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ORANGE COUNTY AMATEUR RADIO CLUB

VOL. XXXV111 NO. 6 P.O. BOX 3454, TUSTIN, CA. 91781 JUNE 1997

The Prez Sez:

Field Day (JUNE 28th and 29th)

How time flies. Field day (FD) is once again just over a month away. Since it begins the day after the meeting, there will be some special activities on the meeting afternoon. Before the meeting many club members are planning on arriving at the Field Day site in the early afternoon to begin setting up the antennas, power cables and anything else that can be done early. Then it will be on to the club meeting; I have no idea what our Vice President, is planning for the meeting program, but I am sure it will have a Field Day theme.

Field Day is an important event for the club. Through tough and good times, tough and good band conditions, the club has allway's performed admirably, scoring respectfully in whatever class we're operating. But the event is more than getting a good score. It is a chance to hone our emergency skills, and learn what equipment, supplies and spares are needed to conduct an emergency operation in a large scale. Field Day is also a chance to promote new members and make new friends among our existing members.

Program for June

FIELD DAY IS JUNE 28th and 29th. At the June meeting we will take a look at FIELD DAYS PAST. If you have pictures, slides, or home video of field day you would like to share bring them along. We will get in as many as we can. We will also discuss the club's field day plans for this year. SEE YOU THERE!!

1997 Board of Directors

President.....	Frank Smith	WA6VKZ	838-3180
Vice President.....	Art Sheldon	AD6B	997-3735
Secretary.....	Jim Winn	KE6UCH	731-2732
Treasurer.....	Ken Konechy	W6HHC	744-0217
Activities.....	Art Dillon	KE6WOX	997-2078
Membership.....	Bob Buss	KD6BWH	534-2995
Public Relations.....	Larry Beilin	K6VDP	557-7217
Tech Committee.....	Larry Hoffman	K6LDC	636-4345
Member at Large.....	Bob Eckweiler	AF6C	639-5074
Member at Large.....	Bob Tegel	KD6XO	531-0926

CLUB APPOINTMENTS

Club Historian.....	Bob Evans	WB6IXN	543-9111
W6ZE Trustee.....	Bob Eckweiler	AF6C	639-5074
RF Editor.....	Bud Barkhurst	WA6VPP	774-6361
Refreshments			

DUES

Regular Members	\$15.00	Additional Members	\$7.50 each
Teenage Members	\$ 6.00	Optional Club Badge	\$5.00 each

Dues for new members are pro-rated quarterly from January 1st each year. Family members must reside at the address of a regular member. Only one RF is sent per household.

There's a FIELD DAY in your future!!!

Save the Dates....June 27, 28 & 29, 1997

with **W6ZE**



According to the Prez., Frank, WA6VKZ, we again have permission to use the Marine Corps. helicopter station. This is where it has been the past few years and it is an excellent site. The customary partial pot-luck dinner is scheduled and a request is made that we participants in field day bring the following...



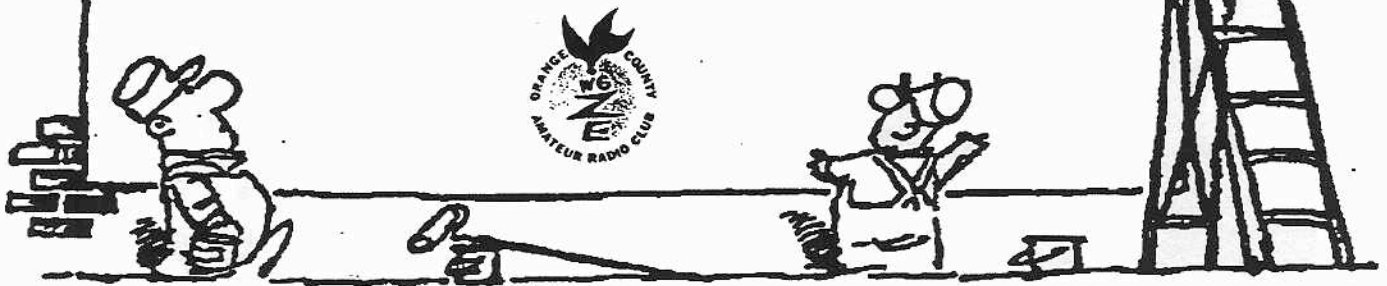
**Look
what's
cookin'...**

If your last name begins with letters A through M, please bring a *dessert* dish to feed at least 6 persons.

If your last name begins with letters N through Z, please bring a *salad* dish to feed at least 6 persons.

**We're Gonna Need Set-up Help
on Friday the 27th. Please contact
Larry K6VDP, Larry K6LDC or
Frank WA6VKZ and do what Mr.
Clinton Suggests.....**

Volunteer!





The W6ZE Second Semi-Annual "Not so DX-Pedition"

It was decided at the May club meeting that Larry, K6LDC and Art, KE6WOX will again host the "Semi-Annual Not so DX-pedition." The last event was held by the two at El Mirage Dry Lake in northeastern Los Angeles County.



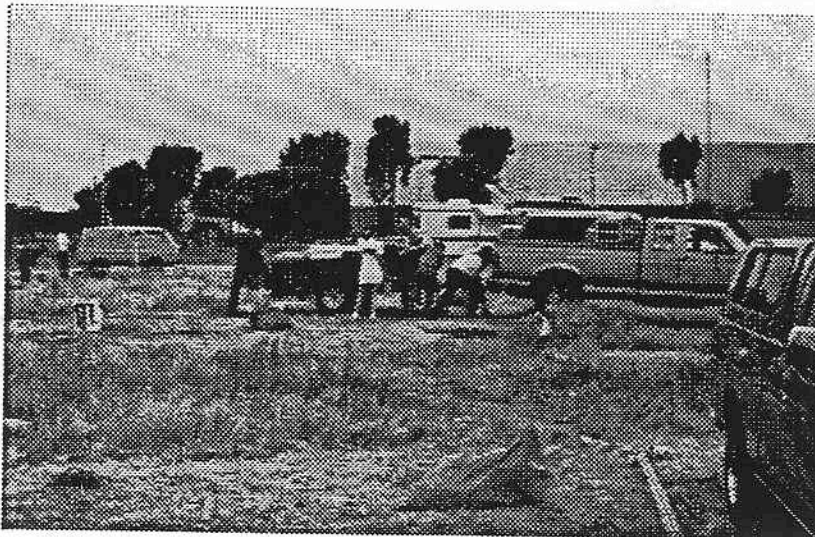
According to both Art and Larry, it was extremely rewarding as they had a lot of fun experimenting with all wire antennas in a very noise free environment, camping out in the desert field day style. "We worked some good DX."



The dates set aside are **October 10th, 11th and 12th**. Most will arrive on the evening of the 11th (Friday) or the morning of the 12th (Saturday).

Keep these dates **FREE** and plan on having a lot of fun, including a campfire. Watch coming editions of the "RF" for more information.

Art, KE6WOX, on top of LDC's motorhome setting up the inverted V during last April's Not so DX-pedition.



Field Day June 1996

NETNEWS
by WB6IXN

5/7 15m Phone Net - W6ZE/AF6C checks in AD6B, WOX, NGO, IXN, HHC, VKZ, RE, & LDC. Gud check-in, OPs! AD6B says the FD site at the Marine Helicopter Station in Santa Ana has been approved. AF6C & AD6B discuss checking out old post holes frm last year's FD. WOX notices a crew cutting weeds at the FD site, and all OPs hope that NGO is feeling better, as Kei plans to go to 'the cutting board' middle of next week! WOX gets a slight increase in auto insurance for the remainder of the year, after Art purchases the harmonic a VW. IXN & brother, Lee, buy a new washer & dryer fer the QTH, and IXN picks his first ripe tomato today! \$450 later, HHC has the 'konked out', leaking water heater problem solved, along with refurbishing & refilling the swimming pool this morning. VKZ gives HHC & IXN gud sig rpts, and Frank tells AD6B he has a couple of Club programs 'on tap' fer him. And Frank gets the old truck painted white in preparation for converting it to an amateur radio hobby vehicle...PS! VKZ says tomatoes only turn red at night! The entire country of Mexico celebrates RE's 86th BD...Alex was born on Cinco de Mayo! RE reads an ARRL Bulletin which says that FCC wants to raise vanity call-signs frm \$30 to \$50! Prof. LDC gets home early frm end-of-semester class tonite, and Larry tells OPs he works a C21 in Micronesia on 15m.

5/7 2m Phone Net - W6ZE/IXN checks in VFC, WOX, RE, QW, NG7D, AD6B, LDC, TWA, NAH, VDP, & KD6JBL. NAH airs Newsline, which is abt 75% readable frm white noise, fading sigs, & QRM! IXN, NG7D, QW, AD6B, TWA, & VDP all note a difference in Newsline reception...All others hear Newsline Q5! OPs tnx NAH fer airing Newsline. VFC fights dust frm street re-surfacing at the QTH, and LDC gets his freshly washed auto baptized wid mud on a recent visit to VFC's QTH! And Dennis tells OPs there was a 6m opening frm 9 AM to 5 PM into KS, CO, NM, WA, OR, and Mont. yesterday. WOX says the harmonic's VW needs front tires and a brake light. RE has sum white noise on Newsline reception, & NG7D's mom was also born on Cinco de Mayo. And John will soon be moving to his new 'independent living' apartment. QW picks up tax returns tomorrow, and plans to leave fer the new QTH site in Spokane soon. Rolf will try contacting OPs on the 15m Net at some future date. Rolf's XYL will wind up remaining business here. AD6B, along wid IXN, experiences sum QRM on Newsline, and LDC wishes VDP & VFC 'bon voyage' and a gud time at the Dayton Hamvention! And Larry tells OPs abt working C21RK on Nauru Is., a ZP5 in Paraguay, and a VK4, using a 40m dipole on 15m! TWA & IXN discuss their tomato vines, and Charles says he experienced weak sigs & sum noise on Newsline. VDP & VFC will be gone 2 weeks to the Dayton Hamvention, and Larry, once rid of his cats, has now picked up three more strays!...(now for more cat food!!) Jerry, KD6JBL, frm Fountain Valley, checks in & asks OPs abt the Club Net.

5/14 15m Phone Net - W6ZE/AF6C checks in LDC, RND, AD6B, IXN, HHC, WOX, and RE. AF6C gives OPs a gud report on NGO's major surgery, and Kei is doing well in Intensive Care! LDC tells OPs to check out a

PIC-based digital freq. display on pp. 36 & 37 in the May issue of QST. RND says pain drugs used after his surgery gave him hallucinations! And John says 40m had pipeline openings this afternoon, and RND will try 40m agn after Net to see if gud band condx. still exist! AD6B & ZE discuss a Club program fer Sept. meeting, and Art asks LDC to identify his RK21 contact. AD6B announces a `show & tell' program fer Club meeting Fri. eve. IXN finally tells AF6C a joke he hasn't previously heard! And IXN will take the Club History to June meeting. WOX says OPs are needed to man the Amateur Radio Booth at the Orange County Fair...Call KB6CMO at (714) 525-4618 if interested. HHC upgrades the motherboard in the home computer, but wipes out the `mouse' in the process! RE announces a Shuttle launch fer tomorrow morning, wid plans fer a MIR docking, & sunspot numbers are improving, OPs!

5/14 2m Phone Net - W6ZE/IXN checks in AD6B, NG7D, WOX, RE, RND, QW, ZH, JBL, BWH, & UBK. AD6B says FD site has not been mowed, and, more asphalt has been dumped in the area! 2 previous postholes still have stakes in them. And Art tells OPs to read the article `Up in the Attic' in World Radio! NG7D, on an Alinco HT, tells OPs he's making his move to independent living in his new apartment in a couple of weeks! WOX's son is on a science outing in the San Bernardino Mts., and Art says to contact Gene Thorpe (info above) if interested in working in the Amateur Radio Booth at the OC Fair. RE gives particulars on the STS 84 launch tomorrow morning, and Alex congrats. NG7D on his move to the new QTH! BWH airs an interesting Newslines, and Bob says no mail concerning the FD site has arrived! AD6B & ZH then give updated info. on the FD site, and Art will finalize the details! ZH says Jane is in Hogue Memorial Hosp. fer tests! (Rm 809). RND will be out of town, missing Friday's Club meeting, and John constructs a new FD ant., held together wid thumbscrews & wingnuts! UBK, busy wid tool & dye work, spends time keeping the 2 1/2 yr old harmonic frm tearing up house & home! QW, checking in fer the last time, leaves permanently fer Spokane Monday morning...See you on 15m, Rolf! JBL & IXN discuss old, abandoned gold, silver, etc. mines. Many entrances to these mines have been closed by the State!...They are a danger to the public!

5/21 15m Phone Net - W6ZE/AF6C checks in AD6B, RND, HHC, IXN, NGO, WOX, and VKZ. AF6C announces that Bob Chase, N7AZ, keeper of the Club FD trailer, etc., has become a Silent Key! VDP, PFA, & VKZ represented the Club at a memorial service for Bob...We'll miss your excellent CW fist at FD, Bob! And AF6C announces that NGO, Kei, is home and doing well...and behold!...NGO's check-in voice is heard!! Kei says it's hard to walk, and he can't bend over yet, as NGO thinks of all the chores piling up while he is recuperating! RND, using his FD rig tonite, tells OPs abt his recent visit to the harmonics in Utah, wid an interesting side trip to the Ontario Silver Mine near Park City. HHC relaxes now that the upgraded computer is up & working. Ken tells OPs abt a huge open pit copper mine in Utah. IXN's tomatoes are ripening fast, and being distributed among neighbors. WOX helps his son wid the metric system homework, and attends his daughter's graduation. VKZ asks RND to give him a landline, and Frank says we need to be thinking abt a new location to

store the FD equipment! AD6B discusses gold mining wid AF6C & HHC. And Art says that the FD site business shud be straightened out by next Mon. or Tues., and insurance coverage has also been completed.

5/21 2m Phone Net - W6ZE/IXN checks in AD6B, LDC/m, W6RE, RND, WOX, BWH, & UBK. IXN & OPs enjoyed last Club meeting program, and pass cudos along to AD6B and VKZ! BWH airs Newsline...A New Jersey RC takes a hard line on ARRL's re-structuring of amateur radio plans. And BWH says we now hve a Certificate of Insurance! IXN announces that N7AZ becomes a Silent Key, and LDC offers condolences. Then Larry tells us abt a vintage '59 El Camino completely burned on the Freeway! LDC enters the hosp. Fri. to have his `snorer' repaired! `Sparks' Dillon, WOX, discovers by experiment the voltage and current nodes along his loaded ant!!...Loading beautifully on 10 & 15m, the antenna refuses to load on 20 & 10m! RE says that if you want to procure an industry's 800 number, call 1-800-555-1212! And frm an ARRL WARC 97 Bulletin, Alex says the Little Leo people, and the Earth Exploration Satellite Service are still trying to procure RF spectrum! IXN questions RND abt upcoming gigs, and, the Ontario Silver Mine, where the newspaper magnate, Wm. Hearst, made his fortune! Now RND will get the FD generator ready to go. UBK runs the dual band mobile rig off gel cells used as electric starter batteries fer Briggs & Stratton engines. He buys the cells frm All Electronics Corp. in Van Nuys fer \$28.50...ph:1-800-826-5432, if interested.

5/28 15m Phone Net - W6ZE/AF6C checks in LDC, VDP, RND, NGO, HHC, WOX, IXN, VFC, & AD6B. Nice check-in, OPs! LDC hasn't `blown his nose' since last Thursday...He's afraid he'll break the stitches frm the sleep apnia operation! Meantime, Larry picks up a 4 element 6m beam, says HHC & WOX hve weak sigs, and discusses a new FD site wid AF6C. VDP says we need another gud CW OP to replace Silent Key Bob Chase on 20m at FD! And Larry uses the new DX70TH Alinco rig, picked up at the Dayton Hamvention, on the Net tonite! RND will FD alone this year wid his 33 ft. pole ant. operating on 80, 40, and 20m. IXN suggests that he stay away from the Harper & Calico faults in the Barstow area! NGO gets the stitches out, kicks back, rests, & listens to the Net. HHC gives the pool a gud workout during the heat wave. IXN enjoys NGO's familiar voice bk on the Net after surgery, and Bob can't hear WOX in the QRN this eve!...sounded like Art was talking thru rotating fan blades! IXN & AF6C discuss recent swarms of EQs in the Barstow area, and VFC uses the new Yaesu FT-920 rig on Net tonite! Both VDP & VFC have gud sigs & gud audio wid the new rigs! IXN loses AD6B in the QRN! Near Net's end, RND once agn develops an audio distortion, undoubtedly a problem that appears after the rig gets hot!

5/28 2m Phone Net - W6ZE/IXN checks in VFC, WOX, LDC, VDP, RND, FZE, NG7D, BWH, UBK, & TWA. VFC, wid the new rig on 6m, hears TX, OK, AZ, NV, PA, & ME. Just home frm the Dayton Hamvention, Dennis now prepares the RV fer a trip to the midwest! WOX quizzes VFC abt the Hamvention, and Art says 10m was open into WA & MT. Now WOX needs to install a bleeder resistor on his homebrew power supply. BWH airs Newsline, as OPs anxiously await WARC news abt band allocations! VDP tells LDC to tune his 6m ant. arnd 51 mH fer gud all-band 6m performance. And LDC quizzes OPs abt a gud CD ROM Callbook. VDP,

along with VFC, details their Hamvention trip thru various states; meeting with AB6CH, Bob Gregg, from Electronic Times, and the give-away of over \$100,000 in prizes! Larry was surprised to see Chrysler & GM at the Hamvention talking about radio installations in autos. RND works the CQ worldwide CW Contest last weekend, and John thanks BWH for Newsline. FZE, working on his Eagle Scout project, must repaint safety lines at Lampson Elementary School. NG7D & roommate are living in their new apartment. John works us from a HT with whip ant., as John looks for a refrigerator, and finally gets an errant shower valve repaired! UBK nurses a sick harmonic last weekend, and TWA, repainting the QTH & getting rid of un-needed household goods, shares IXN's luck with the green leaf hoppers and other 'lil monsters on the tomato vines!

SOLVING INTERFERENCE PROBLEMS

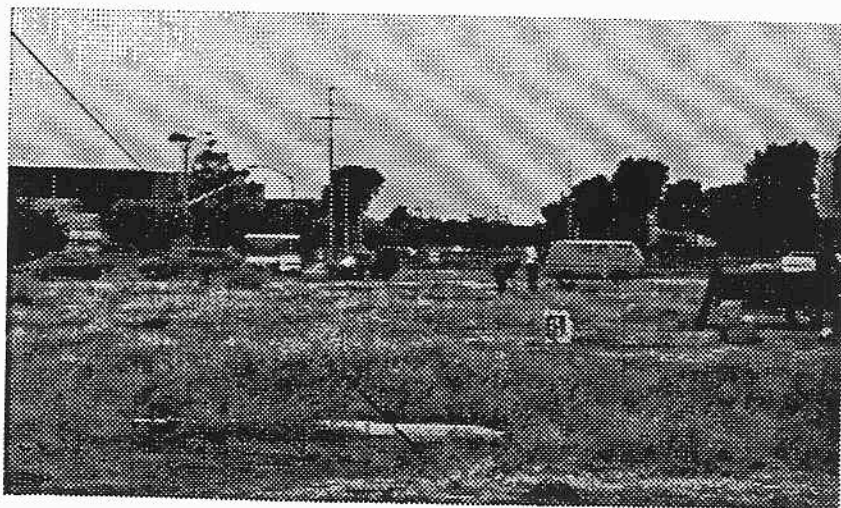
RFI PROBLEMS: Whether you are having problems with interference from or to electrical/electronic devices, the Technical Coordinator in your section or one of his assistants (Technical Specialists) may be able to help. Remember, if you are dealing with a neighbor, tact and understanding will go a long way in getting cooperation. In addition, you may find it helpful to purchase the ARRL book, Radio Frequency Interference: How To Find It And Fix It. Also, a free pamphlet for the consumer is available from HQ, "What to do if you have an electronic interference problem."

REPEATER-TO-REPEATER QRM: These kinds of problems are best worked out between the repeater groups involved. While it is not illegal to have an uncoordinated repeater, the FCC rules give its trustees the primary responsibility for resolving any interference to coordinated repeaters. Each local area has long-established coordination bodies that volunteer their time and effort. In Arizona, the ARCA Frequency Committee is headed by W7HSG. In Southern California, there are three groups: the Two-Meter Area Spectrum Management Association (TASMA) headed by AB6FC, the 220MHz Spectrum Management Association (220SMA) headed by K6IYK, and the Southern California Repeater and Remote Base Association (SCRRBA) headed by W6QC. The groups listed above are the only ones recognized in the SW Division by the ARRL.

INTENTIONAL INTERFERENCE: The ARRL Official Observers (OO), while mainly concerned with unintentional violations, are part of the Volunteer Monitor Program (VOLMON) which includes Local Interference Committees (LIC). The LICs are an important part of the Amateur Auxiliary to the FCC. Most LICs are formed locally on a case-to-case basis headed by an OO. The Auxiliary located violators using FCC-approved radio direction finding (RDF) procedures and gathers evidence in a manner that facilitates prosecution when required. In addition to the national agreement between the ARRL and the FCC, most of our local sections have formal working agreements with their local FCC offices.

When encountering jamming NEVER REACT to it on the air. With the exception of turning off a repeater, deliberate interference and obscenity should be completely ignored. If the problem is a serious ongoing problem, make a log and report it to your Section Manager (see page 12 of QST). Please DO NOT CONTACT THE FCC yourself. The less we burden the FCC, the more effective action they will give when we have a well documented case to present.

NON-AMATEUR INTRUSION: The volunteer group that deals with non-amateur stations that cause harmful interference within our bands is under the ARRL Monitoring System. The appropriate FCC monitoring facilities are notified of the major cases. After analysis, many of the most important cases are submitted to the FCC Treaty Branch.



**Field
Day
June
1996**

MINIPROP PLUS SHORT-PATH PREDICTIONS 06-27-1997 Path Length: 3918 km
 SSN: 15.8 Flux: 73.0 Radiation Angle: 11 deg for Minimum No. of F Hops: 2
 TERMINAL A: 34.00 N 118.00 W KJ6ZH Bearing to B: 65.8 deg
 TERMINAL B: 40.73 N 74.00 W New York City, NY Bearing to A: 273.4 deg
 Terminal A Sunrise/Set: 1247/0303 UTC Terminal B Sunrise/Set: 0932/0026 UTC

K: 1

		SIGNAL LEVELS in dB ABOVE 0.5 uV				
UTC	MUF	3.6 MHz	7.1 MHz	14.2 MHz	21.2 MHz	28.5 MHz
0000	14.7		21 A	42 B		
0030	14.7		24 A	43 B		
0100	14.6		28 A	44 B		
0130	14.5	6 A	31 A	45 B		
0200	15.2	21 A	34 A	46 B		
0230	15.1	33 A	42 A	46 B	45 D	
0300	15.1	40 A	44 A	47 B		
0330	15.0	45 A	45 A	47 B		
0400	14.8	46 A	46 A	48 B		
0430	14.7	51 A	46 A	48 B		
0500	14.3	51 A	46 A	48 B		
0530	13.9	51 A	46 A	48 C		
0600	13.7	51 A	46 A	48 C		
0630	13.4	51 A	46 A	48 C		
0700	13.1	51 A	46 A	48 D		
0730	12.8	51 A	46 A	48 D		
0800	12.5	51 A	46 A	48 D		
0830	12.5	51 A	46 A	48 D		
0900	12.3	50 A	45 A	47 D		
0930	12.1	44 A	45 A	47 D		
1000	11.9	38 A	43 A	47 D		
1030	11.9	31 A	42 A	46 D		
1100	12.4	20 A	34 A	46 D		
1130	13.1	6 A	31 A	45 D		
1200	13.7		28 A	44 C		
1230	13.7		25 A	43 C		
1300	13.9		21 A	42 C		
1330	14.0		18 A	41 C		
1400	14.1		9 A	40 C		
1430	14.3		6 A	39 B		
1500	14.4		3 A	38 B		
1530	14.5		0 A	37 B		
1600	14.6		-2 A	37 B		
1630	14.7		-4 A	36 B		
1700	14.8		-5 A	36 B		
1730	14.8		-7 A	35 B		
1800	14.6		-7 A	35 B		
1830	14.5		-7 A	35 B		
1900	14.5		-7 A	35 B		
1930	14.6		-7 A	35 B		
2000	14.6		-5 A	36 B		
2030	14.6		-4 A	36 B		
2100	14.7		-2 A	37 B		
2130	14.7		0 A	37 B		

2200	14.7	3 A	38 B
2230	14.7	6 A	39 B
2300	14.7	9 A	40 B
2330	14.7	12 A	41 B

Signal levels suppressed if below -10 dB or if predicted availability is zero
 Availabilities A: 75 - 100% B: 50 - 75% C: 25 - 50% D: 1 - 25%

MINIPROP PLUS SHORT-PATH PREDICTIONS 06-27-1997 Path Length: 3090 km
 SSN: 15.8 Flux: 73.0 Radiation Angle: 16 deg for Minimum No. of F Hops: 2
 TERMINAL A: 34.00 N 118.00 W KJ6ZH Bearing to B: 81.0 deg
 TERMINAL B: 33.73 N 84.38 W Atlanta, Georgia Bearing to A: 280.1 deg
 Terminal A Sunrise/Set: 1247/0303 UTC Terminal B Sunrise/Set: 1034/0047 UTC

K: 1

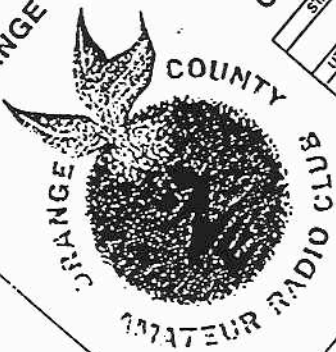
		----- SIGNAL LEVELS in dB ABOVE 0.5 uV -----				
UTC	MUF	3.6 MHz	7.1 MHz	14.2 MHz	21.2 MHz	28.5 MHz
0000	14.1		25 A	43 C		
0030	14.1		28 A	44 C		
0100	14.1	1 A	36 A	45 C		
0130	14.0	15 A	39 A	46 C		
0200	13.9	29 A	42 A	47 C		
0230	14.4	40 A	44 A	47 B	46 D	
0300	14.2	44 A	45 A	48 C		
0330	13.9	52 A	46 A	48 C		
0400	13.7	53 B	46 A	48 C		
0430	13.5	52 A	46 A	48 C		
0500	13.3	52 A	46 A	48 C		
0530	12.6	52 A	46 A	48 C		
0600	12.1	52 A	46 A	48 D		
0630	11.7	52 A	46 A	48 D		
0700	11.3	52 A	46 A	48 D		
0730	10.9	52 A	46 A			
0800	10.5	52 A	46 A			
0830	10.3	52 A	46 A			
0900	10.2	52 A	46 A			
0930	10.2	52 A	46 A			
1000	10.2	52 A	46 A			
1030	10.2	50 A	46 A			
1100	10.5	41 A	44 A			
1130	11.1	30 A	42 A	47 D		
1200	11.7	17 A	39 A	46 D		
1230	12.4	4 A	37 A	45 D		
1300	13.2	-10 A	28 A	44 C		
1330	13.1		25 A	44 C		
1400	13.5		23 A	43 C		
1430	13.7		20 A	42 C		
1500	13.8		17 A	41 C		
1530	13.9		15 A	41 C		
1600	14.1		13 A	40 C		
1630	14.2		11 A	40 C		
1700	14.3		10 A	39 B		
1730	14.3		9 A	39 B		

Ramblings-----

Now that you are warmed up and pumped up for Field Day. Try to get some rare DX later on with a new QSL card.

SHOW YOUR PRIDE IN THE OCARC!

ORANGE COUNTY, CALIFORNIA, U.S.A.
KJ6ZH



CHRIS BRELLER

STATION	DAY	MONTH	YEAR
UTC	FREQ	PSK	MODE

13802 DUNROBIN
 BELLFLOWER, CALIFORNIA 90706
 PSE QSL TXN

MAIL ORDER TO:
L&B PRINTING COMPANY
 Marcum's QSL's
 4645 Pine Street
 Riverside, CA 92501-4001
 OR CALL: 1-800-390-2220 FOR CREDIT CARD ORDERS

YOUR CALL 100 - \$22.00*
 250 - \$26.00*
 500 - \$34.00*
 1000 - \$45.00*
 *PLUS \$3.75 SHIPPING

YOUR ADDRESS 100 250 500 1000
 CHECK MONEY ORDER
 CARD #
 SIGNATURE _____
 EXP. DATE _____

Club Nets

<u>Band</u>	<u>Mode</u>	<u>Day</u>	<u>Local Time</u>	<u>Freq. Mhz.</u>	<u>Net Control</u>
15 Meters	SSB	Wednesday	7:30 P.M.	21.375*	AF6C
2 Meters	FM	Wednesday	8:30 P.M.	146.550 Simplex	WB6IXN

(Listen for W6ZE, Net Control)

* Plus or Minus QRM

General Meeting

June 20th
July 18th
August 15th

General meeting is the third Friday of each month, 7:30 P.M., at the AMERICAN RED CROSS facilities.
601 N. Golden Circle Dr. , Santa Ana, CA
Major cross streets: Fourth Street and Tustin Ave.
Talk-in frequency 146.550 MHZ. simplex.

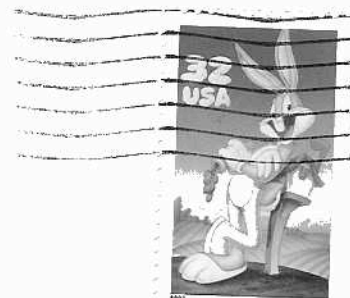
Board Breakfast

July 5th
August 2nd
Sept 6th

Board Meeting is the first Saturday of each month at 8:00 A.M. The Wildflower Restaurant - members and visitors are welcome.
2525 N. Grand Ave., Santa Ana, CA
Exit the 5 freeway at 17th St., go east to Grand Ave. Go north on Grand; or exit the 22 Freeway at Glassell/Grand. Go south to restaurant.



Orange County Amateur Radio Club, Inc
P.O. Box 3454
Tustin, CA 91781



First Class Mail

To:

Your Personal
Copy

Time Dated Material
PLEASE RUSH