



ORANGE COUNTY AMATEUR RADIO CLUB

VOL. XXXI NO. 7

P.O. BOX 3454, TUSTIN, CA 92681

JULY 1990

LET'S

Principles
Search
Tracking
Types

TALK

RADAR

Techniques

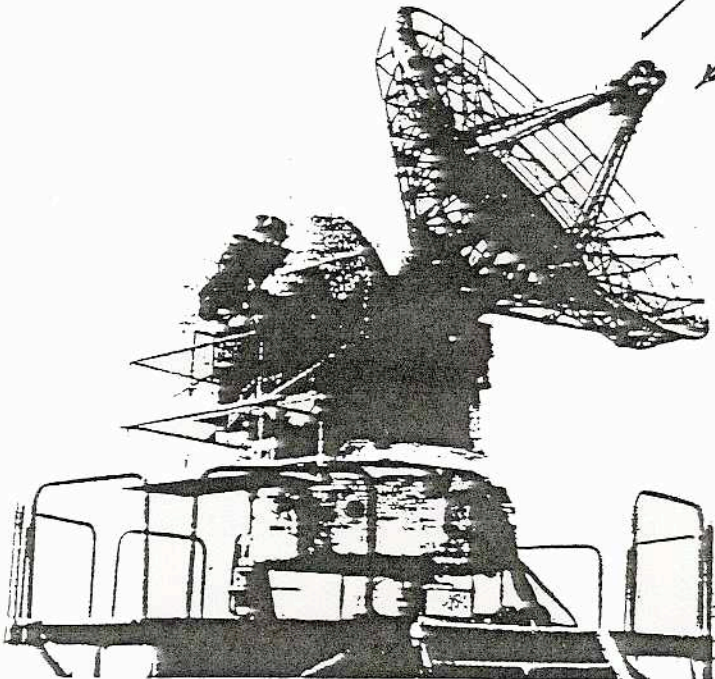
Transmitters

Antennas

Signal Processing

Clutter Rejection

Countermeasures



Friday - July 20 - 7:30 PM

KI6UL

CLUB BOARD OF DIRECTORS

President Chris Breller KJ6ZH . . (213)-866-2077
 Vice President. . . . Ken Konechy W6HHC 541-6249
 Secretary Bob Tegel KD6XO 531-0926
 Treasurer Bob Eckweiler AF6C 639-5074
 Activities. John Meacham KJ6TK 842-4702
 Membership. Tom Thomas. WA6PFA. 771-2917
 Public Relations. . . Mark Stanford KJ6JC 991-7398
 T.V.I. Chairman . . . Bud Barkhurst WA6VPP. 774-6366
 Member at Large . . . Frank Smith WA6VKZ.
 Member at Large . . . John Roberts. WA6LAB. 540-7368

CLUB APPOINTMENTS

Club Historian. . . . Bob Evans WB6IXN. 543-9111
 W6ZE Trustee. Bob Eckweiler AF6C. 639-5074
 R.F. Editor (Act.). . Mark Stanford KJ6JC 991-7398
 Refreshments. Jane Breller. nOne. . . (213)-866-2077

CLUB FUNCTIONS

Monthly Meeting: 3rd Friday of each month, 7:30PM at:
 MERCURY SAVINGS & LOAN, TUSTIN, CA.
 July 20th 1095 Irvine Blvd. (4th St. Becomes Irvine)
 Talk-in on 146.55 MHz
 Aug 17th -----
 Sept 21st (Take the 4th St. exit of the 55 FREEWAY
 and head east. Continue about two blocks
 past Newport Blvd. It's on the left.)

CLUB BREAKFAST 1st Saturday of each month, 8:00AM at:
 Aug 4th DENNY'S RESTAURANT, 2314 E. 17th St,
 Santa Ana, CA (714) 543-0872

Sept 1st (Second building west of Newport (55) Freeway)

CLUB NETS

| BAND | MODE | DAY | LOCAL TIME | FREQ MHz | SPLIT | PL | OPERATOR |
|-----------|------|-----|------------|----------|-------|----|----------|
| 2 Meters | FM | Wed | 2100 hrs. | 146.550 | smp1x | na | WB6IXN |
| 15 Meters | SSB | Wed | 2000 hrs. | 21.375* | smp1x | na | KD6XO |
| 15 meters | CW | Thu | 2000 hrs. | 21.175* | smp1x | na | WB6IXN |

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

ARES DISTRICT NETS

| | | | | | | | |
|-------------|-----|------------|---------|-------|----|--------|---|
| 2 Meters FM | Mon | 1900 hrs. | 146.220 | -600 | 1A | N6HQI | 1 |
| 2 Meters FM | Mon | ~1915 hrs. | 145.340 | -600 | 4Z | WA6VKZ | 2 |
| 2 Meters FM | Mon | 1930 hrs | noted | smp1x | na | noted | 3 |

1-ARES Info net, 2-ARES District 3 net starts after info net is completed (Usually about 1915hrs). 3-City nets; Orange: 146.535, WB6FCP; Tustin: 146.505, WA6VKZ; Santa Ana: 147.585, W6HHC

***** PREZ SEZ *****

Field Day 1990 is over and if you didn't come out and visit or operate, then you missed out on an outstanding time! The professional Amateurs on 15 meters racked up almost 800 contacts while 20 meters loafed along at about 360. The 40 meter effort went very well and the VHF/UHF station worked an amazing 200+ contacts. A good time was had by the 10 meter station who was our Novice/Tech station. Several past members of the club stopped by including Robin N6HNY (it's been abt 6 yrs since I last saw him).

Many, many thanks to N6UJD, Phil who did an outstanding job in obtaining our site, to my XYL N0NE, Jane for the excellent food, to W6NGO, Kei for the tower, antenna, and generator storage, as well as the Sake and Sish Kabobs at midnite. Thanks to all of you who helped out by raising towers and operating stations.

This month's meeting will feature a presentation on RADAR, and on the Saturday (July 21) after the meeting we are planning a PIZZA BUST. See you at the meeting!

73 de Chris KJ6ZH

JULY PROGRAM IS ON RADAR

The program for this FRIDAY's meeting (July 20) will be all about RADAR, and will be presented by BoB Dahlin/KI6UL. Bob has been involved with many aspects of RADAR for a long time and has planned this talk as an introduction and overview into RADAR. Don't miss this interesting program!!! See you at the meeting!

ANOTHER EX-MEMBER HEARD FROM: W6VQL

CHRIS/KJ6ZH ran into ex-member DICK HART / W6VQL on the 145.22 repeater the other day. Most of us had not heard from Dick since he retired out to HEMIT last year. (I wonder if Dick is still the youngest member of the Hemit Radio Club??) At any rate, Dick says HI to all the members of OCARC. His phone number at his new QTH in HEMIT is (714) 652-9888.

SWAP TABLE

STARTING WITH THE JULY '90
MEETING OCARC WILL HAVE A
SWAP TABLE. BRING YOUR TREASURES
TO BE SOLD OR SWAPPED TO THE
MEETING. THE CLUB WILL ASSESS
10% OF THE SALE PRICE OR
ACCEPT A CONTRIBUTION FOR SWAPS.

For Starters - KI6UL has donated some Commodore computer components to the club. They will be available for inspection on a table before the club meeting. Any contributions will go to the club treasury.

(2) Commodore 64
-50 Disketts
Oracle Data Base
Programming Book

(1) Vic 20 with Code Program
Kaola Drawing Pad
Proline Word Processor
80 Column Display Adapter

(1) 1541 Disk Drive
Bus Card II Interface
Paper Clip Word Program
Cassett Recorder

1571 Color Monitor
Calc Result Advanced (Spread Sheet)
3 Games (Packman, Centipede, Sea Wolf)

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

BY: Ken/W6HHC & Bob/AF6C

| YEAR | 80 | | 75 | | 40 | | 20 | | 15 | | 10 | | 6M | | 2M | | 2M | | 220 | | 440---- | | | | TOTAL----- | | | |
|------|-----|-----|-----|-----|-----|-----|-----|------|----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|------------|-----|-------|--------|
| | CW | SSB | CW | SSB | CW | SSB | CW | SSB | CW | SSB | CW | SSB | CW | SSB | PHN | PKT | PHN | ATV | PHN | ATV | PHN | ATV | PHN | ATV | PHN | ATV | QSO's | POINTS |
| 1968 | 10 | 224 | 62 | 396 | 93 | 328 | 24 | 430 | - | 0 | 68 | 0 | 0 | 145 | - | 0 | 0 | 0 | 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 | 169 | - | 0 | 0 | 0 | 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 | 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 | 0 | 1,046 | 2,092 |
| 1972 | 0 | 50 | 0 | 350 | 0 | 521 | 0 | 530 | - | 0 | 0 | 0 | 94 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,545 | 3,090 |
| 1973 | 90 | 226 | 0 | 452 | 0 | 932 | 0 | 273 | - | 0 | 0 | 0 | 46 | - | 0 | 0 | 0 | 0 | 0 | 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 | 6 | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 2,053 | 4,934 |
| 1976 | 99 | 254 | 152 | 487 | 21 | 600 | 64 | 210 | - | 2 | 54 | 0 | 2 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,945 | 4,566 |
| 1977 | 25 | 243 | 163 | 199 | 0 | 843 | 47 | 486 | - | 0 | 309 | 0 | 4 | 234 | - | 0 | 0 | 19 | 34 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2,610 | 5,812 |
| 1978 | 14 | 196 | 242 | 170 | 30 | 981 | 50 | 558 | - | 0 | 145 | 0 | 1 | 164 | - | 23 | 2 | 4 | 7 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 2,600 | 5,926 |
| 1979 | 0 | 195 | 198 | 92 | 42 | 773 | 0 | 737 | - | 0 | 95 | 0 | 2 | 124 | - | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,266 | 5,016 |
| 1980 | 20 | 149 | 205 | 235 | 471 | 318 | 52 | 1025 | - | 0 | 226 | 12 | 0 | 100 | - | 36 | 0 | 0 | 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 | 0 | 0 | 0 | 2,487 | 5,648 |
| 1982 | 0 | 105 | 49 | 238 | 40 | 352 | 0 | 515 | - | 0 | 72 | 0 | 0 | 155 | - | 27 | 0 | 10 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,582 | 3,400 |
| 1983 | 3 | 93 | 200 | 0 | 0 | 776 | 0 | 995 | - | 0 | 43 | 18 | 0 | 16 | - | 1 | 0 | 0 | 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 | 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 | 0 | 0 | 0 | 1,288 | 3,602 |
| 1986 | 0 | 46 | 219 | 78 | 0 | 488 | 0 | 45 | 10 | 0 | 0 | 0 | 0 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 968 | 2,374 |
| 1987 | 22 | 0 | 0 | 39 | 0 | 708 | 0 | 18 | 1 | 0 | 0 | 1 | 0 | 51 | 5 | 0 | 0 | 0 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 0 | 962 | 2,202 |
| 1988 | 127 | 0 | 66 | 75 | 2 | 359 | 0 | 570 | 0 | 0 | 81 | 0 | 0 | 32 | 14 | 0 | 0 | 27 | 0 | 144 | 0 | 0 | 0 | 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 |

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.

MINUTES OF OCARC BOARD MEETING - July 7th

The OCARC Board Meetings are held immediately after the club breakfasts on the first Saturday of each month. The following board members were present at the July 7 meeting:

- × CHRIS/KJ6ZH × TOM/WA6PFA
- × KEN/W6HHC × FRANK/WA6VKZ
- × BOB/AF6C

× The treasurer, Bob/AF6C, reported that the OCARC had \$560.65 in the CHECKING account and another \$862.50 in the SAVINGS.

× Jane (N0NE) reported that the PIZZA PARTY for the OCARC was scheduled to be held on Saturday, July 21 (the day after the club meeting) at 6 PM. The location for this party will be at ROMA D'ITALIA restaurant on El Camino Real in the city of TUSTIN.

× MARK/KJ6JC has done an outstanding effort to act as editor for the OCARC newsletter since last December. However, his grinding work schedule won't allow him to continue in that role any longer. The OCARC is actively looking for a member who will work full time as editor. If you are interested give CHRIS/KJ6ZH a call. The following members volunteered to do the newsletter for a month (hopefully on a rotating basis):

- JULY - FRANK / WA6VKZ
- AUG - KEN / W6HHC
- SEPT - BOB /AF6C
- OCT - CHRIS / KJ6ZH

If you are willing to take the "RF" editorship for just a month, please give CHRIS/KJ6ZH a phone call. Again, the BOARD thanked MARK/KJ6JC for his fine efforts these last 7 months.

× Frank/WA6VKZ made a motion to start a "SAWP TABLE" at each meeting. The motion passed and the table will start up at the JULY meeting.

× TOM/WA6PFA noted that a correction was needed in the "RF" when noting the FREQ of the ARES simplex net for the city of Orange. The correct frequency is 146.535 for the net that begins at 19:30 on Monday evenings.

PIZZA BUST

JULY 21

ROMA D'ITALIA

EL CAMINO REAL
TUSTIN

ACROSS THE STREET
FROM ELIZABETH HOWARD
DINNER THEATRE

"RF"

ORANGE COUNTY AMATEUR RADIO CLUB

JULY 1990

XX

MINUTES JUNE MEETING: Meeting was called to order by president Chris KJ6ZH at 7:30 p. m. absent was Mark KJ6JC. There were 29 members and guests present. Ken presented "Field Days Past", slides of 89 Field Day and Tom

WA6PFA presented a video of upcoming site. Ken W6HHC will publish minutes from May Meeting. TREASURERS REPORT: Checking: \$624.43 Savings \$862.50.

OLD BUSINESS:

Field Day - class might be 5 A, Jane presented menu, band captains were set. Newsline legal fund has been sent \$140 so far. NEW BUSINESS: WB6IXN has TV flow charts for interference problems and coils for wrapping phone lines to eliminate TVI. Motion made to reinstitute "Mr RF" seconded and carried. Corky N6HQI found an antenna at Radio shack that could be used for 3 bands - 2 meters, 440 and 6. There is a need for instructor in basic electronics for the Sea Scouts. GOOD OF THE CLUB: Still don't know if the club will be working

the OC fair on Saturday. Meeting adjourned 9:02 pm.

Respectfully submitted, Bob KD6XD Secretary.



ORANGE COUNTY AMATEUR RADIO CLUB, INC.

P.O. BOX 3454

TUSTIN, CA 92681

DATED MATERIAL ! ! !

FIRST CLASS MAIL