

Appendix E1

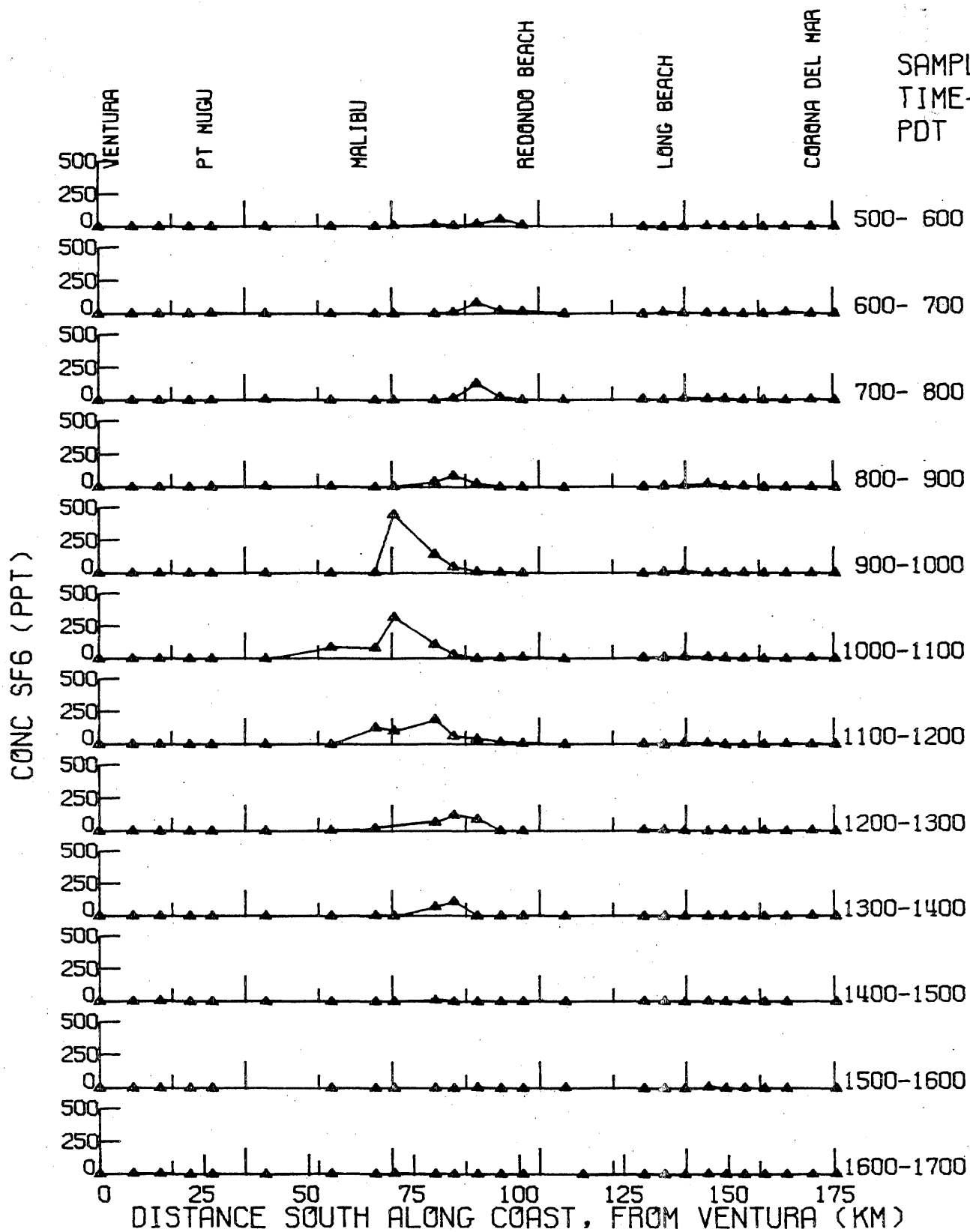
Hourly Averaged Tracer Data for Fixed Sites

for

Test No. 5

Conducted Starting September 8, 1977

SAMPLING
TIME-
PDT

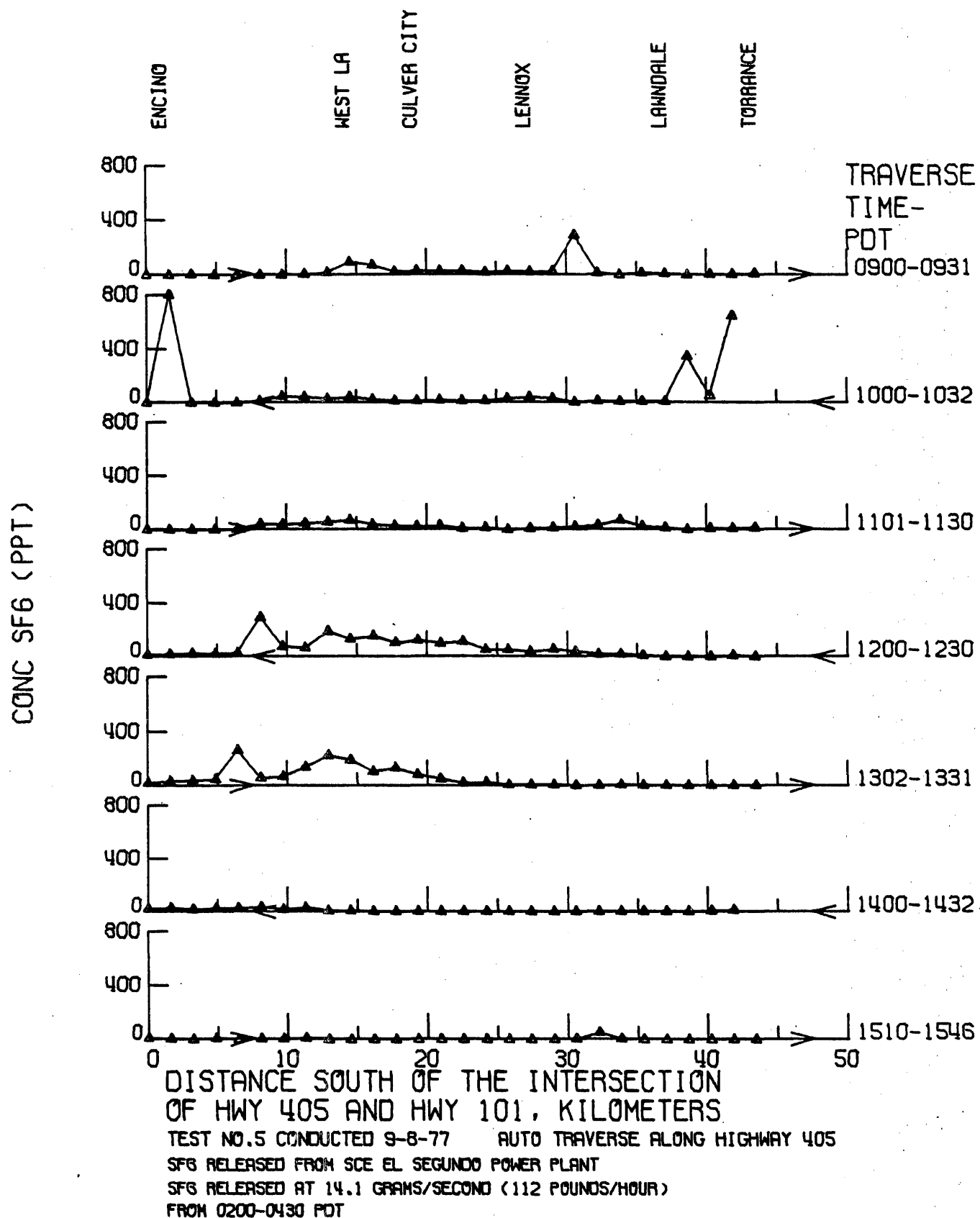


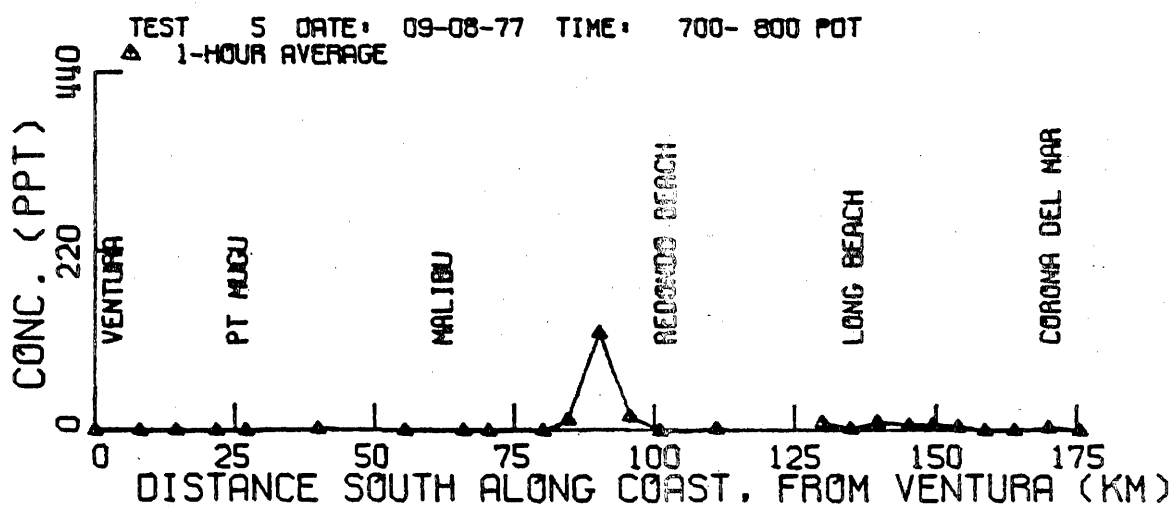
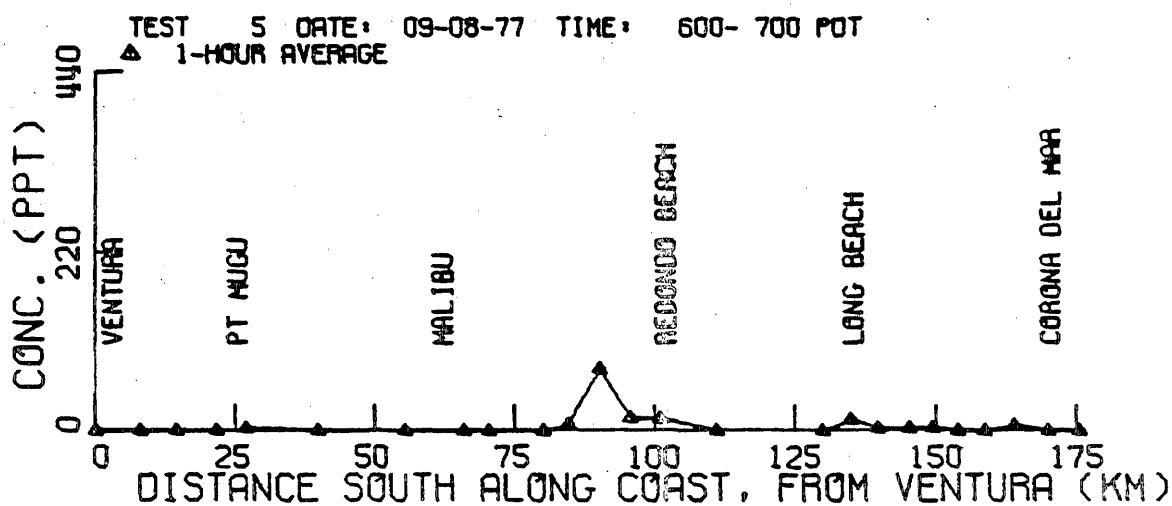
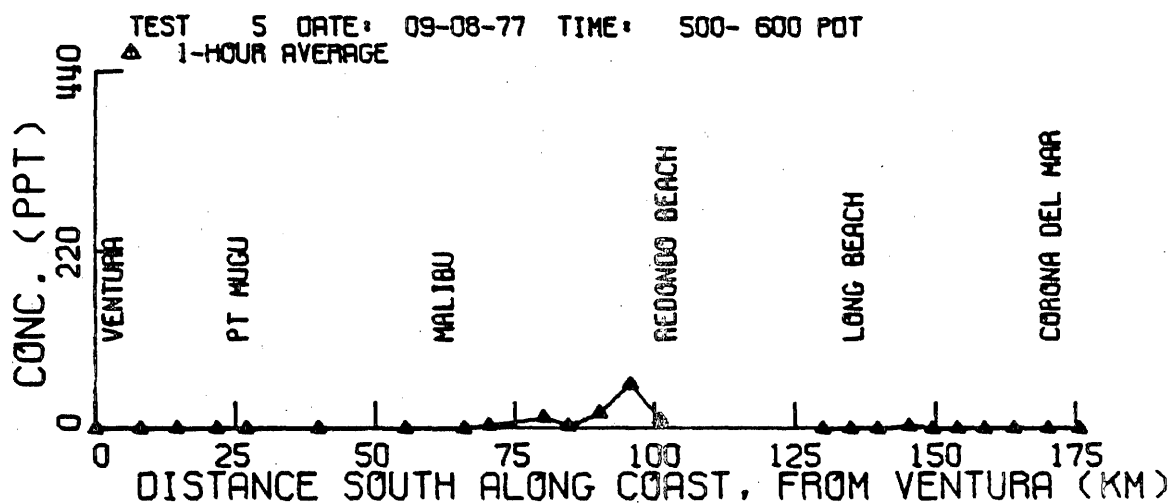
TEST NO. 5 CONDUCTED ON 9-08-77

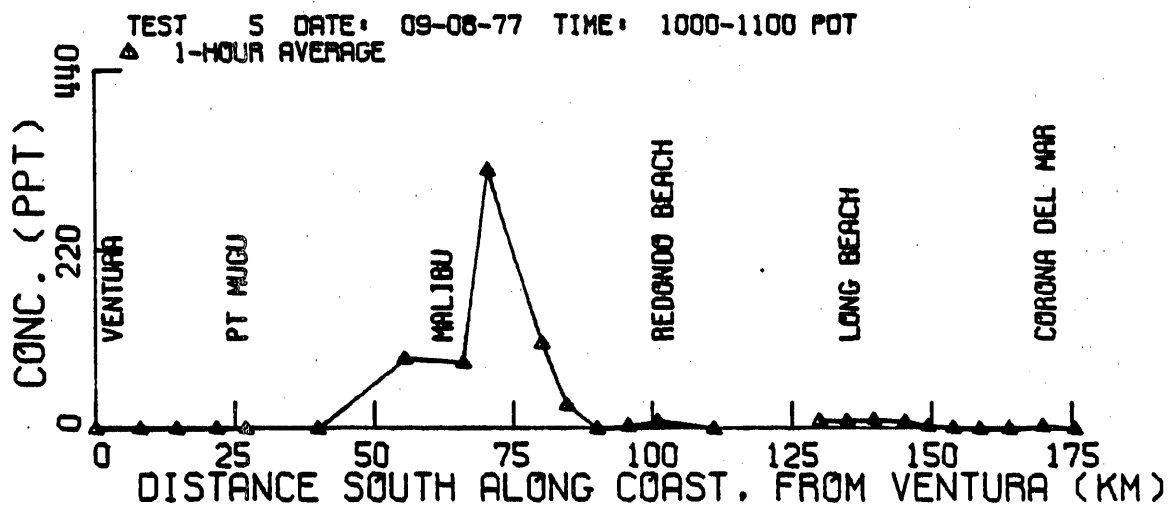
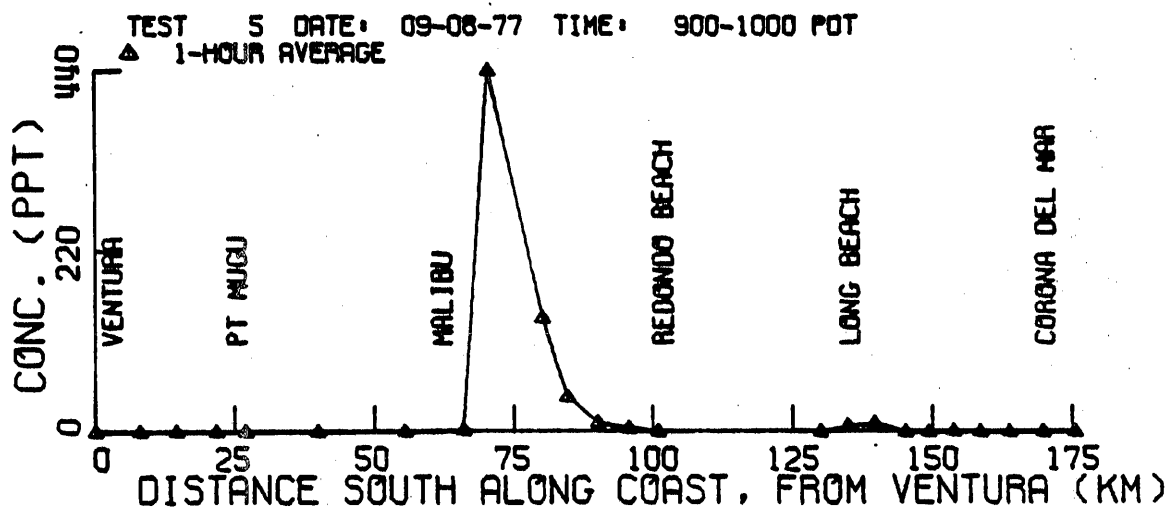
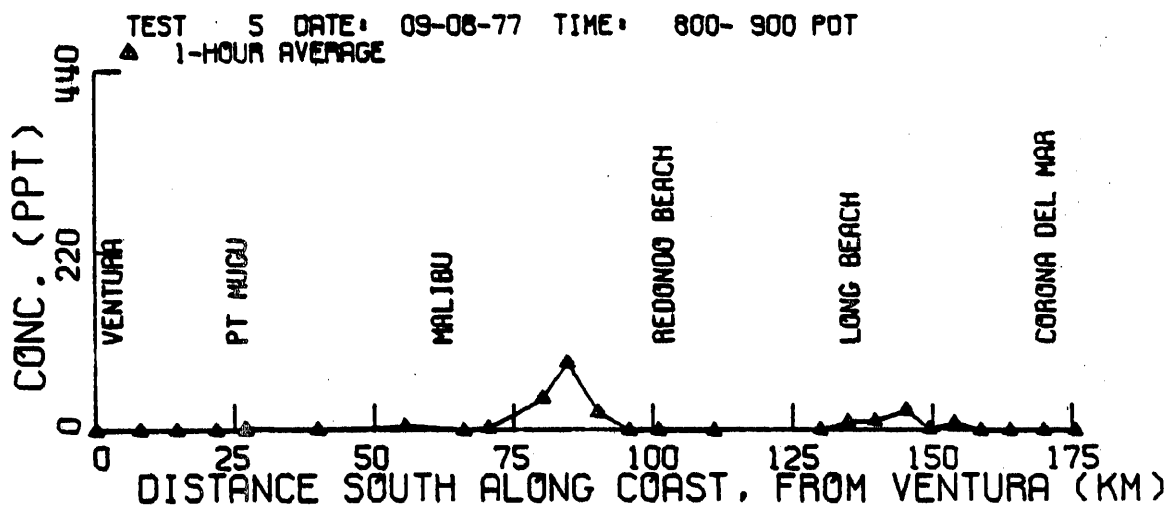
HOURLY AVERAGED SAMPLES

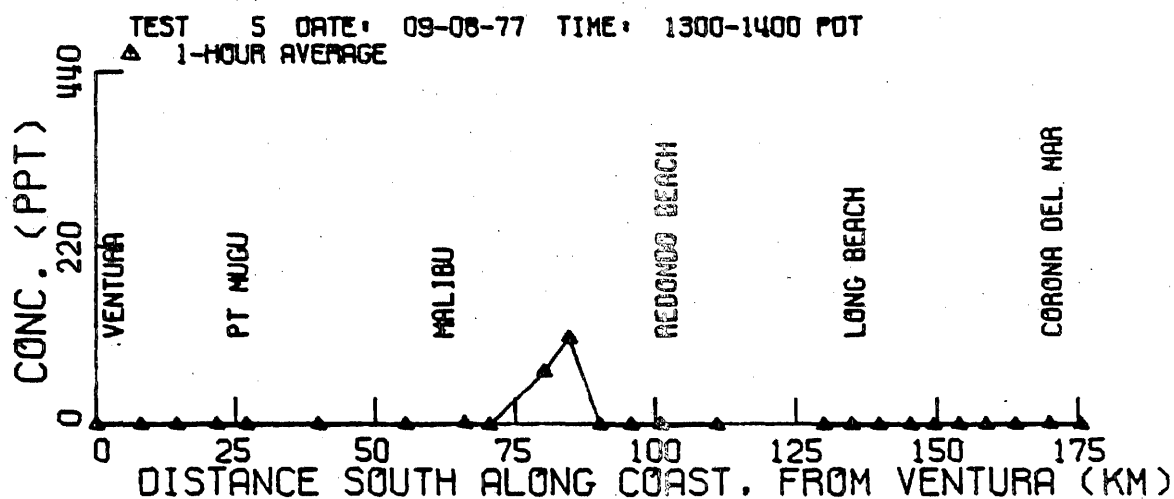
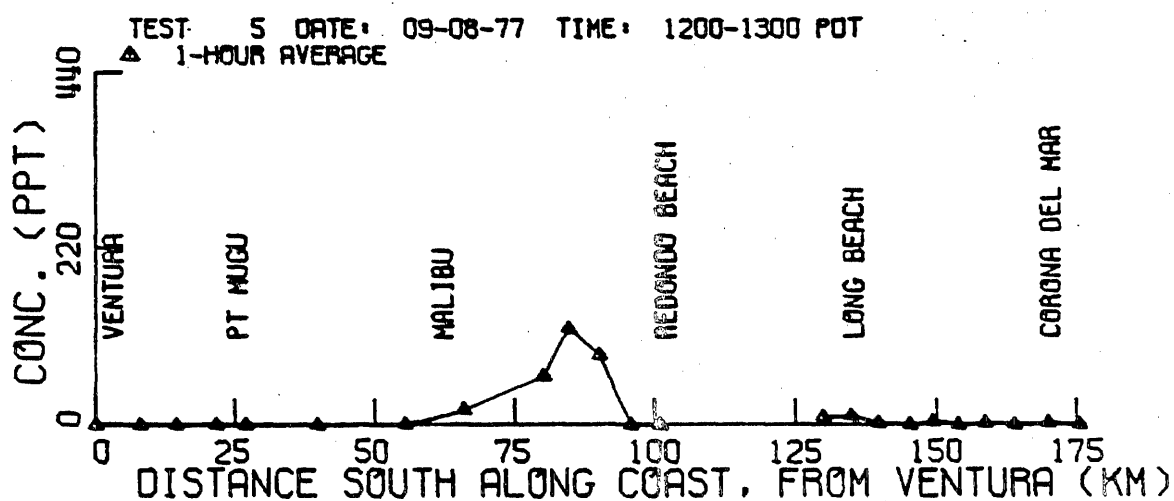
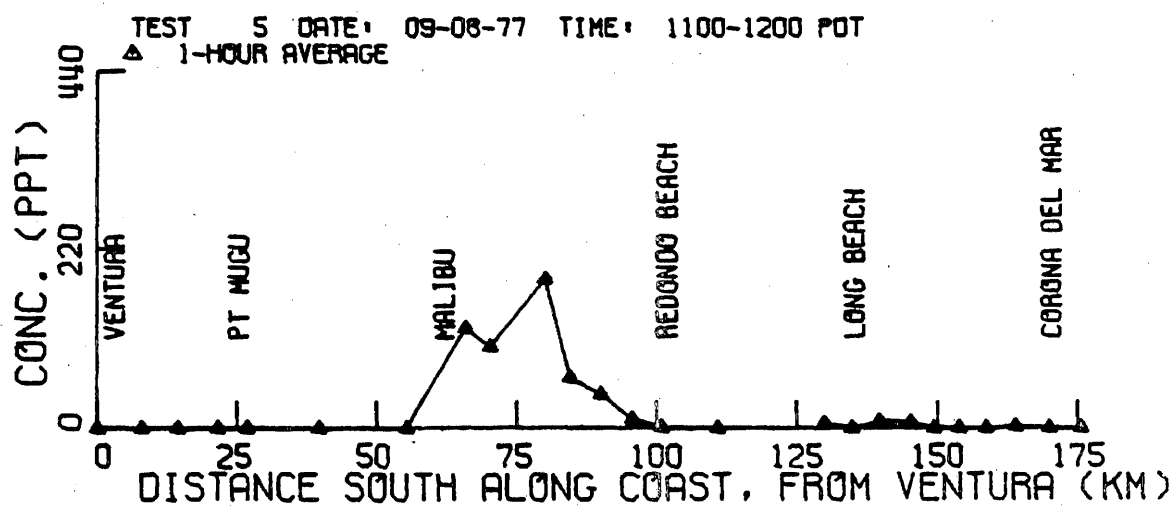
SF6 RELEASED FROM SCE EL SEGUNDO POWER PLANT

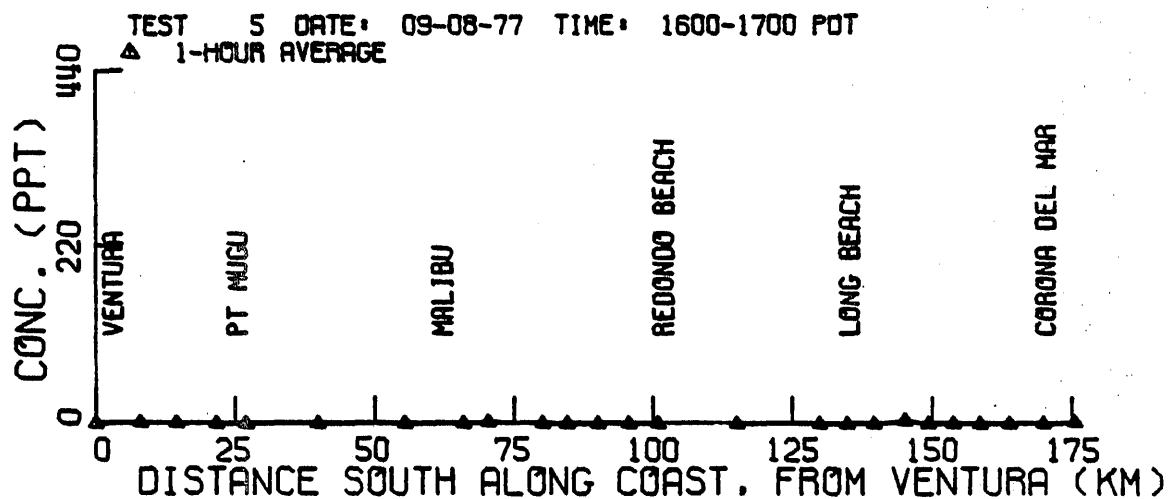
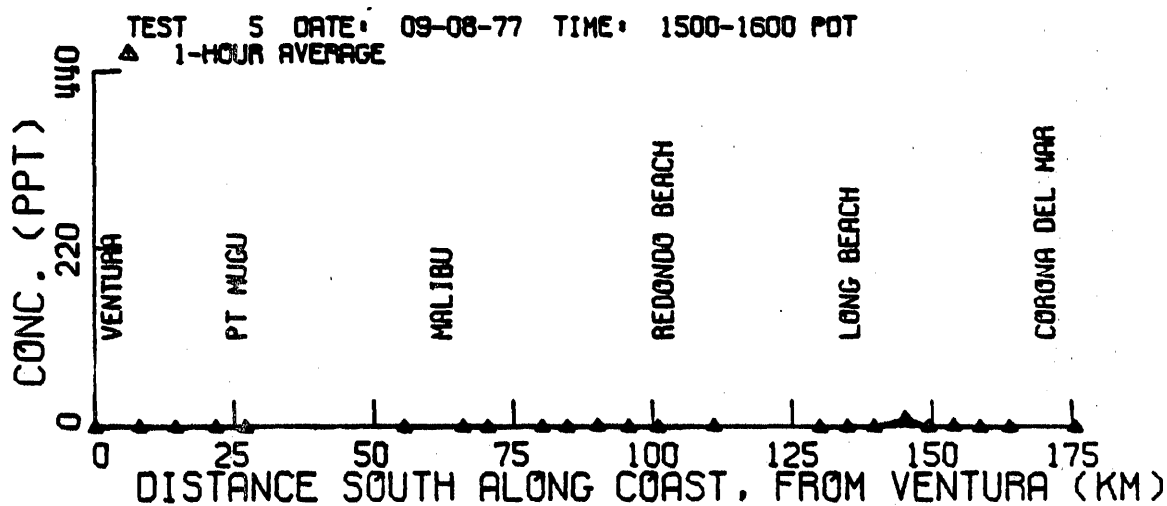
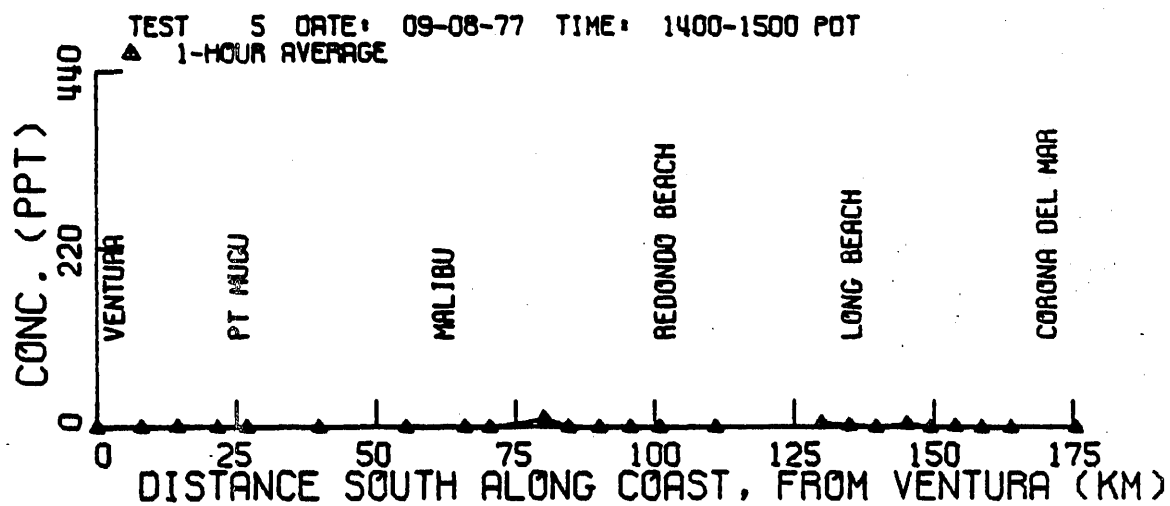
AT GROUND LEVEL NEAR STACK # 3

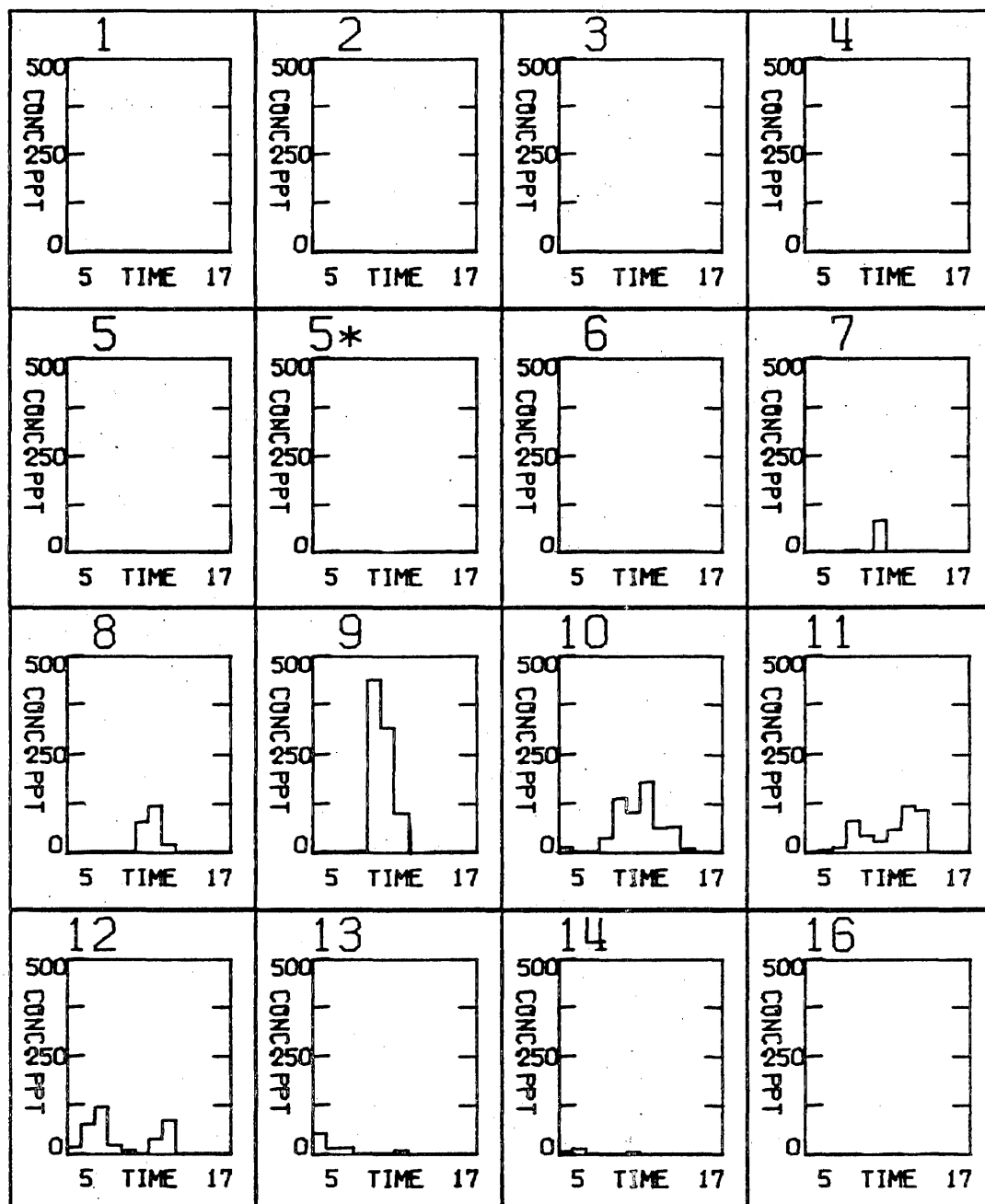






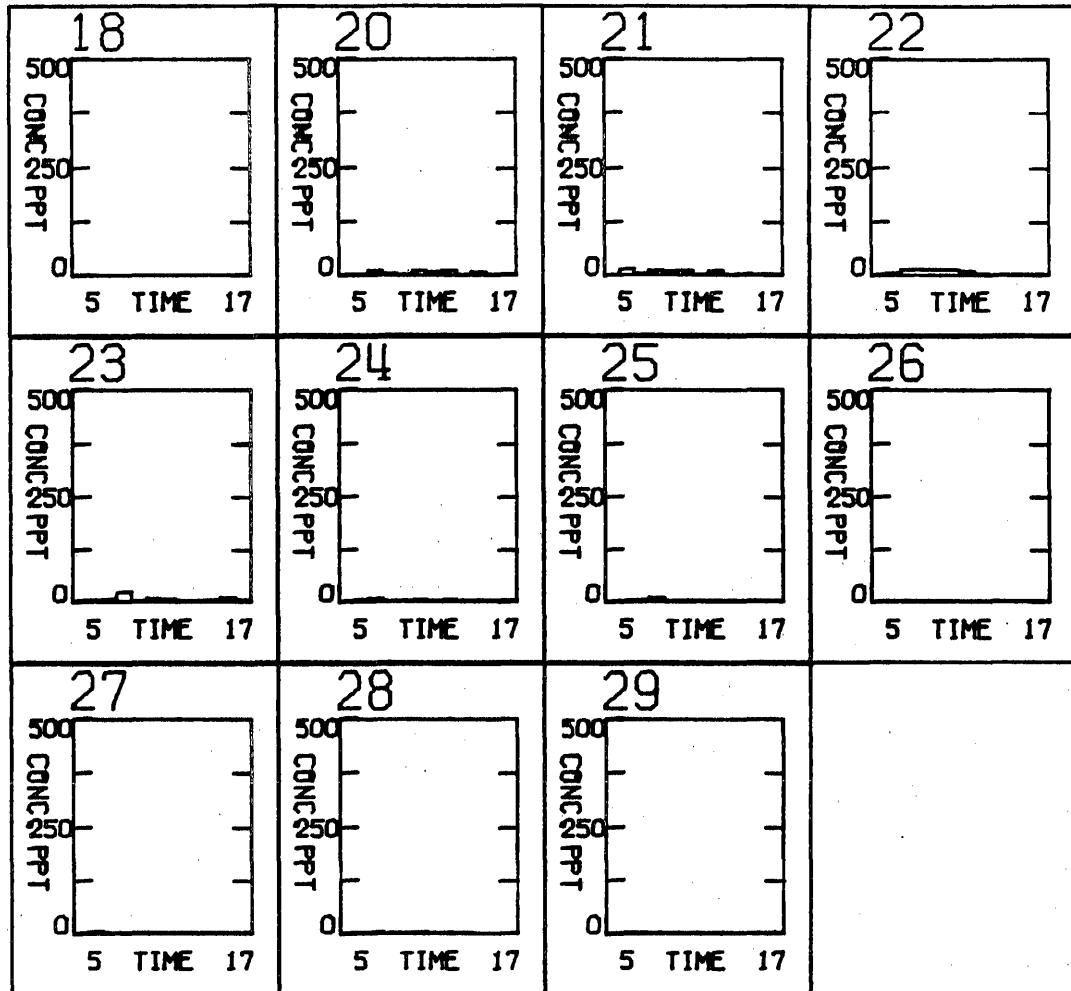






* INDICATES ELEVATED SITE, LAGUNA PEAK

TEST 5



TEST 5

TABLE 1
ONE-HOUR AVERAGED TRACER CONCENTRATION (PPT)
LCS ANGELES TEST NO. 5 SF6 TRACER

	HOUR OF DAY-PACIFIC DAYLIGHT TIME								9-08-77			
STATION NUMBER	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	1	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	****	0	0	0	0	0	0	0	0	0	0
5*	0	3	0	2	0	****	0	0	0	0	0	0
6	0	0	2	1	0	0	0	0	0	0	****	0
7	0	0	0	5	0	85	0	1	0	0	0	0
8	0	0	0	0	2	80	121	19	2	0	0	0
9	4	0	0	3	438	315	99	****	0	0	0	2
10	14	0	0	39	140	104	182	61	66	10	0	0
11	3	7	13	83	43	28	60	120	107	0	0	0
12	19	78	122	22	10	0	40	88	0	0	1	0
13	55	16	17	0	4	3	11	0	0	0	0	0

**** INDICATES UNAVAILABLE OR FAULTY DATA.

* INDICATES ELEVATED SITE, LAGUNA PEAK

TABLE 1 (CONT.)

CNE-HOUR AVERAGED TRACER CONCENTRATION (PPT)

LOS ANGELES TEST NO. 5

SF6 TRACER

	HOUR OF DAY-PACIFIC DAYLIGHT TIME									9-08-77		
STATION NUMBER	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
14	10	15	0	0	0	8	1	0	0	0	0	0
16	****	0	2	0	****	0	0	****	0	0	1	****
18	****	****	****	****	****	****	****	****	****	****	****	0
20	0	0	9	1	0	9	5	9	0	5	0	0
21	0	14	2	10	7	9	0	10	0	2	0	0
22	0	3	11	12	11	11	8	2	0	0	0	0
23	3	3	6	25	0	8	6	0	0	4	10	4
24	0	4	7	2	0	3	0	4	0	0	0	0
25	0	0	4	9	1	1	0	0	0	1	1	0
26	0	0	0	0	0	0	0	2	0	0	0	0
27	0	6	0	0	0	0	2	0	0	0	0	0
28	0	0	3	0	0	3	0	2	1	****	****	0
29	0	0	0	0	0	0	0	0	0	0	0	2

**** INDICATES UNAVAILABLE OR FAULTY DATA

* INDICATES ELEVATED SITE, LAGUNA PEAK

Appendix E2

Auto Traverse Tracer Data

for

Test No. 5

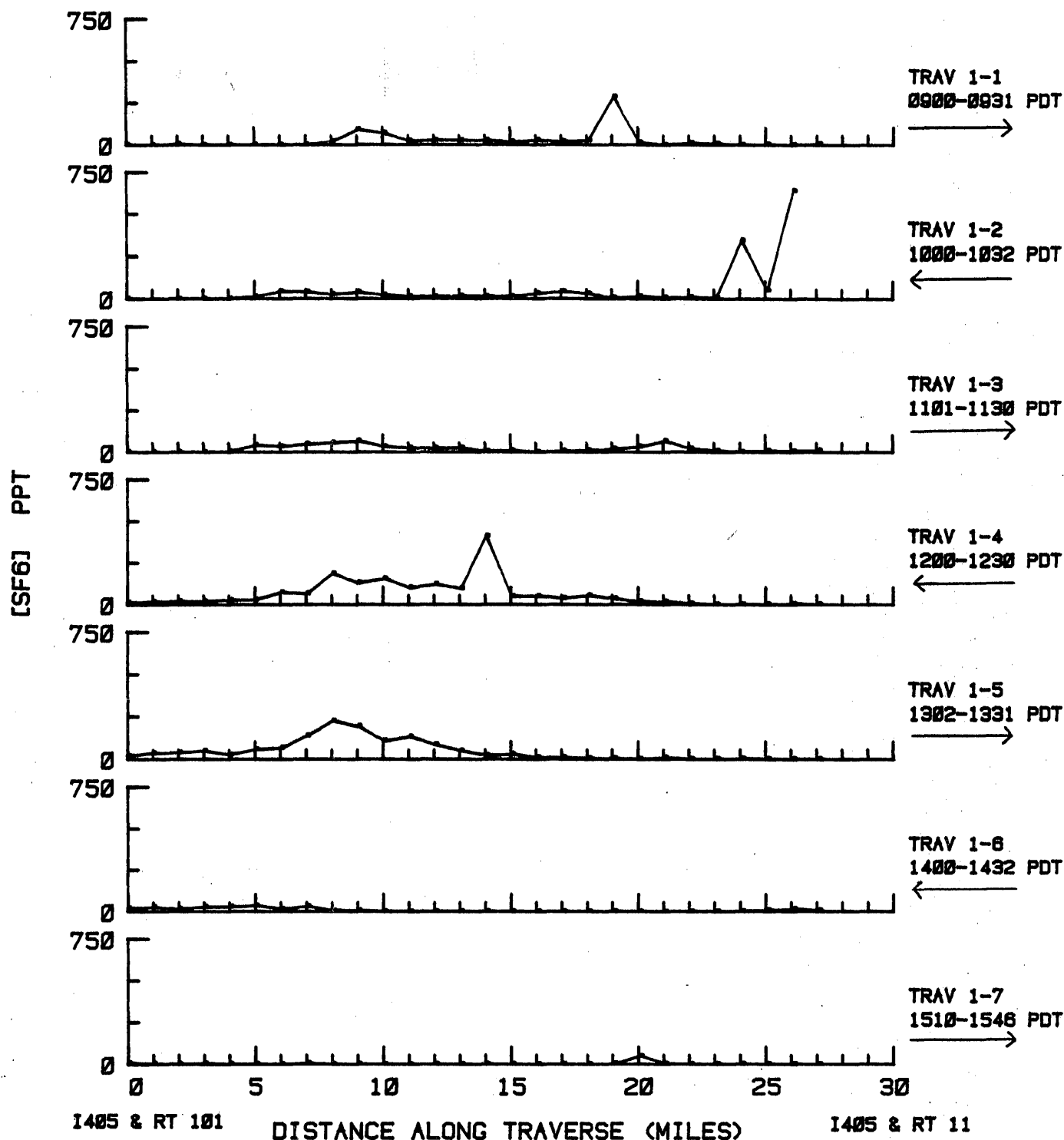
Conducted Starting September 8, 1977

Test: Land Breeze - Sea Breeze, Test 5
 Conducted: September 8-9, 1977
 Release Location: E1 Segundo Power Plant at ground level near Stack #3
 Release Rate: 113 pounds SF₆ per hour (14.2 grams per second)
 Release Time: 0200-0430 PDT - September 8, 1977

February 3, 1982

Traverse Number	Day	Start Time	End Time	Start Location	End Location	Number of Samples	Route
1	1	0900	0931	405 & 101	405 & 11	28	S on 405
2	1	1000	1032	405 & 11	405 & 101	27	N on 405
3	1	1101	1130	405 & 101	405 & 11	28	S on 405
4	1	1200	1230	405 & 11	405 & 101	28	N on 405
5	1	1302	1331	405 & 101	405 & 11	28	S on 405
6	1	1400	1432	405 & 11	405 & 101	28	N on 405
7	1	1510	1546	405 & 101	405 & 11	28	S on 405
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

LSB-5 AUTO TRAVERSES ALONG I405, 9/8/77



RELEASE: 113 LBS SF6/HR (14.2 GR/SEC) FROM EL SEGUNDO
POWER PLANT AT GROUND LEVEL NEAR STACK # 3

RELEASE TIME: 0200-0430 PDT, 9/8/77

→ INDICATES DIRECTION OF TRAVERSE

LSB-5

1-1



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-1 TRAV LSB-5

RELEASE: 113 LBS SF6/HR (14.2 GR/SEC) AT EL SEGUNDO
RELEASE TIME: 0200-0430 PDT, 9/8/77

TRAVERSE START: 0900 PDT, 9/8/77 AT 405 & 101
TRAVERSE END: 0931 PDT AT 405 & 11
TRAVERSE ROUTE: S ON 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	2
1	0	26	1
2	5	27	7
3	0		
4	0		
5	0		
6	0		
7	1		
8	18		
9	90		
10	69		
11	21		
12	27		
13	25		
14	26		
15	17		
16	27		
17	19		
18	25		
19	285		
20	13		
21	0		
22	10		
23	8		
24	0		

LSB-5

1-2



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-2 TRAV LSB-5

RELEASE: 113 LBS SF6/HR (14.2 GR/SEC) AT EL SEGUNDO
RELEASE TIME: 0200-0430 PDT, 9/8/77

TRAVERSE START: 1000 PDT, 9/8/77 AT 405 & 11
TRAVERSE END: 1032 PDT AT 405 & 101
TRAVERSE ROUTE: N ON 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	638	25	*
1	49	26	0
2	342		
3	5		
4	9		
5	7		
6	14		
7	4		
8	30		
9	42		
10	31		
11	13		
12	12		
13	17		
14	11		
15	14		
16	22		
17	38		
18	26		
19	41		
20	43		
21	12		
22	0		
23	0		
24	0		

LSB-5

1-3



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-3 TRAV LSB-5

RELEASE: 113 LBS SF6/HR (14.2 GR/SEC) AT EL SEGUNDO
RELEASE TIME: 0200-0430 PDT, 9/8/77

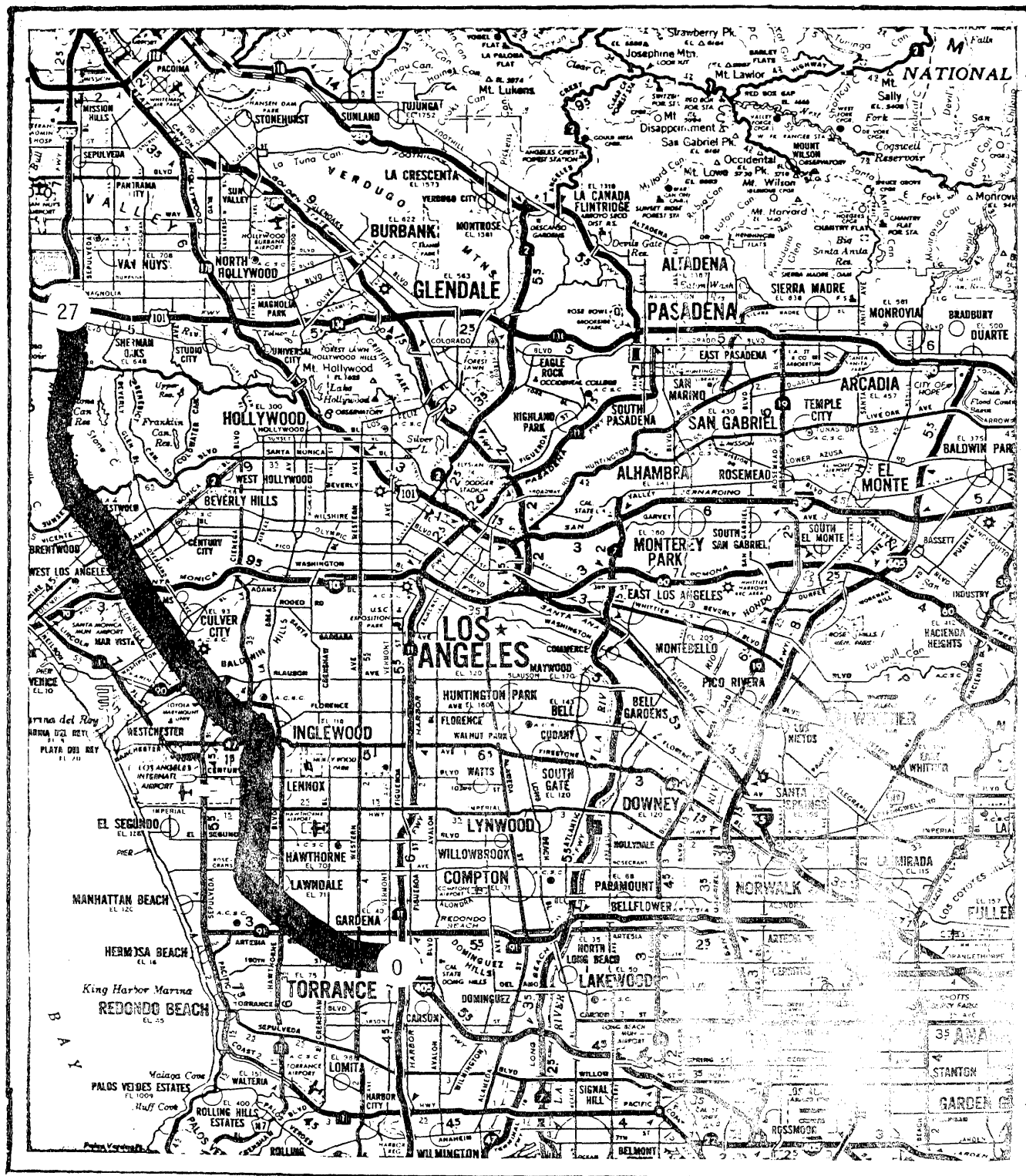
TRAVERSE START: 1101 PDT, 9/8/77 AT 405 & 101
TRAVERSE END: 1130 PDT AT 405 & 11
TRAVERSE ROUTE: S ON 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	9
1	0	26	7
2	0	27	11
3	0		
4	4		
5	42		
6	35		
7	47		
8	56		
9	66		
10	33		
11	25		
12	23		
13	26		
14	5		
15	10		
16	0		
17	8		
18	10		
19	19		
20	32		
21	66		
22	20		
23	10		
24	0		

LSB-5

1-4



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-4 TRAV LSB-5

RELEASE: 113 LBS SF6/HR (14.2 GR/SEC) AT EL SEGUNDO
RELEASE TIME: 0200-0430 PDT, 9/8/77

TRAVERSE START: 1200 PDT, 9/8/77 AT 405 & 11
TRAVERSE END: 1230 PDT AT 405 & 101
TRAVERSE ROUTE: N ON 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	19
1	5	26	18
2	0	27	11
3	0		
4	0		
5	5		
6	17		
7	18		
8	34		
9	54		
10	37		
11	50		
12	49		
13	409		
14	96		
15	121		
16	101		
17	155		
18	129		
19	185		
20	65		
21	73		
22	29		
23	27		
24	20		

LSB-5

1-5



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-5 TRAV LSB-5

RELEASE: 113 LBS SF6/HR (14.2 GR/SEC) AT EL SEGUNDO
RELEASE TIME: 0200-0430 PDT, 9/8/77

TRAVERSE START: 1302 PDT, 9/8/77 AT 405 & 101
TRAVERSE END: 1331 PDT AT 405 & 11
TRAVERSE ROUTE: S ON 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	19	25	0
1	34	26	0
2	39	27	0
3	48		
4	25		
5	57		
6	66		
7	137		
8	224		
9	192		
10	106		
11	132		
12	84		
13	49		
14	21		
15	28		
16	9		
17	9		
18	5		
19	2		
20	0		
21	7		
22	0		
23	0		
24	2		

LSB-5

1-6



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-6 TRAV LSB-5

RELEASE: 113 LBS SF6/HR (14.2 GR/SEC) AT EL SEGUNDO
RELEASE TIME: 0200-0430 PDT, 9/8/77

TRAVERSE START: 1400 PDT, 9/8/77 AT 405 & 11
TRAVERSE END: 1432 PDT AT 405 & 101
TRAVERSE ROUTE: N ON 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	6	25	16
1	14	26	27
2	6	27	20
3	1		
4	0		
5	0		
6	0		
7	0		
8	0		
9	0		
10	0		
11	0		
12	0		
13	0		
14	0		
15	0		
16	0		
17	0		
18	5		
19	7		
20	30		
21	16		
22	36		
23	28		
24	28		



1-7 TRAV LSB-5

RELEASE: 113 LBS SF6/HR (14.2 GR/SEC) AT EL SEGUNDO
RELEASE TIME: 0200-0430 PDT, 9/8/77

TRAVERSE START: 1510 PDT, 9/8/77 AT 405 & 101
TRAVERSE END: 1546 PDT AT 405 & 11
TRAVERSE ROUTE: S ON 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	6	25	0
1	2	26	0
2	0	27	0
3	5		
4	0		
5	1		
6	1		
7	7		
8	0		
9	0		
10	0		
11	0		
12	0		
13	0		
14	0		
15	0		
16	0		
17	0		
18	0		
19	2		
20	50		
21	3		
22	0		
23	0		
24	0		

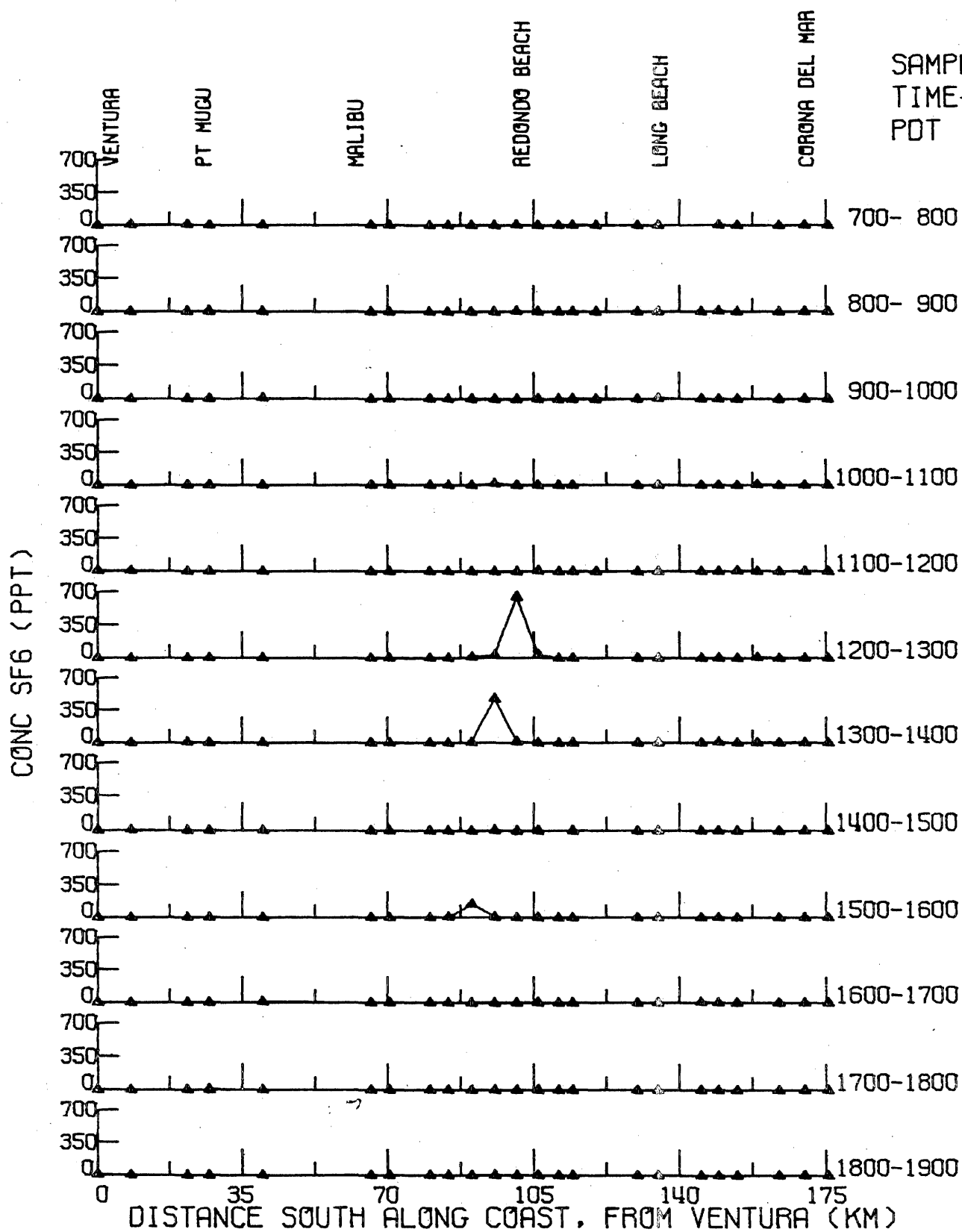
Appendix F1

Hourly Averaged Tracer Data for Fixed Sites

for

Test No. 6

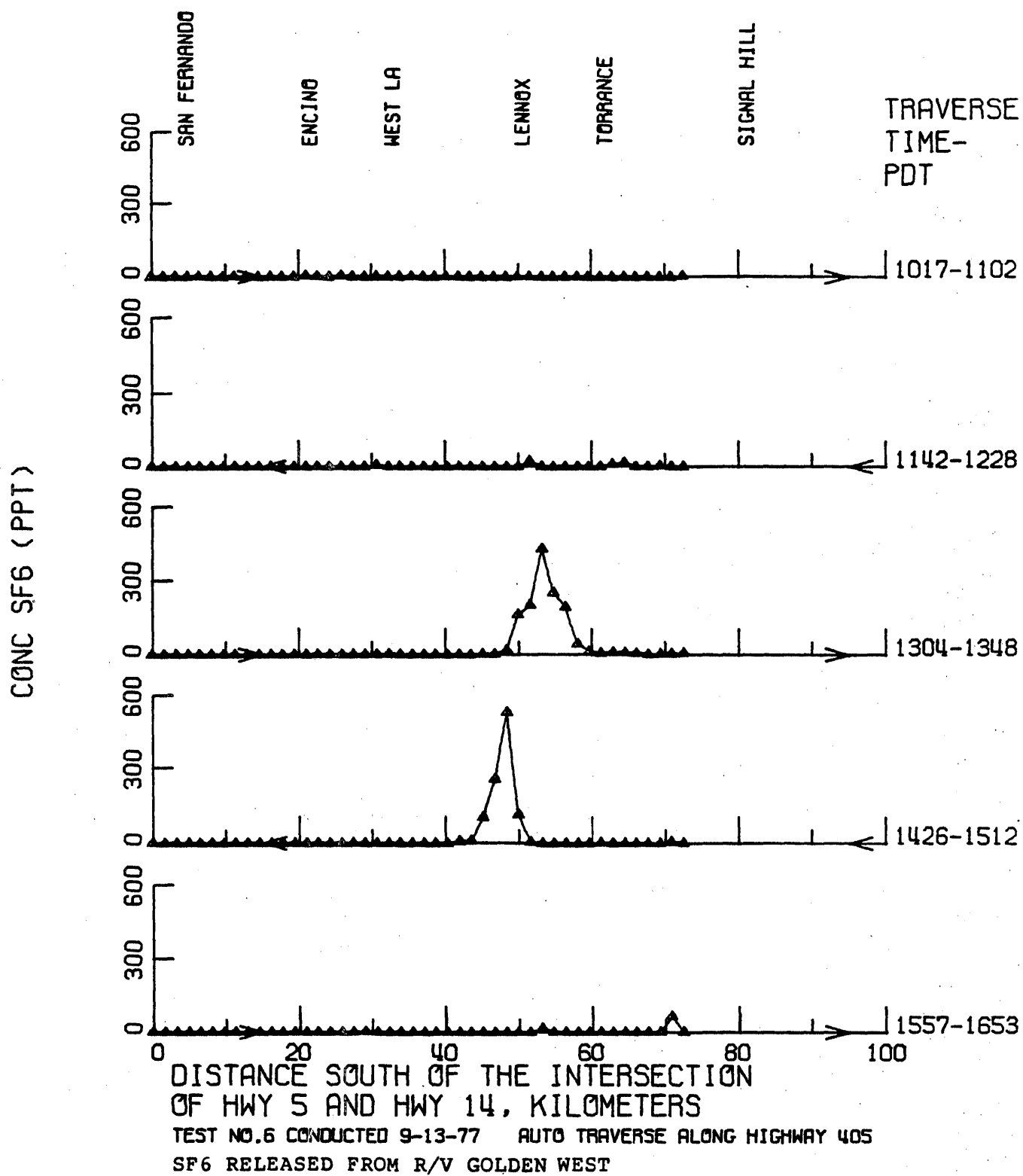
Conducted Starting September 13, 1977



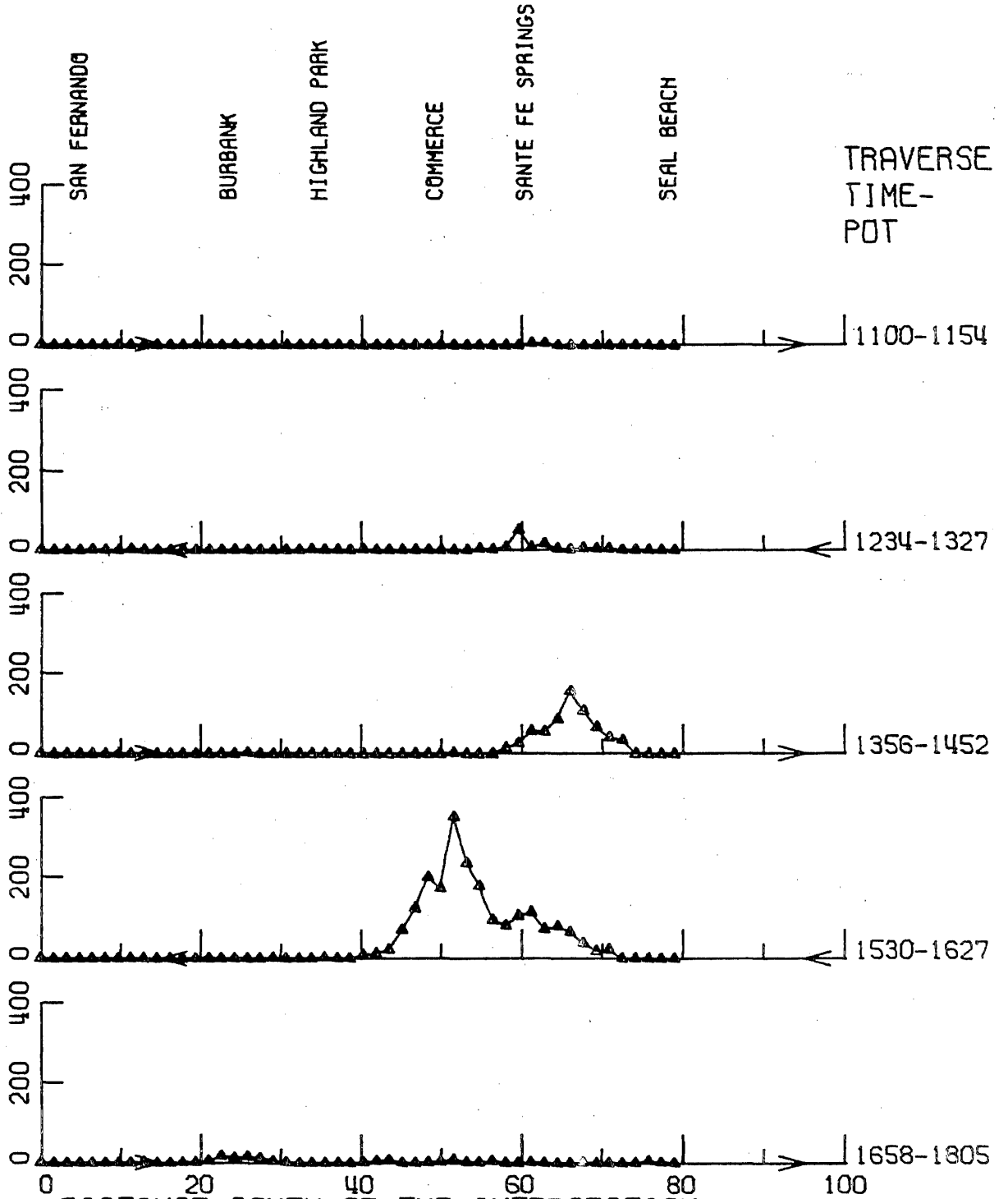
TEST NO. 6 CONDUCTED ON 9-13-77

HOURLY AVERAGED SAMPLES

SF6 RELEASED FROM R/V GOLDEN WEST

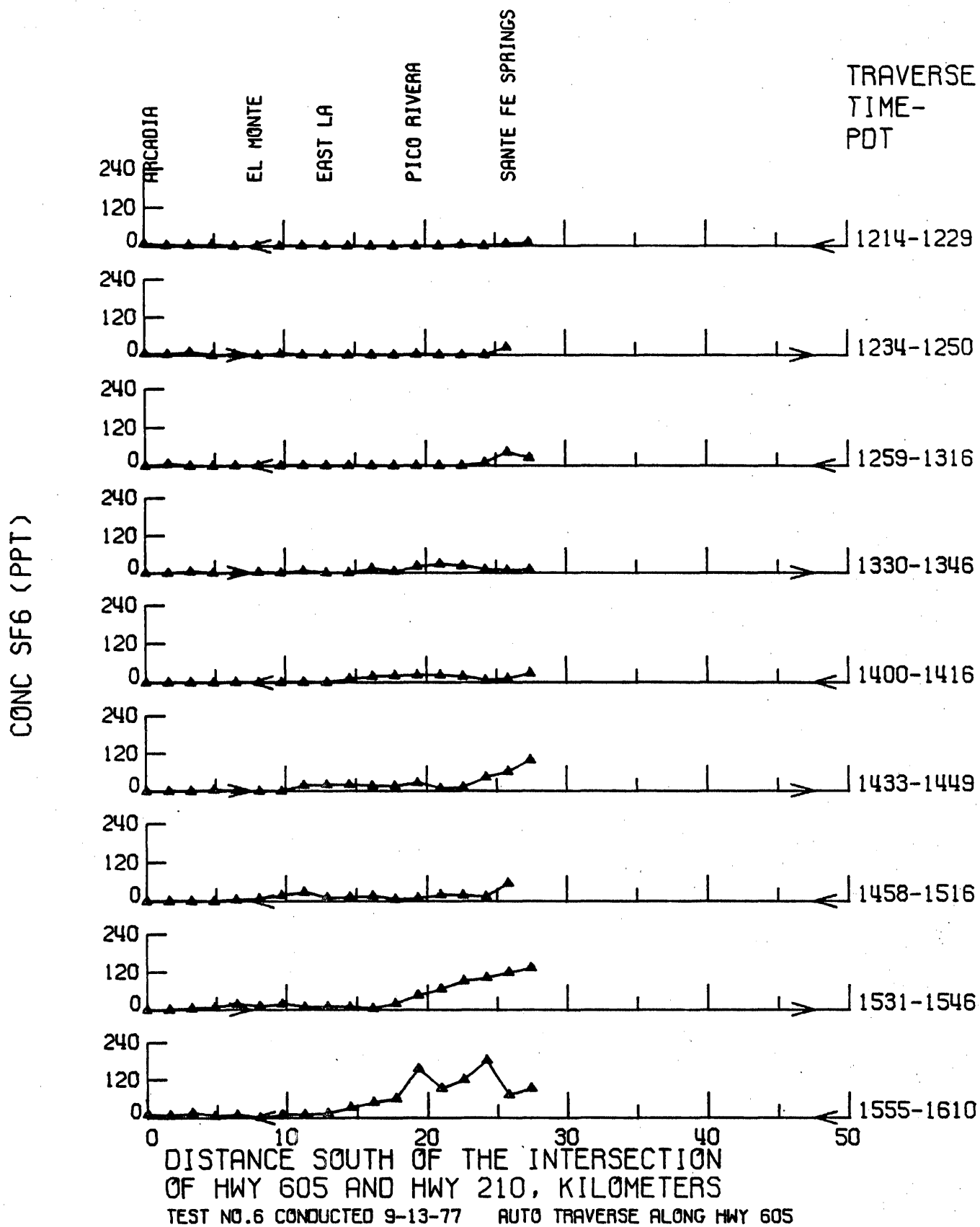


CONC SF6 (PPT)

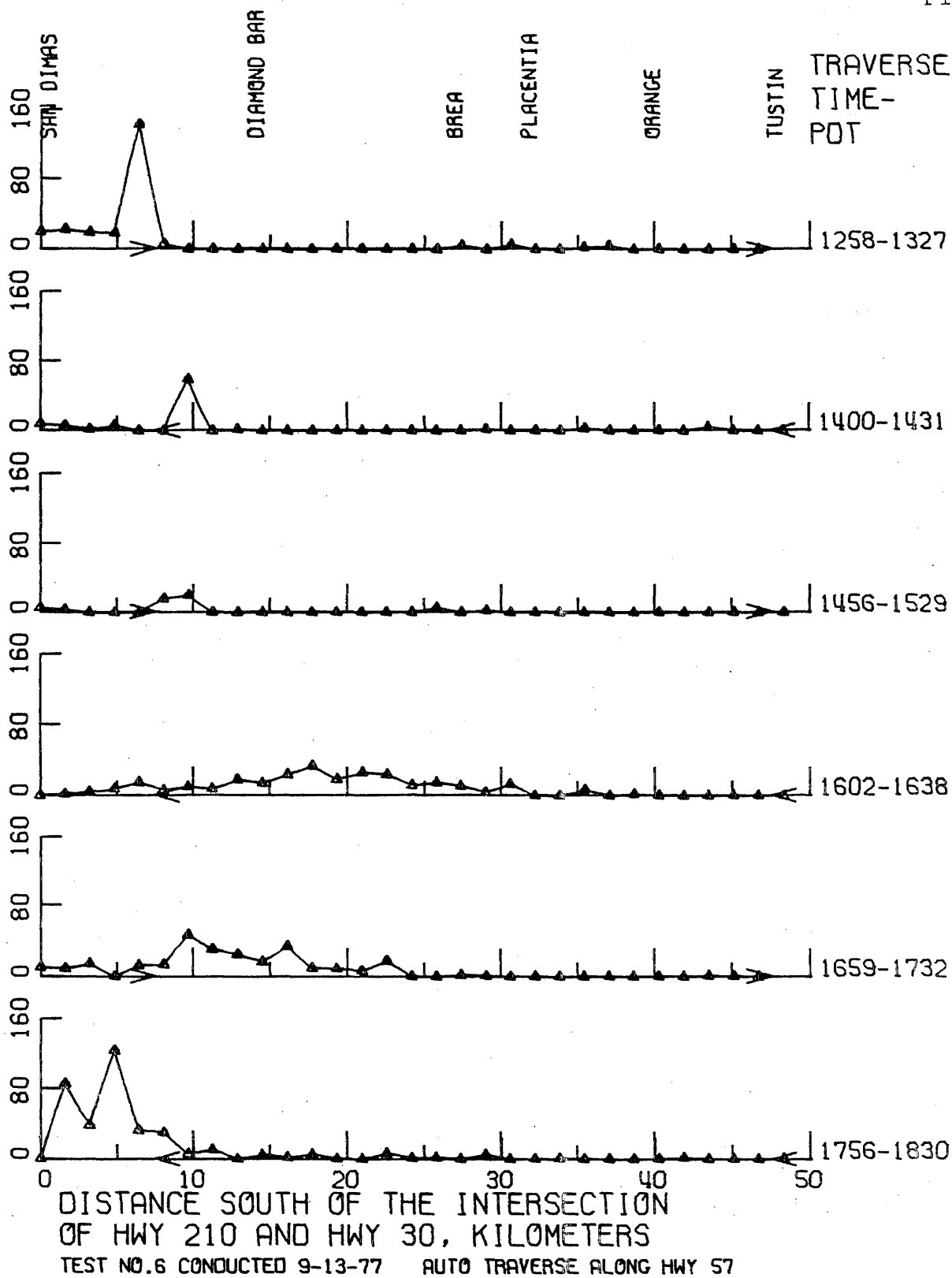


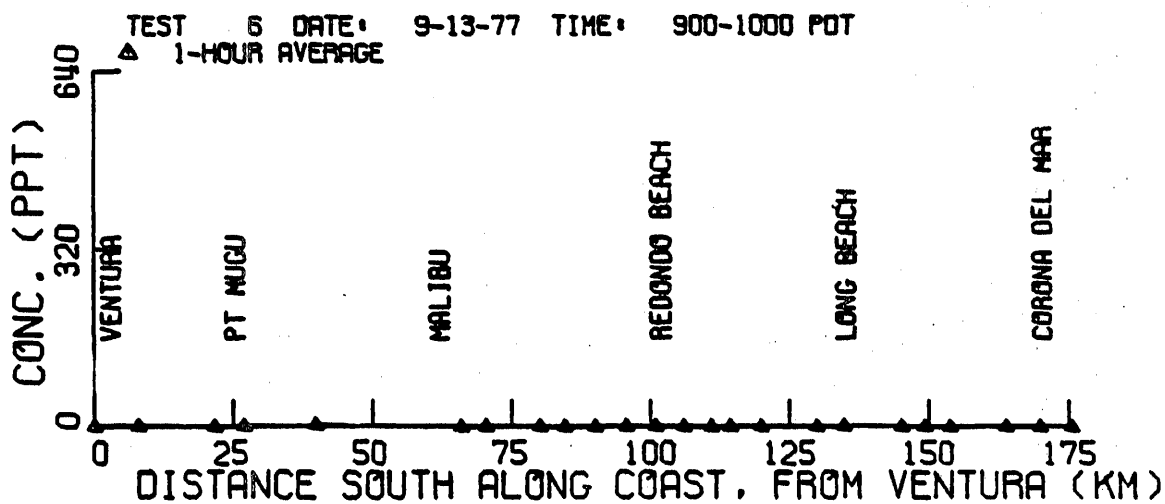
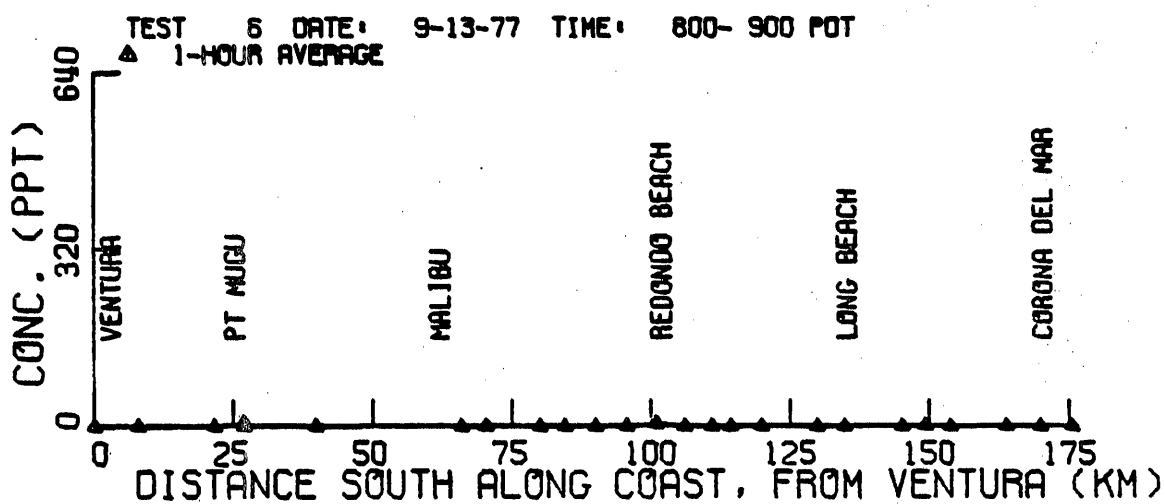
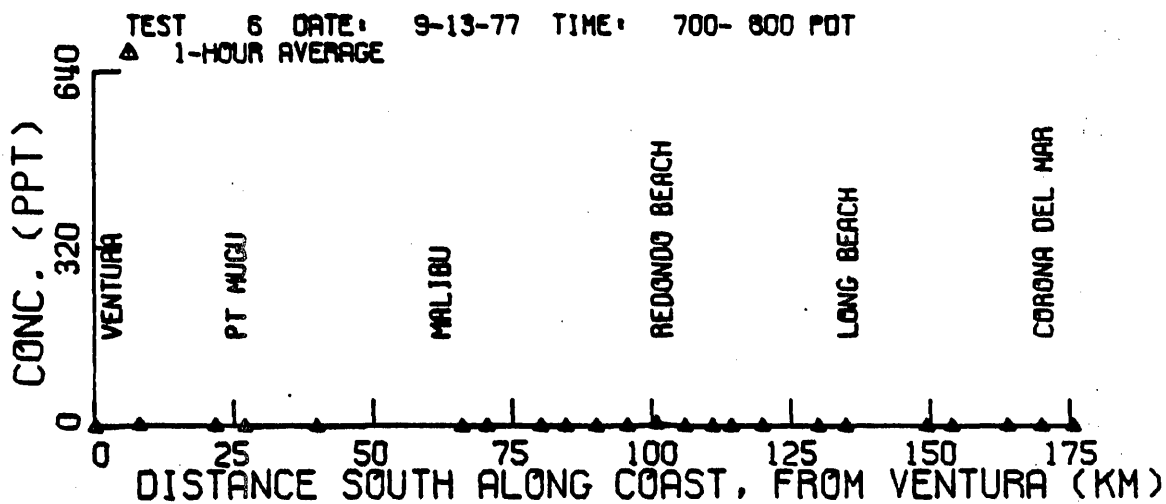
DISTANCE SOUTH OF THE INTERSECTION
OF HWY 5 AND HWY 14, KILOMETERS

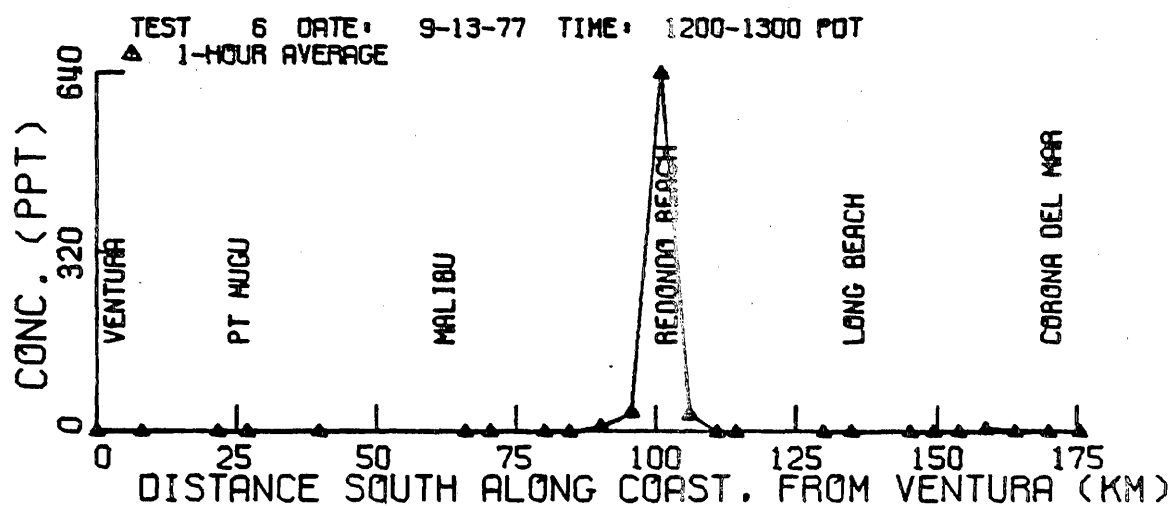
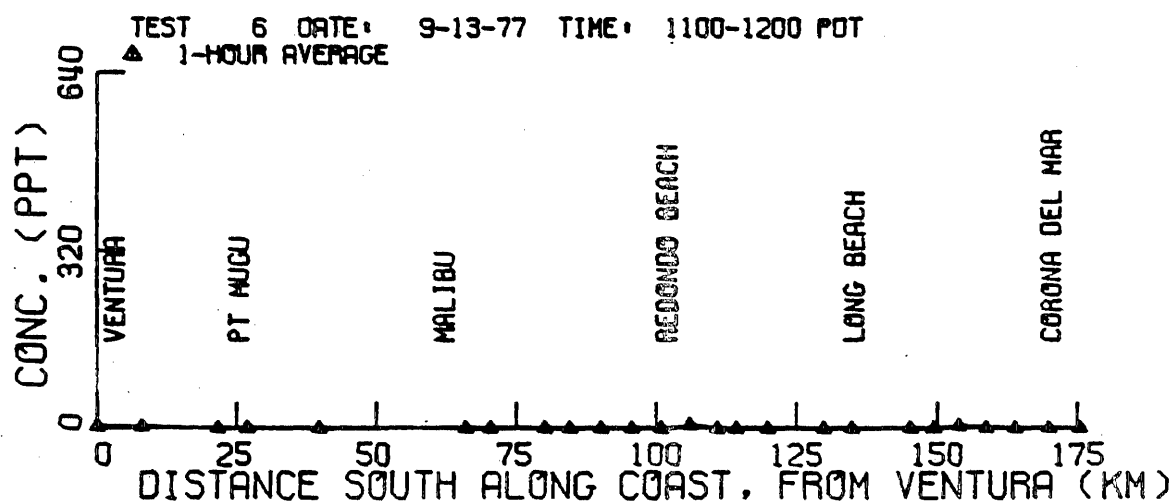
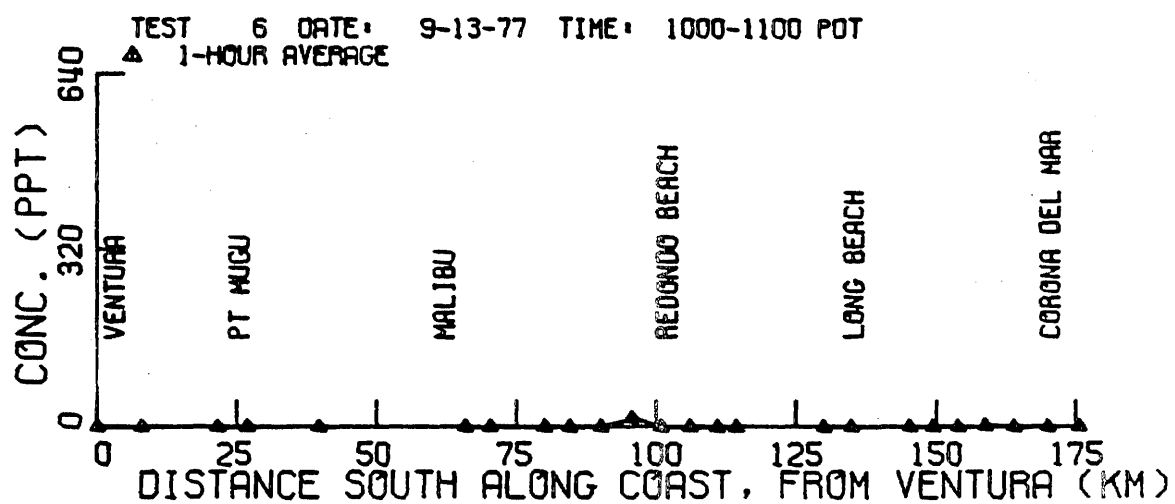
TEST NO.6 CONDUCTED 9-13-77 AUTO TRAVERSE ALONG HWY 5 AND HWY 60S

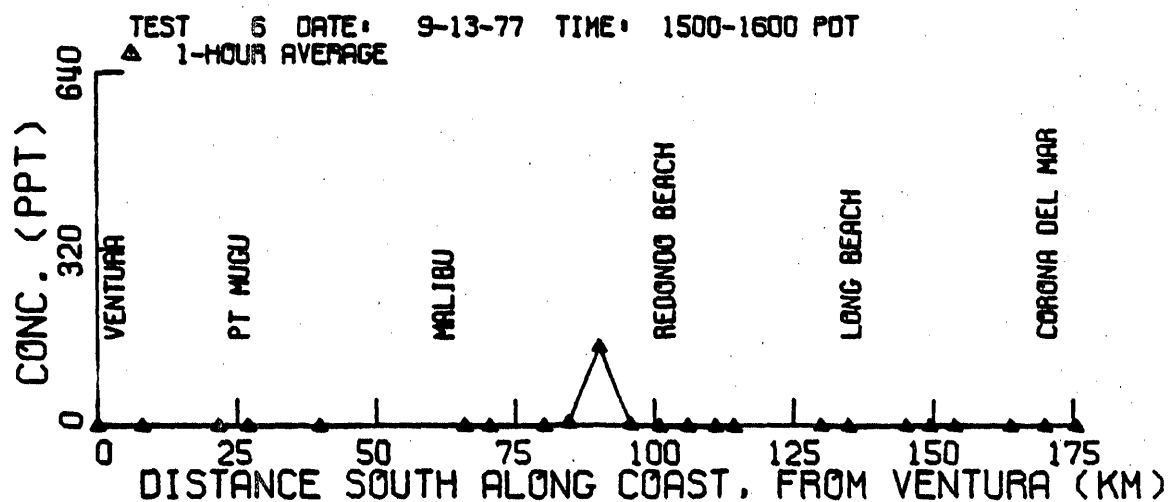
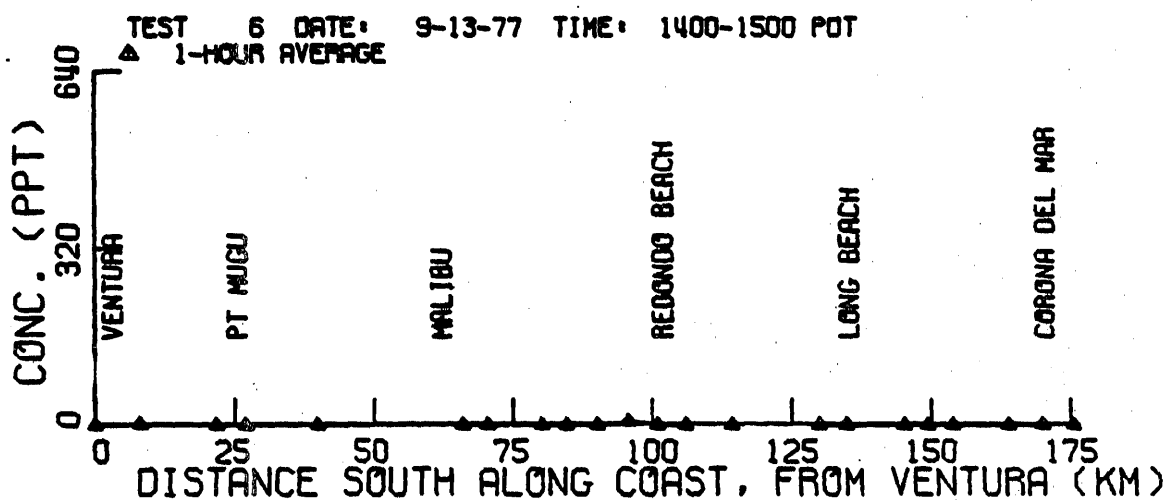
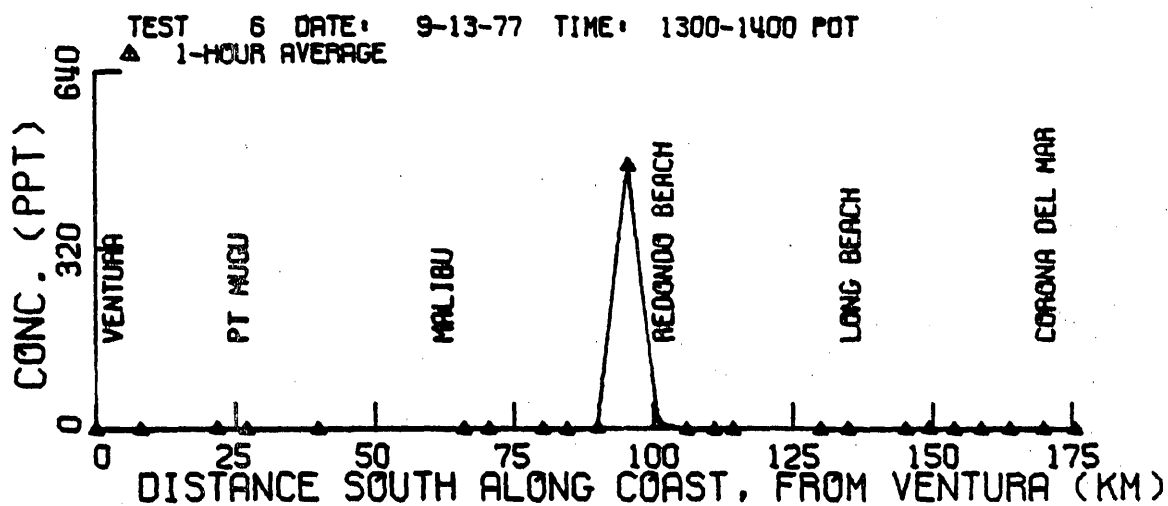


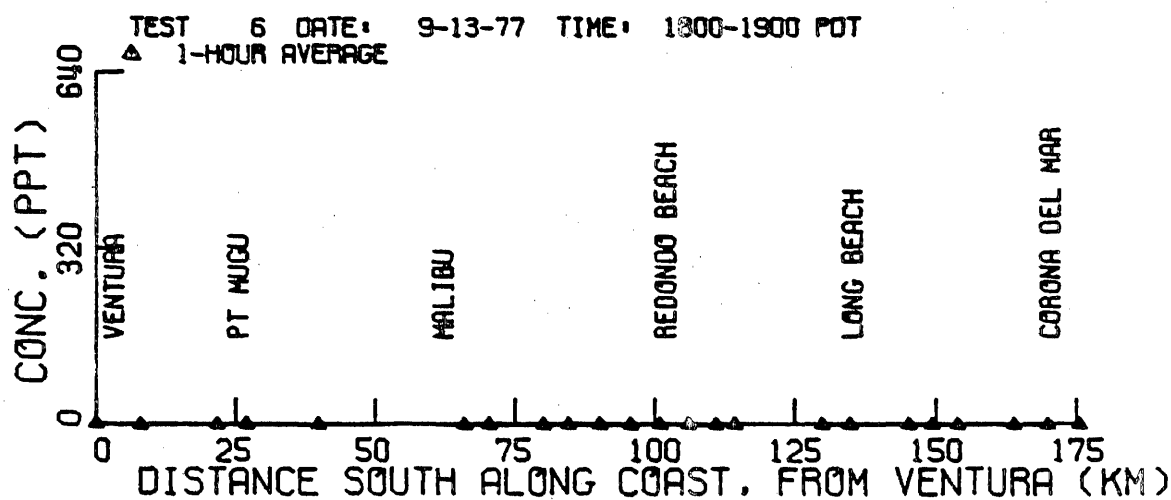
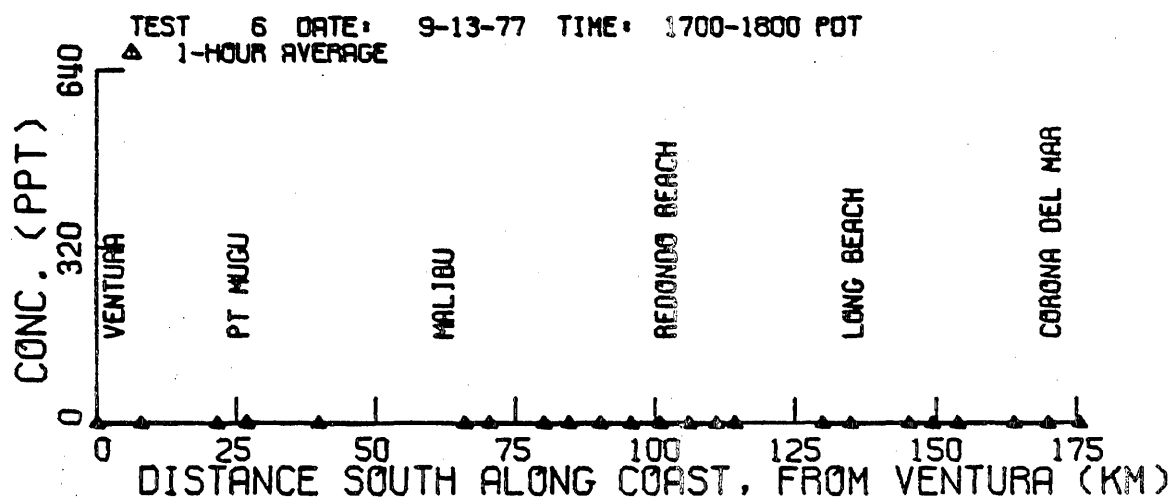
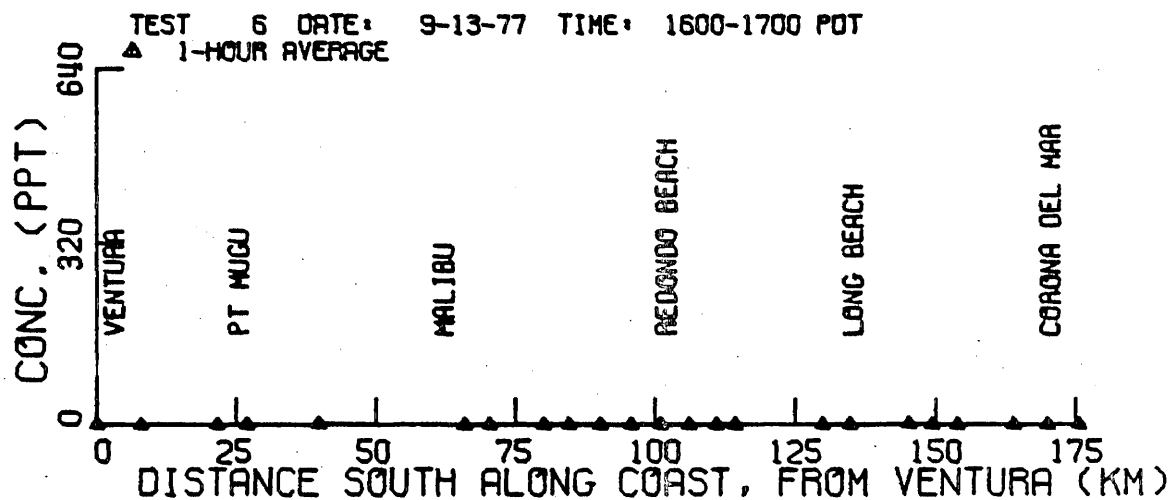
CONC SF6 (PPT)

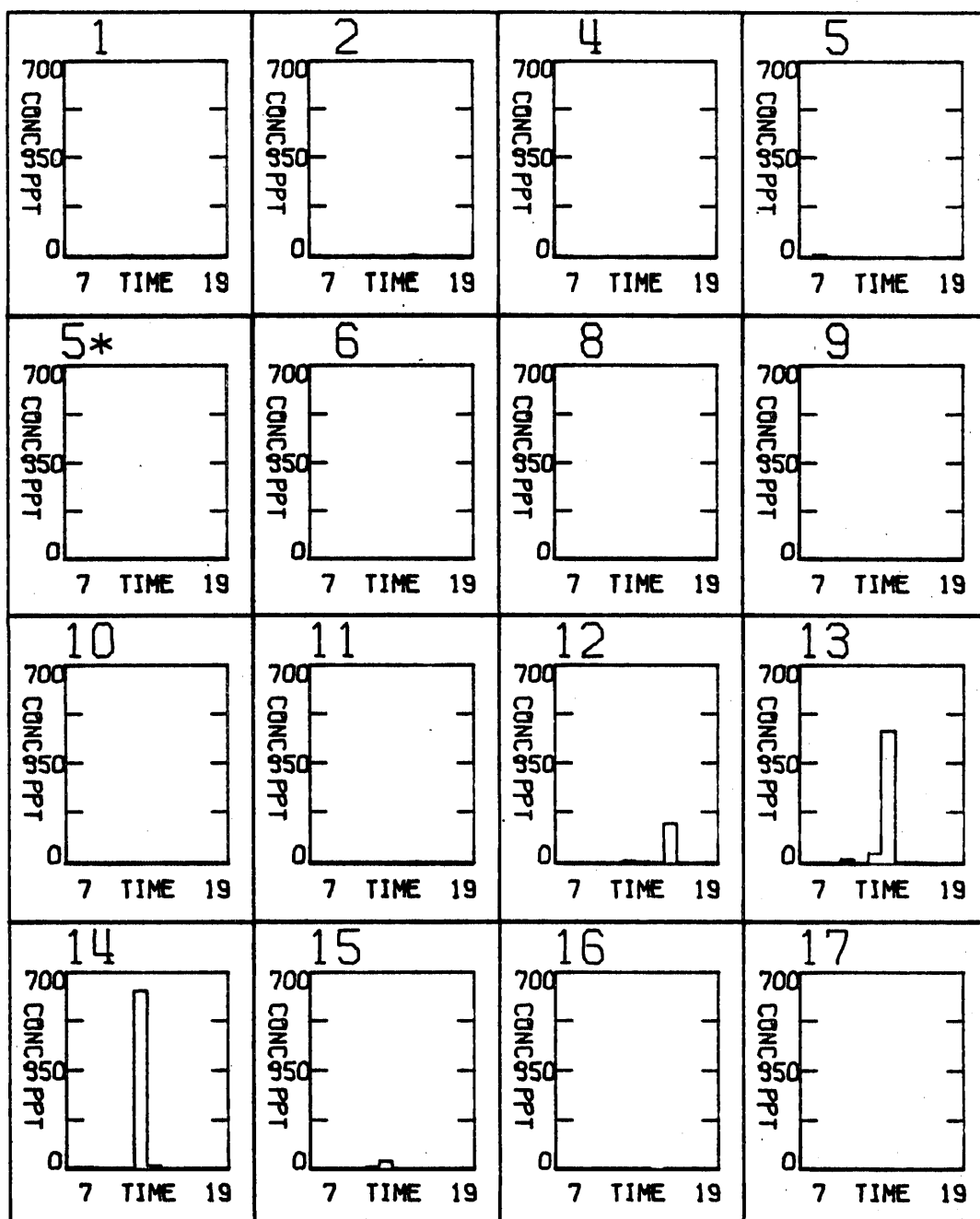






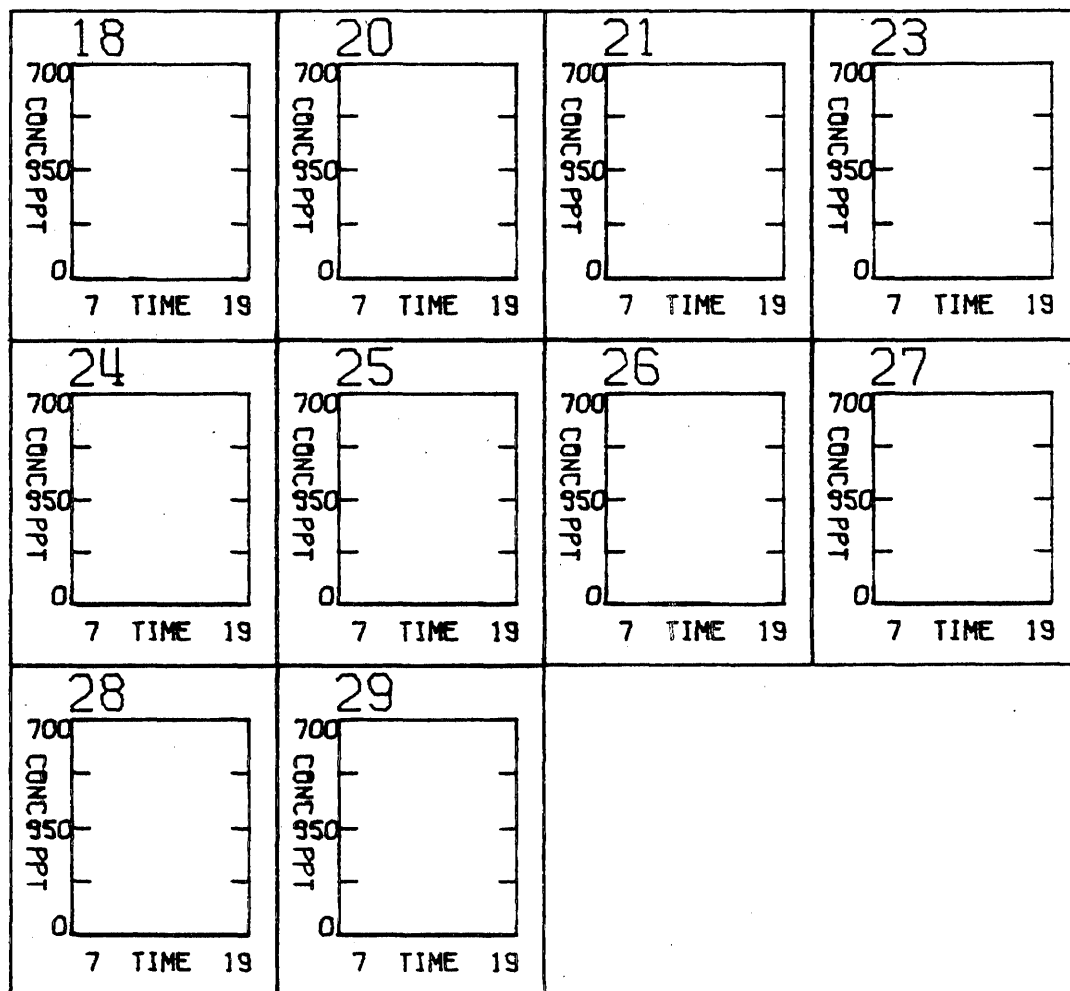






* INDICATES ELEVATED SITE, LAGUNA PEAK

TEST 6



TEST 6

TABLE 3

ONE-HOUR AVERAGED TRACER CONCENTRATION (PPT)

LCS ANGELES TEST NO. 6

SF6 TRACER

	HOUR OF DAY-PACIFIC DAYLIGHT TIME								9-13-77			
STATION NUMBER	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
1	0	0	0	0	2	0	0	0	0	0	0	1
2	2	0	0	0	2	0	0	1	0	0	0	0
4	1	0	0	0	0	0	1	0	0	0	0	0
5	****	6	0	0	0	0	0	0	0	0	0	0
5*	0	0	0	0	0	0	0	0	0	0	1	0
6	0	0	2	0	0	0	0	0	0	1	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	5	0	0	0
12	0	0	0	0	0	9	3	0	142	0	0	0
13	0	0	0	16	0	35	470	5	3	0	0	0
14	4	4	0	0	0	638	11	0	0	0	0	0
15	0	0	0	0	6	30	0	0	0	0	0	0

**** INDICATES UNAVAILABLE OR FAULTY DATA

* INDICATES ELEVATED SITE, LAGUNA PEAK

TABLE 3 (CONT.)

ONE-HOUR AVERAGED TRACER CONCENTRATION (PPT)

LOS ANGELES TEST NO. 6

SF6 TRACER

	HOUR OF DAY-PACIFIC DAYLIGHT TIME								9-13-77			
STATION NUMBER	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
16	0	0	0	0	0	0	0	****	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	****	0	****	****	****	****	****	****	****
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	1	0	0	0	0	0	0	0	0	0
23	****	0	0	0	0	0	0	0	0	1	0	0
24	0	1	0	0	0	0	1	0	0	0	0	0
25	0	0	0	0	4	0	0	0	0	0	0	0
26	****	****	****	1	0	4	0	****	****	****	****	****
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0

**** INDICATES UNAVAILABLE OR FAULTY DATA

* INDICATES ELEVATED SITE, LAGUNA PEAK

Appendix F2

Auto Traverse Tracer Data

for

Test No. 6

Conducted Starting September 13, 1977

February 3, 1982

Page 1

Test: Land Breeze - Sea Breeze, Test 6
 Conducted: September 13-14, 1977
 Release Location: Offshore from R/V Golden West
 Release Rate: 117 pounds SF₆ per hour (14.8 grams per second)
 Release Time: 0900-1400 PDT - September 13, 1977

Traverse Number	Day	Start Time	End Time	Start Location	End Location	Number of Samples	Route
1	1	1017	1102	5 & 14	405 & 7	46	S on 5, 405
2	1	1100	1154	5 & 14	605 & 405	50	S on 5, 605
3	1	1142	1228	405 & 7	5 & 14	46	N on 405, 5
4	1	1214	1229	5 & 605	210 & 605	18	N on 605
5	1	1234	1250	210 & 605	5 & 605	17	S on 605
6	1	1234	1327	405 & 605	5 & 14	50	N on 605, 5
7	1	1258	1327	57 & Covina Blvd	5 & 55	30	S on 57, 5
8	1	1259	1316	5 & 605	605 & 210	18	N on 605
9	1	1304	1348	5 & 14	405 & 7	46	S on 5, 405
10	1	1330	1346	605 & 210	605 & 5	18	S on 605
11	1	1356	1452	5 & 14	605 & 405	50	S on 5, 605
12	1	1400	1416	605 & 5	605 & 210	18	N on 605
13	1	1400	1431	55 & 5	210 & 30	31	N on 5, 57, 210
14	1	1426	1512	405 & 7	5 & 14	46	N on 405, 5
15	1	1433	1449	605 & 210	605 & 5	18	S on 605
16	1	1456	1529	210 & 30	5 & 55	31	S on 210, 57, 5
17	1	1458	1516	605 & 5	605 & 210	18	N on 605
18	1	1530	1627	605 & 405	5 & 14	50	N on 605, 5
19	1	1531	1546	605 & 210	605 & 5	18	S on 605
20	1	1555	1612	605 & 5	605 & 210	18	N on 605

Test: Land Breeze - Sea Breeze, Test 6

Conducted: September 13-14, 1977

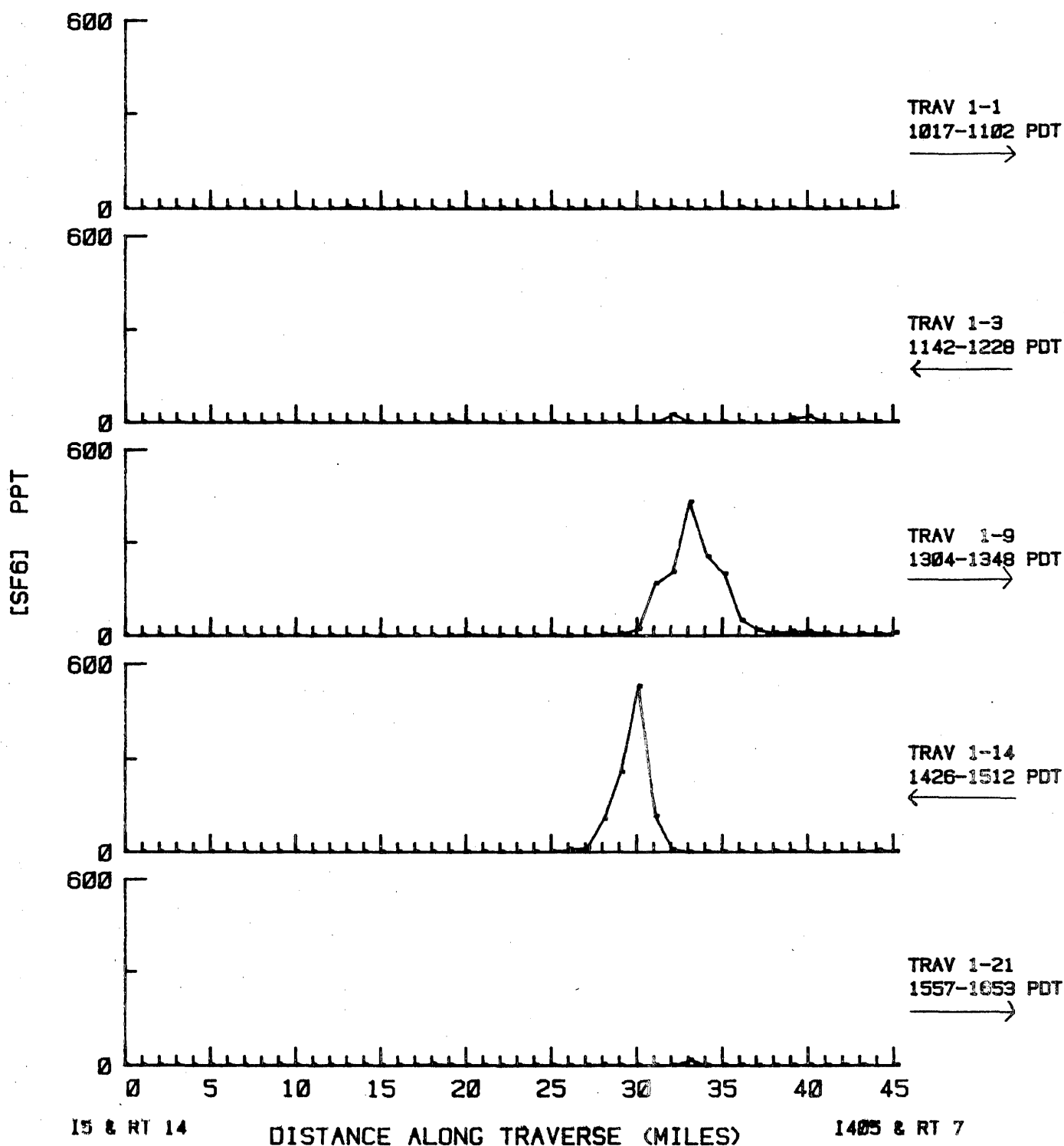
Release Location: Offshore from R/V Golden West

Release Rate: 117 pounds SF₆ per hour (14.8 grams per second)

Release Time: 0900-1400 PDT - September 13, 1977

[illegible]

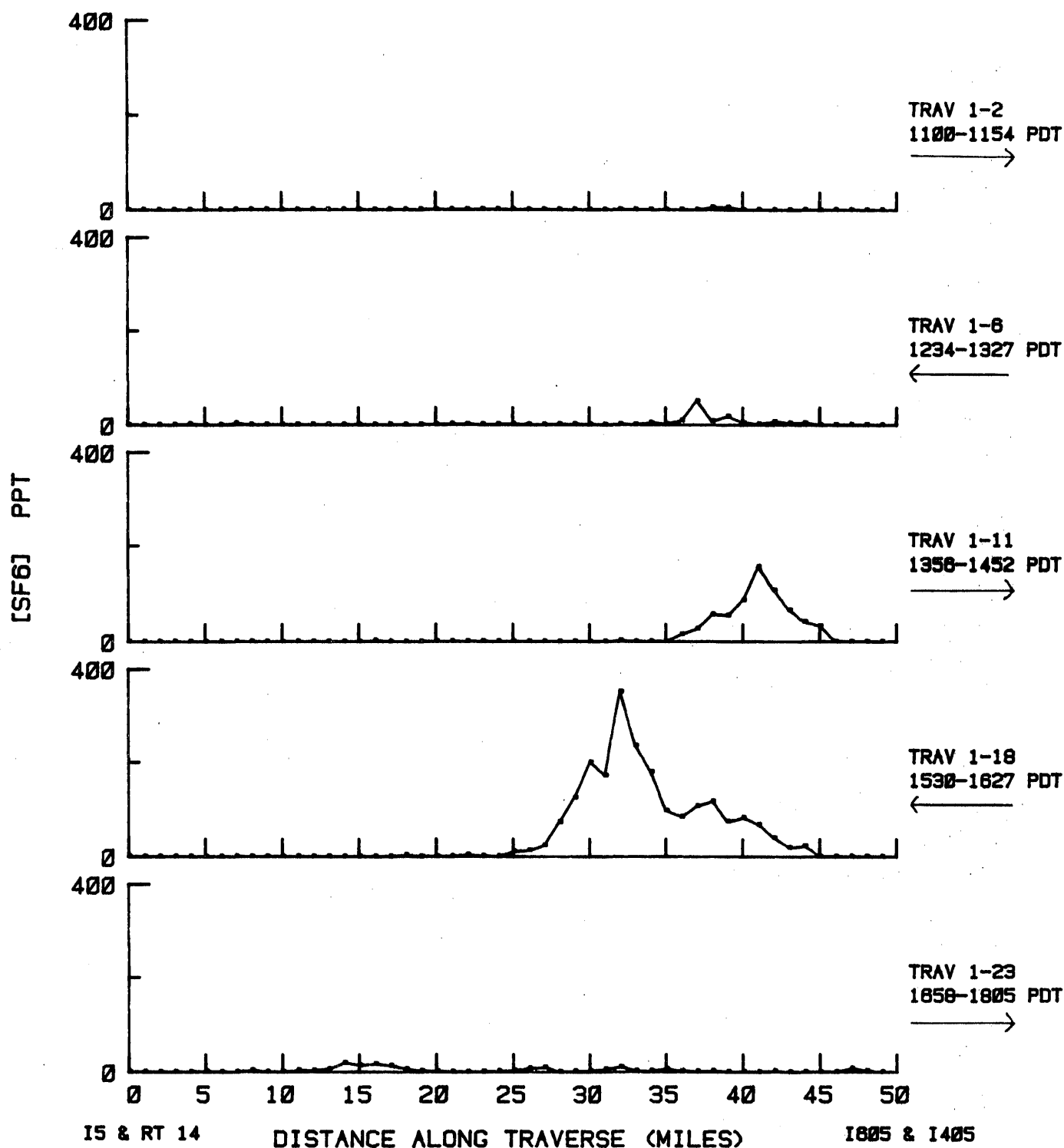
LSB-6 AUTO TRAVERSES ALONG I5 & I405, 9/13/77



RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM
 GOLDEN WEST-DUE SOUTH OF POINT DUME, DUE WEST OF EL SEGUNDO
 RELEASE TIME: 0900-1400 PDT, 9/13/77

→ INDICATES DIRECTION OF TRAVERSE

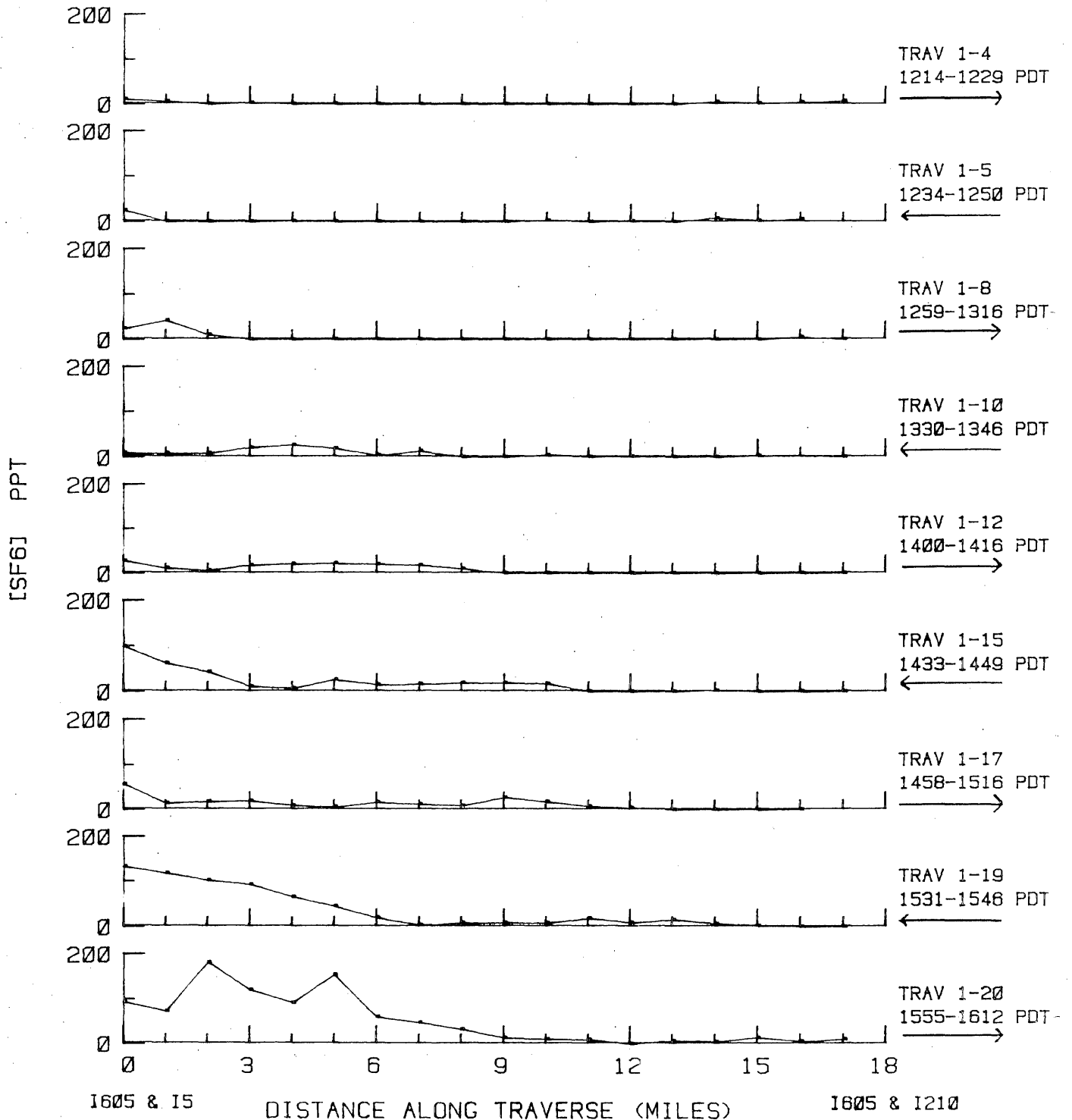
LSB-6 AUTO TRAVERSES ALONG I5 & I605, 9/13/77



RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM
 GOLDEN WEST-DUE SOUTH OF POINT DUME, DUE WEST OF EL SEGUNDO
 RELEASE TIME: 0900-1400 PDT, 9/13/77

→ INDICATES DIRECTION OF TRAVERSE

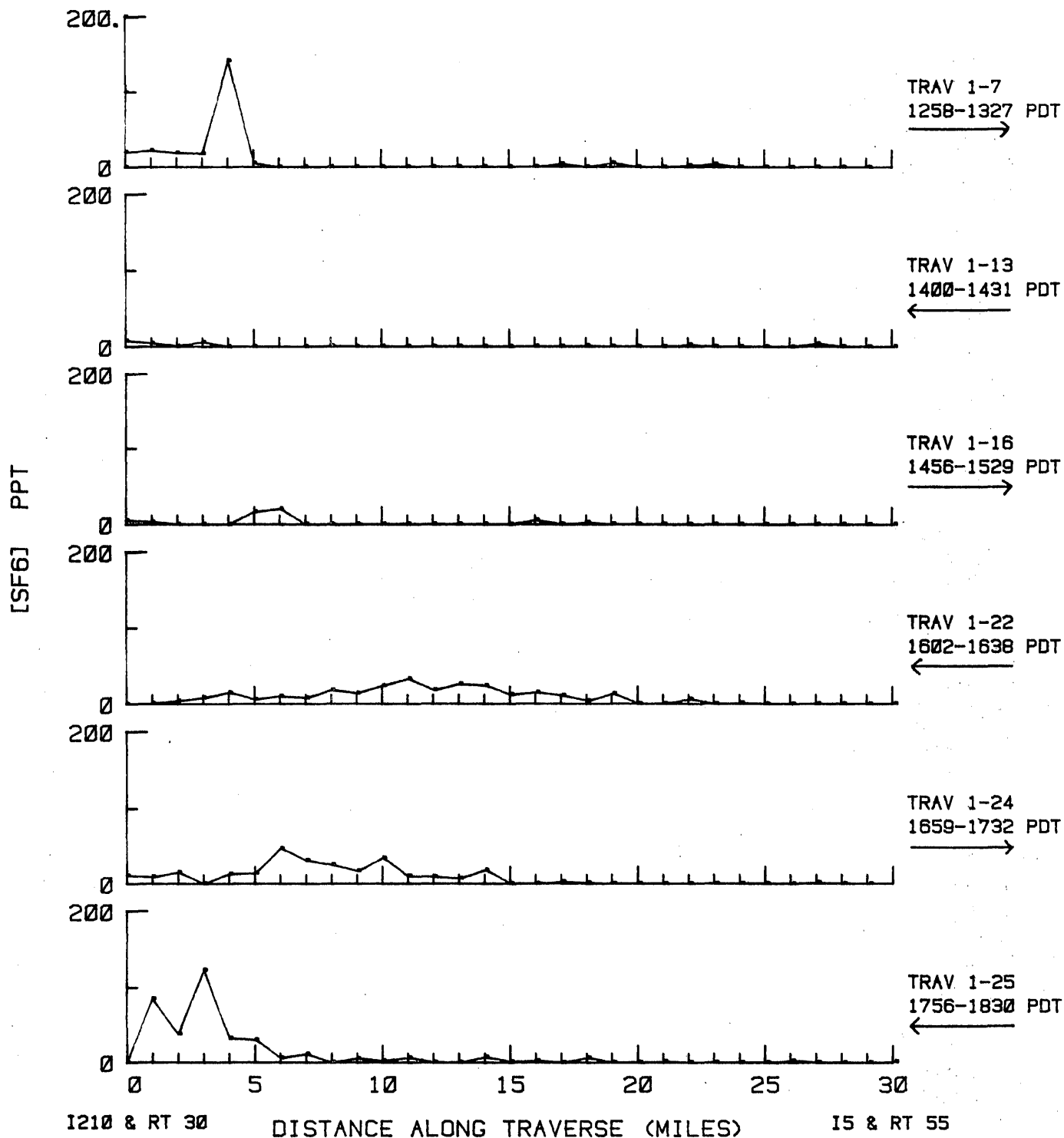
LSB-6 AUTO TRAVERSES ALONG I605, 9/13/77



RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM
 GOLDEN WEST-DUE SOUTH OF POINT DUME, DUE WEST OF EL SEGUNDO
 RELEASE TIME: 0900-1400 PDT, 9/13/77

→ INDICATES DIRECTION OF TRAVERSE

LSB-6 AUTO TRAVERSES ALONG I210, RT57, & I5-9/13/77



RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM
 GOLDEN WEST-DUE SOUTH OF POINT DUME, DUE WEST OF EL SEGUNDO
 RELEASE TIME: 0900-1400 PDT, 9/13/77

—————> INDICATES DIRECTION OF TRAVERSE

LSB-6

1-1



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

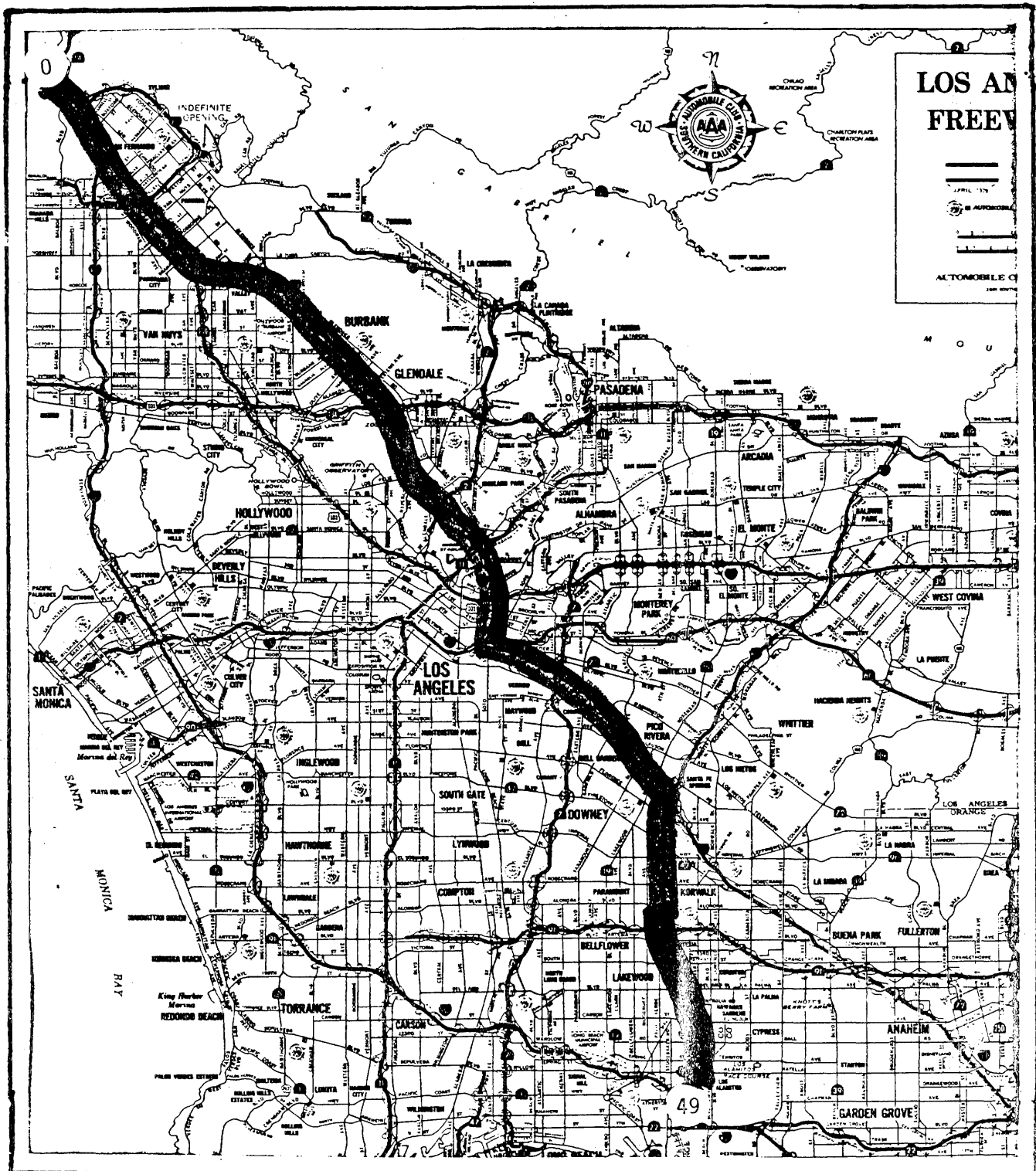
1-1 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1017 PDT, 9/13/77 AT 5 & 14
TRAVERSE END: 1102 PDT AT 405 & 7
TRAVERSE ROUTE: S ON 5, 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	1
1	0	26	0
2	0	27	0
3	0	28	0
4	1	29	0
5	0	30	0
6	0	31	2
7	1	32	1
8	0	33	0
9	0	34	0
10	0	35	0
11	0	36	2
12	0	37	0
13	5	38	0
14	1	39	0
15	0	40	0
16	4	41	0
17	0	42	0
18	0	43	0
19	0	44	0
20	0	45	4
21	0		
22	2		
23	0		
24	0		



1-2 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

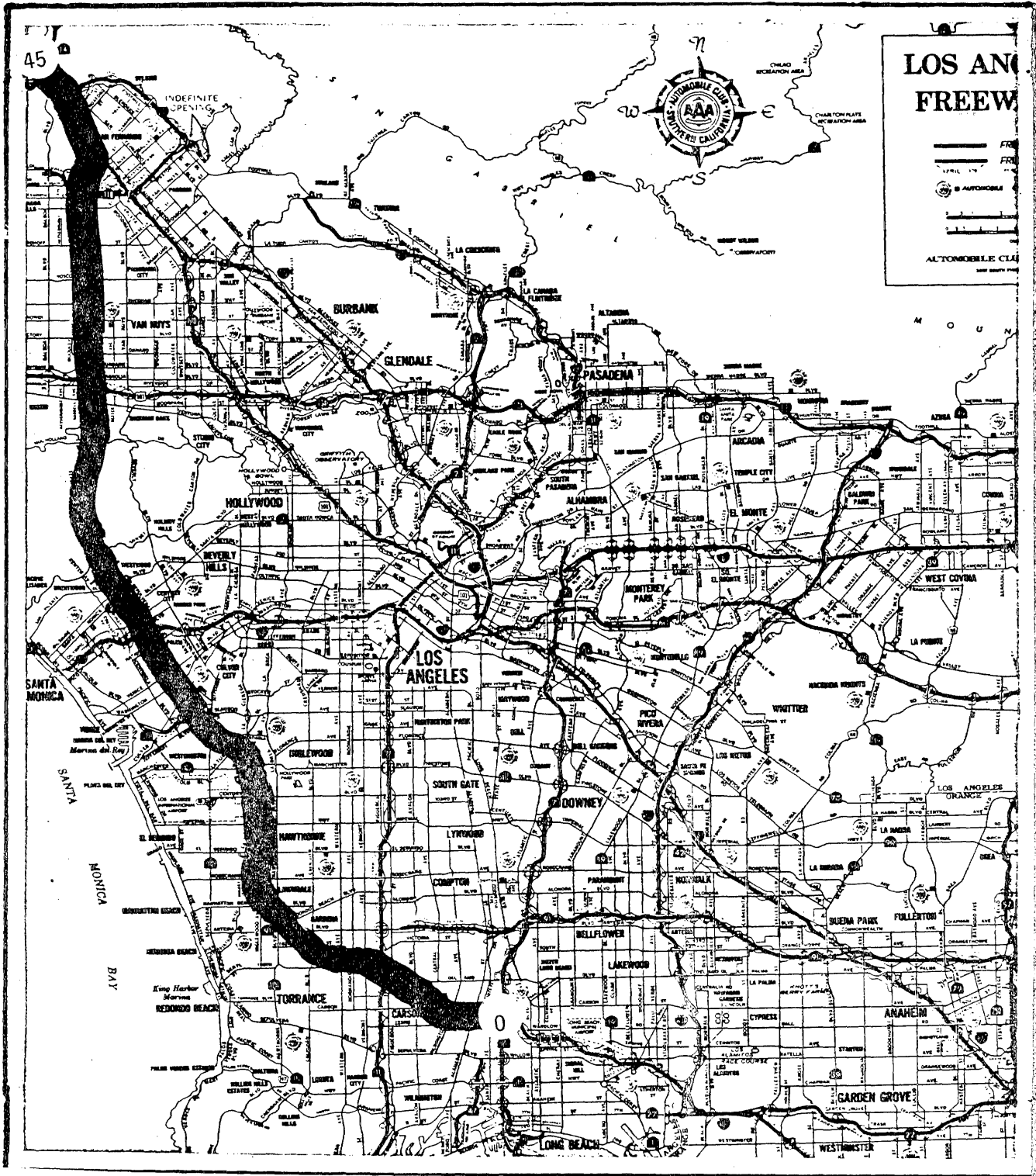
TRAVERSE START: 1100 PDT, 9/13/77 AT 5 & 14
TRAVERSE END: 1154 PDT AT 605 & 405
TRAVERSE ROUTE: S ON 5, 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	0
1	0	26	0
2	0	27	0
3	0	28	0
4	0	29	0
5	0	30	0
6	0	31	0
7	0	32	0
8	0	33	0
9	0	34	0
10	0	35	0
11	0	36	0
12	0	37	0
13	0	38	5
14	0	39	5
15	0	40	0
16	0	41	0
17	0	42	0
18	0	43	0
19	0	44	0
20	0	45	0
21	0	46	0
22	0	47	0
23	0	48	0
24	0	49	0

LSB-6

1-3



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-3 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1142 PDT, 9/13/77 AT 405 & 7
TRAVERSE END: 1228 PDT AT 5 & 14
TRAVERSE ROUTE: N ON 405, 5

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	0
1	1	26	6
2	3	27	0
3	0	28	0
4	0	29	0
5	18	30	0
6	12	31	0
7	0	32	0
8	0	33	0
9	0	34	0
10	0	35	0
11	0	36	2
12	0	37	0
13	25	38	0
14	0	39	0
15	0	40	0
16	0	41	0
17	0	42	0
18	0	43	0
19	0	44	0
20	0	45	0
21	0		
22	0		
23	0		
24	0		

LSB-6

1-4



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-4 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1214 PDT, 9/13/77 AT 5 & 605
TRAVERSE END: 1229 PDT AT 210 & 605
TRAVERSE ROUTE: N ON 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	10
1	6
2	0
3	3
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	6
15	3
16	4
17	7

LSB-6

1-5



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-5 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1234 PDT, 9/13/77 AT 210 & 605
TRAVERSE END: 1250 PDT AT 5 & 605
TRAVERSE ROUTE: S ON 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	6
1	3
2	9
3	0
4	1
5	0
6	3
7	0
8	0
9	0
10	0
11	0
12	1
13	0
14	0
15	0
16	24

LSB-6

1-6



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-6 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1234 PDT, 9/13/77 AT 405 & 605

TRAVERSE END: 1327 PDT AT 5 & 14

TRAVERSE ROUTE: N ON 605, 5

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	1
1	0	26	0
2	0	27	1
3	0	28	2
4	0	29	0
5	4	30	0
6	4	31	0
7	7	32	0
8	2	33	0
9	4	34	0
10	18	35	0
11	8	36	0
12	51	37	0
13	9	38	0
14	2	39	0
15	4	40	0
16	0	41	0
17	1	42	3
18	0	43	0
19	1	44	0
20	1	45	2
21	1	46	0
22	0	47	0
23	0	48	0
24	2	49	0

LSB-6

1-7



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-7 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1258 PDT, 9/13/77 AT 57 & COVINA BLVD
TRAVERSE END: 1327 PDT AT 55 & 5
TRAVERSE ROUTE: S ON 57, 5

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	20	25	0
1	22	26	0
2	19	27	0
3	18	28	0
4	142	29	0
5	5		
6	0		
7	0		
8	0		
9	0		
10	0		
11	0		
12	0		
13	0		
14	0		
15	0		
16	0		
17	4		
18	0		
19	5		
20	0		
21	0		
22	2		
23	4		
24	0		

LSB-6

1-8



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-8 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1259 PDT, 9/13/77 AT 5 & 605
TRAVERSE END: 1316 PDT AT 605 & 210
TRAVERSE ROUTE: N ON 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	24
1	42
2	10
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	5
17	0

LSB-6

1-9



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-9 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1304 PDT, 9/13/77 AT 5 & 14
TRAVERSE END: 1348 PDT AT 405 & 7
TRAVERSE ROUTE: S ON 5, 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6]</u>	<u>PPT</u>	<u>MILEAGE</u>	<u>[SF6]</u>	<u>PPT</u>
0		0	25		0
1		0	26		0
2		0	27		0
3		0	28		3
4		0	29		5
5		0	30		20
6		0	31		165
7		0	32		202
8		0	33		430
9		0	34		252
10		0	35		196
11		0	36		46
12		0	37		16
13		0	38		8
14		0	39		12
15		0	40		10
16		0	41		6
17		0	42		2
18		0	43		4
19		0	44		4
20		4	45		7
21		0			
22		0			
23		0			
24		0			

LSB-6

1-10



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-10 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

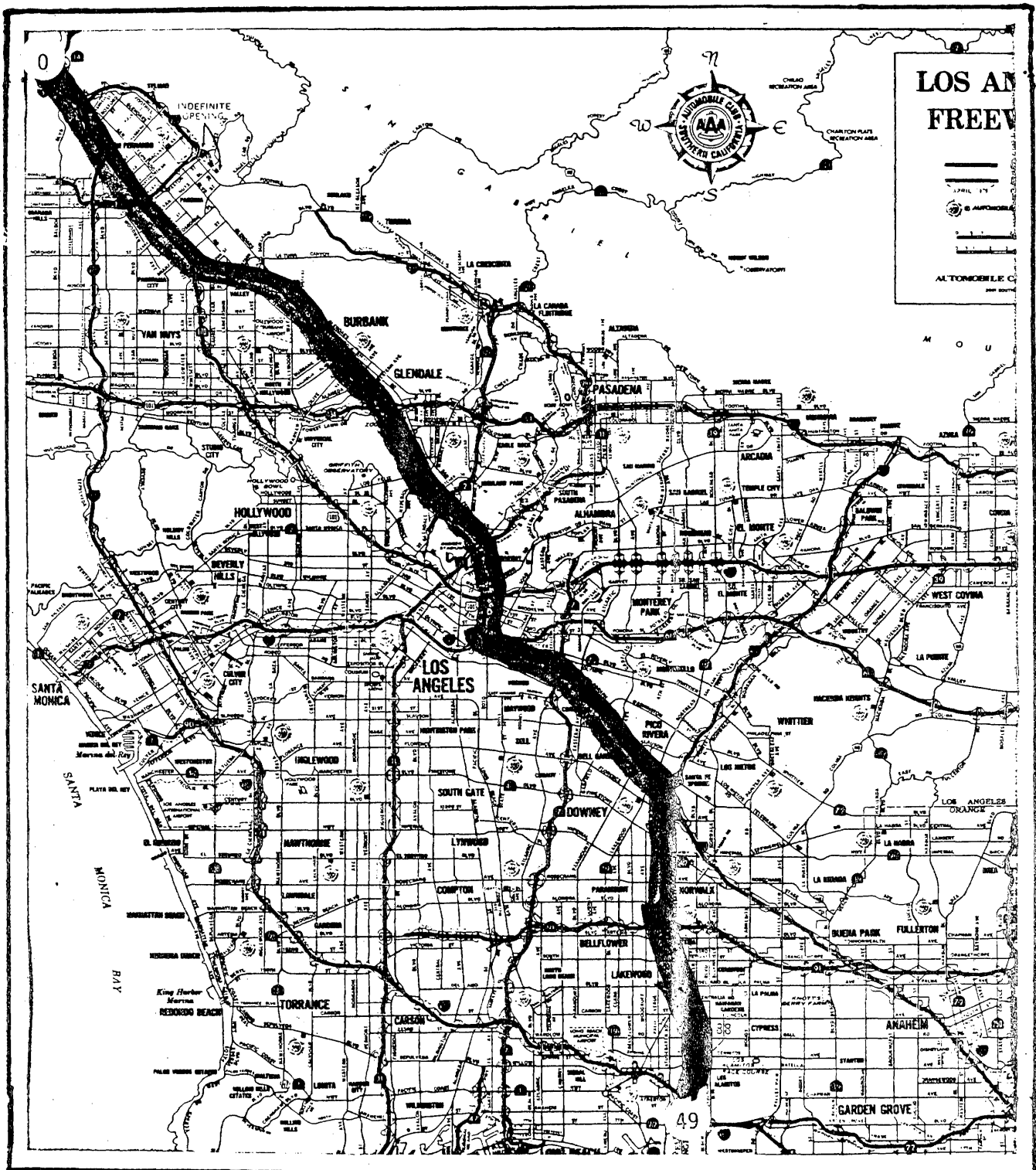
TRAVERSE START: 1330 PDT, 9/13/77 AT 605 & 210
TRAVERSE END: 1346 PDT AT 605 & 5
TRAVERSE ROUTE: S ON 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0
1	*
2	3
3	0
4	0
5	1
6	0
7	5
8	0
9	0
10	13
11	4
12	19
13	27
14	21
15	9
16	8
17	9

LSB-6

1-11



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-11 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST

RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1356 PDT, 9/13/77 AT 5 & 14

TRAVERSE END: 1452 PDT AT 605 & 405

TRAVERSE ROUTE: S ON 5, 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	0
1	0	26	0
2	0	27	0
3	0	28	0
4	0	29	0
5	0	30	0
6	0	31	0
7	0	32	2
8	0	33	0
9	0	34	0
10	0	35	0
11	0	36	15
12	0	37	27
13	0	38	57
14	0	39	55
15	0	40	87
16	2	41	155
17	0	42	107
18	0	43	66
19	0	44	41
20	0	45	33
21	0	46	0
22	0	47	0
23	0	48	0
24	0	49	0

LSB-6

1-12



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-12 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1400 PDT, 9/13/77 AT 605 & 5
TRAVERSE END: 1416 PDT AT 605 & 210
TRAVERSE ROUTE: N ON 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	27
1	11
2	6
3	18
4	21
5	22
6	20
7	18
8	10
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

LSB-6

1-13



1-13 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1400 PDT, 9/13/77 AT 55 & 5
TRAVERSE END: 1431 PDT AT 210 & 30
TRAVERSE ROUTE: N ON 5, 57, 210

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	0
1	0	26	0
2	0	27	6
3	4	28	1
4	0	29	5
5	0	30	8
6	0		
7	0		
8	2		
9	0		
10	0		
11	0		
12	1		
13	0		
14	0		
15	0		
16	0		
17	0		
18	0		
19	0		
20	0		
21	0		
22	1		
23	0		
24	*		

LSB-6

1-14



1-14 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1426 PDT, 9/13/77 AT 405 & 7
TRAVERSE END: 1512 PDT AT 5 & 14
TRAVERSE ROUTE: N ON 405, 5

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	0
1	6	26	0
2	0	27	0
3	0	28	0
4	0	29	0
5	0	30	0
6	0	31	0
7	3	32	0
8	0	33	0
9	0	34	0
10	0	35	0
11	1	36	1
12	0	37	0
13	7	38	0
14	115	39	1
15	531	40	0
16	258	41	0
17	106	42	0
18	13	43	0
19	9	44	0
20	0	45	0
21	0		
22	0		
23	0		
24	0		

LSB-6

1-15



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-15 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1433 PDT, 9/13/77 AT 605 & 210

TRAVERSE END: 1449 PDT AT 605 & 5

TRAVERSE ROUTE: S ON 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0
1	0
2	0
3	3
4	0
5	0
6	0
7	17
8	19
9	19
10	16
11	15
12	26
13	7
14	11
15	43
16	62
17	98

LSB-6

1-16



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-16 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1456 PDT, 9/13/77 AT 210 & 30
TRAVERSE END: 1529 PDT AT 5 & 55
TRAVERSE ROUTE: S ON 210, 57, 5

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	5	25	0
1	3	26	0
2	0	27	0
3	0	28	0
4	0	29	0
5	16	30	0
6	20		
7	0		
8	0		
9	0		
10	0		
11	0		
12	0		
13	0		
14	0		
15	0		
16	5		
17	0		
18	2		
19	0		
20	0		
21	0		
22	0		
23	0		
24	0		

LSB-6

1-17



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-17 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1458 PDT, 9/13/77 AT 605 & 5
TRAVERSE END: 1516 PDT AT 605 & 210
TRAVERSE ROUTE: N ON 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	56
1	14
2	18
3	19
4	9
5	6
6	16
7	12
8	9
9	27
10	17
11	7
12	4
13	0
14	0
15	0
16	0
17	*

LSB-6

1-18



1-18 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

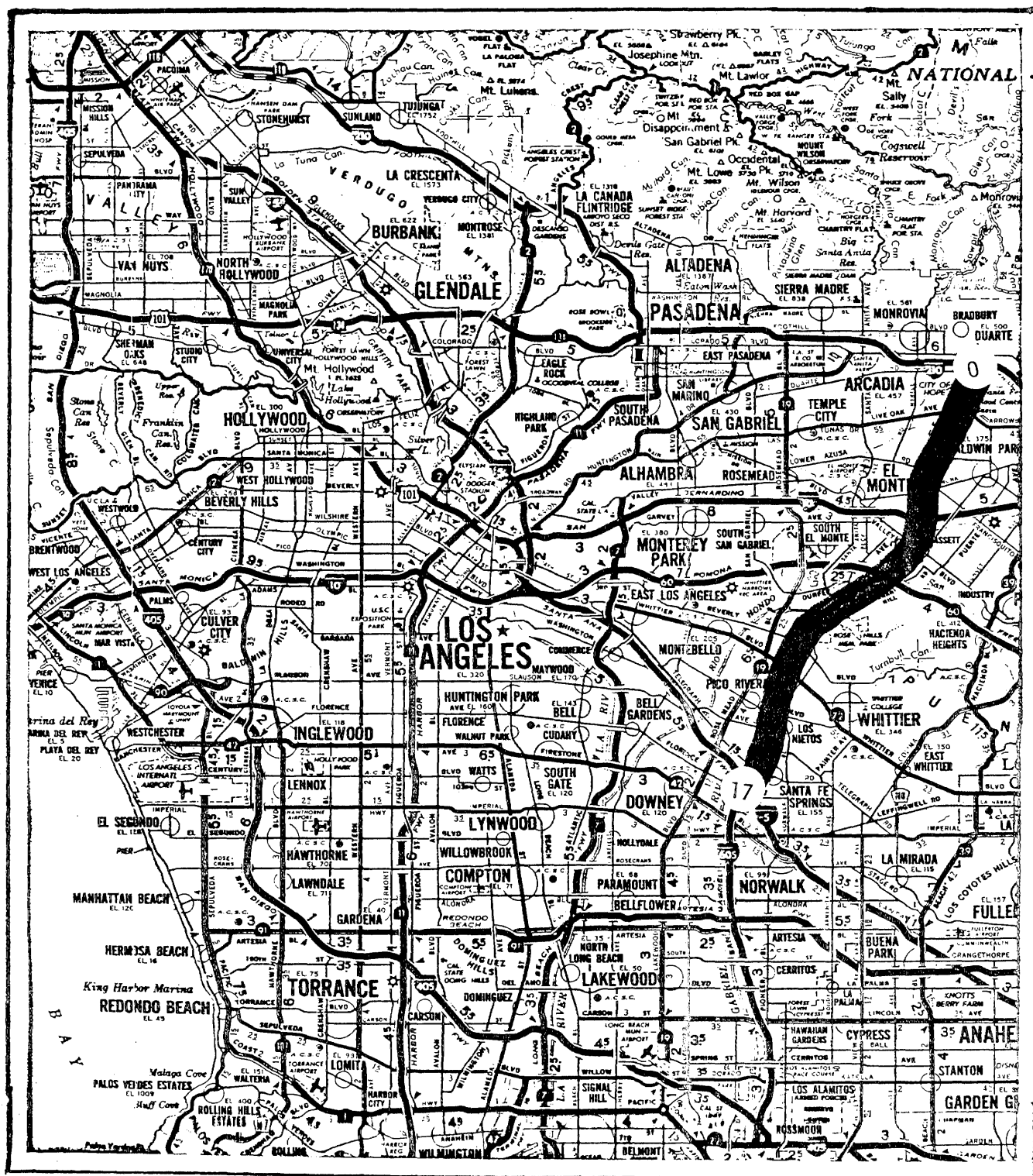
TRAVERSE START: 1530 PDT, 9/13/77 AT 605 & 405
TRAVERSE END: 1627 PDT AT 5 & 14
TRAVERSE ROUTE: N ON 605, 5

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	0
1	0	26	1
2	0	27	3
3	0	28	0
4	0	29	0
5	22	30	0
6	19	31	3
7	39	32	0
8	67	33	0
9	81	34	0
10	73	35	0
11	116	36	0
12	106	37	0
13	83	38	0
14	96	39	0
15	178	40	0
16	234	41	0
17	350	42	0
18	171	43	0
19	199	44	0
20	124	45	0
21	72	46	0
22	23	47	0
23	13	48	0
24	10	49	0

LSB-6

1-19



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-19 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1531 PDT, 9/13/77 AT 605 & 210

TRAVERSE END: 1546 PDT AT 605 & 5

TRAVERSE ROUTE: S ON 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0
1	0
2	3
3	7
4	15
5	9
6	18
7	8
8	9
9	8
10	4
11	19
12	45
13	65
14	92
15	101
16	117
17	131



1-20 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1555 PDT, 9/13/77 AT 605 & 5
TRAVERSE END: 1612 PDT AT 605 & 210
TRAVERSE ROUTE: N ON 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	91
1	72
2	181
3	120
4	91
5	153
6	59
7	47
8	32
9	13
10	10
11	9
12	0
13	7
14	5
15	14
16	5
17	10

LSB-6

1-21



1-21 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1557 PDT, 9/13/77 AT 5 & 14
TRAVERSE END: 1653 PDT AT 405 & 7
TRAVERSE ROUTE: S ON 5, 405

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6]</u>	<u>PPT</u>	<u>MILEAGE</u>	<u>[SF6]</u>	<u>PPT</u>
0	0		25	0	
1	0		26	0	
2	0		27	0	
3	0		28	2	
4	0		29	0	
5	0		30	0	
6	0		31	0	
7	0		32	0	
8	0		33	17	
9	2		34	0	
10	0		35	0	
11	0		36	0	
12	0		37	0	
13	0		38	0	
14	1		39	0	
15	0		40	0	
16	0		41	0	
17	0		42	0	
18	4		43	0	
19	1		44	*	
20	0		45	0	
21	0				
22	0				
23	0				
24	0				

LSB-6

1-22



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-22 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1602 PDT, 9/13/77 AT 55 & 5
TRAVERSE END: 1638 PDT AT 30 & 210
TRAVERSE ROUTE: N ON 5, 57, 210

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	0	25	6
1	0	26	15
2	0	27	8
3	0	28	4
4	0	29	1
5	0	30	0
6	1		
7	0		
8	6		
9	0		
10	0		
11	13		
12	4		
13	11		
14	15		
15	12		
16	24		
17	26		
18	18		
19	33		
20	24		
21	14		
22	18		
23	8		
24	10		

LSB-6

1-23



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-23 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1658 PDT, 9/13/77 AT 5 & 14
TRAVERSE END: 1805 PDT AT 605 & 405
TRAVERSE ROUTE: S ON 5, 605

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6]</u>	<u>PPT</u>	<u>MILEAGE</u>	<u>[SF6]</u>	<u>PPT</u>
0	0		25	3	
1	0		26	7	
2	0		27	9	
3	0		28	0	
4	0		29	1	
5	1		30	2	
6	0		31	5	
7	0		32	10	
8	3		33	2	
9	0		34	2	
10	0		35	6	
11	3		36	2	
12	3		37	1	
13	6		38	2	
14	19		39	0	
15	14		40	0	
16	17		41	0	
17	13		42	2	
18	6		43	0	
19	2		44	0	
20	1		45	0	
21	0		46	0	
22	0		47	7	
23	0		48	2	
24	1		49	0	

LSB-6

1-24



1-24 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1659 PDT, 9/13/77 AT 210 & 30
TRAVERSE END: 1732 PDT AT 5 & 55
TRAVERSE ROUTE: S ON 210, 57, 5

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	11	25	0
1	9	26	0
2	15	27	1
3	0	28	0
4	13	29	0
5	14	30	*
6	47		
7	31		
8	25		
9	17		
10	34		
11	10		
12	9		
13	7		
14	18		
15	0		
16	0		
17	2		
18	1		
19	0		
20	0		
21	0		
22	0		
23	0		
24	0		

LSB-6

1-25



THE NUMBERS INDICATE THE MILES TRAVELED ALONG THE TRAVERSE ROUTE

1-25 TRAV LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

TRAVERSE START: 1756 PDT, 9/13/77 AT 5 & 55
TRAVERSE END: 1830 PDT AT 210 & 30
TRAVERSE ROUTE: N ON 5, 57, 210

* DENOTES MISSING DATA

<u>MILEAGE</u>	<u>[SF6] PPT</u>	<u>MILEAGE</u>	<u>[SF6] PPT</u>
0	1	25	30
1	0	26	32
2	0	27	123
3	0	28	38
4	2	29	85
5	0	30	0
6	0		
7	0		
8	0		
9	1		
10	0		
11	0		
12	6		
13	0		
14	2		
15	1		
16	7		
17	0		
18	0		
19	6		
20	2		
21	5		
22	0		
23	11		
24	6		

Appendix F3

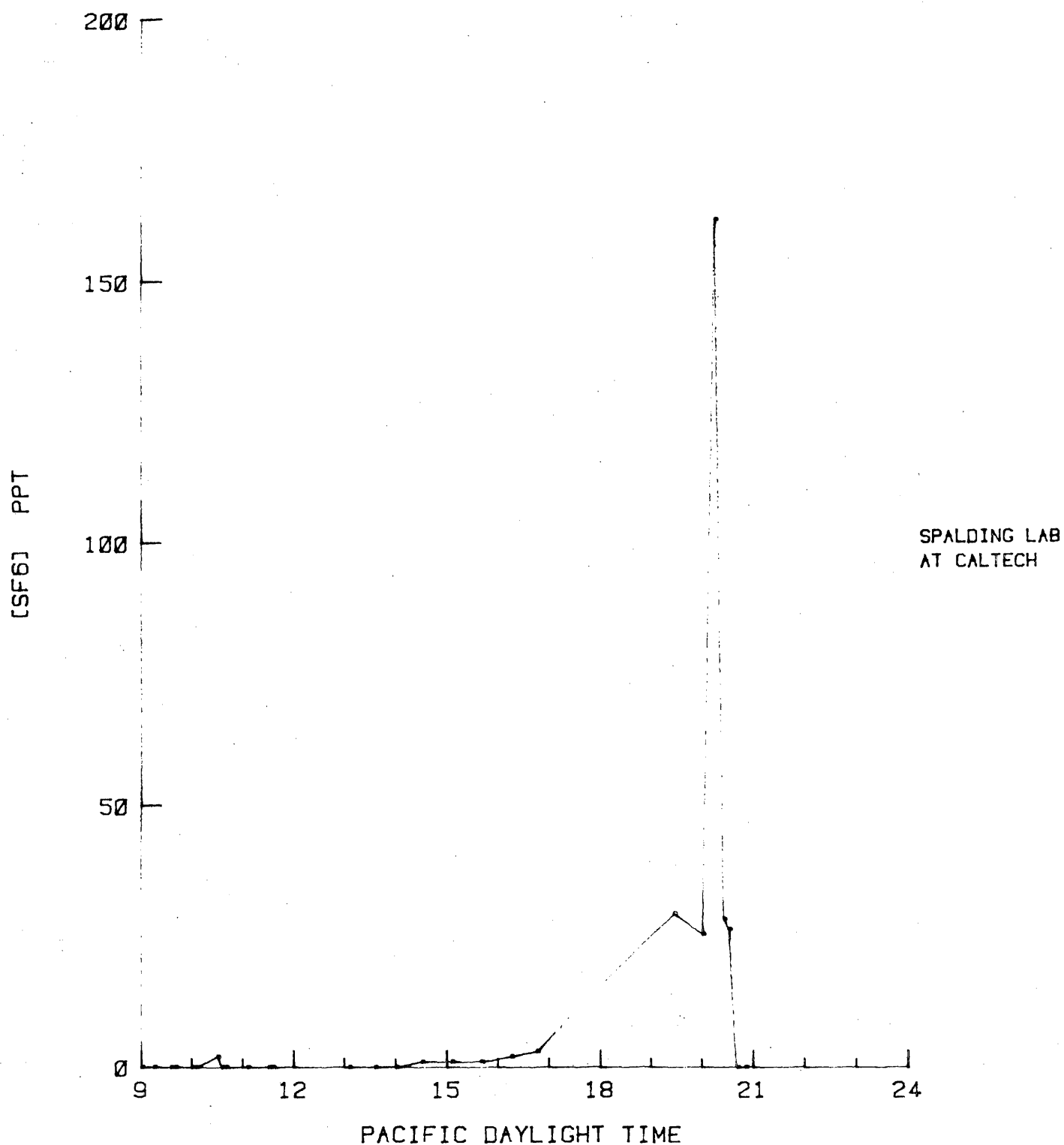
Grab Samples

for

Test 6

Conducted Starting September 13, 1977

LSB-6 PASADENA GRAB SAMPLES 9/13/77



RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM
GOLDEN WEST-DUE SOUTH OF POINT DUME, DUE WEST OF EL SEGUNDO
RELEASE TIME: 0900-1400 PDT, 9/13/77

PASADENA GRAB SAMPLES LSB-6

RELEASE: 117 LBS SF6/HR (14.8 GR/SEC) OFF SHORE FROM GOLDEN WEST
RELEASE TIME: 0900-1400 PDT, 9/13/77

SAMPLING LOCATION: SPALDING LAB AT CALTECH (PASADENA)
DURATION OF SAMPLING: 0900-2050 PDT, 9/13/77

* DENOTES MISSING DATA

<u>TIME</u>	<u>PDT</u>	<u>[SF6]</u>	<u>PPT</u>	<u>TIME</u>	<u>PDT</u>	<u>[SF6]</u>	<u>PPT</u>
0900		0		2031		26	
0915		0		2040		0	
0935		0		2050		0	
0940		0					
1000		0					
1005		0					
1030		2					
1035		0					
1040		0					
1105		0					
1130		0					
1133		0					
1135		0					
1305		0					
1335		0					
1400		0					
1430		1					
1505		1					
1540		1					
1615		2					
1645		3					
1926		29					
2000		25					
2015		162					
2025		28					

Appendix G1

Hourly Averaged Tracer Data for Fixed Sites

for

Test No. 7

Conducted Starting July 13, 1978

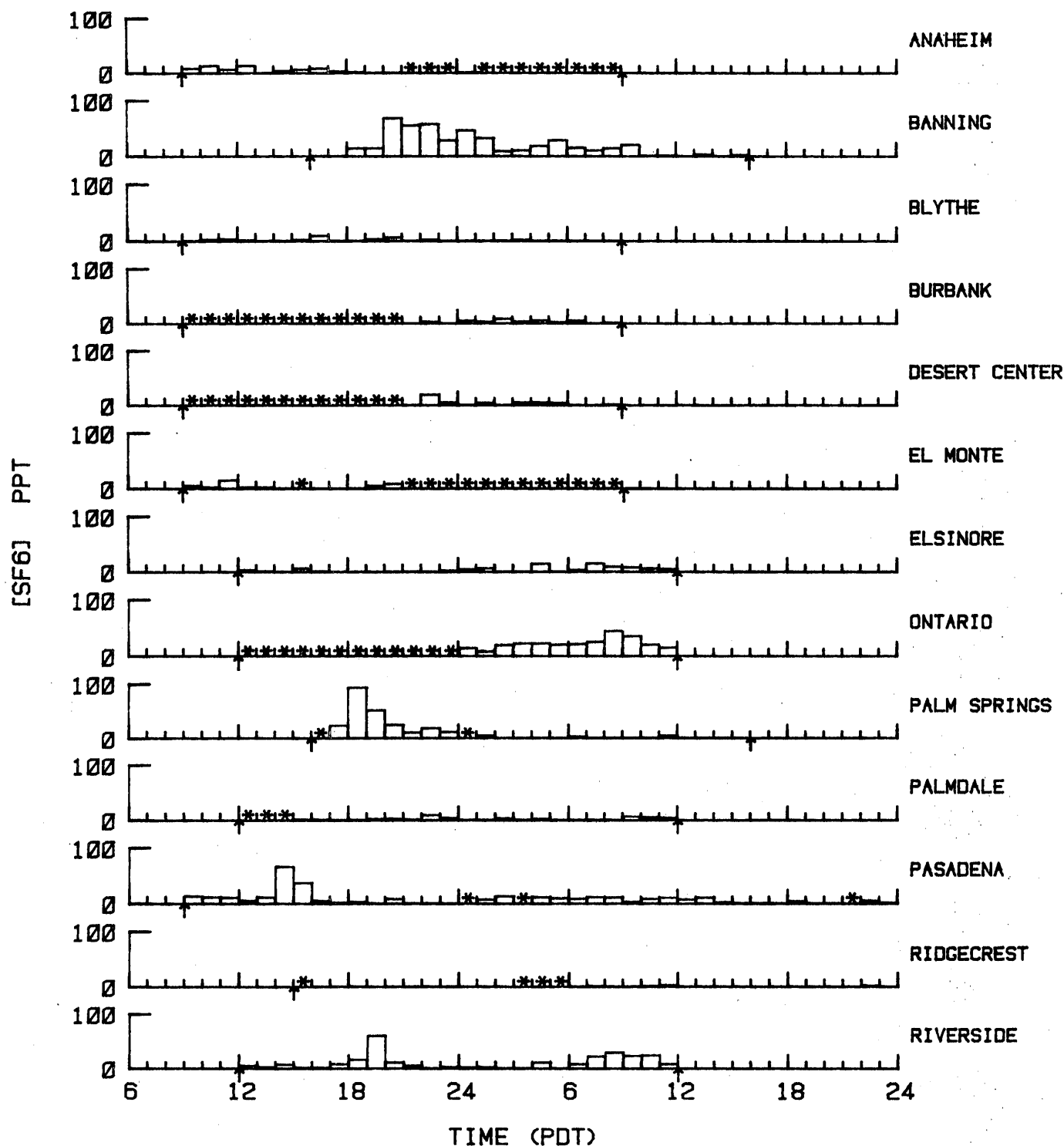
Land-Sea Breeze Field Study Test 7

July 13-14, 1978

Fixed Sites

	<u>Location</u>	<u>Abbreviation</u>
1.	Anahiem	ANAH
2.	Banning	BANN
3.	Blythe	BLYT
4.	Burbank	BURB
5.	Desert Center	D CE
6.	El Monte	EL M
7.	Elsinore	ELSI
8.	Ontario	ONTA
9.	Palm Springs	P SP
10.	Palmdale	PALM
11.	Pasadena	PASA
12.	Ridgecrest	RIDG
13.	Riverside	RIVE

LSB-7 FIXED SITES 7/13-14/78



RELEASE: 98 LBS SF6/HR (12.4 GR/SEC) AT EL SEGUNDO
 RELEASE TIME: 0900-1500 PDT, 7/13/78

GROUND LEVEL RELEASE NEAR EL SEGUNDO POWER PLANT

* INDICATES MISSING DATA
 ARROWS INDICATE BOUNDS OF SAMPLING PERIOD

LAND-SEA BREEZE FIELD STUDY TEST 7

JULY 13, 1978

SF6 CONCENTRATION IN PPT

SITE	HOUR (PDT)																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1 ANAH										8	13	6	13	0	4	6	8	3	1	0	0			
2 BANN																	0	0	14	14	68	55	57	28
3 BLYT										0	2	3	1	0	0	2	9	0	0	3	6	0	2	0
4 BURB																						0	3	0
5 D CE																						0	19	5
6 EL M										5	2	15	2	2	0		0	0	0	5	8			
7 ELSI													3	1	0	6	1	0	0	0	0	0	0	2
8 ONTA																								
9 P SP																		23	93	51	24	10	18	11
10 PALM															1	1	0	0	2	2	1	9	4	
11 PASA										13	11	10	5	11	66	37	5	1	3	0	8	0	0	0
12 RIDG																	0	0	0	0	0	0	0	0
13 RIVE													5	2	7	1	1	8	16	60	11	5	0	3

LAND-SEA BREEZE FIELD STUDY TEST 7

JULY 14, 1978

SF6 CONCENTRATION IN PPT

	SITE	HOUR (PDT)																							
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	ANAH	0																							
2	BANN	46	22	8	10	18	28	15	10	14	20	1	1	0	3	0	2								
3	BLYT	0	0	0	2	0	0	0	0	0															
4	BURB	5	3	8	3	5	2	5	0	1															
5	D CE	0	4	0	5	5	4	0	0	1															
6	EL M																								
7	ELSI	4	6	0	0	14	0	3	15	9	8	6	5												
8	ONTA	14	8	19	22	22	20	21	25	44	35	20	15												
9	P SP		4	0	0	0	0	2	0	0	0	0	4	0	0	0	0								
10	PALM	0	0	3	0	2	0	0	0	0	6	5	4												
11	PASA		7	13		11	9	8	11	10	3	8	10	7	10	2	0	0	0	4	0	0		5	1
12	RIDG	0	0	0				0	1	0	0	1	3	0	0	0	0	0	0	0	0	0	0	2	0
13	RIVE	2	3	0	0	11	0	8	22	29	23	24	8												

