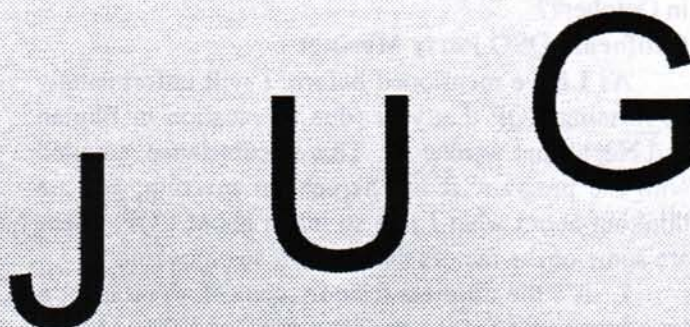


Club Repeaters W6RGG/R 147.24+, 442.200 (107.2PL)



NEXT NCCC MEETING!

DATE: October 15th
TIME: 6:30 P.M.
AT HP SANTA CLARA
DIRECTIONS BELOW!

The program will be a Sweepstakes "Pep Rally" with secrets on how to bring the gavel back to its rightful home, NCCC! The meeting will be in the cafeteria of building 50 at HP Santa Clara. (That's the "usual" HP place.) That's on Stevens Creek Road, between Lawrence Expressway and Interstate 280.

NCCC OFFICERS

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ANDY'S DANDIES

September meeting

What a surprise! The September meeting turned out to be just marvelous, not the disaster that naysayers were predicting. The supposed problem was

the location: at the Old Spaghetti Factory in Jack London Square in OAKLAND. What's the matter with Oakland, you might ask? Well, on September 8th, the problem was a double whammy: the BART strike which had absolutely paralyzed traffic that morning, PLUS the Oakland Raiders Monday night home game at the Coliseum. Now maybe we should have foreseen the football game (though please tell me why the Raiders, once the darlings of NFL Monday Night Football, deserve to be on it at all these days), but the BART strike surely was an Act of God, as we lawyers say.

But here's the surprise: there was no traffic problem at all! I carpooned with Tom, N6BT, and Garry, NI6T, and we left my office in downtown San Jose at 5:00 p.m. for the 6:30 social hour. Cowards that we were, we took the long route, up 680 to 580, rather than the shorter but presumably more crowded 880. Amazingly, we had zero traffic problems, and arrived at 6:15. Perhaps more amazingly, Bob, N6TV, who carpooned up 880 with Bonnie Schiller and Ed, W0YK, also arrived on time. The real hard luck story was Kit's, W6ISO, who went from Redwood City to Oakland via the Bay Bridge and ended up smack in the horrendous traffic jams that we all read about.

Anyway, the restaurant, which had been scouted out and arranged by Kenny, K2KW, was a delightful meeting site, with a pleasant meeting room (that could hold 150 people), very good food at a very reasonable price, and even a cash bar.

The meeting itself was a great success. We inducted three new members and had an entertaining program about CQP - details elsewhere in the JUG. It just shows to go ya - it's more fun to go through life pleased that the glass is half full than worrying that it's half empty.

We're having a lot of fun at meetings this year. If you're not attending, you're missing out. How about supporting your club officers and BOD, who are

working very hard this year to move the meetings around and to arrange entertaining programs? See you in October??

California QSO Party Musings

As I have mentioned before, I will unfortunately be missing CQP this year (due to vacation in Bhutan and Nepal that weekend). This circumstance, coupled with the program at the September meeting, got me thinking about what I like so much about CQP. Here are some of the factors that make it so enjoyable:

1. It's the ultimate friendly contest. You meet a lot of the same faces year after year, and they always give you a friendly greeting. Furthermore, because you can work the same guys on different bands and modes, you can chat several times during the contest. It's very easy to compare notes with locals to see how everyone is doing, and the rates aren't so high that you feel bad about chatting for a moment.

2. There's lots of activity, but not so much that you get into frequency fights or are afraid to check another band/mode for fear of losing a choice run frequency. There's absolutely none of the cut-throat behavior so prevalent in, say, CQ WW.

3. Hey, it's fun to be wanted. This is one of the very few times in a year that we lowly 6's can get pileups. People out there really want to work us. Even non-contesters will queue up if you act friendly. For example, in 1994, I received QSO number one from over 100 stations!

4. Finally, it's a great event for low in the sunspot cycle. Although we miss the seemingly endless supply of KB4's and WB8's that flock to ten meters in sunspottier times, we can profitably use 40, 80 and even 160 and 2 to keep the rate up, and can have fun switching back and forth to keep foraging for new ones. Here's a pome about CQP:

Ode to CQP

The friendliest party in town,
The contest of worldwide renown,
The fall season's best,
THE CQP TEST,
Is UP when the sunspots are DOWN!

So, don't forget to get on October 4th and 5th for CQP, starting at 0900 local time on Saturday. You can print out full rules and answers to FAQ's right off our own web site, at <http://www.contesting.com/CQP>. BTW: that web site just keeps getting better and better. Dave, N6NZ, is going bananas with new improvements and upgrades, including the on-line JUG. You gotta see it to believe it. For those who want hard copy, rules, a sample log sheet, and a summary sheet are in this JUG!

Sweepstakes

We took SS pledges at the last meeting. If the rest of the Club does as well as the attendees promised to do, we'll have no trouble icing PVRC. I pledged a KB-2000 (i.e., to get over 2000 qso's both modes combined, something I've never actually done in SS. It's the equivalent of something over 300k points for the Club). Last year, I operated low power and, due to work commitments, couldn't mount a major effort either mode. This year I'm gonna clear the calendar come hell or high water, and go high power. Unless the tower is cut down by angry neighbors, 2000 q's should be reachable.

There were many other comparable pledges, and Ken, N6RO, pledged 500 kilopoints!! What can YOU do? We need everyone's logs to win this year. Let's go all out to win it all back for the Club.

SS Handbook

It's official. The new, updated, third edition NCCC SS handbook is done, thanks to a monumental effort by Bob, K6XX, with help from a number of us kibitzers. You can download it in living color from his web site: <http://www.jps.net/K6XX>. Remember, the pdf file is password-protected. The confidential password is on September's JUG mailing label. Don't reveal either the password or the contents of the handbook to non-Club members on pain of an attack by vengeful rettysnitches! A limited number of hard copies are available. Contact me by e-mail, phone or packet, and I'll be happy to send you one. If this doesn't get you stoked up to go all out in SS, nothing will!

73, andy

NEAT STUFF AVAILABLE!

As part of an irregular service to NCCC members, we offer the following components (no, they're not just components, they're downright *goodies!*) which will be of considerable interest to amplifier builders.

Tubes: (data sheets are available)

3 - 1000Z Zero Bias Triode (one available)

3 - 500Z (We all know what they are! Here's your chance to get a pair and a spare!)

4 - 125A (Glow - in - the - dark tetrode: one available)

4 - 65A (A smaller version: one available)

4X150A (Non - glowing tetrode: good at VHF! several available)

Vacuum Variable Capacitors:

Various values with maximum capacitance from 250 to 1000 pf; working voltages 5kV to 20kV

If you are interested in purchasing, or have questions about any of these items, please call George, K6GT, at (408) 732-2676.

THE SS HANDBOOK

I am too shy to write about how wonderful it is, of course, but it would be great to get some publicity for the stupid (?? *No way, Bob!! It's "awesome" as the kids would say!... ed.*) Handbook. Features are:

* Available now on JZAP & K6XX web sites:

<http://www.jzap.com/nccc>
and

<http://www.jps.net/k6xx/sshb.htm>

(a password is required--your password was on the September JUG's mailing label)

* 48 Pages of "all you need to know to KB in SS"

* Now in color (whoopee?)

* Also available (hard copy) from Andy, AE6Y, if you don't have internet access

* Contents:

SS and Advanced Operating Techniques
Station Equipment and accessories (antennas, computers, station layout, etc.)

NCCC's SS success and competition

Rules, forms, band planning, etc.

Plus the usual "miscellaneous"

73 de Bob, K6XX

Muns' Meeting Minutes

The September meeting took place at yet another new location, this time in the East Bay at The Old Spaghetti Factory in Jack London Square. Twenty-eight people attended--26 members, 2 new members and two guests! Jon Utley, K7CO, and his father, Dennis, AF7Y, were voted into membership. Congratulations and welcome Jon and Dennis! The club also voted Bonnie Schiller (she hangs around with Tom Schiller, N6BT) into "Provisional Membership," probably a first for the club. Bonnie has certainly demonstrated both an interest and participation in contesting particularly in contest expeditions. She is pursuing a license, so the August meeting attendees accepted her NCCC application contingent on her successfully obtaining her Ham Radio license. Good luck, Bonnie!

President Andy took the following SS pledges from those present: N6RO-500K, AE6Y-KB2000, K6AW-KB2000, K6GT-100K each mode, K6WG-KB1000, KM6F-800 QSOs, K2KW-1500 QSOs, N6BT-1501 QSOs(!), N6TV-300K, NH7A-KB1000, NI6T-KB2000, W0YK-KB2000, W6WG-200K, W6EI-200K SSB and "the best I can on CW" (that's

the spirit!!), AI6V-KB2000, W6ISO-100K SSB, W6BSY-KB2000, N6UUG-200K, K6WG-KB1000, and W6PLJ-KB1000.

ARRL Sweepstakes is our number one priority this year and we want to win the gavel back for top club in the unlimited club category. To do this, every member needs to operate as much as possible on each weekend. The winning club makes it mostly on the widespread participation of its members, not just the top scores of the big guns. Two small SS efforts can net as many points as a big gun who makes the Top Ten. If you want to operate, but need a station, contact N6TV. Similarly, if you have a station you won't be using (?) contact N6TV.

For the main program, we exchanged CQP strategies and hints through a panel discussion, with Andy-AE6Y on low power, Tom-N6BT on county expeditions, Garry-NI6T on guest operating in a rare county and Bob-N6TV on big gun rate.

Andy noted that on low power he can start out at 70/hour and average 55/hour for the 24 hour period. This compares to 90-100/hour for a big gun high power station. With low power, you have to carefully select your CQ frequency and be prepared to move as needed to keep in the clear. Since CW QSOs count 3 points vs. 2 for SSB, a good balance is to work about 70% phone; the point is to maximize your score.

Garry's primary advice in guest operating is to bring your own spares, both equipment and parts. He has done much refurbishing and repairing of stations where he has operated. Don't make assumptions about what is there, because it is often too remote to get replacements.

Tom shared some of his experiences in doing county expeditions, including the one where they were actually Multi-multi-2 transmitter MOBILE with a 2 element beam!! Carefully pick your spot or path so that there is gas, a hotel and restaurants nearby. Drive to the most remote point on your itinerary the night before and stay in a hotel to get a good rest. Then begin your trip back home as you operate the contest. Treat yourself to some good restaurant experiences along the way. Stick to the same operating frequencies so people can find you as you change counties, and always remember to start a new log in each county with serial number 1. Finally, don't forget that your laptop computer may need more cooling (such as a fan) than your normal radio equipment and a sun shield may be needed to make the screen legible. Always be prepared for "unfriendly people" since you may be remote from common civilization at times. It is always prudent to call the Sheriff's office to let them know the particulars about what you are doing.

General tips included pointing your beams at 70 degrees (Washington DC) most of the time, turning them for directional CQs on multipliers you need toward the end. Think about making your CQ as attractive as possible to as many listeners as you can, including non-contesters. Refer to the contest as the "California QSO Party" rather than a "contest" when CQing. Use your county name when signing your call if it is even slightly rare. Be polite but expedient when trying to move away from rag chewers by talking them through the exchange and thanking them profusely before moving on to your next QSO. High power stations will want to CQ most of the time, and everyone should develop a "begging" technique on phone to draw out QSOs from the casual listener who generally wouldn't jump into a contest. Make it fun for the listener ... and, for yourself!

Thanks to Kenny, K2KW, for making the meeting arrangements. The October meeting will return to the familiar HP Santa Clara site on WEDNESDAY, 15 October. Please note the day change.

73, w0yk

LETTER TO THE EDITOR

Dear NCCC Club members,

For the past five or six years I have been doing the certificates for CQP and have done mailings, both for the fall and spring. I wish to move on to do other

things and I am looking for a volunteer to take over the CQP duties I have been doing in the past. If you feel like you would like to help the club run a really KB contest, please see me during a meeting, send me e-mail (jholly@cup.hp.com) or give me a call (at work 408-447-0725, or at home 408-258-0128)

Thanks! and 73,
Jim Hollenback, WA6SDM

CONTEST CALENDAR

Oct 4-5 California QSO Party

Oct 25-26 CQ World-Wide Phone

Nov 1-2 ARRL Sweepstakes, CW

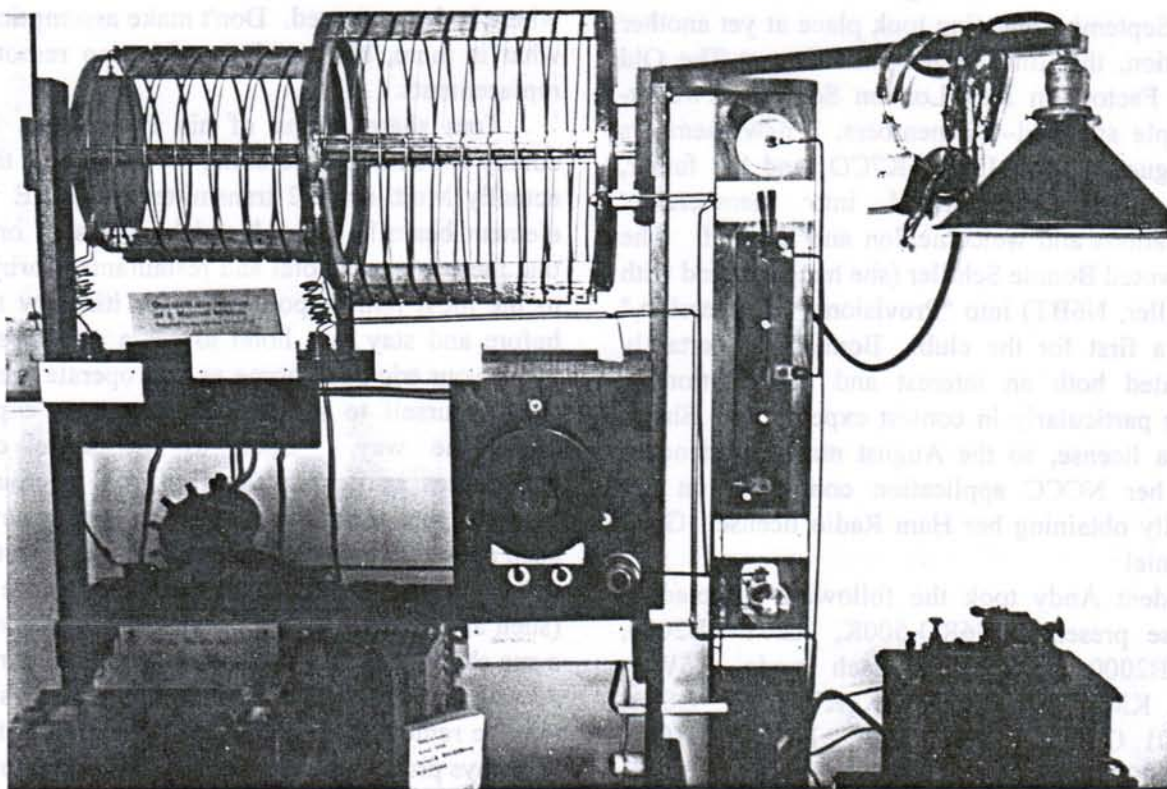
Nov 15-16 ARRL Sweepstakes, Phone

Nov 29-30 CQ World-Wide CW

Dec 5-7 ARRL 160 meter

Dec 13-14 ARRL 10 meter

Whatever rig you've got, prepare to fire it up for SS! We want to bring the gavel home! The photo below shows a copy of Marconi's original spark-gap transmitter which was used to send the first transatlantic radio message. Surely each NCCC member can come up with a rig at least this good!



Look at the happy faces on the NCCC members below! The NCCC sponsored the "World Radiosport Team Championship" last summer. On the left, Rusty, W6OAT, who is also a board member of the NCDXF, accepts a check from Dave, W6NL, who was the chief financial officer of WRTC. The check is to return some of NCDXF's advance to WRTC. These guys can now concentrate on SS, and help return the gavel to NCCC. When that happens, we'll ALL have grins like this, even if we don't get a check!



5 MEG!

The Five Million Point Award Program

The 5 Million Point award has generated a lot of interest since it started in July '86. From time to time, the rules and standings will be published in the JUG. Any questions about the rules, or of any points totals should be addressed to the VPCC and/or AD6E.

PURPOSE:

This award is intended to give recognition for sustained efforts by NCCC members. All too often club members compete with moderate stations, year-in and year-out without a reasonable chance actually to win a contest or major awards. The Five Million Point Award is designed to help rectify this situation. This award will be issued on a once-per-person basis.

HOW TO ENTER:

Send a copy of the Summary Sheet (which you submit to the contest sponsors,) to the VPCC, N6TV. In the case of contests which we are entering as a club, two summary sheets should be submitted, one for the club entry and a second marked "Five Million Point Award," or simply "5Meg."

RULES:

1. This award requires the accumulation of a total of five million points.
2. Point totals shall be accrued by the VPCC from copies of Summary Sheets in which the contestant has submitted a valid contest entry.
3. Any contest entry may be used for submission as long as the entrant is competing from within NCCC territory.
4. It is *not* necessary for the NCCC to be participating as a club for your point totals to count towards this award.

5. Participation with a Multi/Multi or Multi/Single station can count for this award. To calculate your portion for this award, divide the total score by total number of operators. Submit a copy of the summary sheet claiming that portion of the effort.

The following club members have already achieved this worthy goal!

K6HNZ	W6RGG	W6BSY	W6NL	N7TR	N6TIB	N6NT	AE6Y
N6RO	KI6CG	AG6D	NF6S	N5KO	W1FEA	N6KT	W6ISQ
N6EK	K6XX	WX6M	K6AW	WA6VEF	W6EU	W6BIP	AJ6V
NU6S	K6TMB	W6OAT	KI6EZ	WZ6Z	AD6E	K6KR	W6REC
N6IG	N6CCL	NI6T	K6MA	N6TV	W6FSJ	W6CT	KS6H

The new contest season is upon us. Sunspots are becoming active! Check out your score totals shown below and get on the air! Who will be the next to get the coveted 5 Meg Award?

These are the present score totals as of 9/20/97:

VE7NKI	4,845,542	KT6RA	1,556,882	N7STU	372,974	KD6NOS	107,296
AI6V	4,775,740	AA6QY	1,534,284	KJ6LD	358,745	N2ALE	104,793
WB6MZQ	4,455,479	AB6WM	1,496,720	W6ISO	358,666	NG6X	82,218
K6PU	4,339,044	KE6ZE	1,492,039	N6RA	342,580	W6DPD	70,112
K6GT	4,159,315	K6KM	1,315,233	W6SUN	336,616	KG6I	57,499
N6DA	3,963,270	N6ST	1,250,472	N7TN	329,937	WB6IRC	55,900
K6BZ	3,900,717	K6UM	1,223,282	N6WFK	325,192	AA6TY	55,310
K2KW	3,762,897	WX6V	1,166,589	AA6YX	303,923	W6PGM	46,360
WA6SDM	3,666,789	KD6WKX	1,061,916	K7YNO	303,625	KB6BD	46,150
N6GG	3,465,656	W0YK	1,055,432	N6WCW	293,816	WB6ITM	44,096
N6ZM	3,431,467	KG6GF	1,029,947	K6WJ	282,384	N6ZPX	39,800
AA6PG	3,398,376	KA6ING	964,603	N0BBS	274,213	WE6F	38,182
K3EST	3,350,841	W6FAH	916,096	W6CF	260,188	KV6S	35,640
AE0M	3,349,908	AC6CI	903,992	N6VV	255,504	W6KZJ	32,980
W7DR	3,177,431	KD6KKP	789,813	N6PN	249,476	N6IFW	30,028
W0ZZ	3,042,893	AC6DQ	778,499	KN6K	245,797	K6YT	28,905
WC6H	3,033,416	W7BX	778,291	NP4IW	239,872	NC7K	27,600
K6BL	2,913,819	K4TKM	764,885	N1CS	237,236	AJ6T	27,191
K2MM	2,871,643	W6OSP	736,289	K6MO	231,206	KN6QT	25,840
AH7G	2,731,189	KN6SO	712,840	AC6NS	216,974	N6JT	25,608
K4UVT	2,723,886	WA6CTA	687,219	WW6D	213,074	WA0YQM	24,680
W6EEN	2,541,236	AA6MV	669,690	KM6OH	205,239	KC6ESL	23,800
K6SIK	2,257,137	WV6U	666,029	K6ANP	197,890	W6SYL	21,351
N6EE	2,205,211	AB6EQ	617,136	N6TNW	189,989	W6YM	16,688
N6BT	2,197,484	W6VG	599,301	N6TNX	188,321	N6OJ	11,562
W6SZN	2,085,426	K6RK	513,307	KN6BD	177,694	N7NG	11,310
KF6VU	1,951,774	W6PLJ	506,872	WB6DSV	154,692	N6IPE	9,240
WB6CJE	1,891,679	KD6UO	473,396	N6UUG	145,892	NV6O	9,160
K6HIH	1,859,386	AF6S	464,500	N6NZ	140,316	KD6ZMJ	4,514
N6ZB	1,691,898	W6WB	462,766	N6JV	139,987	N6TPT	4,230
NT6K	1,679,188	AB6ZV	444,878	K6XV	127,768	KO6IG	4,135
W6XX	1,667,207	N6JL	415,044	W7TO	124,616	KM6F	3,039
K6LRN	1,638,943	KA6W	407,609	N6GRJ	124,202		
W6RJ	1,576,455	K6BPB	394,118	NB6G	116,200		
K6UM	1,568,969	N6OM	393,428	W6GPM	107,416		

1997 California QSO Party (CQP)

Sponsored by the Northern California Contest Club

Begins: 1600 UTC - 4 October 1997

Ends: 2200 UTC - 5 October 1997

- OBJECT:** Stations outside of California work as many California stations in as many CA counties as possible. Stations in California work anyone.
- EXCHANGE:** California stations send QSO number and county. Stations outside of California send QSO number and State, Province, or Country.
- QSO POINTS:** Each complete non-duplicate Phone contact is worth 2 points. Each complete non-duplicate CW contact is worth 3 points. No partial contact credit. Duplicate contacts must be clearly identified in log.
- MULTIPLIERS:** California stations count states (50) and Canadian Provinces (VO/VE1-7 and VY1/VE8) for a possible total of 58. All others use California counties for a maximum of 58. CA stations on a county line may be claimed as a multiplier for any or all of the counties they give in their exchange. Number each multiplier as worked.
- SCORE:** The total score is the total number of QSO points multiplied by the total number of multipliers (58 maximum).
- FREQUENCIES:** 160, 80, 40, 20, 15, 10, 6, and 2 Meters. WARC band contacts do not count. Suggest CW on 1805 and 40 kHz up from band edge. Phone on 1815, 3850, 7230, 14250, 21300, and 28450 KHz. Novices 10 kHz up from band edge and 28450.
● Try CW on the half hour.
● Try 160 meters at 0500 UTC; 80/75 meters at 0300 and 0700 UTC.
● Try 147.54 MHz at 2000, 0000, and 0400 UTC.
- CLASS ENTRY:** Single Operator, Multi-Single, Multi-Multi, California County Expedition, Mobile, and Novice/Tech.
● Single Operator entries are limited to 24 hours maximum; off times must be clearly marked in the log and be a minimum of 15 minutes
● Multi-Operator entries may operate the full 30 hours.
● Multi-Single entries must work only one band/mode for at least 10 minutes before changing band or mode.
● Stations may be worked once on CW and once on phone per band.
● Single Operator and Multi-Single entries are allowed only one transmitting signal.
● All CW contacts must be made outside the Phone sub-bands except for 160 meters. MCW is not permitted.
● All contacts must be simplex.
● California stations that change counties are considered to be a new station and may be contacted again for point and multiplier credit.
● California stations operating on a county line may be counted as only one QSO.
● Mobile is a station that is self-contained, capable of legal motion (street, water, or air) while operating, motion optional.
● A County Expedition is an operation from a temporary location using temporary antennas installed for the contest period, using temporary antenna supports (natural supports like trees permitted).
- ENTRIES:** Entries must be submitted no later than November 15. Entries of 200 or more QSOs must include duplicate check lists.
Logs may be submitted via postal mail to: **NCCC, c/o Al Maenchen, AD6E, 3330 Farthing Way, San Jose, CA 95132.** Entries may be submitted in *CT Version 8 or 9 format* with .BIN, .SUM, and .ALL files on 5¼ or 3½ diskettes (no 2.88M diskettes) with a *signed* hard copy summary sheet. Label each diskette with call entry category and state/county/province/country. Electronic logs may also be submitted by E-mail to cqp@contesting.com. Electronic logs should be named with your call (e.g., WA6SDM.SUM, WA6SDM.LOG, etc.), and preferably all files zipped into a single file such as WA6SDM.ZIP.
A \$1.00 donation to help defray costs of printing and postage is encouraged. For a CQP paperwork package containing log and summary sheets, county abbreviations, and contest records, send a business size SASE to Jim Hollenback, WA6SDM, 1799 Westhaven Dr., San Jose, CA. 95132. For a copy of the two member supported IBM contest logging programs for CQP, send \$1 for postage and diskette to WA6SDM. A Macintosh program is also available commercially. Check out the new CQP Web Site, www.contesting.com/cqp, for details.
- AWARDS:**
- | | |
|------------------------|--|
| T-shirts | Entries with 100 or more QSOs qualify for the special CQP T-shirt; Please include your size (M/L/XL/XXL) and \$10 if you qualify and would like this special award. Like the wine, each year is a special vintage. |
| Certificates | To top Single Operator entry in each CA county, state, province, country, and stations with 100 or more QSOs. |
| Plaques | To top three non-CA Single Operator entries, top three CA Single Operator, top CA Multi-Single, top CA Multi-Multi, top Single, Multi-Single, and Multi-Multi CA County expeditions, and the Mobile Single Operator and Multi Operator with the most QSOs. |
| Special CQP Wine Award | The top 20 CA and top 20 non-CA Single Operator stations will receive a personalized bottle of NCCC Private Reserve California Wine. Winners under the age of 21 will receive a nonalcoholic personalized award. |
| Special Awards | To the CA and non-CA Single Operators with the most QSOs, the most CW QSOs, the most Phone QSOs, to the top three CA and non-CA Single Operator low power entries (200 watts or less output), to the top CA and non-CA Single Operator Novice/Technician entries, to the top scorer outside of the USA and Canada, and to the top club in California (5 entries minimum—NCCC and SCCC are ineligible). |

CALIFORNIA QSO PARTY

LOG SHEET _____ OF _____

CALLSIGN _____

*STATE/PROV/COUNTY _____

BAND	TIME UTC	STATION	SENT	RECEIVED		NEW MULT	POINTS
			NR + *	NR	QTH		
			1				
			2				
			3				
			4				
			5				
			6				
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			0				

Call _____ County/State/Province/Country _____

QSO s

BAND	CW	PHONE	
160			
80			
40			
20			
15			
10			
6			
2			
TOTAL			TOTAL
MODE QSOs			COMBINED
			QSOs

CLASS (check all that apply)

- Single Operator
- Multi-Single
- Multi-Multi
- California County Expedition
- Mobile
- Novice/Technician

Operator(s) _____

Power level _____
 Club Competition(5 logs minimum)

MODE QSO POINTS	X3	X2

TOTAL POINTS

TOTAL MULTIPLIER X _____ Maximum 58

FINAL SCORE = _____

Name _____

Mailing Address: _____

Tel # _____

Age _____

Signature _____ Date _____

\$10 Enclosed for CQP T-shirt and results

T-shirt size: M L XL XXL

\$1 Enclosed for copy of results

California Counties and their Abbreviations
 (Non-CA stations please check off counties as worked and submit with your log)

Alameda	Aia	Mann	Marn	San Mateo	SM
Alpine	Alp	Mariposa	Marp	Santa Barbara	SBar
Amador	Ama	Mendocino	Mend	Santa Clara	SCla
Butte	Butt	Merced	Mer	Santa Cruz	SCrz
Calaveras	Cala	Modoc	Modo	Shasta	Shas
Colusa	Col	Mono	Mono	Sierra	Sie
Contra Costa	CCos	Monterey	Mont	Siskiyou	Sisk
Del Norte	DelN	Napa	Napa	Solano	Sol
El Dorado	Eld	Nevada	Nev	Sonoma	Son
Fresno	Fres	Orange	Org	Stanislaus	Stan
Glenn	Glenn	Placer	Pla	Sutter	Sut
Humboldt	Humb	Plumas	Plu	Tehama	Teh
Imperial	Imp	Riverside	Riv	Tinity	Tnn
Inyo	Inyo	Sacramento	Sac	Tulare	Tul
Kern	Kern	San Benito	SBen	Tuolumne	Tuol
Kings	King	San Bernardino	SBer	Ventura	Vent
Lake	Lake	San Diego	SDgo	Yolo	Yolo
Lassen	Las	San Francisco	SF	Yuba	Yuba
Los Angeles	LAX	San Joaquin	SJoa		
Madera	Mad	San Luis Obispo	SLO		

Multiplier Abbreviations for California Entries
 (CA Stations - Please check off multipliers worked and submit with your log)

Alabama	AL	Massachusetts	MA	South Dakota	SD
Alaska	AK	Michigan	MI	Tennessee	TN
Arizona	AZ	Minnesota	MN	Texas	TX
Arkansas	AR	Mississippi	MS	Utah	UT
California	CA	Missouri	MO	Vermont	VT
Colorado	CO	Montana	MT	Virginia	VA
Connecticut	CT	Nebraska	NE	Washington	WA
Delaware	DE	Nevada	NV	West Virginia	WV
Florida	FL	New Hampshire	NH	Wisconsin	WI
Georgia	GA	New Jersey	NJ	Wyoming	WY
Hawaii	HI	New Mexico	NM	VO-VE1	
Idaho	ID	New York	NY	Maritime	MAR
Illinois	IL	North Carolina	NC	Quebec	Que
Indiana	IN	North Dakota	ND	Ontario	ONT
Iowa	IA	Ohio	OH	Manitoba	MAN
Kansas	KS	Oklahoma	OK	Saskatchewan	SK
Kentucky	KY	Oregon	OR	Alberta	ALTA
Louisiana	LA	Pennsylvania	PA	British Col.	BC
Maine	ME	Rhode Island	RI	NWT/Yukon	NWT/Yuk
Maryland/DC	MDC	South Carolina	SC		

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