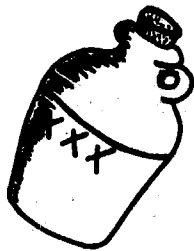


The Contest JUG



NEWSLETTER OF THE
NORTHERN CALIFORNIA CONTEST CLUB
34456 COLEVILLE PLACE
FREMONT CA 94546

JULY 1982
NUMBER 123

PRESIDENT: W6SZN VP/CC: KN6M SCTY/TREAS: K6ZM
DIRECTORS: AA6AG, N6KB, N6XI, W6XX JUG Post P: K6RU JUG EDITOR: K6RU
COMMITTEES: PROGRAM-N6AUV MEMBERSHIP-OPEN FINANCE-N6AUV AWARDS-KA6ING

YOSEMITE - 4 SEASONS

COMING EVENTS

JULY DINNER MEETING PROGRAM

ADAM MENTES, N6QR WILL PRESENT HIS MAGNIFICENT COLOR SLIDE AND MUSICAL SHOW
"YOSEMITE - THE FOUR SEASONS"
THE LADIES WILL LOVE THIS ONE, TOO. DON'T MISS IT!

JULY 23 (FRIDAY): NCCC DINNER MEETING, MIGUELS, HAYWARD (SEE THIS JUG). AUG. 28-29: JARL ALL ASIAN DX CONTEST-CW.

AUG. 23: NCCC MEETING, HAYWARD

SEPT. 12 (SUNDAY): SUNNYVALE OLYMPICS-
MANY NEW ACTIVITIES!!

PRESIDENT KIP SAYS

CAN BAND CONDITIONS GET ANY WORSE. SPECULATING ON THIS SUBJECT SEEMS TO BE THE POPULAR SUBJECT LATELY ON THE REPEATER -- WITH GOOD REASON. NOTWITHSTANDING GENERALLY POOR CONDITIONS, A NUMBER OF NCCC'ERS BRAVED IT OUT FOR THE RADIO-SPORT WEEKEND AND DID THEMSELVES PROUD. CONGRATULATIONS TO ALL AND ESPECIALLY TO GARY, WA6VEF, WHO PRODUCED A SINGLE OP PHONE SCORE FROM KN6M THAT LOOKS LIKE IT WILL WIN THE WHOLE THING.

LAST MONTH'S PLEA FOR A PROGRAM CHAIRMAN VOLUNTEER MET WITH SUCCESS. RON, N6AUV, "VOLUNTEERED" AT THE BoD MEETING, MUCH TO THE DELIGHT OF ALL PRESENT. PLEASE GIVE YOUR IDEAS FOR FUTURE PROGRAMS TO RON.

AS NOTED ELSEWHERE IN THIS ISSUE, MEMBERSHIP DUES ARE DUE JULY 1. IF YOU HAVEN'T DONE SO ALREADY, PLEASE SEND A CHECK TO PHIL, K6ZM. I UNDERSTAND THAT PHIL HAS PUT TOGETHER A BUNCH OF SUBMINIATURE LINE NOISE GENERATORS FOR THOSE WHO FAIL TO DO SO.

AT THE LAST BoD MEETING, THOSE PRESENT DISCUSSED AT SOME LENGTH THE FORMAT OF THE CHRISTMAS BANQUET. WE CONCLUDED (AS DID LAST YEAR'S BoD) THAT THE AFFAIR WOULD BE MORE FUN, ESPECIALLY FOR NON-HAMS, WITHOUT A LENGTHY AWARDS PRESENTATION. ACCORDINGLY, THIS YEAR'S BANQUET WILL BE JUST THAT -- AN EVENING OUT AT A NICE RESTAURANT THAT OFFERS GOOD FOOD, A BAR WHERE YOU CAN BE HEARD WITHOUT SHOUTING, AND ENTERTAINMENT. THE PRESENTATION OF AWARDS WILL BE LIMITED TO CONTESTER OF THE YEAR, ROOKIE OF THE YEAR, AND TWO OR THREE OTHERS. THE BALANCE OF THE AWARDS WILL BE PRESENTED AT A MEMBERS-ONLY DINNER MEETING IN MARCH, 1983. THE TENTATIVE DATE OF THE CHRISTMAS BANQUET IS DECEMBER 11, 1982. WITH THIS MUCH ADVANCED NOTICE NO ONE CAN LATER CLAIM THAT THEY HAVE MADE OTHER PLANS.

(CON'T)

MINUTES OF NCCC
BOARD OF DIRECTORS MEETING
JULY 1, 1982

THE MEETING WAS HELD AT THE HOME OF N6XI IN SARATOGA. THOSE WHO ATTENDED WERE W6SZN, N6XI, N6KB, AA6G, N6AUV, K6RU AND AG6D. IARU RADIOSPORT PAPERWORK WAS DISTRIBUTED AT THE START OF THE MEETING.

THE N6OZ JAMMING CASE WAS DISCUSSED AT SOME LENGTH. IT WAS UNDERSTOOD THAT THE CASE IS BEING APPEALED. PRESIDENT KIP WILL DISCUSS THE POSSIBILITY OF JOINT ACTION WITH OFFICERS OF NCDXC.

A NCCC MEMBER CONTEST WAS OUTLINED AS PROPOSED BY WA6VEF. A FIRST PASS AT THE FORMAT INCLUDED: A WEEKNIGHT, PREFERABLY TUESDAY, FROM 8 TO 10 PM; LOW POWER, EXCITERS ONLY; EXCHANGE TO INCLUDE YEAR FIRST MEMBER AND REAL NAME. CURRENT AND PAST MEMBERS WOULD BE ELIGIBLE TO PARTICIPATE.

SINCE THERE HAS NOT BEEN AN OVERWHELMING FLOOD OF APPLICANTS FOR PROGRAM CHAIRMAN, N6AUV AGREED TO TAKE THIS RESPONSIBILITY WITH COMMITTEE SUPPORT FROM N6XI AND K6RU AND OTHER VOLUNTEERS.

IT WAS ANNOUNCED THAT THE JULY MEETING WILL BE DINNER. RON, N6AUV WILL MAKE THE ARRANGEMENTS, AND CAM WILL CONTACT ADAM, N6QR ABOUT GIVING HIS GREAT YOSEMITE SHOW (HE'LL BE THERE-ED.).

IT WAS AGREED THAT THE SUNNYVALE OLYMPICS BE GIVEN MORE ADVANCED PUBLICITY THIS YEAR AND THE PROGRAM OF ACTIVITIES BE EXPANDED INCLUDING A RADIO CONTEST. CHUCK, AA6G AGREED TO MAKE ARRANGEMENTS WITH THE CITY FOR PARK FACILITIES.

THE DATE FOR THE CHRISTMAS PARTY WAS TENTATIVLY CHOSEN FOR DEC.11. THE AWARDS BANQUET TO BE HELD IN 1983.

THE MEETING WAS ADJOURNED AT 9:55 PM.

RESPECTFULLY SUBMITTED,

CAM PIERCE, K6RU ACTING SCTY.

PRESIDENT KIP SAYS
(CON'T)

THE PROGRAM FOR THIS MONTH'S DINNER MEETING PROMISES TO BE A REAL WINNER. ADAM, N6QR, HAS AGREED TO MAKE THE TREK FROM PINE GROVE TO PRESENT HIS YOSEMITE SHOW. THOSE WHO HAVE SEEN THE SHOW IN OTHER FORUMS GIVE IT RAVE REVIEWS. I HOPE TO SEE YOU THERE.

73, KIP W6SZN

1982 IARU RADIOSPORT
CLAIMED SCORES

KN6M (WA6VEF opr) S/O, PHONE, ALL BANDS, FULLY DUPED.....	2664	X	139		
N6RO(+N6IG, AA6UO, NJ6D, N6NE,KN6M) M/S, MIXED MODE, ALL BANDS				2850 X 150
K6HNZ, S/O, PHONE, ALL BANDS	1599	X	131	W6SG(K6LRN op)LP,CW	105 X 17
WB6FCR, S/O, MIXED, ALL BANDS	1190	X	102	K6CSL, S/O, CW, ALL B.	138 X 24
N6BZA, S/O, MIXED, ALL BANDS	600	X	58	NJ6D, S/O, CW, ALL B.	120 X 20
K6XO, S/O, MIXED, ALL BANDS	467	X	40	N6KT, S/O, PH, ALL B.	55 X 28

WR6ADM - QNI JUNE 23, JULY 7: N6KB[NC](2), KN6K(2), K6RU, WA6BOB, KA6ING, WB6DSV, WB6FCR, N6BZA, AD6D, N6AUV, K6CSL, W6SZN, NI6G, N6FJS.

MINUTES OF
NORTHERN CALIFORNIA CONTEST CLUB
MEETING OF JUNE 28, 1982

THE MEETING WAS CALLED TO ORDER AT 7:45 PM BY PRESIDENT KIP, W6SZN. THE MEMBERS INTRODUCED THEMSELVES AND REPORTED ON THEIR ACTIVITIES IN THE ALL ASIAN PHONE CONTEST AND IN THE FIELD DAY MADNESS. EVERYONE REPORTED THAT A GOOD TIME WAS HAD BY ALL AND NO MAJOR CATASTROPHIES OCCURRED.

THE MINUTES OF THE MAY MEETING WERE READ AND VOTED APPROVED AFTER THE CORRECTION OF THE MYSTERY MAN TO BE N6XI WHO WON ONE OF THE RAFFLE PRIZES.

WB6DSV REPORTED THAT HE EXPECTED TO BE APPOINTED THE NEW MEMBER OF THE CAC BY W6ZM VERY SOON. CONGRATULATIONS, GEORGE.

JIM STEWART, KF6R AND DAVID HENRY, N6FJS WERE VOTED INTO MEMBERSHIP. WELCOME TO THE NCCC JIM AND DAVE.

KIP PRESENTED THE PROPOSED BUDGET FOR 1982/83. THE EXPECTED EXPENSES WILL BE APPROXIMATELY \$3,000. AFTER A FEW QUESTIONS AND EXPLANATIONS, THE BUDGET WAS UNANIMOUSLY ACCEPTED BY THE MEMBERS IN ATTENDANCE.

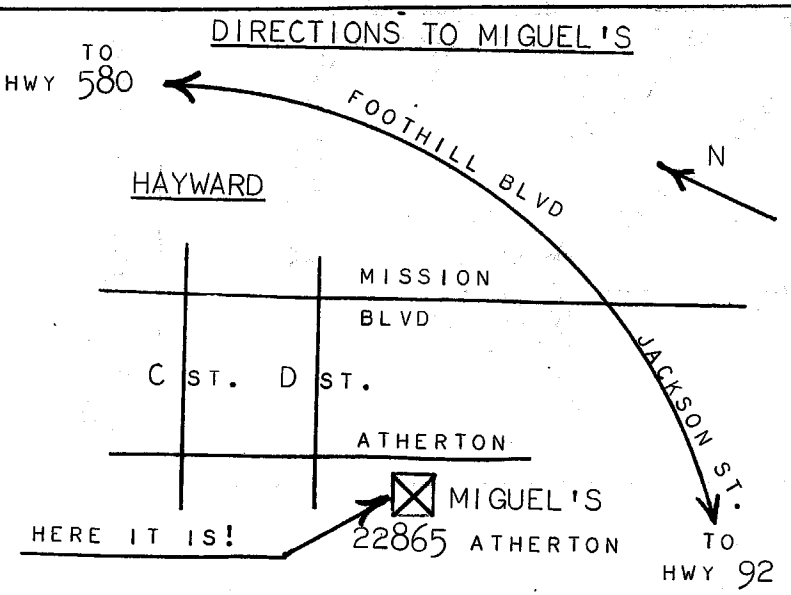
THE RAFFLE WAS USED AS A BREAK PERIOD TO GIVE TIME FOR SELLING TICKETS AND EVEN PAYING DUES. COMMERCIAL: PLEASE PAY YOUR DUES NOW! FULL MEMBER - \$12.00; ASSOCIATE MEMBER (LIVES OUTSIDE CLUB AREA) - \$9.00; FULL-TIME STUDENT - \$9.00; JUG SUBSCRIPTION - \$6.00. THE RAFFLE YIELDED \$37 AND THE LUCKY WINNERS WERE WA6HCI, WD6ERA, AA6T, AND N6KB.

THE MAIN EVENT, A HALF-HOUR MOVIE "TO WIN THE WORLD" SHOWING A GROUP OF "HIRED GUNS" AT N2AA IN ACTION IN THE 1981 CQWW PHONE CONTEST WAS RECEIVED WITH GREAT INTEREST BY EVERYONE. IT ALSO SHOWED THE LARGE WESTCHESTER (NY) ESTATE OF BUZZ REEVES, K2GL WHERE THE ACTION TOOK PLACE. THE ESTATE WAS COVERED WITH MANY NEW AND USED ANTENNAS AND TOWERS WITH MORE BEING INSTALLED. IT WAS RUMORED THAT THIS MOVIE WAS USED TO DISCOURAGE THE REST OF THE HAM RADIO WORLD, OR MAYBE JUST TO OUT PSYCH THEM!

DEAN, N6BV, GAVE A VERY INTERESTING REPORT OF LISTENING TO THE ALL ASIAN PHONE CONTEST FROM JAPAN. THE OUTSTANDING SIGNALS FROM THE BAY AREA WERE K6HNZ, KN6M AND N6RO WITH W6SZN NOT FAR BEHIND. FOREIGN BROADCAST STATIONS WERE A BIG SOURCE OF INTERFERENCE ON THE ASIATIC SIDE OF THE PACIFIC. DEAN ALSO PRESENTED AN IMO LOGGING PEN TO "BLUCE", N6TU, FROM HIS MANY FRIENDS IN JAPAN.

THE MEETING WAS ADJOURNED AT 9:50 PM.

PHIL FRAZIER, K6ZM
SCTY/TREAS



DINNER MEETING FACTS

FRIDAY - JULY 23, 1982
COCKTAILS - 6:30 PM
DINNER - 7:30 PM

MIGUEL'S RESTAURANT
22865 ATHERTON AVE.,
HAYWARD, CA

MENU - SALAD, CHIPS AND SALSA, CHOICE OF THREE ENTREES, COFFEE OR TEA.

PRICE - \$10.00 INCLUDING TAX AND TIP.

A POOR MAN'S ROTATING ANTENNA SIDEMOUNT

by John Hawkins K5NW

A few of us were fortunate to see a presentation recently by Rush Drake, W7RM, a World-class contest and antenna builder. Rush showed many slides of antennas and related things but one of the most eye-catching was the rotating sidemounted antennas. Rotatable sidemounts are not new to Dallas. Phil Ashcraft, N5DD, used a rotatable full size 3 element 40 meter beam sidemount as a part of a 3 over 3 array at WB5DTX. Phil published an article in QST describing this monstrous arrangement.

When I installed my present 90 foot tower, I had already experienced the luxury of a secondary 10 meter beam, although it was non-rotatable, as an advantage in a contest. This time, however, I decided the lower beam should be rotatable. So, using N5DD's article as a reference, I designed and constructed my own rotating antenna sidemount.

The main difference between my sidemount and previous ones is the size of the antenna it supports, the materials of which it is made and the construction techniques. Mine is designed to be built in the average ham's garage with a hacksaw and 3/8 inch electric drill. A little forethought helps and some elbow grease is mandatory. It also helps if you have carbide metal cutting blades for your circular saw.

The K5NW sidemount is shown in Figure 1. The basic supporting structure is two pieces of 1x1x3/16 inch aluminum angle stock, each piece of which is U-bolted to two tower legs. The rotator is a Radio Shack TV model which came from the sidewalk sale for \$10.00. It mounts on a mast stub about 18 inches long made of 2 inch EMT (conduit) U-bolted to each of the aluminum angle pieces.

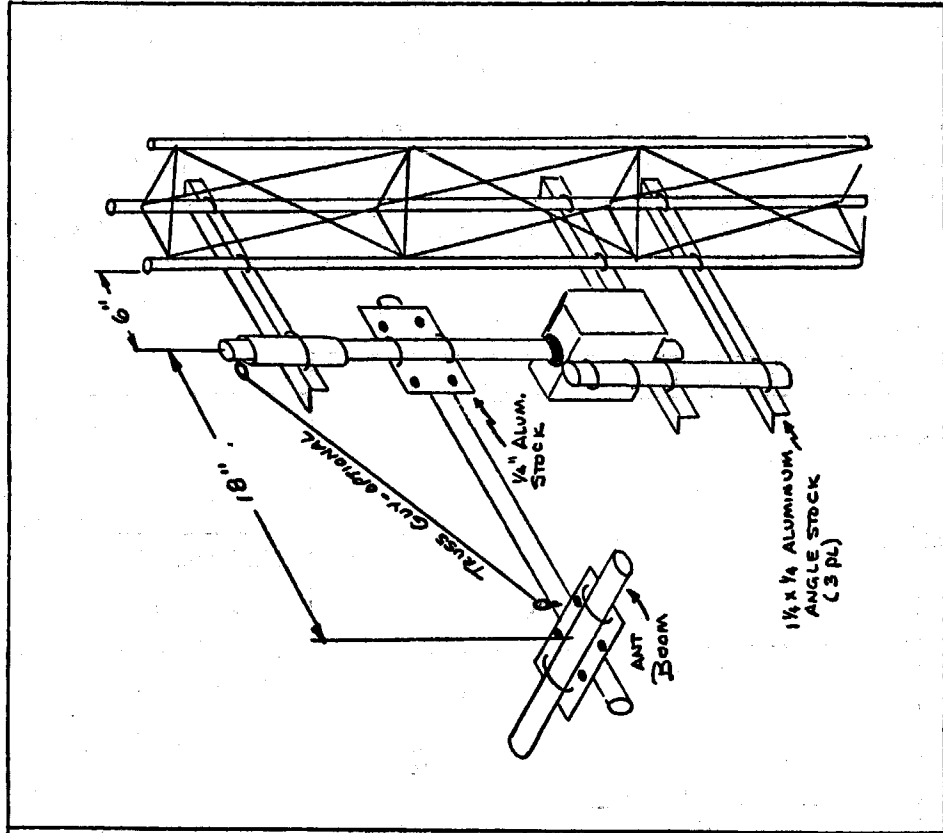


FIGURE 1. K5NW POOR MAN'S ROTATABLE SIDE MOUNT.

The rotating mast is 1 1/2 inch EMT extending about 24 inches beyond the top of the rotator. The rotating mast must be supported by a thrust bearing because of the lateral weight caused by the beam being offset. The thrust bearing use was a simple piece of 1 1/2 EMT, 2 or 3 inches long being slipped over the mast. This outer tubing is then U-bolted to a third piece of aluminum angle stock. The alignment of the thrust bearing axis and mast axis of rotation is very critical. The two axes must align or binding will occur. When the thrust bearing is installed the mast must "float" freely with no lateral load. The vertical rotating mast should be exactly 6 inches from the tower leg. The side arm is 18 inches from the rotating mast. It's length is such that when mounted in place the boom of the antenna is 18 inches from the rotating mast. The side arm mounting plate is similar to a normal mast-to-boom plate.

The antenna used with this arrangement must be fairly small and light. The antenna at K5NW is a 5 element CB yagi converted to a 4 element 10 meter yagi. It is a 17 foot boom of about 1 1/4 inch diameter with very thin elements. My setup does not require the optional truss guy shown in Figure 1 but a heavier antenna would require it.

This arrangement allows 300° plus rotation about the tower. Inspection of the great circle map reveals that except for CE0 and HCB and KC4, no DXCC countries lie due south of Dallas. Thus the sidemount should be oriented on the tower leg such that the "dead zone" falls centered on 180°. The resulting angle of coverage extends from 150° around through north to 210°, covering virtually the whole DX world.

Let me suggest that the initial assembly and testing be carried out near ground or roof level. My installation allowed complete assembly and checkout with the antenna about four feet above the ground. There were indeed some adjustments and changes to be made the first time the antenna was rotated. These were certainly easier to make standing on the ground rather than a tower rung.

Once checkout is complete and you are thoroughly familiar with the rotational limits the parts are removed. First the antenna is removed from the sidearm, the thrust bearing is removed, the rotator mast combination is removed, then the angle stocks plus rotator stub is removed. These are then carried aloft and installed in the reverse order of the disassembly.

(tmx North Texas Contest Club bulletin)
AND NCJ

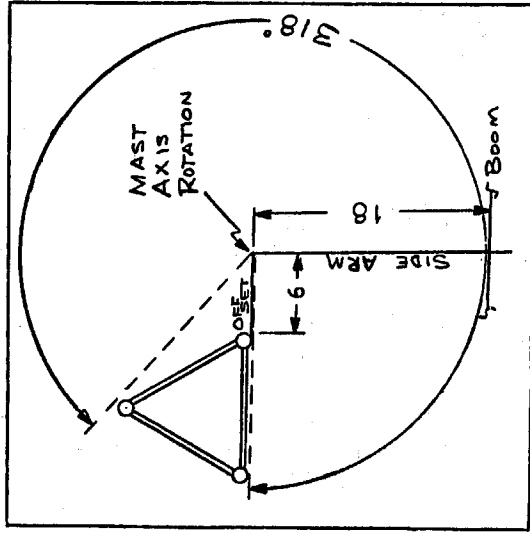


FIGURE 2. MAX ANGLE OF ROTATION

HERE IS A GOOD SUMMER PROJECT FOR M/M OR M/S STNS.
-- OR FOR THE BOTTOM BEAM OF A STACKED ARRAY.
-- OR FOR TWO DIRECTIONS AT THE SAME TIME. -K6RU

NEW MEMBERS

N6FJS - DAVID H:415)282-0817
 F. DAVID HENRY W:415)895-9110
 80 MONTCALM ST.,
 SAN FRANCISCO, CA 94110

DAVID IS 42 YEARS OLD AND HOLDS AN
 ADVANCED CLASS LICENSE. HIS FORMER
 CALL WAS VK2EAC. HE PREFERS PHONE
 OPERATION. HIS NICE STATION INCLUDES
 TS-830S, L4-B, TH7DX AND 2 METER GEAR.

KF6R - JIM H:415)687-1092
 JAMES A. STEWART W:415)495-8780
 3398 WREN AVE.,
 CONCORD, CA 94519

JIM IS 40 YEARS OLD AND HAS BEEN LIC-
 ENSED FOR 24 YEARS. HE HOLDS AN EXTRA
 CLASS TICKET. HIS FORMER CALLS ARE
 W6IXI, KB6MN, AND K7AHY. JIM DESCRIBES
 HIS STATION AS "MODEST". HE PREFERS CW
 OPERATION 90% OF THE TIME. HIS CONTEST
 EXPERIENCE INCLUDES WPX, CQWW DX AND
 IARU (SECTION WINNER IN 1981).

BoD: AUGUST 5 JUG DEADLINE: AUG.12

CLASSIFIED

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 75S-3B Rcvr \$400; 32S-1 XMTR \$300;
 312B-3 SPKR \$25; 351R RACKS(3) \$75;
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 415)595-0258 EVES.

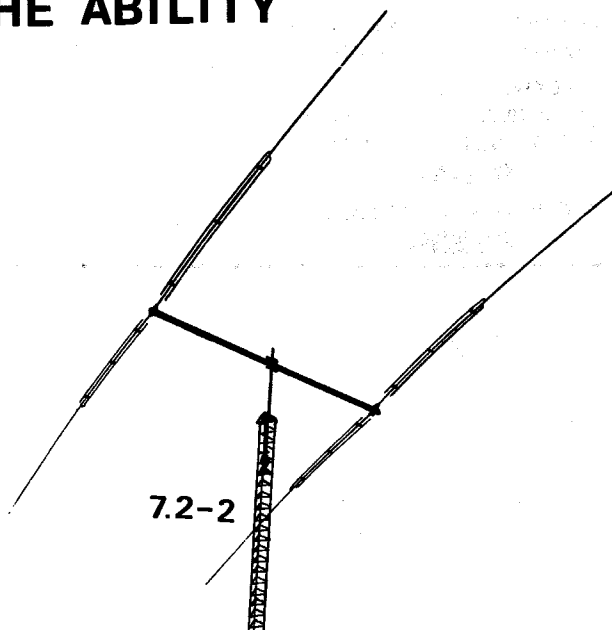
WANTED: 50 OR 60 FEET OF ROHN 25 TOWER.
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 \$345. BILL, N6OP 415)549-1900.

FIERCE FIELD DAY COMPETITION

FOR THE FOURTH YEAR IN A ROW K6YT, PAARA,
 AND K6YA, FOOTHILLS ARC WENT ALL OUT TO
 WIN THE NATIONAL TITLE IN CLASS 4A IN
 LAST MONTH'S FIELD DAY. THE OUTCOME HAS
 NOT YET BEEN DETERMINED BUT IT WILL BE
 VERY CLOSE. K6YT HAD MORE QSO'S BUT K6YA
 HAD MORE 2 POINTERS (CW Q'S). NCCC MEM-
 BERS WERE MUCH IN EVIDENCE AT BOTH OPER-
 ATIONS. AT K6YA - AA4KB, N6BT, N6RO, N6AUV,
 AG6D, K6MA, W6XR, N6BZA, AA6G, AJ6V, N6XI, AA6AD
 AND WB6DSV. AT K6YT - KN6M, N6KT, K6XO,
 WA6VEF, N6TV, K6SEM, K6RU AND WB6DSV.

YOU PROVIDE THE ABILITY



SPECIFICATIONS

7.2-2

Frequency of operation: 7.0-7.3 MHz
 (x 125 KHz)

Gain: 4.9 dBd

F/B: 12 dB

Feed Impedance: 50 ohms unbalanced.

Max element length: 46'

Boom length/Dia: 16'/3"

Weight: 45 lbs

Windload: 6 sq ft

For Mast: 2" O.D.

The 7.2-2, on a 16 foot boom, is ideal for hams seeking well-rounded coverage of the amateur bands, as well as good DX capabilities. The linear-loaded elements virtually eliminate interaction with 20 meter beams and permit stacking as close as 4 feet.

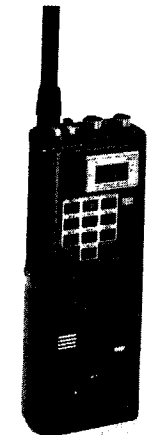
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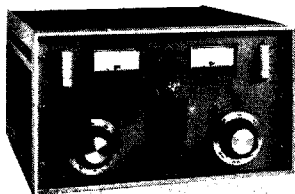
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4 element tri-bander

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6 element tri-bander

Regular \$569.95 **\$469**

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Regular \$199.95 Special \$159.00

KLM 7.2-240M, 2 element beam.
Regular \$349.95 Special \$299.00

KLM 7.2-340M, 3 element beam.
Regular \$529.95 Special \$449.00

KLM 7.0-7.3 4A 40M, 4 element beam.
Regular \$749.95 Special \$629.00

TRI-EX W51, 51 foot tower.
Regular \$999.95 Special \$829.95

W51 TOWER w/ KT-34A
\$1099

W51 TOWER w/ KT-34XA
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34456 COLEVILLE PLACE
FREMONT, CA 94536



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FIRST CLASS
FIRST CLASS

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