

The Contest JUG



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

OCTOBER 1983

NUMBER 137

PRESIDENT: K6HNZ VP/CC: NR61 SECTY/TREAS: KC6D
DIRECTORS: K6KLY, W6OAT, W6SZN, K6TMB JUG Post Prod: K6HNZ JUG EDITOR: K6RU
COMMITTEES: CQP - K6XO AWARDS - KA6ING PROGRAM- MEMBERSHIP- FINANCE-

KB CQWW!

COMING EVENTS

OCTOBER MEETING PROGRAM

BON VOYAGE TO OUR DXPEDITIONS - INCLUDING CHAMPAGNE

THE DX EDGE EXPLAINED BY TOM SCHILLER, N6BT

LAST MINUTE PROPAGATION FORCAST FOR CQ WW SSB BY AL LOTZE, W6RQ

OCT.24: NCCC MEETING, 7:30 PM CWA
HALL, HAYWARD

OCT.29-30: CQ WW DX CONTEST - SSB

NOV.5-6: ARRL SS CONTEST - CW

NOV.10: NCCC BoD MEETING AT W6SZN

NOV.19-20: ARRL SS CONTEST - SSB

NOV.26-27: CQ WW DX CONTEST - CW

DEC.10: ARRL 10 METER CONTEST

DEC.17: SATURDAY EVENING - NCCC
CHRISTMAS BANQUET. A SOCIAL EVENT.
VELVET TURTLE, BURLINGAME. RESERVE
THIS DATE!!

10 DAYS TO CQ WW SSB

THAT'S RIGHT. ON THE DAY YOU RECEIVE THIS JUG THE FIRST HALF OF THE YEAR'S BIGGEST DX CONTEST WILL BE JUST 10 DAYS IN THE FUTURE. DX BAND CONDITIONS ARE REALLY PICKING UP AFTER THE SUMMER SLUMP. SO DON'T MISS IT. LAST YEAR THE NCCC FINISHED THIRD WITH 94,834,409 POINTS. THE YCCC WON WITH 117,228,900 POINTS. WITH JUST A FEW MORE STATIONS ON, AND ALL SCORES SUBMITTED, WE COULD HAVE BEEN THE WINNER. LET'S NOT SETTLE FOR SECOND OR THIRD PLACE THIS YEAR. PARTICIPATION OF ALL MEMBERS IS THE ANSWER. SO FIND YOUR SPOT AS A SINGLE OP OR WITH A MULTI STATION AND GO FOR IT. IF YOU NEED HELP FINDING A STATION TO OPERATE OR OPERATORS FOR YOUR STATION CALL A COMMITTEE MEMBER OF MYSELF. WE ARE ALL OK IN THE NEW ROSTER.

THE CQP APPEARS TO HAVE BEEN A BIG SUCCESS AGAIN THIS YEAR WITH LOTS OF BIG SCORES IN-STATE AND OUT-OF-STATE. PARTICIPATION WAS EXCELLENT AND MANY NEEDED COUNTIES WERE MADE AVAILABLE. A VERY HEARTY THANKS TO ALL WHO HELPED MAKE THIS THE BEST STATE QSO PARTY. THE SEPT. DINNER MEETING WAS A BIG SUCCESS WITH THE BEST CROWD OF THE YEAR SHOWING UP TO ENJOY MEXICAN FOOD AND K6RU'S "POLYNESIA REVISITED". MANY THANKS CAM. NOTE THE DEC. DATE FOR THE CHRISTMAS BANQUET. PLAN TO ATTEND. NO CONFLICT WITH THE 10 METER CONTEST THIS YEAR.

BEST OF LUCK TO ALL IN THE CQ WW AND HAVE FUN!

73, KEN, K6HNZ



KICK BUTT

Minutes -- NCCC Membership Meeting -- September 26, 1983

The meeting was attended by 46 members and guests, including K6RK, K6XN, K4WJT, KE6PQ, N6IFV, K6YT, and several (X)YL's.

Announcements of the candidacy of W6RGG and W6SZN for Pacific Division Director and Vice-Director were made, as well as the FIRST PLACE finish of N6KT at AI6V in the 1983 ARRL DX Test SSB (congratulations!).

K6RK, K6XN, K4WJT, and KE6PQ were elected/welcome to membership.

We were treated to an expert and entertaining presentation by Cam Pierce of his 1982 visit to Niue and other Pacific points, with many items of interest to both hams and non-hams,

The dinner and fellowship were enjoyed by all. Thanks to Cam for the fine entertainment and dinner arrangements. (Thanks also to N6QW and WA6WEG for their help with the raffle and accounting).

Minutes -- NCCC Board of Directors Meeting -- October, 1983

The meeting was held on 10/10 at K6KLY and attended by K6KLY, K6HNZ, KC6D, N6TV, K6XO, K6TMB, K6RU, W6SZN, and N6KT.

Programs and arrangements for the October membership meeting and the Christmas banquet were developed (see elsewhere in this JUG).

Membership awards for CQWW participation were discussed and proposed to be awarded similarly to last year's.

Preliminary CQP results were reported (see elsewhere).

CQWW planning was continued, with emphasis on staffing of local-area stations. It was decided that K6HNZ will collect and tally CQWW scores and summary sheets.

The club treasury stands at \$2468.06, including \$313.20 in the repeater fund. Roster printing and mailing costs were approximately \$120, and a small profit resulted from the dinner/raffle. Paid club membership now stands at over 150 members (KB!!)

The next Board meeting will be at W6SZN on November 10.

Bob Ehr, KC6D, Secretary/Treasurer

NOTES FROM THE SECRETARY/TREASURER: The comments received on the Roster are much appreciated. Contact me if you have not yet received yours. Thanks to MoJo for quick action in preparing the copy, to Christine Ehr for help with production, and to Don, W6EEN, for his efforts in attempting to do the printing.

NCCC EXPECTS EVERY MEMBER TO DO HIS DUTY!

STEALING A LINE FROM LORD NELSON. JUST 10 DAYS NOW TO CQ WW DX SSB CONTEST. THINGS ARE PRETTY WELL LINED UP FOR A WINNING EFFORT THIS YEAR. TAKE A LOOK AT THE IMPRESSIVE LIST OF DXPEDITIONS BELOW. THIS LINEUP SHOULD BE JUST AS PRODUCTIVE AND COMPETITIVE AS THE 1981 DXPEDITIONS THAT HELPED US WIN THE CLUB CHAMPIONSHIP. WHAT IS NEEDED TO WIN THIS YEARS CHAMPIONSHIP IS AN EFFORT BY THE HOME STATIONS EQUAL TO THAT IN 1981. WE STILL HAVE SOME WORK TO DO MATCHING STATIONS AND OPERATORS AND THINGS ARE SHAPING UP VERY WELL. SOME NEW MULTI'S WILL BE ON THIS YEAR AND WE SHOULD GIVE YCCC AND FRC A REAL RUN FOR THE TOP SPOT.

IF YOU ARE NOT SET WITH A PLACE TO OPERATE CALL N6TV, K6KLY, K6TMB OR MYSELF. WE WILL HELP YOU FIND A SUITABLE STATION. BUT DON'T WAIT. DO IT NOW! I THINK WE CAN WIN THIS THING AND YOU SHOULD ALL BE IN ON THE VICTORY. REMEMBER THE SMALL WINNING MARGIN IN 1981. EVERY POINT WE CAN GET IS NEEDED.

THE SUNSPOT NUMBERS ARE DECREASING AND SO IS OUR HIGH BAND PROPAGATION. IT LOOKS LIKE 10 METERS MAY BE GOOD THIS YEAR, BUT THEN 10 AND EVEN 15 METERS WILL FADE AWAY FOR FOUR OR FIVE YEARS. SO DON'T MISS THIS LAST OPPORTUNITY FOR A REAL INTERESTING DX CONTEST AND THE CHANCE TO PILE UP A BIG SCORE.

THE AWARDS FOR THIS YEAR ARE ALMOST IDENTICAL TO THOSE FOR LAST YEAR. PLAQUES WILL BE AWARDED TO THE STATION OWNER FOR THE HIGH SCORE (TO THE CLUB) IN EACH OF THE FOLLOWING CATEGORIES ON EACH MODE:

SINGLE OPERATOR	DOMESTIC	SINGLE OPERATOR	DXPEDITION
MULTI-SINGLE	"	MULTI-SINGLE	"
2 XMTR MULTI/MULTI	"	MULTI/MULTI	"
UNLIMITED MULTI/MULTI	"		

FOR THE DXPEDITION MULTI/SINGLE AND MULTI/MULTI CATEGORIES, ALL CLUB MEMBER OPERATORS WILL RECEIVE PLAQUES.

ALL NON-WINNER DXPEDITIONS OPERATORS WILL BE PRESENTED APPRECIATION AWARDS. PROBABLY THE POPULAR PAPERWEIGHTS.

OPERATOR AWARDS, PROBABLY THE PAPERWEIGHTS, WILL BE PRESENTED TO THE OPERATORS OF THE WINNING STATION IN EACH DOMESTIC CATEGORY, EXCLUDING THE STATION OWNER.

CERTIFICATES WILL BE AWARDED TO ALL MEMBERS WHO ACHIEVE 500,000 POINTS ON A SINGLE MODE OR 750,000 POINTS COMBINED BOTH MODES. THE POINTS EARNED BY OPERATORS OF MULTI OPERATOR STATIONS WILL BE THE STATION SCORE DIVIDED BY THE TOTAL NUMBER OF OPERATORS.

THE 2 METER DX SPOTTING NET WILL BE IN OPERATION THE FULL 48 HOUR PERIOD. IF A SINGLE OPERATOR USES THE NET HE BECOMES A MULTI/SINGLE BY CQ MAGAZINE RULES, BUT IS STILL A SINGLE OPERATOR BY NCCC RULES. IT IS A LOT OF FUN AND WILL ADD MANY MULTIPLIERS TO YOUR SCORE. THE NET WILL BE CARRIED ON W6TI/R, 147.96/36, THE NCDXC REPEATER. IF JAMMING BECOMES A PROBLEM TRY THE NCCC REPEATER ON 147.84/24. IN THIS CONTEST WE ARE COMPETING AGAINST THE EAST COAST AND NOT AGAINST EACH OTHER. SO PLEASE CALL IN EVERY POSSIBLE MULTIPLIER. LOUESE, KA6ING, IS ORGANIZING THE SSB 2 METER NET. IF YOU CAN TAKE A 2 HOUR NET CONTROL STINT, PLEASE CALL HER AT 415)583-5333. PLEASE GIVE HER YOUR ASSISTANCE.

(CONT P2)

FOR THOSE WHO ARE NEW TO OUR NET OPERATION EVERY QUARTER HOUR EXACTLY THE NET CONTROL STATION WILL LIST BY BAND ALL THE DX STATIONS REPORTED DURING THE PREVIOUS 15 MINUTES. SYNCHRONIZE YOUR CLOCKS WITH WWV. REPORT DX STATIONS INTO THE NET BY BAND, CALL, FREQUENCY AND YOUR CALL IN THAT ORDER.

THE 1983 CQ WW SSB DXPEDITIONS ARE:

<u>STATION</u>	<u>OPERATORS</u>
AHØ	N6BT
PJ2FR	N6KT
3D2ZM	K6ZM
XE2BC	K6KLY, WB6EXW, N6DOK
V3Ø	AA6DX, NA6T, KN6Q AND NON-MEMBERS
TI1A	W6TPH, W6SZN, AE6U, K6HNZ AND 2 TI OPS.
AL7H	K6OMB
CEØA	K6MYC, W6JKV
VE7WJ	NU6S
KH6MD	A16V, K6GSS, WB6KBZ
HK	W6QL, W6KG
DU	K6WJ

TI1A WILL BE ON ALL 6 BANDS WHENEVER THEY ARE OPEN.

TO ASSIST THE NCCC DXPEDITIONS TO CONTACT EACH OTHER FOR MULTIPLIER EXCHANGE A SKED ON 21,230 KHZ AT 2200Z IS SUGGESTED. STATIONS CAN ARRANGE SKEDS ON OTHER BANDS AT THAT TIME.

THE AFTER CONTEST FREQUENCY FOR DXPEDITIONS WILL BE 21,280 KHZ.

GOOD LUCK IN THE CONTEST AND ABOVE ALL HAVE FUN.

73,

KEN, K6HNZ

3
 1982 CQWW PHONE
 First Day

#1 PLACE WEST COAST
 #8 PLACE USA
 N6BV
 Dean Straw

Time (Z)	75M	40M	20M	15M	10M	Rate	Total	Comments
00					126	126	126	JA
01				64	77	141	267	JA(10), JA(15)
02				85	60	145	412	JA(10), JA(15)
03				131		131	543	JA(15)
04			12	24		36	579	JA(15), AFR/PAC(20)
05	5	11	1			17	596	AFR/CARIB(40), VE/XE(75)
06	4	6				10	606	SA/AFR(40), CARIB(75)
07	4	1	14			19	625	SA(20), CARIB(40), CARIB/KH6(75)
08		73				73	698	JA(40)
09	8	26				34	732	JA(40), CARIB/PAC(75)
10		9				9	741	JA/CARIB(40)
11						0		
12						0		
13	1	63				64	805	JA(40), JA(75)
14		31	26			57	862	EU/ZS/UK(20), JA(40) LP
15			44			44	906	EU(20)
16			2	16	6	24	930	CARIB(10), CARIB/EU(15), EU(20)
17				9	15	24	954	CARIB/EU(10), EU(15)
18				14	5	19	973	CARIB/SA(10), EU(15)
19				4	16	20	993	S.A./PAC/ZS(10), EU/SA(15)
20				34	2	36	1029	CARIB(10), SA/AFR/JA(15)
21				10	19	29	1058	S.A./CARIB(10), SA/JA(15)
22			5	5	32	42	1100	JA(10), JA(15), EU(20)
23			3		44	47	1147	JA(10)
	22	220	107	396	402			

<u>Time (Z)</u>	<u>75M</u>	<u>40M</u>	<u>20M</u>	<u>15M</u>	<u>10M</u>	<u>Rate</u>	<u>Total</u>	<u>Comments</u>
00				115	2	117	1264	PAC(10), JA(15)
01				120		120	1384	JA(15)
02		2		64	1	67	1451	JA(10), JA(15), EU(40)
03			9	97		106	1557	JA(15), EU/SA(20)
04		2	16			18	1575	EU/CARIB(20), EU/AFR(40)
05	1	10				11	1586	AFR/EU(40), KL7(75)
06	1		5			6	1592	VK(20), KL7(75)
07						0		
08	2	1				3	1595	VK(40), CARIB(75)
09	3	41				44	1639	JA/PAC(40), VE(75)
10		74				74	1713	JA(40)
11	4	35				39	1752	JA(40), JA/KH6(75)
12		25				25	1777	JA(40)
13	1		2			3	1780	EU(20), UA ϕ (75)
14			14			14	1794	EU(20)
15				43		43	1837	EU(15)
16				13	13	26	1863	EU/AFR(10), EU(15)
17				7	9	16	1879	S.A./CARIB(10), EU(15)
18				8	8	16	1895	S.A./ZS(10), EU(15)
19			3	9	6	18	1913	S.A.(10), SA/CARIB(15), AFR(20)
20			22	7	2	31	1944	CARIB(15), JA(20)
21			3	25	13	41	1985	JA/OH ϕ (10), JA(15), JA(20)
22			1	19	8	28	2013	JA(10), JA(15), ZS(20)
23			15	2	13	30	2043	JA(10), SA(15), CARIB(20)
	12	190	90	529	75		2043	
	34	410	197	925	477			2043 Total QSO's

NEW MEMBERS

KY6I - RICK H:415)359-1525
 LAMBERT F. WEST W:415)359-1600
 139 DARDANELLE AVE.,
 PACIFICA, CA 94044

RICK IS 45 YEARS OLD AND HAS BEEN LICENSED FOR 4 YEARS. HE HOLDS AN EXTRA CLASS LICENSE. HIS STATION INCLUDES AN FT301D, COLLINS 30L-1, ANTENNAS ARE KT34XA, 3 EL.40M BEAM, WIRES ON 80/160. HE PREFERS 80% PHONE. CONTESTING EXPERIENCE BEGAN WITH THE 1982/83 SEASON. RICK HOLDS WAS, WAC, AND ARRL LIFE MEMBERSHIP.

KZ6Q - Ed H:415)886-3846
 EDWIN L. PIERCE II, W:415)323-0038
 22250 MOSELLE COURT,
 HAYWARD, CA 94511

ED IS 39 YEARS OLD AND HAS BEEN LICENSED FOR 23 YEARS. HE HAS AN EXTRA CLASS TICKET. FORMER CALLS WV61EN, WA61EN, K7ZUW. HIS STATION INCLUDES TS-830S, HENRY 2K-4 AND TH6DXX ANT. HE WORKS 75% CW. HE HAS LIMITED CONTEST EXPERIENCE AND HOLDS ARRL PUBLIC SERVICE AWARD.

K6XN - TED H:408)253-9724
 THEODORE S. PARK, W:408)998-0123
 1147 STAFFORD DRIVE,
 CUPERTINO, CA 95014

TED IS 40 YEARS OLD AND HAS BEEN LICENSED FOR 23 YEARS. HE HOLDS AN EXTRA CLASS TICKET. FORMER CALLS ARE WV6LDC, WA6LDC, K6XN/V2A. HIS STATION INCLUDES TS-820S, R-820, ALPHA 76PA, KT34XA AT 80', 40M KLM DIPOLE. HE DOES'NT HAVE MUCH CONTEST EXPERIENCE BUT HE KNOWS DX. 5BAND DXCC, 299 CO. CONFIRMED. MEMBER NCDXC, NCDXF, LIFE MEMBER ARRL. HE RUNS 75% CW!

KE6PQ - STEVE H:415)961-0474
 STEVEN C. BRUNT, W:408)727-6500
 P.O.Box 3453, EXT.275
 SANTA CLARA, CA 95055

STEVE IS 34 YEARS OLD AND HAS BEEN LICENSED 3 YEARS. HE HAS AN EXTRA CLASS TICKET. HIS FORMER CALL WAS KA6LTJ. HIS STATION INCLUDES IC-730, KT34A. HE OPERATES 60% CW. STEVE IS A MEMBER OF NCDXC AND FARS. HE HAS BEEN AN ACTIVE DX CONTESTER FOR THE LAST 3 YEARS.

NEW MEMBERS

K4WJT - HARRY H:415)572-1591
 HARRY W. MCKISSICK, W:415)342-5757
 622 EDGEWATER BLVD. #208,
 FOSTER CITY, CA 94404

HARRY IS 36 YEARS OLD AND HAS BEEN LICENSED 23 YEARS. HE IS EXTRA CLASS. PAST CALLS INCLUDE DJØUY, 5Z4AA, DJØUY/HBØ, AND CEØA AND CEØZ LICENSES UNTIL 1985. HE HAS A MODEST TEMPORARY STATION WITH A KWM-2A AND DIPOLE WORKING 90% CW. HE HAS HAD EXTENSIVE CONTEST EXPERIENCE WINNING MANY AWARDS IN DX CONTESTS IN USA, EUROPE AND AFRICA. HE IS A MEMBER OF ARRL, DARX AND IS ØØ.

AND LAST BUT NOT LEAST

K6RK - CHUCK H:415)934-3419
 CHARLES D. PATTERSON,
 3101 WITHERS AVE.,
 LAFAYETTE, CA 94549

CHUCK IS 66 YEARS OLD AND HAS BEEN ON THE AIR FOR 53 YEARS. HE HOLDS AN EXTRA CLASS LICENSE. HIS FORMER CALLS ARE W6ATR, W2NXØ, AND W6FCN. HIS STATION INCLUDES TS-930S, 8877 HB AMPLIFIER, TS-830S, HENRY 2K, KT34, 4Ø/8Ø WIRES. HE OPERATES 75% CW. IN 1982 CHUCK SET THE NEW CQP RECORD FOR CALAVERAS CO. HE IS 5BDXCC, YASME AWARD AND IS THE PRESIDENT OF THE NORTHERN CALIFORNIA DX CLUB.

1983 CQP HIGH CLAIMED SCORES

N6BV	2011	57	
K6ZM	1960	58	(WA6VEF OPR)
A16V	1970	57	
K6HNZ	1711	58	(EXPEDITION)
N6QW	1260	57	
W6SZN	1104	57	(EXPEDITION)
AA6AD	1400+	56	(MULTI-EXPEDITION)
K6RQ	930	56	(MULTI)
K6RK	813	55	(EXPEDITION)
WAØAVL	646	54	
WA7NIN	606	53	(W6OAT OPR)
K6RU	404	50	

ROSTER CHANGE

WB6DSV - GEORGE VARVITSIOTIS,
 2504 BUENA VISTA AVE.,
 BELMONT, CA 94002

CALIFORNIA QSO PARTY

CALL SIGN

STATE
OR
COUNTY

BAND	CW	QSOs	SSB	CLASS
10				<input type="radio"/> SINGLE OPERATOR <input type="radio"/> MULTI OPERATOR Operators
15				
20				
40				
80				
160				
TOTAL QSO				
	x 3=		X 2=	
TOTAL QSO POINTS				Total Multiplier X <input style="width: 50px; height: 20px;" type="text"/> = <input style="width: 100px; height: 20px;" type="text"/>

CLUB PARTICIPATION

Mailing Address

Name _____

Number and Street _____

City, State/Province _____

Zip _____

I Have observed all competition rules as well as all regulations established for amateur radio in my country. My report is correct and true to the best of my knowledge. I agree to be bound by the decisions of the Contest Committee.

Signature _____

Call _____

K6ZM SOUTH PACIFIC TOUR

YASME sails again

Although it probably will not be by boat, Lloyd Colvin, W6KG, and Iris Colvin, W6QL, will set forth on a half-year YASME DXpedition, starting the first part of October 1983. This trip is planned for South America, including possible excursions to some of the more rare countries and islands.

Present plans call for operation in Colombia, HK; Ecuador, HC; Peru, using 4T4WTY for World Telecommunications Year; Bolivia, CP; Chile, CE; Argentina, LU; Uruguay, CX; and Paraguay, ZP.

Operation will be on the low end of all bands, both phone and CW, with special efforts on 30, 40, 80 and 160 meters. Lloyd and Iris want all the QSLs and QSOs they can get, but please limit QSOs to only one per band per mode per country.

All cards go to YASME, P.O. Box 2025, Castro, Valley, CA 94546.

-YASME

-Tnx SCDXC BULLETIN

OCT.15 - Nov.8: FIJI - 3D2ZM (CQ WW SSB)
 Nov.8 - Nov. 23: TONGA - A35ZM
 Nov.23 - DEC. 2: NIUE - ZK2ZM (CQ WW CW)
 LOOK FOR PHIL ON THESE FREQUENCIES (MHz):
 CW: 3.505/.525, 7.007/.014, 14.014/.044,
 21.014/.044, 28.014/.044. SSB: 3.796
 7.087/.097 L7.160±/.220, 14.180/.280/.330,
 21.280/.330/.380, 28.530/.630.

CLASSIFIED

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- ‡ Calls sorted by country
- ‡ Calls sorted in Callbook order within country
- ‡ Multipliers and dupes in chronological order
- ‡ Breakdowns by band (number of QSOs, number of dupes, number of QSOs after dupes)
- ‡ Hour-by-hour QSO rate sheet

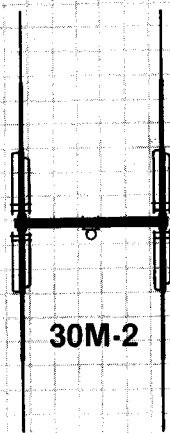
Customized pressure-sensitive QSL labels are available for an additional 1¢ per QSO.

For complete information, call (408) 264-N6TV or write Bob Wilson, N6TV, 4950 Cherry Ave. #46, San Jose, CA 95118. I'll send you a flyer by return mail.

Top Value Duping Service

Call (408) 264-N6TV

KLM 30 Meter Monoband Yagis



30M-2

30M-2: SPECIFICATIONS

Bandwidth: 10.1 to 10.150 MHz

Gain:

VSWR: less than 1.5:1

F/B:

Feed Impedance: 50 ohms

Element length: 35'3"

Boom: 3"O.D. x 12'

Turn Radius: 18'6"

Weight: 35 lbs

Windload: 4 sq ft

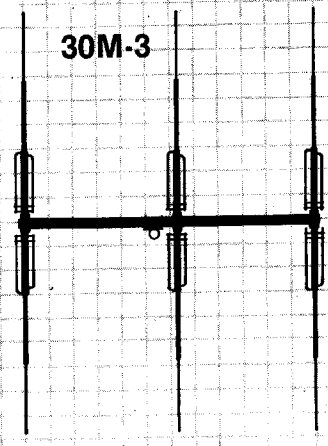
KLM is proud to announce two new high performance monobanders for 30 meters. The KLM 30M-2 and 30M-3 are carefully designed to combine moderate size with superior performance. Either of these compact powerhouses can be a valuable addition to your antenna system without overloading the tower or rotator.

■ Construction materials feature strong 6063-T832 alloy aluminum element and boom tubing, massive Lexan insulators, and stainless steel hardware for years of reliable service.

■ A DC grounded Beta match and KLM's proven 4:1 DC grounded Balun make the 30M-2 and 30M-3 as lightning/static proof as possible. The unique linear loading system keeps element lengths manageable without sacrificing performance.

■ The adventure of a new band awaits you. Double your pleasure with the great gain and broadband response of the KLM 30M-2 or 30M-3. See your KLM dealer now!

KLM Electronics, Inc.
 P.O. Box 816,
 Morgan Hill, CA 95037
 (408) 779-7363



30M-3

30M-3: SPECIFICATIONS

Bandwidth: 10.1 to 10.150 MHz

Gain:

VSWR: less than 1.5:1

F/B:

Feed Impedance: 50 ohms

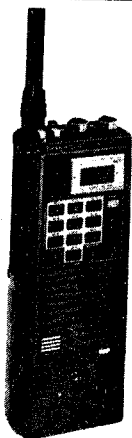
Element length: 35'3"

Boom: 3"O.D. x 24'

Turn Radius: 21'5"

Weight: 50 lbs

Windload: 7 sq ft



KENWOOD

NEW!!



TW-4000A

FM "Dual Bander"
2m and 70cm in a
single package!

TR-2500

TS-930S



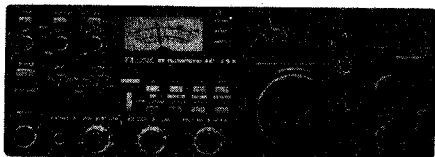
TS-430S



NEW!! IC-745



NEW!! IC-751



KLM/TRI-EX

KLM KT-34A
4 element tri-bander

Regular \$389.95 **\$299**

KLM KT-34XA
6 element tri-bander

Regular \$569.95 **\$459**

KLM 7.2-1 40M rotatable dipole.
Regular \$199.95 Special \$159.00

KLM 7.2-2 40M, 2 element beam.
Regular \$349.95 Special \$299.00

KLM 7.2-3 40M, 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
\$1239

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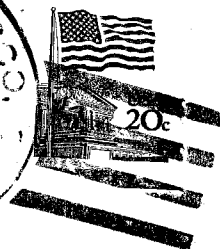
BURLINGAME, CA 94010

999 Howard Ave., (415) 342-5757
5 miles south on 101 from S.F. Airport.

OAKLAND, CA 94609

2811 Telegraph Ave., (415) 451-5757
Hwy 24 Downtown Left 27th off-ramp.

THE CONTEST JUG-PUBLISHED MONTHLY BY
THE NORTHERN CALIFORNIA CONTEST CLUB
34456 COLEVILLE PLACE
FREMONT, CA 94536



FIRST CLASS
FIRST CLASS
FIRST CLASS

W6DAT
EPPS, CHARLES K
948-H KIELY BLVD
SANTA CLARA, CA 95051

EXPIRES:0684