

Results of the 1998 CQ WW DX SSB Contest

BY BOB COX*, K3EST

With high expectations of the start of the new cycle, contesters from around the world were prepared for a weekend of great fun and propagation. Hundreds of contesters left the warm comfort of their homes to head for greener pastures. From beginners to seasoned veterans.

The new cycle began by giving 15 meters back in a big way. Ten meters returned but was still the little sister to 15 meters. Overall the conditions were great for most of the world and the bands were alive with signals. Many records fell. However, as the comments in the "QRM" testify, contesters from the British Isles to The Netherlands experienced gale-like conditions and Scandinavia seemed to be in a Faraday cage. Look at the 10-meter and 15-meter QSO totals and you will see what difference a year makes. With 3,540 SSB logs received, the 1998 DX contest turns out to be the largest reported DX contest in history. With hundreds of people getting on planes, into cars, or on boats and heading off to some exotic QTH, the number of countries available to the contester and DXer soared to 230. So read on and see how everyone did and make your plans now to join in the great contest party: The 1999 CQ WW.

High Power

The all-band competitors sure like to travel. Of all the top ten scores, only one was operating from his own shack. We all owe a special debt of gratitude to these intrepid travelers. They fill up the bands with their excellence and enthusiasm.

The competition for first and second was the closest in years. Operating just south of the equator on either side of South America, Rich, HC8A (N6KT) and Jim, PTØF (N5FA), went all out to take advantage of the improving conditions. Both had arrived in their respective QTH's well before the contest. When the final bell rang, top world honors were garnered by Rich, HC8A. Making nearly 9,000 QSOs is a lot of fast talking. Jim was very close behind. On his first solo all-band effort, he



Joint strategy session for B1A/B1Z groups. Left to right: BA1DU, BA1KA, BA1FB, OH2KI, BA1AJ, OH2PM, OH6LI, OH2BH, BG1SUN, BG1BF, BZ4DCH, BD1CM, OH2TA, BA1RB, and BZ1OM.

sure made a big splash with an outstanding multiplier. Rich's effort was also enough to set a new all-time World All Band record. Congratulations to both. Third place and first place in Africa with a new African record was Bernd, DL6FBL, who put CN8WW on the map. Bernd just edged out Pekka, EA8AH (OH1RY).

As they say in real estate: location, location. And Robert, GIØKOW sure has a good QTH. But the story doesn't end there. He also has put a lot of work into building a very competitive station. Coupled with his operating skills, he took the top spot in Europe. Second place went to Harry, RA3AUU, who traveled over to Belgium and put OT8T (ON4UN's QTH) into many logs. Third place was won by perennial high finisher: 4N9BW.

The U.S. top spot was again claimed by John, K1AR, operating at K1EA. It seems that you might be able to hear Europeans at that QTH without antennas! It sure plays and, with a maestro like John at the wheel, it is tough to beat. Second place honors go to Tom, W2SC, who traveled from Kansas to operate from K5ZD/1. Third place was Bill, W4AN. Bill has built

his station up to the point that he can really make it play. There is a big satisfaction in seeing something you made really work. Three zone 4 stations made the top ten. Steve, N2IC/Ø did a fantastic job from out in Colorado edging out Mike, W9RE. Jim, N3BB/5, put Texas in the top ten for the first time in a while.

Low Power

Taking time off from his photography business in Quito, Pedro, HC1OT, decided to see what he could do in the low power category. What he could do turned out to be the #1 score in the world by a large margin. Pedro also set the all time South American Low Power record. About 4,000 miles to the northwest, Dale, XL7A (VE7SV), was also entering the LP category. When the dust settled, he had secured second place world over YS1RR. Special mention should be made of the outstanding job done by Jacky, E31AA (F2CW). He put a new country in a lot of logs.

As always the competition in Europe is fierce in the Low Power category, so to

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TROPHY WINNERS AND DONORS

- SINGLE OPERATOR**
World All Band
HC8A (Opr. Richard Smith, N6KT)
Donor: Dave Rosen, K2GM
WA2RAU Memorial
- World Low Power**
Pedro Katz, HC1OT
Donor: Slovenian Contest Club
- World QRP**
John M. Desloge, Jr., N6MU
Donor: Lew Sayre, W7EW
- World Assisted**
Jeffrey Briggs, K1ZM
Donor: Snake River Contest Club
- U.S.A.**
John Dorr, K1AR
Donor: Potomac Valley R.C.
KC8C Memorial
- U.S.A. Low Power**
Ann M. Santos, WA1S
Donor: North Coast Contesters
- U.S.A. Zone 3**
W7AT (Opr. Lew Sayre, W7EW)
Donor: Bill Fisher, W4AN
- U.S.A. Zone 4**
Steven London, N2IC/B
Donor: CQ Magazine
- Canada**
VE1JX (Opr. Kenneth Ruddock, K6HNZ)
Donor: Niagara Frontier Int'l DX Assn.
VE3WT Memorial
- Caribbean/C.A.**
PJ8Z (Opr. Donald Daso, K4ZA)
Donor: Alex M. Kasevich, VP2MM
- Europe**
Robert Cummings, G1ØKOW
Donor: Potomac Valley R.C.
W4BVV Memorial
- Europe Low Power**
Peter Pfann, DL2NBU
Donor: Scott Jones, N3RA & Tim Duffy, K3LR
- Africa**
CN8WW (Opr. Bernd Och, DL6FBL)
Donor: Gordon Marshall, W6RR
- Asia**
C4A (Opr. Ivo Pezer, 5B4ADA)
Donor: Dayton 2 AM Pizza Gang
- Japan**
Kazuhiko Endo, JAØQNJ
Donor: Japan Crazy Contesters Club
- Oceania**
9M6AAC (Opr. Bruce D. Lee, KD6WW)
Donor: Northern California DX Club
- South America**
PTØF (Opr. Jim Hoffman, N5FA)
Donor: Yankee Clipper Contest Club
- South America—Mainland**
Horacio Botero, HK6KKK
Donor: Jose L. Bachmann, ZP6CC
& Cesar Ivaldi, ZP5K
- SINGLE OPERATOR, SINGLE BAND**
World—28 MHz
ZX5J (Opr. Sergio Lima de Almeida, PP5JR)
Donor: Joel Chalmers, KG6DX
- World—21 MHz
9J2A (Opr. Akira Minagawa, JAØJHA)
Donor: Robert Naumann, N5NJ
- World—14 MHz
8R1K (Opr. Marko Myllymaki, N5ZO)
Donor: North Jersey DX Assn.
K2HLB Memorial
- World—7 MHz
IG9T (Opr. Alberto Annesi, IV3TAN)
Donor: Fred Laun, K3ZO
K7ZZ Memorial
- World—3.7 MHz
IG9T (Opr. Antonio D. Asta, IT9EQO)
Donor: Fred Capossela, K6SSS
- World—1.8 MHz
VE1BY (Opr. Yuri Blinarovich, K3BU)
Donor: Robert Wruble, W7GG
- USA—28 MHz**
Chuck Dietz, K25MM
Donor: Donald Thomas, N6DT
- USA—21 MHz**
WØUN (Opr. George Schultz, WØUA)
Donor: David Hueben, KBØISS
- USA—14 MHz**
Daniel Handa, W7WA
Donor: Southern California DX Club
- USA—7 MHz**
Steven R. Kelly, K7EM
Donor: Stanley Cohen, W8QDQ
- USA—3.7 MHz**
K1FZ (Opr. Lawrence F. Emery, K1UO)
Donor: Arnold Tamchin, W2HCW
- USA—1.8 MHz**
Wallace Eccles, W8LRL
Donor: CQ Magazine
- Carib./C.A. (28 MHz)**
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Donor: Snake River Contest Club
- Europe—28 MHz**
PJ8A (Opr. Jeff Morris, 9H1EL)
Donor: Chod Harris, VP2ML
- Europe—21 MHz**
Zdravko Balen, 9A9A
Donor: Tine Brajnik, S5ØA
- Europe—14 MHz**
Wilfried Gottschald, DJ7AA
Donor: A. G. Anderson, GM3BCL
- Europe—7 MHz**
9A5Y (Opr. Ozren Niksic, 9A7W)
Donor: Roger Burt, N4ZC
- Europe—3.7 MHz**
Tine Brajnik, S5ØA
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I3MAU Memorial
- Europe—1.8 MHz**
Virgis Matzevicius, LY3BS
Donor: Robert Kasca, S53R
- Oceania (21 MHz)**
9M8R (Opr. Jim Sullivan, W7EJ)
Donor: Bruce D. Lee, KD6WW
- Japan—21 MHz**
Tom A. Tatomi, JA5OVU
Donor: DX Family Foundation
- Japan—14 MHz**
Hiro Shiozawa, 7L1GVE
Donor: Take Yokoyama, JL1BLW
- MULTI-OPERATOR**
SINGLE TRANSMITTER
World
C56T (Oprs: DL5NAM, DF4RD, OE2VEL,
DL8UD, OE2MON, DL9NDS)
Donor: Southern California DX Club
W6AM Memorial
- U.S.A.**
KC1XX (Oprs: KC1XX, KM3T, K1GQ, K1DG,
KC1F, AD1C)
Donor: Carolina DX Association
- Carib./C.A.**
FG5BG (Oprs: N6RV, W6SR, N6ED,
K6RO, W6KK, N6RT)
Donor: Eric Scace, K3NA
- Africa**
EA8ZS (Oprs: EA8ZS, EA8KK, EA8PP, EA8BYL,
EA8AM, EA8BTA, EA3ELM, EA2KL)
Donor: CQ Magazine
- Asia**
UPØL (Oprs: UN9LW, UN7LZ, UNØLW, UN7LAN)
Donor: Edward L. Campbell, AH2BE
- Europe**
TM2Y (Oprs: F6ARC, F6BEE, F6FGZ, F5MUX,
F5NLY, F5SNJ, F9IE)
Donor: Bob Cox, K3EST
- Oceania**
T32MP (Oprs: KØMP, NØKV, WØNF, AE7C)
Donor: Junichi Tanaka, JH4RHF
- South America**
9Y4NW (Oprs: DK6WL, DL4MCF, DL4MDO,
DL4MEH)
Donor: Victor Burns, K16IM
- South America—Mainland**
CE3F (Oprs: SM3SGP, CE3FIP)
Donor: Tomas Zappini, ZP5AZL &
Renato Bellucci, ZP5XF
- MULTI-OPERATOR**
MULTI-TRANSMITTER
World
PJ9B (Oprs: K1XX, K2SS, K3EST, K3MM,
KB2XZ, KL2A, N3ED, N6IG, W3UM, WA3LRO)
Donor: Dave, W6NL and Barb, K6BL Leeson
- U.S.A.**
K3LR (Oprs: K3LR, N3RA, W3GH, ND8L,
K8GL, K9VV, K5TR, K8CX, K3UA, XE2AC, W8JV,
KA3JWJ)
Donor: Paul Hellenberg, K4JA
- Europe**
M8T (Oprs: G4BAH, G3XTT, G3WGN, OH6YF,
G4VMM, GØCYB, G4BUO, G4TSH, G4JVG,
G4PIQ, G4BWP, GØAEV, GØKRL, GØWCW,
GØOZS, G3PJT, GØHSS, GØAFH)
Donor: Finnish Amateur Radio League
- Japan**
JA5BJC (Oprs: JA5BJC, JA5FDJ, JA5JCC,
JA5THU, JH5FXP, JH5RXS, JR5JAO, JR5VHU)
Donor: Ryozo Goto, JH3JYS
- CONTEST EXPEDITIONS**
World Single Operator
E31AA (Opr. Jacky Calvo, F2CW)
Donor: Capitol DX Association
Stuart Meyer, W2GHK Memorial
- World Multi-Single**
C56T (Oprs: DL5NAM, DF4RD, OE2VEL,
DL8UD, OE2MON, DL9NDS)
Donor: Tachio Yuasa, JA9VDA
- World Multi-Multi**
T88X (Oprs: JA6VZB, JA1WSX, JF1MIA,
JR6IQI, JQ6GDP, JHØXUP/6, JE2PCY)
Donor: Dieter Löffler, DK9KD
DJ3NG & DJ4EI Memorial
- SPECIAL EVENT AWARD**
Chinese Radio Sports Association
B1A, B1Z, B4R, B7K
Donor: CQ Contest Magazine
- SPECIAL SINGLE OPERATOR AWARDS**
World-All Band Under 21 years old
Hamilton Oliveira Martins, PY2XE
Donor: Gene Zimmerman, W3ZZ
- World All Band High YL**
Emily Thiel, P43E
Donor: Yutaka Tanaka, JH3DPB
KA6V Memorial

end up on top is a real accomplishment. That position goes to Peter, DL2NBU. His UBN was one of the best in the world with a log with very few errors in it. Second place went to Gediminas (LY3BA) using the special call LY63BA. The "bronze medal" goes to T99W. The winners are more or less N/S in central Europe.

In the SOABLP USA category, it was Ann, WA1S, easily coming out on top with over 1.5M. This is Ann's second major win in a row, establishing her as a force to be reckoned with. Ann starting dabbling in this category several years ago and was "surprised" when she made the top ten "without really trying." Now that she is more serious about her effort, you can see that it is really paying off! Low Power (in terms of raw numbers of entrants) is THE MOST competitive category in the CQWW.

Second place goes to Fred, NA2U, with just under 1.3M. Fred is another example of a contester who just keeps trying and keeps getting better and better. This is his best place of finish since he started entering this category. He has steadily built up his station and antennas (which are still quite modest by most standards). A great effort Fred; hang in there! Right behind Fred is K1VUT with 1.2M. And the perennial West Coast Top Ten guy makes it again. WA7BNM/7 finishes in 5th place with just over 1M. Great job on those contest calendars, too!

QRP

The QRP category was a big surprise this year. Finishing FIRST IN THE WORLD with 612k is N6MU. Not only is this the first time that a West Coast station has won QRP for the U.S., it is also a first for winning the world—WOW! John (who operated from N6NB's qth at 7,000 feet elevation) has been very active in contesting recently. Told that he had achieved "a coup" in the CQWW, he modestly stated that it was due to a lack of participation by VE3KZ and KR2Q. Come on, John, take your bow! You deserve it!

Second in the world with 575k is another familiar face: YU1KN. Representing the East Coast U.S. and in third place for the world is K2PS with 525k. Fourth place world goes to LU1VK with 518k while the sixth place world finisher was taken by JR4DAH with 419k. It's really exciting to see the top six slots distributed over four continents.

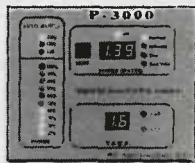
Assisted

The World Assisted class was topped by Jeff, K1ZM. Operating from his new QTH on Cape Cod, Jeff showed everyone how it is done. Second and third place went to last year's one and two. This year, TM2V, operated by F6GYT, outdistanced Roland, DK3GI, at club station DL0WW.

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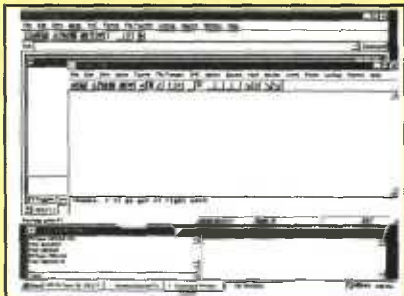


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TEAM CONTESTING

1. Neiger's Tigers Team #1: 63,665,482. By CN8WW (DL6FBL), SU2MT (CT1BOH), ZD8Z (N6TJ), EA9AM (K6NA), P4ØW (W2GD).
2. Contest Club Finland #1: 28,987,393. By OHØZ (OH1EH), CP6AA (OHØXX), EA8AH (OH1RY), 8R1K (N5ZO), 8P9V (OH6RX).
3. Contesting.com: 22,033,083. By N2IC/Ø, K4AB, W4AN, AA4S, PJ8Z (K4ZA).
4. Yugoslavian Contest Team: 19,145,024. By 4N9BW, 3V8BB (YT1AD), YT1AD (YU1DX).
5. Team Aruba: 18,954,500. By P43A, P43E, P43T, P43W, P4ØB (P43P).
6. Neiger's Tigers Team #2: 17,230,198. By W1WEF, W9RE, WB9Z, V47KP (W2OX), GW4BLE.
7. Crazy German Contesting Gang: 14,828,884. By A61AC (DL2CC), DLØWW (DK3GI), DL3NCI, DL4NAC, DL6MHW.
8. Neiger's Tigers Team #3: 5,043,999. By P4ØN (W5AJ), CT1ELP, NA2U, TL5A (PA3DZN), K3BYV.
9. Don Darias Contest Team: 4,665,198. By GM8V, GM4AFF, GM4YXI, GWØGEI.
10. ZA-TE Plus Team: 3,939,736. By 9A/WA4IMC, 9A9A, 9A6A, 9A7R, 9A2EU.
11. Yugoslavian Single Band Team: 2,271,389. By 4N7B, YT1BB, YU1JW, YT1R.
12. Labre-SP Contest Team: 2,296,032. By PQ2A, PY2XE, PY2KP.
13. Team Tennessee: 1,863,861. By KF4ZR, N4KN, NN4T, NY4T, WO4O.
14. Contest Club Finland #2: 1,620,590. OH2LU, OH6NIO, OH8BQT.
15. TuPY TEAM #1: 895,661. By PR2W (PT2AW), PY2NY, PY2KQ, PY2APQ.
- *16. TuPY TEAM #2: 847,985. By PY2ELG, PY2TI, PY2XE.
- *17. DX Cachafaz's Team: 669,052. By LU4HUG, LU5HY, LU9HOA, LW5HBR, LW6HAR.
18. Contest Club Finland #3: 623,804. By OH3WW, OH5BM.
- *19. Old Friend's Team: 453,603. By S57CQ, S57DX, S58WW.
- *20. Northern Greece Contest Team: 433,432. By SV2CWY, SV2BFN, SV2AEL.

* All Team Low Power

Roland continues to get a great multiplier. Allowing Barbados to break into the top ten for the first time was 8P6SH. With the spread of the Internet, gateways into packet systems around the world have all but eliminated packet isolation. Second behind K1ZM in the U.S. and fourth in the world was K11G. Third place was taken by Charlie, K3WW, who gave his best for the FRC.

Once again our log-checking found several instances where stations lost points because QSOs were logged on the wrong band. Apparently some operators lose track of their band changes at times.

And again some entrants lost QSOs by grabbing packet announcements and logging the announced callsign without listening to verify the call. The call may be wrong on packet.

Multi-Single

Putting together a world class multi-single operation requires a lot of planning. A lot of groups put in the effort in 1998. Jumping on a plane and heading out to DX locations were dozens of expeditions. The world's top MS score was a DXpedition by the Bavarian Contest Club,



Pedro Katz, HC1OT, #1 World Low Power.

TOP SCORES IN VERY ACTIVE ZONES

| ZONE 3 | | ZONE 14 | |
|----------------|-----------|--------------|-----------|
| *XL7A..... | 3,513,342 | GI0KOW..... | 7,388,788 |
| W7AT..... | 2,838,786 | OT8T..... | 6,791,449 |
| WC6H..... | 2,699,175 | GW4BLE..... | 4,520,836 |
| W7GG..... | 2,512,806 | DL4NAC..... | 4,395,584 |
| K7RI..... | 2,150,582 | DJ4PT..... | 3,452,766 |
| N7TT..... | 2,082,483 | F5NBX..... | 2,965,933 |
| K6GX..... | 1,776,620 | *DL2NBU..... | 2,049,057 |
| VE7IN..... | 1,462,734 | G0IVZ..... | 1,717,760 |
| K16CG..... | 1,276,560 | DJ6QT..... | 1,633,980 |
| *WA7BNM/7..... | 1,097,250 | DL8PC..... | 1,574,056 |

| ZONE 4 | | ZONE 15 | |
|-------------|-----------|--------------|-----------|
| N2IC/0..... | 3,777,672 | 4N9BW..... | 5,240,144 |
| W9RE..... | 3,588,312 | OK1RI..... | 4,838,015 |
| WB9Z..... | 3,028,104 | OH0Z..... | 3,742,508 |
| K0RF..... | 2,926,228 | YT1AD..... | 3,023,440 |
| K4AB..... | 2,747,136 | LY5W..... | 1,905,260 |
| K9BGL..... | 1,414,992 | YZ7AA..... | 1,838,467 |
| VE3XN..... | 1,340,180 | *LY63BA..... | 1,707,480 |
| VE3AT..... | 1,334,377 | IK4ADE..... | 1,705,088 |
| W5MN..... | 1,272,503 | IZ8Z..... | 1,695,172 |
| W5WMU..... | 1,164,908 | *T99W..... | 1,653,300 |

| ZONE 5 | | ZONE 25 | |
|-------------|-----------|--------------|-----------|
| K1AR..... | 5,952,375 | JA0QNJ..... | 3,093,912 |
| K5ZD/1..... | 5,481,048 | JA8RWU..... | 2,673,128 |
| W4AN..... | 4,989,960 | JS3CTQ..... | 2,211,638 |
| K3ZO..... | 3,815,240 | JM1XCW..... | 1,720,383 |
| N2LT..... | 3,572,140 | JA7BEW..... | 1,504,128 |
| W3BGN..... | 3,401,478 | *JL1ARF..... | 1,238,204 |
| N3BB/5..... | 3,232,413 | JA0QWO..... | 989,080 |
| K2DM..... | 3,068,044 | JH4ADK..... | 978,193 |
| W1WEF..... | 2,819,586 | JA2BNN..... | 922,610 |
| VE1JX..... | 2,870,952 | *JE0UXR..... | 911,616 |

* Low Power

ZONE LEADERS SINGLE OPERATOR

| Zone | Call | Score | Zone | Call | Score |
|------|---------|------------|------|------------|------------|
| 1 | KL7AC | 772,310 | 21 | A61AC | 5,424,530 |
| 2 | *VE2GSO | 546,096 | 22 | *AT0MB | 803,665 |
| 3 | *XL7A | 3,513,342 | 23 | *UA0YAY | 344,311 |
| 4 | N2IC/0 | 3,777,672 | 24 | VR98BG | 795,511 |
| 5 | K1AR | 5,952,375 | 25 | JA0QNJ | 3,093,912 |
| 6 | *XE2DV | 1,052,625 | 26 | 3W6US | 538,450 |
| 7 | *YS1RR | 2,761,850 | 27 | KH0I | 3,506,976 |
| 8 | PJ8Z | 8,591,520 | 28 | 9M6AAC | 8,710,746 |
| 9 | P40W | 14,020,064 | 29 | No Entry | |
| 10 | HC8A | 17,055,106 | 30 | VK5GN | 2,282,132 |
| 11 | PT0F | 16,519,026 | 31 | NH7A | 4,393,940 |
| 12 | XR3M | 1,338,350 | 32 | FK8HC | 1,505,160 |
| 13 | LU1HLH | 2,664,288 | 33 | CN8WW | 15,375,060 |
| 14 | GI0KOW | 7,388,788 | 34 | SU2MT | 11,805,734 |
| 15 | 4N9BW | 5,240,144 | 35 | 6V1C | 1,623,378 |
| 16 | RW4AA | 2,778,560 | 36 | ZD8Z | 13,715,460 |
| 17 | EX8W | 4,020,525 | 37 | *E31AA | 2,589,816 |
| 18 | RZ9UA | 1,211,679 | 38 | ZS6BXN | 2,529,660 |
| 19 | *UA0JH | 972,036 | 39 | *FR/DL5JMN | 28,714 |
| 20 | C4A | 9,781,930 | 40 | *TF8GX | 254,775 |

* Low Power

SINGLE OPERATOR MAX BOX

| QSOs | | DXCC | | | |
|-------|-----|------|-------|-----|-----|
| ZX5J | 28 | 5392 | ZX5J | 28 | 183 |
| 9J2A | 21 | 5411 | ZX9A | 21 | 180 |
| 8R1K | 14 | 3469 | DJ7AA | 14 | 174 |
| IG9T | 7 | 2128 | 4N7B | 14 | 174 |
| S50A | 3.7 | 1689 | 9A5Y | 7 | 135 |
| LY3BS | 1.8 | 1222 | S50A | 3.7 | 117 |
| | | | SV8CS | 1.8 | 77 |

Single Band 40 Zone Club

21 MHz: OE6Z (Opr. OE6MBG), SP5GRM, 9A9A, OM7M (Opr. OM5RW), 9J2A (Opr. JA0JHA).

14 MHz: II3T (Opr. IV3YYK), EA3ATM, K4XS, YO4NF, GM8V (Opr. GM3WOJ), IT9STX, VE7XR, SN2B (Opr. SP2FAX), RZ9UA.



JA6ZPR, all in WW T-shirts. Left to right: JH6ETS, JR6CKX, JR6HVE, JH6JSR, JR6HLR, JH6SQI.

C56T. The group not only took top world honors but set a new African record along the way. Close behind was another Bavarian Contest Club DXpedition to 9Y4NW. It is wonderful to see the BCC getting in on the fun and handing out multipliers to the deserving from exotic

QTHs. Third place goes to FG5BG. They talked their way from a 2 point area into 3rd World high.

The surprise was in Europe, where the extremely accurate log of TM2Y took top honors from F6BEE's country house. Their log is a perfect example of taking the time

to get calls right before you log them. Second in the hotly contested European MS category was the IR4T team operating from their shack 150 feet in the air in a water tower! I guess they bring their own ground with them. Third place goes to the famous Hungarian station, HG1S, operating from southern HA-land.

Taking a year off from MM competition, Matt, KC1XX, put together a fine crew. With his great antenna farm and towers, they vaulted far ahead of the pack to take top USA honors. Standing alone in second place was the Frankford Radio Club station, N2NU. The real close battle was for third through sixth place. K4ISV took third. Much further west and in the thick of the battle was W9JA (now K4JA).

Multi-Multi

The crew at PJ9B once again won the Multi-Multi category. This time with the second highest score ever. They came within 3.6 million of their all-time 57.6 million point score. Their crew had no idea that they would come as close as they did to the record and were as surprised as

(Continued on page 72)

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 |
|---------|-----------|-----------|-----------|-------------|-------------|-------------|
| HC8A | 90/10/17 | 302/23/52 | 953/28/82 | 1174/33/101 | 2677/35/128 | 3764/32/121 |
| PTØF | 26/13/27 | 235/19/50 | 779/26/89 | 2132/36/138 | 1647/33/130 | 3353/29/128 |
| CN8WW | 75/8/32 | 754/19/80 | 959/22/93 | 1659/34/109 | 1777/33/119 | 2478/27/111 |
| EA8AH | 102/12/44 | 601/26/80 | 656/22/83 | 1755/36/117 | 1559/36/118 | 3054/29/100 |
| P4ØW | 84/9/22 | 423/17/65 | 663/25/85 | 1593/35/117 | 1909/34/122 | 2619/33/124 |
| ZD8Z | 26/8/11 | 116/19/60 | 366/26/66 | 1402/34/110 | 1514/35/124 | 3566/35/132 |
| SU2MT | 64/7/24 | 433/14/63 | 592/19/70 | 1018/33/112 | 1489/32/110 | 2876/33/109 |
| 3V8BB | 21/7/54 | 564/19/78 | 642/27/91 | 873/38/120 | 1531/34/130 | 1342/36/117 |
| C4A | 150/9/50 | 314/17/73 | 757/24/89 | 1138/32/99 | 1194/31/111 | 1552/33/126 |
| EA9AM | 119/8/37 | 441/19/63 | 436/21/66 | 807/25/87 | 1389/32/99 | 1882/27/107 |

USA TOP SINGLE OPERATOR, ALL BAND

| Station | 160 | 80 | 40 | 20 | 15 | 10 |
|---------|----------|-----------|-----------|-------------|-------------|------------|
| K1AR | 27/9/19 | 258/17/80 | 295/28/84 | 870/39/137 | 1267/34/136 | 404/29/103 |
| K5ZD/1 | 58/11/30 | 335/18/77 | 310/24/82 | 1051/35/116 | 1063/32/110 | 263/25/76 |
| W4AN | 36/13/22 | 167/17/62 | 347/29/91 | 697/35/116 | 1167/32/123 | 356/30/98 |
| K3ZO | 21/9/12 | 261/18/62 | 214/22/73 | 507/33/98 | 866/30/107 | 462/28/106 |
| N2IC/Ø | 35/11/20 | 110/23/49 | 444/27/66 | 404/34/109 | 819/32/110 | 524/28/82 |
| W9RE | 28/11/19 | 156/23/68 | 190/25/80 | 522/36/120 | 932/34/120 | 262/27/88 |
| N2LT | 19/6/9 | 105/14/47 | 114/23/61 | 609/34/109 | 1138/33/121 | 285/26/89 |
| W3BGN | 40/13/25 | 141/16/61 | 159/20/68 | 627/36/106 | 643/33/102 | 503/27/104 |
| N3BB/5 | 18/6/13 | 47/16/28 | 401/24/59 | 172/30/85 | 1111/33/104 | 691/32/83 |
| K2DM | 21/6/13 | 215/18/66 | 122/22/67 | 617/31/97 | 730/26/105 | 315/25/77 |

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

| | | | | | | |
|-------|-----------|-----------|-------------|-------------|-------------|-------------|
| C56T | 48/10/28 | 190/17/60 | 655/27/88 | 2716/37/148 | 1999/36/154 | 2995/35/153 |
| 9Y4NW | 92/13/30 | 358/21/71 | 921/27/100 | 2704/35/124 | 2071/32/131 | 2471/28/130 |
| FG5BG | 122/10/23 | 460/18/72 | 585/22/74 | 2093/34/122 | 2458/33/127 | 2497/29/125 |
| TM2Y | 216/9/53 | 492/21/85 | 798/32/124 | 1258/37/150 | 1550/37/144 | 845/32/139 |
| IR4T | 133/11/61 | 474/23/92 | 1141/34/131 | 948/38/155 | 1898/38/158 | 457/34/151 |
| EA8ZS | 22/4/13 | 291/12/48 | 792/27/93 | 822/34/124 | 1702/31/121 | 1528/30/133 |

USA MULTI-OPERATOR SINGLE TRANSMITTER

| | | | | | | |
|-------|----------|------------|------------|-------------|-------------|------------|
| KC1XX | 47/13/44 | 514/24/100 | 396/30/114 | 1147/39/165 | 1216/33/162 | 309/30/141 |
| N2NU | 38/13/34 | 381/22/95 | 167/27/94 | 1037/40/159 | 1128/36/160 | 255/30/129 |
| K4ISV | 28/13/24 | 96/26/67 | 291/31/97 | 998/39/138 | 895/33/145 | 337/30/126 |
| W9JA | 33/15/26 | 76/22/56 | 209/30/98 | 679/40/148 | 1058/36/156 | 400/30/118 |
| N4TO | 32/12/26 | 197/20/76 | 149/28/92 | 558/38/131 | 791/36/145 | 744/31/137 |
| K8AZ | 31/11/25 | 111/22/69 | 163/28/94 | 847/39/145 | 951/35/144 | 334/30/135 |

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

| | | | | | | |
|-------|-----------|-------------|-------------|-------------|-------------|-------------|
| PJ9B | 351/15/41 | 1062/27/101 | 2540/34/140 | 4725/39/185 | 5190/39/180 | 5460/35/176 |
| EA9EA | 190/10/48 | 1463/26/99 | 1608/32/116 | 3102/40/158 | 3491/39/153 | 2808/36/157 |
| V26B | 437/15/39 | 1155/27/101 | 1792/29/124 | 3579/38/167 | 3831/36/170 | 4315/34/151 |
| P3A | 360/9/57 | 1255/22/94 | 1992/34/126 | 2774/39/145 | 3647/40/159 | 3047/38/158 |
| IH9P | 632/10/68 | 1059/20/86 | 1575/33/115 | 2777/40/151 | 2487/36/134 | 2353/36/162 |
| KH7R | 152/10/11 | 911/28/61 | 1654/35/88 | 2818/39/141 | 4173/37/119 | 3763/36/104 |

USA MULTI-OPERATOR MULTI-TRANSMITTER

| | | | | | | |
|-------|-----------|------------|------------|-------------|-------------|-------------|
| K3LR | 143/17/42 | 884/27/102 | 838/36/128 | 1931/40/173 | 1881/39/174 | 975/33/142 |
| N2RM | 121/13/34 | 786/30/110 | 651/28/112 | 1669/40/169 | 2091/38/169 | 920/31/140 |
| W3LPL | 203/18/51 | 726/25/104 | 517/28/105 | 1691/40/161 | 1650/36/162 | 1162/32/150 |
| W1FJ | 100/13/46 | 685/24/98 | 389/27/98 | 1468/39/150 | 1421/34/141 | 578/30/124 |
| W2A | 27/9/14 | 502/22/94 | 333/30/99 | 1708/40/157 | 1482/35/156 | 651/30/135 |
| K9NS | 45/11/19 | 335/28/93 | 436/32/111 | 1073/40/157 | 1339/37/158 | 962/33/143 |



Jim, N3BB/5.



Hugo, XE1CRO, in his first contest.

anyone at the final bell. EA9EA finished second just ahead of a half dozen teams from all around the world. P3A broke the Asian record by almost 10 million points, and JA5BJC, from their beautiful mountain top QTH in central JA5, raised the JA record by 800,000 points. Continental leaders were EA9EA (AF), P3A (AS), M8T (EU), V26B (NA), KH7R (OC), and PJ9B (SA).

In the U.S., a remarkable win was posted by K3LR who beat out N2RM for top USA honors, with W3LPL a close third. Tim's crew can be proud of their out-

standing effort. Look at their multiplier totals. Quite outstanding! The U.S. MM leader is usually from the far east coast, but Tim has proven that with the right conditions and crew it can happen further west.

Putting up with gale winds, the gang from M8T finished on top in Europe. This is quite an achievement for the FD-style M8T crew. Not far behind in second place was OT8A. What an effort they had with 76 operators! What a good way to bring many hams into contesting. Third place goes to the famous RW2F crew.

There was very strong representation from all over the world in the Multi-Multi class this year. The U.S., JA, and European winners didn't manage to crack the top ten. While South America seems to still be the place to be, with Africa coming very close at times. Four of the top ten operations were from North America and two operations from Oceania made the top ten this year. Congratulations to all the teams, who did so much work to build and man these multi-multi stations. These are the beacons that show us what the true potential of all the bands.

Team Contesting

You can have fun with the team category. Five members from around the

EUROPE TOP SINGLE OPERATOR, ALL BAND

| Station | 160 | 80 | 40 | 20 | 15 | 10 |
|---------|----------|-----------|------------|-------------|-------------|------------|
| GI0KOW | 197/9/51 | 738/19/82 | 547/22/95 | 1930/34/118 | 1425/35/113 | 431/24/80 |
| OT8T | 119/8/55 | 409/21/82 | 585/30/120 | 947/39/138 | 1125/35/139 | 293/30/136 |
| 4N9BW | 233/8/53 | 411/15/71 | 771/31/108 | 924/36/138 | 1033/36/117 | 350/33/121 |
| OK1RI | 174/9/47 | 301/11/56 | 758/27/91 | 1114/33/106 | 1043/35/107 | 343/30/85 |
| GW4BLE | 84/6/36 | 271/11/48 | 353/21/62 | 962/31/100 | 1064/30/101 | 587/25/85 |
| DL4NAC | 125/8/41 | 227/12/60 | 542/28/94 | 831/32/123 | 930/31/123 | 263/31/109 |
| OH0Z | 54/5/28 | 559/15/66 | 636/25/92 | 1213/34/113 | 1005/33/116 | 424/26/85 |
| DJ4PT | 82/6/34 | 335/18/66 | 355/28/83 | 764/32/107 | 771/30/105 | 199/27/82 |
| YT1AD | 125/6/44 | 125/8/44 | 433/24/77 | 845/31/95 | 1079/30/99 | 193/24/78 |
| F5NBX | 51/5/24 | 278/14/55 | 283/23/65 | 566/26/80 | 1235/29/106 | 156/23/73 |

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

| | | | | | | |
|------|-----------|-----------|-------------|-------------|-------------|------------|
| TM2Y | 216/9/53 | 492/21/85 | 798/32/124 | 1258/37/150 | 1550/37/144 | 845/32/139 |
| IR4T | 133/11/61 | 474/23/92 | 1141/34/131 | 948/38/155 | 1898/38/158 | 457/34/151 |
| HG1S | 384/9/54 | 879/19/83 | 1151/34/129 | 1303/37/150 | 1766/37/149 | 479/32/132 |
| TM1C | 50/7/50 | 653/21/79 | 982/29/112 | 1588/37/126 | 1162/33/127 | 382/24/107 |
| OK5W | 46/7/46 | 389/18/79 | 1029/32/126 | 1245/39/148 | 1190/37/142 | 250/34/125 |
| CU2V | 163/7/23 | 415/11/33 | 519/14/48 | 1139/24/83 | 1710/27/91 | 2321/25/89 |

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

| | | | | | | |
|-------|-----------|-------------|-------------|-------------|-------------|-------------|
| M8T | 668/10/66 | 1289/26/101 | 1609/28/129 | 2737/39/176 | 1958/40/177 | 1057/31/155 |
| OT8A | 865/10/64 | 1398/20/87 | 2089/33/125 | 2559/38/166 | 2195/36/158 | 798/30/139 |
| RW2F | 693/11/64 | 1206/26/101 | 1531/37/130 | 2262/38/157 | 1397/37/155 | 771/30/129 |
| OH2HE | 646/10/63 | 838/23/96 | 1535/36/139 | 2043/40/166 | 1182/36/143 | 616/29/138 |
| HGGY | 368/8/58 | 994/16/78 | 965/26/113 | 1886/38/148 | 2190/38/150 | 978/35/145 |
| DL0CS | 632/10/58 | 1029/22/89 | 1245/29/126 | 1354/37/151 | 1090/38/156 | 523/29/137 |

world or from rival clubs in the same country is all you need. Once again the number one team was Nieger's Tigers #1. This team set a new team contesting record of over 63 million points. That works out to be 12.6 Meg per team member! It was only 10 years ago that the single operator record was 12.7 million. Second place honors go the Contest Club Finland. Putting together Finns from all over the world, the CCF beat out Contesting.com, who finished very high with only one outside the country DXpedition. Congratulations to all the teams.

New All Time SSB Records

WORLD: AB HC8A (N6KT); 28 ZX5J (PP5JR); L21 OK1AUT/5N0; A28 ZZ5G (PY5GU); **AFRICA:** AB CN8WW (DL6FBL); 28 5X1T (ON6TT); L28 9G1BJ; L21 OK1AUT/5N0; MS C56T; **ASIA:** C4A (5B4ADA); 21 5B4AGC; 3.7 5B4/NP3D; L28 5B4/EW1AR; L14 RJ9J (RA9JR); L3.7 4L5O; QA JR4DAH; Q7 JA6GCE; MM P3A; JAPAN: QA JR4DAH; Q7 JA6GCE; Q3.7 JA1AA; MM JA5BJC; **EUROPE:** AB GI0KOW; **NORTH AMERICA:** AB L28 XE2DV; L21 V31MX; USA: A21 N3RD; **OCEANIA:** 21 9M8R(W7EJ); L14 FK8FI; **SOUTH AMERICA:** AB HC8A (N6KT); 28 ZX5J (PP5JR); LA HC1OT; L28 LR0H (LU9HS); L14 LU2NI; A28 ZZ5G (PY5GU)

Special Mention

The CQ WW brings out the best and 1998 was a banner year. The CQWW saw another major breakthrough when such goodies as B1A, China's first Multi-multi and B1Z (Multi-single) hit the airwaves from downtown Beijing. It was a definite BY fiesta, and B1A alone made some 9,000 QSOs, not only handing them out but also introducing the Chinese to the art of contesting during this historic weekend (see photo). The CQ WW congratulates B1A and B1Z and all the hams involved in bringing contesting to Chinese amateurs. There were several real great battles in the multi-single category, especially, in the Caribbean. Check out the results to see how close VP5DX, VP2V/K7AR,



Eli, PT7BZ, always a big signal.



WP2Z (left to right): N2WB, W4WX, W5OXA, W4CJK, AA9TK, VE3FU.

H18/DK8YY, FM5BH, and WP2Z ended up. Wow! Now that is competition. Several single band efforts were outstanding from Africa. Topping the list was the score made by Akira, JA0JHA as 9J2A. He was certainly in the right place. Look at his score from southern Africa: top number of single band QSOs made by a single op. Over in west Africa, 9G1BJ set a new low power, 28 MHz record with an outstanding effort. Last year's IG team reprised their effort on single bands with two world highs and a second place. ZX5J operated by PP5JR was world high 28 MHz with 183 countries, tops for a single operator. In the all band category, Jose, CT1BOH, put his considerable talents behind the SU2MT callsign and gave practically everyone a double multiplier.

Comments

A. Rule Change: In the last few years, several operators have submitted several logs using the same callsign. Persons are now beginning to abuse the single callsign concept. For 1999, there is a new CQ WW rule which reads: "A different callsign must be used for each CQ WW entry."

B. Log Analysis: Ever since the UBN reports became available to the public in March of 1998, the CQ WW Contest Committee has been working hard to increase the depth of analysis and the ease with which we can understand reports. The crunching of log data and the effort to make the analysis as good

TOP SCORES

WORLD

HIGH POWER
All Band
HC8A.....17,055,106
PT0F.....16,519,026
CN8WW.....15,375,060
EA8AH.....15,277,596
P40W.....14,020,064
ZD8Z.....13,715,460
SU2MT.....11,805,734
3V8BB.....10,881,440
C4A.....9,781,930
EA9AM.....8,749,164

28 MHz

ZX5J.....3,322,230
5X1T.....2,501,521
LU6ETB.....2,368,128
6V1C.....1,623,378
CX8CP.....1,513,691
FK8HC.....1,505,160

21 MHz

9J2A.....3,043,872
ZX9A.....2,597,688
TL5A.....2,211,366
9M8R.....1,944,800
9Y4VU.....1,804,386
P43A.....1,783,821

14 MHz

8R1K.....1,719,836
CT3BX.....1,279,785
RZ9UA.....1,211,679
DJ7AA.....1,074,159
GM8V.....1,031,400
SN2B.....1,016,184

7 MHz

IG9T.....973,782
9A5Y.....513,342
LZ3ZZ.....459,511
IK2NCJ/4.....378,378
YT1BB.....362,294
K7EM.....354,148

3.7 MHz

IG9T.....473,594
S50A.....357,846
5B4/NP3D.....250,416
9A6A.....235,807
K1FZ.....234,260
OK2RZ.....220,032

LOW POWER

All Band
HC1OT.....5,660,880
XL7A.....3,513,342
YS1RR.....2,761,850
E31AA.....2,589,816
J6/K3LP.....2,221,698
EA8AG.....2,072,406
DL2NBU.....2,049,057
LY63BA.....1,707,480
T99W.....1,653,300
LU5VV.....1,618,176

28 MHz

9G1BJ.....1,458,044
XE2DV.....1,052,625
LR0H.....1,026,564
P40N.....959,728
LU3HIP.....923,904
4X1VF.....904,639

21 MHz

OK1AUT/5N01.....590,300
5X1Z.....1,084,671
CT3DZ.....866,392
TA3D.....660,136
LU5HCI.....563,849
Z31GX.....539,766

14 MHz

LU2NI.....708,344
FK8FI.....630,605
LU3MDO.....623,840
DU3RCM.....564,589
9A/WA4IMC.....438,501
Z39Z.....414,711

7 MHz

S57DX.....177,642
YV5DZQ.....114,048
CT1BWW.....103,736
T95A.....101,505
LU4DX.....90,896
S54A.....80,128

3.7 MHz

4L5O.....146,316
YM75TA.....88,200
SV2CWY.....84,630
F2EE.....49,938
YU1CC.....48,646
IK3SSJ.....47,888

1.8 MHz

HA8BE.....36,894
YU1RA.....14,250
EA1DVY.....7,332
SP9RPW.....6,168
EI7IU.....5,989
DL1KZA.....4,943

QRP

All Band
N6MU.....612,264
YU1KN.....575,600
K2PS.....524,901
LU1VK.....518,169
N0KE.....499,280
JR4DAH.....419,482
EA1GT.....304,792
LY2FE.....287,532
JA2DLM.....270,336
YU1LM.....269,325

ASSISTED

All Band
K1ZM.....5,168,493
TM2V.....4,670,048
DL0WW.....4,358,410
K11G.....4,335,610
KS1L.....4,088,666
K3WW.....3,488,265
K6PSH.....3,029,400
K3NZ.....3,161,220
W1GD/2.....2,867,834
K1VR.....2,861,712

MULTI-OPERATOR

SINGLE TRANSMITTER
C56T.....19,118,437
9Y4NW.....17,929,236
FG5BG.....12,042,342
TM2Y.....10,381,027
IR4T.....10,063,075
EA8ZS.....9,313,670

MULTI-OPERATOR

MULTI-TRANSMITTER
PJ9B.....53,994,248
EA9EA.....32,346,460
V26B.....30,539,106
P3A.....29,108,800
IH9P.....26,830,830
KH7R.....26,436,483

EUROPE

SINGLE OPERATOR
HIGH POWER
All Band
GI0KOW.....7,388,788
OT8T.....6,791,449
4N9BW.....5,240,144
OK1RI.....4,838,015
GW4BLE.....4,520,836
DL4NAC.....4,395,584
OH0Z.....3,742,508
DJ4PT.....3,452,766
YT1AD.....3,023,440
F5NBX.....2,965,933

28 MHz

9H0A.....892,515
CT4NH.....874,665
TM6P.....584,355
4O6A.....450,248
S53R.....446,200
CT1AHU.....408,192

21 MHz

9A9A.....1,517,020
OE6Z.....1,053,032
IY4W.....1,005,714
S50C.....1,001,662
GM4FDM.....907,144
S50U.....842,800

14 MHz

DJ7AA.....1,074,159
GM8V.....1,031,400
SN2B.....1,016,784
4N7B.....945,507
OH0MM.....843,081
S53M.....771,876

7 MHz

9A5Y.....513,342
LZ3ZZ.....459,511
IK2NCJ/4.....378,378
YT1BB.....362,294
HG9X.....328,482
OM5M.....270,340

3.7 MHz

S50A.....357,846
9A6A.....235,807
OK2RZ.....220,032
SP7GIQ.....147,599
S51OI.....107,613
LY61FW.....90,436

1.8 MHz

LY3BS.....93,610
S57M.....50,040
YZ6A.....49,640
OZ3SK.....46,368
4O6A.....43,524
SV8CS.....39,284

LOW POWER

All Band
DL2NBU.....2,049,057
LY63BA.....1,707,480
T99W.....1,653,300
9A2EU.....1,457,708
DF7RX.....1,319,744
ON7RN.....1,309,902
S59AA.....1,276,560
YU7AL.....1,275,000
LY2BTA.....1,150,515
DL1MGB.....1,096,959

28 MHz

EA7GTF.....400,652
EA7FTR.....391,820
CT1ELP.....370,194
CT1ESO.....369,025
EA7HBP.....364,287
IS0GYW.....310,990

21 MHz

Z31GX.....539,766
UA4LCQ.....459,062
RU4PL.....387,855
EA7DBO.....336,812
YR9P.....290,832
F5BMK.....256,452

14 MHz

9A/WA4IMC.....438,501
Z39Z.....414,711
Z31JA.....378,184
ES2RJ.....339,328
IQ7A.....335,916
S58WW.....258,366

7 MHz

S57DX.....177,642
CT1BWW.....103,736
T95A.....101,505
S54A.....80,128
UT1T.....62,177
IR7S.....54,900

3.7 MHz

SV2CWY.....84,630
F2EE.....49,938
YU1CC.....48,646
IK3SSJ.....47,888
4N1A.....42,028
EC1CFD.....41,676

1.8 MHz

HA8BE.....36,894
YU1RA.....14,250
EA1DVY.....7,332
SP9RPW.....6,168
EI7IU.....5,989
DL1KZA.....4,943

QRP

All Band
YU1KN.....575,600
EA1GT.....304,792
LY2FE.....287,532
YU1LM.....269,325
S59D.....253,270
HA7YS.....251,085
SM3CCT.....122,304
OK1DKS.....93,312
IK5RUN.....85,100
I0KHP.....70,020

ASSISTED

All Band
TM2V.....4,670,048
DL0WW.....4,358,410
OE6SKQ.....2,685,358
S57S.....2,547,000
DJ2YA.....2,445,801
OL6X.....2,271,368
OK2FD.....2,174,589
IO4A.....2,103,696
DL1MFL.....1,881,124
IN3ZNR.....1,707,198

MULTI-OPERATOR

SINGLE TRANSMITTER
TM2Y.....10,381,027
IR4T.....10,063,075
HG1S.....8,234,800
TM1C.....7,456,080
OK5W.....6,670,332
CU2V.....6,346,475

MULTI-OPERATOR

MULTI-TRANSMITTER
M8T.....16,183,028
OT8A.....15,288,750
RW2F.....11,212,410
OH2HE.....10,157,670
HG6Y.....10,154,965
DL0CS.....7,914,186

USA

SINGLE OPERATOR
HIGH POWER
All Band
K1AR.....5,952,375
K5ZD/1.....5,481,048
W4AN.....4,989,960
K3ZO.....3,815,240
N2IC/0.....3,777,672
W9RE.....3,588,312
N2LT.....3,572,140
W3BGN.....3,401,478
N3BB/5.....3,232,413
K2DM.....3,068,044

28 MHz

KZ5MM.....597,144
W6YA.....420,930
W5OB.....404,379
W6NL.....389,838
N4BP.....388,950
K0KE.....304,569

21 MHz

W0UN.....720,954
NN4T.....552,292
N0NR.....544,893
W4MR.....400,368
K6AW.....400,040
WA2QNW.....339,200

14 MHz

W7WA.....781,440
K4XS.....705,272
K3CR.....543,904
W7IL.....310,288
W4RRR.....233,970
W8JGU.....189,497

7 MHz

K7EM.....354,148
KV0Q.....280,462
KZ2I/4.....74,732
K2WE.....63,162
NC4NC.....45,200
W7CB/6.....32,508

3.7 MHz

K1FZ.....234,260
K4ZW.....188,500
KM2P.....150,150
KE1Y.....130,005
K1LZ.....122,605
W6KW.....102,717

1.8 MHz

W8LRL.....6,496
W2VO.....6,096
AA1BU.....4,042
N6RO.....2,314
AA4MM.....1,254
K0CS.....1,188

LOW POWER

All Band
WA1S.....1,516,347
NA2U.....1,288,518
K1VUT.....1,241,934
KQ3V.....1,195,116
WA7BNM/7.....1,097,250
K1VW.....1,087,384
WS1A.....1,012,440
WT1O.....963,500
WW3S.....910,610
N4DL.....887,295

28 MHz

K7JA.....244,976

K6KAY.....185,334
K6RO.....174,832
KT3RR.....148,905
K2MFY.....144,560
KR5V.....142,410

21 MHz

N4MO.....243,460
NY5B.....173,088
KF8K.....168,635
N6WLX/8.....158,485
K4SN.....133,416
NW7Q/8.....132,616

14 MHz

K4PC.....221,998
W7FP.....130,739
WD4CNZ.....55,800
K1EFI/3.....46,400
KG7RZ.....44,986
AF8C.....27,552

7 MHz

W4UM.....31,770
WB2ZTH.....10,868
WG1Z.....8,480
KQ6ES.....7,014
K4LDR.....2,660

3.7 MHz

WT3W.....9,196
W9LYN.....2,871

QRP

All Band
N6MU.....621,264
K2PS.....524,901
N0KE.....499,280
W6YJ.....230,144
N1TM.....189,210
W8QZA/6.....149,580
N0FW.....135,870
WA3KNO.....118,164
N4IJ.....117,950
NQ7X.....70,680

ASSISTED

All Band
K1ZM.....5,168,493
K11G.....4,335,610
KS1L.....4,088,666
K3WW.....3,488,265
K3NZ.....3,161,220
W1GD/2.....2,867,834
K1VR.....2,861,712
N3AD.....2,758,920
K5KG/2.....2,714,067
W2RE.....2,576,988

MULTI-OPERATOR

SINGLE TRANSMITTER
KC1XX.....8,728,040
N2NU.....6,702,771
K4ISV.....4,928,232
W9JA.....4,879,400
N4TO.....4,775,592
K8AZ.....4,660,446

MULTI-OPERATOR

MULTI-TRANSMITTER
K3LR.....15,428,117
N2RM.....14,680,668
W3LPL.....13,990,992
W1FJ.....9,809,720
W2A.....9,391,460
K9NS.....8,498,458



Vladimir, UX7MM.

as possible requires a lot of man hours. Hundreds and hundreds of hours are put into the UBN report before the entrant sees it. This year we have added the feature of marking QSOs which are removed from a log with a minus(-) sign. One of our prime directives, that all logs are treated exactly the same way, is fulfilled by the computer. Each log is rescored by a common .CTY file. The CQ WW .CTY file is updated each year after the contest to include any unusual callsigns or locations.

Access codes are sent out to every entrant who submits an e-mail log. If you sent a disk of your log, your personal UBN is available by sending an inquiry to <question@cqww.com>. If you sent a paper log only, no analysis of your log is easily available to you

You should review your UBN list to learn how to improve your contesting effort from year to year. If you are human, you make errors. Some do not like to admit this and consider themselves flawless. But you are not. You should seek to improve your skill. The guys/gals at the top are the first to thank the CQWWCC for providing a heretofore unobtainable insight into their logs. They try to improve and so should you. Just as in anything else, practice makes perfect. So what should you make of the report that you receive? In a rough sense you can view your **score retention** as a "grade." Just like when you were in school. So that 90-100 is an "A", 80-89 is a "B," etc. The strong words we have received from contesters everywhere are, "Thanks for this service. I can see how to improve." And that after all is the whole idea. To improve your skill.

C. Packet: Repeating this same paragraph from last year is warranted. The use of packet is perfectly OK for those who claim assisted or multi-operator. Any use of packet in any other category is wrong. If you are going to enter the HP, LP, or QRP categories you cannot receive any packet help. If you want to try to work some new DX countries, packet is an easy way

to do it. Just claim assisted. A serious problem occurs when nine of the top scores in a category play by the rules and one decides to cheat. It is not fair or right that the entrant be entered into the same category as the others.

D. Log Submission: It is hard to believe that only a few years ago there were no e-mail submissions. Boy, how times have changed. Of the 3,540 SSB logs we received this year, 2,215 were electronic! Of those electronic, 1,750 were e-mail submissions! Wow! E-mail is the way to go when submitting your log and summary. It is easy and cheap. Please try it this year. **Send your CQ WW SSB log and summary to <ssb@cqww.com>.** You will receive a robotic response saying that your log was received by the CQWWCC. That will be followed in a while by a personalized access code so you can view your log and UBN report. Try it, you will like it. If you submit your log on a disk, please remember to name the files you send correctly. Do NOT give them names like 99ssb.sum for example. Name them with your callsign, e.g. HS0AC.sum. Please **send your CQ WW CW log and summary to <cw@cqww.com>.**

Many entrants send a paper log which is computer printout without sending a disk or e-mail log. If you use a computer to generate your log, you can create a file from the logging software that you can submit as an electronic log. Please take the time to send in an electronic log. If you do not know how to do it, ask a friend. Your log will help make the checking of all the CQ WW logs better and more accurately certify the winners.

Thanks

Thanks to the CQ WW log checkers who validated the winners and provided insight into many contesting topics. The 1999 crew includes: K1DG, K3UA, K3WW, K3ZO, K6NA, KR2Q, N2AA, N2NC, N3ED, N6ZZ, N9RV, W3ZZ, and W7EJ. Our DX advisors were very helpful in offering advice, providing information and sorting out potential problems: CT1BOH, DL6RAI, EA3DU, F6BEE, G3SXW, HS0/G4UAV, I2UIY, JE1CKA, OH2KI, OH2MM, OK2FD, ON6TT, PY5EG, S50A, UA9BA, VE3EJ. The decoding log team consisted of N3RA, K3LR, W3ZZ, and N5NJ. Special advisors were N2AA, N8BJQ, W0UN, and K3ZO.

Once again a special thanks to Dick, N6AA, who again spent countless hours to make the CQ WW database the best in contesting. Dick received beta test input from Phil, N6ZZ. The CQ WW uses the software developed by Tree, N6TR, to create all scores and analyses. John, K2MM, created the entire WWW log entry information. His robot worked smoothly in acknowledging receipt of a log. Tack, JE1CKA, has maintained the non-log data

on cqww.com. Translations of the rules into Spanish, Japanese, German, and French were done by EA3DU, JE1CKA, DL6RAI, and F6BEE. Larry, N6TW, put in hundreds of hours and he was invaluable in retrieving and processing data from e-mail submissions. Thanks to John, K1AR, for his advice and hard work to make the CQ WW so successful. What you see in the magazine required thousands of hours of work by many people. Thanks to Martti, OH2BH, for providing the information on B1A and B1Z.

Congratulations to all the winners! To participate and have FUN is what contesting is all about!

See You in the '99 CQ WW!

73, Bob, K3EST

DX QRM

Murphy strikes again. After 3 hours of contest I lost final stage of TS950S. It took me almost 5 hours to borrow TS930S from Emil, 9A9A. DX conditions were fair but not as good as they were the week before contest. . . **9A2EU.** What a competition. This year SOAB Top Ten box scores might be over a hundred million points! . . . **C4A (5B4ADA).** My first ever SOAB in a CQWW. Glad to be able to make it after 7 years of university studies and other commitments. Great fun. Had 9 hours of sleep despite two alarm clocks. Many thanks to my old school station who hosted me! I will be back! . . . **C4W (5B4WN).** Line noise inhibited full-time operation. Next time better luck. . . **CP6AA (OH8XX).**

I was waiting long time to have again conditions to do a CQWW DX monoband on 10m! Unfortunately, I couldn't stay all time I wanted (particularly on Sunday), but I enjoy every minute I was on, especially the unexpected opening to the States on Saturday afternoon. It prevented me from having lunch, but it worth the sacrifice. It was the best opening I ever had: 600 QSOs in 6 hours. WOW! Great fun. I sure will be back next year! . . . **CT1EAT.** As always, I have fully enjoyed to run this contest. Propagation was less than ideal for the QRP work, but I could manage to get some successful contacts. I hope to be here again in the forthcoming issues of this great contest. Thank you very much for your good work; please keep on it! . . . **CT1ETT.**

Despite an agreement with a nearby record studio, they had to record for a few hours on Sunday afternoon at our best 15m U.S. time and we had to shut off our amplifiers. . . **DF3CB.** We did not have too much luck for our first serious attempt as Multi/Single. Right at the beginning the two antenna tuners broke down, packet radio followed soon afterwards, and after 12 hours we lost one amp. Anyway, the real problem was just to come: A few hours later a heavy storm built up, and one after the other we lost all our antennas, so after 22 hours the contest was over. . . **DF4SA.** It was my first SO contest I got above the magic 1M points. It was a great feeling to hear such good signals on 10m from every continent. Hope to improve for next year on 40m. Who spends for a 40m Yagi? Thanks for the evaluation. You are making a good job! Carry on! . . . **DL1MGB.**

This contest is absolutely dedicated to newcomer Holgi, who helped me so much to get antennas working before and during the contest. Storms were so strong. . . **DLANAC.** Condx were lousy; the northern path was absolutely rotten, even with some aurora. Guess I was too much to the north. It's painful to hear the southern European stations working piles of W's, and you can only "search & pounce! . . . **DL8OH.** Lucky to there (E3) for the contest. What a shame with 100 watts and a loop antenna. Even if the call adds a few dB, it's very hard to find a clear frequency where people can hear you. Still a lot fun and I hope some of you got a new country. . . **E31AA (F2CW).** Ten meter opening this year was the highlight of the contest for me. . . **EI4DW.**

I missed the 1997 edition of CQWW SSB due the arrival of the baby in our family. I can't say anymore than that I would never have missed CQWW for anything else in the world. I'll just say that CQWW is now just coming after my wife and my daughter. . . **F6HLC.**

Some trouble with the 40m Yagi and the mult station. Nevertheless a lot of fun. See you next year, gentlemen . . . **FMSBH**. Very much enjoyed the contest again. Unfortunately, not able to take part until late on Saturday and then most of Sunday . . . **G0MRH**. Had a big flood at the club station—2.5 feet of water—so intended MS effort was QRT this year! But managed to get on for a few hours and got lots of new band countries . . . **G0MTN**. Gale-force winds nearly blew over my antenna which started up at 90 feet. On Saturday afternoon it had to be lowered to 25 feet and tied down safely . . . **G4AXX**.

Lost main antennas in severe wx condx (70+ mph winds). Continued on makeshift dipole at 40 feet . . . **G4WPD**. Lost 40m Yagi after first 12 hours; hurt the score. Anyway, it wouldn't be a contest if something didn't break! . . . **G1BKOW**. Conditions were great. Picked up a lot of new countries and I was amazed when I managed to work ten stations on 160m, my first time on top band . . . **GM3UTQ**. Severe storm hit UK during contest. South Wales was worst affected area with floods and strong gales. Had to wind my crank-up tower down to just 30 feet on Saturday evening and it stayed like that 'til end of contest! Was not conducive to big score! . . . **GW4BLE**. With this year's special call we tried to give more stations a chance to work us on all band. Our next goal is to join the 40 years activity in the CQWW contest. Trx to everyone . . . **HB5H**.

Very difficult with only one vertical antenna and long wire. I will try to put better antennas for the CW part . . . **HB9ARF**. This was my very first contest from my new QTH. Thanks for the XYL allowed me to do; thanks for the new call sign from my PTT, made everything easier . . . **HA5JI**. Back in the WW after too many years . . . **I2WJ**. Exciting multinational team's experience: a nice group of operators, most looking for their first time in a real M/M effort, some simple but effective homemade antennas and accessories, a beautiful island, a lot of fun. See you next year from India Hotel 9 Pantelleria! . . . **IH9P**. I lost first night due to a wedding going on Saturday morning, so I couldn't drive from Milan to Bologna till its end. I had fun anyway. Condition poor with W6 and W7 on 40 from CA, worked only W6EEN but good with Pacific area. KH7R was S9 on Saturday morning. I lost VK's from zone 29 that normally it's an easy QSO . . . **IK2NVJ/4 (IQ4A)**.

First time in CQWW; nice experience. Good propagation in 10 meters. For our working conditions a nice score . . . **IQ9A**. For the first I (IK1GPG) have activated a small MS station with my wife Betty (IK1QFM). Fantastic experience . . . **IR1A**. I, JA1XRH, participated in this CQWW contest for the first time. I will try to do next CQWW again . . . **JA1XRH**. It was very good propagation on 15m so that I could contact many stations including several Caribs . . . **JA9SCB/1**. Propagation was not good, but I could enjoy the contest. 400 QSOs would be good enough for 50 watts . . . **JF3PLF/3**. Thank you for picking up my weak signal . . . **JK1ATT**. I enjoyed first over 100,000 points, and I got 9J, Z28, 3DA5, IG9 African station. Especially 10m band was very good. I feel to start of "The 23th cycle" . . . **JR1SGU**.

Low power is fine. Good condx 10m on Sunday. Lost KH6 and FK8 on 10m . . . **LY2BTA**. My plan was over 4M points. Wasn't good conditions to JA and USA. Ten meters was fine with many rare DX. Nine new ones! Waiting now for CW part my favorite mode . . . **LY5W (LY1DR)**. High winds in England made Saturday night an exciting experience. All our towers are temporary and a 3-ele 40m beam on a crank-up tower in 70 mph winds is quite a sight. Amazing that the only damage was to one element! Still we'll be back next time, hopefully in calmer wx and better condx. ood luck with all the scoring . . . **M8P**. First day not so good. Second day was better especially on 10, but Murphy was here on the second day morning. A very heavy windstorm damaged all my wire ants. Must repair some wires to work on the low freqs! . . . **OE2S (OE2GEN)**.

XYL loved the contest. Plenty of time left to enjoy the weekend. Poor opening to JA on Saturday, great openings to W. Lots of activity! GREAT FUN! . . . **OE6Z (OE6MBG)**. This year had even poorer band conditions than the last year. Well, new internet/DXCluster technology helped us to grow mult total by almost 100! . . . **OH1AF**. Our 160m operator almost swallowed his tongue when, out of the blue, he suddenly heard a loud B1A on 1830 kHz, and immediately thereafter an even louder V8A calling B1A, and only a second after that, AH2R also calling B1A. Disappointingly, all managed to disappear quickly so he wasn't able to call them but once with



Alain, FK8FI (left), and Eric, FK8GM, put FK on the map.

no luck. The time was about 1515Z, some 20 minutes past our sunrise. A humble plea to the Far Eastern stations: There is a very good chance for a QSO with Finland on 80 and 160 meters around 1350Z! Anyway, the CQWW 1998 SSB was great fun again, and we certainly hope to hear you all joining us in the "Paksalo Polka" during CQWW CW, too! . . . **OH2HE (now OH2U)**.

The propagation was so poor that I had to search & pounce most of the contest. When I saw the WWV figures of Friday, I mentally oriented to a different approach on this one and had a lot of fun. At least the multiplier total is satisfactory. See ya next year . . . **OH6NIO**. As usual I had great fun. Lot of multipliers come on CQ. See U next year with better antenna and hope better CONDX . . . **OM7M (OM5RW)**. Broke my personal best records . . . **OL6X (OK1DIG)**. Fabulous contest, great conditions. Congratulations to the winners. Local thunderstorms first day worst in years . . . **P40W (W2GD)**. Talk about local RF leaving Aruba—many stations asked how many of "us" were down here . . . **P43A**. A tremendous gale forced us to keep the crank-up towers in a low position. If we had extended them to their full height we wouldn't have had any tower left after the storm (and the contest) was over . . . **PA3DWD**.

We had to combine 10 and 160 meters. During this weekend we had a big storm (windforce 10-11). For approximately 10 hours it wasn't possible to turn the beams. This cost a lot of QSOs and multipliers. An AM broadcast station on 828 kHz with 20 KW only 1 km away from us give us so many receiving problems on 160m that it is impossible to hear weaker signals. We missed a lot of stations by this QRM, sri guys. We are working on getting better reception . . . **PI4COM**. Thanks, K3LR, the only one from USA on 40 meters, just under ZP station. Many surprises from everywhere, very nice score. Best QSO number with my R7 . . . **PY2NY**. It was just plain fun! I didn't do it for years, and could hardly imagine that we will be able to make over 1000 QSOs . . . **RA3AA**.

Worked 160m VE1BY, 80m V26B, 80m VP2E, 40m AL7O, SU2MT on 6 bands, AH2R and CN8WWW on 5 bands, and many others DX. We have also all bands 151 DXCC countries QSOs during the contest. Glad to see you in next test . . . **RN4W**. Unfortunately, I do not have great antennas for 160/80/40, but I do my best! It was great fun! . . . **RV6LFE**. First time with 3-el Yagi (on 80m). My good old dipole is retired . . . **S50A**. No more wins with 3-element tribander from the city. Next year must run from remote location with much bigger antenna. Another new one—Eritrea! . . . **SP5DDJ**. This contest was second time experience in Central America, and we are very happy with good antenna, equipment, etc., and good friend Keko, T15KD, MNY TNX! . . . **T15WFM**.

Had lot of fun. The propagation was good, mainly in 10 meters. It was a pity that our 80m antenna didn't work. See you next year from? . . . **TO8B**. Condx on 160 seem to avoid me; another year of rough going to Europe. Tried to be extremely careful while logging. No more UBNS? . . . **VE1BY (K3BU)**. Our first trip to Sept-Iles Quebec (Zone 2). It's a long drive but worth the trip. Nice setup there and Jean Claude (VE2XY) Rodrigue (VE2NN), and Frederick (VA2FFG) were very helpful. Propagation sure is different than it is in "1-land" and we needed to learn a few tricks. There were a couple of nice openings on almost every band,

although northern Europe was missed. Lots to think about and plan for next year . . . **VE2CSI**.

Murphy struck with RF in the shack when on 40 and 80 meters, but we had fun doing the contest, even with repairs made in progress . . . **VE3DC**. The aural event was pretty noticeable here with only SM2EKM being far enough north to sneak under the curtain. The rest of Scandinavia had to wait for the next day, as did the Russians except for a RN6 who was far enough south to skirt the problem. It was interesting to operate in parallel with the VE3EJ (MM) who is within line of site across Lake Ontario. Came close enough to their 15M score to feel I had done well. Laili, VA3RU, did very well as the main 15m operator! . . . **VE3KZ**. Great to see the 10m band back in all its glory! I missed several countries and zones because the pile-ups were just humongous . . . **VE3SRE**.

Glad to see the bands alive again. 10m and 15m were "meat and potato" bands for me. Some sleep and an Aerosmith concert on Saturday night kept me from having an even bigger total score! . . . **VE3STT**. The bands were great on Friday evening up to Saturday evening. We focused on 10 and 15 meters during the early part of the contest, having been deprived of working these frequencies in the past years. It was great having those runs of JA's again. (Now if we could only talk faster) . . . **VE6FI**. Lots of activity on the bands. Had lots of fun for my first CQWW test. Hope to be back for more . . . **VO1WET**. We had many hours of high rates. This was a fun trip . . . **VO2WL**. Equipment description: 6 bottles Malibu rum, 5 cases Heinekens, 1 case rum, 10 cases soda, 2 radios, 2 amps, 7 antennas . . . **VP5DX**.

Missed too many multipliers because when the band is open to Asia, everybody runs JA and rarely, if ever, listens for weak non-JAs . . . **VR98BG**. My first contest. I'm 18 years old and it was great! See you next year . . . **XE1EZM**. The threat of a typhoon forced us to take down some of our antennas with 14 hours remaining in the test . . . **XX9X**. It was nice to operate from 1700 meters a.s.l. in the mountains near the city of Stip. Good conditions to USA/JA both days . . . **Z1GIX**. Very strange conditions, especially to the US. There was a period when the conditions were changing so fast between North America and South America. In any case I enjoyed . . . **Z31JA**. Murphy 1, Chris 0. Hardware problems, family problems, and thunderstorms sank my All Band plans . . . **ZS6EZ**.

USA QRM

My second contest. I'm hooked! . . . **AD6EN**. Wow! Nice to almost work DXCC on 10m in one contest! First contest with Classic 33 tribander at 70 ft. . . . **AJ4Y**. This is my first entry, although I've operated in CQWW for years now. Hope to make a better showing next year when I get the tower up. Using only verticals can be a real handicap in those pile-ups. But it can still be real fun too! . . . **K0IL**. I'm always amazed at propagation. Fighting to be heard in 20 meter pile-ups to Zones 6/7/8/9 and then working the JA's and ZL's easily with 30 dB weaker signals . . . **K1TH**. First time ever on 10m during a contest opening. Need I say more! . . . **K2CS**. New beam first try, 40 and 80 not working. Fun, fun anyway . . . **K2FR**. This is my first time in CQWW SSB. Put in 3.5 hours, had a blast. Hope next time I can spend more time at it . . . **K2ZQ**.

For many countries, it was the first time that I had ever heard the callsigns, let alone worked them in my 31 yrs of being a ham! Thanks to Dr. Jim Breakall, WA3FET, for this wonderful opportunity . . . **K3CR (WA3HAE)**. We had a great time! Condx not what we hoped for, but better than last year. New 40w antenna worked well. See you next time . . . **K5MR**. My first time; lots of fun; I'll be back next year. Got to try new elevated vertical on 40, good test . . . **K5OE**. I had a wonderful time! It was awesome having 10m and 15m so productive! The biggest surprise had to be working ZD8Z on 10m, with his signal (as always) sounding like he was in the neighborhood . . . **K6GT**.

First official (serious) entry into CQWW. Had a ball. Ran single band, single op, non-assist. High power on 10m figuring no one else in this area (northern CA) would with the East Coast competition. Ten meters was booming to JA Friday night/Saturday morning . . . T2x rotator kept sticking Saturday at 70 ft. Had to rock it back/forth to get it loose! What a blast! Serious fun! . . . **K6JOX**. I wanted to break the 6-land low power 10 meter record, which I did, but two or three other guys broke it bigger . . . **K6LA**. Great 10m conditions on Friday and Saturday . . . very poor into Europe from the northwest. Sure was tough listening to everyone else in the country working Europe. Japan saved us once again! . . . **K7CAR**. Hey East Coast: Share the Europeans with us, please! . . . **K7JA**.

First time I worked this contest. Won't be the last . . . **K8PPA**. Had a blast until the end, when a real blast occurred. A resistor in the 3K-A amplifier fried and ar'd over to 4 kv, POW! Operated low power after 452 contacts. Fixed the amp the next day . . . **KC3TL**. This is the first time I have entered this contest. It was a great contest for me on 10 meters, as I was able to put more countries for DXCC on that band. 20 meters was also hopping, and gave me a couple more new ones. I look forward to next year when I can hopefully do much better . . . **KC8HWV**. The first big contest I've been in. I not only had a great time, but I heard calls in my sleep for two nights afterward. I may be hooked! . . . **KF4ZTJ**. I never intended to submit a log. I never solicited contacts but these were made "giving out points." Before I knew it, I had spent at least 15 hours trying to find stations not yet worked and also demonstrating to non-hams what the contest was about. Maybe at least I can represent the "9" call area to some small degree . . . **KF9WM**.

Spent Saturday night showing some non-hams what contesting was about. They liked it so much that they were back at 6:00 AM the next morning and stayed the whole day . . . **KF9YT**. This was my first serious effort on 10 meters and it was exciting. I found the operators were extremely well-mannered, based on my ability to hold a frequency and control of the pile-ups. Wish I had better propagation for access to more multipliers. Also, this was my first contest with CT contest software and it was fantastic. Thank you, CQ, for bringing us these contests . . . **KH6T**. New strategy increased our score 80% from the previous year resulting in a new Zone 31 record. Too bad we didn't have a decent EU opening! . . . **KH7R**.

I have been at the new QTH for 5 months now. Things seem to be falling into place nicely. My highest antenna is at 64 ft. as of now, but hope to change that by spring. Guess it helps being atop a hill with no civilization toward Europe for a few miles. Conditions on 10 were much better the first day; congrats to 5X1T for an outstanding 10 meter score (4200+ Q's 37 Z and 171 countries) wait until the band is awake for both days . . . **K1IG**. Tried to concentrate on 10m. Band was dead enough when contest started; made a few Qs on 15 and 20 just to be sure the rig was working. Learned a little about 10m. Been a while since I operated this band . . . **KJ9C**.

The contest started with me taking the day off and the condx in the toilet. Screamed and yelled all night long for a few Q's. Had a chat with Rich, K7LRA, on 40, and found he was not having too much luck either. And then—what a difference a few hours make. Had a great time on 15 and 10 the next day, and worked into EU the second evening. I think I scared a few Cyprus stations, as they were all I heard on 10 over the pole. Happy with the results. Wish I could have broken a million . . . **KL7AC**. Better condx this year, but looks like I picked the wrong bands to be on. Oh, well, at least the two 4-squares worked better; tnx for publishing low-power breakdowns in CQ Contest. Wish I had gotten them before the test . . . **KQ3V**.

My best ever score in CQWW. Ten meters was wonderful to have back again! Still not able to run with the big dogs on 20, but still a lot of fun . . . **N2QT/4**.

Only have wire antennas and the 40m full-wave broke some time on Saturday. No wonder I couldn't work anybody on that one! Next year I'll have a tower and tribander with the wires—watch out! . . . **N4CW**. My second year, and love this contest . . . **N3YEA**. Best behaved participants yet. If I could only inform the US hams not to call unless they are in the contest. I was told how slow the traffic was on road 128, was asked to check a fellow's audio and signal both upper and lower, and it goes on. It really frustrates me, what to do . . . **N4KW**. This was a rebuilding year with little to show for a year's work on the tower. Very tough conditions for the current configuration. This was a first year with packet running to the rig. Result: too much DXing and too little running. Hope to do better next time . . . **N4RV**.

Best conditions in years. We all had a great time and will be back again next year to improve our results. This year's score was 60% better than last year; conditions were major difference . . . **N4TO**. Great contest. Beat last year by 100k. My second WW SSB and first time to hear 10m open. Tnx all the Q's . . . **N5KB**. Took this opportunity to set up two stations and let some new operators get their feet wet in the world of contesting. It was enjoyable for myself (N5XM) and N5XJ to have time to teach some technique. The ribs that N5XJ made were really good . . . **N5YV**. I'm in an antenna restricted area. My antennas are intended to be invisible from the street or neighbors, unfortunately not silent. I just hung the longwire and homebrewed the Yagi. The longwire set off the burglar alarm at 3:30 AM and the Yagi started swinging in the breeze and pointed itself right at the TV in the neighbor's family room. Spent a lot of time talking and re-thinking antennas . . . **N6AFI**.

My all-time personal best, even with a break for soccer games on Saturday. I guess a new antenna and a more active solar cycle helps . . . **N7UJJ**. Great conditions on both 10 and 160 meters! A great time operating . . . **N7KQ**. Have done CQWW Phone since 1984 as WB6FCR/KH6 and WR6R/KH6. Sure nice to do it with a shorter call. Score this year about the same as last year, but it was more fun because Murphy did not happen. Next year will really be fun because I may finally get commercial power! . . . **NH7A**. It sure was fun. Our score was 250% of last year's. The bands are coming back . . . **NK7U**. Thank you JA! . . . **WBUN (WBUA)**. Lotsa fun, even with wires . . . **W1UK**. We operated Multi-Op here at what is most definitely a small single op setup, but we enjoyed the contest and did as well as we expected. What do you do when 10, 15, and 20 are all open and you have a tribander. We used the 40 meter beam on 15, and then on 10 meters, to pick up a few great multipliers . . . **W1WFZ**.

First-ever entry in CQWW, Drake C line, L4B, Cushcraft R-7 at 10 ft. All S&P . . . **WA5AM**. Our second run at this game. Went much smoother than last year but we didn't attempt QRO on the second station. Lots of improvements and nearly doubled our score from last year. The training for NU4JJ and WD4K was valuable experience and I look for great things out of them in the future! It is most humbling to operate the second station with 100 watts and a wire antenna after running the "Big" station with aluminum and a KW! Look for us next year! . . . **WACAT**. Our best effort in our 8-year history. Great openings to Oceania, and 40 meters seemed to be our hottest band for new multipliers. Worked DXCC on two bands, another first here. Still have to find a way to hold a freq. for big 20 and 15 meter runs. Our main amplifier went QRT on Sunday morning at 1100Z, but quick surgery brought it back after being down over an hour. Nice try, Murphy, but not this year. We doubled our score from 1997! . . . **W4NC**.

I think this is the first time in 6 years that I cannot complain about the weather! It was a beautiful weekend. Sure was good to hear 10 and 15 meters opening again. However, 80 and 160 never did open in my area . . . **W5CWQ**. Ten meters was great! Happy propagation is here . . . **W7BJB**. First time on the air on HF since around 1969! Despite low score, had a great time . . . **WA2BHJ**. This was my all-time best score for any contest! The band conditions were definitely better than they've been since at least 1992. My only regret (a very small one) was that I didn't make DXCC for this contest (93 unique countries) . . . **WA2CNU**. Nice to see 10m very alive again for this event. Solar Cycle 23 was a bit "too good" on Sunday afternoon giving 50 MHz paths to Ecuador! . . . **WAS1YX**.

Glad to see bands opening again. Had a good time working a few new ones. Thanks to ops who pulled through the QRP stations . . . **WA5OJL**. Best score

ever for me. First time over 1000 QSOs and first time over million points . . . **WA7BNM/6**. This was my biggest effort ever. I spent 24.5 hours on the bands and for the first time made some 80 and 40 meter contest QSOs. Working low power unassisted with an attic antenna was tough, but I was able to work some new DX countries to add to my DXCC totals. Next year I will have some kind of outdoor antenna. My congratulations to those DX ops who were able to pull me out of the mud . . . **WF2B**.

It was a blast to travel around the world in a weekend and never leave the comfort of my home-sweet-home. Viva Team Tennessee and Tennessee Contest Group! . . . **WO4O**. Competition seems to be increasing in the SOLPAB category. It's not enough to simply show up anymore. With all the talent I heard on the bands this weekend, it's getting to be a real low-power slugfest. Wait until next year! . . . **WS1A**.

Station Operators Multi-Op Single Transmitter

3E1DX: HP1XVH, DL5BRW, DL1RBR, DL9RCF. **4M7Z**: 4N7TA, YT7XT, Ivan, Anrej, 4N7NN, Stan. **4U1JTU**: OM1AM, OM2RA, OM3BH, OM3LU, OM3RM. **4U1VIC**: DH3AJ, DL1IAN, DL5IO, DL5IST, K7AWD. **9A2L**: 9A2VJ, 9A3AG, 9A4KD, 9A3DF, Varga, 9A4NP. **9A5D**: 9A3NY, 9A4NC, 9A4DU, 9A5DU, 9A6KEB, 9A6KC0. **9A7A**: 9A4RX, 9A3TR, 9A6DM, 9A4BT, 9A8A, 9A7V, 9A2ME, 9A3OS, 9A4PA. **9A7P**: 9A6NHU, 9A5AEI, 9A3RE, 9A6NPM. **9A9D**: 9A4KK, 9A4WW, 9A4DD, 9A4UU, 9A5YA. **9H3WD**: OK1AD, OK1AYU. **9V1YC**: 9V1BH. **9Y4NW**: K6GWL, DL4MCF, DL4MDO, DL4MEH. **A45ZN** & **G0MRF**. **G0PZA**. **AASNT** & **N5NJ**. **AABU** & **K8MJZ**, **W8MJ**, **N8NJK**, **KF8QE**, **K78X**, **N2DS**, **W8EB**, **K8KS**. **AB2DE**: KC2AJE, N2KPB, K8Y2J, K8Z1Z, **ABZF** & **WR2I**. **AF6P**: W6GLO, W1LLY, K6G6X, N6VVY, K6GJY, K6GKY, K6GJE, K6GJY, N6WVO, K6D1WA, N6WJN, K6GKA, K6D6V, K6E6J, K6E6K, K6GTF, K6D6G.

AY6D: LU2EU, LU3DW, LW4DX, LW5DX, LW6ETR, LW7DX, LW8DJZ. **BA4R**: BA4RC/Chen, BD4RF/Dragon, BD4RF/Dave, BD4RD/Ken, BD4RE/Yee, BY5QN/Chen, BG4REK/Kun. **BY2JHT**: Leao, Huang, Chen, Li, P. Zhang, A. Zhang, Cai, Beedlow. **BY2JCY**: Li Mingshou, Jiang Ximing, Zhang Xinghong, Yan, Yi, Yuan Guangpeng, Song Peng, Zhang Yang, Zhang Xin, Shang Rao, Li, Ching Shung, Zhang Jing. **C56T**: DL5NAM, DF4RD, OE2VEL, DL8UD, OE2MNO, DL9NDS. **C6A/KIGT**: K1G7, WR6G, KA6WHA. **CE3F**: SM3SGP, CE3FIP. **C02BC**: Winston, Bob. **C08K**: CT3BD, CT3BM, CT3CD, CT3DL, CT3FH, CT3HF, CT3KH, CT3IA, CT3AK. **C51A**: CT1DXQ, CT1FAC, CT2JUN, CT2GDF, CT2FVL. **CU2V**: DL4XS, DL3KDV, **CX1JK** & **CX1JJ**. **DF8AT**: DF6OV, DL9NC. **DF8HQ**: DL1AUZ, DL20BF, DL3TD, DL4ALB, DL4MM, DL5ANT, DL5AXX, DL7VOA.

DF9HTE: DF7ATW, DH4S0, DK1SAM, DL1SFK, DL1SBI, DL5NAH. **DF3CB** & **DK2GZ**, DL1ZIH, DL3NED, DL5MFF. **DF4SA** & **DK8TU**. **DH8D**: DF8XC, DF8AE, DK5ON, DL1YDI, DL8YFC, DL1YAW. **DK0PI**: DL3LBA, DF3GA, DL7AOS. **DK4QT** & **DK1QH**, DL1YFF, DJ7YP, DL9YED. **DK6GW**: DL3QQ, DF8QJ, DL6YFB. **DL0AD**: DL6RDE, DJ5RE, DJ6RN, DK1PR. **DL0TS**: Club. **DL20BH** & **DJ9DZ**. **DL9LR** & Others. **DN1MA**: DL7MAE, Robert, Markus. **DX100DX**: WJ1P, DU1SAN, 4F2KWT, DU1MXX, DU1JXP, DU1KBE, N9BXM, N6JFO, DU1NOP, AC6CP, DY1SNL, DY1KXR, DY1LVA. **DX1E**: DY1FD, DU1KGO, DY1KXF, DY1FYU, DY1RAN, DU1RSM, DY1FLE, 4F1RGD, 4F1EJD. **EA1CZ** & **EA1EAG**. **EA1EEY** & **EA1GS**, **EA1DZW**, **EA1CUB**, **EA1BXW**, **EA1BVP**. **EA1FE** & **EA1BFZ**, **EA1ACP**. **EA3RKG**: EA3BOW, EA3BQ, EA3DGG, EA3EIO. **EA4ML** & **EA4CT**, **EA4ET**, **EA4EY**, **EA5GR**, **EA7JB**, **EA7WA**, **EA4KA**, **EA4EPJ**, **EA4AKI**. **EA4RUK**: Club.

EA4ST & **EA4AT1**. **EA4TD** & **EA4EAF**. **EA5BY** & **EA5BXT**, **EA5EU**, **EA5FD**, **EA5GRV**, **EA5IK**, **EA5KW**. **EA5FKX** & **EA5DVS**. **EA5URP**: EA5ON, EA5DFV, EC5CPL. **EA5YJ** & **EA5CMQ**. **EA8NL** & **EA8BYU**, **EA8AKN**, **EA8BHS**, **EA8BKI**, **EA8BYU**, **EA8CAJ**, **EA8BAT**, **EA8CAP**. **EA8ZS** & **EA8KQ**, **EA8PP**, **EA8BYU**, **EA8AM**, **EA8BTA**, **EA3ELM**, **EA2KL**. **ED1BD**: EA1BD, EA1ALD. **ED1US**: EA1US, EA1DAX. **ED2BB**: EA2AN, EA2CRG. **ED2RC**: EA2CBY, EA2BFM, EC2FA, EA2ARA, EA2ABM. **ED2WW**: EA2MQ, EA2ATU, EA2CCG, EA2CNB. **ED3PX**: EA3BHB, EA3JG, EA3AR. **EK8WV**: Petrosian, Rotevian. **ES5Q**: ES5MK, ES5MG, ES5QX, ES5RN, ES5RW, ES5RY. **FKCFC**: F8BNH, F8G6C, F5UAM, F81CMF, F5AVK, F4BGO, F1ADG, F6FNL, F5OWB, F4FRC. **FG5BG**: N6RV, W6SR, N6ED, K6RO, W6KK, N6RT. **FM5BH** & **FM5BH**, **FM5DN**, **FM5DP**, **FM5DS**, **FM5FJ**.

G8B: G4L0Q, G30ZY, G4VXT, M1ACI, G4YRF, G8ATD, M0BIK, G1GSN, G40XD, G3EUS, G8FFM, G4LWA, G0BWW, G8BEG, M0AUF, G40XD. **G8Q**: G0DYU, G0MKN, G0DSH, G0SAH, G0UYN, G0WAT, G1LLW, G1GUK, G8LCO, G6PWS, G0VSA, G3ZVW, G4KZD, M0B0X, G3RWL, G4WSL, G3ZZY, G0MIC, M1CYT. **G8Y**: M0AYQ, G4IUF, G7LXK, G0LFX, G4KCT, **GM3JUL/P**: M00BRG, M0M0B0M, M0M0B0N, G0M0EQ. **H43KNA**: H43NS, H43NU, H43FTA, H43OU, H43OV. **H85H**: H89CIP, H89BLQ, H89CAT, H89CZ, H89FBG, H89FAP, H89FED, H89SUL. **H85OK**: H89FAQ, H89FBM, H89PUE, H89FBS, H89DQA, H89SUL, H89FBL, H89OAB. **H89JML**: H89AUL, H89BYT, H89FAW, H89FBO, H89OCR, H89SFD, H89YC, H89BQC, H89EEX, H89HA, Emanuele, Damiano, Silvano. **H89AJM** & **H89AGC**, **H89ALM**, **H89APU**. **HG1S**: HA1TJ, HA1DA, HA1DAC.

IH3ON4ANT & **ON4GG**, **ON4AME**, **ON5LV**, **ON4CBA**, **ON4AWK**, **ON4AMM** (YL). **IH8DKBYR** & **DL1JDK**, DL3ALI, DL4LAN, DL4JS. **HS0AC**: HS1CK, HS0GB, E21EC, HS1ZB, HS0VGC, HS0NDK, HS0MYW, **HZ1AB**: K3NA, G0WRHC, G3UPT, G7SPL. **IK4QJM** & **I24COW**. **I02A**: IK2RP, IK2KHT, IK2CIO, IK2XRW, IK2XRS, I2FT, IK2AH, IK2YYS. **I02L**: I20KW, I2ZAC, I2W2AJ, I2KYE. **I09A**: I79AJ, I79CL, I79NO. **I7A**: IK1GP, IK1QM. **I7P3**: I73DM, I73JV, I73BK, I73BTY, I73NTA, I73WPR, I73FAS, I73NBV, I73NUR, I73BSU, I73WVF, I73WZG. **I7AT**: I4UJF, I4V5S, I4JMY, I4K4IE, I4K4MH, I4K4UP, I4K4MT, I4K2SG, I4K2S, I79SF, I79STG. **I02C**: IK2ULH, IK2JEF, I2ZAHF, IK2WQK. **I03RAV**: I73VY, I73WQF, I73GHY, I73VJH, I73RCH. **I23ALM** & **I23ALS**: I3K3TZ, I3K3GI, I73FQM, I73HUG, I23ALQ.

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 boldface. (All country terminology reflects the DXCC list at the time of the contest.)

SSB RESULTS SINGLE OPERATOR NORTH AMERICA

UNITED STATES

| | | | | | |
|-------------|-----|-----------|------|-----|-----|
| K1AR | A | 5,952,375 | 3121 | 156 | 559 |
| K5ZD/1 | " | 5,481,048 | 3080 | 145 | 491 |
| (Opr. W2SQ) | | | | | |
| W1WEF | " | 2,819,586 | 1934 | 128 | 433 |
| KQ2M/1 | " | 1,789,984 | 1431 | 118 | 370 |
| K5MJA | " | 1,626,816 | 1332 | 112 | 346 |
| W1TE | " | 1,421,490 | 1101 | 110 | 380 |
| KD1YN | " | 1,405,107 | 977 | 117 | 396 |
| K1RM | " | 1,336,215 | 1247 | 88 | 301 |
| W1ZT | " | 1,166,844 | 945 | 111 | 368 |
| W1KRS | " | 977,390 | 814 | 95 | 335 |
| K1YT | " | 911,640 | 822 | 105 | 321 |
| W1RY | " | 806,784 | 764 | 81 | 293 |
| W0MHH/1 | " | 770,364 | 734 | 88 | 290 |
| W1UK | " | 719,394 | 706 | 96 | 305 |
| K1CN | " | 604,500 | 596 | 96 | 276 |
| N1API | " | 596,594 | 745 | 71 | 246 |
| N1E2C | " | 503,084 | 567 | 85 | 261 |
| W1ZS | " | 422,940 | 563 | 66 | 219 |
| W1AX | " | 393,962 | 532 | 65 | 216 |
| KE1IH | " | 359,520 | 455 | 81 | 240 |
| W8HAP/1 | " | 332,400 | 496 | 77 | 223 |
| K1BV | " | 309,118 | 505 | 67 | 187 |
| W81GEX | " | 274,594 | 410 | 69 | 182 |
| K1AE | " | 224,361 | 339 | 63 | 194 |
| KM3T/1 | " | 158,641 | 336 | 46 | 127 |
| KE1KD | " | 138,170 | 261 | 56 | 149 |
| W3TB/1 | " | 122,385 | 270 | 58 | 141 |
| K8CH/1 | " | 85,176 | 211 | 45 | 124 |
| W1WGT | " | 69,046 | 153 | 53 | 105 |
| AA1SU | " | 43,648 | 154 | 44 | 84 |
| K2LP/1 | " | 38,544 | 150 | 48 | 98 |
| W1DE | " | 37,146 | 127 | 53 | 98 |
| W1FV | " | 32,857 | 122 | 32 | 71 |
| K1BW | " | 16,287 | 61 | 36 | 53 |
| W1M1 | 28 | 209,808 | 598 | 29 | 115 |
| KB1DEA | " | 18,340 | 112 | 17 | 53 |
| K1APRD | " | 12,644 | 93 | 14 | 44 |
| N1UVA | " | 1,200 | 21 | 10 | 15 |
| K1DWW | 14 | 154,354 | 394 | 35 | 107 |
| AA1QK | " | 4,232 | 66 | 14 | 32 |
| K1FZ | 3.7 | 234,260 | 699 | 27 | 103 |
| (Opr. K1UD) | | | | | |
| KEY1 | " | 130,005 | 602 | 21 | 86 |
| K1LZ | " | 122,605 | 518 | 23 | 90 |
| KR1G | " | 74,263 | 301 | 22 | 81 |
| W1MK | " | 5,940 | 63 | 16 | 38 |
| AA1BU | 1.8 | 4,042 | 60 | 12 | 31 |
| *WA1S | A | 1,516,347 | 1120 | 114 | 383 |
| *K1VUT | " | 1,241,934 | 1005 | 106 | 355 |
| *K1TVW | " | 1,087,384 | 1019 | 115 | 321 |
| *WS1A | " | 1,012,440 | 890 | 99 | 330 |
| *WT1O | " | 963,500 | 894 | 99 | 311 |
| *N1HQQ | " | 791,895 | 777 | 94 | 299 |
| *K51J | " | 763,389 | 889 | 84 | 279 |
| *N1PGA | " | 755,136 | 754 | 86 | 282 |
| *W1EQD | " | 614,884 | 679 | 83 | 264 |
| *AA1QD | " | 500,410 | 595 | 77 | 230 |
| *K1HT | " | 498,986 | 541 | 86 | 261 |
| *W1NT | " | 489,118 | 629 | 79 | 243 |
| *W1ZZ | " | 461,610 | 494 | 90 | 255 |
| *WA1FCN | " | 457,500 | 610 | 76 | 229 |
| *NM1W | " | 292,050 | 405 | 65 | 210 |
| *K1TW | " | 262,856 | 419 | 62 | 170 |
| *WF1L | " | 230,460 | 400 | 58 | 172 |
| *K1JE | " | 210,220 | 362 | 57 | 173 |
| *WA1T | " | 157,832 | 293 | 64 | 154 |
| *K1OA | " | 147,664 | 306 | 46 | 130 |
| *K1VJS | " | 125,874 | 242 | 52 | 137 |
| *K1DCB | " | 119,966 | 303 | 46 | 108 |
| *KX1X | " | 112,700 | 253 | 46 | 129 |
| *KG1D | " | 107,830 | 225 | 57 | 148 |
| *K1WCC | " | 83,235 | 225 | 40 | 115 |
| *N1DS | " | 54,362 | 201 | 47 | 107 |
| *K1MAC | " | 31,611 | 121 | 39 | 84 |
| *AB1U | " | 17,806 | 111 | 25 | 33 |
| *N1SR | " | 16,235 | 91 | 32 | 53 |
| *K1PLX | " | 15,200 | 76 | 26 | 50 |
| *KA1ZF | " | 12,136 | 71 | 26 | 48 |
| *N1YK | 28 | 127,134 | 382 | 26 | 100 |
| *W3EP/1 | " | 100,125 | 287 | 26 | 99 |
| *W1GOU | " | 23,800 | 130 | 17 | 51 |
| *N1FUS | " | 20,100 | 110 | 20 | 47 |
| *WG1Z | 7 | 8,480 | 65 | 15 | 38 |

| | | | | | |
|-------------|-----|-----------|------|-----|-----|
| N7UN/2 | " | 1,006,824 | 875 | 114 | 347 |
| N2MR | " | 899,101 | 816 | 101 | 312 |
| WA2NHA | " | 818,125 | 849 | 86 | 299 |
| N2WK | " | 775,719 | 727 | 113 | 328 |
| N2CU | " | 643,440 | 711 | 77 | 259 |
| K2WK | " | 593,205 | 643 | 103 | 252 |
| K2OY | " | 500,180 | 527 | 106 | 250 |
| K2FR | " | 395,296 | 535 | 65 | 211 |
| W2UDT | " | 307,468 | 457 | 71 | 207 |
| W2LU | " | 306,504 | 382 | 89 | 208 |
| WA2CNV | " | 287,330 | 437 | 76 | 219 |
| WR2V | " | 279,112 | 397 | 70 | 208 |
| N2UM | " | 255,774 | 403 | 82 | 200 |
| K2AW | " | 229,596 | 368 | 56 | 172 |
| W2OMV | " | 222,443 | 363 | 61 | 180 |
| NC1A/2 | " | 174,476 | 324 | 53 | 159 |
| KE2WY | " | 169,260 | 291 | 63 | 147 |
| K2NV | " | 162,140 | 300 | 56 | 164 |
| KU2X | " | 154,912 | 312 | 54 | 152 |
| K2SZ | " | 153,440 | 257 | 62 | 162 |
| WA2WPL | " | 136,427 | 207 | 73 | 154 |
| W2OP | " | 118,371 | 257 | 63 | 148 |
| W2HCA | " | 113,022 | 236 | 53 | 129 |
| AE2T | " | 107,439 | 228 | 52 | 125 |
| WF2Y | " | 106,506 | 213 | 53 | 130 |
| W2ZU | " | 80,227 | 190 | 45 | 112 |
| N2OO | " | 54,000 | 131 | 52 | 92 |
| W2YBJ | " | 34,440 | 116 | 43 | 77 |
| K2SKO | " | 31,702 | 159 | 35 | 86 |
| N2KI | " | 25,235 | 131 | 33 | 70 |
| W2EZ | " | 1,914 | 24 | 13 | 20 |
| N2LEB | " | 868 | 16 | 15 | 16 |
| N2BA | 28 | 303,246 | 772 | 30 | 123 |
| K2EEK | " | 53,724 | 193 | 24 | 87 |
| WB2ELW | " | 17,043 | 120 | 18 | 51 |
| (Opr. K2CF) | | | | | |
| KA2VVO | " | 360 | 17 | 7 | 13 |
| WA2QNW | 21 | 339,200 | 773 | 32 | 128 |
| WB2YQH | " | 127,788 | 372 | 29 | 109 |
| KA2JEM | " | 62,010 | 245 | 25 | 81 |
| K2MGA | 14 | 154,100 | 462 | 31 | 103 |
| K2JLA | " | 43,927 | 175 | 26 | 83 |
| K2WE | 7 | 63,162 | 208 | 27 | 90 |
| K2OB | " | 16,632 | 93 | 17 | 60 |
| KM2P | 3.7 | 150,150 | 627 | 21 | 89 |
| W2V0 | 1.8 | 6,096 | 68 | 15 | 33 |
| *NA2U | A | 1,288,518 | 1065 | 109 | 353 |
| *K2UF | " | 536,860 | 580 | 83 | 257 |
| *K2CS | " | 393,329 | 536 | 79 | 210 |
| *W2TZ | " | 254,400 | 407 | 68 | 197 |
| *KM2L | " | 189,390 | 335 | 64 | 150 |
| *W2SSB | " | 172,788 | 286 | 59 | 179 |
| *W2MKW | " | 121,338 | 237 | 58 | 131 |
| *N2NYR | " | 99,876 | 213 | 50 | 124 |
| *K2CTA | " | 82,992 | 200 | 45 | 111 |
| *N2OK | " | 59,920 | 172 | 43 | 97 |
| *W2YK | " | 55,068 | 163 | 47 | 109 |
| *W2CWW | " | 52,380 | 147 | 38 | 97 |
| *WF2B | " | 51,042 | 158 | 46 | 95 |
| *W3EH/2 | " | 50,625 | 153 | 41 | 84 |
| *N2LQQ | " | 46,854 | 166 | 46 | 91 |
| *W2FGY | " | 42,978 | 142 | 33 | 81 |
| *K2GKM | " | 42,721 | 134 | 37 | 82 |
| *N2ST | " | 35,280 | 140 | 36 | 84 |
| *K2DL | " | 18,990 | 85 | 30 | 60 |
| *W5K1R | " | 16,770 | 80 | 34 | 52 |
| *N2FR | " | 12,320 | 82 | 20 | 50 |
| *K2GNO | " | 3,036 | 38 | 18 | 26 |
| *W3SXY | " | 2,583 | 32 | 15 | 26 |
| *WA2BJH | " | 1,610 | 29 | 17 | 18 |
| *W2LU | " | 1,150 | 21 | 9 | 14 |
| *N2LDV | " | 620 | 12 | 9 | 11 |
| *WB2KHO | " | 234 | 7 | 6 | 7 |
| *K2MQY | 28 | 144,560 | 394 | 28 | 111 |
| *NA2X | " | 26,828 | 128 | 21 | 55 |
| *N2DEM | " | 22,596 | 126 | 21 | 63 |
| *WA2BKN | " | 17,464 | 109 | 18 | 41 |
| *K2ZNL | " | 3,096 | 41 | 11 | 25 |
| *WB2BWU | " | 14 | 14 | 7 | 7 |
| *K2BQW | 21 | 84,930 | 280 | 23 | 91 |
| *WA2ASQ | 14 | 25,418 | 120 | 20 | 67 |
| *WB2ZTH | 7 | 10,868 | 68 | 16 | 49 |
| K3ZO | A | 3,815,240 | 2331 | 140 | 458 |
| W3BGN | " | 3,401,478 | 2113 | 140 | 466 |
| N3NS | " | 1,198,322 | 962 | 112 | 355 |
| K4JLD/3 | " | 783,874 | 702 | 105 | 308 |
| K3JA | " | 507,338 | 595 | 80 | 258 |
| AJ3M | " | 385,200 | 507 | 88 | 212 |
| N3KR | " | 343,757 | 457 | 75 | 202 |
| *AB1U | " | 330,639 | 413 | 88 | 219 |
| N3RC | " | 294,769 | 459 | 76 | 205 |
| KC3TL | " | 292,934 | 438 | 82 | 216 |
| N3YC | " | 268,710 | 381 | 70 | 195 |
| AD3Z | " | 264,765 | 343 | 75 | 210 |
| W7CAV/3 | " | 251,564 | 388 | 64 | 180 |
| N1SI | " | 235,060 | 376 | 60 | 198 |
| W3RJ | " | 220,215 | 361 | 79 | 186 |
| WF3M | " | 166,200 | 310 | 57 | 143 |
| W3BYX | " | 124,614 | 221 | 56 | 151 |
| N3GBP | " | 121,590 | 279 | 56 | 137 |
| W3TWI | " | 115,434 | 238 | 64 | 134 |
| W3AU | " | 108,675 | 262 | 44 | 117 |
| K3SV | " | 100,858 | 196 | 65 | 146 |
| W3BEN | " | 78,540 | 208 | 55 | 132 |
| W3EVA | " | 54,008 | 235 | 48 | 124 |

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|---------------|-----|-----------|------|-----|-----|
| N3QYE | " | 42,720 | 157 | 39 | 81 |
| W3JRY | " | 17,200 | 76 | 30 | 56 |
| K3MLA | 28 | 55,737 | 215 | 28 | 71 |
| W3KHQ | 21 | 195,534 | 485 | 32 | 121 |
| A130 | " | 146,300 | 378 | 31 | 109 |
| K3MD | " | 122,000 | 419 | 27 | 98 |
| K3CR | 14 | 543,904 | 1188 | 38 | 146 |
| (Opr. WA3HAE) | | | | | |
| KB3AGZ | " | 18,970 | 102 | 17 | 53 |
| *KQ3V | A | 1,195,116 | 916 | 120 | 369 |
| *WV3S | " | 910,610 | 834 | 100 | 310 |
| *W3UJ | "</ | | | | |

| ASIATIC TURKEY | | | |
|----------------|---------|---------|-------------|
| *YM75ROT A | 425,587 | 714 | 52 159 |
| (Opr. TA3BN) | | | |
| *TA8J | 23,970 | 94 | 31 63 |
| *TA3J | 28 | 63,765 | 348 15 50 |
| *TA3D | 21 | 660,136 | 1833 34 118 |
| *YM75TA | 3.7 | 88,200 | 473 11 59 |
| (Opr. TA3J) | | | |

| ASIATIC RUSSIA | | | |
|----------------|-----|-----------|-------------|
| UA9JK | A | 900,694 | 1245 99 252 |
| UA9KM | A | 319,464 | 553 82 179 |
| UA9MR | A | 187,452 | 324 66 180 |
| UA9CK | A | 178,200 | 388 61 159 |
| UA9JDP | A | 170,570 | 512 44 141 |
| RZ9UR | A | 85,904 | 198 59 123 |
| UA9OC | A | 84,744 | 213 67 131 |
| UA9SNQ | A | 42,817 | 263 25 89 |
| UA9OSV | A | 14,256 | 113 23 43 |
| UA9XEN | A | 9,656 | 68 30 41 |
| RX9SX | A | 3,450 | 29 21 29 |
| RW9SW | 28 | 73,332 | 385 26 71 |
| RK9JWV | A | 12,650 | 239 18 32 |
| RA9JP | 21 | 154,500 | 772 30 95 |
| RZ9UA | 14 | 1,211,679 | 2554 40 149 |
| RA9DZ | A | 247,066 | 767 31 100 |
| RX9FG | A | 75,680 | 310 20 68 |
| RA9FEU | A | 4,880 | 53 10 30 |
| *RW9HA | A | 606,698 | 933 82 212 |
| *RW9QA | A | 329,615 | 573 64 197 |
| *RA9AC | A | 226,614 | 481 59 172 |
| *RK9UM | A | 228,690 | 414 85 185 |
| *RN9XA | A | 166,049 | 341 74 167 |
| *RW9RF | A | 94,842 | 275 45 113 |
| *RA9AUH | A | 89,046 | 224 39 114 |
| *RA9UAP | A | 33,172 | 209 22 54 |
| *UA9OJG | A | 18,907 | 170 22 51 |
| *UA9SBC | A | 7,952 | 69 18 38 |
| *RA9FJ | 21 | 45,984 | 212 22 74 |
| *RJ9J | 14 | 377,937 | 1238 33 114 |
| (Opr. RA9JR) | | | |
| *UA9BS | A | 142,440 | 498 29 91 |
| *UA9MAZ | A | 122,879 | 519 31 74 |
| *RZ9CQ | A | 38,304 | 209 17 59 |
| *UA9LJ | 3.7 | 42,930 | 314 16 65 |
| *UA9ACJ | A | 33,600 | 206 12 52 |

| AZERBAIJAN | | | |
|------------|----|-----------|-------------|
| 4J9RI | A | 2,087,072 | 1808 94 322 |
| *4K9V | A | 9,875 | 67 30 49 |
| *4KA6GF | 28 | 60,505 | 305 17 50 |

| CHINA | | | |
|--------|----|--------|-----------|
| *BD4DW | 28 | 99,840 | 502 33 63 |

| CYPRUS | | | |
|---------------|-----|-----------|--------------|
| C4A | A | 9,781,930 | 5105 146 548 |
| (Opr. 5B4ADA) | | | |
| C4W | A | 8,287,995 | 4670 149 524 |
| (Opr. 5B4WN) | | | |
| 5B4AGC | 21 | 1,551,539 | 3095 35 152 |
| 5B4 | A | 250,416 | 933 21 90 |
| *NP3D | 3.7 | 250,416 | 933 21 90 |
| *5B4 | A | 889,956 | 2123 36 141 |
| *EW1AR | 28 | 889,956 | 2123 36 141 |

| GEORGIA | | | |
|---------|-----|---------|-----------|
| *4L1UN | 14 | 67,071 | 299 20 59 |
| *4L50 | 3.7 | 146,316 | 663 15 74 |

| HONG KONG | | | |
|-----------|-----|---------|-------------|
| VR2KF | A | 512,727 | 961 84 193 |
| VR98BG | 21 | 795,511 | 2756 36 113 |
| VR98BG | 1.8 | 0 | 1 1 1 |

| INDIA | | | |
|--------|---|---------|-------------|
| *AT0MB | A | 803,665 | 1069 88 247 |

| ISRAEL | | | |
|----------|----|-----------|-------------|
| 4Z1GY | A | 979,618 | 1200 66 196 |
| 4X40Z | 28 | 1,065,600 | 2933 34 126 |
| 4X6ZK | * | 1,025,024 | 2238 37 145 |
| 4X/OK1TD | 21 | 656,370 | 1431 33 132 |

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|--------------|----|-----------|-------------|
| *4X0F | A | 1,412,545 | 1501 84 271 |
| (Opr. 4Z5FL) | | | |
| *4X0T | * | 974,283 | 1230 58 209 |
| (Opr. 4Z5FI) | | | |
| *4Z5JQ | * | 147,576 | 319 50 122 |
| *4X/TF1MM | * | 58,116 | 231 24 63 |
| *4X1VF | 28 | 904,639 | 2155 33 134 |
| *4X6DK | * | 128,472 | 457 26 75 |
| *4Z5FW | 21 | 75,036 | 500 18 34 |
| *4X1KS | * | 3,984 | 44 14 34 |

| JAPAN | | | |
|---------------|-----|-----------|--------------|
| JM1XCW | A | 1,720,383 | 1919 113 244 |
| JF10PL | A | 722,466 | 864 104 202 |
| JR1LEV | A | 410,080 | 634 82 151 |
| JA1QOW | A | 199,977 | 418 69 122 |
| JA1HP | A | 190,992 | 404 63 121 |
| JA1BPN | A | 75,325 | 219 54 77 |
| JH1CTV | A | 71,071 | 215 51 92 |
| JA1ANA | A | 47,190 | 138 60 70 |
| JA1XPU | A | 13,860 | 82 29 48 |
| JA1KK | A | 12,096 | 76 24 39 |
| *JH1FSF | 28 | 101,230 | 396 33 73 |
| JH1UQT | * | 47,748 | 262 23 46 |
| JH1KOO | * | 27,066 | 143 28 50 |
| JA1IFB | * | 1,368 | 26 9 9 |
| *JH1FX | 21 | 382,181 | 995 37 114 |
| JA1YBK | A | 267,402 | 799 33 90 |
| (Opr. J11WFD) | | | |
| JR1MQT | A | 221,052 | 723 33 76 |
| JK10XU | A | 142,154 | 468 33 80 |
| J11FD | A | 25,365 | 267 29 66 |
| *JL17GE | 14 | 908,144 | 1797 38 145 |
| JA1KAL | A | 9,360 | 83 20 28 |
| JA1RFM | 7 | 68,112 | 330 30 69 |
| *J11ARF | A | 1,238,204 | 1158 131 297 |
| *J11VRO | A | 755,001 | 833 112 239 |
| *7L10U | A | 566,060 | 741 102 208 |
| *JS10YV | A | 505,272 | 706 105 191 |
| *JH10AI | A | 362,600 | 502 99 181 |
| JA1BUI | A | 301,250 | 455 92 158 |
| *7J1ABD | A | 272,835 | 427 84 151 |
| (Opr. WA6URY) | | | |
| *JE1UFF | A | 195,775 | 382 72 119 |
| *JR1MRG | A | 190,890 | 412 66 123 |
| *JG1TVK | A | 175,440 | 307 76 139 |
| *7K4GUR | A | 154,190 | 341 57 113 |
| *JE8KKX/1 | A | 137,412 | 262 76 122 |
| *J11SGU | A | 128,304 | 305 65 111 |
| *JM1NOQ | A | 128,040 | 290 63 102 |
| *JA1AB | A | 75,096 | 228 46 80 |
| *JA1HFY | A | 66,048 | 204 48 81 |
| *JK1ATT | A | 63,024 | 194 59 97 |
| *JA1XUY | A | 59,605 | 183 52 79 |
| *JR3PZV/1 | A | 45,288 | 146 56 92 |
| *JG3NKP/1 | A | 40,020 | 126 44 71 |
| *JH1WOW | A | 36,936 | 150 39 69 |
| *JH1OLB | A | 34,776 | 149 36 56 |
| *JQ1AC | A | 29,859 | 109 46 65 |
| *7K4XVK | A | 18,395 | 109 26 39 |
| *JR1LQK | A | 10,472 | 69 29 39 |
| *7N2JFU | A | 6,744 | 67 15 24 |
| *JH1RHM | A | 3,600 | 36 18 14 |
| *JP1PDD | A | 875 | 15 11 14 |
| *JR1BTZ | 28 | 143,676 | 573 32 66 |
| *JH0ALB/1 | A | 31,725 | 191 29 46 |
| *7N2UQC | A | 22,287 | 148 21 36 |
| *JH1CML | A | 12,810 | 109 24 37 |
| *JH1CEG | A | 11,424 | 90 18 30 |
| *JA1EEL | A | 10,829 | 85 18 31 |
| *JG10WV | A | 10,701 | 96 17 24 |
| *JA1AAT | A | 8,820 | 70 18 27 |
| *JA1XRH | A | 4,960 | 52 16 24 |
| *JE1HXZ | A | 1,890 | 30 8 13 |
| *7K2PBB | A | 722 | 16 7 12 |
| *7M3RMD | A | 431 | 11 7 6 |
| *7K1EQG | A | 377 | 17 6 7 |
| *JL1MWW | 21 | 60,984 | 251 32 68 |
| *JG1JQJ | A | 33,616 | 202 28 60 |
| *7K2GNK | A | 19,803 | 114 20 49 |
| *J11DGP | A | 17,346 | 104 19 40 |
| *JA1ANQ | A | 14,592 | 86 21 43 |
| *JK4DBT | A | 14,400 | 100 18 30 |
| *JH4ARK/1 | A | 14,400 | 100 18 30 |
| *JA1EJD | A | 14,035 | 93 22 36 |
| *JG1GCO | A | 11,060 | 64 24 46 |
| *JA1JLP | A | 9,798 | 71 16 30 |
| *JK1BI | A | 8,918 | 73 18 31 |
| *JL2HUJ/1 | A | 4,216 | 56 13 21 |
| *7M1QVY | A | 3,990 | 44 13 22 |
| *JE1W5C | A | 3,201 | 41 13 20 |
| *JH1KZQ/1 | A | 2,560 | 44 12 15 |
| *7M1TCV | A | 1,053 | 17 9 13 |
| *JQ1AHZ | A | 560 | 17 8 8 |
| *JR1BSV | A | 528 | 13 6 10 |
| *JR4PMX/1 | 14 | 202,340 | 522 36 115 |
| *JA1BPA | A | 22,896 | 122 25 47 |
| *JF1LQQ | A | 11,310 | 81 20 38 |
| *JQ1RGV | A | 8,789 | 73 21 26 |
| *JM3UAO/1 | A | 3,094 | 33 13 21 |
| *JH1TUX | A | 1,197 | 27 10 11 |
| *JQ1TLX | A | 504 | 12 5 9 |
| *JG1FLY | A | 350 | 15 5 9 |
| *JK1LUL | A | 260 | 11 6 7 |
| *JR1MTI | 7 | 99 | 11 2 1 |
| *JH1RDU | A | 18 | 3 1 1 |
| *JE1SPY | 3.7 | 940 | 23 8 12 |

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|-----------|-----|---------|--------------|
| JH2BNN | A | 922,610 | 1186 113 197 |
| JH2AMH | A | 247,520 | 497 80 144 |
| JH2AQI | A | 213,279 | 334 84 169 |
| JH2AFM | A | 179,452 | 338 72 131 |
| JA2QVP | A | 14,857 | 69 33 50 |
| JH2LUN | 28 | 67,200 | 237 37 75 |
| JH2LGN | 21 | 635,400 | 1668 35 115 |
| JA2CWU | A | 6,762 | 55 21 28 |
| *JK2VOC | A | 201,528 | 457 71 145 |
| *JA2OJ | A | 115,624 | 286 51 98 |
| *JA2GHP | A | 83,006 | 276 40 81 |
| *JG2REJ | A | 66,920 | 196 51 89 |
| *JA2BEY | A | 65,018 | 218 42 76 |
| *JG2GNZ | A | 31,108 | 124 42 59 |
| *JH2JUC | A | 21,870 | 100 35 46 |
| *JH2WHS | A | 19,602 | 97 27 54 |
| *JA2BHJ | A | 15,752 | 129 38 50 |
| *JA2BLJ | A | 14,208 | 96 26 48 |
| *JH2TKX | A | 9,024 | 62 28 36 |
| *JA2RFQ | A | 3,240 | 62 21 31 |
| *JH2JER | A | 592 | 15 7 9 |
| *JG2VSF | 28 | 6,380 | 57 16 28 |
| *JR2TRC | A | 2,726 | 34 12 17 |
| *JR2LIS | 21 | 130,080 | 527 29 67 |
| *JA2BQX | A | 15,180 | 133 21 34 |
| *JA2IZA | A | 12,768 | 90 21 35 |
| *JH2JVL | A | 11,025 | 77 32 31 |
| *JA2XOA | A | 3,744 | 51 11 21 |
| *JQ2WIA/2 | A | 18 | 2 1 2 |
| *JQ2CCL | 14 | 1,638 | 26 8 18 |
| *JE2TOT | 3.7 | 1,248 | 24 10 14 |

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|-----------|----|-----------|--------------|
| JS3CTQ | A | 2,211,638 | 2041 122 285 |
| JA3LDH | A | 392,559 | 539 100 191 |
| JR3WXA | A | 281,970 | 445 83 158 |
| JG3WCZ | A | 192,045 | 342 82 135 |
| JR3XEX | A | 110,856 | 280 46 103 |
| JA3ARM | A | 35,143 | 120 44 69 |
| JA3ORD | A | 4,900 | 38 20 29 |
| JH3OFA | 28 | 421,165 | 1228 38 93 |
| JA3ETD | A | 29,416 | 167 25 42 |
| JA3ZDH | 21 | 497,408 | 1460 34 100 |
| JR3CVO | A | 10,537 | 92 19 22 |
| *JH3CUL | A | 354,025 | 535 95 194 |
| *JA3UWB | A | 205,725 | 371 60 135 |
| *JF3PLF/3 | A | 176,595 | 389 62 121 |
| *JH3TXP | A | 33,155 | 127 37 58 |
| *JH3QXW | A | 25,612 | 125 24 52 |
| *JL3IVX | A | 10,500 | 97 31 53 |
| *JE3HHT | A | 7,680 | 59 18 30 |
| *JA3WFK | A | 3,840 | 45 16 24 |
| *JA3AKD | 28 | 7,821 | 84 12 21 |
| *JR3ADB | A | 6,048 | 60 14 28 |
| *JA3IVB | A | 5,625 | 51 16 29 |
| *JH3OZ | A | 3,952 | 42 14 24 |
| *JR3RI | 21 | 311,328 | 846 34 107 |
| *JL3VUL/3 | A | 267,512 | 874 32 87 |
| *JH3DST/3 | A | 208,336 | 662 31 85 |
| *JA3LEZ | A | 78,473 | 297 28 69 |
| *JA3TC | A | 48,459 | 218 26 61 |
| *JA3BGG | A | 27,229 | 142 23 50 |
| *JH3APB | A | 15,512 | 121 20 36 |
| *JH3VY/3 | A | 8,150 | 77 18 32 |
| *JL3RDC | A | 7,904 | 67 18 34 |
| *JA3QCV | A | 6,885 | 59 14 31 |
| *JH3JZ | A | 2,304 | 28 12 20 |
| *JR3KAH | A | 1,416 | 27 7 17 |
| *JH3D5H | 14 | 27,900 | 161 26 49 |
| *JR3EOI/3 | 7 | 8,786 | 79 18 28 |

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|---------------|-----|-----------|--------------|
| JH4ADK | A | 978,193 | 1117 113 234 |
| JA4XRN | A | 296,103 | 402 92 175 |
| JA4DHN | A | 99,007 | 201 58 123 |
| JA4HIX | A | 50,140 | 156 44 71 |
| JH4RHF | 28 | 32,680 | 169 31 55 |
| JL4DJM | A | 24,120 | 142 28 44 |
| JH4JNG | 14 | 387,576 | 839 39 129 |
| *JH4WBY | A | 223,450 | 418 79 126 |
| *JA4BAA | A | 56,135 | 201 37 72 |
| *JA4QR | 28 | 9,504 | 60 24 42 |
| *JA4CTL | A | 3,978 | 78 19 32 |
| *JR4GPA | 21 | 169,165 | 550 32 83 |
| *JK4DBT | A | 40,643 | 184 31 66 |
| *JA4JJI | A | 16,947 | 105 19 44 |
| *JH4GHQ | A | 463 | 11 6 8 |
| *JE4QGF | 14 | 13,475 | 104 20 35 |
| *JM4WUZ | 7 | 27,857 | 151 28 61 |
| *JA4YPE | 3.7 | 90 | 5 5 5 |
| (Opr. JF3EBO) | | | |
| JA5IP | A | 63,736 | 193 47 77 |
| JA5OJV | 21 | 1,007,742 | 2285 37 122 |
| JR5PWV | A | 15,892 | 101 17 41 |
| *JH5OXF | A | 382,830 | 590 83 174 |
| *JASEU | A | 310,662 | 573 67 131 |
| *JASAPU | A | 25,315 | 217 14 25 |
| *JG5VIA | A | 11,130 | 67 26 44 |
| *JF5FGY | 28 | 25,875 | 138 29 46 |
| *JH5MVCV | | | |

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|--------|-----|---------|-----|----|-----|
| EU6TT | 21 | 7,685 | 65 | 17 | 36 |
| EW6TU | 3.7 | 10,980 | 209 | 8 | 37 |
| *EU15A | A | 286,500 | 588 | 76 | 224 |
| *E16DF | 28 | 34,365 | 288 | 19 | 60 |
| *E16GB | 21 | 33,282 | 261 | 15 | 84 |
| *E16NA | A | 30,788 | 173 | 21 | 65 |

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|----------------|----|-----------|------|-----|-----|
| BELGIUM | | | | | |
| OT8T | A | 6,971,449 | 3478 | 163 | 670 |
| (Opr. RA3AUJ) | | | | | |
| ON4XG | | 199,989 | 457 | 53 | 190 |
| ON4DP | 14 | 512,856 | 1772 | 34 | 119 |
| *ON7RN | A | 1,309,902 | 1369 | 106 | 340 |
| *ON4AU | | 56,400 | 246 | 39 | 111 |
| *ON51 | | 51,168 | 212 | 51 | 105 |
| *ON5PJ | | 26,950 | 149 | 30 | 80 |
| *ON5CZ | | 9,291 | 81 | 25 | 32 |
| *ON4LCX | | 5,508 | 60 | 15 | 19 |
| *ON4LDB | | 5,161 | 40 | 15 | 29 |
| *ON4KMB | | 2,001 | 30 | 10 | 19 |

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|---------------------------|-----|-----------|------|-----|-----|
| BOSNIA-HERZEGOVINA | | | | | |
| T94D0 | 28 | 20,485 | 116 | 23 | 62 |
| T97M | 14 | 495,818 | 1674 | 36 | 137 |
| *T99W | A | 1,653,300 | 2212 | 115 | 380 |
| *T94LW | | 244,998 | 688 | 51 | 183 |
| *T99T | 28 | 72,924 | 275 | 23 | 95 |
| *T91ENS | 21 | 167,382 | 559 | 34 | 119 |
| (Opr. T93Y) | | | | | |
| *T92M | | 28,080 | 146 | 22 | 56 |
| *T95A | 7 | 101,505 | 704 | 20 | 81 |
| *T91EXA | 3.7 | 30,485 | 446 | 11 | 56 |

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|-----------------|-----|---------|------|----|-----|
| BULGARIA | | | | | |
| LZ5QZ | A | 589,680 | 1237 | 81 | 270 |
| LZ6A | | 573,699 | 978 | 85 | 292 |
| LZ1B | | 170,872 | 464 | 61 | 187 |
| LZ1BG | | 11,484 | 61 | 33 | 54 |
| LZ3ZZ | 7 | 459,511 | 1979 | 37 | 132 |
| LZ1RN | | 25,056 | 272 | 13 | 59 |
| LZ2FQ | | 4,346 | 90 | 8 | 33 |
| LZ3AB | | 525 | 17 | 8 | 13 |
| *L22NB | A | 259,440 | 504 | 75 | 209 |
| *L22JA | 21 | 121,800 | 398 | 31 | 101 |
| *L21CW | | 99,015 | 428 | 29 | 86 |
| *L21HB | | 48,450 | 266 | 29 | 66 |
| *L21ZC | 14 | 20,276 | 213 | 17 | 57 |
| *L22MP | 3.7 | 9,130 | 160 | 7 | 48 |

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|--------------|---|---------|-----|----|-----|
| CRETE | | | | | |
| *SV0LK | A | 164,565 | 597 | 51 | 156 |

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|----------------|-----|-----------|------|-----|-----|
| CROATIA | | | | | |
| 9A2YC | A | 415,338 | 644 | 94 | 247 |
| 9A4X | 28 | 382,356 | 1187 | 35 | 136 |
| 9A7R | | 290,700 | 984 | 34 | 146 |
| 9A4D | | 182,698 | 505 | 31 | 136 |
| (Opr. 9A2D) | | | | | |
| 9A2AJ | | 150,891 | 510 | 33 | 126 |
| 9A9A | 21 | 1,517,020 | 3139 | 40 | 162 |
| 9A3MR | 14 | 131,709 | 675 | 30 | 99 |
| 9A5Y | 7 | 513,342 | 2063 | 36 | 135 |
| (Opr. 9A7W) | | | | | |
| 9A4KA | | 1,519 | 31 | 9 | 22 |
| 9A4KH | | 1,312 | 41 | 6 | 20 |
| 9A6A | 3.7 | 235,807 | 1620 | 28 | 115 |
| *9A2EU | A | 1,457,708 | 1498 | 123 | 403 |
| *9A5J | | 235,800 | 627 | 55 | 207 |
| *9A6AC | | 133,759 | 515 | 37 | 144 |
| *9A4VV | | 117,609 | 439 | 51 | 148 |
| *9A2KO | | 70,518 | 308 | 41 | 120 |
| *9A3CY | | 19,968 | 139 | 26 | 78 |
| *9A3SM | | 14,847 | 117 | 23 | 78 |
| *9A5Y | 28 | 135,470 | 874 | 31 | 124 |
| (Opr. 9A6KTS) | | | | | |
| *9A5MT | | 5,952 | 54 | 15 | 33 |
| *9A2RD | 21 | 229,067 | 614 | 37 | 114 |
| *9A | | | | | |
| *WA41MC | 14 | 438,501 | 1705 | 36 | 121 |
| *9A4RV | | 43,516 | 314 | 21 | 71 |

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|-----------------------|-----|-----------|------|-----|-----|
| CZECH REPUBLIC | | | | | |
| OK1RI | A | 4,838,015 | 1733 | 145 | 492 |
| OK1EP | | 896,831 | 3207 | 97 | 366 |
| OK1FRO | | 75,888 | 332 | 44 | 142 |
| OK1AVY | | 3,120 | 57 | 19 | 29 |
| OK2BDI | | 1,488 | 23 | 14 | 17 |
| OK1AXB | 28 | 34,430 | 142 | 28 | 82 |
| OK2SAT | 21 | 172,572 | 530 | 31 | 115 |
| OK1ARI | | 104,895 | 322 | 29 | 106 |
| OK1IE | 7 | 34,435 | 206 | 21 | 70 |
| OK2RZ | 3.7 | 220,032 | 1561 | 27 | 101 |
| OK1FC | | 62,084 | 696 | 14 | 65 |
| OK1FPS | | 51,908 | 605 | 12 | 64 |
| OK2CZ | 1.8 | 16,626 | 398 | 6 | 45 |
| OK1PT | | 15,704 | 280 | 8 | 44 |
| *OK1SI | A | 188,738 | 456 | 63 | 190 |
| *OK1KZ | | 143,980 | 448 | 50 | 180 |
| *OK1MKI | | 117,968 | 402 | 44 | 158 |
| *OK1DOL | | 103,124 | 318 | 45 | 158 |
| *OK1DSZ | | 96,965 | 319 | 54 | 161 |
| *OK2TBC | | 90,636 | 282 | 47 | 119 |

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|---------------|-----|---------|-----|----|-----|
| *OL7C | | 86,765 | 352 | 38 | 147 |
| (Opr. OK1FKV) | | | | | |
| *OK2PMS | | 60,261 | 343 | 39 | 120 |
| *OK2BUG | | 47,748 | 223 | 40 | 133 |
| *OK1FRT | | 39,235 | 219 | 31 | 102 |
| *OK2ASW | | 36,375 | 160 | 25 | 100 |
| *OK2PBG | | 34,060 | 177 | 30 | 100 |
| *OK2DU | | 31,330 | 213 | 32 | 98 |
| *OK2BPK | | 7,986 | 43 | 28 | 38 |
| *OK2ZI | 28 | 86,912 | 346 | 28 | 100 |
| *OK2PMM | | 20,448 | 101 | 23 | 49 |
| *OK1CZ | | 4,056 | 45 | 15 | 24 |
| *OK1FKM | 21 | 151,034 | 464 | 32 | 125 |
| *OK2TH | | 18,750 | 100 | 25 | 50 |
| *OK1JLM/P | | 11,368 | 102 | 17 | 39 |
| *OK1IMM | | 100 | 45 | 16 | 25 |
| *OK1DVK | 14 | 1,443 | 30 | 7 | 30 |
| *OK1HRR | 3.7 | 17,741 | 300 | 7 | 53 |
| *OK1HXH | | 3,040 | 90 | 6 | 34 |

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|----------------|-----|-----------|------|----|-----|
| DENMARK | | | | | |
| OZ9Y | A | 1,487,589 | 2117 | 77 | 270 |
| OZ1HXQ | | 1,088,530 | 1513 | 93 | 305 |
| OZ5EV | | 336,114 | 432 | 94 | 332 |
| OZ3SK | 1.8 | 46,368 | 671 | 11 | 61 |
| *OZ1ACB | A | 198,492 | 520 | 68 | 170 |
| *OZ7AEI | | 58,090 | 297 | 33 | 124 |
| *OZ4NA | | 55,714 | 217 | 42 | 136 |
| *OZ5ABD | | 49,296 | 236 | 34 | 122 |
| *OZ1JXV | | 42,912 | 230 | 31 | 118 |
| *OZ7AX | | 38,628 | 157 | 34 | 140 |
| *OZ6OQ | | 36,998 | 145 | 24 | 68 |
| *OZ1IVA | | 9,156 | 105 | 22 | 62 |
| *OZ9HN | 21 | 7,254 | 48 | 31 | 78 |
| *OZ3ZK | 7 | 5,808 | 110 | 6 | 38 |

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|------------------|----|---------|------|----|-----|
| DOCEANESE | | | | | |
| SV5AZP | 21 | 202,264 | 1183 | 30 | 101 |

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|----------------|-----|-----------|------|-----|-----|
| ENGLAND | | | | | |
| G0IVZ | A | 1,717,760 | 1987 | 103 | 337 |
| (Opr. 8P6VC) | | | | | |
| M8X | | 966,672 | 1258 | 99 | 312 |
| G0VSN | | 778,898 | 998 | 81 | 301 |
| G3UFY | | 472,668 | 666 | 81 | 276 |
| G3VAO | | 205,065 | 417 | 64 | 81 |
| G3SEM | 28 | 55,521 | 342 | 22 | 71 |
| G3TRK | 21 | 305,696 | 891 | 36 | 128 |
| G4WTD | | 294,275 | 810 | 33 | 119 |
| G4WSE | | 215,118 | 891 | 33 | 78 |
| G4WPD | 1.8 | 9,774 | 202 | 7 | 47 |
| *G6QK | A | 158,922 | 427 | 57 | 186 |
| *G0MTN | | 76,350 | 228 | 46 | 104 |
| *G0VQR | | 50,028 | 211 | 38 | 94 |
| *G3RSD | | 43,240 | 199 | 29 | 86 |
| *G3JKY | | 33,810 | 220 | 28 | 70 |
| *G4NXG/M | | 20,698 | 101 | 34 | 45 |
| *G4PCI | 28 | 34,788 | 199 | 18 | 60 |
| *G4AXX | 14 | 119,427 | 558 | 27 | 94 |
| *G0MRH | | 14,893 | 202 | 11 | 42 |
| *G3XWZ | 7 | 6,028 | 68 | 8 | 34 |

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|----------------|----|---------|------|----|-----|
| ESTONIA | | | | | |
| ES1RA | A | 60,786 | 175 | 59 | 139 |
| ES1OX | | 37,268 | 118 | 54 | 100 |
| ES1LBR | 28 | 3,942 | 132 | 13 | 41 |
| ES5TV | 14 | 411,879 | 1547 | 37 | 140 |
| *ES4NG | A | 287,124 | 736 | 59 | 225 |
| *ESSRIM | | 22,950 | 174 | 27 | 62 |
| *ES1QD | | 10,925 | 68 | 32 | 63 |
| *ES2NA | 28 | 20,066 | 177 | 18 | 61 |
| *ESTLGM | | 10,887 | 123 | 14 | 43 |
| *ES6RHB | 21 | 11,484 | 73 | 26 | 40 |
| *ESSAAV6 | | 7,854 | 125 | 11 | 31 |
| *ES1RG | | 5,544 | 80 | 10 | 34 |
| *ES2RJ | 14 | 339,328 | 1251 | 39 | 137 |
| *ES4LBO | 7 | 1,716 | 44 | 7 | 26 |

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|------------------------|-----|-----------|------|-----|-----|
| EUROPEAN RUSSIA | | | | | |
| RW4AA | A | 2,778,560 | 2606 | 137 | 471 |
| UA4HTT | A | 1,560,736 | 1719 | 125 | 419 |
| RK4WWA | A | 1,397,447 | 1844 | 116 | 405 |
| UA1OMS | | 813,024 | 1099 | 104 | 328 |
| UA6JY | | 238,928 | 472 | 78 | 196 |
| UA1AJW | | 225,138 | 418 | 77 | 237 |
| RZ3AV | | 154,722 | 472 | 50 | 191 |
| RW4WE | | 114,918 | 358 | 53 | 126 |
| RZ6FB | | 104,901 | 312 | 60 | 159 |
| RV1CC | | 85,306 | 293 | 50 | 143 |
| RA6LJ | | 82,386 | 250 | 55 | 144 |
| RZ1AJ | | 72,468 | 297 | 38 | 145 |
| RX3AW | | 41,615 | 150 | 39 | 106 |
| RN3FA | | 37,808 | 131 | 44 | 92 |
| RV6LOB | | 5,220 | 46 | 18 | 42 |
| RV3YR | | 1,353 | 25 | 14 | 19 |
| RA4CC | 28 | 116,880 | 411 | 28 | 92 |
| RV3LO | | 10,455 | 111 | 14 | 37 |
| UA3XBB | | 4,042 | 62 | 13 | 30 |
| UE6MAA | 21 | 306,046 | 1124 | 38 | 120 |
| RA1ACJ | | 4,074 | 38 | 16 | 26 |
| UA3ABJ | 14 | 149,240 | 747 | 30 | 100 |
| RK4FD | 7 | 89,298 | 547 | 25 | 96 |
| UA1OZ | 3.7 | 17,840 | 315 | 19 | 61 |
| RA3VV | | 8,601 | 185 | 6 | 41 |

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|----------------|-----|---------|------|-----|-----|
| UA4GJ | 1.8 | 4,484 | 113 | 6 | 32 |
| *RX3RC | A | 856,508 | 1079 | 114 | 352 |
| *UA3BL | | 671,150 | 1112 | 103 | 330 |
| *RK3BY | | 428,970 | 683 | 95 | 300 |
| *RV6LFE | | 346,652 | 682 | 78 | 238 |
| *UA4SEW | | 275,931 | 615 | 60 | 219 |
| *RW4PK | | 230,174 | 425 | 78 | 209 |
| *RU3FF | | 198,450 | 455 | 65 | 180 |
| *UA6LHM | | 161,660 | 349 | 67 | 169 |
| *UA3LH | | 130,104 | 423 | 52 | 182 |
| *RA1OJ | | 110,565 | 299 | 55 | 140 |
| *RU4WE | | 84,150 | 334 | 47 | 140 |
| *RA3UAG | | 72,468 | 267 | 50 | 148 |
| *UA4FE | | 66,612 | 254 | 43 | 113 |
| *UA4LBK | | 61,758 | 276 | 33 | 113 |
| *U1BA | | 50,862 | 240 | 38 | 109 |
| *RW1QM/1 | | 44,545 | 228 | 37 | 114 |
| *RX3AEX | | 41,748 | 191 | 45 | 102 |
| *UA1AFZ | | 38,416 | 274 | 19 | 93 |
| *UA0ZDA/6 | | 37,875 | 190 | 27 | 74 |
| *UA1AKE | | 28,428 | 117 | 42 | 96 |
| *UA4HAK | | 16,920 | 111 | 36 | 54 |
| *UA4QK | | 12,212 | 89 | 22 | 50 |
| *UA3DUY | | 1,440 | 25 | 14 | 16 |
| *RK3XWD | 28 | 37,916 | 217 | 21 | 65 |
| (Opr. RX3-548) | | | | | |
| *UA1OMZ | | 3,367 | 46 | 14 | 23 |
| *UA4LCO | 21 | 459,062 | 1447 | 36 | 142 |
| *RU4PL | | 387,855 | 1317 | 36 | 133 |
| *RA3DNC | | 92,837 | 409 | 27 | 100 |
| *UA1ACC | | 50,648 | 273 | 25 | 79 |
| *UA4ACP | | 15,774 | 132 | 18 | 48 |
| *UA1ANA | 14 | 47,200 | 314 | 23 | 77 |
| *RA1AW | | 46,002 | 285 | 26 | 76 |
| *RX1AL | | 37,716 | 323 | 18 | 66 |
| *RA3LJ | | 5,964 | 153 | 8 | 34 |
| *RX3DNK | | 437 | 15 | 7 | 12 |
| *RK1OWZ | 7 | 4,620 | 79 | 9 | 33 |
| *RU3DX | 3.7 | 31,248 | 334 | 14 | 58 |

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|------------------------|---|--------|-----|----|----|
| EUROPEAN TURKEY | | | | | |
| *TA1BM | A | 41,501 | 617 | 29 | 99 |

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|----------------|--|--|--|--|--|
| FINLAND | | | | | |
| OH | | | | | |

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|---------------|------------|----------------|-------------|---------------|
| IU4U | 151,436 | 606 | 33 | 99 |
| IK52TW | 2,550 | 32 | 13 | 17 |
| I137 | 14 | 665,145 | 1862 | 40 155 |
| | | (Opr. IV3YK) | | |
| IK2SAU | 295,350 | 941 | 37 | 142 |
| IK2NCJ/A | 7 | 378,378 | 1296 | 30 117 |
| IQ35 | 1.8 | 28,566 | 525 | 9 60 |
| | | (Opr. ISVXO) | | |
| *IV3UHL | A | 951,684 | 1302 | 100 326 |
| *IV3ARJ | A | 762,174 | 872 | 122 404 |
| *I04I | A | 366,792 | 532 | 94 254 |
| *I/MF5GU | A | 288,708 | 703 | 66 228 |
| *I0QA | A | 247,908 | 455 | 75 217 |
| | | (Opr. IK0XBK) | | |
| *IV3RJT | A | 198,918 | 414 | 67 190 |
| *IK3POG | A | 193,746 | 510 | 72 222 |
| *IK1YLL | A | 171,738 | 359 | 70 191 |
| *I24BOY | A | 171,477 | 425 | 69 192 |
| *IK2RPE | A | 134,915 | 345 | 61 162 |
| *IK1YEE | A | 115,400 | 314 | 54 146 |
| *IK7RVY | A | 85,120 | 268 | 51 109 |
| *I21AWD | A | 79,450 | 237 | 52 123 |
| *IK8IFW | A | 75,848 | 260 | 45 107 |
| *I22ABN | A | 64,428 | 165 | 53 103 |
| *IK2REA | A | 58,580 | 260 | 45 100 |
| *IK1DFH | A | 55,110 | 186 | 50 115 |
| *ER1BF | A | 52,452 | 211 | 37 104 |
| *IK2RPP | A | 49,686 | 180 | 47 100 |
| *IK4WLV | A | 47,334 | 178 | 48 113 |
| *IK5NTJ | A | 47,304 | 187 | 37 109 |
| *IK20LJ | A | 45,920 | 200 | 41 99 |
| *I22WIJ | A | 42,291 | 193 | 32 72 |
| *IK2UVR | A | 42,183 | 194 | 36 93 |
| *I23BQJ | A | 35,268 | 157 | 37 85 |
| *IK0STM | A | 32,562 | 128 | 46 82 |
| *IK7WPD | A | 22,852 | 114 | 34 82 |
| *IK2PTL | A | 22,440 | 175 | 35 75 |
| *IK2FXA | A | 18,483 | 75 | 37 64 |
| *IK2UDV | A | 18,000 | 112 | 23 57 |
| *IK4CBM | A | 17,182 | 140 | 23 48 |
| *IK3SCB | A | 17,082 | 82 | 33 45 |
| *I26LGN | A | 15,857 | 114 | 30 71 |
| *IK8YFU | A | 13,440 | 99 | 26 54 |
| *I2GHH | A | 12,903 | 97 | 22 47 |
| *I27BJT | A | 12,240 | 99 | 24 61 |
| *IK4YMR | A | 10,872 | 62 | 31 41 |
| *IK0JNS | A | 10,498 | 95 | 21 37 |
| *IK7WSE | A | 9,300 | 96 | 24 38 |
| *IK3VKE | A | 8,840 | 75 | 25 43 |
| *IK2VUC | A | 5,661 | 64 | 13 24 |
| *IK1KWC | A | 5,310 | 41 | 25 34 |
| *I23ALU | A | 5,100 | 46 | 22 38 |
| *IK2AIT | A | 4,356 | 39 | 20 24 |
| *I20BXT | A | 3,192 | 42 | 19 37 |
| I08A | 2B | 57,696 | 241 | 27 69 |
| | | (Opr. IZ8BGY) | | |
| *IV3BMV | A | 20,254 | 102 | 25 57 |
| *I27CDB | A | 17,228 | 82 | 22 51 |
| I07A | 14 | 335,916 | 1266 | 38 134 |
| | | (Opr. IK7JIV) | | |
| *I3MLU | A | 137,193 | 590 | 31 108 |
| *I08C | A | 137,085 | 915 | 29 82 |
| | | (Opr. IK8AFN) | | |
| *I4PZP | A | 59,780 | 280 | 29 93 |
| *IR7S | A | 54,900 | 486 | 18 82 |
| | | (Opr. IK7YUA) | | |
| *IK7YTT | A | 50,285 | 325 | 21 92 |
| IK3SSJ | 3.7 | 47,888 | 667 | 13 60 |

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|--------------------|-----|--------------|------|--------|
| KALININGRAD | | | | |
| *UA2FP | A | 180,342 | 583 | 51 207 |
| *UA2CZ | A | 44,950 | 258 | 34 121 |
| LATVIA | | | | |
| YL2KO | A | 923,704 | 1460 | 88 338 |
| YL80MR | A | 157,710 | 582 | 53 157 |
| | | (Opr. YL2MR) | | |
| YL2IP | A | 84,870 | 275 | 47 160 |
| YL2GN | A | 180,600 | 909 | 31 109 |
| YL3IZ | 3.7 | 39,065 | 512 | 12 53 |
| *YL3FW | A | 46,740 | 369 | 21 74 |
| *YL80UZ | 1.8 | 3,531 | 105 | 5 28 |

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|------------------|-----|-----------|------|---------|
| LITHUANIA | | | | |
| LY5W | A | 1,905,260 | 2013 | 136 484 |
| LY2BM | A | 1,374,648 | 2014 | 107 385 |
| LY2BR | A | 810,900 | 1322 | 92 333 |
| LY63BH | A | 447,598 | 863 | 86 240 |
| LY2HN | A | 72,568 | 239 | 46 147 |
| LY2DX | A | 60,702 | 321 | 29 122 |
| LY2GF | 2B | 124,841 | 660 | 28 99 |
| LY2OX | 21 | 208,953 | 869 | 33 114 |
| LY2CU | A | 2,765 | 72 | 9 26 |
| LY3BX | 7 | 112,644 | 985 | 25 83 |
| LY61FW | 3.7 | 90,436 | 998 | 14 78 |
| LY38S | 1.8 | 93,610 | 1222 | 13 61 |
| LY2HM | A | 25,620 | 465 | 9 51 |
| *LY63BA | A | 1,707,480 | 2230 | 111 416 |
| *LY2BTA | A | 1,150,515 | 1727 | 115 440 |
| *LY2FN | A | 319,708 | 731 | 69 242 |
| *LY2EA | A | 145,418 | 400 | 52 169 |
| *LY2PBM | A | 78,218 | 406 | 33 118 |
| *LY3BCY | A | 15,194 | 147 | 17 54 |
| *LY2HC | A | 9,100 | 151 | 14 51 |
| *LY62TZ | A | 4,422 | 73 | 17 49 |
| *LY3NQN | 2B | 576 | 31 | 6 18 |
| *LY20U | 3.7 | 10,653 | 179 | 6 47 |

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|-------------------|-----|--------------|------|--------|
| LUXEMBOURG | | | | |
| LY1SP | A | 704,242 | 956 | 97 328 |
| LX2SM | 21 | 155,840 | 457 | 34 126 |
| LX1RQ | 14 | 131,138 | 571 | 29 90 |
| *LX1JH | A | 116,298 | 356 | 53 160 |
| MACEDONIA | | | | |
| Z37FA | A | 525 | 11 | 11 10 |
| Z32KV | 28 | 481 | 37 | 6 7 |
| *Z31GB | 28 | 27,322 | 162 | 25 67 |
| *Z31GX | 21 | 539,766 | 1786 | 35 122 |
| *Z39Z | 14 | 414,711 | 1695 | 38 139 |
| | | (Opr. Z32AM) | | |
| *Z31JA | " | 378,184 | 1597 | 39 125 |
| *Z31RU | 3.7 | 32,528 | 535 | 14 62 |

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|----------------|-----|--------------|------|--------|
| MALTA | | | | |
| 9H0A | 28 | 892,515 | 2073 | 37 158 |
| *9H1DE | A | 226,416 | 587 | 56 156 |
| MOLDOVA | | | | |
| ER7N | 28 | 99,201 | 451 | 29 100 |
| | | (Opr. UT7ND) | | |
| *ER5DX | A | 118,932 | 376 | 59 145 |
| *ER1BF | A | 44,400 | 278 | 33 115 |
| *ER3DW | 14 | 139,842 | 868 | 24 78 |
| *ER3HW | 1.8 | 9 | 183 | 7 37 |

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|--------------------|-----|---------|------|--------|
| NETHERLANDS | | | | |
| PA0AGA | A | 554,803 | 1093 | 80 273 |
| PA0IJM | A | 404,773 | 1020 | 71 240 |
| PA0KHS | A | 358,832 | 805 | 68 260 |
| *PA3GCV | A | 534,674 | 850 | 87 275 |
| *PA3GLD | A | 288,000 | 607 | 63 193 |
| *PA0RBS | A | 118,770 | 414 | 46 168 |
| *PA3GKE | A | 55,242 | 251 | 39 123 |
| *PA0KDM | A | 33,540 | 192 | 37 119 |
| *PA3GZC | A | 18,894 | 150 | 30 64 |
| *PA0JNH | A | 17,696 | 158 | 35 77 |
| *PA3EMN | 21 | 62,376 | 330 | 26 87 |
| *PA0MIR | A | 31,620 | 165 | 20 65 |
| *PA2SWL | 3.7 | 24,676 | 368 | 8 54 |

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|-------------------------|----|-----------|------|---------|
| NORTHERN IRELAND | | | | |
| GI0KOW | A | 7,388,788 | 5268 | 143 539 |
| *GI0KVQ | A | 340,624 | 757 | 55 189 |
| *GI4MWA | 21 | 14,257 | 119 | 13 40 |
| *GI0OUM | A | 9,648 | 103 | 12 36 |

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|---------------|------------|----------------|------------|---------------|
| NORWAY | | | | |
| LA6TP | A | 45,892 | 217 | 37 112 |
| LA2MJA | 28 | 14,484 | 110 | 15 53 |
| LA9DA | 114 | 115,231 | 639 | 26 102 |
| LA2IR | A | 61,285 | 328 | 23 80 |
| *LA6WEA | 1.8 | 13,572 | 209 | 8 50 |
| *LA2HFA | A | 91,238 | 372 | 41 158 |
| *LA2EIA | A | 57,744 | 321 | 32 112 |
| *LA2EL | A | 51,348 | 237 | 35 97 |
| *LA2FL | A | 39,932 | 248 | 31 118 |
| *LA2FA | A | 28,222 | 173 | 33 70 |
| *LA1PHA | A | 1,296 | 30 | 12 24 |
| *LA9AIA | A | 8,670 | 90 | 13 38 |
| *LA3JT | 21 | 8,670 | 90 | 13 38 |

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|----------------|-----------|------------------|-------------|---------------|
| POLAND | | | | |
| SP9QMP | A | 666,111 | 1182 | 83 270 |
| SP6AZT | A | 566,406 | 935 | 105 354 |
| SP3JHY | A | 232,686 | 410 | 66 212 |
| SP20XR | A | 85,050 | 243 | 54 132 |
| SP20KJ | A | 57,155 | 250 | 39 125 |
| SP9HZW | A | 47,880 | 144 | 44 89 |
| SP4Z | A | 45,904 | 135 | 62 90 |
| SP6AOI/P | A | 32,319 | 121 | 43 90 |
| SP3HUU | A | 31,605 | 95 | 49 80 |
| SP9VUM | A | 25,950 | 144 | 52 98 |
| SP9LDI | A | 6,815 | 183 | 6 23 |
| SP7VC/7 | 28 | 132,351 | 403 | 33 124 |
| SP5CPR | A | 120,984 | 474 | 30 112 |
| SP2QVI | A | 99,150 | 424 | 31 119 |
| SP8FHK | A | 88,734 | 364 | 30 108 |
| SP5DDJ | A | 86,450 | 353 | 32 101 |
| SP6GF | A | 32,922 | 135 | 26 67 |
| SP5GRM | 21 | 782,585 | 1843 | 38 165 |
| SP3SLA | A | 330,564 | 959 | 32 124 |
| SP5LKM | A | 97,966 | 370 | 33 113 |
| SP5BB | A | 82,088 | 317 | 26 98 |
| SP6FJ | A | 11,700 | 65 | 25 50 |
| SP9ZBC/P | A | 7,067 | 98 | 15 22 |
| | | (Opr. SO9DJ) | | |
| SP3MPC | A | 3,478 | 37 | 13 24 |
| SN2B | 14 | 1,016,784 | 2693 | 40 167 |
| | | (Opr. SP2FAX) | | |
| SP2UUU | A | 90 | 6 | 3 6 |
| SP7GIC | 3.7 | 147,599 | 1233 | 21 82 |
| SP4SAF | 1.8 | 1,206 | 54 | 3 20 |
| SP9VRY | A | 918 | 33 | 6 21 |
| *SP9XWO | A | 388,935 | 724 | 75 260 |
| *SPTA | " | 121,800 | 344 | 55 148 |
| | | (Opr. SP7FOI) | | |
| *SP5MXA | A | 100,061 | 327 | 47 132 |
| *SO5AAS | A | 86,515 | 307 | 38 105 |
| *SP1DPA | A | 77,644 | 196 | 57 131 |
| *SQ1BVG | A | 65,852 | 398 | 55 108 |
| *SP6QJE | A | 64,386 | 298 | 38 109 |

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|---------|-----|---------------|-----|--------|
| *SQ5EWG | A | 62,100 | 262 | 46 134 |
| *SP4MPA | A | 51,516 | 284 | 34 128 |
| *SP9XUE | A | 42,117 | 197 | 34 105 |
| *SP3NUN | A | 41,448 | 199 | 43 144 |
| *SO9DXN | A | 38,171 | 123 | 47 86 |
| *SQ9BVD | A | 17,160 | 115 | 33 71 |
| *SP7EJX | A | 13,300 | 98 | 23 53 |
| *SP6CXH | A | 9,177 | 73 | 22 47 |
| *SP9KJU | A | 4,715 | 67 | 25 37 |
| | | (Opr. SP9MDY) | | |
| *SP6BEN | A | 3,780 | 36 | 19 23 |
| *SP3EJL | A | 3,534 | 48 | 20 37 |
| *SP7LHX | A | 2,288 | 24 | 9 19 |
| *SP4CGJ | A | 1,804 | 44 | 25 16 |
| *SQ4CTM | A | 1,034 | 29 | 20 27 |
| *SP3LWP | 28 | 37,300 | 776 | 25 75 |
| *SP9RVD | A | 23,654 | 130 | 23 61 |
| *SP5LCC | A | 20,559 | 122 | 21 56 |
| *SP9KGG | A | 14,074 | 130 | 22 40 |
| *SQ8BGN | A | 13,530 | 115 | 15 51 |
| *SP4NKJ | A | 6,050 | 59 | 16 39 |
| *SP1E0I | A | 1,950 | 26 | 10 15 |
| *SP60JG | A | 1,378 | 53 | 11 15 |
| *SP9PTG | A | 1,300 | 29 | 10 15 |
| *SP9XCN | 21 | 215,600 | 623 | 34 120 |
| *SP8NJC | A | 130,077 | 404 | 30 119 |
| *SP61XU | A | 26,400 | 155 | 22 53 |
| *SP90YK | A | 25,308 | 190 | 19 57 |
| *SP2AHD | A | 23,821 | 128 | 18 65 |
| *SP9HOC | A | 18,648 | 120 | 18 54 |
| *SP3GTS | 14 | 67,952 | 267 | 28 96 |
| *SP6PAX | A | 28,224 | 111 | 8 28 |
| *SP2GNB | A | 5,529 | 80 | 10 44 |
| *SQ2CFJ | A | 3,420 | 81 | 7 29 |
| *SP9NKL | 7 | 36,354 | 360 | 17 66 |
| *SP9ABU | A | 23,177 | 220 | 14 63 |
| *SP6BBE | 3.7 | 42 | 7 | 1 5 |
| *SP9RPW | 1.8 | 6,168 | 157 | 6 37 |

| | | | | |
|-----------------|-----------|----------------|-------------|---------------|
| PORTUGAL | | | | |
| CT1FUE | A | 72,846 | 302 | 33 81 |
| CT1ERK | A | 14,196 | 72 | 34 50 |
| CT1AH | 28 | 874,665 | 2046 | 32 133 |
| CT1AHU | A | 408,192 | 1279 | 28 100 |
| CT1ZGN | A | 45,627 | 258 | 21 46 |
| CT1HA | A | 37,584 | 361 | 19 35 |
| CT1CIR | A | 6,923 | 57 | 10 28 |
| CT1T | 21 | 583,142 | 1759 | 35 126 |
| CT1AOZ | 14 | 352,000 | 1299 | 35 141 |
| CT1BNW | A | 101,178 | 400 | 30 96 |
| CT1CLR | A | 52,740 | 332 | 20 74 |
| *CT7GTP | A | 188,031 | 391 | 59 174 |
| *CT1 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--------|-----------|------|----|--------|-------|--------|-----|----|-------|-----------|-----------|-----------|------|-------|---------|-----|----|-----|--------|----|---------|-----|----|-----|
| CX7CC | 54,390 | 219 | 54 | 93 | EA28TO | 8,721 | 82 | 13 | 38 | NN3Q | 1,990,856 | 1266 | 126 | 458 | KK0DX | 118,352 | 231 | 75 | 133 | DL80H | 28 | 156,600 | 440 | 34 | 146 |
| CX6VM | 735 | 15 | 11 | 10 | J06PAQ | 5,203 | 57 | 15 | 28 | N3MKZ | 1,981,968 | 1209 | 133 | 495 | KI0LO | 115,206 | 243 | 67 | 115 | DL3ARK | 21 | 25,564 | 154 | 21 | 56 |
| CX8CP | 28 | 1,513,691 | 3893 | 32 | DL1DOY | 782 | 20 | 8 | 15 | K3ND | 1,822,824 | 1158 | 133 | 449 | KN0L | 28,749 | 110 | 40 | 71 | DL3NC1 | 21 | 222,332 | 642 | 36 | 127 |
| CX5X | | 1,451,680 | 2989 | 33 | NAUEK | 117 | 6 | 4 | 5 | AA3JU | 1,341,886 | 1106 | 115 | 396 | | | | | | | | | | | |
| | | | | | RK4SWF | 14 | 56,810 | 286 | 27 | 88 | N3ZTA | 1,298,313 | 886 | 125 | 418 | | | | | | | | | | |
| | | | | | | | | | | | KB3TS | 1,160,280 | 922 | 112 | 383 | | | | | | | | | | |
| | | | | | | | | | | | K3AR | 1,133,640 | 771 | 123 | 413 | | | | | | | | | | |
| | | | | | | | | | | | W3CC | 976,212 | 735 | 110 | 414 | | | | | | | | | | |
| | | | | | | | | | | | K3CP | 860,626 | 774 | 96 | 323 | | | | | | | | | | |
| | | | | | | | | | | | K3EVN | 824,208 | 743 | 110 | 352 | | | | | | | | | | |
| | | | | | | | | | | | W3IZ | 749,904 | 769 | 99 | 309 | | | | | | | | | | |
| | | | | | | | | | | | N3II | 618,192 | 559 | 108 | 316 | | | | | | | | | | |
| | | | | | | | | | | | W3OV | 594,440 | 607 | 97 | 288 | | | | | | | | | | |
| | | | | | | | | | | | KB3AUG | 586,749 | 563 | 94 | 299 | | | | | | | | | | |
| | | | | | | | | | | | W3HVQ | 575,230 | 592 | 108 | 302 | | | | | | | | | | |
| | | | | | | | | | | | K3BSA | 546,820 | 598 | 87 | 283 | | | | | | | | | | |
| | | | | | | | | | | | KU3X | 512,694 | 586 | 82 | 231 | | | | | | | | | | |
| | | | | | | | | | | | K3KFD | 487,944 | 598 | 81 | 243 | | | | | | | | | | |
| | | | | | | | | | | | K3KNH | 429,975 | 510 | 81 | 270 | | | | | | | | | | |
| | | | | | | | | | | | K3IXD | 357,884 | 421 | 82 | 241 | | | | | | | | | | |
| | | | | | | | | | | | N3NT | 319,800 | 432 | 87 | 225 | | | | | | | | | | |
| | | | | | | | | | | | W3KV | 288,768 | 408 | 65 | 191 | | | | | | | | | | |
| | | | | | | | | | | | N3GPU | 239,280 | 394 | 63 | 177 | | | | | | | | | | |
| | | | | | | | | | | | KF3BE | 172,140 | 319 | 60 | 168 | | | | | | | | | | |
| | | | | | | | | | | | N3QQ | 114,240 | 247 | 57 | 135 | | | | | | | | | | |
| | | | | | | | | | | | AA3XL | 82,824 | 195 | 60 | 108 | | | | | | | | | | |
| | | | | | | | | | | | NE3H | 53,784 | 170 | 51 | 115 | | | | | | | | | | |
| | | | | | | | | | | | W8FJ/3 | 49,248 | 142 | 44 | 100 | | | | | | | | | | |
| | | | | | | | | | | | K03F | 49,206 | 130 | 49 | 90 | | | | | | | | | | |
| | | | | | | | | | | | K3TG | 22,092 | 96 | 27 | 57 | | | | | | | | | | |
| | | | | | | | | | | | N3RS | 28 | 469,030 | 1002 | 33 | 145 | | | | | | | | | |
| | | | | | | | | | | | N3RD | 21 | 994,850 | 1900 | 37 | 160 | | | | | | | | | |
| | | | | | | | | | | | WR3L | | 120,060 | 321 | 32 | 113 | | | | | | | | | |
| | | | | | | | | | | | K4MA | A | 2,454,293 | 1435 | 153 | 508 | | | | | | | | | |
| | | | | | | | | | | | N4ZC | " | 2,245,884 | 1350 | 153 | 480 | | | | | | | | | |
| | | | | | | | | | | | N2QT/4 | " | 2,016,152 | 1276 | 136 | 468 | | | | | | | | | |
| | | | | | | | | | | | AA4R | 1,479,345 | 951 | 141 | 438 | | | | | | | | | | |
| | | | | | | | | | | | N4PQX | 896,564 | 644 | 128 | 396 | | | | | | | | | | |
| | | | | | | | | | | | K04QM | 748,572 | 695 | 107 | 321 | | | | | | | | | | |
| | | | | | | | | | | | W4FDA | 545,592 | 565 | 101 | 280 | | | | | | | | | | |
| | | | | | | | | | | | N7AD | 310,992 | 407 | 84 | 220 | | | | | | | | | | |
| | | | | | | | | | | | N4DW | 282,012 | 401 | 78 | 206 | | | | | | | | | | |
| | | | | | | | | | | | K4PFF | 262,361 | 375 | 62 | 191 | | | | | | | | | | |
| | | | | | | | | | | | W4WNT | 156,978 | 276 | 72 | 171 | | | | | | | | | | |
| | | | | | | | | | | | K4SO | 135,420 | 236 | 56 | 166 | | | | | | | | | | |
| | | | | | | | | | | | W4UFO | 121,878 | 209 | 71 | 151 | | | | | | | | | | |
| | | | | | | | | | | | KB4WPL | 104,940 | 180 | 73 | 139 | | | | | | | | | | |
| | | | | | | | | | | | K2SD/4 | 32,868 | 111 | 46 | 86 | | | | | | | | | | |
| | | | | | | | | | | | N4XMX | 10,336 | 52 | 30 | 46 | | | | | | | | | | |
| | | | | | | | | | | | KR4XM | 8,700 | 50 | 21 | 39 | | | | | | | | | | |
| | | | | | | | | | | | W4PJV | 7,452 | 51 | 28 | 41 | | | | | | | | | | |
| | | | | | | | | | | | K04MR | 28 | 62,436 | 178 | 30 | 99 | | | | | | | | | |
| | | | | | | | | | | | KF4YU | 5,670 | 50 | 16 | 26 | | | | | | | | | | |
| | | | | | | | | | | | N4GU | 21 | 154,080 | 423 | 32 | 112 | | | | | | | | | |
| | | | | | | | | | | | K4DN | 7 | 51,920 | 177 | 30 | 88 | | | | | | | | | |
| | | | | | | | | | | | KD4RH | | 44,940 | 173 | 26 | 81 | | | | | | | | | |
| | | | | | | | | | | | N5JR | A | 1,700,015 | 1209 | 127 | 388 | | | | | | | | | |
| | | | | | | | | | | | K5NA | " | 1,601,726 | 1048 | 150 | 449 | | | | | | | | | |
| | | | | | | | | | | | N5TW | " | 1,130,652 | 873 | 137 | 376 | | | | | | | | | |
| | | | | | | | | | | | N5KB | 468,138 | 555 | 101 | 245 | | | | | | | | | | |
| | | | | | | | | | | | K2FF/5 | 190,314 | 289 | 93 | 198 | | | | | | | | | | |
| | | | | | | | | | | | K2SE | 125,550 | 266 | 76 | 149 | | | | | | | | | | |
| | | | | | | | | | | | K5AM | 119,244 | 236 | 79 | 149 | | | | | | | | | | |
| | | | | | | | | | | | K4NR/5 | 94,200 | 189 | 67 | 133 | | | | | | | | | | |
| | | | | | | | | | | | WM9M/5 | 38,760 | 148 | 25 | 77 | | | | | | | | | | |
| | | | | | | | | | | | KM5FA | 28 | 151,765 | 583 | 29 | 98 | | | | | | | | | |
| | | | | | | | | | | | AA5XE | 21 | 189,483 | 456 | 30 | 117 | | | | | | | | | |
| | | | | | | | | | | | NT5C | 7 | 38,383 | 108 | 31 | 100 | | | | | | | | | |
| | | | | | | | | | | | K6AC | A | 178,220 | 277 | 84 | 184 | | | | | | | | | |
| | | | | | | | | | | | NK6A | 68,880 | 208 | 38 | 85 | | | | | | | | | | |
| | | | | | | | | | | | K6JG | 55,279 | 140 | 51 | 98 | | | | | | | | | | |
| | | | | | | | | | | | N6EE | 39,646 | 171 | 24 | 62 | | | | | | | | | | |
| | | | | | | | | | | | W6ISQ | 38,745 | 92 | 46 | 89 | | | | | | | | | | |
| | | | | | | | | | | | N6ND | 28 | 325,666 | 926 | 32 | 99 | | | | | | | | | |
| | | | | | | | | | | | W7OM | A | 815,121 | 881 | 112 | 257 | | | | | | | | | |
| | | | | | | | | | | | K7ABV | " | 370,872 | 451 | 96 | 207 | | | | | | | | | |
| | | | | | | | | | | | W7NN | 317,512 | 416 | 90 | 194 | | | | | | | | | | |
| | | | | | | | | | | | W7CT | 162,131 | 305 | 70 | 127 | | | | | | | | | | |
| | | | | | | | | | | | W07T | 20,737 | 233 | 34 | 55 | | | | | | | | | | |
| | | | | | | | | | | | K8E1/7 | 9,882 | 65 | 34 | 47 | | | | | | | | | | |
| | | | | | | | | | | | KD7CPO | 4,773 | 53 | 14 | 23 | | | | | | | | | | |
| | | | | | | | | | | | K7WP | 28 | 40,677 | 171 | 26 | 65 | | | | | | | | | |
| | | | | | | | | | | | W7VV | 14 | 144,354 | 355 | 36 | 111 | | | | | | | | | |
| | | | | | | | | | | | N8TR | A | 1,756,340 | 1008 | 155 | 530 | | | | | | | | | |
| | | | | | | | | | | | N8RF | " | 1,039,008 | 842 | 112 | 362 | | | | | | | | | |
| | | | | | | | | | | | W28A | 295,902 | 446 | 84 | 222 | | | | | | | | | | |
| | | | | | | | | | | | N8VB | 257,920 | 455 | 85 | 225 | | | | | | | | | | |
| | | | | | | | | | | | K8PBT | 144,560 | 290 | 58 | 150 | | | | | | | | | | |
| | | | | | | | | | | | W88H | 45,120 | 150 | 51 | 90 | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------|------|-----|-----|-----------------------------------|------------|------|-----|-----|------------------------|-----------|------|-----|-----|------------------------|------------|------|-----|-----|------------------|------------|------|-----|-----|
| WV1M | 1,273,972 | 972 | 125 | 401 | VA3SK | 2,759,746 | 2704 | 123 | 394 | KAZAKHSTAN | | | | | GERMANY | | | | | EA5YJ | 938,320 | 1266 | 92 | 278 |
| W1W | 1,167,018 | 819 | 125 | 426 | VE2CS | 2,463,537 | 2864 | 95 | 294 | UP0L | 5,397,449 | 3602 | 140 | 489 | DF0HQ | 6,554,754 | 4059 | 162 | 679 | EA5FKX | 933,852 | 1311 | 84 | 270 |
| W1HR | 971,280 | 842 | 111 | 345 | VE5SF | 2,036,156 | 3259 | 100 | 232 | | | | | | DH0DX | 4,003,623 | 2976 | 137 | 604 | ED2WW | 861,515 | 1211 | 80 | 244 |
| N1TB | 858,855 | 726 | 106 | 359 | VE6FI | 1,991,592 | 2372 | 119 | 298 | OMAN | | | | | DF3CB | 3,983,100 | 2636 | 149 | 632 | EA3RKG | 852,098 | 1297 | 92 | 246 |
| N1AU | 819,123 | 750 | 94 | 317 | VE6AO | 740,925 | 1369 | 92 | 175 | A45ZN | 3,928,842 | 3091 | 110 | 391 | DL0AO | 1,958,672 | 1819 | 133 | 513 | ED1US | 545,920 | 760 | 75 | 245 |
| N1SP | 637,884 | 618 | 82 | 295 | VO2CQ | 474,726 | 802 | 72 | 195 | | | | | | DF0AT | 1,920,116 | 1677 | 120 | 458 | ED2RC | 371,023 | 685 | 74 | 237 |
| N1AO | 526,125 | 677 | 85 | 260 | VE2CQW | 286,230 | 824 | 60 | 150 | SAUDI ARABIA | | | | | DF0HTE | 1,579,388 | 1673 | 114 | 428 | ED2BB | 357,053 | 749 | 72 | 205 |
| WO1N | 383,940 | 478 | 79 | 237 | VE3DC | 159,960 | 427 | 68 | 147 | HZ1AB | 1,368,062 | 1352 | 92 | 305 | DL2DBH | 2,123,114 | 1478 | 106 | 405 | EA4TD | 68,040 | 318 | 60 | 156 |
| N1SOH | 339,167 | 491 | 69 | 212 | VE3MIS | 133,480 | 334 | 51 | 137 | | | | | | DK4QT | 913,965 | 1026 | 114 | 431 | | | | | |
| N1IA | 179,850 | 313 | 57 | 161 | VE9WH | 23,226 | 117 | 37 | 61 | SINGAPORE | | | | | DK6QW | 689,896 | 1166 | 85 | 247 | SWEDEN | | | | |
| KC1AL | 6,018 | 59 | 20 | 31 | | | | | | 9V1YC | 3,723,002 | 3716 | 123 | 393 | DF4SA | 369,952 | 653 | 89 | 263 | SK6AW | 356,400 | 700 | 72 | 258 |
| | | | | | COSTA RICA | | | | | H50AC | 852,398 | 1671 | 100 | 258 | DK0PI | 293,410 | 820 | 58 | 247 | SK6DG | 295,928 | 772 | 63 | 221 |
| N2NU | 6,702,771 | 3007 | 168 | 671 | TI5WFM | 4,642,632 | 4964 | 111 | 297 | THAILAND | | | | | DL0TS | 146,985 | 613 | 45 | 160 | SM4VPZ | 228,179 | 624 | 51 | 208 |
| K2NG | 3,929,130 | 2064 | 155 | 590 | | | | | | | | | | | DL9LR | 72,000 | 314 | 36 | 124 | SK7BQ | 87,360 | 368 | 45 | 150 |
| K2TR | 3,777,430 | 2123 | 158 | 599 | CUBA | | | | | HUNGARY | | | | | DN1MA | 34,568 | 139 | 47 | 102 | | | | | |
| K2KV | 2,825,452 | 1729 | 142 | 516 | CO2BCC | 486,342 | 1860 | 29 | 94 | HG1S | 8,234,800 | 5964 | 168 | 697 | | | | | | | | | | |
| W6XR/2 | 1,997,775 | 1412 | 139 | 446 | | | | | | HA3KNA | 2,041,848 | 2248 | 118 | 434 | ICELAND | | | | | | | | | |
| N2ZX | 1,802,112 | 1226 | 138 | 470 | DOMINICAN REPUBLIC | | | | | | | | | | TF3IRA | 138,336 | 720 | 31 | 101 | ITALY | | | | |
| K2XR | 1,635,760 | 1421 | 128 | 432 | H18/DK8YY | 7,673,120 | 6921 | 124 | 396 | 4U1ITU | 4,932,739 | 4354 | 143 | 564 | IR4T | 10,063,075 | 5048 | 178 | 747 | IR4T | 10,063,075 | 5048 | 178 | 747 |
| AB2DE | 932,176 | 735 | 110 | 354 | H13/ON4ANT | 1,519,872 | 3171 | 78 | 178 | 4U1VIC | 2,127,962 | 2976 | 119 | 432 | IR1A | 3,548,691 | 2695 | 141 | 540 | IR1A | 3,548,691 | 2695 | 141 | 540 |
| K2OWE | 901,461 | 792 | 107 | 356 | GUADELOUPE | | | | | OE5T | 1,564,959 | 1794 | 107 | 410 | IO2A | 3,467,484 | 2716 | 144 | 588 | IO2A | 3,467,484 | 2716 | 144 | 588 |
| N2LBR | 806,256 | 766 | 91 | 305 | FG5BG | 12,042,342 | 8214 | 146 | 543 | OE3I | 895,788 | 1105 | 113 | 388 | IO2L | 1,325,505 | 1452 | 108 | 377 | IO2L | 1,325,505 | 1452 | 108 | 377 |
| W2LC | 803,110 | 787 | 98 | 287 | GUANTANAMO BAY | | | | | CU2V | 6,346,475 | 5944 | 108 | 367 | IR3P | 1,252,410 | 1230 | 123 | 422 | IR3P | 1,252,410 | 1230 | 123 | 422 |
| KG2BN | 469,478 | 673 | 95 | 287 | FM5BH | 8,752,416 | 5827 | 147 | 545 | OE8T | 1,564,959 | 1794 | 107 | 410 | IK4QJM | 472,656 | 749 | 84 | 260 | IK4QJM | 472,656 | 749 | 84 | 260 |
| AE2F | 240,864 | 323 | 89 | 223 | TO8B | 3,588,981 | 4735 | 88 | 275 | CU2V | 6,346,475 | 5944 | 108 | 367 | IV3RAV | 140,420 | 325 | 69 | 167 | IV3RAV | 140,420 | 325 | 69 | 167 |
| KF2XK | 219,045 | 395 | 72 | 183 | MARTINIQUE | | | | | LY2OM | 131,000 | 343 | 62 | 136 | IZ3ALM | 28,800 | 182 | 43 | 107 | IZ3ALM | 28,800 | 182 | 43 | 107 |
| W2SEX | 154,124 | 288 | 60 | 152 | 3E1DX | 6,438,663 | 6214 | 128 | 361 | AUSTRIA | | | | | LATVIA | | | | | | | | | |
| W2CXM | 137,546 | 273 | 54 | 140 | PANAMA | | | | | OE5T | 1,564,959 | 1794 | 107 | 410 | YL8M | 3,069,020 | 3195 | 150 | 542 | LITHUANIA | | | | |
| KG2FH | 101,024 | 225 | 51 | 113 | WP3A | 5,324,500 | 5408 | 127 | 373 | OE3I | 895,788 | 1105 | 113 | 388 | LYK4ZLE | 2,077,506 | 2902 | 122 | 425 | LYK4ZLE | 2,077,506 | 2902 | 122 | 425 |
| | | | | | PUERTO RICO | | | | | CU2V | 6,346,475 | 5944 | 108 | 367 | LY3AV | 1,157,820 | 1714 | 102 | 358 | LY3AV | 1,157,820 | 1714 | 102 | 358 |
| K3TUP | 3,202,710 | 1787 | 156 | 551 | VP5DX | 7,455,210 | 5511 | 146 | 509 | AZORES | | | | | LY3MV | 570,240 | 1136 | 80 | 304 | LY3MV | 570,240 | 1136 | 80 | 304 |
| N3DL | 3,057,690 | 1855 | 147 | 534 | TURKS & CAICOS ISLANDS | | | | | LZ9A | 4,935,801 | 3932 | 157 | 584 | LY3MV | 107,694 | 434 | 45 | 141 | LY3MV | 107,694 | 434 | 45 | 141 |
| K300 | 2,564,349 | 1620 | 133 | 458 | VP5DX | 7,455,210 | 5511 | 146 | 509 | LZ1KSN | 227,702 | 644 | 66 | 191 | CROATIA | | | | | | | | | |
| W3GNQ | 2,239,808 | 1489 | 139 | 493 | U.S. VIRGIN ISLANDS | | | | | 9A7A | 5,938,326 | 3839 | 159 | 635 | 9A7A | 5,938,326 | 3839 | 159 | 635 | | | | | |
| W3MF | 1,950,282 | 1285 | 125 | 457 | WP2Z | 7,662,924 | 5951 | 130 | 473 | 9A9D | 1,832,379 | 2192 | 115 | 412 | 9A9D | 1,832,379 | 2192 | 115 | 412 | | | | | |
| NE3F | 1,929,870 | 1349 | 139 | 476 | NP2B | 4,731,949 | 5237 | 108 | 323 | 9A2L | 1,407,150 | 1518 | 120 | 411 | 9A2L | 1,407,150 | 1518 | 120 | 411 | | | | | |
| N1WR/3 | 1,223,600 | 992 | 112 | 363 | MARTINIQUE | | | | | 9A5D | 1,053,828 | 2007 | 94 | 307 | 9A5D | 1,053,828 | 2007 | 94 | 307 | | | | | |
| K1DDW/3 | 1,077,949 | 926 | 129 | 392 | 3E1DX | 6,438,663 | 6214 | 128 | 361 | 9A7P | 765,400 | 1180 | 91 | 339 | 9A7P | 765,400 | 1180 | 91 | 339 | | | | | |
| W3DXR | 813,510 | 802 | 102 | 291 | AFRICA | | | | | CZECH REPUBLIC | | | | | OK5W | 6,670,332 | 4150 | 167 | 667 | OK5W | 6,670,332 | 4150 | 167 | 667 |
| K4ISV | 4,928,232 | 2645 | 174 | 597 | CANARY ISLANDS | | | | | OK5W | 6,670,332 | 4150 | 167 | 667 | OK5W | 6,670,332 | 4150 | 167 | 667 | | | | | |
| N4TO | 4,775,592 | 2470 | 165 | 607 | EA8ZS | 9,313,670 | 5157 | 138 | 532 | OL5T | 3,050,432 | 2633 | 135 | 569 | OL5T | 3,050,432 | 2633 | 135 | 569 | | | | | |
| N4RV | 2,612,586 | 1462 | 147 | 526 | EA8NL | 1,152,823 | 1337 | 81 | 262 | OL5Q | 1,335,600 | 2035 | 100 | 324 | OL5Q | 1,335,600 | 2035 | 100 | 324 | | | | | |
| N8PR/4 | 2,026,934 | 1564 | 145 | 457 | GAMBIA | | | | | OK2KDS | 727,590 | 999 | 91 | 304 | OK2KDS | 727,590 | 999 | 91 | 304 | | | | | |
| W4NC | 1,724,752 | 1213 | 135 | 443 | C56T | 19,118,437 | 8602 | 162 | 631 | OL2A | 709,716 | 1111 | 102 | 324 | OL2A | 709,716 | 1111 | 102 | 324 | | | | | |
| K1T0/A | 1,161,594 | 1005 | 111 | 330 | MADEIRA ISLANDS | | | | | OK2KOD | 692,012 | 963 | 106 | 346 | OK2KOD | 692,012 | 963 | 106 | 346 | | | | | |
| K4VUD | 867,792 | 983 | 116 | 288 | C09K | 8,351,488 | 5653 | 141 | 505 | OK1KUO | 434,232 | 771 | 68 | 265 | OK1KUO | 434,232 | 771 | 68 | 265 | | | | | |
| W4CAT | 766,938 | 767 | 122 | 316 | ASIA | | | | | OL6A | 356,536 | 625 | 75 | 253 | OL6A | 356,536 | 625 | 75 | 253 | | | | | |
| K4RC | 492,385 | 616 | 92 | 263 | ARMENIA | | | | | OK1KCF | 63,175 | 265 | 40 | 135 | OK1KCF | 63,175 | 265 | 40 | 135 | | | | | |
| K4KDJ | 244,035 | 372 | 69 | 186 | EK8WV | 276,816 | 665 | 36 | 110 | ESTONIA | | | | | OK1KCF | 63,175 | 265 | 40 | 135 | OK1KCF | 63,175 | 265 | 40 | 135 |
| W4SAR | 158,184 | 322 | 66 | 168 | ASIATIC RUSSIA | | | | | OZ7HAM | 727,610 | 1714 | 75 | 302 | OZ7HAM | 727,610 | 1714 | 75 | 302 | | | | | |
| W2D0/4 | 97,745 | 243 | 58 | 115 | RK9CWW | 5,264,325 | 3102 | 149 | 526 | OZ7HWI | 144,160 | 454 | 58 | 207 | OZ7HWI | 144,160 | 454 | 58 | 207 | | | | | |
| | | | | | R29AZA | 4,461,414 | 2948 | 129 | 484 | ENGLAND | | | | | ENGLAND | | | | | | | | | |
| K5MR | 4,443,810 | 2483 | 175 | 560 | RK9CZO | 1,187,736 | 1281 | 87 | 276 | M8P | 3,877,740 | 2698 | 133 | 535 | M8P | 3,877,740 | 2698 | 133 | 535 | | | | | |
| NA5B | 2,047,200 | 1914 | 134 | 446 | RK9SXB | 802,572 | 1021 | 68 | 214 | G8Q | 895,455 | 1525 | 91 | 314 | G8Q | 895,455 | 1525 | 91 | 314 | | | | | |
| N5HRG | 1,547,232 | 1086 | 146 | 422 | R29AZN | 735,376 | 1039 | 73 | 255 | G8B | 653,616 | 1021 | 89 | 319 | G8B | 653,616 | 1021 | 89 | 319 | | | | | |
| AA5NT | 1,379,460 | 1083 | 136 | 362 | RK9SWF | 600,160 | 708 | 90 | 262 | G8Y | 344,520 | 653 | 67 | 230 | G8Y | 344,520 | 653 | 67 | 230 | | | | | |
| K5MDX | 1,197,324 | 997 | 124 | 350 | RK9AWN | 388,890 | 589 | 73 | 217 | M8G | 268,926 | 627 | 64 | 202 | M8G | 268,926 | 627 | 64 | 202 | | | | | |
| K5GN | 725,908 | 850 | 103 | 243 | CHINA | | | | | M8S | 165,636 | 488 | 50 | 164 | M8S | 165,636 | 488 | 50 | 164 | | | | | |
| N5CMI | 519,305 | 698 | 98 | 269 | B4R | 1,345,283 | 2560 | 108 | 245 | ESTONIA | | | | | ESTONIA | | | | | | | | | |
| NJ5S | 270,630 | 426 | 80 | 199 | BY2HIT | 238,587 | 946 | 74 | 127 | ESSQ | 3,540,765 | 3214 | 147 | 538 | ESSQ | 3,540,765 | 3214 | 147 | 538 | | | | | |
| N5WNL | 200,420 | 351 | 72 | 148 | BY2JCY | 39,185 | 322 | 34 | 51 | EUROPEAN RUSSIA | | | | | EUROPEAN RUSSIA | | | | | | | | | |
| KG60K | 2,002,572 | 1693 | 135 | 333 | INDIA | | | | | RM6A | 5,774,440 | 4122 | 164 | 656 | RM6A | 5,774,440 | 4122 | 164 | 656 | | | | | |
| W6EEN | 1,851,656 | 1619 | 137 | 335 | VU2JNA | | | | | | | | | | | | | | | | | | | |

| | | | | |
|--------|-----------|------|-----|-----|
| K1RX | 6,492,362 | 3324 | 164 | 633 |
| N6AW | 6,308,100 | 3702 | 166 | 486 |
| KV1W | 5,625,042 | 3085 | 152 | 581 |
| K3II | 4,944,000 | 2555 | 156 | 594 |
| W7RM | 4,766,768 | 3320 | 162 | 442 |
| K3ANS | 4,152,995 | 2313 | 163 | 574 |
| N98TU | 3,576,591 | 3625 | 161 | 516 |
| K2RD/I | 3,521,259 | 2001 | 146 | 505 |
| W3MM | 2,797,508 | 1524 | 150 | 536 |
| KB1H | 2,725,056 | 1593 | 144 | 520 |
| N2MM | 2,619,540 | 1609 | 137 | 493 |
| W8ZA | 2,205,000 | 1502 | 137 | 463 |
| W2XT | 2,162,741 | 1422 | 135 | 472 |
| AA10N | 2,139,375 | 1628 | 125 | 400 |
| N5YV | 2,087,372 | 1956 | 132 | 376 |
| W1YK | 1,885,845 | 1430 | 117 | 392 |
| KF9YT | 1,651,552 | 1371 | 125 | 386 |
| AD1T | 1,439,532 | 1176 | 112 | 374 |
| W1QK | 1,371,762 | 1080 | 113 | 400 |
| K3DI | 1,226,491 | 874 | 129 | 452 |
| K6SG | 1,141,975 | 1043 | 123 | 302 |
| KD2KS | 1,085,248 | 887 | 115 | 381 |
| W1WFZ | 695,460 | 689 | 99 | 303 |
| K0UE | 366,270 | 530 | 88 | 202 |
| AF4EP | 250,260 | 464 | 85 | 206 |
| W6FSJ | 158,782 | 362 | 75 | 122 |
| N1KWJ | 56,550 | 163 | 42 | 103 |

TURKS & CAICOS ISLANDS

| | | | | |
|------|------------|------|-----|-----|
| VP5T | 12,930,489 | 9893 | 130 | 461 |
|------|------------|------|-----|-----|

AFRICA
AFRICAN ITALY

| | | | | |
|------|------------|-------|-----|-----|
| IH9P | 26,830,830 | 10878 | 175 | 715 |
|------|------------|-------|-----|-----|

CEUTA & MELILLA

| | | | | |
|-------|------------|-------|-----|-----|
| EA9EA | 32,346,460 | 12662 | 183 | 731 |
|-------|------------|-------|-----|-----|

ASIA

CHINA

| | | | | |
|-----|------------|------|-----|-----|
| B1A | 10,143,924 | 8739 | 159 | 454 |
|-----|------------|------|-----|-----|

CYPRUS

| | | | | |
|-----|------------|-------|-----|-----|
| P3A | 29,108,800 | 13073 | 182 | 738 |
|-----|------------|-------|-----|-----|

JAPAN

| | | | | |
|--------|------------|------|-----|-----|
| JA5BJC | 11,949,168 | 6394 | 171 | 561 |
| JA1YXP | 7,447,465 | 4504 | 168 | 485 |
| JA4EKO | 7,059,610 | 4136 | 171 | 514 |
| JA6ZPR | 4,152,384 | 2880 | 148 | 386 |
| JA1YPA | 2,021,208 | 1926 | 132 | 292 |
| JR7ZIT | 182,025 | 408 | 75 | 150 |
| JN1YUU | 17,168 | 103 | 28 | 46 |

MACAO

| | | | | |
|------|------------|------|-----|-----|
| XX9X | 10,890,408 | 8767 | 169 | 485 |
|------|------------|------|-----|-----|

MALDIVE ISLANDS

| | | | | |
|-------|-----------|------|-----|-----|
| 8Q7IO | 3,679,669 | 2981 | 126 | 421 |
|-------|-----------|------|-----|-----|

TAIWAN

| | | | | |
|------|-----------|------|-----|-----|
| BW0R | 1,987,270 | 3222 | 115 | 255 |
|------|-----------|------|-----|-----|

THAILAND

| | | | | |
|--------|---------|-----|----|-----|
| E22AAA | 339,184 | 756 | 75 | 157 |
| E22AAD | 105,938 | 469 | 63 | 98 |

EUROPE

BELGIUM

| | | | | |
|------|------------|------|-----|-----|
| OT8A | 15,288,750 | 9898 | 167 | 739 |
|------|------------|------|-----|-----|

BULGARIA

| | | | | |
|------|-----------|------|-----|-----|
| LZ5Z | 3,982,471 | 3922 | 154 | 585 |
|------|-----------|------|-----|-----|

CZECH REPUBLIC

| | | | | |
|--------|-----------|------|-----|-----|
| OL7W | 1,041,084 | 1624 | 106 | 378 |
| OK1KIR | 500,364 | 958 | 83 | 286 |

ENGLAND

| | | | | |
|-----|------------|------|-----|-----|
| M8T | 16,183,028 | 9315 | 174 | 803 |
|-----|------------|------|-----|-----|

EUROPEAN RUSSIA

| | | | | |
|------|-----------|------|-----|-----|
| RN3D | 6,503,924 | 5585 | 170 | 656 |
|------|-----------|------|-----|-----|

FINLAND

| | | | | |
|-------|------------|------|-----|-----|
| OH2HE | 10,157,670 | 6859 | 174 | 744 |
|-------|------------|------|-----|-----|

FRANCE

| | | | | |
|--------|---------|-----|----|-----|
| TM2LEA | 459,756 | 931 | 78 | 246 |
|--------|---------|-----|----|-----|

GERMANY

| | | | | |
|-------|-----------|------|-----|-----|
| DL0CS | 7,914,186 | 5869 | 165 | 717 |
| DK5EZ | 1,236,222 | 1192 | 117 | 470 |

HUNGARY

| | | | | |
|------|------------|------|-----|-----|
| HG6Y | 10,154,965 | 7382 | 161 | 692 |
|------|------------|------|-----|-----|

ITALY

| | | | | |
|------|---------|-----|----|-----|
| I12P | 135,837 | 272 | 66 | 177 |
|------|---------|-----|----|-----|

KALININGRAD

| | | | | |
|------|------------|------|-----|-----|
| RW2F | 11,212,410 | 7861 | 179 | 736 |
|------|------------|------|-----|-----|

LIECHTENSTEIN

| | | | | |
|---------|-----------|------|-----|-----|
| HB0 | 5,735,374 | 5768 | 116 | 498 |
| /HB9AON | 5,735,374 | 5768 | 116 | 498 |

LITHUANIA

| | | | | |
|------|-----------|------|-----|-----|
| LY5A | 6,856,200 | 5210 | 163 | 517 |
| LY7A | 4,558,840 | 4957 | 146 | 569 |

NETHERLANDS

| | | | | |
|--------|-----------|------|-----|-----|
| PI4COM | 5,926,272 | 5023 | 150 | 586 |
|--------|-----------|------|-----|-----|

NORWAY

| | | | | |
|------|---------|------|----|-----|
| LA1K | 646,404 | 1736 | 68 | 286 |
|------|---------|------|----|-----|

POLAND

| | | | | |
|--------|---------|------|----|-----|
| SP5ZCC | 767,260 | 1186 | 97 | 357 |
|--------|---------|------|----|-----|

SPAIN

| | | | | |
|--------|-----------|------|-----|-----|
| EA3CCN | 4,841,322 | 3966 | 138 | 504 |
| ED7VG | 1,849,404 | 2795 | 98 | 360 |
| ED4RAX | 691,775 | 1243 | 73 | 262 |

SWEDEN

| | | | | |
|-------|---------|------|----|-----|
| SK6NP | 796,272 | 1729 | 83 | 341 |
|-------|---------|------|----|-----|

YUGOSLAVIA

| | | | | |
|------|---------|-----|----|-----|
| YZ7W | 257,544 | 740 | 72 | 222 |
|------|---------|-----|----|-----|

OCEANIA

BELAU

| | | | | |
|------|------------|------|-----|-----|
| T88X | 11,387,229 | 8208 | 145 | 356 |
|------|------------|------|-----|-----|

GUAM

| | | | | |
|------|------------|-------|-----|-----|
| AH2R | 22,519,530 | 10643 | 184 | 590 |
|------|------------|-------|-----|-----|

HAWAII

| | | | | |
|------|------------|-------|-----|-----|
| KH7R | 26,436,483 | 13468 | 185 | 524 |
|------|------------|-------|-----|-----|

INDONESIA

| | | | | |
|--------|---------|-----|----|-----|
| YB3ZES | 476,740 | 931 | 64 | 156 |
|--------|---------|-----|----|-----|

NEW ZEALAND

| | | | | |
|------|-----------|------|-----|-----|
| ZM2K | 8,535,360 | 6284 | 132 | 378 |
|------|-----------|------|-----|-----|

PHILIPPINES

| | | | | |
|--------|-----------|------|----|-----|
| DX1DBT | 1,050,008 | 1704 | 80 | 161 |
| DX3T | 160,644 | 320 | 38 | 94 |

SOUTH AMERICA

ARGENTINA

| | | | | |
|-------|------------|------|-----|-----|
| LU4FM | 11,039,024 | 8117 | 152 | 440 |
|-------|------------|------|-----|-----|

BRAZIL

| | | | | |
|--------|---------|-----|----|-----|
| PY3MHZ | 648,536 | 990 | 81 | 178 |
|--------|---------|-----|----|-----|

NETHERLANDS ANTILLES

| | | | | |
|------|------------|-------|-----|-----|
| PJ9B | 53,994,248 | 19323 | 189 | 823 |
|------|------------|-------|-----|-----|

CHECK LOGS

Our thanks to the following stations who sent in check logs:

3A2MG, 4Z5GV, 9G5BQ, CT2GVG, DF2KK, DJ3VC, DL1ARD, DL1ARK, DL1DWT, DL1HSR, DL1JMS, DL2RTL, DL3NEO, DL5NA, DL6MDG, DL8KWA, EA1BD, EA1CZF, EA1EBJ, EA1FAE, EA2BAP, EA3ALD, EA3ALV, EA3BJM, EA3CIS, EA3FLR, EA4AFI, EA4CEN, EA4EER, EA4FW, EA5AOM, EA5AQP, EA5JK, EA5SM, EA8AOD, EA8BRW, EA8IC, EC7AMQ, ER1IM, EW3LB, EW8DA, F6CXJ, K0MLH, K3SWZ, K6FM, K0DAX, KC5YEE, KX7J, LA1FW, LA2XIA, LA4OGA, LA4XFA, LA5YV, LA7FJA, LA9LO, LA9NM, LU5IBL, LW7E6G, LY3GJ, LZ2SX, LZ4UU, OH3TY, OH6ZH, OK1ARI, OK1IWI, OK2KOS, OK2KRT, OK2XA, OM3EA, PA0FV, PA0UJC, PA0UV, PA3EXI, PT2TF, PU2VJ, PU2YCR, PY2DBU, PY2DJN, PY5IP, RA0JCY, RA4CEW, RN3AM, RW9SG, RX9FB, RZ1AR, SM0BFJ, SM0BXT, SM0LZT, SM5CVC, SM6BSK, SP1GZT, SP2DWA, SP2HMT, SP2MEF, SP2SCX/9, SP3BLT, SP3SLD, SP3VAU, SP3WBQ, SP4TKR, SP4X, SP5CEO, SP5EWH, SP5OJX, SP5SSB, SP5YIQ (Opr. SP5DIQ), SP6GES, SP6CYX, SP6IEQ, SP6NVK, SP6VGB/9 (Opr. SQ9CAQ), SP7GAQ, SP8EJX, SP8FHM, SP8OQB, SP8WJD, SP8WJO, SP9AVZ, SP9CCA, SP9MQH, SP9OYT, SQ8AMD, UA0JD, UA0UAG, UA1AQF, UA3AGS, UA3DEA, UA9CES, UA9XK, UN9PQ, UR5FF, UR5UAC, UT5UOC, VE7PXE/W8, VU2FOT, W7CAV/3, W8TPO, WB4HUX, Y02BEH, Y02KJW, Y08AI, Y08ATT, Y09BGV.



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Tampa, FL 1-800-387-8570




VX-5R
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1.2GHz



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Hi-Power
Dualband



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HF SSB or FM



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