

The Contest JUG



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

JANUARY 1983

NUMBER 129

PRESIDENT: W6SZN VP/CC: KN6M SCTY/TREAS: K6ZM
DIRECTORS: AA6G, N6KB, N6XI, W6XX JUG EDITOR: K6RU
COMMITTEES: PROGRAM-N6AUV MEMBERSHIP-W6OWQ FINANCE-N6AUV AWARDS-KA6ING

CQP-23 NEW RECORDS!

COMING EVENTS

JANUARY MEETING PROGRAM

WILBUR "BIP" BACHMAN, W6BIP - NEW TECHNIQUES USED TO REDUCE TVI.

AND

KEN KEELER, N6RO - RF SPECTRUM ANALYZER. BRING YOUR FILTERS AND HAVE THEM CHECKED OUT.

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

FEB.26-27: CQ WW 160 METER SSB CONTEST

FEB.28: NCCC MEETING, HAYWARD

JAN.28-29: CQ WW 160 METER CW CONTEST

MAR.5-6: ARRL DX CONTEST - SSB

FEB.19-20: ARRL DX CONTEST - CW

PRESIDENT KIP SAYS

HAPPY NEW YEAR! HERE'S HOPING THAT 1983 BRINGS US ALL BIGGER SCORES, FEWER DUPES AND, MOST IMPORTANT, AN INCREASED SENSE OF SATISFACTION AND FUN FROM CONTESTING AND FROM THE NCCC.

OVER THE PAST SEVERAL MONTHS, A NUMBER OF NCCC'ERS HAVE VOICED THEIR CONCERN OVER SEVERAL ISSUES RELATING TO THE CLUB WHICH REVOLVE AROUND THE ANSWERS TO TWO QUESTIONS: WHERE IS THE NCCC HEADED AND WHAT KIND OF CLUB SHOULD IT BE? IN MY VIEW, THESE ARE QUESTIONS FOR THE GROUP AS A WHOLE, NOT JUST THE HANDFUL OF OFFICERS AND DIRECTORS. IT'S NO SECRET THAT MANY NCCC'ERS ACTIVE IN THE CLUB'S AFFAIRS DURING THE PAST TWO OR THREE YEARS HAVE GROWN WEARY OF DOING ALL THE WORK AND HAVE ELECTED TO TAKE INDEFINITE SABBATICALS. IN MOST ORGANIZATIONS WORTH THEIR SALT, THIS WOULD PRODUCE A RUSH OF "NEW BLOOD", READY AND EAGER TO FILL THE VOID. WITH A FEW NOTABLE EXCEPTIONS, THE NCCC HAS NOT BEEN SO LUCKY. THE FEW WHO "RUN" THE CLUB OFTEN FIND THAT GETTING "VOLUNTEERS" IS MORE TIME-CONSUMING THAN SIMPLY DOING THE JOB THEMSELVES. THUS, WE FACE A SITUATION NOW WHERE A FEW DO ALL THE WORK, LESS THAN ONE-FOURTH OF THE CLUB'S MEMBERS REGULARLY ATTEND MEETINGS OR OTHERWISE PARTICIPATE IN THE CLUB'S ACTIVITIES, AND OVERALL ENTHUSIASM AND INTEREST ARE DOWN.

SO WHAT TO DO? MAYBE NOTHING. THE NCCC HAS SEEN PEAKS AND VALLEYS OF THIS SORT IN THE PAST AND HAS SURVIVED - - OR, INDEED, HAS FLOURISHED. BUT IT SEEMS TO ME THAT THE ISSUES AT LEAST NEED TO BE AIRED BY THE CLUB AS A WHOLE.

(CON'T)

PRESIDENT KIP SAYS (CON'T)

I HOPE THAT RAISING THE PROBLEM IN THIS FORUM WILL GENERATE INCREASED DISCUSSION OF IT, ESPECIALLY AS THE ELECTION OF NEW OFFICERS AND DIRECTORS DRAWS NEAR. WHATEVER HAPPENS, IM CONVINCED OF ONE THING: BEING INVOLVED WITH THE NCCC MUST CONTINUE TO BE FUN.

ENOUGH OF THE "HEAVY" STUFF FOR THIS TIME AROUND. CONGRATULATIONS AND THANKS TO RON, N6AUV, FOR MAKING THIS YEAR'S CHRISTMAS BANQUET THE BEST EVER. ALL WHO ATTENDED SEEMED TO AGREE THAT THE RESTAURANT, DINNER AND SERVICE WERE EXCELLENT. THE BoD HAS DECIDED TO RETURN TO THE VELVET TURTLE FOR NEXT YEAR'S AFFAIR.

THE BoD BEGAN ITS DISCUSSION OF 1983-84 OFFICER AND DIRECTOR NOMINATIONS AT ITS JANUARY MEETING AND THE SUBJECT IS ON THE AGENDS FOR FEBRUARY AND MARCH. IF YOU ARE INTERESTED IN SERVING, LET THAT INTEREST BE KNOWN.

SOME HAVE SUGGESTED THAT THE CLUB MOUNT AN EFFORT IN THE UPCOMING WPX CONTEST. THIS, FOR MANY, IS ONE OF THE BEST "FUN" CONTESTS GOING. TO DO IT RIGHT, HOWEVER, WE NEED SOMEONE TO TAKE CHARGE OF THE PROJECT, ORGANIZE IT, AND MAKE IT WORK. ANY VOLUNTEERS?

THIS MONTH'S MEETING WILL FEATURE BIP, W6BIP, ON NEW TECHNIQUES FOR TVI PREVENTION. THIS, OF COURSE, IS A SUBJECT DEAR TO ALL OF US. IF YOU WANT TO KEEP YOUR NEIGHBORS FROM POUNDING ON YOUR DOOR OR STICKING PINS THROUGH YOUR COAX, SHOW UP AND FIND OUT HOW YOUR STATION AND "DALLAS" CAN PEACEFULLY COEXIST. WE'LL BE RAFFLING OFF A DX EDGE. I HOPE TO SEE YOU THERE.

73, KIP, W6SZN

ARRL DX TEST

THE NEXT ALL-OUT CONTEST BRAWL, ARRL DX, IS ONLY A FEW WEEKS AWAY. CHECK PAGE 1 FOR THE DATES AND GET READY. THE NCCC WILL NOT BE SUBMITTING A CLUB SCORE BUT INSTEAD WILL BE SUPPORTING THE NCDXC EFFORT. NCCC'ERS WHO ARE ALSO NCDXC MEMBERS ARE URGED TO GET ON, MAKE THE BIGGEST POSSIBLE SCORE, AND SUBMIT IT ON BEHALF OF THE NCDXC. A MODEST NUMBER OF LOG FORMS AND SUMMARY SHEETS WILL BE AVAILABLE AT THE JANUARY MEETING.

THE COMPLETE WRITEUP ON THE 1982 CQWW WILL APPEAR IN NEXT MONTH'S JUG.

SILENT KEYS

IT IS WITH DEEP REGRET THAT WE RECORD HERE THE PASSING OF TWO CLUB MEMBERS, JIM ROBERTSON, W6MYP, AND HAL SHIMOTA, W6FQF, THE SYMPATHY OF ALL OF US GOES OUT TO THEIR FAMILIES AND FRIENDS.

- - W6SZN

CLASSIFIED

LIKE CONTESTS?

HATE PAPERWORK?

THE N6TV DUPING SERVICE IS NOW ON LINE FROM YOUR LOG I'LL GIVE YOU: 1) A LIST OF DUPE QSO'S BY BAND, TIME OF Q, IN ORDER.
2) LIST OF ALL CALLS BY BAND (DUPE SHEET)
3) BY BAND, # OF Q'S AND DUPES AND NET Q'S
4) LABELS FOR QSL CARDS (ADD 1¢/QSO)
5) PRICE: 4¢/QSO. ACCURACY GUARENTEED!
BOB WILSON, N6TV 408)264-6688 CALL ME.

FOR SALE: MOTOROLA FLEXAR BASE STATION. 460 MHZ, 30 WATTS. WITH MOTOROLA ANTENNA. \$500. CALL SUSAN, WA6OCV 408)425-5616

BoD MEETING: FEB.3 AT K6XO

JUG DEADLINE: FEB.14

1982 CALIFORNIA QSO PARTY

. . .de W6SZN

Fifteen new California county records, eight new state records, increased participation, good conditions, good scores -- and fewer logs received. That, in a word (or several) sums up this year's CQP.

This year's California winner was Gary Caldwell, WA6VEF. With last year's winner, Tree, N6TR, sitting this one out, Gary operated N6BT to within 12 QSO's of setting a new all-time single op record. Congratulations! The out-of-state battle again pitted Mike, WDØEWD, against Scott, WAØAVL. The scores were so close that both logs were completely duped by computer (with many thanks to Phil, K6ZM) to determine the winner. Congratulations to WAØAVL, who prevailed by 426 points -- 4 fewer QSO's than WDØEWD but one more multiplier. The California DXpedition winner was the more-or-less multi-multi operation of NJ6D from Placer County. (By the way, the tri-bander used is now under six feet of snow at Lake Tahoe, making an all-out Placer County effort in 1983 somewhat less than certain.)

This contest gets tougher each year -- all top 10 California single ops found all 58 multipliers this year. Making the top 10 single op listing was much more difficult this year if you were in California (153K this year vs. 139K last year for #10) but easier if you were not (21.3K vs. 32K).

Thanks to all who participated this year. A special thanks to the mobiles and county expeditions who make a special effort each year to activate the hard-to-work California counties.

Several participants suggested rule changes or clarifications. Each of these will be considered by the NCCC Board of Directors at an early meeting and, if implemented, will appear in the announcement of the 1983 CQP to be mailed to all who submitted logs this year.

Take a look at the all-time records reprinted later in this report. There are many state and county records waiting to be claimed and they can be yours -- get on in 1983 and do it.

The statistics and comments reproduced below tell the story of this year's contest.

CALIFORNIA SINGLE OPS

<u>Call</u>	<u>CW Q's</u>	<u>SSB Q's</u>	<u>Mult.</u>	<u>Score</u>
N6BT (WA6VEF op)	342	2,008	58	292,436
N6BV	173	2,072	58	270,454

W6UE (AA6RX op)	285	1,779	58	255,954
AI6V	89	1,936	58	240,062
NE6I	417	1,354	58	229,622
W7CB/6	262	1,515	58	221,328
K6HNZ	---	1,718	58	199,288
NI6W	413	947	58	181,714
W6TPH	246	1,188	58	180,612
NA6M	160	1,083	58	153,468

OUT OF STATE

<u>Call</u>	<u>CW Q's</u>	<u>SSB Q's</u>	<u>Mult.</u>	<u>Score</u>
WAØAVL	144	602	56	91,616
WDØEWD	158	592	55	91,190
K9BG	147	173	46	36,202
WA1FCN	125	188	44	33,044
WDØGPX	150	144	41	30,258
N2AEW	143	133	42	29,190
KX5L	142	138	40	28,080
WB8WKQ	83	206	42	27,762
N5JB	59	194	42	23,730
WA5DTK	89	133	40	21,320

CALIFORNIA MULTI OPS

<u>Call</u>	<u>CW Q's</u>	<u>SSB Q's</u>	<u>Mult.</u>	<u>Score</u>
AJ6O (M/S)	242	1,877	58	259,840
NJ6D (M/M)	483	1,271	58	231,478
N6ZB (M/S)	218	342	51	68,238
K6YA (M/S)	128	294	48	46,656
W6TSE/M (M/S)	269	73	46	43,838

New state records: 8 (IL, IA, MI, MN, MS, NJ, VT, WV)

New California
County records: 15 (Calaveras, Lassen, Los Angeles, Mariposa,
Mendocino, Merced, Mono, Napa, Nevada,
Orange, Plumas, San Luis Obispo, San Mateo,
Santa Clara, Solano)

Most entries -- state: Texas (11)

Most entries -- county: Los Angeles (5)

All 58 California counties were on, but activity in several was very light.

Out-of-State Static

Running a Ten-Tec Triton barefoot to a Wilson WV-1 vertical! [and setting a new all-time record for Miss. -- Ed.] (WB5GRI). . . .Have to beat my old record! [and he did -- Ed.] (WDØGPX). . . .Thanks for one of the best contests yet. Glad to hear those 20 db over S9 sigs consistently coming from stations such as N6BT, N6BV, AJ60, W7CB/6 and many others. (N2AEW). . . .Enjoyed contest but didn't go all out -- too much going on. Look forward to next year. (KA4TSG). . . .This is my second contest ever, being 15 years old and newly upgraded. It was a great contest, in spite of my foul-ups. Hpe 4 mini mor! (N4FQD). . . .Very good contest. Quite a few said they were working me off the side of their beams. It can make it rough up here at times, but I still enjoy a good contest. (NL7D). . . .Was unable to work as much of the contest as I wanted -- had just got out of the hospital!! See you agn in 1983. (KE5B). . . .Boy, what a blast. Did not have any trouble finding someone to work like I have experienced in some of the state QSO parties. (WB5RYB). . . .Enjoyed this very much. (KY5M). . . .Being a California native is an advantage -- the county names make sense to me. Worked the Cal. Tech. station, my alma mater. (KRØU). . . .I really wanted my old record back but W1GNR still has it. I can't wait until next year to try again. (W1FCN). . . .First Cal. party for me since moving to Florida -- really enjoyed it. CU next year. (N4EJW). . . .Great QSO party! (WC4E). . . .Enjoyed the party. Sorry I didn't get all the counties. (W4WIJ). . . . What a great warm-up for the Nov. sweepstakes. Wish Idaho was a little further distant so I could enjoy the 10 and 15 meter action also. CU again next year. (WB7TJI). . . .Enjoyed QSO party weekend. Looking forward to next year already. (WD9IFS). . . .Many thanks for a FB contest! There were plenty of participants and the condx were very good. The rules are set up very well -- glad to see CW operation encouraged. CU agn next year! (WA9MRU). . . .The California QSO Parties are always one of the most interesting operating programs of the year. This year was no exception. Except for the high static level, band conditions were unusually good. I was pleased to find many of the California stations active on all bands

between 80 and 10 meters on both CW and phone. (W5WG). . . .This is one of the very best QSO parties I have ever worked. Conditions were very good and there were a lot of stations on and also very good operators. (WA0KGD). . . .Many thanks for an enjoyable contest. I really appreciate the many stations that took the time to pull my 2 watts out of the QRM. Worked 12 new counties. Sure hope they all QSL. (W8EAO/QRP). . . . Thanks to W6TSE/M for Imperial. Please, please next year mobiles/portables to Madera and Kings (my last two). (W3HDH)Lots of activity. Really enjoyed your QSO party. (WA3JXW). . . .Just thought I would help the guys out. (KC3BO)A good QSO party. I lost several hours to take my son fishing -- didn't catch any fish so should have worked the contest instead. See you next year. (KE4VP). . . .Nice QSO party. Sounds like you had a lot of stations on. (WA4JJY)Enjoyed contest although wasn't able to devote enough time to it. See you next year. (KA4LBD). . . .Looking forward to it again in '83. See you guys in the Texas QSO Party. (N5JB)Tnx for providing a fine business contest! See you next year. (KA5LAQ). . . .Really enjoyed your QSO party! Wish there had been more early AM activity on 40 meters. AJ60 was the only station I found and 40 was in fine shape. See you next year. (KC4IH). . . .1st Cal. QSO Party -- a real good test. (W7DRA). . . .This was a fun contest. Even my wife (N9DIJ) made 35 QSO's! (K9GDF). . . .This is my first Cal. QSO Party. Enjoyed the activity. (N9DIJ). . . .First contest -- started as a check log and changed my mind. (W9JOX)Enjoyed the contest and had a lot of fun with this QRP station. Happy to give so many a Manitoba multiplier. (VE4RF)Had fun and hope to do better next one. (VE7AZV). . . . Nice QSO party. Hope to meet you next year agn! (JA2YKA). . . . California -- still the #1 state QSO party! (W5NR)

California QRM

Carson Pass, Alpine County, el. 8573 ft.: Would have worked into the night but at 8,500 feet it is just too cold after the sun goes down. (N6AU/6). . . .All in all I had a ball again from a rare county. See you next year. (W6NAT). . . . Location was at el. 5242 feet, on the border of Lassen and Plumas counties. Set up was in the back of a pickup -- 3 el. at 12 feet on 15, 2 el. on 10 and a dipole of 40 and 20. The dipole was in both counties; the truck and rig were in Plumas and the generator was in Lassen. (N6QW -- Lassen/Plumas Counties). . . .I found this contest an absolute pleasure to operate. The number of VE's on 10 meters was absolutely amazing! I believe I worked at least two of every multiplier. Long live 10 meters! (AA6RX, op. of W6UE). . . .Looking forward to next year when I can put in full time (hopefully) (N6HC). . . .Ours was a low key effort. The WX was top -- warm and shirt sleeve WX from Sat. morning to Sun. afternoon. The view was worth the trip. This is the third year from Mt. Tamalpais. Four years ago, the Foothills ARC was on from Alcatraz, the first operation since 1962. All in all, we had a good outing, perfect WX, and fair radio condx. (K6MA, op./trustee of K6YA). . . .This year's CQP was enjoyable,

without the TVI and gun threats I experienced a few years ago. (NA6T). . . .Although I've been licensed 28 years, this is the first contest I've entered! Fantastic fun! Looking forward to next year. (W6MSN). . . .Missed the DX stations this year. (AA6EE). . . .Nice contest. Seemed to be good turnout in Cal. and elsewhere. Have to give it full time shot in '83. (WA6AUE). . . .Location was a turnout on the side of Highway 89. The site had a 150 foot drop to a valley about 3 miles wide -- a clear shot to the east. No CW operation as I left the keyer on Sat. nite and the battery was dead on Sunday. (N6QW -- Sierra County). . . .

SCORE LISTING: (CW QSOs, Phone QSOs, Mults, Total Score)
M-S denotes multi-single entry; M-M denotes multi-multi entry; *denotes new county or state record.

CALIFORNIA

					<u>Kern</u>				
					KA6CZS	---	104	32	6,656
<u>Alameda</u>					<u>Lassen</u>				
W6BSY	---	1,290	58	149,640	* K6JKC	96	122	40	21,280
W6MFZ	251	359	56	82,376	N6QW	67	121	41	18,163
K6ARE	72	---	29	6,264	<u>Los Angeles</u>				
K6CSL	35	68	22	5,302	* W6UE	285	1,779	58	255,954
K6XO/M	20	54	25	4,200	(AA6RX op)				
<u>Alpine</u>					NE6I	417	1,354	58	229,622
N6AU/6	87	79	38	15,922	N6HC	116	713	57	101,118
<u>Amador</u>					W6NNV	96	---	27	7,776
NA6M	160	1,083	58	153,468	AJ60	242	1,877	58	259,840
(M/S: NA6M, KI6O, NB6G ops.)					(M/S: AJ60, KB6EQ, N5FA ops)				
<u>Calaveras</u>					<u>Marin</u>				
* K6RK	---	784	57	89,376	K6XO/M	12	24	15	1,260
<u>Contra Costa</u>					K6YA	128	294	48	46,656
K6ZM	262	551	55	103,840	(M/S: K6MA, KE6PQ, KE6ZA, N6DOK, WB6YZI, KB6BA, W8RPA ops.)				
K6XO/M	11	6	11	495	W6SG	107	101	52	27,196
<u>Del Norte</u>					(M/S: K6LRN, WB6TKD ops.)				
W6NAT	---	355	50	35,500	<u>Mariposa</u>				
<u>El Dorado</u>					* K6HNZ	---	1,718	58	199,288
N6AU/6	21	1	14	910	<u>Mendocino</u>				
<u>Imperial</u>					* NA6T	153	963	57	135,945
W6TSE/M	269	73	46	43,838	W6MSN	265	374	51	78,693
(M/S: W6TSE, AC6H ops.)									
<u>Inyo</u>									
WD6EBN	---	51	24	2,448					

<u>Merced</u>				
* <u>W6TPH</u>	246	1,188	58	180,612
N6ZB	218	342	51	68,238
(M/S: N6ZB, KS6H ops.)				
<u>Mono</u>				
* <u>W6SX</u>	341	478	53	104,887
N6ESV	---	77	24	3,696
N6AU/6	14	33	20	2,160
<u>Napa</u>				
* <u>W6F5J</u>	169	257	52	53,092
K6XO/M	7	8	11	407
<u>Nevada</u>				
* <u>AI6V</u>	89	1,936	58	240,062
<u>Orange</u>				
* <u>NI6W</u>	413	947	58	181,714
AA6DP	158	2	37	17,686
<u>Placer</u>				
<u>NJ6D</u>	483	1,271	58	231,478
(M/M: NJ6D, KN6M, W6SZN ops.)				
<u>Plumas</u>				
* <u>N6QW</u>	67	121	41	18,163
K6KWN	21	---	17	1,071
<u>Riverside</u>				
<u>WA6KFX</u>	12	99	31	7,254
<u>Sacramento</u>				
<u>KF6A</u>	3	226	40	18,440
<u>K6SG</u>	43	119	38	13,946
<u>N6JM</u>	9	115	36	9,252
<u>San Bernardino</u>				
<u>N4ARO/6</u>	72	98	40	16,480
<u>San Diego</u>				
<u>AA6EE</u>	182	---	35	19,110
<u>San Francisco</u>				
<u>WA6AUE</u>	221	---	37	24,531
<u>K6XO/M</u>	23	31	24	3,144
<u>San Luis Obispo</u>				
* <u>W7CB/6</u>	262	1,515	58	221,328
<u>San Mateo</u>				
* <u>N6BV</u>	173	2,072	58	270,454
N6NF	11	211	43	19,565
W6KZJ	36	---	17	1,836
K6XO/M	6	20	11	638

<u>Santa Clara</u>				
* <u>N6BT</u>	342	2,008	58	292,436
(WA6VEF op.)				
<u>WB6DSV</u>	120	82	42	22,008
<u>K6XO/M</u>	8	19	15	930
<u>Santa Cruz</u>				
<u>N6CM</u>	129	225	49	41,013
<u>Sierra</u>				
<u>N6QW</u>	---	132	38	10,032
<u>Solano</u>				
* <u>K6HIH</u>	331	741	56	138,600
KB6JK	---	1,110	55	122,100
<u>Sonoma</u>				
<u>K6XO/M</u>	8	21	20	1,320
<u>Tehama</u>				
<u>AA6DX</u>	43	257	47	30,221
<u>Ventura</u>				
<u>N6VR</u>	174	472	56	82,096

OUT OF STATE SCORESU.S.A.

<u>Alabama</u>				
<u>KA4TSG</u>	105	59	30	12,990
<u>WA4VEK</u>	---	67	30	4,020
<u>N4FQD</u>	---	44	28	2,464
<u>Alaska</u>				
<u>NL7D</u>	---	75	31	4,650
<u>Arizona</u>				
<u>W7YS</u>	46	---	20	2,760
<u>Arkansas</u>				
<u>KE5B</u>	74	92	32	12,992
<u>K5GOE</u>	---	100	27	5,400
<u>WB5RYB</u>	2	67	25	3,500
<u>KY5M</u>	---	43	30	2,580
<u>W5EIJ</u>	---	19	16	608
<u>Colorado</u>				
<u>KR0U</u>	52	6	24	4,032
<u>Connecticut</u>				
<u>WA1FCN</u>	125	188	44	33,044
<u>KALCZF(QRP)</u>	59	61	29	8,671

<u>Florida</u>									
N4EJW	83	111	38	17,898	<u>Nebraska</u>				
K4DDB	43	58	33	8,085	AKØG	96	122	35	18,620
WC4E	35	75	30	7,650	WAØKGD	40	92	34	10,336
W4WIJ	---	116	32	7,424	<u>New Hampshire</u>				
<u>Georgia</u>									
N4NX	---	25	19	950	K1HI	9	44	25	2,875
<u>Idaho</u>					<u>New Jersey</u>				
WB7TJI	58	44	27	7,074	* N2AEW	143	133	42	29,190
<u>Illinois</u>									
* WAØAVL	144	602	56	91,616	KC2ME	---	65	27	3,510
K9BG	147	173	46	36,202	WA2UDT	5	45	22	2,310
WD9IFS	---	90	29	5,220	<u>New Mexico</u>				
WA9MRU	28	35	22	3,388	K5QQ	6	85	34	6,392
W9QWM	21	30	25	3,075	<u>New York</u>				
K9HRC	33	---	20	1,980	N2DBD	52	31	31	6,758
<u>Iowa</u>									
* WDØEWD	158	592	55	91,190	WB2TKD	---	57	29	3,306
KJØD	64	121	40	17,360	WB2OFV	---	43	24	2,064
KCØCP	---	129	35	9,030	W2KZE	---	34	23	1,564
<u>Kansas</u>					<u>North Dakota</u>				
NØCLV	51	123	36	14,364	KCØUM	---	45	23	2,070
KØYBV/M	---	10	9	180	<u>Ohio</u>				
<u>Kentucky</u>									
KC4WQ	---	50	23	2,300	W8EAO	29	---	18	1,566
<u>Louisiana</u>					<u>Oklahoma</u>				
W5WG	144	92	34	20,944	KC5TW	35	56	30	6,510
<u>Maine</u>					<u>Pennsylvania</u>				
WB1GLH	8	35	19	1,786	W3HDH	102	102	36	18,360
<u>MD-DC</u>									
K3ZZ	110	95	38	19,760	WA3HAE	11	117	38	10,146
W3FG	106	65	35	15,680	WA3JXW	17	110	33	8,943
W3ICM	1	23	17	833	KC3BO	1	16	11	385
<u>Michigan</u>					<u>South Carolina</u>				
* WB8WKQ	83	206	42	27,762	KE4VP	---	57	27	3,078
W8WVU	33	---	20	1,980	<u>South Dakota</u>				
<u>Minnesota</u>									
* WDØGPX	150	144	41	30,258	NØDYC	---	16	14	448
KSØT	87	69	34	13,566	<u>Tennessee</u>				
WB6MSC	---	129	34	8,772	NR4S	27	106	34	9,962
<u>Mississippi</u>									
* WB5GRI	---	90	34	6,120	KD4PP	11	56	27	3,915
<u>Missouri</u>									
KMØA	76	117	38	17,556	WA4JJY	32	---	16	1,536
					KA4LBD				

					15				
					11				
					330				
					<u>Texas</u>				
					KX5L				
					142				
					138				
					40				
					28,080				
					N5JB				
					59				
					194				
					42				
					23,730				
					WA5DTK				
					89				
					133				
					40				
					21,320				
					KY5N				
					83				
					135				
					36				
					18,684				
					AG5C				
					162				
					34				
					31				
					17,174				
					K5MM				
					76				
					61				
					33				
					11,550				
					N5FAQ				
					15				
					91				
					25				
					5,675				

Texas (cont.)

W5NR	68	---	23	4,692
W5PWG	66	---	23	4,554
WA5IYX	---	60	20	2,400
KA5LAQ	---	32	20	1,280
<u>Vermont</u>				
* W1JGK	56	50	31	8,308
<u>Virginia</u>				
KC4IH	---	129	36	9,288
N4MM	---	30	21	1,260
<u>Washington</u>				
WA6NHB/7	---	155	36	11,160
W7DRA	56	---	23	3,864
<u>West Virginia</u>				
* W8VEN	---	103	26	5,356
<u>Wisconsin</u>				
K9GDF	98	102	34	16,932
N9DIJ	---	35	24	1,680
W9JOX	---	33	20	1,320

Canada

Novia Scotia

VE1BNN 82 100 39 17,394

Manitoba

VE4RF 48 52 30 7,440

Saskatchewan

VE5ACY 9 47 27 3,267

British Columbia

VE7IQ 56 44 31 7,936

VE7AZV 23 40 26 3,874

England

G4HBI --- 20 13 520

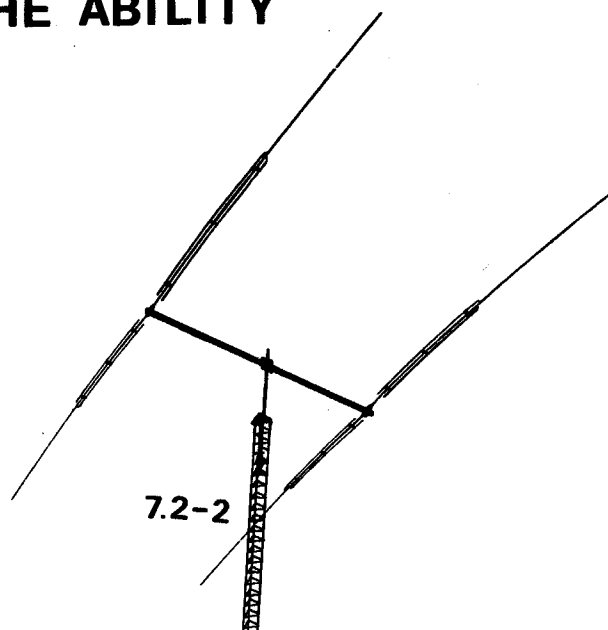
Japan

J1LOP 22 --- 14 924

JA2YKA 44 65 31 8,122

(M/S: JE2RQT,
JF2DQJ, JR2GMC
ops.)

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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ALAMEDA	W6SZN	80	232,788	1939	57	ALABAMA	KD4XR	81	32,148	342	47
ALPINE	W6XB	79	70,700	1707	50	ALASKA	AL7H	80	9,826	110	34
AMADOR	K6COF	75	136,304	1217	56	ARIZONA	K7GM	81	34,522	343	41
BUTTE	K6QQ	78	35,700	357	50	ARKANSAS	WA5DTK	79	24,012	261	46
CALAVERAS	K6RK	82	89,376	784	57	COLORADO	WB0IWL	75	9,348	123	38
COLUSA	K6HNZ	80	97,240	884	55	CONNECT.	W1GNR	81	34,892	302	39
CONTRA CO.	N6RO	80	134,064	1111	56	DELAWARE	N8NAA/3	81	10,603	136	39
DEL NORTE	W6NAT	77	36,676	346	53	FLORIDA	N4BAA	81	51,303	453	43
EL DORADO	W6TPH	79	193,820	1762	49	GEORGIA	N4NX	79	26,602	283	43
FRESNO	W6DPD	77	97,584	116	37	HAWAII	AH6BL	79	8,514	129	43
GLENN	K6HNZ	80	87,240	844	55	IDAHO	WA1PID	75	54,172	467	45
HUMBOLDT	WB6SXJ	79	139,810	1271	55	ILLINOIS	WA0AVL	82	91,616	746	48
IMPERIAL	WB6RMG	75	44,086	469	47	INDIANA	W9STW	75	13,158	153	56
INYO	WA6DZM	79	128,336	1234	52	IOWA	WD0EWD	82	91,190	750	53
KERN	W6BYH	80	53,459	441	49	KANSAS	WD0HAP	79	28,350	315	45
KINGS LAKE	K9OZL	75	17,040	213	40	KENTUCKY	WA4OMQ	79	21,216	221	48
LASSEN	K6HNZ	81	189,126	1659	57	LOUISIANA	W5WG	80	25,160	253	49
LOS ANG.	K6JKC	82	21,280	218	40	MAINE	WB1GLH	81	25,757	257	49
MADERA	W6UE	82	255,954	2064	58	MD-DC	WB3IXC	79	24,990	258	44
MARIN	N6AU	81	35,010	17	11	MASS	WB1HH	80	16,335	168	41
MARIPOSA	W6JZZ	75	389	389	45	MICHIGAN	WB8WKO	82	27,762	289	41
MENDOCINO	K6HNZ	82	199,288	1718	58	MINNESOTA	WB0GPX	82	30,258	294	41
MERCED	NA6T	82	135,945	1116	57	MISS.	WB5GRI	82	6,120	90	34
MODOC	W6TPH	82	180,612	1434	58	MISSOURI	N0RJ	78	23,220	258	45
MONO	K6XB	78	5,376	112	24	MONTANA	W7JYW	75	19,006	221	43
MONTEREY	W6SX	82	104,887	819	53	NEBRASKA	W0EKB	79	23,520	240	43
NAPA	KQ6V	81	109,497	925	57	NEVADA	WA7NIN	76	33,696	432	39
NEVADA	W6FSJ	82	53,092	426	52	NEW HAMPSHIRE	K1ITS	81	28,413	268	41
ORANGE	AI6V	82	240,062	2025	58	N. JERSEY	N2AEW	82	29,190	276	42
PLACER	W6SZN	82	181,714	1360	58	N. MEXICO	N5RR	80	15,894	173	37
PLUMAS	N6OW	81	121,275	953	55	NEW YORK	N2ALK	79	13,416	172	39
RIVERSIDE	WA6KFX	82	18,163	188	41	N. CAROLINA	WA4GLE	79	12,836	172	38
SACIO	KI6O	80	43,142	385	45	N. DAKOTA	WD0CCL	78	15,200	190	49
S. BENITO	W6JOC	81	63,350	1302	57	OHIO	AA8S	79	13,970	155	47
S. BERNAL	WB6DAW	80	42,188	398	50	OKLAHOMA	N5AFV	81	14,432	164	44
S. DIEGO	W6RDF	76	111,940	965	53	OREGON	W7CB	80	19,184	200	44
S. FRAN.	N6BV	75	232,560	2040	58	PENNA	W3HDH	81	33,096	318	42
S. JOAQ.	K6AYA	79	101,640	965	57	RHODE IS	K1JA	79	13,104	168	39
S. LOUIS	W7CB	76	221,328	1777	58	S. CAROLINA	K4BZD	78	7,722	117	33
S. MATEO	N6BV	82	270,454	2245	58	TENN	W0WUU	78	3,100	62	35
S. BARB.	W6OUL	80	165,642	1301	58	TEXAS	K4LTA	80	36,585	340	45
S. CLARA	N6BT	82	292,436	2350	57	UTAH	WA5DTK	81	46,080	403	48
S. CRUZ	N6RZ	80	276,892	2338	58	VERMONT	WA7KZP	71	2,204	76	39
SHASTA	AA6DX	79	168,376	1619	52	VIRGINIA	WA1JGK	82	8,308	106	31
SIERRA	WB6YOW	79	15,336	213	36	WASH	WA4KKP	76	47,520	540	44
SISKIYOU	K6TIL	75	6,384	133	24	W VA	N7ZZ	77	52,704	488	54
SOLANO	K6HIH	82	138,600	1072	24	WISCONSIN	W8VEN	82	5,356	103	26
SONOMA	KB6ZA	81	136,287	1194	56	WYOMING	K9GDF	81	23,049	245	39
STANIS.	W6PXG	76	32,500	325	50	MARITIMES	K3ZMI	75	27,520	20	16
SUTTER	WA6TOO	78	93,138	817	57	QUEBEC	VE1BNN	81	1,776	212	46
TEHAMA	K6HNZ	78	93,060	846	55	VE2ANE	VE2ANE	79	16,112	37	24
TRINITY	WB6NBE	81	23,520	240	49	ONTARIO	VE3DAP	79	12,768	212	38
TULARE	WA6KMW	77	14,400	200	36	MANITOBA	VE4VV	79	15,680	168	38
TUOLUMNE	N6IP	79	38,976	406	48	SASK	VE5US	75	1,407	67	21
VENTURA	N6TR	81	293,248	2373	58	ALBERTA	WB6IFA	69	20,056	218	46
YOLO	N6JV	81	88,776	724	54	BRIT. COL.	VE7DSA	77	3,174	46	23
YUBA	W6NJU	75	6,262	101	31	NWT-YUKON	NO ENTRY	81	4,125	42	33
						EUROPE	JALOP	81	2,440	61	30
						S AMER.	PYINEZ	81			

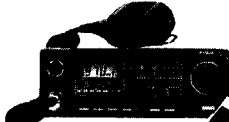


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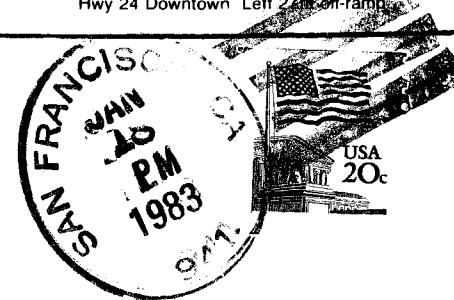
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