



Number 201 June 8, 1989

PRESIDENT: A16V	AWARDS: K6ZM	(415) 837-6894
VP/CC: K16EZ (415) 820-9364	JUG EDITOR: K16EZ	(415) 820-9364
SEC/TREAS: N6EK (415) 527-7655	DIRECTORS: AD6E	(408) 526-1549
	WZ6Z	(415) 562-1716
NCCC REPEATER 147.240 (+600)	N6KT	(408) 374-6123
	WB6MZQ	(415) 254-3350

SUMMER EVENTS AND BEYOND

JUNE 10-12	ARRL VHF PARTY
JUNE 18-19	ALL ASIAN DX CONTEST (SSB)
JUNE 24-25	FIELD DAY (NCCC MEETING)
JULY 1	CANADA DAY CONTEST
JULY 8-9	IARU HF WORLD CHAMPIONSHIP
JULY 9	JULY JUG DEADLINE
JULY 15-16	CQ WW VHF WPX CONTEST
JULY 21	NCCC MEETING AT MIGUEL'S (N6KT)
JULY 29-30	FLORIDA QSO PARTY
AUGUST 5-6	ARRL UHF CONTEST
AUGUST 8	AUGUST DEADLINE FOR THE JUG
AUGUST 19	NCCC SUMMER PICNIC
AUGUST 26-27	ALL ASIAN DX CONTEST (CW)
SEPTEMBER	CQP
OCTOBER 28-29	CQ WW DX SSB CONTEST
NOVEMBER 25-26	CQ WW DX CW CONTEST

!!!!!!!!!!!!!!!!!!!!FIELD DAY 1989!!!!!!!!!!!!!!!!!!!!!!!!!!!!

This year NCCC will participate as a club in The Field Day Contest. This will not be a serious attempt by NCCC to break old records. Instead this event should be viewed as a good old NCCC gathering. The QTH a charming hill with a magnificent view of the Bay and San Ramon Valley. A close examination revealed a clear shot in all directions. This operation will also double as a regular NCCC meeting.

Please note if you are really interested in operating during Field Day please let me know as soon as possible. At this time we are looking for just about everything. If you have had experience organizing and running FD in the past please call. I need all the HELP in the World to make it. NCCC business meeting will be held at 12 pm, high noon Saturday.

!!!!!!!!!!!!!!!!!!!!FUN!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Alex R. K16eZ

Minutes of the Meeting of 19 May 1989

Message #747 From: N6EK Subject: minutes of meeting

1. The meeting was called to order at 8:00 PM at Miguel's Restaurant in Hayward by A16V.
2. The minutes of the meeting of 14 April 1989 were approved as read.
3. The Treasurer's Report of 15 April 1989 was approved as printed in the JUG.
4. W6RGG reported that the repeater is in good shape.
5. A16V reported that the next meeting will be held at the Field Day operation on June 24th at the hilltop location of W6NV. K16EZ will coordinate the operation, and anyone wishing to participate should contact him.
6. K16EZ reported that the deadline for the next JUG is 8 June and that rosters will be mailed to those who haven't picked one up already within the next couple of weeks.
7. N6BIS suggested meetings alternate between the South Bay and the East Bay. WZ6Z indicated that last year's survey showed no clear preference for where to meet; most members wanted to meet near where they lived. W6RGG moved that the July and September meetings be held at Miguel's in Hayward. Motion Passed.
8. N6EK reported that the Pleasanton Hotel is already booked for our Christmas Banquet dates for both 1989 and 1990. A reservation has been made at the Pleasanton Hotel for the Awards Banquet on 16 March 1990. Considering item 7, the group decided to seek a Christmas location in the South Bay. K16CG agreed to find a location.
9. K16EZ reported that NC7K had qualified for the Five Million Point Award, but had inadvertently been omitted from the recent group of recipients. His award will be presented at an early date. Please send all scores to be counted toward the Five Million Point Award to K16EZ. Also, it was noted that the board clarified the rules for the award to ensure that ARRL DX Contest scores submitted for the NCDXC can also be submitted toward the Five Million Point Award.
10. A16V passed around the plaque for top club score for the 1988 WPX which he accepted on behalf of NCCC at Dayton.
11. It was requested that the extremely good service, excellent food, and reasonable prices at Miguel's be noted in the minutes.
12. The program for the night was a presentation by A16V of the all-time world-record-breaking P40V operation in CQWW. A twelve minute video developed by ICOM was presented followed by an excellent talk and set of slides.
13. The meeting adjourned at 11:00 PM.

K16EZ de W6OAT 29-May 2315Z >

PACKET\RACKET

Message #844 From: AD6E Subject: score rumor
 Hi Alex - A "reliable source" told me the results from the AD6E expedition to N6TU was: 1742 QSOs; 6316 QSO pts; 596 PXs; for grand total of 3,764,336 points! Bands sucked! both 80 and 10 never opened to anywhere anytime. I could hear east coast running high rates into EU on 10 but that didn't help us much.. Help came in the forms of N6TU and K6XO. Alex - I'm finally thru screwing around with the WPX logs! Turns out there were still few dupes in the log due to poor data entry (I won't say whose.. hi).

160 m -	0 QSOs	0 pts
80 m -	18 QSOs	58 pts
40 m -	361 QSOs	1600 pts
20 m -	660 QSOs	1553 pts
15 m -	634 QSOs	1445 pts
10 m -	71 QSOs	148 pts
totals:	1744 QSOs	4804 pts * 598 PXs
		= 2,872,792 final score

73 de Al

K16EZ de KN6J 5-Jun 0135Z >
 Message #1149 From: N6TV Subject: WPX CW score

Hi Alex. Here's my duped score:

Band	QSOs	Points
1.8	0	0
3.5	9	36
7	50	190
14	488	1260
21	329	811
28	11	26

 Total 887 2,323 X 393 prefixes = 912,939
 =====

73,
 K16EZ de KN6J 11-Jun 1953Z >
 Bob

Message #915 From: NC7K Subject: WPXCW89 SCORE

Hi Alex not to good a time this contest...Lots of work on tower Thursday and Friday... Finished 45 mins. before start... Had to then clean up shack set up computer and take a shower. Real goofy conditions!!! 20 and 40 late night were great! Rest of time real slow

Biggest thrill? My NEW neighbor knocking on my door at 11:30 pm Saturday night! That was fun! Anyhow here is the breakdown:
 QSO=757 MULT=375 QSO POINTS=1977 -> 732,375 FINAL SCORE
 More later... cul sk...

K16EZ de W6OAT 4-Jun 0249Z >

WPX CW SCORES: (reported)

CALL	CLASS	FINAL SCORE	OP's
AJ6V	SO(A)	1,348,490	
NA6A	MO(ST)	1,705,041	W6REC & N6T1B
NC7K	SO(A)	741,375	
AD6E	MO(MT)	2,872,792	K6XO, N6TU, AD6E
WZ6Z	MO(MT)	5M+	WZ6Z, K3EST, WA6VEF
			VE7NKI, N6IG, K6TMB
			W6OAT, W6OSP, W6RGG
WA6AUE	MO(ST)	2,023,400	WA6AUE, KE7V
A16V	MO(ST)	1.5M ?	A16V+?
K16EZ	SO(10M)	1,025	35 QSO
N6TV	SO(A)	912,939	

Message #802 From: KA6ING Subject: JUG
 Hey Alex how about putting in something on Packet, like in GO
 list or something else since it is playing big part in contesting????
 de KA6ING Louse

K16EZ de W6OAT 29-May 2312Z >

Message #1140 From: N6EK Subject: nccc bod minutes

Board Minutes of 8 June 1989

1. The meeting was called to order at 7:30 PM at the home of N6EK A16V, K16EZ, AD6E, and N6EK were in attendance.
2. A16V is providing a 7KW diesel generator and fuel for field day.
3. A16V announced that Rich, N6KT, will be the speaker for the July 21 meeting. The topic will be "Basic contest strategies from the holder of the world record for most QSO's in a weekend." (The meeting will be at 7:30 upstairs at Miguel's in Hayward.)
4. A16V will try to determine the site for the August picnic in time to announce it in the June JUG. The picnic is expected to be on Saturday, August 19 at noon.
5. The board approved the 1989-90 budget as printed in the May JUG. The budget will be presented to the membership for approval at the June meeting held in conjunction with the field day operation.
6. A16V will identify a person to spearhead the club's sweepstakes effort by the next board meeting.
7. The next board meeting is scheduled for the QTH of AD6E, 3330 Farthing Way, San Jose at 7:30 PM on August 8th. All are welcome. Call AD6E if you need directions.
8. The meeting was adjourned at 10:00 PM.

Respectfully submitted, N6EK
 K16EZ de KN6J 9-Jun 0028Z >

80 METER VERTICAL REPORT

This is to report my findings on the vertical with the radial ground system devised by Paul Mason, WA6EUZ.

I put up 3 verticals. Each 60 feet high, made of 2 inch irrigation aluminum tubing. I will discuss my experience using only one of them. The vertical is standard in every way except the 1/4 wave COAX radials and another, the standard wires. Both tuned about the same. On the air reports showed about 3 to 6 DB improvement favoring the COAX radials. Both antennas were superior over my 40/80 trapped dipole at 50 feet except into JA, where I got confusing results. The dipole never was better on any DX path. The dipole was always better under 500 to 800 miles. Under 200 miles the dipole was often 30DB better.

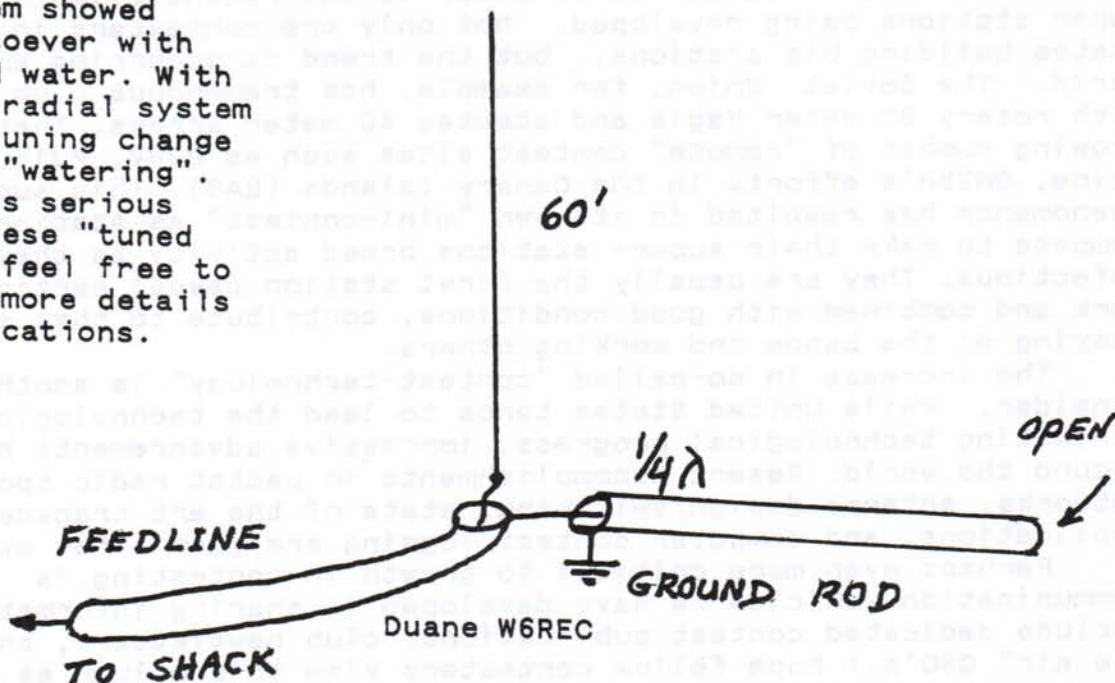
I discarded the plain wire radials and wired in tuned COAX radials. This time I used real COAX. Switching between these verticals usually shows the same report except to ZL. The vertical with hard line radials is always 5 DB lower. The test was run many evenings and over a period of 3 to 4 hours. By switching to the dipole we could see the angle of radiation change but the 2 verticals always showed about an S unit of difference. I have concluded that position or some other factor caused this difference. Other directions showed the same signal from both. ZL2BT was a great help with these tests.

After several contests, with help from Bill, N6TIB, we both feel that 80 meters is our best band where we can get through the pile ups.

We easily worked the 3W8, BY4 and other nice mults in CQ WW.

In case new members haven't heard of "COAX Radials", here is a diagram of Paul's system. I show only one radial to make it simple.

This system showed no change whatsoever with rain and ground water. With the plain wire radial system I found a big tuning change with a partial "watering". If a person gets serious about trying these "tuned COAX radials", feel free to contact me for more details and other applications.



News/Views Of On-The-Air Competition

This year's contest season has proven to be nothing short of spectacular as new records were set in many long-standing categories. As the results continue to come in, there seems to be no limit to the amount of activity and interest in contesting around the world. Beyond the obvious rise in solar activity, what is causing this dramatic increase?

Let's begin the analysis by providing some of the facts. In 1988 CQWW SSB Contest eight claimed scores for USA single operators broke the old record. Furthermore, four world single operator entries claimed scores over 10 million points! The same has proven true for 1989 ARRL DX contest. United States single operators were commonly exceeding 2500 QSOs in this year's SSB portion. The trend has continued into the CQ WPX SSB contest, yielding USA multi-multi scores in excess of 7200 QSOs and USA single operator scores with 3100 plus QSOs.

Another way of analyzing data is by looking at QSOs distributions by country. In recent years there has been a dramatic increase in European activity. This is especially true for Western Europe on SSB and Eastern Europe on CW. During the same period Japanese activity remained relatively constant (especially when compared to the previous sunspot high). Many East Coast USA stations' logs have been very competitive with little content from Japan. Of course, exceptions do occur, but the trend seems to support a growing number of European participants with much smaller growth from Asia.

Despite all the analysis, one can conclude that improved propagation is generally causing more interest in contesting. While there is certainly some merit in that logic the 1989 ARRL CW DX Contest experienced particularly poor conditions, yet the trend continued with high QSO totals and new records. The fact is that there are more participants around the world than ever before. This is evidenced by the dramatic increase in contest logs received by contest sponsors around the world. Another factor to consider is the recent climb in numbers of super stations being developed. Not only are contesters in the United States building big stations, but the trend is occurring around the world. The Soviet Union, for example, has tremendous club stations with rotary 80 meter Yagis and stacked 40 meter arrays. There is also a growing number of "remote" contest sites such as P40V, PJ1B, and Marti Laine, OH2BH's efforts in the Canary Islands (EA8). This super station phenomenon has resulted in its own "mini-contest" as station owners compete to make their super-stations breed activity as they tend to be infectious. They are usually the first station casual participants will work and combined with good conditions, contribute to that station staying on the bands and working others.

The increase in so-called "contest-technology" is another aspect to consider. While United States tends to lead the technological pack in contesting technological progress, impressive advancements have come around the world. Recent accomplishments in packet radio spotting networks, antenna design/switching, state of the art transceiver applications, and computer contest logging are just a few examples.

Perhaps even more critical to growth in contesting is the improved communication vehicles we have developed in sharing information. These include dedicated contest publications, club newsletters, and even "on the air" QSO's. I hope fellow contesters view this column as one of those vehicles to communicate ideas and suggestions that will benefit our mutual passion for contests.

 The KA4SBE Report and Other Stuff Like That
 KA4SBE @ KA4SBE

ITEM: If you like the last report, you'll like some more of that stuff. This time I had help from GLENN.. WB7DOW @KB7CFD

AX25L2V2	R2D2'S Ham call
Baud Rate	Cost of obscene phone calls
BBS	Ammo for an air rifle
CALIBRA	Malibu Beach Scenery
CANLINE	Six-Pack assembly plant
CANPAC	Several required for SuperBowl party
CMDTIME	Command time (Required for Military Hams)
CONPERM	Special at the Walla Walla Prison beauty salon
DWAIT	What's on D end of D barbells
MAXFRAME	What's MAX's picture is in
MicroPower	Less than a California Kilowatt
MON	Jamacian for MAN
NEWMODE	The lawn after you finished with mower
RS-232	# of trips required to Radio Shack for parts to get your station up on Packet
RETRY	What a loser does in a singles bar
Terminal	What you are after you buy one
TheNet	Formal attire for crazy packeteers
Tiny-2	Twiqqy
TXDELAY	Waiting for the IRS to send you a check
TXFLOW	Wallet to Washington
USERS	Noncoping hams who turn to recreational chemicals
X-OFF	What you'd like to say to a "LID" on the air
XON	Station where you can get FULLDUP
ICOM	I can't operate mine
Yaesu	River in Florida
Kenwood	Petrified Kenneth
DRAKE	Darn Radio Almost Killed Everyone
UNIDEN	Radio for United Cub Scouts
Unrecognized Command	Get lost

REWARD OFFERED!!!!

A reward of 500 Microfarads is offered for the information leading to the arrest of hopalong Capacity. This unrectified criminal escaped from a weston primary cell where he had been clamped in ions awaiting the gauss chamber. He is charged with the induction of an 18-turn coil named Milli Henry, who was found choked and robbed of valuable joules. He is armed with a carbon rod and is a potential killer. Capacity is also charged with driving a DC motor over a wheatstone bridge and refusing to let the band pass. If encountered he may offer a series resistance. The Electromotive Force spent the night searching for him in a magnetic , where he had gone to earth. They had no success and believe he returned ohm via a short circuit. He was last seen riding a kilocycle with his friend Eddy Current, who was playing a harmonic.

Taken from Dots and Dashes

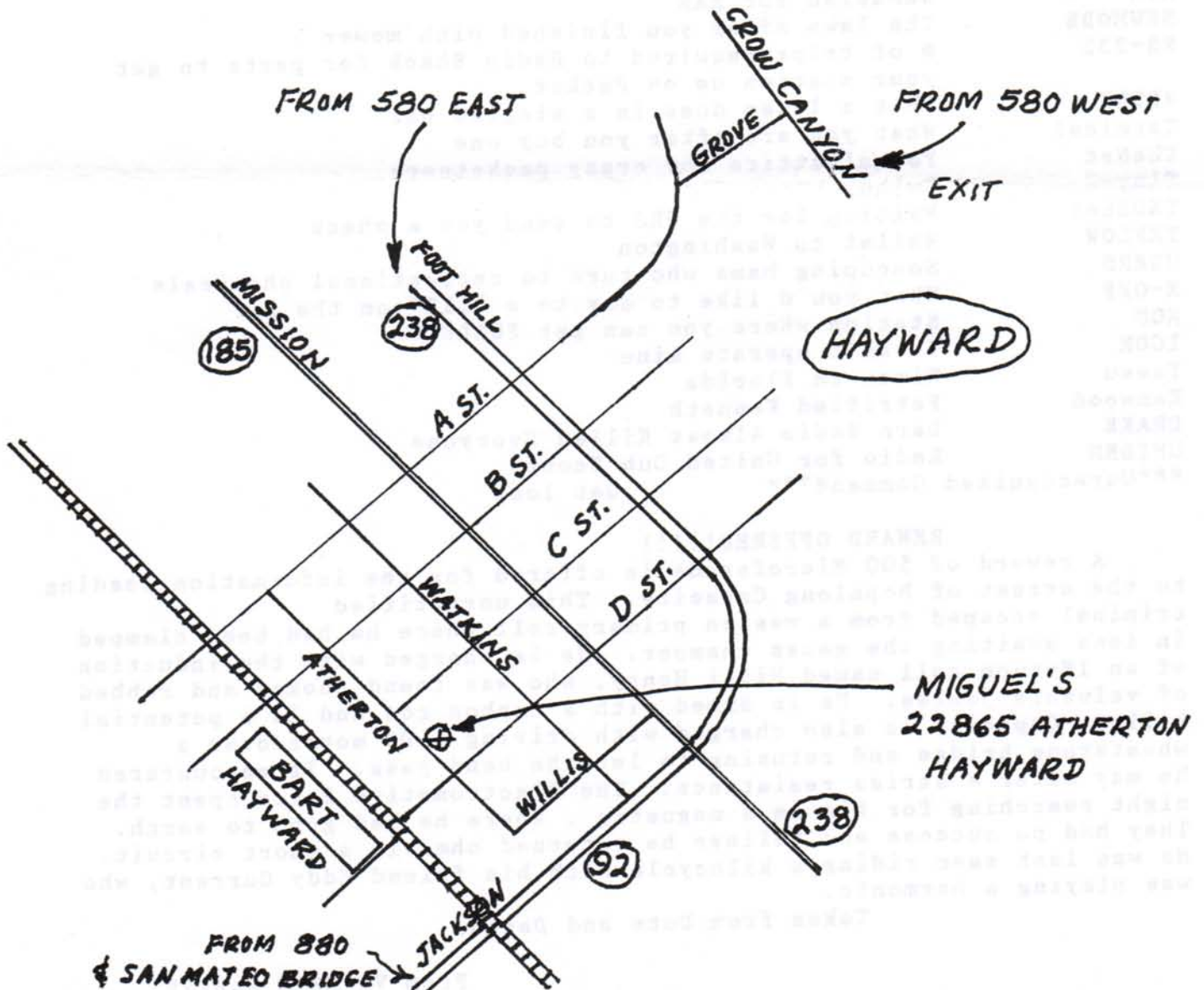
From VE7NKI@ WA6VEF

This month's contributors to the Jug

N6EK	VIA
AD6E	PACKET AND IN PERSON
W6REC	PACKET AND IN PERSON
A16V	US MAIL
WA6VEF AND VE7NKI	IN PERSON
KA6ING	US MAIL
N6TV	PACKET
WZ6Z	PACKET
NC7K	PACKET
W6NV	IN PERSON

From the editor:

I would like to thank everyone for all the help that I received while working on this edition of The Jug. Please keep the ideas and articles coming. I can always find room on the pages of The Jug. If you have questions concerning your article please contact me on the telephone or leave a message on The Packet DX Spotting network.

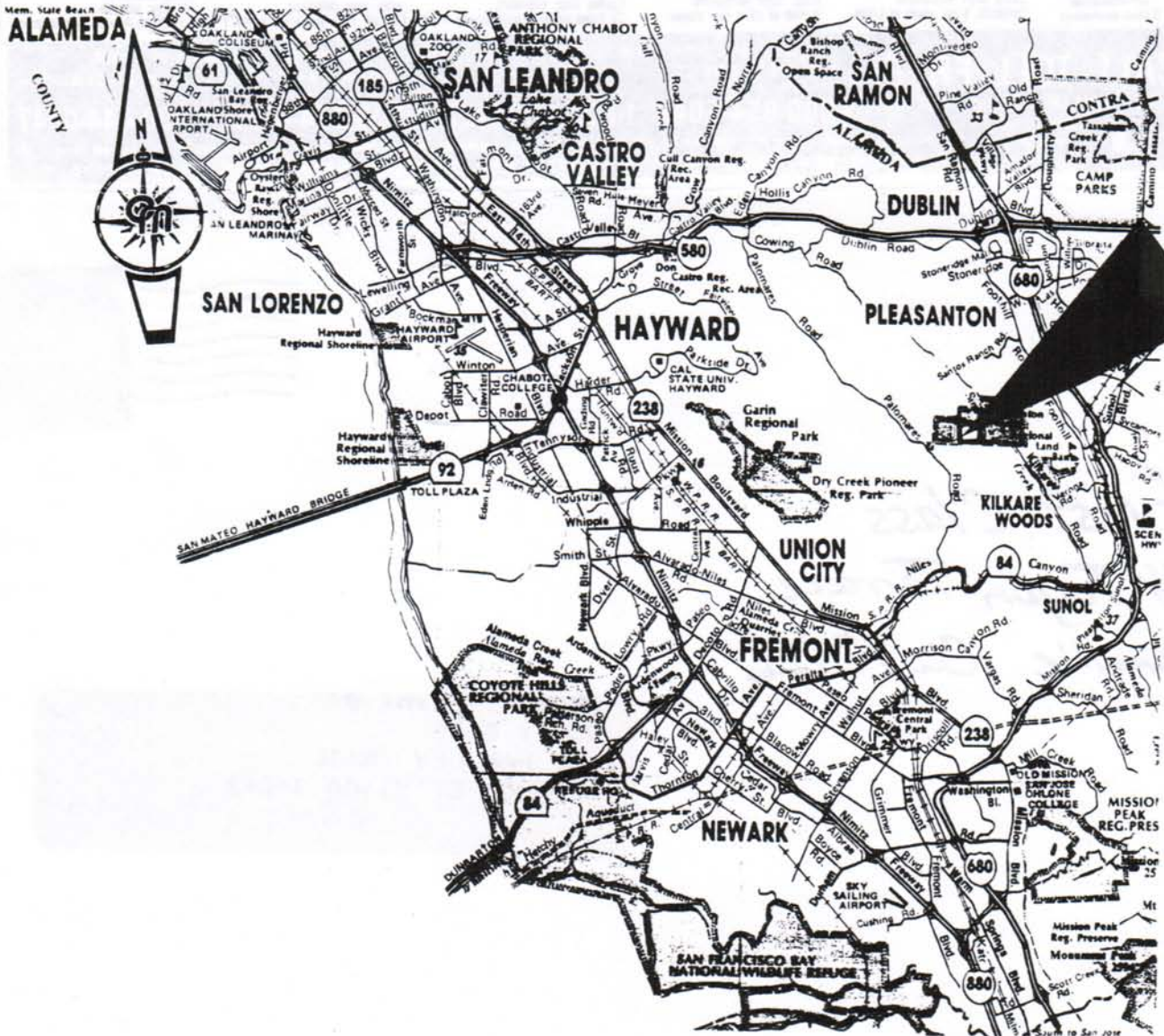


**FIELD DAY 1989 ON SUNOL RIDGE
Oliver's (W6NV) Secret Hill Top**

DIRECTIONS:

- Take highway 580 to Palomares Road and head South or
- Take Niles Canyon Road (Hwy 84) and turn left on Palomares Road (North)

Go to the blue gate at 34400 Palomares Road, and look for the NCCC sign on the gate. Proceed across the bridge and go approximately 1.5 miles up the gravel road. When you get to the top you will see a ranch house with tower, take the left hand fork (look for an arrow), proceed south along the ridge about 0.2 mile to a gate. You have arrived: 120 acres of open space, 360 degree view with a great drop off to the east, room for all. The private road is gravel and is fairly steep in places; if you are driving an unloaded pickup truck you may need to pick up some rocks to get good traction. Don't bring your new Jaguar or BMW; this is Field Day.



WORLDWIDE DISTRIBUTION



HAM RADIO OUTLET

LARGEST HAM OUTLET IN THE WORLD

edge has joined the
Ham Radio Outlet
Nationwide Team

NOW

9

STORE BUYING POWER



All Major Brands in Stock Now!



Bob Ferrero W6RJ
President/Owner
Jim Rafferty W6RJ
VP-National
Sales Manager

ANAHEIM, CA 92801
2620 W. La Palma
(714) 761-3033, (213) 860-2040
Belmont, Olanovans &
Knotts Berry Farm

ATLANTA, GA 30340
6371 Buford Hwy.
(404) 253-0700
Larry, Mgr. W04AGW
Dorinda, 1 mi north of I-285

BURLINGAME, CA 94010
999 Howard Ave.
(415) 342-5757
George, Mgr. W6GDSV
5 miles south on 101 from SFO

OAKLAND, CA 94608
2210 Livingston St.
(415) 534-5757
Rich, Mgr. W6SWYB
15-880 at 23rd Ave Home

PHOENIX, AZ 85018
1702 W. Camelback Rd.
(602) 242-3515
Bob M7RDM, Gary W67SLY, Mgr.
East of Hwy. 17

SALEM, NH 03078
224 N. Broadway
1-800-444-0047
Curtis, Mgr. W64KZL
2.8 miles north of Boston exit 1193

SAN DIEGO, CA 92123
5375 Kearny Vista Rd
(619) 560-4900
Tom, Mgr. W6MMA
Hwy 163 & Claremont Mesa Blvd.

WOODBRIDGE, VA 22181
14803 Build America Drive
1-800-444-4799
John, Mgr. W64GLZ
Exit 54 195 South to US RT 1

STORE HOURS 10 AM-6:00 PM

CLOSED SUNDAYS

VAN NUYS, CA 91411
5285 Sepulveda Blvd.
(818) 988-2212
Al, Mgr. K5YRA
San Diego Freeway at Victory Blvd

CALL TOLL FREE

IN CALIFORNIA CALL STORE NEAREST YOU

Call any time zone 800 number during business hours from coast to coast.

MID-WEST/WEST
ANAHEIM 9 to 5:30 PST

1-800-854-6046

SOUTHEAST
ATLANTA 9 to 5:30 EST

1-800-444-7927

MID-ATLANTIC
WOODBRIDGE 9 to 5:30 EST

1-800-444-4799

NEW ENGLAND
SALEM 9 to 5:30 EST

1-800-444-0047



Toll free including Hawaii. Phone Hrs: 7:00 am to 5:30 p.m. Pacific Time. California, Arizona and Georgia customers call or visit nearest store. California, Arizona, Georgia and Virginia residents please add sales tax. Prices, specifications, descriptions subject to change without notice.



First Class
44 Toyon Terrace
Danville Ca 94526

W60AT Exp: 89
RUSTY EPPS
651 HANDLEY TRAIL
REDWOOD CITY, CA 94062