

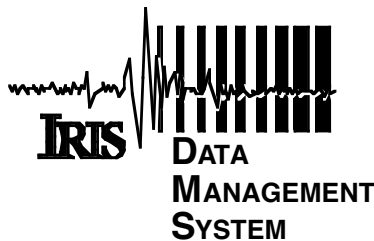
COYOTE CREEK

Prof. Michael Asten
Monash University, Melbourne Australia
(on USGS External Research Grant FY2004)
Email: masten@mail.earth.monash.edu.au

Mr Russell Sell
USGS Menlo Park CA
Email: rwsell@usgs.gov

Mr Chris Dietel
USGS Menlo Park CA

Assembled Data Set 04-016



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**DATA REPORT ON USE OF IRIS INSTRUMENTS
APRIL-MAY 2004**

PURPOSE: MICROTREMOR OBSERVATIONS IN SANTA CLARA VALLEY

PERSONNEL

Prof. Michael Asten
Monash University, Melbourne Australia
(on USGS External Research Grant FY2004)
Email: masten@mail.earth.monash.edu.au

Mr Russell Sell
USGS Menlo Park CA
Email: rsell@usgs.gov

Mr Chris Dietel
USGS Menlo Park CA

Duration

22 April 2004 to 30 April 2004

The Experiment

Arrays of seven seismometers were placed at five sites in the Santa Clara valley for the purpose of observing the microtremor (background seismic noise) field. The field is to be analysed using the SPAC technique in order to determine the shear-wave velocity profile to bedrock beneath each of the sites.

Coordinates of each site were selected on availability of access, and where possible laid out using compass and tape. Coordinates were measured using a hand-held GPS device.

Instruments used

Recorders were RefTek 72A-07 instruments, recording 3 components. Geophones were Guralp Systems CMG-40T seismometers with passband 30 sec to 50Hz.

Timing of recording was by GPS clocks.

Recorders and seismometers were linked together by labels A to G for the duration of the survey.

Serial numbers are as follows:

TABLE 1

System label	Recorder	Sensor	
A	7044	T4E08	
B	7070	4E36	
C	7095	4E67	recorder was 7064 for huddle test but changed for all arrays
D	7046	T4E83	
E	7092	4F03	
F	7050	4410	
G	7100	4420	
S	7064	4301	

Sites and Recording times

SITE	COMMENCEMENT DATE.TIME (GMT)	DURATION
Huddle test: USGS warehouse:	2004.113.18.04.18	for 5 minutes
McGlincey MCGY:	2004.117.20.44.00	for 1 hour
Guadalupe GUAD:	2004.119.19.15.00	for 1 hour
Saratoga Park STGA:	2004.120.20.40.00	for 1 hour
Guadalupe Large array GUAD2:	2004.121.23.15.00	for 1 hour
Santana Park SNPK:	2004.121.20.23.00	for 1 hour

Coordinates of sites occupied

(Labels A to G refer to sites occupied by systems specified in Table 1 above. Other labels refer to points surveyed for geographic reference only). Eastings and northings are in WGS84, UTM.

TABLE 2

MCGLINCEY SURVEY

System	Easting	Northing	
A	593548	4126156	
B	593660	4126306	
C	593730	4126134	relabelled H on sketch map
D	593715	4126109	
E	593665	4126196	
F	593765	4126202	
G	593715	4126165	
K	593745	4126151	

GUADALUPE SURVEY

System	Easting	Northing	
A	594258	4137213	
B	594169	4137152	
C	594153	4137265	
D	594209	4137213	
E	594184	4137193	
F	594179	4137226	
G	594191	4137210	
water bore?	594181	4137298	
M	594189	4137310	on dike in line w fence
N	594202	4137295	bend in dyke
P	594222	4137264	bend in dike
Q	593999	4137555	at road
R	594062	4137616	north dike at road
S	594227	4137371	north dike in line w fence
T	594285	4137340	end bend I dike
U	594490	4137202	turn of dike
V	594529	4137048	dike at fwy

SARATOGA PARK

System	Easting	Northing	
A	589040	4128901	
B	589141	4128738	
C	588958	4128720	
D	589017	4128840	
E	588993	4128762	
F	589016	4128796	
G	589044	4128782	
K	589002	4128803	
M	589041	4128809	corner Cordelia/Hayet
N	589134	4128770	westside, HappyVly/Hayet
P	589149	4128759	eastside
WaterHatch	588951	4128719	

GUADALUPE SURVEY ARRAY2

System	Easting	Northing
A2	594144	4137443
B2	594371	4137295
C2	594144	4137162
G2	594202	4137294
GatePost	594079	4137180
REF	594101	4137174

SANTANA PARK

System	Easting	Northing	
A	593291	4130624	
B	593459	4130892	
C	593614	4130642	
D	593417	4130630	
E	593524	4130647	
F	593458	4130661	
G	593462	4130727	
K	593466	4130637	
M	593614	4130728	NE corner of park
N	593615	4130635	SE corner of park
P	593437	4130738	NW corner of park
Q	593435	4130601	SW corner of park