



Chris, 9Y4D, placed third in the world on 14 MHz.



Stig, HS0ZGD, placed second in the world low power 14 MHz.



Joe, AA3B, took fifth place Assisted in the U.S.

Results of the 2008 CQ WW DX SSB Contest

BY BOB COX,* K3EST

The 2008 CQ WW DX SSB Contest occurred with the solar flux about as low as it can get. Conditions were predicted to be a challenge. To alleviate months of flat solar flux, the suggested solution was "Enter the CQ WW SSB Contest and help cure band conditions." Once again, the CQ WW made its own propagation. As K0IP said, "Wow! Zero sunspots, what a contest." As has been mentioned before, the CQ WW is a fantastic competition which brings out the best in amateur radio: team work, station construction, antenna design, propagation knowledge, and operating skills. Just turn on your radio and you can join in the fun. Once you listen to the bands during the CQ WW, you will be hooked. You can be guaranteed to have a good time.

With solar conditions on the decline, contestants of all ages from every corner of the world turned on their radios and were surprised when the bands sprung to life. The CQ WW is a celebration of ham radio skill and effort. Thousands of hams throughout the world received their first ham radio thrill in the CQ WW. New hams and old who try the CQ WW become addicted. GM2T's comments sum up the wonderful challenge the CQ WW brings to new and experienced operators: "We had three new license holders who had never ever taken part in any contest in their lives before. One of the Foundation license holders, MM3ZTP, age 14 years, took to it like a duck to water and was soon running pile-ups like a seasoned professional. This is what it is all about, seeing the young ones really enjoying the fun. The other two new hams after being initially overawed soon got themselves into the swing of operating, great to see."

After all the logs were counted, an amazing number emerged: 5021 received entries. Below are presented the results of the efforts of the entrants. If you want to know how long it is until the 2009 CQ WW SSB test check out the website of OT5A: <<http://www.on7lr.org>>. Read on to see how you and your friends ended up. Everyone who operated the 2008 CQ WW was a winner.

High Power

The top spot in this difficult category went to an operator familiar with winning the CQ WW. Rich, N6KT, put his considerable skill to work talking HC8A to the world high score. HC8A sits on the side of a dormant volcano on San Cristobal Island, and Rich took full advantage of the location and propagation to find the path to top honors. Second place world and the top European score for several years running was Toni, OH2UA, operating from CU2X. Third place went to several-time world winner Tom, W2SC, operating 8P5A from beautiful Barbados. Taking second place in Europe and sixth in the world was Tonno operating from his super station, ES5TV. From Crete, Ben, DL6FBL, took his host's station, SV9CVY, to third place in Europe and seventh in the world. In the U.S., the competition from the northeast was fierce. Randy, K5ZD, did his usual fabulous job and took top honors! What a great operator and score. Krassy, K1LZ, put his considerable skills to work and took U.S. second place. Doug, K1DG, took third place from his Maine island QTH. Other worthy efforts from propagationally challenged areas which should be mentioned were those of DU9DG, VK4CZ, K7RL, N6TJ, KH6LC (N6GQ), and BA4RF.

The continental winners were: North America: 8P5A (W2SC); Africa: 6W1RY (F5VHJ); Asia: 5B4AII (RW3QC); Europe:



Special event station EE9E.

CU2X (OH2UA); Oceania: 9M8Z (9M6DXX); South America: HC8A (N6KT); Japan: JH4UYB; U.S.: K5ZD/1.

Low Power

The low power category means a transceiver and an antenna. Many people have a transceiver running 100 watts, and anyone can enter the low power category. This means that this category has the most entrants of any CQ WW category. It is a challenge to end up on the top scores list.

John, KK9A, operating as P40A, continues to take home the world high trophy. Operating from beautiful Aruba, John again took away top world low power trophy. Four years in a row is quite an achievement, John! Second place went to Ted, HI3TEJ, using his contest call, HI3T. Third place in the world was KP4KE operated by Barney, DK8ZB. CT8K operated by José, CT1CJJ took first place in Europe. This is the fourth year in a row that José took the plaque. Congratulations, José! Second place Europe went to low power champion Zlatko, 9A2EU. Taking Europe third place was Lorenzo, IZ2FOS, operating from northern

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Italy. In the U.S., we had a repeat winner from 2007, Art, K1BX. Great operating, Art! Second place went to Ed, N1UR, who finishes on or near the top almost every time. Third place U.S. went to Terry, N4TZ/9, from Indiana. SU1KM (N5ZO), 5Z4/RW1AU, V51YJ, ST2NH, BD1ND, AU2RSB, OD5NJ, 7Z1SJ, HS0ZHC, UK8AKK, YB1TJ, and DV1JM all had excellent scores from interesting locations.

The continental winners were: North America: HI3T (HI3TEJ); Africa: SU1KM (N5ZO); Asia: HS0ZHC; Europe: CT8K (CT1CJJ); Oceania: DV1JM; South America: P40A (KK9A); Japan: JA7LMZ; U.S.: K1BX.

QRP

The CQ WW offers a contester a very good opportunity to work rare DX which would otherwise prove elusive. The QRP category sharpens you searching skills and the rewards are very satisfying. You can work a lot of stations with 5 watts or less.

Our world winner was Remi, LY8O. He traveled 100 km to his contest station to get away from line noise. Looks like it paid off, Remi. Long-time QRPer, Doug, KR2Q, took second place world and first place U.S. from northern New Jersey. Third place world and number two Europe was Gerard, F5BEG. Second in the U.S., and repeating as the top score west of New Jersey, was Philip, N0KE. He also finished #9 in the world. Another dedicated QRPer took third place in the U.S., Randy, ND0C. Third place in Europe went to Milan, OK2BYW. Special mention must be made of the fine score of Izuno-san, JR4DAH, #7 in the world and #1 in Asia. The top zone 3 score was submitted by NN7SS (K6UFO), followed closely by Bill, W8QZA, operating W6QU. JA2DLM, JA2MWV, YB2OK, VK4ATH, and PY2BN are to be congratulated for their outstanding efforts.

The continental winners were: North America: KR2Q; Africa: no entry; Asia: JR4DAH; Europe: LY8O; Oceania: YB2OK; South America: PY2BN; Japan: JR4DAH; U.S.: KR2Q.

Assisted

Use of a QSO spotting tool places you in the assisted category. The top assisted score in the world went to Philippe, LX7I. Philippe said: "Thanks for all who called me. Before the contest I never had imagined to make this great score." Dreams do come true! Second place world and number one in the U.S. was Dick, NN3W, who asks the questions on all our minds: "Good opening for me on 15 meters. 10 meters, where art thou?" Third place world went to ZX2B, the contest call of PY2MNL. Second place in Europe went to Salvatore, IK8UND, who put TK9R in a lot of logs. Third place in Europe went to Alex, YO9HP, operating his contest call, YR9P. Second place in the U.S. was taken by assisted category aficionado Charles, K3WW. Third place in the U.S. went to Jerry, WB9Z, in Illinois. The efforts of BA7NQ, UP2L, KG6DX, ZM1K (VK2IA), and T8IC (JK2VOC) made everyone happy.

The continental winners were: North America: NN3W; Africa: EC8AFM; Asia: RO9O (RZ9OO); Europe: LX7I; Oceania: KG6DX; South America: ZX2B (PY2MNL); Japan: JQ1BVI; U.S.: NN3W.

Multi-Single

The multi-single category is very competitive. The category attracts the second largest number of participants in the contest. Getting together with new and old friends for a weekend of never-ending QSOs is what multi-single is all about.

The top three winners from 2007 juggled places in the 2008 competition. Taking first place for two years in a row was the multi-national team of CN3A. What a great job they did. Moving up to second place in the world was P33W. A team from the Radio Amateur Club of Kourou, operating as FY5YE on the French Guyana coast, came in third. Multi-single is very competitive within Europe. Doing a fine job and taking the top position was radio club F6KHM using their club call, TM6M. Second place went to the Romagna Contest Team, IR4M. Third place in Europe went to the Salgotrjani Varosi Radio Klub, HG6N. Not enough can be said about the great effort and win in the U.S. by N0NI. The team from Iowa took advantage of the rare propagational opportunity to beat all the East Coast stations and lead the pack from the Midwest. Ray's team at K9RS/3 took second place from eastern Pennsylvania. Third place went to Tom, K8AZ, located in the countryside of northeastern Ohio. W7VJ took top honors from the U.S. West Coast. Outstanding performances were turned in by many teams. Some of the rarer ones appearing in many logs were: 3DA0DJ, XU7MDY, AH2R, VU4MY, VU7SJ,

T32CXX, 9V1YC, A73A, B7P, 9K2HN, HS0AC, and VU2PAI.

The continental winners were: North America: VP5DX; Africa: CN3A; Asia: P33W; Europe: TM6M; Oceania: AH2R; South America: FY5KE; Japan: JA6ZPR; U.S.: N0NI.

Multi-Two

The multi-two category needs two stations manned nearly all the time and stations have to move skillfully as the propagation changes. Doing this smoothly takes a skilled crew. Reprising their win from 2007 was AO8A. The international group finished #1 in the world from the western Canary Islands. Taking second place in the world was 6Y1V. KY1V was joined by "Young Ham Contest Program Winner IZ7KHR, last year's winner LU9ESD, and three English hams, G3NKC, G4BUO, and G4XUM. This proved to be a great combination; everyone really enjoyed the experience." Third place went to the big DXpedition from the Rhein-Ruhr DX Association, CT9L. First place in Europe went to long-time top finisher, IR4X. The team has been having a good time on a mountaintop in central Italy for a very long time. Second place in Europe went to AM3SSB. Their signal sure was booming into the U.S. Third place in Europe went to the MTTOSZ Gyor Varosi Radio Klub, HG1S. The top two places in the U.S. went to stations from the Frankford Radio Club. Repeating from 2007, WE3C's station in eastern Pennsylvania took the top honors in this popular category. Second place went to Sig's team at N3RS overlooking the Pennsylvania Turnpike. Third place in the U.S. went to Mark's team at K1RX. There were several stations that put rare multipli-

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TROPHY WINNERS AND DONORS

SINGLE OPERATOR

ALL BAND

World

HC8A (Opr.: Richard Smith, N6KT)
Donor: Southern California DX Club

World Low Power

P40A (Opr.: John Bayne, KK9A)
Donor: Slovenian Contest Club

World QRP

Remigijus Vaicius, LY8O
Donor: Jeff Steinman, N5TJ

World Assisted

Philippe Lutty, LX7I

Donor: Glenn Johnson, W0GJ

U.S.A.

Randall Thompson, K5ZD

Donor: Potomac Valley R.C. – KC8C Memorial

U.S.A. Low Power

Arthur Hambleton, K1BX

Donor: North Coast Contesters

U.S.A. QRP

Doug Zwiebel, KR2Q

Donor: Pat Collins, N8WV

U.S.A. Assisted

Richard Di Donna, NN3W

Donor: John Rodgers, WE3C

U.S.A. Zone 3

Mitch Mason, K7RL

Donor: Dave Pruitt, K8CC & Greg Surma, K8GL

U.S.A. Zone 4

Mike Wetzel, W9RE

Donor: Dave Pruitt, K8CC & Greg Surma, K8GL

Canada

VY2ZM (Opr.: Jeffrey Briggs, K1ZM)

Donor: Contest Club Ontario

VE3WT Memorial

Caribbean/C.A.

8P5A (Opr.: Thomas Georgens, W2SC)

Donor: Alex M. Kasevich, VP2MM

Europe

CU2X (Opr.: Toni Linden, OH2UA)

Donor: Potomac Valley R.C. – W4BVV Memorial

Europe Low Power

CT8K (Opr.: Jose Manuel Farto Lopes, CT1CJJ)

Donor: Scott Jones, N3RA & Tim Duffy, K3LR

Russia

RK3AXX (Opr.: Willy Umanets, UA9BA)

Donor: Roman Thomas, RZ3AA

Africa

6W1RY (Opr.: Albert Crespo, F5VHJ)

Donor: Gordon Marshall, W6RR

Asia

5B4All (Opr.: Jack Danielyan, RW3QC)

Donor: CQ magazine

Japan

Masaki Masa Okano, JH4UYB

Donor: Tack Kumagai, JE1CKA

Japan Low Power

Fumi Konno, JA7LMZ

Donor: Western Washington DX Club

Oceania

9M8Z (Opr.: Steve Telenius-Lowe, 9M6DXX)

Donor: Northern California DX Club

South America

Tom Oliveira Martins, PY2YU

Donor: Yankee Clipper Contest Club

SINGLE OPERATOR, SINGLE BAND

World – 28 MHz

Juan Manuel Morandi, LU1HF

Donor: Joel Chalmers, KG6DX

World – 21 MHz

ZX5J (Opr.: Sergio Almeida, PP5JR)

Donor: Robert Naumann, W5OV

World – 14 MHz

VP2E (Opr.: Jeffrey Steinman, N5TJ)

Donor: North Jersey DX Assn. – K2HLB Memorial

World – 7 MHz

Dusko, Dumanovic, ZL3A

Donor: Fred Laun, K3ZO – K7ZZ Memorial

World – 3.7 MHz

EA8CMX (Opr.: Mauri Leppala, OH2BYS)

Donor: Fred Capossela, K6SSS

World – 1.8 MHz

CN2R (Opr.: James Sullivan, W7EJ)

Donor: Robert Wruble, W7GG

USA – 28 MHz

Courtney Judd, K4WI

Donor: Donald Thomas, N6DT

USA – 21 MHz

Victor Walz, N2PP

Donor: 11 PM Dayton Pizza Gang

USA – 14 MHz

Robert Shoet, KQ2M

Donor: Yankee Clipper Contest Club

USA – 7 MHz

Paul H Newberry, Jr, N4PN

Donor: Stanley Cohen, W8QDQ

USA – 3.7 MHz

Joseph Gagliardi, Jr, AA1BU

Donor: CQ magazine

USA – 1.8 MHz

Manuel Fonseca, Jr., W2MF

Donor: Glenn Johnson, W0GJ

Carib./C.A. (14 MHz)

Christopher Ellis, 9Y4D

Donor: Nate Moreschi, N4YDU

Europe – 28 MHz

Slaven Galic, E77A

Donor: Charles Dietz, W5PR

Europe – 21 MHz

Nikola Percin, 9A5W

Donor: Tine Brajnik, S5OA

Europe – 14 MHz

GI5K (Opr.: Chris Smith, MI0LLL)

Donor: Charles Wooten, NF4A

Europe – 7 MHz

YT8A (Opr.: Ceha Dusan-Dule, YU1EA)

Donor: John Warren, NT5C

Europe – 3.7 MHz

Robert Cummings, G10KOW

Donor: Ted Demopoulos, KT1V

Europe – 1.8 MHz

Joseph Cornee, F6CTT

Donor: Robert Kasca, S53R

Oceania (7 MHz)

KH7B (Opr.: Wilbert Kollenbaum, K4XS)*

Donor: Bruce D. Lee, KD6WW

Asia – 14 MHz

9K2K (Opr.: Abdallah Hamad AL-Muzayan, 9K2GS)

Donor: Charles Shinn, W7MAP

Japan – 14 MHz

Hasebe Tatsumi, JA2PAC

Donor: Take Yokoyama, JL1BLW

MULTI-OPERATOR, SINGLE TRANSMITTER

World

CN3A (Opr.: IK2SGC, I2WIJ, YO3JR, S50A, S50XX,

CN8WW)

Donor: So. Calif. DX Club – W6AM Memorial

U.S.A.

N0NI (Opr.: K0KD, KU1CW, N0AC, N0NI,

N0XR, N7AZ, W0FLS, K0WHV)

Donor: Carolina DX Association

Carib./C.A.

VP5DX (Opr.: N4KE, AB4UF, NU4Y)

Donor: Bob Raymond, WA1Z

Africa

CQ9K (Opr.: CT3BD, CT3DL, CT3DZ, CT3EE,

CT3EN, CT3IA, CT3KA, CT3KY, CT3NT)*

Donor: Doc Sayre, W7EW

Asia

P33W (Opr.: 5B8AD, 5B4AIA, RW4WR, RW3RN, RA3AUU, RX3DCX)

Donor: Edward L. Campbell, NT4TT

AA6BB and KA6V Memorial

Japan

J12ZJS (Opr.: JA2AXB, JA2JSF, JH2UVL, JG2TSI, JL2TAW, JM2RUV)

Donor: Bob Epstein, K8IA

Europe

TM6M (Opr.: F1AKK, F4DXW, F5MUX,

F5TTU, F8DBF)

Donor: Bob Cox, K3EST

Oceania

AH2R (Opr.: J3ERV, NH2C, JR7OMD,

JR8VSE, NH2N, JH7QXJ, AH2Q)

Donor: Junichi Tanaka, JH4RHF

South America

FY5YE (Opr.: F1HAR, F5HRY, F6FGZ,

F6FVY, FY5FY)

Donor: Victor Burns, K16IM –

The Cuba Libra Contest Club

MULTI-OPERATOR, TWO TRANSMITTERS

World

AO8A (Opr.: EA8AH, EA8CAC, EA8ZS, ES2RR,

ES5RW, OH1MA, OH2JA, OH3RB, OH5XT)

Donor: Array Solutions

U.S.A.

WE3C (Opr.: WE3C, KQ3V, NN3Q,

K3CT, KQ3F, W2GD)

Donor: Kimo Chun, KH7U & Mike Gibson, KH6ND

Dan Robbins, KL7Y Memorial

Europe

IR4X (Opr.: I4EAT, I4AVG, I4EWH, I4VEQ,

I4TJE, I4IND, I4IKW, I4KDC, I4EKW, IZ4BOY,

IK2NCJ, IZ3EYZ)

Donor: Aki Nagi, JA5DQH

Oceania

AH0BT (Opr.: W1FPU, AH0BR, AH0BM)

Donor: Japan CQ Ham Radio

MULTI-OPERATOR, MULTI-TRANSMITTER

World

K3LR (Opr.: K3LR, N2NC, N2NL, W3TX, K8GL,

W2RQ, KI4MTU, K1AR, N6MJ, N3SD, K3UA,

DL6LAU, N3GJ, LU7DW, WM2H)

Donor: Dave Leeson, W6NL, and Barb Leeson, K6BL

U.S.A.

W3LPL (Opr.: W3LPL, K1DQV, NI1N, ND3A,

WX3B, W3IDT, N3KS, K3MM, K3MM,

K3RA, WR3Z, W3ZZ, KD4D, K4ZA, AC6WI)*

Donor: Jim Lawson, W2PV Memorial

Europe

DF0HQ (Opr.: DG1ATN, DJ9AO, DL1AUZ,

DL2OBF, DL2OE, DL2SAX, DL3TD,

DL5AOJ, DL5AXX, DL5GA, DL5MLO, DL7FER)

Donor: Finnish Amateur Radio League

Japan

JR5VHU (Opr.: JR5VHU, JM1UWB, JA5FDJ,

JA5JCC, JH5FIS, JH5RXS, JR5JAQ, JR5PWV,

JJ6WYS, JK6RIP)

Donor: Ryozo Goto, JH3JYS

CONTEST EXPEDITIONS

World Single Operator

VU4RG (Opr.: Norbert Meyer, DJ7JC)

Donor: National Capitol DX Assn.

Stuart Meyer, W2GHK Memorial

World Multi-Single

VU7SJ (Opr.: DL9GFB, VU2JOS)

Donor: Gail Sheehan, K2RED

World Multi-Multi

VK9DWX (Opr.: DJ5IW, DJ7EO, DJ9RR, DL1MGB,

DL3DXX, DL5LYM, DL8OH, DL8WPX,

SP5XVY, ZS6DXB)

Donor: CQ magazine

*Second place

ers on the air and made big scores: PZ5Z, ZS9X, B1Z, VR2C, JU1DX, BVØJ, and WH2DX. FB job.

The continental winners were: North America: 6Y1V; Africa: AO8A; Asia: 4X0V; Europe: IR4X; Oceania: AH0BT; South America: PJ4E; Japan: JA1YPA, U.S.: WE3C.

Multi-Multi

Entering the multi-multi category is a real challenge. Months of planning the station

site, gathering together operators, and waiting to see what nature deals you makes for a combination of satisfaction and excitement.

It has been many years since the world's top scores came from the U.S. For the 2008 contest, we could say that the MM competition in the U.S. was really world-class. The number one score in the world and the U.S. was K3LR. Tim's crew broke into first place over friendly rival W3LPL. Frank's team took world and U.S. second-place honors. Third place in the world went to the multi-national

team from HQ3Z. In the U.S., after K3LR and W3LPL, third place went to KC1XX. Matt's station was severely damaged in an ice storm in late 2008. We hope to hear his fine signals again this fall. The German station of DF0HQ once again returned to the first-place position in Europe. Second place went to OT5A and third place went to LZ9W. The Chinese team B4TB made a big effort which allowed many contesters to log a new one. The wonderful effort by VK9DWX from Willis Island was a CQ WW first. The mountaintop

TOP SCORES

QTH of JR5VHU showed its muscle by taking first in Japan, edging out the green tea plantation QTH of JA3YBK.

The continental winners were: North America: K3LR; Africa: no entry; Asia: JR5VHU; Europe: DF0HQ; Oceania: VK9DWX; South America: YV4A; Japan: JR5VHU; U.S.: K3LR.

Team Contesting

Five contestants from anywhere can form a team. Register your team before the contest and you have the ticket to enter the team contesting category. A lot of planning goes into the top teams to make potential top scores. Many of the teams band together just to have fun. As you can see below, the teams can be formed with members from anywhere in the world. Besides sending a FAX or mail to CQ, you can submit your team list to <teams@cqww.com>. You will receive an acknowledgement from that site. You probably noticed the three XE teams entered into the team competition category. What a great way to increase activity in a rare zone. Good job! This year the World-Wide Young Contesters Ultimate Lids team took top honors. The results of team contesting are as follows:

1. **WWYC Team Ultimate Lids:** CU2X (OH2UA), ES5TV, LX7I (LX2A), NN3W, OH8X (OH4JFN): 35,057,283.
2. **Contest Club Finland –Team Mannerheim:** OA4WW (HP1WW), OG5B (OH5BM), OG6N, TC4X (OH2PM): 6,898,638.
3. **Carolina DX Association:** AA4S, KI4TZ, KZ2I, N4ZC, N4PQX: 5,966,359.
4. **KTU RC:** LY1R, LY4T, LY5R, LY6A, LY2OU: 3,319,606
5. **WWYC Team AYBABTU:** OG50F (OH1NOA), M3PHP, SM6U, EA7OT, G1ZQN (M0TZO): 3,092,157.
6. **VKCC - 30s:** VK3TZ, VK4CZ, VK4HAM, VK4KW, VK4TI: 1,654,595.
7. **Grupo DXXE – Full Calories:** XE1BY, XE1NW, XE2S, XE1CQ, XE1CWJ: 1,612,527.
8. **Mediterraneo Team:** IZ8CCW, IZ8BGY, IZ8IYX, IK8LTB, IZ8FWN: 1,531,844.
9. **MCC#1:** VA1CHP, VA1MM, VE1DT, VE1OP, VY2LI: 1,529,135.
10. **The Quebec Baritones:** VE2XAA, VA2WDQ, VA2SG: 941,727.
11. **WWYC Team IRC:** E21EIC, OQ5M (ON5ZO), LZ4UU: 878,474.
12. **Reus Radio Contest Group:** EE3Y (EA3EYD), EA3KN, EE3R (EA3OR), EA3NA, EB3EPR: 675,089.
13. **Grupo DXXE – Low Calories 1:** XE1AY, XE1CT, XE1GRR, XE1MM, XE1YJS: 613,767.
14. **Louisiana Contest Club Team #1:** K5ER, KA5M, N5HMH: 565,583
15. **Grupo DXXE – Low Calories 2:** XE1YYD, XE1ZVO, XE2AUB, XE3N, N6AN: 158,347.

Records

Beating an existing record is a real accomplishment. Take a look at the record list at CQWW.com. You might find that you have a chance to take on the personal challenge of going for a new record. If you discover an error in the record list, please document it and let us know at <questions@cqww.com>. Below are the outstanding efforts of super operators which resulted in setting

new world or continental SSB records during the 2008 contest. Congratulations!

World: A7 9Y4W; A3.7 OM2VL. **U.S.:14** KQ2M/1; A7 N2ZK. **North America:** 14 VP2E (N5TJ). **Africa:** A7 IG9R (IK8HCG). **Asia:** Q7 4X/UU2JM; A1.8 VR2DS. **Japan:** Q3.7 JF2MBF. **Europe:** A CU2X (OH2UA); 7 YT8A, 1.8 F6CTT; A7 TM7R (F5FLN); A3.7 OM2VL. **Oceania:** None. **South America:** A7 9Y4W.

plane, and within a few hours be operating from a DX location. The CQ WW is famous for hams going on DXpeditions. If you travel to an island, you will be surprised how the "island effect" will enhance your signal strength. Once your antenna sees salt water, you suddenly have a natural amplifier. Some of the exotic callsigns appearing in entrant's logs making the contest more interesting for all of us were: 3DA0DJ, 3V8BB, 4X0C, 4X0V, 5B4AII, 5Z4/RW1AU, 6V7M, 6W1RY, 6Y1V, 8P5A, 9K2HN, 9M8YY, 9M8Z, A73A, AH0BT, AH2R, AO8A, 78 Chinese contestants(!!), C6APR, CN2B, CN2R, CN3A, CN4P, CQ9K, CT/LZ3ND, CT1JLZ, CT9L, CU2X, D80Y, DL/N0HJZ,

Special Mention

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Dimensions: W 11.02" X H 5.51" X D 12.60"
Weight: 44lbs (41.8 lbs typ.)

Wide Frequency Coverage
1.8 MHz to 50 MHz including WARC bands.

Automatic Antenna Tuner Built-in
Capable of programmable switching of 4 antennas (SO 239)
Up to two antennas for the same band
Bands, Antennas, Tuning conditions are changed in 10 msec.

Fully Automatic
Easy connection with all models for immediate management of the bands, tuner and antennas: ICOM, YAESU, KENWOOD, TEN-TEC, FlexRadio, ELECRFT

Full Solid State
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700 W pep out (typ) on 50 MHz.
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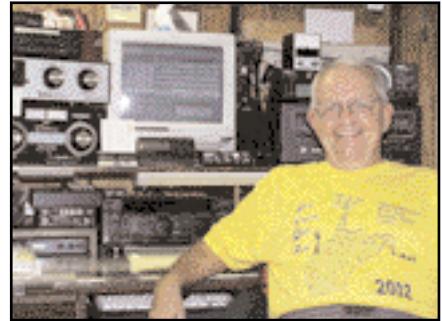
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John, W9ILY, on 21 MHz low power.



Gabi, YO8WW, #1 QRP Zone 20.



David, WA8WV, QRP from West Virginia.

E77J, E77XZ, EA6/AA5UK, EA6/DK5IR, EA8/EA4SV, EA8CMX, ED8D, EI/ON4EI, FG5KC, FY5KE, G/SP4BHD, G5W, GZ0F, HB0/HB9AON, HC8A, HQ2W, HQ3Z, HQ9R, HS0AC, HT2N, IG9R, IG9S, IH9N, IK/DJ1AA, IM0/IK0FMB, IS0/K7QB, ISS\$A, IS0C, IS0T, J37T, J42T, J43J, J88DR, KH6LC, KP2M, LA2AB, M7A, MW0X, MW9W, NH0DX, OA4WW, OE/DJ1AA, OH0E, OX2A, P33W, P40A, PJ2/OH2YY, PJ2T, PJ4/N0VD, PJ4E, PZ5Z, SU1KM, SU9HP, SV9CVY, SX5P, T32CXX, T88AC, T88YB, T8IC, TA2/DL7BC, TC4X, TC7KA, T11R, T15N, TK9R, TO4X, TO5DX, TO8Z, V26B, V31MX, V47JA, V48M, V6B, VK9DWX, VP2E, VP2EC, VP2V/K9NW, VP2V/SP7VC, VP5DX, VP5T, VP9/K3IRV, VR2EH, VU4MY, VU4RG, VU7SJ, WH2D, WH2DX, XU7ADU, YM2W, YV4A, ZA0/IK7JWX, ZK2DF, and ZM1K.

Comments

We received 5021 2008 CQ WW SSB contest logs of which 4881 were electronic! Thanks to all the contestants around the world who sent in a log. *Please send in your log no matter how small.* Your

effort to submit an electronic log allows for a fairer adjudication process. Submitting an electronic log is easy. Send your SSB log to <ssb@cqww.com> (CW to <cw@cqww.com>). Please send your log in Cabrillo format. If you have the capability with your logging program please submit a log with exact frequencies. Exact frequencies help in the log-checking process and help with statistical analysis of band openings.

Before you submit your log, you can help us a great deal by double-checking your Cabrillo submission. Please make sure the category you have chosen is correctly indicated. If you are submitting a single-band entry, please check to see your chosen entry matches what is in your log. If you did everything OK, you will get back an acknowledgment from the robot. If there was something wrong, you will get a message telling you what to do to correct the error. You can then resubmit your log to the same above addresses. If you are having submission problems, we can help you at <questions@cqww.com>. It bears repeating that if you make a mistake on your first submission, you can resubmit your log. It will replace the first submission. We archive all your submissions.

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	278/17/44	741/27/93	1412/34/113	2477/35/127	1995/29/98	539/15/47
CU2X	262/16/60	748/24/95	1333/28/102	2454/32/117	2932/33/124	39/8/19
8P5A	362/13/49	834/24/90	1160/31/104	2778/32/116	1736/26/92	177/12/28
VY2ZM	675/21/83	668/20/87	854/27/96	3274/34/129	473/25/87	1/1/1
5B4AII	173/10/56	342/19/85	1000/23/98	1546/32/108	2314/28/105	61/8/24
ES5TIV	592/20/77	1014/31/109	990/32/111	2395/38/137	400/34/93	92/6/28
SV9CVY	279/9/55	617/17/76	1841/29/107	2217/34/123	1425/26/102	270/9/41
VE3EJ	333/17/53	702/22/91	498/28/92	1738/38/129	931/28/100	28/6/10
K5ZD/1	112/14/55	410/21/86	765/27/100	1891/36/127	458/23/89	44/6/12
M6T	271/14/59	920/23/87	821/29/94	1833/37/112	849/31/98	24/3/19

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

CN3A	64/14/63	757/23/96	1733/33/119	2102/38/142	2817/35/141	78/15/35
FY5KE	288/15/67	588/28/100	847/31/117	2148/38/146	2931/35/139	120/21/59
P33W	256/12/66	671/24/96	1429/33/123	2605/37/145	2472/35/132	158/12/39
C09K	203/13/63	529/23/102	1276/37/122	2384/39/150	2016/36/143	30/14/30
3V8BB	372/10/62	913/23/90	1293/30/121	2186/38/144	1396/37/131	319/14/48
TM6M	241/17/78	1101/23/105	1318/35/131	2226/39/152	1352/35/129	21/7/21

WORLD MULTI-OPERATOR TWO TRANSMITTER

A08A	309/16/67	1628/26/106	1837/31/115	3280/40/146	3281/38/149	71/14/41
6Y1V	470/15/65	1003/22/93	2374/29/116	2779/36/131	2129/34/123	85/11/27
C19L	210/12/61	943/19/86	1724/32/120	2008/34/120	2622/31/108	27/9/18
PJ4E	262/13/45	801/21/88	691/26/94	3349/34/131	2295/31/115	133/13/30
IR4X	201/14/66	1187/30/113	1720/35/133	2295/39/159	1665/38/149	73/11/48
PZ5Z	109/13/27	752/26/90	1107/29/109	3308/38/132	1769/27/106	62/15/24

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	350/21/75	1279/29/115	1475/32/128	3177/39/165	1666/31/130	105/9/17
W3LPL	429/21/82	1002/28/111	1377/31/127	2813/39/157	1377/32/129	72/9/16
HQ3Z	506/15/52	1303/23/90	2044/29/100	2587/33/119	2302/33/116	163/15/29
DF0HQ	990/16/82	2040/26/105	2844/39/148	2170/40/156	937/35/131	236/10/52
KC1XX	279/18/71	1024/27/112	1066/30/120	2517/38/153	1266/30/132	149/8/22
YV4A	225/12/51	445/21/77	1443/33/129	2358/35/123	2061/34/112	207/12/29

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	112/14/55	410/21/86	765/27/100	1891/36/127	458/23/89	44/6/12
K1LZ	97/12/46	573/20/88	395/25/87	1705/33/122	474/25/90	63/6/13
K1DG	116/16/70	376/24/90	244/24/92	1677/33/123	374/23/92	52/6/19
K4ZW	67/15/46	404/20/85	649/28/95	1285/37/121	518/25/90	14/5/10
N2NT/1	93/12/45	377/22/85	416/24/86	1687/32/118	343/23/91	73/6/16
K3CR	65/11/43	330/19/75	338/22/86	1316/33/123	673/23/92	16/4/5
W9RE	51/10/26	226/26/81	566/28/102	1038/37/124	800/24/90	15/4/4
N5DX	55/13/32	162/24/74	496/29/88	814/36/111	743/28/90	16/5/7
N2IC/5	34/12/25	185/22/69	487/31/89	904/34/110	583/32/94	51/6/8
AA1K/3	67/13/45	175/20/63	408/24/81	1089/32/115	536/24/88	2/1/2

USA MULTI-OPERATOR SINGLE TRANSMITTER

N0NI	98/16/52	346/27/99	216/27/98	1336/36/141	605/31/106	7/6/6
K9RS/3	91/16/58	380/25/97	383/28/106	1063/37/130	394/29/103	30/8/16
K8AZ	51/15/50	266/26/98	322/28/113	1155/37/141	341/30/105	35/7/12
K5TR	43/14/42	139/25/85	540/31/117	851/37/138	567/33/113	71/10/16
N1MM	41/10/33	219/22/85	547/26/102	695/34/119	513/28/106	84/7/13
K5NA	76/15/48	233/27/94	352/32/113	549/35/131	603/33/107	58/8/11

USA MULTI-OPERATOR TWO TRANSMITTER

WE3C	115/18/72	745/27/105	1175/28/120	2223/38/152	1224/32/122	49/10/21
N3RS	58/11/38	591/24/98	958/30/116	1586/37/142	897/31/119	47/7/14
K1RX	139/14/61	543/25/101	460/28/110	1502/34/127	490/28/107	65/6/13
W4RM	69/15/43	431/23/85	710/28/103	1364/35/131	596/26/97	3/2/3
N4T	66/12/48	321/20/86	640/28/107	1633/38/137	557/30/100	59/8/22
KB1H	48/12/34	321/21/92	315/24/98	858/36/129	593/29/113	91/7/19

USA MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	350/21/75	1279/29/115	1475/32/128	3177/39/165	1666/31/130	105/9/17
W3LPL	429/21/82	1002/28/111	1377/31/127	2813/39/157	1377/32/129	72/9/16
KC1XX	279/18/71	1024/27/112	1066/30/120	2517/38/153	1266/30/132	149/8/22
N04I	214/16/58	572/27/108	741/30/116	1701/38/147	1045/33/120	87/8/12
K3NA/1	200/16/74	586/25/99	761/29/117	1633/37/141	642/27/106	102/6/20
K1TTT	278/15/57	642/24/99	855/27/112	1625/37/132	559/29/109	127/8/17

Accurate Measurements. No Excuses!

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Forward power, reflected power and VSWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.



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SS-330W Convenient, lightweight 30 amp switching supply.

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- Built-in fan
- Weighs less than 5 lbs.
- Carrying handle



NEW! POWER SUPPLY

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Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty diecast cavity construction.

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- Conn: SO-239

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- 2-position 2GHz switch
- Max.power: 1.5kW CW
- Conn: Gold plated N-type



ECONOMY SERIES

Accurate and dependable bench meters at an economy price. Lighted 13.8VDC jack on rear panel. 6"l x 3" h x 4" d (approx.)

CN-101

- Frequency range: 1.8-150MHz
- Forward power ranges: 15/150/1500W

CN-103M

- Frequency ranges: 140-525MHz
- Forward power ranges: 20/200W

CN-103N

- Same as CN-103, but with N-type connectors



PROFESSIONAL SERIES

Accurate and dependable featuring a large,easy-to-read lighted meter.13.8VDC jack on rear panel. 6"l x 4 1/4" h x 4 1/2" d (approx.)

CN-801HP

- PEP reading SWR/power meter
- Frequency range: 1.8-200MHz
- Forward power ranges: 20/200/2000W

CN-801V

- Frequency range: 140-525MHz
- Forward power ranges: 20/200W

NEW! CN-801G D-STAR

- Frequency range: 900-1300MHz
- Forward power ranges: 2/20W
- N-type connectors



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EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CU2X	262/16/60	748/24/95	1333/28/102	2454/32/117	2932/33/124	39/8/19
ES5TV	592/20/77	1014/31/109	990/32/111	2395/38/137	400/34/93	92/6/28
SV9CVY	279/9/55	617/17/76	1841/29/107	2217/34/123	1425/26/102	270/9/41
M6T	271/14/59	920/23/87	821/29/94	1833/37/112	849/31/98	24/3/19
ER0WW	467/13/60	763/18/80	1558/33/112	1746/34/102	809/28/77	44/5/23
RZ3AXX	118/11/45	617/29/91	1282/36/120	2040/38/124	624/23/72	22/6/10
RW1AC	204/12/58	790/27/96	912/30/115	1743/36/115	652/31/84	30/9/21
OH8X	247/11/54	331/21/71	412/28/89	2897/38/114	573/32/89	15/6/12
GW4BLE	104/8/45	800/19/78	745/24/82	1540/30/99	794/27/76	8/2/6
HA8JV	390/11/63	988/22/90	579/25/96	1486/35/124	477/32/98	22/6/19

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

TM6M	241/17/78	1101/23/105	1318/35/131	2226/39/152	1352/35/129	21/7/21
IR4M	193/14/65	477/24/97	1008/35/127	1718/39/147	1450/38/136	94/10/50
HG6N	346/12/63	1235/22/102	1026/34/131	2183/40/155	904/36/136	30/9/30
OM7M	306/15/72	524/21/96	1361/36/134	1699/38/147	944/36/137	44/8/41
OK5W	140/15/71	1013/26/111	1207/37/134	1328/37/143	884/37/133	37/11/37
E17M	330/16/72	863/19/92	1226/33/115	1839/36/135	898/29/100	13/5/13

EUROPE MULTI-OPERATOR TWO TRANSMITTER

IR4X	201/14/66	1187/30/113	1720/35/133	2295/39/159	1665/38/149	73/11/48
AM3SSB	119/12/46	814/18/82	1483/28/102	2171/39/140	1151/36/115	72/4/19
HG1S	228/9/57	1282/21/91	1300/34/125	1855/37/141	684/35/110	31/8/28
DO4W	362/11/59	1210/19/101	892/33/124	1553/36/146	862/37/138	39/7/23
DL1QO	492/14/68	1184/26/107	1009/34/129	1365/37/136	510/35/111	29/7/27
DR5Z	359/8/55	626/19/79	582/30/111	1366/38/137	848/36/130	44/7/28

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

DF0HQ	990/16/82	2040/26/105	2844/39/148	2170/40/156	937/35/131	236/10/52
OT5A	875/12/62	2090/19/94	2314/38/131	2188/40/143	841/33/118	320/10/49
LZ9W	637/10/66	1413/25/98	2531/34/127	1926/38/149	1065/38/132	111/11/44
DR1A	484/15/65	1246/20/81	1623/34/123	2293/36/141	791/36/120	95/9/32
OH5Z	627/12/68	824/25/91	1839/37/135	2067/38/145	623/36/115	63/5/20
LY7A	688/10/59	1244/14/71	1996/28/119	1904/37/132	576/34/102	96/8/38

The CQ WW Contest Committee provides several ways for an entrant to check his/her log for category, club, and operator. Soon after you submit your log and long before the final results are published in CQ magazine, a *log received list* with your category is posted on the CQ WW site (cqww.com). Look over this list to find if your data is accurate. If it is not OK, please let us know at <questions@cqww.com>.

About one month before the results are finalized in CQ, you will receive via e-mail a password that will allow you access to your log analysis. This is called your *report* (rpt). You can look over the report to again verify your category and other information.

Thanks to the input from numerous entrants, a few systemic errors were found and corrected. All these efforts help to make the results as accurate as possible. Everyone enters the contest to have fun, meet friends, perhaps work some new ones, and fairly compete. You can see information concerning the CQ WW on the web page at: <<http://www.cqww.com>>.

Top Scores: If you plan to try to make the Top Score Box, you can count on your log being scrutinized. In a perfect world we would not have to spend a great deal of extra effort to check potential problem logs. Unfortunately, some entrants feel they must win at any cost, even if it means cheating by not following the rules. Just as in other aspects of life, cheating in the CQ WW will not be tolerated. The use of undeclared packet; the use of additional operators for a single operator entry; two signals simultaneously on the same band, or on separate bands at the same time, if you are single operator; all are in violation of the CQ WW rules. If you are multi-single, do not alter the times in the log to conform to the 10-minute rule. The CQ WW has at its disposal many methods to verify the score of an entrant. A few of these methods are: category averages for packet and non-packet scores, statistical aids to verify winners, URL tracing, packet clusters, reverse log time/band checking (which provides times and frequencies of more than 80% of the QSOs in any log).

If you are a single operator in any single operator category, you cannot receive help which could impact your score in any way from another person or any DX spotting network. Every year we receive reports of someone allegedly having another operator spot or work

QSOs for him or the unclaimed use of packet. This is not following the rules and could result in disqualification. We will crack down on such cases. The use of packet to self-spot is against the rules. There is nothing wrong with coming across a station and spotting it, but self-spotting is against the rules. There is no problem with using any DX spotting network: *just claim to be assisted*. The CQ WW has few requirements: write down the callsign of the station you are talking to, claim the correct category, and do not self-spot. Not so hard.

We enter the contest to fairly compete and have fun. A fair competition means that everyone is following the same written rules.

Thanks

Creating the results you see in CQ magazine is just the final product of a lot of work. Entrant log submission problems, incomplete logs, forgotten band changes not in log, incorrect call indicated as used in the contest, and a myriad of other subtle problems are sorted out behind the scenes. Using an armamentarium of log-checking tools and data sources, the CQ WW Contest Committee has done its best to certify the winners. The members of the committee who provided insight into many contesting topics are: K1DG, K3WW, K3ZO, KR2Q, K3LR, N2AA, N2NC, N3ED, N9RV, W3ZZ, K1AR, KM3T, KT3Y, W5OV, K5ZD, N2NC, WØYK, N5KO, K6AW, N6AA, N6TW, N6TR, K5TR, W6OAT, and N8BHQ. The DX advisors who offered advice and sorted out potential problems are: CT1BOH, EA3DU, F6BEE, G3SXW, I2UIY, JE1CKA, OH2KI, OH2MM, PY5EG, S50A, UA9BA, VA7RR, VE3EJ, and E21EIC. A special thank you to Ken, K1EA, who spent countless hours making the CQ WW database the best in contesting. Thanks as always to John, K1AR, and Tim, K3LR, for their advice. We also want to thank Barry, W5GN. Barry has provided the machinery to send certificates to you in a timely manner. Over many years, Larry, N6TW, has been a solid rock in contributing to the results of the CQ WW. Larry, all of us owe you a debt of gratitude. The CQ WW records are maintained by John, N2NC, and K3EST.

Finally, last year we lost one of our important members, Paolo, I2UIY. His insights and focus on honest contesting always made us alert. Paolo, a friend, with his great wit and his distinctive laughter, will be truly missed.

Congratulations to all the winners and entrants!

73, and CU in the '09 contests!

Bob, K3EST

DX QRM

Another fun contest was had by all at 6Y1V. This year KY1V was joined by Young Ham Contest Program Winner IZ7KHR, last year's winner LU9ESD, and three Brits, G3NKC, G4BUO, and G4XUM. This proved to be a great combination; everyone really enjoyed the experience. A few problems were encountered with the antennae following hurricanes involving a significant amount of effort. HF conditions were not good, but LF seemed to be really buzzing ... **6Y1V**. My best single-op contest entry ever. Once again, CQ WW makes its own propagation: terrific conditions, especially on 15m, completely unexpected at this stage of the solar cycle ... **9M8Z**. Great fun in a great contest with several newly minted hams! ... **A73A**. Our first M/2 effort. Everybody was on 20m, 40m, and 80m absolutely crowded. 10m was open only 1 hour on Saturday. Thanks to everybody who contacted us ... **AM3SSB**. Once again, CE1W on the air, step by step to the top, new Chile all time record ... **CE1W**. CQ WW forever! ... **DL4EAX**. Had lots of fun despite rig issues putting out 30W PEP on SSB! Will try again next year to do better. Too bad 10 meters did not open more from Europe ... **EA6/AA5UK**. 15m open on Saturday was nice. 20m operating spread over Saturday and Sunday. 40m and 80m early Sunday was enjoyable ... **EI4DJB**. Licensed for two weeks and two bits of wires for antennas. In CQ WW SSB Contest! Crazy? No, why not? Two new ones on three on these bands, good score ... **F4FWN**. First time entry and pleasantly surprised at what could be achieved with 50 watts and bent wire dipoles ... **G0CPA**. This was our first time on CQ WW during which it was used as training and experience for our new and younger members. We enjoyed it very much ... **G4ARN**. Hard work with 100W as my linear was at GM0B this year. Best moment was working HC8A on 40 metres 80 watts to homemade vertical antenna. Next year high power ... **GM0EGI**. A struggle from start to finish, but great fun nevertheless! Lost electric power for 10 hours on the Saturday and 93 mph winds recorded on the island ... **GZ0F**. My first CQ WW contest as single operator from Thailand. Quite a few stations/multipliers heard but not worked. Hard to break US/EU pileups from South East Asia with a small signal. Great fun as always. A lot of activity from Thailand now ... **HS0ZGD**. More than 500 QSOs and 90 countries with an inverted V wire dipole. Big fun ... **IK2DZN**. First time together for some members of the local ARI's radio club, a very big fun! Also first try in a CQ WW

Contest for a lot of the team members. ... **IR9Y**. I have just come back to the contest after 38 years absence. The propagation was not favorable for low power and small antenna, but really enjoyed the contest ... **JA7HYS**. This year a lot of changes were made on antennas, but surely system is not yet finished and I have some more plans for the next year. More information on my system could be found on www.lx2a.com. Thanks for all who called me. Before the contest I never had imagined to make this great score, ... **LX7I**. A very successful contest for a large team of operators of various experience levels from the Cambridge University Wireless Society. For once this year we had no major problems and even the weather was kinder than in previous years. A pity that 15m wasn't anywhere near as good as last year. Thanks for all the QSOs ... **M4A**. Low power needs more propagation! ... **NH7FY**. With no antennas for 40/80m and 10/15m nearly closed I had to agonize about the decision between crowded 20m or working 160m EU. Still had fun. It's CQ WW! ... **OE5T**. My third CQ WW. The goals this year were to be on 40 and have some experience with the crowded band, and I did! Enjoyed the contest and see you back next year! ... **ON3TO**. First CQ WW DX on SSB ever. What a zoo on 40m! :) ... **PA4N**. New for me was to work VE and K stations on 40 meters in the BC station band 7100–7200 for the first time. P4 was a new one, too. New on 20 meters was VP2. Great DX. So a great contest for me with QRP See you all next year again ... **PE2KP**. Haven't antennas for low bands. Just collected DXCC and zones. Especially thanks to LZ7J who show "ham spirit" on my frequency during half hour ... **RV2FW**. Just one week before moving to new QTH. All roof antennas already disassembled. Used car antenna attached to the balcony on the second floor. QRP is powerful as I managed to work zones 25, 34, and 18. Had great fun and every QSO was a joy. ... **SP5DDJ**. I did only operate for 10 hours on Sunday, but average score was over 40 Qs per hour. That was my highest ever. The extra power did help. My only antenna was for 20m so I was limited to daylight. Conditions started in the morning and disappeared in the afternoon. Highlights included A73A in Qatar, 9K2K in Kuwait, and PZ5Z in Surinam. Great fun as always. Thanks for organizing this great event ... **TF3AM**. The epoch of high power is over for me! For the first time in 10 years I worked in CQ WW low power. During those years in category HP I have established new country records 10, 15, 20, 40, 80, 160m and all bands. Now it is the time to get rid of power amplifier and be in CQWW Contest in category low power next 7 or more years. Thanks to all contestants and organizers CQ WW for a nice contest! CQ WW is the event which is awaited 363 days in a year! ... **UK9AA**. Unbelievable courtesy from operators who unknowingly started operating +/-0.5 kc from us to move up/down the band, from stateside and European stations. Thank you all! ... **V48M**. Any excuse to get on 160 meters and make some noise, I always like to say! (Even if my favourite mode just happens to be CW, and NOT SSB! Hi Hi). Still, it was great hearing a few otherwise stalwart CW aficionados switch to their microphones for a change, even me! ... **VE3CUI**. My QSO with 8P5A on Oct. 26 made me think of R. A. Fessenden, radio pioneer, whose first radio broadcast in voice was made on Christmas

TOP SCORES IN MOST ACTIVE ZONES

Zone 3			
K7RL	2,394,040	W3BGN	2,729,251
N6TJ	2,125,669	K3ZO	2,687,024
WC6H	1,544,018		
W7AT	1,030,080	CU2X	11,043,872
K6XX	1,014,300	M6T	5,864,868
**W7WA	816,452	GW4BLE	4,405,968
**N7DD	681,948	GM7V	4,089,600
VA7ST	541,270	G5W	4,025,875
NN7ZZ	523,008	EA4KR	3,829,224
K7VIC	496,920	DJ8OG	3,488,496
VE3EJ	6,472,174	LN8W	3,038,616
CK3AT	5,577,291	DJ4PT	2,747,430
W9RE	4,020,992	*CT8K	2,405,340
N5DX	3,199,983	ES5TV	6,860,712
N2IC/5	3,141,460	OH8X	4,775,945
VE3CX	2,149,941	HA8JV	4,356,936
*VE3DZ	2,109,028	OE4A	3,856,069
K0RF	1,883,056	E73M	3,220,000
*VE3NE	1,639,760	II4A	2,098,174
K4AB	1,478,880	OH0E	2,060,300
VY2ZM	9,160,112	OG50F	1,907,145
K5ZD/1	6,121,516	*9A2EU	1,621,550
K1LZ	4,915,323	LY5R	1,552,056
K1DG	4,620,600	ER0WW	5,517,720
K4ZW	4,601,575	RZ3AXX	5,453,470
N2NT/1	4,584,160	US5D	2,923,250
K3CR	4,051,088	RM3F	2,824,345
AA1K/3	3,005,836	RW1ZA	2,377,771

Zone 14			
CU2X	11,043,872	M6T	5,864,868
**W7WA	816,452	GW4BLE	4,405,968
**N7DD	681,948	GM7V	4,089,600
VA7ST	541,270	G5W	4,025,875
NN7ZZ	523,008	EA4KR	3,829,224
K7VIC	496,920	DJ8OG	3,488,496
VE3EJ	6,472,174	LN8W	3,038,616
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K4ZW	4,601,575	RZ3AXX	5,453,470
N2NT/1	4,584,160	US5D	2,923,250
K3CR	4,051,088	RM3F	2,824,345
AA1K/3	3,005,836	RW1ZA	2,377,771

Zone 20			
5B4AII	8,770,736	SV9CVY	6,784,912
**TC4X	891,310	*OD5NJ	686,336
K7VIC	496,920	*TA2/DL7BC	684,216
VE3CUI	1,015,544	*YO3CZW	643,648
W9RE	552,330	*Y03FRI	580,992
Y03RU	445,544	LZ3FN	552,330
LZ1BJ	423,330	JH4UYB	4,577,027
VE3EJ	6,472,174	JA7NVF	1,624,120
CK3AT	5,577,291	JF2QNM	1,163,081
W9RE	4,020,992	JA3AOP	801,810
N5DX	3,199,983	OG50F	700,942
N2IC/5	3,141,460	II4A	2,098,174
VE3CX	2,149,941	OH8X	4,775,945
*VE3DZ	2,109,028	HA8JV	4,356,936
K0RF	1,883,056	OE4A	3,856,069
*VE3NE	1,639,760	E73M	3,220,000
K4AB	1,478,880	II4A	2,098,174
VY2ZM	9,160,112	OH0E	2,060,300
K5ZD/1	6,121,516	OG50F	1,907,145
K1LZ	4,915,323	*9A2EU	1,621,550
K1DG	4,620,600	LY5R	1,552,056
K4ZW	4,601,575	ER0WW	5,517,720
N2NT/1	4,584,160	RZ3AXX	5,453,470
K3CR	4,051,088	US5D	2,923,250
AA1K/3	3,005,836	RM3F	2,824,345

Zone 15			
ES5TV	6,860,712	OH8X	4,775,945
HA8JV	4,356,936	OE4A	3,856,069
II4A	2,098,174	E73M	3,220,000
OH0E	2,060,300	II4A	2,098,174
OG50F	1,907,145	OH0E	2,060,300
*9A2EU	1,621,550	OG50F	1,907,145
LY5R	1,552,056	II4A	2,098,174
ER0WW	5,517,720	HA8JV	4,356,936
RZ3AXX	5,453,470	OE4A	3,856,069
US5D	2,923,250	E73M	3,220,000
RM3F	2,824,345	II4A	2,098,174
RW1ZA	2,377,771	OH0E	2,060,300

Zone 25			
JH4UYB	4,577,027	JA7NVF	1,624,120
JA7COI	566,564	JF2QNM	1,163,081
JH0JHA	512,696	JA3AOP	801,810
JA7YAA	572,055	**JA2PAC	700,942
JA7COI	566,564	JA3USA	649,704
JH0JHA	512,696	JR7WAB	616,050
JA7YAA	572,055	JA7COI	566,564
JA7COI	566,564	JH0JHA	512,696

Eve, 1906. He is buried on the island of Bermuda. Epitaph Inscription "I am Yesterday and I Know Tomorrow" ... **VE3EDY**. Surprisingly good condx considering low sunspot numbers. Lots of fun. 80 and 40 open to all areas of the world. A real treat for our "black hole" in VE5 land ... **VE5RI**. This contest was a great opportunity for many of the over 12 new hams who passed their Basic Exams in our club in 2008. For many of these operators this was their first great experience in working DX ... **VE7NA**. My first time in this great contest and will be back next year. Thanks to all who listened for me ... **VK4BL**. It was a pleasure to take part in the CQ WW as an DXpedition for the first time. We enjoyed the interest of the participants to work with us very much and we hope all had the same fun as we had. Best wishes to everyone!!! DL9GFB/VU2JOS ... **VU7SJ**. 15m was pretty marginal here in VY2 and 10m nonexistent! Tks to all the old friends who called in this time ... **VY2ZM**. It was fun. First time ever. I am just nine years old ... **WP4NVK**. I am happy to follow WW DX contest for first time because I am newcomer in ham radio. All the best to you ... **YC6BRS**. Pretty bad propagation in YO, with little-to-no real runs towards NA. Good participation from all continents. Didn't put up much effort after first day, just enjoyed the rest of the contest and gave out some points. 73, Mircea, YO3XX ... **YP3A**. Good fun! Good polite operating observed. Some interesting phonetics utilized in efforts to get callsigns through the noise! Wish I could have logged more ... **ZL1AAO**.

USA QRM

It was wonderful to see 15 open again. Now let's see what 10 can bring! Great contest as usual ... **AC9S**. 20 meters much better this year into Colorado. At least one signal every 1 kHz! Running was difficult, mostly had to do S&P ... **K0IZ**. Golf date on contest Friday cut into start. Nice western EU openings on 15 both days. Special thanks to JA1NUT for a rare SSB QSO! ... **K0RF**. Lots of fun with only a 160 mtr Windom and a dipole at 25 ft for 20m! ... **K1HTJ**. Can't believe the QRM on 20 meters. How can you pack so many stations in a 200 kHz bandwidth? There must have been ten stations deep per every kHz. When will the higher bands open up to spread out the contesters? ... **K2MFY**. Where did 10 meters go? Best conditions ever on 160m, worked plenty of stations with a shorted G5RV... **K2CS**. Not much to show for an 8 hour effort but this was my first CQ WW and I had a lot of fun. What I need now is a better antenna system. I am psyched for the contests to come! ... **K4EET**. Good conditions or bad, this contest always offers a few nice surprises. 40 was as amazing as 10 was bad ... **K5ZD**. Another CQ WW with no sunspots. Never heard a signal on 10m! I tuned up there several times too and called CQ. 15m had a surprise early Sunday morning opening to CT, I, F, EA, etc. On 20m, there were times when it was S9+ sigs solid from 14150-350. Strong EU/SA openings there. On 40m, the usual deaf EU and EU/Far East stations booming in and not listening up. On 80m, my R7 seemed like a wet noodle. Hopefully, there will be better condx for the CW part ... **KC6X**. More 15m activity in CQ WW SSB than the whole rest of the year! Maybe the new sunspot cycle didn't stall out after all! ... **KE7DX**. My first CQ WW. I had a great time, and worked several new DXCC entities. Best was Spain and Italy on 40m Sunday AM, and HI on 15m Sunday afternoon ... **KG4ZDM**. I am 9 years old and this is my second contest. Great fun! ... **KJ4BIW**. Way to go Africa! Even with a sunspot count of 0 worked more Africans in this contest than ever before in 52 yrs of contesting! ... **KS7T**. This was my first CQ WW as a high power entry. Lots of fun with many new ones on the low bands. Even some propagation on 15m ... **N0YO**. I hope everyone had a good time. Conditions were not great but good enough to provide some great Q's... **N1BCL**.

Great "cherry pickin." 11 hours of fun. Wanted to play in the sandbox some more, but grass mowing, "honey-do," Eagles game, and the Phillies in the World Series. Too much to do, and never enough time. Lotsa new ones on 40m and 75m for 5BDXCC. 18 new countries on 40; 7 on 75m. Seeing the light at the end of the 5-band tunnel. Hi! ... **N3TR**. Mobile with minimum time; however, good to participate some to keep the hobby alive ... **N4LS**. What a great experience operating from W8J's super station. If log checking holds up, will have set a new US record for 40m in this one. Conditions were good and no problem with equipment or QRN. Just terrible broadcast QRM all over the band ... **N4PN**. Another bad year on the third rock. Someday 10/15 will really open, hopefully in my lifetime ... **W3TZ**. JH1OGC gets my vote for best "ears." TM6M was the only European who

could hear me. Rig here was "Original" IC-706, CtWin, and HF-2V ... **W6HH**. Wow, my first CQ WW! People were very nice. Had a very fun time! ... **W7JAZ**. The great activity opens up the bands every year. Spent months getting new tower ... **W9RE**. Had a great time even though conditions were pretty poor. Nice to see 15m open for a run from U.S. East Coast to Japan and New Zealand. Look forward to next year. Thanks for putting on the contest ... **WB4ROA**. Hey, conditions are finally looking better! ... **WB8JUI**. Conditions much better this year! 20 and 15 meters were excellent. Next year maybe 10 meters will be alive again? See you then! ... **WK0P**. Always challenging from AZ but did OK considering. Need to upgrade here to be more competitive but I sure have fun with what I have! ... **WU9B**.

(Continued on page 101)

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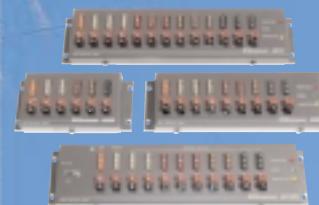
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Results of the 2008 CQ WW DX SSB Contest (from page 29)

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

2008 SSB RESULTS

SINGLE OPERATOR

NORTH AMERICA

United States

K5ZD/1	A	6,121,516	3680	127	469
K1LZ	"	4,915,323	3307	121	446
K1DG	"	4,420,600	2839	126	486
N2NT/1	"	4,584,168	2989	119	441
W1HIS	"	638,050	687	262	
W6PH/1	"	596,920	766	77	233
W1OP	"	584,168	695	77	251
	(OP: K1PLX)				
N1D	"	524,901	639	74	239
W1FM	"	344,810	482	77	213
W1KO	"	330,638	478	60	206
W1WFF	"	270,657	421	75	186
K1SDN	"	201,480	335	61	169
W1BYH	"	187,824	258	77	224
W1ZS	"	184,569	374	45	142
N4XR/1	"	148,350	259	61	169
KB1BW	"	118,140	257	40	139
KB1PAJ	"	90,760	177	33	91
K1KU	"	52,752	145	43	114
W1WOM	"	46,512	183	45	108
	(OP: WA1NH)				
AD5T/1	"	24,416	109	37	73
W1YRC	"	12,851	68	29	42
A11O	"	12,441	86	27	60
W1MK	"	1,443	28	15	24
K1YM	"	840	24	10	18
NN1N	21	146,433	413	29	104
K02M/1	14	1,242,150	2504	38	144
W3UA/1	"	693,211	1488	35	138
K0P1	"	683,612	1744	30	118
K1M	"	196,983	603	27	102
W1XX	7	118,560	421	25	89
W1CSM	"	900	101	5	13
AA1BU	3.7	216,882	723	19	87
W5MMU/1	"	168,498	626	20	91
K1HAP	1.8	8,832	71	11	37
*W1BK	A	1,655,738	1346	101	353
*N1UR	"	1,591,320	1331	101	346
*N1PCA	"	684,070	752	75	260
*W1JO	"	291,375	426	65	194
*N4CW/1	"	278,863	418	59	188
K1BV	"	207,427	426	36	137
*K1SLB	"	180,297	355	52	149
*W1AO	"	155,792	278	55	153
WB1EDI	"	117,018	229	53	144
*W1TK	"	116,610	243	40	129
*W1DAD	"	63,600	166	43	107
*AD1DX	"	51,770	170	53	102
*W1RPG	"	46,182	152	38	91
*K1AC	"	39,648	137	33	85
K1HTJ	"	39,474	144	42	87
*K1KH	"	34,226	124	36	73
*KA1VMG	"	17,094	83	22	55
*N1HTS	"	16,511	77	22	57
*W1GXZ	"	16,500	90	23	52
*W1R10	"	14,691	87	31	52
*KBJ1DY	"	13,090	96	32	53
*K1VU	"	12,126	75	29	57
K1KNU	"	11,748	70	22	44
*W1JB	"	11,455	70	30	49
*W1URA	"	7,680	61	19	41
*K1NKA	"	7,452	54	25	44
*AB1JB	"	5,865	48	26	43
*W2JU/1	"	5,832	42	21	33
*KBF1RK	"	5,551	48	20	41
*K1NP1	"	2,576	35	19	27
*N1NN	"	1,683	26	12	21
*W1OH	"	837	17	13	14
*N4OX/1	"	36	3	3	3
*KB1LXX	"	0	1	1	1
*N1NK	21	45,838	199	18	64
*K1VSJ	"	36,465	156	19	66
*W1DYJ	14	4,116	39	13	29
W2GB	A	565,950	752	66	228
WA2NHA	"	560,196	777	67	206
N2ED	"	498,582	631	94	284
W2LK	"	291,893	418	66	193
NE2I	"	255,195	452	72	193
K2NV	"	119,400	232	56	143
K2UT	"	95,864	204	54	130
W2FUI	"	73,712	188	38	98
KM2L	"	68,586	177	38	100
N2LT	"	65,554	157	43	103
W2TB	"	47,847	143	32	91
K1P2	"	47,376	157	35	91
N2CK	"	43,568	150	33	79
W6AAN/3	"	1,601,249	1286	105	376
N1WVR/3	"	1,259,715	1136	91	320
K2ZI/4	"	565,110	660	77	238
W4EEH	"	454,720	596	69	221
N4PSE	"	419,575	515	79	246
N4RA	"	365,211	511	68	211
N4MM	"	344,792	450	69	201
KF4VTT	"	314,400	295	56	146
W4PNW	"	300,780	536	74	196
A4AMM	1.8	3,822	56	11	38
W8JJ/4	3.7	114,950	485	27	94
(OP: W4LL)					
N4PN	7	493,041	1344	31	118
N4MM	"	567,774	674	92	255
KU8E/4	"	457,120	596	69	221
AA4NU	"	18,788	100	22	55
W8JJ/4	3.7	114,950	485	27	94
(OP: W4LL)					
N4PN	7	493,041	1344	31	118
N4MM	"	567,774	674	92	255
KU8E/4	"	457,120	596	69	221
AA4NU	"	18,788	100	22	55
W8JJ/4	3.7	114,950	485	27	94
(OP: W4LL)					
N1QX/5	"	77,818	260	38	108
WN5V	"	66,576	215	39	107
K7IA/5	"	61,200	215	41	95
N5RGV	"	50,050	205	46	97
K45ZQM	"	49,432	143	54	94
KD5JAA	"	41,328	151	48	75
W5MIL	"	24,476	122	42	74
N5OT	"	11,115	89	46	71
N5ZK	21	63,852	236	25	77
W5OV	14	4	1	1	1
W6GPU/5	7	22,922	112	22	51
W5ZZ	3.7	8,140	122	10	34
K5RX	1.8	15,470	116	16	54
N5DO	A	508,625	584	96	229
W6DK	"	503,132	622	82	220
W5FGL	"	95,190	253	47	120
W5L15	"	76,160	204	40	100
K5EZL	"	54,864	152	49	95
K5DZEZ	"	50,700	146	58	92
N5DTT	"	7,865	57	25	40
K5DMM	"	7,632	51	21	32
K5DHY	"	5,605	41	23	36
A5TBL	"	5,225	45	24	31
W5DJNC	"	4,277	36	18	29
W5BZL	"	17,630	87	32	54
W5BZD	"	12,390	80	20	39
W5QLF	"	10,281	61	28	41
N5DTT	"	7,865	57	25	40
K5XRV	"	1,855	22	16	19
W5DMM	"	1,855	22	16	19
K5YPU	"	26,300	109	39	61
W5JEC	"	19,686	92	35	67
(OP: W5EX)					
N5DX	A	3,199,983	2286	135	402
N2IC/5	"	3,141,460	2244	137	395
K5ER	"	482,205	627	82	223
WA5ZUP	"	272,118	508	54	155
K5LAD	"	260,268	475	73	173
K5ZCJ	"	123,959	73	55	136
KD5GA	"	88,128	218	41	112
N1QX/5	"	77,818	260	38	108
WN5V	"	66,576	215	39	107
K7IA/5	"	61,200	215	41	95
N5RGV	"	50,050	205	46	97
K45ZQM	"	49,432	143	54	94
KD5JAA	"	41,328	151	48	75
W5MIL	"	24,476	122	42	74
N5OT	"	11,115	89	46	71
N5ZK	21	63,852	236	25	77
W5OV	14	4	1	1	1
W6GPU/5	7	22,922	112	22	51
W5ZZ	3.7	8,140	122	10	34
K5RX	1.8	15,470	116	16	54
N5DO	A	508,625	584	96	229
W6DK	"	503,132	622	82	220
W5FGL	"	95,190	253	47	120
W5L15	"	76,160	204	40	100
K5EZL	"	54,864	152	49	95
K5DZEZ	"	50,700	146	58	92
N5DTT	"	7,865	57	25	40
K5DMM	"	7,632	51	21	32
K5DHY	"	5,605	41	23	36
A5TBL	"	5,225	45	24	31
W5DJNC	"	4,277	36	18	29
W5BZL	"	17,630	87	32	54
W5BZD	"	12,390	80	20	39
W5QLF	"	10,281	61	28	41
N5DTT	"	7,865	57	25	40
K5XRV	"	1,855	22	16	19
W5DMM	"	1,855	22	16	19
K5YPU	"	26,300	109	39	61
W5JEC	"	19,686	92	35	67
(OP: W5EX)					
N5DX	A	3,141,460	2244	137	395
N2IC/5	"	482,205	627	82	223
K5ER	"	272,118	508	54	155
WA5ZUP	"	260,268	475	73	173
K5LAD	"	123,959	73	55	136
K5ZCJ	"	88,128	218	41	112
N1QX/5	"	77,818	260	38	108
WN5V	"	66,576	215	39	107
K7IA/5	"	61,200	215	41	95
N5RGV	"	50,050	205	46	97
K45ZQM	"	49,432	143	54	94
KD5JAA	"	41,328	151	48	75
W5MIL	"	24,476	122	42	74
N5OT	"	11,115	89	46	71
N5ZK	21	63,852	236	25	77
W5OV	14	4	1	1	1
W6GPU/5	7	22,922	112	22	51
W5ZZ	3.7	8,140	122	10	34
K5RX	1.8	15,470	116	16	54
N5DO	A	508,625	584	96	229
W6DK	"	503,132	622	82	220
W5FGL	"	95,190	253	47	120
W5L15	"	76,160	204	40	100
K5EZL	"	54,864	152	49	95
K5DZEZ	"	50,700	146	58	92
N5DTT	"	7,865	57	25	40
K5XRV	"	1,855	22	16	19
W5DMM	"	1,855	22	16	19
K5YPU	"	26,300	109	39	61
W5JEC	"	19,686	92	35	67
(OP: W5EX)					
N					

*WJ5DX	"	4,902	49	13	30	*KB7KLT	"	33,372	144	42	66	*W9VO	"	59,092	162	51	107	VE2DC	"	352,444	463	81	211	*HO9R	7	87,932	534	19	57	(OP: WQ7R)
*W6HH/5	3.7	1,470	22	13	17	*KB7LJP	"	33,165	153	35	64	*KOPY	"	40,680	132	37	83	*VE2XAA	A	778,312	895	85	274	Martinique						
N6TJ	A	2,125,669	1650	137	360	*W7KAM	"	26,000	122	41	79	*W9UM	"	40,480	138	36	79	*VA2WD	"	82,775	188	51	124	FM5AN	A	554,990	1042	71	159	
WC6H	"	1,544,018	1467	114	292	*AATDK	"	24,465	91	39	66	*N9MSG	"	31,080	118	37	68	*VA2RIO	"	42,665	153	38	77	*T08Z	A	1,412,232	1848	91	270	(OP: VE2AWR)
K6XX	"	1,014,300	1145	105	240	*K7PWL	"	22,050	135	32	58	*K9CDW	"	27,966	113	45	73	*CK2AWR	"	34,464	164	32	64	*FM1HN	21	105,633	590	25	72	(OP: VE3TG)
K16CG	"	356,900	634	68	47	*W7VS	"	18,328	91	33	46	*N9OK	"	16,684	83	29	55	*VE2AOX	"	1,350	29	11	16	Honduras						
N6IF	"	324,399	569	77	136	*K7DX	"	12,118	77	31	42	*K9SOL	"	14,444	91	34	58	*VA2OU	"	300	20	7	8	Niger						
K6LRN	"	115,362	288	47	106	*W7OZ	"	11,466	80	27	36	*K9QQ	"	8,118	57	25	41	*VA2SG	14	80,640	335	19	77	Niger						
K6LAO	"	75,922	202	63	1	*K6WV7	"	10,080	69	24	46	*N9BT	"	5,974	53	25	33	*VE3EJ	A	6,472,174	4230	139	475	XE2S	A	874,212	1650	86	177	
WB6JJU	"	73,698	241	52	90	*W7AMJ	"	9,100	83	22	30	*N9WK	"	3,600	40	18	22	*CK3AT	"	5,577,291	3996	123	426	XE1YJS	"	392,229	1056	61	138	
N6KA	"	38,800	152	31	66	*K7F9W	"	8,932	71	27	17	*K9GZB	"	2,240	25	13	22	*VE3CX	"	2,149,941	239	106	305	XE1YD	"	18,414	93	35	58	
K6UWU	"	37,752	144	37	67	*K6JM7	"	8,415	63	21	30	*K9AH	"	1,920	28	13	19	*VE3X	"	793,450	851	98	252	XE1CWJ	14	212,245	1363	24	61	
NR3Y6	"	25,647	125	29	54	*W7UR	"	7,847	69	19	40	*W9RY	"	1,118	29	13	13	*VA3DX	"	676,863	700	109	278	XE1MM	"	43,268	356	17	41	
K6QB	"	25,152	120	44	52	*W7GM7	"	6,731	58	23	30	*N9NV	"	77	4	3	4	*VE3Y	"	563,745	1137	11	174	XE1GR	A	138,908	545	46	75	
AJ6J	"	22,881	108	31	56	*W7V	"	6,280	67	21	19	*K9BYG	"	8	2	2	2	*VE3TA	"	436,756	644	73	201	XE1NW	"	93,690	313	44	91	
K6ZNC	"	10,788	72	30	32	*W7F7K	"	5,292	43	19	40	*W9LY	21	30,877	149	19	58	*VE3Z	21	307,457	937	29	102	XE1MX	"	75,032	238	55	111	
K6ST	"	8,178	66	22	36	*KN7Z	"	4,563	40	19	20	*K9JR	14	3,822	42	11	28	*VE3FP	"	34,350	160	18	57	XE2AUB	"	51,450	229	42	63	
KY6LA	"	5,130	52	23	22	*W7SUR	"	4,343	57	17	26	*K9K	"	1,920	28	13	19	*VE3R	7	71,196	312	24	78	XE2HWB	28	1,926	40	7	11	
AD6KA	"	3,696	40	18	24	*KD7RHI	"	4,094	84	21	25	*K9RF	A	1,883,056	1646	130	346	*VE3XH	"	5,593	245	26	67	XE1CT	21	38,955	352	19	34	Panama
K6JAT	21	20,650	130	20	39	*N7BAN	"	3,154	39	19	25	*W9VO	"	75	206	*VE3BN	3.7	25,330	447	13	21	*VE1BY	14	188,180	962	24	73			
W6SZN	"	15,000	107	18	42	*N7WI	"	2,916	33	17	19	*K9OU	"	398,458	594	75	206	*VE3V	"	54,136	438	14	53	*XE1AY	3.7	244,200	996	28	92	
W0YK6	14	269,360	807	31	99	*KD7DCR	"	2,448	24	15	21	*K9OTG	"	290,604	522	68	176	*VE3DZ	A	2,109,028	2049	92	320	*VE3CD	"	1,639,760	1820	93	305	
K6HNZ	"	207,879	615	32	101	*W7YVK	"	1,891	23	14	17	*K9PK	"	233,481	465	59	164	*VE3NE	"	1,639,760	1820	93	305	*VE3FD	A	39,652	161	31	61	Puerto Rico
W6AFA	"	153,289	483	30	97	*K7E10	"	1,519	45	14	17	*K9KF	"	192,780	316	67	171	*VE3J	"	51,280	746	74	214	*VE1PFTD	A	39,652	161	31	61	
W6RBA	"	8,085	71	16	39	*W4LSC7	"	1,488	20	14	17	*AB0RX	"	173,888	389	46	130	*VE3JO	"	432,456	867	62	160	*VE1PRTS	28	7,140	89	10	18	
W6MW	"	2,772	37	15	29	*K7OMM	"	1,210	22	14	16	*NOCB	"	172,000	322	59	156	*VA3SWG	"	352,590	778	62	157	*VE1PDS	"	145	16	5	5	
K6NA	7	183,147	560	31	92	*W7VGH	"	1,150	20	11	12	*NOKK	"	124,936	269	63	131	*VE3V	"	230,464	431	54	154	*VE1BYHS	21	141,024	902	23	55	
K5T7/6	"	31,150	134	23	66	*AD7KQ	"	1,012	23	11	11	*WOBH	"	108,225	231	45	140	*VE3KPP	"	166,284	484	40	109	*VE1PAXS	"	84	5	3	4	
K6AAB	"	15,602	202	21	37	*KD7RUS	"	775	28	17	14	*KS0T	"	107,730	269	56	115	*VE3AD	"	161,964	327	50	142	*VE1PDCP	"	3,042	61	12	27	
N2NS/6	"	8,568	63	20	36	*NALS7/	"	377	11	6	7	*K9WMW/0	"	107,730	269	56	115	*VE3X	"	23,300	105	35	65	*VE1PDT	A	39,652	161	31	61	
*N6RV	A	173,250	357	69	141	*NB7N	"	360	23	11	9	*W0Z0	"	107,156	254	52	120	*VE3XO	"	154,836	333	59	139	*VE1PTE	"	84	5	3	4	
AA6K	"	127,050	293	56	119	*K9OG7/	"	15	4	3	2	*W0KP	"	101,480	249	53	119	*VE3J	"	142,200	351	40	110	*VE1PBY	21	141,024	902	23	55	
WN6K	"	96,922	238	61	100	*W7UPF	21	36,456	173	21	63	*K9HB	"	96,268	227	44	120	*VE3EL	"	86,592	270	48	116	*VE1PAXL	14	13,056	107	14	37	
AF6EV	"	75,010	221	48	82	*KC7V	"	29,025	139	25	50	*K0BUD	"	49,362	191	31	83	*VE3TU	"	46,764	288	40	86	*VE1PDCP	"	3,042	61	12	27	
K6TV	"	60,333	211	40	79	*W7FP	14	96,432	306	30	93	*K0JJR	"	42,294	144	36	78	*VE3BAV	"	57,460	174	43	87	*VE1PDT	"	87,250	38	2	3	
N6IEF	"	53,710	202	42	89	*AD7KQ	"	726	20	11	11	*W0CP	"	38,306	137	80	91	*VE3XAT	"	52,716	156	43	95	*VE1PNTK	"	15,483	333	20	36	
KD4HXT/6	"	49,980	172	45	74	*KC7H	"	713	37	12	11	*K0GAS	"	32,214	132	38	80	*VA3TPS	"	46,360	159	38	84	*VE1PNTK	"	23,857	215	25	36	
K6SHL	"	4,246	129	48	73	*W7WA	"	157,874	304	53	140	*K0XTR	"	1,675	78	11	14	*VE3MCF	"	1,200	23	10	15	*VE1PNTK	"	87,250	38	2	3	
N6RZR	"	11,685	89	24	33	*N9RC/8	"	147,492	296	53	151	*K0IZ	14	130,683	439	28	99	*VE3AJ	"	209	10	6	5	*VE1PNTK	"	87,250	38	2	3	
K6DEX	"	9,234	72	22	35	*K8ESO	"	108,585	254	41	130	*K0PK	"	92,773	300	26	87	*VE3PL	"	13,000	99	15	35	*VE1PNTK	"	87,250	38	2	3	
N6SPB	"	7,182	51	24	30	*K8MF	"	76,464	179	50	112	*W0PFP	"	23,075	124	17	54	*VE3XD	14	386,400	1108	29	111	*VE1PNTK	"	80,556	218	45	102	
AF7K6	"	6,254	56	25	28	*WB7MF	"	66,156	181	46	10	*W0GJ	7	53,476	196	28	88	*VE3W4TAA	"	103,808	336	27	101	*VE1PNTK	"	46,610	290	32	47	
K6RM	"	2,808	31	16	20	*W0GVM	"	12,118	66	25	48	*W0HBT	"	12,118	66	25	48	*VE6AD	"	7,987	80	23	26	*VE1PNTK	"	17,640	21	16	31	
K16GV	"	2,580	48	14	16	*W0JGU	"	6,1854	190	28	94	*W0S	"	10,780	79	24	46	*VE6EX	A	808,056	1984	70	146	*VE1PNTK	"	17,640	21	16	31	
NA6G	"	2,546	30	19	19	*W7B7T	"	4,250	161	33	88	*W0R	"	10,153	65	25	46	*VE6CPU	A	58,651	364	36	53	*VE1PNTK	"	17,640	21	16	31	
*N5K0/6	"	2,320	34	14	15	*WB7TLI	"	32,045	470	64	189	*W0S0Z	"	3,645	40	19	23	*VE7FX												

E77XZ	"	764,596	2485	36	130	[OP: DK6XZ]	OZ1ACB	*	42,036	220	34	90	RL6YXX	*	8,533	88	19	34	[OP: UA6YN]	R8A3DGH	*	7,544	93	14	27	*F8CGL	7	29,164	260	16	76
*E74AA	A	873,445	1980	74	279	[OP: ZG5AJ]	OZ1KKH	*	39,156	162	35	121	RZ3DA	*	3,240	38	18	27	[OP: VR3OQ]	R8W4LQD	*	7,400	56	19	31	*F5VLV	1.8	8,772	211	5	46
*E72UJ	"	74,094	353	36	123	[OP: Z7DK]	OZ1CJS	*	14,104	108	25	57	RK6CM	*	2,052	41	9	27	[OP: RU3PU]	R8U3P3	*	3,315	39	15	27	DJ8OG	A	3,488,496	3175	123	405
*E79D	7	74,130	552	21	84	[OP: D4RT]	OZ1EN	*	4,230	74	13	32	UA3BM	*	1,887	29	14	23	[OP: UA3AAP]	R8U3P3	*	1,608	32	10	14	D4PT	"	2,747,430	2371	123	405
*E74WN	3.7	7,280	125	8	44	[OP: Z1DGQ]	OZ1DFM	*	3,363	54	16	41	RA3ADAM	*	1,720	39	13	30	[OP: UA1AQO]	R8U3P3	*	111,665	666	28	87	DL5AWI	"	851,129	1065	101	308
Bulgaria																															
LZ3FN	A	552,330	1008	82	279	[OP: Z1XV]	OZ1XV	14	9,792	143	13	38	RV6LJK	21	130,782	618	32	110	[OP: RX3WZ]	R8A4WCM	*	59,384	409	24	80	DL2F	"	671,560	1458	80	246
LZ1BJ	"	423,844	997	68	203	[OP: Z7ADZ]	OZ1ADZ	*	2,688	78	7	25	RW6FO	*	59,431	439	26	77	[OP: ZU3SE]	R8U3P3	*	53,105	386	23	72	DK3W	"	625,356	1112	86	262
LZ1NK	"	352,458	952	73	248	[OP: Z1CJS]	OZ1CJS	7	10,030	131	12	47	RU6MD	*	23,856	121	25	59	[OP: ZN4HA]	R8U3P3	*	51,100	311	23	27	[OP: DL6MHW]	"	2,747,430	2371	123	405
LZ2JR	"	109,395	308	58	129	[OP: Z1JVX]	OZ1JVX	*	5,566	82	9	37	RL3AF	*	20,940	168	20	40	[OP: RW6AH]	R8U3P3	*	48,804	406	18	65	DJ3H	"	42,441	931	73	243
LZ9V	"	56,028	381	24	68	[OP: Z7TTT]	OZ7TTT	1.8	924	43	2	20	RZ1ZZ	14	378,615	1686	30	99	[OP: RU3TC]	R8U3P3	*	24,024	196	16	62	DL9GW	"	506,664	790	88	284
LZ1NG	28	2,840	43	13	27	[OP: Z1XV]	OZ1XV	*	304	23	7	9	UA1ORK	*	187	10	7	10	[OP: RX3WZ]	R8A4WCM	*	77,376	491	23	81	DL5AN	"	811,536	985	100	364
LZ2G	14	522	13	8	10	[OP: Z1XV]	OZ1XV	*	522	13	8	10	UA1ORK	*	187	10	7	10	[OP: RX3WZ]	R8A4WCM	*	67,376	491	23	81	DL2F	"	671,560	1458	80	246
LZ5K	7	250,905	1446	30	99	M6T	A	5,864,868	4718	137	469	England	RN300	*	266,862	1244	32	126	[OP: G4P10]	R8A4WCM	*	7,544	93	14	27	DJ8OG	A	3,488,496	3175	123	405
*LZ2HN	A	198,628	496	65	189	[OP: Z1XV]	OZ1XV	*	13,972	143	13	38	RV6LJK	21	130,782	618	32	110	[OP: RX3WZ]	R8A4WCM	*	59,384	409	24	80	DL4PT	"	625,356	1112	86	262
LZ5XO	"	128,472	384	50	152	[OP: Z1XV]	OZ1XV	*	2,688	78	7	25	RW6FO	*	59,431	439	26	77	[OP: ZU3SE]	R8U3P3	*	53,105	386	23	72	DK3W	"	625,356	1112	86	262
*LZ1ND	"	24,776	263	25	51	[OP: Z1XV]	OZ1XV	*	10,030	131	12	47	RU6MD	*	23,856	121	25	59	[OP: ZN4HA]	R8U3P3	*	51,100	311	23	27	DL5AN	"	2,747,430	2371	123	405
LZ3TL	"	4,810	81	19	46	[OP: Z1XV]	OZ1XV	*	382,782	993	62	200	UA3BL	*	4,644	66	14	40	[OP: RU3TC]	R8U3P3	*	22,572	222	15	51	DJ3H	"	42,441	931	73	243
*LZ1OKN	"	748	22	9	13	[OP: Z1XV]	OZ1XV	*	363,676	964	65	203	RW6ATJ	7	20,945	184	18	53	[OP: RU3TC]	R8U3P3	*	11,210	163	10	49	DL9GW	"	506,664	790	88	284
*LZ9X	14	299,452	1129	38	134	[OP: Z1XV]	OZ1XV	*	307,802	811	46	141	RA6EE	*	12,139	151	12	49	[OP: RX3WZ]	R8A4WCM	*	15,600	150	16	59	DL1MAJ	"	390,634	579	79	267
*LZ2IA	"	135,585	878	27	88	[OP: Z1XV]	OZ1XV	*	267,472	601	61	168	RX3MA	3.7	5,251	69	10	49	[OP: RX3WZ]	R8A4WCM	*	10,600	122	13	37	DL1RG	"	331,749	620	77	220
*LZ2HR	"	108,108	634	27	90	[OP: Z1XV]	OZ1XV	*	115,478	411	50	131	UA3BS	1.8	17,686	216	12	62	[OP: RX3WZ]	R8A4WCM	*	10,065	131	11	44	DL1PAW	"	309,036	410	96	268
*LZ6W	"	59,488	372	24	80	[OP: Z1XV]	OZ1XV	*	73,305	311	48	133	RV4HC	A	5,864,868	4718	137	469	[OP: G4P10]	R8A4WCM	*	3,276	65	9	33	DL7DZ	"	287,352	625	75	232
*LZ1PSH	"	1,763	91	9	34	[OP: Z1XV]	OZ1XV	*	69,774	245	47	127	UA4FRL	*	486,050	1035	90	320	[OP: RX3WZ]	R8A4WCM	*	1,218	57	8	25	DF900	"	271,975	599	63	212
*LZ1DM	3.7	45,567	453	13	70	[OP: Z1XV]	OZ1XV	*	20,130	159	25	85	RV6LFE	*	486,513	989	74	259	[OP: RX3WZ]	R8A4WCM	*	13,359	208	9	52	DL9E0	"	268,804	577	66	202
*LZ2DF	1.8	1,118	40	5	21	[OP: Z1XV]	OZ1XV	*	6,850	156	10	40	RN4SN	*	4,212,96	542	101	301	[OP: RX3WZ]	R8A4WCM	*	225	19	3	12	DL6R8O	"	145,400	487	50	150
Crete																															
SV9CVY	A	6,784,912	6649	124	504	[OP: Z1XV]	OZ1XV	*	37,333	272	19	93	RA6GW	*	282,040	794	56	164	[OP: TA1HZ]	R8A4WCM	*	1,049	161	16	84	DJ4QO	"	64,480	259	39	116
SV9GPV	14	409,045	2324	38	107	[OP: Z1XV]	OZ1XV	*	2,628	53	8	28	UA3JNP	*	233,142	534	67	206	[OP: G4OJFV]	R8A4WCM	*	1,017	145	100	13	DL3Y4	"	61,272	205	42	96
*SV9COL	A	186,144	440	71	206	[OP: Z1XV]	OZ1XV	*	301,171	730	64	218	UA1CUR	*	196,588	690	50	186	[OP: TA1HZ]	R8A4WCM	*	1,052	152	57	19	DK7AN	"	60,960	215	45	82
Croatia																															
9A3KS	A	40,749	209	34	107	[OP: Z1XV]	OZ1XV	*	12,710	525	13	50	RA4HFE	*	144,900	361	53	154	[OP: YO9R]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
9A5D	28	17,136	226	13	50	[OP: Z1XV]	OZ1XV	*	14,440	144	51	182	RA4HFE	*	141,303	538	49	152	[OP: YO9R]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
9A5W	21	647,640	1619	38	142	[OP: Z1XV]	OZ1XV	*	82,236	231	51	180	UA6HHE	*	138,125	565	41	180	[OP: OH8X]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
9A5MT	"	290,450	858	34	132	[OP: Z1XV]	OZ1XV	*	18,685	146	23	78	RV3YR	*	83,997	289	52	131	[OP: OH1TC]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
9A4D	7	180,858	1094	26	103	[OP: Z1XV]	OZ1XV	*	15,571	352	48	145	RA4HFE	*	80,510	345	39	127	[OP: Z1XV]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
9A7KD	"	9,063	97	19	34	[OP: Z1XV]	OZ1XV	*	5,859	79	17	46	RD3BY	*	182,979	557	56	187	[OP: Z1XV]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
9A7KDT	"	4,851	54	21	42	[OP: Z1XV]	OZ1XV	*	3,226	13	2	4	RW6DU	*	197,475	152	10	43	[OP: Z1XV]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
9A6C	"	2,596	52	14	30	[OP: Z1XV]	OZ1XV	*	3,555	94	14	49	RV3WF	*	48,020	243	35	105	[OP: Z1XV]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
*9A3B	21	252,408	709	35	121	[OP: Z1XV]	OZ1XV	*	4,660	82	16	50	RW6LJK	*	17,515	226	32	113	[OP: Z1XV]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
*9A4BB	14	11,704	142	14	42	[OP: Z1XV]	OZ1XV	*	2,451	59	9	34	RW6LJK	*	16,376	220	32	113	[OP: Z1XV]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97
*9A2GA	3.7	5,796	133	6	40	[OP: Z1XV]	OZ1XV	*	2,107	60	13	30	RW6LJK	*	16,376	220	32	113	[OP: Z1XV]	R8A4WCM	*	1,049	123	100	27	DL5ST	"	68,730	248	48	97

DK1TS		32,670	191	32	78	HABTI	*	51,538	165	45	101	*I2BZN	*	14,196	161	15	63	EROWW	A	5,517,720	5387	131	454	S06I	A	761,915	1337	86	299	
DL1VJL		30,800	141	37	63	HA1YI	21	155,375	554	32	92	*IW4ENR	*	12,780	113	22	49	(OP: RL3FT)		552,770		1019	87	247	SP3LPG	"	552,770	1019	87	247
DK9VA		30,500	155	32	90	HA6FO	*	49,959	227	30	87	*IK2IKW	*	12,628	104	25	57	(OP: ER2BF)		415,200		1025	74	226	SN5G	"	415,200	1025	74	226
DJ6UP		30,210	196	32	82	HA1TXN	3.7	60,204	594	16	71	*IK5PVX	*	12,402	99	26	52	(OP: SP5ITF)		121,540		577	52	154	ER2KRT	"	121,540	577	52	154
D01CS		28,896	199	25	71	HB8BE	1.8	81,506	915	13	70	*I2HZA	*	12,024	100	23	49	(OP: SP5ITF)		130,255		304	69	170	HA1TEC	"	130,255	304	69	170
DA6TEC		28,770	248	23	82	*HB8EV	A	199,892	661	53	183	*I1YGO	*	11,550	124	20	57	ER5GB	14	36,207	314	20	61	SP1O	"	130,255	304	69	170	
D09PL		28,662	246	18	84	*HB7YS	"	118,734	466	50	181	*IK1WEQ	*	11,392	96	23	41	*ER3CT	A	68,182	295	40	106	SP1MVG	"	122,640	295	40	106	
DG60AG		28,167	194	30	93	*HB8LLK	*	77,649	392	44	99	*I2DDII	*	10,864	82	23	33	*ER5FB	14	9,984	58	28	59	SP1MVG	"	121,540	577	52	154	
DL9GTB		27,880	179	26	56	*HA3OU	*	66,750	242	44	134	*I1XALR	*	10,005	128	12	57	*ER6XK	7	37,107	343	17	76	SP1VQ	"	114,642	295	54	144	
DM3KZN		27,178	186	37	90	*HG3FMZ	*	29,100	211	28	72	*I2OFVL	*	9,215	76	25	70	*ER0FEO	3.7	15,296	223	9	55	SP2JMR	"	100,510	259	57	173	
DL4AC		26,950	219	28	82	*HA2MM	*	8,246	96	18	44	*IK8LXI	*	9,198	87	26	47	*ER2RM	1.8	22,400	313	9	55	SP2JMR	"	55,131	338	31	110	
DL5JH		26,883	205	26	77	*HG4F	14	214,953	1003	31	106	*I2TGLL	*	7,007	60	20	29	(OP: SP4CIP)		46,004		365	25	99	SP3PBY	"	46,004	365	25	99
DF3IS		25,947	160	22	71	*HA1VE	*	14,592	160	18	39	*I2A1OD	*	6,760	99	18	47	(OP: SP4CIP)		33,782		194	31	96	TF3G	A	70,686	486	29	125
DL6DBY		24,102	187	21	82	*HA1VE	*	14,592	160	18	39	*I2V3DP	*	6,700	83	21	46	*I2T7EB	*	7,005	85	35	18	SP3RBC	"	15,236	99	26	82	
D01HGS		23,364	172	29	89	*HA7MW	*	7,535	70	12	43	*I2F6U	*	6,699	51	33	44	*I2F6U	*	6,699	51	33	44	SP3RBC	"	6,555	88	17	52	
D03ME		23,320	143	27	61	*HA5OFN	*	624	37	7	19	*I2F6U	*	5,022	73	16	38	*I2F6U	*	5,022	73	16	38	SP3RBC	"	5,022	73	16	38	
D08TB		22,842	196	22	72	(OP: DL9RE)		22,200		198		*IN3IPY	*	4,131	78	14	37	(OP: IN3UFW)		33,782		194	31	96	Iceland	*	33,782	194	31	96
D09RE		22,448	170	23	69	(OP: DL9RE)		22,200		198		(OP: DL9RE)		(OP: DL9RE)		(OP: DL9RE)		(OP: DL9RE)		(OP: DL9RE)		(OP: DL9RE)		(OP: DL9RE)		(OP: DL9RE)		(OP: DL9RE)		
D055AWE		21,312	192	20	76	TF3Y	21	59,092	503	17	51	*ICBSC	*	3,572	37	20	27	*PA3AAV	A	1,267,266	1772	97	365	PA0JUM	"	836,800	2156	75	245	
D07DU		21,070	206	17	81	*TF8GX	14	103,250	648	26	92	*I2N3VR	*	3,388	55	15	28	*PA0JNH	"	446,188	830	73	264	PA0JNH	"	446,188	830	73	264	
DF8TI		20,800	139	23	77	(OP: DL9RE)		(OP: DL9RE)		(OP: DL9RE)		*I2K4HH	*	3,162	51	11	20	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51	
DH0SP		19,412	198	20	72	(OP: DL9RE)		(OP: DL9RE)		(OP: DL9RE)		*I2K5JK	*	3,096	40	15	28	*PA0JNH	"	26,677	110	33	70	PA0JNH	"	26,677	110	33	70	
DL1DXF	18,832	127	31	76	TF1FV	A	152,995	380	45	140	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	33,582	182	20	67	PA0JNH	"	33,582	182	20	67		
DL9WG	18,690	119	28	77	EI4JD	*	40,250	261	26	99	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DL7UXG	17,820	161	22	68	EI4DW	*	17,800	99	31	58	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DL4EBW	17,100	132	25	70	EI2C	21	309,504	1104	30	94	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DL7VRG	16,826	124	25	69	EI9HK	14	494,356	172	34	112	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DF2FM	16,740	112	28	80	EI6JK	7	145,537	860	24	95	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DM3PKK	16,038	99	24	42	*E14GX	A	240,673	594	57	182	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DL1FD	15,688	102	23	51	*EI1/NEI	*	121,792	520	34	139	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
D01SAJ	14,706	107	24	62	*EI7CC	*	105,092	438	40	132	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DC0AS	14,615	169	19	60	*EI5JB	*	59,792	357	31	117	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DB7TF	14,529	145	17	70	*EI3NB	*	59,792	357	31	117	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
D01MGN	13,206	171	15	56	*EI5GPB	*	55,404	252	39	123	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DL3SCN	13,090	113	21	64	*EI4GAB	*	8,833	103	18	55	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DL3YEE	13,083	103	31	58	*EI4CF	21	111,666	610	26	85	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
D56AP	12,879	111	26	55	(OP: DF6F)		(OP: DF6F)		(OP: DF6F)		(OP: DF6F)		(OP: DF6F)																	
D01DJJ	5,160	71	17	26	I1A4M	*	95,570	316	55	135	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DL6WNA	4,700	59	16	34	I3A3E	3.7	140,888	1104	21	98	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
D01CDE	4,682	181	25	69	I3L3JL	*	73,344	307	54	138	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DL6UAM	4,136	66	13	31	I1O5SP	*	67,125	399	36	143	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51	PA0JNH	"	21,528	121	27	51		
DF5KT	3,906	84	15	47	I1O5DU	*	62,208	219	44	100	*I2KWFN	*	2,752	37	20	27	*PA0JNH	"	21,528	121	27	51								

*SP9IBJ	*	7,938	102	12	42	YU1EL	14	1,012,044	2639	39	148	E2RCF	*	33,936	286	21	63	*EA2MA	*	589	30	4	15	UTSUKY	*	30,000	151	35	85
*SP3YM	*	5,200	44	17	23	YT1BB	*	663,425	2218	38	137	E3R	14	491,849	1806	35	114	*EA4IS	3.7	18,864	200	11	61	URTHCX	*	26,355	217	25	80
*SO6LJA	*	2,201	69	7	24	YU5M	*	127,456	299	21	14	E4T	*	489,212	1974	32	125	*EA5RU	1.8	1,520	43	9	29	USSISV	*	24,480	55	29	91
*SP3DRM	*	1,364	29	9	22	YU8NU	*	19,734	198	17	49	E4T	*	6,576	92	11	37	*EA1VC	*	81,480	303	41	127	UVSEEO	*	21,109	171	27	74
*SO6V	7	147,576	961	24	105	YT8A	7	1,030,032	3276	37	147	AM1C	7	54,560	362	23	87	(OP: YU1EA)	*	1,076,325	1381	85	296	UT4OQ	*	20,502	190	35	99
*SP1I	*	44,574	200	22	92	YT1VP	*	253,735	1131	32	123	E5KA	1.8	23,544	322	10	62	*SM6U	*	949,878	1236	81	259	UY9LM	*	18,117	99	29	70
*SP9GML	*	21,215	167	21	66	YT5Z	1.8	14,755	233	10	55	E4T	*	13,680	220	12	59	*SM7CQY	*	138,600	408	47	151	US2YW	*	16,632	103	33	66
*SP9ROH	*	15,840	146	16	66	YT1HA	A	963,553	1793	87	302	E4B	*	216	22	6	19	*SM6BG	*	99,264	403	39	102	UT2AB	*	13,230	110	31	74
*SP3VT	*	9,936	196	10	44	YU1OT	*	251,988	699	61	188	E4T	A	942,400	1569	87	313	*SI3A	*	81,480	303	41	127	UTRSWHT	*	13,167	132	26	73
*SO2GXO	*	5,940	83	11	43	YU1CC	*	139,375	442	47	176	E4T	*	6,576	92	11	37	(OP: EA1JT)	*	1,076,325	1381	85	296	UR5WDQ	*	13,158	150	20	66
*SP9DTE	*	2,627	53	9	28	YT3AA	*	51,600	231	37	92	E4T	*	641,592	851	88	311	(OP: EA1NT)	*	1,076,325	1381	85	296	UT5E	*	13,041	96	28	53
*SN9P	3.7	54,777	461	16	77	YT1IV	*	11,550	142	17	53	E4T	*	641,592	851	88	311	(OP: EA1NT)	*	1,076,325	1381	85	296	(OP: UR5EDX)	*	11,120	110	22	58
*SP4DEU	*	38,380	499	13	63	YT1UNE	*	8,584	92	21	53	E4T	*	344,190	682	72	226	(OP: EA1NS)	*	1,076,325	1381	85	296	UY3LW	*	16,632	103	33	66
*SP4SHD	*	35,945	371	13	66	YT2DRA	*	8,584	92	21	53	E4T	*	344,190	682	72	226	(OP: EA1NS)	*	1,076,325	1381	85	296	UT7ML	*	11,008	100	16	48
*SP9JZT	*	30,733	414	10	63	YT2MSM	*	8,684	107	12	40	E4T	*	255,117	906	58	219	(OP: EA1NS)	*	1,076,325	1381	85	296	UT0EO	*	9,628	244	27	89
*SN3B	*	24,128	393	8	56	YT2MSM	*	5,220	97	10	35	E4T	*	242,471	534	64	225	(OP: EA1NS)	*	1,076,325	1381	85	296	UY4JC	*	5,690	53	19	21
*SO2RCB	*	10,887	195	7	50	YT1NSK	*	3,738	42	18	24	E4T	*	223,920	583	61	179	(OP: EA1NS)	*	1,076,325	1381	85	296	US6CO	*	2,750	47	18	37
*SP3CY	*	10,140	12	52	YT1NSK	*	3,738	42	18	24	E4T	*	183,568	580	43	133	(OP: EA1NS)	*	1,076,325	1381	85	296	UT7HM	*	180	32	13	23	
*SO9MEI	*	8,600	166	6	44	YT2T	7	178,750	921	32	111	E4T	*	1,076,325	1381	85	296	UY3LW	*	15,080	150	20	66						
*SP8OOB	*	3,589	103	6	31	YT2T	*	19,593	283	8	55	E4T	*	1,076,325	1381	85	296	UT5E	*	13,041	96	28	53						
*SO4INW	*	2,173	73	6	35	YT2YZ	3.7	37,920	414	12	68	E4T	*	145,842	353	55	163	(OP: EA1NS)	*	1,076,325	1381	85	296	UY3LW	*	16,632	103	33	66
*SP7KKX	*	1,953	65	5	26	YT2YZ	*	19,593	283	8	55	E4T	*	126,724	455	50	154	(OP: EA1NS)	*	1,076,325	1381	85	296	UY3LW	*	16,632	103	33	66
*SO5IZX	*	1,922	65	7	24	Shetland Islands															(OP: SM5CB)								
*SP5CIB	*	1,260	36	4	26	GZOF	A	1,152,872	2151	88	304	E4T	*	119,116	572	50	144	(OP: SM5CB)	*	1,076,325	1381	85	296	UY3LW	*	15,080	150	20	66
*SP2ACA	*	532	30	3	16	YT1NSK	*	5,220	97	10	35	E4T	*	117,031	240	22	66	(OP: SM5CB)	*	1,076,325	1381	85	296	UY3LW	*	15,080	150	20	66
*SP4XON	1.8	52,591	647	13	64	YT1NSK	*	5,220	97	10	35	E4T	*	115,117	240	22	66	(OP: SM5CB)	*	1,076,325	1381	85	296	UY3LW	*	15,080	150	20	66
*SP5CJY	*	12,960	208	8	52	YT2T	7	178,750	921	32	111	E4T	*	113,088	240	22	66	(OP: SM5CB)	*	1,076,325	1381	85	296	UY3LW	*	15,080	150	20	66
*SP5PSL	*	8,085	185	7	42	YT2T	*	178,750	921	32	111	E4T	*	111,048	240	22	66	(OP: SP5JKX)	*	1,076,325	1381	85	296	UY3LW	*	15,080	150	20	66
Portugal		981,050	2907	38	137	(OP: OK1RP)														(OP: SM5CB)									
CT1JLZ	14	3,446	98	6	30	(OP: CT1CJU)														(OP: SM5CB)									
CT1EWA	3.7	2,405,340	2766	92	328	(OP: CT1CJU)														(OP: SM5CB)									
*CT8K	A	2,405,340	2766	92	328	(OP: CT1CJU)														(OP: SM5CB)									
Romania																													
Y03RU	A	445,544	955	80	252	YT1RVJ	21	75,260	424	27	79	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
Y07FB	*	104,372	403	44	150	YT1RVJ	21	75,260	424	27	79	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
Y09FWX	*	87,020	289	48	142	YT1RVJ	14	34,131	364	25	68	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
Y07LGI	*	14,670	123	22	68	YT1RVJ	7	2,700	97	11	39	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
Y02R	21	67,023	307	29	70	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
Y09CWY	14	30,342	247	17	61	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
*Y03CZW	*	443,648	146	84	272	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
*Y03FRI	*	509,992	101	86	298	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
*Y03QED	*	218,824	612	51	187	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
*Y07HAG	*	121,900	452	46	166	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
*Y07MT	*	101,871	428	46	143	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
*Y07MFT	*	101,871	428	46	143	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
*Y09AGC	*	92,928	492	34	142	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
*Y08PPY	*	92,732	347	43	151	YT1RVJ	*	29,419	251	19	54	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66	E4T	*	13,690	240	22	66
*Y02MIL	*	84,513	273	55</																									

*YB0MJY	*	79,275	216	46	105	PY6HD	*	122,760	510	26	84	ORP	*	4,223	98	5	36	K3PK	*	680,414	696	84	287
*YCFEF	*	76,329	305	32	67	PY6PRS	*	39,800	243	28	72	Y80	A	549,280	872	87	273	DF7LS	*	744	37	3	21
*YB0EIN	*	67,942	176	63	98	PR7AR	14	131,328	566	24	74	KR2O	*	469,440	606	65	215	E77J	3.7	13,593	201	10	49
*YB0JK	*	63,928	206	38	84	PV8DX	7	275,643	847	28	95	F5BEG	*	462,561	848	68	253	(OP: YU2EA)					
*YB0KYM	*	25,696	116	31	57	PP5TR	*	28,786	225	24	50	OK2BYW	*	363,216	712	72	250	S59D	*	13,393	200	10	49
*YC2USI	*	15,405	136	17	48	PY5OW	*	6,118	100	14	32	OM7DX	*	320,390	645	79	243	H6A1AM	*	13,260	229	7	53
*YC0JEM	*	5,742	46	23	35	PY2RDA	*	270	25	8	10	UA6ALPY	*	306,636	583	21	232	M3RCV	*	11,395	206	8	45
*YB1LUN	28	987	19	9	12	PY2WC	3.7	1,218	23	12	17	JR4DAH	*	249,980	504	70	150	I3IBL	*	8,150	166	6	44
*YC50UB	21	69,144	292	24	62	PY3DX	A	1,039,896	1485	87	199	Y80WW	*	249,980	504	80	210	SP2QOT	*	6,164	153	5	41
*YB1AQD	*	3,645	32	17	28	PY7X7A	*	977,142	1256	77	221	N0KE	*	237,120	416	71	169	U9AUHN	*	2,788	39	12	22
*YB0COU	*	2,880	27	15	25	PY5IV	*	281,580	706	59	97	J2DLM	*	202,275	451	67	194	UT5UPN	*	2,324	77	6	22
*YF0EEF	*	2,501	39	17	24	PY2EJ	*	200,560	404	64	154	ND0C	*	169,845	348	75	126	JF2MBF	*	1,560	28	10	14
*YC2VRG	*	2,024	43	19	27	PP5M0	*	33,840	188	36	58	OM9NW	*	355,397	321	51	151	D03SH	*	1,410	62	4	26
*YC0MMW	*	540	15	8	12	PY3OL	*	30,738	127	37	72	KAT1LR	*	140,130	313	57	148	SP5EWX	*	918	39	5	22
*YB1UUN	28	987	19	9	12	ZV2A	*	200,377	614	50	101	DF1DX	*	133,574	457	43	160	SP2RS	*	315	27	4	17
*YC50UB	21	69,144	292	24	62	(OP: PY2ZV)	*	113,230	318	50	119	K8ZT	*	127,853	267	56	141	BA5TT	*	247	19	6	7
*YB2UTX	*	45,898	179	29	77	PP5IV	*	90,720	336	42	66	RW3AI	*	123,000	474	37	163	F4FLO	1.8	10,505	215	6	49
*YC55Y	*	12,291	100	15	36	PY2EJ	*	86,550	212	60	90	F5CYS	*	84,216	343	45	129	SO2BXI	*	2,346	82	4	30
*YC1URC	*	11,940	90	17	43	PY2MRS	*	83,850	166	39	88	SO2BXI	*	84,216	343	45	129	KE5WRS	*	4	1	1	(OP: W5AJ)
*YC0COX	*	11,925	101	22	53	PY2XAT	*	82,485	147	41	64	KB3TS	*	77,006	203	39	100	N3II	*	115,878	212	67	150
*YC1BRS	*	8,550	66	19	38	PY2SEI	*	82,485	147	41	64	N3II	*	69,440	215	39	92	N3YIM	*	31,392	114	25	84
*YB1TC	*	182	16	6	7	PY1RY	*	82,485	147	41	64	N3II	*	69,440	215	39	92	N3TR	*	14,256	64	8	60
*YB2ECG	14	2,352	50	9	15	PY3SB	*	82,485	147	41	64	N3II	*	69,440	215	39	92	K3YG	*	13,439	66	27	62
*YC2USB	7	777	19	10	11	PY2DXX	*	82,485	147	41	64	PY4DEL	*	7,536	87	15	33	PY4DEL	*	7,536	87	15	33
*YB7KNV	*	210	7	4	6	PY4DEL	*	5,984	80	16	16	PE2KP	*	67,497	367	31	120	W6QU	*	67,497	367	31	120
Mariana Islands												PY2RON	*	5,984	69	20	34	(OP: W5AJ)	*	5,984	69	20	34
New Zealand												PY2SF	*	5,984	69	20	34	W1GUS	A	914,928	895	86	306
ZL2AJ												PY2V8R	*	5,984	69	20	34	W1BDX	*	904,176	949	81	287
ZL2UO												PY2V7Y	*	5,984	69	20	34	K2TE/1	*	85,898	836	94	299
ZL3A												(OP: ZM3A)	*	43,190	288	21	49	K2TE/1	*	706,498	689	83	294
ZL1KMN												(OP: PY2ZV)	*	43,190	288	21	49	K2TE/1	*	528,295	625	82	253
*ZL4PW												PY2ZV	*	43,190	288	21	49	K2TE/1	*	1,024,176	1317	130	434
*ZL1AAO												PY2ZV	*	43,190	288	21	49	N4ZW	A	1,521,058	1007	128	453
*ZL3AB												PY2ZV	*	43,190	288	21	49	W0B0Z	*	1,227,996	1020	104	339
*ZL2MM												PY2ZV	*	43,190	288	21	49	W0B0Z	*	991,067	837	111	345
*ZL1AA												PY2ZV	*	43,190	288	21	49	K4T	*	874,100	874	100	327
*ZL4JB												PY2ZV	*	43,190	288	21	49	K4T	*	905,094	756	107	346
*ZL3TE												PY2ZV	*	43,190	288	21	49	K4T	*	819,926	757	90	297
*ZK2DF												Niue	*	43,190	288	21	49	K4T	*	804,000	666	100	344
DU9RG												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
DX1J												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
DU1IVT												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
*DV1JM												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
*DU1EG												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
*4F1AL												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
*DV1UBY												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
SOUTH AMERICA												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
Argentina												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
CE3BFZ												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
CE4AB												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
LT5H												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
LUTMCJ												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
LW9ETQ												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
LU1HF												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
LU1QC												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	344
LU1NDC												PY2ZT	*	43,190	288	21	49	K4T	*	804,000	666	100	

W6RKC	21	828	28	6	6	XE1ZVO	*	36,515	138	39	70	9M2CCO	14	West Malaysia	A	1,814,532	1954	129	405	DL8OS	1.8	20,664	294	15	69
AB7E	A	888,874	962	95	272	XE2YBG	7	36,247	13	8	11	OGB5	A	1,814,532	1954	129	405	DL4RCK	1,472	51	4	28			
AA7A	"	619,450	727	89	236	AFRICA						OG6N	"	1,546,796	1598	117	412	Greece	332,760	805	62	233			
K7UA	"	479,550	653	74	204	African Italy						OH8L	"	932,880	1202	99	291	SV2GJV	A	332,760	805	62	233		
N7XG	"	443,486	588	86	225	IG9S	14	366,592	1053	28	100	OH4XX	"	584,474	1006	88	253	Guernsey							
WU9B7	"	413,412	553	82	200	IG9R	7	475,814	1209	32	114	(OP: IKBHCG)	(OP: IGBTKW)	(OP: OGTX)	DJ2ARD	1,097,440	2579	38	152	MU0FAL	A	86,700	341	34	116
W7YED	"	317,948	630	63	139	Canary Islands						OH4DX	"	537,240	581	101	343	Hungary							
K17M	"	312,373	662	90	149	EC8AFM	A	168,663	333	60	149	OH1RX	"	126,690	293	60	186	HAØHW	A	192,096	442	60	201		
K7KR	"	305,226	414	71	208	EA8BZH	"	34,551	145	33	66	OH8CZ	"	41,866	228	33	88	HA5PT	"	9,620	61	25	40		
W7MD	"	223,098	432	52	154	EA8BZK	"	31,556	141	35	63	OH2BO	"	23,124	231	14	68	HA500	"	2,584	42	13	25		
K8BN7	"	155,117	320	54	127	EA8EA4SV	"	23,023	135	28	49	OH3BU	28	1,176	62	4	20	HA6PX	21	307,800	826	36	126		
K7EG	"	123,880	302	46	117	EA8QAM	"	23,023	135	28	49	OH2ES	"	14,016	74	26	70	HG3DX	14	465,630	1651	38	127		
K57T	"	109,716	259	55	109	EA8BQW	"	23,023	135	28	49	OH2BEN	1.8	34,732	414	13	63	HA8LNN	3.7	83,520	1050	18	72		
KR7RK	"	100,455	214	51	130	EC8ADW	14	123,403	387	28	91	Belarus						Iceland	59,072	249	33	109			
K7DSL	"	96,800	289	64	96	EW2AO	A	9,690	106	11	40	TM7F	A	3,064,505	3002	119	408	TF3DC	A	59,072	249	33	109		
W7CT	"	78,650	208	45	98	ZS5ZZ	A	50,963	169	42	71	EW4DX	14	4,840	51	11	44	Ireland							
N7RK	"	78,052	186	56	102	South Africa						F1RHS	"	990,448	1175	101	311	IE9ES	A	50,042	276	29	102		
KG7C	"	48,895	207	44	83	RG9A	A	5,578,665	3485	125	454	ON6FC	"	256,961	383	83	210	Isle of Man							
N7MBL	"	45,021	137	41	88	RT9S	"	1,371,172	1228	95	329	F4AGR	"	242,646	523	52	170	MD0CCE	A	1,467,360	1472	111	369		
K7TG	"	36,110	156	40	75	ASIA						ON4VC	"	41,922	175	37	100	Italy							
W7SW	"	34,056	132	33	55	Asiatic Russia						ON4DV	"	33,528	165	37	95	F1RHS	"	1,966,425	2048	110	391		
W1ZF	"	31,297	148	46	73	RO9O	"	2,801,400	2474	109	374	LZ8A	A	198,099	390	73	224	I2LBW	A	1,395,034	2019	108	430		
W7WHY	"	31,108	142	36	65	RU9AC	"	1,964,626	2047	109	374	TK9R	A	4,426,830	4135	130	476	I2VBN	"	1,221,944	1406	96	362		
W8ZU7	"	27,270	123	30	60	RT9S	"	1,625,344	1403	96	352	TK9R	A	4,426,830	4135	130	476	TF3DC	A	50,042	276	29	102		
N7CW	"	16,068	71	31	47	Corsica						TM9R	7	731,777	2962	34	123	IE9ES	A	50,042	276	29	102		
AK7KS	"	11,970	74	29	34	RO9O	"	2,801,400	2474	109	374	F1K1D	"	6,767	79	19	48	I2VDM	"	1,467,360	1472	111	369		
KV7DX	"	11,152	62	26	42	(OP: KN5H)	RU9AC	"	1,964,626	2047	109	374	F1E4Z	"	1,400	22	18	22	I2VDM	"	1,467,360	1472	111	369	
K7EY	"	7,728	71	17	29	RU9AC	"	1,964,626	2047	109	374	F1F4D	21	11,288	98	15	53	I2VDM	"	1,467,360	1472	111	369		
N1KEZ7	"	2,552	36	20	24	RT9S	"	1,371,172	1228	95	329	TM9R	7	731,777	2962	34	123	I2VDM	"	1,467,360	1472	111	369		
K7FBY	"	2,166	28	15	23	RW9DW	"	557,362	1025	49	172	F1Z8A	A	198,099	390	73	224	I2VDM	"	1,467,360	1472	111	369		
ACTUH	"	975	30	11	14	RW9DW	"	464,736	655	61	227	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
W7ZR	21	76,824	309	72	72	RV9CP	A	5,578,665	3485	125	454	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
K7AWB	"	24,589	133	22	45	RV9CP	"	355,762	691	47	159	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
K7RI	14	214,812	612	35	118	RV9CP	"	237,006	590	38	124	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
W7SO	"	22,673	114	22	57	RV9CP	"	187,320	571	49	119	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
N7MAL	3.7	288	8	8	8	RW9DU	"	120,496	377	33	103	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
W8MJ	A	1,622,684	1310	112	364	RA9JBA	A	105,522	371	30	99	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
N8BI	"	1,028,580	891	100	334	RA9JBA	"	90,228	267	42	104	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
N8BJO	"	772,065	733	95	292	RV9CP	"	84,500	308	21	79	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
AA9LL	"	455,715	574	69	226	RW9DW	"	76,692	264	36	96	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
W7PP/8	"	275,462	525	54	155	RW9DW	"	36,890	120	36	83	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
AJ1M/8	"	240,611	664	66	193	RA9JRC	"	2,940	78	11	19	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
W8KEN	"	155,456	278	69	155	RA9JRC	"	1,930,368	2010	110	316	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
W9PGE	"	71,260	204	36	104	RA9JRC	"	239,200	466	66	164	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
NA8BW	"	27,328	98	34	78	RA9JRC	"	15,753	129	17	42	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
K8GT	"	13,175	66	32	53	RA9JRC	"	6,804	71	21	33	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
N8KOJ	"	8,470	67	26	42	RA9JRC	"	5,824	79	24	58	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
K9SG	"	494,912	609	73	231	RA9JRC	"	19,260	161	26	51	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
W9ZRX	7	66,880	235	23	87	RA9JRC	"	1,930,368	2010	110	316	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
KK9V	"	33,852	139	23	70	RA9JRC	"	23,024	204	44	103	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
W9JA	"	12,390	72	21	49	RA9JRC	"	14,212	757	30	99	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
KOKX	A	1,778,084	1305	129	377	RA9JRC	A	1,617,606	1617	120	257	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
WA0MHJ	"	872,857	845	98	285	RA9JRC	"	152,073	343	69	117	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
NOAT	"	690,168	672	98	288	RA9JRC	"	109,682	237	55	118	TK9R	A	4,426,830	4135	130	476	I2VDM	"	1,467,360	1472	111	369		
K0RC	"	564,276	608	92	263	RA9JRC	"	54,152	38																

SP3J	*	83,700	302	33	75	SK3W	14	433,048	1492	35	117	W2XL	649,621	695	92	279	ASIA	JA6ZPR	3,318,280	2781	129	361					
S07L	*	7,900	65	20	30	SA1A	1.8	24	6	3	5	W2V0	246,356	400	65	177	Andaman & Nicobar	JA0QNJ	3,123,186	2576	129	345					
SN3C	14	70,250	293	32	93	HB9DUR	7	111,780	838	23	85	W2RDX	106,664	346	38	96	64,130	338	32	74	VU4MY	XU7MDY	Kampuchea	1,080,112	1980	87	217
SP4JT	*	40,221	178	30	79	Switzerland											N20AK	1,315,120	1579	77	263						
SN3X	7	35,506	384	14	68	(OP: SP3SLA)											N2NGW	693,156	984	59	223						
S07O	*	13,179	150	13	56	(OP: SP7DQR)											WB2JSM	64,643	1171	54	179						
SP5ES	*	408	13	8	9	(OP: SP7DQR)											WB2PYAAZ	164,495	332	55	142						
SP4K	*	3.7	307,530	1697	27	108	(OP: YO9HP)											Y5YLI	2,438	48	22	24					
S08JLA	1.8	48,248	703	12	62	(OP: YO9HP)											RN9S	3,777,823	3037	106	405						
CT2IVH	A	132,352	471	44	144	Portugal											UA9UZZ	3,439,016	2609	125	441						
YR9P	A	4,241,682	3865	135	50	(OP: YO9HP)											RA9A	2,978,619	2252	107	404						
YR7M	*	1,351,374	1796	109	365	(OP: YO9HP)											RA9C	944,198	1553	96	218						
YO4RST	*	109,172	404	49	147	(OP: YO9HP)											RA9D	10,290	107	11	31						
YQ6A	*	107,533	268	55	136	(OP: YO9HP)											RA9E	1,120	26	7	9						
YO9BXE	*	21,625	120	37	88	(OP: YO9HP)											RA9F	5,700,240	4098	135	489						
YO4DW	*	14,580	127	22	59	(OP: YO9HP)											RA9G	944,198	1553	96	218						
YP3A	21	145,600	610	32	100	(OP: YO9HP)											RA9H	10,290	107	11	31						
YR0R	*	39,688	301	23	59	(OP: YO9HP)											RA9I	1,120	26	7	9						
Y05BBO	*	33,072	205	24	54	(OP: YO9HP)											RA9J	5,957,406	4203	123	423						
YR8V	14	248,930	1240	35	111	(OP: YO9HP)											RA9K	9,237,780	2436	101	309						
Y04KCC	*	59,328	486	22	179	(OP: YO9HP)											RA9L	33,015	279	41	52						
Y02MAX	*	39,039	320	23	66	(OP: YO9HP)											RA9M	7,129,112	1589	79	203						
Y05AO	*	25,550	245	15	55	(OP: YO9HP)											RA9N	1,295,939	1777	76	217						
Y03JW	7	100,340	739	21	95	(OP: YO9HP)											RA9O	5,700,240	4098	135	489						
Y02LRH	3.7	3,800	99	7	31	(OP: YO9HP)											RA9P	944,198	1553	96	218						
IS0/K7QB	A	1,349,600	1668	88	312	(OP: IN30BR)											RA9Q	1,743,240	1982	119	319						
GM0NAI	A	192,816	363	55	179	Sardinia											RA9R	765,918	1276	90	216						
MM3T	*	156,415	585	50	155	(OP: GM0NAI)											RA9S	453,852	1188	82	170						
GM0EGI	*	30,000	117	39	86	(OP: GM0NAI)											RA9T	172,725	646	43	104						
MM0O	14	1,932	36	9	12	(OP: GM0NAI)											RA9U	40,896	249	53	91						
GM2Z	7	3,840	93	5	35	(OP: MM0O)											RA9V	12,782	104	29	54						
GM0NAI	A	1,349,600	1668	88	312	(OP: IN30BR)											RA9W	1,295,939	1777	76	217						
Scotland	OCEANIA											Australia															
GM0NAI	A	192,816	363	55	179	(OP: IN30BR)							Australia														
MM3T	*	156,415	585	50	155	(OP: GM0NAI)							Australia														
GM0EGI	*	30,000	117	39	86	(OP: GM0NAI)							Australia														
MM0O	14	1,932	36	9	12	(OP: GM0NAI)							Australia														
GM2Z	7	3,840	93	5	35	(OP: GM0NAI)							Australia														
GM0NAI	A	1,349,600	1668	88	312	(OP: IN30BR)							Australia														
YU7F	21	9,870	98	17	25	Sardinia							Australia														
YB1PC	A	21,194	146	48	58	(OP: YO9HP)							Australia														
YB3MM	7	13,680	226	12	25	(OP: YO9HP)							Australia														
KG6DX	A	1,626,675	1807	112	233	(OP: YO9HP)							Australia														
ZL1BYZ	21	9,870	98	17	25	(OP: YO9HP)							Australia														
ZL2G	14	27,181	167	28	49	(OP: YO9HP)							Australia														
ZL1BYZ	21	27,180	167	28	49	(OP: YO9HP)							Australia														
ZL2G	14	27,181	167	28	49	(OP: YO9HP)							Australia														
AY4D	A	3,517,792	3084	108	314	Slovenia							Australia														
LU6OI	*	814	14	9	13	(OP: YO9HP)							Australia														
LU8EOT	21	156,744	722	24	60	(OP: YO9HP)							Australia														
LU3EWZ	7	7,257	103	17	24	(OP: YO9HP)							Australia														
ZX2B	A	4,722,760	3304	122	383	(OP: YO9HP)							Australia														
PY3PA	*	48,600	227	51	69	(OP: YO9HP)							Australia														
PY2EL	*	23,644	121	32	60	(OP: YO9HP)							Australia														
PY2IQ	*	18,700	125	36	49	(OP: YO9HP)							Australia														
PY2DZ	*	17,640	125	44	54	(OP: YO9HP)							Australia														
PY4OG	28	3,760	59	16	24	(OP: YO9HP)							Australia														
PY1KGG	*	1,400	51	16	24	(OP: YO9HP)							Australia														

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