

# Results of the 2000 CQ WW DX CW Contest

BY BOB COX,\* K3EST

**A**fter 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](http://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](mailto:ssb@cqww.com)> and for CW to <[cw@cqww.com](mailto: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](mailto:ssb@cqww.com)> or <[cw@cqww.com](mailto: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, RA3AUU, 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 reradiated 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...**75ZE**. 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 need 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 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		USA	
Bavarian Contest Club (DL)	235,943,333	Foronda Radio Club (EA2)	455,445
Rhein-Ruhr DX Assoc. (DL)	186,010,305	QRU Club (UA3X)	444,864
Contest Club Finland	181,365,709	YU DX Club	421,254
Marconi Contest Club (I)	91,915,760	Domzale Radio Club	328,305
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		
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...**G14SNC**. 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...**HB2DOT**. 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."

## TOP SCORES IN VERY ACTIVE ZONES

ZONE 3		ZONE 14	
W6EEN	4,958,674	G4BUO	5,426,826
*VA7RR	2,898,432	DL1IAO	5,325,995
W7GG	2,703,624	ZB2X	4,869,000
KC7V	2,530,724	OZ1LO	4,245,948
N7IP	2,337,932	G0IVZ	3,882,900
K4XU/7	2,081,292	DL4MCF	3,839,528
W7UT	1,973,329	GM3POI	3,471,182
*K8PO/6	1,856,274	GM7V	3,444,584
K7ZZ	1,558,917	DJ9DZ	2,847,384
N6CW	1,441,240	DK9IP	2,674,060
ZONE 4		ZONE 15	
W9RE	7,472,178	OH0Z	5,636,403
N2IC/0	5,373,745	SP7GIQ	4,640,184
K5MR	4,362,995	S00A	4,582,743
K8GL	4,010,780	YT7R	4,319,775
N4GN	3,908,230	OH0R	4,262,524
K8DX	3,753,630	OH5CW	4,202,382
N3BB/5	3,527,568	OH1F	4,167,387
VE3AT	3,328,325	HA8JV	3,983,990
K5YAA	3,085,430	S57DX	3,970,525
K9MA	2,981,500	YT1AD	3,781,269
ZONE 5		ZONE 25	
K5ZD/1	8,756,568	JH4UYB	5,395,050
K1AR	8,559,474	JH5FXP	4,990,272
K1ZZ	8,307,600	JA8RWU	3,351,618
KQ2M/1	8,023,296	JH7XGN	3,349,281
K1DG	7,199,169	JA5DQH	3,126,043
W1KM	6,871,806	JA6GCE	2,443,060
N2NT	6,527,500	*JH8SLS	1,906,080
K2UA	6,075,104	*JR4PMX/1	1,789,060
K4ZW	5,643,253	JF1EQA	1,356,820
N2LT	5,574,974	JF3CCN	1,330,020

\*= Low Power

## ZONE LEADERS SINGLE OPERATOR

Zone	Call	Score	Zone	Call	Score
1	KL7Y	4,381,155	21	A45XR	8,786,811
2	VE2IM	7,942,141	22	VU2PAI	2,271,412
3	W6EEN	4,958,674	23	No Entry	
4	W9RE	7,472,178	24	BW2000	1,827,738
5	K5ZD/1	8,756,568	25	JH4UYB	5,395,050
6	XE1RGL	205,014	26	XV9SW	347,760
7	TI5N	6,013,962	27	DX1S	4,886,460
8	8P9Z	9,176,174	28	9M6NA	6,925,457
9	P40E	12,524,160	29	VK6HG	17,520
10	HC2SL	875,892	30	VK5GN	1,270,698
11	PX2W	2,893,267	31	KH7R	6,183,408
12	XQ3ZW	2,338,959	32	A35RK	1,116,310
13	L99D	3,161,248	33	EA8BH	17,949,552
14	G4BUO	5,426,826	34	SU9ZZ	6,423,725
15	OH0Z	5,636,403	35	D4A	7,237,932
16	RW1ZA	3,080,165	36	No Entry	
17	UA9CDV	4,262,622	37	5X1Z	1,121,596
18	RK0AXX	5,208,507	38	ZS6EZ	2,017,800
19	RU0LL	1,933,104	39	FR5FD	2,105,685
20	JY9NX	7,753,179	40	TF3IRA	1,904,158

Luckily my health permitted a few hours of operating...**PA1AW**. It was great fun to work all this DX on 40m with the new Kelemen dipole and 100 watts. Never thought I could work so many stations so easily... **PA1XA**. It was absolutely thrilling. Will be next year on the air again...**PA2DGR**. What a contest! Just listen on the bands what's going on: WOW! Still it's my second favorite contest after the PACC FB WW contest (hi). Thanks for organizing, I really did enjoy operating and had great fun...**PA3BFH**.

Worked with QRP and had a great time! Fantastic operators on the DX side. Found out that high speed CW can be used to break the pile-up...**PA3ELD**. Unable to believe 40 meters was amazing, and 20 even better...**PA2NY**. I made a wrong assumption that condx were bad due to second RX short on antenna input! But it was a fun for 36 hours...**SA6A**. For first time running with two stations and TR software...**S57U**. Well, it is a high time to learn using the keyboard of PC for keying and not for sole purpose of logging. I'll be back!...**S58DX**. Mistake to use my contest call 7S6W. Too many did not see this call as bonifide, should have used SM6DER...**TS6W**. First time working single band. This 7 MHz band is fantastic. I'll be back on this as again as single band! Aurora is NOT needed though. I did miss a lot of zones, why I believe 40mb could need to be worked being in the assisted class to get more multipliers as there is a big decision of whether or not to chase multipliers and leave a good running frequency or stay put and just go for QSOs...**SM6FUD**. I enjoyed only ALS-500M and R-7000+R80 on the beach of the island...**T88JA**. Enjoyed much and put EU, RU, and zone 16 records...**UA3DPX**. We have to say to the XX century a lot of thanks that gave to us wonderful hobby...**UA9BS**. Cool!!!...**UR3PFX**. This was my first CW contest in over 30 years. What kept me away for so long? What a blast! Admittedly having two computers to monitor and send the CW helped greatly to enhance the rusty CW skills. Although an annual family gathering kept me away from the contest for most of Saturday it was still a good way to return to CW contesting. Thanks to everyone for the contact(s)...**VE3BUC**. Nice to catch all continents in just a few hours for the first time...**VE3KZ**. I believe our local packetcluster had a better score...**VE6SV**.

My first serious effort at contesting. I am now hooked!...**VE6TN**. I have not done a CW effort for some time. Sure enjoyed the contest to brush up about a 10 wpm increase to my CW speed. Looking forward to another CW effort...**VE6VW**. Great to operate from the VE6JY superstation. Don is a great host...**VE6WQ**. I am just getting back to using CW after about 20 years absence so there are probably quite a few mistakes in my log. However, the contest was a lot of fun and I am looking forward to the next one...**VE9FX**. G'day to all contesters...**VK4TT**. Still learning about CW. Pity I still lack stamina on this mode! I will get better with time, still pleased to hand out mults! The packet spotting is getting to be very difficult to handle. The massive pile-ups that occur require high level operating skill which may be a turn-off to newbie contesters...**VK5GN**. I love CQ WW, and this contest was the first time I was QRV on 160!...**VU2PAI**. There were a lot of new DXCC countries for me!...**YB1KOR**. This is our first international contest and our low band antennas did not perform well. We will try better in the next contest...**YC1ZTC**. Anything this contest probably be illegal. Imagine snagging a passion fruit from just outside the door. Imagine a freshly-plucked coconut, opened with a machete. Imagine a pineapple bought in the local market that will spoil pineapple back in the states forever for you. Imagine a host that invites, sight unseen, six hams from the opposite side of the world to take over his house for two weeks, 24 hours each day, putting up Montana Dipoles. Imagine having the multipliers come to YOU, and not having to worry about them. Imagine the land of James Michener, a land we decided after visiting there, that he did not exaggerate...**YJ0V**. Just for fun I started to work the contest. Finally it was nice...**Y03JW**.

Boy, am I glad to be back in the CQ WW CW test... it's been almost 5 years since the last time. I had a blast with only 100 watts plus a vertical...**YV5DTA**. Big thanks to the Ayios Nikolaos motorbike club for letting us use their premises as a temporary shack for the weekend. Disaster struck at about 08Z in the form of a severe migraine. I was forced to travel back home (5B4 land) which is fortunately 2 km away. Four crucial hours were lost from 08-12Z being forced to sleep off the migraine. Day 2: I was delighted not to have a repeat performance of the migraine. However a cat had found its way onto the roof, so QRX and get the ladders out to help the poor fellow down! The mults were not so forthcoming on the Sunday, but condx slightly better on day 2. I thought the run rates were good though. Couldn't break 6D2X pile-up on the first day for a double mult, and hoped to catch them on the Sunday but never found them again. Sunday afternoon and I'm looking at the Asian 20m LP record 570k, and my score stands at 500k. Hey, I should have taken this seriously from the start (damn if it wasn't for that migraine on Saturday). I never heard OY or any zone 40 on 20m, same goes for KH6 or any zone 31. USA sounding very auroral both evenings, lots of Americans worked via the aurora, some really weak, yet easily workable...**ZC4DW**. First serious try at 40m single band stopped by bad WX!...**ZS4TX**. Great first CW contest; only looked for new countries but had great fun. Can't wait for next year! New call helped (old call ZS6VER)...**ZS6DX**. A 15 hour power failure, lashing winds, and a broken computer and radio didn't make this my easiest contest ever!...**ZS6EZ**. Long live CW!...**ZS6KR**.

## USA QRM

As always, a great contest. Thanks to FR5FD and P29VGP for making it especially fun! I can't complain too much for running barefoot into single-element antennas less than 10 meters up...**A8BUP**. Used my old Ten-Tec Triton IV at 5 W with a 105 ft. dipole at 40 ft...**AB9DF**. The bands bounced back nicely after the storm hit, but they sure were noisy...**AD5G**. Sure wish folks would send their calls every QSO! Sure is more fun using a logging program!...**A1ZL**. Condo portable—25 watts—thanks all!...**AK6R**. I think it will be many years before we see conditions like we had this weekend during a CQWW contest...**K1AM**. Thanks to my great team. You guys make it all happen. Congrats to our extremely talented and professional competitors. It's the

(Continued on page 100)

Operation time: 40 hrs.; S&P time: 8 hrs. 20 min; Ant: 4-Square, dipole @ 17m, vertical...**IH9P**. Really an excellent experience! This is my first contest SOSB at my QTH. Please accept my very best wishes! Thanks for the nice contest...**I1ZB**. Good conditions even if a strong storm forced me to interrupt transmission on Sunday evening...**IK6SNQ**.

The main target was the Italy All Time Score Record on 10 meters. Low Power. Made 200K+ points, record broken by a 30% increase!...**IR2V**. I could enjoy 2k WW CW. See you next season...**JA6ZLI**. My first experience to work on 1.8 MHz from JA! This was my desire in JA. Nice to work you guys on the same freq. Worked East Coast (W3LPL) first time ever. Easy to ask QSY (only one freq). Tks KH7R (op Jim)! We wish someday on SSB as well for us and you!!...**JABRWU**. I broke my previous best. I'm satisfied with my score...**JE3UHV**. I am satisfied that I made a new self record on 15m mono. I expect a bigger pile-up from stateside next year...**JH3AIU**. I enjoyed the contest with a mobile whip and 50 watts...**JJ1LRD**. Nice condition on 10m band. I enjoyed mainly 15m and 10m bands in this contest. Thank you very much for all stations. Hope to meet you again in the new century contests!...**JM1LRQ**. I am first enter for the worldwide contest, moreover QRP 5W. It is very good job, and so I am very excited! Many thanks to all of CQ WW's Great Contesters...**JM1OZP**. Operated at the park on top of the hill near my apartment house. I'm very glad to have a lot of QSOs...**JR1KKN**. I found that I did not any QSO with JAs on 15 just 15 minutes before the ending. Then QSYed to 15 from 10m, but missed it finally...**JR4PMX**. I was portable at "the old meteorological station" at west Jan Mayen, 71N, 008W. I laughed when KH7R sent "WOW!" when I called him during the middle of my night-time. They were 599+20 dB on 28 MHz! The portable operation at the west side of the island really payed off...**JX7DFA**. Again very happy working the CQ WW DX CX Contest, our great party!...**LUTEE**. Sorry just to play when condx were so FBI! But often traveling and a lot to do at home didn't permit me more...**LY2OX**. Nice condx! First night worked three Hawaiian stations, but heard more...**LY3JY**.

Really great contest with my little power and bad low band antennas...**LZ3YY**. Thanks to OE1SZW and OM3LA for support! Great contest! First day was good with 2400 QSOs. Second day was black Sunday... 1300 QSOs only Henry 5K and TS-850SAT damaged! Run lasted 24 hours with TI-922 with 400 watts (at least new OE record!)...**OE4A**. First I planned to hand out a few points; turned out I was hooked again by the CQ WW phenomenon!...**OE50HO**. Very nice contest. I am very happy about my best contest result ever...**OE8CIQ**. My second "serious" CQ WW CW SOAB. The first one was in 1990. The propagation was okay on Saturday, Sunday was not so good any more (specially 7-8 last hours). Well, I took only 15 minute nap during the contest, so in practice my continuous wake-up time was almost 68 hours! (Friday 5 UTC - Monday 1 UTC). It was a little too much for efficient operation...**OH1F**. First time ever in QRP class. Most fun and amazingly easy to get even rare DX. If only had more time to operate but...**OH2BSQ**. My first contest on 40m band with new transceiver FT900 and new vertical antennas. It was beautiful. Congratulation for this excellent contest...**OK1IF**. There was good conditions. I am sorry for too low results cause of 160m antenna missed and high bands beam was fixed to USA because of rotor damaged during a first few minutes of the contest...thanks Dr. Murphy!...**OK1SI**. Excellent condx this year (1st time in the world contest after 20 years)...**OK2QX**. Very good contest and perfect operators...**OK2SWD**. I never saw the cabrillo before. It is time for the hams to decide of a unique system...**ON6LO**. I utilize only the S&P method. This is a renewed pleasure to find all my friends in this great annual contest. I am crazy love of the CW. I hope to come back in 2001...**ON6TJ**.

Two big handicaps—the aurora (very active on Saturday, less on Sunday), and no Beverages for the low bands, as the corn was still on the farmer's field! Harry put in about 46 hours, like a real champion. After all he is the world vice champion (re: WRTC 2000)...**OTBT**. A strange start of the contest with no S-meter readings on 160 and 80m. Saturday turned out to be the best day with almost 900 QSOs. Disappointing to hear so many stations not correcting call signs, but just continue their test with R TEST, instead of really sending the correct c/s. Sunday at 1700 UTC condx went down, but returned at 1900 UTC. Later W7 on 10 meters, but still missed zone 1 and zone 29. Where were you? Is it due to the high radio activity from the contesters that we have this aurora-like condx every year on Sunday evening on 20 meters? Hi. My highest score ever and can do a lot better, but next time. The highlight of this season so far. Last year I didn't take part in the CQ WW, as I had to sit next to my mother. She got very ill, and died on Sunday evening at 2328. So she won the CQ WW 1999 contest. This one dedicated to her...**OZ8AE**.

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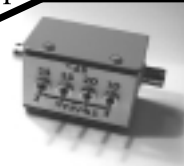
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## Results (from page 20)

### 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/O, 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!...**K1TTT**. 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!...**NDRH**. Great condx until the band faded Sunday afternoon. My best yet...**NBXB**. 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...**N9JC**. Away for the holiday, back in time to make a few Q's. Always trying



Number groups after call letters denote following: Band (A = all), Final Score, Number of QSOs, Zones, and Countries. An asterisk (\*) before a call indicates low power. Certificate winners are listed in bold. (All country terminology reflects the DXCC list at the time of the contest.)

### CW RESULTS SINGLE OPERATOR NORTH AMERICA

**UNITED STATES**

K5ZD/1	A	8,756,568	484	161	531
K1AR	"	8,559,474	4573	157	522
K1AZ	"	8,307,600	4345	167	521
K02M/1	"	8,023,296	4397	158	516
K1DG	"	7,199,169	4033	153	494
W1KM	"	6,871,806	3812	155	484
WC1M	"	4,838,592	3370	130	398
W1WFEF	"	4,827,276	3091	141	423
KR1G	"	3,874,907	2780	125	398
KS1J	"	3,523,445	2554	123	364
W1FJ	"	3,431,701	2335	128	431
NR1DX	"	3,163,424	1724	146	542
W1GF	"	2,242,968	1501	126	427
K1ML	"	2,187,158	1606	127	394
K5MA/1	"	1,508,202	1298	105	309
W1TE	"	1,444,756	1070	115	387
W1ZK	"	1,390,815	1075	117	348
W1ECT	"	1,167,885	1199	91	278
K1BV	"	576,830	828	68	195
AK1N	"	561,299	569	110	269
K1PY	"	467,937	570	88	239
K1CN	"	418,936	539	75	229
K1AJ	"	208,150	390	65	165
W1EZ	"	199,808	326	59	165
W1JW	"	184,509	326	66	183
NT1AX	"	155,709	226	62	190
N1MM	"	96,416	194	53	131
KA1VMG	"	68,680	200	46	124
W1CC	"	54,813	145	32	119
W1OHM	"	30,360	113	42	73
WR1P	"	2,769	36	12	27
N1NQD	"	1,968	25	18	23
N1RY	"	475	13	8	11
W1END	28	54,180	219	26	79
K2SS/1	21	97,440	2035	36	134
N1CPC	"	1,088	66	10	24
W1PL	7	37,026	265	21	81
W1MK	3.5	417,240	1273	26	96
K2L/1	"	1,020	34	9	21
K1PFZ	1.8	45,270	209	19	71

(Op: K1U0)

*K1RO	A	3,409,245	2245	131	422
*AA10N	"	2,637,522	1631	142	461
*W3E/1	"	2,605,764	2039	112	357
*K1VUT	"	2,545,683	1862	121	382
*K1OA	"	2,522,482	1976	110	339
*KM1X	"	2,143,596	1683	104	349
*WE1USA	"	2,069,325	1519	133	408
*W1EQ	"	1,731,450	1456	105	320
*K1NU	"	1,590,435	1430	96	309
*K1HT	"	1,452,360	1113	116	340
*AE1B	"	735,295	854	84	235
*K1KD	"	562,716	682	76	243
*W1KT	"	542,059	589	85	282
*W1ZS	"	487,224	601	71	232
*N3M/1	"	352,104	522	112	296
*W3T/1	"	341,000	471	68	207
*K1V5J	"	284,610	413	80	185
*N3KJ/1	"	265,510	399	64	200
*K1E1F	"	263,121	410	57	176
*N1DC	"	181,792	347	47	80
*K1MY	"	126,750	263	44	151
*W1EL	"	115,934	253	42	127
*AB1BX	"	95,106	347	29	102
*N1RC	"	79,662	246	54	133
*W1SRD	"	74,529	173	54	115
*K1EP	"	74,124	204	36	106
*W1TW	"	70,684	275	50	114
*W1ZZ	"	68,060	146	51	110
*W1PJ	"	29,232	104	36	76
*KK1L	"	28,997	122	35	72
*AA1OL	"	17,136	114	20	64
*W1DEO	"	16,104	65	44	44
*K1DW	"	4,950	42	15	30
*NF1A	"	1,824	32	18	30
*KB1CJ	"	726	16	7	15
*W1WAL	28	394,940	909	31	124
*KA1IS	"	178,220	513	27	106
*K1IB	"	140,094	453	29	100
*W1Y03JW	"	18,056	141	21	53
*KD10G	"	9,128	62	18	38
*K1PX	1.8	3,850	53	11	24

N2NT	A	6,527,500	3777	155	470
K2UA	"	6,075,104	3763	143	449
N2LT	"	5,574,974	3404	138	439
W2EN	"	3,048,705	2229	127	368
N2AN	"	2,748,022	2139	129	349

(Op: WC4E)

W2LC	"	2,507,430	1867	126	372
K2NV	"	2,403,306	1655	128	403
N2GC	"	2,227,484	1452	128	425
K2FU	"	1,738,506	1270	121	376
W2ZU	"	1,466,220	1296	98	322
N2MR	"	1,115,504	1017	100	303

N2WK	"	1,038,046	883	115	348
W2VYVA	"	647,854	684	98	280
KA2D	"	630,021	628	95	304
NA2M	"	264,427	387	78	211
W2UDT	"	262,200	499	78	192
WK2H	"	245,265	388	67	182
W2EZ	"	139,320	335	57	159
W2FUI	"	77,611	186	54	114
AA2WN	"	39,550	139	34	79
KA2MGE	"	7,200	52	26	34
K2ZJ	28	672,290	1493	33	125
N2MF	"	560,494	1432	35	111
K2VV	21	890,736	1833	37	139
W2FU	"	687,309	1561	36	125
NA2X	7	40,082	151	25	73
K2LP	3.5	9,000	150	20	40
K2AXX	1.8	8,372	105	12	34
W2VO	"	3,174	46	15	31
*W2TZ	A	2,616,094	1970	114	364
*NA2U	"	2,332,407	1740	116	367
*N2GA	"	1,946,880	1811	92	292
*WE2F	"	1,182,418	1059	99	320
*N2TN	"	903,925	718	122	353
KR1G	"	870,714	877	87	279
*K2JF	"	788,652	814	83	259
*K2CJD	"	729,210	636	115	331
*W2TX	"	636,378	647	90	277
*WA2EYA	"	589,743	652	84	249
*N2RD	"	485,994	607	81	229
*WA2VZQ	"	449,285	519	73	240
*WA2YSJ	"	413,848	469	93	256
*W2BFF	"	368,186	480	80	209
*K2CS	"	329,268	462	85	191
*W2YK	"	258,379	350	70	213
*A1ZL	"	181,714	309	72	169
*W2GO	"	172,347	283	74	209
*K2TV	"	161,226	316	64	170
*WA2VOV	"	112,817	243	63	132
*N2LK	"	81,260	201	53	117
*K2JL	"	79,870	176	53	110
*N2CG	"	48,339	186	43	88
*WA2OCG	"	46,718	230	54	88
*W3E/H2	"	21,560	84	35	63
*AA2AD	"	9,625	91	27	50
*KB2EQ	"	6,254	53	23	36
*K2SZ	"	4,896	37	17	31
*K2YLH	"	100	37	11	13
*N2BA	28	589,200	1400	31	119
*K2MZY	"	252,142	617	32	125
*W2CWW	"	37,224	140	25	69
*W2DVV	"	12,805	94	17	48
*K2CF	21	22,680	189	25	65
*K2XS	14	51,345	220	25	80
*WA2ASQ	"	5,547	45	11	32
*KF2EY	"	1,425	106	17	40
*W2BDVU	7	117,285	391	25	97
*W2TO	3.5	20,475	99	19	61

W3BG	A	5,065,658	3095	147	451
W3UR	"	3,976,385	2513	146	449
K2PLF/3	"	2,275,806	1695	117	372
AA3AT	"	2,177,604	1657	125	343
N3JT	"	1,438,680	1247	115	341
N3KR	"	894,179	828	95	312
K3SX	"	785,583	726	119	338
W3BYX	"	681,198	778	80	263
N3UM	"	645,392	650	95	291
*K1KD	"	572,448	733	95	261
W3VK	"	486,769	599	76	241
N3WJ	"	482,690	404	109	361
W3RP	"	426,374	643	73	226
N3AJ	"	421,670	670	72	211
AA3VA	"	366,384	515	78	194
W2VEY/3	"	263,675	432	70	195
W3TMZ	"	133,120	214	82	174
N3ZO	"	27,940	87	47	80
W3BG	"	26,656	94	45	74
K3MD	28	248,148	781	30	92
W3AZ	"	173,550	463	33	117
K3JR	"	11,800	70	16	43
W3FAF	21	53,448	207	26	76
K3SV	3.5	153,776	550	26	86
K1KO/3	"	2,160	59	12	33
*W3KPP	A	971,889	943	91	302
*W3FM	"	919,770	1041	76	234
*N3IXR	"	691,600	731	91	273
*N3YM	"	510,300	629	88	236
*W3IUU	"	447,552	583	78	210
*N4XU/3	"	434,520	593	79	227
*WA3SES	"	407,490	566	71	218
*KE3VV	"	373,272	494	80	222
*N3GJ	"	204,048	311	69	165
*N3GT	"	196,588	305	66	172
*W3QE	"	157,373	359	62	179
*W3BEN	"	127,624	270	56	156
*K3DSP	"	121,824	251	55	133
*K3VA	"	76,260	203	53	111
*N3NZ	"	58,725	164	38	97
*N3EA	"	57,912	196	33	94
*W3NC	"	36,612	138	32	81
*K3MT	"	29,040	114	47	73
*W3FE	"	28,080	167	29	75
*N9GG/3	"	25,984	109	40	76
*W3CP	28	132,480	377	28	100
*K3NL	"	3,400	35	7	27

W4AN	A	5,643,253	3457	143	438
K4ZW	"	5,389,104	3420	146	456

(Op: W4PA)

N4GN	"	3,908,230	2510	149	417
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W4MR	"	3,903,900	2519	134	416
K1PT/4	"	3,366,453	2354	134	403
W4RX	"	2,656,737	2061	126	363
K4PI	"	2,634,255	1660	151	434
N6AR/4	"	2,595,638	1769	130	412
K4AB	"	2,566,824	2139	123	333
K4NO	"	1,885,520	1513	125	356
N4DW	"	1,586,952	1219	113	361
W4YE	"	1,556,478	1211	108	354
K4LT/4	"	1,352,982	1349	111	327
NN4T	"	1,225,495	1083	119	296
W4AU	"	1,193,150	1203	88	262
W3VT/4	"	956,252	878	104	318
KG7H/4	"	801,176	941	113	321
K4DLJ	"	774,728	880	124	328
K4YT	"	565,812	567	108	295
K4JLD	"	565,811	606	110	291
W4ZYT	"	563,244	574	95	279
W4SAA	"	396,525	511	81	230
K4PB	"	329,448	424	81	215
W4BQF	"	268,323	659	46	127
N4UH	"	203,574	339	78	184
W4IF	"	195,288	350	65	172
K4NR	"	147,084	294	70	168

*K9JE		384,688	503	83	223
*W9WUU		370,656	489	78	210
*W9VA		281,569	397	77	194
*K9PG		218,845	334	85	168
*W9EBY		176,911	275	77	160
*N9BOR		126,672	281	63	140
*N9PW		53,108	149	49	93
*W9L		49,818	126	44	94
*W9LYA		6,930	42	28	38
*W9UM		2,310	28	13	22
*W9ISC		858	15	11	11
*K9BG	28	56,300	213	26	74
*K9WA	21	163,703	449	30	97
*W9LY		154,420	427	34	106
*N9IC		143,500	423	32	93
*W9LT		117,128	372	31	90
*K9JC	14	201,001	501	35	114
*K9NMS	7	58,298	215	24	79

N2IC/Ø	A	5,373,745	3171	158	453
*N2IC		1,924,058	1510	120	338
KØOU		1,415,700	1226	122	328
KEØUI		1,271,223	1231	115	296
WØOU		1,034,805	830	130	333
NØXB		653,341	795	104	273
KØIR		591,840	624	112	248
WØHW		422,979	595	77	200
KØJJ		324,046	405	99	203
WØZP		279,876	446	73	176
K7EY/Ø		11,928	69	53	114
WØYK		7,956	56	39	99
NSØZ	28	616,960	1429	34	126
KØSR		485,600	1095	34	126
WØTM		416,043	952	37	133
KGØUA	21	125,184	360	31	97
WØØTV		410	21	11	9
K4XV/Ø	7	330,959	859	29	110
KØCL		199,660	558	29	105
KØFX		97,664	383	28	81
KØCS	1.8	1,400	25	11	17

*K1U1C/Ø	A	1,362,300	1212	129	346
*KØPW		483,120	568	85	245
*WØUY		343,693	526	77	182
*KØCF		328,882	432	84	205
*KØCIE		277,817	571	74	183
*KØOV		177,184	298	69	155
*KØRY		155,296	317	71	140
*KØAQ		153,387	316	63	144
*KØAI		111,153	325	73	164
*NØOP		97,194	204	78	116
*WØIYY		97,180	227	53	119
*WØØNX		76,703	195	46	112
*KØRC		55,266	178	41	81
*KØEFT		40,734	103	44	102
*KØVX		33,578	134	31	72
*KØHT		31,024	100	42	70
*NØIBT		27,248	129	46	58
*NØHR		19,032	93	40	64
*NØDH		11,200	59	28	42

*WØZMN/Ø	A	3,441	102	36	57
*KØRS	28	326,310	831	31	115
*KØEQ		185,889	510	30	99
*KØCOP		47,232	194	23	73
*WØØJUN		19,412	148	25	67
*NØAAA		9,774	65	21	33
*NØNR	21	352,160	825	36	119
*NØED		82,806	277	29	82
*WØNL		60,152	255	27	76
*KØVØ	7	218,988	646	33	99
*NØRA		88,138	325	29	98
*WØØB		2,940	42	9	19
*KØUK	1.8	1,219	40	10	13

<b>ALASKA</b>					
KL7Y	A	4,381,155	4018	146	313
*KL7RA	28	674,709	2168	36	97
*KL7AC	A	776,204	1252	85	168
*KL7FAP	14	9,900	164	19	35

<b>ANGUILLA</b>					
*VP2EST	A	956,056	1770	73	181

<b>ANTIGUA</b>					
*V26K	A	6,541,600	5048	126	394
*V26JT		613,680	1191	70	170

<b>BAHAMAS</b>					
C6AKW	A	4,929,348	4210	128	364
*C6AKP	A	629,926	1266	83	191
*C6AGY		102,600	453	55	135

<b>BARBADOS</b>					
8P9Z	A	9,176,174	6237	144	442

<b>BERMUDA</b>					
*VP9/NC8V	A	215,946	783	47	115

<b>CANADA</b>					
VØ1MP	28	442,842	1402	30	108
*VE9DX	A	1,907,936	1409	122	425
*VE9ST	14	554,439	1763	32	105
*VØ1WET	3.5	714	28	6	15

VE2IM	A	7,942,141	5502	133	466
VE2AYU		1,349,770	1603	86	279
VE2FFE		45,552	207	37	67
*VE2AWR	A	923,717	1158	90	247

VE3AT	A	3,328,325	2758	112	363
VE3PN		787,355	1216	88	207
VE3OTL		727,216	1124	98	246
VA3RU	28	847,275	2059	35	130
VE3YGN	21	198,688	788	25	87
VE3PND	7	5,148	49	12	40
VE3UZ	3.5	1,196	25	7	19
VE3QAA	1.8	27,489	268	13	38
VE3KZ		15,244	202	13	24
*VE3ZPD	A	2,013,804	1851	122	346
*VE3STT		1,454,368	1539	91	285
*VE3KP		1,238,324	1490	92	261
*VE3RM		1,218,792	1556	89	255

*VE3GFN		586,146	822	84	237
*VE3OM		488,906	566	75	238
*VE3BUC		303,732	594	63	173
*VE3IAY		19,872	72	39	57
*VE3ZT	28	335,916	1120	29	97
*VE3UKR		40,016	212	20	62
*VE3MQW	14	130,289	475	27	86
*VA3SY		88,224	670	23	73
*VE3FT	7	231,880	894	23	87
*VA3TTT		166,800	710	27	93
*VE3OSZ	1.8	15,863	287	11	18

VE4IM	A	839,408	971	101	267
*VE4YU	A	263,320	492	75	152
*VC4X	28	394,335	1294	29	106
*VE4MF	21	42,350	136	34	76

VE5CPU	A	9,550	97	28	22
VE5ZX	21	483,717	1553	35	122
VE5CG		60,190	473	21	23
VE5AAD		39,630	241	24	54
*VE5SF	A	1,223,278	1830	93	229
*VE5UF	28	130,086	617	27	72

VA6NO	A	405,720	940	81	126
VE6WQ	28	778,008	1936	38	130
VE6JY	21	1,028,223	2330	38	133
*VE6ZT	A	548,821	943	85	174
*VE6TN		464,784	822	94	182
*VE6LB		109,592	353	64	88
*VE6VV		29,700	233	48	52
*VE6BMX	28	241,123	1098	29	74
*VE6BF	14	338,988	903	37	119

VE7UF	A	1,448,001	1897	119	230
VE7QO		156,510	347	52	133
VA7CW	21	823,446	2104	37	125
VE7XR	14	480,965	1393	35	110
*VA7RR	A	2,898,432	3010	121	287
*VE7XF		831,285	871	121	256
*VE7XB		325,134	686	75	148
*VE7VF		148,182	421	59	99
*VE7FO		69,996	352	41	73
*VE7ZBK		31,577	193	36	55
*VE7SV	28	549,512	1567	34	115
*VE7IN		61,600	314	27	53
*VE7NNN		8,450	210	11	15

<b>CAYMAN ISLANDS</b>					
ZF2AM	21	1,196,320	3098	35	125
*ZF2SA	A	1,931,748	2656	96	252
*ZF2RR	28	851,736	2517	33	105
*ZF2LA	7	96,943	615	18	59

<b>COSTA RICA</b>					
TI4G	21	268,191	1890	30	99
*TI5N	A	6,013,962	5001	129	393
*TI3TLS	14	232,323	1343	28	83

CØ2JD	7	152,796	800	25	82
*CØBLY	A	1,802,430	2827	87	228
*CØBDM	28	201,941	1096	22	67
*CØBTW		99,946	388	28	90
*CØM2F	14	703	30	9	10
*CØBZZ	7	378,713	1461	24	94

<b>CUBA</b>					
CØ2JD	7	152,796	800	25	82
*CØBLY	A	1,802,430	2827	87	228
*CØBDM	28	201,941	1096	22	67
*CØBTW		99,946	388	28	90
*CØM2F	14	703	30	9	10
*CØBZZ	7	378,713	1461	24	94

<b>DOMINICA</b>					
*J79GU	A	2,607,579	3061	100	291

<b>DOMINICAN REPUBLIC</b>						
*HI9	/DL2DXA	A	567,821	1119	66	167
*HI3LFE			65,889	389	25	60
*HI3K	7	524,538	1825	29	109	

<b>GREENLAND</b>					
OX/N6ZZ	A	4,252,419	4248	107	316
*OX/LA5KW	A	84	7	6	6

<b>GUADELOUPE</b>					
*FG/NØJK	A	450,495	1052	72	141

<b>JAMAICA</b>					
6Y7A	A	2,026,222	2715	99	242

<b>MARTINIQUE</b>					
FM5GU	A	23,290	137	35	50
FM5BH	28	1,119,504	2989	36	130

<b>MEXICO</b>					
*XE2MX	A	347,520	498	106	214
*XE1RGL	28	205,014	991	25	69
*4B1BEF		7,442	165	20	41

<b>PANAMA</b>					
3E1DX	28	1,805,225	4527	37	126
*HP1AC	A	339,687	660	63	166

<b>PUERTO RICO</b>					
NP4A	28	1,649,209	3788	36	137
*NP3X	28	492,320	1553	35	101

<b>SAN ANDRES/PROVIDENCIA</b>					
*HKØER	A	183,078	733	37	89

<b>ST. KITTS &amp; NEVIS</b>					
V47KP	A	1,106,708	1471	84	253

<b>ST. VINCENT</b>					
*J8/F6AUS	A	764,712	1717	62	172

<b>TURKS &amp; CAICOS ISLANDS</b>					
VP5GN	A	7,475,358	5485	144	429

<b>U.S. VIRGIN ISLANDS</b>					
NP2L	A	708,414	999	81	253
KP2/OK1TN	28	755,706	2948	33	100
*OK1DXB	3.5	57,297	577	15	56
*WP2Z	28	790,230	2299	34	108

<b>AFRICA</b>					
<b>AFRICAN ITALY</b>					
IH9P	7	1,218,145	2868	29	116

<b>CANARY ISLANDS</b>					
E88BH					



*OK1GS	"	73,915	480	18	78	RZ1AZ	"	238,048	404	83	263	*RZ40F	"	100	2	2	*F5SGI	"	297,824	592	63	164	*DF0IT	"	405,999	898	59	238				
*OK1DXR	"	15,312	173	14	44	UA3UCD	"	195,604	341	84	232	*RZ30Q	21	499,733	1484	38	131	*F5JLV	"	274,920	737	60	172	(Op: DF60C)								
*OK1FOG 3.5	36,504	532	11	61	RW3RQ	"	119,652	285	69	167	*RZ3ABJ	"	356,622	1228	36	111	*F5V	"	239,568	602	56	130	*DF2CT	"	371,490	798	69	221				
*OK1FHE	"	7,673	180	7	35	UA6LFO	"	103,840	219	74	162	*RW4LC	"	221,770	886	33	101	*F5JOT	"	239,154	676	51	180	*DJ4PT	"	368,352	597	76	212			
*OK2SNX 1.8	11,472	309	6	32	UA3UUE	"	93,218	205	75	179	*R3UD	"	190,332	686	33	120	*F5ROX	"	237,797	730	57	154	*DL9XY	"	356,694	796	62	207				
<b>DENMARK</b>																																
OZ1LO	A	4,245,948	3643	136	445	RX3AP	"	78,297	304	43	108	*UA3ABT	"	45,353	193	30	100	*F6KGC	"	225,449	711	72	229	*DL2GGB	"	345,650	631	67	243			
OZ5DX	"	323,584	690	60	196	UA1OMX	"	75,795	211	61	94	*UA40K	"	33,380	212	21	67	*F5JDG	"	146,346	484	45	106	*DM3PKK	"	322,544	552	73	231			
OZ5AAH	"	16,320	270	38	98	UA6AAY	"	64,416	223	57	126	*R3SL	14	205,424	1030	35	113	*F5TNI	"	142,576	489	78	226	*DL8UL0	"	298,558	711	66	204			
OZ7YL	14	15,104	103	17	47	RK3DK	"	42,336	270	31	77	*R3SF	"	140,432	599	32	99	*F5TVG	"	115,299	258	85	122	*DL1LSZ	"	282,480	769	57	183			
OZ4QC	7	21,827	208	14	59	RX3RB	"	33,927	199	35	94	*R3FO	"	138,496	646	31	97	*F5MFL	"	110,376	368	48	120	*DL7JV	"	282,296	615	73	211			
*OZ8AE	A	1,686,924	1482	135	429	RA3MB	"	24,480	131	43	101	*R3FOA	"	138,496	646	31	97	*F5RPB	"	84,181	264	50	114	*DJ5GG	"	278,880	644	64	176			
*OZ8SW	"	756,756	1037	90	274	RA3M0	"	24,480	131	43	101	*R6V6A	"	82,532	472	28	84	*F2RW	"	43,581	102	30	58	*DJ5XD	"	270,664	601	71	216			
*OZ5ABD	"	457,320	1015	70	239	RA10J	"	19,173	87	37	46	*RW3WM	"	58,424	363	28	81	*F5MNK	"	37,922	167	54	80	*DL1ARJ	"	267,385	707	68	197			
*OZ6PI	"	416,218	648	89	243	UA4RF	"	9,625	54	33	44	*UA1CEC	"	56,882	436	24	78	*F5XC	"	7,155	100	11	42	*DL7CF	"	264,111	492	74	204			
*OZ4RT	"	247,530	522	62	161	RK6CZ	"	7,314	73	25	44	*UA3XEG	"	50,304	308	23	73	*F5NSO	"	4,240	51	18	35	*DL6UKL	"	232,074	630	57	199			
*OZ5MJ	"	162,888	371	65	189	RN3RQ	"	6,930	81	19	51	*RA10AK	"	40,664	270	22	70	*F2FX	"	1,183	31	13	14	*DJ1MV	"	231,792	513	69	195			
*OZ4FF	"	126,431	307	65	176	RA3AJ	28	533,340	1522	38	142	*RA10K	"	33,915	133	30	89	*R3AKC	28	156,757	531	33	99	*DL2ANM	"	227,978	494	70	191			
*OZ5RM	"	12,300	141	16	44	RV3ACA	"	204,098	856	32	99	*RU4PL	7	322,371	1458	36	111	*F5LJY	"	87,205	413	29	78	*DL8MG	"	215,070	467	58	143			
*OZ7JQ	14	7,314	75	15	31	RA3RN	"	102,704	368	32	99	*RA6FV	"	61,677	404	21	78	*F6IE	"	34,086	184	25	53	*DL8HC	"	210,910	527	63	199			
<b>GERMANY</b>																																
<b>DODECANESE</b>																																
J45KLN	A	1,025,570	2181	70	252	UA3QA	"	58,528	347	30	88	*R3NDY	3.5	40,508	479	14	62	*F9DK	"	20,650	180	19	40	*DL5DBH	"	206,660	566	55	167			
<b>ENGLAND</b>																																
G4BUO	A	5,426,826	3902	151	491	UA3XA	"	40,704	186	27	69	*UA6AKD	"	17,880	287	9	47	*F5MGD	"	2,808	72	9	18	*DF4RD	"	192,156	383	63	205			
G0VZ	"	3,882,900	3492	137	465	RW6AB	"	17,182	116	18	53	*UA6ATH	"	12,200	139	13	48	*F5MLJ	3.5	1,470	121	8	34	*DK5ZX	"	178,698	486	44	130			
G3MXJ	"	3,549,840	2801	124	456	RV3DPX	21	548,320	1631	37	123	*UA6ATG	"	10,045	171	9	37							*DL2RTJ	"	169,740	448	63	183			
G4BJM	"	1,016,262	1627	79	224	UA3APX	"	542,512	1734	37	127	*R3D0X	1.8	16,184	194	12	56							*DL1TH	"	167,580	574	51	139			
G3VPS	"	729,008	1130	83	285	RV3AA	"	378,015	1381	37	128	*R3D0X	"	10,706	252	9	33							*DL3DBY	"	159,019	466	53	154			
G0LZL	"	555,345	1031	75	240	RA3XO	"	320,430	940	35	130	*RA10K	"	1,311	28	6	17							*DL1ZU	"	151,409	380	60	167			
G3UFY	"	81,225	237	58	113	UA6LTI	"	147,004	542	35	108													*DL5SVB	"	150,266	365	70	184			
G00RH	28	247,080	1073	31	85	RV3MDX	"	85,799	477	27	88													*DL2FDL	"	142,926	714	60	186			
G5G6	21	498,630	1544	35	127	RV3BY	"	85,002	413	30	88													*DL4FAY	"	140,175	589	72	195			
<b>FINLAND</b>																																
G4IUF	"	23,464	198	16	46	RZ6FZ	14	172,530	792	32	103													*DF1LON	"	134,260	374	51	145			
G0CKP	7	375,089	1411	32	379	UA4HN	"	152,451	802	30	87														*DJ9FG	"	119,380	355	48	135		
*G3WGV	A	1,216,736	2290	112	404	RZ1AK	7	12,730	97	16	51														*DL9NDV	"	112,860	347	45	135		
*G4IY	"	1,420,608	1755	103	345	RV4PL	3.5	116,051	781	26	87														*DL1IA	"	110,862	234	72	174		
*G5LP	"	963,475	1514	96	329	UA3LD	"	48,034	556	12	61														*DJ3JD	"	110,445	312	57	142		
*G3NKS	"	930,176	1111	99	317	RA4PO	"	37,345	377	15	62														*DL3JPN	"	109,282	290	66	136		
*G0WKV	"	638,118	1343	63	171	RN6BN	1.8	30,264	348	15	63														*DL3HSC	"	104,560	336	47	134		
*G3KLE	"	389,553	672	64	203	RU1AO	"	14,135	247	8	47														*DL5ZB	"	103,165	182	92	143		
*G4KFT	"	370,077	585	73	208	UA6LP	"	1,312	34	6	26														*DF2HL	"	93,984	255	59	119		
*G6QQ	"	365,579	797	64	207	*RW3C	A	2,400,685	2210	137	470														*DL5NAV	"	86,676	406	43	143		
*M2W	"	317,892	834	64	172																					*DL3KWR	"	84,360	281	59	163	
<b>FRANCE</b>																																
*G4OWT	"	311,400	545	82	218	*R3QW	"	2,044,311	2403	130	447														*DL2AL	"	83,820	321	60	160		
*M0BK	"	268,332	624	56	180	*UA4FER	"	1,797,744	1906	123	393															*DL3NG	"	82,149	303	42	97	
*G0TYV	"	224,910	477	67	176	*R24FA	"	1,513,446	1673	122	384															*DKA3X	"	78,446	272	40	82	
*G3GVS	"	201,450	378	62	221	*UA1ANA	"	1,339,888	1495	115	391															*DJ6OI	"	62,248	251	46	118	
*G0UJK	"	163,930	407	48	146	*RA3AF	"	1,307,929	1416	116	377															*DL6DSA	"	58,819	206	43	88	
*G4ZRR	"	135,935	492	38	117	*RA3AUM	"	1,290,660	1639	106	333															*DL2FDD	"	58,245	192	52	113	
*G3VQO	"	115,995	338	51	158	*RW3AX	"	1,221,503	1935	107	340															*DL2ZAV	"	56,658	236	39	94	
*G4SLE	"	87,438	343	42	135	*RN3AY	"	1,210,902	1576	119	343															*DL6MTA	"	54,850	239	30	120	
*G4ZME	"	74,335	297	33	86	*RNGAL	"	1,107,585	1543	115	338																*DM3XI	"	48,372	132	60	79
*G0WHO	"	70,250	270	41	84	*R3JFF	"	1,008,086	1565	101	325																*DL4KUG	"	45,279	222	31	98
*E0GATS	"	3,850	78	17	38	*RK3DH	"	956,304	1118	122	400																*DL1VT	"	35,636	176	40	78
*G3KWK	28	143,500	594	31	109	*UA0ZDA/6	"	943,999	1380	82	264																*DL3NBL	"	31,620	140	56	114
*G8A	"	82,859	549	22	67	*UA4CCG	"	902,700	1171	117	393																*DL2AMT	"	31,008	253	39	97
<b>GERMANY</b>																																
*G3RSD	21	113,960	570	26	84	*R4W4E	"	832,134	1278	96	323																*DL2AMT	"	29,645	173	22	55
*G3MK	"	16,808	121	22	66	*R3KBA	"	701,510	1198	100	310																					





N2WG	112,135	251	57	148	OH2JXA	41,850	350	17	58	K2NJ	3,069,270	1814	135	468	WO7T	53,280	154	52	108	OE3GSA	28	226,206	659	34	108
DL5CL	110,016	312	53	139	W4FMS	29,562	185	23	55	N02R	2,850,834	1584	140	519	KK7A	52,026	148	58	80	OE3ZK	24	199,704	869	35	122
SM5DQ	108,344	384	48	184	WG1Z	25,920	120	19	61	N2MG	2,739,960	1810	125	415	W7ZR	334,050	872	36	114						
HB2XY	107,094	445	38	146	WA6FGV	21,300	136	23	37	K2ONP	2,612,082	1509	138	489	W7AT	1,710	23	15	23						
N07X	105,000	246	53	115	V53HG	19,734	135	16	50	W2WB	2,563,122	1584	147	484											
WA6TLA	99,876	230	75	130	7K1CPT/1	12,992	84	21	37	KF20	2,518,209	1285	160	563											
GI0GDF	91,504	389	39	110	WB3AAL	10,899	74	19	44	W2ZQ	1,306,193	1136	96	331											
RV1AB	86,632	301	42	140	OK1AJ	8,256	104	10	38	W2LE	1,125,466	887	108	346											
RV9COI	81,075	235	32	109	W1CTN	4,365	71	11	34	N2CO	1,120,064	873	111	362											
SP2BAS	78,255	214	53	88	JA5JVD	2,001	40	14	15	WK2G	1,084,832	913	108	356											
HB2DAX	72,932	488	50	116	K0CO	340	16	10	10	K2EP	755,730	660	88	317											
UA3LIZ	70,528	476	26	102	JF3WNO	150	7	4	6	W2RD	723,135	551	115	382											
EA7AAW	70,200	285	34	101	RF29IB	100	74	10	33	N2TK	711,165	581	105	350											
Y04AAC	65,772	336	35	115	OH7FF	147,193	660	31	96	W2KA	646,518	606	99	290											
SP2EWQ	62,040	137	73	115	UA1OZ	101,184	457	32	92	K2XF	627,585	580	104	313											
KL7GN	60,248	225	38	87	N4IJ	94,800	300	31	89	K2BX	612,480	537	108	356											
RW6GAH	57,960	441	35	124	G3LHG	85,916	570	20	74	W9RN	600,208	648	87	281											
F5IQJ	56,997	332	42	80	RZ4AA	22,550	281	15	49	N2FF	557,550	529	90	323											
RW4LR	49,797	298	26	73	SN8A	22,300	246	15	57	N2ED	534,968	635	92	236											
JN2FSE	41,472	127	50	78						(Op: SP8AA)															
DL5IAM	40,964	240	41	113	DL40BJ	21,047	235	10	53	KQZ0	434,763	520	81	228											
SV1DZB	39,824	224	47	105	HA1RS	19,901	163	20	55	N2UM	202,912	357	77	195											
PV8DX	38,880	198	33	48	US8UA	15,441	232	16	52	WB2WPM	182,246	353	81	230											
W4ZGR	38,658	147	22	80	LU1FAM	6,591	65	16	23	KD2P	65,250	169	59	115											
K8IH	37,572	125	53	71	DL2BQD	2,412	56	7	29	N2KJM	50,337	149	29	90											
YU1BX	32,766	273	19	67	HB9LDO	759	24	6	17	NA2NA	6,450	60	33	53											
K7EL	31,995	146	38	41	HATUG	53,176	372	20	72	K2WB	5,820	38	26	34											
F5NLX	31,514	183	27	62	G3VPW	49,172	414	14	62	N2EE	28	668,952	1613	36	127										
SP5AKG	31,294	110	48	110	H93CEY	33,374	292	15	59																
K6MI	31,080	127	47	64	K3TW	29,754	167	17	58	K3WW	8,465,815	4091	166	589											
Y04CSL	28,064	183	31	96	K2DW	27,792	179	14	58	N3AD	4,661,244	2488	161	537											
K7TQ	21,730	138	35	47	DL1DQY	21,011	155	19	56	N3RR	4,569,648	2241	161	583											
SM7CZC	18,144	85	33	39	RW6FO	19,536	164	17	57	KQ3F	3,766,860	2142	141	471											
F6J3Z	17,199	132	20	43	JA2HUN	9,159	83	18	25	N3AM	3,570,093	2017	143	496											
DH0JAE	15,575	120	28	61	UT5UQV	7,900	81	11	39	K3PH	3,475,480	1921	147	499											
DJ5QK	15,561	125	23	68	RX6LDK	6,324	147	11	40	W3FV	3,366,696	1987	140	464											
W9FHA	13,674	86	25	61	LU7JHE	2,278	40	13	21	K3ND	2,087,220	1155	146	499											
KG6ECI	13,193	108	37	42	KF8JW	552	28	6	18	W3OV	2,067,298	1582	115	367											
NUJ0V	12,710	68	30	52	SM0WKA	100	11	5	10	K3NZ	2,065,154	1224	149	488											
DL2VER	12,388	121	18	58	LW8EKF	20	6	5	5	WT3W	1,450,161	1036	123	408											
IK2BCP	10,792	86	27	49	5B4AGG	106,596	489	21	73	N3ZA	1,438,008	943	132	440											
SM3AF	10,608	177	29	73	HA8LJH	22,935	462	9	46	N3NA	1,316,244	942	117	385											
RA9XX	10,296	121	11	33	OM3THV	13,833	310	9	44	K3JG	1,270,583	958	114	373											
GW0KZW	9,076	207	24	64	LY1DI	7,040	215	5	35	W3GK	1,230,880	972	121	369											
G0KZO	8,918	134	28	70	VY2MGY/3	6,389	148	9	15	WT3P	1,229,346	935	113	376											
K4JSI	8,843	52	19	44	OM4APD	1,265	67	4	19	NN3Q	1,164,720	933	112	348											
RA0ZD	7,622	151	86	120	SQ2EEF	1,166	51	4	18	K3KO	1,126,407	809	127	380											
JM10ZP	5,830	66	23	42	OK2PMS	936	41	5	21	K3PP	1,019,218	732	129	398											
KA9NI	5,103	54	21	32	SP2DWG	140	13	3	11	KB3MM	981,165	814	97	342											
AB8DF	4,550	64	9	41	W6QU	100	7	3	3	W3HVQ	952,160	902	111	329											
LZ1IQ	4,508	49	19	27	OK2ZAW	24	11	3	9	KF3B	940,424	804	110	327											
KD7CTF	3,616	49	16	16	WD0FLJ	10	10	3	2	W3EKT	827,717	721	122	395											
K9DTB	2,024	35	22	23						KB3TS	700,245	611	104	351											
WB9MI	1,485	26	15	18						N3HF	576,548	599	100	313											
W4NJK	1,271	85	21	20						K3CP	559,860	487	97	333											
VA7NT	954	27	10	8						W3UJ	534,188	664	75	257											
OZ1BXM	897	21	10	13						W3GN	517,446	619	93	249											
W1DAD	567	20	15	12						N3QQ	482,258	516	74	269											
WD3P	380	12	8	11						W3ZJ	432,602	507	81	245											
UA0SBO	378	24	9	9						NY3C	236,434	373	69	173											
KD7BOD	100	84	21	32						K0X3	224,172	351	58	176											
KA6SGT	100	42	13	14						WM3T	201,586	339	66	176											
DL4G8R	61	9207	16	26						W3OU	123,354	225	69	162											
UP6F	28	291,000	787	35	115					W3KN	112,476	238	49	133											
										W3UL	93,060	207	48	132											
										K3TG	13,246	62	27	47											
										WR3L	21	218,862	510	35	127										
JR3RWB	248,838	687	35	99						K4MA	3,339,930	1946	149	489											
N6MU	242,068	579	34	112						W4WA	1,795,802	1151	140	459											
W040	241,914	643	32	106						N4VV	576,913	591	92	267											
JG2MLI	173,621	569	33	86						W4NZC	468,358	561	94	255											
G4GX	161,460	527	31	99						W4DD	204,288	340	64	164											
VA3EU	150,060	483	27	95						N4XM	198,744	279	84	189											
NA4CW	149,408	456	28	88																					

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UG-21B/U	N Male RG-8, 213, 214 Kings	5.00
9913/PIN	N Male Pin for 9913, 9086, 8214 Fits UG-21 D/U & UG-21 B/U's	1.50
UG-21D/9913	N Male for RG-8 with 9913 Pin	4.00
UG-21B/9913	N Male for RG-8 with 9913 Pin	6.00
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H80/DJ0IP A	483,520 1082 72 248	N2BIM	1,694,880	1322	122	406
		AE2F	1,649,472	1175	128	440
<b>LITHUANIA</b>		N3F	2,085,024	1567	139	448
LY2GV A	1,950,393 2059 125 376	N3BNA	1,895,400	1398	127	413
LY1FW *	195,027 548 60 199					
<b>NETHERLANDS</b>		K4XS	9,704,825	4187	178	667
PI4DEC A	1,506,428 2134 110 359	K4JA	7,760,124	3833	170	604
PA3GRM *	337,053 771 76 207	N4TO	6,395,444	3192	165	599
PA1XA *	32,340 167 44 88	N4RV	3,387,064	1911	157	507
PA3EWP 28	444,544 1229 38 146					
PA0MIR 21	148,905 526 32 103	W5TM	3,091,902	2105	152	441
<b>POLAND</b>		N6RV	498,180	575	106	255
SP2FAX A	6,612,940 4465 173 537	VV7T	3,969	31	17	28
SN7N *	1,917,142 1966 131 456					
	(Op: SP7PS)	K8AZ	8,853,829	4062	176	641
3Z1V *	231,608 446 83 179					
	(Op: SP1MHV)	WE9V	5,781,895	2991	161	548
SP6AZT 3.5	41,796 481 16 65	WN9O	3,911,060	2369	156	535
<b>SCOTLAND</b>		N0NI	6,797,460	3388	177	595
GM0GAV A	4,152,636 2865 152 580	N0DY	3,120,060	1997	146	450
		K0AB	2,830,500	1919	150	462
		W0TT	486,855	622	95	254
<b>SLOVAK REPUBLIC</b>						
OM3IAG A	994,850 1467 102 292	VE6SV	4,137,546	3149	152	450
OM7PY *	93,960 204 66 184	VE3DC	3,839,160	2668	143	455
OM1A 21	710,188 1947 38 134	VE6AO	896,784	1445	95	219
	(Op: OM2DX)	VE9/K1JB	880,352	1186	82	246
		VE3QDR	150,960	484	64	158
		VE2CQ	150	83	9	21
<b>SLOVENIA</b>						
S59AA A	3,991,680 2846 154 518	ZF2NT	6,794,604	5120	151	475
S52ZW *	2,175,818 2215 133 453					
S53AU *	263,529 362 89 240	J75KG	6,771,678	4984	144	447
S5BC 28	669,144 1822 37 131					
S58A 14	795,124 2154 38 149	J3G	6,589,660	4937	140	465
S59CAB 3.5	202,806 1356 26 88					
<b>SPAIN</b>						
E45EU A	462,582 1009 81 198					
E41FBJ *	106,050 530 48 154					
E43EU *	65,416 237 43 105					
<b>SWEDEN</b>						
SM5D A	407,734 462 117 361					
	(Op: SM5DJZ)					
SM5FUG *	235,668 590 62 184					
<b>SWITZERLAND</b>						
H82FAP A	938,366 1497 93 281					
H82HFN *	48,048 261 36 68					
<b>UKRAINE</b>						
UT5UGR A	3,044,690 3245 144 478					
UR6L *	1,779,425 1961 130 415					
	(Op: UR5LCV)					
<b>WALES</b>						
GW4BLE A	41,125 147 46 79					
<b>YUGOSLAVIA</b>						
YT3T A	2,951,040 2723 142 498					
4N7A *	931,662 1357 102 324					
	(Op: YT7KM)					
YU1NR 28	21,252 238 22 47					
YU1KX 21	438,633 1706 37 126					
YU1AAX *	409,488 1520 34 118					
YT1BB 7	335,835 1775 32 121					
<b>AFRICA</b>						
<b>TUNISIA</b>						
TS7N	13,140,050 6348 156 614					
<b>ASIA</b>						
<b>ASIATIC RUSSIA</b>						
RF9C	8,695,610 4302 169 601					
RZ9VWH	4,850,679 3629 143 490					
RK9AWN	3,651,054 2517 146 496					
RK9SWF	1,640,704 1686 102 314					
RK0SX	1,671,948 1487 121 331					
<b>ASIATIC TURKEY</b>						
YM3WW	113,262 364 32 87					
<b>CHINA</b>						
B4R	1,947,148 2580 119 275					
<b>CYPRUS</b>						
P3A	16,426,602 7534 172 645					
<b>JAPAN</b>						
JE4VVM	6,412,320 3733 173 484					
JH7PKU	6,019,377 3426 176 487					
JA7YAA	5,973,982 3336 173 485					
JA1ZLO	2,705,285 2155 145 342					
JA2ZJW	1,921,675 1807 132 263					
JA1YPA	1,362,456 1444 119 262					
JO3JYE	1,297,912 1482 106 238					
JE2YHS	664,686 818 126 247					
JA1YXP	620,093 1308 83 158					
<b>EUROPE</b>						
<b>AUSTRIA</b>						
OE2S	8,858,824 5189 172 655					
OE8CIQ	1,538,856 1575 140 463					
<b>BALEARIC ISLANDS</b>						
EA6IB	10,691,889 6417 193 700					
<b>EUROPE</b>						
<b>AUSTRIA</b>						
OE2S	8,858,824 5189 172 655					
OE8CIQ	1,538,856 1575 140 463					
<b>BALEARIC ISLANDS</b>						
EA6IB	10,691,889 6417 193 700					
<b>EUROPE</b>						
<b>AUSTRIA</b>						
OE2S	8,858,824 5189 172 655					
OE8CIQ	1,538,856 1575 140 463					
<b>BALEARIC ISLANDS</b>						
EA6IB	10,691,889 6417 193 700					

<b>BELARUS</b>		EW1WN	229,731	541	53	166
<b>BELGIUM</b>		OT0P	2,492,336	2833	129	449
<b>BOSNIA-HERZEGOVINA</b>						
T91ESP	1,155,208 1854 92 302					
<b>BULGARIA</b>						
LZ9W	3,184,510 3059 150 529					
LZ1ABC	1,609,989 1891 113 378					
<b>CROATIA</b>						
9A7A	9,798,180 5846 167 653					
9A3MR	2,693,628 2785 138 450					
9A1CMS	846,622 1427 86 285					
<b>CZECH REPUBLIC</b>						
OK5W	7,393,374 4352 185 677					
OL3A	5,446,848 4058 157 547					
OL5T	4,463,710 3407 150 548					
OL5Q	3,637,557 3438 124 419					
OL7R	3,362,214 3028 134 448					
OK1KSL	2,203,812 2356 124 430					
OK2KOD	1,085,175 1264 113 364					
OK1KAO	896,296 1518 87 311					
OL2A	680,238 1184 85 238					
OL3E	243,346 733 63 218					
<b>DENMARK</b>						
OZ5BAL	238,872 564 56 145					
<b>ENGLAND</b>						
M4T	11,076 129 21 57					
<b>EUROPEAN RUSSIA</b>						
RU1A	12,753,600 5670 203 757					
RZ3Q	6,918,683 4500 183 670					
RL3A	5,216,325 3820 171 614					
R13A	4,168,524 4090 141 423					
R3K	4,052,715 3761 158 533					
RX3RXX	2,804,850 3202 136 439					
RK4WVA	2,707,992 2609 147 501					
RK3RWL	1,246,696 1901 107 350					
RK3WVA	1,060,752 1540 106 345					
RK3PXP	812,620 1299 98 312					
UA3YFA	244,180 630 62 228					
RK3FA	60,606 273 32 79					
<b>FINLAND</b>						
OH7M	7,156,520 4137 172 666					
OH7WW	3,271,520 2891 148 487					
OH6K	2,942,111 2753 152 509					
OH7AAX	103,649 260 63 158					
<b>FRANCE</b>						
F5MUX	8,471,507 5027 169 612					
F5IN	8,327,451 4705 178 653					
F5AKL	1,559,831 2406 100 327					
F5VEX	1,238,484 1971 111 356					
F8KHZ	1,151,730 1445 95 307					
F6KPR	144,460 799 63 170					

<b>LUXEMBOURG</b> LX/DL4SDX 3,561,844 3649 124 448	UR4LWY 107,184 242 74 158 UR4MWU 98,599 384 49 153	<b>YUGOSLAVIA</b> YZ7A 1,662,595 2286 105 368 YU1INO 157,620 521 56 166	<b>N2RM</b> 21,653,289 8970 191 718 <b>K3LR</b> 21,160,267 8477 200 741 <b>K9NS</b> 17,348,708 7324 197 726 <b>N3RS</b> 16,509,815 7342 179 674 K1TTT 14,287,268 6786 177 689 K2LE/1 13,214,348 6250 177 649 <b>K8CC</b> 11,925,075 5934 175 624 W3PP 11,737,603 5747 176 635 K1RX 11,666,915 5554 174 671 <b>K0RF</b> 11,566,554 5621 189 653 <b>W4MYA</b> 11,354,364 5409 174 654 W8AV 11,258,793 5269 183 636 <b>K5GO</b> 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 <b>NR4M</b> 8,263,842 4541 164 569 <b>N6AW</b> 8,206,055 4530 179 536 <b>K3NM</b> 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	<b>UNITED ARAB EMIRATES</b> A61AJ 36,606,846 15647 211 778	<b>SOUTH AMERICA</b> <b>GALAPAGOS ISLANDS</b> HC8N 44,689,904 17232 199 745		
<b>MACEDONIA</b> Z30M 6,047,544 4984 154 542	<b>OCEANIA</b> <b>AUSTRALIA</b> VK8AR 28,017 136 40 59	<b>EAST MALAYSIA</b> 9M6SMT 4,813,824 3386 157 355	<b>J3A</b> 21,195,036 11591 176 618	<b>EUROPE</b> <b>AUSTRIA</b> OE3I 1,957,110 2172 132 402	<b>CHECK LOGS</b> 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).		
<b>NETHERLANDS</b> PB6X 1,995,455 2481 115 382 PI4ZLD 1,942,468 2203 127 397	<b>NORWAY</b> LA1K 972,283 1728 84 293	<b>GUAM</b> AH2R 8,423,520 4744 167 477	<b>GRENADA</b> J3A 21,195,036 11591 176 618	<b>CZECH REPUBLIC</b> OL7W 6,518,292 5056 162 597	<b>NEW ZEALAND</b> ZL6QH 5,541,516 3946 153 378 ZL3CW 3,660,618 3247 129 297	<b>AFRICA</b> <b>GHANA</b> 9G5AA 23,692,130 11180 176 594	<b>FINLAND</b> OH2U 22,154,854 11419 201 782
<b>POLAND</b> SP3PFR 1,555,905 1862 118 387 HF9KRT 750,692 1111 101 297 SP3KPN 47,784 206 36 102	<b>ROMANIA</b> YR8A 589,006 1283 78 256	<b>NORTHERN MARIANAS</b> NH0S 7,846,272 4978 165 391	<b>MOROCCO</b> CN8WW 70,046,436 23390 210 836	<b>DENMARK</b> OZ5W 5,932,500 4801 146 479 OZ5WQ 4,011,120 4072 140 479	<b>NETHERLANDS ANTILLES</b> PJ2T 10,215,532 5785 158 495	<b>ASIA</b> <b>JAPAN</b> 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	<b>GERMANY</b> DF0HQ 19,859,880 11474 189 733
<b>SLOVAK REPUBLIC</b> 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	<b>SLOVENIA</b> S57AW 6,782,202 4134 172 626	<b>PHILIPPINES</b> 4G1A 1,041,320 1571 99 181	<b>THAILAND</b> HS0AC 2,733,510 3326 99 291	<b>ESTONIA</b> ES9C 15,710,400 10628 188 712	<b>SOUTH SHETLAND</b> R1ANF 1,273,158 1962 80 181	<b>HUNGARY</b> HG6N 16,609,584 10511 178 701	<b>SPAIN</b> EA4ML 12,785,300 9147 164 624
<b>SWEDEN</b> 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	<b>SPAIN</b> EA5KM 2,302,479 2818 110 367	<b>MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA UNITED STATES</b> KC1XX 24,386,352 9689 196 752 W3LPL 24,093,155 9496 197 768	<b>OCEANIA</b> <b>VANUATU</b> YJ0V 3,095,064 3507 117 239	<b>FINLAND</b> DF0HQ 19,859,880 11474 189 733	<b>UKRAINE</b> 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	<b>KALININGRAD</b> RW2F 21,740,852 11827 200 758	<b>YUGOSLAVIA</b> YU1ANT 2,874,190 3645 111 382

Disqualified: EW50—noncompliance with the single operator rule.

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