

Results of the 2011 CQ WW DX CW Contest

BY BOB COX,* K3EST

Expanded Results on the Web

Other elements of our contest reporting are on the CQ website. Please visit the CQ WW DX Contest page (follow the links from <www.cq-amateur-radio.com>) for ops of multi stations, QRM, and expanded top scores listings. —W2VU

The story of 2011 CQ WW DX CW Contest is best told by entrants: "I will remember this CQ WW CW Contest for years to come! I did not want the weekend to end. Like so many others, this was my best effort yet. Perfect propagation, an unlimited flow of call-signs, and the return of the high bands. This is what contesting dreams are made of! Yea, it was CW alright, a Continuous Wave of propagational fun! Big fun in the biggest contest of the year. Thanks CQ," . . . **KL8DX**. "First serious CQ WW CW experience from the DX side. Great fun. I can't wait the 2012 edition" . . . **FY5KE**. "Ten meters has finally woken up again after its seven or so year hibernation" . . . **G3TXF**. "Operated 38 hours with only 15 watts from a location far from Djibouti city center. Conditions were amazing" . . . **J28AA**. "This contest is big event in my ham life. Thank you very much everyone" . . . **JA1SKE**. "If someone says "CW is dead" then just look at the great activity CQ WW produces year after year. Great fun again to be part of the crowd" . . . **OE5OHO**. "King of contests," **OL4M**. "What we can say? The CQ WW is and will be always 'the' contest! 48 hours of fun as usual" . . . **ON3ND**. "Again a fantastic contest. A true celebration of CW! Many thanks" . . . **PY4FQ**. "Wow! Amazing conditions across all bands and an amazing rate with a personal best hour on CW. This contest should rewrite the record book" . . . **K5ZD**.

Read on to see how you and your friends ended up. Everyone who operated the CQ WW last year was a winner.

High Power

The competition for first place world is always tough. Taking first place again was Valery, RD3AF keying EF8M to first place. Not very far behind was Yuri, VE3DZ operating from PZ5T. Yuri really took advantage of the great conditions. Third place world went to Jose, CT1BOH, who traveled down to CR3E. It was very difficult to set a new US record on SSB. But that wasn't enough for Doug, K1DG. By taking first place US he set a new CW US record. Two new US records (SSB and CW) is not easy. Randy, K5ZD/1, was only a little behind in second place. Taking third place in the US from central Pennsylvania was Alex, LZ4AX operating

from K3CR. The top five US stations *all* broke the old US CW record: K1DG, K5ZD/1, K3CR, K0DQ/1, and NN1N. A very special mention must be made of the fantastic competition from the US west coast with N9RV/7, W6YI (N6MJ), and NK7U (KL9A) all pushing the limit of what was possible. Great job! CR2X keyed by Toni, OH2UA, took away top honors in Europe. Toni sure put CR2X in a lot of logs. Traveling to north of his QTH in Italy, Ivo, I7/9A7A, took T70A to second place in Europe. Winning the Scandinavian trophy and taking away third place in Europe was OH0Z operated by Tomi, OH6EI. Other worthy efforts from challenging areas should be recognized: K6XX, C91NW, 5H3EE, BA8BA, BA8AG, VU2PAI, VU2PTT, JH4UYB, UP2L, JT1CD, A45XR, A71EM, 9M2TO, VK6AA, VK2IM, 9M6NA, NH2T, KH7M, ZK2V, and E51MAN.

The continental winners were: North America 8P5A (W2SC); Africa EF8M (RD3AF); Asia A45XR; Europe CR2X (OH2UA); Oceania NH2T (N2NL); South America PZ5T (VE3DZ); Japan: JH4UYB; U.S.: K1DG (new record).

Low Power

Winning any low power category is a real accomplishment. Ending up on top is very special. Finishing again at the top was familiar, Joe, AA3B operating at V26K. Joe has been number one in the world many times. Moving up from his last year's third place finish into second place in the world was Julio, AD4Z, operating from the Dominican Republic as HI3A. Following closely in third place was VP5CW (W5CW). In the US, Maury, W3EF, took away the low power USA trophy and set a new US record. Maury says, "The final score was a personal best. For those who look at this score and say "what did he do differently from before?" the only thing I can offer (besides conditions) is my SO2R technique, which just keeps improving. It's like a language that I continue to learn. Moving up to second place US was Art, K1BX. Third place went to Ed, N1UR. All three top US scores broke the US record! In the far west US, N6RV, N7ZG, and K7BG made great scores. Taking first place in highly competitive Europe and repeating from last year was Tine, S50A. Tine put his forest QTH southwest of Ljubljana to very good use. Again finishing near the top in second place Europe was Gedas, LY3BA operating LY9A. Finishing in third position in Europe was Mladen, YT6W operating just east of Belgrade. HC/KF6ZWD and VP9/N3AD finished just below the top three world scores. The low-power top finishers in Japan in order were JH8SLS, JA1BJI, and J11RXQ, all with over 2-million points! Making good scores from challenging locations were N6RV, N7ZG, K7BG, W0ETT, KL8DX, YN2CC, 9G5MP, V51YJ, V5/DJ4SO, 3V8SS, T6MO, RW0AJ, XU7ACY, VU2BGS, UP1G,



HI3A, Julio, was #2 world low power all band.

7Z1HL, HL1VAU, 4S7KM, TX8NC, and DV1/JO7KMB.

The continental winners were: North America V26K (AA3B) (new record); Africa ED8A (EA8AY); Asia UP1G (UN7QX); Europe S50A; Oceania DV1/JO7KMB; South America HC2/KF6ZWD; Japan JH8SLS US: W3EF (new record).

QRP

Running only 5 watts will focus your mind. "I found QRP can be very enjoyable in the International Contest" . . . **7N4CPT**. "Thanks to all for pulling my 5W QRP signal out of the noise and QRM" . . . **DM2M**. "I made 284 QSOs with 2.7W down to 18mW using an attenuator" . . . **PA1B**. "Great conditions both days...Many thanks to all who picked up my Morse whispers" . . . **SP5DDJ**. "Simple goal: Work 100 countries QRP. Final total: 126 unique DXCC countries while QRP," **NN7SS (K6UFO)**.

The world winner in this tough category was Alan, K0AV, who keyed TI5A into a lot of logs. Alan takes away the world QRP trophy. Second place world and first place USA went to Doug, KR2Q. Doug has won the US top honors five years in a row! Quite an achievement! Third-place world honors went to Andrey, RW9RN, a nice job from east of the Urals. Second place USA went to long-time QRP expert Bill, N8ET, operating from Ohio. Third place in the US went to Tom, N1TM. First place Europe and fourth world was OH5Z (OH5WH). Fifth place world and number two in Europe was Heinz-Josef, DK5WL. Third place in Europe and sixth in the World was Konstantin, RU4SS. Special mention must be made of the great competition between JR4DAH and JH10GC, #1 and #2 in Japan. UN8PT, ND0C, N0UR, PY4ZO, JM1RPV/1, JA0VTK/7, UA0SBQ, RU9UN, W6JTI, and W6QU are to be congratulated for their outstanding efforts.

The continental winners were: North America TI5A; Africa EA8BVP; Asia RW9WN;

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2011 CQ WW CW TROPHY WINNERS AND DONORS

<p>SINGLE OPERATOR ALL BAND World EF8M (Opr.: Valery Komarov, RD3AF) Donor: Vibroplex</p> <p>World Low Power V26K (Opr.: Joseph Trench, AA3B) Donor: Slovenia Contest Club</p> <p>World - QRP T15A (Opr.: Alan Higbie, JR., K0AV) Donor: Gene Walsh, N2AA</p> <p>World - Assisted Charles Fulp, Jr., K3WW Donor: Robert McGwier, N4HY</p> <p>World - Assisted- Low Power VE2EKA (Opr.: Victor Androsow, VA2WDQ) Donor: CQ magazine</p> <p>World - Assisted - QRP OK3C (Opr.: Ludek Odehnal, OK2ZC) Donor: CQ magazine</p> <p>USA Doug Grant, K1DG Donor: Frankford Radio Club</p> <p>USA - Low Power Maury A Peiperl, W3EF Donor: North Coast Contesters</p> <p>USA - QRP Douglas Zwiebel, KR2Q Donor: Gene Zimmerman, W3ZZ</p> <p>USA - Assisted Steve E Sluz, NY3A* Donor: John Rodgers, WE3C</p> <p>USA Assisted - Low Power James P. Bowman, KS1J Donor: CQ magazine</p> <p>USA - Zone 3 W6YI (Opr.: Daniel Craig, N6MJ) Donor: Central Arizona DX Association</p> <p>USA - Zone 4 Patrick Barkey, N9RV/7 Donor: The Society of Midwest Contesters</p> <p>Canada VY2TT (Opr.: Kenneth S. Widelitz, K6LA) Donor: John Sluymer, VE3EJ & Jim Roberts, VE7ZO</p> <p>Carib./C.A. 8P5A (Opr.: Thomas Georgens, W2SC) Donor: Chuck Shinn, W5PG</p> <p>Europe CR2X (Opr.: Toni Linden, OH2UA) Donor: W3AU Memorial (Pete Raymond, N4KW)</p> <p>Europe - Low Power Tine Brajnik, S08A Donor: Scott Jones, N3RA & Tim Duffy, K3LR</p> <p>Europe - QRP OH5Z (Opr.: Kari Termonen, OH5WH) Donor: CQ magazine</p> <p>Europe - Assisted EA6FO (Opr.: Juan Luis Pla Nebot, EA5BM)* Donor: I4IND Memorial (Claudio Veroli, I4VEQ)</p> <p>Europe - Assisted - Low Power LZ8E (Opr.: Boyan Petkov, LZ2BE) Donor: CQ magazine</p> <p>Scandinavia OH0Z (Opr.: Tomi Ylinen, OH6EI) Donor: W3FYS Memorial (Chas Weir, Jr., W6UM)</p> <p>Russia Alexey A. Smekhnov, RG6G Donor: Roman Thomas, RZ3AA</p> <p>Africa CR3E (Opr.: Jose Carlos Cardoso Nunes, CT1BOH)* Donor: K5KA Memorial (Ralph "Gator" Bowen, N5RZ)</p> <p>Asia Chris Dabrowski, A45XR Donor: Chuck Shinn, W5PG</p> <p>Japan Masaki Masa Okano, JH4UYB Donor: Tack Kumagai, JE1CKA</p> <p>Japan - Low Power Nobuhiro Iwasa, JH8SLS Donor: Western Washington DX Club</p> <p>Oceania NH2T (Opr.: David W. Mueller, N2NL) Donor: Chris Tran, ZL1CT</p> <p>South America PZ5T (Opr.: Yuri Onipko, VE3DZ) Donor: Venezuela DX Club</p>	<p>South America - Southern Cone LT1F (Opr.: Lucas "Luc" Maierov, LU1FAM) Donor: Dale Long, N3BNA</p> <p>SINGLE OPERATOR, SINGLE BAND World - 28 MHz Bernie Van Der Walt, ZS4TX Donor: Joel Chalmers, KG6DX</p> <p>World - 21 MHz FY5KE (Opr.: Laurent Haas, F6FVY) Donor: Lew Sayre, W7EW</p> <p>World - 14 MHz Kevin S. Smith, VK6LW Donor: W2JT Memorial (North Jersey DX Assn.)</p> <p>World - 7 MHz IH9R (Opr.: Emilio Borea, IZ1GAR) Donor: Alex M. Kasevich, 8R1A</p> <p>World - 3.5 MHz EF8S (Opr.: Mauri Leppala, OH2BYS) Donor: Fred Capossela, K6SSS</p> <p>World - 1.8 MHz Drago Turin, S59A Donor: Kenneth Byers, Jr., K4TEA</p> <p>USA - 28 MHz William R. Tippet, II, W4ZV Donor: CQ magazine</p> <p>USA - 21 MHz Brian J Edward, N2MF Donor: Bob Naumann, W5OV</p> <p>USA - 14 MHz Daniel S. Handa, W7WA Donor: Northern Illinois DX Association</p> <p>USA - 7 MHz Gene Shablygin, W3UA/1 Donor: W6AM Memorial (Jan Perkins, N6AW)</p> <p>USA - 3.5 MHz Robye L. Lahlum, W1MK Donor: Bill Feldt, NG3K</p> <p>USA - 1.8 MHz Thomas M Greenway, K4PI Donor: Jeff Briggs, K1ZM</p> <p>Canada (21 MHz) VE6JY (Opr.: Gary Caldwell, VA7RR) Donor: John Sluymer, VE3EJ</p> <p>Carib./C.A. (28 MHz) HQ5X (Opr.: Roberto A Pagano, IV3IYH) Donor: David Hodge, N6AN</p> <p>Carib./C.A. - Low Power (21 MHz) Eduardo Somoano Cremati, CO8LY Donor: Al Crespo, F5VHJ</p> <p>Europe - 28 MHz CS2C (Opr.: Jiri Pesta, OK1RF) Donor: Jay Pryor, K4OGG</p> <p>Europe - 21 MHz Ivica Matkic, E73W Donor: Robert Naumann, W5OV</p> <p>Europe - 14 MHz CR6T (Opr.: Timo Klimoff, OH1NOA) Donor: G3FXB Memorial (Maud Slater)</p> <p>Europe - 7 MHz Ivan Mastilovc, YU1LA Donor: Ivo Pezer, 9A3A</p> <p>Europe - 3.5 MHz Emil Tafro, E71A Donor: K3VW Memorial (Frankford Radio Club)</p> <p>Europe - 1.8 MHz OK2W (Opr.: Karel Javorka, OK2WM) Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ</p> <p>Japan - 21 MHz Akito Nagi, JA5DQH Donor: Bob Wilson, N6TV</p> <p>Japan - 14 MHz Syuichi Sato, JA7FTR Donor: Chris Terkla, N1XS</p> <p>Asia - 21 MHz Steve Hodgson, ZC4LI Donor: Coconut Wireless Contest Club</p> <p>Asia - 14 MHz Alexander Krayzman, 4X/UTZDK Donor: W5FO Memorial (Ralph "Gator" Bowen, N5RZ)</p> <p>MULTI-OPERATOR, SINGLE TRANSMITTER World D4C (Oprs.: IK2NCJ, IK2PFL, IK2JUB, HB9CAT, YL2KL, YL2LY) Donor: CQ magazine</p>	<p>U.S.A. K5GO (Oprs.: K5GO, N5DX, K0OU, K0RO, K5LG, K9BGL, KM5G, N5RR) Donor: Douglas Zwiebel, KR2Q</p> <p>Canada VE3EJ (Oprs.: VE3EJ, VE3MM, VE3RTU, VE3XB) Donor: Eastern Canadian DX Assn.</p> <p>Carib./C.A. KP2M (Oprs.: KT3Y, K3EST, K9VV) Donor: Kansas City DX Club</p> <p>Africa ED9M (Oprs.: DL6KVA, EA9LZ, HA1AG, HA3NU, N5KO)* Donor: Harry Booklan, RA3AUU</p> <p>Asia P33W (Oprs.: RA2FA, RA9USU, RV1AW, RW4WR, UA2FZ, RA3AUU) Donor: Steve Merchant, K6AW</p> <p>Europe TM6M (Oprs.: 5B4WN, F1AKK, F5MUX, F5TTU, F5VH, F8DBF) Donor: Bob Cox, K3EST</p> <p>Japan JA1BPA (Oprs.: JA1BPA, JG1VGX, JI1ACI) Donor: Madison Jones, W5MJ</p> <p>Oceania - Pacific Rim KH7X (Oprs.: KH6ND, KH6SH, KH6MB, KH6YY, KH7U) Donor: Junichi Tanaka, JH4RHF</p> <p>South America P40L (Oprs.: N6XI, N7MH, W0YK, W6LD) Donor: Araucaria DX Group</p> <p>MULTI-OPERATOR, TWO-TRANSMITTER World CR3L (Oprs.: DJ2YA, DJ6QT, DK6XZ, DK7YY, DL5AXX, DL8WAA, LY2IJ, YL1ZF) Donor: Array Solutions</p> <p>USA K1LZ (Oprs.: K1LZ, K1VR, N8BO, W2GB, K3JO, OH3RB, KY1V, LZ4UU) Donor: Eric Scace, K3NA</p> <p>Europe IR4X (Oprs.: I4EAT, I4IKW, I4TJE, I4VEQ, I4USC, I4YRW, IK4DCT, IK4UPB, IK4ZGO, IK4GME, IK4BOY, IK4VET, IZ4CEZ, IZ4HVM, IZ3EYZ) Donor: Aki Nagi, JA5DQH</p> <p>MULTI-OPERATOR, MULTI-TRANSMITTER World C5A (Oprs.: OK1DSZ, OK1FFU, OK1NY, OK1RI, OK5MM, OK8WW/OM2TW, OM2IB, OM5AW, OM6NM) Donor: K2GL Memorial (Doug Zwiebel, KR2Q)</p> <p>USA KC1XX (Oprs.: KC1XX, W1UE, W1FV, WA1Z, DL1MGB, K1EA, K1QX, N1KWF, K1TR, W2RQ, KM3T) Donor: N6RJ Memorial (Bob Ferrero, W6RJ)</p> <p>Europe DR1A (Oprs.: DB6JG, DF6JC, DJ6ET, DJ7EG, DJ7EO, DK6WL, DK9IP, DL1QQ, DL2HBX, DL3BPC, DL3DXX, DL5LYM, DL6FBL, DL6MHW, DL8DYL, DL8LAS, DL8WPX, DL9DRA, GI0RTN, JK3GAD, PC5A) Donor: Finnish Amateur Radio League</p> <p>Japan JA5FDJ (Oprs.: JA5FDJ, JA5FBZ, JH5FIS, JH5RXX, JM1UWB, JR5IAH, JR5JAG, JR5VHU) Donor: Masahiro Kitagawa, JH3PRR</p> <p>WORLD - MULTI-MULTI SSB/CW COMBINED C5A 97,782,560 Donor: Blue Ridge Alpha Club, W4ETO Award</p> <p>USA - MULTI-MULTI SSB/CW COMBINED K3LR 68,983,664 Donor: N8SM Memorial (Operators of K3LR)</p> <p>CONTEST EXPEDITIONS World Single Operator C91NW (Op.: Michael D. Tessmer, K9NW) Donor: Friends of Phil Goetz, N6ZZ</p> <p>World Multi-Operator EL2A (Oprs.: AA7A, KC7V, A65BD, KY7M, N7CW) Donor: Carl Cook, A16V</p> <p>SPECIAL - SINGLE OPERATOR AWARD World SSB/CW Combined VE2IM/PZ5T (Opr.: Yuri Onipko, VE3DZ) 29,911,032 Donor: Hrane Milosevic, YT1AD</p> <p>CLUB World SSB/CW Yankee Clipper Contest Club 494,716,684 Donor: W1WY Memorial (CQ magazine)</p> <p>Non-USA SSB/CW Bavarian Contest Club 442,951,941 Donor: N6AUV Memorial Northern California Contest Club</p>
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* Second Place



Mike, RT4W, QRP assisted all band.

Europe OH5Z; Oceania: no entry; South America PY4ZO; Japan JR4DAH; US: KR2Q.

Assisted

The new emphasis on the assisted categories has been well received and the number of assisted entries continues to grow. If you want to take advantage of the latest technology and use of the internet, an assisted category should be your choice. There are many assisted awards to win and records to set. Remember, the use of help finding any QSO in your log via an internet spotting tool (Skimmer, any DX spotting help) places you in the assisted category. Everything fell the right way to iron man, Charles, K3WW. Charles took the second world top assisted score and set a new North American record! Charles also beat the top non-assisted US scores, a rare accomplishment. Taking second place world on the way to taking first place Europe was Juan Luis, EA5BM operating from EA6FO. Third place world and setting a new African record was Ricardo, CT3KN. Robert, ST2AR was only slightly behind as he handed out a double multiplier to many contesters. Finishing second place Europe was taken by Daniel, E73M located just northeast of Sarajevo. Taking third place Europe was Marko, S51DS, operating at S59ABC. Second place in the US was taken by Steve, NY3A, a Frankford Radio Club entrant. John, K1AR, took third place using a 70-foot high dipole from Windham, New Hampshire. From the far US west, K5LL/7, N6WIN, K9YC/6, and K9JF/7 put up fine scores! The strong efforts of NL7G, 6V7V, BA7IO, B4TB, UN9L, UP4L, HZ1FI, XV1X, OY1CT, EI6IZ, MD2C, IS0AFM, WH0E, DU1/JJ5GMJ, and CE3FZ gave many entrants very nice multipliers.

The continental winners were: North America K3WW (new record); Africa CT3KN; Asia RG9A; Europe EA6FO (EA5BM); Oceania WH0E; South America LP1H (LU5DX); Japan JS3CTQ (new record); US K3WW (new record).

Assisted Low Power

Low power assisted is now listed in the records and winners have received certificates. We hope this category will continue to grow. Many new continental records were set over the contest weekend. Taking first place world in this difficult category was Victor, VE2EKA (VA2WDQ) operating from east just of

Montreal. A member of Contest Group du Quebec, Victor worked over 4660 QSOs on his way to setting a new world record! Number two in the world and first in Europe was LZ2BE operating at LZ8E. Third place world and first in South America was Hans, PJ4LS operating from the beautiful island of Bonaire. Here in the US, Jim, KS1J, took top honors from Rhode Island with a score of over 3.2 million. Second place went to Brad, W1NT, who had the highest number of multipliers among the top three places. The battle for third position in the US was close with Keith, W3KB, edging out Alex, KG1E. In the US west, WN6K, K0MPH, NX0I, and WU9B/7 all finished with good scores. The second spot in Europe went to Rimas, LY6A. The third position in Europe went to Olof, G0CKV at M5E. Putting in outstanding efforts from challenging locations were: J79WE, KP2MM, EA8OM, RT9S, 9N7DX, BA8IK, VR2PX, JH1RNI, UN7FW, 9N7DX, ZL1TM, AH0KT, and PJ4LS.

The continental winners were: North America VE2EKA (new record); Africa EA8OM (new record); Asia RT9S (new record) Europe LZ8E (new record); Oceania AH0KT (new record); South America PJ4LS (new record); Japan: JH1RNI (new record); US KS1J.

Multi-Single

The CW multi-single category had 185 entries representing 792 operators! A winning multi-single station takes a lot of thought. Setting a new world record on their way to winning the number one position was the effort of D4C manned by a fine multi-national team. Taking second place world was the six-man Russian team at P33W; they set a new Asian MS record. Taking third position in the world on their way to setting a new South American record was the US team at P40L. Multi-single is very competitive especially within Europe. Taking the top European honors and setting a new European record was team TM6M located in the far western tip of France. Finishing second in Europe was the Slovak Contest Group, OM8A, located in the countryside of southern Slovakia. Third place went to ES9C located in central Estonia. Moving up to first place in the US was Stan's team of eight seasoned contesters at K5GO located in Arkansas. The battle for second place went to W2RE; Ray's team did very well from eastern New York. Third place US went to the perennial top placing efforts from Tom's team at K8AZ. Out west in the U.S., N0NI, W7VJ, and W7DR/6 finished in that order. A few of the calls appearing in many logs were: ZF1A, FM5CD, TO3A, KP2M, ZD8W ED9M, RF9C, RW0A, BY5CD, B4R, 8Q7DV, JT5DX, UZ2M, VK4KW, AH2R, KH7X, YE1ZAW, ZL2J, T2V, and CW5W.

The continental winners were: North America VE3EJ; Africa D4C (new record); Asia P33W (new record); Europe TM6M (new record); Oceania KH7X; South America P40L (new record); Japan JA1BPA; US K5GO.

Multi-Two

A serious multi-two requires a lot of planning. Not only do you need an excellent team, you also have to time your band moves carefully. Once again team CR3L took their skill to a new level. They not only won top honors, they also set a new multi-two world record! The multi-national team lead by Rhein-Ruhr DX Association members ran away with world top honors. Second place world honors went to the



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nipping at their heels was the W2FU team. The European crown was taken away by DR1A, the contest call of DF0CG. Second place in Europe went to the team of 9A1A from their new station west of Zagreb. Third place in Europe went to the DF0HQ Contest Team, the Ilmenau Contest Club. Also breaking the 20-million point barrier were LZ9W and SK3W. From farther west in the US, NR5M, K0RF, W0AIH/9, and N6WM did fantastic jobs! Finishing number one in Japan from a beautiful mountaintop was the Shizuoka team of JA5FDJ. They just edged out JA3YBK located in Nara. The following stations ended up in a lot of logs: C6AAW, 9L0W, and RT9J.

The continental winners were: North America KC1XX; Africa C5A; Asia JA5FDJ; Europe DR1A; Oceania no entry; South America PJ2T; Japan JA5FDJ; US KC1XX (new record).

Clubs

Contest and DX clubs throughout the world provide a solid foundation to learn contesting, propagation, building, and operating skills. By belonging to a radio club you have a front-row seat to sources of information on amateur radio subjects. Many clubs have members take part on DXpeditions for a contest. These travelers help their club's score and provide more fun for everyone. The top six clubs in the world racked up 2.16-billion points coming from 1263 entrants! For 2011, the world's top club score was the Yankee Clipper Contest Club with nearly half a billion points. Second place in the world went to perennial powerhouse the Bavarian Contest Club. The BCC was the winner of the non-USA trophy with 442-million points. The contest club from the Philadelphia area, the Frankford Radio Club, took away second place. Taking second place outside the US was the Rhein-Ruhr DX Association with 304-million points. Third place in the US went to the Potomac Valley Radio Club. Repeating from 2010, third place outside the US went to Contest Club Ontario. Each of these clubs has a long tradition of full commitment to the contest. Congratulations to all clubs. You are the social life blood of amateur radio. Thanks to all the clubs who sent in scores.

Team Contesting

You can form a team with any five contesters in the world. This year



W3EF, Maury, set a new US LP record.

numero uno was the **Pile-Up Survivors Team A** which took away top honors. This team had some very top finishers in the contest. Second place went to the **Pile-up Survivors Team 1** made up of calls very recognizable. Third place went to the **LU Contest Group #1**. You can send your team registration via e-mail to <teams@cqw.com>. You will receive an acknowledgement. Congratulations to everyone!

1. **Pile-Up Survivors Team A:** 8P5A(W2SC), C91NW(K9NW), CR3E(CT1BOH), PZ5T (VE3DZ): 50,344,672
2. **Pile-Up Survivors Team 1:** 9M6NA (JE1JKL), NH2T (N2NL), P40F (R5GA), ST2AR (S53R), TO7A (UT5UGR): 48,800,438
3. **LU Contest Group #1:** P40W (W2GD), V26K (AA3B), CW5W (CX6VM), LT1F (LU1FAM), LP1H (LU5DX): 46,246,747
4. **Contest Club Finland Team Sisu:** CR2X (OH2UA), OH0Z (OH6EI), OG1M

2011 CQ WW CW 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
E8FM	251/13/56	778/19/71	1638/28/82	1456/30/93	1271/34/110	2479/36/119
P2ST	101/14/31	425/19/62	1073/30/93	1665/38/123	1791/38/118	2537/34/118
CR3E	267/14/60	660/21/75	1716/30/96	1279/34/108	1129/34/117	2161/35/108
P40W	368/16/56	664/23/78	1080/28/89	1246/32/94	1400/32/93	1725/31/107
8P5A	325/17/45	705/22/78	1213/30/101	1521/33/95	1542/30/96	1979/28/95

WORLD TOP SINGLE OPERATOR ASSISTED ALL BAND

K3WW	EA6FO	CT3KN	ST2AR	LP1H
78/14/53	378/22/90	1374/35/126	809/36/119	936/35/127
129/11/55	260/19/79	1648/37/122	1048/39/116	1126/38/128
255/14/54	263/15/65	496/19/62	1024/33/97	706/35/123
0/0/0	80/12/37	555/23/73	712/35/84	1751/38/127
4/4/4	24/12/12	514/30/93	893/40/106	1240/37/127

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

D4C	88/19/86	416/29/108	1528/38/132	1958/40/157	1787/38/157	3465/39/167
P33W	516/19/81	1116/28/105	1731/38/148	1781/40/146	1516/38/151	2110/38/154
P40L	65/18/63	420/26/93	2646/35/126	1191/40/137	2065/38/143	2335/35/143
ED9M	140/11/54	472/19/74	1862/32/113	1444/40/135	1333/38/144	2704/39/150
RF9C	297/17/62	1390/30/107	1549/38/143	1077/38/138	936/35/144	1383/36/145

WORLD MULTI-OPERATOR TWO TRANSMITTER

CR3L	194/14/68	1330/28/108	3151/34/127	2275/40/151	3144/39/153	3035/39/157
PJ4A	432/17/62	1116/26/93	2760/34/124	1922/39/138	2951/37/131	2965/34/134
PW7T	52/15/45	602/29/98	2189/38/133	2027/37/146	3009/39/159	1726/36/152
TC3A	632/16/66	1434/22/88	2668/38/149	1875/39/135	2243/38/148	1329/38/145
K1LZ	192/17/79	1066/28/116	2118/39/148	1472/40/153	1724/38/148	1239/36/152

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

C5A	812/20/82	2086/34/116	3410/37/130	4368/40/151	4066/38/154	3985/39/157
PJ2T	946/22/82	1418/29/99	3007/33/120	3897/38/141	3228/38/135	2549/33/122
KC1XX	489/25/91	1690/33/123	2729/39/153	2396/40/166	2328/39/158	1905/37/164
K3LR	467/25/91	1322/30/119	2370/38/153	2666/40/163	2549/38/158	2118/36/158
W3LPL	474/25/94	1543/32/125	2468/39/152	2792/40/166	2188/38/160	1763/37/160

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K1DG	163/18/68	563/19/78	1335/28/105	519/36/108	1015/32/117	1200/30/106
K5ZD/1	74/15/41	560/22/79	1181/33/107	933/37/114	1072/32/111	1084/29/109
K3CR	64/15/39	584/23/81	1271/34/117	737/33/108	1058/35/106	1101/30/112
K0DQ/1	63/16/45	313/23/85	1884/29/102	658/33/100	836/32/112	1156/26/97
NN1N	49/12/38	601/23/78	1351/33/101	942/37/106	744/30/95	1014/28/92

USA TOP SINGLE OPERATOR ASSISTED ALL BAND

K3WW	78/14/53	378/22/90	1374/35/126	809/36/119	936/35/127	1035/29/119
NY3A	58/12/41	217/20/80	681/34/118	677/36/131	1031/34/127	751/30/122
K1AR	78/15/55	337/23/99	795/35/129	526/39/132	614/35/136	788/32/135
N2MM	33/10/23	172/20/82	610/33/118	698/37/122	531/33/124	620/31/124
K0KX	31/13/21	208/24/85	474/36/117	501/40/128	555/38/135	563/33/127

USA MULTI-OPERATOR SINGLE TRANSMITTER

K5GO	56/17/54	177/28/105	1753/39/144	911/40/150	1061/38/150	1204/35/148
K8AZ	63/19/60	353/28/103	1297/38/137	1013/40/147	850/38/147	901/32/141
W2RE	63/14/55	575/22/91	1480/35/131	856/40/136	1140/37/143	815/31/139
N0NI	52/17/45	409/26/101	1224/37/131	771/40/134	756/35/141	956/34/138
K9CT	68/19/48	227/25/95	1324/39/141	774/40/143	720/38/147	726/35/144

USA MULTI-OPERATOR TWO TRANSMITTER

K1LZ	192/17/79	1066/28/116	2118/39/148	1472/40/153	1724/38/148	1239/36/152
N3RS	127/18/70	945/30/109	2334/37/140	1280/40/149	1745/38/145	1455/35/143
N4WW	84/19/66	347/28/102	1409/37/130	1090/39/141	1388/36/134	1332/34/139
NY4A	43/9/31	621/22/89	1549/33/131	808/37/127	1604/36/131	852/31/132
KB1H	45/11/36	740/20/94	1080/32/122	1136/40/131	1438/36/135	1050/30/120

USA MULTI-OPERATOR MULTI-TRANSMITTER

KC1XX	489/25/91	1690/33/123	2729/39/153	2396/40/166	2328/39/158	1905/37/164
K3LR	467/25/91	1322/30/119	2370/38/153	2666/40/163	2549/38/158	2118/36/158
W3LPL	474/25/94	1543/32/125	2468/39/152	2792/40/166	2188/38/160	1763/37/160
W2FU	308/18/73	1352/32/120	2550/39/140	2206/40/150	1953/38/153	1722/34/144
N04I	255/26/88	756/28/111	2022/39/151	2363/40/160	1949/37/162	1820/36/151

(OH6KZP), OH8X (ES2RR), OH2BH (OH6UM): 27,101,286

5. **VKCC BUSH RANGERS:** VK2IM, VK6AA (VK2IA), VK6LW: 13,288,075

6. **Contest Group du Quebec GQ-1:** VA2III (VE2SG), VA2OP, VE2EKA(VA2WDQ), VA2EW(VE2TZT): 12,106,798

7. **Team "KTU RC - 55 years on the air":** LY3B, LY4T, LY6A, LY9A, M7A (LY4Y): 11,728,437

8. **MONTeam:** EE2K (EA2AZ) EA2IF, EA4KE, ED4T (EA4CWN), EA7TG: 10,254,648

9. **Grupo DXE Dawgs:** XE1MM, XE2B, XE2GG, XE2S, XE1CT: 5,135,269

10. **Team Orca - CW Pod:** VA7ST, VA7KO, VE7VR, VE7XF, VA7RN: 4,737,152

11. **Russian CW Club team:** R7FF, RA7C, UA6GF, UA6HFI, UA6GX: 3,715,880

12. **Order of Boiled Owls team:** KA2D, N2FF, K2RB, NA2M, N2UN: 3,410,485

13. **PSE QRS - Hungarian Contest Team:** HA0GK, HA1ZH, HG4F (HA4FF), HA6PJ, HA7GN: 3,193,608

14. **DELARA #2 Team:** N9AUG, KV8Q, KQ8RP: 2,442,271

15. **Contest Group du Quebec GQ-2:** VE2EZF, VE2QV (VE2FFE), VE2FXL, VE2AXO, VE2FK: 1,829,889

16. **VKCC DREAM TEAM:** VK3TDX, VK2GR, VK2NU, VK6XX: 1,724,050

17. **DELARA #1 Team:** WD8KNC, W8KTQ, K8MP, N8BHL: 1,613,916

18. **MCC Rabble Rousers:** VE1ZA, VE1AL, VE1ZJ, VA1CHP, VE1ZAC: 1,680,002

19. **Allegheny Valley Radio Association:** K3UK, KN3A, K3MRK, KB3LIX, W3WC: 1,455,560

20. **Team Metro Mutz:** W9ILY, K9CJ, N9LAH, N9AKR, NV9X: 1,384,539

21. **Grupo DXE Catz:** XE1NW, XE2AU: 290,865

22. **OBO Second Squad team:** KS2G, N2YBB: 156,266.

23. **Alexander the Great Contest Group:** SV2FLQ: 3,686

Records

The conditions during the weekend provided the opportunity for entrants to set many new records. The assisted categories are now well represented on the records list (cqww.com). It sure was the year for new multi-records: 13 new multi-records were set (see below). Each continent, zone, country, and many call areas have their own set of records. The records are maintained on the cqww.com website. If you discover an error in the records, please document it and let us know at <questions@cqww.com>. The following stations used their skill to obtain new

CW records. Congratulations!

World: L28 D2QV, L14 FY5FY, A21 PR5B, ALA VE2EKA, AL28 PP5BZ, AL21 HA3DX, AL14 HK3TU, AL3.5 S53F, AL1.8 GW5R, AQA OK3C, AQ28 SU/HA3JB, AQ21 SN7C, AQ3.5 UT3L, MS D4C, M2 CR3L. **USA:** A K1DG, 7 W3UA/1, LA W3EF, AA K3WW, A28 K2SSS, A21 KN5O, ALA KS1J, AL28 K2FWA/4, AL21 K7JA/6, AL7 N5PG, AQA K8ZT, AQ28 NY6DX, AQ7 NS2X/4, M2 K1LZ, MM KC1XX. **North America:** LA V26K, AA K3WW, ALA VE2EKA, AL28 K2FWA/4, AL1.8 VE3MGY, AQA K8ZT, AQ28 NY6DX, AQ21 VE3XD, AQ7 NS2X/4, M2 K1LZ. **Africa:** L28 ZS4TX, L28 D2QV, L21 9G5XA, ALA EA8OM, AL28 EA8AFM, AL14 J28AA, AQ28 SU/HA3JB, MS D4C, M2 CR3L. **Asia:** 14 4X/UT7DK, ALA RT9S, AL28 RU9CK, AL21 RY9C, AL14 JG2KKG, AL7 UA9UJL, AL1.8 RK9AD, AQ28 UN8PCZ, AQ3.5 JF2MBF, MS P33W, M2 TC3A. **Japan:** 21 JA5DQH, AA JS3CTQ, A28 JH3AIU, ALA JH1RNI, AL28 JS6RTJ, AL21 JG1FKT, AL14 JG2KKG, AQA JA8JMG, AQ3.5 JF2MBF, MM JA5FDJ. **Europe:** 28 CS2C, L21 9H3PP, Q28 HA8KW, Q7 9A3JH, AA EA6FO, A28 MD4K, A21 9A5Y, ALA LZ8E, AL28 YU2FG, AL21 HA3DX, AL14 OR2F, AL3.5 S53F, AL1.8 GW5R, AQA OK3C, AQ28 DH8BQA, AQ21 SN7C, AQ3.5 UT3L, MS TM6M, M2 IR4X, MM DR1A. **Oceania:** ALA AH0KT, A28 ZL3TE, AL28 VK2NU, AL14 YB1AR, MS KH7X, M2 AH0BT. **South America:** L14 FY5FY, L1.8 HK1AA, A28 ZW5B, A21 PR5B, ALA PJ4LS, AL28 PP5BZ, AL14 HK3TU, AQ14 CE3WWD, MS P40L.

Special Mention

"I have never worked 39 zones in one contest before. I was very excited when I found VE2EKA (zone 2) and got a call from JW1CCA (zone 40) in the last hours" . . . **AH7C.** "DXCC on 3 bands in 2 days, WOW!" . . . **K0KX.** "Thank you much for the great contest! Thank you 10 meters! 4BDXCC was great. Some real sharp ops out there. The real sharp ones are the ones who sign often" . . . **K8GL.** Why not try going on a DXpedition? The CQ WW is famous for many DXpeditions which make the contest very interesting. Some of the entrants and DXpeditions this time were: VP2EAT, V26K, C6AQQ, 8E8A, V31OT, VP9/N3AD, VP2V/N3DXX, J37T, J39BS, YS1GR, HQ9R, HQ5X, TO7A, FM/F6AUS, YN2CC, PJ5G, VP6CW, IH9R, D2QV, ZD8N, J28RO, 9G5MP, 9G5XA, 5Z4EE, C91NW, V51YJ, V5/DJ4SO, 5N7M, 5H3EE, 3V8SS, 5X1NH, 9J3A, T6MO, TC7B, 4K9W, XU7ACY, BA8BA, BA8AG, 4L1MA, VU2PAI, VU2PTT, VU2BGS, 4X2M, EX2A, EX2X, JT1CD, JT1F, A45XR, A71EM, 7Z1HL, 4S7KM, EY8MM, HS0AC, E21EIC, ZC4LI,

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CR2X	233/14/56	503/20/71	1205/27/90	1196/35/105	1290/32/108	1862/30/104
T70A	345/11/55	718/20/76	1402/31/97	1056/31/87	909/29/85	1233/32/93
OH0Z	476/15/59	947/22/87	1055/27/90	920/27/88	1075/33/107	674/33/105
OE3K	294/13/50	891/18/71	1080/28/87	951/33/81	1057/34/88	937/32/81
S53MM	212/12/51	641/19/63	1492/27/77	849/31/84	934/33/93	584/32/96

EUROPE TOP SINGLE OPERATOR ASSISTED ALL BAND

EA6FO	129/11/55	260/19/79	1648/37/122	1048/39/116	1126/38/128	1253/37/131
E73M	216/10/49	504/17/71	1332/30/97	895/37/115	822/38/135	899/36/140
S59ABC	140/11/49	492/21/73	1204/32/98	844/34/99	663/36/122	698/39/128
YL2KO	397/24/70	949/28/103	323/33/112	356/33/112	722/37/134	1028/37/154
S08A	141/13/56	421/24/93	1227/33/100	707/34/119	716/38/135	411/34/109

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

TM6M	178/16/74	990/29/108	1963/39/148	1032/40/150	1091/39/158	1956/39/171
OM8A	205/23/86	852/35/123	2061/39/151	1480/40/146	1269/39/152	1085/38/160
ES9C	633/24/87	1416/35/120	1543/39/151	1507/40/145	1191/39/160	1461/39/166
EA2EA	124/20/78	587/25/103	1920/39/150	1332/39/144	1033/38/149	1507/39/160
UZ2M	445/25/90	1033/33/121	1967/39/158	1460/39/147	1200/39/158	1063/40/163

EUROPE MULTI-OPERATOR TWO TRANSMITTER

IR4X	447/20/79	1465/32/120	1996/39/151	1307/40/156	1889/39/150	1471/39/163
TK4W	750/17/66	1930/26/97	2820/35/123	2359/38/130	1780/39/135	1748/37/145
ED1R	368/18/78	1168/24/104	2452/38/125	1254/40/136	1979/37/142	2226/39/155
OL3Z	473/16/61	1165/21/91	2132/36/128	1277/38/139	1587/38/146	1192/38/152
HB9CA	557/12/58	1438/23/95	2045/35/122	1379/38/131	1504/39/141	1239/39/152

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

DR1A	1371/26/92	2198/32/118	3053/39/152	3032/40/162	2240/39/162	2068/40/173
9A1A	1468/23/92	2014/32/114	3192/38/141	2712/40/162	2401/38/156	1771/39/166
DF0HQ	1111/24/84	1938/30/114	3412/38/153	2496/40/155	1835/39/156	1323/39/162
LZ9W	998/21/76	2120/33/124	3362/38/147	2386/40/151	1781/39/152	1575/37/149
SK3W	902/18/69	1942/34/115	2390/38/135	2772/40/151	2008/39/156	1478/38/156

Next Generation N6BT Verticals!



Bravo 5K and Bravo 7K Multiband Verticals

- Bravo 5K: 5 bands (20-10M); Bravo 7K: 7 bands (40-10M).
- Low cost manual-band-change designs for portable or home use.
- Longest piece is 36" long, ideal for expedition use.
- Feed line connects at bottom for easy deployment.
- No top "T" bar for reduced visual impact.
- High-efficiency components throughout for improved performance.



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A61M, A65BR, UK8AR, UK9AA, XV2RZ, 9M2TO, ZA1G, GU4CHY, GU4YOX, MJ0ASP, 9H9BH, T70A, JW1CCA, 9M6NA, NH2T, YB4IR, TX8NC, ZK2V, T88TW, DV1/JO7KMB, E51MAN, FY5KE, ZP9EH, OA1F, PZ5T, 9Y4W.

Comments

The conditions during the 2011 CQ WW CW were outstanding! We received 6651 CW contest logs of which about 6588 were electronic! Between SSB and CW 14,137 logs were received! That is a lot of log checking to provide you with the results. It is very clear that if you want to have fun and work a lot of DX, enter the CQ WW contest.

Your continued submission of an electronic log allows the CQ WW CC to process the enormous amount of data received. Thanks to all the contesters around the world who sent in a log. Please send in your log no matter how small. 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 did everything OK, you will get back an acknowledgment. *If your radio has the capability, please submit a log with exact frequencies for each QSO.* Everyone enters the contest to have fun, meet friends, perhaps work some new ones and *fairly compete*. You can find a complete copy of the rules and other information at: <<http://www.cqww.com>>. The CQ WW CC fully supports the Contesting Code of Ethics produced by the World Wide Radio Operators Foundation. The code can be found at <<http://wwrof.org/contester-code-of-ethics/>>.

Spilt operation: It has come to our attention that some DX entrants are operating spilt on CW. Split operation on CW in a major contest should not happen. If you say "up 5," there may be many stations between your frequency and 5 up. Bands are too congested and there is no room for stations to listen up or down for stations calling on top of other stations. The person you think came back to you may easily be working someone else.

SO2R operation: If you operate single operator, you are allowed only one signal on the air at any time. If you operate SO2R, you must pre-

2011 CQ WW CW TOP SCORES IN MOST ACTIVE ZONES

World #1 High
Power Assisted
Charles, K3WW.



Zone 3 W6YI 6,487,173 NK7U 6,099,036 VE7CC 5,440,940 K6XX 4,210,641 K7RL 4,166,624 CF3A 8,539,244 N9RV/7 6,738,498 VE3JM 6,672,204 W9RE 6,581,316 K0KX 5,221,147 VY2TT 10,960,144 VY2ZM 10,682,256 K3WW 10,367,595 K1DG 10,189,365 K5ZD/1 10,160,802	Zone 14 EA6FO 9,404,584 CR2X 8,970,396 DL5RMH 6,213,560 OQ5M 5,737,624 DC4A 5,736,780 E73M 7,297,400 T70A 6,923,547 S59ABC 6,490,274 OH0Z 6,381,144 YL2KO 6,347,726 UU7J 5,353,668 RM2U 4,866,156 UR7GO 4,263,168	Zone 20 UW0K 3,710,705 R7AW 3,708,266 TC7B 6,147,555 YP9W 5,710,905 *LZ8E 4,685,256 YP8T 3,881,280 LZ5K 2,984,256 JS3CTQ 5,304,348 JH4UYB 4,775,040 JA6LCJ 3,384,113 *JH8SLS 2,334,228 JE1LFX 2,212,602 *Low Power
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2011 CQ WW CW & SSB COMBINED CLUB SCORES

UNITED STATES	
YANKEE CLIPPER CONTEST CLUB	494,716,684
FRANKFORD RADIO CLUB	408,821,188
POTOMAC VALLEY RADIO CLUB	302,123,295
FLORIDA CONTEST GROUP	135,239,437
MINNESOTA WIRELESS ASSN	125,092,577
NORTH COAST CONTESTERS	113,573,018
NORTHERN CALIFORNIA CONTEST CLUB	109,058,608
SOCIETY OF MIDWEST CONTESTERS	89,752,244
SOUTHERN CALIFORNIA CONTEST CLUB	89,050,067
CENTRAL TEXAS DX AND CONTEST CLUB	63,338,353
CAROLINA DX ASSOCIATION	60,196,309
ARIZONA OUTLAWS CONTEST CLUB	52,324,771
MAD RIVER RADIO CLUB	50,180,085
WESTERN WASHINGTON DX CLUB	42,449,187
TENNESSEE CONTEST GROUP	40,031,866
HUDSON VALLEY CONTESTERS AND DXERS	37,464,067
WILLAMETTE VALLEY DX CLUB	37,165,598
SOUTH EAST CONTEST CLUB	36,437,927
GRAND MESA CONTESTERS OF COLORADO	29,898,322
ALABAMA CONTEST GROUP	28,516,552
SKY CONTEST CLUB	26,533,052
NORTH TEXAS CONTEST CLUB	16,418,274
MOTHER LODE DX/CONTEST CLUB	15,244,942
CTRI CONTEST GROUP	14,911,808
SOUTHWEST OHIO DX ASSOCIATION	14,359,325
NORTH CAROLINA DX AND CONTEST CLUB	11,934,862
ROCHESTER (NY) DX ASSN	10,498,330
NORTHERN ROCKIES DX ASSOCIATION	9,240,323
LOUISIANA CONTEST CLUB	8,216,195
WESTERN NEW YORK DX ASSOCIATION	6,859,213
UTAH DX ASSOCIATION	5,218,411
DELARA CONTEST TEAM	4,853,082
SPOKANE DX ASSOCIATION	4,464,886
BRISTOL (TN/VA) ARC	4,363,097
ALLEGHENY VALLEY RADIO ASSOCIATION	3,762,775
MISSISSIPPI VALLEY DX/CONTEST CLUB	3,471,866
CENTRAL OREGON DX CLUB	3,178,927
HILLTOP TRANSMITTING ASSOCIATION	2,862,805
STERLING PARK AMATEUR RADIO CLUB	2,795,723
KANSAS CITY DX CLUB	2,390,629
599 DX ASSOCIATION	2,234,740
BERGEN ARA	2,096,965
METRO DX CLUB	2,057,536
MISSOURI DX/CONTEST CLUB	1,975,089
NORTHERN ILLINOIS DX ASSOCIATION	1,930,014
SALT CITY DX ASSOCIATION	1,743,187
TEXAS DX SOCIETY	1,505,631
SOUTHERN CALIFORNIA DX CLUB	1,240,361
CENTRAL ARIZONA DX ASSOCIATION	1,186,877
WEST PARK RADIOPS	1,164,693
NORTHERN ARIZONA DX ASSN	1,128,865
EASTERN IOWA DX ASSOCIATION	992,449
DELAWARE LEHIGH AMATEUR RADIO CLUB	830,823
ALL AMATEUR RADIO CLUB	589,517
DAYTON AMATEUR RADIO ASSOCIATION	532,538
TENNESSEE VALLEY DX ASSOCIATION	496,051
DERBY CITY DX ASSOCIATION	337,079
PORTAGE COUNTY AMATEUR RADIO SERVICE	322,687
SOUTH TEXAS DX AND CONTEST CLUB	319,112
NEW MEXICO BIG RIVER CONTESTERS	278,265
SOUTH JERSEY DX ASSOCIATION	275,819
SOUTHEASTERN DX CLUB	251,625
SKYVIEW RADIO SOCIETY	248,148
ALBUQUERQUE DX ASSN	215,260
LOW COUNTRY CONTEST CLUB	207,637
GREAT SOUTH BAY AMATEUR RADIO CLUB	123,646
DX	
BAVARIAN CONTEST CLUB	442,951,941
RHEIN RUHR DX ASSOCIATION	304,044,388
CONTEST CLUB ONTARIO	214,201,238
CROATIAN CONTEST CLUB	150,645,797
UKRAINIAN CONTEST CLUB	113,448,426
CONTEST CLUB FINLAND	109,343,594
LU CONTEST GROUP	104,460,386
ARAUCARIA DX GROUP	103,972,870
SLOVENIA CONTEST CLUB	96,754,865
URAL CONTEST GROUP	84,929,053
RUSSIAN CONTEST CLUB	83,990,691
BLACK SEA CONTEST CLUB	69,319,438
SP DX CLUB	67,725,797
KAUNAS UNIVERSITY OF TECHNOLOGY RC	66,039,410
HA-DX-CLUB	61,614,497
LES NOUVELLES DX	54,471,090
FORTALEZA DX GROUP	50,530,967
CT3 MADEIRA CONTEST TEAM	43,042,130
BOSNIA AND HERZEGOVINA CONTEST CLUB	37,821,723
ORCA DX AND CONTEST CLUB	36,460,825
WORLD WIDE YOUNG CONTESTERS	35,043,808
YU CONTEST CLUB	34,803,075
LATVIAN CONTEST CLUB	34,644,098
WEST SERBIA CONTEST CLUB	31,784,886
LA CONTEST CLUB	31,374,123
MARITIME CONTEST CLUB	26,771,466
BELARUS CONTEST CLUB	25,586,031
RADIO CLUB HENARES	25,194,641
SOUTH URAL CONTEST CLUB	24,360,616
CLIPPERTON DX CLUB	23,420,535
LZ CONTEST TEAM	23,115,247
VK CONTEST CLUB	22,533,898
ARIPA DX TEAM	22,322,958
CONTEST GROUP DU QUEBEC	21,657,263
YVTAUTAS MAGNUS UNIVERSITY RADIO CLUB	19,898,282
CHILTERN DX CLUB	19,476,424
BRITISH COLUMBIA DX CLUB	16,962,631
RADIO CLUB VENEZOLANO CARACAS	14,297,760
LITHUANIAN CONTEST GROUP	14,267,052
NICOSIA CONTEST GROUP	13,232,330
ARKTIKA	13,171,937
LYNX DX GROUP	13,098,350
VU CONTEST GROUP	12,394,790
VRHNIKA CONTESTERS	12,074,619
B1Z CLUB	9,271,185
SARATOVSKAYA OBLAST RADIO CLUB	9,055,594
RADIOCLUBUL RADU BRATU	8,764,167
YO DX CLUB	8,612,225
BESSARABIAN CONTEST CLUB	8,509,357
GRIMSBY AMATEUR RADIO SOCIETY	8,152,814
AUSTRIAN CONTEST CLUB	7,279,307
SOUTH GERMAN DX GROUP	6,994,237
GRUPO DXXE	6,956,860
599 CONTEST CLUB	6,916,820
ARA AMIGOS RADIO ALTOARAGON	6,265,015
EAST COAST CANADA CONTEST CLUB	5,752,283
ALMS ST PETERSBURG	5,679,385
GRUPO DX	5,664,522
SP CONTEST CLUB	5,643,698
SASKATCHEWAN CONTEST CLUB	5,637,209
ALBERTA CLIPPERS	5,583,893
IVANOVO DX CLUB	5,450,956
RIO DX GROUP	5,389,753
ANTWERP CONTEST CLUB	5,156,334
HAROS RADIO CLUB	4,668,506
BAHIA DX GROUP	4,478,347
GUARA DX GROUP	4,300,118
CANTAREIRA DX GROUP	4,227,732
UA2 CONTEST CLUB	4,177,775
WEY VALLEY AMATEUR RADIO GROUP	4,026,087
CSM CRAIOVA	4,005,047
CZECH CONTEST CLUB	3,972,944
CENTRAL SIBERIA DX CLUB	3,802,811
BELOKRANJEC CONTEST CLUB	3,754,092
NOVOSIBIRSK CONTEST CLUB	3,509,671
ARCK	3,444,483
DNEPR CONTEST GROUP	3,315,079
KIEL CANAL AKTIVITY GROUP	3,277,885
FALKOPINGS RADIOCLUB	3,190,937
GIPANIS CONTEST GROUP	3,079,610
HUNGARIAN DX CLUB	3,055,135
TEMIRTAU CONTEST CLUB	2,988,675
LA-DX-GROUP	2,929,986
ATCC	2,903,146
RADIO AMATEUR ASSN. OF WESTERN GREECE	2,883,813
TOP OF EUROPE CONTESTERS	2,547,316
VERENIGING VAN RADIO ZEND AMATEURS	2,534,164
RU-QRP CLUB	2,455,201
UNION FRANCAISE DES TELEGRAPHISTES	2,410,058
DANISH DX GROUP	2,331,356
SOUTHERN OSAKA CONTEST CLUB	2,202,833
SK6AW HISSIGENS RADIOKLUBB	2,118,838
TARTU CONTEST TEAM	2,015,097
VLADIMIR RADIO CLUB	1,897,828
ORENBURG CONTEST CLUB	1,845,057
Z37M CONTEST TEAM	1,615,608
KOREA CONTEST CLUB	1,605,581
OMSK RADIO CLUB	1,550,754
SAMARA RADIO CLUB	1,527,801
YAMAL RADIO CLUB	1,419,062
THRACIAN ROSE CLUB	1,371,577
NORTHERN GREECE CONTEST TEAM	1,302,029
OBNSK QRU CLUB	1,294,800
NOVOKUZNETSK RADIO CLUB	1,248,436
PERM RADIO CLUB	1,240,255
CS PETROLUL PLOIESTI	1,209,862
PERUGIA CONTEST CLUB	1,168,180
SAMOTLOR	1,117,519
ARJ ARAD	998,248
R4F-DX-G	948,607
SHAKHAN CONTEST CLUB	940,545
MICHRINSK CONTEST GROUP	849,073
BRACKNELL AMATEUR RADIO CLUB	755,355
MOSCOW RADIO CLUB	731,250
SIAM DX GROUP	673,946
TANGO FOX RADIO FOXES	603,418
STAVROPOL REGION CONTEST CLUB	595,809
MAYCOPSKJ RADIO CLUB	593,484
NOR NIZHEGORODSKOE AR COMMUNITY	573,332
UNITED DX CLUB	532,405
UPPSALA RADIOKLUB	517,342
RADIOCLUBUL QSO BANAT TIMISOARA	510,132
KRIVBASS	487,612
SERPUKHOV RADIO CLUB	482,177
RADIOAMATOR	431,518
CSM BISTRITA	414,684
TRANSILVANIA CONNECTION	411,191
SPORT CLUB MIERCUREA-CIUC	367,294
BASHKORTOSTAN DX CLUB	320,722
BALKAN CONTEST CLUB	320,401
LKK LVIV SHORTWAVE CLUB	317,198
URE BENIDORM	309,878
CSM BAIA MARE	298,701
KKKK CC KRASNODARSKOGO KRAYA	295,319
PODOLSK	271,063
SPEKTR	266,628
ACTIVITY SMOLENSK GROUP	260,511
CSM CLUJ-NAPOCA	253,860
DONBASS	241,919
KEMEROVO RADIO CLUB	227,662
SK70A SWEDISH SOUTHCOAST RADIOA MATEUR SOCIETY	218,618
VOLYN CONTEST GROUP	210,777
GRUPO ARGENTINO DE CW	190,320
GERMAN DX FOUNDATION	151,295
CWJF GROUP	82,276
UR-QRP-CLUB	52,480
ORARI JAKARTA DX CONTEST CLUB	50,877
SVARK	18,268



ED8A (EA8AY), Luis was #1 Africa LP AB.

results of the Xtreme category can be found on the cqww.com and the CQ magazine websites.

Thanks

The final scores you see in the results are the product of a lot of work. The CQ WW Committee uses many log-checking tools to make sure you are listed correctly and the winners receive proper recognition. We try to ensure that the results are as true as possible. The members of the committee who provided insight into many contesting topics are: CT1BOH, DB7MA, DJ6QT, DL6RAI, E21EIC, ES5TV, F6BEE, G0MTN, HA1AG, IK2QEI, JE1CKA, K1AR, K1DG, K3LR, K3WW, K3ZO, K5TR, K5ZD, K6AW, KM3T, KR2Q, KT3Y, LY3BA, LZ2CJ, N2AA, N2NC, N2NT, N3ED,

N5KO, N6AA, N6TR, N6TW, N8BJQ, N9RV, OH2MM, OH6LI, PA3AAV, PP5JR, RA3AUU, S50A, US0LW, VE3EJ, W3ZZ, W5OV, W6OAT, W7EJ, W0YK, YU1EW, and ZS4TX. A special thank you to Ken, K1EA, who has spent countless hours making the CQWW database the best in contesting. We want to thank Barry, W5GN, as well; Barry has provided the process to send certificates to you in a timely manner. We also want to thank Gail, K2RED, for processing all of CQ's contest results and for working closely with the CQ WW CC to help make it all happen.

Congratulations to all the winners and entrants! 73, and CU in the 2012 contests!

Bob, K3EST

(Continued on page 101)

vent two signals on the air at the same time. The CQ WW CC can listen to all the bands all the time via SDR recordings. Two-signal violators can be discovered. The best solution for a SO2R station is to use a hardware lockout which allows only one signal at any time.

Assisted operation: Remember, if you have callsign help finding any QSO in your log, you are in the assisted category. The number of entrants choosing to enter an assisted category continues to grow. We ask that you take the time to declare assisted if you have any help. Maintaining a separation between the assisted and non-assisted categories has been a challenge for the CQ WW CC. The honesty of entrants within the top score box must be our number one priority. The top score box includes all trophy and many certificate winners. Please remember, the use of QSO help—a spotting network of *any kind*—places you in the assisted category. When you do use a spotting aid, please claim to be assisted. Remember, if you plan to try to make the elite Top Score Box, you can count on your log being carefully checked to ensure fair play. The few contesters trying to win a high Top Score position must realize the necessity of *honesty in their efforts*. In a perfect world we would not have to spend extra effort to check potential top contenders; however, some entrants feel they must win even if it means not following the rules. Those few entrants who make the top score box are important because they set an example of what is possible in our sport.

MS category: If you make a mistake in the MS category, please do not change the times in your log. We can find any QSOs you try to "rubber clock." The solution is to place an X in front of the "QSO" in your log. It should now read XQSO. You should then try to rework the station again when you are not in violation.

SDR: Recent advances in software and hardware continue to provide new ways to verify the Top Score box finalists. Through SDR recordings, the CQ WW CC has access to full contest logs for each band. Aside from providing educational data, we can now check whether category violations occur. Even with our publicity, it appears that a few entrants want to win at any cost and do not practice Fair Play. This year we discovered several SO2R stations transmitting on two bands simultaneously.

Xtreme Category

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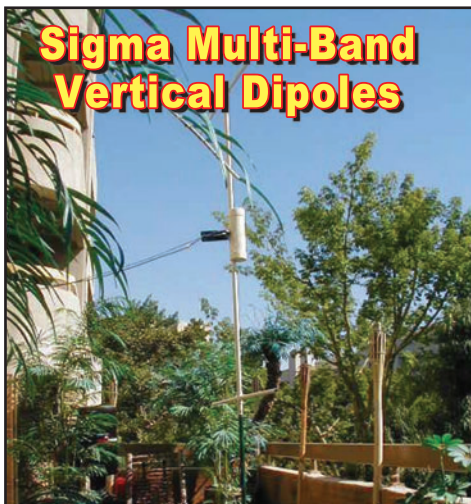
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Results of the 2011 CQ CW DX CW Contest

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.)

2011 WW CW RESULTS SINGLE OPERATOR NORTH AMERICA United States

K1DG	A	10,189,365	4795	163	582
K5SDZ/1	A	10,180,802	4904	168	561
K1N11	A	9,703,400	4910	159	541
K1RX	A	9,099,249	4701	163	510
W1CM	A	6,640,348	3829	143	468
K8P0/1	A	6,441,304	3955	140	469
K02M/1	A	6,019,619	3544	147	460
W1KM	A	5,378,562	3317	133	434
W1WFE	A	4,735,916	2996	130	457
K1FWE	A	4,671,728	2644	111	489
K1ZP	A	4,436,736	3352	111	365
K1ZZ	A	4,281,200	2662	128	428
K1RU	A	3,970,385	2572	138	419
W2UJ/1	A	3,900,398	1825	130	368
W1EQ	A	3,000,688	1524	109	363
W1HS	A	1,295,604	1073	107	331
W1MA	A	1,167,156	1006	102	326
K1SM	A	951,624	493	65	209
W1UK	A	221,390	321	64	138
K1SEZ	A	105,952	227	40	196
W1OHM	A	95,632	232	48	124
K1RM	A	94,536	230	20	84
W1XX	A	6,384	52	25	31
W5EP/1	28	404,073	1071	30	109
N1BA	A	98,637	487	15	62
K1WHS	A	21,224	493	65	209
K810D0	A	17,484	103	14	48
K1KI	14	206,550	499	38	112
W3UA/1	7	1,049,760	2395	34	126
W1MU	A	615,840	1343	36	124
W1FO	A	53,240	187	25	85
W1MK	3.5	404,088	1283	26	87
*K1BX	A	4,115,800	2673	136	444
*K1H10	A	4,310,300	2680	135	435
*W1HT	A	2,485,890	1612	122	356
*K1HT	A	1,155,960	882	116	352
*K1BT	A	1,128,192	938	111	341
*W1AO	A	874,016	827	79	303
*W1CE	A	792,624	769	95	297
*N1DC	A	751,752	724	91	303
*N1FE	A	584,824	75	65	263
*W3SM/1	A	534,468	648	80	242
*K1VJ/1	A	501,200	619	64	216
*W1NK	A	488,499	535	80	259
*K1GGI	A	394,412	507	84	218
*AJ1E	A	344,810	481	68	222
*K1PU	A	322,404	452	75	193
*N81N	A	292,215	424	63	168
*N1JW	A	208,854	365	63	178
*N87A/1	A	201,663	329	63	168
*N1NM	A	188,734	314	58	163
*N1ERD	A	183,209	317	58	163
*W1BHY	A	171,715	236	66	219
*KX1E	A	96,016	276	29	107
*AB10D	A	56,750	159	32	93
*N1MJ	A	45,600	157	27	88
*W1ECH	A	45,790	149	27	88
*K1KJ	A	43,700	129	48	84
*K1EU	A	28,896	93	44	84
*K1A1W/1	A	25,194	114	38	76
*W1DH	A	14,742	96	28	53
*N11MW	A	9,558	107	15	39
*W1PID	A	4,350	49	16	34
*W1HJB	A	4,088	34	25	31
*A1ED	A	3,605	39	13	23
*W1MJ	A	3	0	3	3
*AB1J	28	115,368	360	21	93
*N1JH	A	92,463	283	25	94
*N11VV	A	50,295	182	27	78
*K1MC	A	35,154	174	22	71
*K1G1V	14	41,328	190	17	67
*K11NK	7	5,292	72	13	29
N2NT	A	8,449,290	4282	154	544
N2XL	A	4,080,115	2698	123	410
N2NV	A	4,056,689	2258	150	481
N2X2	A	3,311,808	2100	124	440
N2TA	A	1,727,320	1109	138	482
W2BC	A	1,409,408	1163	122	326
N2LT	(OP:W2RU @W2RU)	826,020	825	68	263
KM2L	A	737,745	73	80	273
K2EYV	A	684,603	702	92	295
WS9M/2	A	562,716	635	86	262
K2SLZ	A	533,664	595	73	254
N2YB	A	511,598	838	81	243
K2MGR	A	325,468	462	82	204
W2TN	A	304,612	394	79	222
K2ZJ	A	252,532	344	55	146
W2LC	A	82,203	204	36	105
W2UDT	A	80,676	182	48	118
K2ESE	A	54,080	162	58	102
K2EL	A	39,732	146	47	85
N2KA	A	5,304	44	19	33
N2UN	28	354,196	861	29	117
N2ME	21	797,280	1772	35	136
KR2AA	14	215,636	640	30	106
W2FW	1.8	62,972	324	20	71
W2VO	A	10,752	80	15	49
K2VZO	A	2,666,103	1895	116	403
*N2JF	A	1,557,465	1169	114	375
*K2UW	A	868,538	766	92	315
*AA2DT	A	497,420	558	82	241
*K2T7	A	466,302	524	75	255
*W2J2DK	A	414,922	420	55	144
*N2UJ	A	366,597	521	54	199
*W2P2	A	292,240	409	74	186
*N2LK	A	264,480	385	78	205
*W2NRA	A	256,476	380	73	197
*K2DBK	A	174,517	284	64	169
*W2BEE	A	155,904	324	64	169
*N11A/2	A	150,930	273	55	158
*N2QK	A	144,872	210	45	144
*K2NPN	A	128,352	322	53	138
*N3S/2	A	119,355	275	63	156
*W2GN	A	113,360	287	66	142
*K2RET	A	105,120	229	49	132
*N2M	A	83,810	198	48	121
W4BAB	A	36,305	148	43	94
N8BJ/4	A	31,408	128	31	73
W08RYC/4	A	31,024	101	33	79
W5XK/4	A	12,556	91	33	53
AA4GT	A	10,608	61	28	50
NK2F/4	A	5,040	144	28	53
K2EUH/4	A	4,018	33	23	28
KE4YH	A	1,519	26	12	19
W4VZ	28	914,166	1891	37	134
W5MX/4	A	523,733	1143	33	128
W4NZ	A	393,384	936	33	115
K2EK/4	A	376,388	946	34	112
W9WV/4	A	351,392	916	31	108
KSRQ/4	A	255,104	795	29	93
W1M0/4	A	232,407	564	32	115
K4FJ	21	542,925	1174	36	135
W02REM/4	A	27,872	108	31	73
K9K0/4	A	3,822	40	11	28
N4TB	14	416,640	1001	38	117
K4RDU	A	125,730	349	30	97
K9P/4	7	227,420	733	29	108
N4PN	3.5	362,091	1071	28	109
K4PI	1.8	76,956	307	23	83
K4EJQ	A	1,430	20	8	18
*N4YDU	A	3,233,344	2016	139	469
*N4PT/4	A	2,707,120	1792	132	416
*N2WN/4	A	2,108,148	1436	148	456
N9CN/4	A	2,406,712	1354	134	434
*N4AK	A	1,847,830	1296	127	387
*K4ND	A	1,460,230	1181	126	380
*N4PSE	A	686,700	711	91	259
*K4ORD	A	563,568	623	97	257
*W4GDG	A	481,069	590	72	235
*K4MX	A	478,540	505	89	266
*K4CC	A	457,938	525	81	228
*N4B	A	457,520	493	102	242
*W0KHP/4	A	403,920	452	93	237
*N4IA	A	319,151	367	100	204
*K4IE	A	386,308	507	75	224
*N4Y1/4	A	359,736	421	74	238
*W4RYW	A	352,032	426	90	214
*W4NZC	A	270,101	396	69	194
*K4EYK	A	232,317	356	61	169
*N4EK	A	226,320	381	61	169
*N4GR	A	216,006	315	63	176
*N4J1	A	204,954	307	63	176
*K4NC	A	196,240	335	64	159
*N4OX	A	181,908	345	47	139
*W4KLY	A	164,256	292	72	160
*K4OQG	A	161,675	264	68	155
*K4ICBN	A	156,384	310	54	162
*N4ESS	A	141,960	290	60	135
*W0D0G/4	A	135,361	357	65	158
*K4FJW	A	131,022	284	60	164
*N3T/4	A	130,398	245	65	141
*K130/4	A	125,970	240	67	154
*K4AR	A	117,808	232	62	129
*K4NP	A	117,806	250	70	135
*W3TB/4	A	96,148	203	51	121
*K3M/2	A	94,688	193	55	121
*N4OX	A	87,156	263	50	112
*K4HOK	A	86,822	161	51	126
*K4TMM	A	84,943	219	54	119
*W3SA/4	A	77,436	246	47	115
*W4BCU	A	71,991	181	56	115
*K9IA/4	A	70,808	236	46	121
*W4ENN	A	68,200	215	40	94
*K4BKS	A	64,940	155	52	118
*K4VU	A	63,940	153	48	104
*K4RQ	A	62,928	168	52	100
*K4SPD	A	54,016	172	36	92
*K1GW/4	A	53,932	166	34	105
*W4MNMK	A	53,136	156	55	109
*K4SNZR/4	A	52,572	158	60	96
*K4AGT	A	49,612	140	53	105
*W4EBA	A	48,191	166	44	99
*K4DRL	A	38,354	167	45	99
*K4JAO	A	37,530	161	45	99
*W4S4F	A	36,288	124	44	82
*W4EUL	A	31,400	124	30	67
*K4CX	A	28,616	113	31	67
*AD8J/4	A	26,481	112	30	67
*K5AL	A	26,000	99	41	63
*K4DZR	A	24,444	141	32	65
*W4B4M	A	22,936	111	43	79
*N4X4	A	22,242	145	25	61
*K4IEZC	A	21,150	97	33	61
*A4IUN	A	19,580	97	38	51
*K4ALE	A	19,448	104	23	62
*AA4N	A	19,404	81	37	62
*W480JR/4	A	18,360	108	19	49
*AA3VA/4	A	17,664	78	41	55
*W4T7/4	A	17,360	83	43	56
*AC6NN/4	A	16,020	78	33	56
*N830/4	A	15,668	89	28	54
*W4ZPR	A	14,949	95	22	61
*K1FR/4	A	14,070	75	19	48
*N4MJ	A	13,416	64	27	51
*W4YDY	A	13,416	73	29	49
*K6RM/4	A	8,364	69	10	31
N4NO	A	6,254	42	20	34
*W4R1D/4	A	5,307	48	27	34
*W4PWJ	A	3,920	47	7	28
*K4AKP	A	3,201	25	12	19
*AA4LR	A	1,947	27	15	18
*N4PF	A	1,188	17	12	15
*W4BDH	28	345,774	845	31	112
*W24Z	A	35,247	182	27	62
*N4Y4	A	17,204	128	31	73
*K4JC	A	10,670	76	23	32
*W4AGG	A	10,428			

W310/8	*	727,308	753	80	276	KOEU	"	4,079,301	2536	150	447	VE3JM	"	6,672,204	5013	118	404	Turks & Caicos	"	UASGAW	*	300,146	736	31	123				
K8MP	*	606,624	762	79	205	K9DUU/0	"	2,526,930	1602	145	428	VE3JO	"	4,994,424	3575	142	426	*PV5CW	A	5,805,954	5597	115	347	*UASGAW	*	300,146	736	31	123
N8P	*	553,878	590	91	260	WABMHJ/0	"	2,385,872	1311	156	500	VA3AR	"	523,872	970	90	231	"R8SD	"	2,149,890	352	68	179	*RKSD0	"	276,816	491	59	178
WB0HT	"	372,039	470	90	231	NEUJ	"	2,320,711	1647	127	382	VE3PN	28	91,266	522	24	58	*R8UJ	"	204,823	360	63	176	*R8R9F	"	204,823	360	63	176
W36N/0	"	368,010	542	70	212	K6X7E/0	"	2,257,270	1553	145	385	VE3CX	28	571,680	1657	32	112	AFRICA	"	204,085	363	68	177	*R8S1Y	"	198,024	399	46	94
N8F4	"	243,621	325	63	136	K6JEL	"	1,440,643	1174	121	330	VE3MIS	14	541,120	1577	37	115	African Italy	"	172,699	344	51	127	*R8KUM	"	170,556	319	66	83
K8FL	"	224,640	322	94	194	K6JEL	"	337,944	677	707	289	VE3ZJ	1.8	117,390	614	74	24	H9R	7	1,611,584	3701	34	115	*R8VSW	"	156,416	308	65	143
K8MN	"	214,485	325	64	173	K0AP	"	720,948	598	118	320	VE3UZ	"	864	42	6	6	(OP:Z1GAR)	"	132,022	327	55	132	*UASJN	"	107,092	256	41	123
W8ZA	"	129,132	295	55	149	K0CF	"	661,560	644	95	275	VE3SB	"	855	30	7	12	"DQ2V	28	1,477,440	3177	37	123	*R8QJ	"	103,874	307	40	127
WABRCN	"	105,944	279	42	122	W0ZA	"	594,058	774	99	218	*VE3FDT	A	2,054,634	1915	117	326	Angola	"	95,368	250	56	126	*R8RBS	"	95,368	250	56	126
N8EC1	"	64,170	183	50	105	AB0RX	"	549,945	549	97	266	*VE3GFC	"	1,028,608	1059	98	294	Ascension Island	"	88,550	237	45	116	*R8ASN	"	88,550	237	45	116
K8ALM	"	8,128	58	21	43	W0GM	"	393,128	473	87	226	*VA3EC	"	955,121	1179	97	240	ZD8X	A	1,927	22	20	21	*R8R9F	"	73,080	189	46	94
W8NR	"	6,527	49	27	37	K0VYU	"	379,845	451	98	247	VA3ATT	"	744,462	833	80	274	ZD8N	21	306,774	1038	29	85	*UASMW	"	50,320	136	51	119
K8LD	"	3,022	28	22	27	W0EJ	"	357,964	422	121	330	VE30M	"	666,200	336	73	242	EF8M	A	15,846,012	7873	160	531	*R8R9F	"	50,320	136	51	119
NAZ/R/0	"	195	9	6	9	K0JE	"	321,924	348	101	285	VE3HLS	"	260,348	412	56	188	EF8S	3.5	995,877	2294	35	118	*R8R9F	"	205,011	1178	18	63
N8II	28	718,060	1585	35	126	K0JUR	"	231,030	362	82	173	VE3L3L	"	246,148	422	63	173	*E8A8	A	4,979,900	4592	96	284	*R8R9F	"	205,011	1178	18	63
N8FR	"	86,025	268	26	85	K0ALT	"	224,455	329	87	178	VE3BVA	"	241,621	393	70	163	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
K8IR	"	81,054	268	28	86	K0KBD	"	211,344	262	94	242	*VA3KJ	"	189,570	362	64	149	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
W8AKAN	"	9,790	72	14	41	W8MHW/0	"	206,416	290	77	189	VE3KJF	"	155,420	319	57	133	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
WBUD	21	88,320	261	30	90	W0ZQ	"	186,874	328	63	160	VE3FJ	"	130,510	294	54	136	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
KF6A/0	7	204,255	579	29	106	K0VQ	"	85,008	205	63	113	VE3RCN	"	101,400	258	45	99	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
K032	"	83,818	303	26	92	N0KQ	"	81,144	209	70	98	VA3FN	"	90,190	157	45	100	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
N8AGU	3.5	49,599	198	20	79	W0SHL	"	8,040	117	72	71	VA3FK	"	42,149	284	36	77	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
*N8AA	A	3,868,382	2103	153	505	N0BUI	"	8,064	60	10	38	VE3KX	"	19,110	140	33	45	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
*K8VQ	"	1,464,700	1144	115	370	W0RUK	"	5,994	44	24	30	VE3FWF	"	13,936	83	26	41	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
*W8BJU	"	1,004,796	750	125	369	N7DR/0	28	375,033	909	30	119	VA3UJ	"	5,508	54	20	31	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
*WB8TL	"	922,485	770	118	327	K0PK	"	179,727	461	31	108	VE3CZS	"	575	22	13	10	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
*W8K7U	"	701,908	873	97	282	W19Q/0	21	55,968	235	25	71	VE3T6	"	122,211	408	24	87	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
*N8DE	"	570,732	521	103	295	KZHT/0	3.5	2,146	32	12	17	VE3T6	"	122,211	408	24	87	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
*N8XZ	"	518,862	461	121	330	N8TT	1.0	812,848	777	119	285	VE3GUU	14	48,132	280	22	62	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
*K8BJ	"	501,714	580	80	246	W0ETT	A	699,746	762	109	253	VE3NR	7	89,400	333	21	85	*E8A8N	28	42,570	177	28	71	*R8R9F	"	205,011	1178	18	63
*W8IDM	"	308,550	416	75	200	*N0KK	"	541,995	575	96	249	VE3NSZ	3.5	85,760	455	16	64	*J28R0	28	732,846	1963	31	103	*R8R9F	"	205,011	1178	18	63
*K8MEG	"	296,010	424	64	189	*K10I	"	291,023	368	89	200	VE4EAR	A	516,216	492	115	296	*G6SMP	A	125,224	485	26	62	*R8R9F	"	205,011	1178	18	63
*N5EE/8	"	181,044	371	45	143	*N0GT	"	289,344	408	89	185	*E4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*N8FM	"	162,344	272	74	149	*W0PI	"	228,245	338	78	161	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*K8B0	"	96,202	273	69	137	*KN0V	"	157,950	389	99	198	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*K8BTL	"	89,377	232	63	106	N0JUY	"	139,530	324	69	112	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*W8CRP	"	78,196	92	41	109	*N0GDS	"	128,832	255	55	137	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*K8VUS	"	75,932	185	53	111	*K0SOM	"	111,639	296	64	123	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*W08BAH	"	73,515	207	47	122	*K0LDS	"	87,500	198	65	110	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*W8TM	"	57,884	181	29	87	*N7A/0	"	74,664	195	51	132	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*W8DW	"	57,420	206	58	107	*W9GHX/0	"	68,820	207	55	93	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*N8WS	"	44,274	149	47	94	*AD0H	"	54,520	182	56	89	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*W8YVYF	"	34,440	128	42	78	*AD0DX	"	54,016	145	40	88	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*K8AB	"	22,372	107	43	76	N0BDM	"	157,851	324	69	112	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*K8B9U	"	19,410	91	19	40	*K0COSTO	"	31,790	116	39	71	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*K8RJKW	"	14,101	91	19	40	*K0COSTO	"	31,790	116	39	71	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*W8BUMT	"	12,144	79	26	43	*W6GNT/0	"	24,948	121	35	64	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63
*N8IE	"	11,850	59	23	52	*W0RK	"	23,562	91	40	62	VE4YU	A	200,750	354	80	143	*G6SXA	21	863,343	2074	32	109	*R8R9F	"	205,011	1178	18	63

*B6G6JR	*	1,375	23	13	12	*JA1CPZ	*	29,889	156	31	50	*JH3PTC	*	86,310	265	60	77	*JR0F0G	*	47,188	189	44	50	
*BDZTBJ	*	7,783	23	13	16	*JA1D00	*	28,852	123	40	55	*JH3NDM	*	85,467	235	76	107	*JEBCEA	*	70	8,721	70	25	32
*BA4U	28	113,008	568	23	69	*JA1D00	*	28,852	149	33	63	*JH3V03	*	82,643	217	50	83	*JH3CFA	28	43,152	207	32	61	
*BD2BT	*	46,080	237	23	57	*JA1D0T	*	27,666	118	43	63	*JH3R0C	*	61,468	225	53	68	*JH8DJB	*	13,034	100	20	29	
*BD7KH8	*	29,548	182	26	57	*JA1WFK	*	27,192	117	44	59	*JH3BYX	*	45,342	212	40	59	*JG8TDZ	*	6	1	1	1	
*BG3TBS	*	14,880	120	20	20	*JM1MXY	*	26,226	147	41	52	*JA3JND	*	37,570	197	32	53	*JAMMXC	7	13,806	94	26	33	
*BH4RUQ	*	8,800	97	20	24	*JE1CAC	*	23,933	110	40	51	*JA3BLN	*	34,452	118	51	57							
*BH4MYL	21	36,864	282	23	49	*JL3DGP	*	23,364	111	44	55	*JA3KJG	*	28,747	114	24	65	*JA9JFO	A	323,469	527	97	186	
*BH4RRG	*	36,660	298	26	52	*JR1ATA	*	22,275	102	35	46	*JA3AHY	*	21,829	118	35	48	*JR9KVT	A	74,124	223	55	87	
*BD4SS	*	31,302	268	23	51	*JA1JSC	*	21,894	113	42	47	*JA3JNO	*	20,203	95	30	59	*JH9KWF	28	262,272	812	36	92	
*BH1HU	*	21,660	129	19	35	*JA1JSC	*	21,894	100	33	42	*JA3JNO	*	20,203	95	30	59	*JA9CJW	14	266,564	719	32	100	
*BD4SVB	*	882	22	7	14	*JG1FLR	*	16,544	74	35	59	*JA3DAU	*	16,132	94	28	46	*JA9EJG	*	69,224	198	49	87	
*BD6IC	*	819	33	11	10	*JF1UOX	*	14,884	114	25	36	*JG3LDD	*	10,064	81	35	39	*JA9LX	*	56,769	153	54	95	
*BD4QA	14	9,062	129	18	28	*JH1SBE	*	13,416	73	31	47	*JH1XG/9	28	10,820	73	25	27	*JH1XG/9	28	47,310	226	30	53	
*BD4LJM	*	7,791	97	20	33	*JA1HG	*	11,322	67	35	39	*JE1EVI	*	5,537	59	24	25	*JA9D0F	3.5	6,120	77	14	26	
*BD4JW	*	2,475	47	14	19	*JH1HOX	*	11,152	73	32	36	*JG3EHD	*	462	14	6	5							
*BD30M	*	1,296	24	11	16	*JA1LJW	*	10,971	86	32	37	*JH3M3X	*	231	7	5	6	*JH9JNP	A	678,424	950	109	165	
*BG2AUE	7	84,214	587	26	53	*JA1LJW	*	10,971	86	32	37	*JH3M3X	*	231	7	5	6	*JH9JNP	A	678,424	950	109	165	
*B83CY	*	15,240	127	21	39	*JK1GAM	*	10,545	74	32	41	*JH3D5H	28	77,469	330	50	63	*JH9JNP	A	678,424	950	109	165	
*BA4SE	*	2,116	65	11	12	*JH1EYM	*	9,000	52	30	45	*JH3VAX	*	34,855	200	25	49	*JH9JNP	A	678,424	950	109	165	
*BA4SCP	*	32	6	2	2	*JH1EYM	*	9,000	52	30	45	*JH3MCM	*	22,849	148	25	48	*JH9JNP	A	678,424	950	109	165	
*BD2RJ	3.5	539	69	3	4	*JH1EYM	*	9,000	52	30	45	*JH3MCM	*	22,849	148	25	48	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190	49	32	33	*JH3R3E	*	12,600	106	19	31	*JH9JNP	A	678,424	950	109	165	
						*JK1OXU	*	8,190																

LZ5K	A	2,984,256	3920	(OP:1L7)	*OK1JPO	69,237	296	46	101	*ES4MM	A	185,556	318	86	196	*UA6G	394,550	885	77	248	*RT3D	109,475	341	35	110
					*OK1AFB	64,436	227	45	133	*ES5EP	156,598	370	59	158	*RA3CAO	383,738	861	76	237	*RA3SO	383,738	861	76	237	*RA3SO
LZ1BJ	A	1,824,900	2281	(OP:1L5)	*OK1JST	71,305	293	42	81	*ES1PN	28	55,820	276	31	39	*UA3VDO	365,112	1255	57	207	*RA1LK	87,714	493	29	73
					*OK2DX	53,015	190	41	74	*ES5OA	52,488	253	27	81	*UA1CEC	365,112	1255	57	207	*UA4UL	87,714	493	29	73	*UA4UL
LZ2DF	A	1,683,190	1497	135	*OK2HFC	47,508	223	36	71	*ES6CO	21	22,984	144	26	42	*R3EA	355,593	803	67	220	*R6GAH	68,034	392	26	78
					*OK2SVD	36,822	253	28	86	*ES1LS	19,267	343	25	72	*UA1TGO	349,830	697	71	228	*R6KMY	60,390	326	27	83	*R6KMY
LZ1MS	A	197,543	758	89	*OK2KFK	25,382	153	31	67	*ES4RR	24	15,939	146	18	51	*R4NUC	341,550	556	97	248	*R4NSN	51,639	195	33	106
					*OK1HL	10,701	118	25	62	*R3UXY	328,185	685	71	226	*R3UJA	328,185	685	71	226	*R3ZIC	38,220	180	29	76	*R3ZIC
LZ1QN	A	125,337	669	32	*OK1DUB	1,500	20	14	11	European Russia	A	3,699,806	3981	143	438	*R3UJA	324,792	632	91	256	*R3UJA	324,792	632	91	256
					*OK1JST	71,305	293	42	81							*R3UJW	305,419	836	62	217	*R3UJW	305,419	836	62	217
LZ24N	A	49,290	148	54	*OK2D1J	164,320	457	37	122	*R3UJX	3,526,273	3863	155	517	*R3UJY	260,426	636	83	234	*R3UJZ	23,260	220	22	54	
					*OK1MNV	135,540	401	33	103	*R3INA	300,188	724	71	231	*R3INA	300,188	724	71	231	*R3KAO	27,216	166	23	58	*R3KAO
LZ2JH	A	29,502	181	33	*OK1CZ	135,000	456	34	101	*UA1QM	1,834,948	1889	31	500	*UA4RW	298,224	403	109	347	*R7AC	26,325	206	22	53	
					*OK1XV	62,500	210	33	92	*UA4RW	298,224	403	109	347	*R7AC	26,325	206	22	53	*R7AC	26,325	206	22	53	*R7AC
LZ21OZ	A	18,626	198	16	*OK2BNF	49,220	274	26	66	*UA4PN	1,687,510	1971	127	402	*R3ACZ	280,720	677	66	224	*R7AK	23,822	108	28	58	
					*OK1DRX	27,115	136	25	60	*R3ACZ	280,720	677	66	224	*R7AK	23,822	108	28	58	*R7AK	23,822	108	28	58	*R7AK
LZ3VY	A	2,693,150	2635	10	*OK2BYB	23,130	163	24	30	*R3P3A	1,524,824	1977	121	390	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	
					*OK2SSJ	14,688	140	13	38	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	*R4D4F
LZ1ZR	A	667,798	1057	95	*OK1R3D	10,476	92	18	36	*R4D4F	1,211,232	1765	101	396	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	
					*OK1KJZ	9,801	112	13	20	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	*R4D4F
LZ1ZQ	A	343,452	736	80	*OK1KJZ	9,801	112	13	20	*R4D4F	1,194,046	1198	129	424	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	
					*OK1KJZ	9,801	112	13	20	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	*R4D4F
LZ1ZM	A	330,956	617	77	*OK1KJZ	9,801	112	13	20	*R4D4F	941,367	1277	114	369	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	
					*OK1KJZ	9,801	112	13	20	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	*R4D4F
LZ1ZP	A	194,910	374	72	*OK1KJZ	9,801	112	13	20	*R4D4F	92,723	1491	93	340	*R4D4F	238,336	537	74	182	*R4D4F	238,336	537	74	182	
					*OK1KJZ	9,801	112	13	20	*R4D4F	238,336	537	74	182	*R4D4F	238,336	537	74	182	*R4D4F	238,336	537	74	182	*R4D4F
LZ1ZQ	A	333,324	690	70	*OK1KJZ	9,801	112	13	20	*R4D4F	1,524,824	1977	121	390	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	
					*OK1KJZ	9,801	112	13	20	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	*R4D4F
LZ1ZL	A	49,290	148	54	*OK1KJZ	9,801	112	13	20	*R4D4F	1,211,232	1765	101	396	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	
					*OK1KJZ	9,801	112	13	20	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	*R4D4F
LZ1ZK	A	29,502	181	33	*OK1KJZ	9,801	112	13	20	*R4D4F	941,367	1277	114	369	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	
					*OK1KJZ	9,801	112	13	20	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	*R4D4F
LZ1ZJ	A	330,956	617	77	*OK1KJZ	9,801	112	13	20	*R4D4F	92,723	1491	93	340	*R4D4F	238,336	537	74	182	*R4D4F	238,336	537	74	182	
					*OK1KJZ	9,801	112	13	20	*R4D4F	238,336	537	74	182	*R4D4F	238,336	537	74	182	*R4D4F	238,336	537	74	182	*R4D4F
LZ1ZI	A	194,910	374	72	*OK1KJZ	9,801	112	13	20	*R4D4F	1,524,824	1977	121	390	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	
					*OK1KJZ	9,801	112	13	20	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	*R4D4F
LZ1ZO	A	343,452	736	80	*OK1KJZ	9,801	112	13	20	*R4D4F	1,211,232	1765	101	396	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	
					*OK1KJZ	9,801	112	13	20	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	*R4D4F
LZ1ZM	A	49,290	148	54	*OK1KJZ	9,801	112	13	20	*R4D4F	941,367	1277	114	369	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	
					*OK1KJZ	9,801	112	13	20	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	*R4D4F
LZ1ZL	A	330,956	617	77	*OK1KJZ	9,801	112	13	20	*R4D4F	92,723	1491	93	340	*R4D4F	238,336	537	74	182	*R4D4F	238,336	537	74	182	
					*OK1KJZ	9,801	112	13	20	*R4D4F	238,336	537	74	182	*R4D4F	238,336	537	74	182	*R4D4F	238,336	537	74	182	*R4D4F
LZ1ZK	A	194,910	374	72	*OK1KJZ	9,801	112	13	20	*R4D4F	1,524,824	1977	121	390	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	
					*OK1KJZ	9,801	112	13	20	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	*R4D4F	267,270	491	78	217	*R4D4F
LZ1ZJ	A	49,290	148	54	*OK1KJZ	9,801	112	13	20	*R4D4F	941,367	1277	114	369	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	
					*OK1KJZ	9,801	112	13	20	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	*R4D4F	248,360	584	78	202	*R4D4F
LZ1ZI	A	343,452	736	80	*OK1KJZ	9,801	112	13	20	*R4D4F	1,211,232	1765	101	396	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222	
					*OK1KJZ	9,801	112	13	20	*R4D4F	260,420	596	68	222	*R4D4F	260,420	596	68	222						

F5POJ	269,360	670	68	192	*DL5ARM	794,205	1219	89	316	*DF7JC	14,749	115	24	25	IR7A	64,428	195	60	122	*LY3ID	134,290	673	29	101			
F5YJ	243,860	590	66	208	*DL5BFP	698,460	837	110	310	*DF8IS	14,601	138	26	67	IK1CCS	53,694	204	49	108	*L2YND	4,788	167	5	31			
F5R1W	93,279	127	14	12	*DL5ISAN	686,308	692	92	194	*DL1MGP	13,889	107	29	64	IK2IKW	50,820	178	49	105	Luxembourg							
F6B2Z	59,983	248	43	90	*DL1TRK	592,812	866	91	305	*DL8JDX	13,440	177	25	55	IZ8EDL	49,280	182	48	128	LX1NO	21	394,160	1601	34	96		
F5LLE	27,140	119	42	73	*DL5LYL	580,492	1075	79	255	*DJ2FR	13,124	155	14	54	IK2YXP	40,733	150	46	115	LX2LX	3.5	6,876	177	6	30		
F6B8R	587,284	1583	39	125	*DL4JYT	562,944	943	92	292	*DH6YMC	12,716	105	25	43	IZ1DFG	3,816	34	19	34	(OP:LX1NO)							
TM2B	233,103	836	32	97	*DL4AC	556,893	803	92	295	*DF8XC	12,270	83	24	38	IK2SND	206,762	190	30	101	Macedonia							
					(OP:FBCIL)	549,486	1003	78	265	*DL3SEM	11,748	93	25	41	IZ2VA	179,193	481	32	115	Z3ST	28	500,240	1430	37	148		
F6GDX	42	4			*DM3CV	541,024	779	89	263	*DJ8LX	11,284	85	27	35	IK2AHB	277,695	912	94	118	Z3WV	1.9	396,294	1120	17	68		
F6BEE	769,678	1895	39	143	*DL3JVL	506,688	722	88	248	*DL3VW	11,284	85	27	35	IK2EFS	118,141	834	24	79	Z3S5	28	500,240	1430	37	148		
TM2T	411,438	1501	33	108	*DK3KD	491,057	1009	24	100	*DK2TE	10,413	87	29	60	IK2EFS	118,141	834	24	79	Z3XU	28	46,690	389	15	55		
					(OP:FPORF)	481,032	988	26	240	*DK7CH	10,413	87	29	60	IR2R	7,687,336	2417	34	122	Z3Z5	28	924	21	10	18		
F6DDR	1,74,997	981	12	59	*DL4ZA	470,808	993	74	238	*DL4EBW	9,856	115	24	53	*IK4UNH	619,115	926	86	275	Z3Z6	28	46,690	389	15	55		
*F6FTB	1,568,241	1588	110	403	*DL5JBN	468,312	802	74	238	*DL3XM	9,856	99	19	49	*IK3XP	609,708	377	104	343	Z3Z7	28	160,691	966	29	72		
*F5IJJ	511,082	925	68	218	*DJ9CN	427,375	801	76	249	*DL3RC	9,234	93	24	33	*IR1X	354,450	990	69	209	Malta							
*F5JVJ	349,680	485	86	196	*DL1TS	384,160	599	91	252	*DL1AZA	8,768	106	19	45	*IF6DJ	285,935	695	67	198	9H9B	A	4,951,625	978	132	413		
*F5VJW	337,762	664	75	206	*DL3FZN	368,030	727	83	215	*DL5ASE	7,740	65	24	36	*IZ4DYX	283,328	101	58	175	9H1XT	1	469,000	919	39	251		
*F6HHR	310,732	700	61	201	*DL3GV	348,168	723	69	198	*DL3YEE	6,958	61	28	43	*IF6FG	177,741	426	70	157	9H3PP	21	585,316	2037	39	127		
*F5S9J	295,920	822	72	202	*DK3VM	346,511	693	74	215	*DL3GM	6,540	112	10	50	*IK2TYP	165,360	483	50	80	(OP:HASPP)							
*F5LJM	277,420	599	71	189	*DJ7AT	335,244	945	73	200	*DB1CP	6,499	69	24	43	*IV3ARJ	153,780	418	60	160	Moldova							
*F5AQB	229,878	529	71	226	*DL3EBX	326,284	670	73	228	*DL5NE	6,290	59	24	50	*IV3BCA	139,468	326	75	163	*ER3AU	A	558,566	1042	87	275		
*F9DK	203,184	618	51	153	*DL5KM	289,690	572	72	223	*DL6ZBN	5,772	77	16	36	*IR2ITA	124,695	485	46	117	*ER5DX	A	434,442	589	95	271		
*F5LCU	188,931	422	62	151	*DL5JRA	288,765	589	71	208	*DL3ARH	4,815	52	21	24	*IZ4VYX	283,328	101	58	175	*ER5AA	A	138,466	496	55	146		
*F5KLE	97,152	347	52	124	*DL4EPM	278,575	708	68	207	*DL5LWM	3,510	40	20	34	*IR2ITB	124,695	485	46	117	*ER100	21	134,463	598	30	103		
					(OP:FSUNT)	273,304	596	65	189	*DL3FB	3,087	60	14	35	*IZ4VYX	283,328	101	58	175	*ER2RM	1.8	27,083	355	12	67		
*F5RDP	95,742	300	19	113	*DL3VWG	257,834	611	70	203	*DL8UAA	2,674	47	18	29	*IZ4VYX	283,328	101	58	175	Netherlands							
*F8AAE	89,568	566	41	103	*DK7GH	245,816	611	80	193	*DL3DX	2,669	35	12	12	*IK2BGT	105,045	329	37	167	PA3AAV	A	3,981,019	1318	145	514		
*F6AUN	77,190	234	61	125	*DK1LRS	241,230	636	62	193	*DL3DXF	1,584	33	12	12	*IK2ZMP	102,490	394	49	136	PA0CYW	A	893,922	3388	94	289		
*F8BDE	66,660	330	43	122	*DK5IM	238,700	706	46	174	*DL7AT	1,404	29	11	16	*IK2ZMP	102,490	394	49	136	PA0JNH	A	694,891	865	102	307		
*F6CJT	52,220	286	38	102	*DL1RTS	238,349	574	61	180	*DK2AB	1,353	25	13	20	*IK2ZMP	102,490	394	49	136	PA0LO	A	675,130	819	90	273		
*F6CZV	48,884	234	37	84	*DL2GBB	234,600	445	79	176	*DC2PJ	1,333	32	17	26	*IK2ZMP	102,490	394	49	136	PA0LH	A	686,386	1150	98	248		
*F5MIMB	48,400	206	39	82	*DL5CL	221,948	446	79	192	*DK4EF	1,924	20	13	15	*IK2ZMP	102,490	394	49	136	PA1CW	A	205,326	696	46	137		
*F6FNA	42,614	198	46	97	*DL8UL	221,552	579	62	182	*DK3FB	532	12	9	10	*IK2ZMP	102,490	394	49	136	PA1LN	A	170,624	595	45	127		
*F5AKL	40,664	84	17	43	*DL3FB	219,011	494	67	154	*DK3FB	532	12	9	10	*IK2ZMP	102,490	394	49	136	PA1TX	A	4,307	166	19	40		
*F8DYO	38,868	151	43	83	*DL8MAS	210,816	512	54	180	*DL4AAE	28	350,581	991	33	124	*IK5PXX	31,772	149	35	59	PA2BR	A	201,564	1334	19	80	
*F5NSB	34,453	145	42	89	*DL7UX	210,100	529	56	164	*DL3DTH	28	261,689	465	36	131	*IK2NCF	103,624	128	41	75	PA2GH	A	752,556	1289	76	281	
*F4FSV	34,077	167	37	74	*DJ9DX	206,986	514	59	188	*DF4ZL	125,960	398	30	104	*IK2NCF	103,624	128	41	75	PA2MBD	A	442,017	883	79	242		
*F5BTH	33,087	161	41	82	*DL2ANM	185,832	486	71	190	*DF4ZL	125,960	398	30	104	*IK2ZMP	102,490	394	49	136	PA3VCI	A	439,992	1005	76	248		
*F5IHP	18,300	149	24	76	*DL1ARJ	180,616	480	63	151	*DK4WF	118,031	386	32	99	*IK2ZMP	102,490	394	49	136	PA3TCG	A	414,024	691	80	232		
*F5OZK	17,520	99	31	42	*DL4YR	180,300	531	50	100	*DL7DZ	77,368	211	33	119	*IK2ZMP	102,490	394	49	136	PA3BDS	A	390,122	1101	62	152		
*F3WTT	17,177	114	32	57	*DL8DX	179,244	509	60	174	*DL5SWB	70,876	340	28	66	*IK2ZMP	102,490	394	49	136	PA3BIZ	A	316,838	402	53	116		
*F5AKL	5,892	54	17	43	*DL3FB	174,888	592	47	153	*DL2RZG	56,925	219	31	68	*IK2ZMP	102,490	394	49	136	PA3BVC	A	390,122	1101	62	152		
*F5GGL	5,772	54	29	45	*DF4TD	172,848	265	18	199	*DL1YF	52,100	291	28	72	*IK2ZMP	102,490	394	49	136	PA3CVC	A	390,122	1101	62	152		
*F8KGS	5,358	47	26	31	*DL8UKE	169,708	451	62	147	*DL3ARK	38,175	209	23	52	*IK2ZMP	102,490	394	49	136	PA3CVM	A	390,122	1101	62	152		
*F8GGO	4,902	75	11	32	*DL7RV	169,176	447	62	166	*DL3DRN	30,932	183	23	53	*IK2ZMP	102,490	394	49	136	PA3ANN	A	248,832	715	71	217		
*F5UTN	236,599	858	35	102	*DK3WM	165,912	364	67	181	*DL7YAD	14,200	88	27	44	*IK2ZMP	102,490	394	49	136	PA2GRU	A	248,832	715	71	217		
*F8AKC	196,300	595	35	116	*DL7BY	164,268	469	37	119	*DL1ARD	8,568	92	19	37	*IK2ZMP	102,490	394	49	136	PA2PCH	A	240,352	645	63	161		
*F8NHU	51,336	231	26	67	*DL2ASB	162,792	394	71	167	*DL3SBD	4,264	48	21	31	*IK2ZMP	102,490	394	49	136	PA2FHW	A	228,420	704	53	190		
*F5PAL	14,208	124	19	29	*DL1AK	162,533	465	54	163	*DL2KWB	2,180	40	9	11	*IK2ZMP	102,490	394	49	136	PA2QRC	A	148,350	279	68	147		
*F5G50	7,560	60	17	43	*DL3ZRN	157,028	440	46	148	*DL1YF	52,100	291	28	72	*IK2ZMP	102,490	394	49	136	PA2GAC	A	147,626	417	61	162		
*F6DYJ	21	58	18	58	*DL509	150,969	419	62	175	*DL8UVG	6,400	248	11	26	*IK2ZMP	102,490	394	49	136	PA2JRM	A	116,638	402	53	116		
*F9KPK	14	133,378	802	22	76	*DL7FA	138,902	413	57	142	*DL9ZP	24	243,672	968	32	110	*IK2ZMP	102,490	394	49	136	PA2JCH	A	101,748	361	48	135
*F5MPN	30,084	336	18	51	*DL7UGO	137,536	365	57	167	*DL9LM	18,700	747	34	106	*IK2ZMP	102,490	394	49	136	PA2MGM	A	96,681	337	51	150		
*F5MWW	7	75,900	489	21	79	*DJ2PJ	137,158	272	68	134	*DL4XU	68,544	462	21	75	*IK2ZMP	102,490	394	49	136	PA2GRU	A	248,832	715	71	217	
*F5PZR	1.8	8,256	168	6	42	*DL1BA	135,605	403	50	135	*DL3VZL	28	283,136	1432	28	100	*IK2ZMP	102,490	394	49	136	PA2PCH	A	240,352	645	63	161
						(OP:DFZP)	132,912	493	48	160	*DL5DKU	169,406	686	31	111	*IK2ZMP	102,490	394	49	136	PA2QRC	A	148,350	279	68	147	
DL3YM	A	5,327	4388	145	432	*DL7VM	132,715	402	56	153	*DL4HWI	59,122	273	23	80	*IK2ZMP	102,										

*UY7IS	13,442	87	36	58	*YC1BNY	9,308	63	15	37	RV3DBK	46,200	276	28	104	YO2ARV	5,035	51	18	35																																
*UY7ZQ	11,760	67	35	49	*YB1KIZ	15,176	105	20	36	UA3JJC	46,150	186	43	87	BA4TAV	3,626	50	17	20																																
*U5QOR	8,479	141	14	47						UA3JWB	46,146	186	46	114	UB4MCK	2,378	44	24	24																																
*UX2IB	6,533	73	14	33	New Caledonia				*ZP9EH	A	21	15,859	609	51	82	*JK1VOZ	1,539	31	11	16																															
*U5UJH	6,322	73	19	39	A	430,234	968	62	96	VAKWR	44,652	146	37	85	PKY2ZQ	1,100	23	10	10																																
*U2VZC	3,174	28	18	28	New Zealand				*OA1F	A	14	138,846	349	56	90	F4GTD	504	18	6	8																															
*U3U3W	3,036	25	19	25	*ZL3NB	18,841	89	36	47	*OA4DKW	11,096	113	16	22	JR1U5U	403	17	7	6																																
*U5T51	2,320	22	18	22	Niue									WA4CX	231	11	4	7																																	
*US3W8	194,157	606	35	118	ZK2V	A	3,503,962	3347	125	248	Suriname				*JG1BGT	34,470	172	46	80	IW0RFB	162	8	4	5																											
*UY1HY	140,986	366	26	121	Palau				PZ5T	A	15,673,940	7592	173	545	DJ295	33,558	169	38	103	JG2CSN/3	112	6	4	4																											
*U5T1W	107,688	464	29	84	T88TW	A	158,620	421	59	81	Trinidad & Tobago				LA1EMA	217	32	70	4	JG3J0	70	4	3	4																											
*U5RLV	95,004	367	29	97	Philippines				9Y4W	A	1,126,048	1170	95	257	DL7GEM	31,694	209	33	73	N0JK	20	2	2	2																											
*U5T1A	68,300	281	27	73	DUIEV	3.5	6,750	91	12	18	Uruguay				JASMAT	29,993	139	36	53	LZ1MG	21	125,625	520	30	95																										
*U5G6B	59,568	265	25	77	*VJ07/KMB	A873,288	1023	100	211	*CW2A	28	335,262	2391	109	276	W1MT/4	29,754	114	36	78	GM3YEH	113,300	548	21	89																										
*U5X1W	56,736	274	25	71	*DV1SDT	13,950	114	31	31	*CX7ACH		8,643	90	15	F5JQU	28,560	143	40	72	9A2EY	95,992	473	25	79																											
*U5X20	42,108	160	30	86	*DU7HF	2,759	35	16	16		Venezuela				KIT1WC	25,132	130	36	86	I4KRF	92,806	444	25	73																											
*U5T1Y	39,022	212	29	80	South Coast Islands				*CX9AU	A	2,601,830	2391	109	276	UTSURJ	24,192	142	37	91	XE1NW	70,275	446	20	55																											
*U5T1W	30,537	183	27	60	E51MAN	A	2,169,865	2416	120	197	*CW2A	28	335,262	2391	109	276	WORS/7	23,460	110	41	61	E4HJ	69,300	442	20	79																									
*UR7MZ	27,504	79	22	50	SOUTH AMERICA				*YV5NWG	A	5,022	36	27	15	CT1ESQ	21,242	133	32	54	H11NKN	55,915	317	28	53																											
*U5UAF	27,072	118	27	67	L21F	A	5,677,048	4266	141	353	Argentina				UADA	20,880	107	25	55	JH3DMO	48,488	269	26	50																											
*URSWMW	21,984	102	26	70	LU4FPZ		42,085	179	36	59	Brazil				EA1BYA	20,246	138	28	78	NA4U	48,081	189	21	72																											
*U5Y5A	16,065	162	21	42	*LU5FR	A	1,033,118	1303	88	205	LU4PZC		667,968	1153	71	142	IZSPNL	20,200	153	28	72	RN3GE	37,754	273	21	65																									
*UR7QL	14,701	127	19	42	*LW5EE		123,774	335	61	64	LU4PDM		123,774	335	61	64	DK5CF	19,897	200	23	78	OK1AJJ	37,450	286	17	53																									
*URS5W	13,578	109	24	49	*AY8A		69,500	260	31	69	*AY8A		69,500	260	31	69	DK5JWL	19,201	106	33	58	W64FVJ	31,960	175	24	44																									
*USOVA	12,420	92	21	39	*LU1ZV	28	94,480	476	22	58	*LU7ADR		1,344	27	10	14	RU4SS	18,783	150	22	59	K0FLY	22,493	137	23	60																									
*U5T0B	7,580	89	13	28	*L33M	21	65,792	370	21	43	*L33M	21	65,792	370	21	43	LZ5SX	18,173	101	23	59	V43R1	17,500	101	17	34																									
*U5T0S	5,007	55	3	10	*LU1DP		60,660	287	26	64	*LU3MAM		990,234	1588	89	317	LX2SS	17,860	72	41	54	LA8RW	17,360	165	15	44																									
*U3T0U	100,016	383	31	102	*LU4MHQ	14	91,605	376	29	64	*LU4MHQ	14	91,605	376	29	64	US21Z	17,490	86	37	73	JR0URJ	13,980	123	22	35																									
*U5T5P	69,597	237	30	81	Aruba				PA0W	A	12,487,489	6483	162	517	US01Z	17,424	96	41	58	GM4CEVX	13,588	170	10	33																											
*U5U0W	69,240	260	29	81	PA0F		11,353,280	7218	144	400	Bolivia				US01Z	16,044	101	43	41	RA3XEV	12,100	158	11	39																											
*UR5EFL	68,983	289	26	75	PA0F		11,353,280	7218	144	400	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	JA4NKK	8,360	76	16	28																									
*UR5QR	42,000	279	21	63	Chile				W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	JR2SM	7,680	117	18	30																											
*UX7VU	177,786	853	30	96	PK2YU	A	8,153,460	4934	154	413	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																									
*U5X7U	129,956	799	29	87	PV8DX		2,994,670	3009	105	253	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	W4RML	6,900	66	17	53																									
Wales																				W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W4RML	6,900	66	17	53											
*U51PM	79,831	515	29	106	PV8DI		1,185,988	2000	65	149	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																									
*U5T7A	78,705	283	29	106	PV2WAS		92,394	238	48	126	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																									
*UR5KO	75,705	511	23	80	PV2NDX		2,910,495	3522	39	146	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																									
*U5T5K	67,023	403	21	78	PW2Z		1,500,700	3098	39	133	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																									
*UR3QN	26,640	256	17	55	Colombia				W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																											
*US81GL	24,360	388	15	45	PK1CZ		778,972	1967	38	111	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																									
*UX2VA	22,484	129	25	57	PK5XK		11,523	68	24	45	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																									
*US55L	18,104	194	12	50	PV8AA		324	11	6	6	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																									
*U3Z1	12,831	261	21	37	Costa Rica				W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33																											
OCEANIA																				W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33
Australia																				W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33
VK6AA	A	7,024,050	4483	147	403	*PY2MR		22,368	123	43	53	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33								
VK2IM	A	4,992,237	3602	141	346	*PY2MR		22,368	123	43	53	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33								
VK4UC	A	3,961,848	2949	142	331	*PY2MR		22,368	123	43	53	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33								
VK8GM	A	2,755,360	2883	147	343	*PY2MR		22,368	123	43	53	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33								
VK3TDX	A	1,183,028	1356	106	202	*PY2MR		22,368	123	43	53	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33								
VK3IO	A	351,747	634	81	128	*PY2MR		22,368	123	43	53	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33								
VK7ZE	A	315,861	425	91	176	*PY2MR		22,368	123	43	53	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33								
VK4UO	A	116,590	390	43	88	*PY2MR		22,368	123	43	53	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33	W6JTI		586,815	621	124	231	US01Z	15,312	73	38	50	UT8SQ	7,182	103	10	33								
VK2PN	A	16,380	101	29	36	*PY2MR		22,368	123	43	53	W6JTI		586,815	621	124	231																																		

NYXX	195,963	299	64	185	KC3WX	491,400	596	90	222	*K4FX	1,103,844	886	109	367	*K5CA0/6	28	19,923	98	24	63	*WE9V	160,552	241	67	177				
NU3C/1	174,552	387	45	123	W3SQ	473,370	581	65	245	*K1HTU/4	998,980	741	127	375	*K7JA/6	21	209,428	502	35	129	*W9V0	146,265	233	74	171				
N1MM	37,662	120	19	41	NK3Y	448,169	480	100	271	*N4AD	751,255	459	140	310						*W9VW	63,492	185	74	139					
K1SD	36,720	124	41	79	NX3L	416,954	501	73	253	*N4HXI	492,800	529	88	264	K6LL/7	A	2,551,347	1545	145	446	*K9LJ	85,120	208	42	110				
W1B1	30,504	128	37	86	W3UL	374,850	468	86	220	*W3ZL/4	352,098	467	87	262	*K9JF/7		2,107,287	1342	159	422	*K9CW	67,144	162	55	99				
W1EL	26,620	98	35	75	K3VA	311,832	425	72	212	*N4WO	308,580	449	72	206	N7TT		1,942,920	1466	150	354	*N9LA	32,385	99	51	76				
K6ND/1	220,528	447	34	142	NE3H	305,728	433	69	203	*AA4DD	275,600	370	76	189	K7WP		1,871,595	1182	148	449	*K9BH	25,248	99	29	67				
*K51J	A	3,236,800	1995	125	453	W3ZZ	295,320	357	77	244	*AB4SF	240,784	364	86	212	N7XU		1,657,992	1105	147	409	*WABLEY	10,496	65	26	38			
*W1NT		2,461,956	1544	132	456	W3ARL	252,888	355	63	194	*W4AS	159,790	215	84	206	K7UA		1,526,719	1087	137	390	*W9BRFB/9	7,257	51	20	39			
*K6IE		2,041,172	1389	119	419					*N4ARO	147,420	244	72	162	K7ZA		1,307,566	972	136	353	*K9ZM	2,212	28	13	151				
*K1V6		1,576,085	1090	120	477	AF31	236,676	370	66	121	*N4AWT	124,640	209	83	242	*K7ZC		1,168,096	875	147	349	*K9QM	28	5,500					
*N11X		1,083,291	730	121	440	N9WH	91,155	188	66	121	*N4ALP	96,252	226	44	112	W7UJ		978,088	893	104	308	*K9DM	21	293,322	633	35	131		
*W1WB		764,360	743	86	302	K3SV	48,260	136	38	89	*N4TL	93,024	199	58	113	K7EG		913,242	862	124	287	*N9XC	14	93,080	262	32	98		
*K2RS/1		406,830	467	85	270	W3WC	42,140	117	51	89	*N4X4	78,144	153	65	127	W7OM		888,228	845	113	283	K9HX	A	5,221,147	2332	184	613		
*N1API		377,566	384	91	271	N1MD/3	3,266	29	20	26	*K4FTO	76,194	242	51	115	K7RF		871,360	726	122	326	N9HR		2,136,663	1314	147	450		
*NF10		306,606	403	68	206	W3WF	14	352,640	900	36	124	*AD4L	57,528	147	47	106	W7SW		806,215	727	114	307	K9MO		1,896,540	1314	129	409	
*W1FA		256,197	385	62	175	W3NO	15	154,350	443	26	100	*N4JUD	39,087	107	36	93	AB7R		802,473	875	121	250	AE5E/0		1,890,213	1123	155	472	
*AE1T		224,808	358	50	178	K3T1						*K7P/4	33,728	106	51	85	N7RO		801,223	876	109	238	W9RX		1,509,740	991	153	427	
*N1MGO		137,860	245	66	160	*W3KB	A	2,035,587	1215	137	464	*N4KH	31,828	108	35	74	W7FP		753,621	695	125	296	K9RC		1,278,900	827	143	437	
*AD1L		68,460	156	46	117	*WW3S	A	1,955,520	1229	134	448	*NR4C	31,720	139	32	72	W6NF/7		748,440	669	123	267	K6MD		1,162,624	774	134	452	
*N10D		59,064	166	42	96	*W6AAN/1		1,159,855	807	136	415	*WA4RTE	30,595	111	38	107	K17Y		737,745	748	113	246	W6GG		1,151,033	890	134	347	
*WA1ZAM		58,843	151	49	114	*K3NA		553,069	569	73	294	*W3WWW/4	29,904	130	26	58	N17R		626,836	618	107	260	W9BM		811,374	577	127	415	
*KAK2OM/1		44,847	110	42	105	*ND3D		426,277	566	64	217	*W6DVS/4	29,892	109	44	107	NX1P/7		534,882	592	122	251	K10F		766,632	716	94	314	
*N1DS		27,636	116	32	66	*K3TUF		288,042	312	97	269	*W3B9/4	24,698	90	33	73	K7ABV		511,210	575	95	240	N9BK		625,232	643	108	260	
*NT1K		19,266	103	25	53	W3AE3		100,274	219	50	131	*N9KY/4	19,980	90	38	70	K07X		498,328	518	120	253	K9CN		604,233	550	111	306	
*W9M		15,266	103	25	53	*K3RML		15,349	132	61	142	*N9JR	15,349	74	21	55	N9DQ		498,328	518	120	253	W9BN		604,233	550	111	306	
*NG1G	28	69,015	196	27	102	*W4EG		93,438	187	58	121	*N4DL	14,784	76	35	61	K6KR/7		400,092	483	78	230	K4IU/0		453,492	497	104	238	
						*AB3IC		55,942	140	48	118	*N4MIO	13,617	57	34	55	WR7Q		390,020	452	109	289	K9PC		322,605	363	80	229	
N2MM	A	5,389,083	2664	164	593	*N3NZ		40,608	166	22	72	*K2FWA/4	28	548,952	1110	35	143	W57L		338,954	376	116	225	KV1E/0		306,555	394	92	241
N1EU/2		4,691,736	2174	161	595	*K3FH		24,672	101	33	63	(OP:RV2)					K7VIT		252,358	402	89	140	K9VKN		283,820	458	67	163	
W1GD/2		4,352,670	2151	148	557	*K3YDX		14,880	63	34	59	*K4WW		40,992	207	22	62	W7SO		216,504	330	84	164	W9BH		279,954	366	106	196
KV2K		4,159,232	1900	186	666	N3SD		9,982	56	23	39	*K54S	21	167,616	440	29	115	W7VJ		206,448	304	87	185	W9WH		226,005	308	91	194
						*N3OD		5,712	36	25	31	*N4W4	14	57,600	161	30	98	KR2E/7		172,668	257	87	185	K9BY		215,525	325	69	172
						*K3KU		3,116	29	17	29							AD7KG		102,822	212	82	144	W9UJ		198,370	349	65	154
K2SG		3,456,813	2295	150	523	*N3AFT		1,274	19	9	17	W5NA	A	4,993,356	2123	190	676	K7UT		104,340	275	77	108	N9NR		150,880	235	83	147
K20MP		3,008,375	1831	132	455	*W3SFG	28	46,319	181	21	70	K5GN	A	2,758,313	1294	129	676	W7WHY		100,640	231	65	105	K9NR		122,130	194	67	163
N2WKS		2,791,805	1617	148	499	*K300		2,280	40	2	17	NSXZ		2,438,744	1532	138	478	W8NF/7		85,646	194	68	119	N9RT		118,548	204	71	151
N2ED		2,645,000	1660	132	493	N4ZZ	A	4,275,580	2466	142	484	W0VX/5		1,997,739	1196	144	459	K7LV		77,900	182	72	133	K9XT		112,670	226	62	128
A1ZN		2,626,305	1559	132	473	N4ZC		4,256,912	1888	178	658	N5JR		1,765,200	1059	136	464	WX7P		64,856	192	52	69	W9GJ		100,724	252	61	138
W2LE		2,378,110	1325	148	493	N4ZC		4,256,912	1888	178	658	N5JW		1,512,645	1190	110	355	K7J0		42,456	132	49	67	K9CV		98,835	218	63	132
N1RK/2		1,970,000	1221	127	463	N4ZC		4,114,428	1877	153	636	N5VJ		826,461	752	101	324	K7FL		39,198	58	52	84	K9CK		76,625	175	75	124
W2ND		1,970,000	1221	127	463	N4ZC		4,114,428	1877	153	636	N5W		87,055	98	303		N7RVD		33,127	36	117	71	K9YR		58,832	149	58	80
N2R3		1,970,000	1221	127	463	N4ZC		4,114,428	1877	153	636	N5X		87,055	98	303		N7RVD		33,127	36	117	71	K9YR		58,832	149	58	80
N2GC		1,663,470	999	142	468	N4ZC		4,114,428	1877	153	636	N5Y		492,439	548	88	261	N7OS		24,380	100	42	50	W4RK/0		49,077	149	51	82
A82E		1,570,650	1037	122	444	N4ZC		4,114,428	1877	153	636	AESX		468,430	544	96	241	W7LKG		20,414	75	47	71	W9LM		41,869	115	62	87
N2TK		1,518,608	738	173	611	N4ZC		4,114,428	1877	153	636	KE5FXE		311,650	477	72	199	WG7X		11,880	64	44	55	K9UK		26,264	105	46	52
K2MK		1,402,512	1031	107	381	N4ZC		4,114,428	1877	153	636	W8FN/5		264,448	369	67	189	K7AWB		2,880	28	18	27	K9DS		6,072	42	22	39
KP20		1,381,880	733	160	566	N4ZC		4,114,428	1877	153	636	K5MV		249,860	364	76	184	A47V	28	363,530	800	35	134	W9DD		2,771	24	16	21
N1BM/2		1,334,016	874	122	445	N4ZC		4,114,428	1877	153	636	K5WJ		54,625	160	38	87	W7UT		344,762	767	35	131	K9BE	28	293,868	676	33	121
W2YR		1,299,819	693	149	579	N4ZC		4,114,428	1877	153	636	N5U		18,262	192	41	117	W7LNV		57,407	140	74	127	K9CV		81,327	219	38	107
K2EP		1,186,838	813	128	403	N4ZC		4,114,428	1877	153	636	WTSU		15,566	69	38	53	N7DD	21	509,646	1082	38	136	W9K0	28	594,816	1136	38	154
K2CJ		1,088,868	851	102	350	N4ZC		4,114,428	1877	153	636	N5UL		4,032	39	16	26	W7CT		382,157	801	35	138	K9DU	7	569,154	1199	39	135
N1JP/2		884,800	626	118	435	N4ZC		4,114,428	1877	153	636																		

*VE7MID	A	142,760	324	70	102	UA0SE		75,072	189	68	124	*J56RTJ	A	92,950	320	30	80	*EW80F	*	463,500	1106	67	233	G3ZGC	*	604,986	958	82	272
*VA7DXC	Z8	17,850	140	19	31	UA0SG	28	74,356	276	31	85	*JH6WHN	Z8	80,560	293	33	73	*EW80G	*	249,984	532	74	174	G3PHO	*	505,992	981	98	250
		Dominica				UA0AGI	28	31,900	921	31	11	UA0AJZ		260,622	433	109	158	*EW80G	*	180,638	639	21	142	G4RKO	*	464,487	860	97	241
*J79WE	A	2,263,000	2747	91	274	RZ0SR	21	429,350	1194	35	120	UA0AVE	A	220,622	434	109	158	*EW80W	*	166,803	358	71	202	M0TRN	*	462,855	884	72	223
		Mexico				ROKAB		112,336	393	32	86	UA0JVE	A	260,622	434	109	158	*EW2EO	*	28,968	183	37	99	G0AZH	*	355,908	766	67	199
XE1KK	A	177,609	303	76	143	RA0AY	14	337,687	979	31	102	JO7VCV		775	14	11	14	*EU4AA	Z8	56,430	207	30	80	G4PIU	*	195,048	351	73	185
XE2B	Z8	467,988	1742	31	87	RA0UF		172,847	605	33	94	JF7PHE	Z8	125,460	581	28	57	*EW7DK	Z8	127,447	423	37	36	G1212	*	154,394	315	62	177
		Sint Maarten				UB0A	7	868,633	2002	37	136	JA7OWD		70,286	240	37	76	*EU4AA	Z8	56,430	207	30	80	G4PNK	*	116,424	268	61	128
PJ7I	A	169,344	698	48	78	UA0BS		478,076	1034	34	130	JG7AMD	14	16,224	103	26	42	*EW70A	A	7,537,624	4334	141	523	G7ORF	*	29,464	97	44	83
		U.S. Virgin Islands				UA0BT		121,576	306	66	116	JH7MEX	3.5	741	15	7	12	OE5M	A	5,737,624	4334	141	523	G7GRM	*	247,072	1120	37	141
KV4FZ	1.8	141,038	708	22	75	*UA0BLK		55,297	232	41	*J7JHX	A	11,625	66	33	42	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141	
*KP2MM	A	2,659,660	3543	95	260	UA0ADQ		40,905	153	33	68	JH8CXW	A	365,205	516	101	190	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
*KP2B	*	421,789	980	59	152	*RWOAR		2,211	25	11	22	JH8CXW	A	365,205	516	101	190	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
*KP2DX	1.8	738	23	5	13	*RWOIM		1,120	16	13	25	JH8CXW	A	365,205	516	101	190	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
		AFRICA				*RWOAD		980	19	12	16	JH8CXW	A	365,205	516	101	190	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
E48BMG	A	1,083,852	1694	64	174	*UA0ADL	28	161,590	476	31	99	JF9JTS	A	479,446	855	80	129	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
E48BO	A	2,272,536	1583	109	395	*UA0ADM		161,590	476	31	99	JR9GMS	Z8	9,888	75	19	29	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
*E48FAM	Z8	44,064	278	21	47	*UA0ADN		161,590	476	31	99	*JASXAT	Z8	1,705	28	16	15	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
		Djibouti				B47IO	A	2,882,034	2493	136	377	JA0FVU	A	1,284,431	1313	129	250	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
*J28AA	14	375,906	927	33	108	B47J	A	2,349,242	2364	126	308	JIOVWL		350,702	643	83	126	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
		Madeira Islands				B47K	A	1,149,000	1463	119	264	JOJMPI	Z8	2,511	41	14	17	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
CT3KN	A	9,189,170	4679	153	545	B47N		3,520	41	18	22	JH0NOS	14	70,416	205	38	106	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
CT3BD		28,558	103	36	73	B47N	28	230,300	1052	27	71	*JAOBDD		11,247	63	32	37	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
*CT3KU	Z8	34,870	162	24	86	B07LMD		93,670	540	24	61	JA0GSG	21	665	18	9	10	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
*CT3KY		3,850	32	21	29	B47VE	21	185,822	807	30	83	UN9L	A	5,262,717	2677	158	595	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
		Senegal				B47CK	1.8	385	38	5	6	UP4L	A	4,404,666	2401	154	560	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
6V7V	A	4,322,271	3670	124	365	*B47D	A	590,400	914	82	206	UN1F	*	965,640	1000	100	290	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
		South Africa				B47E		190,474	379	88	174	UN8GV	*	551,372	805	77	230	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
Z56A	Z8	25,410	140	22	55	B47F		115,776	292	74	118	UN9J		22,656	95	48	70	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
		Sudan				B47G	28	230,300	1052	27	71	UN9L	Z8	209,500	660	28	97	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
ST2AR	A	9,158,594	5379	146	440	B47H	21	175,332	818	30	84	UN9L	Z8	580,071	1352	35	128	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
		ASIA				B47I		93,670	540	24	61	UN9L	Z8	308,380	1089	32	111	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
		Afghanistan				B47J		76,426	317	29	77	UN9L	Z8	1,373,192	1286	117	322	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
*T6RH	A	128,132	294	60	146	B47K	1.8	385	38	5	6	UN9L	Z8	126,207	463	25	86	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
		Asiatic Russia				B47L		190,474	379	88	174	UN9L	Z8	16,350	50	17	33	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
RG9A	A	7,426,986	3484	172	626	B47M		115,776	292	74	118	UN9L	Z8	10,860	80	42	63	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
RT9T	A	5,539,376	2939	170	595	B47N		65,184	195	62	106	UN9L	Z8	126,207	463	25	86	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
UA9MA		3,982,776	2439	155	383	B47O		35,860	168	64	106	UN9L	Z8	10,860	80	42	63	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
RW9QA		2,383,742	1620	127	436	B47P		29,916	185	66	71	UN9L	Z8	10,860	80	42	63	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
R8MC		2,328,175	1596	142	433	B47Q		65,184	195	62	106	UN9L	Z8	10,860	80	42	63	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
RK9CR		1,984,894	1297	137	476	B47R		35,860	168	64	106	UN9L	Z8	10,860	80	42	63	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
UA9BS		1,656,507	1390	113	358	B47S		65,184	195	62	106	UN9L	Z8	10,860	80	42	63	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
R9SA		1,652,120	815	165	357	B47T		35,860	168	64	106	UN9L	Z8	10,860	80	42	63	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
UA9TF		1,261,568	793	137	478	B47U		65,184	195	62	106	UN9L	Z8	10,860	80	42	63	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
RU9HM		1,202,380	1176	91	304	B47V		35,860	168	64	106	UN9L	Z8	10,860	80	42	63	OE5M	A	5,737,624	4334	141	523	G4P3P	*	247,510	1120	37	141
R6K8		699,205	691	102	301	B47W		65,184	195	62	106	UN9L	Z8																

D4C	Cape Verde 26,644,810	9242	203	807
ED9M	Ceuta and Melilla 19,068,540	7955	179	670
RF9C	Asia Asiatic Russia 16,500,105	6632	194	739
RK9SWF	2,604,267	1924	123	424
RC9JWR	2,008,125	1669	111	314
RF9T	907,088	992	87	269
RK9LWA	20,184	124	14	44
RW9OWD	2,000	41	4	16
RW0A	10,127,988	5128	174	630
RW0CWA	6,813,072	4558	181	467
RZ0SZZ	3,843,122	2805	142	436
RZ0CWN	652,732	1159	114	217
RK0LWV	84,423	319	44	63
TC2A	Asiatic Turkey 2,768,778	2938	94	292
4K7Z	Azerbaijan 2,428,875	2434	83	298
BY5CD	China 4,956,651	3437	158	451
B4R	4,062,018	3008	160	446
B3C	2,261,376	2373	133	335
BY5AC	1,601,856	1924	127	305
BY10K	1,177,500	1726	111	243
B1C	974,827	1505	110	219
BY1CW	935,984	1772	80	194
BY9DX	304,260	750	65	155
P33W	Cyprus 23,821,760	8770	201	785
VU2NKS	India 956,475	1074	105	246
VU2RMS	67,750	302	34	91
JA1BPA	Japan 5,430,036	3210	163	479
JO1YWK	56,760	183	53	79
JA2ZJW	84,911	292	49	60
JA6ZPR	153,300	543	37	68
8Q7DV	Maldives 12,912,071	5929	189	688
JT5DX	Mongolia 9,925,293	5528	178	575
JT1T	726,340	1466	60	170
D9G	South Korea 205,128	950	62	86
9M2JKL	West Malaysia 30,132	173	42	66
ON6BR	EUROPE Belgium 1,542,198	1877	123	388
OR7B	451,554	1062	66	257
E7DX	Bosnia-Herzegovina 13,792,680	6889	204	768
E73ECJ	412,566	1027	65	217
E74CMN	27,200	220	25	75
E71AVW	26,862	191	30	81
9A1P	Croatia 12,962,024	6066	205	793
9A7A	12,963,018	5991	198	764
9A8M	6,224,850	4500	161	564
9A3W	825,884	1260	98	284
OK5W	Czech Republic 12,341,472	5616	208	815
OL1C	5,998,104	4142	161	593
OL7C	3,154,030	2994	124	417
OL2U	1,075,457	1597	104	335
OL1B	918,614	1129	110	299
OK2KJ	806,496	1235	102	270
OK5SWL	1,880	25	15	25
G4A	England 2,984,247	2396	141	462
ES9C	Estonia 15,391,805	7751	216	829
RL3A	European Russia 12,633,348	6906	206	800
RT4F	11,823,882	6985	184	719
RT6A	9,221,995	5382	196	739
RM5A	8,065,488	5169	189	716
RM3Q	4,927,313	3877	155	602
RF4C	4,324,500	3577	167	583
RM3M	3,963,652	3421	162	586
RZ4FVW	3,054,896	2236	171	602
RC3W	1,727,313	1225	135	446
RK3R	1,305,284	1681	119	405
RF4M	817,938	1336	94	280
RK4HYT	482,834	980	83	286
UD3D	391,090	920	77	225
RK4VWQ	126,888	241	79	232
RK1QWX	68,112	319	42	134
RZ1AWZ	30,719	203	39	100
RK3CQ	12,880	106	23	57
OH8A	Finland 4,305,300	3839	158	520
OH2BAH	2,348,314	2492	126	361
TM6M	France 16,378,200	7210	202	809
FK6NB	9,068,994	4931	183	660
TM4Q	8,508,566	4936	192	710
F6ECL	1,080,145	1635	118	361
F8UFT	790,575	1441	92	289
FK6BM	572,910	1161	79	259
FSKIN	504,112	1349	60	136
FSKDD	100,308	389	47	109
DM8D	Germany 8,715,564	4960	184	674
DR1D	8,706,722	4717	184	702

DP9A	6,669,117	4403	166	653
D1A	2,631,936	2357	139	457
DF7ZS	2,188,857	2106	139	488
DK0ED	1,861,896	1859	131	421
DK0XB	1,846,944	2225	117	367
DO1V	916,780	1227	106	354
DB0RC	328,539	807	81	210
DF0CK	97,305	384	49	146
Hungary	180,616	581	58	153
HA6KZS	116,560	353	55	133
HA3KHB				
GD0AMD	104,256	397	45	147
IR4M	13,750,174	6466	196	762
IO50	7,994,430	4741	164	619
IB3X	3,209,209	2887	140	467
IQ2MG	307,360	728	74	152
Latvia	1,966,968	1837	135	477
YL1S				
Lithuania	5,994,300	3956	173	622
LY5R				
LX7I	11,885,817	6456	194	717
Netherlands	926,856	1441	95	283
PI4KGL	891,346	1403	80	269
PI2AA	15,939	125	25	44
PI4ZOD				
Norway	9,193,844	5312	189	703
LN3Z	1,263,906	1785	109	332
LN2AB				
SN3R	9,964,482	5357	191	722
SO9Q	6,891,834	4315	166	613
SP2KPD	1,325,088	1963	100	328
SP3POZ	1,161,090	1433	115	370
Romania	6,529,887	4033	169	650
YR1C	312,250	776	67	183
YR2X				
Scotland	2,063,772	1973	127	455
GM0EGI				
Serbia	10,091,200	5680	186	715
YU2A	3,892,410	3013	156	553
YU1FG	24,024	273	19	69
Sicily	11,571,390	6291	183	735
IR9Y				
Slovak Republic	15,559,464	6952	214	818
OM8A	2,491,395	2448	131	424
OM3RRC	1,436,408	1997	92	317
OM3KWZ				
S59T	Slovenia 870	29	8	22
EA2EA	14,242,416	6503	200	784
EA5RS	12,179,718	6414	202	752
EA5URS	6,320,355	4557	159	558
EA1FAE	1,104	17	8	15
Sweden	10,455,297	5160	208	785
SJ2W	367,227	893	65	196
SI9AM	257,439	503	72	215
SK00Q				
HB9AUS	Switzerland 428,008	450	120	397
HB9EP	6,006	42	25	41
Ukraine	14,184,116	7168	215	837
U22M	4,421,185	3049	170	639
UT7L	2,129,164	2784	119	368
UT0AZA	1,093,588	1451	115	409
UW0L	434,505	778	116	299
UR4NWG	23,836	168	33	85
UR6GWZ				
OCEANIA				
Australia	8,685,372	4977	171	447
VK4KW				
Guam	8,707,220	4959	165	463
AH2R				
Hawaii	13,322,608	6191	195	563
KH7X				
Indonesia	3,480,664	3047	126	281
YE1ZAW	240,478	494	57	121
YE1C				
New Zealand	2,261,664	2773	96	192
ZL2J				
Philippines	208,502	725	50	56
DUIHR				
Tuvalu	1,508,770	1869	112	198
T2V				
SOUTH AMERICA				
Argentina	7,675,824	4525	152	472
LS1D	499,284	874	65	142
L73D	157,412	495	45	73
LQ4D	118,422	450	40	62
LJ1UM				
Aruba	22,396,296	8722	192	705
P40L				
Brazil	1,036,808	1157	97	231
PX2V				
Paraguay	853,024	1017	98	206
ZP5R				

CWSW	Uruguay 10,959,732	5098	179	584
K1LZ	MULTI-OPERATOR TWO TRANSMITTER NORTH AMERICA United States 21,584,710	7811	198	796
KB1H	12,061,422	5489	169	638
KOTV/1	10,744,958	4915	168	610
K2AX	8,922,960	4220	170	595
W2YC	7,275,813	3459	170	627
W2CG	4,406,131	2389	145	528
W2ZN	3,785,050	2231	132	478
N4WW	21,015,666	7886	198	756
NY4A	13,615,725	5650	193	712
K5KG/4	12,377,700	5477	168	641
K4VV	6,388,992	3094	168	600
N5KWN	4,351,130	2679	147	463
N7AT	604,730	685	104	267
N7VW	6,731,551	3501	178	561
N7BV	3,207,196	2020	163	465
N78V	2,280,096	1746	152	370
N8AV	8,496,125	3796	179	656
W8BI	167,085	288	67	158
W9SN	7,413,120	3967	162	553
N9LJ/9	5,791,896	2793	177	615
K8IR	6,832,614	3385	179	567
KL7RA	Alaska 11,784,122	7940	177	481
NL7Z	1,087,632	1437	122	214
VP2MWG	Montserrat 17,615,322	10095	168	570
J6M	St. Lucia 9,700,900	6633	149	496
EF8R	AFRICA Canary Islands 15,483,500	8110	149	567
EL2A	Liberia 18,545,016	9732	155	506
CR3L	Madeira Islands 36,453,816	13129	194	764
RM9X	ASIA Asiatic Russia 5,385,510	3598	129	456
RU0FM	7,540,520	4607	190	490
RK0W	1,510,496	1577	110	306
TK3A	Asiatic Turkey 25,050,220	10181	192	731
B1Z	China 6,101,568	4720	153	423
J81JNG	Japan 1,507,600	1617	131	271
JA1ZGP	1,168,410	1607	106	184
6M0HZ	South Korea 349,730	759	81	124
TK4W	EUROPE Corica 17,700,504	11387	192	696
9A2L	Croatia 1,471,408	2251	85	