

*BAAQMD 2004 SIP:
Status Of Emissions Modeling*

James G. Wilkinson

Cynthia F. Loomis

Alpine Geophysics



Overview

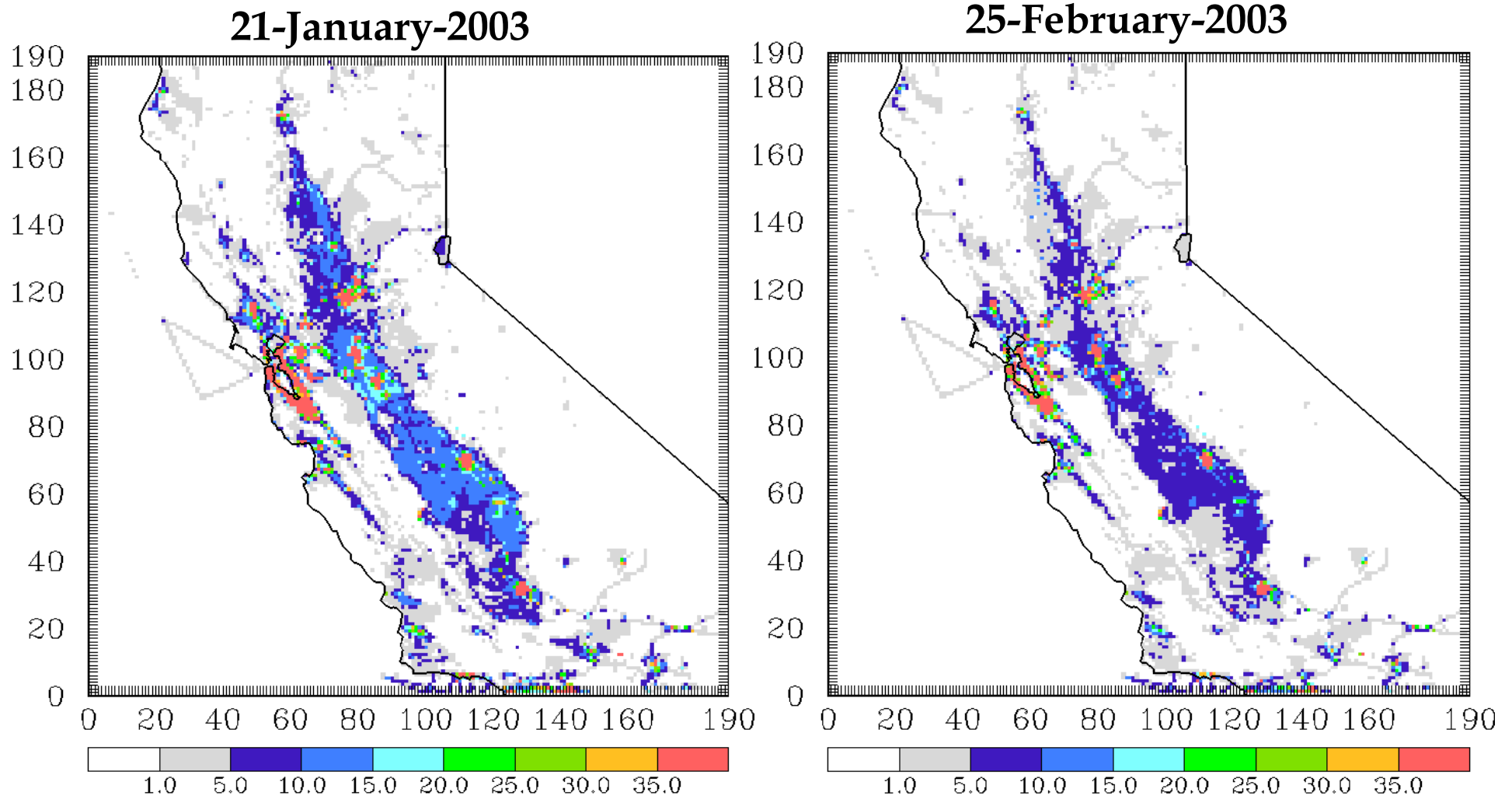
- ❖ Data that have been delivered
- ❖ Graphical summary of emissions
- ❖ Tabular summary of emissions
- ❖ Problems
- ❖ Current standing of overall emissions modeling effort



*Emissions Data From ARB &
BAAQMD*

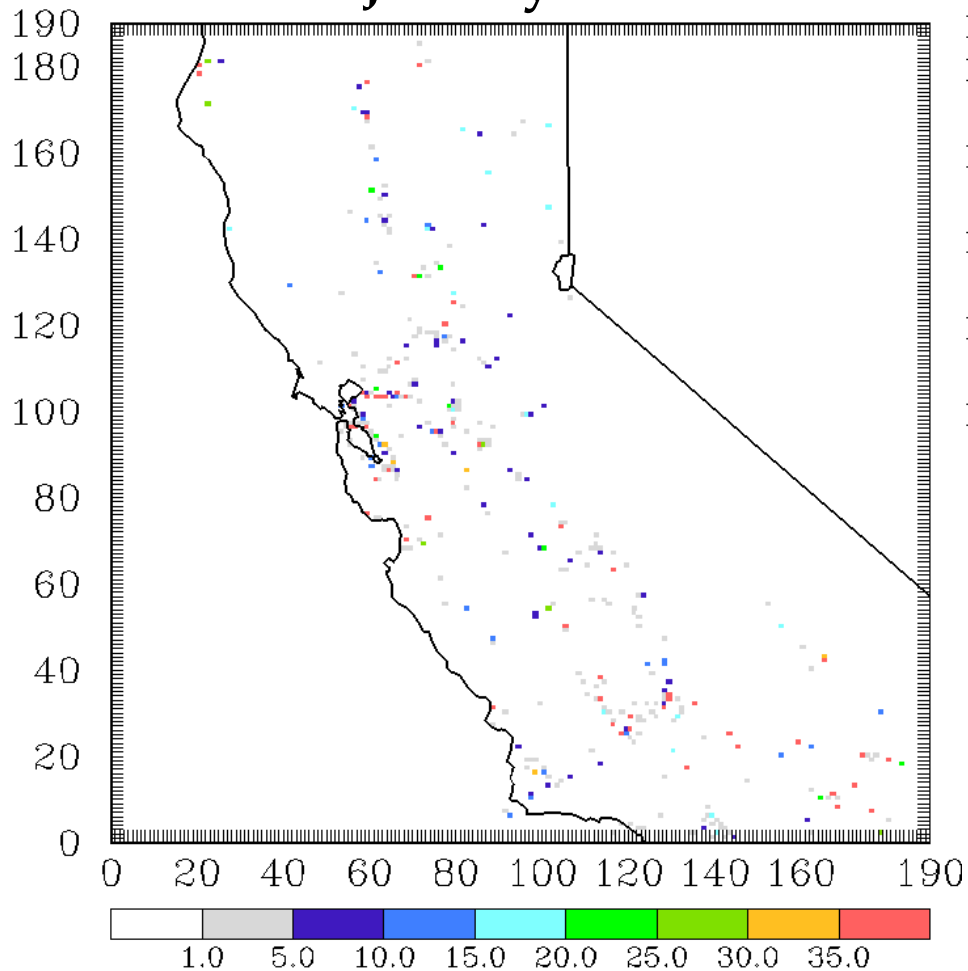
- ❖ Revised Day-Specific Flare Emissions Estimates for Phillips/Conoco for June 2000

Area Source NO_x (1600 01-Aug-2000) kg/hr

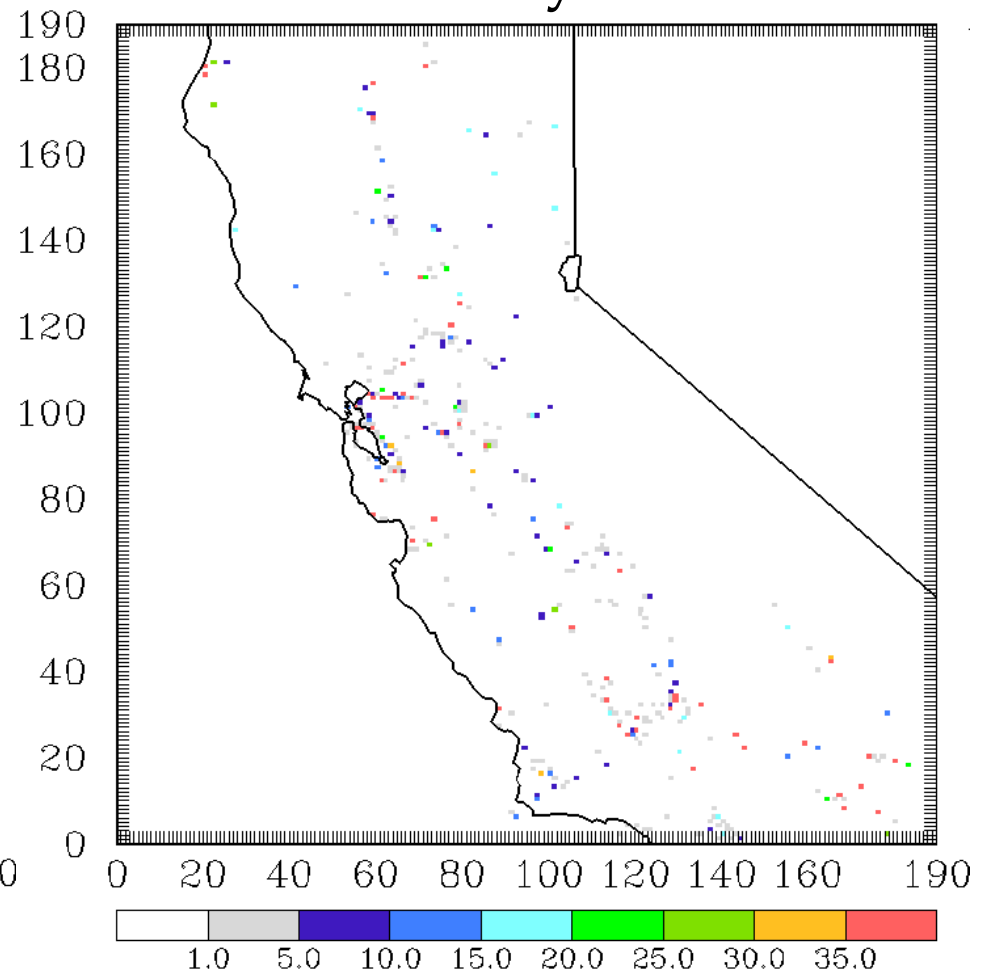


Point Source NO_x (1600 01-Aug-2000) kg/hr

21-January-2003



25-February-2003





Comparison Of Domain Emissions Totals (tons/day)

Source	CO		NOX		PM		SOX		TOG	
	Dec-2002	Feb-2003	Dec-2002	Feb-2003	Dec-2002	Feb-2003	Dec-2002	Feb-2003	Dec-2002	Feb-2003
EGU	17	96	16	57	3	8	3	4	26	37
Other Point	129	147	161	194	48	51	75	96	431	491
Area	633	491	267	195	2,527	2,291	26	13	2,352	2,372
Off-road	3,981	3,018	551	487	48	50	161	25	665	561
On-road	8,832	8,832	1,413	1,413			10	10	764	764
Total	13,592	12,584	2,408	2,346	2,626	2,400	275	148	4,238	4,225

EMS-95 vs. CEFS Emissions Comparison For BAAQMD (tons/day)

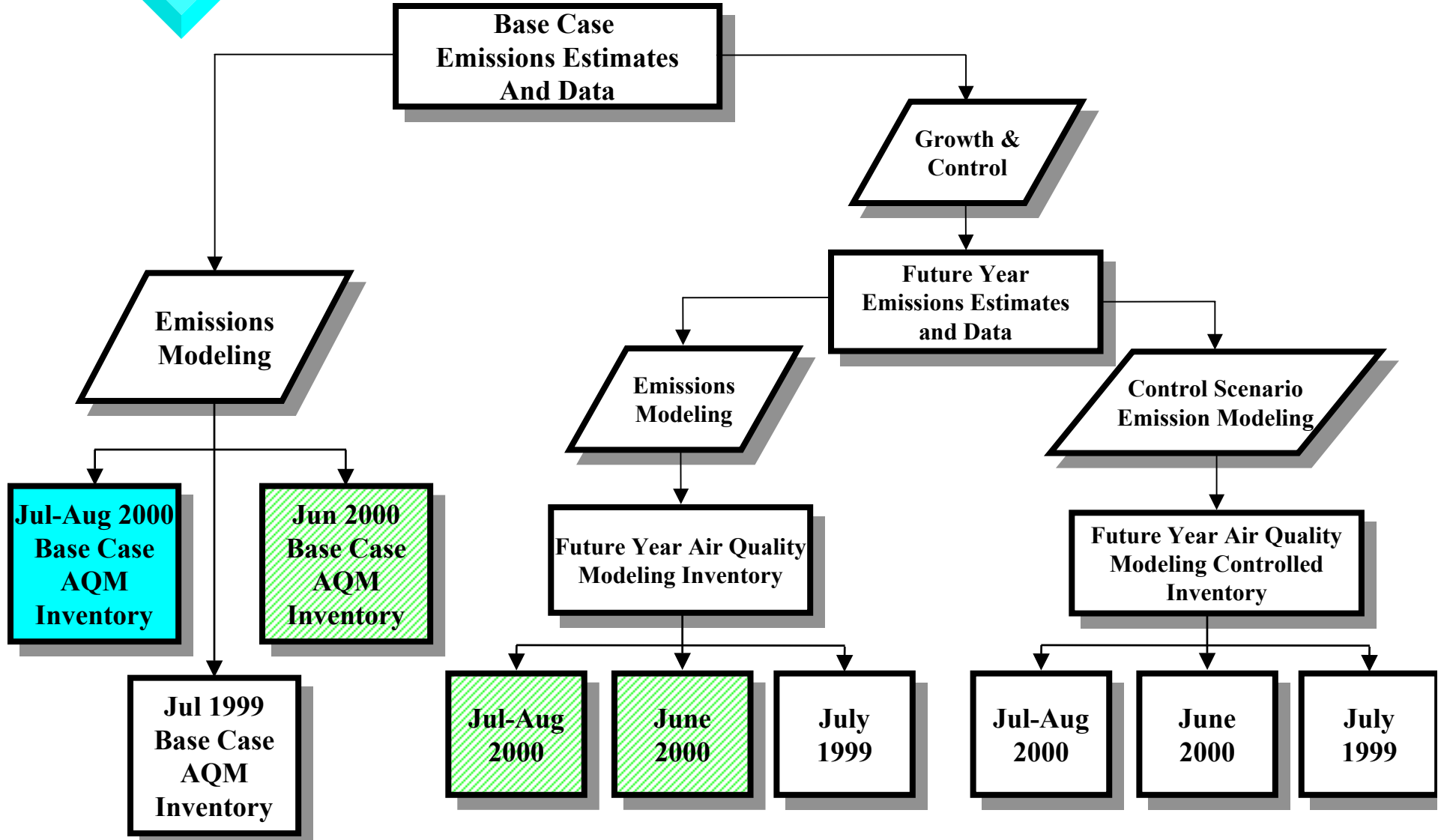
Source	CO			NOX			PM			SOX			TOG		
	CEFS	EMS Dec-02	EMS Feb-03	CEFS	EMS Dec-02	EMS Feb-03	CEFS	EMS Dec-02	EMS Feb-03	CEFS	EMS Dec-02	EMS Feb-03	CEFS	EMS Dec-02	EMS Feb-03
EGU	7	3	17	14	2	23	1	2	3	1	0	1	0	15	17
Other	130	15	26	79	38	60	27	9	11	54	43	63	615	331	361
Area	168	175	20	23	41	19	272	265	303	1	3	0	162	448	394
Off-road		1,071	864		162	156		15	15		23	9		179	156
On-road	2,669	2,059	2,059	512	338	338	24			29	3	3	340	228	228
Total	2,874	3,323	2,986	628	581	596	324	291	332	85	72	76	1,117	1,201	1,156



Problems Fixed & New Problems

- ❖ Fixed: comparison of CEFS/EMS-95 emissions estimates (combination of problems associated with day-specific emissions and category assignment)
- ❖ Fixed: area source temporal issue associated with weekend-to-weekday emissions variation
- ❖ On-Going: biogenic NO and commercial marine emissions
- ❖ On-Going: on-road mobile sources (ARB/AG are checking recent emissions estimates)
- ❖ No new problems

Current Standing





Next Updates

- ❖ New on-road mobile source emissions estimates from ARB possibly by end of February (realistically, I think it will be no sooner than 8-Mar)
- ❖ Incorporate shipping emissions estimates into July-August 2000
- ❖ Incorporate biogenic NO into July-August 2000 and June 2000 episodes