

NEXT NCCC MEETING
DATE: Monday, October 12
South Beach Yacht Club
INFO & DIRECTIONS INSIDE

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| | |
|------------------------------|--------------|
| RSGB 21/28 MHz, CW | Oct 18 |
| Illinois QSO Party | Oct 18-19 |
| CQ Worldwide DX Contest, SSB | Oct 24-25 |
| 10-10 International, CW | Oct 31-Nov 1 |
| BARTG RTTY Sprint | Oct 31-Nov 1 |
| ARRL Sweepstakes, CW | Nov 7-9 |
| ARRL Sweepstakes , Phone | Nov 21-23 |
| CQ Worldwide DX Contest, CW | Nov 28-29 |
| ARRL 160-Meter Contest | Dec 4-6 |
| ARRL 10-Meter Contest | Dec 12-13 |

de K6AW

It's not long now until SS, so if you haven't checked out your station in a while, now is the time to do it. There's nothing worse than discovering a radio, antenna switch or computer interface doesn't work in the middle of a good EU run on 15m.

Dean Straw, N6BV has cooked up some great propagation information for CQWW SSB and CW this year. This should be very useful for all of us, especially in figuring out those long path openings we might otherwise overlook. Details are elsewhere in this issue of the JUG – thanks, Dean!

NCCC had a very nice turnout for the CW Sprint. There were some first time Sprinters, all of whom did very well. If you're interested in learning more about the Sprint, I have a video of N6TV operating a CW Sprint a few years ago – contact me if you would like to borrow it.

N5KO, W6OTC, and I are headed to HC8 to do antenna work and then operate in the CQWW RTTY contest the last week in September. Thanks to JT, K7CO, our VP/CC, for taking over the September meeting, and to Andy, AE6Y, for writing a guest column. See you on the radio in the RTTY contest, and in CQP from N6O!

73, Steve, K6AW

Contest Calendar

| | |
|--------------------------|-----------|
| California QSO Party | Oct 3-4 |
| VK/ZL/Oceania, Phone | Oct 3-4 |
| EU Autumn Sprint, SSB | Oct 3 |
| RSGB 21/28 MHz, SSB | Oct 4 |
| Internet RTTY Sprint | Oct 8 |
| VK/ZL/Oceania, CW | Oct 10-11 |
| EU Autumn Sprint | Oct 10 |
| Pennsylvania QSO Party | Oct 10-11 |
| Iberoamericano Contest | Oct 10-11 |
| JARTS WW RTTY | Oct 17-18 |
| Asia-Pacific Sprint (CW) | Oct 17 |
| Worked All Germany | Oct 17-18 |
| Honor Sprint #1, CW | Oct 18 |

JT's Corner

With band conditions getting better every day, this will be one contest season I will not soon forget. By the time you read this JUG the CQP will be history. I hope you enjoyed it. I encourage you all to write up your CQP experiences this year and send them to George, K6GT, our JUG editor. The next contest the club will be focusing on is Sweepstakes. We had a good turn out for Sweeps last year but I feel that we can do better. We have over 200 members in the club. I would like to see at least 150 logs turned in. If we can reach that number we can again claim the sweepstakes gavel. A total of 150 logs requires 75 logs for each mode. One thing that I would request club members NOT do this year is multiop. This limits the number of logs turned in. If you don't have a station for sweepstakes, there are many in the area that are available. Feel free to contact me or Tony Becker, AE0M. Tony coordinated stations for WRTC-96, and from what I hear there are many stations available for guest operation.

73 es gl in CQP & SS. de K7CO, JT

**GET A GRIP ON IT!
(THE GAVEL!)**

Andy's Guest Dandies

Steve asked me to write a guest column this month, since he's away enjoying life in HC8, so once again I have the privilege of addressing my faithful reader (assuming that the one faithful reader I had last year is still keeping the faith. [*I'm here, Andy!... ed.*])

California QSO Party Musings

Last year I unfortunately had to miss CQP, due to a trip to Bhutan, Nepal, and Tibet at that time. In lieu of participating, I wrote some thoughts about why CQP is such a fun contest. I'm taking the liberty of reprinting them here, in the hopes that someone reading this before **the contest starts at 9 AM, Saturday, Oct. 3rd** will get inspired. 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 we can have fun switching back and forth to keep foraging for new ones. [That was last year - maybe conditions will have improved this year, as the sunspots generally seem to be more cooperative than a year ago].

Here's a pome about CQP [modified from last year's pome]:

Ode to CQP

The friendliest party we've found,
The one where champions are crowned,
The fall season's best,
THE CQP TEST,
Is always the top show around.

So, don't forget to get on October 3rd and 4th 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.cqp.org>

BTW, this year I will be entering CQP as usual. Although I'm leaving for 5H land on October 6th and normally would be packing that last weekend, I'm going to make a heroic effort to get all my trip preparations done ahead of time to keep the CQP weekend clear.

In honor of CQP, our new webmeister Ed Muns, W0YK, has put version 6.0 of CQPWIN on the web site. For users of my software, it has some notable improvements over last year's version, including dupe-checking as you type, an immediate keyboard CW mode, and coverage of Sprint (more on that below).

Sweepstakes

I hope that JT's column will be exhorting you on to SS success. Last year, as everyone knows, we came in second to PVRC, which put in an absolutely heroic effort. Hey, **all we need is more participation**. Our average log is 20k points or so better than theirs, but they did a better job of beating the bushes for participation. Let's see what we can do this time!

Sprint

Yes, after years of resisting Scott, W6CT's, nagging and threats, I finally succumbed and entered the CW Sprint in September. To put it mildly, I had a

1998 CQWW PROPAGATION PREDICTION

We seem to be ramping up Solar Cycle 23 nicely, after a rather slow start. The daily solar flux numbers have been hovering in the 140 to 150 range lately. I am using an optimistic value of Smoothed Sunspot Number = 85 ("High" level) for this contesting season's propagation tables for the October and November CQWW contests.

The condensed (single page) tables list predicted signal strengths in S-units. I have divided the world up into seven geographic areas, as follows:

- EU = Europe; zones 14, 15, 16 and 20
- FE = Far East; zones 19, 24, 25, 26 and 28
- SA = Central/South America/Caribbean;
zones 7, 8, 9, 10, 11, 12 and 13
- AF = Africa; zones 33, 34, 35, 36, 37, 38 and 39
- AS = Central and South Asia; zones 17, 18, 21,
22 and 23
- OC = Oceania; zones 27, 29, 30, 31 and 32
- NA = North America; zones 1, 2, 3, 4, 5 and 6.

My predictions were done using the computer program IONCAP, and they assume undisturbed geomagnetic conditions. The antennas used at each end of all circuits represent typical good-sized contest stations: 100-foot high dipoles on 80 and 40 meters, a 3-element Yagi at 100 feet on 20 meters, and 4-element Yagis at 60 feet for 15 and 10 meters. The transmitter power at each end of the circuit is assumed to be 1500 W. I am assuming that an S-meter is relatively generous, at 4 dB/S-unit. Scale the results for different types of antennas or transmitting power levels according to the following rules of thumb:

Subtract 2 S units for a dipole instead of a Yagi at the same height

Subtract 3 S units for a dipole at 50 feet instead of a Yagi at 100 feet

Subtract 1 S unit for a dipole at 50 feet instead of a dipole at 100 feet

Subtract 3 S units for 100 W instead of 1500 W

Subtract 6 S units for 5 W instead of 1500 W

For example, the prediction for the CQWW Phone contest from San Francisco to Oceania on 20 meters at 12 UTC is for S8 signals at the DX station from a W6 with 1500 W and a 3-element Yagi at 100 feet. If our station were using 100 W and a dipole at 50 feet, the level would fall to: S8 - S3 (dipole at 50 feet) - S3 (100 W) = S2 at the receiving site.

ball. Once you get into the rhythm of it and get used to the QSY rule (if someone answers your CQ, you work them, then you have to QSY after the QSO), it really can be fun. Thanks to N6TR's inspirational talk at our August meeting and to N6TV, who showed me a video that K6AW had taken of Bob operating in the 1994 contest, I finally felt that it was a doable endeavor. But since I don't want to use TR-Log, which seems to be the hot Sprint setup, I spent a good week modifying CQPWIN to handle sprint. My program had always differentiated between CQ and search & pounce modes and allowed for separate exchanges to be sent for each mode (which is a requirement for Sprint), so the fit was fairly natural. This was also helped by the fact that the 58 multipliers for sprint are the same as for CQP (well, in theory, all North American countries count as mults, but I didn't work any other than U.S. and Canada, and I'm not sure that anyone else did either this time). I joined NCCC team #2, so as not to be too intimidated by the big boys. I'd encourage anyone to try it out. It really isn't as hard as it's cracked up to be (assuming your goal isn't to compete with N6TV, K7RAT, K4AAA and the other pros), and it's possible to have a lot of fun while getting some experience and skill enhancement from the plethora of terrific operators that join in.

CU all in CQP!

73, andy, AE6Y

Treasurer's Report

Year to date (Sept. 25, 1998)

| | Budget | To Date |
|---------------|-----------|---------|
| Dues | \$4,410 | \$3,376 |
| Advertisement | \$300 | 0 |
| CQP | (\$610) | (\$449) |
| JUG | (\$3,300) | (\$579) |
| Awards | (\$600) | (\$77) |
| Self Funding | \$0 | (\$16) |
| Misc. | (\$300) | (\$18) |
| Visalia | (\$200) | 0 |

NCCC funds: \$5,952.44
 including (\$152.00) cash.
 Repeater Fund: \$1,157.65
 Bank balance: \$6,958.09

ARE YOUR DUES OVERDUE?

Look at your mailing label. If the expiration date is highlighted in PINK, then your dues are WAY OVERDUE! If you don't renew (the form on the last page is provided for your convenience) then this is your last JUG!

There are two pages included in this JUG, one for October, and one for November.

Observations:

Conditions on 10 meters should be lots of fun this year, with Europeans available by direct path, barring any solar flares. Also watch for the openings into Oceania late in the afternoon and of course JAs after about 2200 UTC. There will be some nice multipliers in Oceania but the pileups will no doubt be horrendous, just as they will be for the Africans coming through in the morning and early afternoon. Expect to be weaker than the East Coast into Africa, but not by that much during our midmorning opening.

The 15 meter band will be very important for multipliers and QSOs this year. The European runs should be hot and heavy, better than they have been for the last few years. IONCAP predicts that signals will be S9 from 15 to 20 UTC -- five hours for us in California in October and just slightly less in November! If you are running Europeans, you should occasionally ask them to stand by for any African stations that might be in the pileup. There might also be a stray long-path VU or HS hiding out in the pileup also -- keep an antenna pointed down over South America for such eventualities, if you have one. Such an antenna would also be great for scanning the band for loud South Americans every hour or so. JAs will pop open the 15-meter band at about 2000 UTC in October (2100 UTC in November), with S9 signals until about 0300 UTC.

The 20 meter band will be the workhorse band, as usual. Look for weak deep-Asian stations direct path during the morning European runs and stronger signals in the afternoon and early evening JAs will dominate from about 1900 UTC to 0500 UTC -- 11 hours in November and even more in October. If you are a single operator and if you have a big 40-meter antenna, in the middle of your 40-meter CW runs into Europe in the early evening, catch the 20-meter deep-Asia opening about 0100 UTC to snag that elusive Zone 23 and some Zone 22 and 24 stations, too.

Forty meters should be a lot of fun, on CW, anyway. IONCAP predicts that European signals, albeit very weak, will be available for 24 hours a day on 40 meters. Work your brains out into Europe, since you'll be S9 (less than 10 dB down from the East Coast) if you have a Yagi there.

Eighty meters will be ... 80 meters. Work any Europeans you can, to get multipliers, through the East Coast aluminum and wire curtain. Starting about 0700 UTC you should be able to run JAs, given a decent antenna on 80 meters. Note that the column "NA" (North America) includes all zones in North America. This means that the signals will be very loud on the lower bands, dominated in these computations by

signals from Zone 3, of course. Don't forget to work Zones 4 and 5 for multipliers!

There is a set of much more detailed data available for any NCCC member from me through e-mail at n6bv@arrl.org and ask for NCCC2.ZIP. These data cover all 40 CQ Zones versus UTC, with a page each for each band from 160 through 10 meters. There is a separate set of tables for short-path and long-path. The long-path tables are particularly interesting since they sometimes show that a band will open long-path, go short-path and then close long-path. Bear in mind, however, that the long-path signals are rarely very strong and competition from the East Coast, from Japan (into Europe) and Europe (into Asia) will often completely bury such signals.

73, Dean, N6BV

The Curse of Fort Huachuca

I'm not often given to looking to the dark side for answers to inexplicable events, but, after a 20 year string of bizarre happenings, I am labeling this one "The Curse of Ft. Huachuca" (wa-choo-ka). The origins of the curse may never be known, so we pick up the story in the mid-1970's in Peoria, Arizona.

W7KW moved to the far north end of Phoenix to escape neighbors and to build a substantial antenna farm. He acquired about 1,500 feet of military surplus AB-105 tower from Ft. Huachuca Military Reserve (hence the name of the curse) and erected four 180' towers. Virtually from the moment he completed the towers, his problems began. A neighbor started harassing him about the towers and started what would become a four-year legal battle. It seems that the neighbor found the towers offensive because they obstructed his view of the mountains! The entire affair was punctuated by incidents of malicious harassment, sabotage and covert activities that were a constant source of aggravation to Bill. He persisted, however, erecting the prototype KLM 4-element 80 meter beam and gaining a famous cover shot in CQ Magazine when he erected an antenna using a hot air balloon.

The effects of the curse again manifested themselves in a freak wind storm that totally destroyed the 80 meter beam. Shortly after that, a court ruled that W7KW would have to lower the towers to 120' feet to placate the neighbor.

NA5R and I were starting to build another contest station in Texas when K7GM called and suggested that W7KW might want to sell out. In mid-1982, we went on a recon trip and struck up a deal. Several weeks later, five of us showed up in Peoria with two 40' tractor trailer trucks, a 90 ton Grove crane, and, in 3 days, we dismantled W7KW and moved it to Manvel,

Texas. Shortly after we left, W7KW became a silent key under circumstances still not explained.

The next year was one of wild enthusiasm, as we erected three towers and advertised plans for a killer super-station, with at least 5 towers, stacks on all bands, and rhombics. In July of 1983, Hurricane Alicia came to town and leveled Radio Manvel. Still unaware of the curse, we rebuilt and managed to erect the 40 meter, 15 meter and 10 meter stacks. About the same time, NA5R's business and my business began having problems. In December of 1984, the 10 meter tower blew down a week before (what would have been) my 10th consecutive 10 meter contest and I haven't competed in one since. By late 1985, both businesses were out of business and we were both beset by a number of personal tragedies.

We managed to operate a few contests from NA5R, but never were really competitive. In 1986, we were forced to dismantle the station and liquidate it. NR5M acquired the assets and moved them to Hempstead, Texas. In retrospect, George must have had a sense about the curse, because he opted to leave all that tower piled on the ground and build his contest station with Rohn 45 and 55. Proximity must count for something. Even though the AB-105 towers were not up, NR5M's station has never reached its full potential and stands today idle and in disrepair.

In the years since 1986, the only time the AB-105 was disturbed was when WN4KKN acquired some of it to build his station in central Texas. As history dictates, Trey had to dismantle his station, liquidate the tower, and move to California, before the potential of that station was realized.

That brings us to 1993. The Stephen F. Austin Radio Club and the Austin County Repeater Association were looking for a tower site for their repeaters, when I remembered the AB-105 laying in waste. A call to NR5M yielded a generous donation of 120' of the tower. In December, several of us unearthed the skeleton of steel from its home among the yaupon and poison ivy. In March of 1994, we stacked it in Bellville, Texas. For several weeks, it was the home of our 2 meter and 440 repeaters (and was soon to be the support for my 160, 80 and 40 meter wire arrays) when, in early April, a freak wind storm blew it down.

The next morning, the workings of the Curse of Ft. Huachuca became crystal clear to me. That tower was never up in any one place very long. It fell twice, and was taken down at least four times. Everyone that had it in their possession experienced varying degrees of family and financial problems.

Whether you are given to believe in the unexplained or inanimate objects having a spirit, I believe that in this case the Indian gods did not intend

for that tower to stand vertically. Out of deference to the evidence, it is now on its way to a nameless scrap metal yard, in an obscure city, where it will finally rest in peace, horizontally polarized.

73, Tom Taormina, K5RC

FIVE MILLION POINT AWARD

The 5 Meg 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 to win major awards. The Five Million Point Award is designed to rectify this situation. This award will be issued on a once per person basis.

HOW TO ENTER: Simple: Send a copy of your Summary Sheet to the VPCC; K7CO. After recording the score for club purposes, the VPCC will forward it to the 5 Meg Award manager (AD6E) for you.

RULES:

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

Alright! Contest SEASON is officially here, and SS is just around the corner! All sorts of competitive events are coming up soon. Now is the time to check out your standing (see the "Standings" page... bold entries have received the 5M award) and see what you can do to move yourself up the ladder. Note that many of us have used high scoring contests like WPX to push ourselves up and over the top. If you want to operate from a Big Gun station as part of a M/M, contact JT, K7CO, and he'll find a spot where you can help out. This year the club station, K6ZM, is again available for use. Contact NH7A for details. Time to QRO! CU in *my* pile-ups.

73, Al, AD6E



This will indicate that you've found the right place for the October meeting. The program is: "Sweepstakes Success," a discussion of strategy for winning the "Unlimited" club competition. Join us and contribute your ideas. We can't let those Easterners win again!

Date: Monday, 12 October 1998

Time: 6:30PM social hour/dinner, 7:30PM meeting

Location: South Beach Yacht Club, Pier 40, SF

The menu isn't decided yet, but will be two great choices as usual. Price including soft drinks, tax, and tip will be the same ... \$10. Call Al, AD6E, to make your reservation and dinner choice (he'll know what's available) by Friday the 9th (408) 725-3534 or E-mail ad6e@aol.com. Remember ... families, guests, prospective new members, etc. are always welcome!

Directions to SBYC

From the SOUTH: take 280 North to its end which turns into King Street. Follow King for a few blocks until it merges onto The Embarcadero. Turn right into the Pier 40 parking lot—if the parking spaces are filled, drive into the building on the pier for more spaces. The SBYC is the first building next to the yacht harbor, right off the parking lot and adjacent to the pier building just noted for additional parking.

From the NORTH: Get on The Embarcadero and Pier 40 is just South of the Bay Bridge. Turn into the Pier 40 parking lot and follow instructions above.

From the EAST: Come over the Bay Bridge and get on The Embarcadero to Pier 40 just South of the bridge. Turn into the Pier 40 parking lot and follow instructions above.

SOME SWEEPSTAKES MUSINGS

It is often said in California party politics that "the Democrats will win the election if they can turn out the voters." It's my personal belief that a similar sort of saying applies to the Northern California

Contest Club and the ARRL Sweepstakes. Here are a few of the reasons I believe this.

First, we are a big club. We have 200 members. If we got about 70 percent turn out, that would be 140 individual entries. Surely, that must be possible. We're all in the contest club because we like contesting and the challenge it brings, right? Now suppose each of those 140 individuals got on and submitted a log for each mode. That would be 280 logs! We honestly could top 20 million points! If a dyed-in-the-wool CW op like N6TV can dig a microphone out of his closet for the phone weekend, and SSB-lover AK6L can loosen up his wrist and key for the CW weekend, then each one of us CAN enter each mode, and submit our entries!

Second, SS is eminently winnable from the west coast, and this can't be said for many contests! This fact alone should motivate us.

Third, we should all be pretty enthusiastic about helping the club achieve such a goal as winning the SS gavel again. A few years ago, the ARRL talked about NCCC being a "dynasty" in winning the little hammer. There hasn't been much talk like that lately.

If my belief is correctly placed, the thing is ours any time we want to claim it. But it will take an honest effort by as many members as possible!

I'd like to recommend that, this year, we each work hard on our participation in Sweepstakes; then we won't have to work hard on our excuses for why we didn't...

GARNER THE GAVEL!

73, K6GT



It helps a lot to have a person of small physical size at the top of the tower to tune the beam once it's up. Here is a trainee working at the "Silverado Motel" for last year's CQP expedition to Napa county. A playpen is also a useful Yagi assembly aid.

Oct. 1998, CA (San Francisco), for SSN = High, Sigs in S-Units. For NCCC By N6BV, ARRL.

| UTC | 80 Meters | | | | 40 Meters | | | | 20 Meters | | | | 15 Meters | | | | 10 Meters | | | | UTC | | | | | | | | | | | | | | | | | | |
|-----|-----------|----|----|-------------|-----------|----|----|-------------|-----------|----|----|-------------|-----------|----|----|-------------|-----------|----|----|-------------|-----|----|----|----|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|
| | EU | FE | SA | AF AS OC NA | EU | FE | SA | AF AS OC NA | EU | FE | SA | AF AS OC NA | EU | FE | SA | AF AS OC NA | EU | FE | SA | AF AS OC NA | | | | | | | | | | | | | | | | | | | |
| 0 | - | - | 3 | - | - | - | - | 9+ | 7 | - | 9 | 6 | 3 | 2 | 9+ | 2 | 9 | 9+ | 9+ | 9+ | 9+ | - | 4 | 9 | - | - | 9 | 9+ | 0 | | | | | | | | | | |
| 1 | 1 | - | 8 | 1 | - | - | - | 9+ | 8 | - | 9+ | 8 | 4 | 6 | 9+ | 7 | 9 | 9+ | 9+ | 9+ | 9+ | - | 9 | 9+ | 5 | 8 | 9+ | 9+ | - | 2 | 8 | - | - | 9 | 9+ | 1 | | | |
| 2 | 2 | - | 9 | 5 | - | - | - | 9+ | 8 | 1 | 9+ | 8 | 4 | 9 | 9+ | 3 | 9 | 9+ | 9+ | 9+ | 9+ | - | 9 | 9 | 1 | 8 | 9+ | 9+ | - | 2 | 1 | - | - | 9 | 9 | 2 | | | |
| 3 | 4 | - | 9 | 4 | - | - | - | 9+ | 8 | 1 | 9+ | 8 | 2 | 9+ | 9+ | 2 | 9 | 9+ | 9 | 9 | 9+ | - | 8 | 8 | - | 6 | 9+ | 9+ | - | - | - | - | - | 5 | 6 | 3 | | | |
| 4 | 5 | - | 9+ | 3 | - | - | - | 9 | 9+ | 7 | 3 | 9+ | 9 | 1 | 9+ | 9+ | 2 | 9 | 9+ | 8 | 8 | 9+ | 9+ | - | 4 | 1 | - | - | - | - | - | - | - | - | 8 | 6 | 4 | | |
| 5 | 5 | - | 9+ | 4 | - | - | - | 9+ | 9+ | 7 | 6 | 9+ | 9 | 2 | 9+ | 9+ | - | 9 | 9+ | 3 | 6 | 9+ | 9+ | - | - | - | - | - | - | - | - | - | - | - | 8 | 6 | 5 | | |
| 6 | 6 | 1 | 9+ | 5 | - | - | - | 9+ | 9+ | 7 | 8 | 9+ | 9 | 3 | 9+ | 9+ | - | 6 | 9+ | 4 | - | 9+ | 9+ | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 6 | | |
| 7 | 6 | 4 | 9 | 5 | - | - | - | 9+ | 9+ | 8 | 9 | 9+ | 8 | 5 | 9+ | 9+ | - | 2 | 9+ | 5 | - | 9+ | 9+ | - | 1 | - | - | - | - | - | - | - | - | - | - | 6 | 7 | | |
| 8 | 1 | 7 | 9 | - | - | - | - | 9+ | 9+ | 8 | 9 | 9+ | 7 | 5 | 9+ | 9+ | 1 | - | 9+ | 4 | - | 9+ | 9+ | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 8 | | |
| 9 | - | 8 | 9+ | - | - | - | - | 1 | 9+ | 9+ | 7 | 9 | 9+ | 6 | 7 | 9+ | 9+ | - | 9+ | 1 | - | 9+ | 9+ | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 9 | | |
| 10 | - | 9 | 9 | - | - | - | - | 3 | 9+ | 9+ | 6 | 9 | 9+ | 4 | 8 | 9+ | 9+ | - | 1 | 9 | - | 9+ | 9+ | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 10 | | |
| 11 | - | 9 | 9+ | - | - | - | - | 5 | 9+ | 9+ | 4 | 9+ | 9+ | 1 | 9 | 9+ | 9+ | - | 2 | 5 | - | 9 | 9+ | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 11 | | |
| 12 | - | 9 | 9 | - | - | - | - | 6 | 9+ | 9+ | 4 | 9+ | 9+ | - | 9 | 9+ | 9+ | - | 3 | 9 | - | 8 | 9+ | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 12 | | |
| 13 | - | 9 | 6 | - | - | - | - | 7 | 9+ | 9+ | 5 | 9+ | 9+ | - | 9 | 9+ | 9+ | - | 9+ | 2 | - | 9+ | 9+ | - | - | - | - | - | - | - | - | - | - | - | - | 8 | 13 | | |
| 14 | - | 9 | - | - | - | - | - | 8 | 9+ | 9+ | 5 | 9 | 7 | - | 9 | 9+ | 9+ | 8 | - | 9+ | 6 | - | 9 | 9+ | - | - | - | - | - | - | - | - | - | - | - | 6 | 14 | | |
| 15 | - | 8 | - | - | - | - | - | 6 | 9 | 9+ | 6 | 9 | 2 | 1 | 9 | 9+ | 9+ | 9 | 6 | 9+ | 9 | 7 | 9 | 9+ | - | - | - | - | - | - | - | - | - | - | - | 9 | 15 | | |
| 16 | - | 3 | - | - | - | - | - | 6 | 9+ | 9+ | 5 | 9 | - | 1 | 7 | 9 | 9+ | 9 | 9+ | 9 | 9 | 9 | 9+ | 9+ | 6 | - | 9+ | 8 | - | - | 9+ | - | - | 9 | 3 | - | 2 | 9+ | 16 |
| 17 | - | 1 | - | - | - | - | - | 9+ | 9+ | 1 | 7 | - | - | 5 | 8 | 9+ | 9 | 9+ | 8 | 9 | 8 | 9 | 9+ | 9+ | 9 | 5 | 9+ | 9 | - | 9+ | 9+ | - | - | 9 | 6 | - | 9+ | 17 | |
| 18 | - | - | - | - | - | - | - | 9+ | 9+ | - | 5 | - | - | 3 | 5 | 9+ | 8 | 9 | 5 | 8 | 4 | 9+ | 9+ | 8 | 7 | 9 | 9 | - | 9+ | 9+ | - | - | 9 | 6 | - | 1 | 9+ | 18 | |
| 19 | - | - | - | - | - | - | - | 9+ | 9+ | - | 1 | - | - | 1 | - | 9+ | 8 | 8 | 6 | 7 | 4 | 9+ | 9+ | 6 | 1 | 9 | 9 | - | 9+ | 9+ | - | - | 9 | 8 | - | 1 | 9+ | 19 | |
| 20 | - | - | - | - | - | - | - | 9+ | 9+ | - | - | - | - | - | 9+ | 8 | 8 | 7 | 7 | 2 | 9 | 9+ | 3 | 4 | 9+ | 9 | - | 9+ | 9+ | - | - | 9 | 5 | - | 8 | 9+ | 20 | | |
| 21 | - | - | - | - | - | - | - | 9+ | 9+ | - | - | - | - | - | 9+ | 8 | 8 | 9 | 8 | 2 | 8 | 9+ | - | 9 | 9+ | 9 | - | 9+ | 9+ | - | - | 1 | 9 | 1 | - | 9 | 9+ | 21 | |
| 22 | - | - | - | - | - | - | - | 9+ | 9+ | 2 | - | - | - | - | 9+ | 8 | 8 | 9+ | 9 | 7 | 9 | 9+ | - | 9 | 9+ | 8 | - | 9+ | 9+ | - | - | 6 | 9 | 1 | - | 9 | 9+ | 22 | |
| 23 | - | - | - | - | - | - | - | 9+ | 9+ | 5 | - | 7 | 4 | 1 | - | 9+ | 4 | 8 | 9+ | 9+ | 8 | 9 | 9+ | - | 9 | 9+ | 9 | 6 | 9+ | 9+ | - | - | 5 | 9+ | 2 | - | 9 | 9+ | 23 |

Nov. 1998, CA (San Francisco), for SSN = High, Sigs in S-Units. For NCCC By NGBV, ARRL.

| UTC | 80 Meters | | | | 40 Meters | | | | 20 Meters | | | | 15 Meters | | | | 10 Meters | | | | UTC | | | | | | | | | | | | | | | |
|-----|-----------|----|----|----|-----------|----|----|----|-----------|----|----|----|-----------|----|----|----|-----------|----|----|----|-----|----|----|----|----|----|----|----|----|---|----|---|----|----|----|----|
| | EU | FE | SA | AF | AS | OC | NA | EU | FE | SA | AF | AS | OC | NA | EU | FE | SA | AF | AS | OC | | NA | EU | FE | SA | AF | AS | OC | NA | | | | | | | |
| 0 | 1 | - | 4 | 1 | - | - | 9+ | 7 | 1 | 9 | 8 | 5 | 3 | 9+ | 1 | 9 | 9+ | 9+ | 9+ | 9+ | - | 9+ | 9+ | 8 | 7 | 9+ | 9+ | - | 9 | 9 | - | 9 | 9+ | 0 | | |
| 1 | 2 | - | 7 | 2 | - | - | 9+ | 8 | 1 | 9+ | 8 | 6 | 7 | 9+ | 2 | 9 | 9+ | 9+ | 9+ | 9+ | - | 9+ | 9+ | 1 | 8 | 9+ | 9+ | - | 8 | 2 | - | 9 | 9+ | 1 | | |
| 2 | 3 | - | 9 | 4 | - | - | 9+ | 8 | 2 | 9+ | 9 | 7 | 9 | 9+ | 2 | 9+ | 9+ | 9 | 9+ | 9+ | - | 9 | 9 | - | 7 | 9+ | 9+ | - | 1 | - | - | 9 | 6 | 2 | | |
| 3 | 4 | - | 9 | 2 | - | - | 8 | 9+ | 8 | 3 | 9+ | 9 | 4 | 9+ | 9+ | 2 | 9+ | 9+ | 7 | 9 | 9+ | 9+ | - | 8 | 7 | - | - | 9 | 9+ | - | - | 8 | 6 | 3 | | |
| 4 | 5 | - | 9+ | 2 | - | - | 9 | 9+ | 9 | 5 | 9+ | 9 | 4 | 9+ | 9+ | - | 9 | 9+ | 4 | 6 | 9+ | 9+ | - | - | - | - | - | 9 | 8 | - | - | 5 | 6 | 4 | | |
| 5 | 5 | - | 9+ | 3 | - | - | 9+ | 9+ | 8 | 7 | 9+ | 9 | 4 | 9+ | 9+ | - | 9 | 9+ | - | - | 9+ | 9+ | - | - | - | - | - | 9 | 6 | - | - | 1 | 6 | 5 | | |
| 6 | 6 | 2 | 9+ | 4 | - | - | 9+ | 9+ | 7 | 8 | 9+ | 8 | 4 | 9+ | 9+ | - | 1 | 9+ | 1 | - | 9+ | 9+ | - | - | - | - | - | 7 | 6 | - | - | - | 6 | 6 | | |
| 7 | 6 | 6 | 9 | 6 | - | - | 9+ | 9+ | 7 | 8 | 9+ | 8 | 5 | 9+ | 9+ | - | 9 | - | - | 9+ | 9+ | - | - | - | - | - | 4 | 6 | - | - | - | - | 6 | 7 | | |
| 8 | 5 | 8 | 9 | 1 | 1 | 9+ | 9+ | 8 | 9 | 9+ | 8 | 6 | 6 | 9+ | 9+ | - | 9+ | 5 | - | 9+ | 9+ | - | - | - | - | - | 6 | 6 | - | - | - | - | 6 | 8 | | |
| 9 | 1 | 8 | 9 | - | 1 | 9+ | 9+ | 8 | 9 | 9+ | 6 | 7 | 9+ | 9+ | 1 | - | 9 | 4 | - | 9 | 9+ | - | - | - | - | - | 6 | 6 | - | - | - | - | 6 | 9 | | |
| 10 | 1 | 8 | 9+ | - | 3 | 9+ | 9+ | 8 | 9 | 9+ | 5 | 8 | 9+ | 9+ | - | 1 | 8 | - | - | 9 | 9+ | - | - | - | - | - | 6 | 6 | - | - | - | - | 6 | 10 | | |
| 11 | - | 9 | 9 | - | 5 | 9+ | 9+ | 7 | 9 | 9+ | 1 | 9 | 9+ | 9+ | - | 2 | 1 | - | - | 9 | 9+ | - | - | - | - | - | 6 | 6 | - | - | - | - | 6 | 11 | | |
| 12 | - | 8 | 9 | - | 5 | 9+ | 9+ | 4 | 9 | 9+ | - | 9 | 9+ | 9+ | - | 1 | 6 | - | - | 8 | 9+ | - | - | - | - | - | 6 | 6 | - | - | - | - | 6 | 12 | | |
| 13 | 1 | 9 | 7 | - | 7 | 9+ | 9+ | 6 | 9 | 9+ | 1 | 8 | 9+ | 9+ | - | 9 | 1 | - | 9 | 9+ | - | - | 1 | - | - | - | 6 | 6 | - | - | - | - | 6 | 13 | | |
| 14 | 2 | 9 | 1 | - | 8 | 9+ | 9+ | 8 | 9 | 8 | 1 | 8 | 9+ | 9+ | 5 | - | 9+ | 6 | - | 7 | 9+ | - | - | 9 | 2 | - | - | 9+ | 6 | - | - | - | 6 | 14 | | |
| 15 | 1 | 9 | - | - | 8 | 9+ | 9+ | 7 | 9 | 4 | 2 | 9 | 9+ | 9+ | 9 | - | 9+ | 9 | 6 | 9 | 9+ | - | - | 9+ | 7 | - | - | 9+ | 6 | - | - | 9 | 1 | 15 | | |
| 16 | - | 5 | - | - | 1 | 8 | 9+ | 4 | 9 | - | 2 | 7 | 9+ | 9+ | 9 | 9 | 9 | 9+ | 8 | 9+ | 9+ | 9 | - | 9+ | 8 | - | 1 | 9+ | - | - | 9+ | 6 | - | 9+ | 16 | |
| 17 | - | 2 | - | - | 2 | 9+ | 9+ | 2 | 8 | - | - | 7 | 9 | 9+ | 9 | 9+ | 8 | 9 | 4 | 9+ | 9+ | 8 | 4 | 9+ | 9 | - | 9+ | 9+ | - | - | 9+ | 9 | - | 9 | 17 | |
| 18 | - | - | - | - | - | 9+ | 9+ | 2 | 6 | - | - | 5 | 6 | 9+ | 9 | 9 | 6 | 8 | 1 | 9+ | 9+ | 5 | 5 | 9+ | 9 | - | 9+ | 9+ | - | - | 9 | 9 | - | 3 | 9 | 18 |
| 19 | - | - | - | - | - | 9+ | 9+ | 1 | 4 | - | - | 3 | 1 | 9+ | 8 | 7 | 6 | 8 | 2 | 9+ | 9+ | - | 9+ | 9 | - | 9+ | 9+ | - | - | 9 | 4 | - | 6 | 9+ | 19 | |
| 20 | - | - | - | - | - | 9+ | 9+ | 1 | 1 | - | - | 2 | - | 9+ | 7 | 9 | 8 | 8 | 2 | 9 | 9+ | - | 2 | 9+ | 9 | - | 9+ | 9+ | - | - | 9 | 5 | - | 9 | 9+ | 20 |
| 21 | - | - | - | - | - | 9+ | 9+ | 2 | - | 1 | - | 1 | - | 9+ | 1 | 9 | 9 | 9 | 2 | 7 | 9+ | - | 8 | 9+ | 8 | - | 9+ | 9+ | - | - | 9 | 5 | - | 8 | 9+ | 21 |
| 22 | - | - | - | - | - | 9+ | 9+ | 4 | - | 4 | 2 | 1 | - | 9+ | - | 9 | 9+ | 9 | 5 | 9 | 9+ | - | 9 | 9+ | 9 | - | 9+ | 9+ | - | 8 | 9 | 6 | - | 8 | 9+ | 22 |
| 23 | - | - | 1 | - | - | - | 9+ | 6 | - | 7 | 5 | 2 | - | 9+ | 1 | 9 | 9+ | 9+ | 8 | 9 | 9+ | - | 9 | 9+ | 9 | - | 9+ | 9+ | - | 8 | 9 | 1 | - | 9 | 9+ | 23 |

5 MEG STANDINGS

| | | | | | | | |
|--------|------------|--------|-----------|--------|-----------|--------|---------|
| K6HNZ | 37,608,940 | K6GT | 5,455,717 | W6ISO | 1,333,949 | N6KD | 208,764 |
| N6RO | 33,233,124 | K6MA | 5,243,653 | K6WG | 1,297,367 | N6UUG | 206,948 |
| N7TR | 29,348,616 | KS6H | 5,171,702 | N6ST | 1,250,472 | KM6OH | 205,239 |
| N5KO | 26,301,288 | VE7NKI | 4,845,542 | K6UM | 1,223,282 | WB6DSV | 170,692 |
| N6IG | 22,655,320 | KX7M | 4,782,789 | K6CTA | 1,019,377 | K6XV | 127,768 |
| N6EK | 21,656,352 | AI6V | 4,775,740 | KA6ING | 964,603 | W7UA | 124,616 |
| NU6S | 21,209,232 | K6PU | 4,642,088 | K6III | 909,711 | N6GRJ | 124,202 |
| VE7NTT | 20,448,292 | WB6MZQ | 4,632,383 | W6DQ | 778,499 | K6RC | 116,200 |
| N6TV | 19,315,138 | N6DA | 4,387,318 | W7BX | 778,291 | N2ALE | 113,547 |
| W6RGG | 16,631,101 | NK6L | 3,666,789 | K4TKM | 764,885 | W6DPD | 80,784 |
| KI6CG | 15,153,378 | WC6H | 3,520,748 | W6OSP | 736,289 | K7CO | 77,064 |
| K6XX | 15,067,022 | N6GG | 3,465,656 | KA6W | 726,525 | N6JT | 66,504 |
| N6CCL | 13,042,046 | N6ZM | 3,431,467 | NC7M | 712,840 | K6XN | 63,024 |
| W6EU | 12,846,920 | W7DR | 3,300,365 | N1CS | 606,454 | KG6I | 57,499 |
| AD6E | 12,805,092 | W0ZZ | 3,042,893 | K6RK | 513,307 | K6IDX | 55,900 |
| K6TMB | 12,639,257 | K6BL | 2,913,819 | K6BPB | 481,136 | AA6TY | 55,310 |
| K6AW | 11,600,442 | NH7A | 2,886,661 | KD6UO | 473,396 | AA6EG | 48,921 |
| W6FSJ | 10,782,752 | K2MM | 2,871,643 | AF6S | 464,500 | AD6AY | 48,914 |
| W6BSY | 10,714,985 | KT6RA | 2,605,312 | W6WB | 462,766 | W6IXP | 46,760 |
| N6NT | 10,278,325 | W6EEN | 2,541,236 | N0BBS | 438,113 | K6EP | 45,920 |
| AE0M | 9,610,274 | KM6F | 2,508,207 | N7TN | 413,631 | K6PUD | 38,760 |
| AG6D | 9,535,259 | K6UM | 2,422,255 | N6TU | 409,378 | WE6F | 38,182 |
| N6KT | 9,028,478 | N6EE | 2,252,617 | N6OM | 393,428 | WA0YQM | 36,538 |
| WX6M | 8,858,100 | N6BT | 2,242,920 | K6WG | 393,375 | W6KZJ | 32,980 |
| NI6T | 8,609,868 | W6SZN | 2,085,426 | NP4IW | 382,648 | N6IFW | 30,028 |
| W6BIP | 8,523,855 | KD6KKP | 1,923,958 | N7STU | 372,974 | NC7K | 27,600 |
| W6OAT | 8,446,494 | KD6WW | 1,764,054 | N6RA | 342,580 | AJ6T | 27,191 |
| K6KR | 8,346,126 | K6KM | 1,706,757 | N6PN | 311,076 | AA6W | 26,902 |
| K3EST | 7,975,857 | AK6L | 1,704,533 | K6WJ | 282,384 | KN6QT | 25,840 |
| K2KW | 7,974,621 | K6LRN | 1,702,775 | K6ANP | 261,722 | K6ESL | 23,800 |
| W6NL | 7,973,763 | N6ZB | 1,691,898 | W6CF | 260,188 | W6SYL | 21,351 |
| AE6Y | 7,824,983 | NT6K | 1,679,188 | N6VV | 255,504 | K6GL | 18,957 |
| W6CT | 7,756,645 | W6XX | 1,667,207 | N6TNW | 242,811 | W6YM | 16,688 |
| NF6S | 6,701,070 | W6PLJ | 1,637,873 | N6TNX | 241,143 | AF7Y | 13,970 |
| W6ISQ | 6,646,910 | W6RJ | 1,576,455 | K6RB | 238,546 | NV6O | 9,160 |
| AJ6V | 6,289,925 | AA6QY | 1,534,284 | K6MO | 231,206 | K6GI | 4,514 |
| KI6EZ | 5,937,153 | WX6V | 1,510,636 | N6NZ | 215,406 | K6ST | 2,760 |
| W6REC | 5,877,592 | AB6WM | 1,496,720 | VV6D | 213,074 | | |
| K6BZ | 5,672,476 | W0YK | 1,378,690 | K6MIG | 209,576 | | |

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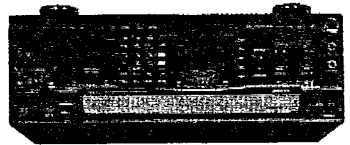
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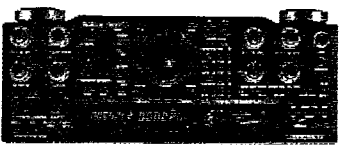
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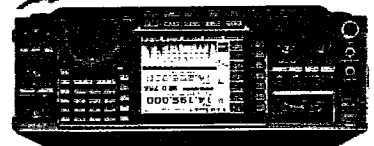
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