

Results of the 2000 CQ WW DX CW Contest

BY BOB COX,* K3EST

After sorting through the 3676 logs received, the 2000 CQ WW DX CW Contest can best be summarized by "Wow!" The conditions were outstanding. Even when there was a solar flare on Sunday, the consensus was that this was a contest to remember. Outstanding openings on 10, 15, and 20 meters made for lots of QSO opportunities. The number of normally hard-to-find DX stations on the air for the contest gave many new countries to a lot of contesters. The effect of the solar flare did not last long, and when good conditions returned, the QSOs kept coming.

The number of electronic logs received is increasing every year. This has allowed us to publish the results in a more timely manner. Look here on the pages of CQ for your call and check out the various boxes to see how the top entrants performed.

High Power

Put together a great location with great conditions to Europe and the U.S., a great operator, and lots of multipliers within easy reach and what do you have? EA8BH operated by N5TJ. Jeff took the trip over to EA8, but this time for the CQ WW CW. When the contest was over, the new World CW All Band record was in his pocket. I think his words in the DX QRM best summarize his feelings (see following pages). Second place in the world went to Jose, CT1BOH, who went down to P40E. Operating from the northern side of P4, where there is a clear shot north, José made it into many logs. Third place went to Hrane, YT1AD, who operated 3V8BB.

In the U.S. Randy, K5ZD/1, put it all together for a colossal win. Taking on both K1AR and K1ZZ, Randy was the clear winner. In second place was John, K1AR, operating from K1EA's QTH. Third was Dave, K1ZZ.

In northern Europe OH1JT looked up at the sky and didn't see a massive aurora. This was a good sign, which he really took advantage of by pushing OH0Z to first place in Europe. Second place went to Dave, G4BUO, while third was won by DL1IAO. The top entrants from each continent were North America 8P9Z, Africa EA8BH, Asia A45XR, Europe OH0Z, South America P40E, and Oceania V8A.

Low Power

Running 100 watts output is a category with a big challenge. It puts a real emphasis on location and antennas. Going to a place which can generate high QSO numbers defines the locations of all three top low power winners. Finishing on top after all the scores were certified was V26K operated by AA3B. Second place

DX1S's QTH in the Philippines. The operator was Roland, DK3GI.



went to SU9ZZ, who not only did a fantastic job, but I am sure his efforts are appreciated by the whole contesting community. He was almost surely a double mult for everyone. World third place went to T15N operated by K9NW.

In Europe the top scorer was SQ6Z operated by SP3RBR. It seems that northeast Europe is the place to be for low power in Europe. Second place went to LY9A operated by LY3BA, and third was taken by YZ7AA. In the U.S. K1RO pushed the paddle/keyboard to new low power heights, setting a U.S. record. Second place went to N8AA, and third to AA1ON. A special mention must be made of the scores of EY8MM, PX2W, UP6P, P29VPY, PY2NY, and VU2PAI. Each did an outstanding job from places far away from the U.S. and/or Europe. The top entrant from each continent was North America T15N, Africa SU9ZZ, Asia EY8MM, Europe SQ6Z, South America PX2W, and Oceania P29VPY.

QRP

The QRP crowd is a dedicated bunch. Working people with 5 watts is a challenge at any time. Doing it during the CQ WW when conditions are great to disturbed is a real challenge. This

year there were many people who took on that challenge. Setting a new U.S. QRP all band record while keying himself to the world top score was K3OO. What a great job he did. Second place went to Doug, KR2Q, the former record holder. Third-place world went to N3BJ/4. Over in Europe LY5G operated by LY2FE took top honors. He was followed by S55A and SM3C operated by SM5CCT. Outstanding efforts were made by JR4DAH, who set a new Japanese record, and PQ2Q operated by PY2WC. Both operated from areas far from population centers.

QRP 1000 QSOs: K3OO, KR2Q, N3BJ/4, LY5G, S55A, SM3C, DL6MHW, DL3KVR, SP4GFG, PA3ELD, S52P, F6OIE, JR4DAH, and PQ2Q. Winners by continent: North America K3OO, Africa none, Asia JR4DAH, Europe LY5G, South America PQ2Q, Oceania none.

Assisted

The number one score in the world was achieved by Charles, K3WW. He has learned how to combine QSO rates with callouts in a way that yields a big score. That skill is a tough lesson to learn for most assisted entrants. The number two score in the world was from K11G.

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BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs/Zones/Countries on each band

WORLD TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
EA8BH	197/17/60	541/20/82	1091/33/95	1601/39/129	1746/39/134	2375/35/133
P40E	280/15/39	552/20/67	1013/27/92	1012/35/107	1457/37/117	2019/35/113
3V8BB	251/11/53	633/18/70	1300/27/93	1491/33/111	1143/32/112	1366/35/105
8P9Z	123/9/18	557/20/66	1179/24/84	1110/30/86	1180/29/94	2088/32/94
A45XR	243/13/52	319/20/62	890/26/77	1107/32/101	1188/34/107	1252/30/95
K5ZD/1	104/14/40	384/19/73	971/29/103	988/33/105	848/33/104	1189/33/106
FY5KE	87/12/33	290/13/48	713/26/77	503/31/92	1177/33/108	2123/33/117
K1AR	34/10/19	398/16/69	1064/29/96	1009/35/114	865/32/112	1203/35/112
CT3BX	68/13/31	351/13/50	707/16/63	1416/29/85	1782/31/87	1612/29/85
K1ZZ	37/12/26	325/20/69	998/31/102	659/36/105	1253/35/111	1073/33/108

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	104/14/40	384/19/73	971/29/103	988/33/105	848/33/104	1189/33/106
K1AR	34/10/19	398/16/69	1064/29/96	1009/35/114	865/32/112	1203/35/112
K1ZZ	37/12/26	325/20/69	998/31/102	659/36/105	1253/35/111	1073/33/108
KQ2M/1	19/9/15	299/16/62	785/27/95	950/37/114	1009/35/114	1335/34/116
W9RE	25/12/14	112/15/48	776/30/100	1179/36/114	875/34/111	1164/32/105
K1DG	58/11/33	307/19/64	1021/28/93	671/31/99	858/33/101	1118/31/104
W1KM	65/9/38	421/23/73	731/26/86	755/36/99	769/30/93	1071/31/95
N2NT	32/12/24	248/17/69	638/25/84	937/36/102	902/34/96	1020/31/95
K2UA	25/10/17	148/13/47	686/28/94	709/29/94	835/32/100	1360/31/97
K4ZW	7/5/5	93/13/46	770/26/84	647/30/89	914/34/104	1026/35/110

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

P3A	187/9/57	827/21/82	1429/30/109	1425/38/135	1619/37/128	2047/37/134
TS7N	178/10/57	366/18/79	1119/29/100	1074/35/134	2192/31/125	1419/33/119
RU1A	71/18/69	315/33/110	992/37/132	1547/38/146	1355/38/150	1390/39/150
EA6IB	236/16/63	806/29/96	1270/34/118	1357/37/142	1330/38/135	1418/39/146
K1KI	58/13/53	453/22/86	926/30/118	1010/38/143	880/37/136	1148/35/143
PJ2T	95/11/18	307/13/50	976/28/90	1207/37/113	1469/33/114	1731/36/110

USA MULTI-OPERATOR SINGLE TRANSMITTER

K1KI	58/13/53	453/22/86	926/30/118	1010/38/143	880/37/136	1148/35/143
K4XS	22/10/21	148/21/78	938/35/122	841/37/146	971/37/152	1267/38/148
K8AZ	37/14/35	97/23/77	842/32/114	1103/37/143	846/36/133	1137/34/139
W2AA	12/8/11	172/16/71	972/31/117	475/37/140	908/36/142	1112/36/144
K1IR	31/11/27	589/23/88	924/31/112	714/36/130	762/36/124	1034/32/134
K4JA	19/9/17	64/18/60	922/34/114	1008/37/143	994/36/134	826/36/136

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

CN8WW	1547/22	3181/35/124	4284/38/139	5162/38/157	4482/38/159	4734/39/161
HC8N	517/18/44	1343/30/99	3083/36/128	3771/38/161	4028/38/158	4490/39/155
A61AJ	779/27/84	1730/33/118	2817/36/128	3592/39/154	3307/38/148	3422/38/146
KC1XX	243/20/63	1224/28/102	2064/35/133	2234/38/156	2033/38/148	1891/37/150
W3LPL	261/21/60	1042/29/106	1713/34/135	2285/38/159	2013/38/156	2182/37/152
9G5AA	82/14/46	200/21/56	920/31/94	3635/39/139	3985/39/143	2358/32/116

USA MULTI-OPERATOR MULTI-TRANSMITTER

KC1XX	243/20/63	1224/28/102	2064/35/133	2234/38/156	2033/38/148	1891/37/150
N2RM	142/17/47	898/27/102	2039/36/130	2175/38/148	1752/37/150	1964/36/141
K3LR	158/19/46	631/30/103	1749/36/132	2188/38/151	1901/40/158	1850/37/151
K9NS	259/21/58	451/29/100	1116/35/128	1853/38/151	1847/38/141	1798/36/148
N3RS	70/12/34	399/22/82	1730/35/127	1872/38/150	1695/38/143	1576/34/138



Pai, VU2PAI, can always be found in the CQ WW.

sure have found a home in Cyprus. Second place in the world was the special DXpedition to Tunisia by a German team operating TS7N. This was a well-publicized contest and IOTA event. They were certainly in a lot of logs. Third-place world and first-place Europe was RU1A. Operating near St. Petersburg, they could be found and worked easily. Second place went to the Balearic Island contesters of EA6IB. Third place was taken by 9A7A.

In the U.S. top honors went to K1KI. Tom put together a crew that anyone would consider

very experienced. That skill paid off big time. Second place went to Bill, K4XS, whose tall towers and stacks in Florida made the QTH really play. K8AZ located in northeastern Ohio won the bronze. The top scorers were North America K1KI, Africa TS7N, Asia P3A, Europe RU1A, South America PJ2T, Oceania AH2R.

Multi-Multi

Once again heading south with a strong contingent of contesters, the CN8WW team was hoping to set the world on its head this year. They did, and won by 25+ million points! Being close to Europe on the low bands makes a huge difference. Second place went to another fine group of operators at HC8N. Operating from a building specially constructed to house a multi crew, the ops could look out the windows at the Pacific Ocean in the distance. Third place in the world went to A61AJ. Ali's ideas and plans reach fruition each contest season when the operators arrive in Dubai. Located over 2000 miles from any population center, their third-place finish was outstanding (see the A61AJ story on p. 22—ed.).

The competition among the U.S. multis was really tough. The winner was KC1XX. Mat's station edged out a determined W3LPL team. Third place went to N2RM, who just edged out K3LR. You can look at the Band-By-Band Breakdown box to see just where each team did well. In most cases the differences were small. Most contesters do not realize the tremendous amount of work put into all the top multi efforts. Many, many weekends are devoted to making yearly improvements.

Northern zone 15 seems to the place to be for European multi-multi. OH2U took top honors and just missed beating their own European record. Second place went to the fine ops at RW2F, while third place went to DF0HQ. These

three calls made a collective 34,720 QSOs in the contest with only 408 QSOs separating them. The continental winners were North America J3A, Africa CN8WW, Asia A61AJ, Europe RW2F, South America HC8N, Oceania YJ0V.

Clubs

What do you call 661 million points? The Yankee Clipper Contest Club. That was the world winning club score turned in by the contesters from the New England area. Second place world was taken by perennial power house, the Frankford Radio Club. Farther down the east coast, the Potomac Valley Radio Club took third place USA. With their two massive scores from CN8WW, the Bavarian Contest Club talked and keyed its way to the top of the DX club category and third place world. It sure pays to have members go out on DXpeditions, not only for your club but it helps to make the contest more interesting for everyone. Finishing in second place was the Rhein-Ruhr DX Association. The RRDXA just edged out Contest Club Finland.

Team Contesting

Each year there is an increase in the number of teams participating in this category. Continuing its long winning streak, one of the Neiger's Tigers teams took the top position. Winning by over 20 million points is a very convincing victory. The traveling Finns won the second-place slot. Two of the Straight Key teams ended up among the top five teams. Many of the teams, such as the Straight Key teams, compete among themselves. This fall why not join a team for the CQ WW? There are calls for team members on the contest reflector in October and November. Remember that each team has five members, and they can be from anywhere. The only requirements are that the team must

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
OH0Z	267/11/46	500/19/67	611/27/85	1160/32/98	1000/32/107	1039/31/102
G4BUO	281/11/49	545/16/65	558/26/79	800/31/92	798/36/102	920/31/104
DL1IAO	132/8/47	563/21/69	768/30/93	415/29/93	834/33/102	1035/33/109
ZB2X	178/12/48	405/17/64	504/20/73	823/33/95	903/29/87	1384/33/89
SP7GIQ	153/8/42	426/21/58	943/25/75	730/30/75	957/31/90	773/34/89
S50A	43/8/41	482/17/70	1044/29/93	355/31/85	1024/33/91	873/34/95
Y17R	102/8/49	459/15/65	901/29/82	635/29/100	806/32/107	626/34/107
OH0R	272/12/54	390/19/67	816/31/92	596/33/92	493/30/91	749/32/105
OZ1LO	351/11/51	373/13/53	546/20/69	735/30/84	799/31/91	839/31/97
OH5CW	32/7/22	204/11/50	301/22/78	867/36/90	905/30/94	1080/34/105

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

RU1A	71/18/69	315/33/110	992/37/132	1547/38/146	1355/38/150	1390/39/150
EA6IB	236/16/63	806/29/96	1270/34/118	1357/37/142	1330/38/135	1418/39/146
9A7A	111/9/56	835/22/81	1307/31/124	901/34/132	1476/35/124	1216/36/136
OE2S	220/9/53	586/20/80	1126/34/121	822/38/135	1251/35/128	1184/36/138
OM8A	135/11/59	491/21/79	1405/30/110	986/35/126	1156/34/124	1168/35/138
IQ4A	54/9/52	295/27/101	955/36/126	690/35/136	1232/36/137	1333/37/146

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

OH2U	743/16/71	1189/32/111	2169/38/140	2807/38/156	2397/38/148	2114/39/156
RW2F	1122/22/80	1511/29/103	2267/35/134	2835/38/150	1907/37/139	2185/39/152
DF0HQ	809/12/63	1590/25/94	2589/35/135	2258/39/146	2059/39/142	2169/39/153
HG6N	575/9/57	1279/23/85	2276/35/129	2152/37/143	2088/37/141	2141/37/146
ES9C	822/14/64	1511/28/98	2162/37/136	2524/37/137	1970/37/140	1639/35/137
EA4ML	445/11/64	846/20/79	1947/30/109	2349/36/140	1707/35/126	1853/32/106

be registered before the contest begins and only single operators are allowed. Intra-club competition between several five-member teams is a good way to increase a club's overall score.

New All Time Records

World: All EA8BH (N5TJ), Q3.5 5B4AGM, Q21 LU7EE, A14 S58A.
North America: 28 3E1DX (DL5XX), 21 ZF2AM (K6AM), L7 HI3K, L14 VE9ST, L1.8 VE3OSZ, Q3.5 VY2MGY/3, Q28 WO4O, Q21 K0AV, AA K3VW, A1.8 VE3ZI. **Africa:** A EA8BH (N5TJ), AA CQ9K (DL2CC), A28 5X1Z (OH5BM), MS TS7N. **Asia:** 28 H2G (5B4AGC), LA EY8MM, L28 VU3VLH, Q3.5 5B4AGM, Q28 UP6F (UN7FZ), A21 OD5/OK1MU.
Europe: 28 9H0A, 14 OH2BH (OH1WZ), L14 3Z9XCN, Q28 G4EDG, Q21 LY5A (LY2PAJ), MS RU1A. **Oceania:** L21 VK4EMM, A21 WH7/N6ND. **South America:** LA PX2W, L3.5 YV1OB, L21 CX5AO, Q7 LU7HHE, Q21 LU7EE, Q14 LU1FAM. **Japan:** All JH4UYB, L21 JH9KVF, QA JR4DAH, Q28 JR3RWB, A21 JS3CTQ, MS JE4VVM.
USA: All K5ZD/1, 3.5 W1MK, 28 W4VZ, 21 K2SS/1, LA K1RO, L7 KV0Q, L28 N2BA, L21 N4MO, QA K3OO, Q28 WO4O, Q21 K0AV, AA K3VW, A28 N2EE.

Special Mention

The contest was made more interesting by the DXpeditions of the following stations. How many did you work?

C6/WA3WSJ, P3A, TS7N, EA6IB, PJ2T, AH2R, GJ2A, AF2NT, J3G, J75KG, NU2K, LX/DL4SDX, HB0/HB2LF, 8Q7WVW, VE9/ K1JB, CN8WW, HC8N, A61AJ, 9G5AA, J3A, YJ0V, V26K, T15N, P29VPY, J79GU, EA8/ DJ1OJ, KH6/W6PH, CT3/DL2RUM, ZF2SA, J8/F6AUS, ZK1VVV, C6AKP, C56VB, V26JT, HI9/DL2DXA, FG/N0JK, EA6/DL9GFB, VP9/ NC8V, 3W2LWS, PJ4/WN7T, CT3/DL2MDU, HK0ER, CT3/DL7VFR, 3A/HB9APJ, OX/ LA5KW, ZF2LA, KH6/W7DRA, ZF2RR, EA8/ DK3KD, EA6/DL8NBY, OH0N, KH7/W5MYA, KH7/N5CR, MJ0ASP, CQ9K, HB0/DJ0IP, 5X1Z, WH7/N6ND, EA8BH, P40E, 3V8BB, CT3BX, 8P9Z, D4A, PZ5JR, VP5GN, V8A, 9M6NA, OH0Z, 9M6AAC, ZB2X, EX/UA3AGS, C6AKW, OH0R, OX/N6ZZ, ER0ND, T88JA, 6Y7A, BW2000, NH7/N6HC, J45KLN, IH9P, KP2/OK1DXB, 3E1DX, NP4A, KP2/OK1TN, OH0V, 4X/OL7D, ZX5J, ZF2AM, OT0A, 9M8Y, XV9SW, A61AO, OH9W, NH0S.

Comments

This year there several changes in the rules. Please look in this issue on page 52 and at <<http://www.cqww.com>> and <www.cq-amateur-radio.com>

com> for the full rules. In many cases the rules appear abridged in publications other than CQ, so please look at the full rules on the web pages. The changes will appear in bold or italics. The most significant change is the announcement of a power limit in the high power category. The second change is a clarification by changing the title of a category. The assisted category is now called "single operator with DX spotting net." This was necessary due some ops thinking that assisted meant they could have assistants helping them, which is not allowed.

A comment must be made about the words "single operator." It means ONLY one operator, not "one operator" looking for multipliers, "one operator" running, and "one operator" on another band. This describes a multi-multi category and that is allowed, but any of the single operator categories allow only ONE person. A few entrants on CW were found to have claimed single op but had one or more persons helping them. This is not obeying the rules, and these entrants have been notified that their scores will not count. Play the game fairly. Your competitors are counting on it.

The cabrillo format sure makes life easy for us as we try to compile the results. All the necessary information can easily be gathered—not so with a non-cabrillo summary. Please submit your log as a cabrillo-formatted log and send it via e-mail: for SSB to <ssb@cqww.com> and for CW to <cw@cqww.com>. It would be helpful, if you have used a computer in the contest, to take a few minutes and send in your log via the internet. It is easy and cheaper than mailing. If you do not have direct access maybe a friend of yours does and you can send it that way.

The overall skill of testers who submit an electronic log is improving every year. It is very encouraging to see such improvement. The UBN reports that each entrant can retrieve can provide a way for each entrant to improve. We receive hundreds of letters each year from entrants asking questions and passing along their thanks for this special service that the CQ WW CC provides. Let us know if we can help you out. We are responsive and all of us are experienced testers.

Thanks

First of all, the Contest Committee wants to thank you, the entrant, for taking the time to send an electronic log. This year we received a very high percentage of them.

None of the results would possible without the efforts of the 40 or so people behind the scenes who make it happen. The CQ WW e-mail robot was set up and is maintained by John, K2MM. Once you send your log and summary to either <ssb@cqww.com> or <cw@cqww.com>, it is processed, decoded, and massaged by Larry, N6TW. Larry has put in many hours to make the log processing efficient and accurate. Dick, N6AA, makes the call database as accurate as is humanly possible. This process takes a lot of N6AA's time, and the CQ WW continues to be state of the art in score analysis, mostly due to Dick's efforts.

The log checkers are K1DG, N3ED, K6NA, N6ZZ, N9RV, N2NC, K3VW, and K3LR. When we receive disks that are in some strange format or are damaged, a group headed by W3ZZ, N5NJ, I2UIY, and JE1CKA solves these problems. In addition to log checking, Phil, N6ZZ, serves as a sanity check at each stage of the creation of the master database.

Each year I rely on the sage advice of our special advisors: K3ZO, N2AA, N8BJQ, G3SXW, S50A, KR2Q, and N5KO. The CQ WW uses the constantly updated software developed by Tree, N6TR, in order to



Aerial photo of the N5TW QRP station.

TROPHY WINNERS AND DONORS

**SINGLE OPERATOR
ALL BAND
World**
EA8BH (Opr. Jeffrey Steinman, N5TJ)
Donor: Albert Kahn, K4FW – W9IOP Memorial

**World Low Power
V26K (Opr. Joseph Trench, AA3B)**
Donor: Slovenia Contest Club

**World QRPp
Richard Saeger, K300**
Donor: Gene Walsh, N2AA

**World Assisted
Charles Fulp, K3WW**
Donor: Snake River Contest Club

**USA
Randall Thompson, K5ZD/1**
Donor: Frankford Radio Club

**USA Low Power
Mark Wilson, K1RO**
Donor: North Coast Contesters

**USA – Zone 3
W6EEN (Opr. Doug Brandon, N6RT)**
Donor: Bill Fisher, W4AN

**USA – Zone 4
W9RE (Opr. Patrick Barkey, N9RV)**
Donor: Bill Fisher, W4AN

**Canada
VE2IM (Opr. Yuri Onipko, VA3UZ)**
Donor: Jim Fisher, VE1JF

**Carib./C.A.
8P9Z (Opr. John Laney, K4BAI)**
Donor: Chuck Shinn, W7MAP

**Europe
OH0Z (Opr. Juha Tuovinen, OH1JT)**
Donor: Edward Bissell, W3AU

**Europe – Low Power
SQ6Z (Opr. Bogdan Chorazyk, SP3RBR)**
Donor: Scott Jones, N3RA & Tim Duffy, K3LR

**Russia
Stan Pankov, RW1ZA**
Donor: Roman Thomas, RZ3AA

**Africa
(Second Place)
3V8BB (Opr. Hrane Milosevic, YT1AD)**
Donor: Gordon Marshall, W6RR

**Asia
Chris Dabrowski, A45XR**
Donor: Chuck Shinn, W7MAP

**Japan
Masaki Okano, JH4UYB**
Donor: Japan Crazy Contesters Club

**Japan – Low Power
Nobuhiro Iwasa, JH8SL3**
Donor: Western Washington DX Club

**Oceania
9M6NA (Opr. Saty Nakamura, JE1JKL)**
Donor: Peahi Contest Club

**South America
P40E
(Opr. Jose Carlos Cardoso Nunes, CT1BOH)**
Donor: Venezuela DX Club

**SINGLE OPERATOR, SINGLE BAND
World – 28 MHz
Chris Burger, ZS6EZ**
Donor: Joel Chalmers, KG6DX

**World – 21 MHz
ZX5J (Opr. Simone Candotto, IV3NVN)**
Donor: N5JJ Memorial (Don Busick, K5AAD)

**World – 14 MHz
4M5X (Opr. Scott Cronin, W4SO)**
Donor: W2JT Memorial (North Jersey DX Assn.)

**World – 7 MHz
IH9P (Opr. Martin Huml, OK1FUA)**
Donor: Alex M. Kasevich, VP2MM

**World – 3.5 MHz
Robye L. Lahlum, W1MK**
Donor: Fred Capossela, K6SSS

**World – 1.8 MHz
A61AO (Opr. Alexander Lounev, RV6LNA)**
Donor: Kenneth Byers, Jr., K4TEA

**USA – 28 MHz
Bill Tippett, W4ZV**
Donor: Wireless Institute of the Northeast

**USA – 21 MHz
David Donnelly, K2SS/1**
Donor: Wayne Carroll, W4MPY

**USA – 14 MHz
Warren Semon, N7CW/8**
Donor: Northern Illinois DX Association

**USA – 7 MHz
David Blaschke, W5UN**
Donor: W6AM Memorial (Jan Perkins, N6AW)

**USA – 3.5 MHz
(Second Place)
William Gillenwater, K3SV**
Donor: Bill Feidt, NG3K

**USA – 1.8 MHz
Bruce Clark, K1FZ**
Donor: Dave Patton, NT1N & Mark Obermann, AG9A

**Canada (28 MHz)
Lajos Laki, VA3RU**
Donor: Radio Amateurs of Canada

**Carib./C.A. (28 MHz)
3E1DX (Opr. Stefan Radtke, DL5XX)**
Donor: Snake River Contest Club

**Europe – 28 MHz
OH0V (Opr. Jukka Klemola, OH6LI)**
Donor: Jay Pryor, K4OGG

**Europe – 21 MHz
Jiri Pesta, OK1RF**
Donor: Robert Naumann, N5NJ

**Europe – 14 MHz
OH2BH (Opr. Ilkka Korpela, OH1WZ)**
Donor: G3FXB Memorial (Maud Slater)

**Europe – 7 MHz
YT7A (Opr. Laslo Palfi, YU7GO)**
Donor: Ivo Pezer, 9A3A/5B4ADA

**Europe – 3.5 MHz
4N1A (Opr. Ceho Dusan, YU1EA)**
Donor: K3VW Memorial (Frankford Radio Club)

**Europe – 1.8 MHz
Mark Demeuleneere, ON4WW**
Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ

**Japan – 21 MHz
Kenji Koishi, JH3AIU**
Donor: DX Family Foundation

**Japan – 14 MHz
Shoji Ebishima, JH1AZO**
Donor: Mitsuhiro Nishimura, JA7WME

**MULTI-OPERATOR, SINGLE TRANSMITTER
World
P3A (Oprs. RA9JX, RZ9UA, UA3AB, RW9UW)**
Donor: Anthony Susen, W3AOH

**U.S.A.
K1KI (Oprs. K1KI, K1CC, K1ZZ, W1RM)**
Donor: Douglas Zwiebel, KR2Q

**Canada
VE6SV (Oprs. VE6SV, VA6EA, VE6EZ,
VO1CV, VE6NAP, VE5FN)**
Donor: Eastern Canadian DX Assn.

**Carib./C.A.
ZF2NT (Oprs. N6NT, W6CYX)**
Donor: Octorino G. Villa, PY2KC

**Africa
TS7N (Oprs. DJ5BV, DJ7IK, DJ9CB,
DK7YY, DL1EFD, DL1GGT, DL7FER,
DL9USA, JH4RHF)**
Donor: Harry Booklan, RA3AUU

**Asia
(Second Place)
UP0L (Oprs. UN9LW, UN9LO, UA9AR,
RK9AC, RA9AA, RZ9AW, RX9CAZ, UA9CDC)**
Donor: Steve Merchant, K6AW

**Europe
RU1A (Oprs. RW1AC, RU1AA, RV1AW, RN1AM,
RX1AA, UA1ACC, RA1ARJ, RA1ARZ, Alex)**
Donor: Bob Cox, K3EST

**Oceania – Pacific Rim
AH2R (Oprs. JG3RPL, JI3ERV, JH0USD, JR7OMD)**
Donor: Vienna Amateur Radio Club – 4U1VIC

**South America
PJ2T (Oprs. KP2L, KU8E, W0CG)**
Donor: Araucaria DX Group

**MULTI-OPERATOR, MULTI-TRANSMITTER
World
CN8WW (Oprs. DL8WPX, DK1BT, HA0DU,
DF3CB, DL3DXX, DK2GZ, S51TA, LY1DS,
DL1HCM, DL2MEH, DL5LYM, DL2OAP,
DL6FBL, DL2HBX, DJ9MH)**
Donor: K2GL Memorial (Doug Zwiebel, KR2Q)

**USA
KC1XX (Oprs. KC1XX, N6HB, W1FV, N6MJ,
K1GQ, DL7ALM, N3RD, K1TR, AD1C)**
Donor: N6RJ Memorial (Bob Ferrero, W6RJ)

**Europe
OH2U (Oprs. OH2BVI, OH2FT, OH2HE, OH2IW,
OH2JA, OH2JQS, OH2JTE, OH2LUR)**
Donor: Finnish Amateur Radio League

**Japan
JA5BJC (Oprs. JA5BGX, JA5BJC, JA5FDJ,
JH5FIS, JH5RXS, JR5JJAQ)**
Donor: Ryoza Goto, JH3JYS

**WORLD – SSB/CW COMBINED
CN8WW: 148,216,944**
Donor: Alpha/Power, Inc.
**JAPAN – MULTI-SINGLE SSB/CW COMBINED
JH7PKU: 13,372,033**
Donor: Vienna Amateur Radio Club – 4U1VIC

**CONTEST EXPEDITIONS
World Single Operator
FY5KE (Opr. Jacques Saget, F6BEE)**
Donor: Yankee Clipper Contest Club

**World Multi-Single
TS7N (Oprs. DJ5BV, DJ7IK, DJ9CB, DK7YY,
DL1EFD, DL1GGT, DL7FER, DL9USA, JH4RHF)**
Donor: Carl Cook, A16V

**World Multi-Multi
HC8N (Oprs. AA6RX, AG9A, K1EA, K5TSQ,
K6AW, K6BL, KM3T, N5KO, N5RZ, VE3EJ,
VE7ZO, W2VJN, W6NL)**
Donor: Bill Schneider, K2TT

**SPECIAL – SINGLE OPERATOR AWARD
World SSB/CW Combined
P40E/KH7R: 24,418,890**
(Opr. Jose Carlos Cardoso Nunes, CT1BOH)
Donor: Hrane Milosevic, YT1AD

**World All Band: Under 21 years old
Rafael Oliveira Martins, PY2NDX**
Donor: Chuck Shinn, W7MAP

**CLUB
World SSB/CW
Yankee Clipper Contest Club: 661,047,210**
Donor: W1WY Memorial (CQ Magazine)

**Non-USA SSB/CW
Bavarian Contest Club: 235,943,333**
Donor: N6AUV Memorial
(Northern California Contest Club)

create the database. The DX advisors are CT1BOH, DL6RAI, EA3DU, F6BEE, G3SXW, RA3AUA, OK2FD, I2UIY, JE1CKA, OH2KI, ON6TT, PY5EG, S50A, UA9BA, and VE3EJ.

Congratulations to all the winners, and join in the CQ WW fun in 2001!

73, Bob, K3EST

DX QRM

Changes in transmitting antenna radiated noise into Europe/North American Beverage. Extremely heavy static crashes the second night added to receiving problems. Since the contest have a new Beverage for that direction with 10 dB S/N improvement over the old Beverage... **4X3A**. Currently this contest isn't over yet. However, I submit my summary, CU on my love, 10 meter band!... **7K2PBB**. Second contest with my new antenna setup on 28 MHz. Fun to notice that the pile-ups were rather easy to get through. The U.S. condx were very nice this time and I enjoyed the openings... **752E**. This was our first CQ WW CW outside of DL. We had much fun and hard work to handle the pile-ups under strong QRN/QRM. Hope we have next year a nice trip again... **8Q7WW**. Excellent band conditions with lot of good DX and tremendous conditions... **9A2EU**. Since I have to work even Saturday morning, missing more than 5 hours to QRV... **9M2JI**. My first 48-hour contest without sleep... **9M6AAC** (Op: **OH1NOA**). Many thanks to 5B4ADA and XYL for excellent hospitality. Not sleeping before the contest is a BIG mistake. Many thanks to all the callers... **C4W**. My antenna was only 80 m long off-center-fed dipole 8m above the ground... **C56VB**. DX, Sunshine, and Key Lime Pie. What a way to spend a week! My thanks to all in the contest. S&P all the way. My wife, KD6VKN, thinks this is an RF burn, not a sun tan. Thanks to Steve Rutledge, NJ4JQ, for a great place to vacation... **C6AGY**. This contest is always fun. Enjoyed being asked to QSY by likes of DF0HQ, HC8N, EA8BH, etc... **C6AKP**. Poor antenna condx on low bands. A pleasure to work so many excellent CW operators!... **DL2MDU**. Had a lot of fun during my first QQQW CW! Hope to meet you in a 2001... **DL7VGN**. My baby seven days old kept me very busy and away from the radio... **EA1AK**.

WOW!... **EA8BH** (Op: **N5TJ**). This time I decided to sleep during the night and work multi-band, earlier just have worked 40 and 80m. Had fun but my Butternut on 80 is not working OK, so if I make same entry next year I have to improve my low band antennas. Had fun but somehow the 10m didn't work for me either. See you next year... **EA8CN**. My rig stinks with a wide open FI passband. I guess I'll build a new contest-grade one for year 2001. Torture gizmo: President Lincoln (Uniden 2830) at 4W Antenna: 5/8 CB GP vertical... **EC5ACA**. Thanks for another great contest... **E5DI**. Struggled a bit of first day, my mult score was way down as usual although my QSO total was okay. Lots of work on the second day got me a more respectable mult total. Seems like a great silence has descended on Africa in recent years, except of course for a couple of mega-stations, a connection I wonder?... **E6FR**. ALL antennas were broken by an improbable glaze ice on Sunday in the afternoon... **ER0ND**. A great contest—again. DX condx on 10 very good by WW... **ES1CW**. It was attempt to make a good result as low power entry all bands. Last year did very well as SOSB 28 LP. Very satisfied with result especially because it is higher than my high power score in 1998... **EY8MM**. WX was very bad in the southwest France. Overcast and rainy. Antenna vertical Gap Titan 10–80m and Windom 80m. I have listened many stations from Asia but not a lot of QSOs. Propagation was good from my QTH to North America. Thanks to all for have some fun this weekend... **F5ICC**. Thanks to all big guns who can hear a small QRP station in the noise of the 40m band!... **F5LEN**. TR a bit too clever for its own good (or ours!!), and DX cluster reliable system... **F5VEV**.

Sunday's solar flare was terrible. It was impossible to compete in such bad conditions. I would like the sunspot count to be a bit LOWER... **F6JSZ**. Always a very interesting contest. We do appreciate the effort of the organizers... **F8KHZ**. Enjoyed the short amount of time I was able to operate. Fitting in an AGM then a dinner dance didn't help! Band conditions were very good and I was able to work new countries with my modest station. Thanks for organising the contest... **G0MRH**. Nice steady contest, pleased with the multipliers... **G0MTN**. A single band entry only, 28 Mhz was a dream, a real live wire. Conditions to VK were FB... **G0RORH**. Good contest, good conditions. At one time I could hear and work DU from the east and HC8N on the back of the quad. The severe gales in the UK meant that antenna was a continuous worry. Suppressed it lasted the contest... **G3KWK**. As always a great time with fair condx for QRP. Beat last year's Q's but not points. Roll on next year... **G3LHJ**. A fun contest with even more fun caused by the disturbed conditions... **G3LZQ**. Great conditions, great fun, but I notice an increasing tendency for some stations to send their call signs a large number of times when trying to break a large pile-up. All it does is slow down the DX stations' QSO rates because of the QRM created!... **G3NKS**. Had to work and so missed much of the event. I retire in two years, so things should get better!... **G3UFY**. Operated about 40 hours! S&P mostly. Fourth year running and still improving using the Elecraft K2 at 5w output + Butternut HF6V/40m Delta Loop... **G3VPW**. Mults seemed a little harder to come by this year but to compensate, there was more apparent activity. 160m was superb just before dawn on Saturday: over 40 stateside QSOs in the log and in quick time too!... **G3WGV**. After single band 15m last year, it was back to all six for 2000. There's nothing to compare with the SOAB category. I thought I was going to break 4k QSOs but then the flare hit. Found some unusual propagation in those last few hours of the contest! Looks like the semi-rare OH0 is leading Europe this year; you just can't compete from plain old G... **G4BUO**.

CLUB SCORES

DX	
Bavarian Contest Club (DL)	235,943,333
Rhein-Ruhr DX Assoc. (DL)	186,010,305
Contest Club Finland	181,365,709
Marconi Contest Club (I)	91,915,760
Russian Contest Club	68,470,918
Kaunas Technical University RC	45,638,592
YU Contest Club	35,741,242
Latvian Contest Club	32,135,945
SP DX Club	30,664,113
Araucaria DX Group (PY)	29,687,473
Ural Contest Group (UA9)	29,271,205
Chiltern DX Club (G)	26,568,402
UA2 Contest Club	23,675,461
LNDX (F)	22,208,264
Ukrainian Contest Club	22,195,537
Croatian Contest Club	21,243,398
Vojvodina Contest Club (YU)	18,373,339
Aphrodite Contest Group (5B4)	18,322,789
Lithuanian DX Group	18,270,753
Top of Europe Contesters	17,310,043
LA Contest Club (LA)	15,929,323
Japan Crazy Contesters	15,364,386
Moscow Contest Club	14,452,888
LU Contest Group (LU)	13,771,801
TuPY (Brazil)	11,626,275
Czech Contest Club	10,423,960
Sky Contest Club (YU)	10,286,289
British Columbia DX Club	9,835,994
North of Scotland Contest Group	7,597,220
Z30M Club	7,550,043
Jiangsu DX Club (BY)	7,502,716
GACW (LU)	6,629,153
Danish DX Group	6,498,571
Hungarian DX Club	5,649,477
Kiev Contest Group	5,385,130
Belarus Contest Club	5,231,797
Amateur Radio Moldova	4,332,020
Berlin DX Group	4,048,372
Fox Contest Club (YU)	3,952,824
Crimean Contest Club	3,905,232
Low Land Crazy Contesters (PA)	3,800,921
Outback DX Club (SM)	3,691,800
Koryazhma DX Company (UA10)	2,762,327
Alberta Clippers (VE6)	2,707,829
Central Siberia DX Club	2,508,895
ZCC (S5)	2,437,895
Vologna Radio Club (UA1Q)	2,218,772
Ferrara DX Team (I)	1,549,418
Sarejavo Contest Group (T9)	1,477,981
SP Contest Club	1,467,407
No. 13 (EA1)	1,422,397
Shakhan Contest Club (UA6)	1,348,942
South German DX Group	1,231,424
Ivanovo DX Club (UA3U)	1,185,575
GPDX(CT)	1,120,846
Radio Luxembourg	1,071,816
Amsterdam DX Club (PA)	994,818
Guara DX Group (PY7)	947,067
North Patagonia DX Group (LU)	797,341
Western Siberia DX Club	741,812
Taganrog Contest Club (UA6L)	675,181
Globus Contest Club (UR)	640,223
Geo DX Group (DL)	620,088
YO DX Club	602,985
Tallinn Radio Club (ES)	554,507
CW Sao Paulo (PY)	501,488

Foronda Radio Club (EA2)	455,445
QRU Club (UA3X)	444,864
YU DX Club	421,254
Domzale Radio Club	328,305

USA

Yankee Clipper Contest Club	661,047,210
Frankford Radio Club	452,155,937
Potomac Valley Radio Club	223,060,882
Society of Midwest Contesters (W)	93,542,265
North Coast Contesters	83,330,011
Northern California Contest Club	73,596,778
Southern California Contest Club	61,496,895
Florida Contest Group	55,251,567
North Texas Contest Club	50,261,993
Southeast Contest Club	35,143,233
Mad River Radio Club	36,765,909
Rochester DX Assoc.	28,165,064
Minnesota Wireless Assoc.	27,784,564
Tennessee Contest Group	24,318,990
Texas DX Society	22,636,289
Western Washington DX Club	21,005,818
Central Texas DX & Contest Club	19,823,838
Willamette Valley DX Club (W7)	16,978,822
Southwest Ohio DX Assoc.	14,890,847
North Florida DX Assoc.	14,053,369
Carolina DX Assoc.	12,494,946
Eastern Iowa DX Assoc.	9,055,128
San Diego DX Club	8,635,991
Order of Boiled Owls New York	8,234,318
Hudson Valley DX & Contest Club (W2)	7,759,318
Kentucky Contest Group	6,586,730
Oklahoma DX Assoc.	6,583,172
Contest Club Cambria (GM)	6,495,635
Grand Mesa (W0)	5,800,384
Mile-High DX Assoc. (W0)	5,459,096
Central Arizona DX Assoc.	5,279,201
Central Florida DX Assoc.	4,727,121
Southern California DX Club	4,123,803
Great Lakes DX & Contest Club (W8)	3,620,963
Mother Lode DX & Contest Club (W6)	3,521,553
Green Valley ARS (W0)	3,209,537
Boring ARC (W7)	3,193,924
Kansas City DX Club	2,243,538
Western NY DX Association	2,239,281
Salt City DX Assoc. (W2)	2,201,069
Pike's Peak Contest Club (W0)	2,024,240
American Red Cross ECS (W2)	1,907,506
Northwest Florida DX Group	1,428,483
Yegua Valley Contest Club (W5)	1,306,490
Athens County ARA (W8)	1,208,100
California Central Coast DX Club	1,175,791
Southeast DX Club	1,114,340
Northern California DX Club	946,172
West Park Radio Ops (W9)	878,451
Mt. Toppers ARC (W6)	867,162
Metro DX Club (W9)	828,495
World Radio Staff RC	803,519
Northern Arizona DX Assoc.	651,697
Mississippi Valley DX & Contest Club	3,141,561
River City Contesters (W6)	581,153
Northrop-Grumman Radio Club (W6)	330,131
Heartland DX Assoc. (W0)	206,544
Everglade ARC (FL)	158,802
Chautauqua County Contest Club (W2)	140,918
South Jersey Radio Assoc.	31,411

First time entry. Really enjoyed it. Usually do it with the J45T team on Rhodes. Is hope to be there next year. **G4RCG**. Another great weekend—10m just FB. Wish I could get something better for antennas than the dipoles... **G5LP**. Age 84. Tied to beat my last year's score (best ever). Though the number of my QSOs this year was nearly as high, the points and mults were much lower than last year. Felt condx not so good... **G6QQ**. Long in the tooth and couldn't keep it up for 48 hours. A few years ago yes, but not now Hi... **GIBGDF**. Another enjoyable contest. Wall to wall US and EU stations. Will have to try harder next year... **G1ASNC**. We Finns once again headed for another QSO-rich DX site... **G2JA**. Thanks to my family for allowing me the time to enter this year. Pleased to work CN8WW on 160m. QRP is hard... **GW0VSW**. The very best

and most stable propagation through a 48-hour contest I have ever met in my ham life since 1961. Pity I had to share with other things... **HA4YF**. Should have had better score, but had to take time out to officiate at three ice hockey games. Operated by "hand" but typed all into TR Log as I went along... **HB2D0T**. It was my first major contest experience. CONDX was great... **HL2VAU**. 8 hour electric power outage on first day of contest prevented full effort... **HS0AC**. Many thanks to everyone who gave me points and called me! And also for patience because of huge pile-ups. The contest was fantastic and I am looking forward to next year SO SB 40m. Only seamy face of the contest is declared Unassisted category of some SOSB stations and their multiplier-score compared to big multi-op stations or big Assisted stations. Shortly "packet cheating."

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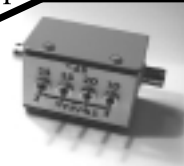
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Results (from page 20)

TEAM CONTESTING

1. Neiger's Tigers Team #5: 53,586,473. EA8BH(N5TJ), KH7R(N6TJ), P40E(CT1BOH), 8P9Z(K4BAI), JY9NX (JM1CAX).
2. Team Sunshine: 32,035,391. OH0Z(OH1JT), ZB2X(OH2KI), CT3BX(OH2MA), 9M6AAC(OH1NOA), PZ5JR(OH0XX).
3. Straight Key Knights 1: 29,918,646. N2NT, K5ZD, K1AR, K2UA.
4. Yu Team 1: 25,052,787. 3V8BB(YT1AD), YT1AD(YU7NU), YU7KW, YZ7AA, YT7R(YU7BW).
5. Straight Key Knights 2: 25,022,305. W6EEN, K1DG, W4AN, K5TR, VP5GN.
6. Neiger's Tigers Team #2: 23,463,091. RK0AXX(N6AA), OX/N6ZZ, C6AKW(K3TEJ), 6Y7A(KN5H), CQ9K(DL2CC).
7. Sky Thunderstorm: 22,297,999. VE2IM, FY5KE, LY2TA, S56A, YT3T.
8. Neiger's Tigers Team #4: 20,610,333. W9RE(N9RV), N2IC/0, K8DX, K8GL.
9. Neiger's Tigers Team #3: 20,578,858. KQ2M/1, V26K(AA3B), T15N(K9NW).
10. CCF Aurora Ionizers: 13,720,460. OH1F(OH1MDR), OH6NIO, OH0R(OH2PM), OH6Y(OH6YF).
11. Tennessee Contest Group Team Uno: 12,881,697. NA4K, K4LTA, W9WI, WO4O.
12. Sky Heavy Rain: 9,363,861. K8DX, G3TMA, RZ9HT, RA6LBS, 4N1FG.
13. Vojvodina Contest Team: 9,074,490. YT7R, YU7CF, YU7WJ, YU7CB, 4N7A.
14. Neiger's Tigers Team #1: 8,146,795. IH9P(OL5Y), WI9WI, W7GG, K6LA.
15. Florida Contest Group: 7,593,799. N2AN(WC4E), K1PT/4, N4IG.
16. LDXG Team: 7,422,524. LY2IJ, LY2MM, LY2MW, LY5W.
17. Neiger's Tigers Team #6: 4,882,108. W6TK, NA2U, OK1QM, VE5ZX.
18. Sky 10M Beacons: 4,506,288. EA9LZ, FM5BH, W4ZV, OK2RZ, YU1EW.
19. Aurora Artillery Division: 3,595,693. OH3BU, OH8L(OH8LQ), OG3M(OH1MM), OH2BH(OH1WZ).
20. CCF Aurora Ticklers: 3,437,513. OH9W(OH2BCI), 5X1Z(OH5BM), OH6AC(OH6CS), OH0N(DJ2QV), OH0V(OH6LI).
21. Tennessee Contest Group Team Duo: 2,909,248. NN4T, N4DW, KE4OAR, N4KN.
22. CCF Self-Control: 510,191. OH8CW, OH1EH, OH2LU, OH8VJ, OH9A(OH3WW).

high level of competition that keeps us going! Antenna projects for next year began this afternoon...**K1IR**. Good to meet "old friends" again. Best conditions I've ever heard...**K1LI**. Didn't do quite as well as last year, but had some great fun, as usual...**K1RC**. Had a super time! CW is always my favorite mode. I had a scare on Sunday when the bottom dropped out of the bands. It sprang back quickly...**K1RV**. All running stations...PLEASE sign your call with each QSO!... **K1TH**. Let's not invite that new op Sid next year!...**K1TTF**. Another excellent contest. WW CW is the best... **K2FU**.

Out of hospital for only 3 days after being laid up for 5 weeks. Sure fire cure for anything...**K2NJ**. What a remarkable contest! CQWW CW is the best of the best. Even with weird conditions, it looks like I finally achieved my goal of making the U.S. Top 10 box! Thanks for the great contest and the great log checking...**K2UA**. First time on 80 single band. Biggest thrill working UN7CW long path on Sunday evening. It rained all Saturday evening, not good...**K3SV**. First time using a computer for logging! TR Log worked very well...**K3SW**. 40 & 80 meters only from home in a CC&R neighborhood. Anything is possible!...**K4AAA**. Asian stations need to look for LP USA! I heard you!...**K4OJ**. I'm sure rusty with my 40 wpm copy. May need a computer CW copy device!...**K5DI**. Answered a CQ—three stations sent me an exchange. Less work. More filling...**K5VG**. All bands were great! This was so much fun I didn't want to stop, even after 48 hours in the chair...**K5ZD/1**. Working HZ1HZ before most folks and 3W on one call...**K5ZQ**. Fun, but too many US stations calling "CQ CONTEST"!...**K6LDX**. Work and baby sitting the granddaughter took priority over "THE CONTEST" this year...**K7FL**. Great conditions. WAC and almost DXCC in one weekend. QRP. Amazing!...**K7RE**. Some really outstanding conditions on 10 this year, especially on Sunday. Even the aurora helped with paths into northern Europe Sunday afternoon...**K8IR**. Aurora killed 80m on second night...**K8MD**. Worked DX better than stateside with my new HB 2-ele beam...**KA6SGT**.

First time I've ever managed WAC in a single contest. Ten meters was really hot all through the period. First time I've ever managed WAC in a single contest...**KA9NZI**. Sure had fun this year. Hope to see you all next year...**KB9KEG**. Was feeling pretty good until the SID hit Sunday morning. After that is was grinch time...**KC7V**. Limited operating time but unlimited fun. Worked a few new ones and new zones...**KC7WUE**. CQWW = Euphoria!...**KC8FS**. My first CQ WW and much fun to see how far QRP can go!...**KC7BOD**. First contest, had a great time!...**KD7GTI**. My first contest ever. Used K2 transceiver and double-zep antenna. Had a great time and admired the good conduct on the bands...**KE4R**. Actual operating time was 28:17. The bands were great until 1640 UTC on day 2 when coronal ejection particles from a prior solar flare must have arrived. I worked a lot of new countries and had a really good time...**KE5C**. Personal best score ever. Hope conditions hang in there next year!...**KF2O**. Running QRP was a chore. It was a thrill to have a big station in DX land, stumble out of full power automation, and listen for my call. Could almost feel them leaning into the speaker...**KF8JW**. Great contest to revive a newly relicensed ham. WA6VPH now KG6ECI...**KG6ECI**. I never sent in my CW logs. This one is for K3EST for begging on CQ Contest...**KITWX** (Tks!—K3EST). Did not think the bands would hold out as long as they did but was certainly a nice surprise when they did. That huge RF sponge made quite an appearance Sunday night. First time with LP and did not notice any huge differences other than the time it took to break a pile-up. Another fun event...**KL7AC**. Moved and used broadband wire antenna at 40 feet until can get Yaqui back up, but thank goodness the DX had good ears...**KN4Y**.

What a contest! With all the flares we had Thursday, Friday, Saturday and "the big one" on Sunday, I kept waiting for cndx to get worse like CQ WW SSB. It never happened! So much for strategy. A great thing about great competition is that you

can't win with equipment failures, illness, operating mistakes, etc. Like the Super Bowl, you have to be "up" at all times and make all the right moves and even then there is still the unexpected (i.e., "the flare") and more suspense. This was the first CQ WW contest out of the last five that there were no major station failures during the contest. Amazingly, I was even able to come into the contest well-rested instead of the usual Friday exhaustion. This combined to really let me see what I and my incomplete station could do together. Clearly all my work on the high bands has paid off. Now, thanks to the scores of K1AR & K5ZD, I can plainly see where the work still needs to be done, like putting up a REAL 160 meter antenna and getting my 40-2cd to rotate. I plan to address the low bands this summer and hopefully, next CQ WW CW, I will see the improvement. The great thing about building a station is that you can look forward to score improvement and new levels of "loudness" each year. The great thing about great competition is that it motivates you to improve your skills each year which allows for new levels of accomplishment. Given how hard I work at S & P with SO2R, it still boggles my mind that I never heard a JA or KL7 on 80, or a VK on 40! Much less how I could miss P4 on 20 and my own club member V47KP on FIVE bands! Congrats to 'AR, 'ZD, and NT1N for making this the closest race in years. I hope all you guys will do it again next year...**KQ2M**.

Ten meters before the contest spotty and sigs weak. Ten meters during contest—every freq QRL—sigs strong. Ten meters after the contest—spotty sigs and the Cbers came back to occupy the CW freq not being used anymore. Hmmm!...**KS7T**. Great condx and Great fun, a M/M with 3 stations and only 2 operators makes for plenty of chair time for all...**KV1W**. My first contest. Had lots of fun looking for multipliers. Put in almost 19 hours...**KX2S**. We had some difficulties with the run station computer. Something consumed all the CPU cycles and made the clock run slow. Fortunately, we got it corrected about 6 hours before the end of the contest...**NBDY**. Not enough time for contesting this weekend, but the few hours spent were enjoyable!...**N0HR**. Great condx until the band faded Sunday afternoon. My best yet...**N0XB**. The flare was quite an experience as was the subsequent aurora...**N1MD**. Had fun with verticals on the beach at Cape Hatteras, NC. Now on to using some serious antennas next year...**N2EE**. Still need more antennas!...**N4GN**. Found conditions good but not as good as last year. Look forward to another great test next year. My favorite test of the year...**N4MO**. Fun was had by all, despite the SID that we experienced on Sunday...**N4TO**. New QTH with station and antennas under construction but already a big improvement. No antenna for 160 but HC8N heard me anyway!...**N5AW**. Lost my rotor midway through the phenomenal Saturday morning opening: lost 6 hours repairing it and replacing it on the tower...**N6AR/4**. Broke North American record for QRP on 10 meters...**N6MU**. I am trying to kindle interest in contesting among our club. Enjoyed the contest. Sorry to see the solar flares. Funny that 15 and 20 were severely affected but 10 meters kept on perking along. The numbers are low but whetted the appetites of some new contesters...**N6RV**.

Aurora really killed the low bands for me...**OX/N6ZZ**. Doing assisted on 40 is a real joy. Spent the weekend in some huge pile-ups for semi rare and rare mults. Some of these operators never quit calling. A little more listening and a bit less calling would probably let more get through. Heard several stations get chased away by the constant calling...**N8BJQ**. Had a great time in the QRP category. I still do not have the 80 meter antennas working well, and although I did much better on 80 this year, I still feel there is a lot of room to improve...**N8ET**. First time with contest logging program. Where were VK's/ZL's on 10?...**N8XP**. Saturday night 40 meters was great! I worked HI on 40 for my 49th state. I heard KL7Y on 40 meters, but I couldn't break the pile-up...**N9BOR**. Great contest. Some really good DX. A solar storm as an added challenge...**N9IC**. Away for the holiday, back in time to make a few Q's. Always trying

Table listing codes and values for various countries, including EA5ABU, EA5NU, EA1FBB, EA1BID, EA7GTF, EA7GKJ, EA7GYS, EA1AK, EA4QA, EA1NK/7, EC2ADR, EA4BWR, EC3AHO, EA4CNA, EA1FEL, EA1BSK.

Table listing codes and values for various countries, including UR3QT, UT2QO, UR2E, US6EX, UR4EYN, US6L, UT2FA, UR9JH, USWF, UR6J, US5YA, US2IR, UR3QW, EM7Q, UW7Q, UY2UF, UZ4E, UTSUOC, UT2WU, UZ5M, UR7EU, UR1VT, UR4CWM, UR6QA, UR5XN, UR1IL, UY0ZG, UR7AD, UR3PDT, UWSU, UR7E, UR5SUO, UR3MP, UR5ZI, UR8XJ, UR8IT, UR5LBI, UR5HA, UR5SI, UR5UK, UR5JUY, UR3PA, UT7QF, UR3MWM, UR5XAJ, UT4TA, UR5ZRO, UR5MX, UR5OYA, UR4XU, UR5MID, UR5AQ, UR5OZ, UR1IA, UR2JA, UR5UW, UR5QA, UR7ET, UR5HA, UR3HA, UR5JUM, UR5SP, UR5QS, UR7UN, UR5EF, UR3CMA, UR4QMS, UR5WA, UT1HZM, UR5ITU, UR6ZX, UR5IPM, UR1TA, UR9MM, UR4II, UR3PFX, UR3HC, UR5GM.

Table listing codes and values for various countries, including YZ1Y, YU7HC, 4N1A, YZ6A, YU1KR, YD9A, YZ7AA, YU7CB, YU7WJ, YU1PJ, YZ1EW, YU30NW, YU7WW, YU1HA, YU7KM, YU1RA, YU7TJ, YU1FG, YU7YZ, YU1RX, YK5GN, YK4XY, YK2DP, YK4DC, YK4TT, YK6GH, YK4EMM, YK4XW, YK3TZ, YU1A, YU7HC, 4N1A, YZ6A, YU1KR, YD9A, YZ7AA, YU7CB, YU7WJ, YU1PJ, YZ1EW, YU30NW, YU7WW, YU1HA, YU7KM, YU1RA, YU7TJ, YU1FG, YU7YZ, YU1RX, YK5GN, YK4XY, YK2DP, YK4DC, YK4TT, YK6GH, YK4EMM, YK4XW, YK3TZ.

Table listing codes and values for various countries, including YU1A, YU7HC, 4N1A, YZ6A, YU1KR, YD9A, YZ7AA, YU7CB, YU7WJ, YU1PJ, YZ1EW, YU30NW, YU7WW, YU1HA, YU7KM, YU1RA, YU7TJ, YU1FG, YU7YZ, YU1RX, YK5GN, YK4XY, YK2DP, YK4DC, YK4TT, YK6GH, YK4EMM, YK4XW, YK3TZ.

Table listing codes and values for various countries, including SOUTH COOK ISLANDS, FERNANDO DE NORONHA, TONGA, SOUTH AMERICA, ARGENTINA, PERU, SURINAME, URUGUAY, VENEZUELA, ARUBA, BRAZIL, EAST TIMOR, HAWAII, INDONESIA, NEW CALEDONIA, NEW ZEALAND, PAPAUA-NEW GUINEA, PHILIPPINES, COLOMBIA, ECUADOR.

Table listing codes and values for various countries, including SWEDEN, SM2T, SM5CLE, SM6WQB, SM2CEW, SM3R, 7S0Z, SM6DUA, 7S2E, SM5AHK, SL0W, SK0UX, SM0KX, SM5RE, 7S5C, 7S6W, SM6FUD, SM5BEU, SM6D0I, SM2KAL, SM7EH, SM7BHM, SM0BDS, SM3EAE, SM7KE, SM3X, SM0J, 8S6A, SM7CWI, SM7BJW, 8S7W, SM2EKN, SM5ENX, SK0X, SM5NE, SM6BS, SM7BVO, SM2JEB, SM6CRM, 7S3A, SM7BQX, SM7BUN, SM0W, 8S5X, 8S6W, SM0KCO.

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Table listing codes and values for various countries, including BELAU, BRUNEI, EAST MALAYSIA, ARUBA, BRAZIL, EAST TIMOR, HAWAII, INDONESIA, NEW CALEDONIA, NEW ZEALAND, PAPAUA-NEW GUINEA, PHILIPPINES, COLOMBIA, ECUADOR.

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Table listing codes and values for various countries, including SWITZERLAND, UKRAINE, YUGOSLAVIA, NEW ZEALAND, PAPAUA-NEW GUINEA, PHILIPPINES, COLOMBIA, ECUADOR.

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Table listing codes and values for various countries, including SWITZERLAND, UKRAINE, YUGOSLAVIA, NEW ZEALAND, PAPAUA-NEW GUINEA, PHILIPPINES, COLOMBIA, ECUADOR.

LUXEMBOURG LX/DL4SDX 3,561,844 3649 124 448	UR4LWY 107,184 242 74 158 UR4MWU 98,599 384 49 153	YUGOSLAVIA YZ7A 1,662,595 2286 105 368 YU1INO 157,620 521 56 166	N2RM 21,653,289 8970 191 718 K3LR 21,160,267 8477 200 741 K9NS 17,348,708 7324 197 726 N3RS 16,509,815 7342 179 674 K1TTT 14,287,268 6786 177 689 K2LE/1 13,214,348 6250 177 649 K8CC 11,925,075 5934 175 624 W3PP 11,737,603 5747 176 635 K1RX 11,666,915 5554 174 671 K0RF 11,566,554 5621 189 653 W4MYA 11,354,364 5409 174 654 W8AV 11,258,793 5269 183 636 K5GO 10,277,952 5124 176 620 W0AII/H9 9,671,904 5121 176 616 NZ1U 9,313,546 4620 160 598 NY4A 9,309,226 5503 162 536 NR4M 8,263,842 4541 164 569 N6AW 8,206,055 4530 179 536 K3NM 7,769,454 4294 164 589 W7RM 6,766,200 4026 178 522 K3II 6,319,090 3524 163 582 KV1W 5,313,328 2996 149 515 W8ZA 3,662,120 2246 147 491 W2CG 3,499,994 2007 151 511 WT3Q 2,506,770 1537 144 486 K3DI 1,582,009 1251 109 372	UNITED ARAB EMIRATES A61AJ 36,606,846 15647 211 778	SOUTH AMERICA GALAPAGOS ISLANDS HC8N 44,689,904 17232 199 745
MACEDONIA Z30M 6,047,544 4984 154 542	OCEANIA AUSTRALIA VK8AR 28,017 136 40 59	EAST MALAYSIA 9M6SMT 4,813,824 3386 157 355	J3A 21,195,036 11591 176 618	EUROPE AUSTRIA OE3I 1,957,110 2172 132 402	CHECK LOGS 425MU, AB6E, DK3RED, DK50S, DL/RX3AHL, DL0MPI, DL1DTF, DL1DWT, DL1JFM, DL2AWW, DL2AYJ, DL2HRE, DL2HWI, DL2TG, DL3HTR, DL3JON, DL5CD, DL5DWW, DL5JMN, DL5JRA, DL5KVV, DL5MHR, DL5NA, DL6KWU, DL7VMM, DL7VPE, DL8DZV, EA1CBX, EA3CE, EA3DU, EA4BNQ, EA4KG, EA50I, EW3CW, G0OGN, G3KZK, GD4UOL, HA0LP, HA5AEX, HA5AF, HA7PW, HA7UW, HK3DDD, IS0/YO3RA, K4MX, K5ZR, KF3CV, LA1FW, LA2QM, LA4LN, LA4NE, LA40GA, LA5XQ, LA5ZC, LA7SI, LA7TO, LA8LA, LA8PB, LA9TJ, LU9APM, LW9DAH, LY1FM, LZ1UJ, LZ1VQ, LZ1XZ, LZ2AG, LZ2DD, LZ2PX, LZ2SX, N3EN, OH5FA, OK1DN, OK1DSU, OK2BHD, OK2BOV, OK2CVA, OM0TT, OM5RJ, ON4CJN, OZ4EL, PA0EHF, PA0LU, PA4DO, P7ZAA, PY2SP, PY2YP, PY4OW, PY7OJ, R3SR, RA3AD, RA3WDK, RA9CTK, RK3AF, RK3DZD, RN3FT, RU3DG, RV6BM, RW1QM, RZ3AA, SM0BNK, SM0BTS, SM0XG, SM2SCK, SM5APS, SM5BFR, SM5CVC, SM5MC, SM6BWQ, SM6CDN, SN1A, SP1BLE, SP2DWA, SP2DX, SP3DD, SP4DZT, SP4IGV, SP5ATO, SP5CGN, SP5GNW, SP6BZ, SP6CES, SP7BYM, SP7XK, SP8FHM, SP8HTK, SP8JMA, SP9TH, SQ4GXO, SV5DZX, UA0VM, UA1WAL, UA3AGW, UA4ARL, UA4LFC, UA9JMS, UA9MBX, UN9FB, UR5EJ, UT1EO, UU0JC, UY3AW, VA3TTN, VQ9SS, W5AN, WA2BMH, YN4/SM0HLG, YO3BWK, YO3FOM, YO4ATW, YO5FJ, YO5OAW, YO9DAF, YU1EW, ZS0E (Op: ZS6AJU).
NETHERLANDS PB6X 1,995,455 2481 115 382 PI4ZLD 1,942,468 2203 127 397	NORWAY LA1K 972,283 1728 84 293	GUAM AH2R 8,423,520 4744 167 477	GRENADA J3A 21,195,036 11591 176 618	CZECH REPUBLIC OL7W 6,518,292 5056 162 597	FINLAND OH2U 22,154,854 11419 201 782
POLAND SP3PFR 1,555,905 1862 118 387 HF9KRT 750,692 1111 101 297 SP3KPN 47,784 206 36 102	ROMANIA YR8A 589,006 1283 78 256	NEW ZEALAND ZL6QH 5,541,516 3946 153 378 ZL3CW 3,660,618 3247 129 297	AFRICA GHANA 9G5AA 23,692,130 11180 176 594	DENMARK OZ5W 5,932,500 4801 146 479 OZ5WQ 4,011,120 4072 140 479	GERMANY DF0HQ 19,859,880 11474 189 733
SLOVAK REPUBLIC OM8A 8,745,810 5341 166 636 OM7M 7,978,980 4844 180 672 OM3A 6,462,552 4265 173 631 OM5M 5,571,405 3586 165 640 OM3KHE 268,821 752 68 183	SLOVENIA S57AW 6,782,202 4134 172 626	NORTHERN MARIANAS NH0S 7,846,272 4978 165 391	MOROCCO CN8WW 70,046,436 23390 210 836	ESTONIA ES9C 15,710,400 10628 188 712	HUNGARY HG6N 16,609,584 10511 178 701
SPAIN EA5KM 2,302,479 2818 110 367	SWEDEN SK3W 8,684,572 4548 186 700 8S2F 4,897,065 4310 153 532 SK6M 4,632,432 3794 161 553 SK6QW 620,540 1062 91 289 SL2ZA 458,582 857 83 251	PHILIPPINES 4G1A 1,041,320 1571 99 181	ASIA JAPAN JA5BJC 13,499,895 6592 197 598 JA3YBK 12,361,701 6526 192 545 JK6SEW 3,597,048 2809 153 396 JA2YKA 955,823 1083 118 223	FINLAND OH2U 22,154,854 11419 201 782	LITHUANIA LY7A 12,003,368 8127 178 666
UKRAINE UU7J 6,318,312 4501 182 676 UT9F 2,846,772 2994 147 466 UT7L 2,786,280 2660 151 491 UT0AZA 1,913,601 2898 112 327 UT3IZZ 966,911 1383 99 355	BRAZIL PU3A 788,025 1196 89 196	NETHERLANDS ANTILLES PJ2T 10,215,532 5785 158 495	THAILAND HS0AC 2,733,510 3326 99 291	GERMANY DF0HQ 19,859,880 11474 189 733	SPAIN EA4ML 12,785,300 9147 164 624
MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA UNITED STATES KC1XX 24,386,352 9689 196 752 W3LPL 24,093,155 9496 197 768	NETHERLANDS ANTILLES PJ2T 10,215,532 5785 158 495	SOUTH SHETLAND R1ANF 1,273,158 1962 80 181	YUGOSLAVIA YU1ANT 2,874,190 3645 111 382	HUNGARY HG6N 16,609,584 10511 178 701	YUGOSLAVIA YU1ANT 2,874,190 3645 111 382

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