



RF



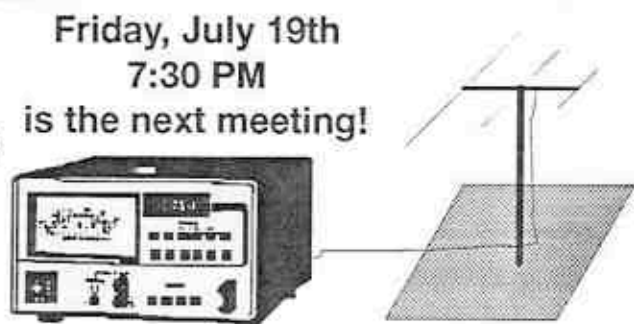
ORANGE COUNTY AMATEUR RADIO CLUB

VOL. XXXII NO. 7

P.O. BOX 3454, TUSTIN, CA 92681

JULY, 1991

Our Speaker:
Jeff Towle,
WA4EGT on
Packet Gold
software!



The Prez Sez.....
 by Ken Konechy, W6HHC

I DECLARE THE 1991 OCARC FIELD DAY A GREAT SUCCESS!!

It appears that this year's FIELD DAY operation was very successful from several points of view:

- First, this year's FD was the second highest score that the OCARC had ever run up. And this performance was in spite of some very BAD SOLAR FLARES.

- Second, we had fantastic turn out and participation by club members and friends of the club. Nancy video-taped over 30 people at the FD site on Friday afternoon to help with the set-up preparations. This level of participation meant that no one had to do all the work alone.

- Third, the OCARC members and visitors appeared to genuinely enjoy them-

selves and have a good time while still producing great results. It goes to show that OCARC can work hard and still have fun.

- Fourth, Don / KC6ONZ, our FOOD CHRMN at FD made sure that nobody starved. He had plenty of food and the tastiest menu that I can remember at a FIELD DAY event.

- Finally, many operators were new to FD and had a chance to "cut their teeth" on operating a contest. This is how clubs grow new TEAM CAPTAINS for future events.

I want to thank each participant at OCARC FD for their help to make this year so successful, and I want to especially thank FRANK SMITH / WA6VKZ, our 1991 FD CHAIRMAN, for planning the entire event. **SEE YOU AT THE JULY MEETING!!**

NEW TIME!

Mondays 6:15pm 144.330 simplex
 WB6NOA, Gordo - Code practice and "News behind the News"

Mondays 8:00 pm 28.333
 Bob, AB6CH & David, WA6TWF, Beginner's Net, Code Practice and Tech Talk.

Saturday, July 27th, 11:00 AM
 440 Remote Base Luncheon at Tony Roma's at the SE corner of Orangethorpe and Harbor in Fullerton. Contact David, WA6TWF, (714) 535-5528 for more information. Visitors welcome!

\$5.00 TO Nancy, N6XQR, at the next meeting will get you a copy of the 2 hour VHS Field Day tape.

<i>In This Issue.....</i>	<i>Page</i>
GROUNDING SYSTEM	2
JUNE MEETING MINUTES	2
NET NOTES	3
JULY BOARD MINUTES.....	4
HAWAII BEACONS	5
RADIO MODS DATABASE	6
EARTHQUAKE FREQ!	7
ACTIVITIES CHAIR/AUTOBIO	8
FIELD DAY SCORES	9

Join us for our General Meeting! Visitors welcome! ...
Another raffle for a Yaesu FT470 Dual Band Handheld Radio has begun...
only 450 tickets will be sold.. Get Yours!

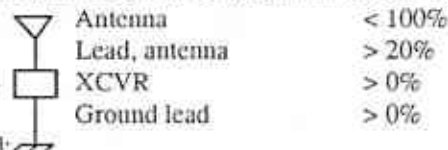
Grounding the Transceiver

by Frank Smith, WA6VKZ

Ed. Note: Frank put this ground on my HF rig at home and ELIMINATED my TVI problems on 15 and 20 meters!

Materials needed: Coax (any type) Long enough to reach from xcvr to ground.
2 capacitors (non-polarized)

Solder a capacitor between the coax braid and the center conductor of the coax at each end of the coax. Radiation from:



Opinion on why this is a good ground:

What little radiation is emitted from ground lead is intercepted by the coax shield and fed back to the center conductor of the coax by the two capacitors, creating a dampening of the unwanted emissions. Not my idea, I think I read this in 73 Magazine about 10 to 12 years ago.

There is a GREAT brochure that has been produced by Mary Williams, AB6CZ and Walter Wilson, N6VYB. It lists points of contact and information about the various amateur radio emergency communication groups in the area. Send an SASE to Mary Williams, PO Box 5700, Balboa Island, CA 92662 for your copy!

VOLUNTEERS NEEDED!

Public Service Event

August 9, 10, 11

Heels and Wheels Carriage Event

Call Bob Teggel, KD6XO

(714) 531-0926

to sign up (1 day OK)....

1991 CLUB BOARD of DIRECTORS

President	Ken Konechy	W6HHC	541-6249
Vice President	Mike Abreu	K6KAA	832-8503
Secretary	Bruce Creager	KC6DLA	538-8259
Treasurer	Bill Freyfogle	N6VMS	964-9336
Activities	Tom Thomas	WA6PFA	771-2917
Membership	Bob Eckweiler	AF6C	639-5074
Public Relations	John Meacham	KJ6TK	842-4702
T.V.I. Chairman	Larry Beilin	K6VDP	557-7217
Member at Large	Frank Smith	WA6VKZ	454-2635
Member at Large	Chris Breller	KJ6ZH .. (213)	866-2077

CLUB APPOINTMENTS

Club Historian	Bob Evans	WB6IXN	543-9111
W6ZE Trustee.....	Bob Eckweiler	AF6C	639-5074
RF Editor	Nancy Bucher	N6XQR	537-8728
RF Printer	Jerry Dahlin	AA6BU .. (213)	527-2779
Refreshments	Cindy Hughes	KC6OPI	971-3448

DUES

Regular Member	\$12.00	Additional Family Members	6.00 each
Teenage Members (under 20) ..	6.00	Optional Club Badge	5.00

Dues for new members are prorated quarterly from January of each year. Family members must reside at the address of a Regular Member. One RF is sent per household.

Minutes of OCARC General Meeting 6/21/91

Meeting called to order by President Ken Konechy at 7:35 PM. Officers present were Ken-K6HHC, Mike-K6KAA, Bruce-KC6DLA, Bill-N6VMS, Tom-WA6PFA, Bob-AF6C, Larry-K6VDP, Frank-WA6VKZ and Chris-KJ6ZH. There were 52 members and guests present.

Program - President Ken Konechy, K6HHC, brought slides showing last years field day site, operators and activities.

Field Day - Field day chairman, Frank-WA6VKZ, discussed the progress made during this afternoons Field Day site layout/setup at the Tustin Marine Corps Air Station. Field day assignments, logging technique and team captains needs were reviewed.

Treasurer's Report - We have about \$1000 in checking and about \$1100 in savings.

Future Programs - July meeting program will be on "PACKET GOLD" with September program on "National Traffic Net".

ARRL Announcements from Alex, W6RE - 1) The FCC's proposed recommendations to the 1992 World Administrative Radio Conference were read. 2) The ARRL has petitioned the FCC for access by amateurs, on a secondary basis, to the 216 to 220 MHz band.

Good of the Club - Cindy, KC6OPI, passed the theory test for her Extra class license. Nancy, N6XQR, passed both her theory and code test for Extra. The club and Field Day activities were reported in the Tustin News and the "Juice" column of the Register. Dick Higgins, a new member, is looking for code practice tapes and a HT. Meeting was adjourned 8:45 PM.

Respectfully submitted, KC6DLA, Bruce Creager - Secretary

Terry, N7OYT, will be teaching theory and code for Novice and Codeless Technician through Tustin Community Services beginning in early October Tuesday and Thursday evenings. If you are interested in helping to teach, contact Terry at (714) 731-0249.

On the Nets - June, 1991

by Bob Evans, WB6IXN

6/5 15m phone net - A truly 'Ken & Bob' net, W6ZE/HHC checks in AF6C & IXN. COJ secures permission to set up fer FD on Fri. afternoon. And HHC will help VMS get the 20m beam ready. AF6C tells OPs that PFA is recovering frm minor surgery. And HHC looks forward to 'better days' wid the RVP!

6/5 2m phone net - W6ZE/IXN checks in AF6C, KAA, BPX, RE, RND, HHC, BGI, XQR, ZH, ESD, YZG, VDP, VMS, TK, WZO, TAM, QE, BEN, TAM, & QE...biggest check-in ever!! AF6C announces that Mel, KC6OIT, is now KM6BT..congrats, Mel! KAA requests lengths of rotator cable needed fer FD, & BPX waits fer the garlic to dry out as he has 'fun wid the faucets'! XQR alerts all to watch News Column in O.C. Register fer a FD announcement..Cut it out & save it! Nancy says Don, ONZ, needs grills grills fer FD! RE announces a severe RF blackout last Sat. And Alex recorded Newsline frm another source.. excellent as usual! RND watches Chicago beat the Lakers, and moves on wid 15m beam construction fer his FD excursion. El Presidente, HHC, announces FD plans are firming up, & that KK6QE wishes to organize a public demo, fer schools, etc., contacting orbiting Astronauts. BGI makes the 8th 'Bob' in the Club to check in on the net! Too bad, Bills, Jims & Johns! OPs welcome KB6BEN, Bill, in Whittier, to the net. And ZH, mike in one hand & a bag of groceries in the other, announces the purchase of a 600 W amplifier! YZG & XYL entertain guests frm Auckland, NZ. & IXN quizzes Lu abt seismic activity there. VDP needs loggers & OPs fer FD, built a couple of wire ants., & announces sporadic openings on 6m! VMS & HHC will get the 20m beam ready fer FD, & Bill works D2ACA, Soviets in Angola, on 15 & 20m CW. IXN apologizes to ESD fer missing him in the rotation! And Bob says the XYL is out of the hosp. & doing fine! ESD also confirms the Angola station on 14.025.7, CW, & tells IXN that the DX packet station is KK6BB on 145.680. TK has the publicity booth at FD, & IXN will take former FD Santa Ana plaque fer the display. WZO, Fried, announces a planned visit to the FD site, gives names of famous hams (Cardinal Mahoney, W6QYI), & reveals the secret of making Holy Water: Boil the hell out of it! TAM alerts IXN fer a call frm IBR concerning the commemoration FD certificate frm the City of Tustin.

6/6 15m CW net - Net is informal..no net control! IXN & RND discuss John's new homebrew 15m beam, which John will adjust fer low SWR tomorrow before elevating it fer a try on the air.

6/12 15m phone net - Business keeps HHC frm the net as AF6C & NGO discuss 15 ft. of Kei's 'injured' block wall, & Bob lays out 'RF' fer stapling. A hot transistor explodes in NG7D's face, but John escapes injury! IXN cavesdrops!

6/12 2m phone net - W6ZE/IXN checks in QE, BPX, KAA, RE, NG7D, ONZ & OPI, VPP, VDP, QW, PFA, VKZ, RND, XQR, & ATK. QE prepares to 'give away' his eldest son this weekend! And BPX is diggin' and hangin' garlic. KAA & VKZ 'duet' at Mike's QTH as Mike tells the absent ZH he has the printer, & VKZ picks up rotor cable & tells OPs everything 'A-OK' fer FD! RE & RND watch Lakers lose to the Bulls by 7 pts! Alex reports high solar

activity & IXN wonders abt effects of secondary radiation on the astronauts! RND tux RE fer FB Newsline tape, & NG7D gets solid solar noise on 40m, wid some QRP in the evenings. ONZ & OPI move to a new QTH in GG. Watch 'RF' fer new ADR. And Cindy, if I forget U agn, lash me wid a wet noodle thru the speaker! VPP mounts a new 'window' ant. on the auto as he prepares fer a 2 mo. fishing trip up north. And IXN hears a 'new one' as VDP gets a card frm an SWL (a UA0) asking fer S2! QW 'cruise ships' to Hawaii (Alaska & the Caribbean next)! Rolf enlightens OPs on the 'International room'(restroom) aboard busses: entering, ur 'Russian', inside, Eur-O-pean, & leaving, ur 'Finnished'! Hi..Hi! PFA has a hernia repair & is still recuperating..FD is high on his list! XQR prepares a list of needs fer FD and plans to make video tapes fer OPs who may wish to purchase a copy. ATK plays wid a BASIC program, & plans to attend FD in the evening.

6/13 15m CW net - Net informal. IXN & RND discuss erupting Mt. Pinatubo in the Phillipines, FD, and lousy bands!

6/19 2m phone net - W6ZE/IXN checks in BPX, XQR, AZ, RE, ONZ, VMS, VKZ, VDP, DLA, ZH, ZRB, ATK, PFA, TAM, & KAA. BPX & Blanche celebrate birthdays & graduations last Sun., as Wyatt spreads 20 bags of fertilizer on the 'back 40'! XQR/AE announces tapes of FD proceedings will available..Sign up at FD! Congrats on the update, Nancy! Nancy tells OPs to watch 'JUICE' column in the O.C. Register fer FD blurb! IXN needs a copy fer the Club history! A banner fer FD?! Ask VKZ abt this one! RE's XYL has extensive medical tests, & the 'aspirin' mechanics pronounce her 'fit as a fiddle'! Alex airs FCC WARC proposals & interesting Newsline tape. VMS, undaunted by gigantic solar flares, works KC6MR, E. Caroline Is., 15m CW. Bill also casually picks up 8R1J in Guiana, VK9NS, Jim, Norfolk Is., XX9TDM, Portugese Colony of Macao. ONZ calls fer volunteers to help wid dinner & breakfast at FD. And VDP dedicates tomorrow to finishing all preps. fer FD! DLA tux AF6C fer packet materials package. And ZH joins the 'big leagues' wid his new Father's Day present, the 600 W. amplifier! ATK will visit FD after work on Sat., & Kent is looking fer back issues of QST fer old radios! VPP helps PFA get ready fer FD fer Tech & Novice bands. VKZ's trailer will handle the business end of TAM's FD efforts, as Jane & Chris' will provide the 'Party Home'?! One connector, two connectors, three connectors, more..as KAA prepares the amplifier fer FD, & Mike tells OPs that he wins a prize at the Santa Maria Hamfest! Nancy, ZRB, doesn't receive her 'RF'!

6/26 15m phone net - Acting W6ZE/AF6C checks in NGO, NG7D, RND, & IXN. 15m phone dies in time fer the 'Ken-Kei & Bob' barby party Sat. eve. on FD! And NGO gets charged fer recycling..thot it was the other way around! And AF6C decides to return W9RND bk to CA, as Bob tells John of attempts to get NASA PR official's name. NG7D braves the 'hot winds of Vegas' & returns wid sparse earnings!

6/26 2m phone net - W6ZE/IXN checks in ZH & TAM, KAA, BPX, RE, RND, AF6C, ZRB, VMS, VDP, XQR, VKZ, & PFA. XQR picks up 5 orders fer the FD tape, & Nancy will add a copy

Continued on Page 4

On the Nets - May, 1991 (Continued)

to the Club history. ZH takes a day off as he & TAM recuperate from FD. Chris gets QSLs from A35KB, Tonga Is., & ZL9YL, Auckland Is. BPX has a FD clipping for IXN, & 'Arthur Itis' makes a visit to Wyatt's shoulder! KAA enjoys the 'shishkebobs', saki & the eyeball QSOs hosted by the 15m group Sat. eve. ARRL's WZO & WZN drop in for the festivities as XQR rushes WZN off to the YL 20m station for OP duties! While RE busily logs about 400 contacts on FD, Alex's apricot tree rewards him with ripe apricots all over the lawn! After VKZ instructs IXN how to use the computer log program, Bob hops from tent to tent logging where needed. RND hops, skips & jumps from FD site to FD site up in the high Sierra, winding up at Mammoth Lake & amassing over 1100+ points. AF6C wants IBM, Apple, or Commodore disks of station calls & sections by Club breakfast. Turn in your written log sheets, too! VKZ says we have 88 licensed Club OPs, 44 FD attendees, & 50 FD visitors! RE tells OPs that the prefix UR has been re-allocated to the Ukraine, & ES to Estonia! Ready for this one?..VKZ grounds Nancy's rig!..& XQR tnx BWZ & XYL for use of the motor home, & NGO for her FB ant. on FD. IXN & ZH enjoy VKZ's 'eeny-meeny-miny-mo' hangin' mikes for 2m, 220, 440, and 6m, in the motor home shack! PFA leaves his 'golden retriever' at home as Tom wishes FD was two days later when 10 m opened once more! Tom consoles himself with the arrival of a 10 m Italian QSL card from a contact dated 4 Nov 88! VMS relaxes from 20m FD activities as he ponders the 400 20m CW, 105 80m CW, & the 9 15m CW, contacts garnered by the 20m crew! We tnx Alex for the FB Newline tape, & leave all with this question: DID ANYONE DUBIOUSLY GARNER THE 'N6UC' AWARD?

6/27 15m CW net - Informal check-ins were: RND, XQR, & IXN. IXN & RND welcome Nancy to the CW net! XQR plans to be a regular OP on the net, after VKZ sent all of Nancy's Tennessee Valley Indians to ground! IXN reads Nancy using earphones, picking her out of the QRN. And RND acts as a relay between XQR & IXN.

*Electronic Times Ask for Michael Mercado, KC6VIC
170 Magnolia Avenue
Fountain Valley, CA 92708*

Phone: (714) 375-0388

Fax & Modem: (714) 375-0389

S/E Corner of Magnolia/Warner Avenues

At the 405 Freeway Sav-On Shopping Center

Easy Off & On - Both Directions

Free Laminating for Ham Licenses

Truck and R.V. Parking in Rear

The Only True Amateur Swap Shop

Consignment Sales....

Amateur Accessories at True Discount Pricing.

Special Orders

Custom Installation and Interference Specialists....

On-Site Marine....

Minutes of OCARC Board Meeting

July 6, 1991

Meeting called to order by President Ken Konechy at 8:45 AM. Officers present were Ken-W6HHC, Bruce-KC6DLA, Bill-N6VMS, Tom-WA6PFA, Bob-AF6C, Larry-K6VDP, Frank-WA6VKZ and Chris-KJ6ZH. There were 29 members and guests present.

Treasurer's Report - We have \$1091.91 in checking, and about \$1100 in savings and \$235 to be deposited.

Activities - A motion was made and passed to conduct another raffle for a Yaesu FT470 dual band HT. The raffle will be held after 450 tickets (exactly) have been sold.

Honorary Memberships - The board nominated Fried Heyn, ARRL Southwest Division Director, and Wayne Overbeck, Vice Director, for honorary membership to the Club. The nominations will be presented to the membership for approval at the July general meeting.

Field Day - Field Day was highly successful this year. The bands were a bit down; however this was our second best year for the total number of contacts. The results will be published in the "RF".

Lost and Found - Several items were lost during Field Day and a few were found. Please bring all found items to the July general meeting and try to find its owner.

Good of the Club - McDonalds contributed some supplies for Field Day. The Secretary was directed to send a letter of thanks to McDonalds for the supplies and also to the Tustin Air Station Base Commander for the use of the base for Field Day.

Sister Club - A letter was received from Ron Weaver, N6VO, asking if we would be interested in establishing a "Sister Club" relationship with CORA, a Tahitian Radio club. A motion was made and passed to pursue that relationship.

Club Stickers - Larry, K6VDP, suggested that the club investigate having stickers made of the club logo that members put on their own QSL card. Larry is to investigate the cost of having the stickers made. Meeting was adjourned 9:55 AM.

Respectfully submitted, KC6DLA, Bruce Creager - Secretary

Need Your Worked All States? See Lloyd!

I have been appointed HF Awards Manager for the West Coast Amateur Radio Club and the ARRL Special Service Club. As such, I am responsible for validating WAS (Worked All States) and 5 Band WAS applications in this area.

Those ARRL members seeking to have their QSL cards validated for WAS or 5 Band WAS can contact me for application forms and validation of their QSL cards. Their QSL cards will not have to be sent to ARRL unless requested by ARRL.

Respectfully submitted,
Lloyd Harwood, WB6ULU

Hawaii Beacons Turned on, Tuned, Tested and...

by Gordon West, WB6NOA

...ready to be received by West Coast VHFers running horizontal polarization, and the exciting interest to possibly establish some new records between the Mainland and the Big Island.

I have just returned from the beacon site, and a several days stay with Paul Lieb, KH6HME, the man behind the machines. We spent days on the slopes of Mauna Loa fine-tuning everything for maximum reception at the Mainland end of the circuit. And when the beacons are substituted for the 2-way transceivers that Paul puts in place, his reception of Mainland signals will be the best ever for this coming tropo summer season.

KH6HME BEACON CHARACTERISTICS

Location:	19 degrees, 35' 19" north; 155 degrees, 27' 10" west
Elevation:	8,200 feet on the side of Mauna Loa volcano
6-meter beacon:	50.061 MHz, 20 watts, dipole (remote location)
2-meter beacon:	144.170 MHz, 60 watts, pair 7-element (NBS) horizontal Yagis. CW ID at 20 wpm with long rise in tone on steady end key.
70-cm beacon:	432.075 MHz, 35 watts output, into pair 22-element beams horizontally polarized. CW ID at 13 wpm.
ATV beacon:	434.000 MHz on command (on command, alternates with CW beacon), 80 watts peak video output, into pair of 22 element K1FO beams. Video ID 3 changing graphics from Elektronik VDG-1 board.
23-cm beacon:	1296.0 MHz, 17 watts into 4 vertically stacked, 25-element, loop Yagis. CW ID at 18 wpm.
Liaison Frequency:	28.885 MHz, USB, 100 watts into full wave loop.

"We also have capabilities of working on 220 MHz, 900 MHz, plus 3 additional microwave bands to contact N6CA for some additional world records," comments Paul Lieb, KH6HME, the one-man show when the band opens in the summer to the Mainland. Paul's fantastic location on the side of Mauna Loa volcano is a straight shot over-the-water to all of the West Coast, from Mexico to Alaska. Hawaii and Mainland VHF/UHF operators appreciate the courtesy of Hawaii television Channel 9 for allowing Paul to operate the beacon equipment from their Channel 9 link site high atop the volcano.

"An active volcano eruption is taking place now just a few miles away, and last year the vibration was so fierce it knocked one of my transmitters right out of the shelf," smiles Lieb. He now has everything bolted down in case of another earthquake at the volcano site.

The beacons run 24 hours a day, and are constantly monitored by Lieb from his downtown office in Hilo. Paul runs his own company, and is available at almost any time to drop what he is doing and to make the long, windy, 1-hour drive from Hilo to the Mauna Loa volcano to set up his transceivers for 2-way contacts to the Mainland. "But until I get a phone call, I have no way of

knowing whether or not the beacon is being heard on the West Coast," adds Lieb. "Call anytime-- and if I'm not there, they will get a message to me," with his best phone number of (808) 959-9553. "It takes me 5 minutes maximum to load up the back of my wagon with my rigs, and in about an hour's time, you should all hear the beacons drop off the air instantly to be replaced by my voice calling CQ West Coast," chuckles Lieb.

July and August are the best months for expected tropospheric ducting between the Mainland and Hawaii.

But without a phone call, the Hawaii hams may have no idea that the band is open. "Sometimes we hear Mainland FM stations and TV audio, and sometimes we don't-- so that's no guarantee that the band is open," agrees KH6IAA (Al), KH6FOO (Russ), and KH6CC (Jack). These well-known call signs come on the air when the word gets out that the beacon is being heard on the Mainland. "But if you guys don't get on the phone and call, we have little idea that the band is open," adds Russ, KH6FOO. Russ and Paul agree that there may be some tell-tale signs of a band opening as seen in Hawaii-- high altitude wispy clouds, a high pressure system between Hawaii and California, and a gradual rise in background noise on the VHF and UHF bands.

"I can usually see a good band opening when I'm up at the repeater site--the clouds should be just below me, and the temperature a little bit warmer than on the way up the slopes," adds Lieb.

Without question, the stationary "Pacific high" is a good sign for a tropospheric band opening. Hurricanes down south may also contribute to the band opening, but neither Paul nor Russ feel that hurricanes are absolutely necessary for the band to pop open. And most recently, studies in Europe indicate the potential for a band opening 2 days after a steady pressure system begins to recede and the barometer begins to start down. (Good reading--Winter, 1991 issue of CQ's Communications Quarterly, Page 31 on)

So get set this summer for some band openings to Hawaii. The PC Electronics ATV system could bring pictures into a cable-ready television on Channels 55 through 60 with the TV hooked up to an outside antenna and aimed west. ATVers might want to monitor their local repeaters for a repeat-out of the 434 MHz input beacon from Hawaii. Satellite enthusiasts should go to horizontal polarization with their 432 antennas and aim them west for the 434 MHz beacon. And when the band really opens up, I can see ATVers scrambling to their roofs to switch from vertical to horizontal in order to see the picture coming in over a record-breaking distance.

So get set for some real excitement this summer, because Paul Lieb, KH6HME, and all the gang at Hawaii have everything in high gear to make this season one of the most active ones yet on VHF and UHF frequencies.

And we close this article with memory of the pioneering efforts of Silent Keys Bob Cook, W6PJA, and Bill Tice, W6NGN, who devoted their lives to see new records being made between Hawaii and the Mainland on VHF and UHF frequencies that no one ever dreamed would go so far. And indeed there may soon be more records to be made.

PACKET BBS DATABASE DEVOTED TO RADIO MODIFICATIONS

Passed along by Jim Roberts, N6XTJ

Date: 06 Jul 91 07:01
From: KJ6FY@KJ6FY
To: MODS@ALLUS
Subject: RADIO MODS DATABASE DOC 1/2
HOW TO USE THE RADIO MODIFICATION
DATABASE

The Radio Mods Database is being maintained by several bbs's around the country. You should send your mod file requests to the nearest available bbs server. To find your nearest server, see the accompanying bulletin which gives a list of mods servers.

The following format examples assume that KJ6FY bbs in Benicia, California is your nearest server. If it is not, use the appropriate bbs call sign.

To look for a mod, send the following:

```
SP REQFIL @ KJ6FY.#NOCAL.CA.USA
when asked for the subject title, enter: DD
modelnumber
for example, for TS430S, enter      DD
TS430S
```

IMPORTANT: MAKE SURE YOU SEND THE MESSAGE USING "SP" AND NOT "SB". ALSO BE SURE THE MESSAGE IS TO "REQFIL".

No message text required. DO NOT use dashes in the model number.

```
example:      SP   REQFIL   @
KJ6FY.#NOCAL.CA.USA.NA
subject: dd TS430S
```

the above example will return information stored on the TS-430S. Note: USE REQFIL (REQUEST FILE) TO GET A FILE. REQDIR IS NOT SUPPORTED DUE TO THE SIZE OF THE DIRECTORY LISTING.

If you have more than one request, you can use the FILEX server if the database server you are using supports it. (see server list)

USERS CAN NOW REQUEST MULTIPLE MOD FILES FROM THE RADIO MODS DATABASE WITH JUST ONE MESSAGE IF THE SERVER THEY ARE USING SUPPORTS FILEX. KJ6FY IN BENICIA, CA NOW SUPPORTS FILEX. SERVERS SUPPORTING FILEX ARE DENOTED IN THE LIST OF SHADOW SERVERS WHICH I DISTRIBUTE REGULARLY.

SUPPOSE YOU WISH TO DOWNLOAD 3 MOD FILES, TS440S.IDX, TS440S.1 AND TS440S.2. HERE IS WHAT YOU WOULD SEND:

```
SP FILEX @ KJ6FY.#NOCAL.CA.USA.NA
```

(OR ANOTHER MODS SERVER SUPPORTING FILEX) SUBJECT: leave blank

```
MESSAGE:
DD TS440S.IDX
DD TS440S.1
DD TS440S.2
(CONTROL-Z)
```

MOD FILES REQUESTED IN THIS MANNER WILL BE SENT TO YOU AS SEPARATE MESSAGES.

To get a listing of all mods in the system, check your local bbs or ask your sysop. Attention sysops: Radio mod database directories and info bulletins have a bid ending in .RMD if you wish to capture and file them.

To upload a message containing information on a mod:

```
SP KJ6FY @ KJ6FY.#NOCAL.CA.USA.NA
SUBJECT: (MODEL NUMBER..for example,
TS430S)
```

Message text will be placed into the database.
DISCLAIMER:
I ASSUME NO LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY CIRCUIT OR INFORMATION DESCRIBED HEREIN OR WITHIN THE RADIO MODS DATABASE NOR IS ANY RESPONSIBILITY ASSUMED FOR INACCURACIES. THESE MODS ARE A COMPILATION OF MOD BULLETINS SEEN AT THIS BBS AND THEIR SOURCES HAVE NOT BEEN VERIFIED. PERFORM THESE MODS AT YOUR OWN RISK.

Please send questions and comments to Ross KJ6FY @ KJ6FY.#NOCAL.CA.USA.NA (database coordinator)

```
Date: 06 Jul 91 07:02
From: KJ6FY@KJ6FY
To: MODS@ALLUS
Subject: RADIO MODS DATABASE DOC 2/2
```

HINTS ON USING THE RADIO MODS DATABASE

1. DONT use dashes in the model number when requesting a file.
2. Send FILE requests to REQFIL at the NEAREST AVAILABLE SERVER (see list of mods file servers in an accompanying bulletin) for example:
if KJ6FY BBS IN BENICIA, CA is your nearest server, send:
SP REQFIL @ KJ6FY.#NOCAL.CA.USA.NA
Message subject: DD TS430S

This will return a file on the TS430S if it is in the database.

3. Many radios have several mods on file. In an effort to keep the file size down to 2k or less, I have split these into a primary file and several sub files. Subfiles have a number for a file extension.
Example: IC02AT.1
Check the file directory to see if there are more mods on file for the radio in which you are interested.
4. If you are sending mods to the database, please limit file sizes to 2K or less even if you have to split files. Also, only send one mod per file.
5. Hardcopy mods will no longer be available from me due to time constraints. If you have a hardcopy mod that you would like to share, please send me your name and address and I will put a note in the database for interested parties to contact you directly.
6. I need help in identifying duplicate mods and other problems with the database. If you are aware of any, please let me know.
7. IMPORTANT: MAKE SURE YOU SEND THE MESSAGE USING "SP" AND NOT "SB". ALSO BE SURE THE MESSAGE IS TO "REQFIL".
8. Files ending with .IDX are index files. filenames in the .idx files show the filename extension for that particular mod. for example, if the TS440S.IDX index file shows "1. crossband repeat", the filename for the crossband repeat mod is in file TS440S.1. If the index shows "0. extended freq", that mod would be in the file called TS440S (note no file extension).
9. If you know of a mod which is not in the database, please send it to KJ6FY @ KJ6FY.

Thanks to all of you that have sent in mods. Please send your comments or questions to Ross Sagun, KJ6FY @ KJ6FY.#NOCAL.CA.USA.NA (database coordinator).

Will, WB6GDZ passes along the following landline BBSs
Dave's Ham BBS at
(714) 543-3926
"tons of good programs"
and
Code3 at
(714) 534-9196
(Police, Fire, Amateur and RACES)

EARTH QUAKE

When a noticeable earthquake occurs in any area, tune to the W6FXN repeater on 145.460 (-) MHz and inquire if anyone has felt an "event", and describe what was felt in your area. If reporting is already in progress, the Net Control station will be asking for "damage" or "felt" reports city-by-city. When calling in to provide a "felt" report, use your call suffix and city name only, as shown in this example:

"BVU Anaheim"

When recognized by the Net Control, please give your report quickly and sign with your callsign and location:

"Anaheim - horizontal east-west movement, no damage: N6BVU, Anaheim" or

"Anaheim - vertical, no direction, broken window, cracked plaster, some power lines down: N6BVU Anaheim"

If it is a major earthquake, the Net Control will frequently ask if there are any stations with damage reports, or distant stations not previously hear from. PLEASE STAND BY DURING THESE PERIODS OR UNTIL NORMAL REPORTING AGAIN RESUMES. Both your courtesy and your report may help save lives.

Please help the Net Control station by listening for weak stations. Advise the Net Control and relay if asked. If you get nervous, excited, or experience that wonderful feeling of total panic some of us feel, don't let that stop you from reporting; those feeling are normal. But, most important, remember to listen, and use your best judgement when reporting.

Although the Buzzard Peak Repeater System handles many types of communications, including space shuttle downlink, Red Cross reporting & handling of messages between hospitals and their personnel during telephone interruption, earthquake tones, and Radio Amateur Civil Emergency Services (RACES) nets for the Sheriff's Department, the earthquake Reporting Net (QRN) takes priority over all other types of traffic. During the QRN, any agency might make calls to their units for coordination or might try to contact someone they know would be monitoring the QRN. The primary purpose of the QRN is to establish the epicenter and surrounding affected areas of the event.

The Buzzard Peak Repeater System is battery-powered and should operate during electrical outages for a couple of days, depending on usage, unless the building collapses or burns down. Since this system is monitored by people even while sleeping to listen for automatic earthquake alarms on the repeater, quiet hours are voluntarily observed between 12 midnight and 0600 a.m., unless an earthquake occurs which will start the QRN for reporting.

IF YOU HEAR ON THE FREQUENCY:

A beeping high tone, it's a local quake of magnitude 3 or more.
A beeping low tone, it's a distant quake of magnitude of 3 or more.
Both tones together, it's at an unknown location, but locally felt.
A low steady tone is a rapid buildup of pressure: an upcoming event.

BEFORE SPEAKING, LISTEN FIRST!!

Evening nets on the W6FXN Buzzard Peak Repeater System are:
Monday at 7:30 local Disaster Communications Services (DCS) net

Wednesday at 8:00 local Space & Science News Information net
Wednesday at 10:30 local Seismic Precursor Network (SPN) net

ED NOTE: The above information appears on the back page of the 1991 January - April Repeater Location Guide compiled by Kevin Karamanos, WD6DIH, and Karl Pagel, N6BVU and permission was granted for reprinting it here.

**IF YOU APPRECIATE THESE SERVICES
BEING AVAILABLE TO YOU,
PLEASE CONSIDER SUPPORTING THEM
WITH A DONATION....**

**Make checks payable to: BPRA/SPN
Mail to: Buzzard Peak Repeater Assn.
PO Box 5064
Covina, CA 91723**

**IF YOU WOULD LIKE THE 75+ PAGE
INFORMATION PACKAGE....**

**Send a self-addressed 9" X 12" manila envelope
stamped with \$1.35 postage for 3rd class mailing
to: Keith Higgins, WA6RYL
SPN/FFIN
PO Box 306
Lakewood, CA 90714**

RADIO SCHOOL U

"U" FOR UNDER-ONE-ROOF

- No-Code Technician Class
- General Code Class
+ Theory Review
- Advanced Theory Class

OCTOBER 11, 12, 13

**Airporter Hotel, Orange County
Bring your friends
to no-code class!**

Attend an upgrade class at the SAME Hotel
on the SAME Weekend!
3 Classes in 3 Classrooms
Next classes: November 8, 9, 10 LAX
December 13, 14, 15 Orange County

**Gordon West Radio School, Inc.
INFO LINE (714) 434-0666
REGISTER (714) 549-5000**

OCARC Activities Chairman / A Native Californian

by "Tom" Elmer Thomas

Born in Raymond Calif., a small town in the foothills of the Sierra Nevada Mountains. After 4 years I hit the road for greener pastures in the Modesto, California area. Pastures were not that green so at 9 years I moved to Orange County. I have lived in Santa Ana, Costa Mesa, Garden Grove, USN (San. Diego, Ca., Michigan City, Ind., Texas A & M, San Francisco, Ca., New Guinea, Philippines) Newport Beach, Hollywood, Buena Park, Fullerton, Placentia and Orange.

My interest in electronics started when I was in the 8th grade. I was given an old Atwater Kent radio, you remember, the one with the horn type speaker (hi), repaired some broken leads and attached a variety of batteries and it worked. After that my interest increased rapidly. At 19 I joined the navy (WWII) and qualified for radio technician school. After school I spent 2 years in the Pacific on an LST vessel and Island naval bases maintaining radar and radio transmitters and receivers.

On discharge from the navy I returned to Orange County where I worked for an RCA audio visual (movie) distributor installing their products. Four years later I left for school. During school spare time I operated a television repair shop and passed the first class FCC Radio Telephone Operator License. With school behind me and the new license in hand I again looked for greener pastures.

I took employment at Chevron Oil Field Research Co. in their electronic research laboratory in La Habra. That job lasted from 1951 to my retirement in 1984. During my time at Chevron I worked with several hams and with their encouragement, in early 1961 I became WA6PFA (TECH). I built (home brewed) a 200 watt AM 5 meter transmitter and worked about 40 states then moved to RTTY, 2 meters and ATV, giving in to the TVI (ch 2 TV) complaints.

I was on a company trip to Texas in Sept. 1961 when hurricane CARLA threatened the Texas coast. I had a home brewed 15 watt 6 meter transceiver with me and was asked by the local hams to operate the local Red Cross civil defense emergency station.

I spent 23 hours operating during the emergency. I enjoy using ham radio for public service.

I had an interesting QSO with a ham in the suburbs of New Orleans during a business trip to that area. I was operating on 6 meters from my motel room. The ham I was talking to invited me over for an eyeball QSO and when I received directions to his QTH I found I could see his shack from my motel room window. He lived next door to the motel and his shack was an unused bathroom. Guess where he sat to talk on the radio?

I have always enjoyed building my own equipment when time permitted. Unfortunately now that time permits the new technologies are not so easy to apply in the home workshop. Since my retirement, I have spent much of my time at ham radio. I have worked 130 plus countries with my Kenwood TS430 S on 10 meters SSB. I operate on 2 meters, 70 cm and 10 meter voice and 10 meter and 2 meter packet radio. Last but not least 70 cm amateur television (mobile or fixed).

I enjoy working public service events and am a member of the City of Orange Amateur Radio (COAR) Races. I am sorry I waited so long to become a ham. I hope the new hams of today have as much future enjoyment in their new hobby as I have had in the past.

**Fast Track Radio School
Presents
Weekend No Code
Technician Classes
in Orange County
September 13, 14, 15
Pre Registration is A MUST!
You will receive study material
by mail.
For more information contact:
Bob Gregg, AB6CH
(714) 892-3728**

FOR SALE

Want both HF and 6 meters? Then go for this Kenwood equipment: TS680S xcvr (100 w HF w/6m), SP430 spkr, PS430 pwr sply, AT250 ant tuner, MC60A desk mike, & IF10C & IF232C computer interface; over \$2,000 cost but all available for \$1,595 OBO from

Jim Robertson, KK6NK.
Call (714) 540-3670 eve
or (714) 251-7234 days

Great setup but used
less than 40 hours.

FOR SALE

Kenwood 731A mobile
Dual Band 2m - 450
\$550

Walt Rogers, KC6LTD
Call (714) 739-4499 eve
or (213) 413-2121 days

FOR SALE

Icom 02AT
2m handheld
5w & 2.5w batteries,
quick charger and
accessories
\$250

Skipper, KC6WJJ
Call (714) 639-3443
also

WANTED
Code practice programs that will run on an Apple GS

FIELD DAY SUMMARY
FOR
THE ORANGE COUNTY AMATEUR RADIO CLUB - W6ZE

BY: Ken / W6HHC & Bob / AF6C

YEAR	80M		75M		40M		20M		17M		15M		12M		10M		6M		NOVICE (CW)					TOTAL (POINTS)										
	CW	SSB	CW	SSB	CW	SSB	CW	SSB	SSB	SSB	CW	SSB	CW	SSB	SSB	CW	SSB	PHN	CW	PHN	2M	2M	PHN	220	PHN	80	40	15	10	QSO's	/	(POINTS)		
1966	10	224	62	396	93	328	-	-	-	-	24	430	-	-	0	68	0	0	0	0	0	145	-	0	0	0	0	0	0	0	0	1,780	/	3,938
1969	0	98	0	50	0	375	-	-	-	0	301	-	-	0	0	0	0	0	0	0	169	-	0	0	0	0	0	0	0	0	993	/	1,986	
1970	0	272	0	0	0	531	-	-	-	0	426	-	-	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	1,229	/	2,458		
1971	0	274	0	106	0	530	-	-	-	0	136	-	-	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	1,046	/	2,092		
1972	0	50	0	350	0	521	-	-	-	0	530	-	-	0	0	0	0	0	0	0	94	-	0	0	0	0	0	0	0	1,545	/	3,090		
1973	90	226	0	452	0	932	-	-	-	0	273	-	-	0	0	0	0	0	0	0	46	-	0	0	0	0	0	0	0	2,019	/	4,218		
1974	0	161	0	333	0	630	-	-	-	0	342	-	-	0	110	0	0	0	0	0	0	-	0	0	0	6	6	12	0	1,600	/	3,248		
1975	80	120	154	274	40	863	-	-	-	140	259	-	-	0	123	0	0	0	0	0	0	-	0	0	0	0	0	0	0	2,053	/	4,934		
1976	99	254	152	487	21	600	-	-	-	64	210	-	-	2	54	0	0	0	0	0	2	-	0	0	0	0	0	0	0	1,945	/	4,566		
1977	25	243	163	193	0	643	-	-	-	47	496	-	-	0	309	0	4	234	-	-	0	-	0	19	34	4	0	0	0	2,510	/	5,812		
1978	14	196	242	170	30	981	-	-	-	50	558	-	-	0	145	0	1	164	-	-	0	-	2	4	7	13	0	0	0	2,600	/	5,926		
1979	0	195	198	92	42	773	-	-	-	0	737	-	-	0	95	0	2	124	-	-	0	-	0	0	0	0	0	0	0	2,266	/	5,016		
1980	20	149	205	235	471	318	-	-	-	52	1,025	-	-	0	226	12	0	100	-	-	0	-	0	0	0	0	0	0	0	2,849	/	7,194		
1981	0	167	200	265	60	699	-	-	-	77	717	-	-	0	105	0	0	197	-	-	0	-	0	0	0	0	0	0	0	2,487	/	5,648		
1982	0	105	49	238	40	352	-	-	-	0	515	-	-	0	72	0	0	155	-	-	0	-	0	10	19	0	0	0	0	1,582	/	3,400		
1983	3	93	200	0	0	776	-	-	-	0	995	-	-	0	43	18	0	16	-	-	0	-	0	0	0	0	0	0	0	2,145	/	4,696		
1984	0	0	310	0	32	196	-	-	-	0	350	-	-	0	0	0	0	0	-	-	0	-	18	3	32	0	0	0	0	941	/	2,672		
1985	81	0	311	91	35	662	-	-	-	75	0	-	-	0	0	0	0	22	-	-	0	-	4	4	3	0	0	0	0	1,288	/	3,602		
1986	0	46	219	78	0	488	-	-	-	0	45	10	0	0	0	0	0	82	0	-	0	-	0	0	0	0	0	0	0	968	/	2,374		
1987	22	0	0	39	0	708	-	-	-	0	18	1	0	0	0	1	0	51	5	-	0	-	0	0	0	0	0	0	0	962	/	2,202		
1988	127	0	66	75	2	369	-	-	-	0	570	0	0	0	81	0	0	32	14	-	0	-	0	27	0	144	0	0	0	1,497	/	3,726		
1989	30	0	98	5	0	906	-	-	-	21	172	0	0	238	3	0	121	18	24	9	1	0	0	0	0	0	0	0	0	1,646	/	3,590		
1990	0	0	70	144	0	370	-	-	-	0	747	0	0	131	39	0	114	2	14	26	0	0	0	0	0	0	0	0	0	1,657	/	3,454		
1991	105	308	182	182	400	623	23	23	23	9	463	0	0	104	4	0	141	48	23	11	0	0	0	0	0	0	0	0	0	2,626	/	6,740		

Note: These are raw contacts taken directly from the log sheets. Adjustments have not been made for duplicate contacts, and bonus points have not been added yet. Final scores appear in QST in the fall.

CLUB FUNCTIONS

MONTHLY MEETING: 3rd Friday of each month, 7:30PM at REPUBLIC FEDERAL SAVINGS BANK
July 19th 2400 E. Seventeenth Street, Santa Ana, CA
First building west of the 55 Freeway on Seventeenth St.
August 16th Next to the Denny's Restaurant (see below) on the South side of the street.
September 20th NEW LOCATION STARTED WITH THE APRIL, 1991 MEETING

CLUB BREAKFAST: 1st Saturday of each month, 8:00AM at DENNY'S Resturant
August 3rd 2314 E. Seventeenth Street Santa Ana, CA (714) 543-0872
September 7th (Second bldg. west of the 55 Freeway)

CLUB NETS

BAND	MODE	DAY	LOCAL TIME	FREQ MHz	SPLIT	PL	OPERATOR
2 Meters	FM	Wed	2030 hrs.	146.550	smplx	na	WB6IXN
15 Meters	SSB	Wed	2000 hrs.	21.375*	smplx	na	W6HHC
15 Meters	CW	Thu	2000 hrs.	21.175*	smplx	na	?????

(Listen for W6ZE, net control) *Plus or minus QRM

ARES DISTRICT NETS

2 Meters	FM	Mon	1900 hrs.	145.220	-600	1A	N6HQI 1
2 Meters	FM	Mon	~1915 hrs.	145.340	-600	4Z	K6KAA 2
2 Meters	FM	Mon	1930 hrs.	noted	smplx	na	noted 3

1 - ARES Info net.
2 - ARES District 3 net starts after info net is completed (Usually about 1915 hrs).
3 - City Nets: Orange - 146.535 WB6FCP; Tustin - 146.505 KK6QE; Santa Ana - 147.585 W6HHC

ORANGE COUNTY AMATEUR RADIO CLUB, INC.
P.O. Box 3454
TUSTIN, CA 92681

First Class Mail

*Time-Dated Material.
Please Rush!!*