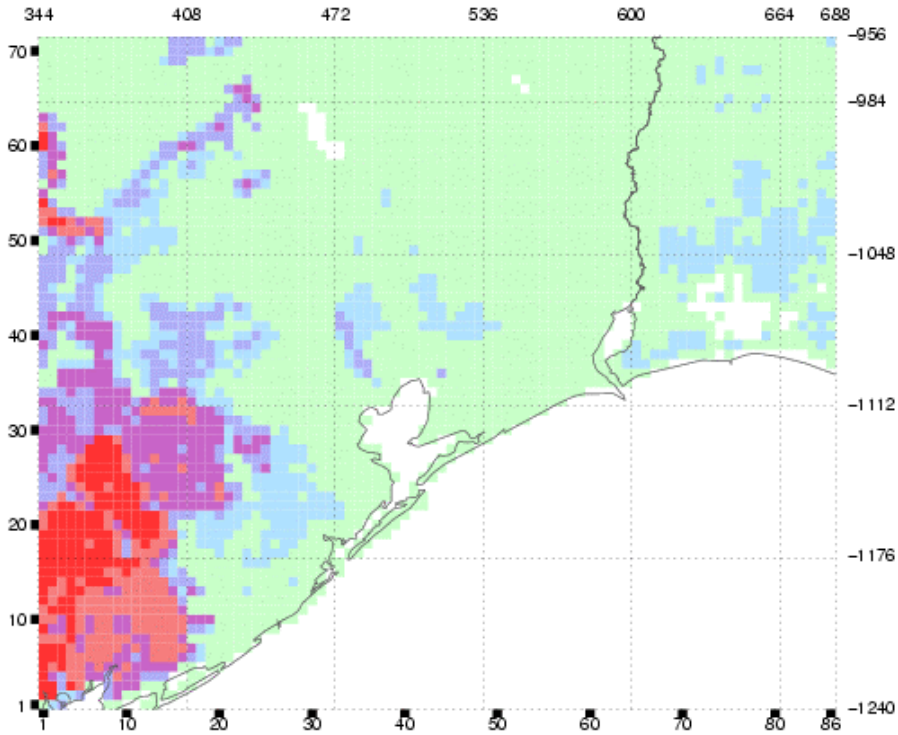
Max: 0.202 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 08/19/2000

(4x4 Km Grid Cells)



Emissions Plotted

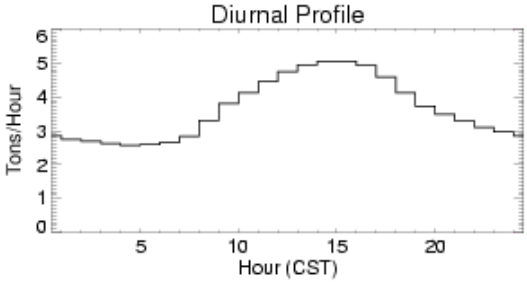
County	Tons/Day
Brazoria	2.15
Chambers	0.36
Fort Bend	9.79
Galveston	0.23
Harris	2.91
Liberty	1.23
Montgomery	0.62
Waller	1.09
HG SUBTOTAL:	18.39
Hardin	0.42
Jefferson	0.75
Orange	0.22
BPA SUBTOTAL:	1.38
MAP TOTAL:	87.25

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

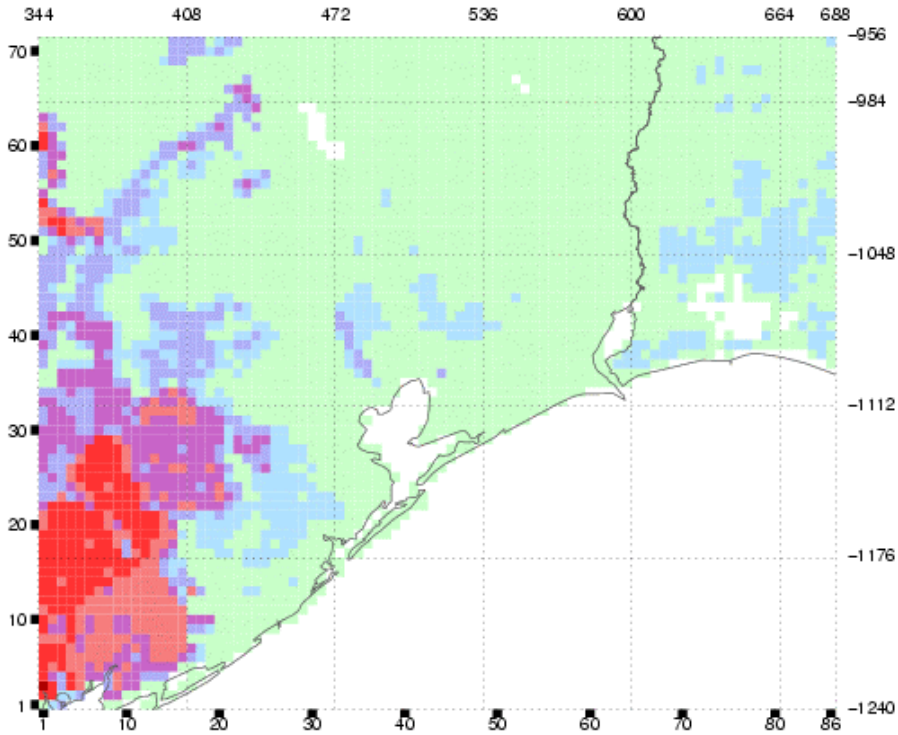
Max: 0.200 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 08/20/2000

(4x4 Km Grid Cells)



Emissions Plotted

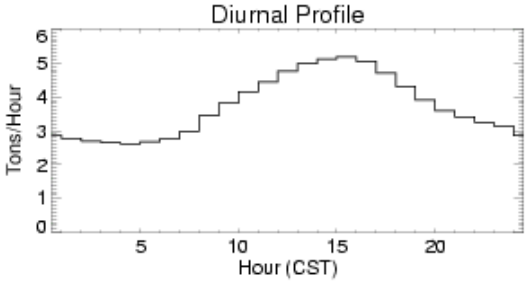
County	Tons/Day
Brazoria	2.20
Chambers	0.37
Fort Bend	9.99
Galveston	0.24
Harris	2.93
Liberty	1.24
Montgomery	0.62
Waller	1.11
HG SUBTOTAL:	18.70
Hardin	0.42
Jefferson	0.77
Orange	0.22
BPA SUBTOTAL:	1.41
MAP TOTAL:	89.25

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

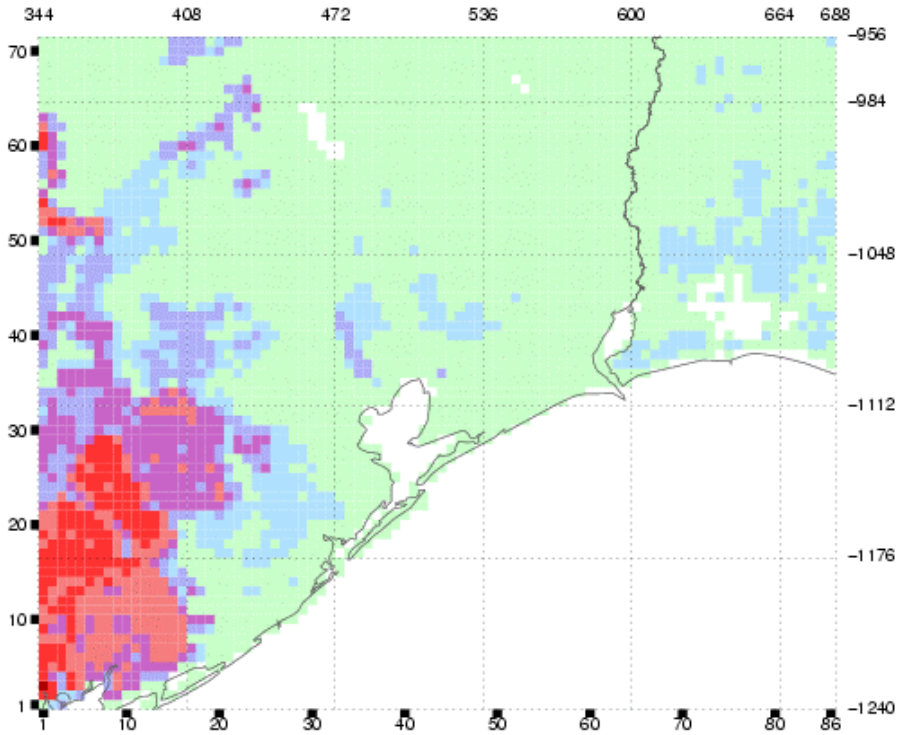
Max: 0.205 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



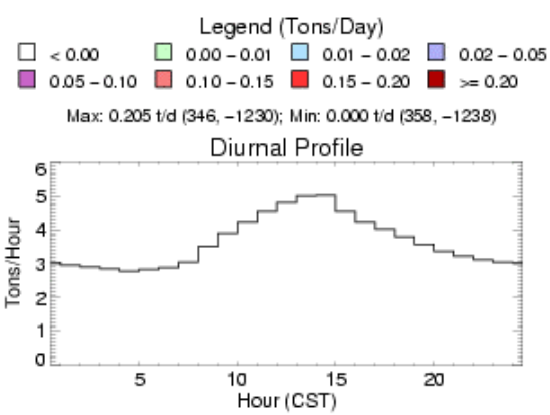
hgbpa_04km Biogenic NO_x Emissions, 08/21/2000

(4x4 Km Grid Cells)



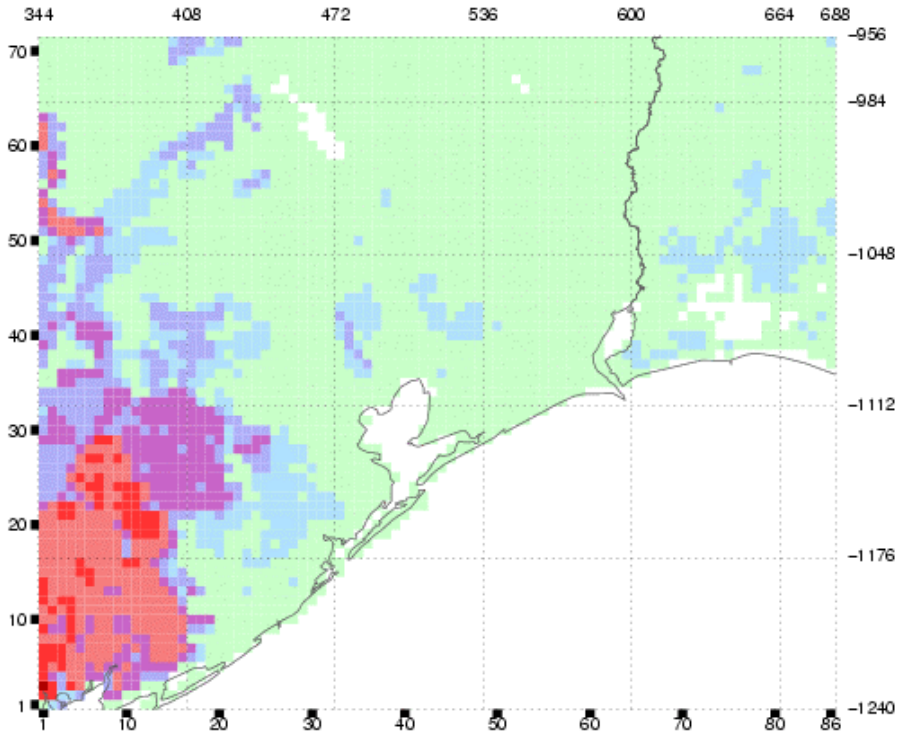
Emissions Plotted

County	Tons/Day
Brazoria	2.21
Chambers	0.37
Fort Bend	9.89
Galveston	0.24
Harris	2.98
Liberty	1.26
Montgomery	0.62
Waller	1.09
HG SUBTOTAL:	18.66
Hardin	0.42
Jefferson	0.77
Orange	0.22
BPA SUBTOTAL:	1.42
MAP TOTAL:	87.19



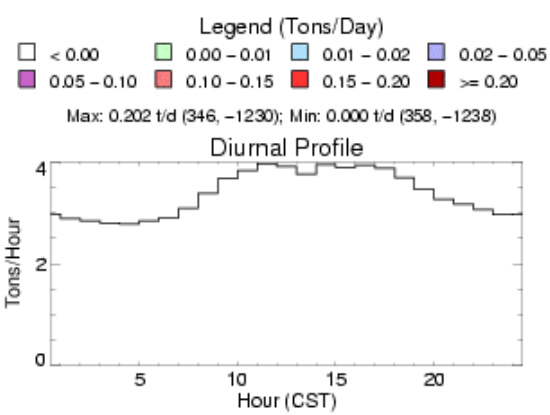
hgbpa_04km Biogenic NO_x Emissions, 08/22/2000

(4x4 Km Grid Cells)



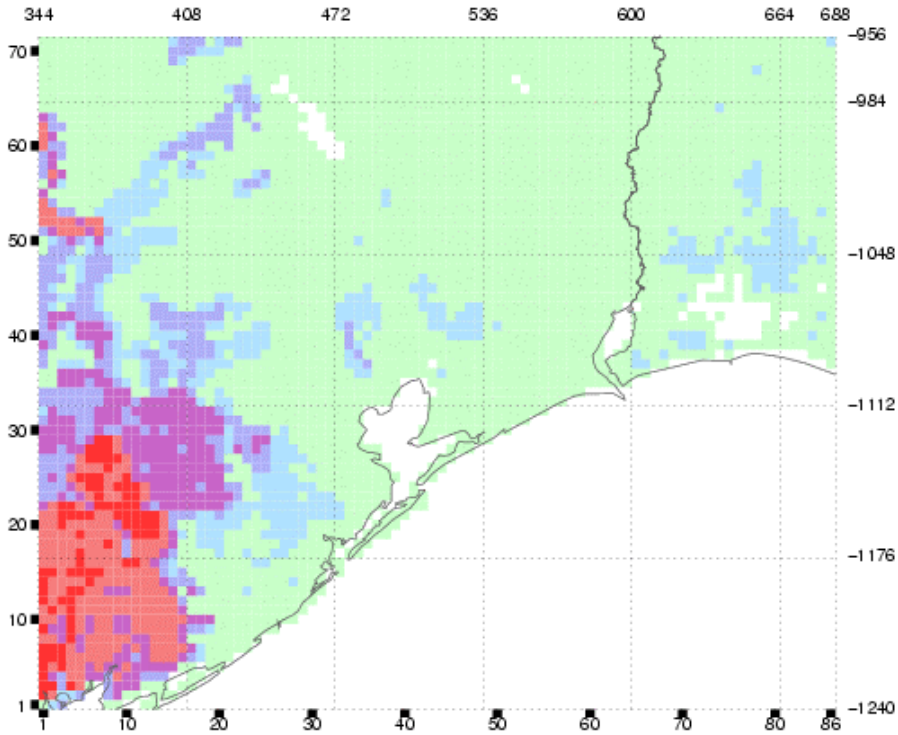
Emissions Plotted

County	Tons/Day
Brazoria	2.09
Chambers	0.35
Fort Bend	9.10
Galveston	0.23
Harris	2.63
Liberty	1.10
Montgomery	0.51
Waller	0.96
HG SUBTOTAL:	16.97
Hardin	0.37
Jefferson	0.71
Orange	0.20
BPA SUBTOTAL:	1.28
MAP TOTAL:	80.95



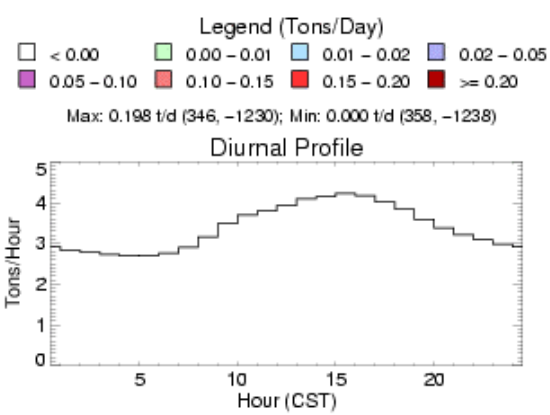
hgbpa_04km Biogenic NO_x Emissions, 08/23/2000

(4x4 Km Grid Cells)



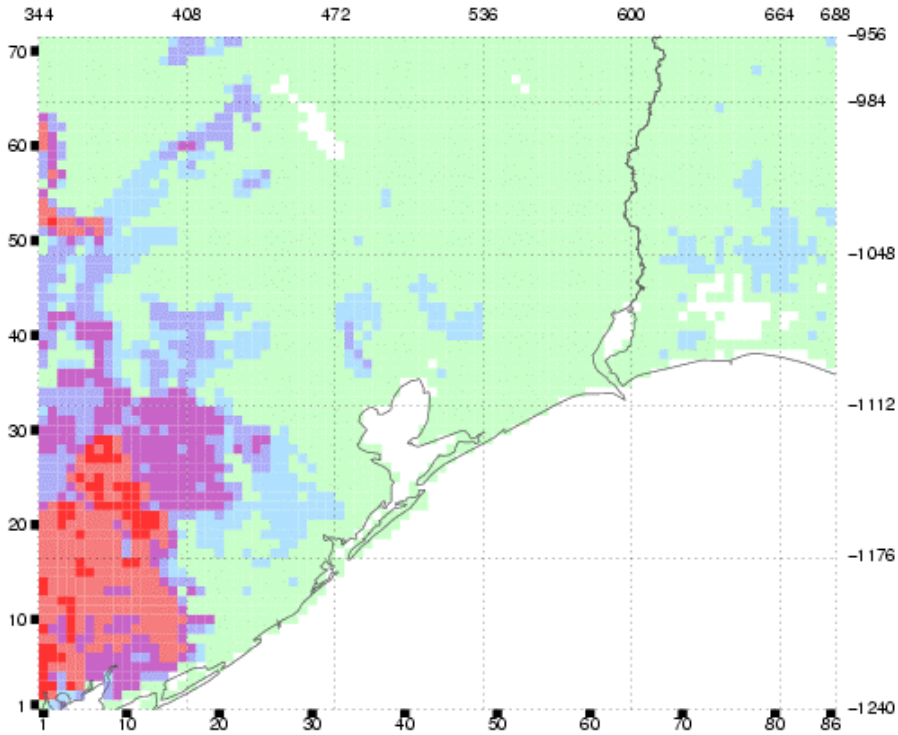
Emissions Plotted

County	Tons/Day
Brazoria	2.02
Chambers	0.33
Fort Bend	9.06
Galveston	0.22
Harris	2.55
Liberty	1.04
Montgomery	0.51
Waller	0.98
HG SUBTOTAL:	16.70
Hardin	0.35
Jefferson	0.68
Orange	0.19
BPA SUBTOTAL:	1.23
MAP TOTAL:	81.20



hgbpa_04km Biogenic NO_x Emissions, 08/24/2000

(4x4 Km Grid Cells)



Emissions Plotted

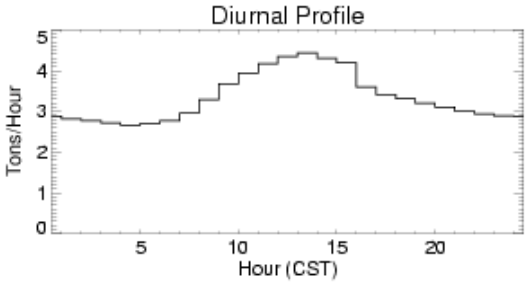
County	Tons/Day
Brazoria	1.93
Chambers	0.32
Fort Bend	8.88
Galveston	0.21
Harris	2.55
Liberty	1.03
Montgomery	0.53
Waller	0.99
HG SUBTOTAL:	16.44
Hardin	0.35
Jefferson	0.64
Orange	0.18
BPA SUBTOTAL:	1.17
MAP TOTAL:	80.13

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

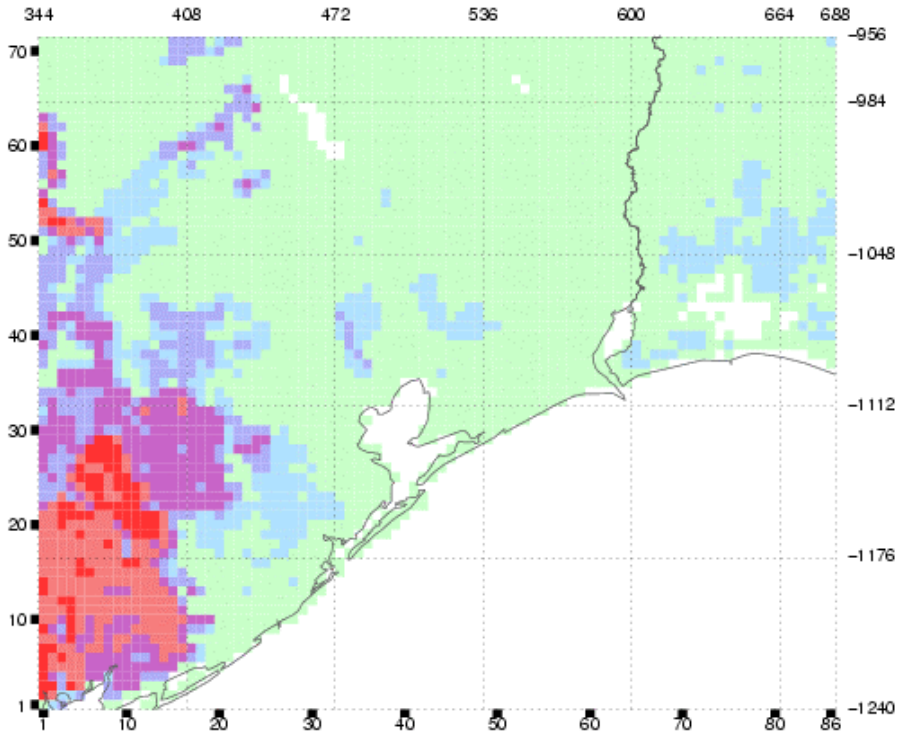
Max: 0.195 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



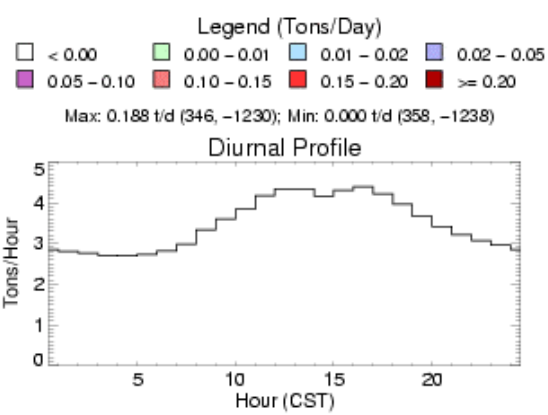
hgbpa_04km Biogenic NO_x Emissions, 08/25/2000

(4x4 Km Grid Cells)



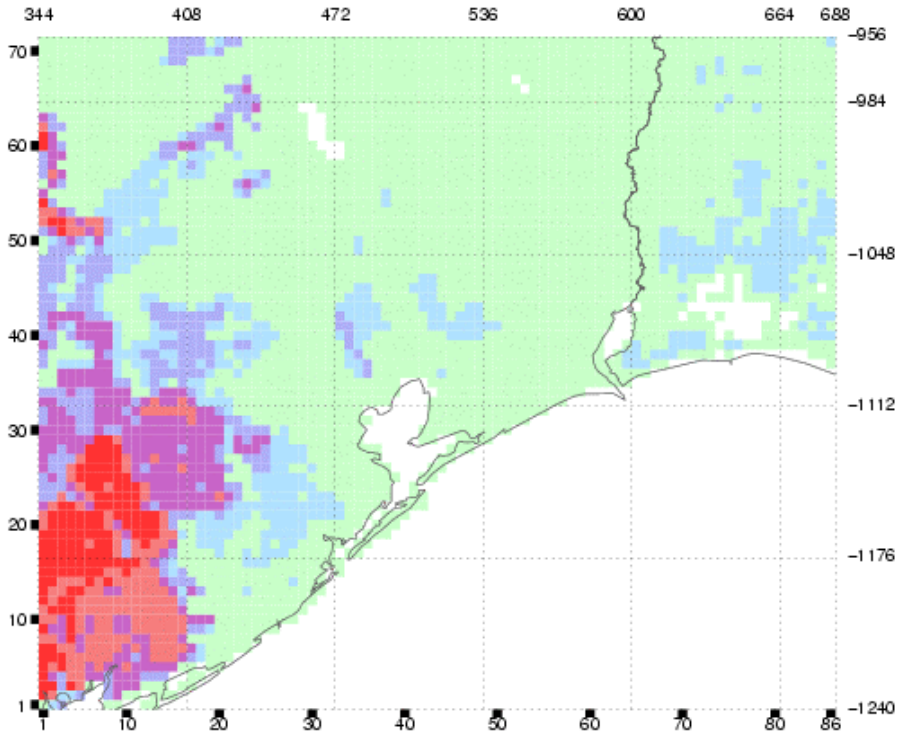
Emissions Plotted

County	Tons/Day
Brazoria	2.06
Chambers	0.35
Fort Bend	9.42
Galveston	0.22
Harris	2.80
Liberty	1.16
Montgomery	0.59
Waller	1.06
HG SUBTOTAL:	17.65
Hardin	0.39
Jefferson	0.72
Orange	0.21
BPA SUBTOTAL:	1.31
MAP TOTAL:	83.32



hgbpa_04km Biogenic NO_x Emissions, 08/26/2000

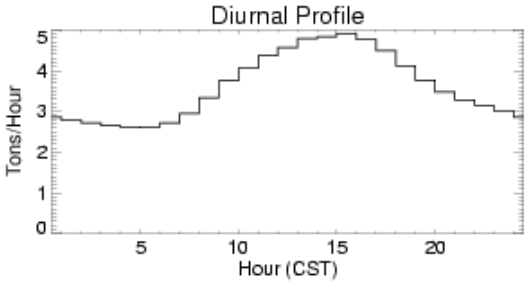
(4x4 Km Grid Cells)



Emissions Plotted

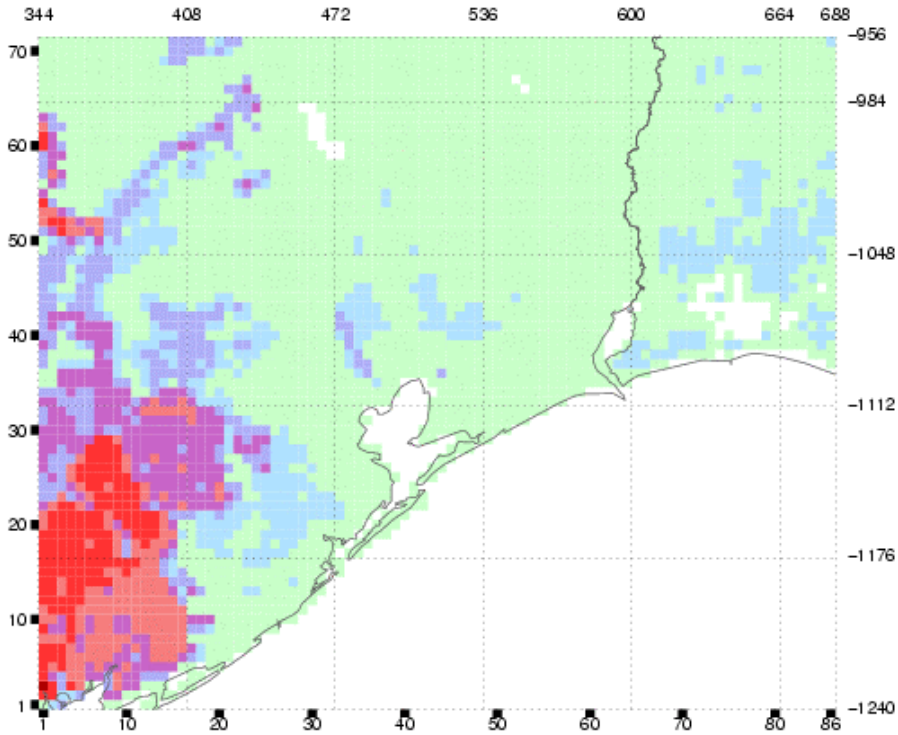
County	Tons/Day
Brazoria	2.14
Chambers	0.36
Fort Bend	9.74
Galveston	0.23
Harris	2.88
Liberty	1.20
Montgomery	0.61
Waller	1.09
HG SUBTOTAL:	18.23
Hardin	0.41
Jefferson	0.74
Orange	0.21
BPA SUBTOTAL:	1.36
MAP TOTAL:	86.62

Max: 0.197 t/d (346, −1230); Min: 0.000 t/d (358, −1238)



hgbpa_04km Biogenic NO_x Emissions, 08/27/2000

(4x4 Km Grid Cells)



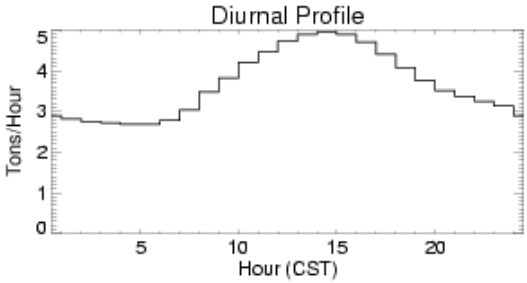
Emissions Plotted

County	Tons/Day
Brazoria	2.17
Chambers	0.37
Fort Bend	9.82
Galveston	0.24
Harris	2.89
Liberty	1.23
Montgomery	0.61
Waller	1.09
HG SUBTOTAL:	18.42
Hardin	0.42
Jefferson	0.76
Orange	0.22
BPA SUBTOTAL:	1.40
MAP TOTAL:	87.99

Legend (Tons/Day)

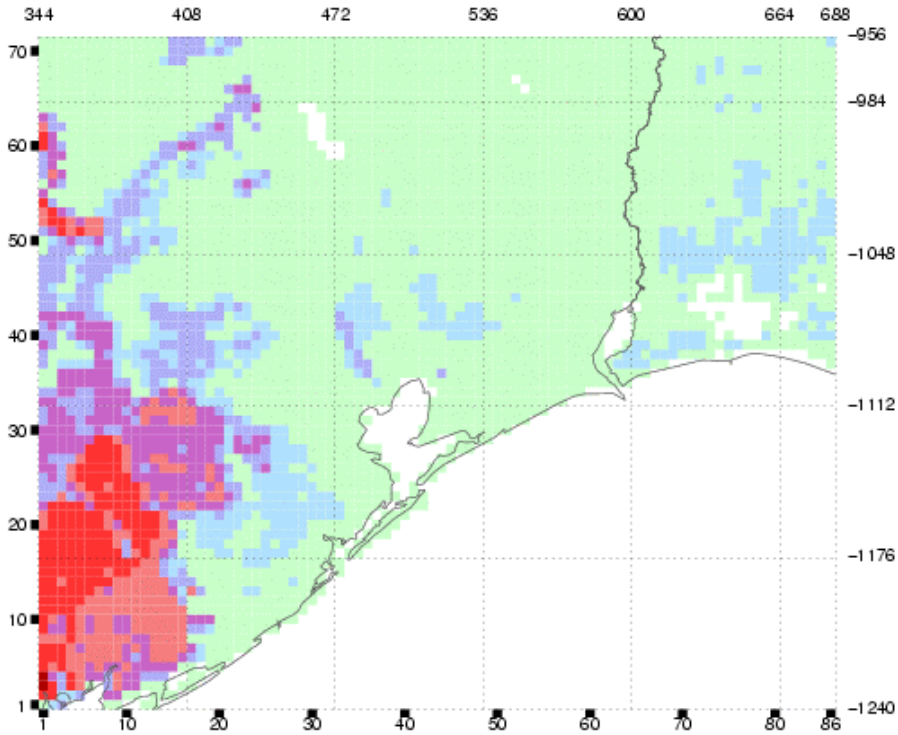
< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

Max: 0.203 t/d (346, –1230); Min: 0.000 t/d (358, –1238)



hgbpa_04km Biogenic NO_x Emissions, 08/28/2000

(4x4 Km Grid Cells)



Emissions Plotted

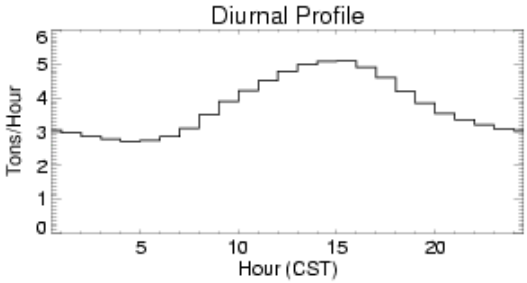
County	Tons/Day
Brazoria	2.20
Chambers	0.37
Fort Bend	10.10
Galveston	0.24
Harris	2.98
Liberty	1.24
Montgomery	0.62
Waller	1.13
HG SUBTOTAL:	18.88
Hardin	0.42
Jefferson	0.76
Orange	0.22
BPA SUBTOTAL:	1.40
MAP TOTAL:	89.87

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

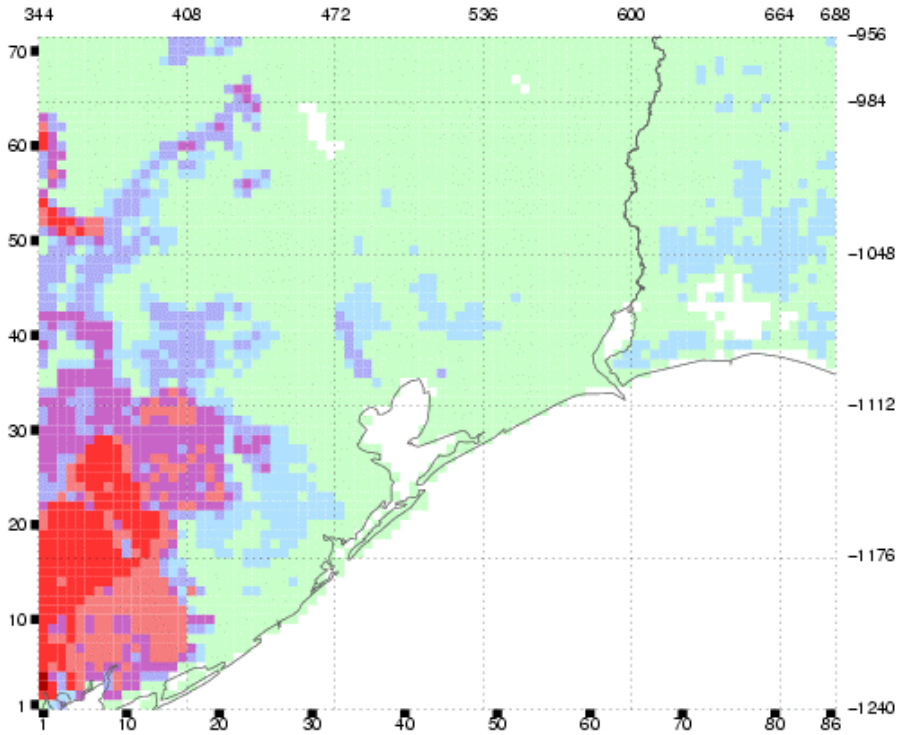
Max: 0.209 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 08/29/2000

(4x4 Km Grid Cells)



Emissions Plotted

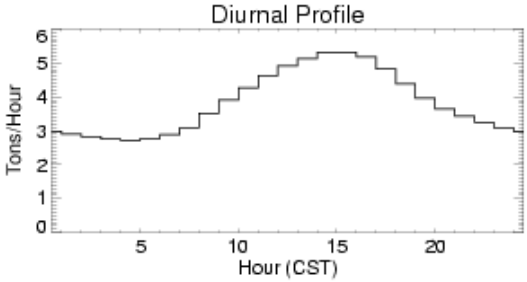
County	Tons/Day
Brazoria	2.23
Chambers	0.37
Fort Bend	10.31
Galveston	0.24
Harris	3.05
Liberty	1.27
Montgomery	0.64
Waller	1.15
HG SUBTOTAL:	19.27
Hardin	0.43
Jefferson	0.78
Orange	0.23
BPA SUBTOTAL:	1.43
MAP TOTAL:	91.71

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

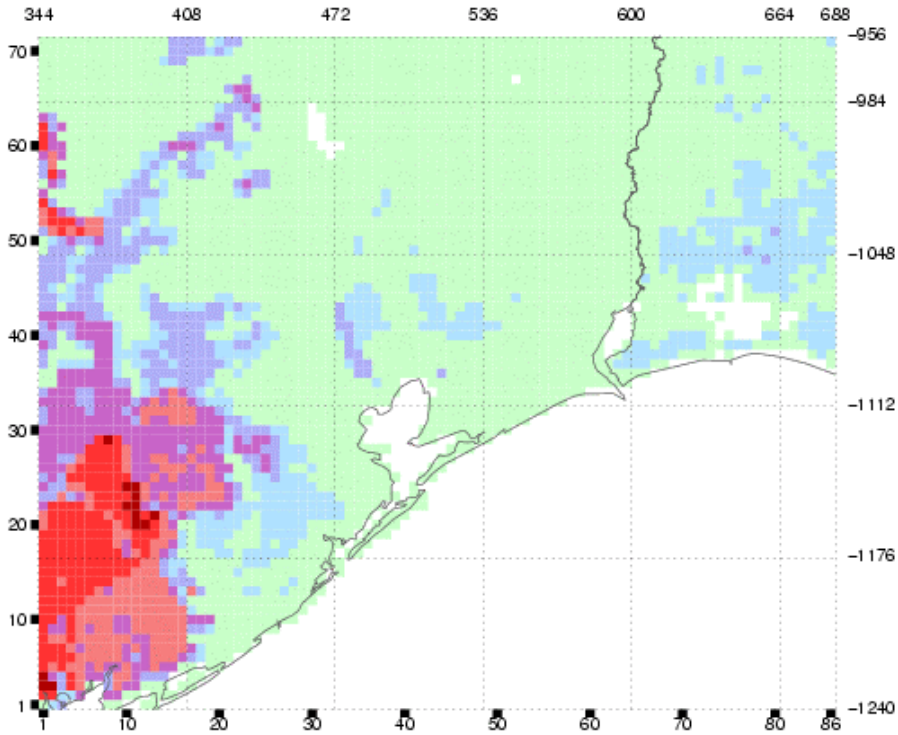
Max: 0.212 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 08/30/2000

(4x4 Km Grid Cells)



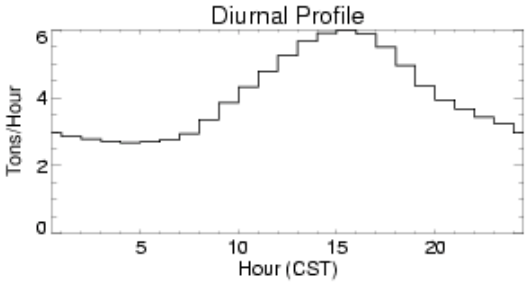
Emissions Plotted

County	Tons/Day
Brazoria	2.35
Chambers	0.40
Fort Bend	10.97
Galveston	0.25
Harris	3.30
Liberty	1.38
Montgomery	0.69
Waller	1.23
HG SUBTOTAL:	20.58
Hardin	0.47
Jefferson	0.85
Orange	0.25
BPA SUBTOTAL:	1.57
MAP TOTAL:	96.54

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

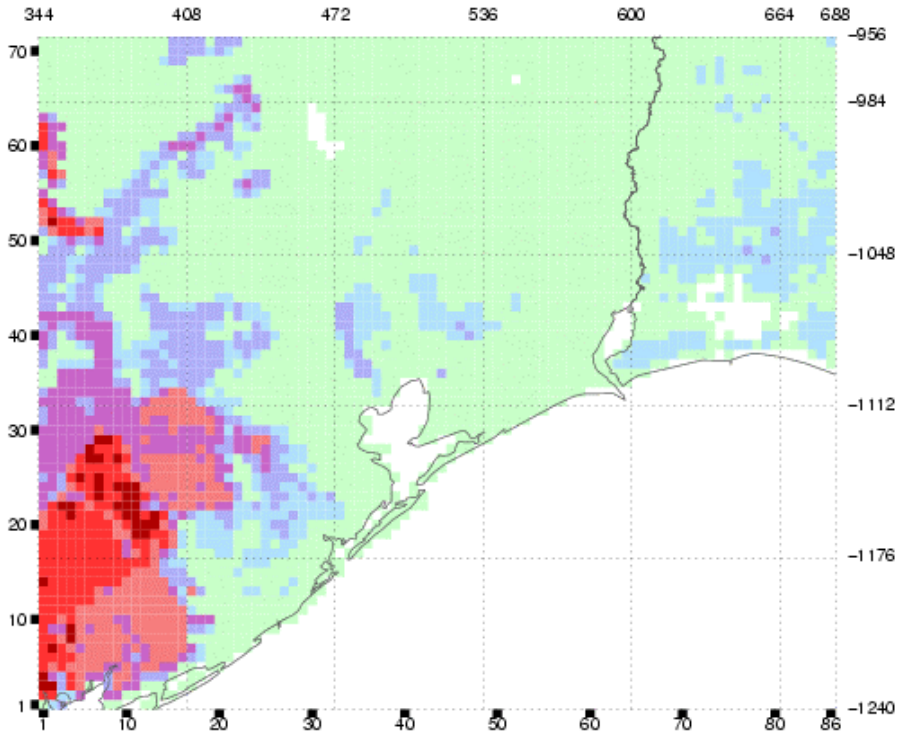
Max: 0.214 t/d (346, –1230); Min: 0.000 t/d (358, –1238)



TNRCC MESTES: 04/06/2004 13:33:08 /s/bio/emissions/hgbpa_04km/bio_emis_000830_hgbpa_04km_saskingT_hirozPAR_g3pl.bin

hgbpa_04km Biogenic NO_x Emissions, 08/31/2000

(4x4 Km Grid Cells)



Emissions Plotted

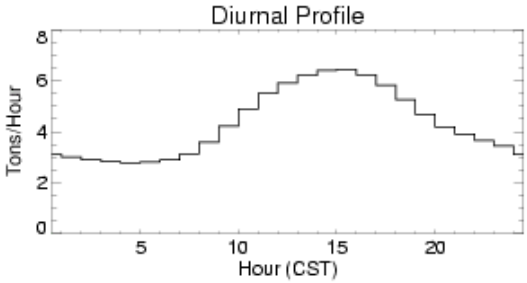
County	Tons/Day
Brazoria	2.56
Chambers	0.44
Fort Bend	12.01
Galveston	0.28
Harris	3.65
Liberty	1.53
Montgomery	0.76
Waller	1.35
HG SUBTOTAL:	22.58
Hardin	0.52
Jefferson	0.93
Orange	0.27
BPA SUBTOTAL:	1.72
MAP TOTAL:	103.92

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

Max: 0.226 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

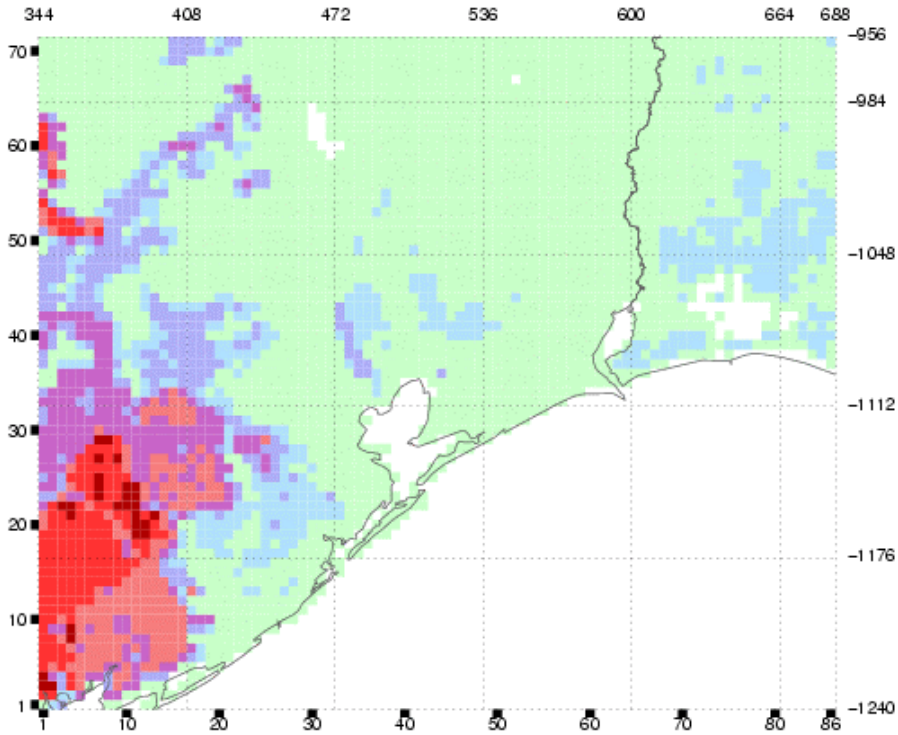
Diurnal Profile



TNRCC MESTES: 04/06/2004 13:33:25 /s/bio/emissions/hgbpa_04km/bio_emis_000831_hgbpa_04km_saskngT_hirezPAR_g3pl.bin

hgbpa_04km Biogenic NO_x Emissions, 09/01/2000

(4x4 Km Grid Cells)



Emissions Plotted

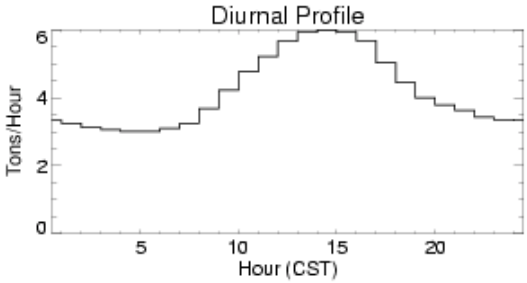
County	Tons/Day
Brazoria	2.43
Chambers	0.40
Fort Bend	11.31
Galveston	0.26
Harris	3.34
Liberty	1.38
Montgomery	0.70
Waller	1.27
HG SUBTOTAL:	21.10
Hardin	0.47
Jefferson	0.84
Orange	0.24
BPA SUBTOTAL:	1.55
MAP TOTAL:	99.95

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

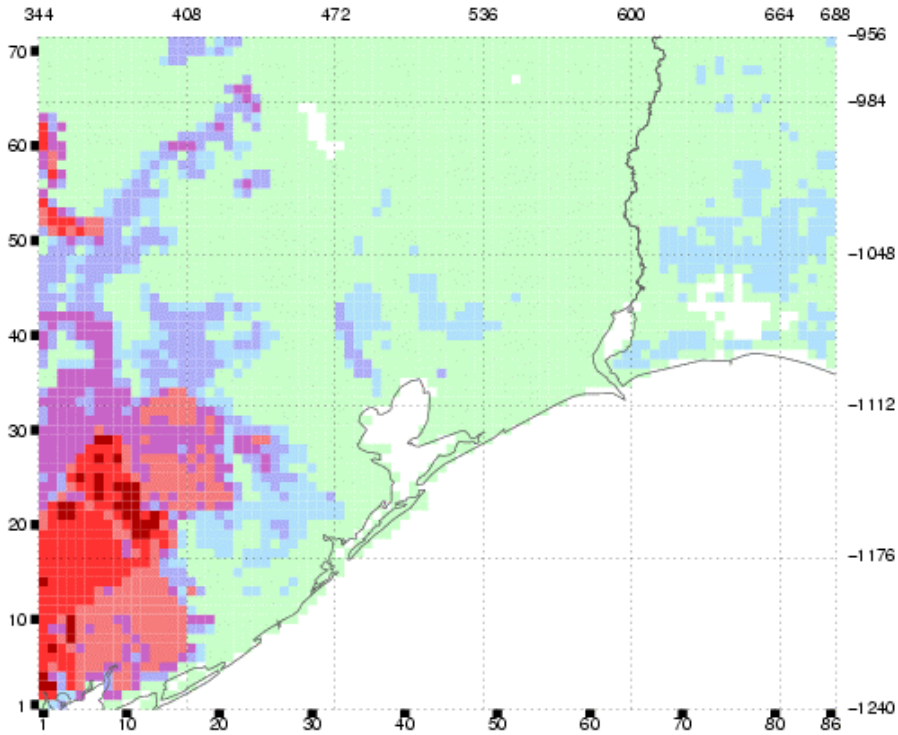
Max: 0.224 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 09/02/2000

(4x4 Km Grid Cells)



Emissions Plotted

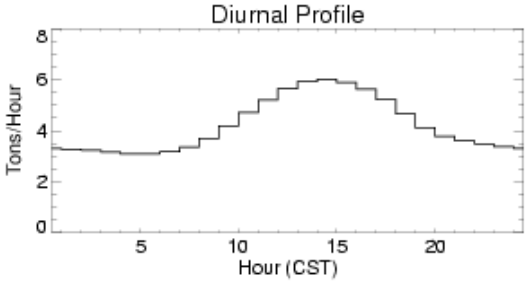
County	Tons/Day
Brazoria	2.47
Chambers	0.41
Fort Bend	11.60
Galveston	0.26
Harris	3.40
Liberty	1.40
Montgomery	0.70
Waller	1.28
HG SUBTOTAL:	21.51
Hardin	0.46
Jefferson	0.84
Orange	0.24
BPA SUBTOTAL:	1.54
MAP TOTAL:	100.98

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

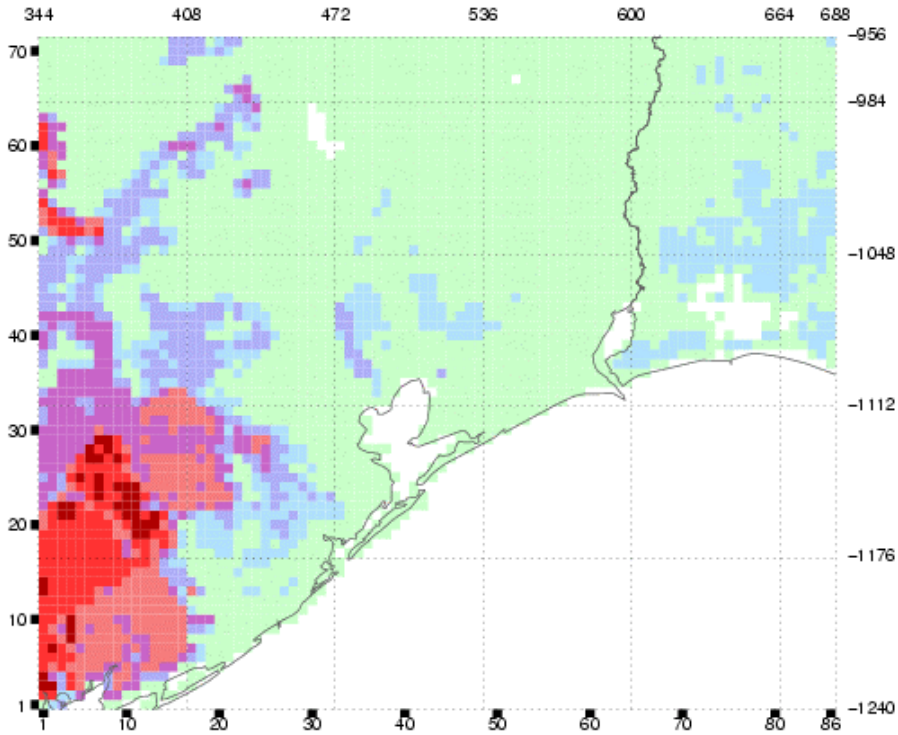
Max: 0.227 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 09/03/2000

(4x4 Km Grid Cells)



Emissions Plotted

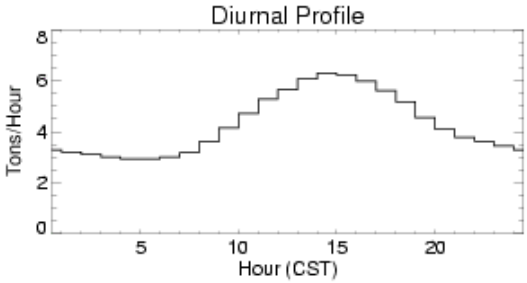
County	Tons/Day
Brazoria	2.54
Chambers	0.42
Fort Bend	11.94
Galveston	0.27
Harris	3.58
Liberty	1.46
Montgomery	0.74
Waller	1.33
HG SUBTOTAL:	22.27
Hardin	0.48
Jefferson	0.85
Orange	0.25
BPA SUBTOTAL:	1.57
MAP TOTAL:	103.04

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

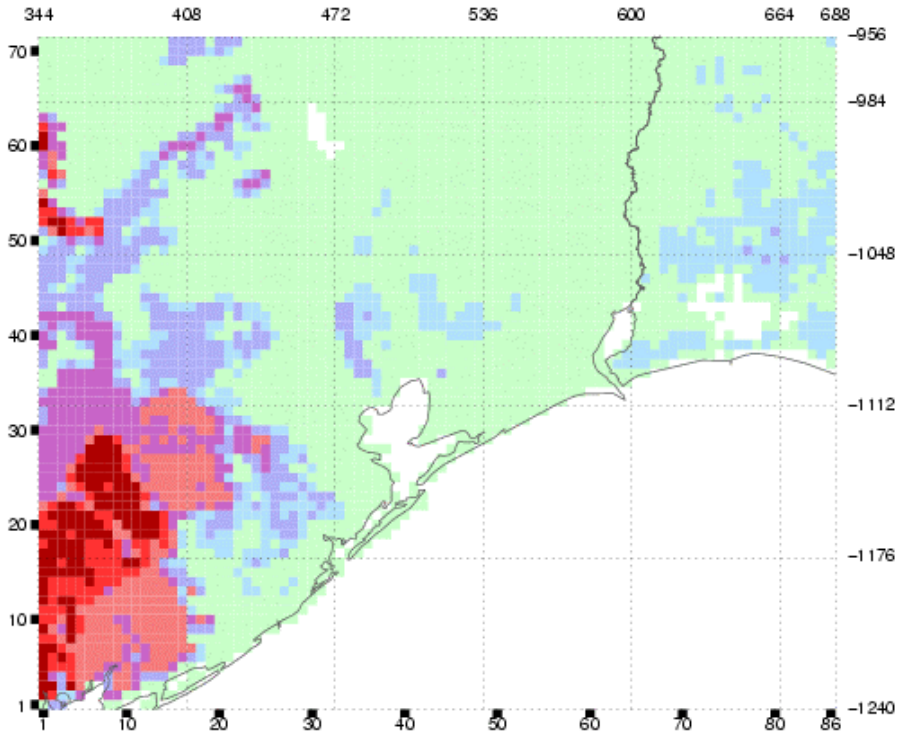
Max: 0.227 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 09/04/2000

(4x4 Km Grid Cells)



Emissions Plotted

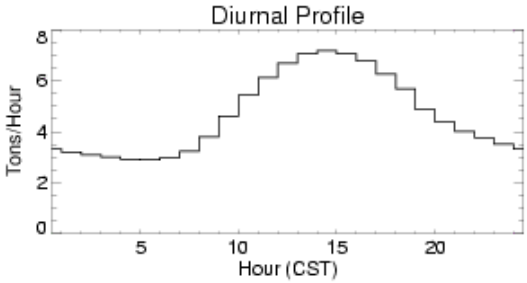
County	Tons/Day
Brazoria	2.70
Chambers	0.44
Fort Bend	12.82
Galveston	0.28
Harris	3.84
Liberty	1.55
Montgomery	0.81
Waller	1.46
HG SUBTOTAL:	23.90
Hardin	0.51
Jefferson	0.90
Orange	0.26
BPA SUBTOTAL:	1.68
MAP TOTAL:	111.99

Legend (Tons/Day)

< 0.00 | 0.00 – 0.01 | 0.01 – 0.02 | 0.02 – 0.05
0.05 – 0.10 | 0.10 – 0.15 | 0.15 – 0.20 | >= 0.20

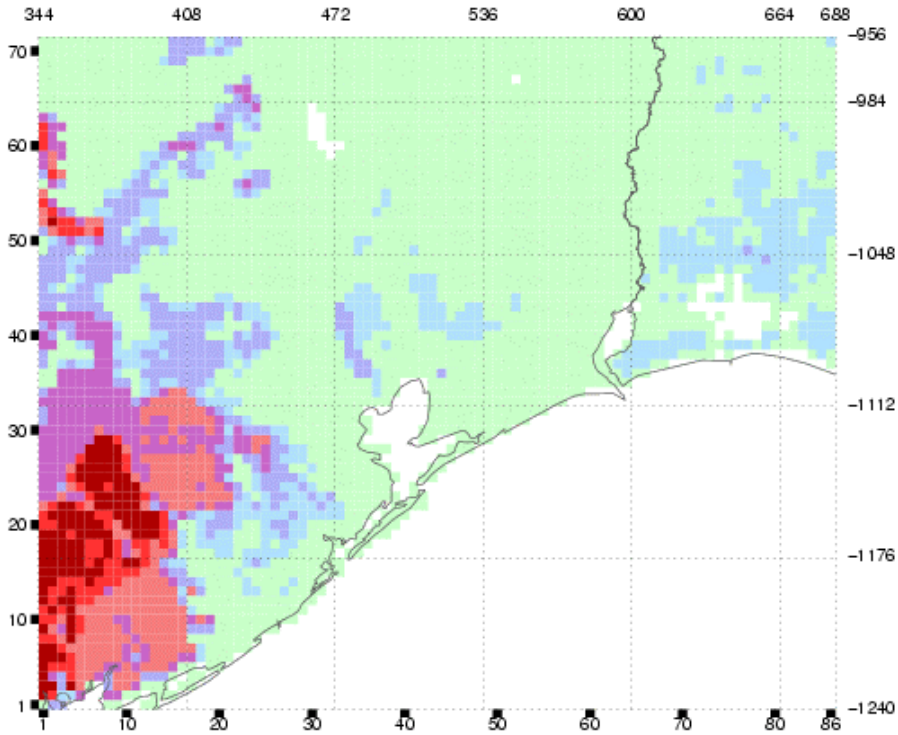
Max: 0.248 t/d (346, –1230); Min: 0.000 t/d (358, –1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 09/05/2000

(4x4 Km Grid Cells)



Emissions Plotted

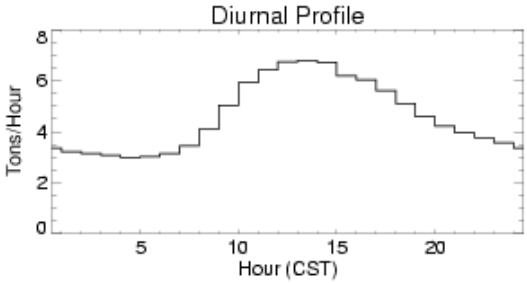
County	Tons/Day
Brazoria	2.64
Chambers	0.45
Fort Bend	12.45
Galveston	0.28
Harris	3.65
Liberty	1.51
Montgomery	0.76
Waller	1.40
HG SUBTOTAL:	23.14
Hardin	0.50
Jefferson	0.92
Orange	0.26
BPA SUBTOTAL:	1.69
MAP TOTAL:	110.25

Legend (Tons/Day)

< 0.00	0.00 – 0.01	0.01 – 0.02	0.02 – 0.05
0.05 – 0.10	0.10 – 0.15	0.15 – 0.20	>= 0.20

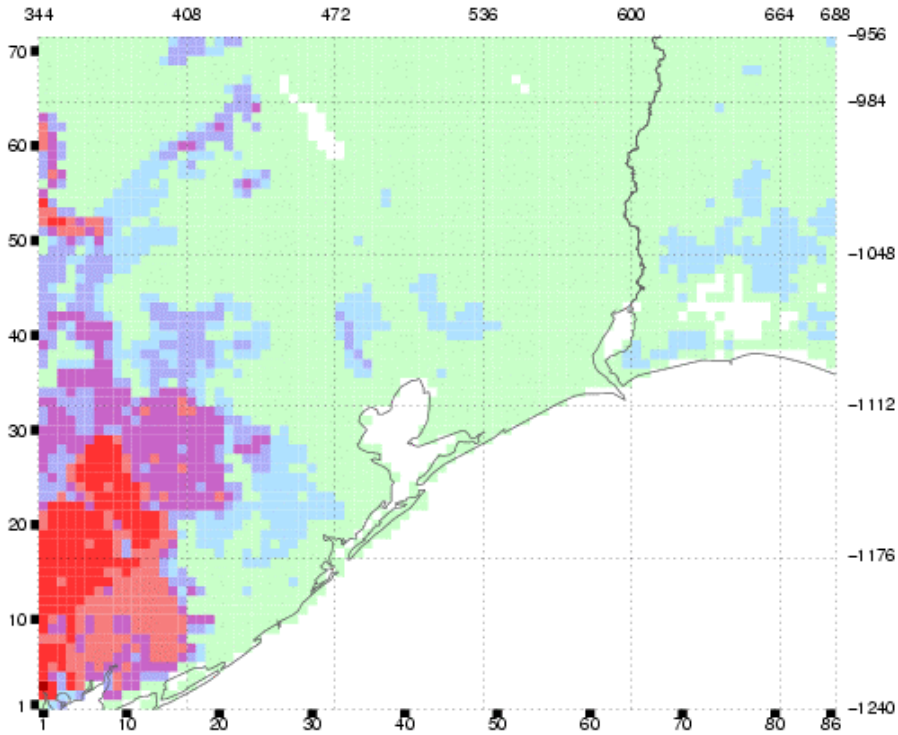
Max: 0.256 t/d (346, −1230); Min: 0.000 t/d (358, −1238)

Diurnal Profile



hgbpa_04km Biogenic NO_x Emissions, 09/06/2000

(4x4 Km Grid Cells)

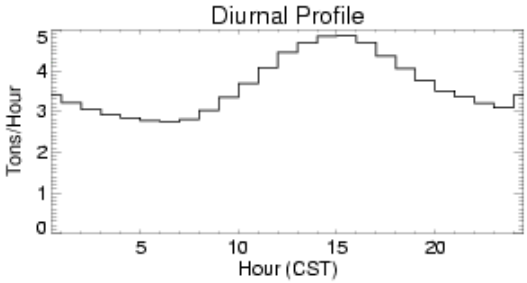


Emissions Plotted

County	Tons/Day
Brazoria	2.12
Chambers	0.35
Fort Bend	9.71
Galveston	0.22
Harris	2.80
Liberty	1.17
Montgomery	0.58
Waller	1.07
HG SUBTOTAL:	18.02
Hardin	0.39
Jefferson	0.73
Orange	0.21
BPA SUBTOTAL:	1.33
MAP TOTAL:	86.76

Legend (Tons/Day)

< 0.00	0.00 – 0.01	0.01 – 0.02	0.02 – 0.05
0.05 – 0.10	0.10 – 0.15	0.15 – 0.20	>= 0.20

Max: 0.208 t/d (346, −1230); Min: 0.000 t/d (358, −1238)

Diurnal Profile