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CATALOG OF LOCATIONS OF U.S.G.S.  
INSTRUMENTS RECORDING LOW-FREQUENCY DATA  
IN CALIFORNIA

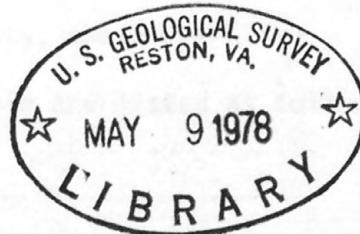
by: William B. Daul  
M. J. S. Johnston

TM  
Rev

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OPEN-FILE REPORT 78-358

This report is preliminary and has not  
been edited or reviewed for conformity  
with Geological Survey standards and  
nomenclature.

March 1978



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CATALOG OF LOCATIONS OF U.S.G.S. INSTRUMENTS RECORDING  
LOW-FREQUENCY DATA IN CALIFORNIA

William B. Daul

M. J. S. Johnston

During the past few years, the U.S. Geological Survey has installed many different types of instrumentation for the observation and detection of crustal deformation within the San Andreas fault system. In order to have an effective earthquake prediction program, it is important to have continuous data from these instruments collected at a central site. A second prerequisite is to provide adequate coverage throughout the large region of active faulting in this system.

The purpose of this report is to provide a convenient summary of locations of instruments operated by the U.S. Geological Survey for which data are either, telemetered to Menlo Park, California or periodically gathered from field surveys and stored on easily accessed files in Menlo Park. At this point, the data are collected at rates of less than one sample per minute and are normally termed "low-frequency" data. Geodimeter sites and alignment array sites are not yet included. The existing sites can be cross-referenced with the seismic stations listed in the U.S. Geological Survey Open-File Report 76-282 (Houck, et. al. 1976).

A brief description of the types of instruments, their operating principles and the principle investigators responsible are listed as follows:

1. RADON GAS Monitoring, alpha particles from Radon decay are detected with either a special dielectric film or a zinc-sulfur scintillation chamber.  
Investigators: Chi Yu King  
Phone (415) 323-8111 ext. 2706  
and Dudley Gaman ext. 2154
2. WELL WATER Level, this is determined by the position of a float connected to a surface recorder (resolution~1 cm).  
Investigators: Chi Yu King  
Phone (415) 323-8111 ext. 2706  
and Dudley Gaman ext. 2154
3. CREEPMETERS, the displacement of two points on opposite sides of a fault is measured as a function of time with an Invar-wire reference (resolution~0.1 mm).  
Investigators: Robert Burford  
Phone (415) 323-8111 ext. 2574  
and Eugene Iwatsubo ext. 2705
4. STRAINMETERS, strain derived from measurements of small displacements between two points in the ground is monitored as a function of time (resolution~0.01 u strain).  
Investigators: Alan Jones  
Phone (415) 323-8111 ext. 2532  
and Malcolm Johnston ext. 2132  
and Bill Daul ext. 2933
5. MAGNETOMETERS, simultaneous magnetic field measurements at fixed locations are made with proton magnetometers as a function of time (sensitivity~0.25 gamma).  
Investigators: Bruce Smith  
Phone (415) 323-8111 ext. 2533  
and Malcolm Johnston ext. 2532  
and Bob Mueller ext. 2694
6. TILTMETERS, tilt of the ground is measured with respect to the local equipotential as a function of time (resolution~0.01 u radian)  
Investigators: Carl Mortensen  
Phone (415) 323-8111 ext. 2583  
and Malcolm Johnston ext. 2132  
and Doug Myren ext. 2705  
and Tom Murray ext. 2705
7. INCLINOMETERS, low-sensitivity tiltmeters used in volcanic areas or slope stability studies (resolution~100 u radian).  
Investigator: Fred Klien  
Phone (415) 323-8111 ext. 2569

8. TELLURIC CURRENTS & SELF-POTENTIAL, these are measured over baselines of up to 10 kilometers, to look for changes generated by active fault behavior.

Investigators: John Rodgers  
Phone (415) 323-8111 ext. 2414  
and Malcolm Johnston ext. 2132

9. MAGNETIC SURVEYS, magnetic field measurements are made periodically at pairs of sites along active faults with proton magnetometers with 1/4 gamma sensitivity.

Investigators: Malcolm Johnston  
Phone (415) 323-8111 ext. 2132  
Bill Daul ext. 2933  
Doug Myren ext. 2705  
Vince Keller ext. 2694  
John Roger ext. 2514

The sites of these instruments are shown in the following series of maps and for each type of instrument, its telemetry code, latitude, longitude, and general location are listed in detail in Table 1. This table is complete as of 3/15/78)

## FIGURE CAPTIONS

FIGURE 1 Tiltmeter sites in southern California.

FIGURE 2 Magnetometer sites in southern California.

FIGURE 3 Radon gas sites in southern California.

FIGURE 4 Inclinometer and tiltmeter sites in the Mt. Lassen area.

FIGURE 5 Creepmeter sites in California from Schulz, S.S., Burford, R.O., and Nason, R.D., 1976 Catalog Of Creepmeter Measurement In Central California From 1973 Through 1975, USGS, open-file report 77-31 p. 7.

FIGURE 6 Detailed map of creepmeter sites for central California from Schulz, S.S., Burford, R.O., and Nason, R.D., 1976 Catalog Of Creepmeter Measurement In Central California From 1973 Through 1975, USGS Open-File Report 77-31, p. 8.

FIGURE 7 Tiltmeter sites in northern California.

FIGURE 8 Magnetometer sites in northern California.

FIGURE 9 Radon Gas sites in northern California.

FIGURE 10 Strainmeter, Well Water Levels, Temperature, Telluric and Self-potential sites in northern California.

FIGURE 11 Magnetic Survey sites in California.

## REFERENCE

Houck, Travis S. et. al., Handbook for U.S.G.S. Central California  
Microearthquake Network 1969-1975, USGS Open-File Report 76-282, p 9-29.

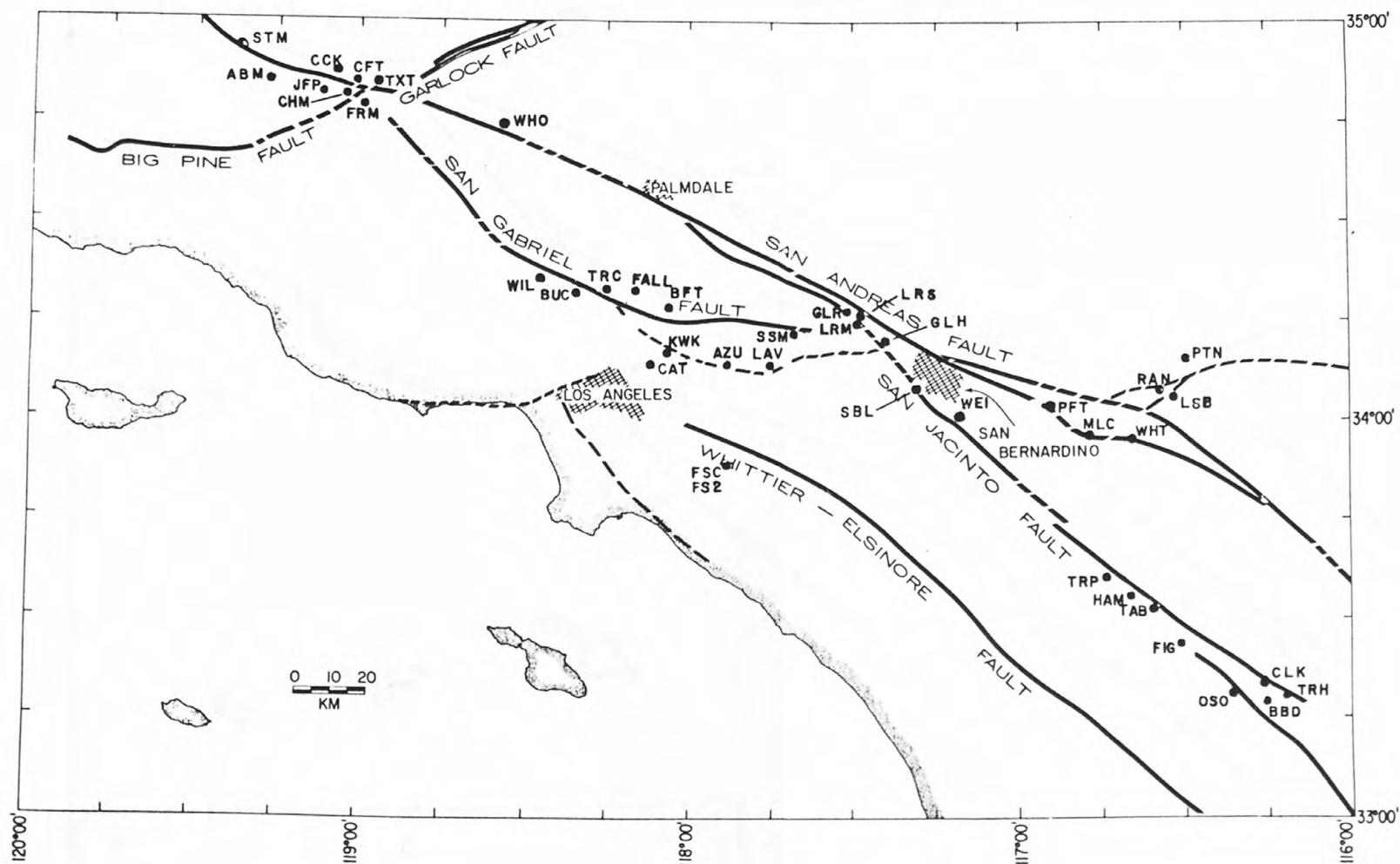


FIGURE 1  
Tiltmeter Sites In Southern California

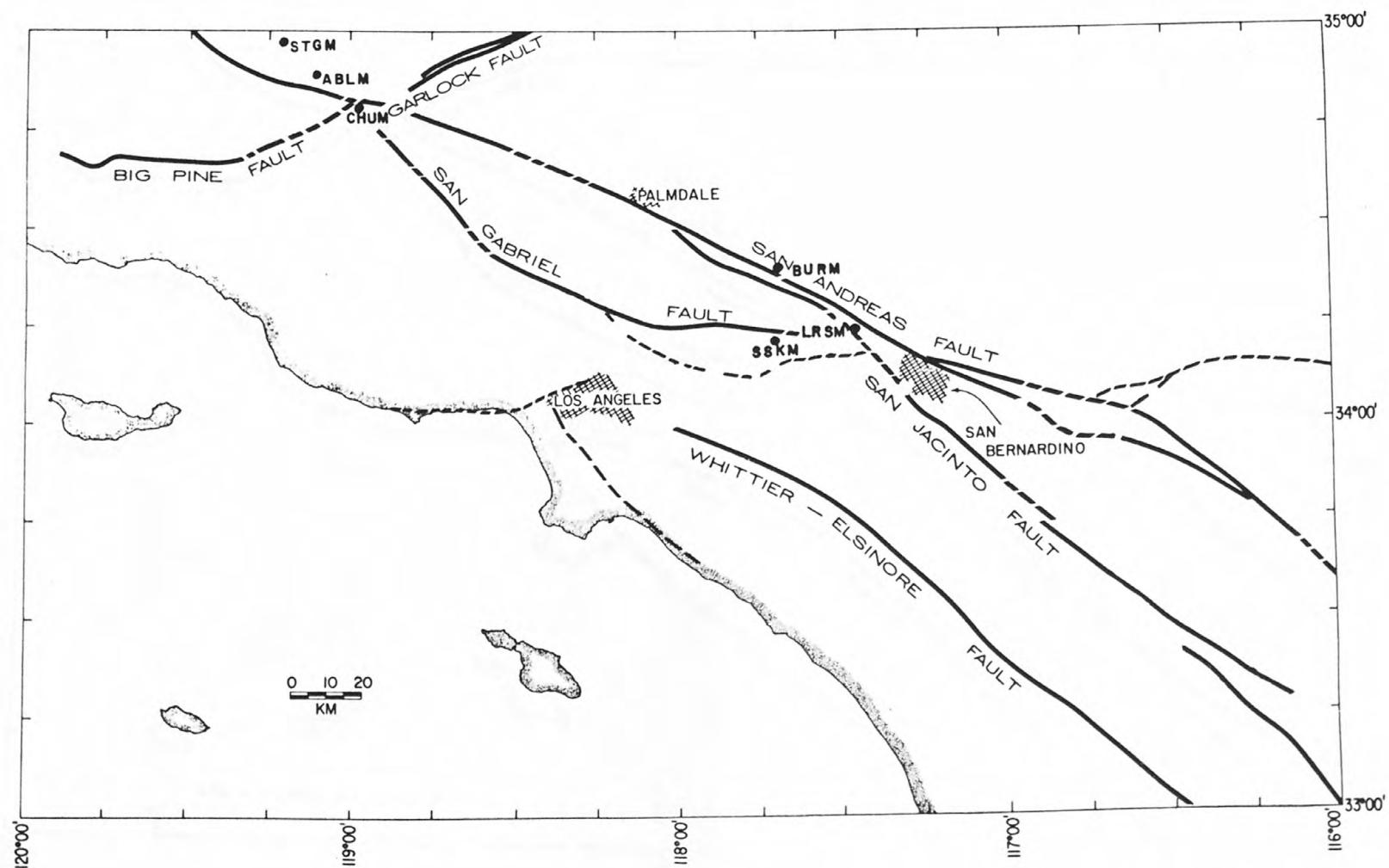


FIGURE 2  
Proton Magnetometer Sites In Southern California

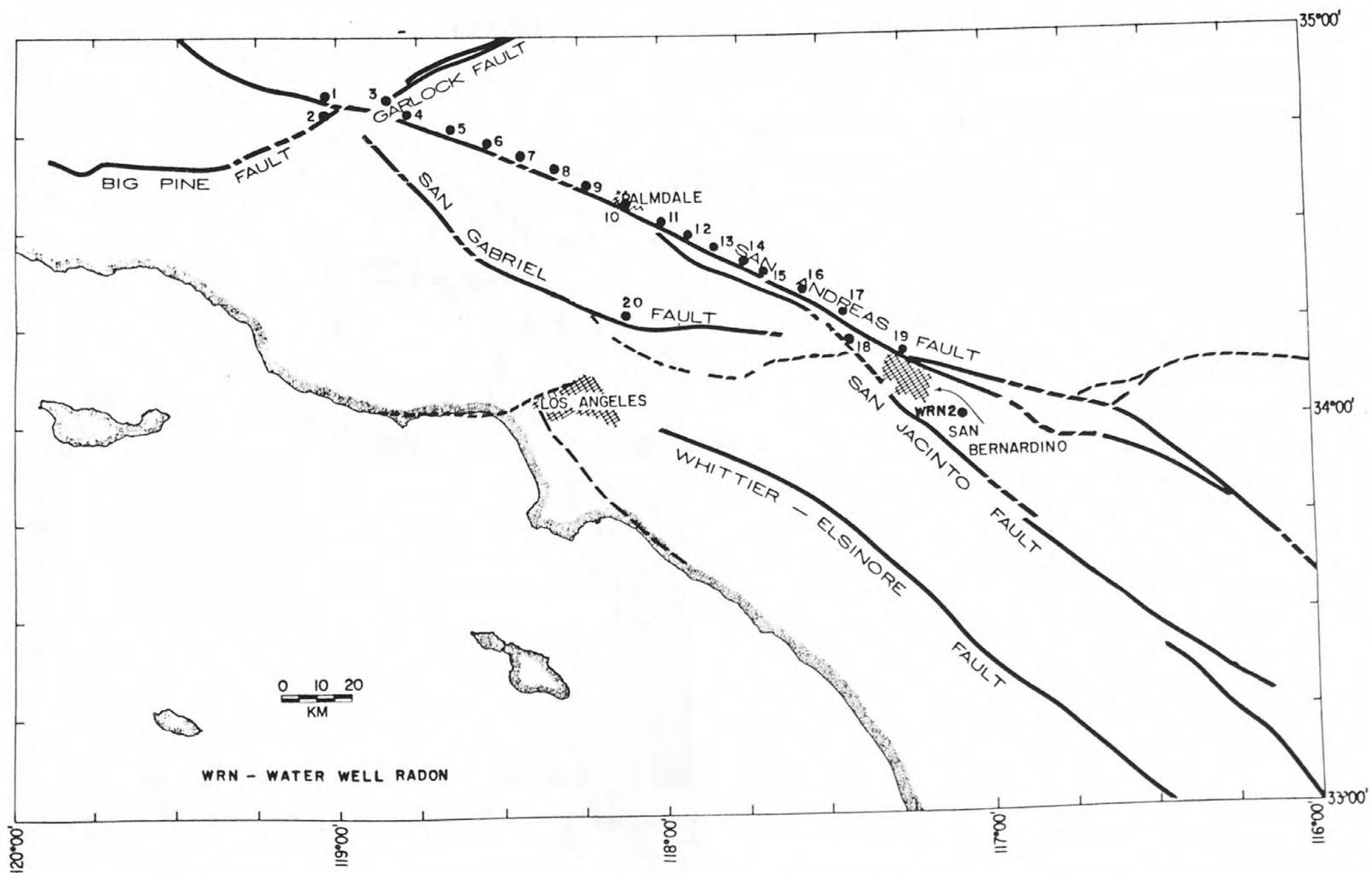
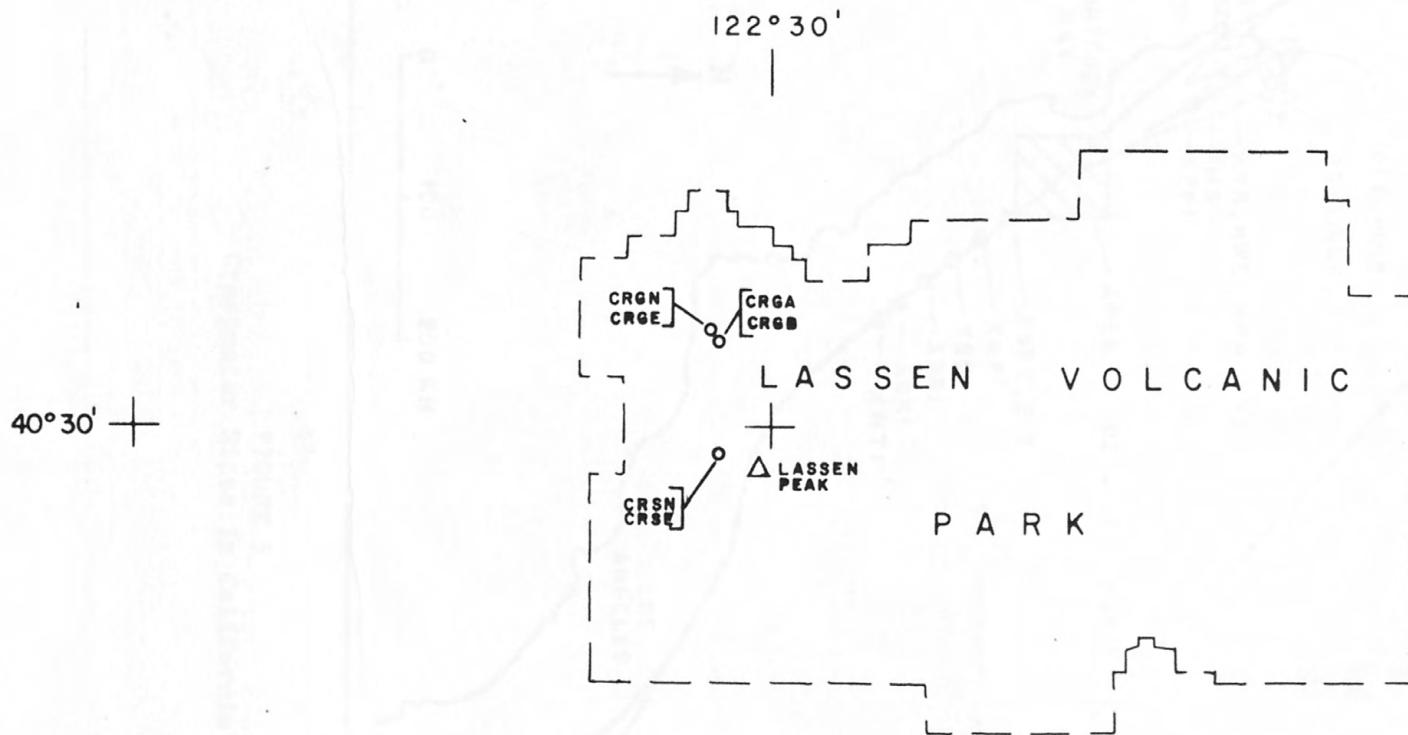


FIGURE 3  
Radon Gas Monitoring Stations In Southern California  
Sites SC01-SC20 & WRN2



SCALE 1:250,000



FIGURE 4  
Inclinometer & Tiltmeters In Mt. Lassen Region

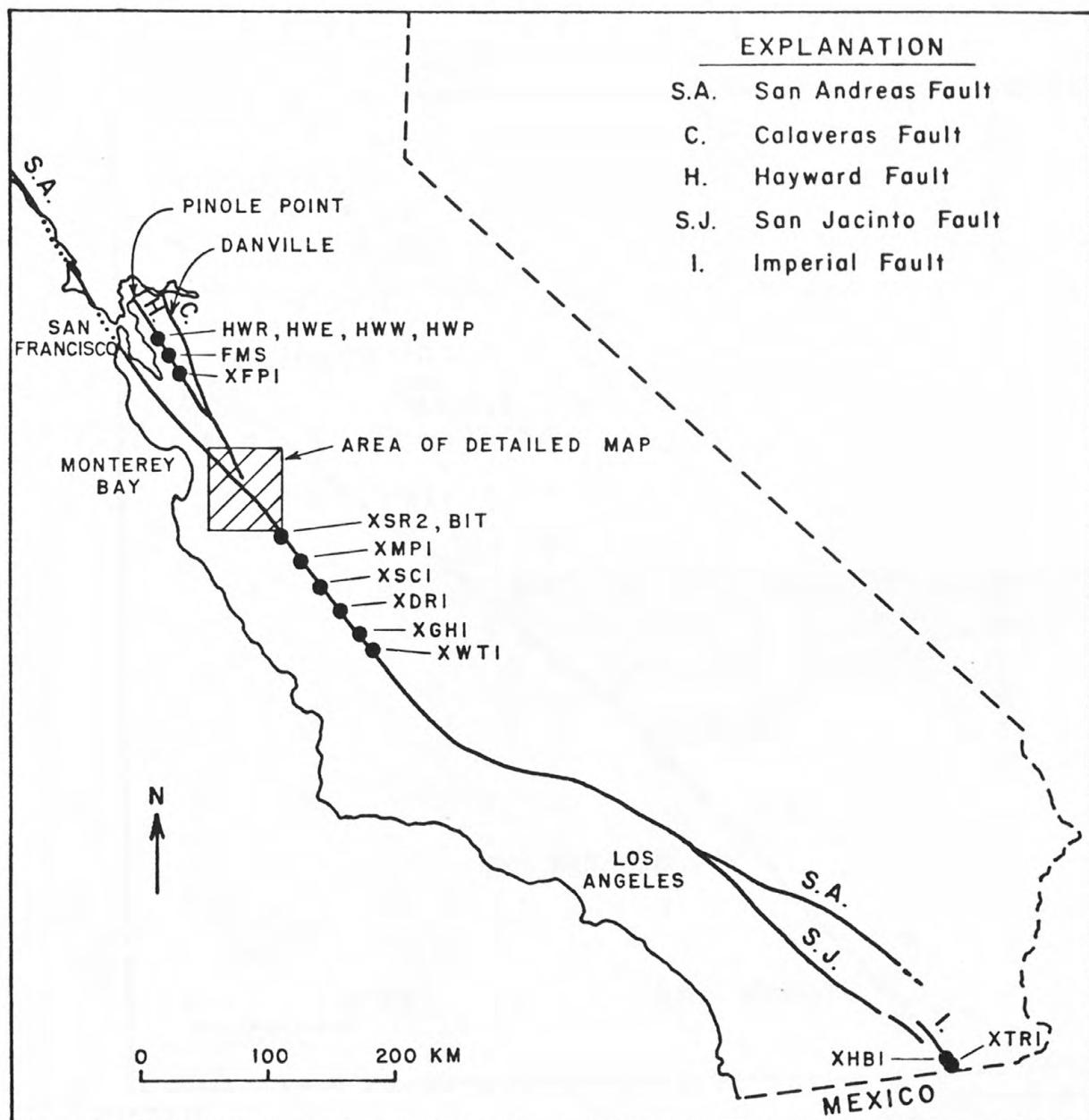


FIGURE 5  
Creepmeter Sites In California

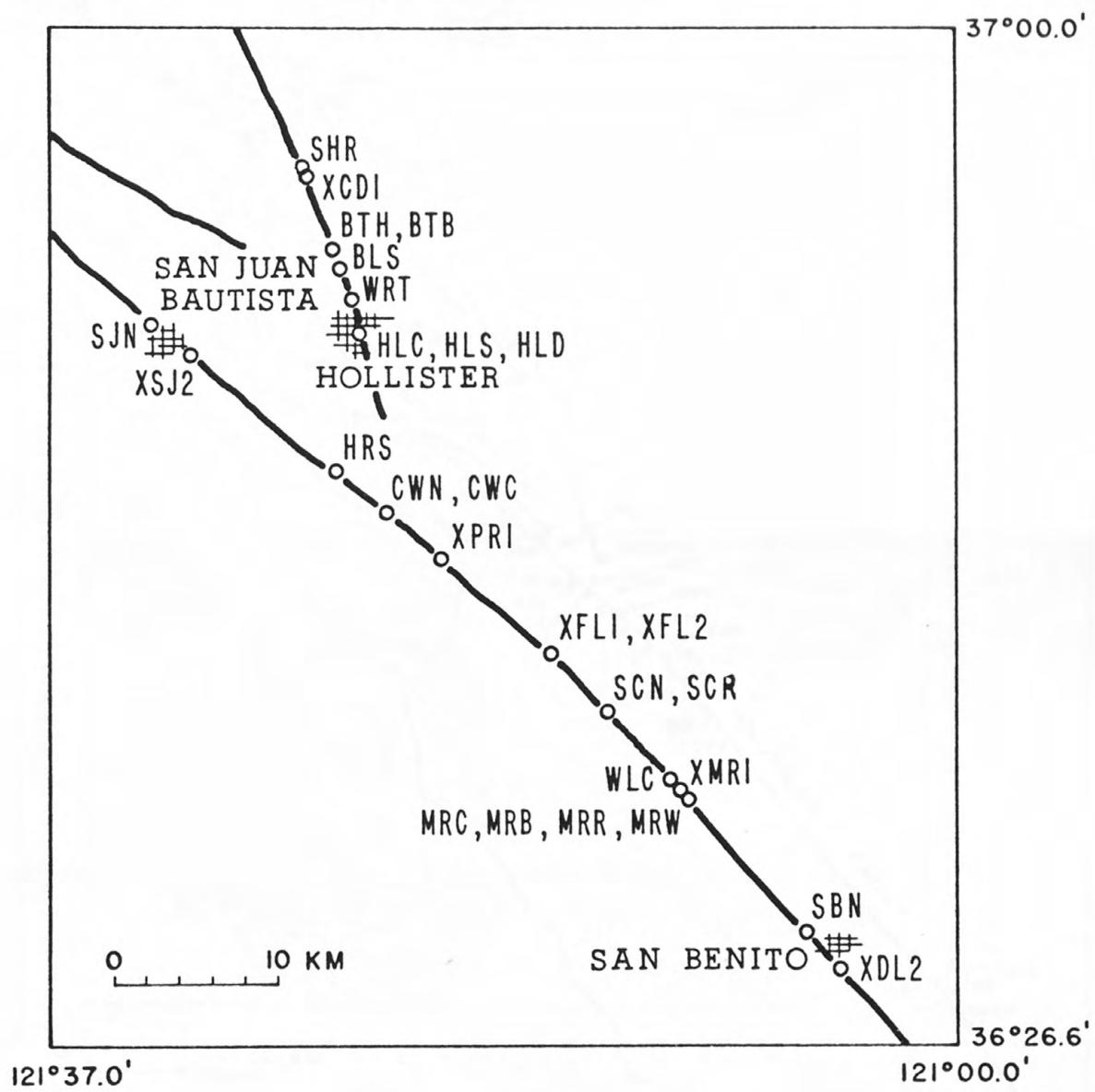


FIGURE 6  
Detailed Map Of Creepmeter Sites  
For Central California

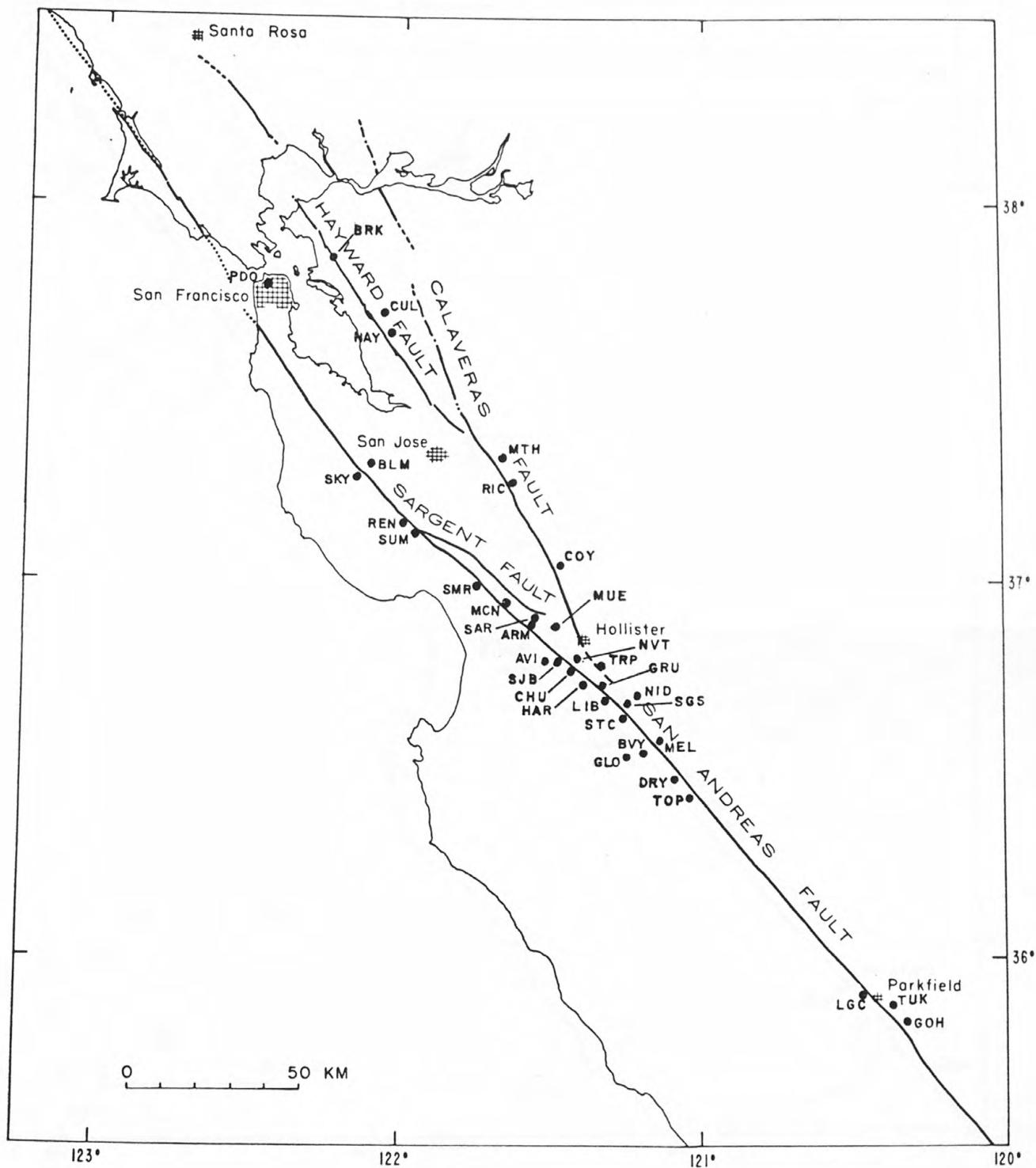


FIGURE 7  
Tiltmeter Sites In Northern California

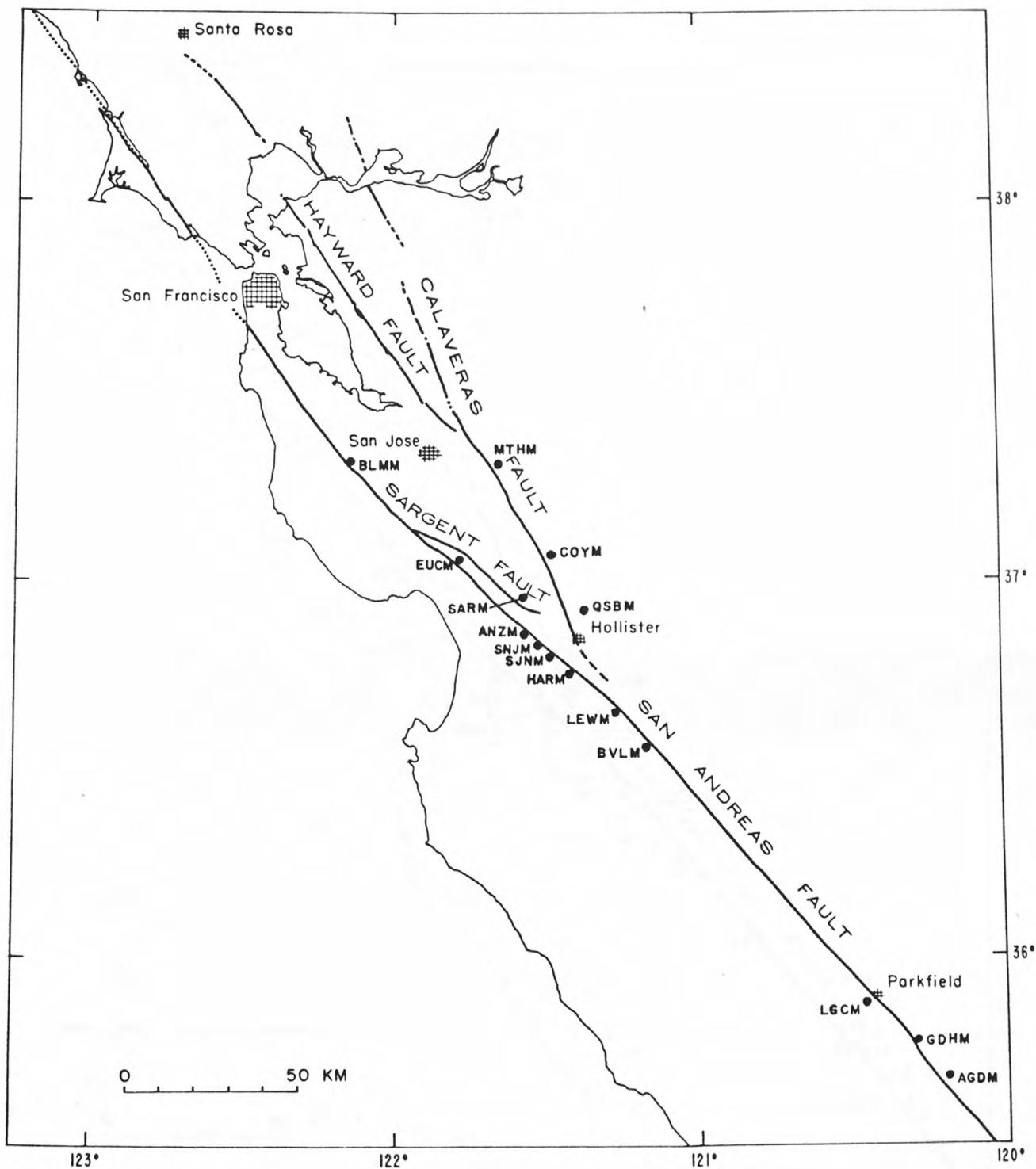


FIGURE 8  
Magnetometer Sites In Northern California

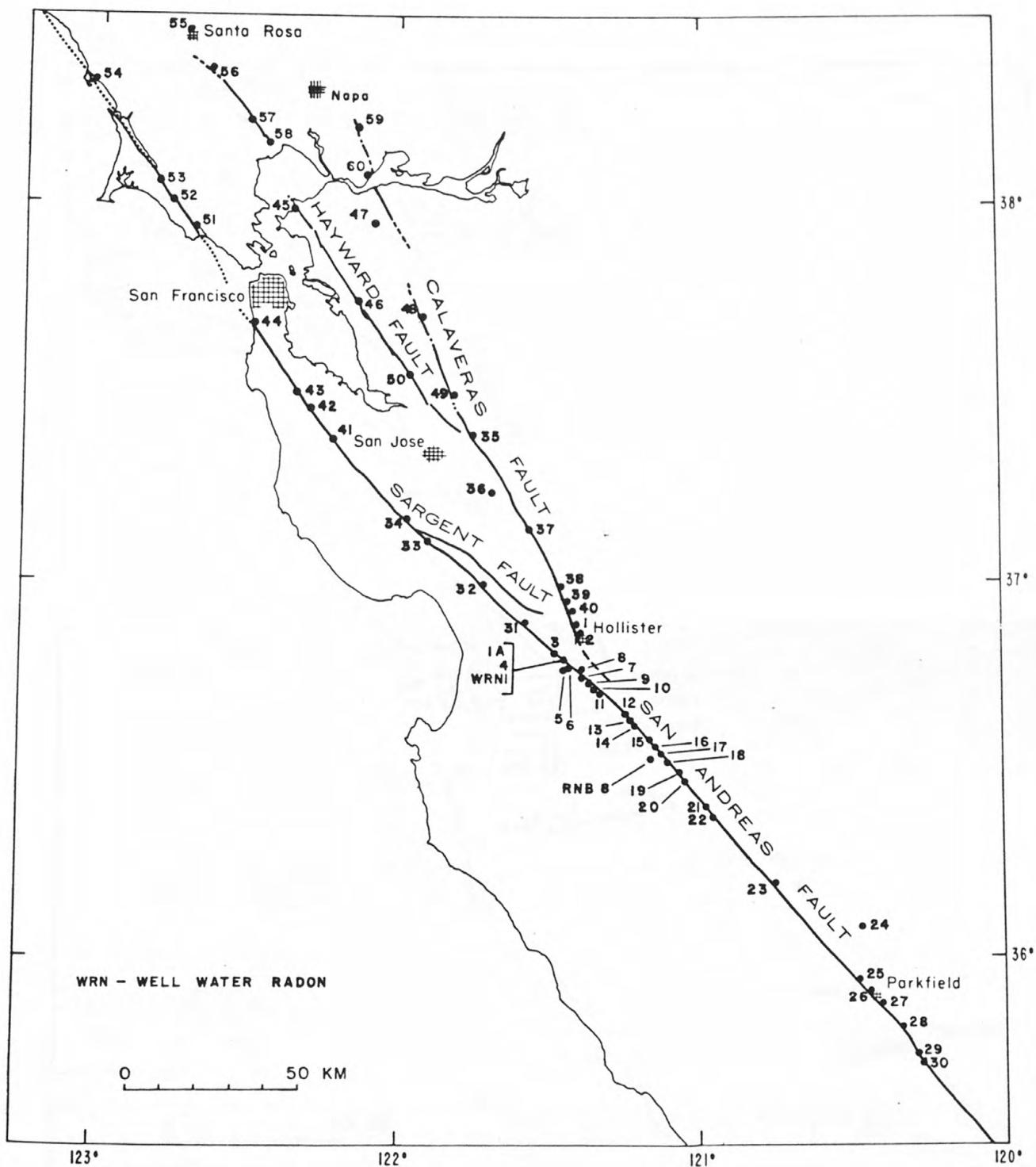


FIGURE 9  
Radon Gas Monitoring Stations In Northern California  
Sites RN01-RN60 & WRN1

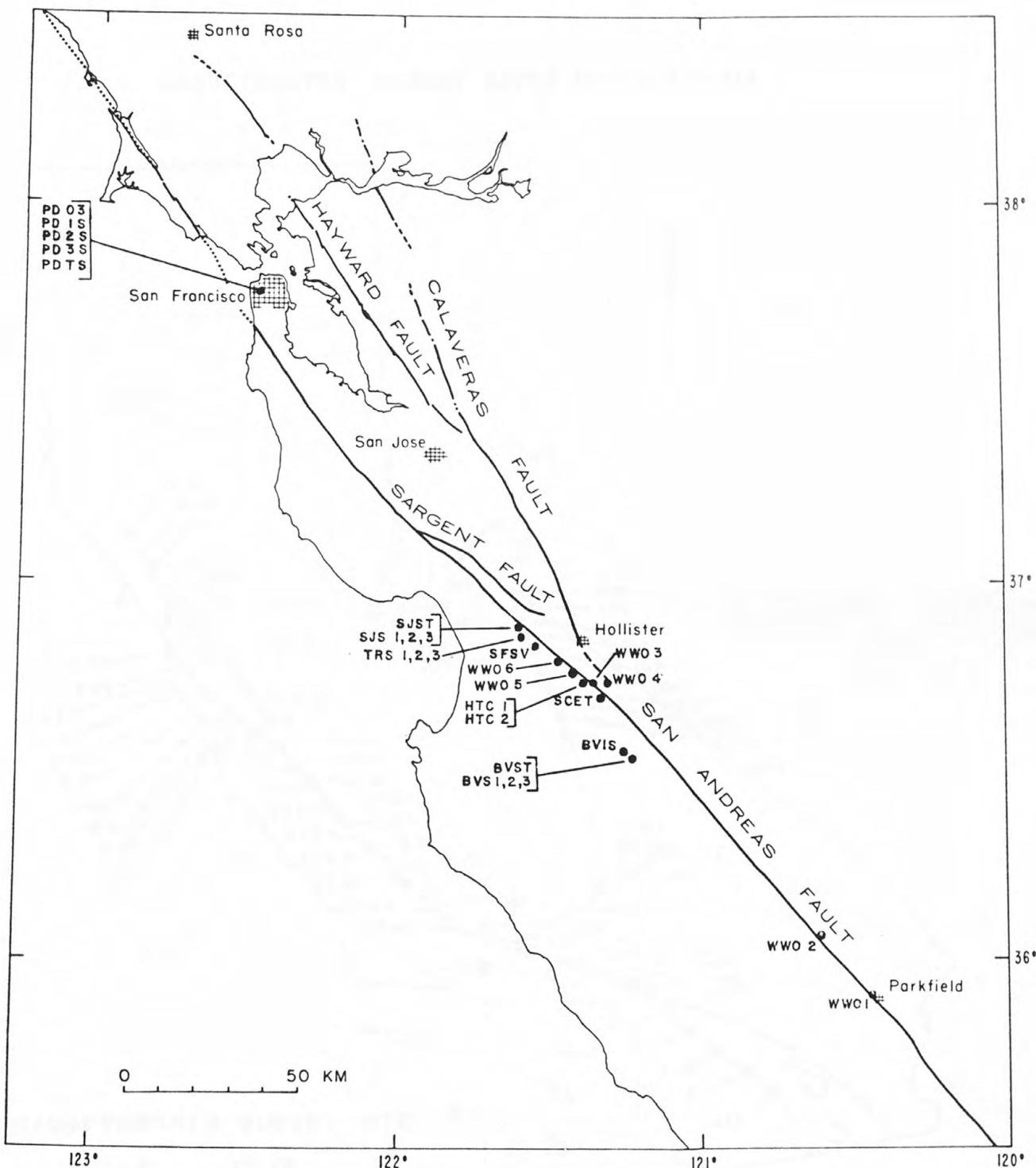


FIGURE 10  
Temperature, Strainmeter, Telluric & Self-Potential  
Site In Northern California

MAGNETOMETER SURVEY SITES IN CALIFORNIA

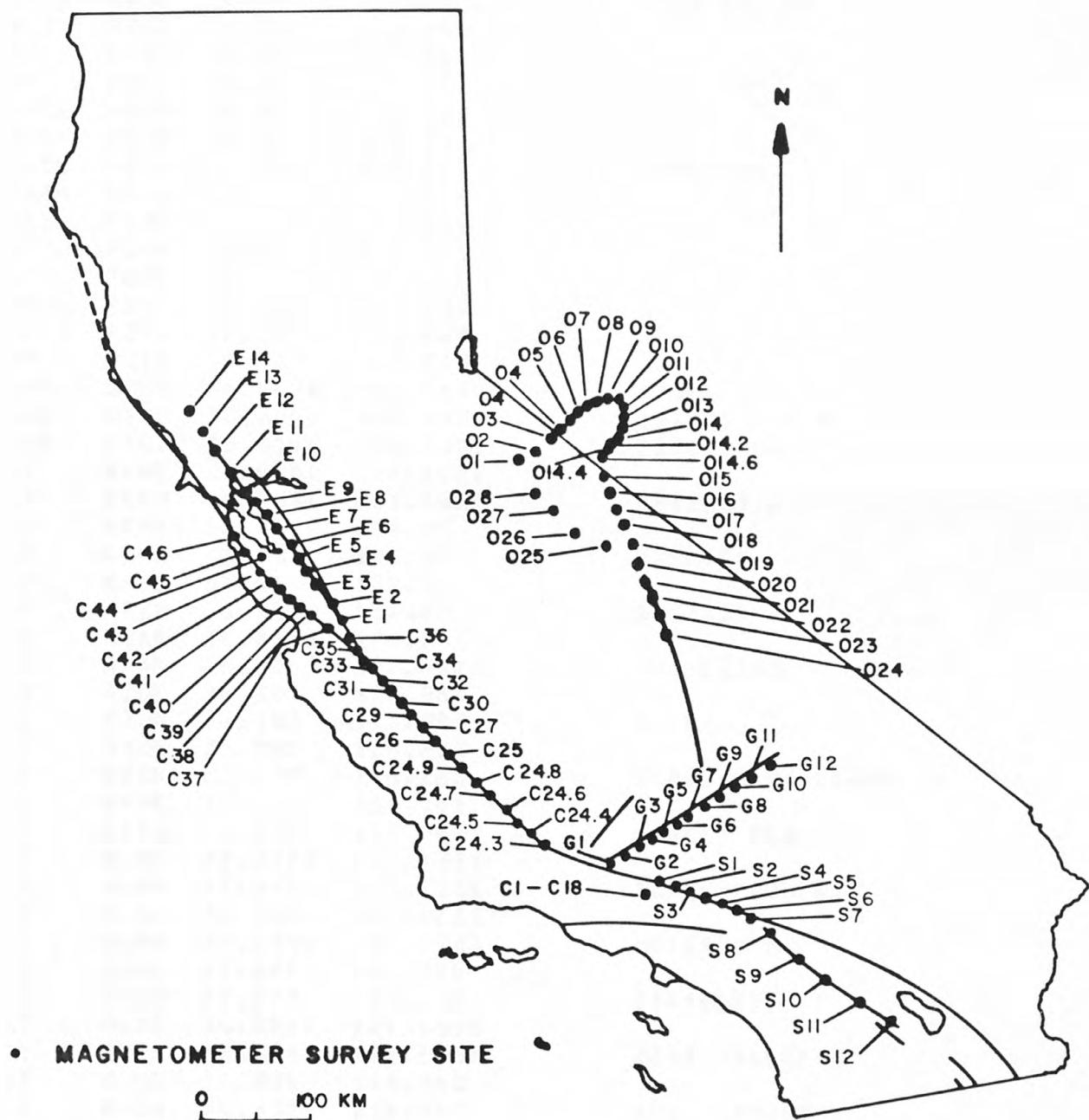


FIGURE 11  
Magnetic Survey Sites In California

TABLE 1.

INST. TYPE	INST. I.D.	LAT.	LCNG.	GENERAL LOCATION
STRAIN	SJS1	36.83	121.543	SAN JUAN
STRAIN	SJS2	36.83	121.543	
STRAIN	SJS3	36.8300	121.5430	
TEMP	SJST	36.83	121.543	
STRAIN	TRS1	36.83	121.54	
STRAIN	TRS2	36.83	121.54	
STRAIN	TRS3	36.83	121.54	
TEMP	TRST	36.83	121.54	
STRAIN	SFVS	36.8183	121.5003	ST. FRANCIS RETREAT
STRAIN	BVS1	36.58	121.19	BEAR VALLEY
STRAIN	BVS2	36.58	121.19	
STRAIN	BVS3	36.58	121.19	
TEMP	BV1T	36.58	121.19	
STRAIN	BV1S	36.58	121.19	
STRAIN	BV2S	36.58	121.19	
STRAIN	PD1S	37.79	122.235	PRESIDIO
STRAIN	PD2S	37.79	122.235	
STRAIN	PD3S	37.79	122.235	
TILT	POON	37.79	122.235	
TILT	POOE	37.79	122.235	
STRAIN	PD03	37.79	122.235	
TEMP	PDT2	37.79	122.235	
TEMP	PCTS	37.79	122.235	
TELUR	SCET	36.6400	121.2600	STCNE CANYON
TELUR	HTC1	36.6056	121.4306	FARRIS RANCH
TELUR	HTC2	36.6056	121.4306	FARRIS RANCH
TILT	ALNE	36.5881	121.1861	
TILT	ALNN	36.5881	121.1861	MELENDY A
TILT	ARME	36.88	121.65	
TILT	ARMN	36.88	121.65	ARCMA1
TILT	AR2E	36.88	121.65	
TILT	AR2N	36.88	121.65	ARCMA2
TILT	AVAE	36.8381	121.5414	
TILT	AVAN	36.8381	121.5414	CAMPESINO
TILT	AZUE	34.163	117.983	
TILT	AZUN	34.163	117.983	AZUSA
TILT	BBDE	33.287	116.263	
TILT	BBDN	33.287	116.263	BCREGO BADLANDS
TILT	BFTB	34.273	118.081	
TILT	BFTN	34.273	118.081	EARLEY FLAT
TILT	BLME	37.3178	122.1361	
TILT	BLMN	37.3178	122.1361	ELACK MOUNTAIN
TILT	BLNE	36.5894	121.1783	
TILT	BLNN	36.5894	121.1783	MELENDY B
TILT	BRKE	37.877	122.235	
TILT	BRKN	37.877	122.235	BERKELEY
TILT	BV2E	36.5711	121.1956	
TILT	BV2N	36.5711	121.1956	BEAR VALLEY 2
TILT	BUCE	34.331	118.342	
TILT	BUCN	34.331	118.342	EUCK CANYON
TILT	BVYE	36.5711	121.1956	
TILT	BVYN	36.5711	121.1956	BEAR VALLEY 1
TILT	CATE	34.132	118.124	
TILT	CATN	34.132	118.124	CAL TECH
TILT	CKE	34.849	119.056	
TILT	CKKN	34.849	119.056	CHERRY CREEK

TILT	CFTE	34.842	118.999	
TILT	CFTN	34.842	118.999	CUDDY FLAT
TILT	CHUE	36.7997	121.4694	CHURCH VALLEY
TILT	CHUN	36.7997	121.4694	
TILT	CLKE	33.339	116.256	CLARK LAKE
TILT	CLKN	33.339	116.256	
TILT	CLNE	36.8381	121.1808	
TILT	CLNN	36.8381	121.1808	MELENDY C
TILT	COYE	37.0661	121.4969	
TILT	COYN	37.0661	121.4969	COYOTE
TILT	CULE	36.7322	121.0675	
TILT	CULN	36.7322	121.0675	CULL GREEK
TILT	DRYE	36.4771	121.0865	
TILT	DRYN	36.4771	121.0865	DRY LAKE
TILT	DR2E	36.4771	121.0865	
TILT	DR2N	36.4771	121.0865	DRY LAKE 2
TILT	FALE	34.299	118.158	
TILT	FALN	34.299	118.158	FALL CREEK
TILT	FIGE	33.4389	116.5164	
TILT	FIGN	33.4389	116.5164	FIG TREE VALLEY
TILT	FRME	34.792	118.954	
TILT	FRMN	34.792	118.954	FRAZIER MTN
TILT	FSCE	33.9	117.9	
TILT	FSCN	33.9	117.9	FULLERTON STATE COL
TILT	GLHE	34.181	117.388	
TILT	GLHN	34.181	117.388	GLEN HELEN
TILT	GLNE	34.26	117.494	
TILT	GLNN	34.26	117.494	GLEN RANCH
TILT	LG1E	36.5658	121.2142	
TILT	LG1N	36.5658	121.2142	LA GLORIA
TILT	GOHE	35.8278	120.3333	
TILT	GOHN	35.8278	120.3333	GOLD HILL
TILT	GVYE	36.7241	121.3461	
TILT	GVYN	36.7241	121.3461	GRASS VALLEY
TILT	HAME	33.571	116.658	
TILT	HAMN	33.571	116.658	HAMILTON SCHOOL
TILT	HARE	36.7531	121.3969	
TILT	HARN	36.7531	121.3969	SACO
TILT	HAYE	37.6525	122.0483	
TILT	HAYN	37.6525	122.0483	HAYWARD
TILT	JFPE	34.82	119.104	
TILT	JFPN	34.82	119.104	JEFFERY PINES
TILT	KWKE	34.16	118.079	
TILT	KWKN	34.16	118.079	KKKK RADIO STA
TILT	LAVE	34.128	117.773	
TILT	LAVN	34.128	117.773	LA VERNE
TILT	LGCE	35.9047	120.4783	
TILT	LGCN	35.9047	120.4783	LANG CANYON
TILT	LIBE	36.6944	121.3433	
TILT	LIBN	36.6944	121.3433	LIBBY
TILT	LRSE	34.234	117.479	
TILT	LRSN	34.234	117.479	LYTLE CK RANGER STA
TILT	LSBE	34.058	116.541	
TILT	LSBN	34.058	116.541	OLE CANYON HOUSE
TILT	MCNE	36.9375	121.6881	
TILT	MCNN	36.9375	121.6881	MCENTEE
TILT	MELE	36.5896	121.1772	
TILT	MELN	36.5896	121.1772	MELENDY
TILT	MLCE	33.972	116.801	
TILT	MLCN	33.972	116.801	MILLARC CANYON
TILT	MTHE	37.3217	121.6678	
TILT	MTHN	37.3217	121.6678	MT HAMILTON

TILT	MTME	37.02	121.72	
TILT	MTMN	37.02	121.72	MT. MADONNA
TILT	MUEE	36.8956	121.5489	
TILT	MUEN	36.8958	121.5489	MUERTAS
TILT	MU2E	36.8958	121.5489	
TILT	MU2N	36.8958	121.5489	MUERTAS 2
TILT	NIOE	36.6769	121.2003	
TILT	NION	36.6769	121.2003	NEW IDRIA 1
TILT	NI2E	36.6769	121.2003	
TILT	NI2N	36.6769	121.2003	NEW IDRIA 2
TILT	NUTE	36.8229	121.4531	
TILT	NUTN	36.8229	121.4531	NUTTING
TILT	NU2E	36.8242	121.4569	
TILT	NU2N	36.8242	121.4569	NUTTING (REDUNDANT 1)
TILT	NU3E	36.8211	121.4506	
TILT	NU3N	36.8211	121.4506	NUTTING (REDUNDANT 2)
TILT	OCHC	34.028	116.598	
TILT	OCHE	34.028	116.598	
TILT	OCHN	34.028	116.598	POFONG VALLEY (BLM2)
TILT	OROE	37.4931	121.4933	
TILT	ORON	37.4931	121.4933	ORCVILLE
TILT	OSOE	33.329	116.373	
TILT	OSON	33.329	116.373	CSC RANCH
TILT	PDOE	37.79	122.235	
TILT	PDON	37.79	122.235	PRESIDIO
TILT	PFTE	34.022	116.906	
TILT	PFTN	34.022	116.906	PINE FLAT
TILT	PTNE	34.156	116.502	
TILT	PTNN	34.156	116.502	PICNEER TOWN
TILT	RANE	34.028	116.598	
TILT	RANN	34.028	116.598	MCRONG VALLEY (RANEY)
TILT	RENE	37.1786	122.0239	
TILT	RENN	37.1786	122.0239	RENICK
TILT	RICE	37.2644	121.7033	
TILT	RICN	37.2644	121.7033	RICHMOND
TILT	SARE	36.93	121.59	
TILT	SARN	36.93	121.59	SARGENT
TILT	SA2E	36.93	121.59	
TILT	SA2N	36.93	121.59	SARGENT 2
TILT	SECE	34.088	117.31	
TILT	SBCN	34.088	117.31	SAN BERN VLY COL
TILT	SGSE	36.6833	121.2679	
TILT	SGSN	36.6833	121.2679	SAGE 1 (SAGE SOUTH)
TILT	SG2E	36.6833	121.2679	
TILT	SG2N	36.6833	121.2679	SAGE 2
TILT	SJBE	36.8350	121.5417	
TILT	SJBN	36.8350	121.5417	SAN JUAN BAUTISTA
TILT	SNSE	34.211	117.503	
TILT	SNSN	34.211	117.503	SAN SEVAINE
TILT	SKYE	37.308	122.175	
TILT	SKYN	37.308	122.175	SKYLINE RANCH
TILT	SMIE	36.9792	121.7356	
TILT	SMIN	36.9792	121.7356	SMITH RANCH
TILT	STCE	36.64	121.26	
TILT	STCN	36.64	121.26	STONE CANYON
TILT	TABE	33.528	116.594	
TILT	TABN	33.528	116.594	TAELA MOUNTAIN
TILT	TA2N	33.528	116.594	
TILT	TA2E	33.528	116.549	TABLE MOUNTAIN (REDUNDANT)
TILT	TKTE	34.832	118.906	
TILT	TKTN	34.832	118.906	TACKETT
TILT	TOPE	36.407	121.062	
TILT	TOPN	36.407	121.062	TOFO VALLEY

TILT	TRCE	34.298	118.245	
TILT	TRCN	34.298	118.245	TRAIL CANYON
TILT	TRFE	33.5875	116.7500	
TILT	TRFN	33.5875	116.7500	TRIPP FLAT
TILT	TRHE	33.307	116.22	
TILT	TRHN	33.307	116.22	TRLCK HAVEN
TILT	TRPE	36.78	121.35	
TILT	TRPN	36.78	121.35	TRES PINOS 1
TILT	TR2E	36.78	121.35	
TILT	TR2N	36.78	121.35	TRES PINOS 2
TILT	TUKE	35.8636	120.3831	
TILT	TUKN	35.8636	120.3831	TUFKEY FLAT
TILT	WEIE	34.015	117.194	
TILT	WEIN	34.015	117.194	WEILENCA RANCH
TILT	WHTE	33.952	116.651	
TILT	WHTN	33.952	116.651	WHITE WATER
TILT	WORE	34.729	118.554	
TILT	WORN	34.729	118.554	LAKE HUGHES (WHITE OAK RANCH)
TILT	WILE	34.344	118.453	
TILT	WILN	34.344	118.453	WILSON CANYON
TILT	CRSE	40.4663	121.5240	
TILT	CRSN	40.4863	121.5240	LASSEN (CRESENT CLIFF)
TILT	CRGE	40.5282	121.5217	
TILT	CRGN	40.5282	121.5217	
INCL	CRGA	40.5282	121.5217	
INCL	CRGB	40.5282	121.5217	LASSEN (CHAOS GRAGS)
MAG	QSBM	36.8368	121.2325	QUIEN SABE
MAG	BVLM	36.5705	121.1892	BEAR VALLEY
MAG	LEWM	36.6641	121.2739	LEWIS RANCH
MAG	HARM	36.7655	121.4459	FARRIS RANCH
MAG	SJNM	36.8177	121.4988	SAN JUAN SOUTH
MAG	ANZM	36.8848	121.5914	ANZAR
MAG	EUCM	37.0525	121.8031	EUREKA CANYON
MAG	BLMM	37.3182	121.1510	ELACK MOUNTAIN
MAG	SARM	36.9537	121.5823	SAFGENT
MAG	MTHM	37.3197	121.6673	MT HAMILTON
MAG	LGCM	35.9063	120.4758	LANGE CANYON
MAG	GDHM	35.8238	120.3377	GOLD HILL
MAG	AGDM	35.7266	120.2490	ANTELOPE GRADE
MAG	CCYM	37.0703	121.4947	COYOTE RESERV.
MAG	SNJM	36.8505	121.5505	SAN JUAN NORTH
MAG	STGM	34.9098	119.3353	SANTIAGO
MAG	ABLM	34.8480	119.2237	MT. ABLE
MAG	CHUM	34.8057	119.0072	CHUCHUFATE
MAG	BLUM	34.4062	117.7262	ELLE RIDGE
MAG	LRSM	34.2405	117.4897	LYTLE CREEK RANGER STATION
MAG	SSKM	34.2120	117.6915	SUNSET PEAK
CREEP	SJN	36.855	121.545	NYLAND
CREEP	XSJ2	36.8367	121.52	SAN JUAN BAUTISTA
CREEP	HRS	36.7717	121.4217	FARRIS
CREEP	CWN	36.7500	121.3850	CIENEGA NORTH
CREEP	CWC	36.7500	121.3850	CIENEGA CENTRAL
CREEP	XPR1	36.7233	121.3484	FAICINES RANCH
CREEP	XFL1	36.6650	121.2717	FRANK LEWIS LONG
CREEP	XFL2	36.6650	121.2717	FRANK LEWIS N - S
CREEP	SCN	36.6367	121.2383	STONE CANYON NORTH
CREEP	SCR	36.6317	121.2317	STONE CANYON RIVER
CREEP	WLC	36.5967	121.1917	WILLOW CREEK
CREEP	XMR1	36.5950	121.1867	MELENDY RANCH
CREEP	MRC	36.5917	121.1850	MELENDY CORRAL
CREEP	MRB	36.5900	121.1833	MELENDY BARN
CREEP	MRR	36.5883	121.1817	MELENDY RIVER

CREEP	MRW	36.5850	121.1767	MELENDY WINDMILL
CREEP	SEN	36.5133	121.1000	SAN BENITO
CREEP	XDL2	36.4917	121.0783	DRY LAKE LONG
CREEP	BIT	36.3983	120.9817	BITTERWATER
CREEP	XSR2	36.3833	120.9667	SMITH RANCH 2
CREEP	XMP1	36.2133	120.7983	MONARCH PEAK
CREEP	XSC1	36.0650	120.6283	SLACK CANYON
CREEP	XDR1	35.8833	120.4200	CURHAM RANCH
CREEP	XGH1	35.8200	120.3483	GOLD HILL
CREEP	XWT1	35.7567	120.3083	WATER TANK
CREEP	XPH1	35.1469	119.6914	ELKHORN
CREEP	CWT	37.8550	122.2367	CLAREMCNT WATER TUNNEL
CREEP	HWR	37.6800	122.0900	HAYWARD, ROSE ST.
CREEP	HWE	37.6700	122.0800	HAYWARD, D ST. EAST
CREEP	HWW	37.6700	122.0800	HAYWARD, D ST. WEST
CREEP	HWP	37.6633	122.0750	HAYWARD, PALISADE ST.
CREEP	FMS	37.5683	121.9817	FREMCNT, SHINN STATION
CREEP	XFP1	37.5067	121.9300	FREMCNT, PRUNE AVE.
CREEP	SHR	36.9433	121.4450	SHORE ROAD
CREEP	CAM	36.9286	121.4372	COSTA DAIRY (NORTH)
CREEP	BTH	36.9017	121.4267	BERTUCCIO HOUSE
CREEP	BTB	36.9017	121.4267	BERTUCCIO BARN
CREEP	BLS	36.8933	121.4233	BOLSA ROAD
CREEP	WRT	36.8700	121.4133	WRIGHT ROAD
CREEP	HLC	36.8567	121.4050	HOLLISTER, CENTRAL AVE.
CREEP	HLS	36.8517	121.4033	HOLLISTER, SEVENTH ST.
CREEP	HLD	36.8417	121.4033	HOLLISTER, D STREET
CREEP	BSH	36.9433	121.4517	EUSCH (HOLLISTER VALLEY)
CREEP	KER	35.4533	119.0317	KERN FRONT FAULT
CREEP	TFT	35.1617	119.4400	EUENA VISTA FAULT
CREEP	XCO1	36.9267	121.4367	COSTA DAIRY
CREEP	XTR1	32.6933	115.3750	TUTTLE RANCH
CREEP	XHB1	32.7300	115.4050	FEER ROAD
WELL	WW01	35.8350	120.3383	PARKFIELD
WELL	WW02	36.0583	120.6500	SLACK CANYON
WELL	WW03	36.7517	121.3867	CIENEGA WINERY
WELL	WW04	36.7583	121.3350	SWANSON RANCH (TRES PINOS)
WELL	WW05	36.8200	121.4983	ST. FRANCIS RETREAT
WELL	WW06	36.8461	121.5247	SHANGAI BROTHERS
WELRON	WRN1	36.8400	121.5250	MISSION FARM CAMP
WELRON	WRN2	33.9583	117.0600	SAN TIMOTEO CANYON
RADON	SC01	34.8358	119.0483	CUEDY VALLEY
RADON	SC02	34.7958	119.0388	FLUNDEROSA RANCH
RADON	SC03	34.8275	118.8537	HAUPTMAN RESIDENCE
RADON	SC04	34.7825	118.7975	DE FAZIO RESIDENCE
RADON	SC05	34.7437	118.6587	HORSE TRAIL
RADON	SC06	34.7150	118.5425	TIMBERLINE MEADOW RANCH (SOUTH)
RADON	SC07	34.6803	118.4353	LAKE HUGHES (SOUTH)
RADON	SC08	34.6350	118.3452	GRIGGS RANCH
RADON	SC09	34.5967	118.2367	RITTER RIDGE
RADON	SC10	34.5525	118.1097	UNA LAKE, PALMDALE
RADON	SC11	34.5113	118.0253	LITTLE ROCK PALMDALE DAM
RADON	SC12	34.4793	117.9325	106TH STREET
RADON	SC13	34.4437	117.8480	VALYERMO RANGER STA.
RADON	SC14	34.4072	117.7617	MILE HIGH RANCH
RADON	SC15	34.3808	117.6797	BIG FINE RANGER STA.
RADON	SC16	34.3250	117.5530	CLYDE RANCH
RADON	SC17	34.2658	117.4575	ELLE CUT
RADON	SC18	34.2092	117.3497	PALM BLVD.
RADON	SC19	34.1767	117.2767	ARROWHEAD SPRING
RADON	SC20	34.2733	118.1417	SWITZER CAMP
RADON	RN01	36.8933	121.4233	BOLSA RD.

RADON	RN1A	36.8400	121.5250	MISSION FARM WELL
RADON	RN02	36.8700	121.4133	WRIGHT RD.
RADON	RN03	36.8550	121.5450	NYLAND
RADON	RN04	36.8400	121.5250	ARTESIAN WELL
RADON	RN05	36.8350	121.5200	SAN JUAN EAUTISTA
RADON	RN06	36.8200	121.4983	ST. FRANCIS RETREAT
RADON	RN07	36.7733	121.4217	HARRIS NORTH
RADON	RN08	36.7700	121.4150	HARRIS SOUTH
RADON	RN09	36.7517	121.3867	CIENEGA WELL
RADON	RN10A	36.7017	121.3183	THOMPSON CREEK
RADON	RN11A	36.6900	121.3017	PESCADERO CREEK
RADON	RN12	36.6650	121.2717	FRANK LEWIS
RADON	RN13	36.6367	121.2383	STCNE CANYON (NORTH)
RADON	RN14	36.6350	121.2333	STONE CANYON HILL
RADON	RN15	36.5950	121.1900	WILLOW CREEK
RADON	RN16	36.5917	121.1850	MELENDY CORRAL
RADON	RN17	36.5883	121.1817	MELENDY RIVER
RADON	RN18	36.5833	121.1767	MELENDY WINDMILL
RADON	RN88	36.5533	121.2450	BICKMORE CANYON
RADON	RN19	36.5100	121.0983	SAN BENITO
RADON	RN20	36.4917	121.0783	DRY LAKE
RADON	RN21	36.4200	121.0050	LITTLE RABBIT VALLEY
RADON	RN22	36.4083	120.9467	EITTERWATER VLY
RADON	RN23	36.1933	120.7700	MUSTANG RIDGE
RADON	RN24	36.0867	120.4800	PAFKFIELD JUNCTION
RADON	RN25	35.9533	120.4750	LITTLE CHOLAME CRK
RADON	RN26	35.8950	120.4333	PARKFIELD BRIDGE
RADON	RN27	35.8783	120.4150	TURKEY FLAT
RADON	RN28	35.8200	120.3483	GOLD HILL
RADON	RN29	35.7567	120.3083	WATER TANK
RADON	RN30	35.7333	120.2883	FHWY 46
RADON	RN31	36.9017	121.5967	CHITTENDEN
RADON	RN32	36.9933	121.7350	WATSCNVILLE
RADON	RN33	37.1050	121.9000	LALREL
RADON	RN34	37.1633	121.9867	LCS GATOS
RADON	RN35	37.3767	121.7800	SAN JOSE
RADON	RN36	37.2350	121.6867	COYOTE
RADON	RN37	37.1517	121.5817	ANERSON LAKE
RADON	RN38	36.9950	121.4750	SAN FELIPE LAKE (NORTH)
RADON	RN39	36.9433	121.4450	SHCRE ROAD
RADON	RN40	36.9233	121.4383	FACHECO
RADON	RN41	37.3817	122.2267	SPRING DOWN FARM
RADON	RN42	37.4833	122.3150	PULGAS WATER TEMPLE
RADON	RN43	37.5767	122.4083	SAN ANDREAS LAKE
RADON	RN44	37.6817	122.4917	CALY CITY
RADON	RN45	37.9900	122.3717	RICHMOND
RADON	RN46	37.7583	122.1567	HCLY REDEEMER COLLEGE
RADON	RN47	37.9683	122.1000	MARTINEZ
RADON	RN48	37.6867	121.9283	CUELIN
RADON	RN49	37.5033	121.8317	CALAVERAS RESERVOIR
RADON	RN50	37.5367	121.9567	FFREMONT
RADON	RN51	37.9350	122.6983	BCLINAS
RADON	RN52	37.988	122.745	MILE 22
RADON	RN53	38.045	122.798	FT. FEYES RANGER STATION
RADON	RN54	38.327	123.057	BOECA HEAD
RADON	RN55	38.47	122.683	SANTA ROSA
RADON	RN56	38.375	122.638	JCT. CRANE CYN & GRANGE RDS.
RADON	RN57	38.237	122.512	WILLIE BIRD TURKEY FARM
RADON	RN58	38.177	122.45	SEARS POINT
RADON	RN59	38.203	122.153	CORDELIA
RADON	RN60	38.1	122.105	BENICIA
PTBMAG	G001	34.8667	118.825	CARLOCK FAULT

PTBMAG	G002	34.9333	118.6667	
PTBMAG	G003	35.0292	118.3875	
PTBMAG	G004	35.0396	118.3125	
PTBMAG	G005	35.1750	118.1417	
PTBMAG	G006	35.2708	118.1417	
PTBMAG	G007	35.3500	117.9438	CARLOCK FAULT
PTBMAG	G008	35.4063	117.7917	MOJAVE
PTBMAG	G009	35.4563	117.5958	ROSE
PTBMAG	G010	35.5333	117.4000	QUAI
PTBMAG	G011	35.5521	117.2375	THRE
PTBMAG	G012	35.5708	117.1208	LAKE
PTBMAG	MOJA	35.0042	118.1771	LANC
PTBMAG	ROSE	34.8646	118.1396	RITT
PTBMAG	QUAI	34.7500	118.7292	S013
PTBMAG	THRE	34.7250	118.6125	PALM
PTBMAG	LAKE	34.6688	118.4438	SANF
PTBMAG	LANC	34.7146	118.0542	AGUA
PTBMAG	RITT	34.6042	118.2708	ACTO
PTBMAG	S013	34.5271	118.0896	S001
PTBMAG	PALM	34.5146	118.0792	S002
PTBMAG	SANF	34.3250	118.4208	S003
PTBMAG	AGUA	34.4333	118.3333	CLYD
PTBMAG	ACTO	34.4563	118.2000	DAYC
PTBMAG	S001	34.4375	117.9000	LYTL
PTBMAG	PUNC	34.4396	117.9167	S004
PTBMAG	BALL	34.3760	117.7375	S002
PTBMAG	S002	34.3750	117.7396	S003
PTBMAG	S003	34.3188	117.5958	PTBMAG
PTBMAG	CLYD	34.3167	117.5813	CLYD
PTBMAG	DAYC	34.1625	117.5458	LYTL
PTBMAG	LYTL	34.2354	117.4906	S004
PTBMAG	PTBMAG	34.2188	117.4708	PALM
PTBMAG	PALM	34.2208	117.3844	S005
PTBMAG	S005	34.1208	117.3604	CITY
PTBMAG	CITY	34.1313	117.2000	MILL
PTBMAG	MILL	34.0771	117.0521	NEWP
PTBMAG	NEWP	34.0708	117.0833	S006
PTBMAG	S006	34.0167	117.2125	DEAN
PTBMAG	DEAN	33.9375	117.1313	S007
PTBMAG	S007	33.9021	117.1375	S08A
PTBMAG	S08A	33.8427	117.0073	MASS
PTBMAG	MASS	33.8375	116.9938	CHER
PTBMAG	CHER	33.9604	116.9475	BAUT
PTBMAG	BAUT	33.6885	116.8604	S009
PTBMAG	S009	33.6802	116.8438	VERB
PTBMAG	VERB	33.9396	116.7219	PTBMAG
PTBMAG	BIGM	33.9948	116.5542	FUNV
PTBMAG	FUNV	33.8865	116.3917	INDI
PTBMAG	INDI	33.7917	116.2042	DEAD
PTBMAG	DEAD	33.6604	116.4063	S10A
PTBMAG	S10A	33.5583	116.6354	ANZA
PTBMAG	ANZA	33.5521	116.6208	PTBMAG
PTBMAG	ALPI	33.5760	116.4750	ALPI
PTBMAG	S011	33.4375	116.5104	PTBMAG
PTBMAG	S012	33.3000	116.3475	E001
PTBMAG	E001	36.9792	121.3625	PTBMAG
PTBMAG	E002	37.0625	121.5208	E003
PTBMAG	E003	37.1083	121.6583	PTBMAG
PTBMAG	E004	37.3417	121.7292	E005
PTBMAG	E005	37.4750	121.8333	PTBMAG
PTBMAG	E006	37.5958	121.9792	E006
PTBMAG	E007	37.7167	122.0750	E007

PTBMAG	E 008	37.8500	122.2038
PTBMAG	E 009	37.9958	122.3333
PTBMAG	E 010	38.1458	122.4625
PTBMAG	E 011	38.3000	122.5958
PTBMAG	E 012	38.4583	122.7125
PTBMAG	E 013	38.5792	122.8375
PTBMAG	E 014	38.7083	122.9500
PTBMAG	C 244	35.3750	119.4208
PTBMAG	C 245	35.0708	119.6000
PTBMAG	C 246	35.1833	119.7500
PTBMAG	C 247	35.3083	119.8875
PTBMAG	C 248	35.4458	121.0000
PTBMAG	C 249	35.6104	120.1708
PTBMAG	C 025	35.7125	120.2625
PTBMAG	C 026	35.8750	120.4167
PTBMAG	C 027	35.9958	120.5750
PTBMAG	C 029	36.0750	120.6667
PTBMAG	C 030	36.1875	120.8125
PTBMAG	C 031	36.2958	120.9917
PTBMAG	C 032	36.4458	121.0542
PTBMAG	C 033	36.5500	121.1667
PTBMAG	C 034	36.6833	121.2625
PTBMAG	C 035	36.7917	121.3125
PTBMAG	C 036	36.8021	121.4958
PTBMAG	C 037	36.9021	121.6042
PTBMAG	C 038	36.9667	121.6958
PTBMAG	C 039	37.0375	121.7792
PTBMAG	C 040	37.0979	121.8833
PTBMAG	C 041	37.1708	122.0125
PTBMAG	C 042	37.2958	122.1250
PTBMAG	C 043	37.4333	122.1708
PTBMAG	C 044	37.3958	122.2333
PTBMAG	C 045	37.4583	122.2958
PTBMAG	C 046	37.5042	122.3208
PTBMAG	C 047	37.5458	122.3667
PTBMAG	C 048	37.5958	122.4167
PTBMAG	C 049	37.6417	122.4542
PTBMAG	C 050	37.7167	122.4750
PTBMAG	0001	38.0375	119.1125
PTBMAG	0002	38.0833	119.0417
PTBMAG	0003	38.1292	118.8875
PTBMAG	0004	38.1750	118.7500
PTBMAG	0005	38.2083	118.6333
PTBMAG	0006	38.2833	118.6000
PTBMAG	0007	38.3375	118.4792
PTBMAG	0008	38.3208	118.4292
PTBMAG	0009	38.3417	118.3250
PTBMAG	0010	38.3542	118.2792
PTBMAG	0011	38.3833	118.2083
PTBMAG	0012	38.3625	118.1333
PTBMAG	0013	38.3333	118.0917
PTBMAG	0014	38.2333	118.1250
PTBMAG	0142	38.1292	118.2417
PTBMAG	0144	38.0250	118.2583
PTBMAG	0146	37.9375	118.3833
PTBMAG	0015	37.8292	118.4750
PTBMAG	0016	37.7417	118.4417
PTBMAG	0017	37.5875	118.3708
PTBMAG	0018	37.4458	118.3417
PTBMAG	0019	37.2958	118.3833
PTBMAG	0020	37.1979	118.3250
PTBMAG	0021	37.0959	118.2500

EAST BAY (HAYWARD FAULT)  
CENTRAL CA. (SAN ANDREAS FAULT)

CENTRAL CA. (SAN ANDREAS FAULT)  
OWENS VALLEY STATIONS

PTBMAG	0022	37.0000	118.2500
PTBMAG	0023	36.8458	118.2583
PTBMAG	0024	36.6750	118.1083
PTBMAG	0025	37.4667	118.5729
PTBMAG	0026	37.6125	118.8146
PTBMAG	0027	37.7375	118.9688
PTBMAG	0028	37.8708	119.0792
PTBMAG	C001	34.5333	118.7000
PTBMAG	C002	34.5333	118.7000
PTBMAG	C003	34.5333	118.7000
PTBMAG	C004	34.5333	118.7000
PTBMAG	C005	34.5333	118.7000
PTBMAG	C006	34.5333	118.7000
PTBMAG	C007	34.5333	118.7000
PTBMAG	C008	34.5333	118.7000
PTBMAG	C009	34.5333	118.7000
PTBMAG	C010	34.5333	118.7000
PTBMAG	C011	34.5333	118.7000
PTBMAG	C012	34.5333	118.7000
PTBMAG	C013	34.5333	118.7000
PTBMAG	C014	34.5333	118.7000
PTBMAG	C015	34.5333	118.7000
PTBMAG	C016	34.5333	118.7000
PTBMAG	C017	34.5333	118.7000
PTBMAG	C018	34.5333	118.7000

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