

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

Locations of Geophysical Monitoring Instruments and
Survey Points Operated in California and Alaska
Supported by the Earthquake Hazards Reduction Program

by

Thelma R. Rodriguez¹

U.S. Geological Survey

Open-File Report 85-38

This report is preliminary and has not been reviewed
for conformity with U.S. Geological Survey editorial standards.

¹Menlo Park, CA

**LOCATIONS OF GEOPHYSICAL MONITORING INSTRUMENTS AND SURVEY POINTS
OPERATED IN CALIFORNIA AND ALASKA
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Geophysical monitoring instruments operated by the U. S. Geological Survey and its contractors under the Earthquake Hazards Reduction program are compiled in this report. This open-file report provides information on the type, the location, the frequency of measurement and the principal investigators monitoring these sites. This report supersedes U. S. Geological Survey Open-file 81-955.

Each map is preceded by a table listing the principal scientists for each instrument system and the coordinates for each site. The coordinates were provided by each principal scientist for their particular sites. Katherine Breckenridge provided coordinates for many of the low-frequency instruments operated by the U.S.G.S.

The maps were compiled using a plotting program that maps the locations of instruments using a mercator conformal projection (written by E. Cranswick, U. S. Geological Survey). The digitization of the faults and the California borders were supplied by Frederick Lester (U. S. Geological Survey). All station coordinates are available on magnetic tape.

An updated supplement of this report will be made available periodically. New information should be sent to:

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C A L I F O R N I A I N D E X

Inst.	Principal Scientist	Affiliation	Abbreviation in Table	Page
Alignment Arrays				1
	Clarence Allen	Calif. Institute of Technology	CIT/ALLEN	
	John Galehouse	San Francisco State University	SFS/GLHS	
	Art Sylvester	U. C. Santa Barbara	UCSB/SYLVES	
	Beth Brown	U. S. Geological Survey	USGS/BROWN	
Creepmeters				4
	Sandra Schulz *	U. S. Geological Survey	USGS/MAVRO	
	Clarence Allen	Calif. Institute of Technology	CIT/ALLEN	
	Peter Leary	Univ. Southern California	USC/LEARY	
Dilatometers				6
	Malcolm Johnston	U. S. Geological Survey	USGS/JOHNST	
Dry Tilt				8
	Art Sylvester	U. C. Santa Barbara	UCSB/SYLVES	
Geochemical Monitoring- Wells				10
	Mark Shapiro	Calif. Institute of Technology	CIT/SHPRO	
	Leon Teng	Univ. Southern California	USC/TENG	
	Yu Chia Chung	Scripps Inst. of Oceanography	SCRPS/CHNG	
	Chi Yu King	U. S. Geological Survey	USGS/KING	
Gravity				12
	Robert Jachens	U. S. Geological Survey	USGS/JACHENS	
Level Lines				19
	Art Sylvester	U. C. Santa Barbara	UCSB/SYLVES	
	Ross Stein **	U. S. Geological Survey	USGS/THAT	
Magnetometers- Permanent				22
	Malcolm Johnston	U. S. Geological Survey	USGS/JOHNST	
Magnetometers- Survey				24
	Malcolm Johnston	U. S. Geological Survey	USGS/JOHNST	

* Sandra Schulz is now the Principal Scientist for this project.

** Ross Stein is now the Principal Scientist for this project.

Inst.	Principal Scientist	Affiliation	Abbreviation in Table	Page
Resistivity				27
	Ted Madden	Mass. Institute of Technology	MIT/MADDEN	
Seismometers				29
	So CA Co-op Net	U. S. Geological Survey and Calif. Institute of Technology	USGS/JHNSN CIT/JHNSN	
	Leon Teng	Univ. of Southern California	USC/TENG	
	Rick Lester	U. S. Geological Survey	USGS/LESTER	
	Rob Cockerham	U. S. Geological Survey	USGS/COCKER	
Strainmeters				41
	Malcolm Johnston	U. S. Geological Survey	USGS/JOHNST	
	Bruce Clark	Leighton and Associates	LA/CLARK	
	Peter Leary	Univ. of Southern California	USC/LEARY	
Tiltmeters				43
	Carl Mortensen	U. S. Geological Survey	USGS/MORTEN	
	Peter Leary	Univ. of Southern California	USC/LEARY	
	Sean Morrissey	St. Louis University	STLS/MORRIS	
Trilateration				45
	Will Prescott	U. S. Geological Survey	USGS/PRSCOT	
	Art Sylvester	U. C. Santa Barbara	UCSB/SYLVES	
Two-Color Laser				48
	John Langbein ***	U. S. Geological Survey	USGS/MCGARR	
Well Monitoring				50
	Don Lamar	Lamar-Merifield, Geologists	LAM/MERI	
	Chi Yu King	U. S. Geological Survey	USGS/KING	
	Tom Urban	U. S. Geological Survey	USGS/URBAN	
	Tom Henyey	Univ. of Southern California	USC/HENYEE	

*** John Langbein is now the Principal Scientist for the project.

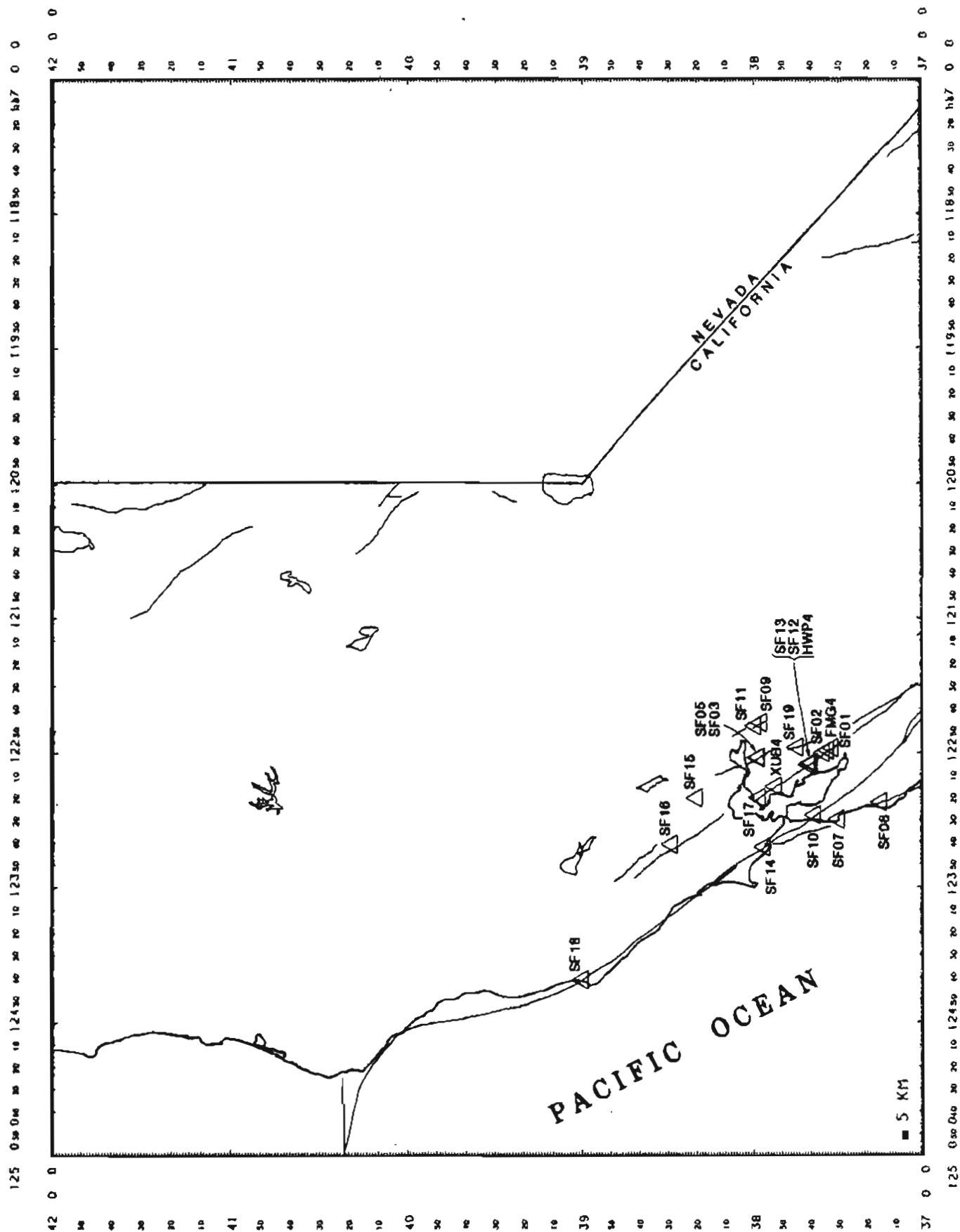
ALASKA INDEX

Inst.	Principal Scientist	Affiliation	Abbreviation in Table	Page
Level Lines				52
	Roger Bilham	Lamont-Doherty Geol. Obs.	LDGO/BILHAM	
Seismometers				54
	Robert Page	U. S. Geological Survey	USGS/PAGE	
	Carl Kisslinger	CIRES	CIRES/KIS	
Tide Gauges				52
	Roger Bilham	Lamont-Doherty Geol. Obs.	LDGO/BILHAM	
	Sean Morrissey	St. Louis University	STLS/MORRIS	
Tiltmeters				58
	Carl Mortensen	U. S. Geological Survey	USGS/MORTEN	
	Sean Morrissey	St. Louis University	STLS/MORRIS	
Trilateration				60
	Will Prescott	U. S. Geological Survey	USGS/PRESCT	

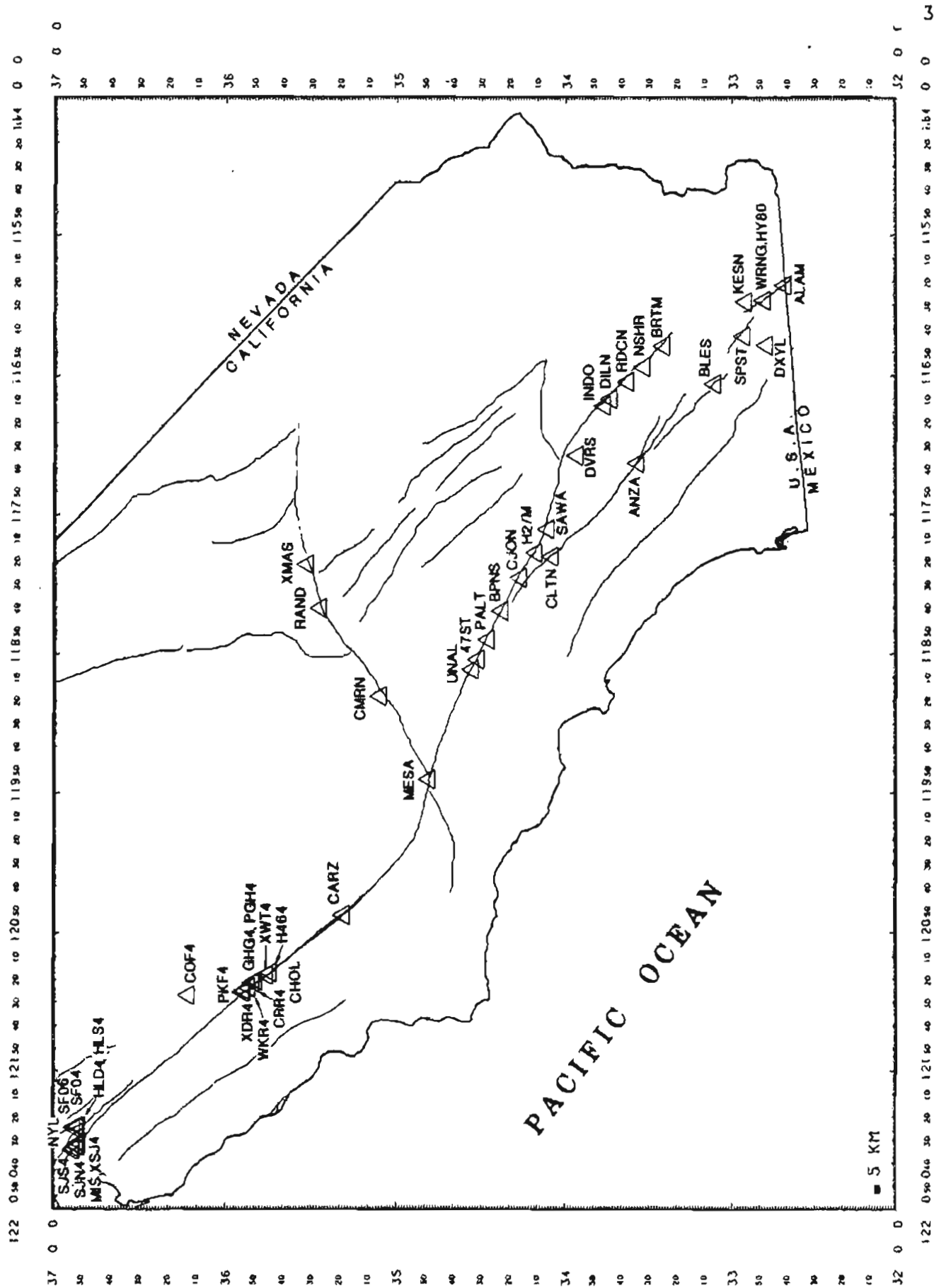
ALIGNMENT ARRAYS -CALIFORNIA

Alignment arrays are fault-crossing survey lines using monuments. They are designed to measure basic characteristics of horizontal fault slippage (creep) at intervals of 12-180 days and to guide emplacement of creepmeters.

ASRV.	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT
ALAM	32 40.62	115 21.48	180	ALL AMER CANA	CIT/ALLEN	ALIGNM
ANZA	33 34.02	116 37.80	180	ANZO	CIT/ALLEN	ALIGNM
BLES	23 25.18	116 03.60	180	BAILEYS WELL	CIT/ALLEN	ALIGNM
BOTM	33 24.72	115 47.52	180	BERTAM	CIT/ALLEN	ALIGNM
BRNO	34 22.68	117 41.40	180	BIG PINES	CIT/ALLEN	ALIGNM
CMEN	35 05.70	118 18.30	180	CAMERON	CIT/ALLEN	ALIGNM
CJOH	34 15.00	117 27.40	180	CAJON	CIT/ALLEN	ALIGNM
XMAS	35 31.50	117 21.72	180	CHRISTMAS	CIT/ALLEN	ALIGNM
CLTB	34 01.80	117 18.30	180	COLTON	CIT/ALLEN	ALIGNM
DVRS	33 55.00	116 34.62	180	DEVERS HILL	CIT/ALLEN	ALIGNM
DILN	33 43.68	116 10.20	180	DILLON ROAD	CIT/ALLEN	ALIGNM
DXYL	32 47.40	115 47.22	180	DIXIELAND	CIT/ALLEN	ALIGNM
HYER	32 40.10	115 28.02	180	HIGHWAY 80	CIT/ALLEN	ALIGNM
INDO	33 45.02	116 13.02	180	INDIO HILLS	CIT/ALLEN	ALIGNM
KECN	32 54.90	115 28.68	180	KEYSTONE ROAD	CIT/ALLEN	ALIGNM
NSHR	33 31.60	115 56.40	180	NORTH SHORE	CIT/ALLEN	ALIGNM
PALT	34 27.40	117 53.80	180	PALLET CREEK	CIT/ALLEN	ALIGNM
RAND	35 26.82	117 40.38	180	RAND	CIT/ALLEN	ALIGNM
ROCK	33 37.62	116 02.80	180	RED CANYON	CIT/ALLEN	ALIGNM
SANA	34 25.18	117 06.42	180	SANTA ANA WAS	CIT/ALLEN	ALIGNM
SPST	32 53.62	115 43.32	180	SUPERSTITION	CIT/ALLEN	ALIGNM
UNAL	34 03.12	118 06.78	180	UNA LAKE	CIT/ALLEN	ALIGNM
H2/H	34 10.50	117 16.62	180	WATERMAN CANY	CIT/ALLEN	ALIGNM
WRNG	32 40.18	115 28.02	180	WORTHINGTON R	CIT/ALLEN	ALIGNM
SF01	37 02.52	121 57.66	60	ROCKETT DRIVE	SFS/GLHS	ALIGNM
SF02	37 33.52	122 03.06	60	APPIAN WAY	SFS/GLHS	ALIGNM
SF03	37 59.32	122 02.04	60	ASHBURY DRIVE	SFS/GLHS	ALIGNM
SF04	36 50.94	121 24.30	180	SEVENTH STR	SFS/GLHS	ALIGNM
SF05	37 53.62	122 02.22	60	SALVIO STREET	SFS/GLHS	ALIGNM
SF06	36 52.20	121 24.72	180	WRIGHT ROAD	SFS/GLHS	ALIGNM
SF07	37 30.24	122 29.76	90	WEST POINT AV	SFS/GLHS	ALIGNM
SF08	37 15.24	122 22.20	90	PESCADERO RD	SFS/GLHS	ALIGNM
SF09	37 57.62	121 46.62	90	DEER VALLEY	SFS/GLHS	ALIGNM
SF10	37 33.58	122 27.78	90	DUHOLLOW WAY	SFS/GLHS	ALIGNM
SF11	37 59.64	121 48.06	90	WORRELL RD	SFS/GLHS	ALIGNM
SF12	37 40.20	122 04.80	60	D STREET	SFS/GLHS	ALIGNM
SF13	37 40.80	122 05.40	60	ROSE STREET	SFS/GLHS	ALIGNM
SF14	37 56.39	122 42.22	90	HORSESHOE HILL	SFS/GLHS	ALIGNM
SF15	38 20.16	122 20.34	60	LINDA VISTA A	SFS/GLHS	ALIGNM
SF16	38 29.86	122 41.10	90	NEILSON RD	SFS/GLHS	ALIGNM
SF17	37 58.14	122 20.22	60	CONTRA COSTA	SFS/GLHS	ALIGNM
SF18	38 59.94	123 41.28	180	ALDER CREEK	SFS/GLHS	ALIGNM
SF19	37 44.74	121 57.60	90	COREY PLACE	SFS/GLHS	ALIGNM
MESA	34 40.46	118 54.20	12	MESA VALLEY	UCSB/SYLVES	ALIGNM
47ST	34 31.03	118 02.46	12	47TH ST E	UCSB/SYLVES	ALIGNM
XUE4	37 52.40	122 15.10	120	BERKELEY UC	USGS/BROWN	ALIGNM
HWP4	37 39.80	122 04.50	120	HAYWARD-PALIS	USGS/BROWN	ALIGNM
FMG4	37 34.00	121 58.90	120	FREMONT-GILB	USGS/BROWN	ALIGNM
HLS4	36 51.10	121 24.20	120	HOLLISTER-7THST	USGS/BROWN	ALIGNM
HL04	36 50.50	121 24.20	120	HOLLISTER-D ST	USGS/BROWN	ALIGNM
SJS4	36 52.60	121 34.40	120	SJB-SEARLE RD	USGS/BROWN	ALIGNM
SJN4	36 51.30	121 32.70	120	SJB-NYLAND RNC	USGS/BROWN	ALIGNM
XSJ4	36 50.20	121 31.20	120	SJB-MISSION VINE	USGS/BROWN	ALIGNM
PKF4	35 53.70	120 26.00	120	PARKFIELD BRG	USGS/BROWN	ALIGNM
XDR4	35 53.10	120 25.30	120	DURHAM RANCH	USGS/BROWN	ALIGNM
WKP4	35 51.60	120 23.80	120	WORK RNC-PEACK	USGS/BROWN	ALIGNM
CRR4	35 50.10	120 21.80	120	CARR HILL	USGS/BROWN	ALIGNM
GHG4	35 49.20	120 20.90	120	GOLD HILL-GILMAN	USGS/BROWN	ALIGNM
PGH4	35 49.20	120 20.90	120	GOLD HILL-PHIL	USGS/BROWN	ALIGNM
XWT4	35 45.40	120 18.40	120	WATER TANK	USGS/BROWN	ALIGNM
H464	35 44.10	120 17.30	120	HWY 46-GILMAN	USGS/BROWN	ALIGNM
COF4	36 12.80	120 27.20	120	COALINGA-FLOODPL	USGS/BROWN	ALIGNM



ALIGNMENT

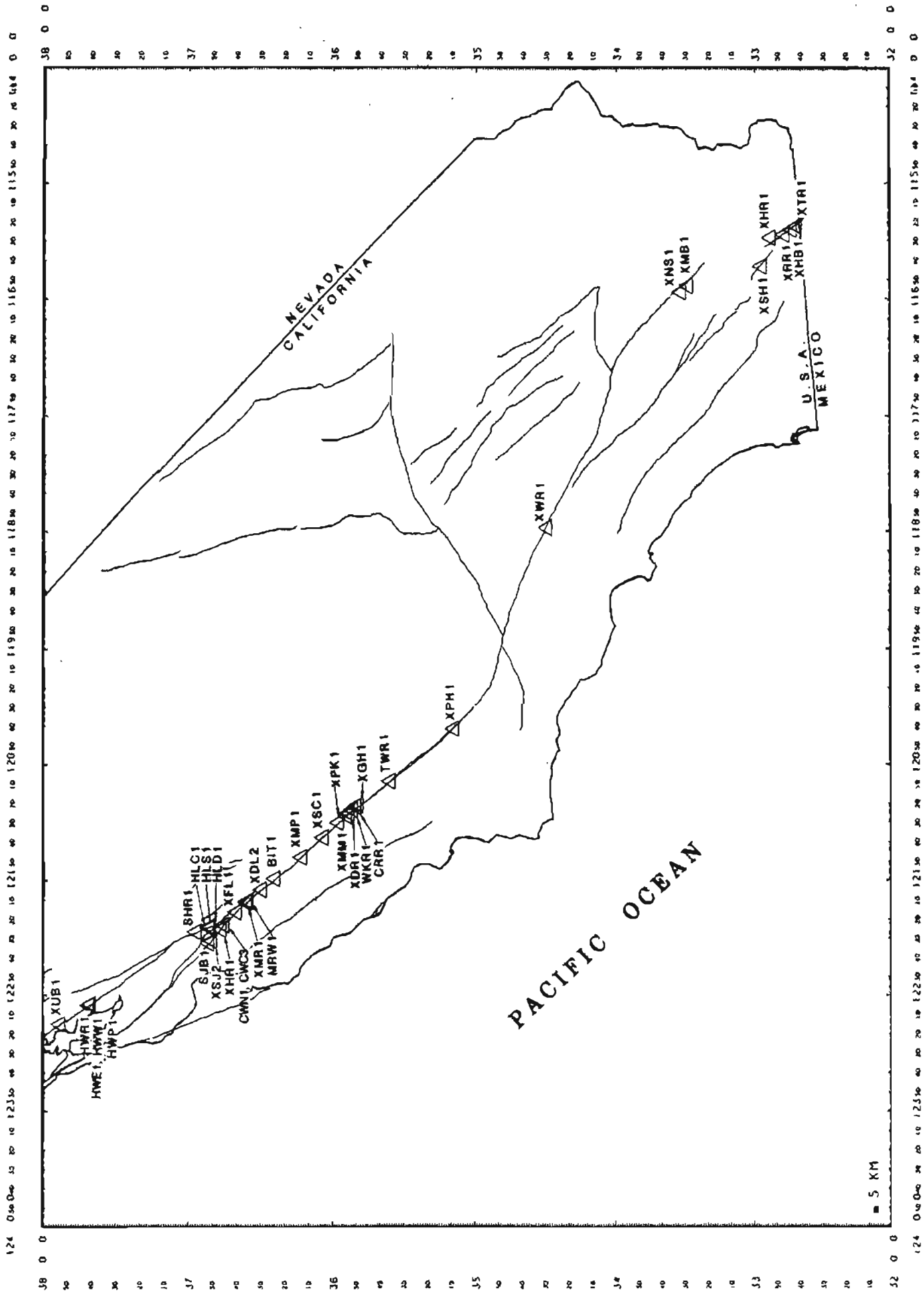


ALIGNMENT

CREEPMETERS -CALIFORNIA

The creepmeters are 18-28 meter long wires stretched through buried tubes crossing faults at angles of 22-45 degrees. Data are recorded in the field, and in some cases, are telemetered.

ABRV	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT
BIT1	36 23.98	128 58.98		CON BITTERWATER	USGS/MAVKO	CREEP
CRR1	35 58.18	128 21.88		CON CARR RANCH	USGS/MAVKO	CREEP
CWC3	36 45.88	121 23.18		CON CIENEGA CENTR	USGS/MAVKO	CREEP
CWN1	36 45.88	121 23.18		CON CIENEGA NORTH	USGS/MAVKO	CREEP
HLC1	36 51.48	121 24.38		CON HOLL. CENT AV	USGS/MAVKO	CREEP
HLD1	36 58.58	121 24.28		98 HOLL. D STR	USGS/MAVKO	CREEP
HLS1	36 51.18	121 24.28		98 HOLL. 7TH ST	USGS/MAVKO	CREEP
HWE1	37 48.28	122 84.88		98 HAY. D ST E	USGS/MAVKO	CREEP
HWP1	37 39.88	122 84.58		98 HAY. PSADE ST	USGS/MAVKO	CREEP
HWR1	37 48.88	122 85.48		98 HAY. ROSE ST	USGS/MAVKO	CREEP
HWV1	37 48.28	122 84.88		98 HAY. D ST W	USGS/MAVKO	CREEP
MRW1	36 35.18	121 18.68		98 MELENDY WINDM	USGS/MAVKO	CREEP
SHR1	36 56.68	121 26.78		CON SHORE RD	USGS/MAVKO	CREEP
SJB1	36 51.38	121 32.78		98 NYLAND	USGS/MAVKO	CREEP
TWR1	35 35.88	128 88.88		CON TWISSELMAN RAN	USGS/MAVKO	CREEP
XDL2	36 29.58	121 84.78		98 DRY LAKE LONG	USGS/MAVKO	CREEP
XDR1	35 53.88	128 25.28		CON DURHAM RANCH	USGS/MAVKO	CREEP
XFL1	36 39.98	121 16.38		CON FRANK LEWIS L	USGS/MAVKO	CREEP
XGH1	35 49.28	128 28.98		CON GOLD HILL	USGS/MAVKO	CREEP
XHR1	36 46.38	121 25.38		CON HARRIS	USGS/MAVKO	CREEP
WKR1	35 51.58	128 23.58		CON WORK RANCH	USGS/MAVKO	CREEP
XMM1	35 57.58	128 38.18		CON MIDDLE MTN	USGS/MAVKO	CREEP
XMP1	36 12.88	128 47.98		98 MONARCH PK	USGS/MAVKO	CREEP
XMR1	36 35.78	121 11.28		CON MELENDY RANCH	USGS/MAVKO	CREEP
XPH1	35 88.98	119 41.58		CON PANORAMA HILL	USGS/MAVKO	CREEP
XPK1	35 54.18	128 26.58		CON PARKFIELD	USGS/MAVKO	CREEP
XSC1	36 83.98	128 37.78		CON SLACK CANYON	USGS/MAVKO	CREEP
XSJ2	36 58.28	121 31.28		CON SAN JUAN BAUT	USGS/MAVKO	CREEP
XUB1	37 52.48	122 15.18		CON BERKELEY	USGS/MAVKO	CREEP
XWR1	34 29.68	117 58.28		CON WEBB RANCH	USC/LEARY	CREEP
XSH1	32 56.82	115 43.32		98 SUPERSTITION HLS	CIT/ALLEN	CREEP
XHR1	32 52.98	115 28.58		CON HARRIS ROAD	CIT/ALLEN	CREEP
XRR1	32 46.92	115 26.88		CON ROSS ROAD	CIT/ALLEN	CREEP
XHB1	32 43.88	115 24.38		CON HEBER ROAD	CIT/ALLEN	CREEP
XTR1	32 41.58	115 22.58		CON TUTTLE RANCH	CIT/ALLEN	CREEP
XNS1	33 31.98	115 56.46		98 NORTH SHORE	CIT/ALLEN	CREEP
XMB1	33 28.98	115 53.48		CON MECCA BEACH	CIT/ALLEN	CREEP

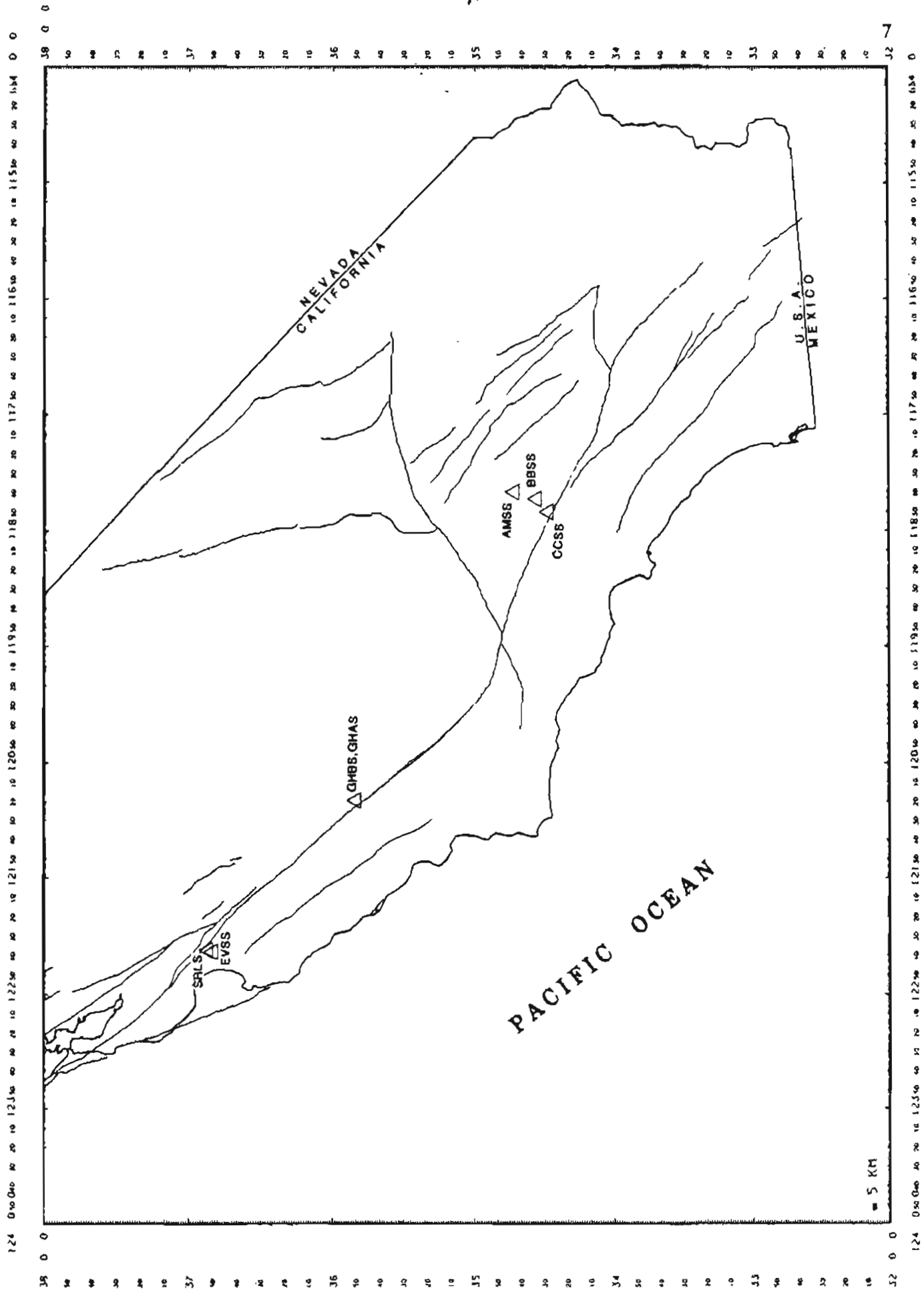


CREEF METERS

DILATOMETERS -CALIFORNIA

The USGS (Johnston) dilatometers are borehole volumetric strainmeters which are sampled at 15 minute intervals.

ABRV	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT
AMSS	34 43.25	117 39.93		CON ADOBE MTN	USGS/JOHNST	DILAT
BBSS	34 33.67	117 43.45		CON BLACK BUTTE	USGS/JOHNST	DILAT
CCSS	34 28.58	117 58.25		CON CRYSTALLAIRE	USGS/JOHNST	DILAT
EVSS	36 49.83	121 38.08		CON ECHO VALLEY	USGS/JOHNST	DILAT
GHAS	35 49.95	120 19.73		CON GOLD HILL	USGS/JOHNST	DILAT
GHBS	35 49.95	120 19.73		CON GOLD HILL	USGS/JOHNST	DILAT
SRLS	36 51.93	121 37.25		CON SEARLE RD	USGS/JOHNST	DILAT

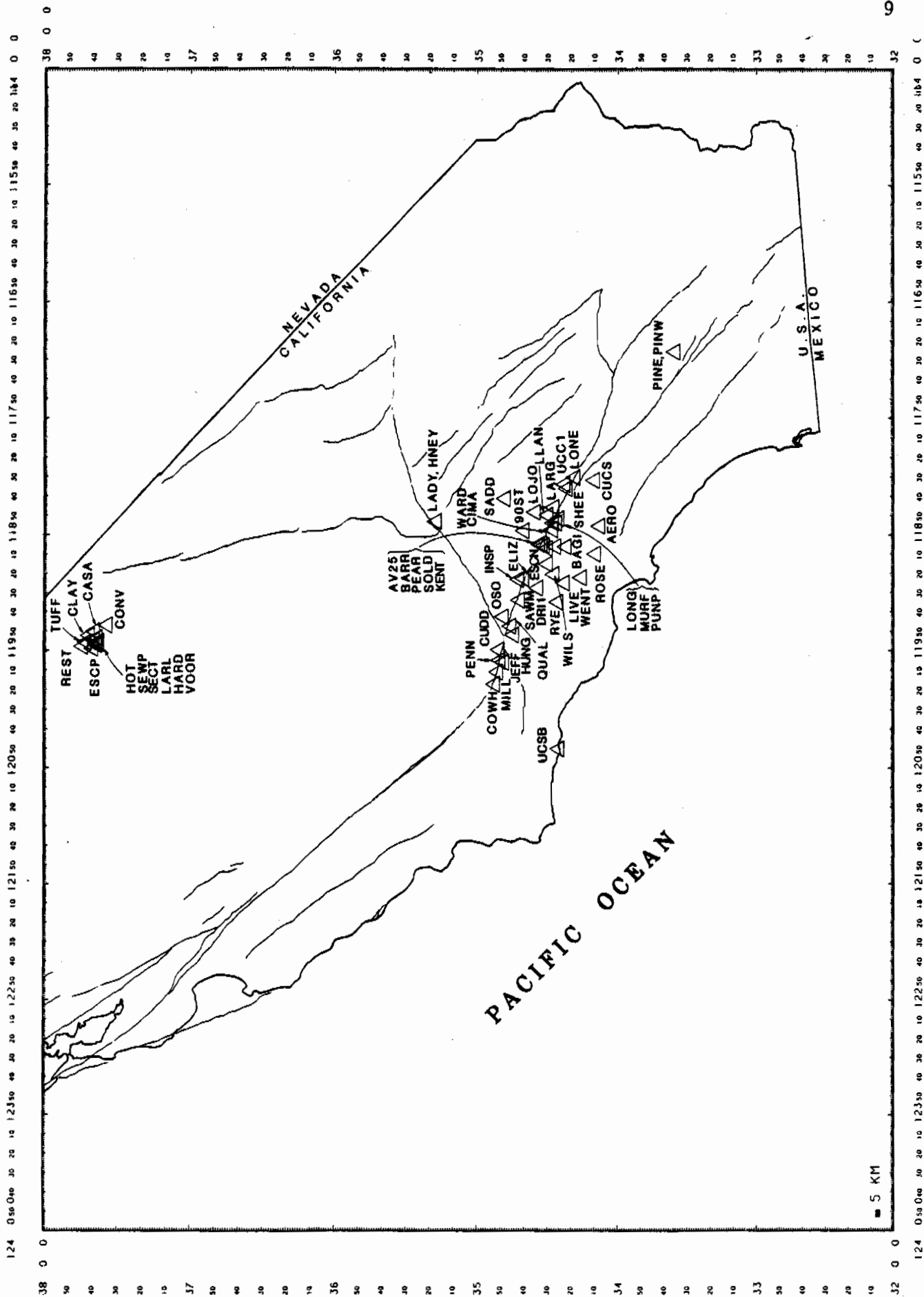


DILATOMETERS

DRY TILT ARRAYS -CALIFORNIA

The dry tilt arrays are small aperture clusters of 3-6 benchmarks surveyed to search for anomalous tilts.

ABRV	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT
UCSB	34 24.90	119 50.17	6 MO	UCSB	UCSB/SYLVES	DRY TLT
JEFF	34 48.43	119 06.13	12	JEFFREY PINE	UCSB/SYLVES	DRY TLT
CUDD	34 50.42	118 59.85	12	CUDDY FLAT	UCSB/SYLVES	DRY TLT
HUNG	34 44.25	118 52.08	12	HUNGRY VALLEY	UCSB/SYLVES	DRY TLT
OSO	34 48.73	118 42.83	12	OSO PUMP STA	UCSB/SYLVES	DRY TLT
SAWM	34 41.87	118 34.13	12	SAWMILL	UCSB/SYLVES	DRY TLT
RYE	34 25.50	118 35.13	12	RYE CANYON RD	UCSB/SYLVES	DRY TLT
DR11	34 34.10	118 27.82	12	DRINKWATER FLAT	UCSB/SYLVES	DRY TLT
INSP	34 42.20	118 23.37	12	INDIAN SPRINGS	UCSB/SYLVES	DRY TLT
ELIZ	34 40.05	118 22.90	12	ELIZABETH LAKE	UCSB/SYLVES	DRY TLT
LIVE	34 22.75	118 25.10	12	LIVE OAK	UCSB/SYLVES	DRY TLT
WENT	34 15.48	118 22.37	12	WENTWORTH	UCSB/SYLVES	DRY TLT
ESCN	34 30.00	118 15.33	12	ESCONDIDO	UCSB/SYLVES	DRY TLT
ROSE	34 09.42	118 10.00	12	ROSE BOWL	UCSB/SYLVES	DRY TLT
AV25	34 33.35	118 05.07	12	AVE 25 E.	UCSB/SYLVES	DRY TLT
PEAR	34 31.35	118 05.75	12	PEARBLOS CUTOFF	UCSB/SYLVES	DRY TLT
SOLD	34 29.98	118 07.13	12	SOLEDAD PASS	UCSB/SYLVES	DRY TLT
90ST	34 39.96	117 58.00	12	90TH ST E.	UCSB/SYLVES	DRY TLT
LONG	34 27.38	117 54.03	12	LONGVIEW	UCSB/SYLVES	DRY TLT
AERO	34 07.63	117 55.63	12	AEROJET	UCSB/SYLVES	DRY TLT
SADD	34 40.00	117 41.50	12	SADDELEBACK BUTTE	UCSB/SYLVES	DRY TLT
LARG	34 27.22	117 45.92	12	LARGO VISTA	UCSB/SYLVES	DRY TLT
UCCI	34 22.60	117 34.10	12	UPPER CAJON CRK	UCSB/SYLVES	DRY TLT
CUCS	34 09.95	117 32.00	12	CUCAMONGA S	UCSB/SYLVES	DRY TLT
CIMA	34 27.83	117 57.50	12	CIMA MESA	UCSB/SYLVES	DRY TLT
MURF	34 26.05	117 54.00	12	MURPHY LANE	UCSB/SYLVES	DRY TLT
PUNP	34 25.12	117 51.83	12	PUNCHBOWL PARK	UCSB/SYLVES	DRY TLT
WARD	34 27.85	117 57.50	12	WABM WARD	UCSB/SYLVES	DRY TLT
WILS	34 27.18	118 20.63	12	WILSON CANYON	UCSB/SYLVES	DRY TLT
BARR	34 32.27	118 04.97	12	BARREL SPRINGS	UCSB/SYLVES	DRY TLT
LLAN	34 29.83	117 50.00	12	LLANO	UCSB/SYLVES	DRY TLT
LONE	34 18.32	117 30.48	12	LONE TREE	UCSB/SYLVES	DRY TLT
LOJO	34 35.18	117 40.40	12	LOVEJOY	UCSB/SYLVES	DRY TLT
SHEE	34 21.60	117 36.22	12	SHEEP CREEK	UCSB/SYLVES	DRY TLT
LADY	35 17.22	117 53.40	12	OLD LADY	UCSB/SYLVES	DRY TLT
HNEY	35 17.10	117 53.28	12	HONEYCUP	UCSB/SYLVES	DRY TLT
KENT	34 26.40	118 06.12	12	KENTUCKY SPRINGS	UCSB/SYLVES	DRY TLT
COWH	34 52.30	119 17.25	12	COWHEAD POTRERO	UCSB/SYLVES	DRY TLT
MILL	34 51.00	119 11.12	12	MILL POTRERO	UCSB/SYLVES	DRY TLT
PENN	34 50.07	119 05.23	12	PENNY PINES	UCSB/SYLVES	DRY TLT
QUAL	34 45.48	118 47.60	12	QUAIL	UCSB/SYLVES	DRY TLT
BAGI	34 22.00	118 06.32	12	BAUGHMAN SPRINGS	UCSB/SYLVES	DRY TLT
PINE	33 35.00	116 26.00	12	PINON FLAT E	UCSB/SYLVES	DRY TLT
PINW	33 35.00	116 26.00	12	PINON FLAT W	UCSB/SYLVES	DRY TLT
SECT	37 38.14	118 57.11	3	SECTION CORNER	UCSB/SYLVES	DRY TLT
VOOR	37 37.30	118 56.40	3	VOORHIS	UCSB/SYLVES	DRY TLT
HARD	37 37.38	118 55.53	3	HARDING	UCSB/SYLVES	DRY TLT
SEWP	37 38.26	118 56.15	3	SEWAGE PLANT	UCSB/SYLVES	DRY TLT
HOT	37 39.02	118 50.21	3	HOT CREEK	UCSB/SYLVES	DRY TLT
LARL	37 37.99	118 53.63	3	LAUREL CANYON	UCSB/SYLVES	DRY TLT
CLAY	37 41.14	118 52.47	3	CLAY PIT	UCSB/SYLVES	DRY TLT
CASA	37 39.13	118 55.00	3	CASA DIABLO	UCSB/SYLVES	DRY TLT
TUFF	37 42.39	118 55.89	3	TUFF LUCK	UCSB/SYLVES	DRY TLT
REST	37 43.88	118 58.02	3	REST AREA	UCSB/SYLVES	DRY TLT
ESCP	37 39.72	118 59.07	3	ESCAPE ROUTE	UCSB/SYLVES	DRY TLT
CONV	37 33.83	118 47.07	3	CONVICT	UCSB/SYLVES	DRY TLT

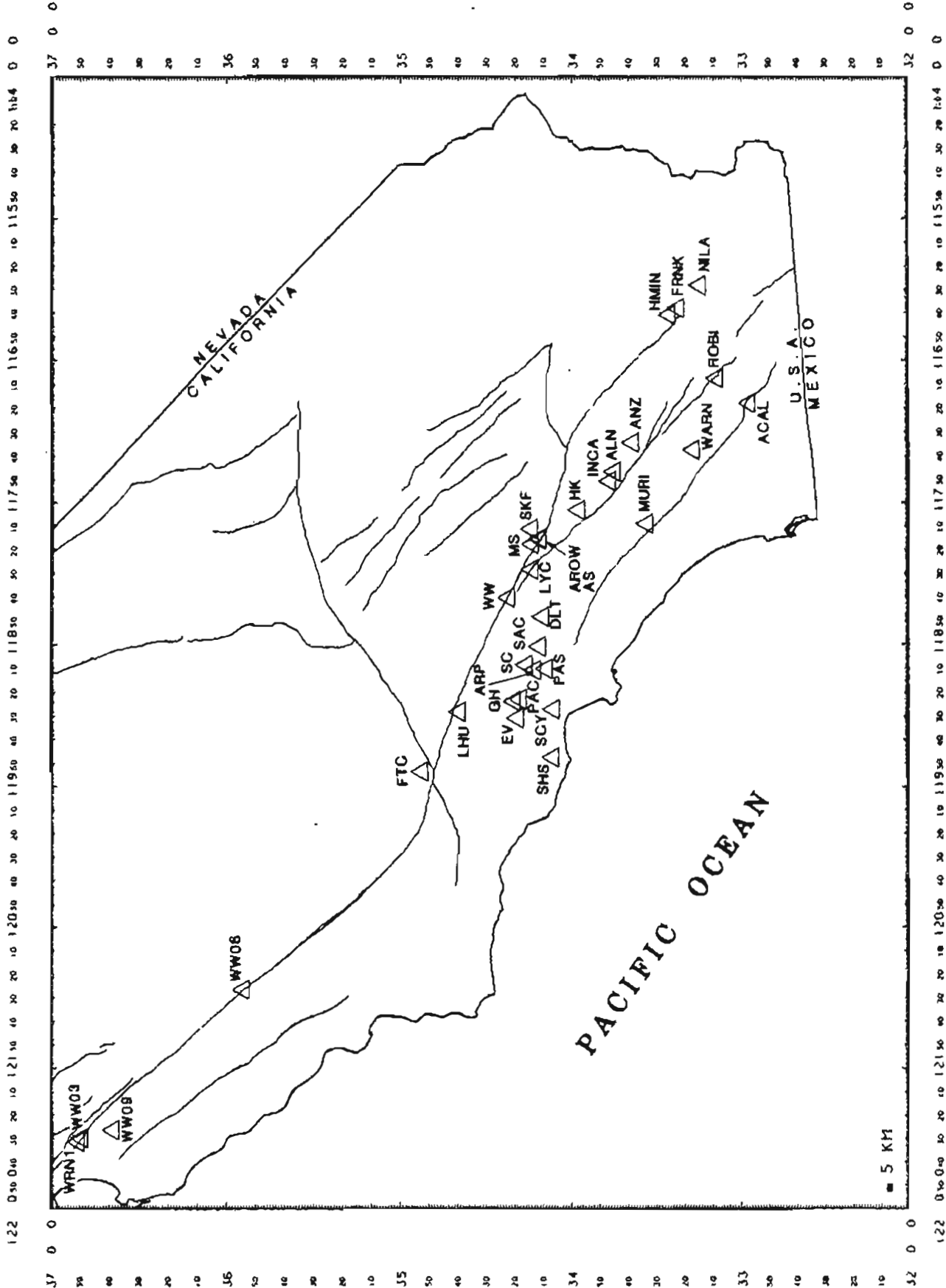


DRY TILT

GEOCHEMICAL MONITORING -CALIFORNIA

Radon gas emanating from water wells (WRn) and springs (SpRn) is monitored by several different techniques. Most sites are sampled with the water taken back to the laboratory for counting. Sampling intervals are 2 weeks to one month. Continuous monitoring of radon is conducted at several sites, in some cases, in conjunction with water temperature, water level and other relevant measurements.

ABRV	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT
PAS	34 08.94	118 10.32	CON	KRESGE	CIT/SHPRO	WRn
DLT	34 10.26	117 48.54	CON	BIG DLT CAN D	CIT/SHPRO	WRn
SCY	34 06.36	118 27.24	CON	STN CAN RESER	CIT/SHPRO	WRn
LYC	34 13.98	117 28.68	CON	LYTLE CRK RS	CIT/SHPRO	WRn
SAC	34 11.34	118 01.02	CON	STA ANITA CAN	CIT/SHPRO	WRn
PAC	34 20.10	118 23.82	CON	PACOIMA DM	CIT/SHPRO	WRn
LHU	34 39.42	118 28.44	CON	LX HUGHES FOR	CIT/SHPRO	WRn
FTC	34 52.50	118 53.64	CON	FT TEJON SHP	CIT/SHPRO	WRn
SKF	34 14.16	117 11.40	CON	SKY FOREST GS	CIT/SHPRO	WRn
ALN	33 45.00	116 46.92	CON	ALANDALE	CIT/SHPRO	WRn
ANZ	33 38.46	116 34.62	CON	ANZA	CIT/SHPRO	WRn
GH	34 10.00	118 23.00	07	GLEN HAVEN	USC/TENG	WRn
EV	34 19.00	118 31.00	07	ETERNAL VALLEY	USC/TENG	WRn
ARP	34 13.00	118 11.00	07	ARP	USC/TENG	WRn
SC	34 15.95	118 08.80	07	SWITZER CAMP	USC/TENG	WRn
AS	34 11.10	117 15.50	CON	ARROWHEAD HOT	USC/TENG	WRn
VW	34 22.20	117 40.60	07	WRIGHTWOOD WTR	USC/TENG	WRn
MS	34 13.00	117 17.80	07	MORMON SPRING	USC/TENG	WRn
SHS	34 06.45	118 47.45	CON	SEMINOLE HOT	USC/TENG	WRn
HK	33 57.55	117 03.35	CON	HASKELL RANCH	USC/TENG	WRn
ROBI	33 08.64	116 07.92	15	ROBISONS WELL	SCRPS/CHNG	WRn
HMIN	33 25.56	115 41.16	15	HOT MINERAL	SCRPS/CHNG	WRn
NILA	33 14.76	118 28.56	30	NILAND SLAB	SCRPS/CHNG	WRn
WRN1	36 50.40	121 31.60	CON	MISSION FARM	USGS/KING	WRn
WW03	36 49.20	121 29.90	CON	ST. FRAN RETR	USGS/KING	WRn
WW06	36 53.97	120 26.54	CON	PARKFIELD	USGS/KING	WRn
WW09	36 38.55	121 26.40	CON	LIMEKILN A	USGS/KING	WRn
MURI	33 33.54	117 09.10	30	MURRIETA HOT	SCRPS/CHNG	SpRn
WARN	33 17.04	116 37.86	30	WARNER HOT	SCRPS/CHNG	SpRn
ACAL	32 56.94	116 18.18	30	AGUA CALIENTE	SCRPS/CHNG	SpRn
INCA	33 46.68	116 50.88	30	INDIAN CANYON	SCRPS/CHNG	SpRn
AROW	34 11.22	117 15.84	15	ARROWHEAD SPG	SCRPS/CHNG	SpRn
FRNK	33 22.44	116 38.28	15	FRINK SPRING	SCRPS/CHNG	SpRn



GEOCHEM MONITORING IN WELLS

GRAVITY NETWORK -CALIFORNIA

Stations of a network for monitoring temporal gravity variations. Network was first measured during the Fall 1976, and partially remeasured twice yearly since that time. Primary reference station for the network is located at Riverside.

ABRV.	LAT.	LONG.	NAME	INST/PI	INSTRUMENT
BB1	34 17.94	117 27.35	KELLER PEAK	USGS/JACHENS	GRAVITY
BB10	34 13.78	117 09.92		USGS/JACHENS	GRAVITY
BB11	34 13.89	117 08.51		USGS/JACHENS	GRAVITY
BB12	34 12.65	117 04.95		USGS/JACHENS	GRAVITY
BB13	34 13.78	117 03.44		USGS/JACHENS	GRAVITY
BB14	34 13.10	117 01.61		USGS/JACHENS	GRAVITY
BB15	34 15.01	117 00.16		USGS/JACHENS	GRAVITY
BB16	34 14.79	116 58.27		USGS/JACHENS	GRAVITY
BB17	34 15.80	116 55.94		USGS/JACHENS	GRAVITY
BB18	34 16.44	116 49.87		USGS/JACHENS	GRAVITY
BB19	34 17.46	116 48.08		USGS/JACHENS	GRAVITY
BB2	34 20.04	117 23.86		USGS/JACHENS	GRAVITY
BB20	34 19.26	116 49.03		USGS/JACHENS	GRAVITY
BB21	34 20.69	116 50.48		USGS/JACHENS	GRAVITY
BB22	34 22.14	116 51.49		USGS/JACHENS	GRAVITY
BB23	34 23.26	116 52.72		USGS/JACHENS	GRAVITY
BB24	34 25.57	116 55.50		USGS/JACHENS	GRAVITY
BB3	34 19.13	117 22.54		USGS/JACHENS	GRAVITY
BB4	34 17.81	117 20.13		USGS/JACHENS	GRAVITY
BB5	34 16.46	117 19.37		USGS/JACHENS	GRAVITY
BB6	34 14.82	117 17.99		USGS/JACHENS	GRAVITY
BB7	34 14.07	117 16.57		USGS/JACHENS	GRAVITY
BB8	34 13.44	117 14.31		USGS/JACHENS	GRAVITY
BB9	34 13.87	117 12.38		USGS/JACHENS	GRAVITY
CA1	34 49.60	118 42.41		USGS/JACHENS	GRAVITY
CA100	34 44.17	118 28.45		USGS/JACHENS	GRAVITY
CA101	34 44.17	118 28.45		USGS/JACHENS	GRAVITY
CA112-3	34 37.26	118 13.96		USGS/JACHENS	GRAVITY
CA118	34 43.47	118 26.50		USGS/JACHENS	GRAVITY
CA123-18	34 31.48	118 56.39		USGS/JACHENS	GRAVITY
CA143	34 42.13	118 24.98		USGS/JACHENS	GRAVITY
CA159	34 41.32	118 23.08		USGS/JACHENS	GRAVITY
CA176B	34 40.43	118 21.24		USGS/JACHENS	GRAVITY
CA188	34 39.77	118 19.77		USGS/JACHENS	GRAVITY
CA20	34 48.49	118 39.60		USGS/JACHENS	GRAVITY
CA204	34 38.78	118 17.26		USGS/JACHENS	GRAVITY
CA222	34 37.51	118 15.17		USGS/JACHENS	GRAVITY
CA230	34 37.25	118 13.96		USGS/JACHENS	GRAVITY
CA241	34 36.40	118 12.16		USGS/JACHENS	GRAVITY
CA274	34 35.00	118 10.65		USGS/JACHENS	GRAVITY
CA293	34 33.49	118 08.78		USGS/JACHENS	GRAVITY
CA294	34 33.49	118 08.78		USGS/JACHENS	GRAVITY
CA314	34 32.40	118 06.86		USGS/JACHENS	GRAVITY
CA315	34 32.40	118 06.86		USGS/JACHENS	GRAVITY
CA327	34 32.12	118 05.04		USGS/JACHENS	GRAVITY
CA343	34 31.83	118 02.67		USGS/JACHENS	GRAVITY
CA346	34 31.83	118 02.67		USGS/JACHENS	GRAVITY
CA359	34 31.35	118 00.72		USGS/JACHENS	GRAVITY
CA373	34 30.90	117 58.97		USGS/JACHENS	GRAVITY
CA374	34 30.90	117 58.97		USGS/JACHENS	GRAVITY
CA392	34 31.48	117 56.39		USGS/JACHENS	GRAVITY
CA393	34 31.48	117 56.39		USGS/JACHENS	GRAVITY
CA414	34 29.52	117 54.99		USGS/JACHENS	GRAVITY
CA426	34 28.90	117 52.99		USGS/JACHENS	GRAVITY
CA427	34 28.90	117 52.99		USGS/JACHENS	GRAVITY
CA446	34 28.71	117 50.02		USGS/JACHENS	GRAVITY
CA46	34 47.31	118 36.51		USGS/JACHENS	GRAVITY
CA463	34 28.92	117 47.96		USGS/JACHENS	GRAVITY
CA475	34 29.55	117 45.86		USGS/JACHENS	GRAVITY
CA476	34 29.55	117 45.86		USGS/JACHENS	GRAVITY
CA489	34 29.00	117 43.00		USGS/JACHENS	GRAVITY

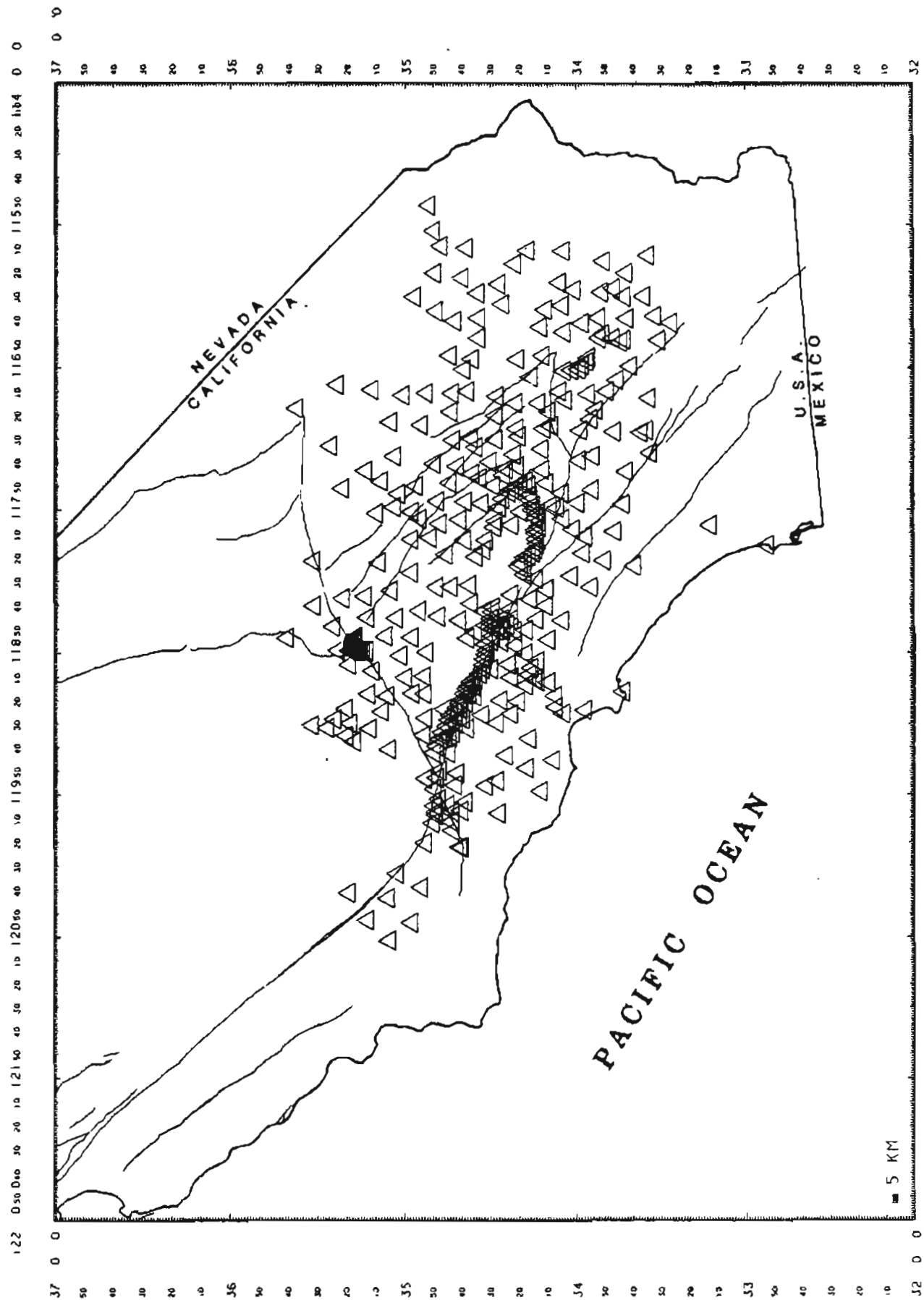
ABRV.	LAT.	LONG.	NAME	INST/PI	INSTRUMENT
CA498	34 29.88	117 41.88		USGS/JACHENS	GRAVITY
CA68	34 46.49	118 33.63		USGS/JACHENS	GRAVITY
CA84	34 45.83	118 31.85		USGS/JACHENS	GRAVITY
CH328	33 56.68	118 24.12		USGS/JACHENS	GRAVITY
DOR23-77	35 18.88	117 59.13		USGS/JACHENS	GRAVITY
DOR24-77	35 18.14	117 59.11		USGS/JACHENS	GRAVITY
DOR25-77	35 17.64	117 59.11		USGS/JACHENS	GRAVITY
DOR26-77	35 17.22	117 59.11		USGS/JACHENS	GRAVITY
DOR27-77	35 16.59	117 59.89		USGS/JACHENS	GRAVITY
DOR28-77	35 16.58	117 59.89		USGS/JACHENS	GRAVITY
DOR29-77	35 16.48	117 59.89		USGS/JACHENS	GRAVITY
DOR30-77	35 16.38	117 59.89		USGS/JACHENS	GRAVITY
DOR31-77	35 16.19	117 59.89		USGS/JACHENS	GRAVITY
DOR32-77	35 16.88	117 59.89		USGS/JACHENS	GRAVITY
DOR33-77	35 15.98	117 59.89		USGS/JACHENS	GRAVITY
DOR34-77	35 15.85	117 59.89		USGS/JACHENS	GRAVITY
DOR35-77	35 15.64	117 59.11		USGS/JACHENS	GRAVITY
DOR36-77	35 15.85	117 59.89		USGS/JACHENS	GRAVITY
DOR37-77	35 14.26	117 59.11		USGS/JACHENS	GRAVITY
DOR38-77	35 13.82	117 59.11		USGS/JACHENS	GRAVITY
DOR39-77	35 17.22	117 58.34		USGS/JACHENS	GRAVITY
DOR40-77	35 17.24	117 57.79		USGS/JACHENS	GRAVITY
DOR41-77	35 17.21	117 57.69		USGS/JACHENS	GRAVITY
DOR42-77	35 17.22	117 56.96		USGS/JACHENS	GRAVITY
DOR43-77	35 17.22	117 56.18		USGS/JACHENS	GRAVITY
DOR44-77	35 17.21	117 55.45		USGS/JACHENS	GRAVITY
DOR45-77	35 17.21	117 55.48		USGS/JACHENS	GRAVITY
DOR46-77	35 17.21	117 55.37		USGS/JACHENS	GRAVITY
DOR47-77	35 17.21	117 55.34		USGS/JACHENS	GRAVITY
DOR48-77	35 17.21	117 55.31		USGS/JACHENS	GRAVITY
DOR49-77	35 17.21	117 55.29		USGS/JACHENS	GRAVITY
DOR50-77	35 17.21	117 55.26		USGS/JACHENS	GRAVITY
DOR51-77	35 17.21	117 55.23		USGS/JACHENS	GRAVITY
DOR52-77	35 17.21	117 55.28		USGS/JACHENS	GRAVITY
DOR53-77	35 17.21	117 55.15		USGS/JACHENS	GRAVITY
DOR54-77	35 17.22	117 54.68		USGS/JACHENS	GRAVITY
DOR55-77	35 17.22	117 54.37		USGS/JACHENS	GRAVITY
DOR56-77	35 16.98	117 53.81		USGS/JACHENS	GRAVITY
DOR57-77	35 16.86	117 53.69		USGS/JACHENS	GRAVITY
DOR58-77	35 16.85	117 53.64		USGS/JACHENS	GRAVITY
DOR59-77	35 16.85	117 53.61		USGS/JACHENS	GRAVITY
DOR60-77	35 16.84	117 53.68		USGS/JACHENS	GRAVITY
DOR61-77	35 16.84	117 53.68		USGS/JACHENS	GRAVITY
DOR62-77	35 16.84	117 53.68		USGS/JACHENS	GRAVITY
DOR63-77	35 16.84	117 53.59		USGS/JACHENS	GRAVITY
DOR64-77	35 16.84	117 53.59		USGS/JACHENS	GRAVITY
DOR65-77	35 16.83	117 53.58		USGS/JACHENS	GRAVITY
DOR66-77	35 16.83	117 53.55		USGS/JACHENS	GRAVITY
DOR67-77	35 16.82	117 53.58		USGS/JACHENS	GRAVITY
DOR68-77	35 16.81	117 53.41		USGS/JACHENS	GRAVITY
DOR69	35 16.78	117 53.14		USGS/JACHENS	GRAVITY
E1899	34 39.79	119 22.27		USGS/JACHENS	GRAVITY
FETT	33 43.35	116 57.77	HEMET	USGS/JACHENS	GRAVITY
LAB	34 84.28	118 25.58		USGS/JACHENS	GRAVITY
LYTLE	34 13.94	117 29.84		USGS/JACHENS	GRAVITY
MP2N	34 52.53	118 53.33		USGS/JACHENS	GRAVITY
MP3	34 49.38	118 57.69		USGS/JACHENS	GRAVITY
MP4	34 49.38	119 84.88		USGS/JACHENS	GRAVITY
MP5	34 48.77	119 87.53		USGS/JACHENS	GRAVITY
MP6	34 48.77	119 88.67		USGS/JACHENS	GRAVITY
MW3	34 13.15	118 11.95		USGS/JACHENS	GRAVITY
MW4	34 14.85	118 18.98		USGS/JACHENS	GRAVITY
MW5	34 16.24	118 89.28		USGS/JACHENS	GRAVITY
MW6	34 15.48	118 86.26		USGS/JACHENS	GRAVITY
MW7	34 13.37	118 83.42		USGS/JACHENS	GRAVITY
P88181	34 17.36	118 13.58	ACTON	USGS/JACHENS	GRAVITY
P88182	34 23.48	118 84.88	ACTON	USGS/JACHENS	GRAVITY
P88183	34 22.58	118 18.32	ACTON	USGS/JACHENS	GRAVITY

ABRV.	LAT.	LONG.	NAME	INST/PI	INSTRUMENT
PB0104	34 07.13	118 17.97	HOLLYWOOD	USGS/JACHENS	GRAVITY
PB0105	34 06.85	118 22.72	BEVERLY HILLS	USGS/JACHENS	GRAVITY
PB0106	34 16.32	118 36.27	OAT MOUNTAIN	USGS/JACHENS	GRAVITY
PB0107	34 17.22	118 48.77	SIMI	USGS/JACHENS	GRAVITY
PB0108	34 12.29	118 58.56	NEWBURY PARK	USGS/JACHENS	GRAVITY
PB0109	34 07.91	118 45.38	THOUSAND OAKS	USGS/JACHENS	GRAVITY
PB0110	34 20.10	118 20.51	SUNLAND	USGS/JACHENS	GRAVITY
PB0111	34 22.58	118 25.77	MINT CANYON	USGS/JACHENS	GRAVITY
PB0112	34 26.27	118 19.96	AGUA DULCE	USGS/JACHENS	GRAVITY
PB0113	34 17.57	118 00.23	ACTON	USGS/JACHENS	GRAVITY
PB0114	34 21.16	117 56.82	VALYERMO	USGS/JACHENS	GRAVITY
PB0118	34 21.39	117 50.94	VALYERMO	USGS/JACHENS	GRAVITY
PB0201	34 35.27	118 18.15	BOUQUET RESERV	USGS/JACHENS	GRAVITY
PB0202	34 32.72	118 26.16	BOUQUET RESERV	USGS/JACHENS	GRAVITY
PB0203	34 27.53	118 29.63		USGS/JACHENS	GRAVITY
PB0204	34 37.07	118 32.01	BURNT PEAK	USGS/JACHENS	GRAVITY
PB0205	34 40.42	118 27.38	LAKE HUGHES	USGS/JACHENS	GRAVITY
PB0206	34 41.78	118 29.96	LAKE HUGHES	USGS/JACHENS	GRAVITY
PB0207	34 42.90	118 33.92	BURNT PEAK	USGS/JACHENS	GRAVITY
PB0208	34 45.49	118 35.86	NEENACH SCHOOL	USGS/JACHENS	GRAVITY
PB0209	34 40.13	118 23.66	LAKE HUGHES	USGS/JACHENS	GRAVITY
PB0210	34 38.30	118 20.80	DEL SUR	USGS/JACHENS	GRAVITY
PB0211	34 37.11	118 17.36	SLEEPY VALLEY	USGS/JACHENS	GRAVITY
PB0212	34 35.70	118 13.76	RITTER RIDGE	USGS/JACHENS	GRAVITY
PB0501	33 56.55	117 11.45	SUNNYMEAD	USGS/JACHENS	GRAVITY
PB0502	33 46.33	117 09.31	PERRIS	USGS/JACHENS	GRAVITY
PB0503	33 39.45	117 23.80	ALBERHILL	USGS/JACHENS	GRAVITY
PB0504	34 10.17	116 48.82	SAN GORGONIO MT	USGS/JACHENS	GRAVITY
PB0505	34 08.99	116 58.44	SAN GORGONIO MT	USGS/JACHENS	GRAVITY
PB0506	34 04.53	117 03.92		USGS/JACHENS	GRAVITY
PB0507	33 54.19	116 61.69	CABAZON	USGS/JACHENS	GRAVITY
PB0508	33 59.26	116 57.20	BEAUMONT	USGS/JACHENS	GRAVITY
PB0509	34 00.81	117 08.26	REDLANDS	USGS/JACHENS	GRAVITY
PB0510	33 50.05	117 21.49	STEELE PEAK	USGS/JACHENS	GRAVITY
PB0511	34 01.64	117 27.87	SAN BERNARDINO	USGS/JACHENS	GRAVITY
PB0512	34 10.28	117 33.50	ONTARIO	USGS/JACHENS	GRAVITY
PB0513	34 10.40	117 40.37	ONTARIO	USGS/JACHENS	GRAVITY
PB0514	34 15.99	117 37.66	MT SAN ANTONIO	USGS/JACHENS	GRAVITY
PB0515	34 13.74	117 46.05	GLENDORA	USGS/JACHENS	GRAVITY
PB0516	34 04.74	116 52.95	SAN GORGONIO MT	USGS/JACHENS	GRAVITY
PB0517	34 06.38	116 59.17	SAN GORGONIO MT	USGS/JACHENS	GRAVITY
PB0518	34 04.77	117 46.49	SAN DIMAS	USGS/JACHENS	GRAVITY
PB0519	33 54.68	117 32.60	CORONA NORTH	USGS/JACHENS	GRAVITY
PB0520	33 42.23	116 44.02	IDYLLWILD	USGS/JACHENS	GRAVITY
PB0521	33 33.69	116 36.10	IDYLLWILD	USGS/JACHENS	GRAVITY
PB0522	33 35.10	116 26.68	PALM DESERT	USGS/JACHENS	GRAVITY
PB0523	33 46.54	116 27.18	THOUSAND PALMS	USGS/JACHENS	GRAVITY
PB0524	33 58.73	116 39.18	PALM SPRINGS	USGS/JACHENS	GRAVITY
PB0525	33 58.25	116 26.61	THOUSAND PALMS	USGS/JACHENS	GRAVITY
PB0550	33 12.37	117 06.68		USGS/JACHENS	GRAVITY
PB0551	32 52.14	117 14.90		USGS/JACHENS	GRAVITY
PB0552	34 24.57	118 43.41		USGS/JACHENS	GRAVITY
PB0553	34 26.98	119 00.01		USGS/JACHENS	GRAVITY
PB0554	34 27.49	118 54.23		USGS/JACHENS	GRAVITY
PB0701	34 33.59	116 46.84	ORD MOUNTAINS	USGS/JACHENS	GRAVITY
PB0702	34 36.12	116 44.93	RODMAN MTNS	USGS/JACHENS	GRAVITY
PB0703	34 41.41	116 41.73	RODMAN MTNS	USGS/JACHENS	GRAVITY
PB0704	34 34.87	116 33.68	RODMAN MTNS	USGS/JACHENS	GRAVITY
PB0705	34 30.04	116 39.86	RODMAN MTNS	USGS/JACHENS	GRAVITY
PB0706	34 24.31	116 42.92	OLD WOMAN SPG	USGS/JACHENS	GRAVITY
PB0707	34 21.60	116 36.76	OLD WOMAN SPG	USGS/JACHENS	GRAVITY
PB0708	34 28.77	116 50.01	LUCERNE VALLEY	USGS/JACHENS	GRAVITY
PB0709	34 36.62	116 29.72	LAVIC	USGS/JACHENS	GRAVITY
PB0710	34 25.24	116 45.48	LUCERNE VALLEY	USGS/JACHENS	GRAVITY
PB0711	34 28.39	117 07.42	LAKE ARROWHEAD	USGS/JACHENS	GRAVITY
PB0712	34 32.21	117 17.09	VICTORVILLE	USGS/JACHENS	GRAVITY
PB0713	34 34.99	117 19.90	VICTORVILLE	USGS/JACHENS	GRAVITY
PB0714	34 38.69	116 06.67	ORD MOUNTAINS	USGS/JACHENS	GRAVITY
PB0715	34 40.51	117 04.26	APPLE VALLEY	USGS/JACHENS	GRAVITY
PB0716	34 32.75	116 57.40	ORD MOUNTAINS	USGS/JACHENS	GRAVITY
PB0717	34 31.45	117 12.92	APPLE VALLEY	USGS/JACHENS	GRAVITY
PB0718	34 38.90	117 12.84	APPLE VALLEY	USGS/JACHENS	GRAVITY
PB0719	34 27.84	117 04.97	LAKE ARROWHEAD	USGS/JACHENS	GRAVITY
PB0720	34 22.37	117 06.49	BUTLER PEAK	USGS/JACHENS	GRAVITY
PB0721	34 28.02	116 30.45	OLD WOMAN SPG	USGS/JACHENS	GRAVITY
PB0722	34 11.55	116 43.14	MORONGO VALLEY	USGS/JACHENS	GRAVITY
PB0723	34 20.52	116 41.67	OLD WOMAN SPG	USGS/JACHENS	GRAVITY
PB0724	34 19.17	117 00.84	BUTLER PEAK	USGS/JACHENS	GRAVITY

ABRV.	LAT.	LONG.	NAME	INST/PI	INSTRUMENT
P80801	34 08.37	116 24.71	JOSHUA TREE	USGS/JACHENS	GRAVITY
P80802	34 11.08	116 25.77	JOSHUA TREE	USGS/JACHENS	GRAVITY
P80733	34 19.88	116 29.12	EMERSON LAKE	USGS/JACHENS	GRAVITY
P80804	34 05.61	116 10.07	TWENTYNINE PALMS	USGS/JACHENS	GRAVITY
P80805	34 03.68	116 13.64	TWENTYNINE PALMS	USGS/JACHENS	GRAVITY
P80806	33 55.64	116 11.19	LOST HORSE MTN	USGS/JACHENS	GRAVITY
P80807	34 13.02	116 14.99	TWENTYNINE PALMS	USGS/JACHENS	GRAVITY
P80808	34 09.39	116 18.58	JOSHUA TREE	USGS/JACHENS	GRAVITY
P80809	34 21.05	116 15.14	EMERSON LAKE	USGS/JACHENS	GRAVITY
P80810	33 55.51	115 55.99	HEXIE MOUNTAINS	USGS/JACHENS	GRAVITY
P80811	33 56.09	115 57.77	HEXIE MOUNTAINS	USGS/JACHENS	GRAVITY
P80812	33 57.82	115 59.20	HEXIE MOUNTAINS	USGS/JACHENS	GRAVITY
P80813	33 58.02	116 00.79	LOST HORSE MTN	USGS/JACHENS	GRAVITY
P80814	34 01.39	116 01.07	TWENTYNINE PALMS	USGS/JACHENS	GRAVITY
P80815	34 04.12	115 45.26	VALLEY MTN	USGS/JACHENS	GRAVITY
P80816	34 11.54	115 55.00	VALLEY MTN	USGS/JACHENS	GRAVITY
P80817	34 12.29	115 43.10	DALE LAKE	USGS/JACHENS	GRAVITY
P80818	34 04.62	115 34.18	DALE LAKE	USGS/JACHENS	GRAVITY
P80819	34 00.53	115 27.72	CADIZ VALLEY	USGS/JACHENS	GRAVITY
P80820	34 27.99	116 20.32	EMERSON LAKE	USGS/JACHENS	GRAVITY
P80821	34 27.61	116 12.10	DEADMAN LAKE	USGS/JACHENS	GRAVITY
P80822	34 15.70	116 03.96	DEADMAN LAKE	USGS/JACHENS	GRAVITY
P80823	34 20.50	115 56.53	LEAD MOUNTAIN	USGS/JACHENS	GRAVITY
P80824	34 10.55	115 35.94	DALE LAKE	USGS/JACHENS	GRAVITY
P80825	34 05.56	115 24.61	USGS/JACHENS	USGS/JACHENS	GRAVITY
P81001	35 02.01	116 53.45	LANE MOUNTAIN	USGS/JACHENS	GRAVITY
P81002	35 08.07	116 48.16	LANE MOUNTAIN	USGS/JACHENS	GRAVITY
P81003	35 13.49	116 43.53	ALVORD MOUNTAIN	USGS/JACHENS	GRAVITY
P81004	35 25.56	116 33.05	TIEFORT MTNS	USGS/JACHENS	GRAVITY
P81005	34 57.47	117 12.69	BARSTOW	USGS/JACHENS	GRAVITY
P81006	34 54.41	117 03.99	BARSTOW	USGS/JACHENS	GRAVITY
P81007	34 45.33	117 10.93	HAWES	USGS/JACHENS	GRAVITY
P81008	34 50.88	117 11.96	BARSTOW	USGS/JACHENS	GRAVITY
P81009	34 47.43	117 05.95	BARSTOW	USGS/JACHENS	GRAVITY
P81010	35 08.81	117 22.38	FREMONT PEAK	USGS/JACHENS	GRAVITY
P81011	35 04.62	117 34.17	BORON	USGS/JACHENS	GRAVITY
P81012	35 13.61	117 36.36	BORON	USGS/JACHENS	GRAVITY
P81013	35 21.22	117 37.17	RED MOUNTAIN	USGS/JACHENS	GRAVITY
P81014	35 31.30	117 40.32	RIDGECREST	USGS/JACHENS	GRAVITY
P81016	35 21.34	116 50.99	GOLDSTONE LAKE	USGS/JACHENS	GRAVITY
P81016	35 03.46	116 59.07	LANE MOUNTAIN	USGS/JACHENS	GRAVITY
P81017	35 09.68	117 01.67	OPAL MOUNTAIN	USGS/JACHENS	GRAVITY
P81018	34 55.70	116 50.19	DAGGETT	USGS/JACHENS	GRAVITY
P81019	35 03.86	116 37.62	ALVORD MOUNTAIN	USGS/JACHENS	GRAVITY
P81020	35 11.36	116 09.42	SODA LAKE	USGS/JACHENS	GRAVITY
P81021	35 23.29	116 07.27	BAKER	USGS/JACHENS	GRAVITY
P81022	35 37.33	116 17.20	AVAWATZ PASS	USGS/JACHENS	GRAVITY
P81023	35 04.83	116 23.20	CAVE MOUNTAIN	USGS/JACHENS	GRAVITY
P81030	35 31.43	117 21.63	USGS/JACHENS	USGS/JACHENS	GRAVITY
P81031	34 57.51	117 26.64	HAWES	USGS/JACHENS	GRAVITY
P81032	34 43.88	116 48.73	ORD MOUNTAINS	USGS/JACHENS	GRAVITY
P81033	34 48.23	116 56.48	DAGGETT	USGS/JACHENS	GRAVITY
P81034	34 49.50	116 40.71	NEWBERRY	USGS/JACHENS	GRAVITY
P81035	34 54.13	116 24.45	CADY MOUNTAINS	USGS/JACHENS	GRAVITY
P81101	34 37.08	117 31.69	SHADOW MTNS SE	USGS/JACHENS	GRAVITY
P81102	34 43.64	117 32.43	SHADOW MTNS	USGS/JACHENS	GRAVITY
P81103	34 48.72	117 32.66	KRAMER	USGS/JACHENS	GRAVITY
P81104	34 54.78	117 42.60	KRAMER	USGS/JACHENS	GRAVITY
P81105	34 57.50	117 53.65	ROGERS LAKE	USGS/JACHENS	GRAVITY
P81106	34 52.08	117 09.72	ROGERS LAKE	USGS/JACHENS	GRAVITY
P81108	34 37.76	117 53.89	ALPINE BUTTE	USGS/JACHENS	GRAVITY
P81107	34 40.69	117 46.44	HI VISTA	USGS/JACHENS	GRAVITY
P81109	34 48.00	117 44.82	KRAMER	USGS/JACHENS	GRAVITY
P81110	34 25.86	117 46.00	VALVERMO	USGS/JACHENS	GRAVITY
P81111	34 22.51	117 46.02	VALVERMO	USGS/JACHENS	GRAVITY
P81112	34 22.71	117 41.81	MESCAL CREEK	USGS/JACHENS	GRAVITY
P81113	34 22.57	117 35.71	PHELAN	USGS/JACHENS	GRAVITY
P81114	34 31.98	117 42.52	EL MIRAGE	USGS/JACHENS	GRAVITY
P81115	34 25.92	117 55.32	USGS/JACHENS	USGS/JACHENS	GRAVITY

ABRV.	LAT.	LONG.	NAME	INST/PI	INSTRUMENT
PB1116	34 35.23	117 51.12		USGS/JACHENS	GRAVITY
PB1117	34 31.46	117 48.46		USGS/JACHENS	GRAVITY
PB1118	34 27.48	117 48.72		USGS/JACHENS	GRAVITY
PB1119	34 26.15	117 50.15		USGS/JACHENS	GRAVITY
PB1120	34 23.88	117 48.26		USGS/JACHENS	GRAVITY
PB1121	34 25.17	117 50.24		USGS/JACHENS	GRAVITY
PB1201	34 47.09	115 09.45	FENNER	USGS/JACHENS	GRAVITY
PB1202	34 49.72	115 02.95	FENNER	USGS/JACHENS	GRAVITY
PB1203	34 51.52	114 52.15	BANNOCK	USGS/JACHENS	GRAVITY
PB1204	34 39.61	115 22.57		USGS/JACHENS	GRAVITY
PB1205	34 25.46	115 33.47	BRISTOL LAKE	USGS/JACHENS	GRAVITY
PB1210	34 48.73	115 36.53	CADIZ	USGS/JACHENS	GRAVITY
PB1211	34 42.23	115 40.57	CADIZ	USGS/JACHENS	GRAVITY
PB1212	34 33.88	115 39.34	FLYNN	USGS/JACHENS	GRAVITY
PB1213	34 16.71	115 11.12	MILLIGAN	USGS/JACHENS	GRAVITY
PB1214	34 21.39	115 16.73	CADIZ LAKE	USGS/JACHENS	GRAVITY
PB1215	34 26.86	115 26.21	CADIZ LAKE	USGS/JACHENS	GRAVITY
PB1216	34 38.26	115 18.07	ESSEX	USGS/JACHENS	GRAVITY
PB1217	34 56.68	115 30.67	FLYNN	USGS/JACHENS	GRAVITY
PB1218	34 49.38	115 20.74	COLTON WELL	USGS/JACHENS	GRAVITY
PB1301	34 42.71	116 30.61	RODMAN MTNS	USGS/JACHENS	GRAVITY
PB1302	34 43.21	116 10.89	LUDLOW	USGS/JACHENS	GRAVITY
PB1303	34 37.80	116 10.03	LUDLOW	USGS/JACHENS	GRAVITY
PB1304	34 52.33	116 10.92	BROADWELL LAKE	USGS/JACHENS	GRAVITY
PB1305	35 00.62	116 11.90	SODA LAKE	USGS/JACHENS	GRAVITY
PB1306	34 44.00	115 55.00		USGS/JACHENS	GRAVITY
PB1307	34 33.99	115 47.71	BAGDAD	USGS/JACHENS	GRAVITY
PB1308	34 36.30	115 56.45	BAGDAD	USGS/JACHENS	GRAVITY
PB1309	34 39.22	116 00.81	LUDLOW	USGS/JACHENS	GRAVITY
PB1501	35 07.68	118 24.79	TEHACHAPI NORTH	USGS/JACHENS	GRAVITY
PB1502	35 11.83	118 32.01	COMMINGS MT	USGS/JACHENS	GRAVITY
PB1503	35 17.26	118 37.58	BRECKENRIDGE MT	USGS/JACHENS	GRAVITY
PB1504	35 19.94	118 34.96	BRECKENRIDGE MT	USGS/JACHENS	GRAVITY
PB1505	35 26.40	118 31.68	BRECKENRIDGE MT	USGS/JACHENS	GRAVITY
PB1506	35 31.86	118 30.62	GLENNVILLE	USGS/JACHENS	GRAVITY
PB1507	35 23.97	118 27.94	EMERALD MT	USGS/JACHENS	GRAVITY
PB1508	35 20.08	118 23.48	EMERALD MT	USGS/JACHENS	GRAVITY
PB1509	35 18.52	118 29.82	EMERALD MT	USGS/JACHENS	GRAVITY
PB1510	35 10.64	118 07.53	MOJAVE	USGS/JACHENS	GRAVITY
PB1511	35 19.02	118 04.90	CROSS MOUNTAIN	USGS/JACHENS	GRAVITY
PB1512	35 22.83	117 08.90	SALTDAL NW	USGS/JACHENS	GRAVITY
PB1513	35 24.47	117 48.98	GARLOCK	USGS/JACHENS	GRAVITY
PB1514	35 12.71	117 46.19	CASTLE BUTTE	USGS/JACHENS	GRAVITY
PB1515	35 06.50	117 53.10	CASTLE BUTTE	USGS/JACHENS	GRAVITY
PB1516	35 02.87	117 46.63	CASTLE BUTTE	USGS/JACHENS	GRAVITY
PB1517	35 01.36	118 01.30	SANBORN	USGS/JACHENS	GRAVITY
PB1518	34 59.59	118 10.48	ROSAMOND	USGS/JACHENS	GRAVITY
PB1519	34 52.91	118 09.04	ROSAMOND	USGS/JACHENS	GRAVITY
PB1520	34 52.72	118 17.29	WILLOW SPRINGS	USGS/JACHENS	GRAVITY
PB1521	34 57.02	118 17.16	WILLOW SPRINGS	USGS/JACHENS	GRAVITY
PB1522	35 05.30	118 41.99	CUMMINGS MT	USGS/JACHENS	GRAVITY
PB1523	35 12.32	118 17.25	TEHACHAPI NE	USGS/JACHENS	GRAVITY
PB1524	35 16.78	117 53.14		USGS/JACHENS	GRAVITY
PB1601	33 48.92	116 10.17	LOST HORSE MTN	USGS/JACHENS	GRAVITY
PB1602	33 52.89	116 18.07	THOUSAND PALMS	USGS/JACHENS	GRAVITY
PB1603	33 54.69	116 21.93	THOUSAND PALMS	USGS/JACHENS	GRAVITY
PB1604	34 11.93	116 34.33	MORONGO VALLEY	USGS/JACHENS	GRAVITY
PB1701	33 41.87	115 39.70	HAYFIELD	USGS/JACHENS	GRAVITY
PB1702	33 42.98	115 30.51	HAYFIELD	USGS/JACHENS	GRAVITY
PB1703	33 46.66	115 27.14	COXCOMB MT	USGS/JACHENS	GRAVITY
PB1704	33 50.84	116 28.72	COXCOMB MT	USGS/JACHENS	GRAVITY
PB1705	33 57.67	115 41.52	PINTO BASIN	USGS/JACHENS	GRAVITY
PB1706	33 51.76	115 47.71	HEXIE MT	USGS/JACHENS	GRAVITY
PB1707	33 50.46	115 46.28	HEXIE MT	USGS/JACHENS	GRAVITY
PB1708	33 51.83	115 39.26	PINTO BASIN	USGS/JACHENS	GRAVITY
PB1709	33 46.88	115 47.79	HEXIE MT	USGS/JACHENS	GRAVITY
PB1710	33 44.27	115 49.34	COTTONWOOD SPR	USGS/JACHENS	GRAVITY
PB1711	33 34.54	115 13.27	SIDEWINDER WELL	USGS/JACHENS	GRAVITY
PB1712	33 42.34	115 20.75	CHUCKWALLA MT	USGS/JACHENS	GRAVITY

ABRV.	LAT.	LONG.	NAME	INST/PI	INSTRUMENT
PB1713	33 35.99	115 38.33	HAYFIELD	USGS/JACHENS	GRAVITY
PE1714	33 40.81	115 59.43	COTTONWOOD SPG	USGS/JACHENS	GRAVITY
PS1715	33 45.54	116 06.35	LOST HORSE MTN	USGS/JACHENS	GRAVITY
PE1716	33 34.19	116 12.86	COACHELLA	USGS/JACHENS	GRAVITY
PE1717	33 26.31	116 41.39	FRINK	USGS/JACHENS	GRAVITY
PE1718	33 32.19	115 38.61	HAYFIELD	USGS/JACHENS	GRAVITY
PE1719	33 30.75	116 48.87	COTTONWOOD SPG	USGS/JACHENS	GRAVITY
PE1720	33 50.22	115 15.79	COXCOMB MT	USGS/JACHENS	GRAVITY
PE1801	35 12.73	119 52.76		USGS/JACHENS	GRAVITY
PE1802	35 05.55	119 43.72		USGS/JACHENS	GRAVITY
PE1803	35 02.42	119 33.50		USGS/JACHENS	GRAVITY
PE1901	34 53.91	119 39.17		USGS/JACHENS	GRAVITY
PE1902	34 57.44	119 54.02		USGS/JACHENS	GRAVITY
PE1903	35 05.16	120 01.61		USGS/JACHENS	GRAVITY
PB2N01	34 42.17	118 56.15	MCDONALD PK	USGS/JACHENS	GRAVITY
PB2N02	34 41.48	118 51.03	BLACK MTN	USGS/JACHENS	GRAVITY
PB2N03	34 47.55	118 50.00	LEBEC	USGS/JACHENS	GRAVITY
PB2N04	34 48.51	118 53.04	FRAZIER MTN	USGS/JACHENS	GRAVITY
PB2N05	34 38.48	119 03.29	LOCKWOOD VALLEY	USGS/JACHENS	GRAVITY
PB2N06	34 39.95	119 07.00	LOCKWOOD VALLEY	USGS/JACHENS	GRAVITY
PB2N07	34 44.86	119 04.71	LOCKWOOD VALLEY	USGS/JACHENS	GRAVITY
PB2N08	34 47.82	119 02.01	CUDDY VALLEY	USGS/JACHENS	GRAVITY
PB2N09	34 53.08	118 34.99	LIEBRE TWINS	USGS/JACHENS	GRAVITY
PB2N10	34 52.48	118 27.65	FAIRMONT BUTTE	USGS/JACHENS	GRAVITY
PB2N11	34 46.03	118 23.78	FAIRMONT BUTTE	USGS/JACHENS	GRAVITY
PB2N12	34 39.31	118 27.99	LAKE HUGHES	USGS/JACHENS	GRAVITY
PB2N13	34 44.01	118 35.69	BURNT PEAK	USGS/JACHENS	GRAVITY
PB2N14	34 44.47	118 42.51	LIEBRE MTN	USGS/JACHENS	GRAVITY
PB2N15	34 43.05	119 07.44	LOCKWOOD VALLEY	USGS/JACHENS	GRAVITY
PB2N16	34 43.25	119 11.52	SAN GUILLERMO	USGS/JACHENS	GRAVITY
PB2N17	34 43.04	119 16.23	REYES PEAK	USGS/JACHENS	GRAVITY
PB2N18	34 40.45	119 22.23	REYES PEAK	USGS/JACHENS	GRAVITY
PB2N19	34 52.69	119 20.44	SANTIAGO CREEK	USGS/JACHENS	GRAVITY
PB2N20	34 49.90	119 12.17	SAWMILL MT	USGS/JACHENS	GRAVITY
PB81	34 09.49	118 12.31	PASADENA	USGS/JACHENS	GRAVITY
PB810	34 57.34	117 01.11	BARSTOW	USGS/JACHENS	GRAVITY
PB811	34 36.54	117 39.39	EL MIRAGE	USGS/JACHENS	GRAVITY
PB812	34 34.20	115 29.14	DANBY	USGS/JACHENS	GRAVITY
PB813	34 43.66	116 18.71	LAVIC	USGS/JACHENS	GRAVITY
PB814	35 40.49	117 53.69	INYO KERN	USGS/JACHENS	GRAVITY
PB815	35 05.75	118 10.23	MONOLITH	USGS/JACHENS	GRAVITY
PB816	33 53.91	116 37.41	PALM SPRINGS	USGS/JACHENS	GRAVITY
PB817	33 43.00	115 48.49	COTTONWOOD SPG	USGS/JACHENS	GRAVITY
PB818	35 19.12	119 41.20		USGS/JACHENS	GRAVITY
PB820	34 27.49	117 50.66		USGS/JACHENS	GRAVITY
PB82	34 29.52	118 06.03		USGS/JACHENS	GRAVITY
PB83	34 15.91	116 53.97	ACTON	USGS/JACHENS	GRAVITY
PB84	34 12.73	117 07.11		USGS/JACHENS	GRAVITY
PB85	33 57.47	117 18.30	RIVERSIDE EAST	USGS/JACHENS	GRAVITY
PB86	34 17.41	117 50.38	CRYSTAL LAKE	USGS/JACHENS	GRAVITY
PB87	34 26.69	116 59.16	LUCERNE VALLEY	USGS/JACHENS	GRAVITY
PB88	34 04.02	116 01.44	TWENTYNINE PALMS	USGS/JACHENS	GRAVITY
PB89	34 04.38	115 11.39	IRON MOUNTAINS	USGS/JACHENS	GRAVITY
TDL8X	33 43.20	118 16.30		USGS/JACHENS	GRAVITY
PB8030	34 20.70	116 25.06		USGS/JACHENS	GRAVITY
PINYON	33 37.00	116 27.50		USGS/JACHENS	GRAVITY
PB8527	34 09.54	117 54.43		USGS/JACHENS	GRAVITY

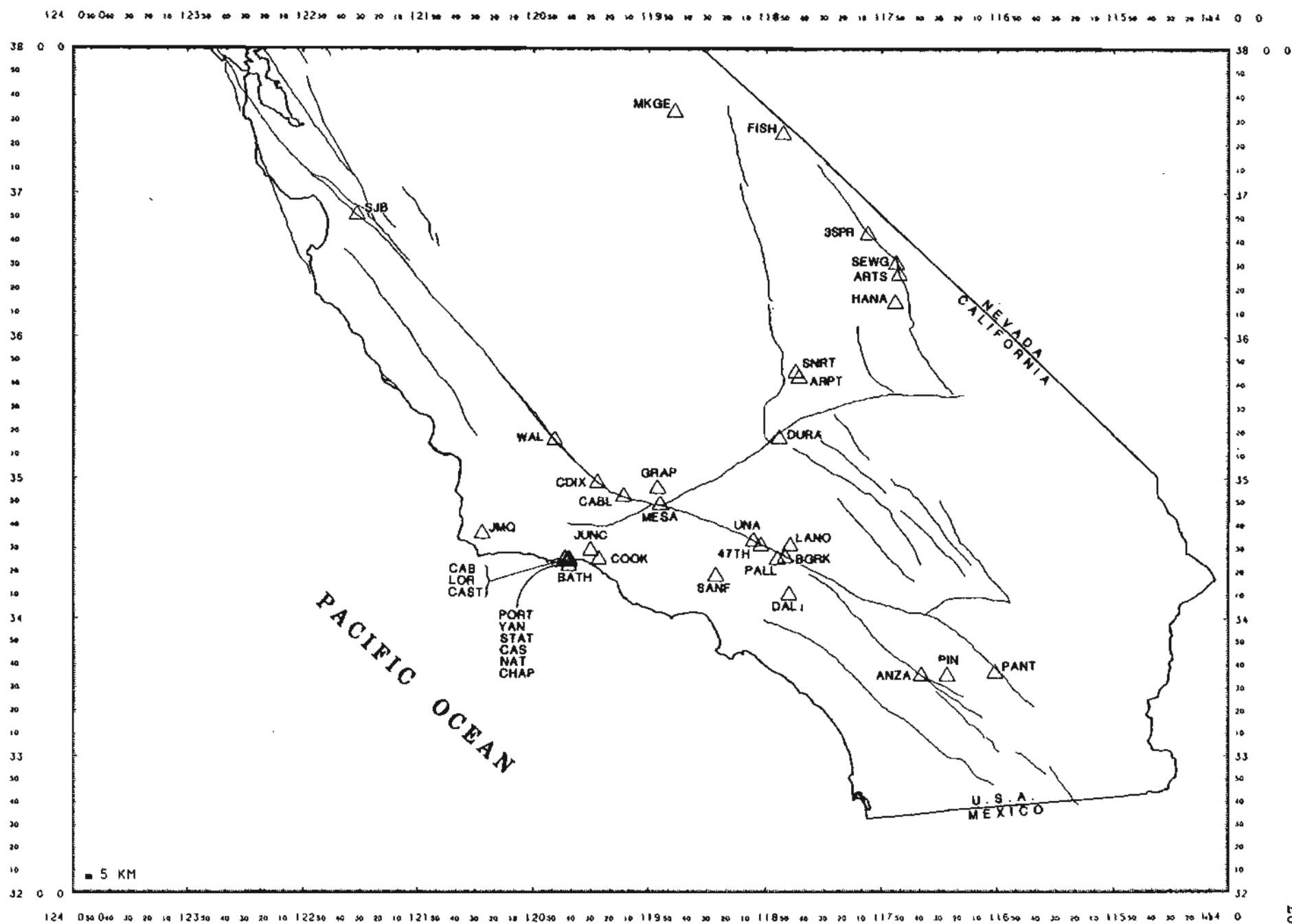


GRAVITY

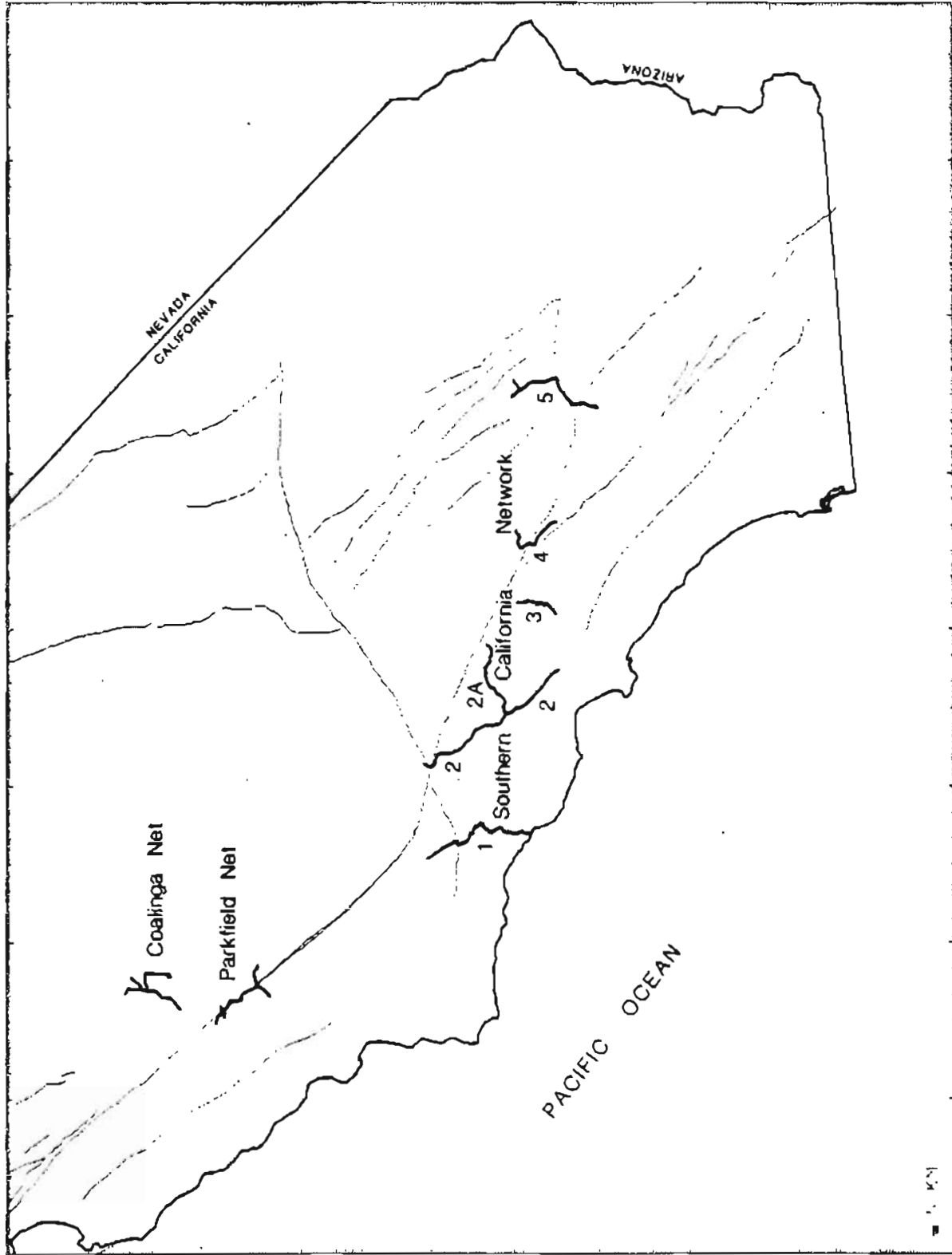
LEVEL LINES -CALIFORNIA

The level lines include short fault-crossing lines surveyed at intervals of a few months to a few years (Sylvester), and longer lines which are 30 to 100 km long in the Transverse Ranges surveyed annually (Thatcher).

ABRV	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT		
COOK	34	25.17	119	25.80	24 MO	COOK	UCSB/SYLVES	LEVEL
CAB	34	22.33	119	41.42	12	CABRILLO	UCSB/SYLVES	LEVEL
LOR	34	25.33	119	43.42	24	LORINDA	UCSB/SYLVES	LEVEL
CAST	34	25.80	119	43.42	24	CASTILLO CON	UCSB/SYLVES	LEVEL
PORT	34	25.33	119	43.58	24	PORTESUELLO	UCSB/SYLVES	LEVEL
BATH	34	24.17	119	41.67	24	BATH	UCSB/SYLVES	LEVEL
CHAP	34	24.83	119	41.50	24	CHAPALA	UCSB/SYLVES	LEVEL
NAT	34	24.83	119	41.42	24	NATOMA	UCSB/SYLVES	LEVEL
CAS	34	24.83	119	41.58	24	CASTILLO	UCSB/SYLVES	LEVEL
YAN	34	25.80	119	41.17	24	YANONALI	UCSB/SYLVES	LEVEL
STAT	34	24.92	119	41.92	24	STATE	UCSB/SYLVES	LEVEL
DURA	35	17.80	117	53.42	12	DURAVAN	UCSB/SYLVES	LEVEL
SJB	36	50.80	121	32.80	12	SAN JUAN BAUT	UCSB/SYLVES	LEVEL
WAL	35	16.15	119	49.45		WALLACE CREEK	UCSB/SYLVES	LEVEL
SANF	34	18.05	118	25.58	60	SAN FERNANDO	UCSB/SYLVES	LEVEL
JUNC	34	29.80	119	30.25	48	JUNCAL	UCSB/SYLVES	LEVEL
3SPR	36	42.67	117	07.33	48	TRIANGLE SPR	UCSB/SYLVES	LEVEL
SEWG	36	30.33	116	52.42	48	SEWAGE	UCSB/SYLVES	LEVEL
ARTS	36	25.83	116	51.80	48	ARTISTS DR	UCSB/SYLVES	LEVEL
HANA	36	14.08	116	53.80	48	HANAUPAH	UCSB/SYLVES	LEVEL
PALL	34	25.17	117	54.80	4	PALLETT CREEK	UCSB/SYLVES	LEVEL
PIN	33	35.80	116	26.80	4	PINON FLAT	UCSB/SYLVES	LEVEL
GRAP	34	55.50	118	55.50	6	GRAPEVINE	UCSB/SYLVES	LEVEL
UNA	34	33.80	118	06.25	12	UNA LAKE	UCSB/SYLVES	LEVEL
MKGE	37	33.39	118	47.08	12	MCGEE CRK	UCSB/SYLVES	LEVEL
CDIX	34	57.80	119	26.68	12	CAMP DIX	UCSB/SYLVES	LEVEL
CABL	34	52.11	119	13.03	6	CABALLO	UCSB/SYLVES	LEVEL
JMQ	34	36.30	120	26.44	6	JM QUARRY	UCSB/SYLVES	LEVEL
LANO	34	31.06	117	47.53	48	LLANO	UCSB/SYLVES	LEVEL
PANT	33	36.25	116	01.33		PAINTED CANYON	UCSB/SYLVES	LEVEL
BGRK	34	26.04	117	50.80	4	BIG ROCK SPGS	UCSB/SYLVES	LEVEL
ANZA	33	36.80	116	39.35	3	ANZA	UCSB/SYLVES	LEVEL
DALT	34	10.09	117	48.04	4	DALTON	UCSB/SYLVES	LEVEL
MESA	34	48.46	118	54.20	4	MESA VALLEY	UCSB/SYLVES	LEVEL
47ST	34	31.03	118	02.47	12	47TH ST E	UCSB/SYLVES	LEVEL
FISH	37	24.28	117	51.47	48	FISH LAKE VLY	UCSB/SYLVES	LEVEL
SNRT	35	44.87	117	45.80		SNORT	UCSB/SYLVES	LEVEL
ARPT	35	42.68	117	43.26		AIRPORT	UCSB/SYLVES	LEVEL



LEVEL

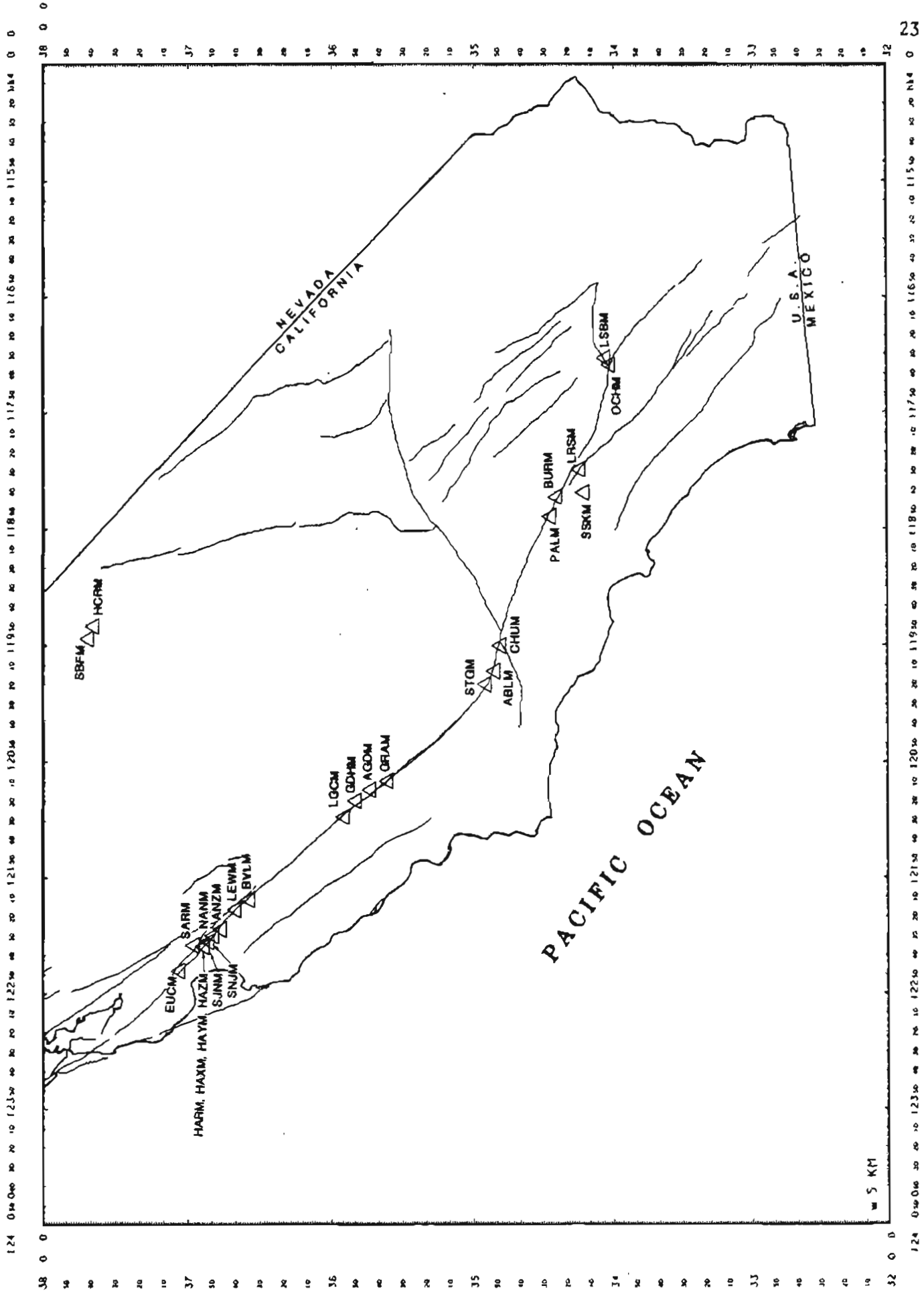


FAULTING LEVEL LINES

PERMANENT MAGNETOMETERS -CALIFORNIA

The permanent magnetometers (Johnston) are proton magnetometers which operate continuously (15 minute intervals) to measure total magnetic field.

ABRV	LAT.	LONG.	NAME	INST/PI	INSTRUMENT
ABLM 34	58.88	119 13.43	CON MT ABLE	USGS/JOHNST	PERMAG
AGDM 36	43.37	128 14.35	CON ANTELOPE GRD	USGS/JOHNST	PERMAG
ANZM 36	53.18	121 35.45	CON ANZAR	USGS/JOHNST	PERMAG
BUPM 34	24.35	117 43.55	CON BLUE RIDGE	USGS/JOHNST	PERMAG
BVLM 36	34.28	121 11.33	CON BEAR VLY	USGS/JOHNST	PERMAG
CHUM 34	48.35	119 88.42	CON CHUCKUPATE	USGS/JOHNST	PERMAG
EUCM 37	83.12	121 48.18	CON EUREKA CANYON	USGS/JOHNST	PERMAG
GDMH 36	49.43	128 28.28	CON GOLD HILL	USGS/JOHNST	PERMAG
GRAM 36	36.12	128 89.83	CON GRANT RANCH	USGS/JOHNST	PERMAG
HARM 36	45.98	121 26.75	CON HARRIS RANCH	USGS/JOHNST	PERMAG
HAXM 36	45.98	121 26.75	CON HARRIS RANCH	USGS/JOHNST	PERMAG
HAYM 36	45.98	121 26.75	CON HARRIS RANCH	USGS/JOHNST	PERMAG
HAZM 36	45.98	121 26.75	CON HARRIS RANCH	USGS/JOHNST	PERMAG
HCRM 37	38.55	118 58.28	CON HOT CREEK	USGS/JOHNST	PERMAG
LEWM 36	39.83	121 16.43	CON LEWIS RANCH	USGS/JOHNST	PERMAG
LGCM 36	54.35	128 28.55	CON LANGE CANYON	USGS/JOHNST	PERMAG
LRSM 34	14.48	117 29.48	CON LYTLE CRK RAN	USGS/JOHNST	PERMAG
LSBM 34	83.53	116 32.52	CON LITTLE SAN BE	USGS/JOHNST	PERMAG
NANM 36	62.85	121 35.78	CON NEW ANZAR	USGS/JOHNST	PERMAG
OCHM 34	81.43	116 36.88	CON OLD CANYON HOUSE	USGS/JOHNST	PERMAG
PALM 34	26.93	117 53.52	CON PALMDALE	USGS/JOHNST	PERMAG
SARM 36	67.23	121 34.92	CON SARGENT	USGS/JOHNST	PERMAG
SBFM 37	48.88	118 56.55	CON SMOKEY BEAR FLT	USGS/JOHNST	PERMAG
SJNM 36	49.88	121 29.93	CON SAN JUAN S	USGS/JOHNST	PERMAG
SNJM 36	51.88	121 33.88	CON SAN JUAN N	USGS/JOHNST	PERMAG
SSKM 34	12.72	117 41.45	CON SUNSET PK	USGS/JOHNST	PERMAG
STGM 34	54.68	119 28.18	CON SANTIAGO	USGS/JOHNST	PERMAG

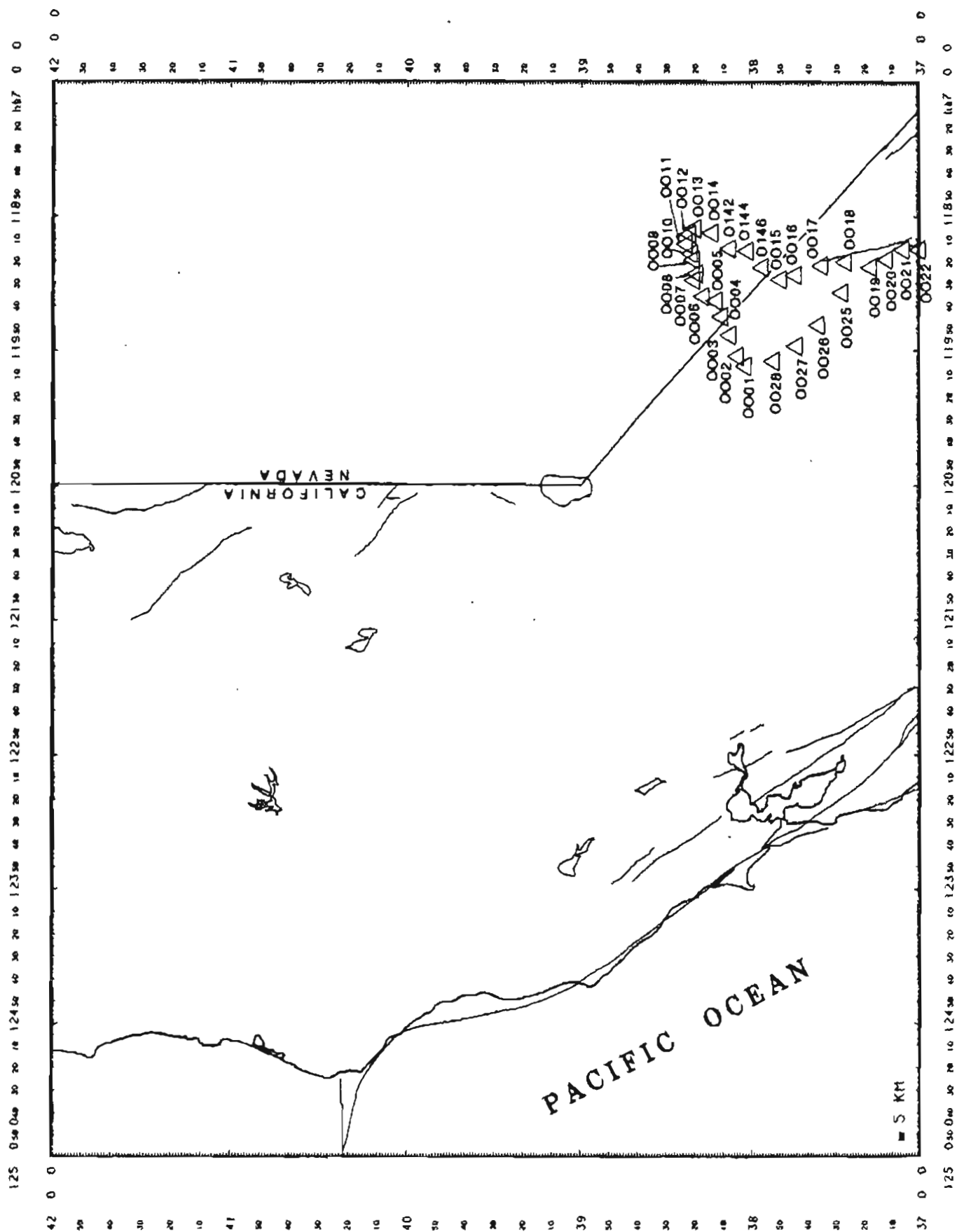


PERMANENT MAGNETOMETERS

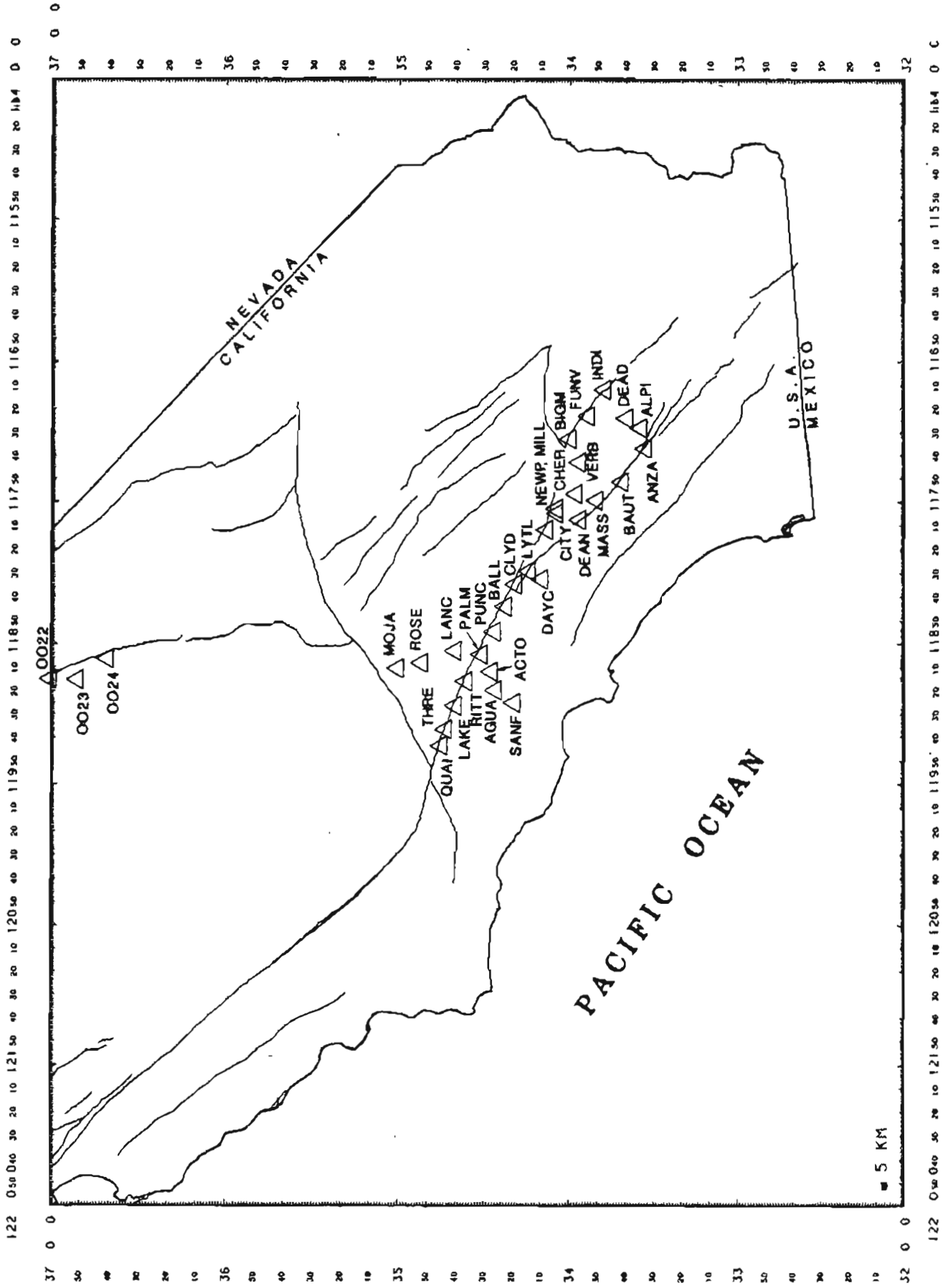
SURVEY MAGNETOMETERS -CALIFORNIA

Magnetic surveys (Johnston) are conducted periodically, using proton magnetometers to measure total magnetic field along active faults.

ABRV	LAT.	LONG.	NAME	INST/PI	INSTRUMENT
ACTO	34 27.38	118 12.88	ACTON	USGS/JOHNS	SURMAG
AGUA	34 26.88	118 28.88	AGUA DULCE	USGS/JOHNS	SURMAG
ALPI	33 34.55	116 28.88	ALPINE VLG	USGS/JOHNS	SURMAG
ANZA	33 33.12	116 37.25	ANZA VALLEY	USGS/JOHNS	SURMAG
BALL	34 22.55	117 44.25	BALL FLAT	USGS/JOHNS	SURMAG
BAUT	33 41.38	116 51.62	BAUTISTA CAN	USGS/JOHNS	SURMAG
BIGH	33 59.68	116 33.25	BIG MORONGO	USGS/JOHNS	SURMAG
CHER	33 57.62	116 56.87	CHERRY	USGS/JOHNS	SURMAG
CITY	34 87.88	117 12.88	CITY CREEK	USGS/JOHNS	SURMAG
CLYO	34 19.88	117 34.88	CLYDE RANCH	USGS/JOHNS	SURMAG
DAYC	34 89.75	117 32.75	DAY CANYON	USGS/JOHNS	SURMAG
DEAD	33 39.62	116 24.38	DEAD IND CRK	USGS/JOHNS	SURMAG
DEAN	33 56.25	117 87.88	DE ANZA	USGS/JOHNS	SURMAG
FUNV	33 53.18	116 23.58	FUN VALLEY	USGS/JOHNS	SURMAG
INDI	33 47.58	116 12.25	INDIO HILLS	USGS/JOHNS	SURMAG
LAKE	34 48.13	118 26.63	LAKE HUGHES	USGS/JOHNS	SURMAG
LANC	34 48.13	118 83.25	LANCASTER	USGS/JOHNS	SURMAG
LYTL	34 14.12	117 29.43	LYTLE CRK RAN	USGS/JOHNS	SURMAG
MASS	33 58.25	116 59.63	MASSACRE CAN	USGS/JOHNS	SURMAG
MILL	34 84.67	117 83.12	MILL CRK	USGS/JOHNS	SURMAG
MOJA	35 88.25	118 18.62	MOJAVE	USGS/JOHNS	SURMAG
NEWP	34 84.25	117 85.88	NEWPORT AVE	USGS/JOHNS	SURMAG
0801	38 82.25	119 86.75	OWENS VALY ST	USGS/JOHNS	SURMAG
0802	38 85.88	119 82.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0803	38 87.75	118 53.28	OWENS VALY ST	USGS/JOHNS	SURMAG
0804	38 18.58	118 45.88	OWENS VALY ST	USGS/JOHNS	SURMAG
0805	38 12.58	118 38.88	OWENS VALY ST	USGS/JOHNS	SURMAG
0806	38 17.88	118 36.88	OWENS VALY ST	USGS/JOHNS	SURMAG
0807	38 28.25	118 28.75	OWENS VALY ST	USGS/JOHNS	SURMAG
0808	38 19.25	118 25.75	OWENS VALY ST	USGS/JOHNS	SURMAG
0809	38 28.58	118 19.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0810	38 21.25	118 16.75	OWENS VALY ST	USGS/JOHNS	SURMAG
0811	38 23.88	118 12.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0812	38 21.75	118 88.88	OWENS VALY ST	USGS/JOHNS	SURMAG
0813	38 28.88	118 85.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0814	38 14.88	118 87.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0815	37 49.75	118 28.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0816	37 44.58	118 26.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0817	37 35.25	118 22.25	OWENS VALY ST	USGS/JOHNS	SURMAG
0818	37 26.75	118 28.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0819	37 17.75	118 23.88	OWENS VALY ST	USGS/JOHNS	SURMAG
0820	37 11.87	118 19.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0821	37 85.75	118 15.88	OWENS VALY ST	USGS/JOHNS	SURMAG
0822	37 83.88	118 15.88	OWENS VALY ST	USGS/JOHNS	SURMAG
0823	36 58.75	118 15.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0824	36 48.58	118 86.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0825	37 28.88	118 34.37	OWENS VALY ST	USGS/JOHNS	SURMAG
0826	37 36.45	118 48.87	OWENS VALY ST	USGS/JOHNS	SURMAG
0827	37 44.25	118 58.13	OWENS VALY ST	USGS/JOHNS	SURMAG
0828	37 52.25	119 84.75	OWENS VALY ST	USGS/JOHNS	SURMAG
0142	38 87.75	118 14.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0144	38 81.58	118 15.58	OWENS VALY ST	USGS/JOHNS	SURMAG
0146	37 56.25	118 23.88	OWENS VALY ST	USGS/JOHNS	SURMAG
PALM	34 38.87	118 84.75	PALMDALE	USGS/JOHNS	SURMAG
PUNC	34 26.37	117 55.88	PUNCHBOWL	USGS/JOHNS	SURMAG
QUAI	34 45.88	118 43.75	QUAIL LAKE	USGS/JOHNS	SURMAG
RITT	34 36.25	118 16.25	RITTER RANCH	USGS/JOHNS	SURMAG
ROSE	34 51.88	118 88.37	ROSEMEAD	USGS/JOHNS	SURMAG
SANF	34 19.58	118 25.25	SAN FERNANDO	USGS/JOHNS	SURMAG
THRE	34 43.58	118 36.75	THREE POINTS	USGS/JOHNS	SURMAG
VERB	33 56.37	116 43.32	VERBENIA	USGS/JOHNS	SURMAG



SURVEY MAGNETOMETERS

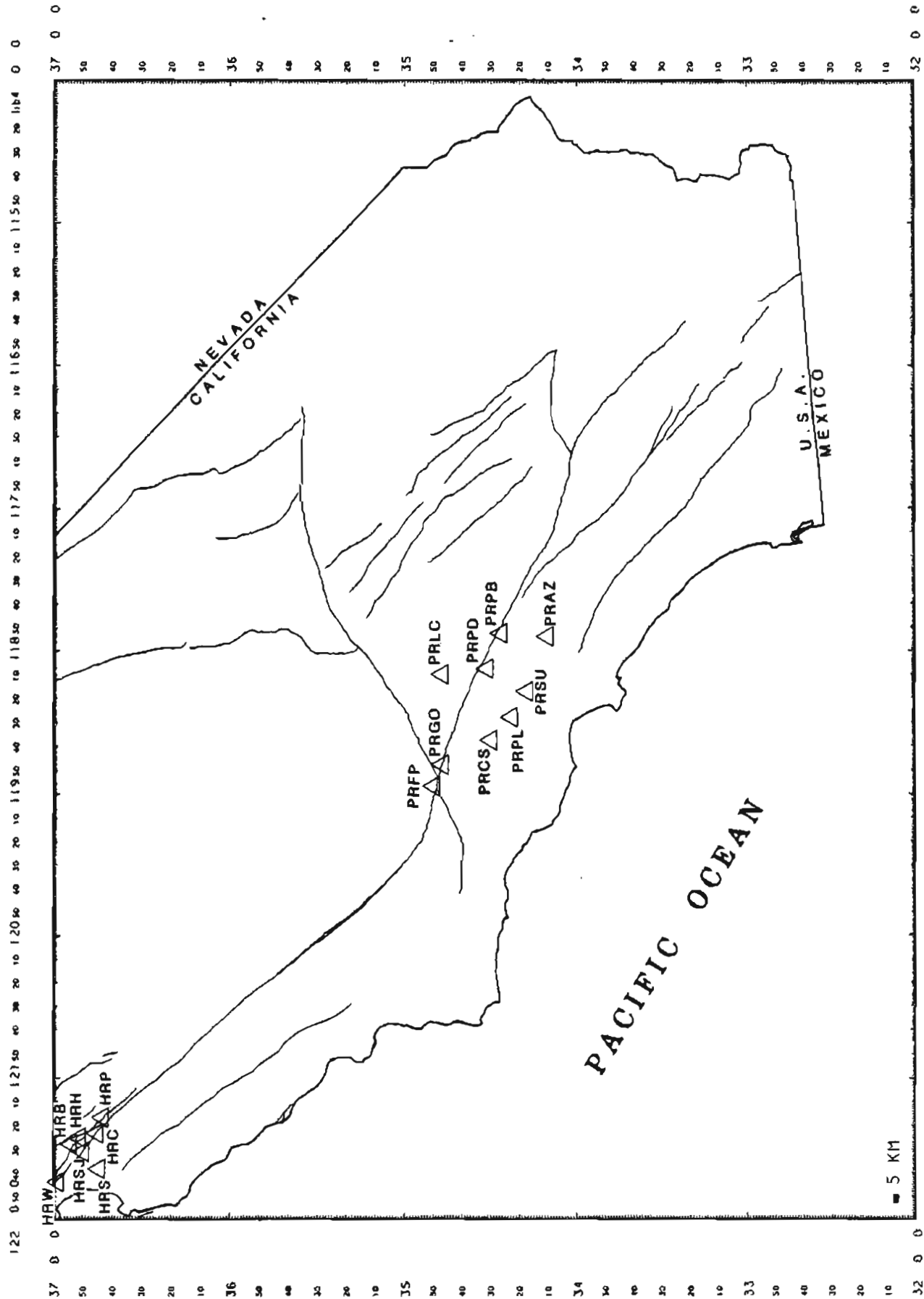


SURVEY MAGNETOMETERS

RESISTIVITY -CALIFORNIA

The resistivity measurements are carried out in two arrays, near Hollister and near Palmdale, using passive arrays to detect telluric signals received on the various dipoles.

ABRV	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT
HRW	36 58.28	121 43.88	CON	WATSONVILLE	MIT/MADDEN	RESIST
HRB	36 54.88	121 27.68	CON	BROOK HOLLOW	MIT/MADDEN	RESIST
HRH	36 51.88	121 25.28	CON	HOLLISTER	MIT/MADDEN	RESIST
HRSJ	36 49.88	121 31.28	CON	SAN JUAN BAUT	MIT/MADDEN	RESIST
HRC	36 45.88	121 23.48	CON	CIENEGA	MIT/MADDEN	RESIST
HRS	36 44.48	121 38.48	CON	SALINAS	MIT/MADDEN	RESIST
HRP	36 43.28	121 16.88	CON	PAICINES	MIT/MADDEN	RESIST
PRPD	34 31.28	118 87.88	CON	PALMDALE	MIT/MADDEN	RESIST
PRLC	34 46.88	118 18.28	CON	LANCASTER	MIT/MADDEN	RESIST
PRPB	34 26.48	117 52.88	CON	PLACERITA	MIT/MADDEN	RESIST
PRPL	34 22.88	118 28.28	CON		MIT/MADDEN	RESIST
PRCS	34 38.88	118 37.88	CON	CASTAIC	MIT/MADDEN	RESIST
PRAZ	34 18.28	117 54.88	CON	AZUSA	MIT/MADDEN	RESIST
PRSU	34 17.48	118 17.48	CON	SUNLAND	MIT/MADDEN	RESIST
PRFP	34 49.88	118 57.88	CON	FRAZIER PARK	MIT/MADDEN	RESIST
PRGO	34 46.88	118 48.88	CON	GORMAN	MIT/MADDEN	RESIST



RESISTIVITY

SEISMOMETERS -CALIFORNIA

VCL 4252. 71N12207. 21W	CRATER LAKE	USGS/LESTER	SEIS
TMO 2648. 19N11724. 29W		USGS/LESTER	SEIS
RSM 3730. 35N11852. 68W	RED SLATE MTN	USGS/LESTER	SEIS
SVP 3742. 90N11748. 03W		USGS/LESTER	SEIS
LCH 3714. 08N11738. 80W		USGS/LESTER	SEIS
MZP 3742. 03N11722. 99W		USGS/LESTER	SEIS
PGE 3620. 56N11703. 57W		USGS/LESTER	SEIS
PPK 3725. 58N11754. 43W		USGS/LESTER	SEIS
CTS 3738. 40N11643. 54W		USGS/LESTER	SEIS
PMC 3725. 58N11754. 43W		USGS/LESTER	SEIS
CAS 3734. 49N11833. 09W	CASA DIABLO MTN	USGS/LESTER	SEIS
AAR 3916. 57N12101. 53W	AIRPORT ROAD SITE	USGS/LESTER	SEIS
ABJ 3909. 90N12111. 47W	BOB JAUREGUI SITE	USGS/LESTER	SEIS
ABR 3708. 11N12129. 21W	BROPHY ROAD SITE	USGS/LESTER	SEIS
ADW 3826. 30N12050. 89W	DRYTOWN WATER DIST.	USGS/LESTER	SEIS
AFD 3856. 88N12058. 34W	FOREST HILLS DIVIDE	USGS/LESTER	SEIS
AFH 3902. 51N12047. 48W	FOREST HILLS SITE	USGS/LESTER	SEIS
AFR 3847. 54N12120. 91W	FIDDYMENT RANCH	USGS/LESTER	SEIS
AQI 3850. 48N12058. 88W	GOLD RUSH INN	USGS/LESTER	SEIS
AHK 3851. 26N12104. 23W	HOWARD F. ROSS	USGS/LESTER	SEIS
ALA 3834. 00N12057. 37W	LATROBE	USGS/LESTER	SEIS
ALN 3855. 78N12117. 27W	LINCOLN	USGS/LESTER	SEIS
ADD 3836. 85N12043. 71W	OUTINGDALE	USGS/LESTER	SEIS
ADH 3922. 52N12115. 36W	OREGON HOUSE	USGS/LESTER	SEIS
APR 3852. 62N12113. 03W	POPPY HILL ROAD	USGS/LESTER	SEIS
ARJ 3941. 19N12057. 38W	ROBERT W. JENSEN	USGS/LESTER	SEIS
ARR 3845. 92N12110. 31W	RICKEY RANCH	USGS/LESTER	SEIS
ARW 3857. 38N12109. 73W	RICHARD P. WILKES	USGS/LESTER	SEIS
AVR 3901. 47N12116. 25W	VALLEY ROAD SITE	USGS/LESTER	SEIS
BAV 3638. 75N12101. 79W	ANTELOPE VALLEY	USGS/LESTER	SEIS
BBQ 3634. 70N12102. 31W	BIG MOUNTAIN	USGS/LESTER	SEIS
BBN 3630. 60N12104. 53W	SAN BENITO	USGS/LESTER	SEIS
BCG 3642. 55N12120. 60W	CIENEGA ROAD	USGS/LESTER	SEIS
BEH 3639. 88N12110. 45W	ELKHORN RANCH	USGS/LESTER	SEIS
BEM 3639. 68N12105. 76W	EMMET	USGS/LESTER	SEIS
BHR 3643. 67N12113. 83W	HODGES RANCH	USGS/LESTER	SEIS
BHG 3621. 35N12132. 39W	HASTINGS	USGS/LESTER	SEIS
BJC 3632. 82N12123. 53W	JOHNSON CANYON	USGS/LESTER	SEIS
BJD 3636. 65N12118. 81W	MOUNT JOHNSON	USGS/LESTER	SEIS
BLR 3639. 96N12116. 36W	LEWIS RANCH	USGS/LESTER	SEIS
BMS 3639. 78N12047. 51W	MERCY HOT SPRINGS	USGS/LESTER	SEIS
BPC 3634. 32N12137. 56W	PINE CANYON	USGS/LESTER	SEIS
BPF 3613. 80N12146. 30W	PFIEFFER POINT	USGS/LESTER	SEIS
BPI 3629. 40N12110. 41W	PINNACLES	USGS/LESTER	SEIS
BPP 3610. 12N12122. 68W	PINION PEAK	USGS/LESTER	SEIS
BRM 3650. 70N12049. 42W	ROLLING BENCH MARK	USGS/LESTER	SEIS
BRV 3625. 49N12101. 10W	LITTLE RABBIT VLY	USGS/LESTER	SEIS
BSC 3638. 50N12119. 59W	STONE CANYON	USGS/LESTER	SEIS
BSE 3624. 83N12115. 22W	SHIRTTAIL GULCH	USGS/LESTER	SEIS
BSL 3646. 53N12120. 96W	SILVA RANCH	USGS/LESTER	SEIS
BSP 3639. 49N12131. 12W	SALINAS RADIO SITE	USGS/LESTER	SEIS
BVL 3634. 51N12111. 34W	BEAR VALLEY	USGS/LESTER	SEIS
BVY 3644. 96N12124. 80W	VINEYARD	USGS/LESTER	SEIS
CAC 3758. 57N12145. 62W	ANTIOCH	USGS/LESTER	SEIS
CAD 3709. 83N12137. 55W	ANDERSON RESERVOIR	USGS/LESTER	SEIS
CAI 3751. 68N12225. 77W	ANGEL ISLAND	USGS/LESTER	SEIS
CAL 3727. 07N12147. 95W	CALAVERAS RESERVOIR	USGS/LESTER	SEIS
CAO 3720. 96N12131. 96W	ARNOLD RANCH	USGS/LESTER	SEIS
CBK 3752. 56N12214. 88W	BERKELEY VAULT	USGS/LESTER	SEIS
CBR 3748. 97N12203. 72W	BOLLINGER CANYON RD	USGS/LESTER	SEIS
CBS 3749. 06N12138. 43W	BYRON HOT SPRINGS	USGS/LESTER	SEIS
CBW 3753. 45N12206. 40W	BROOKWOOD RESERVOIR	USGS/LESTER	SEIS
CCD 3715. 46N12140. 35W	CDE RANCH	USGS/LESTER	SEIS
CCY 3733. 10N12205. 45W	COYOTE HILLS	USGS/LESTER	SEIS

COO 3743. 80N12150. 12W	DOOLAN ROAD	USGS/LESTER	SE19
COU 3801. 78N12200. 05W	DUARTE RANCH	USGS/LESTER	SE19
CLC 3744. 28N12203. 83W	LAKE CHABOT	USGS/LESTER	SE19
CMC 3746. 88N12210. 55W	MILLS COLLEGE	USGS/LESTER	SE19
CMH 3721. 97N12145. 38W	MT HAMILTON ROAD	USGS/LESTER	SE19
CMJ 3731. 25N12152. 23W	MISSION SAN JOSE	USGS/LESTER	SE19
CML 3728. 64N12139. 09W	MOUNT LEWIS	USGS/LESTER	SE19
CMM 3727. 34N12129. 62W	MOUNT MOCHO	USGS/LESTER	SE19
CMO 3748. 68N12148. 15W	MORGAN TERR. ROAD	USGS/LESTER	SE19
CMP 3721. 46N12118. 51W	MIKE'S PEAK	USGS/LESTER	SE19
CMR 3735. 68N12138. 22W	MINES ROAD	USGS/LESTER	SE19
COS 3730. 51N12122. 44W	MOUNT OBO	USGS/LESTER	SE19
CPL 3738. 25N12157. 64W	POLAMARES ROAD	USGS/LESTER	SE19
CRA 3746. 03N12156. 25W	SAN RAMON	USGS/LESTER	SE19
CRF 3754. 75N12154. 33W	RUSSELLMAN PARK	USGS/LESTER	SE19
CSC 3717. 11N12146. 35W	SILVER CREEK	USGS/LESTER	SE19
CSH 3738. 88N12202. 57W	CAL STATE HAYWARD	USGS/LESTER	SE19
CSF 3757. 43N12218. 65W	SAN PABLO RIDGE	USGS/LESTER	SE19
GAR 3897. 31N12215. 13W	ARBUCKLE	USGS/LESTER	SE19
GAX 3842. 65N12245. 30W	ALEXANDER VALLEY	USGS/LESTER	SE19
GBD 3926. 52N12318. 55W	BIG DABBY	USGS/LESTER	SE19
GBQ 3848. 84N12240. 76W	BOGGS MOUNTAIN	USGS/LESTER	SE19
GBM 3908. 51N12229. 64W	BALDY MOUNTAIN	USGS/LESTER	SE19
GCB 3923. 03N12331. 28W	CHAMBERLAIN RIDGE	USGS/LESTER	SE19
GCH 3848. 35N12245. 31W	COBB MOUNTAIN	USGS/LESTER	SE19
QCR 3846. 43N12242. 99W	CASTLE ROCK SPRINGS	USGS/LESTER	SE19
GCS 3901. 37N12331. 27W	COLD SPRING MTN	USGS/LESTER	SE19
QCC 3846. 14N12300. 89W	CLOVERDALE	USGS/LESTER	SE19
GCD 3907. 85N12304. 55W	COW MOUNTAIN	USGS/LESTER	SE19
QDC 3846. 03N12314. 31W	DRY CREEK	USGS/LESTER	SE19
QDX 3848. 46N12247. 63W	GEYSERS DX	USGS/LESTER	SE19
QDL 3853. 80N12246. 58W	GLENVIEW	USGS/LESTER	SE19
GQP 3845. 88N12250. 63W	GEYSERS PEAK	USGS/LESTER	SE19
GGU 3851. 39N12329. 87W	QUALALA	USGS/LESTER	SE19
GHC 3836. 36N12311. 81W	HOUSE CREEK	USGS/LESTER	SE19
QHG 3907. 70N12249. 47W	HOGBACK RIDGE	USGS/LESTER	SE19
QHL 3902. 43N12301. 12W	HIGHLAND SPRINGS	USGS/LESTER	SE19
QHM 3929. 74N12255. 80W	HULL MOUNTAIN	USGS/LESTER	SE19
QHV 3905. 10N12244. 06W	HIGH VALLEY	USGS/LESTER	SE19
GMC 3847. 56N12307. 80W	MCLAUGHLIN RANCH	USGS/LESTER	SE19
QMK 3858. 17N12247. 22W	MT KONOGTI	USGS/LESTER	SE19
QMM 3850. 29N12247. 93W	MAYACAMAS MTS	USGS/LESTER	SE19
GMO 3842. 61N12308. 59W	MOFFITT RANCH	USGS/LESTER	SE19
GNA 3911. 85N12337. 85W	NAVARRO RIDGE	USGS/LESTER	SE19
GPH 3850. 85N12256. 78W	PINE MOUNTAIN	USGS/LESTER	SE19
GRT 3856. 32N12240. 18W	ROUND TOP MTN	USGS/LESTER	SE19
GSO 3852. 00N12242. 60W	SEIGLER MTN	USGS/LESTER	SE19
GSM 3846. 16N12246. 88W	SOCRATES MINE	USGS/LESTER	SE19
GSN 3856. 43N12311. 50W	SNOW MOUNTAIN	USGS/LESTER	SE19
GSS 3842. 12N12300. 81W	SKAGGS SPRINGS	USGS/LESTER	SE19
GTS 3918. 70N12236. 15W	TROUGH SPRING	USGS/LESTER	SE19
GWK 3903. 12N12229. 46W	WALKER RIDGE	USGS/LESTER	SE19
GWR 3912. 43N12317. 99W	WONDER RANCH	USGS/LESTER	SE19
HAZ 3853. 08N12135. 45W	ANZAR ROAD	USGS/LESTER	SE19
HBT 3851. 01N12133. 04W	BAUTISTA	USGS/LESTER	SE19
HCA 3701. 52N12129. 02W	CANADA ROAD	USGS/LESTER	SE19
HCB 3855. 88N12139. 63W	CHAMBERLAIN CAL	USGS/LESTER	SE19
HCD 3853. 31N12142. 34W	CORN COB CANYON	USGS/LESTER	SE19
HCP 3711. 67N12111. 08W	CREVISON PEAK	USGS/LESTER	SE19
HCR 3857. 46N12135. 01W	CHASE RANCH	USGS/LESTER	SE19
HDL 3850. 12N12138. 64W	DILLON RANCH	USGS/LESTER	SE19
HFE 3859. 00N12124. 09W	SAN FELIPE	USGS/LESTER	SE19
HFH 3853. 29N12128. 13W	FLINT HILLS	USGS/LESTER	SE19
HFP 3805. 22N12129. 43W	FREMONT PEAK	USGS/LESTER	SE19

HGS	3705.	75N12126.	83W	GILROY HOT SPRINGS	USGS/LESTER	SEIS
HGW	3701	02N12139.	02W	GILROY WEST	USGS/LESTER	SEIS
HJG	3647.	88N12134.	43W	SAN JUAN GRADE	USGS/LESTER	SEIS
HJS	3648.	99N12117.	92W	JOHN SMITH RD	USGS/LESTER	SEIS
HKR	3654.	10N12125.	56W	KINCAID RANCH	USGS/LESTER	SEIS
HLT	3653.	07N12118.	49W	LONE TREE RD	USGS/LESTER	SEIS
HMD	3636.	03N12159.	06W	MONTEREY	USGS/LESTER	SEIS
HQR	3655.	03N12130.	46W	O'CONNELL RANCH	USGS/LESTER	SEIS
HPH	3651.	38N12124.	37W	PARK HILL	USGS/LESTER	SEIS
HPL	3703.	13N12117.	40W	PACHECO LAKE	USGS/LESTER	SEIS
HPR	3657.	19N12141.	70W	PECKHAM RD	USGS/LESTER	SEIS
HGR	3650.	02N12112.	76W	QUIEN SABE RANCH	USGS/LESTER	SEIS
HSE	3648.	72N12129.	97W	ST FRANCIS RETREAT	USGS/LESTER	SEIS
HSL	3701	16N12105.	13W	SAN LUIS DAM	USGS/LESTER	SEIS
HSP	3706.	91N12130.	94W	SHEEP	USGS/LESTER	SEIS
JAL	3709.	50N12150.	82W	ALMADEN RESERVOIR	USGS/LESTER	SEIS
JBC	3709.	62N12201.	97W	BEAR CREEK RD	USGS/LESTER	SEIS
JBG	3720.	52N12220.	34W	BEAR GULCH RD	USGS/LESTER	SEIS
JBL	3707.	67N12209.	98W	CAMP BEN LOMOND	USGS/LESTER	SEIS
JBM	3719.	09N12209.	16W	BLACK MTN	USGS/LESTER	SEIS
JBZ	3701.	07N12149.	15W	BUZZARD LAGOON	USGS/LESTER	SEIS
JCB	3706.	71N12141.	33W	CHESSBO RESERVOIR	USGS/LESTER	SEIS
JEC	3703.	04N12148.	56W	EUREKA CANYON RD	USGS/LESTER	SEIS
JEG	3730.	84N12227.	74W	EL GRANADA	USGS/LESTER	SEIS
JHL	3706.	56N12149.	95W	HOLMSTROM RANCH	USGS/LESTER	SEIS
JHP	3726.	65N12218.	09W	HUDDART PARK	USGS/LESTER	SEIS
JLT	3721.	22N12212.	25W	LOS TRANCOS WOODS	USGS/LESTER	SEIS
JLY	3712.	11N12159.	17W	LEXINGTON RESERVOIR	USGS/LESTER	SEIS
JMG	3738.	22N12228.	43W	MILAGRA RIDGE	USGS/LESTER	SEIS
JPL	3658.	62N12149.	93W	PLEASANT VALLEY	USGS/LESTER	SEIS
JPP	3715.	81N12212.	78W	PORTOLA STATE PARK	USGS/LESTER	SEIS
JPR	3747.	70N12228.	43W	PRESIDIO	USGS/LESTER	SEIS
JPS	3711.	94N12220.	90W	PESCADERO	USGS/LESTER	SEIS
JRG	3702.	22N12157.	86W	RODOL GULCH RD	USGS/LESTER	SEIS
JRR	3703.	27N12143.	61W	REDWOOD RETREAT	USGS/LESTER	SEIS
JSA	3734.	95N12225.	03W	SAN ANDREAS CA	USGS/LESTER	SEIS
JSC	3717.	07N12207.	42W	STEVENS CREEK	USGS/LESTER	SEIS
JSF	3724.	31N12210.	55W	STANFORD TELESCOPE	USGS/LESTER	SEIS
JSG	3716.	96N12203.	00W	SARATOGA GOLF COURSE	USGS/LESTER	SEIS
JSJ	3720.	03N12205.	48W	ST JOSEPH SEMINARY	USGS/LESTER	SEIS
JSM	3712.	74N12210.	06W	SAWMILL RD	USGS/LESTER	SEIS
JSS	3710.	17N12155.	84W	SODA SPRINGS RD	USGS/LESTER	SEIS
JST	3712.	41N12147.	84W	SANTA TERESA HILLS	USGS/LESTER	SEIS
JTG	3701.	71N12192.	58W	TROUT GULCH RD	USGS/LESTER	SEIS
JUC	3700.	07N12202.	91W	UC SANTA CRUZ	USGS/LESTER	SEIS
KBB	4011.	82N12351.	00W	BEAR BUTTES	USGS/LESTER	SEIS
KBN	3653.	56N12311.	64W	BLUENOSE RIDGE	USGS/LESTER	SEIS
KBR	4043.	79N12357.	34W	BARRY RIDGE	USGS/LESTER	SEIS
KBS	3955.	07N12335.	68W	BELL SPRINGS	USGS/LESTER	SEIS
KCP	3941.	24N12334.	66W	CHATO PEAK	USGS/LESTER	SEIS
KCR	4025.	58N12349.	11W	CHALK ROCK	USGS/LESTER	SEIS
KCT	4028.	55N12420.	18W	CAPE TOWN	USGS/LESTER	SEIS
KFP	3978.	35N12325.	44W	FARLEY PEAK	USGS/LESTER	SEIS
KGM	4045.	53N12340.	46W	GROUSE MTN	USGS/LESTER	SEIS
KIP	3948.	52N12328.	83W	IRON PEAK	USGS/LESTER	SEIS
KKP	4008.	75N12328.	10W	KETTENPOM PEAK	USGS/LESTER	SEIS
KMP	4025.	04N12407.	21W	MOUNT PIERCE	USGS/LESTER	SEIS
KOM	4116.	73N12327.	13W	ORLEANS MTN	USGS/LESTER	SEIS
KPP	4020.	76N12321.	73W	PICKETT PEAK	USGS/LESTER	SEIS
KRM	4131.	31N12354.	31W	RED MTN	USGS/LESTER	SEIS
KRK	3933.	77N12310.	93W	RACKOUT SPRINGS	USGS/LESTER	SEIS
KRP	4109.	49N12401.	38W	RODGERS	USGS/LESTER	SEIS
KSM	4011.	15N12410.	48W	SLIDE MTN	USGS/LESTER	SEIS
KBP	3931.	04N12330.	09W	SHERWOOD PEAK	USGS/LESTER	SEIS

KSX 4149	85N12352.55W	CAMP SIX	USGS/LESTER	SE15
LBF 4120	82N12153.42W	BLACK FOX MTN	USGS/LESTER	SE15
LBG 4048	14N12235.38W	BIG GULCH	USGS/LESTER	SE15
LBK 4105	05N12239.91W	BONANZA KING	USGS/LESTER	SE15
LBH 4043	97N12221.95W	BASS MTN	USGS/LESTER	SE15
LBP 4019	10N12252.88W	BEECHUM PEAK	USGS/LESTER	SE15
LCA 4110	13N12216.37W	CASTELLA	USGS/LESTER	SE15
LCF 4029	18N12131.44W	CRESENT CLIFF	USGS/LESTER	SE15
LCM 4008	79N12131.26W	COLBY MTN	USGS/LESTER	SE15
LCS 4124	97N12223.55W	COL OF SISKIY	USGS/LESTER	SE15
LDB 4025	90N12147.08W	DIGGER BUTTE	USGS/LESTER	SE15
LGB 4120	71N12211.66W	GRAY BUTTE	USGS/LESTER	SE15
LGP 4054	75N12249.71W	GRANITE PEAK	USGS/LESTER	SE15
LHC 4048	30N12130.84W	HAT CREEK	USGS/LESTER	SE15
LHE 4137	71N12213.83W	HERD PEAK	USGS/LESTER	SE15
LHK 4026	12N12116.67W	MT HARKNESS	USGS/LESTER	SE15
LHM 4053	81N12214.70W	HIRTZ MTN	USGS/LESTER	SE15
LHO 4041	11N12245.00W	HOADLEY PEAKS	USGS/LESTER	SE15
LHM 4134	74N12139.44W	LITTLE MT HOFFMAN	USGS/LESTER	SE15
LMP 4129	30N12209.69W	MILITARY PASS	USGS/LESTER	SE15
LMZ 4032	73N12133.84W	MANZANITA LAKE	USGS/LESTER	SE15
LPD 4111	72N12141.76W	PONDOSA	USGS/LESTER	SE15
LRD 4027	78N12127.85W	READING PEAK	USGS/LESTER	SE15
LSH 4047	59N12202.29W	SAGE HEN HILL	USGS/LESTER	SE15
LSL 4025	64N12132.05W	SOUTH LASSEN	USGS/LESTER	SE15
LTC 4012	50N12207.45W	TUSCAN SPRINGS	USGS/LESTER	SE15
LTN 4136	33N12135.13W	TENNANT	USGS/LESTER	SE15
LWD 4036	71N12231.64W	WHISKEYTOWN DAM	USGS/LESTER	SE15
LWH 4038	66N12156.70W	WHITMORE	USGS/LESTER	SE15
LWP 4035	65N12122.73W	W PROSPECT PK	USGS/LESTER	SE15
MAT 3752	40N11952.00W	MATHER	USGS/LESTER	SE15
MCH 3801	12N12030.57W	CARSON HILL	USGS/LESTER	SE15
MCU 3758	36N12037.02W	COPPEROPOLIS	USGS/LESTER	SE15
MDE 3732	43N12036.78W	DENAIR	USGS/LESTER	SE15
MEC 3748	14N12059.02W	ESCALON	USGS/LESTER	SE15
MHD 3707	25N11954.23W	HIDDEN DAM	USGS/LESTER	SE15
MMW 3803	83N12010.89W	MIWUK VILLAGE	USGS/LESTER	SE15
MNH 3308	75N12048.82W	NEW HOGAN RESERVOIR	USGS/LESTER	SE15
MNP 3724	90N11943.70W	NIPINAWASSEE	USGS/LESTER	SE15
MOY 3754	00N12034.04W	OBRIAN FERRY	USGS/LESTER	SE15
MRF 3814	72N12031.24W	RAILROAD FLAT RD	USGS/LESTER	SE15
MSN 3711	19N12029.83W	SOUTH MERCED	USGS/LESTER	SE15
MST 3754	27N12024.29W	STENT	USGS/LESTER	SE15
MTG 3733	68N12006.26W	TRABUCCO GARDENS	USGS/LESTER	SE15
MYL 3722	68N12025.18W	YOSEMITE LAKE	USGS/LESTER	SE15
NBP 3840	07N12211.60W	BERRYESSA PEAK	USGS/LESTER	SE15
NBR 3815	65N12232.99W	GEEBE RANCH	USGS/LESTER	SE15
NCF 3819	28N12247.73W	CANFIELD RD	USGS/LESTER	SE15
NDH 3845	93N12154.75W	DUNNICAN HILLS	USGS/LESTER	SE15
NFI 3741	90N12300.00W	FARALLONES ISLAND	USGS/LESTER	SE15
NFR 3831	36N12309.66W	FORT ROSS	USGS/LESTER	SE15
NGV 3816	84N12212.89W	GREEN VALLEY RD	USGS/LESTER	SE15
NMB 3835	36N12254.54W	HEALDSBURG	USGS/LESTER	SE15
NMH 3809	28N12148.02W	HAMILTON RANCH	USGS/LESTER	SE15
NLH 3907	19N12208.87W	LAKE HERMAN	USGS/LESTER	SE15
NLN 3809	15N12242.75W	LINCOLN SCHOOL	USGS/LESTER	SE15
NMH 3940	17N12237.93W	MT ST HELENA	USGS/LESTER	SE15
NMT 3848	34N12226.76W	MIDDLETOWN	USGS/LESTER	SE15
NMW 3833	03N12243.37W	MARK W SPRINGS	USGS/LESTER	SE15
NOL 3802	50N12247.62W	OLIMA CA	USGS/LESTER	SE15
NPR 3759	79N12300.98W	POINT REYES	USGS/LESTER	SE15
NSH 3831	20N12236.43W	ST HELENA RD	USGS/LESTER	SE15
NSP 3810	96N12227.20W	SEARS POINT	USGS/LESTER	SE15
NTA 3755	43N12235.70W	TAMALPAIS PK	USGS/LESTER	SE15

NTJ 3814. 87N12255. 86W	TOMALES BAY	USGS/LESTER	SE15
NTM 3823. 15N12240. 83W	TAYLOR MTN	USGS/LESTER	SE15
NVA 3824. 03N12206. 31W	MT VACA	USGS/LESTER	SE15
NVE 3822. 36N12226. 17W	MT VEEDER	USGS/LESTER	SE15
NWR 3827. 42N12253. 26W	WRIGHT RANCH	USGS/LESTER	SE15
OGH 3839. 22N12127. 64W	BLOOMER HILL	USGS/LESTER	SE15
OCH 3852. 55N12145. 90W	COHASSET RIDGE	USGS/LESTER	SE15
OGD 3839. 22N12136. 72W	VAN GOODIN RANCH	USGS/LESTER	SE15
OHG 4920. 18N12129. 05W	HONCUT CREEK	USGS/LESTER	SE15
ORA 3928. 13N12124. 80W	RATTLESNAKE PEAK	USGS/LESTER	SE15
ORD 3933. 33N12130. 00W	ORDVILLE DAM	USGS/LESTER	SE15
OST 3922. 22N12135. 11W	STIMPSON RD	USGS/LESTER	SE15
OSU 3914. 23N12151. 10W	SUTTER BUTTES	USGS/LESTER	SE15
OTB 3932. 75N12133. 65W	TABLE MTN	USGS/LESTER	SE15
OWY 3927. 19N12129. 20W	WYANDOITE	USGS/LESTER	SE15
PAD 3538. 36N12051. 86W	ADELAIDA	USGS/LESTER	SE15
PAG 3943. 92N12014. 96W	ANTELOPE GRADE	USGS/LESTER	SE15
PAN 3346. 78N12054. 44W	SAN ANTONIO RES	USGS/LESTER	SE15
PAP 3554. 77N12121. 70W	ALDER PEAK	USGS/LESTER	SE15
PAR 3614. 45N12020. 52W	ANTICLINE RIDGE	USGS/LESTER	SE15
PAV 3510. 55N12037. 95W	AVILLA RANCH	USGS/LESTER	SE15
PBI 3909. 68N12028. 42W	BIDDLE	USGS/LESTER	SE15
PBR 3522. 91N12100. 54W	BASSETTI RANCH	USGS/LESTER	SE15
PBW 3618. 90N12055. 75W	BITTERWATER CREEK	USGS/LESTER	SE15
PBY 3548. 90N12104. 89W	BRYSON	USGS/LESTER	SE15
PCA 3553. 90N12020. 22W	CASTLE MTN	USGS/LESTER	SE15
PCG 3523. 52N12044. 34W	CERRO ALTO CAMPORD	USGS/LESTER	SE15
PCR 3405. 63N12026. 08W	CURRY MTN	USGS/LESTER	SE15
PDR 3420. 14N12022. 12W	DOMENGINE RANCH	USGS/LESTER	SE15
PQC 3910. 67N12036. 98W	GRACE EAST	USGS/LESTER	SE15
PQH 3549. 86N12021. 17W	GOLD HILL	USGS/LESTER	SE15
PQW 3511. 03N12037. 62W	GRACE WEST	USGS/LESTER	SE15
PHA 3550. 16N12023. 91W	HARLAN RANCH	USGS/LESTER	SE15
PHB 3614. 93N12004. 96W	HURON FISHING BRIDGE	USGS/LESTER	SE15
PHC 3540. 93N12109. 15W	HEARST CASTLE	USGS/LESTER	SE15
PHG 3552. 56N12029. 01W	HOG CANYON	USGS/LESTER	SE15
PHR 3522. 38N12049. 10W	HERNANDEZ VALLEY	USGS/LESTER	SE15
PIV 3554. 39N12040. 94W	INDIAN VALLEY	USGS/LESTER	SE15
PJL 3605. 39N12109. 33W	JOLON ROAD	USGS/LESTER	SE15
PKE 3603. 69N12006. 54W	KETTLEMAN HILLS	USGS/LESTER	SE15
PLD 3614. 79N12102. 55W	LONOAK ROAD	USGS/LESTER	SE15
PMC 3543. 48N12022. 23W	MCMILLAN CANYON	USGS/LESTER	SE15
PMG 3525. 79N12031. 22W	SANTA MARGARITA	USGS/LESTER	SE15
PML 3453. 70N12036. 51W	MT LOSPE	USGS/LESTER	SE15
PMF 3612. 91N12047. 69W	MONARCH PK	USGS/LESTER	SE15
PMR 3547. 09N12014. 14W	MAXIE RANCH	USGS/LESTER	SE15
PPF 3552. 91N12024. 81W	PARKFIELD	USGS/LESTER	SE15
PPR 3538. 83N12042. 04W	PASO ROBLES	USGS/LESTER	SE15
PPT 3606. 50N12043. 27W	PEACH TREE VLY	USGS/LESTER	SE15
PRC 3615. 37N12037. 20W	ROACH CANYON	USGS/LESTER	SE15
PSA 3601. 52N12053. 30W	SAN ARDO	USGS/LESTER	SE15
PSE 3514. 71N12045. 88W	SEE CANYON	USGS/LESTER	SE15
PSH 3535. 45N12024. 92W	SHANDON	USGS/LESTER	SE15
PSM 3604. 18N12035. 68W	SMITH MTN	USGS/LESTER	SE15
PSR 3551. 47N12016. 81W	SCOBIE RANCH	USGS/LESTER	SE15
PST 3556. 48N12031. 53W	STOCKDALE MTN	USGS/LESTER	SE15
PTJ 3434. 88N12034. 29W	TRANQUILLION MTN	USGS/LESTER	SE15
PTR 3539. 28N12012. 67W	TWISSEMAN RANCH	USGS/LESTER	SE15
PWK 3548. 87N12030. 67W	WORK RANCH	USGS/LESTER	SE15
PWM 3625. 97N12012. 66W	WESTLAND MAINT STA	USGS/LESTER	SE15
SCC 3456. 38N12010. 32W	COLSON CANYON	USGS/LESTER	SE15
SLC 3429. 79N11942. 81W	LA CUMBRE PEAK	USGS/LESTER	SE15
SLP 3433. 57N12024. 02W	LOMPDC	USGS/LESTER	SE15
SSM 3402. 24N12021. 01W	SAN MIGUEL ISLAND	USGS/LESTER	SE15

TBH 3511. 10N12005. 05W	BRANCH MTN	USGS/LESTER	SE18
TBM 3508. 15N11835. 81W	BEAR MTN	USGS/LESTER	SE18
TCG 3514. 53N11943. 40W	CROCKER GRADE	USGS/LESTER	SE18
TFT 3452. 25N11853. 51W	FORT TEJON	USGS/LESTER	SE18
TMA 3451. 05N11913. 25W	MOUNT ABEL	USGS/LESTER	SE18
TPM 3453. 75N11949. 13W	PEAK MTN	USGS/LESTER	SE18
TRP 3438. 60N11921. 10W	REYES PEAK	USGS/LESTER	SE18
TTR 3505. 24N11932. 08W	TEMBLOR RANGE	USGS/LESTER	SE18
TYO 3526. 18N11957. 56W	YEGUAS MTN	USGS/LESTER	SE18
WAB 3544. 29N11833. 42W	ALTA SIERRA	USGS/LESTER	SE18
WBM 3536. 48N11753. 40W	BRECKENRIDGE MTN	USGS/LESTER	SE18
TOW 3548. 50N11745. 90W	TOWER	USGS/LESTER	SE18
WBS 3532. 22N11808. 37W	BIRD SPRING	USGS/LESTER	SE18
WCH 3552. 98N11804. 48W	CHIMNEY PEAK	USGS/LESTER	SE18
WCD 3437. 35N11826. 25W	COOK PEAK	USGS/LESTER	SE18
WCS 3601. 58N11746. 01W	COSO HOT SPRINGS	USGS/LESTER	SE18
WCX 3542. 63N11735. 98W	CHINA LAKE RADIO	USGS/LESTER	SE18
WHF 3541. 77N11820. 91W	HANNING FLAT	USGS/LESTER	SE18
WHS 3606. 30N11745. 67W	HAIWEE SPRINGS	USGS/LESTER	SE18
WHV 3530. 60N11831. 07W	HAVILAH	USGS/LESTER	SE18
WJP 3524. 65N11828. 84W	JOHNS PEAK	USGS/LESTER	SE18
WKT 3547. 64N11826. 55W	KERN-TULARE	USGS/LESTER	SE18
WNM 3550. 57N11754. 29W	NINEMILE CANYON	USGS/LESTER	SE18
WOF 3532. 14N11842. 75W	OAK FLAT	USGS/LESTER	SE18
WOR 3541. 79N11814. 52W	ONYX RANCH	USGS/LESTER	SE18
WRC 3557. 04N11738. 89W	RENEGADE CANYON	USGS/LESTER	SE18
WSH 3537. 96N11729. 50W		USGS/LESTER	SE18
WVP 3556. 98N11749. 02W	VOLCANO PEAK	USGS/LESTER	SE18
WWP 3544. 13N11805. 22W	WALKER PASS	USGS/LESTER	SE18
DMP 3742. 43N11902. 75W	MAMMOTH	USGS/COCKER	SE18
SKI 3739. 18N11901. 43W	MAMMOTH	USGS/COCKER	SE18
MMP 3736. 60N11901. 68W	MAMMOTH	USGS/COCKER	SE18
MAT 3752. 40N11952. 00W	MAMMOTH	USGS/COCKER	SE18
MHP 3724. 22N11943. 51W	MAMMOTH	USGS/COCKER	SE18
BNY 3738. 45N11856. 63W	MAMMOTH	USGS/COCKER	SE18
CEN 3738. 03N11855. 63W	MAMMOTH	USGS/COCKER	SE18
CHS 3739. 30N11854. 27W	MAMMOTH	USGS/COCKER	SE18
CLK 3735. 41N11849. 45W	MAMMOTH	USGS/COCKER	SE18
CSR 3740. 66N11849. 10W	MAMMOTH	USGS/COCKER	SE18
CSW 3738. 65N11855. 69W	MAMMOTH	USGS/COCKER	SE18
CWA 3736. 59N11852. 40W	MAMMOTH	USGS/COCKER	SE18
DOE 3732. 32N11850. 13W	MAMMOTH	USGS/COCKER	SE18
EMH 3739. 98N11856. 35W	MAMMOTH	USGS/COCKER	SE18
GRP 3737. 59N11854. 08W	MAMMOTH	USGS/COCKER	SE18
LOC 3736. 63N11854. 95W	MAMMOTH	USGS/COCKER	SE18
LLK 3634. 73N11854. 30W	MAMMOTH	USGS/COCKER	SE18
LMC 3743. 73N11856. 79W	MAMMOTH	USGS/COCKER	SE18
MDW 3737. 88N11854. 97W	MAMMOTH	USGS/COCKER	SE18
MLK 3739. 86N11852. 50W	MAMMOTH	USGS/COCKER	SE18
SMH 3730. 64N11852. 93W	MAMMOTH	USGS/COCKER	SE18
SHL 3737. 00N11857. 30W	MAMMOTH	USGS/COCKER	SE18
TAC 3737. 90N11857. 90W	MAMMOTH	USGS/COCKER	SE18
YMC 3737. 53N11856. 17W	MAMMOTH	USGS/COCKER	SE18
ABL 3451. 05N11913. 25W	MT ABEL	USGS/JHNSN	SE18
ADL 3433. 38N11725. 02W	ADELANTO	USGS/JHNSN	SE18
AMS 3308. 48N11515. 25W	AMOS	USGS/JHNSN	SE18
ARV 3507. 63N11849. 76W	ARVIN	USGS/JHNSN	SE18
BAR 3240. 80N11640. 30W	BARRETT DAM	CIT/ JHNSN	SE18
BAT 3327. 54N11550. 46W	BAT CAVE BUTTE	USGS/JHNSN	SE18
BCH 3511. 10N12005. 05W	BRANCH MTN	USGS/JHNSN	SE18
BC2 3339. 42N11527. 67W	BIG CHUCKWALL	USGS/JHNSN	SE18
BLK 3505. 28N11713. 11W	BLACK MOUNTAIN	USGS/JHNSN	SE18
BLU 3424. 40N11743. 61W	BLUE RIDGE	USGS/JHNSN	SE18
BMT 3508. 13N11835. 81W	BEAR MTN	USGS/JHNSN	SE18

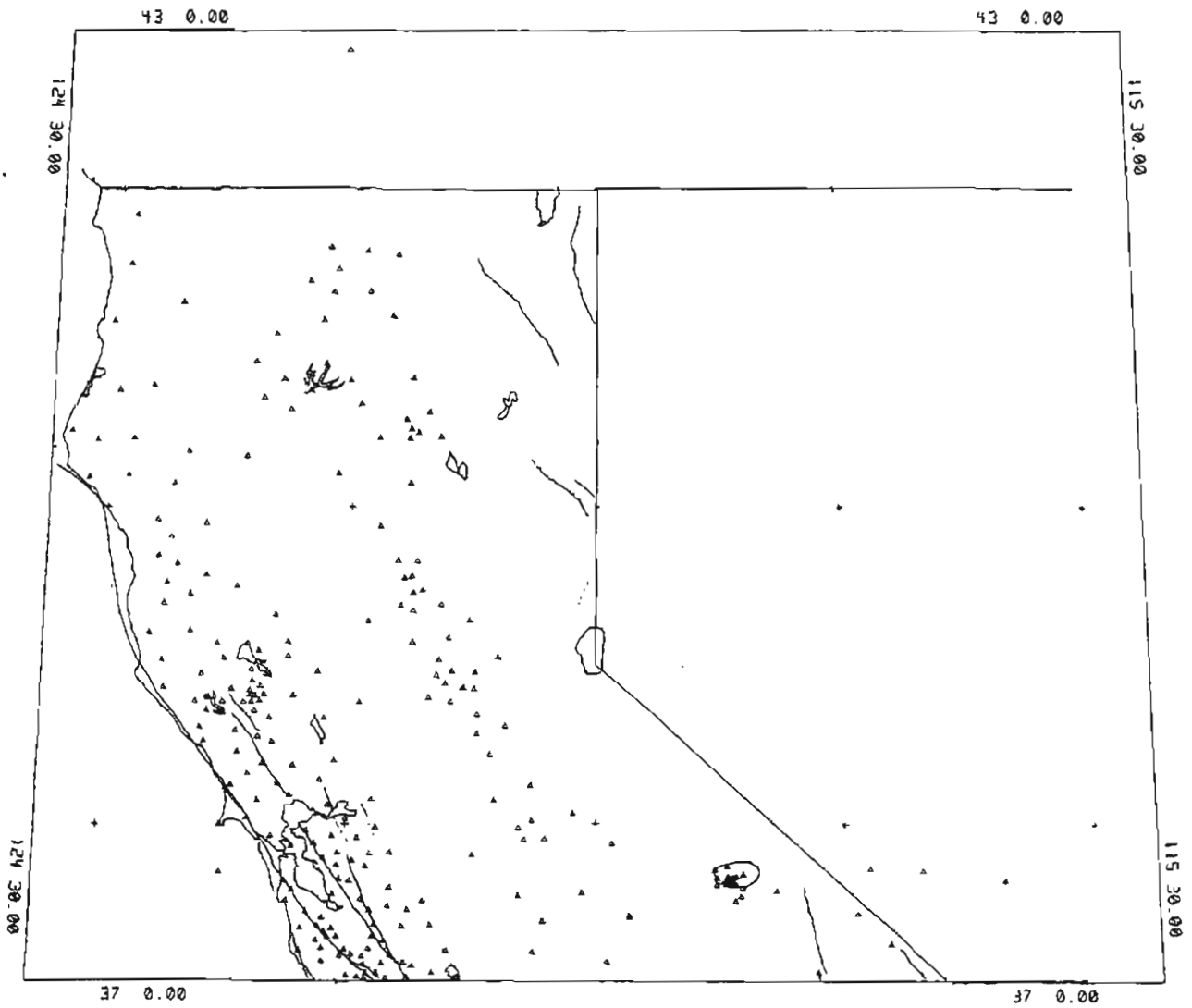
BON 3241. 67N11516. 11W	BONDS CORNER	USGS/JHNSN	SEIS
BOD 3252. 08N11754. 62W	50 BASE BOOSTER	USGS/JHNSN	SEIS
BRQ 3310. 27N11610. 44W	BORREGO MTN	USGS/JHNSN	SEIS
BRT 3436. 69N11757. 78W	BERTELL RANCH	USGS/JHNSN	SEIS
BSC 3243. 49N11502. 64W	BROCKS FARM	USGS/JHNSN	SEIS
BTL 3415. 43N11700. 29W	BUTLER PK	USGS/JHNSN	SEIS
CAM 3230. 22N11641. 91W	CAHUILLA VLY	USGS/JHNSN	SEIS
CAL 3506. 21N11756. 86W	CALIFORNIA CITY	USGS/JHNSN	SEIS
CAH 3503. 14N11630. 35W	CAMARILLO HLS	USGS/JHNSN	SEIS
CBA 3253. 97N11615. 10W	CAVE MTN	USGS/JHNSN	SEIS
CFL 3419. 97N11601. 38W	CANEBRAKE	CITY/ JHNSN	SEIS
CFT 3402. 11N11706. 66W	CHILAD FLAT	USGS/JHNSN	SEIS
CH2 3317. 77N11520. 17W	CRAFTON HILLS	USGS/JHNSN	SEIS
CIS 3224. 40N11824. 20W	CHOCOLATE HLS	CITY/ JHNSN	SEIS
CJV 3431. 83N11808. 67W	STA CATALINA	USGS/JHNSN	SEIS
CLC 3549. 00N11735. 80W	CASA JUVAN	USGS/JHNSN	SEIS
CLI 3508. 45N11531. 64W	COOK CANYON	USGS/JHNSN	SEIS
CDA 3251. 81N11507. 36W	CHINA LAKE	CITY/ JHNSN	SEIS
CDK 3250. 95N11543. 61W	CALIPATRIA	USGS/JHNSN	SEIS
CDQ 3351. 63N11730. 58W	COACHELLA	USGS/JHNSN	SEIS
COV 3321. 84N11618. 63W	COOK RANCH	USGS/JHNSN	SEIS
CDE 3350. 83N11520. 68W	CORONA QUARRY	USGS/JHNSN	SEIS
CPE 3252. 80N11706. 00W	COYOTE MTN	USGS/JHNSN	SEIS
CPM 3409. 24N11611. 80W	CDXCOMB MNS	CITY/ JHNSN	SEIS
CPT 3318. 20N11720. 40W	CAMP ELLIOT	USGS/JHNSN	SEIS
CRG 3314. 53N11943. 40W	COPPER MTN	USGS/JHNSN	SEIS
CRR 3253. 18N11558. 10W	CAMP PENDLETO	USGS/JHNSN	SEIS
CTW 3340. 78N11952. 31W	CROCKER GRADE	USGS/JHNSN	SEIS
CWC 3226. 35N11804. 48W	CARRIZO MTN	USGS/JHNSN	SEIS
DB2 3244. 10N11703. 72W	COTTONWOOD MT	USGS/JHNSN	SEIS
DBM 3458. 74N11821. 63W	COTTONWOOD CK	CITY/ JHNSN	SEIS
DTP 3516. 09N11750. 72W	DOUBLE BUTTE	USGS/JHNSN	SEIS
EAG 3350. 94N11528. 39W	DOUBLE MTN.	USGS/JHNSN	SEIS
ECF 3427. 48N11905. 44W	DESERT TORTOISE	USGS/JHNSN	SEIS
ELM 3431. 57N11738. 41W	EAGLE MTN	USGS/JHNSN	SEIS
EMS 3244. 48N11459. 27W	ECHO FALLS	USGS/JHNSN	SEIS
ELR 3508. 84N11549. 95W	EL MIRAGE	USGS/JHNSN	SEIS
ELS 3338. 87N11729. 63W	EAST MESA	USGS/JHNSN	SEIS
ERP 3244. 61N11539. 76W	ELMORE RANCH	USGS/JHNSN	SEIS
EWG 3526. 24N11626. 86W	ELSINORE MTN	USGS/JHNSN	SEIS
FLS 3458. 23N11702. 32W	ERNIES PLACE	USGS/JHNSN	SEIS
FAL 3418. 59N11748. 55W	E WIDE CANYON	USGS/JHNSN	SEIS
FIL 3425. 43N11850. 07W	FLASH PEAK	USGS/JHNSN	SEIS
FOX 3443. 98N11813. 84W	FALLING SPQ	USGS/JHNSN	SEIS
FRG 3235. 43N11603. 69W	FILMORE	USGS/JHNSN	SEIS
FTC 3452. 25N11853. 51W	FOX AIRPORT	USGS/JHNSN	SEIS
GAL 3512. 82N11745. 28W	FARGO CANYON	USGS/JHNSN	SEIS
GAV 3401. 35N11730. 74W	FRANK	USGS/JHNSN	SEIS
SLA 3303. 10N11449. 60W	FORT TEJON	USGS/JHNSN	SEIS
GRP 3448. 26N11536. 27W	GALILEO	USGS/JHNSN	SEIS
GSC 3518. 10N11648. 30W	GLEN AVON	USGS/JHNSN	SEIS
HAY 3242. 40N11538. 30W	GLAMIS	CITY/ JHNSN	SEIS
HDO 3425. 73N11618. 30W	GRANITE PASS	USGS/JHNSN	SEIS
HQD 3450. 33N11714. 75W	GOLDSTONE	CITY/ JHNSN	SEIS
HOT 3318. 84N11634. 89W	HAYFIELD	CITY/ JHNSN	SEIS
HVS 3451. 63N11734. 12W	HIDALGO MTN	USGS/JHNSN	SEIS
IKP 3238. 93N11606. 48W	HODGE	USGS/JHNSN	SEIS
IND 3348. 97N11613. 78W	HOT SPRINGS H	USGS/JHNSN	SEIS
ING 3259. 30N11518. 61W	HAYSTACK BUTTE	USGS/JHNSN	SEIS
IN6 3356. 14N11611. 66W	INDIO HILLS	CITY/ JHNSN	SEIS
IRC 3423. 40N11824. 00W	INGRAM RANCH	USGS/JHNSN	SEIS
	INSPIRATION	USGS/JHNSN	SEIS
	IRON CANYON	USGS/JHNSN	SEIS

IRN 3409. 60N11511. 04W	IRON MTN	USGS/JHNSN	SEIS
IRS 3311. 45N11525. 75W	IRIS	USGS/JHNSN	SEIS
ISA 3509. 80N11828. 40W	ISABELLA LK	CIT/ JHNSN	SEIS
JFS 3521. 06N11740. 33W	JOSEPH P. STATEN	USGS/JHNSN	SEIS
JNH 3426. 85N11757. 27W	JUNIPER HILLS	USGS/JHNSN	SEIS
JTR 3348. 84N11636. 77W	JOSHUA TREE PK	USGS/JHNSN	SEIS
JUL 3302. 90N11636. 77W	JULIAN	USGS/JHNSN	SEIS
KEE 3338. 30N11639. 19W	KEEN CAMP	USGS/JHNSN	SEIS
KYP 3406. 11N11852. 77W	KEY POINT	USGS/JHNSN	SEIS
LAN 3443. 62N11803. 06W	LANCASTER	USGS/JHNSN	SEIS
LAQ 3337. 68N11616. 78W	LA QUINTA	USGS/JHNSN	SEIS
LAV 3445. 95N11617. 19W	LAVIC	USGS/JHNSN	SEIS
LED 3428. 06N11556. 19W	LEAD MTN	USGS/JHNSN	SEIS
LEO 3437. 88N11818. 22W	LEONA VLY	USGS/JHNSN	SEIS
LHU 3440. 30N11824. 70W	LAKE HUGHES	USGS/JHNSN	SEIS
LJB 3435. 46N11750. 88W	LOVEJOY BUTTE	USGS/JHNSN	SEIS
LLA 3450. 73N11729. 13W	LLANO	USGS/JHNSN	SEIS
LLO 3443. 47N11905. 48W	LOCKWOOD VLY	USGS/JHNSN	SEIS
LRM 3528. 64N11741. 35W	LAUREL MTN	USGS/JHNSN	SEIS
LRR 3431. 56N11801. 66W	LITTLOCK RE	USGS/JHNSN	SEIS
LTC 3329. 34N11504. 20W	LITTLE CHUCKW	USGS/JHNSN	SEIS
LTM 3354. 90N11455. 10W	LITTLE MARIA	USGS/JHNSN	SEIS
MAR 3500. 15N11920. 36W	MARICOPA	USGS/JHNSN	SEIS
MDA 3354. 78N11639. 97W	MT DAVIS	USGS/JHNSN	SEIS
MEC 3338. 12N11601. 71W	MECCA HILLS	USGS/JHNSN	SEIS
MTR 3324. 97N11604. 86W	MARTINEZ IND RES	USGS/JHNSN	SEIS
MLL 3405. 48N11656. 18W	MILL CREEK	USGS/JHNSN	SEIS
MRV 3403. 68N11632. 58W	MORONGO VALLE	USGS/JHNSN	SEIS
MWC 3413. 40N11803. 50W	MT WILSON	CIT/ JHNSN	SEIS
NW2 3305. 43N11541. 54W	NEW RIVER	USGS/JHNSN	SEIS
QBB 3310. 04N11538. 20W	OBSEIDIAN BT	USGS/JHNSN	SEIS
OLY 3325. 88N11707. 03W	MT OLYMPUS	USGS/JHNSN	SEIS
ORC 3333. 97N11546. 15W	ORICOPIA MTN	USGS/JHNSN	SEIS
PAS 3408. 95N11810. 29W	PASADENA	CIT/ JHNSN	SEIS
PCF 3403. 19N11747. 44W	POMONA	USGS/JHNSN	SEIS
PEM 3410. 04N11752. 18W	PINE MTN	USGS/JHNSN	SEIS
PKM 3453. 75N11949. 13W	PEAK MTN	USGS/JHNSN	SEIS
PLE 3458. 11N11904. 08W	PLEITO HILLS	USGS/JHNSN	SEIS
PLM 3321. 20N11651. 70W	PALOMAR MTN	CIT/ JHNSN	SEIS
PLT 3243. 87N11443. 76W	PILOT KNOS	USGS/JHNSN	SEIS
PMM 3358. 64N11548. 05W	PINTO MTNS	USGS/JHNSN	SEIS
POB 3341. 20N11655. 40W	POLLY BUTTE	USGS/JHNSN	SEIS
PSP 3347. 63N11632. 93W	PALM SPRINGS	USGS/JHNSN	SEIS
PTD 3400. 25N11848. 38W	PT DUME	USGS/JHNSN	SEIS
PYR 3404. 08N11844. 50W	PYRAMID LK	USGS/JHNSN	SEIS
QAL 3444. 98N11842. 88W	QUAIL LAKE	USGS/JHNSN	SEIS
RAY 3402. 18N11648. 67W	RAYWOOD FLAT	USGS/JHNSN	SEIS
RCH 3418. 44N11621. 03W	RECHE MTN	USGS/JHNSN	SEIS
RCM 3424. 00N11711. 10W	ROUND MTN	USGS/JHNSN	SEIS
RMR 3412. 77N11634. 52W	RIMROCK	USGS/JHNSN	SEIS
ROD 3437. 78N11636. 29W	RODMAN MTN	USGS/JHNSN	SEIS
RUN 3258. 33N11458. 63W	RUTHVEN	USGS/JHNSN	SEIS
RVM 3410. 81N11412. 02W	RIO VISTA MIN	USGS/JHNSN	SEIS
RVR 3359. 60N11722. 50W	RIVERSIDE	CIT/ JHNSN	SEIS
RVS 3402. 08N11431. 08W	RIVERSIDE MTN	USGS/JHNSN	SEIS
RYS 3438. 60N11921. 10W	REYES PK	USGS/JHNSN	SEIS
SAD 3404. 86N11839. 90W	SADDLE PK	USGS/JHNSN	SEIS
SBB 3441. 30N11749. 50W	SADDLEBACK BU	USGS/JHNSN	SEIS
SBC 3426. 50N11942. 80W	SANTA BARBARA	CIT/ JHNSN	SEIS
SBCC3456. 38N12010. 32W	COLSON CANYON	USGS/JHNSN	SEIS
SBCD3422. 12N11920. 63W	CASITAS DAM	USGS/JHNSN	SEIS
SBK 3504. 73N11734. 88W	SADDLEBACK MTN	CIT/ JHNSN	SEIS
SBLG3429. 79N11942. 81W	LE CUMBRE PK	USGS/JHNSN	SEIS
SBLG3406. 87N11903. 83W	LAGUNA PK	USGS/JHNSN	SEIS

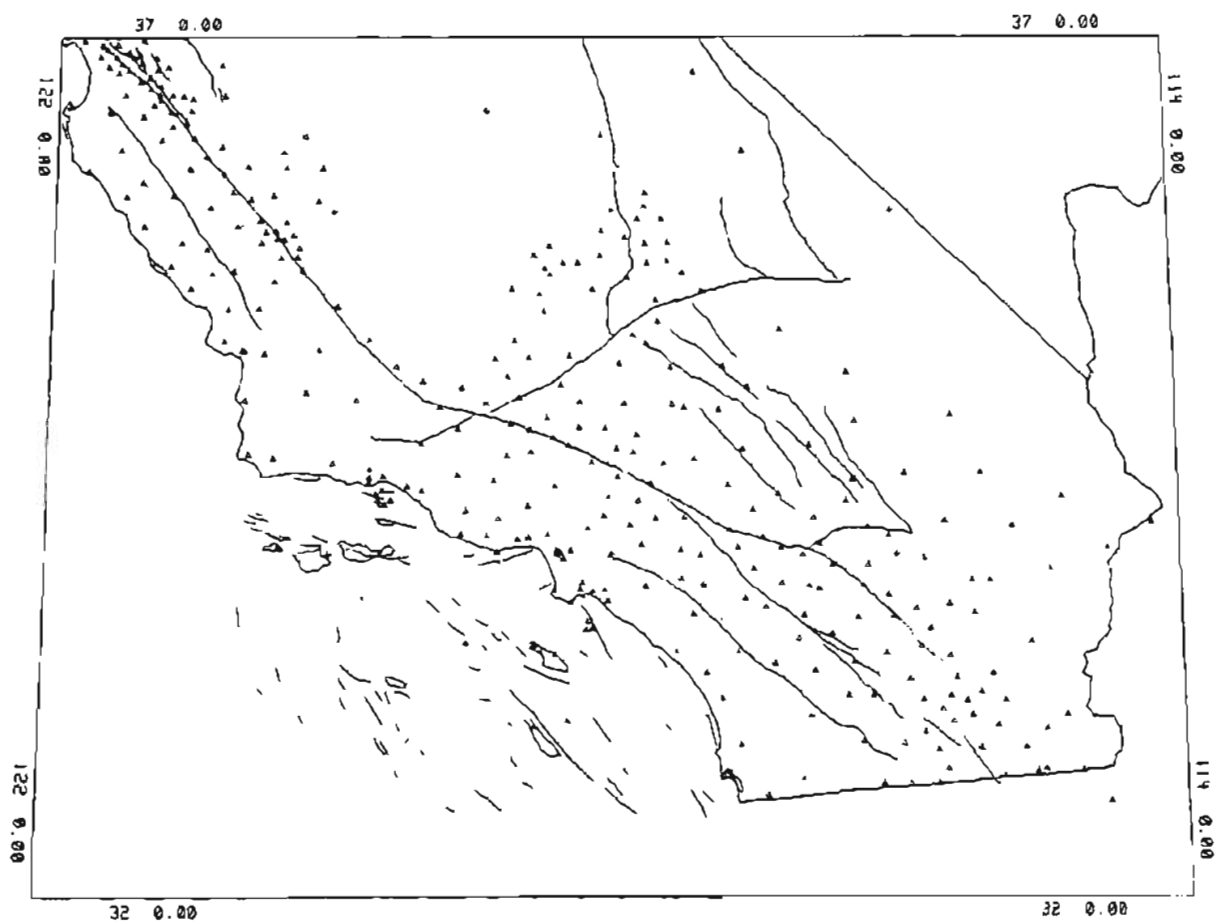
SBLP 3433. 37N12024. 02W	LOMPOC	USGS/JHNSN	SEIS
SBSO 3359. 68N11937. 99W	STA CRUZ	USGS/JHNSN	SEIS
SBSM 3402. 24N12021. 01W	SAN MIGUEL IS	USGS/JHNSN	SEIS
SBSN 3314. 68N11930. 38W	SAN NICOLAS	USGS/JHNSN	SEIS
SCI 3258. 80N11832. 80W	SAN CLEMENTE	USGS/JHNSN	SEIS
SCY 3406. 37N11827. 25W	STN CANYON RE	CIT/ JHNSN	SEIS
SOW 3436. 55N11704. 45W	SIDEWINDER MN	USGS/JHNSN	SEIS
SGI 3238. 95N11543. 52W	SIGNAL MTN	USGS/JHNSN	SEIS
SHH 3411. 26N11539. 27W	SHEEP HOLE MT	USGS/JHNSN	SEIS
SIL 3420. 87N11649. 60W	SILVER PK	USGS/JHNSN	SEIS
SIP 3412. 24N11847. 94W	SIMI PK	USGS/JHNSN	SEIS
SLT 3315. 89N11555. 39W	SALTON SEA TEST	USGS/JHNSN	SEIS
SME 3349. 36N11721. 32W	SANTA ROSA MN	USGS/JHNSN	SEIS
SMD 3332. 15N11627. 70W	SANTA ROSA MT	USGS/JHNSN	SEIS
SND 3508. 58N11818. 13W	SAND CANYON	USGS/JHNSN	SEIS
ENS 3225. 90N11732. 90W	SAN ONOFRE	CIT/ JHNSN	SEIS
SNR 3251. 71N11526. 21W	SCHAFFNER RNC	USGS/JHNSN	SEIS
SPH 3428. 32N11524. 16W	SHIP MTN	USGS/JHNSN	SEIS
SRT 3541. 51N11744. 96W	SNORT	USGS/JHNSN	SEIS
SSZ 3413. 02N11729. 34W	SAN SAVAIN	USGS/JHNSN	SEIS
STT 3447. 31N11827. 71W	SCOTT RANCH	USGS/JHNSN	SEIS
SUN 3412. 64N11741. 58W	SUNSET PEAK	USGS/JHNSN	SEIS
SUP 3257. 31N11549. 43W	SUPERST MTN	USGS/JHNSN	SEIS
SWM 3443. 00N11835. 00W	SAWMILL	CIT/ JHNSN	SEIS
SYP 3431. 63N11958. 67W	STA YNEX PK	CIT/ JHNSN	SEIS
SYS 3234. 78N11654. 69W	SAN YSIDRO	USGS/JHNSN	SEIS
TCC 3359. 47N11800. 77W	TURNBULL CANY	CIT/ JHNSN	SEIS
TEJ 3513. 79N11841. 37W	EL TEJON	USGS/JHNSN	SEIS
THC 3454. 32N11839. 81W	TEHACHAPI MICRO	USGS/JHNSN	SEIS
TIN 3703. 30N11813. 70W	TINEMAMA	CIT/ JHNSN	SEIS
TJR 3301. 69N11844. 55W	TEJON RANCH	USGS/JHNSN	SEIS
TMB 3505. 24N11932. 08W	TEMBLOR RNC S	USGS/JHNSN	SEIS
TOW 3548. 54N11745. 86W	TOWER ONE	USGS/JHNSN	SEIS
TPC 3406. 35N11602. 92W	TWENTYNINE PL	CIT/ JHNSN	SEIS
TPD 3452. 73N11813. 66W	TROPICO HILL	USGS/JHNSN	SEIS
TTM 3420. 12N11449. 65W	TURTLE MTN	USGS/JHNSN	SEIS
TWL 3416. 70N11835. 67W	TWIN LAKES	CIT/ JHNSN	SEIS
VQZ 3349. 91N11648. 55W	VISTA GRANDE	USGS/JHNSN	SEIS
VPD 3348. 90N11745. 70W	VILLA PARK DM	CIT/ JHNSN	SEIS
VST 3309. 40N11713. 90W	VISTA	CIT/ JHNSN	SEIS
WBM 3536. 48N11753. 40W	BOWMAN ROAD	USGS/JHNSN	SEIS
WIS 3316. 56N11535. 58W	WISTER	USGS/JHNSN	SEIS
WLK 3303. 08N11529. 44W	WIST LAKE	USGS/JHNSN	SEIS
WML 3300. 91N11537. 35W	WESTMORELAND	USGS/JHNSN	SEIS
WWR 3359. 51N11639. 36W	WHITewater	USGS/JHNSN	SEIS
WSH 3537. 96N11729. 50W	SPANGLER HILLS	USGS/JHNSN	SEIS
WSP 3435. 77N11834. 72W	WARM SPRINGS	USGS/JHNSN	SEIS
XMS 3531. 40N11721. 28W	CHRISTMAS CANYON	USGS/JHNSN	SEIS
YAD 3310. 08N11621. 00W	YAGUI MEADOWS	USGS/JHNSN	SEIS
YEG 3526. 18N11957. 56W	YEGUAS MTN	USGS/JHNSN	SEIS
YMD 3233. 28N11432. 68W	YUMA DESERT	USGS/JHNSN	SEIS
YUH 3238. 86N11555. 38W	YUMA DESERT	USGS/JHNSN	SEIS
SPA 3336. 17N11810. 49W	CON SAN PEDRO A	USC/TENG	SEIS
SPB 3332. 19N11811. 19W	CON SAN PEDRO B	USC/TENG	SEIS
SPC 3333. 78N11808. 37W	CON SAN PEDRO C	USC/TENG	SEIS
HUB 3343. 10N11802. 01W	CON HUNTINGTON BCH	USC/TENG	SEIS
DHR 3400. 51N11821. 71W	CON BALDWIN HILLS	USC/TENG	SEIS
DTI 3347. 77N11813. 25W	CON DOWNHOLE TERM	USC/TENG	SEIS
FMA 3342. 75N11817. 41W	CON FORT MACARTHU	USC/TENG	SEIS
LNA 3347. 35N11803. 27W	CON LOS ALAMITOS	USC/TENG	SEIS
RCP 3346. 66N11808. 00W	CON RECREATION PK	USC/TENG	SEIS
LCL 3350. 00N11812. 41W	CON LOS CERRITOS	USC/TENG	SEIS
LCH 3401. 07N11817. 22W	CON LOS ANO CNT M	USC/TENG	SEIS
HCH 3359. 64N11822. 98W	CON HOLY CROSS MA	USC/TENG	SEIS

IPC 3358. 24N11820. 07W	CON INGLEWOOD PK	USC/TENG	SEIS
DHB 3401. 05N11823. 13W	CON DOWNHOLE BALD	USC/TENG	SEIS
TPR 3405. 03N11835. 20W	CON TRIPPETT RANC	USC/TENG	SEIS
GFP 3301. 07N11818. 59W	CON GRIFFITH PARK	USC/TENG	SEIS
PXL 3426. 84N11936. 98W	CON PARK LANE	USC/TENG	SEIS
VTR 3424. 25N11942. 71W	CON VIC TRACE	USC/TENG	SEIS
BPH 3423. 53N11926. 97W	CON BARROWS RANCH	USC/TENG	SEIS
DCA 3418. 74N11933. 67W	CON DOS CUADRAS A	USC/TENG	SEIS
DCB 3417. 26N11936. 26W	CON DOS CUADRAS B	USC/TENG	SEIS
DCC 3418. 59N11939. 31W	CON DOS CUADRAS C	USC/TENG	SEIS
DCE 3422. 07N11937. 31W	CON DOS CUADRAS E	USC/TENG	SEIS
DCF 3420. 80N11939. 97W	CON DOS CUADRAS F	USC/TENG	SEIS
DCG 3417. 19N11937. 76W	CON DOS CUADRAS G	USC/TENG	SEIS
PVE 3347. 20N11824. 15W	CON PAS VERDES ES	USC/TENG	SEIS
SBI 3328. 84N11901. 72W	CON STA BARB ISL	USC/TENG	SEIS
CJW 3327. 92N11833. 10W	CON CATAL IS W	USC/TENG	SEIS

SEISMOMETERS



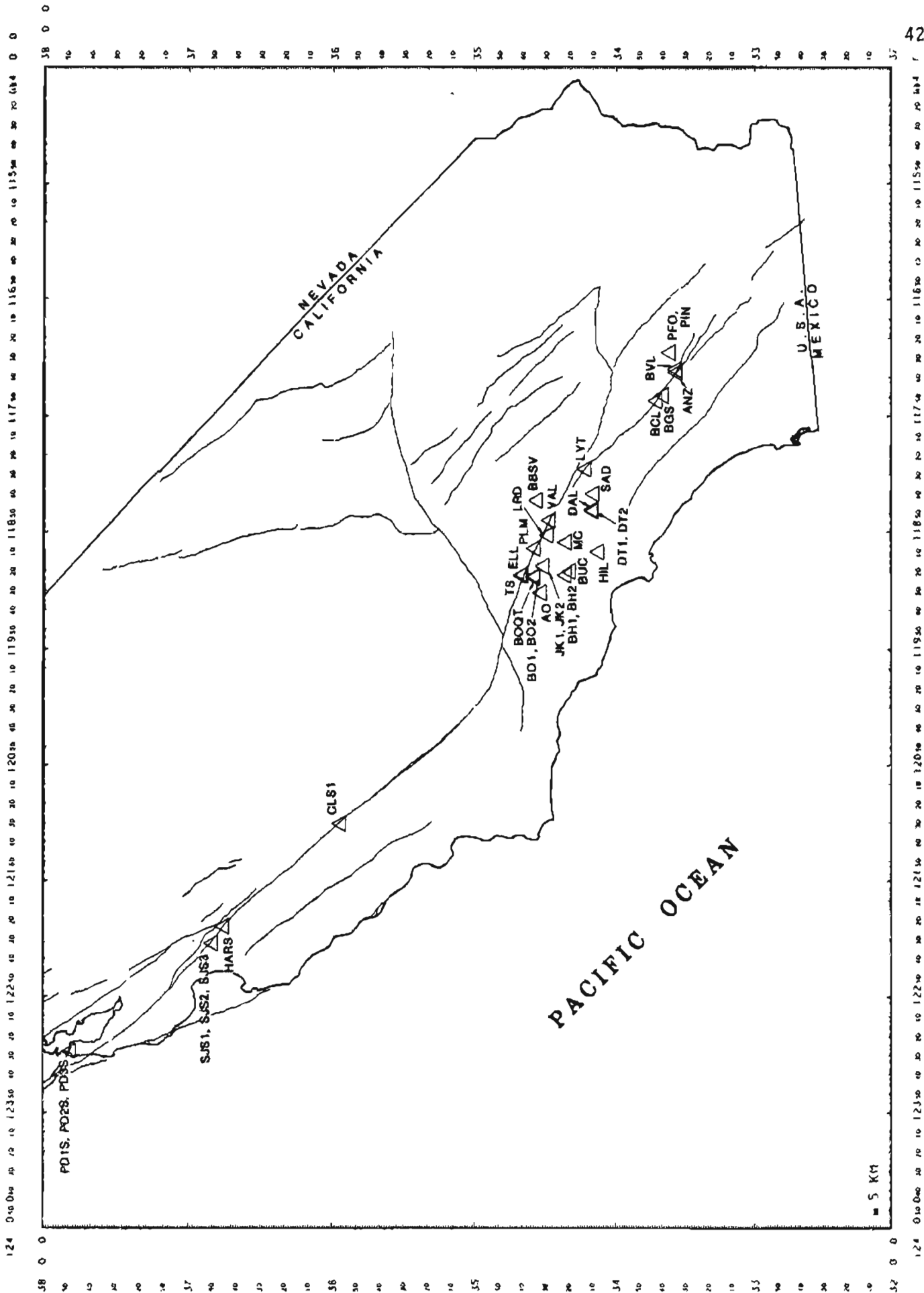
SEISMOMETERS



STRAINMETERS -CALIFORNIA

The USGS strainmeters are 10 meter, three-component instruments sampled at 10 minute intervals. The UCSD Pinon Flat strainmeter is a three-component, 800 meter, laser interferometer device. Clark's strainmeters are vibrating wire transducers installed in shallow boreholes and sampled fortnightly. The carbon-fiber strainmeters (Billham and Teng) are long-baseline (ca. 100 meter) continuously recording instruments installed in tunnels.

AERV.	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT
DT1	34 09.75	117 49.15		CON DALTON TUN 1	USC/LEARY	STRAIN
DT2	34 09.75	117 49.15		CON DALTON TUN 2	USC/LEARY	STRAIN
BO1	34 34.70	118 22.80		CON BOUQUET 1	USC/LEARY	STRAIN
BO2	34 34.70	118 22.80		CON BOUQUET 2	USC/LEARY	STRAIN
AO	34 32.00	118 31.20		CON LOS ANG AQUEDUCT	USC/LEARY	STRAIN
JK1	34 30.90	118 17.60		CON JACKSON MINE 1	USC/LEARY	STRAIN
JK2	34 30.90	118 17.60		CON JACKSON MINE 2	USC/LEARY	STRAIN
TS	34 40.50	118 22.50		CON THREE SISTERS MN	USC/LEARY	STRAIN
MC	34 21.20	118 05.30		CON MONTE CRISTO MN	USC/LEARY	STRAIN
BH1	34 21.50	118 22.20		CON BIG HORN MINE 1	USC/LEARY	STRAIN
BH2	34 21.50	118 22.20		CON BIG HORN MINE 2	USC/LEARY	STRAIN
BOQT	34 34.92	118 23.34		90 BOUQUET RES	LA-DO/CLM	STRAIN
PIN	33 36.54	116 27.54		CON PINON FLAT OB	UCSD/WYATT	OCS
ELL	34 29.84	118 21.93		7 ELIZABETH LAK	LA/CLARK	STRESS
PLM	34 34.60	118 08.46		7 PALMD WATERWD	LA/CLARK	STRESS
LRD	34 29.01	118 01.52		7 LITTLE ROCK	LA/CLARK	STRESS
VAL	34 28.28	117 53.09		7 VALVERMO	LA/CLARK	STRESS
LYT	34 12.89	117 27.42		7 LYTLE CREEK	LA/CLARK	STRESS
SAD	34 09.52	117 40.21		7 SAN ANTONIO	LA/CLARK	STRESS
DAL	34 10.14	117 48.57		7 BIG DALTON	LA/CLARK	STRESS
BUC	34 19.69	118 20.42		7 BUCK CANYON	LA/CLARK	STRESS
HIL	34 07.53	118 10.34		7 HILLSIDES HM	LA/CLARK	STRESS
BCL	33 42.41	116 52.06		7 BAUTISTA LEVEE	LA/CLARK	STRESS
BGS	33 39.60	116 49.32		7 BAUTISTA GRO ST	LA/CLARK	STRESS
BVL	33 34.06	116 36.20		7 BURNT VALLEY	LA/CLARK	STRESS
ANZ	33 33.79	116 37.63		7 ANZA	LA/CLARK	STRESS
PFO	33 36.54	116 27.52		7 PINYON FLAT	LA/CLARK	STRESS
BBSV	34 33.67	117 43.45		CON BLACK BUTTE	USGS/JOHNST	STRAIN
CLS1	35 56.46	120 30.65		CON CLAASSEN RANCH	USGS/JOHNST	STRAIN
HARS	36 45.18	121 23.02		CON HARRIS	USGS/JOHNST	STRAIN
PD1S	37 47.92	122 28.25		CON PRESIDIO	USGS/JOHNST	STRAIN
PD2S	37 47.92	122 28.25		CON PRESIDIO	USGS/JOHNST	STRAIN
PD3S	37 47.92	122 28.25		CON PRESIDIO	USGS/JOHNST	STRAIN
SJS1	36 49.75	121 32.67		CON SAN JUAN	USGS/JOHNST	STRAIN
SJS2	36 49.75	121 32.67		CON SAN JUAN	USGS/JOHNST	STRAIN
SJS3	36 49.75	121 32.67		CON SAN JUAN	USGS/JOHNST	STRAIN

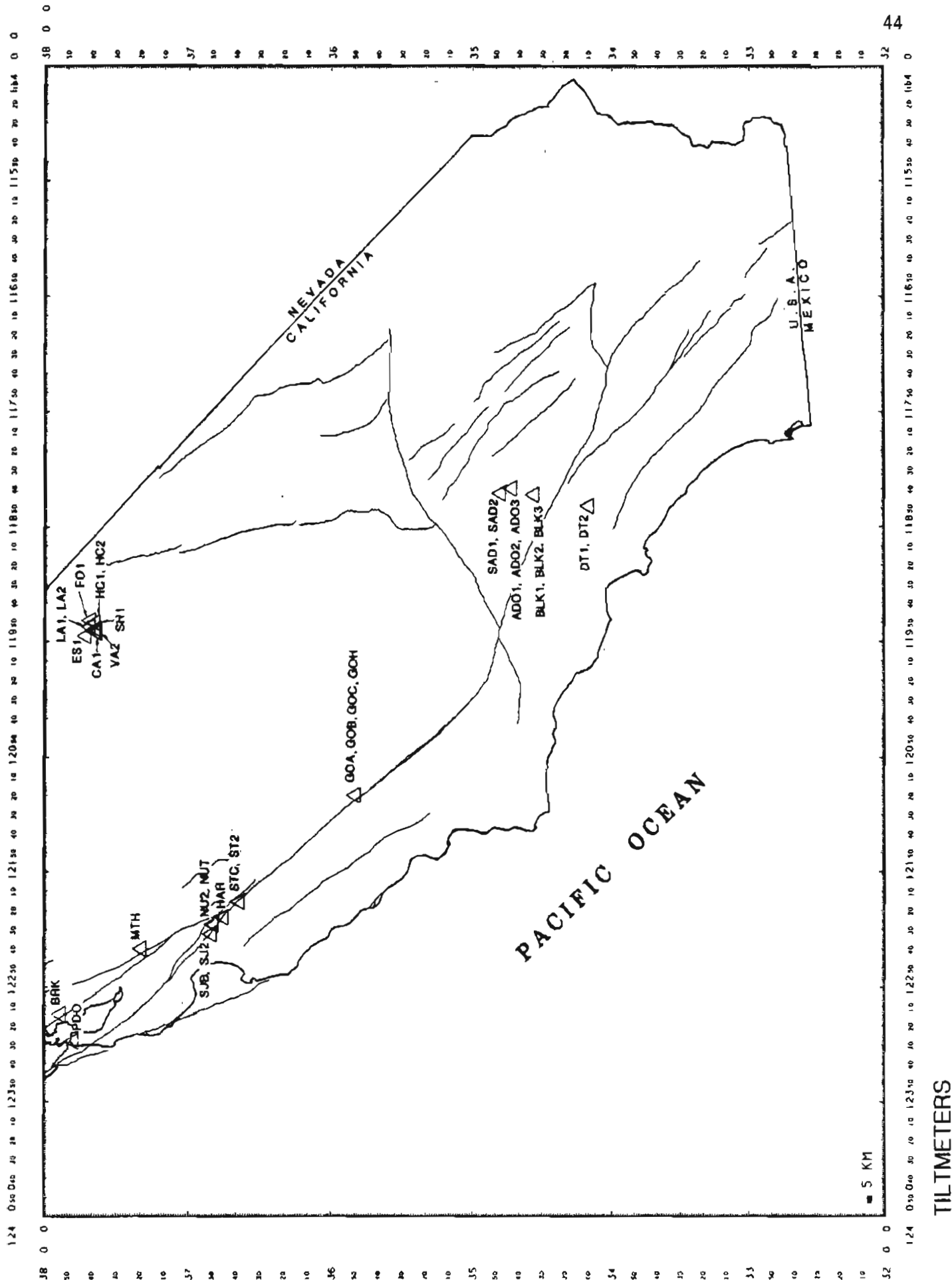


STRAINMETERS

TILTMETERS -CALIFORNIA

The tiltmeters are bubble level-type instruments made by Rockwell or Kinemetrics, installed in shallow boreholes and sampled at 10- or 15-minute intervals.

AERV	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT
BRK	37 52.62	122 14.18		CON BERKELEY	USGS/MORTEN	TILT
GOA	35 49.62	128 19.98		CON GOLD HILL	USGS/MORTEN	TILT
GOB	35 49.62	128 19.98		CON GOLD HILL	USGS/MORTEN	TILT
GOC	35 49.62	128 19.98		CON GOLD HILL	USGS/MORTEN	TILT
GOH	35 49.62	128 19.98		CON GOLD HILL	USGS/MORTEN	TILT
HAR	36 46.18	121 23.76		CON SAGO	USGS/MORTEN	TILT
MTH	37 19.26	121 48.82		CON MT HAMILTON	USGS/MORTEN	TILT
NU2	36 49.44	121 27.36		CON NUTTING	USGS/MORTEN	TILT
NUT	36 49.32	121 27.18		CON NUTTING	USGS/MORTEN	TILT
PDO	37 47.48	122 28.18		CON PRESIDIO	USGS/MORTEN	TILT
SJB	36 58.18	121 32.46		CON SAN JUAN BAUT	USGS/MORTEN	TILT
SJ2	36 58.18	121 32.46		CON SAN JUAN BAUT	USGS/MORTEN	TILT
STC	36 38.48	121 15.68		CON STONE CANYON	USGS/MORTEN	TILT
ST2	36 38.48	121 15.68		CON STONE CAN 2	USGS/MORTEN	TILT
CA1	37 38.65	118 54.98		CON CASA DIABLO	USGS/MORTEN	TILT
CA2	37 38.65	118 54.98		CON CASA DIABLO	USGS/MORTEN	TILT
VA1	37 37.88	118 55.35		CON VALENTINE	USGS/MORTEN	TILT
VA2	37 37.88	118 55.35		CON VALENTINE	USGS/MORTEN	TILT
SH1	37 38.17	118 53.55		CON SHERWIN CRK	USGS/MORTEN	TILT
HC1	37 38.66	118 58.25		CON HOT CREEK	USGS/MORTEN	TILT
HC2	37 38.66	118 58.25		CON HOT CREEK	USGS/MORTEN	TILT
FO1	37 48.64	118 49.28		CON FOSSIL	USGS/MORTEN	TILT
FO2	37 48.64	118 49.28		CON FOSSIL	USGS/MORTEN	TILT
LA1	37 48.63	118 52.58		CON LITTLE ANTELOPE	USGS/MORTEN	TILT
LA2	37 48.63	118 52.58		CON LITTLE ANTELOPE	USGS/MORTEN	TILT
ES1	37 42.46	118 57.15		CON ESCAPE	USGS/MORTEN	TILT
ES2	37 42.46	118 57.15		CON ESCAPE	USGS/MORTEN	TILT
DT1	34 39.76	117 43.15		CON DALTON TUN 1	USC/LEARY	TILT
DT2	34 39.75	117 43.15		CON DALTON TUN 2	USC/LEARY	TILT
BLK1	34 33.67	117 43.45		BLACK BUTTE	STLS/MORRIS	TILT
BLK2	34 33.67	117 43.45		BLACK BUTTE	STLS/MORRIS	TILT
BLK3	34 33.67	117 43.45		BLACK BUTTE	STLS/MORRIS	TILT
ADO1	34 43.25	117 39.93		ADOBE MTN	STLS/MORRIS	TILT
ADO2	34 43.25	117 39.93		ADOBE MTN	STLS/MORRIS	TILT
ADO3	34 43.25	117 39.93		ADOBE MTN	STLS/MORRIS	TILT
SAD1	34 48.88	117 42.58		SADDLEBACK BUTTE	STLS/MORRIS	TILT
SAD2	34 48.88	117 42.58		SADDLEBACK BUTTE	STLS/MORRIS	TILT



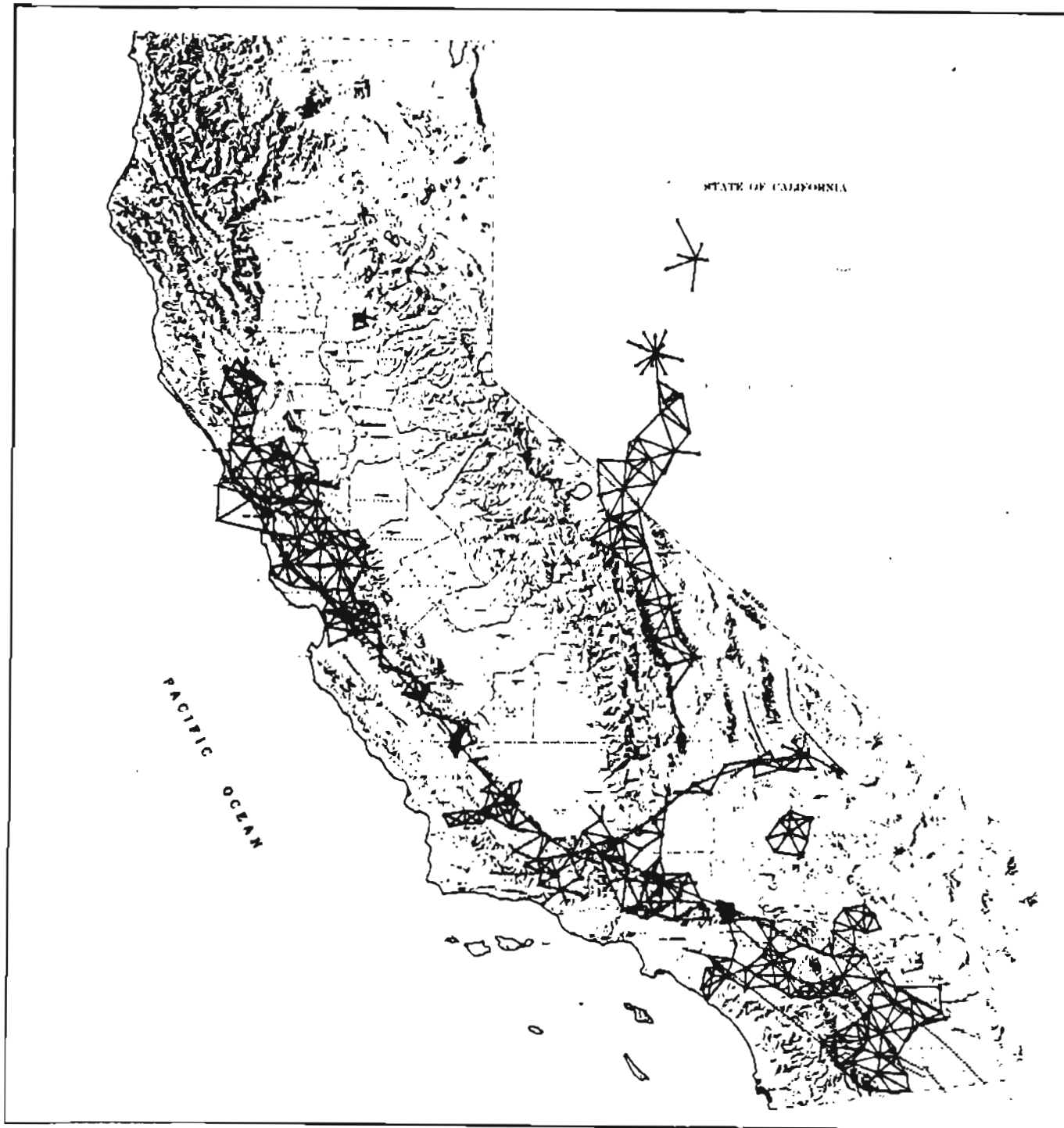
TILTMETERS

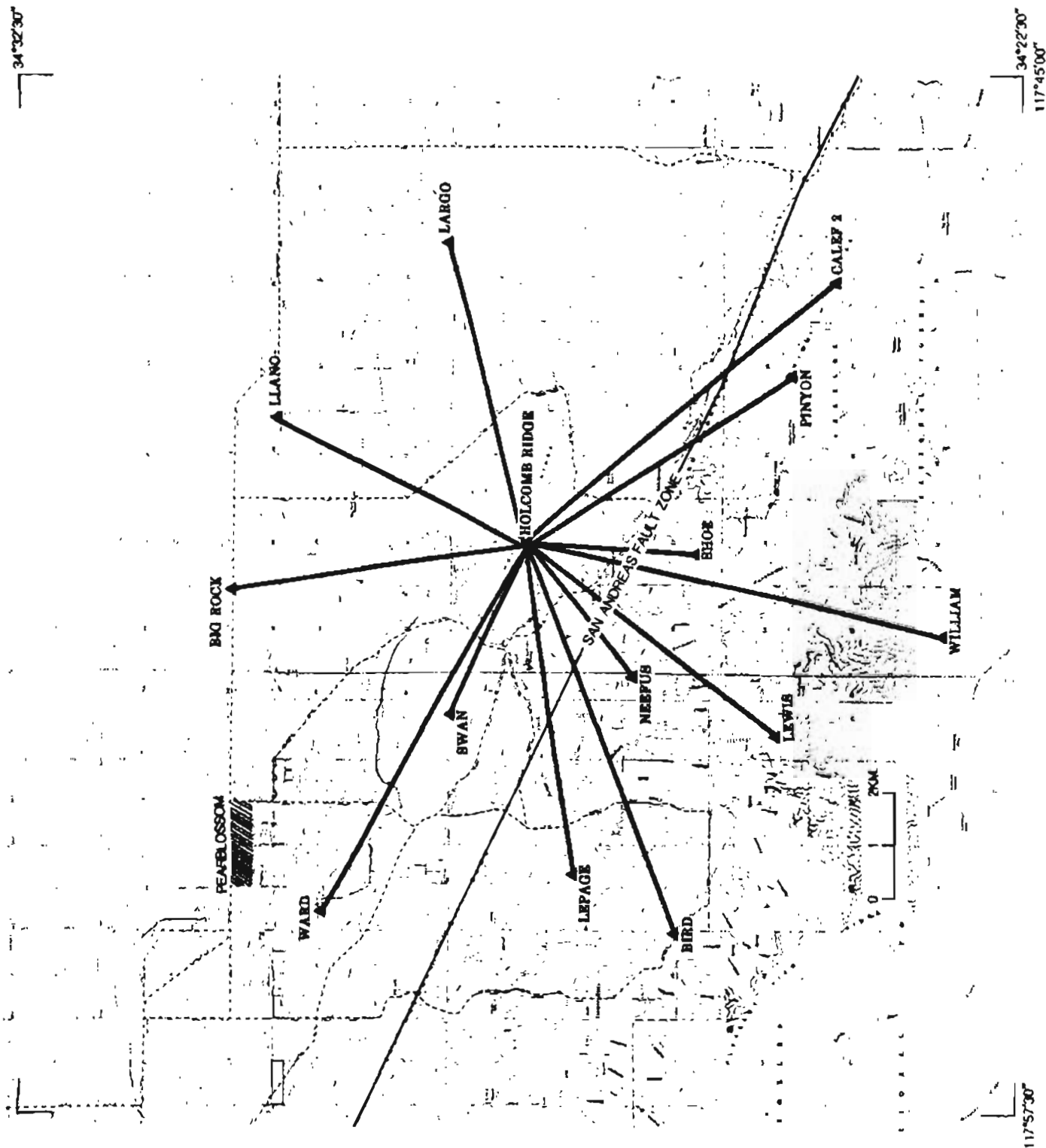
TRILATERATION NETWORKS -CALIFORNIA

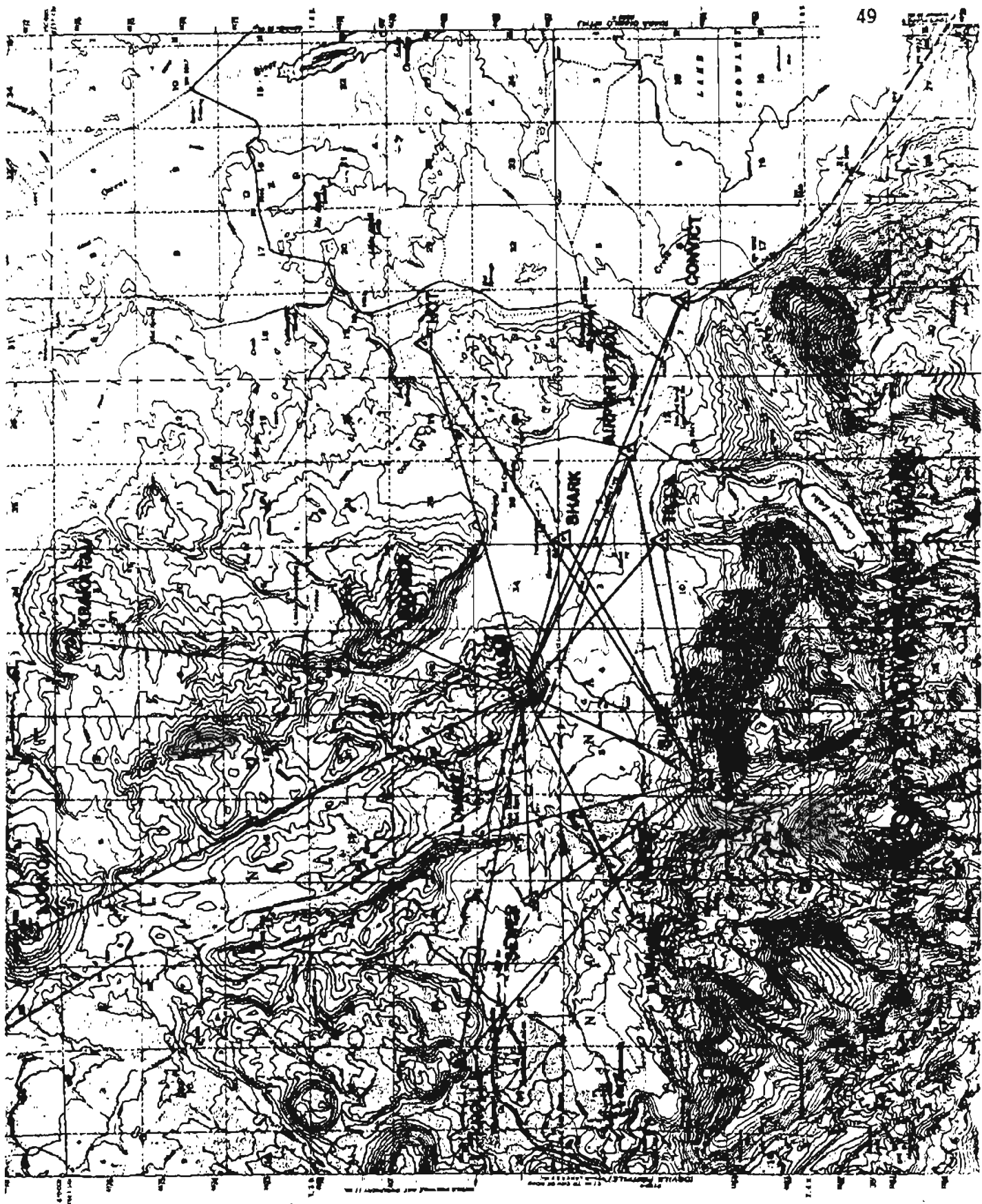
The longitude and latitudes for the USGS trilateration stations are average network coordinates. The number of stations in each network are designated for the USGS-operated stations. The trilateration lines are 18-35 km in length and are measured annually using a laser ranging device (Geodolite). Smaller, fault-crossing arrays of lines from one to a few kilometers in length are measured annually or more frequently. Several arrays include 18-12 lines a few kilometers in length. They are located in the following areas: San Juan Bautista, Palmdale, Mammoth Lakes and Parkfield (Langbein).

ABRV	# STA.	AVG. LAT.	AVG. LONG.	NETWORK	INST/PI	INSTRUMENT
ANZA	54	33 44.85	116 59.35	ANZA	USGS/PRES	TRILAT
ARENA	15	38 58.57	123 48.29	PT ARENA	USGS/PRES	TRILAT
BAPST	12	34 59.45	116 52.27	BARSTOW	USGS/PRES	TRILAT
BAY	85	37 39.75	122 86.65	BAY	USGS/PRES	TRILAT
BENIT	28	36 34.45	128 45.74	BENITO	USGS/PRES	TRILAT
BMT	15	37 19.35	122 11.25	BLACK MTN	USGS/PRES	TRILAT
CAJON	22	34 13.13	117 28.22	CAJON	USGS/PRES	TRILAT
CALAV	8	37 26.99	121 47.14	CALAVERAS	USGS/PRES	TRILAT
CARRI	21	35 12.44	119 57.68	CARRIZO	USGS/PRES	TRILAT
CHASE	8	36 58.44	121 37.77	CHASE	USGS/PRES	TRILAT
CHOLA	7	35 44.11	128 17.17	CHOLAME	USGS/PRES	TRILAT
COAL	28	36 25.41	121 88.93	COALINGA	USGS/PRES	TRILAT
COSO	27	36 88.88	117 58.35	COSO	USGS/PRES	TRILAT
EXCEL	39	37 54.52	118 31.36	EXCELSIOR	USGS/PRES	TRILAT
FALLO	29	39 15.51	118 81.88	FALLON	USGS/PRES	TRILAT
GARLO	21	35 31.69	117 18.35	GARLOCK	USGS/PRES	TRILAT
GAVIL	18	36 45.22	121 27.98	GAVILAN	USGS/PRES	TRILAT
GEYSE	37	38 58.27	122 47.82	GEYSERS	USGS/PRES	TRILAT
HEBGE	11	44 45.76	111 18.45	HEBGEN	USGS/PRES	TRILAT
HOLLI	35	36 51.83	121 26.47	HOLLISTER	USGS/PRES	TRILAT
JOSHU	26	34 88.81	116 18.84	JOSHUA	USGS/PRES	TRILAT
LANDE	6	34 19.33	116 25.18	LANDERS	USGS/PRES	TRILAT
LOMA	12	37 89.64	121 49.98	LOMA PRIETO	USGS/PRES	TRILAT
LONG	2	38 83.37	118 12.38	LONG	USGS/PRES	TRILAT
LOSPA	27	34 45.23	119 16.16	LOS PADRES	USGS/PRES	TRILAT
LAKES	7	37 35.19	122 26.82	LK SAN ANDR	USGS/PRES	TRILAT
MENDO	26	48 22.43	123 58.34	MENDOCINO	USGS/PRES	TRILAT
MEXIC	24	32 27.26	115 38.43	MEXICALI	USGS/PRES	TRILAT
MOCHO	13	37 28.27	121 31.97	MOCHO	USGS/PRES	TRILAT
MOJAV	28	34 33.37	116 32.31	MOJAVE	USGS/PRES	TRILAT
MONIT	38	34 48.87	118 24.29	MONITOR	USGS/PRES	TRILAT
NAPA	9	38 19.24	122 16.52	NAPA	USGS/PRES	TRILAT
NTS	18	37 16.56	116 32.63	NV TST SITE	USGS/PRES	TRILAT
OGDEN	13	41 11.84	111 55.11	OGDEN	USGS/PRES	TRILAT
OROV	9	39 31.42	121 37.66	OROVILLE	USGS/PRES	TRILAT
OWENS	15	36 55.17	118 11.35	OWENS VLY	USGS/PRES	TRILAT
PAJAR	15	36 52.22	121 48.37	PAJARO	USGS/PRES	TRILAT
PALMD	18	34 35.85	118 15.78	PALMDALE	USGS/PRES	TRILAT
PEARB	11	34 26.89	117 52.37	PEARLBLOSSOM	USGS/PRES	TRILAT
PTREY	18	38 87.47	122 48.98	PT REYES	USGS/PRES	TRILAT
RF	9	37 19.87	122 13.43	RADIO FACIL	USGS/PRES	TRILAT
SALTO	48	33 12.82	115 57.96	SALTON	USGS/PRES	TRILAT
SANFE	15	34 18.12	118 25.42	SAN FERNANDO	USGS/PRES	TRILAT
SANGA	29	34 27.61	118 17.88	SAN GABRIEL	USGS/PRES	TRILAT
SANLU	63	35 37.85	128 17.44	SAN LUIS	USGS/PRES	TRILAT
SHOSH	15	36 52.88	116 22.35	SHOSHONE	USGS/PRES	TRILAT
SROSA	18	38 24.12	122 43.28	SANTA ROSA	USGS/PRES	TRILAT
TEHAC	38	34 49.96	118 27.99	TEHACHAPI	USGS/PRES	TRILAT
YUCCA	8	37 84.26	116 83.25	YUCCA	USGS/PRES	TRILAT

ABRV.	LAT.	LONG.	NAME	INST/PI	INSTRUMENT
MCGE 37	33.65	118 47.88	MT MORRIOSH	UCSB/SYLVES	TRILAT
3SPG 36	42.67	117 87.33	TRIANGLE SPG	UCSB/SYLVES	TRILAT
SNRT 35	44.87	117 45.88	SNORT	UCSB/SYLVES	TRILAT
ARPT 35	42.68	117 43.27	AIRPORT	UCSB/SYLVES	TRILAT
SUMT 35	27.23	117 38.87	SUMMIT RANGE	UCSB/SYLVES	TRILAT
ELIZ 34	43.63	118 89.85	ELIZABETH LK	UCSB/SYLVES	TRILAT
BARL 34	31.35	118 85.88	BARRELL SPG	UCSB/SYLVES	TRILAT
CEMT 34	33.32	118 85.83	CEMETERY	UCSB/SYLVES	TRILAT
48ST 34	31.58	118 83.35	48TH ST E	UCSB/SYLVES	TRILAT
ROCK 34	32.75	118 85.88	LITTLE ROCK	UCSB/SYLVES	TRILAT
PALT 34	27.58	117 53.62	PALLET CRK	UCSB/SYLVES	TRILAT
ALIS 34	32.62	128 85.63	ALISAL RANCH	UCSB/SYLVES	TRILAT
JUNC 34	28.83	119 38.25	JUNCAL DAM	UCSB/SYLVES	TRILAT
ALDR 34	28.68	119 29.27	WHITE LEDGE	UCSB/SYLVES	TRILAT
WHLR 34	31.12	119 16.68	WHEELER GORG	UCSB/SYLVES	TRILAT
PORT 34	88.43	119 45.32	PORTEZUELO	UCSB/SYLVES	TRILAT
ANZA 33	35.87	116 39.65	ANZA	UCSB/SYLVES	TRILAT



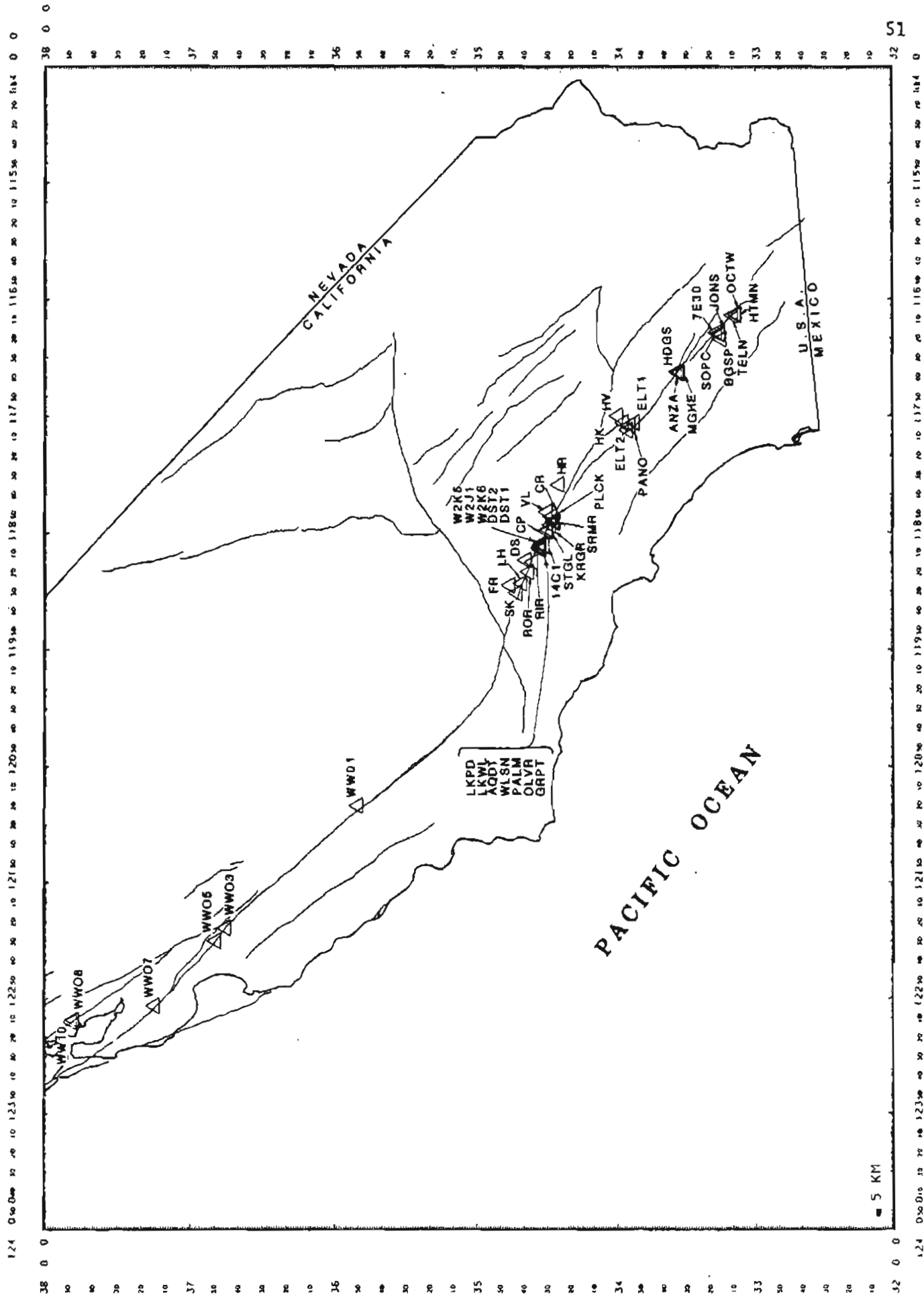




WELL MONITORING -CALIFORNIA

Water levels are monitored in wells by continuous, float-type recorders, or by periodic site visits. Most wells are now also visited fortnightly or monthly for measurements of water temperature, salinity, and electrical conductivity. The MISC stations in this listing represent wells in which continuous measurements of water level, temperature, turbidity and radon and acoustic and RF emissions are either planned or in operation.

ABRV.	LAT.	LONG.	INTERVAL	NAME	INST/PI	INSTRUMENT	
LKPD	34	33.28	118	07	LAKE PALMDALE	LAM/MERI	WW
LKWL	34	33.17	118	07	LAKE WELL	LAM/MERI	WW
DST1	34	32.54	118	28	DESTEIGUER 1	LAM/MERI	WW
DST2	34	32.53	118	28	DESTEIGUER 2	LAM/MERI	WW
W2K6	34	32.65	118	28		LAM/MERI	WW
W2J1	34	32.67	118	28		LAM/MERI	WW
W2K5	34	32.67	118	07		LAM/MERI	WW
OLVR	34	32.72	118	07	OLIVER	LAM/MERI	WW
14C1	34	31.25	118	28		LAM/MERI	WW
GRPT	34	32.51	118	01	GRAVEL PIT	LAM/MERI	WW
PALM	34	32.79	118	01	PALMDALE	LAM/MERI	WW
WLSN	34	32.80	118	01	WILSON	LAM/MERI	WW
AQDT	34	33.02	118	01	AQUEDUCT	LAM/MERI	WW
STGL	34	29.55	117	14	SCATTAGLIA	LAM/MERI	WW
KRGR	34	29.52	117	28	KRUEGER	LAM/MERI	WW
PLCK	34	27.28	117	01	PALLET CRK	LAM/MERI	WW
SRMR	34	26.56	117	14	SORMERMEIER	LAM/MERI	WW
PANO	33	55.69	117	28	PAINO	LAM/MERI	WW
ELT1	33	52.69	117	28	ELLIOT 1	LAM/MERI	WW
ELT2	33	54.73	117	28	ELLIOT 2	LAM/MERI	WW
HOGS	33	34.11	116	28	HODGES	LAM/MERI	WW
ANZA	33	33.27	116	01	BROCHETTO	LAM/MERI	WW
MGHE	33	32.62	116	28	MCGHEE	LAM/MERI	WW
JONS	33	15.48	116	07	JONES	LAM/MERI	WW
SOPC	33	15.43	116	28	SO PACIFIC	LAM/MERI	WW
BGSP	33	14.72	116	01	BORREGO SPRGS	LAM/MERI	WW
TELN	33	09.76	116	28	TREELEVEN	LAM/MERI	WW
OCTW	33	08.63	116	01	OCOTILLO WELLS	LAM/MERI	WW
HTMN	33	08.13	116	07	HETTERMAN	LAM/MERI	WW
7E30	33	16.77	116	28		LAM/MERI	WW
WW01	35	50.10	120	CON	PARKFIELD	USGS/KING	WW
WW03	35	45.10	121	CON	CIENEGA WINER	USGS/KING	WW
WW05	36	49.20	121	CON	ST FRAN RETR	USGS/KING	WW
WW07	37	14.40	122	CON	VLY CHRIS SKL	USGS/KING	WW
WW09	37	47.40	122	CON	CHABOT COLG	USGS/KING	WW
WW10	37	48.18	122	CON	OAKLAND	USGS/KING	WW
HV	34	44.25	117		HIGH VISTA	USGS/URBAN	DEEPP
ROR	34	38.00	118	CON	ROBERTS RANCH	USC/HENVEY	MISC
CP	34	30.00	117	CON	CHIEF PADUKE	USC/HENVEY	MISC
FR	34	46.00	118	CON	FIARMONT RANC	USC/HENVEY	MISC
CR	34	27.90	117	CON	CRYSTAL AIRE	USC/HENVEY	MISC
RIR	34	36.00	118	CON	RITTER RANCH	USC/HENVEY	MISC
HR	34	26.00	117	CON	HANDLEY	USC/HENVEY	MISC
HK	33	57.55	117	CON	HASKELL RANCH	USC/HENVEY	MISC
SK	34	43.00	118	CON	SKELTON RANCH	USC/HENVEY	MISC
DS	34	39.00	118	CON	DEL SUR	USC/HENVEY	MISC
LH	34	41.00	118	CON	LAKE HUGHES	USC/HENVEY	MISC
VL	34	30.00	117	CON	VIRGINIA LEE	USC/HENVEY	MISC



WELL MONITORING

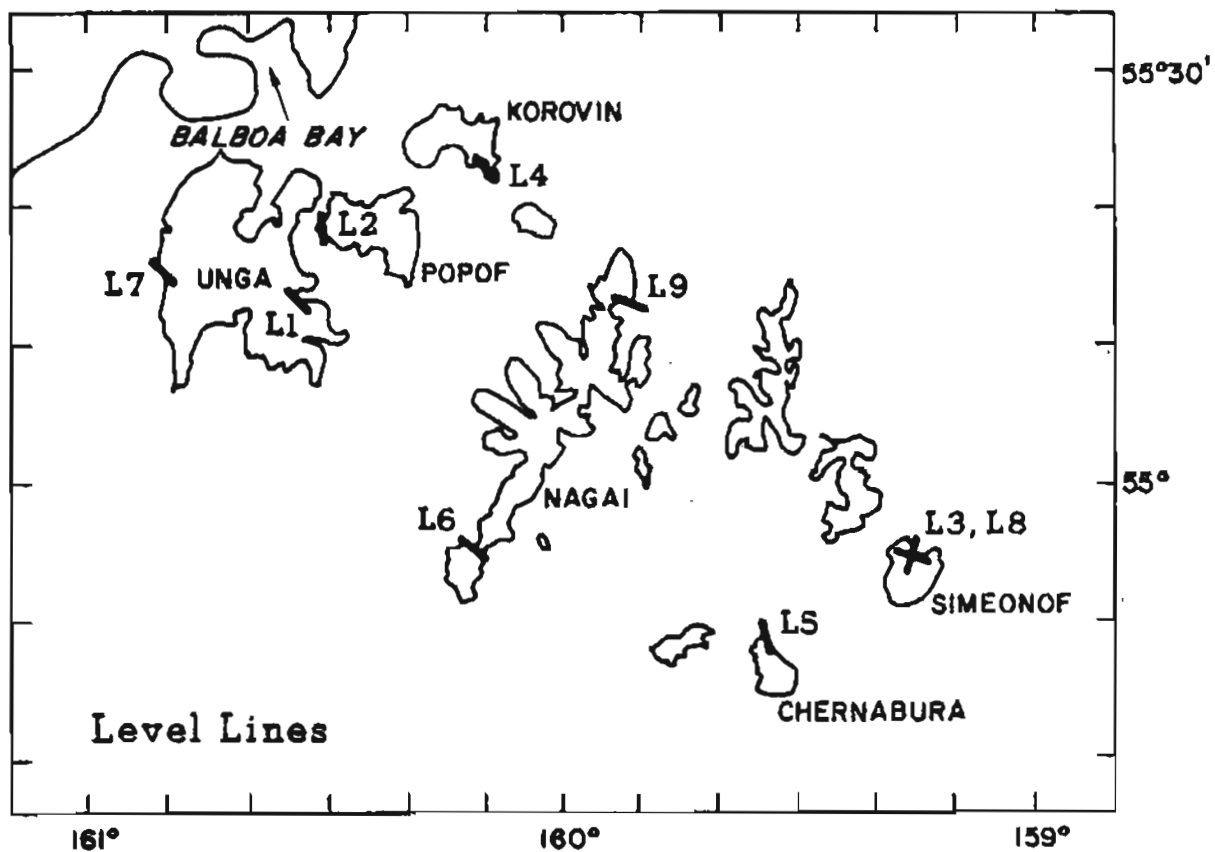
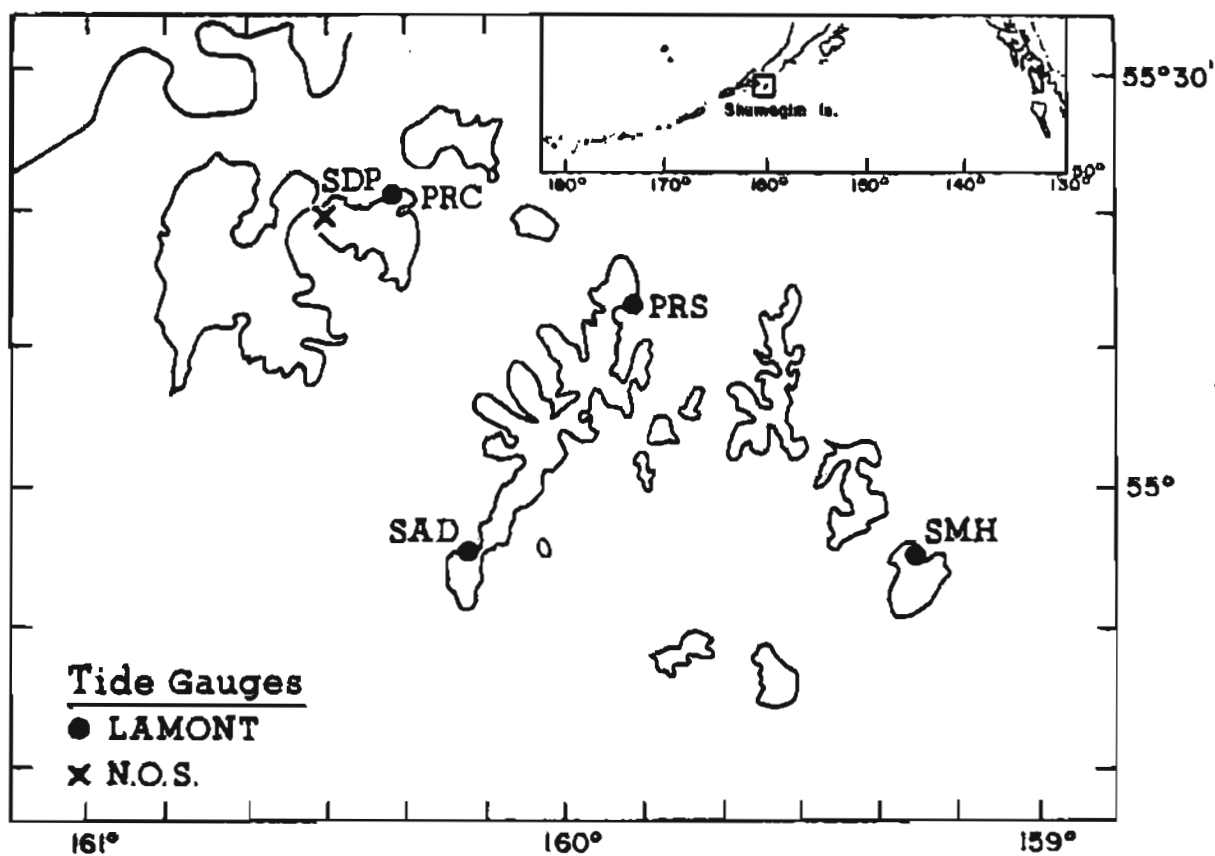
LEVEL LINES -ALASKA

The directions of the level lines are indicated by dark lines on the map.
Their lengths vary from 600 m to 1200 m (Bilham/Beavan).

L1	55	13.00	160	33.50
L2	55	18.50	160	31.00
L3	54	54.50	159	14.50
L4	55	22.50	160	03.60
L5	54	46.50	159	33.50
L6	54	55.50	160	12.20
L7	55	15.50	160	51.00
L8	55	54.50	159	14.50
L9	55	12.50	159	51.00

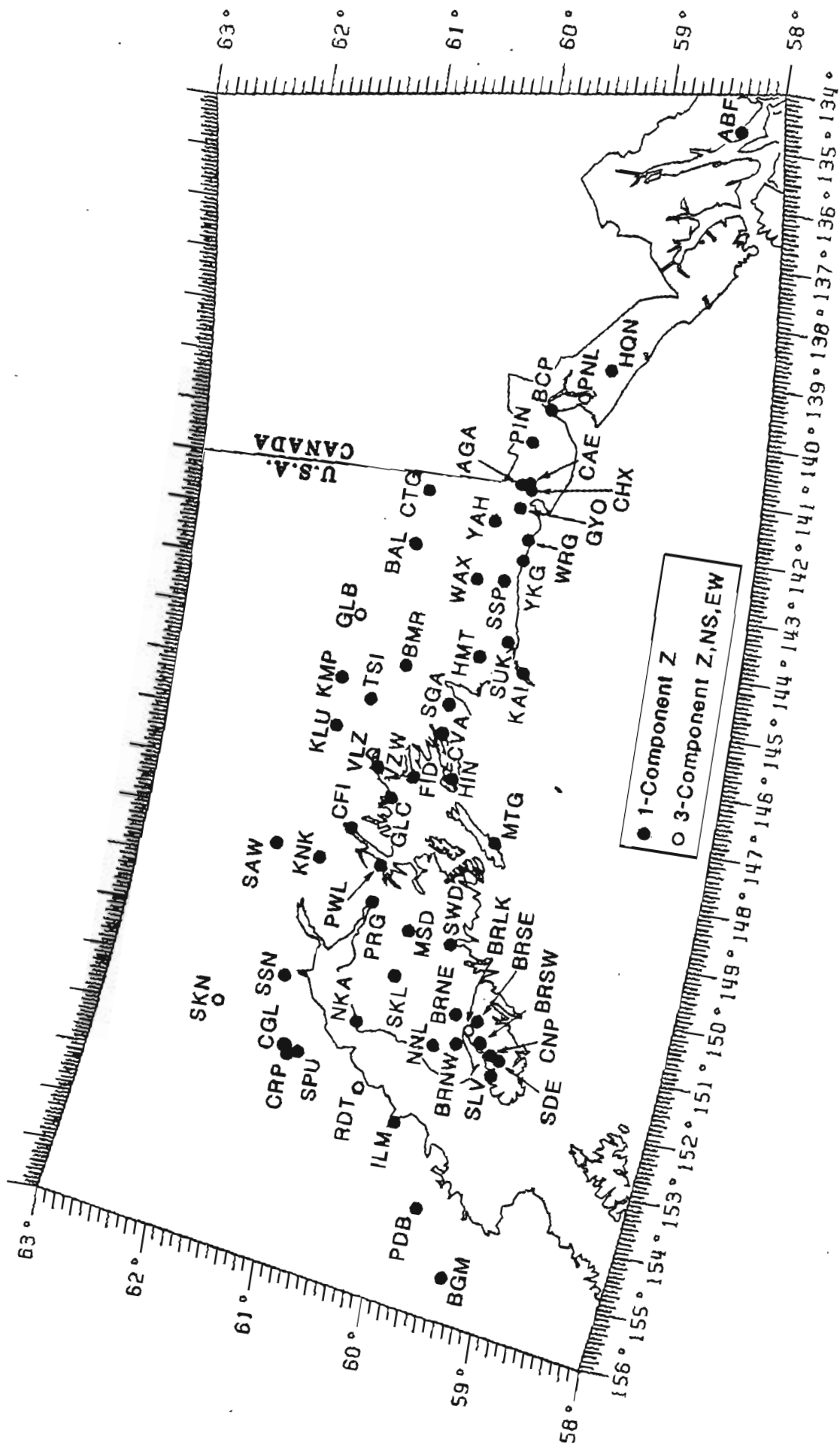
TIDE GAUGES -ALASKA

ABRV	LAT.	LONG.	INST/PI	INST
	51	51.90	176	38.70
SAD	54	56.30	160	12.50
PRC	55	21.00	160	21.50
PRS	55	13.00	159	52.00
SMH	54	56.30	159	15.50
			STLS/MORRIS	TIDE
			LDGO/BILHAM	TIDE
			LDGO/BILHAM	TIDE
			LDGO/BILHAM	TIDE
			LDGO/BILHAM	TIDE



SEISMOMETERS -ALASKA

ABRV	LAT.	LONG	Z,NS,EW	NAME	INST/PI	INSTR
ABF	58 22.88	134 38.68	Z	AUKE BAY	USGS/PAGE	SEIS
AGA	60 09.25	141 02.88	Z	AGASSIZ LAKES	USGS/PAGE	SEIS
BAL	61 02.17	142 28.67	Z	BALDY	USGS/PAGE	SEIS
BCP	59 57.28	139 38.18	Z	BANCAS POINT	USGS/PAGE	SEIS
BGM	59 23.56	155 13.76	Z	BIG MOUNTAIN	USGS/PAGE	SEIS
BMR	60 58.09	144 36.18	Z	BREMNER RIVER	USGS/PAGE	SEIS
BRLX	59 46.05	158 53.13	Z,NS,EW	BRADLEY LAKE	USGS/PAGE	SEIS
BRNE	59 54.65	158 39.13	Z	BRADLEY LAKE NE	USGS/PAGE	SEIS
BRNW	59 58.25	151 18.15	Z	BRADLEY LAKE NW	USGS/PAGE	SEIS
BRSE	59 42.33	158 48.25	Z	BRADLEY LAKE SE	USGS/PAGE	SEIS
BRSW	59 38.46	151 02.69	Z	BRADLEY LAKE SW	USGS/PAGE	SEIS
CAE	60 05.05	148 59.33	Z	CAETANI RIVER	USGS/PAGE	SEIS
CFI	61 18.96	147 45.99	Z	COLLEGE FIORO	USGS/PAGE	SEIS
CGL	61 18.46	152 08.48	Z	CHITNA GLACIER	USGS/PAGE	SEIS
CHX	60 03.75	141 07.18	Z	CHAIX HILLS	USGS/PAGE	SEIS
CNP	59 31.55	151 14.16	Z	CHINA POOT	USGS/PAGE	SEIS
CRP	61 16.02	152 09.33	Z	CRATER PEAK	USGS/PAGE	SEIS
CTG	60 57.98	141 28.88	Z	CHITNA GLACIER	USGS/PAGE	SEIS
CVA	60 32.79	145 44.96	Z	CORDOVA	USGS/PAGE	SEIS
FID	60 43.73	146 38.79	Z	FIDALGO	USGS/PAGE	SEIS
GLB	61 26.51	143 48.63	Z,NS,EW	GILAHINA BUTTE	USGS/PAGE	SEIS
GLC	60 53.44	147 04.38	Z	GLACIER ISLAND	USGS/PAGE	SEIS
GYO	60 08.78	141 28.29	Z	GUYOT	USGS/PAGE	SEIS
HIN	60 23.81	146 38.18	Z	HINCHINBROOK IS	USGS/PAGE	SEIS
HMT	60 28.19	144 15.54	Z	HAHILTON	USGS/PAGE	SEIS
HON	59 27.18	138 52.62	Z	HARLEQUIN	USGS/PAGE	SEIS
ILM	60 18.92	152 48.97	Z	ILIAMNA	USGS/PAGE	SEIS
KAI	59 55.61	144 24.98	Z	KAYAK ISLAND	USGS/PAGE	SEIS
KLU	61 29.87	145 55.21	Z	KLUTINA	USGS/PAGE	SEIS
KMP	61 30.78	145 01.09	Z	KIMBALL PASS	USGS/PAGE	SEIS
KNK	61 24.78	148 27.34	Z	KNIK GLACIER	USGS/PAGE	SEIS
MSP	60 29.35	149 21.54	Z	MOOSE PASS	USGS/PAGE	SEIS
MTG	59 54.71	147 29.82	Z	MONTAGUE IS	USGS/PAGE	SEIS
NKA	60 44.58	151 14.28	Z	NIKISHKA	USGS/PAGE	SEIS
NNL	60 02.53	151 17.78	Z	NINILCHIK	USGS/PAGE	SEIS
PDB	59 47.27	154 11.85	Z	PEDRO BAY	USGS/PAGE	SEIS
PIN	60 05.88	148 18.48	Z	PINNACLE	USGS/PAGE	SEIS
PNL	59 48.06	139 23.82	Z	PENINSULA	USGS/PAGE	SEIS
PRG	60 51.07	149 01.21	Z	PORTAGE	USGS/PAGE	SEIS
PWL	60 51.55	148 28.09	Z	PORT WELLS	USGS/PAGE	SEIS
RDT	60 34.43	152 24.37	Z,NS,EW	REDOUBT	USGS/PAGE	SEIS
SAW	61 48.49	148 19.98	Z	SAWMILL	USGS/PAGE	SEIS
SDE	59 26.68	151 16.92	Z	SADIE COVE	USGS/PAGE	SEIS
SGA	60 32.04	145 12.42	Z	SHERMAN GLACIER	USGS/PAGE	SEIS
SKL	60 30.86	158 12.96	Z	SKILAK	USGS/PAGE	SEIS
SKN	61 58.82	151 31.78	Z,NS,EW	SKWENTHA	USGS/PAGE	SEIS
SLV	59 28.28	151 34.83	Z	SELDOVIA	USGS/PAGE	SEIS
SPU	61 18.98	152 03.26	Z	SPURR	USGS/PAGE	SEIS
SSN	61 27.83	150 44.68	Z	SUSITNA	USGS/PAGE	SEIS
SSP	60 12.38	142 49.88	Z	SUNSHINE POINT	USGS/PAGE	SEIS
SUK	60 03.32	143 47.31	Z	SUCKLING HILLS	USGS/PAGE	SEIS
SWD	60 06.22	149 26.96	Z	SEWARD	USGS/PAGE	SEIS
TSI	61 13.57	145 28.24	Z	TSINA	USGS/PAGE	SEIS
VLZ	61 07.89	146 19.92	Z,NS,EW	VALDEZ	USGS/PAGE	SEIS
VZW	61 03.54	146 33.24	Z	VALDEZ WEST	USGS/PAGE	SEIS
WAX	60 26.98	142 01.18	Z	WAXELL RIDGE	USGS/PAGE	SEIS
WRG	60 02.27	142 01.98	Z	WHITE RIVER GLACIER	USGS/PAGE	SEIS
YAH	60 21.51	141 44.78	Z	YAHTSE	USGS/PAGE	SEIS
YKG	60 04.28	142 25.3	Z	YAKATAGA	USGS/PAGE	SEIS



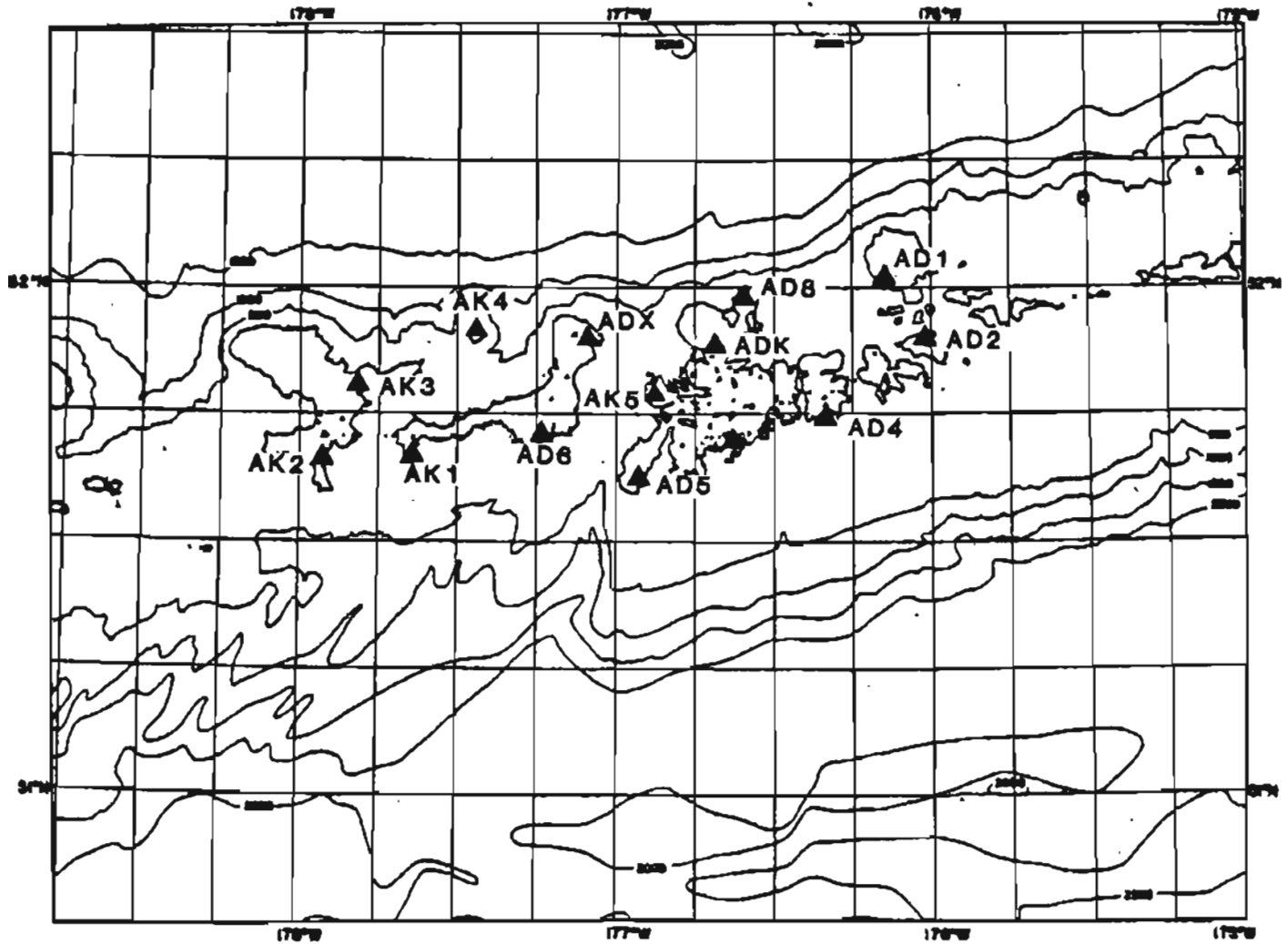


Figure 1. Map of stations of the Adak seismic network. Bathymetric contours are at 500 fathom intervals (1 fathom = 1.83 meters). Filled triangles show the locations of the fourteen stations of the network.

TILTMETERS -ALASKA

ALASKA TILTMETERS

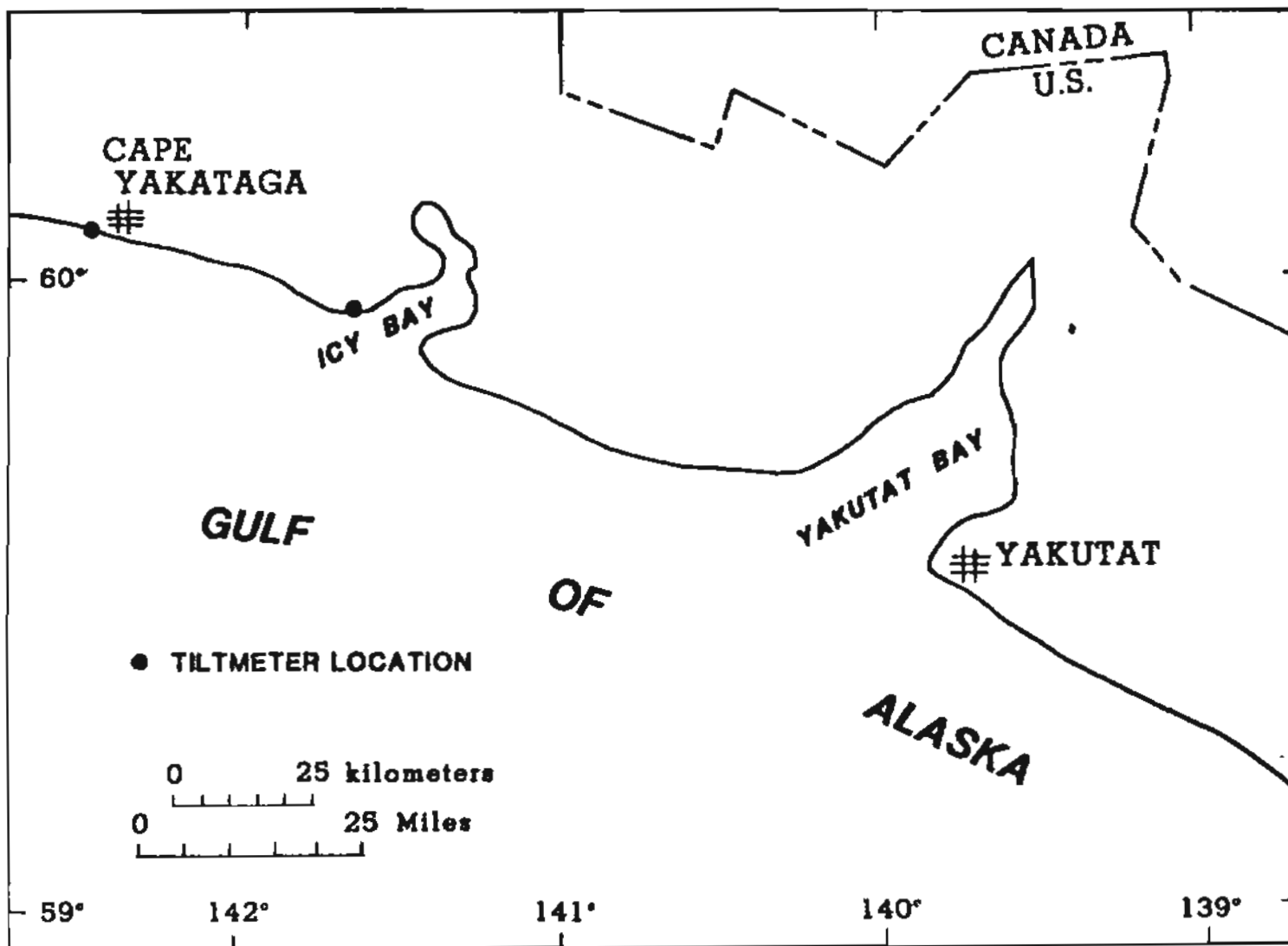
CAPE YAKATAGA

SATELLITE TELEMETRY I.D.16CFIA6: TRANSMIT INTERVAL=3 HRS, SAMPLE INTERVAL=1 HR

#611 62 24.17 142 25.18	#1 E - W	CAPE YAK	USGS/MORTEN TILT
#612 62 24.17 142 25.18	#1 N - S	CAPE YAK	USGS/MORTEN TILT
#621 62 24.17 142 25.18	#2 E - W	CAPE YAK	USGS/MORTEN TILT
#622 62 24.17 142 25.18	#2 N - S	CAPE YAK	USGS/MORTEN TILT

THE FOLLOWING TILTMETER CLUSTERS ARE LOCATED ON ADAK ISLAND.

51 53.88 176 39.88	EAST	STLS/MORRIS TILT
51 53.68 176 41.88	NORTH - EAST	STLS/MORRIS TILT
51 53.68 176 41.88	NORTH - WEST	STLS/MORRIS TILT
51 52.92 176 39.68	WEST - EAST	STLS/MORRIS TILT
51 52.92 176 39.68	WEST - WEST	STLS/MORRIS TILT
51 52.32 176 40.62	SOUTH - EAST	STLS/MORRIS TILT
51 52.32 176 40.62	SOUTH - WEST	STLS/MORRIS TILT



TRILATERATION -ALASKA

• The longitudes and latitudes for the USGS trilateration stations in Alaska are average network coordinates. The number of stations in each network is designated for the USGS-operated stations. The trilateration lines are 18-35 km in length and are measured annually using a laser ranging device (Geodolite).

FAIR	8	59	30.03	138	47.93	FAIRWEATHER	USGS/PRESC	TRILAT
ICY	7	60	03.47	141	19.94	ICY BAY	USGS/PRESC	TRILAT
NUNAT	6	59	51.29	139	03.90	NUNATAK	USGS/PRESC	TRILAT
RICH	13	63	22.67	145	44.99	RICHARDSON HWY	USGS/PRESC	TRILAT
SHUMA	18	55	13.97	160	03.27	SHUMAGIN	USGS/PRESC	TRILAT
WINDY	18	63	26.81	148	51.12	WINDY	USGS/PRESC	TRILAT
YAKAT	16	60	17.81	142	36.83	YAKATAGA	USGS/PRESC	TRILAT

