

SEISMICITY OF THE LIVERMORE VALLEY
IN RELATION TO THE
GENERAL ELECTRIC VALLECITOS PLANT

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March 1980

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SEISMICITY OF THE LIVERMORE VALLEY IN RELATION TO THE
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1. QUESTIONS

This seismological report is in response to specific questions on seismicity raised for consideration by the G.E.T.R. Subcommittee.

These questions are:

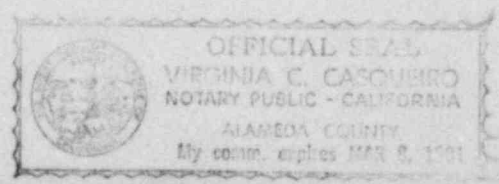
1. Regional seismicity

- a. Distribution of epicenters--historic and recent instrumental results,
- b. Focal depths,
- c. Accuracy of current seismic networks in the region as it relates to a and b,
- d. Focal mechanisms as related to the regional tectonics,
- e. Relationship of hypocentral distributions in known or postulated faulting, particularly the Livermore, Las Positas and Verona faults.

2. Site seismicity

- a. Are there seismographs operating on or near the site?
- b. If so, what are the results? Specifically, are there microearthquakes occurring on the site? If so, where?

It should be remarked that the letter of request stated that, while the list of questions is long, many of them can be addressed

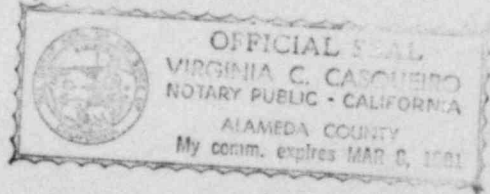


briefly. With this in mind, this report directs itself mainly at the basic seismological data and no attempt is made to analyze the seismicity in terms of future strong ground motion.

2. PRIMARY DATA SOURCES

A complete list of catalogued earthquakes for the area was constructed from three primary sources. The first is the comprehensive historical catalog published by Townley and Allen for northern California. This catalog is now on magnetic tape and a retrieval program was used to list all local earthquakes in the catalog from 1769 through 1910 within approximately 16 km of the GE plant. The second source is the catalog of earthquakes located instrumentally by seismologists at the Berkeley Seismographic Station (Bolt and Miller, 1976). Hypocenters were taken from this catalog for the period 1910 to 1969. The catalog is now supplemented by Bulletins of the Seismographic Station up to 1979. However, commencing in 1969, hypocenters of local seismicity down to microseismic levels were determined by the U.S. Geological Survey using a denser net of stations in central California. Through the courtesy of the USGS, a complete listing of these epicenters was retrieved from a magnetic tape file. Comparison showed that all epicenters in the area common to both the Berkeley catalog and the USGS catalog had close hypocentral values (about 2 km maximum). For the sake of this study, USGS solutions were adopted from 1969 through 1979.

All epicenter coordinates from the three primary data sources were merged on one magnetic tape and the total list, believed to be

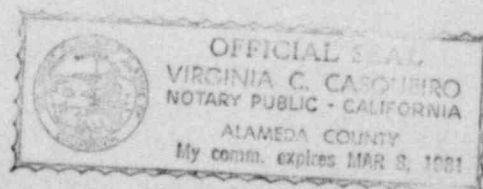


essentially complete so far as tabulated sources in this area are concerned, is given in Appendix A. There are, in all, 965 epicenters listed. The quality of the data obviously varies enormously (see Section 5). For obvious reasons, the list progressively includes earthquakes of smaller and smaller magnitude. It is only since 1969 that microearthquakes with magnitudes down to about 0.3 are included in the catalog.

For convenience, the epicenters listed in Appendix A have been plotted in Figure 1. It also shows the approximate locations of the main faults in the area. There is a difficulty in relation to the consistency of the fault mapping. Geological maps now available vary in the detail of their mapping throughout the area shown in Figure 1. This is largely because localized special studies have been made in recent years in connection with, for example, the Sandia Laboratories at Livermore, the Lawrence Livermore Laboratories, the GE plant and, more recently, the Greenville earthquake sequence of January, 1980. The result of this recent field work, not yet published or evaluated thoroughly, is that variations in interpretation and interpolations exist. The source of the faults shown on Figure 1 is a map made available by Earth Sciences Associates.

3. DISTRIBUTION OF EPICENTERS (QUESTION 1.a)

The epicenters plotted on Figure 1 indicate that small earthquakes down to microseismic magnitudes occur from time to time over most of the region in question, many of them unrelated to mapped faults. It would be premature, however, to make a firm conclusion on such corre-

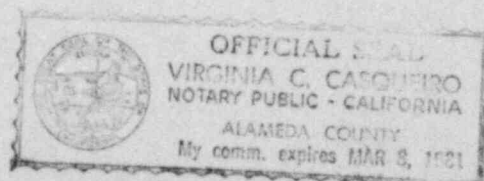


lations. There is little question (see Section 5) that many of the plotted epicenters have possible errors of over 5 km and, also, not all small faults in the region are at present mapped.

Close study of Figure 1 indicates, however, that there are clusters of earthquakes which can be related to mapped tectonic features. First, there is a rather dense concentration of earthquakes along the Hayward fault (the most westerly fault shown in Figure 1). There is also a clustering of earthquakes to the east of the Calaveras fault at the southwest portion of the map. A further concentration of epicenters occurs at the east boundary of the map in the vicinity of Corral Hollow fault. There is also a cluster of earthquakes on the northwest edge of Figure 1 which is associated with a microearthquake sequence in the vicinity of the Tasajara Hills in 1977.

It should be pointed out here also that the map does not include epicenters from the very recent earthquake sequence along the Greenville fault (Bolt, McEvilly and Uhrhammer, 1980). This sequence had two principal shocks, one on January 24 and one on January 27, 1980, of magnitudes 5.5 and 5.8, respectively. The sequence consisted of hundreds of small earthquakes along the Greenville fault which showed surface rupture, predominately in a right-lateral sense, of a few cm offset (see fault plane solutions in Section 4).

In this region the major Calaveras fault zone (Figure 1) is not associated with many earthquake epicenters in the period of study except at the southern end. This lack of micro-seismicity earthquakes on sections of the Calaveras, Hayward or San Andreas faults in central



California is not uncommon but the cause of such variability in micro-earthquake activity is, at the present time, unknown.

Let us now consider the plot of epicenters within about 6 km from the GE site (GETR in Figure 1) and any relationship with the Verona fault. There are 12 epicenters in the vicinity above magnitude 2 (see Numbers keyed on Figure 1).

Number 1. A sequence of 5 earthquakes occurring on March 28 and 29, 1943. The largest was assigned a magnitude of 4.2; one had a magnitude of 2.8 and three had no assigned magnitude.

Number 2. A magnitude 2.5 earthquake on June 10, 1943.

Number 3. A magnitude 3.6 earthquake on March 31, 1943.

Number 4. A magnitude 3.7 earthquake on November 13, 1945.

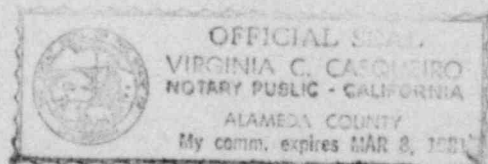
Number 5. A magnitude 2.5 earthquake on June 20, 1957.

Number 6. A magnitude 3.0 earthquake on July 12, 1932.

Number 7. A magnitude 2.1 earthquake on September 10, 1970.

Number 8. A magnitude 2.0 earthquake on August 6, 1979.

Association of these earthquakes with faults such as the Verona and Calaveras is speculative, given the uncertainties of epicenter and fault location. Earthquakes Numbers 1-6 were located using few stations with an azimuthal coverage of only about 100°. In most cases, the readings came from only the three stations of the Berkeley network, Berkeley, Mt. Hamilton and Palo Alto. The exceptions were the magnitude 4.2 earthquake in 1943 and the magnitude 2.5 earthquake in 1957. The 1943 event also used readings from the Fresno station,



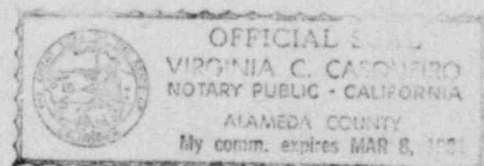
which is at a distance of over 200 km to the southeast. The 1957 earthquake used also a reading from the San Francisco station.

Given the readings in the Berkeley Bulletin for these earthquakes, relocations were made with a modern computer program and these produced a change of only a few km in the epicenters. An exception was the epicenter for the 1957 earthquake which did not formally converge for the crustal model adopted, indicating a considerable range of uncertainty in the solution. Also, event Number 2 above was found to shift significantly towards the northwest.

Events Numbers 7 and 8 were located by the USGS using 17 and 25 stations, respectively. However, the small energy of these two earthquakes reduced significantly the first motion readings (see Section 6).

4. FOCAL DEPTHS (QUESTION 1.b)

The dense seismographic networks of the last decade in the region around the site (Hayward, Calaveras fault zones, etc.) have indicated that local earthquake foci are situated almost without exception in the upper 16 km of the Earth's crust. Indeed, as can be seen from the focal depths published in the Table in the Appendix (see particularly 1969-1979 for highest precision), the majority of focal depths range between 8 km and 3 km, with a few as shallow as 1 km. Of particular interest is the estimate of focal depth of the largest earthquake in the last ten years within 5 km of the GE plant, i.e. Number 8 in Section 3. This was formally given a focal depth of 5.7 km. It might also be remarked that the two principal earthquakes of the 1980 Greenville sequence,

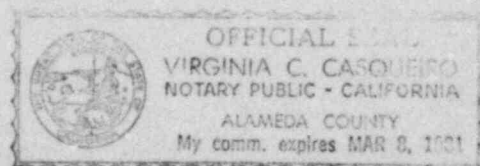


which were located with great care, had focal depths of 12 and 15 km, respectively.

5. ACCURACY OF ESTIMATIONS (QUESTION 1.c)

Some remarks on the solutions given in the Appendix have already been made. It is unnecessary to stress that the epicenters taken from the historical Townley-Allen catalog might be in error by well over 10 km, because they are based largely on felt reports (and thus upon the density of population at the time).

From 1910 until about 1969, the seismographs at Berkeley (44 km from the site) and Mt. Hamilton (36 km from the site) were the nearest modern stations with good timing. Therefore, locations of local earthquakes depended largely on readings of P and S waves from these two stations, supplemented by readings from other stations further to the west and sometimes Fresno to the southeast. It is rather difficult to place a precision on the solutions during this period. In order to assess the uncertainty, one of the Greenville sequence (18^h57^m, February 21, 1980) was relocated, using only the stations Mt. Hamilton, Berkeley and Pilarcitas Creek on the San Francisco Peninsula. These stations are meant to replicate the available stations before the telemetry networks. The relocation gave a solution that converged (when the depth was constrained to 5.0 km) but was about 10 km to the northwest of the precise location obtained using the present local network. There is thus a suggestion that uncertainties in locating earthquakes up to about 1969 could have been as large as 10 km (although many may have less error than this rather high figure. A consequence



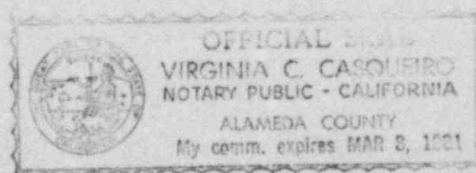
is that a particular epicenter in this time interval might, in fact, be associated with a different fault from the one shown adjacent in Figure 1.

6. FOCAL MECHANISMS (QUESTION 1.d)

It will be obvious from the small magnitudes of recent earthquakes listed in the Appendix in the vicinity of the GE plant that it is not possible to make meaningful fault plane solutions in most cases from polarity readings from the few local stations available. Indeed, only 13 stations are available, even in the best cases, for local events in 1979. Nevertheless, an attempt was made to determine a likely mechanism for the most promising of the earthquakes nearest to the Verona fault in Figure 1. This is the earthquake of August 6, 1979 (Number 8 in Section 3 and Figure 1).

The polarity of the first P motions at the 13 available telemetry stations was consistent with right-lateral motion along a fault striking approximately north but with uncertainty of up to 10° . One of the stations was inconsistent with pure dip-slip faulting.

Five other fault plane solutions are available for the general area and these are shown in Figure 2. The Figure is from a special report prepared for Sandia Laboratories, Livermore, California and prepared by URS/John Blume and Associates, Engineers, in September, 1978. (Earthquakes marked A, C and D are also indicated in Figure 1; event B lies off Figure 1.) The data used were from the Berkeley and USGS seismographic files. Only for the earthquake marked A, about 15 km

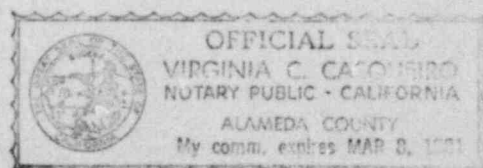


from the GE site is there a suggestion of a possible general association with the northwest-trending faults of which the Verona fault may be a member. This earthquake (6/28/65) has a magnitude of 3.6. Eleven polarity P readings were available. Reasonably well distributed in azimuth, they indicate a right-lateral strike-slip event. The fault plane solutions for earthquakes marked C and D are, again, predominately right-lateral strike-slip, in agreement with the general tectonic trends and strain field of this area. These earthquakes (8/31/76, magnitude = 3.3, and 6/21/77, magnitude = 4.6) are members of the cluster of seismicity near the Corral Hollow fault (Figure 1).

Three other solutions are available for earthquakes associated with the Greenville fault. The earthquake marked B (Figure 2, 12/29/69, magnitude = 3.8) had only seven observed polarities which were also consistent with right-lateral strike-slip motion. Fault plane solutions for the two principal shocks of the January, 1980 Greenville sequence are given as Figures 3 and 4. It will be seen that, for these recent earthquakes, sufficient observations of polarity are available to make the fault plane solutions relatively reliable. An important conclusion is that the right-lateral motion shown predominately in these earthquakes is in agreement with the offset seen along the Greenville fault at the surface.

7. RELATIONS BETWEEN HYPOCENTERS AND FAULTS (QUESTION 1.e)

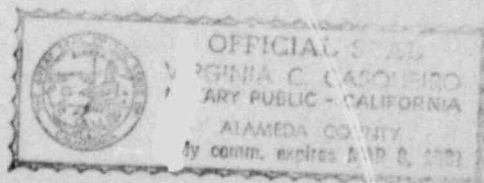
Some comments on this question have already been made in the preceding sections. Apart from the concentration along the Hayward fault shown in Figure 1 and the unequivocal concentration along the Greenville



fault in the January, 1980 sequence when surface rupture occurred (not shown in Figure 1), causative and mechanical connections between the earthquakes in Appendix A and known faults in the area are not available. Even the Calaveras fault, which is a major through-going fault (like the Hayward fault) does not have seismicity closely associated with it in this region during the last 100 years.

The Hayward fault is known to have been the source of the large earthquakes of June 10, 1836 and October 21, 1868. In the first earthquake, surface rupture was reported between Mission San Jose and San Pablo; in the 1868 earthquake, surface rupture was reported between Warm Springs and San Leandro. It is not clear whether destructive earthquakes have involved motion of the Calaveras fault in historic times. It has been suggested that the earthquakes of July 3, 1861 arose from movement on the Calaveras fault with high intensities of shaking reported from the San Ramon valley. There are some reports of ground surface displacement which may or may not have been associated with the Calaveras fault. Reports, however, are not at all clear on these matters. Another even less-well supported suggestion of association with the Calaveras fault is the earthquake of March 30, 1898.

Specific mention was made in the questions of the relation between hypocenters on the known Livermore, Las Positas and Verona faults. Correlations can be attempted from the plot shown in Figure 1 but there appears to be considerable doubt concerning any concentrations of earthquakes along any one of these faults. There have been reports of some slight cracking corresponding to the mapped position of the



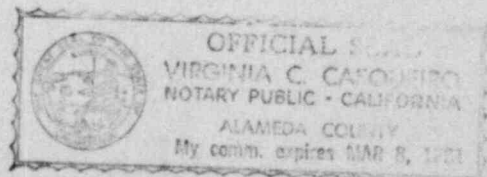
Las Positas fault following the Greenville earthquake sequence of January, 1980 but there is no information available which would locate aftershocks of this sequence along the Las Positas fault.

It is possible to speculate that the group of earthquakes to the northwest of the GE plant may be associated with slips along faults parallel to the Verona fault as mapped in Figure 1. It is clear, however, from Figure 1 that in the vicinity of the General Electric plant no earthquakes above magnitude 3 have occurred in the last decade and none above magnitude 4 for the last 37 years.

8. SEISMICITY OF THE SITE (QUESTION 2)

There are no seismographs operating in the General Electric facility. The nearest seismographs that are now operational in the area are 3 telemetry stations of the USGS and LLL networks. These are CPL (USGS) at a distance of 7.5 km from the site; CLO4 (LLL) at a distance of 4 km; and CLO5 (LLL) at a distance of 3 km.

It may be appropriate here to comment on the value of running a microearthquake net at the site itself. Because certain assumptions have been made that the Verona fault is active and that it could be the locus of a large (postulated magnitude 6) earthquake, then the issue of activity of the fault appears not to arise. The detection of microearthquakes would not alter this assumption. The question of the mechanism of fault displacements on the Verona fault would similarly not be affected by a small network of stations on the site. These would not give sufficient coverage unless a regional network were employed



to enable meaningful fault plane solutions to be made. The seismicity level indicated in Figure 1 entails that such a network would have to be operated for a considerable time before there would be any hope of obtaining definite fault plane solutions.

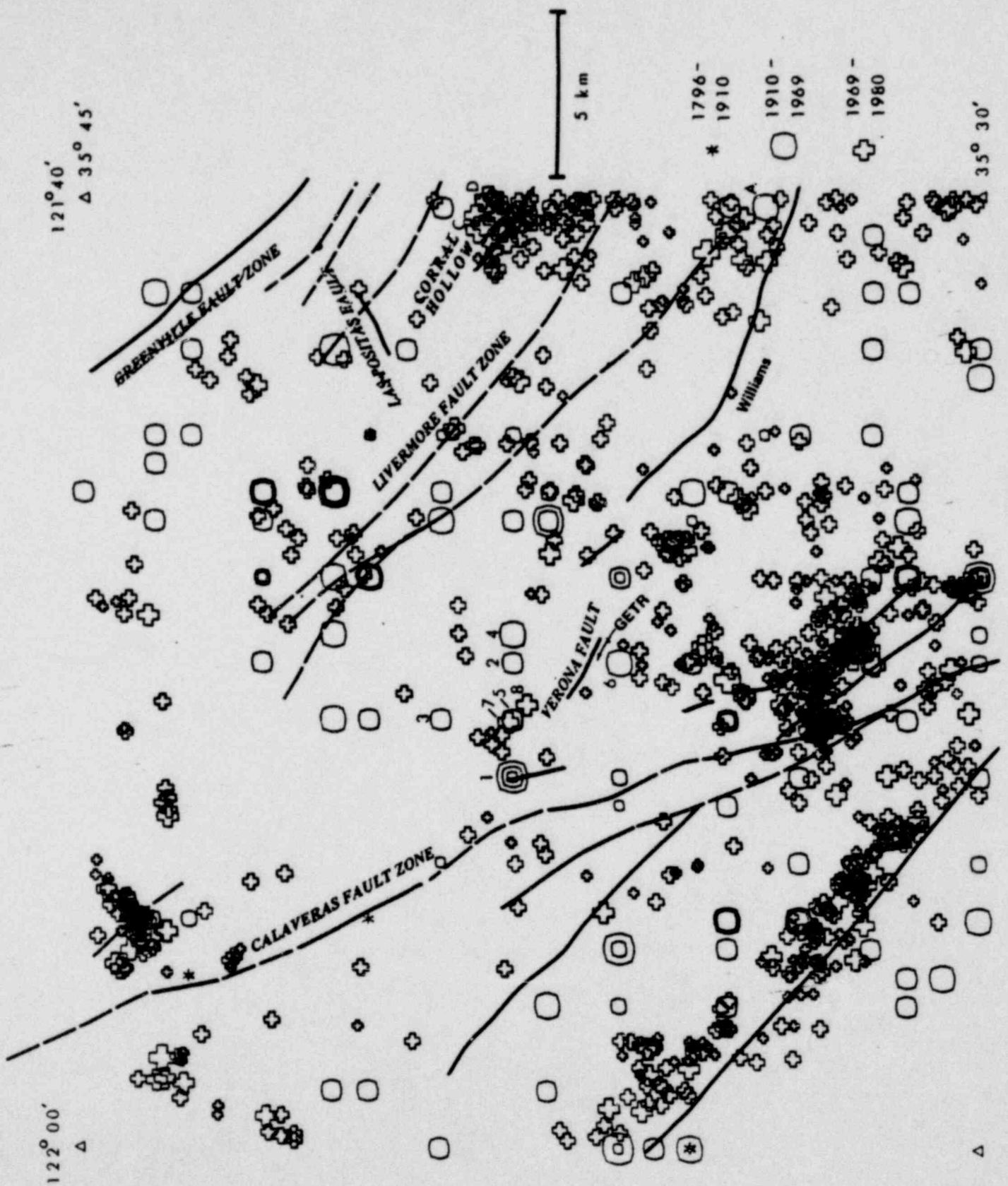
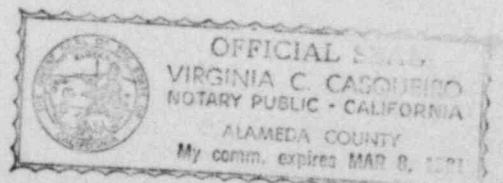


FIGURE 1. EPICENTER PLOT



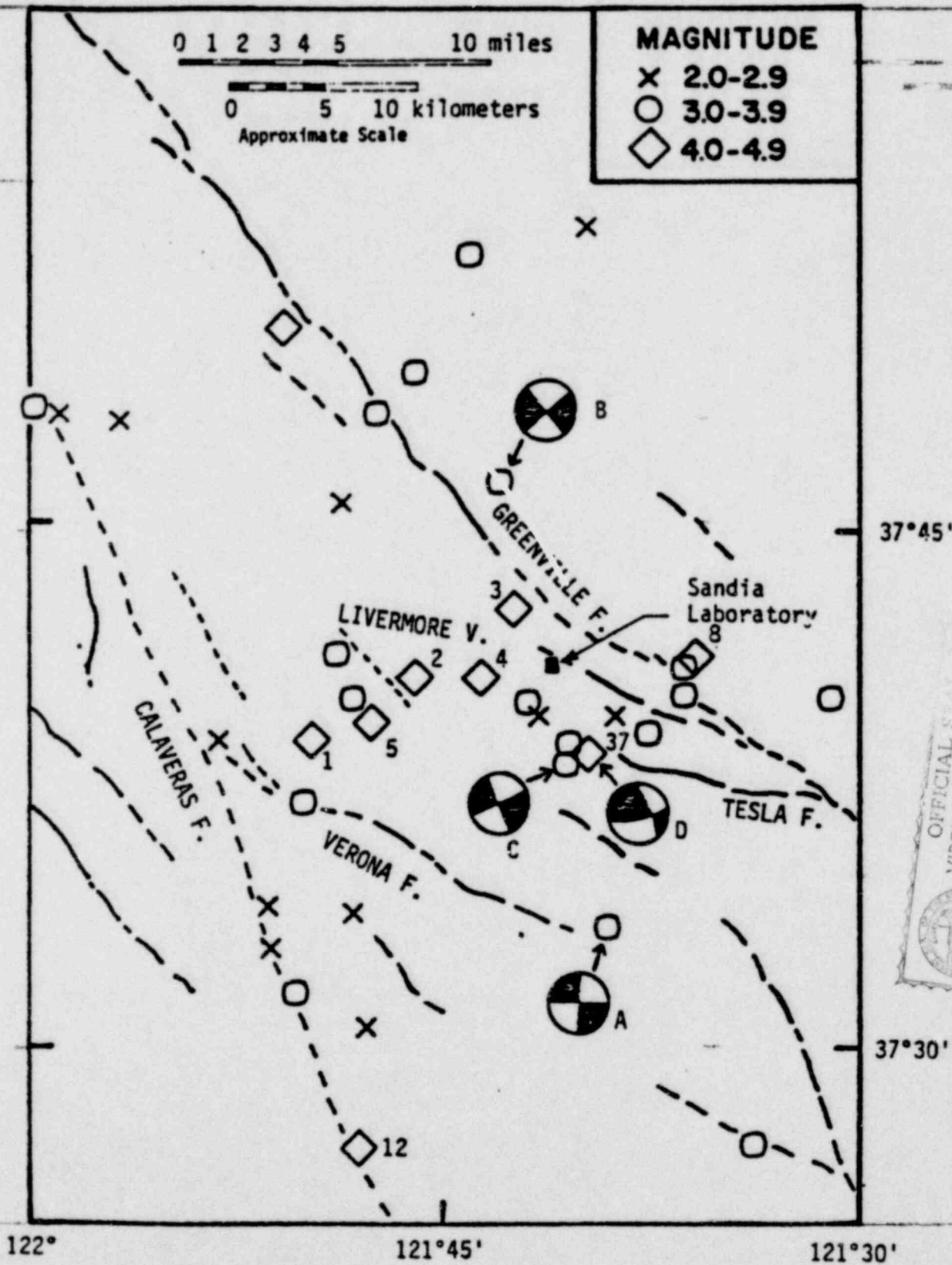


FIGURE 2. SEISMICITY OF THE LIVERMORE VALLEY AREA, 1943 TO 1977, SHOWING FAULT PLANE SOLUTIONS (URS/JOHN BLUME AND ASSOCIATES)

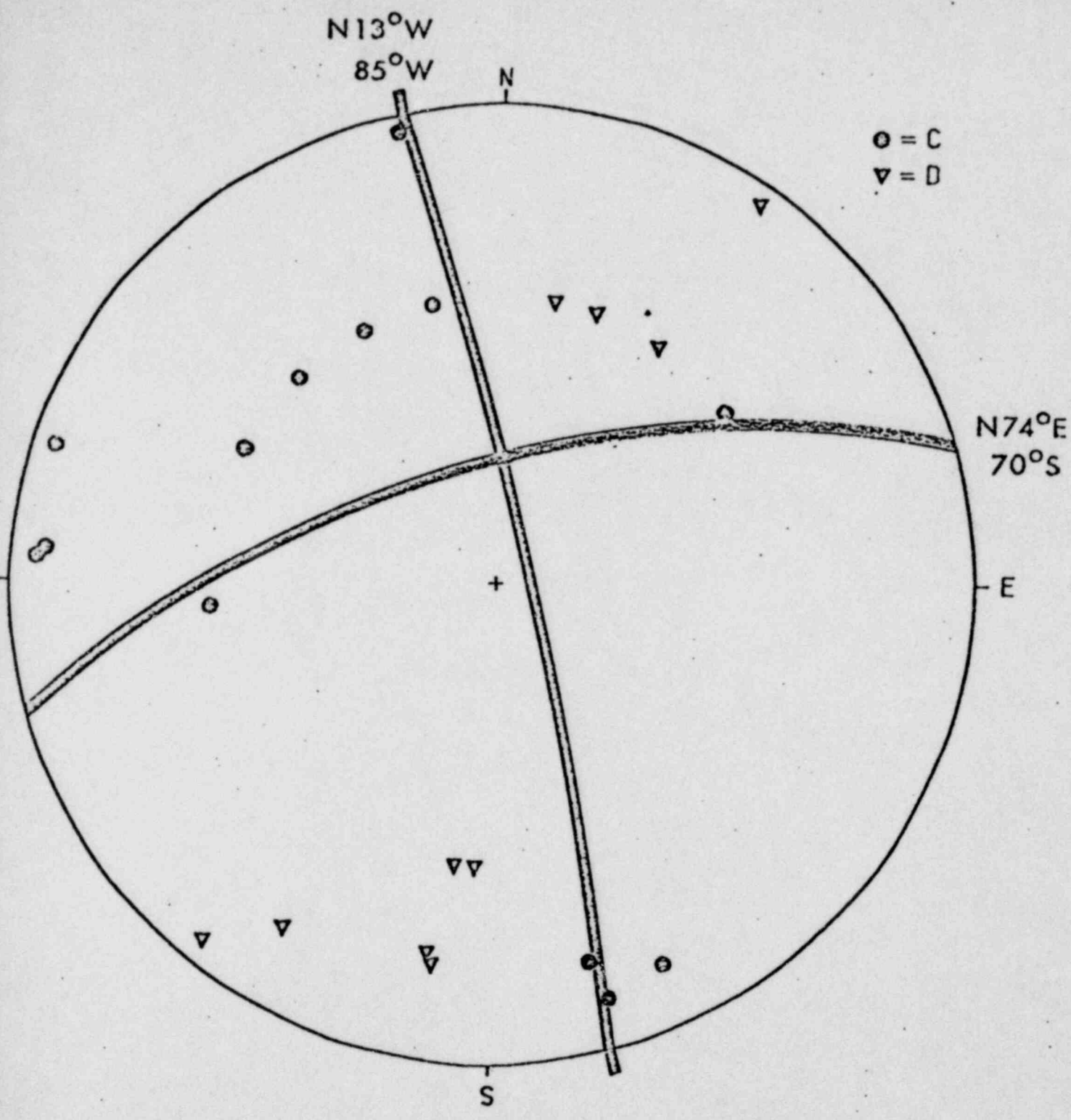


FIG. 3 EARTHQUAKE 24 JAN 1980 UPPER HEMISPHERE

OFFICIAL SEAL
 VIRGINIA C. CASQUERO
 NOTARY PUBLIC - CALIFORNIA
 ALAMEDA COUNTY
 My comm. expires MAR 8, 1981

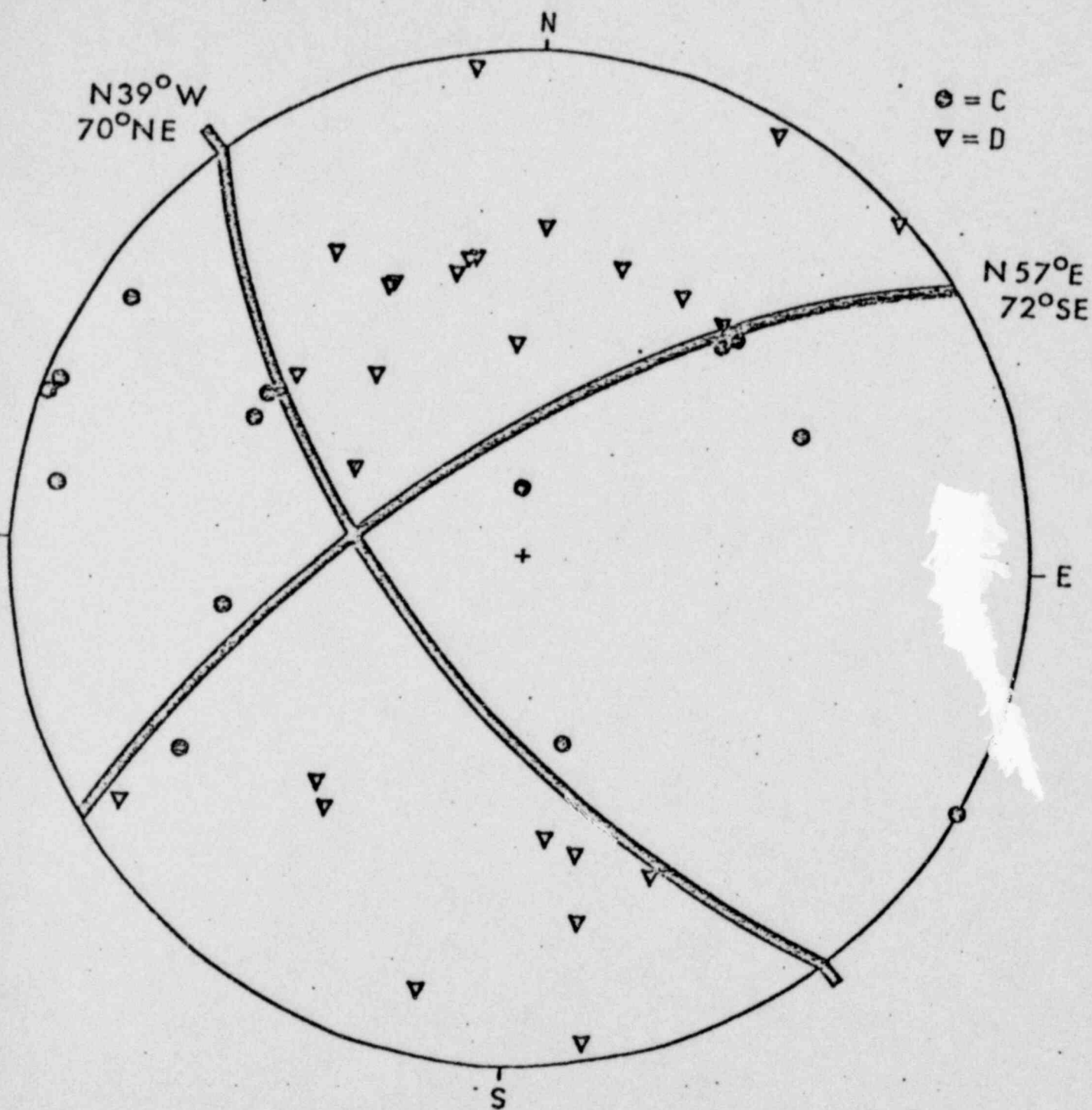
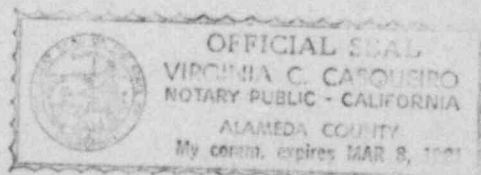
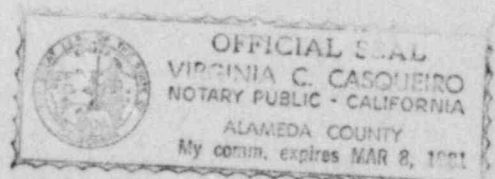


FIG. 4 EARTHQUAKE 27 JAN 1980 UPPER HEMISPHERE



Appendix A

List of Catalogued Earthquakes



RIGHTHAND PLOT BOUNDARY IS 121 DEG 40.0 MIN W..LEFT BOUNDARY IS 122 DEG 0. MIN W.
 TOP BOUNDARY IS 37 DEG 45.0 MIN N..BOTTOM BOUNDARY IS 37 DEG 30.0 MIN N.
 LATITUDE OF THE PLOT CENTER IS 37 DEG 37.5 MIN N
 GRID SPACING. LATITUDE IN INCREMENTS OF 0 DEG 5.0 MIN, LONGITUDE 0 DEG 5.0 MIN.

THE SCALE OF THE PLOT IS 35.00 INCHES PER DEGREE OF LATITUDE.

STATION	LATITUDE DEG-MIN	LONGITUDE DEG-MIN	ELEVATION FEET
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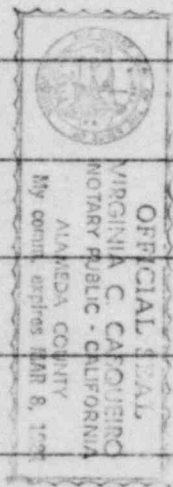
A	37 30.0	121 40.0	-0.
B	37 45.0	121 40.0	-0.
C	37 45.0	122 0.	-0.
D	37 30.0	122 0.	-0.

SPECS ARRAY FOR PLOT

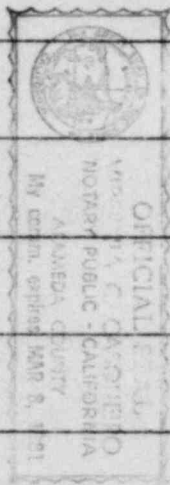
2.000	.200	121.767	122.000	37.750
37.500	9.240	8.750	4.000	3.000
1.000	99.000	1.000	1.000	1.000

DATE	TIME	LATITUDE	LONGITUDE	DEPTH	MAG
70461- 1861	011-0.	37 43.2	121 56.4	-0.	0.
20269	6-0-0.	37 40.2	121 45.0	-0.	0.
12782	-0-0-0.	37 34.8	122 0.	-0.	0.
32183	9-0-0.	37 34.8	122 0.	-0.	0.
72385	3-0-0.	37 34.8	122 0.	-0.	0.
111292	956-0.	37 34.8	122 0.	-0.	0.
12997	11 3-0.	37 34.8	122 0.	-0.	0.
71597	619-0.	37 34.8	122 0.	-0.	0.
101797	2330-0.	37 34.8	122 0.	-0.	0.
122697	15 6-0.	37 34.8	122 0.	-0.	0.
111498	2110-0.	37 34.8	122 0.	-0.	0.
111498	2157-0.	37 34.8	122 0.	-0.	0.
70699	2010-0.	37 40.2	121 55.2	-0.	0.
11400- 1900	1927-0.	37 34.8	122 0.	-0.	0.
52000	13 5-0.	37 34.8	122 0.	-0.	0.

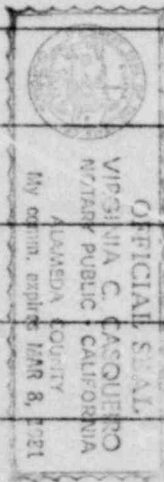
12101	7 0-0.	37 34.8	122 0.	-0.	0.
82701	1023-0.	37 34.8	122 0.	-0.	0.
61103	1312-0.	37 40.2	121 45.0	-0.	0.
51904	930-0.	37 34.8	122 0.	-0.	0.
42805	825-0.	37 34.8	122 0.	-0.	0.
52605	1435-0.	37 34.8	122 0.	-0.	0.
41106	854-0.	37 34.8	122 0.	-0.	0.
60606	755-0.	37 34.8	122 0.	-0.	0.
61606	545-0.	37 40.2	121 45.0	-0.	0.
20407	355-0.	37 40.2	121 45.0	-0.	0.
21307	1950-0.	37 40.2	121 45.0	-0.	0.
21407	245-0.	37 40.2	121 45.0	-0.	0.
21407	8-0-0.	37 40.2	121 45.0	-0.	0.
102907	2125-0.	37 40.2	121 45.0	-0.	0.
22209	2030-0.	37 40.2	121 45.0	-0.	0.
19102709	245-0.	37 40.2	121 45.0	-0.	0.
100719	735-0.	37 40.2	121 45.0	-0.	0.
140707	1638-0.	37 40.2	121 45.0	-0.	0.
160114	18 5-0.	37 40.2	121 45.0	-0.	0.
300513	1018-0.	37 40.2	121 45.0	-0.	0.
320630	023-0.	37 34.8	122 0.	-0.	3.0
320712	43341.0	37 36.0	121 49.8	-0.	3.0
330516	114526.	37 36.0	122 0.	-0.	4.5
330629	84842.	37 36.0	122 0.	-0.	0.
350630	1525-0.	37 36.0	122 0.	-0.	0.
360924	3 9-0.	37 36.0	121 52.8	-0.	0.
381201	1617-0.	37 30.0	121 48.0	-0.	4.5
410331	20 1 0.0	37 36.0	121 48.0	-0.	0.
410924	1350-0.	37 42.0	121 48.0	-0.	0.
411027	659-0.	37 34.8	121 46.8	-0.	0.
420807	2 226.	37 34.2	121 40.2	-0.	2.5
430328	55245.	37 37.8	121 52.2	-0.	2.8
430329	1133-0.	37 37.8	121 52.2	-0.	0.
430329	114555.	37 37.8	121 52.2	-0.	4.2
430329	1155-0.	37 37.8	121 52.2	-0.	0.
430329	12 4-0.	37 37.8	121 52.2	-0.	0.
430331	7 6 9.	37 40.8	121 51.0	-0.	3.6
430407	015 1.	37 39.0	121 46.8	-0.	3.4
430408	013 4.	37 40.8	121 48.0	-0.	3.0
430411	21629.	37 42.0	121 46.8	-0.	2.5
430412	212042.	37 40.8	121 46.2	-0.	2.9
430415	122811.	37 40.8	121 46.2	-0.	3.2
430415	1323-0.	37 39.0	121 45.0	-0.	0.
430415	1523 4.	37 40.8	121 46.2	-0.	4.0
430415	1531 2.	37 40.8	121 46.2	-0.	4.1
430415	1532-0.	37 39.0	121 45.0	-0.	0.
430415	1533-0.	37 39.0	121 45.0	-0.	0.
430415	1538-0.	37 39.0	121 45.0	-0.	0.
430415	1550-0.	37 39.0	121 45.0	-0.	0.
430415	16 3-0.	37 39.0	121 45.0	-0.	0.
430415	18 0-0.	37 39.0	121 45.0	-0.	0.
430416	1 8-0.	37 39.0	121 45.0	-0.	0.
430420	2 019.	37 39.0	121 51.0	-0.	2.2
430421	171253.	37 33.0	121 45.0	-0.	0.
430421	2329 0.	37 33.6	121 45.0	-0.	0.
430421	233544.	37 40.8	121 43.2	-0.	4.2



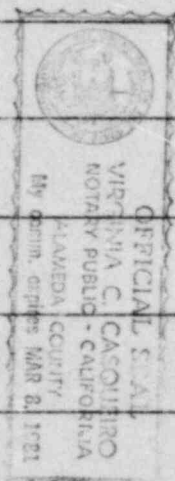
430421	235846.	37 33.6	121 45.0	-0.	0.
430426	1154 0.	37 37.2	121 46.8	-0.	4.1
430426	12 258.	37 33.6	121 45.0	-0.	0.
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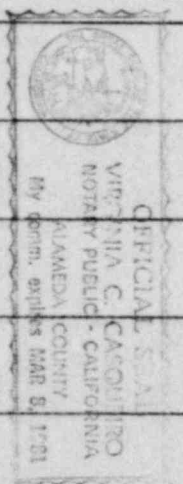
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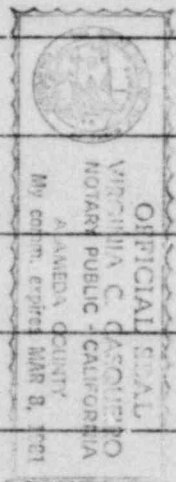
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690618	2117	11.5	37	32.4	121	48.0	2.9	.7	
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690728	1912	53.5	37	37.5	121	40.5	7.0	2.0	
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691218	257	56.2	37	32.4	121	51.0	5.0	.7	
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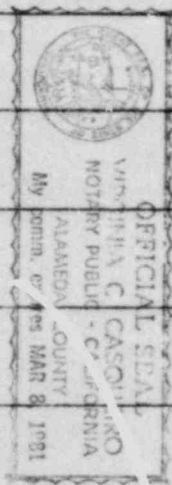
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700106	1200	29.9	37	32.1	121	49.7	4.7	.5
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700106	1945	24.7	37	32.3	121	49.6	3.6	2.1
700107	1514	16.2	37	31.9	121	49.5	4.1	.4
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700116	617	57.4	37	32.4	121	51.2	5.0	.2
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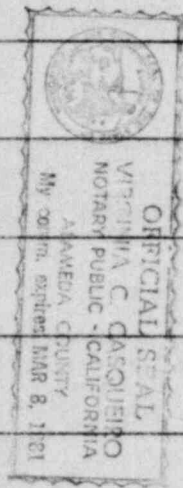
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700726	1053	59.1	37	32.6	121	57.5	2.0	1.0
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700803	129	34.8	37	32.4	121	52.6	1.0	2.1
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700831	326	21.9	37	32.8	121	51.2	5.0	1.4
700903	326	29.1	37	36.1	121	40.0	8.3	1.0
700903	2314	57.8	37	32.2	121	41.3	2.5	1.5
700910	724	24.4	37	37.9	121	51.0	5.1	2.1
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700929	238	29.0	37	42.9	121	43.8	5.0	1.0
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701012	1532	48.8	37	36.5	121	40.0	6.8	1.5
701125	54	56.9	37	44.6	121	54.4	6.6	.9
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701218	1952	42.2	37	37.5	121	40.0	7.3	1.6
701219	1952	58.8	37	37.2	121	40.6	7.7	1.5
701219	351	2.9	37	37.7	121	40.5	6.1	1.4
701226	1523	36.4	37	37.7	121	40.1	7.4	1.3
710101	156	21.5	37	36.6	121	40.0	7.5	.9
710122	1146	41.3	37	34.7	121	41.7	6.7	1.2
710135	046	11.6	37	37.6	121	40.4	7.3	1.1
710204	325	27.2	37	32.0	121	54.7	5.5	1.3
710204	325	43.9	37	32.1	121	54.6	5.0	2.0
710311	1032	46.4	37	30.6	121	50.2	3.7	1.5
710320	33	41.6	37	36.6	121	40.5	8.3	1.1
710323	451	57.2	37	31.9	121	49.5	3.0	1.0
710401	1351	31.8	37	36.9	121	40.5	7.5	.9
710423	120	22.9	37	36.5	121	54.3	5.5	.8
710424	157	1.4	37	32.6	121	46.4	5.8	1.5
710513	749	17.0	37	32.2	121	54.4	5.0	.8
710513	30	4.1	37	33.0	121	48.0	5.0	1.0
710607	051	23.5	37	37.1	121	40.0	6.9	1.6
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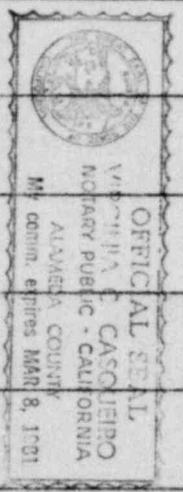
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710909	439	18.7	37	22.3	121	54.8	5.4	2.0
710912	1 2	29.4	37	37.2	121	46.2	5.0	1.5
710914	1036	3.5	37	32.9	121	55.8	6.1	.6
710914	1037	32.4	37	32.9	121	56.0	7.0	1.7
710914	11 4	50.5	37	33.1	121	56.4	5.8	.8
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710923	1022	50.5	37	35.3	121	53.1	4.9	1.5
711012	2354	10.4	37	32.5	121	55.5	5.5	1.4
711105	1144	2.9	37	35.0	121	47.6	5.6	1.7
711109	1144	39.0	37	35.3	121	47.2	4.5	1.3
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711110	1235	58.1	37	33.4	121	55.9	4.9	2.0
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711122	316	23.5	37	36.6	121	45.6	6.6	1.9
711204	1331	34.0	37	41.9	121	49.8	16.2	1.0
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711215	7 9	12.7	37	36.1	121	40.2	6.8	1.1
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720121	952	54.6	37	34.3	121	42.5	4.5	1.2
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720407	1726	2.4	37	34.2	121	50.1	6.4	3.0
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720422	1610	44.7	37	32.0	121	49.0	4.3	1.8
720423	211	37.4	37	32.4	121	48.7	3.9	1.0
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720429	9 5	27.8	37	44.2	121	46.6	6.8	1.7
720516	1141	54.2	37	31.2	121	52.0	4.3	1.5
720523	435	1.4	37	34.4	121	49.1	5.1	1.2
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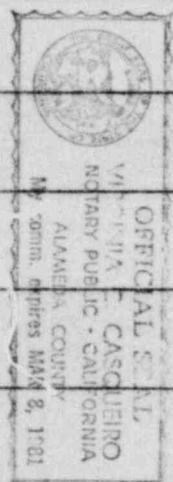
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720630	1018	13.9	37	44.2	121	48.5	10.2	1.6
720701	551	29.1	37	32.7	121	55.0	4.5	.8
720709	2215	40.2	37	40.9	121	45.9	7.9	1.9
720802	2129	0.5	37	37.3	121	53.6	4.5	1.4
720825	1628	45.3	37	36.6	121	50.4	16.8	.9
720828	313	17.5	37	33.6	121	57.7	4.8	.6
720908	544	3.2	37	35.8	121	40.1	7.7	1.0
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720913	1453	28.3	37	33.0	121	56.0	5.0	.6
720925	7 5	16.5	37	32.5	121	55.0	4.4	1.5
720927	1027	27.9	37	31.2	121	53.3	6.1	1.1
721003	2 8	2.3	37	37.2	121	53.8	5.7	1.6
721012	1133	2.9	37	43.3	121	58.2	6.7	.5
721012	1137	31.3	37	43.3	121	58.0	6.6	.8
721012	1244	35.1	37	43.4	121	58.1	6.5	1.1
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721014	753	56.6	37	31.7	121	46.7	3.2	.9
721017	232	3.7	37	39.6	121	50.5	4.4	1.6
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721025	1248	37.9	37	32.0	121	48.3	6.7	.9
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721109	021	7.3	37	32.3	121	48.6	6.6	1.8
721116	12 8	35.2	37	32.5	121	51.1	5.3	2.2
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721117	446	53.3	37	32.9	121	50.9	4.7	.5
721118	1141	5.4	37	32.9	121	50.8	4.8	.4
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721120	9 1	36.3	37	42.7	121	59.1	6.4	.5
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721130	1453	42.9	37	34.9	121	47.2	3.5	1.1
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721130	1746	18.2	37	34.9	121	47.1	6.7	.7
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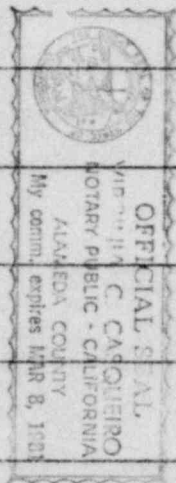
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730107	1716	57.8	37	32.1	121	49.6	4.8	.7
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730110	1827	51.9	37	36.5	121	41.2	5.6	.7
730111	1147	2.6	37	33.4	121	51.7	5.0	1.1
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730111	1232	51.4	37	33.6	121	51.7	5.1	.8
730113	1140	21.3	37	32.5	121	50.5	5.1	.5
730115	2312	37.9	37	36.2	121	53.1	11.7	.8
730128	1724	8.0	37	31.3	121	53.5	5.6	.9
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730330	2221	37.6	37	30.3	121	49.8	3.0	.9
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730705	1453	41.8	37	35.5	121	42.3	7.0	1.0
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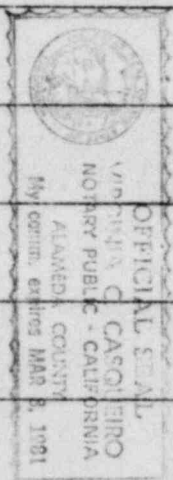
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730902	1523 37.9	37 31.2	121 53.3	6.4	.5
730910	2258 37.8	37 34.4	121 45.3	6.6	.5
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740110	11 8	29.9	37	32.3	121	54.3	5.5	1.5
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740110	1119	29.8	37	32.2	121	54.4	5.5	1.0
740110	1133	39.5	37	32.3	121	54.5	5.4	1.2
740112	735	55.8	37	31.7	121	41.2	5.8	1.0
740115	1344	4.9	37	34.1	121	57.5	2.7	.8
740119	722	7.3	37	34.5	121	57.8	9.6	.8
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740201	4 1	59.1	37	37.2	121	44.0	5.2	1.1
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740207	927	42.2	37	40.5	121	47.2	8.4	.8
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740210	1943	14.6	37	32.0	121	54.4	5.9	2.0
740217	1113	33.3	37	32.8	121	51.0	4.7	.2
740218	1523	49.1	37	30.1	121	51.5	4.2	.9
740223	1359	54.1	37	32.1	121	49.1	2.9	.9
740226	1554	5.6	37	41.6	121	49.0	11.4	1.0
740313	20 3	41.9	37	32.0	121	51.3	12.4	.3
740315	1 8	12.9	37	44.7	121	48.6	10.2	.9
740315	138	2.1	37	44.4	121	48.5	9.8	.8
740317	343	23.1	37	33.5	121	40.6	6.3	1.3
740318	1749	27.0	37	37.5	121	45.1	7.9	1.4
740321	234	44.9	37	35.4	121	48.9	6.1	.9
740321	12 3	31.9	37	35.4	121	57.8	6.3	1.4
740321	2249	35.3	37	35.5	121	57.9	6.0	2.1
740321	2250	51.7	37	35.1	121	58.2	6.5	.4
740324	1218	1.4	37	32.6	121	50.3	8.7	.6
740324	1657	8.8	37	32.6	121	50.5	6.5	3.3
740324	1659	7.7	37	33.1	121	50.0	4.8	1.3
740324	17 1	5.0	37	32.5	121	49.9	6.9	.7
740324	17 2	12.0	37	33.0	121	50.2	6.2	.9
740324	17 4	52.8	37	33.2	121	50.1	6.1	.5
740324	17 7	5.1	37	33.4	121	50.2	6.3	.7
740324	1715	41.5	37	33.4	121	50.0	6.8	.6
740324	1720	37.0	37	32.5	121	50.1	5.4	1.6
740324	18 1	25.1	37	32.6	121	49.3	4.2	.8
740324	2210	19.5	37	33.0	121	49.8	6.0	.7
740325	957	15.8	37	32.6	121	50.0	8.3	.5
740325	1637	37.0	37	33.5	121	50.1	8.0	.6
740328	532	24.7	37	32.4	121	51.0	5.8	1.1
740330	2321	5.1	37	32.7	121	46.2	6.0	.9
740410	559	5.0	37	40.0	121	47.4	7.7	.5
740429	016	59.1	37	35.0	121	41.9	5.9	.8
740429	243	1.3	37	39.5	121	57.7	9.6	1.0
740429	1255	2.5	37	35.5	121	40.1	7.4	.7
740429	1310	46.6	37	35.2	121	40.7	6.8	.7
740504	1359	17.2	37	35.3	121	53.6	4.6	1.2
740505	10 9	35.8	37	34.4	121	58.0	7.8	.2
740522	116	40.9	37	34.4	121	41.3	6.8	.8
740605	542	53.9	37	33.8	121	52.2	7.4	.6
740609	838	13.1	37	30.3	121	40.0	6.2	1.6



740613	739	30.1	37	33.8	121	45.7	1.4	1.0
740623	616	41.2	37	34.6	121	47.0	3.7	1.1
740624	333	14.1	37	30.9	121	50.3	4.3	1.3
740624	657	4.9	37	34.6	121	50.4	8.2	1.4
740627	2041	23.5	37	36.8	121	59.8	5.7	1.4
740629	0 9	9.9	37	32.1	121	54.7	4.4	.6
740824	17 0	30.8	37	31.3	121	40.4	5.7	1.8
740827	212	49.3	37	32.8	121	55.4	4.9	1.2
740830	458	54.1	37	31.5	121	52.2	5.7	2.3
740908	1811	13.4	37	32.6	121	50.2	4.5	.7
740915	1736	17.2	37	32.3	121	49.2	5.6	1.6
740924	344	44.5	37	32.1	121	48.3	3.5	1.3
740929	0 8	44.3	37	33.4	121	49.5	5.9	1.1
740929	2220	4.3	37	36.4	121	46.4	3.0	1.4
740929	2222	12.4	37	36.4	121	46.5	7.0	.9
741013	654	30.7	37	32.6	121	50.5	4.7	1.0
741013	1340	25.1	37	33.4	121	41.0	6.2	1.1
741014	250	25.5	37	37.0	121	45.2	1.8	1.5
741016	1725	25.8	37	32.8	121	50.1	4.0	.6
741017	210	6.3	37	32.3	121	50.3	4.7	1.2
741020	016	12.3	37	32.6	121	50.3	4.6	1.2
741020	333	33.8	37	41.4	121	47.2	12.3	1.7
741020	344	12.0	37	41.8	121	46.6	13.6	1.0
741020	344	44.7	37	41.5	121	47.5	10.8	1.9
741020	5 6	29.7	37	41.6	121	47.0	12.1	1.9
741028	511	20.9	37	32.2	121	53.9	6.5	.6
741028	511	50.8	37	32.0	121	53.7	6.7	.5
741029	2039	6.0	37	36.7	121	46.2	4.6	1.2
741101	042	18.9	37	30.0	121	48.5	1.6	1.1
741107	1455	0.5	37	30.4	121	42.9	5.3	1.1
741108	112	3.0	37	30.1	121	48.0	1.4	1.3
741110	315	48.6	37	30.2	121	48.0	1.2	1.1
741112	1 6	31.2	37	30.3	121	48.3	.6	1.5
741118	1411	23.2	37	34.2	121	57.5	5.1	1.1
741121	347	1.2	37	30.3	121	48.2	1.2	1.6
741123	1029	53.0	37	35.0	121	47.1	3.0	.8
741123	12 1	48.1	37	30.5	121	55.0	5.4	2.0
741124	349	0.5	37	30.3	121	48.2	1.2	1.5
741124	429	0.5	37	35.2	121	47.5	1.2	1.0
741127	1 6	30.1	37	30.3	121	48.3	.7	1.5
741127	20 7	48.9	37	34.4	121	57.5	4.7	1.7
741203	9 1	11.9	37	32.7	121	56.1	6.2	1.3
741203	2349	22.4	37	30.2	121	48.3	1.5	1.2
741209	22 1	6.8	37	30.1	121	48.4	1.2	1.8
741213	0 2	30.4	37	30.3	121	48.2	1.2	1.3
741219	041	13.9	37	30.8	121	48.1	.8	1.3
741219	2216	36.8	37	31.0	121	52.5	5.2	1.5
741220	22 3	45.3	37	30.5	121	48.2	.7	1.5
750108	19 3	31.6	37	33.7	121	48.0	4.6	1.1
750117	1934	39.0	37	37.0	121	59.6	5.7	1.5
750122	344	12.5	37	30.9	121	48.6	5.5	1.8
750124	636	59.9	37	33.7	121	49.7	6.7	1.5
750206	337	0.8	37	30.7	121	48.9	3.7	1.8
750215	1523	33.5	37	33.4	121	50.2	9.6	1.2
750220	729	49.8	37	33.4	121	48.0	4.3	1.0
750222	1355	45.6	37	35.6	121	47.8	4.0	1.0

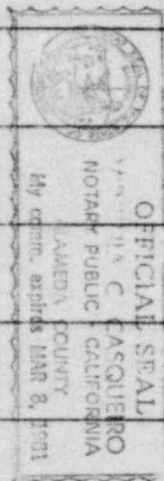


750226	318	48.1	37	32.0	121	49.6	8.5	1.1
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750309	225	39.4	37	35.8	121	57.7	7.3	1.3
750311	191	56.2	37	37.2	121	40.5	9.3	1.5
750313	2224	59.5	37	30.4	121	48.2	4.5	1.7
750316	76	26.1	37	37.3	121	41.5	7.4	1.2
750316	923	15.8	37	37.7	121	41.3	7.4	1.6
750319	2346	13.4	37	30.5	121	48.1	4.9	1.9
750401	1522	9.9	37	32.6	121	54.8	5.0	1.5
750402	1945	45.2	37	39.4	121	46.7	7.5	1.6
750405	421	19.1	37	32.5	121	55.0	5.4	1.6
750427	326	4.2	37	37.0	121	40.9	5.8	1.3
750513	622	12.7	37	31.7	121	53.8	5.8	1.7
750523	1152	50.4	37	33.0	121	52.7	6.5	1.2
750523	1233	32.1	37	33.2	121	52.5	12.7	1.5
750525	1334	57.6	37	36.8	121	46.4	7.0	2.0
750623	1823	18.2	37	30.8	121	50.3	6.7	1.2
750703	2125	13.4	37	37.2	121	51.8	5.1	1.6
750705	1159	54.7	37	35.5	121	57.9	5.8	2.1
750707	040	31.1	37	32.7	121	55.3	3.8	1.2
750716	218	44.7	37	35.3	121	48.7	6.4	1.4
750720	332	36.7	37	35.6	121	57.8	6.2	1.0
750725	1121	0.8	37	36.3	121	45.1	7.2	1.3
750725	1848	22.0	37	35.2	121	58.3	6.2	1.2
750814	199	30.2	37	38.1	121	51.5	4.3	1.9
750819	143	22.1	37	38.4	121	51.4	4.7	1.3
750825	2152	41.4	37	38.3	121	40.6	9.5	2.2
750904	1219	29.0	37	35.3	121	57.7	4.9	.9
750905	210	54.1	37	34.0	121	40.4	5.9	2.0
750921	1174	16.2	37	32.2	121	46.1	3.1	1.2
751004	24	43.0	37	34.0	121	50.4	7.8	1.1
751023	1427	26.4	37	34.3	121	51.7	5.4	1.3
751025	236	6.1	37	36.8	121	40.1	6.8	1.1
751103	444	13.2	37	43.7	121	50.6	11.8	1.3
751106	37	20.4	37	40.8	121	48.6	13.2	1.8
751109	1519	51.5	37	34.6	121	42.1	5.4	1.2
751110	1149	28.3	37	31.4	121	47.3	5.9	2.0
751113	252	1.1	37	37.2	121	47.5	5.2	2.0
751122	1919	23.5	37	32.8	121	50.4	5.3	1.5
751204	2118	34.5	37	33.7	121	49.6	9.0	1.5
751209	104	13.4	37	34.9	121	42.2	5.5	1.6
751225	209	36.3	37	37.1	121	47.2	6.7	1.2
751226	17	6.7	37	32.9	121	50.4	1.6	1.0
751226	246	16.7	37	32.8	121	50.3	5.5	1.5
751228	152	38.7	37	37.0	121	41.5	6.1	2.0
751228	23	11.6	37	36.6	121	41.4	6.8	1.5
751228	351	37.8	37	36.8	121	41.2	6.8	1.4
751231	76	9.3	37	32.8	121	50.4	5.5	2.1
751231	143	36.5	37	32.8	121	50.2	4.8	1.4
751231	147	47.3	37	32.8	121	50.6	4.3	1.0
760101	132	12.0	37	33.2	121	50.2	6.4	1.5
760102	337	39.5	37	32.6	121	50.0	4.8	1.3
760103	1156	16.7	37	32.5	121	50.1	4.6	.9
760103	1251	41.0	37	32.6	121	50.2	4.7	1.0
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760105	235	8.7	37	32.9	121	50.2	4.6	.9

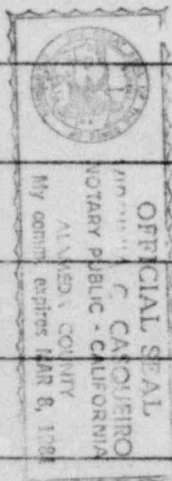


OFFICIAL SEAL
 VICTOR A. CASQUEIRO
 NOTARY PUBLIC - CALIFORNIA
 STAMEN COUNTY
 My Comm. expires MAR 8, 1981

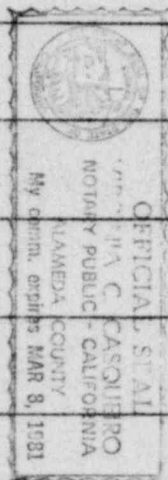
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760118	1751	35.0	37	31.5	121	53.3	5.7	1.0
760124	1150	46.5	37	36.2	121	59.5	2.9	1.1
760125	327	34.1	37	36.5	121	47.5	3.7	1.1
760125	1453	29.7	37	32.7	121	55.5	5.9	1.7
760129	10 3	18.8	37	36.2	121	59.2	4.9	2.4
760202	5 7	55.5	37	44.3	121	56.2	5.2	2.2
760209	1534	14.0	37	34.9	121	58.8	1.4	1.2
760212	155	4.4	37	44.4	121	56.1	4.5	2.4
760212	11 5	20.1	37	44.2	121	56.2	4.6	1.6
760229	1236	42.7	37	44.0	121	58.6	4.0	1.5
760301	17 6	40.1	37	43.6	121	58.1	4.6	3.0
760301	20 5	1.0	37	43.6	121	58.6	3.2	2.5
760302	254	35.3	37	43.3	121	58.6	1.9	2.5
760303	1734	15.2	37	32.6	121	49.7	4.8	1.4
760303	2010	59.5	37	32.5	121	49.9	5.6	2.2
760313	524	23.4	37	34.2	121	40.1	5.6	1.6
760313	1855	28.8	37	32.0	121	54.4	5.7	2.4
760313	19 0	7.1	37	32.0	121	53.9	6.1	1.5
760314	210	10.5	37	32.2	121	54.2	5.4	1.9
760316	1622	46.8	37	32.1	121	54.3	4.9	1.6
760317	310	16.2	37	31.9	121	49.1	8.6	1.3
760320	1347	41.3	37	31.5	121	53.5	6.1	2.6
760320	19 9	33.6	37	31.5	121	53.5	6.0	1.8
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760323	314	4.3	37	37.5	121	41.0	8.7	1.2
760325	2259	5.6	37	32.1	121	54.0	5.0	1.6
760325	2314	33.1	37	31.8	121	54.2	5.7	2.1
760326	318	7.0	37	31.9	121	54.4	5.8	2.1
760412	2136	12.8	37	41.4	121	59.8	2.3	1.4
760414	1557	19.9	37	41.9	121	59.7	4.7	1.7
760414	2359	7.6	37	41.4	121	59.7	2.1	1.6
760418	424	7.4	37	41.5	121	59.3	4.5	2.0
760419	1344	5.5	37	41.6	121	59.3	4.9	1.5
760420	253	55.2	37	30.5	121	49.9	4.3	2.0
760505	817	49.2	37	30.5	121	40.0	6.0	1.6
760519	135	14.5	37	43.7	121	58.6	3.6	2.8
760604	233	34.5	37	31.4	121	41.3	5.6	1.2
760613	949	17.6	37	37.9	121	56.2	9.6	1.5
760630	1139	52.1	37	36.0	121	57.7	6.4	1.7
760709	842	56.7	37	32.4	121	49.9	3.9	1.1
760712	1333	47.0	37	32.0	121	55.0	6.0	1.9
760716	11 1	48.8	37	40.4	121	41.9	2.3	1.8
760716	1144	33.4	37	39.4	121	42.5	.6	1.8
760717	112	7.2	37	32.9	121	49.2	7.8	1.5
760807	946	13.8	37	33.1	121	50.6	8.8	1.7
760831	1229	28.4	37	38.4	121	40.7	9.9	3.0
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760831	15 3	15.9	37	38.0	121	40.7	7.1	2.2
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760831	1531	16.0	37	38.0	121	40.2	8.5	1.2
760831	16 4	2.6	37	38.3	121	40.1	9.0	1.6
760901	357	56.2	37	30.4	121	51.9	4.0	1.6
760901	1319	2.2	37	38.0	121	40.6	8.5	1.5
760903	1127	44.5	37	38.2	121	40.0	9.5	1.1



760904	1031	46.4	37	38.1	121	40.4	9.4	1.4
760904	2248	55.0	37	37.5	121	45.9	1.5	1.5
760905	249	40.0	37	38.8	121	44.9	5.4	1.5
760905	249	59.6	37	37.6	121	46.1	1.2	1.3
760909	2355	23.6	37	38.8	121	44.9	5.7	2.0
760909	2356	44.8	37	38.5	121	45.2	4.9	1.4
760911	946	2.7	37	37.5	121	45.2	2.9	1.8
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761007	2026	15.1	37	36.1	121	47.1	3.3	1.3
761008	59	35.9	37	37.3	121	43.3	4.5	1.1
761017	152	4.2	37	31.7	121	47.7	5.2	2.4
761019	13	21.8	37	37.7	121	54.9	2.0	1.5
761103	1138	5.0	37	41.8	121	57.3	6.9	1.6
761104	1420	46.4	37	38.6	121	45.3	5.4	1.6
761116	44	51.9	37	30.8	121	40.0	5.8	1.8
761116	415	3.9	37	30.8	121	40.1	5.9	1.8
761116	420	18.7	37	30.6	121	40.3	5.8	2.4
761116	428	24.7	37	30.5	121	40.2	6.1	2.1
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761116	517	47.8	37	30.1	121	40.1	2.6	1.8
761128	042	17.0	37	35.7	121	49.5	4.6	1.2
761223	519	21.5	37	32.2	121	48.0	4.1	1.7
770110	0713	9.0	37	34.9	121	48.1	4.3	1.6
770110	1755	37.1	37	31.9	121	54.3	5.9	1.5
770111	0413	39.2	37	35.5	121	58.7	5.6	1.4
770117	1129	39.7	37	33.0	121	56.1	5.5	1.3
770121	0546	2.2	37	32.6	121	46.0	6.4	1.3
770128	0309	9.9	37	43.3	121	59.0	6.4	1.3
770211	1115	32.9	37	34.0	121	58.1	2.7	1.1
770427	2321	10.4	37	30.7	121	55.2	.3	1.7
770429	2054	57.3	37	33.8	121	49.4	4.1	1.3
770621	0243	6.5	37	38.2	121	40.0	10.5	3.9
770621	0256	42.4	37	36.2	121	40.0	10.1	1.5
770621	0417	10.3	37	38.0	121	40.0	9.0	1.1
770621	0442	8.5	37	27.6	121	40.5	9.3	1.1
770621	0443	57.8	37	37.8	121	40.3	8.9	1.2
770621	0500	26.2	37	37.7	121	40.6	9.1	1.2
770622	1201	51.3	37	37.8	121	40.5	9.4	1.3
770623	1936	25.0	37	38.5	121	40.4	9.5	2.1
770625	1410	28.3	37	34.1	121	40.5	6.4	1.3
770628	1246	40.4	37	34.0	121	41.3	2.4	2.7
770628	1304	38.8	37	34.3	121	40.7	4.0	2.1
770628	1454	15.5	37	33.6	121	40.8	3.4	1.2
770628	2200	55.4	37	33.9	121	41.5	2.3	1.8
770703	0548	22.4	37	32.8	121	55.5	4.8	1.3
770703	1216	56.3	37	36.7	121	40.0	8.4	.9
770730	0957	30.7	37	44.2	121	54.8	6.8	1.1
770730	0959	2.9	37	44.0	121	55.2	7.4	1.0
770730	1743	32.6	37	43.9	121	55.1	3.4	1.3
770813	1913	32.0	37	44.1	121	47.7	4.4	1.5
770813	1919	43.8	37	44.2	121	54.7	4.4	.8
770814	0406	36.4	37	44.6	121	54.5	7.0	1.1
770814	1338	51.7	37	43.6	121	55.5	4.7	2.2
770814	1417	48.9	37	44.7	121	55.6	6.0	1.0
770814	1425	34.5	37	44.6	121	54.6	7.6	2.9
770814	1430	13.3	37	44.2	121	55.2	4.4	1.5



770814	1441	49.9	37	43.8	121	55.8	0.	1.9
770814	1449	52.3	37	44.0	121	55.2	4.3	1.1
770814	1453	17.9	37	44.5	121	54.9	4.7	1.3
770814	1500	15.6	37	44.4	121	54.6	5.0	1.9
770814	1503	58.3	37	44.4	121	55.1	6.8	1.0
770814	1539	34.5	37	44.1	121	55.5	3.3	1.4
770814	1542	19.0	37	44.2	121	55.0	2.9	1.3
770814	1647	5.7	37	44.0	121	55.7	3.2	1.5
770814	1713	41.7	37	44.1	121	55.0	3.3	1.4
770814	1813	12.4	37	44.2	121	55.2	3.0	1.7
770814	1813	42.0	37	44.2	121	55.1	3.1	1.6
770814	2004	22.6	37	43.5	121	55.2	3.0	1.4
770814	2005	42.3	37	44.1	121	55.4	3.0	1.6
770814	2006	43.6	37	43.9	121	55.2	3.2	1.3
770814	2244	37.5	37	43.9	121	55.5	3.1	1.2
770815	0333	19.5	37	43.9	121	55.8	2.4	2.2
770815	0414	12.2	37	44.1	121	55.1	3.0	1.3
770815	0521	18.5	37	42.9	121	55.0	0.	1.7
770815	0514	11.8	37	43.9	121	55.9	3.2	1.3
770815	0653	51.5	37	44.1	121	55.8	3.4	2.0
770815	0917	7.5	37	44.2	121	55.0	3.0	1.5
770815	1253	10.2	37	44.2	121	55.0	3.3	1.5
770815	1635	29.9	37	44.2	121	54.7	8.3	1.2
770815	1636	31.2	37	44.3	121	54.9	6.6	1.6
770817	1740	2.4	37	44.0	121	55.5	3.2	1.4
770817	2227	39.2	37	43.8	121	55.6	1.8	2.5
770817	2229	36.0	37	44.1	121	55.1	3.0	1.4
770903	1956	9.4	37	37.0	121	44.2	17.1	.8
770918	1832	46.5	37	33.7	121	42.6	0.	2.0
771105	0642	15.8	37	38.2	121	41.5	4.2	1.5
771105	0720	8.7	37	39.1	121	41.5	5.8	2.0
771105	0931	58.5	37	38.1	121	41.6	5.6	1.9
771122	1146	21.0	37	35.8	121	58.9	5.4	1.3
771122	1428	10.4	37	30.9	121	49.9	5.6	1.0
771124	2210	56.0	37	32.5	121	42.3	.6	1.4
771202	2035	51.2	37	32.5	121	46.9	.5	1.7
780207	239	35.2	37	33.1	121	58.1	6.9	1.7
780207	217	40.0	37	33.7	121	58.2	6.4	1.2
780305	1436	18.7	37	32.0	121	54.6	5.9	1.8
780312	22	2	37	32.8	121	47.0	5.7	1.7
780317	1944	26.3	37	31.7	121	49.8	5.6	2.3
780324	20	9	37	33.9	121	45.2	7.0	1.1
780328	728	45.5	37	32.2	121	49.3	5.1	1.3
780404	1459	2.8	37	38.6	121	49.7	7.3	1.0
780403	013	11.0	37	34.6	121	45.4	6.6	2.6
780410	1541	0.2	37	32.9	121	55.4	5.0	1.4
780419	2142	22.2	37	31.9	121	49.2	2.5	1.3
780515	617	4.2	37	30.6	121	52.7	5.1	1.5
780529	058	51.0	37	34.4	121	49.6	8.7	1.7
780618	110	0.4	37	34.6	121	49.6	8.3	2.0
780707	1757	35.1	37	32.4	121	55.1	3.6	1.4
780721	031	44.1	37	31.2	121	47.5	3.4	1.0
780808	2314	14.2	37	32.8	121	52.2	5.3	1.7
780815	314	59.4	37	21.9	121	48.2	5.3	1.5
780821	2336	5.7	37	32.7	121	49.9	4.3	1.0
780828	332	18.2	37	33.3	121	50.7	6.4	2.3



780914	15 5	17.7	37	33.9	121	50.6	6.4	1.2
781016	615	0.3	37	33.2	121	50.7	8.1	1.4
781017	12 6	38.6	37	32.7	121	48.9	6.8	1.3
781021	1513	47.7	37	31.8	121	53.1	7.6	1.5
781025	4 7	54.0	37	33.3	121	40.0	3.3	1.0
781102	1948	58.2	37	32.5	121	51.9	8.3	1.3
781107	10 7	8.6	37	34.4	121	40.4	4.7	1.4
781118	13 8	18.2	37	30.7	121	51.9	8.4	.9
781123	1216	37.9	37	41.1	121	43.4	8.1	1.4
781127	422	42.1	37	34.5	121	40.0	4.9	1.8
781130	2243	52.7	37	31.1	121	47.0	3.2	1.4
781204	1429	8.5	37	32.5	121	49.2	10.3	2.0
781224	2150	40.1	37	31.6	121	47.2	4.5	1.3
790116	1350	21.0	37	34.9	121	45.8	6.8	1.4
790128	759	55.6	37	40.3	121	48.0	7.6	1.3
790215	1045	45.6	37	37.3	121	48.4	3.2	1.6
790218	1731	16.5	37	31.9	121	55.3	5.7	2.1
790224	14 6	56.7	37	23.3	121	49.7	8.0	1.4
790312	12 6	9.3	37	34.6	121	41.2	7.4	3.0
790313	140	32.6	37	34.3	121	40.9	6.7	1.9
790314	1854	42.5	37	34.1	121	41.0	6.7	1.1
790402	1529	53.5	37	35.7	121	50.1	5.9	1.9
790404	1053	36.1	37	30.1	121	47.4	5.0	1.0
790413	436	24.6	37	37.7	121	43.9	5.0	2.3
790413	646	2.7	37	37.8	121	43.8	4.5	1.9
790430	1315	41.1	37	35.5	121	41.5	6.5	1.8
790430	1315	41.1	37	35.5	121	41.5	6.5	1.8
790430	1419	35.3	37	35.8	121	41.8	6.1	2.1
790430	1437	45.0	37	35.6	121	41.7	6.3	2.2
790505	344	0.8	37	21.2	121	53.6	5.4	1.9
790527	724	22.7	37	34.9	121	49.8	6.6	1.2
790602	434	19.5	37	32.6	121	48.0	5.6	1.5
790603	1459	12.9	37	32.6	121	48.4	5.4	2.0
790615	2239	14.6	37	32.9	121	46.8	5.9	1.8
790616	516	53.6	37	32.6	121	46.2	6.7	.9
790703	1325	45.5	37	35.6	121	59.2	5.6	2.9
790703	1357	22.4	37	35.5	121	59.0	5.7	1.5
790707	513	51.6	37	35.3	121	59.1	5.9	1.4
790726	2355	50.8	37	32.6	121	51.0	6.2	1.2
790806	1341	23.3	37	37.6	121	50.7	5.7	2.0
790806	1941	23.3	37	37.6	121	50.7	5.7	2.0
790905	1550	31.2	37	42.1	121	43.9	4.8	2.4
790905	1622	26.7	37	42.6	121	43.3	4.7	1.7
790905	18 5	34.9	37	42.3	121	43.8	5.7	1.0
790906	744	8.6	37	42.2	121	44.1	6.2	1.0
790907	1813	28.9	37	33.6	121	41.3	7.3	2.0
790919	117	26.9	37	55.0	121	42.2	4.2	.9
790928	4 4	38.3	37	35.9	121	49.4	6.4	.9
791003	1344	47.1	37	35.5	121	42.8	5.2	1.4
791011	3 6	59.7	37	38.0	121	40.2	5.0	1.1
791026	1824	52.3	37	32.4	121	40.7	1.5	1.1
791029	2055	56.7	37	38.5	121	53.4	9.3	1.5
791105	1541	55.3	37	32.6	121	46.3	5.2	1.8

