

Results of the 2004 CQ WW DX SSB Contest

BY BOB COX,* K3EST

Expanded CQ WW Contest Results on the Web

We've moved a few elements of our contest reporting onto the CQ website again this year, including **Station Operators** of Multi-Op stations, **Team Contesting**, and **Zone Leaders/Single Op**. In addition, we have expanded **QRN** on the web.

To view these additional and expanded elements of the 2004 CQ WW SSB results, go to <<http://www.cq-amateur-radio.com/cqwwhome.html>>, then click on "Expanded Results, 2004 CQ WW SSB" and select the category you want to see. You may also get there by going to our home page at <<http://www.cq-amateur-radio.com>>, clicking on "Contest Rules & Info," then clicking on "CQ World Wide DX Contest" and selecting "Expanded Results, 2004 CQ WW SSB."

The 2004 CQ WW DX SSB test was a real surprise. The sunspots were really going down and depressed conditions were expected. What happened gives truth to the saying "The CQ WW makes its own propagation." Ten meters being open worldwide was a gift from the sun. The 2004 contest marks the highest number of submitted logs in radio history. Over 4300 SSB logs in the world's largest international radio event had been received when everything was tabulated.

Let the entrants' own words describe the weekend: "As usual 10m opened to make it a great contest." . . . 9H1DE. "Good contest, very nice conditions on all bands especially on 20 meters all the night in both days." . . . CE4PBB. "Big fun because of big activity all

over world!" . . . DL2RZG. "Once again, another glorious weekend." . . . EA3ALV. "Good condx meant fun with only 100W and a short bit of wire." . . . EI2JC. "A fantastic adventure!" . . . FP/VE7SV. "Wow! Totally unexpected 10/15m condx." . . . GW3JXN. "Amazing. Many new countries." . . . HK3JFF. "Wow, what a funny contest! Great conditions on 10m, way beyond expectations, led us to our best ever score." . . . J49Z. "Super conditions for this time in the cycle." . . . VE6FI. "Who ever expected 10m to be as hot as it was?" (VK4CZ). "Great contest. We turn ourselves into zombies. We end up with a hoarse voice. We deny ourselves sleep. We are hungry. We are thirsty. It still remains a great contest." . . . VK7VH. "The 10 meter god smiled upon us." . . . ZK1AQZ.

Sure the CQ WW is a fantastic competition, but it is much more than that. It is a cel-

*e-mail: <k3est@cqww.com>

ebration of ham radio skills and effort. As VP2E aptly said, "We contest for the fun of it. It is certainly nice to win, but it's great to operate, win or lose. If you operate, you can't lose. You only lose when you don't. It's a worldwide party . . . and you are definitely invited!"

All Band, High Power

After operating from locations all over the world, Jim, W7EJ, seems to have found a winning location at CN2R. Located near Casablanca, CN2R took the number one position in the hotly contested Single Op All Band category (<<http://radioamateurs.he-arc.ch/cn2dx/articles/contest/>>). This is the first time two SO stations broke the 20-million point barrier. Second place went to AI, 4L5A, operating D4B from his hilltop location in the Cape Verde Islands (<http://www.qsl.net/d44tt/>). Both stations pounded through on all bands. Third place went to Tom, W2SC, who again put 8P1A near the top. A special mention goes to Robert, S53R, operating A61AJ, the number one score in Asia. He set a new all-time Asia record! The second place Asia score was submitted by Andy, UA3DPX, at EX9A.

The number one score in Europe and number six world was Robert, GI0KOW, using the call GI1W. Robert averaged 132+ Q's per hour over the 48 hours! It was during the contest that the UK received 40-meter privileges above 7100 kHz. Robert and others took full advantage of running simplex. To find second place just QSY slightly east to Steve, GW4BLE's QTH. Once again Steve did an outstanding job. Third place went to Tine, S50A, located just outside Ljubljana, Slovenia.

For a U.S. station, making the top ten in the U.S. is hard enough, but making the world top ten is a real accomplishment. The number one scorer in the U.S. was Ken, K4ZW. As you may have noticed, he has been working his way up in the standings. Now he stands as having the best U.S. score, and he is *not* from New England, which makes his score even more remarkable. Perennial top ten finisher, Bob, KQ2M/1, finished second. Third place was taken by Gator, N5RZ, operating at K5ZD/1. Farther west Mike, W9RE, put the Midwest in the box, while Steve, N2IC/5, operating from New Mexico and Mitch, K7RL, from Washington represented the U.S. far west. It's not an easy task to make the top ten from Zone 3.

The continental winners were: North America 8P1A (W2SC), Africa CN2R



The shack of K3LR, new U.S. record holder, Multi-Op, Two-Transmitters.



Chris, KA1LMR, number two U.S. QRP.

(W7EJ), Asia A61AJ (S53R), Japan JS3CTQ, Europe GI1W (GI0KOW), Oceania, VK9XD (VK2CZ), South America P49Y (AE6Y).

All Band, Low Power

The category that has the greatest number of participants by far is Low Power. To win this category is not easy. Reprising his win from last year was Thomas, SU9NC. Nothing makes contestants happier than coming across a double multiplier. SU9NC was able to supply that 5601 times! Second place went to European traveler Danny, T93M, who visited Bonaire to activate PJ4J (<http://www.t93m.com/>). Mike, K9NW, went to FG to take third place, not an easy job from a two-point area.

The number one 100 watts or less entrant in Europe was CT7B operated by Jose, CT1CJJ. The number two scorer in Europe and on the Iberian peninsula was Manuel, EA7RM. Third place went to LY9A operated by LY3BA, Gediminas. Here in the USA, Ed, N1UR, was the clear winner in the barefoot category. Taking second was Ann, WA1S (<http://home.tiac.net/~wa1s/>), who is always near or at the top. Third place went to the West Virginia QTH of Jeff, N8II.

The continental winners were: North America FG/K9NW, Africa SU9NC, Asia YI9OM, Japan JS1OYN, Europe CT7B (CT1CJJ), Oceania T30T (K7ZZ), South America PJ4J (T93M).

QRP

If you want to practice your contesting skills, the QRP category is the way to do it. Finding new stations and knowing when to call a station or to give up and move on is what QRP is all about. It is surprising what you can work with 5 watts. If you want to improve your contesting skills, the QRP category could be the refresher course you need.

Again in 2004 the top three scores came from different continents. The world number one QRP signal was put out by John, KK9A, operating at P40A. John has been very active from Aruba for several years. Following in second place was Gerard, F5BEG, who has been a high-place finisher in QRP many times. Third place in the world and number one in the U.S. was Tom, N4KG, operating from Alabama. In Europe first place went to

Remi, LY2MW, operating LY4XX (<http://www.qsl.net/ly2mw/>). Second place went to Juergen, DF1DX (<http://www.df1dx.de/>). Third place in Europe went to Bengt, SM5CCT, operating club station SK3W (<http://sk3w.shacknet.nu/gallery/>). Chris, KA1LMR, finished number two in the U. S. (<http://hometown.aol.com/ka1lmrusa/myhomepage.html>), while John, KO1H, was third. Finishing just outside the top ten box were JR4DAH and UA9SG.

The continental winners were: North America N4KG, Africa EA8TX, Asia JR4DAH, Japan JR4DAH, Europe F5BEG, Oceania YB2OK, South America P40A(KK9A).



Pedro, HK1XX, number two in the world, Single Op, 14 MHz.

Assisted

When a single op receives QSO/multiplier spotting assistance from a source in any form, that operator is in the Assisted category. There are lots of reasons to try this category. You have to make the best use of spots without it affecting your QSO total. It's not easy to do.

The 2004 world top score came from John, W2GD, operating from P40W. John has been putting P4 on the map for many years. Everyone appreciates his dedication to contesting. A hard-fought battle ensued for second place, which was taken by Hrane, YT1AD, operating 3V8BB. He was followed by Laurent, F5MUX, at FM5BH (<http://www.fm5bh.com/>). In the USA first place went to Rick, K3OO. Ray, W2RE, took second place (<http://www.hamsonline.net/w2re>). Charles, K3WW, took third (<http://www.users.fast.net/~k3ww>). In Europe the number one score was submitted by Andre, F6GYT, at TM7F. Farther east in second place was Rolandas, LY2FY, at LY4A (<http://ly4a.kli.lt>). Braving the northern lights was Ari, OH5DX, at OH0Z, who took third (<http://www.qsl.net/oh0z>).

The continental winners were: North America FM5BH, Africa 3V8BB, Asia RG9A (UA9AM), Japan JE1OHL, Europe TM7F (F6GYT), Oceania AH6RF, South America P40W (W2GD).

Multi-Single

Each year contestants band together and travel to compete in a multi category, of which Multi-Single is the most popular. A real battle occurred in the Multi-Single category in the 2004 contest. Three FB stations with top operators went head to head. The international team from Pantelleria Island, IH9P, took the top position (<http://www.ih9p.com>). Another African team located in the Madeira Islands, CQ9K, took second place (<http://www.madeirateam.com>). Not far behind was FY5KE, who took world third place (<http://www.fy5ke.org>).

MS in Europe was a real fight. The top four teams from central Europe were separated by less than 560K. After it was finished, OM8A took top honors (<http://www.qsl.net/om8a>). Second place went to OE2S (<http://www.qsl.net/oe2s>). Another Slovakian team, OM7M, took third (<http://www.qsl.net/om7m>).

No less of a battle took place in the U.S. KT1V edged out K1KI (http://www.yccc.org/Articles/K1KI_Profile.html) for the top slot. Third place went to K1IR (<http://www.designet.com/k1ir>).

The continental winners were: North America VY2ZM, Africa IH9P, Asia 5B/AJ2O, Japan JA7YAA, Europe OM8A, Oceania AH2R, South America FY7KE.

Multi-Two

The M2 category continues to grow in popularity. You have to have a good plan and good operators if you want to try for the top spot. You cannot do better than to set a new world record the first time you enter a new category, and VP2E did it in the 2004 contest. These operators didn't just break the old record, they really raised the bar. Look at the score and you will be amazed. VP2E made a score in the range usually reserved for Multi-Multi stations—40M points. The team did it from a two-point area! The Caribbean Contesting Consortium, PJ2T, always a force to watch out for, took second place (<http://www.pj2t.org>) and CT9L took third. Not far from Bologna, IR4X (ne IQ4A) entered the M2 group and took top European honors (<http://www.ari-bo.it/iq4a.htm>). Second place went to 9A7A (<http://www.qsl.net/9a7a>) and third to UU7J (<http://www.uu7j.com>).

In the USA, new ground was being broken in western PA. The team at K3LR huddled together before the contest and decided to try for something completely different: M2: A good decision. K3LR set a new USA M2 record. Their score was just below the USA MM's! What a job (<http://www.K3LR.com>). On the other side of PA, Sig's team, N3RS took second place (<http://www.n3rs.com/main.html>) while Paul's team, K4JA in northeastern VA took 3rd. A special mention must be made of the fine effort of NK7U to finish USA high west of zone 5. The continental winners were: North America VP2E, Africa CT9L, Asia RT9W, Japan JA1KQX, Europe IR4X, Oceania VK4CZ, South America PJ2T.

Multi-Multi

Take a lot of work, a lot of planning, and people coming from all corners of the world and

you have a multi-multi team. In 2004 the number one scoring team was assembled at the QTH of Manu, EA8ZS. Taking full advantage of their proximity to Europe, EA8ZS scored over 44M points (<http://www.qsl.net/ct1boh/ea8zs.htm>). Second place went to perennial top finisher HC8L from the Galapagos. Moving to northeast North America, VE7SV and crew had a fantastic time putting FP/VE7SV in lots of logs for third-place world (http://www.bcdxc.org/st_pierre_miquelon.htm).

Taking the top spot in Europe was 9A1A. Operating from a mountaintop QTH, 9A1A always had a good signal. Second-place Europe went to the club with quads—DF0HQ (<http://www.df0hq.de>). DF0CG, a well-known German club station, took the third-place position. In the U.S., W3LPL located in central Maryland was the high scorer (<http://homepage.mac.com/rrucker/PhotoAlbum46.html>), just edging out KC1XX. Operating from just inside the aurora zone, KC1XX's super station took second place (<http://www.kc1xx.com>) while K9NS (<http://www.k9ns.com>) took third.

The continental winners were: North America FP/VE7SV, Africa EA8ZS, Asia UP5G, Japan JA3YBK, Europe 9A1A, Oceania KH7X, South America HC8L.

Team Contesting

What do five contestants from anywhere in the world have in common? Besides the fun of contesting, they can form a team. Make a team, register your team before the contest, and you are all set to enter the Team Contesting category. A teams' members can be all over the world. This year's SSB winner was a repeat from last year—Contest Club Finland's Team Sauna. The sauna really heated up! They led the pack of 18 entries.

1. Contest Club Finland Team Sauna (15,906,643 pts.): OH0Z (OH5DX), OH2RA, OH6NIO, OH8NC, ES5TV.

2. Florida Contest Group On The Move (12,062,347 pts.): PJ4J (T93M), OM6NM, KG4WW (KX4WW), VP5DX (NU4Y), N8PR/4.

3. Worldwide Young Contesters Champs (9,458,023 pts.): K3OO, G0MTN, 9A7P.

4. VK Contest Club Australis (5,688,634 pts.): VK9XD (VK2CZ), VK7GN, VK4UC, VK3TZ, VK4TI.

5. VK Contest Club Koalas (3,781,079 pts.): VK6DXI, 9M2/G4ZFE, VK6LW, VK4DX.

6. Florida Contest Group Part-Timers (3,359,656 pts.): AA4RX, N4EK, K4JAF, NA4CW, WC4E.

7. Florida Contest Group (3,204,994 pts.): K1UM/4, W4ARM, N4WW.

8. Worldwide Young Contesters Part Time Job (3,178,054 pts.): OZ1AA, 9A1P, 4L6AM.

9. Florida Contest Group Feeder Bands (3,142,266 pts.): K4XS, K4VUD, N4BP.

10. Florida Contest Group With New Antennas (2,205,095 pts.): WX4G, KK4TA, K4RFK, KB4ET.

11. Contest Club Finland Team Finlandia (2,006,118 pts.): OH4A (OH6XX), SM0W (SM0WKA), ZA/OH2PM, ZA/OH2BH.

12. Contest Club Finland Sibelius playing



Thomas, YC3BDJ, number 6 world, Single Op, Low Power, 21 MHz.



The QTH of Philippe, LX7I (LX2AJ), number two world, 3.7 MHz.

15 meters (1,761,987 pts.): OH0V (OH6LI), OH2BH (OH1WZ).

13. Florida Contest Group Generating Heat (1,359,706 pts.): K4PV, N4GI, W7QF, WB2QLP/4.

14. Worldwide Young Contesters Hell Riders (895,169 pts.): DM2SR, ON7BS, DJ7EC, M3PHP, LZ1ABC.

15. Contest Club Finland Team Terva (445,115 pt.): OH1BOI, OH2LU, OH6XX (OH6GLE).

16. Aztecas New Kids (304,557 pts.): XE1NK, 4A1UN (XE1UN).

17. VK Contest Club Cockatoos (274,860 pts.): VK3DBQ, VK4AN, VK3YB.

18. Contest Club Finland Team Sisu (210,348 pts.): OH4RH, OH4MFA.

Records

On the CQWW.com web page are the all-time records for each continent and country. Setting a new record is difficult and challenging. Take a look at your country's records and choose a record you can try to beat. Congratulations to the following stations which set new world and continental records.

World: L1.8, YM0T (TA2RC); Q7, KP4KE; Q1.8, LY5A (LY2PAJ); A14, 4L6AM; A3.7, YU7AV; M2 VP2E.

Africa: 14m D44TD (IV3TAN); QA, EA8TX; A14, EA8BVX; A21 EA8ANE.

Asia: A, A61AJ (S53R); L1.8, YM0T (TA2RC); A14, 4L6AM; M2, RT9W.

Europe: 3.7, SP3GEM; Q21, YT7TY; Q7, S53D (S59DR); Q1.8, LY5A (LY2PAJ); A21,

9A5Y (9A3LG); A14, DL2ARD; A3.7, YU7AV; M2, IR4X.

Japan: A14, JA1YPA (JH1FDP).

USA: L21, N2BA; L7, K3BU/2; L3.7, N4IJ; M2, K3LR.

North America: A, 8P1A (W2SC), LA, FG/K9NW; Q7, KP4KE; Q1.8, VE3MGY; M2, VP2E.

Oceania: L21, YC3BDJ; A28, AH6RF; A21, ZL2DX; A14, ZL4PW.

South America: LA, PJ4J (T93M); L14, P43E; A7, ZW5B (PY5KD); A3.7, PY2WC.

Special Mention

The CQ WW sure brings out the desire to travel in many hams. Thanks to the many DXpeditions and the efforts of hundreds of contestants who made the contest experience more interesting for all of us. Here are some calls you probably worked: V29NR, C6AUR, 8P1A, FG/K9NW, H6C, V44/KC2FVN, NC2NV/44, V49A, FS/AH8DX, PJ7/K3TC, VQ5C, VP5DX, VP5KE, D44B, D44TD, EA9/OL8R, C56ACA, 3B8MM, CN2R, V55V, 9L1ADA, ST2T, 9J2KC, YA7X, 5B/KI0BP, YI9MD, YI9GT, EX9A, BN0F, EY8/F5NHJ, A61AJ, UK/JI2MED, 3W3A, OH0V, OH0R, ZA/OH2BH, ZA/OH2PM, EA6/LY1DF, YM0T, J43J, EI2VNO, ER0ND, ER0FEL, CT/DL5IC, 9M8YY, 9M6US, V6A, KH6/W0CN, YB0AJR, PA0CYW/DU2, T30T, VK9XD, P49Y, ZV1R, PJ4J, 9Y4NZ, P40A, TE1W, TI5X, TI5/W8QZA, V44/EW1AR, TI5N, TI1W, TI5A, W1AJT/VE3, FM5BH, 5H3HK, 3V8BB, OH0Z, P40W, C6DX, C6AVV, VP9/W4OV, J75J, VP5X, IH9P, CQ9K, C91Z, 6W1RY, 5B/AJ2O, A52CDX, 4U1ITU, OH0I, J49Z, SY9Y, AH2R, FY5KE, 9Y4ZC, VP2E, T18M, WP2Z, CT9L, CU2Z, PJ2T, V26B, V47KP, FP/VE7SV, VP5T, EA8ZS, XX9C, MD4K, HB0/HB9AON, IS0/II0A, HC8L, SU9NC.

One fun aspect of the contest is the competition that takes place within a country or locally. Two friends or more go at it to see who will come out on top. By looking carefully at the results you can see many such competitions.

Comments

To anyone who tunes the bands during the CQWW it is very clear that the radio spectrum is being fully used. Use of the bands is good. With the increasing cross-continental simplex QSOs on 40 meters, even more of the spectrum will be put to use. Forty phone has always been a communications problem, whether you are in Region 1, 2, or 3. You either have too little space or must fight the broadcast carriers to make crossband QSOs.

In 2004 the percentage of electronically received logs rose to 95%! The CQWW Contest Committee wants to thank all the entrants who took the time to submit their log via the CQWW robot. Your effort to submit an electronic log allows for a fairer adjudication.

(Continued on page 99)

TROPHY WINNERS AND DONORS

SINGLE OPERATOR	World – 1.8 MHz	Asia
World All Band	Jens Rohme, OZ1DD	5B/AJ2O (Oprs: RW3QC, RW4WR, RN3AZ, UA9CDV, RA3AUU)
CN2R (Opr. James Sullivan, W7EJ)	Donor: Robert Wruble, W7GG	Donor: Edward L. Campbell, NT4TT AA6BB and KA6V Memorial
Donor: Dave Rosen, K2GM WA2RAU and W2SKE Memorial		
World Low Power	USA – 28 MHz	Japan
Thomas Poland, SU9NC	Bill Tippett, W4ZV	JA7YAA (Oprs: JE7HLZ, JH0NZN, JG7PSJ, JO7FTJ, JI5RPT, JA6SCY, JJ0CB8, JO7JID, JO7DJT)
Donor: Slovenian Contest Club	Donor: Donald Thomas, N6DT	Donor: Vienna Int'l ARC – 4U1VIC
World QRP	USA – 21 MHz	Europe
P40A (Opr. John Bayne, KK9A)	Bradley Petersen, NG2X	OM8A (Oprs: OM2KW, OM2VL, OM3BH, OM3GI, OM3LA, OM3NA, OM3RM, OM7JG)
Donor: Jeff Steinman, N5TJ	Donor: Worldradio	Donor: Bob Cox, K3EST
World Assisted	USA – 14 MHz	Oceania
P40W (Opr. John Crovelli, W2GD)	Daniel Handa, W7WA	AH2R (Oprs: JI3ERV/NH2C, JR7OMD/WI3O, JE8KKX/AH2K, JG3RPLN/1BJ)
Donor: CQ magazine	Donor: Southern California DX Club	Donor: Junichi Tanaka, JH4RHF
U.S.A	USA – 7 MHz	South America
Ken Claerbout, K4ZW	Bill Kollenbaum, K4XS	FY5KE (Oprs: F1HAR, F5HRY, F5MZN, F6EPY, F6FVY, F6FGZ, FY1FL)*
Donor: Potomac Valley R.C. – KC8C Memorial	Donor: Stanley Cohen, W8QDQ	Donor: The Cuba Libra Contest Club
U.S.A. Low Power	USA – 3.7 MHz	MULTI-OPERATOR, TWO TRANSMITTERS
Edward Sawyer, N1UR	Joseph Gagliardi, AA1BU	World
Donor: North Coast Contesters	Donor: Alex Jozsa, KG1E	VP2E (Oprs: KC5EA, N5AU, N5TJ, K5MR, K1DG, N2NT, VE3EJ)
U.S.A. Zone 3	USA – 1.8 MHz	Donor: Ranko Boca, YT6A
Mitch Mason, K7RL	Manuel Fonseca, W2MF	U.S.A.
Donor: Dave Pruitt, K8CC & Greg Surma, K8GL	Donor: CQ magazine	K3LR (Oprs. K3LR, N2NC, N5NJ, N4HY, K1AR, WM5R, K3UA, K17WX, N3GJ, N3SD, W9ZRX, K4SQR)
U.S.A. Zone 4	Carib./C.A. (21 MHz)	Donor: Kim Chun, KH7U
Mike Wetzel, W9RE	VP5DX (James Iori, NU4Y)	Donor: Dan Robbins, KL7Y Memorial
Donor: Dave Pruitt, K8CC & Greg Surma, K8GL	Donor: Nate Moreschi, N4YDU	
Canada	Europe – 28 MHz	Europe
VC3L (Opr. Ron Kraats, VE3AT)	ZA/OH2BH (Opr. Martti Laine, OH2BH)	IR4X (Oprs: I4TJE, I4IND, I4EAT, I4IKW, I4AVG, I4VEQ, IK4DCT, IK4EWK, IK4CZF, IZ4BOY, IK2NCJ, IK2QPR, IZ3EYZ)
Donor: Niagara Frontier Int'l DX Assn. VE3WT Memorial	Donor: Worldradio	Donor: Aki Nagi, JA5DQH
Caribbean/C.A.	Europe – 21 MHz	Oceania
8P1A (Opr. Thomas Georgens, W2SC)	Jiri Sanda, OK1RI	VK4CZ (Oprs: VK4JSR, VK4CZ, VK4WR, VK4FI, VK4APG, VK4TU)
Donor: Alex M. Kasevich, VP2MM	Donor: Tine Brajnik, S50A	Donor: Japan CQ Ham Radio
Europe	Europe – 14 MHz	MULTI-OPERATOR, MULTI-TRANSMITTER
GI1W (Opr. Robert Cummings, GI0KOW)	SO2R (Opr. Kaz Drezwiecki, SP2FAX)	World
Donor: Potomac Valley R.C. – W4BVV Memorial	Donor: CQ magazine	EA8ZS (Oprs: EA8ZS, OH1JT, OH1MA, OH1RY, OH2IW, OH2HE, OH2JA, OH2MM, OH2UA, OH4JFN, OH5BM, OH6EI, OH7JR, OH7RR, OH0XX)
Europe Low Power	Europe – 7 MHz	Donor: Dave, W6NL and Barb, K6BL Leeson
CT7B (Opr. Jose Manuel Farto Lopes, CT1CJJ)	YT7A*	
Donor: Scott Jones, N3RA & Tim Duffy, K3LR	Donor: CQ magazine	U.S.A.
Russia	Europe – 3.7 MHz	W3LPL (Oprs: W3LPL, K1RZ, ND3A, ND3F, AI3M, NK3R, K3RA, W3UR, NN3W, WR3Z, W3ZZ, KD4D, K4ZA, AC5RR, W6AAN, K9QQ)
RK4FF	LX7I (Opr. Philippe Lutty, LX2AJ)	Donor: CQ magazine
Donor: Roman Thomas, RZ3AA	Donor: Ted Demopoulos, KT1V	
Africa	Europe – 1.8 MHz	Europe
D4B (Opr. Alexander Telmurazov, 4L6A)*	Bojan Sever, S57M*	9A1A (Oprs: N4PN, NF4A, S52OP, 9A5W, 9A5E, 9A2DQ, 9A2EU, 9A4WW, 9A6A, 9A5K, 9A8W, 9A4CD, 9A9A)
Donor: Gordon Marshall, W6RR	Donor: Robert Kasca, S53R	Donor: Finnish Amateur Radio League
Asia	Oceania (14 MHz)	
A61AJ (Opr. Robert Kasca, S53R)	K. S. Smith, VK6LW	Japan
Donor: 2 AM Dining Pizza Gang	Donor: Bruce D. Lee, KD6WW	JA3YBK (Oprs: JH3PZR, JG3KIV, JI3OPA, JP3PZD, JH4NMT, JR4ISF, JF4FUF)
Japan	Asia – 14 MHz	Donor: Ryozo Goto, JH3JYS
Hiroyuki Inaba, JS3CTQ	Nodir Turson-Zadeh, EY8MM	
Donor: Tack Kumagai, JE1CKA	Donor: Al Teimurazov, 4L5A – JA4FVM Memorial	CONTEST EXPEDITIONS
Japan Low Power	Japan – 21 MHz	World Single Operator
Masaru Takahashi, JS1OYN	Ooshika Tarou, JI2UNR	VK9XD (Op: VK2CZ)
Donor: Western Washington DX Club	Donor: DX Family Foundation	Donor: National Capitol DX Assn. Stuart Meyer, W2GHK Memorial
Oceania	Japan – 14 MHz	World Multi-Single
VK9XD (Opr. David Burger, VK2CZ)	Akira Asai, JA8RWU	C91Z (Oprs: ZS6WPX, ZS6JR)
Donor: Northern California DX Club	Donor: Take Yokoyama, JL1BLW	Donor: Gail Schieber, K2RED
South America	MULTI-OPERATOR, SINGLE TRANSMITTER	World Multi-Multi
P40Y (Opr. Andrew Faber, AE6Y)	World	FP/VE7SV (Oprs: VE7SV, VE7AHA, VE7CC, VA7NT, VE7SZ, VE7VR, XE1KK, N7RO)
Donor: Yankee Clipper Contest Club	IH9P (Oprs: I2IFT, I2PJA, I8QLS, IK2ANI, IK2CIO, IK2HKT, IK2RZP, IK7JWY, IK8ETA, IN3QGY, IN3ZNR, IT9BLB, IT9WPO, IT9ZMX, OK1FUA, W1NA)	Donor: Tachio Yuasa, JA9VDA
SINGLE OPERATOR, SINGLE BAND	Donor: So. Calif. DX Club – W6AM Memorial	SPECIAL SINGLE OPERATOR AWARD
World – 28 MHz	U.S.A.	World-All Band Under 21 years old
Juan Manuel Morandi, LU1HF	KT1V (Oprs: KT1V, KC1F, WC1M, K1RX)	Vakhtang Mumladze, 4L6AM
Donor: Joel Chalmers, KG6DX	Donor: Carolina DX Assn.	Donor: Gene Zimmerman, W3ZZ
World – 21 MHz	Carib./C.A.	
PX5E (Opr. Sergio Almeida, PP5JR)	VP5X (Oprs: KY1V, WA4PGM, N0VD, K0RAY, CT1ILT)	
Donor: Robert Naumann, N5NJ	Donor: Eric Scace, K3NA	
World – 14 MHz	Africa	
D44TD (Opr. Alberto Annesi, IV3TAN)	CQ9K (Oprs: CT1BOH, CT3BD, CT3DL, CT3DZ, CT3EE, CT3EN, CT3HK, CT3IA, CT3HK, CT3KU, CT3KY, CT3LG, CT3MD)*	
Donor: North Jersey DX Assn. – K2HLB Memorial	Donor: Tikiriki Contest Club – IH9P	
World – 7 MHz		
Joseph Cornee, F6CTT		
Donor: Fred Laun, K3ZO – K7ZZ Memorial		
World – 3.7 MHz		
Jurek Smoczyk, SP3GEM		
Donor: Fred Capossela, K6SSS		

*Second place

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
CN2R	293/14/73	730/19/84	818/28/103	1838/38/144	1782/37/138	3194/36/126
D4B	250/15/71	267/20/78	479/26/88	2635/40/150	1926/36/144	3242/35/143
8P1A	244/10/25	366/20/71	1087/26/101	2199/36/127	2564/34/127	2922/32/117
A61AJ	110/9/48	504/26/88	651/29/101	1444/37/129	1434/36/131	3061/36/125
P49Y	72/7/17	250/15/43	397/18/68	1618/30/96	2022/28/103	2324/29/88
GI1W	397/10/54	829/22/82	881/26/108	993/34/108	1756/28/108	1511/32/114
EA9LZ	36/6/26	268/12/56	881/20/73	1258/26/82	1388/31/93	1823/28/83
FS/AH8DX	49/8/26	212/15/42	489/24/89	1171/31/111	1571/31/113	2004/26/105
K4ZW	34/9/25	239/20/72	303/22/79	1011/36/130	1154/36/119	1126/31/112
KQ2M/1	49/12/30	263/17/72	324/22/91	1107/34/125	1304/31/114	801/25/100

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K4ZW	34/9/25	239/20/72	303/22/79	1011/36/130	1154/36/119	1126/31/112
KO2M/1	49/12/30	263/17/72	246/22/91	763/39/136	1429/35/130	1114/32/120
K5ZD/1	46/12/29	355/16/70	275/24/82	1107/34/125	1304/31/114	801/25/100
W9RE	289/16	123/19/61	319/25/88	872/37/121	1248/39/128	806/28/100
K3CR	44/13/25	292/19/77	311/20/79	623/35/114	793/35/108	799/28/101
K3ZO	34/9/21	49/11/27	388/19/81	632/28/102	1087/31/105	751/27/98
AA1K/3	35/10/22	133/14/49	228/18/71	797/35/124	705/34/119	843/26/100
W3BGN	42/11/25	199/17/68	238/23/71	612/35/106	631/33/98	936/26/109
N2IC/5	15/8/13	81/19/37	336/27/70	401/33/101	805/36/117	724/32/102
K7RL	16/6/6	104/20/37	392/26/70	865/34/107	850/35/99	479/26/68

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

IH9P	435/13/77	528/17/79	1363/29/117	1723/40/150	1865/39/149	2100/37/150
CQ9K	80/11/51	349/18/73	495/28/113	1685/40/150	2236/36/148	2995/38/153
FY5KE	114/14/52	386/18/68	579/23/90	1767/36/139	1860/38/147	3531/34/146
5B/AJ2O	251/10/64	497/21/81	1141/25/105	1708/37/145	1680/37/134	2432/36/135
9Y4ZC	44/7/19	297/18/69	686/22/93	1648/39/149	2116/34/128	2577/31/133
VY2ZM	311/18/73	1007/23/95	449/27/105	1937/40/157	1828/34/138	554/29/127

WORLD MULTI-OPERATOR TWO TRANSMITTER

VP2E	216/17/62	945/23/102	2346/34/145	3794/40/172	4771/39/163	4796/35/160
PJ2T	159/10/30	403/21/74	1209/29/104	2763/40/142	3196/34/125	3541/32/127
CT9L	67/7/35	348/14/70	993/26/94	1820/34/136	2785/36/142	3583/36/143
IR4X	91/9/61	1038/26/93	1326/33/127	1854/40/155	2289/40/158	2028/37/160
K3LR	56/14/40	439/27/89	830/33/122	2024/40/169	2899/40/166	1390/33/145
PS2T	2/2/2	51/14/25	406/30/104	2321/40/153	2650/40/160	3311/34/147

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

EA8ZS	334/16/72	768/23/94	2040/33/122	4012/40/176	4178/39/174	4354/37/164
HC8L	295/13/42	891/26/88	1870/34/124	3435/37/151	4699/40/155	4489/31/134
FP/VE7SV	827/15/70	1869/20/93	2200/28/107	2813/35/125	3361/30/127	3142/27/108
KH7X	192/12/14	996/30/60	1909/37/92	2885/39/161	3317/38/126	3331/38/106
9A1A	923/11/68	1744/29/107	2235/35/129	3245/40/159	2569/39/150	2113/39/154
V26B	101/7/20	499/18/73	1496/29/111	3256/37/128	3092/35/114	4019/35/131

cation process. Submitting an electronic log is easy, and please send in your log no matter how small. Send your SSB log and summary forms to <ssb@cqww.com> (CW to <cw@cqww.com>). Please send your log in Cabrillo format. If you did everything okay, you will get back an acknowledgement and a tracking number. If there was something wrong, you will get a message telling you what to do to correct the error. You can then resubmit your log to the same e-mail addresses given above.

Anyone who submits an electronic log receives a UBN report of how their log was judged. You can learn more about the UBN report by going to the CQWW.com website; scroll down to the end where it is explained. The CQWW Contest Committee provides many ways for an entrant to check his/her log for category, club, operator, and score accuracy. Long before the final results are published a listing of log received, your category, and UBN list is published on the CQWW site. Thanks to the input from numerous entrants, some systemic errors were found and corrected. All these efforts help to make the results as accurate as possible.

Several problems have arisen because of the use of help in the contest. If you are single operator in *any* category, you cannot receive help in *any* way from another person. Each year we receive reports of someone allegedly having another operator spot or work QSOs for him. This is cheating and will not be tolerated. The use of packet to self-spot is against the rules. Self-spotting can be broken down into doing it yourself, and trying to hide the fact that you are doing it by using other callsigns. There is nothing wrong with coming across a station and spotting it, but self-spotting is against the rules. Participants enter the contest to have fun, meet friends, perhaps work some new ones, and compete fairly.

Thanks

Thanks to the CQWW log checkers who validated the winners and

provided insight into many contesting topics. They are K1DG, K3WW, K3ZO, KR2Q, N2AA, N2NC, N3ED, N6ZZ, N9RV, W3ZZ, K1AR, KM3T, KT3Y, N5TJ, N5NJ, K6AW, and N8BJQ. The DX advisors offered advice and sorted out potential problems: CT1BOH, DL6RAI, EA3DU, F6BEE, G3SXW, I2UIY, JE1CKA, OH2KI, OH2MM, PY5EG, S50A, UA9BA, VA7RR, VE3EJ, RA3AUU, and E21EIC. A special thanks to Dick, N6AA, and Larry, N6TW, who once again spent countless hours to make the CQWW database the best in contesting. The CQWW uses the software developed by Tree, N6TR. Additional software provided by WT4I was used. The CQWW records are maintained by John, N2NC, and K3EST. Phil, N6ZZ, put in lots of hours making sure the database was as clean as possible. Thanks to John, K1AR, for his advice.

Congratulations to all the winners and entrants! CU in the 2005 contests!

73, Bob, K3EST

USA QRW

Chose 40m so I could spend days with the family. Need to send family away next time! . . . **AA0MQ**. Great conditions on all bands made this one lots of fun. Thanks to the contest sponsor, volunteers, and DXpeditioners who devote their time and energy to make the contest such an exciting event and thanks to the loyal members of team K1IR. . . . **K1IR**. Conditions were super; just like old times again! . . . **K4WI**. Nice to see so many signals from around the world. Certainly this is the cornerstone of the DX contest year. Thanks! . . . **K5PAX**. Dug mic out of trash box to work first SSB contest in years. Good practice at digging out mults. . . . **K6KYJ**. Had fun and got a few new ones. . . . **K8OT**. Most fun I ever had with ham radio! . . . **KB6JMF**. Long live the CQWW! . . . **KC1XX**. Great conditions! Great pile-ups! Great radio! . . . **KC2HZW**. Outstanding conditions! More BY's on the bands than ever. . . . **KC7V**. Who said you can't have fun with just a few watts and some wire in your backyard trees? Special thanks to all the folks who activated rare and interesting countries. You guys really add the spice to this fun contest. . . . **KR1ST/4**. What a great weekend of contesting! 10 meters was smoking! . . . **N3MX**. Wow! Where

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
GI1W	397/10/54	829/22/82	881/26/108	993/34/108	1756/28/108	1511/32/114
GW4BLE	118/7/45	629/14/68	645/23/86	809/30/96	1343/27/86	1095/32/87
S50A	88/9/44	257/13/62	806/30/96	801/30/97	1419/32/103	863/33/114
ESSTV	305/10/56	476/22/76	637/35/111	962/39/125	1030/37/129	769/32/124
M6T	81/5/38	591/12/60	550/26/83	822/35/99	1323/35/111	1014/34/102
GM7V	241/8/47	722/16/72	380/23/87	793/32/113	1193/36/117	959/31/114
DJ5MW	228/7/51	540/12/66	438/23/96	814/30/106	932/36/118	927/36/123
DJ4PT	171/11/48	379/18/72	420/28/88	1131/29/91	1152/33/92	573/32/80
RK4FF	98/8/43	582/17/71	710/23/87	837/39/114	944/36/135	1470/35/126
S57DX	171/8/45	621/16/69	540/26/95	1320/31/109	569/28/90	636/35/111

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

OM8A	257/12/69	681/27/93	780/30/121	1547/40/154	1396/40/146	817/38/153
OE2S	321/12/62	746/16/73	706/28/107	1193/40/141	1467/39/151	1208/38/153
OM7M	166/13/67	473/23/85	941/34/123	1509/39/141	1898/40/158	227/38/151
OK5W	59/11/58	474/25/84	1198/33/125	789/40/145	1492/38/150	976/37/150
RW2F	420/14/69	701/21/85	647/32/116	1489/40/150	1363/40/145	562/37/153
S50C	129/9/60	572/20/74	985/33/119	1156/37/139	1254/39/142	715/37/148

EUROPE MULTI-OPERATOR TWO TRANSMITTER

IR4X	91/9/61	1038/26/93	1326/33/127	1854/40/155	2289/40/158	2028/37/160
9A7A	326/9/62	1050/19/82	1414/31/124	1823/40/147	2282/37/149	1758/38/156
UU7J	313/12/63	940/26/94	823/33/118	2740/40/161	2372/40/148	1655/37/151
CT8T	240/11/57	549/18/79	1324/28/105	1852/37/147	2220/37/135	2212/39/142
HG6N	523/11/62	921/17/80	970/32/120	1382/39/140	2274/37/145	1338/38/151
RU1A	354/11/60	810/27/99	1442/36/133	2091/40/155	1912/40/146	535/33/142

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

9A1A	923/11/68	1744/29/107	2235/35/129	3245/40/159	2569/39/150	2113/39/154
DF0HO	1037/12/68	1713/26/102	2500/35/138	2140/40/161	2209/40/164	1465/39/162
DF0CG	952/14/70	1259/21/85	1856/33/126	2867/40/155	2231/38/148	1046/37/141
OT4A	81/12/64	1711/20/83	2065/33/121	2374/38/152	2103/39/137	1658/37/151
MD4K	1114/13/67	1531/17/83	2710/26/109	2465/39/151	2453/38/158	1810/33/143
LZ9W	486/9/66	665/18/83	1882/32/124	2429/40/161	2513/39/153	1445/37/142

did that come from? I was expecting a bottom-of the-cycle contest, not this. . . . **W1JQ**. This contest was far better than expected for my meager station. The high band openings really made the contest fun. Thanks to all the "good ears" at the DX stations. . . . **W4KAZ**. Best effort to date! Very proud of our "cheap spumante station on a light beer budget." . . . **W4WS**. Cannot believe I worked 39 zones at this point in the sunspot cycle! And, I heard zone 26 on two bands but couldn't work it! . . . **W8TN**.

Surprisingly, 10m was good enough to produce DXCC on that band alone, along with 15 and 20 meters DXCC, in spite of the solar flare. Two new operators at the station were impressed and contributed significantly to the overall score. . . . **W8ZA**. Thanks to the solar gods for the propagation. . . . **WA3G**. Planned on high power but the amp blew during warmup, then got laryngitis and couldn't talk, not good for a phone contest! At least my wife promised a voice keyer for Christmas! . . . **WB2KLD**. Band conditions were great for entire contest. All the bands were crowded. Worked many new countries on all four bands. . . . **WB2QLP/4**. This has got to be the best CQWW of all we have participated in. . . . **WB3CJU**. Rig would not transmit on 15m! 82 countries on 10m with a sloper! . . . **WR3Y**. Great contest. Multi/Multi on Friday night until about 2:00 AM, then Single-Op Saturday plus a couple hours Sunday. Unusually great conditions on 10 meters! WX3B will be off the air for several months while I move and install some more, bigger, better antennas! . . . **WX3B**.

DX QRM

Newly licensed, first contest. Had a ball on 10m. Gonna be back next year, better prepared better location. . . . **2E0VPE**. First CQWW from the new zone 1 QTH. Propagation to Europe stunk most of the weekend, but the JA's were steady and profuse. Picked up several all time new countries in Asia, Pacific, and eastern Europe. All in all my best contest effort ever. Hope to set the bar higher next year and do even better despite the solar cycle. . . . **AL9A**. It's difficult to operate contest when you have problem with voice, hi. . . . **D4B**. Our first try from the refurbished school club station DL0RSG. We had a lot of fun and quite a bit of practice for future contests! Conditions were surprisingly good, and 10 meters was just packed with stations! . . . **DL0RSG**. Operated with two fishing rods stucked out of the hotel balcony. Recommended! . . . **EA6/LY1DF**. We enjoy this contest every year! First M/S from this QTH. 10m was a big surprise. . . . **EI7M**. A fantastic adventure!

TOP SCORES IN VERY ACTIVE ZONES

Zone 3	VO1AU.....7,143,551	SN7L.....1,864,708
K7RL.....3,524,400	VO1MP.....6,087,368	OK1AVY.....1,644,019
W6PH.....1,858,584	K3CR.....5,184,258	*9A7P.....1,631,019
AA7A.....1,145,928	K3ZO.....4,564,235	
K6XX.....1,121,526	AA1K.....4,546,820	Zone 16
KG7H.....1,115,316	W3BGN.....4,462,850	RK4FF.....5,301,682
WK6I.....1,054,788	N2RM.....3,417,276	RK4FD.....2,515,315
*NT6AA.....1,041,750		*UA4FER.....2,045,730
W6TK.....956,956		*RV3FF.....1,576,328
Zone 14	GI1W.....9,836,574	*RW3GU.....1,369,500
*VE7XF.....903,222	GW4BLE.....6,535,274	*RU3QW.....1,325,808
N5LZ/7.....596,148	M6T.....6,038,400	RX3DCN.....1,157,226
	GM7V.....5,948,712	*UV1G.....1,011,560
	DJ5MW.....5,536,256	*RZ4FA.....962,136
	DJ4PT.....5,491,016	RA6AFB.....886,830
	VE3EJ.....6,031,256	
	*CT7B.....3,511,185	
	N2IC/5.....3,802,050	Zone 25
	F5RZJ.....3,052,504	JS3CTQ.....3,618,983
	*EA7RM.....2,961,569	JA7NVF.....2,794,697
	DK5QN.....2,749,827	JR1AIB.....2,604,640
	VE3XN.....2,666,520	Zone 15
	VE3KZ.....2,211,075	JA3USA.....2,504,802
	N8BJQ.....2,075,332	JA2BNN.....1,277,560
	KU1CW/0.....2,024,502	ES5TV.....6,065,520
	NR0X.....1,996,852	J12KXK.....1,168,398
		S57DX.....4,919,460
		JR3NZC.....904,430
	YL6W.....2,530,412	*JS1OYN.....625,500
	K4ZW.....7,583,034	*LY9A.....2,135,931
	KQ2M/1.....7,506,464	*OH2RA.....2,102,867
	K5ZD/1.....7,146,952	*J17VNJ.....359,784
		*Low Power

Thanks to all who made it possible. . . . **FP/VE7SV**. First time entry from UK young contestants (helped by some older ones!). We all had great fun. . . .

G1A. Fantastic conditions to North America on 10 meters for this position in the sunspot cycle. . . . **G4NXG**. Another great contest. Gave some of the MM3 callsigns a go. Youngest was 10 years old; she did enjoy it. . . . **GM2T**. Wow! Totally unexpected 10/15 metre condx; should have believed prediction in CQ magazine! Never seen rate of 276/hour on CT before, even if it was for only 10 QSOs! . . . **GW3JXN**. Many prefixes not given clearly. . . . **GW3YVC**. Weather very bad, station performed well, eating time was always very important, so that the transmission stopped! A very pleasant weekend of radio activity. . . . **HB9AUS**. Wow, what a funny contest! Great conditions on 10m, way beyond expectations, led us to our best ever score since J49Z started in 2001. . . . **J49Z**. The Cambridge University Wireless Society (G6JUW/ M4A) joined forces with the Granta Contest Group (M0CAM/ M4R) for this multi-single operation. Thanks to everyone who worked us. . . . **M4A**. My first contest. I only received my licence in the spring. Age 15 years only. . . . **MM3PAE**.

First time contesting as QRP. QRP was fun, and many ops had great ears, so it was a pleasure to work. . . . **OH6GDX**. The first attempt from our new contest location. . . . **OM8A**. Great propagation on both days. Propagation is like a beautiful woman: we will never figure it out, but we keep on trying! . . . **ON4APU**. Fantastic contest! Real dream conditions with great DXCC activation also on the low bands. Very promising for the coming years. . . . **OT4L**. Nice contests. . . . **OT4W**. Condx good. Contest nice. Till next test. 81 years young. . . . **PA0KDM**. Wow! Ten meters was hot during the contest! Just great to hear so many contest friends on the band. . . . **PG2AA**. Great pleasure in having the young generation operating the station in Araraquara. . . . **PS2T**. Just for fun! Neither of us have been amateurs for more than a year! C ya next year. . . . **SM6U (SM5YZB & SM6YOU)**. Very fun, much better condx then expected. . . . **SM7E**. Nice to be present again with 100W and vertical entry. Only 10m SO Assisted, QSO on other bands. . . . **SP5ES**. Worked with only 30W. . . . **T92M**. It was for most of the team members the first time. Perhaps too many parameters to manage, but sure, our rookies really enjoyed it. Not a big score, but is that the most important for us? No, or not yet! . . . **TM7Z**. Wow! A great contest and terrific condx! I'll look for a better low-band antenna for 2005. . . . **VC3W**. Operated from Zone 2 in Sept Isles, Canada with a complete field-day type setup on the St. Lawrence seaway. Vertical antennas responded excellently. Great fun and excellent band conditions. . . . **VE2/K3FMQ**. We took the Multi-2 category literally and had only two operators the whole weekend. Conditions were much better than expected and even lacking a 160m antenna we had the best score ever for the VE3SY station in a CQWW SSB contest. . . . **VE3XD**. This contest was my personal best, despite R2 blackouts, CMEs, and dead bands on 80 and 160. Next year I will be ready with decent antennas for 40, 80, and 160! I am still amazed at the instant silence at 2400Z Sunday! . . . **VE6ZC**. Wow!! 255 Qs with only 13 operators. I bet this is a new record that will stand for a very long time! This was a contest training session. Ten ops with no ticket and no ham experience. I think I turned four of them on. . . . **VE7FO**. Who ever expected 10m to be as hot as it was? 10m proved to be the ultimate money band, with LP openings into the Caribbean until well after midnight AEST. Great contest, and no severe storms like last year, plus a new high score.

What more could we ask for? . . . **VK4CZ**. Great contest. We turn ourselves into zombies. We end up with a hoarse voice. We deny ourselves sleep. We are hungry. We are thirsty. It still remains a great contest. . . . **VK7VH**. A great contest and a very talented crew. We were really glad to get in one more good contest season before this solar cycle bottoms. We will be back next year regardless of what the solar cycle does! . . . **VP2E**. Unbelievable propagation plus great people makes great fun. . . . **VY1JA**. This was my first contest to enter! Lots of fun. Nice to be able to provide zone 01 and received thanks. . . . **WL7BDO**. This was a memorable propagation weekend during this stage of the solar cycle. Go CQWW! . . . **XE2AC**. Using new

antenna. My best result on 21 MHz in Latvia now refreshed. . . . **YL2BJ**. Tks contest! . . . **YL2IP**. Tnx for nice contest! . . . **YL2PQ**. Age 21. My first contest ever with more than 1 mil. points and also first contest ever with all the 40 zones. Just beautiful! . . . **YP3A**. The 10 meter god smiled upon us, but the equipment god was out to lunch. . . . **ZK1AQT**. Thanks for the behind the scenes work! . . . **ZL4PW**. Ten metres was fantastic! Worked 9 new countries and 1 zone. Once again another great contest! Hope to work you all and more in CQWW 2005. Until then good DX. Thanks to CQ magazine for sponsoring this contest! . . . **ZS5T**. Thanks to PY5E4G, Oms, for letting me use his FB station. . . . **ZW5B**.

TOP SCORES

WORLD		EUROPE		USA	
Single Operator	All Band	Single Operator	All Band	Single Operator	All Band
CN2R.....	20,938,680	V31LZ.....	975,069	Z37M.....	411,983
D4B.....	20,433,438	ZX2B.....	922,194	UX0IB.....	334,126
8P1A.....	16,250,784	FM5FJ.....	782,973	J43J.....	273,700
A61AJ.....	15,272,745	14 MHz		14 MHz	
P49Y.....	10,149,492	P43E.....	923,494	9A7D.....	520,128
G11W.....	9,836,574	YV5KG.....	655,796	SP3SLO.....	480,339
EASLZ.....	8,196,512	9A7D.....	520,128	SP4R.....	450,369
FS/AHDX.....	8,157,456	SP3SLO.....	480,339	T92D.....	379,925
K4ZW.....	7,583,034	SP4R.....	450,369	SZ5U.....	334,695
KQ2M/1.....	7,506,464	BD5RT.....	407,456	S85WW.....	331,344
7 MHz		7 MHz		7 MHz	
LU1HF.....	2,060,856	CO2JD.....	113,587	Z32XA.....	86,526
LU6ETB.....	1,902,470	K3BU/2.....	99,691	S54A.....	80,154
ZV1R.....	1,390,940	Z32XA.....	86,526	OL6T.....	67,608
9Y4NZ.....	1,215,643	S54A.....	80,154	UA1ANA.....	66,768
9J2KC.....	1,061,595	RU0SN.....	76,557	CT1EEN.....	574,842
ZV5A.....	1,006,264	T94FC.....	68,208	LZ9X.....	475,577
3.7 MHz		28 MHz		G0AEV.....	468,769
PX5E.....	2,280,502	SP5KEH.....	105,436	US5D.....	367,748
OK1RI.....	1,369,717	SP4ZD.....	72,384	3.7 MHz	
VP5DX.....	1,336,838	T93Y.....	67,486	SP5KEH.....	105,436
9A1P.....	1,147,578	LY1DT.....	65,360	SP4ZD.....	72,384
OH2BH.....	959,379	S53F.....	61,918	T93Y.....	67,486
KG4WW.....	882,691	YZ1EW.....	59,128	LY1DT.....	65,360
21 MHz		21 MHz		S53F.....	61,918
D44TD.....	2,570,282	YM0T.....	59,472	YZ1EW.....	59,128
HK1XX.....	1,520,225	Z33F.....	34,255	21 MHz	
EY8MM.....	1,506,546	SP6IHE.....	29,920	OK1RI.....	1,369,717
SO2R.....	1,376,543	SP6IHE.....	29,920	9A1P.....	1,147,578
C40M.....	1,374,208	S54V.....	27,216	OH2BH.....	959,379
YZ3A.....	1,220,138	SP4XQN.....	18,038	OH0V.....	802,608
7 MHz		9A7Z.....	17,766	SN8V.....	686,565
F6CTT.....	668,763	P40A.....	4,707,598	YT1BB.....	675,078
P43P.....	603,000	F5BEG.....	906,796	1.8 MHz	
Y7TA.....	590,975	N4KG.....	821,601	Z33F.....	34,255
SN7Q.....	586,392	LY4XX.....	804,174	SP6IHE.....	29,920
YT0A.....	576,345	K1ALMR.....	752,400	S54W.....	27,216
VP5KE.....	528,082	DF1DX.....	627,644	SP4XQN.....	18,038
3.7 MHz		EA8TX.....	595,680	9A7Z.....	17,766
SP3GEM.....	391,006	SK3W.....	502,320	OM4JD.....	15,984
LX7I.....	279,680	KO1H.....	492,690	QRP All Band	
AA1BU.....	237,600	UA3BL.....	422,784	F5BEG.....	906,796
UT3UA.....	153,104	7 MHz		LY4XX.....	804,174
EO6F.....	146,744	SP3GEM.....	391,006	DF1DX.....	627,644
S57O.....	139,700	LX7I.....	279,680	SK3W.....	502,320
1.8 MHz		AT3UA.....	153,104	S59D.....	305,502
OZ1DD.....	106,344	OZ1DD.....	106,344	DF3AX.....	294,680
S57M.....	100,964	S57M.....	100,964	EA1GT.....	288,672
OH0NL.....	95,628	OH0NL.....	95,628	IK5RUN.....	250,572
OK1DX.....	95,408	DF2FD.....	1,060,320	RN6AL.....	239,882
PA3GCV.....	94,527	W2RE.....	6,576,750	HA1CW.....	233,496
IV3OWC.....	69,186	RG9A.....	6,511,351	7 MHz	
Low Power All Band		K3VV.....	5,821,601	K4XS.....	372,608
SP3GEM.....	391,006	P40V.....	9,369,348	K4XS.....	372,608
LX7I.....	279,680	3V8BB.....	8,781,750	K7M.....	342,540
AA1BU.....	237,600	FM5BH.....	8,606,550	K6HNZ.....	232,713
UT3UA.....	153,104	K3OO.....	6,651,964	W8TWA.....	181,260
EO6F.....	146,744	KO1H.....	492,690	W8CZN.....	178,866
S57O.....	139,700	W2RE.....	6,576,750	QRP All Band	
1.8 MHz		RG9A.....	6,511,351	N4KG.....	821,601
OZ1DD.....	106,344	K3VV.....	5,821,601	KA1LMR.....	75,2400
S57M.....	100,964	YV5KG.....	58,670	KO1H.....	492,690
OH0NL.....	95,628	9A1P.....	1,147,578	N1TM.....	348,300
OK1DX.....	95,408	SP4ZD.....	72,384	N8IE.....	312,420
PA3GCV.....	94,527	LY4XX.....	804,174	WA0VBW.....	281,316
IV3OWC.....	69,186	K1ALMR.....	752,400	KR1ST/4.....	277,290
Multi-Operator Single Transmitter		DF1DX.....	627,644	K8ZT.....	223,584
SP3GEM.....	391,006	EA8TX.....	595,680	N7IR.....	106,212
LX7I.....	279,680	SK3W.....	502,320	K10OV.....	59,563
AA1BU.....	237,600	KO1H.....	492,690	Assisted All Band	
UT3UA.....	153,104	W2RE.....	6,576,750	K3OO.....	6,651,964
EO6F.....	146,744	RG9A.....	6,511,351	W2RE.....	6,576,750
S57O.....	139,700	YV5KG.....	58,670	K3WW.....	5,850,670
Low Power All Band		9A1P.....	1,147,578	K11G.....	5,710,042
SP3GEM.....	391,006	SP4ZD.....	72,384	K5R.....	38,380
LX7I.....	279,680	LY4XX.....	804,174	K7SS.....	17,545
AA1BU.....	237,600	K1ALMR.....	752,400	OH0Z.....	4,256,166
UT3UA.....	153,104	DF1DX.....	627,644	W8AEF/7.....	7,344
EO6F.....	146,744	EA8TX.....	595,680	DJ2YA.....	4,175,600
S57O.....	139,700	SK3W.....	502,320	OK2FD.....	3,716,264
Multi-Operator Two Transmitter		KO1H.....	492,690	WU2M.....	3,387,282
SP3GEM.....	391,006	W2RE.....	6,576,750	RX4HZ.....	3,362,978
LX7I.....	279,680	RG9A.....	6,511,351	YI2KO.....	3,122,834
AA1BU.....	237,600	YV5KG.....	58,670	W8W.....	2,945,169
UT3UA.....	153,104	9A1P.....	1,147,578	ON4UN.....	2,902,592
EO6F.....	146,744	SP4ZD.....	72,384	W3GH.....	2,196
S57O.....	139,700	LY4XX.....	804,174	W7IZL.....	1,840
Multi-Operator Multi-Transmitter		DF1DX.....	627,644	Low Power All Band	
SP3GEM.....	391,006	EA1WS.....	1,462,107	N1UR.....	2,624,600
LX7I.....	279,680	SP4ZD.....	72,384	WA1S.....	2,298,622
AA1BU.....	237,600	WU2M.....	1,462,107	N8II.....	1,995,760
UT3UA.....	153,104	WU2M.....	1,462,107	N4T2Z/9.....	1,704,208
EO6F.....	146,744	WU2M.....	1,462,107	K2PS.....	1,691,280
S57O.....	139,700	WU2M.....	1,462,107	N5AW.....	1,464,408
28 MHz		WU2M.....	1,462,107	W1JQ.....	1,400,431
OZ1DD.....	106,344	WU2M.....	1,462,107	N5BO.....	1,313,671
S57M.....	100,964	WU2M.....	1,462,107	W1K1.....	1,310,647
OH0NL.....	95,628	WU2M.....	1,462,107	NR3X/4.....	1,237,530
OK1DX.....	95,408	WU2M.....	1,462,107	Multi-Operator Two Transmitter	
PA3GCV.....	94,527	WU2M.....	1,462,107	K11R.....	18,382,950
IV3OWC.....	69,186	WU2M.....	1,462,107	N3RS.....	13,533,848
21 MHz		WU2M.....	1,462,107	K4JA.....	12,301,520
OZ1DD.....	106,344	WU2M.....	1,462,107	WE3C.....	7,527,555
S57M.....	100,964	WU2M.....	1,462,107	W4RM.....	6,494,883
OH0NL.....	95,628	WU2M.....	1,462,107	NK7U.....	5,742,664
OK1DX.....	95,408	WU2M.....	1,462,107	Multi-Operator Multi-Transmitter	
PA3GCV.....	94,527	WU2M.....	1,462,107	W3LPL.....	19,574,100
IV3OWC.....	69,186	WU2M.....	1,462,107	KC1XX.....	19,473,602
21 MHz		WU2M.....	1,462,107	K9NS.....	15,075,228
OZ1DD.....	106,344	WU2M.....	1,462,107	K1TTT.....	12,635,727
S57M.....	100,964	WU2M.....	1,462,107	NQ4I.....	12,122,019
OH0NL.....	95,628	WU2M.....	1,462,107	K1RX.....	10,720,608
OK1DX.....	95,408	WU2M.....	1,462,107		

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.)

2004 SSB RESULTS SINGLE OPERATOR NORTH AMERICA

UNITED STATES

K02M1	A	7,506,464	3844	157	579	*WB2ZTH	641,572	579	106	322	AA4V	*	1,064,196	1002	107	305	*WATME	*	17,578	76	36	58	*K0NW6	*	33,354	131	47	55
K2ZD1	*	7,146,952	3888	142	520	*N2MUN	530,725	647	69	230	N1GC4	*	1,062,105	875	112	359	*N4TKD	*	17,496	96	23	58	*K6BIR	*	24,624	127	37	44
						*WA2JQK	526,008	589	86	286	W2YE4	*	986,455	872	101	314	*WBAKS/4	*	15,714	81	26	55	*K6CSL	*	15,633	84	39	46
						*W3TB2	474,801	584	77	22	N8PR4	*	984,312	847	109	332	*K10P/4	*	13,608	71	30	54	*AD6FR	*	14,007	74	29	40
						K2VM	331,516	459	62	206	NA4K	*	965,760	943	92	292	*K4FTO	*	12,750	82	31	54	*WA6NOL	*	13,689	74	33	48
						K2WA	306,698	423	77	18	K4IE	*	917,352	860	100	311	*K1VB	*	11,532	72	17	45	*K16PG	*	12,894	84	32	35
						K2SY	166,690	289	52	159	W4KW	*	911,040	887	104	312	*K4COS	*	11,130	59	20	50	*K0ELU	*	9,782	59	31	36
						*WB20Q0	142,317	302	46	143	N2UE4	*	908,500	841	99	296	*K4GR4	*	9,135	68	22	41	*K6TV	*	5,243	61	22	27
						*W2REH	118,360	212	51	169	K4SSU	*	801,608	786	94	294	*N1WU/4	*	4,785	50	20	35	*N6MAW	*	1,749	42	13	20
						*W1WP	107,975	237	48	127	W4WDP	*	704,508	534	88	220	*K4RKF	*	4,704	46	20	28	*N0E6	*	1,586	39	23	20
						K3GYS/2	107,562	222	54	143	W4YE	*	713,657	717	88	291	*KD4ULE	*	2,001	35	11	18	*K6ZCL	*	522	11	9	9
						*N2LXE	104,525	234	52	133	WB2OLP/4	*	668,160	789	84	264	*K0APK	*	1,620	38	12	18	*K6MZ	28	62,608	274	25	61
						*N2MTG	103,014	254	54	123	WC4E	*	599,325	720	80	225	*W4DEC	*	1,610	27	13	22	*N6RV	*	51,961	233	26	65
						*W2YK	93,617	197	40	139	K10K4	*	556,387	616	79	258	*K4AP	*	1,479	21	11	18	*WB7BNM/6	*	24,870	208	26	64
						*W1WP	122,100	239	46	139	AG4W	*	801,608	786	94	294	*N1WU/4	*	4,785	50	20	35	*W6SJ	*	1,897	15	12	11
						K2WT	91,572	225	37	119	N4AA	*	715,003	951	84	223	*K4RKF	*	4,704	46	20	28	*K6TV	*	5,243	61	22	27
						*W1WP	107,975	237	48	127	W4WDP	*	408,508	534	76	214	*W4AWBWI	*	5,507	49	14	33	*K6ZCL	*	522	11	9	9
						K3GYS/2	107,562	222	54	143	W4YE	*	713,657	717	88	291	*KD4ULE	*	2,001	35	11	18	*K6ZCL	*	522	11	9	9
						*N2LXE	104,525	234	52	133	WB2OLP/4	*	668,160	789	84	264	*K0APK	*	1,620	38	12	18	*K6MZ	28	62,608	274	25	61
						*N2MTG	103,014	254	54	123	WC4E	*	599,325	720	80	225	*W4DEC	*	1,610	27	13	22	*N6RV	*	51,961	233	26	65
						*W2YK	93,617	197	40	139	K10K4	*	556,387	616	79	258	*K4AP	*	1,479	21	11	18	*WB7BNM/6	*	24,870	208	26	64
						*W1WP	122,100	239	46	139	AG4W	*	801,608	786	94	294	*N1WU/4	*	4,785	50	20	35	*W6SJ	*	1,897	15	12	11
						K2WT	91,572	225	37	119	N4AA	*	715,003	951	84	223	*K4RKF	*	4,704	46	20	28	*K6TV	*	5,243	61	22	27
						*W1WP	107,975	237	48	127	W4WDP	*	408,508	534	76	214	*W4AWBWI	*	5,507	49	14	33	*K6ZCL	*	522	11	9	9
						K3GYS/2	107,562	222	54	143	W4YE	*	713,657	717	88	291	*KD4ULE	*	2,001	35	11	18	*K6ZCL	*	522	11	9	9
						*N2LXE	104,525	234	52	133	WB2OLP/4	*	668,160	789	84	264	*K0APK	*	1,620	38	12	18	*K6MZ	28	62,608	274	25	61
						*N2MTG	103,014	254	54	123	WC4E	*	599,325	720	80	225	*W4DEC	*	1,610	27	13	22	*N6RV	*	51,961	233	26	65
						*W2YK	93,617	197	40	139	K10K4	*	556,387	616	79	258	*K4AP	*	1,479	21	11	18	*WB7BNM/6	*	24,870	208	26	64
						*W1WP	122,100	239	46	139	AG4W	*	801,608	786	94	294	*N1WU/4	*	4,785	50	20	35	*W6SJ	*	1,897	15	12	11
						K2WT	91,572	225	37	119	N4AA	*	715,003	951	84	223	*K4RKF	*	4,704	46	20	28	*K6TV	*	5,243	61	22	27
						*W1WP	107,975	237	48	127	W4WDP	*	408,508	534	76	214	*W4AWBWI	*	5,507	49	14	33	*K6ZCL	*	522	11	9	9
						K3GYS/2	107,562	222	54	143	W4YE	*	713,657	717	88	291	*KD4ULE	*	2,001	35	11	18	*K6ZCL	*	522	11	9	9
						*N2LXE	104,525	234	52	133	WB2OLP/4	*	668,160	789	84	264	*K0APK	*	1,620	38	12	18	*K6MZ	28	62,608	274	25	61
						*N2MTG	103,014	254	54	123	WC4E	*	599,325	720	80	225	*W4DEC	*	1,610	27	13	22	*N6RV	*	51,961	233	26	65
						*W2YK	93,617	197	40	139	K10K4	*	556,387	616	79	258	*K4AP	*	1,479	21	11	18	*WB7BNM/6	*	24,870	208	26	64
						*W1WP	122,100	239	46	139	AG4W	*	801,608	786	94	294	*N1WU/4	*	4,785	50	20	35	*W6SJ	*	1,897	15	12	11
						K2WT	91,572	225	37	119	N4AA	*	715,003	951	84	223	*K4RKF	*	4,704	46	20	28	*K6TV	*	5,243	61	22	27
						*W1WP	107,975	237	48	127	W4WDP	*	408,508	534	76	214	*W4AWBWI	*	5,507	49	14	33	*K6ZCL	*	522	11	9	9
						K3GYS/2	107,562	222	54	143	W4YE	*	713,657	717	88	291	*KD4ULE	*	2,001	35	11	18	*K6ZCL	*	522	11	9	9
						*N2LXE	104,525	234	52	133	WB2OLP/4	*	668,160	789	84	264	*K0APK	*	1,620	38	12	18	*K6MZ	28	62,608	274	25	61
						*N2MTG	103,014	254	54	123	WC4E	*	599,325	720	80	225	*W4DEC	*	1,610	27	13	22	*N6RV	*	51,961	233	26	65
						*W2YK	93,617	197	40	139	K10K4	*	556,387	616	79	258	*K4AP	*	1,479	21	11	18	*WB7BNM/6	*	24,870	208	26	64
						*W1WP	122,100	239	46	139	AG4W	*	801,608	786	94	294	*N1WU/4	*	4,785	50	20	35	*W6SJ	*	1,897	15	12	11
						K2WT	91,572	225	37	119	N4AA	*	715,003	951	84	223	*K4RKF	*	4,704	46	20	28	*K6TV	*	5,243	61	22	27
						*W1WP	107,975	237	48	127	W4WDP	*	408,508	534	76	214	*W4AWBWI	*	5,507	49	14	33	*K6ZCL	*	522	11	9	9
						K3GYS/2	107,562	222	54	143	W4YE	*	713,657	717	88	291	*KD4ULE	*	2,001	35	11	18	*K6ZCL	*	522	11	9	9
						*N2LXE	104,525	234	52	133	WB2OLP/4	*	668,160	789	84	264	*K0APK	*	1,620	38	12	18	*K6MZ	28	62,608	274	25	61
						*N2MTG	103,014	254	54	123	WC4E	*	599,325	720	80	225	*W4DEC	*	1,610	27	13	22	*N6RV	*	51,961	233	26	65
						*W2YK	93,617	197	40	139	K10K4	*	556,387	616	79	258	*K4AP	*	1,479	21	11	18	*WB7BNM/6	*	24,870	208	26	64
						*W1WP	122,100	239	46	139	AG4W	*	801,608	786	94	294	*N1WU/4	*	4,785	50	20	35	*W6SJ	*	1,897	15	12	11
						K2WT	91,572	225	37	119	N4AA	*	715,003	951	84	223	*K4RKF	*	4,704	46	20	28	*K6TV	*	5,243	61	22	27
						*W1WP	107,975	237	48	127	W4WDP	*	408,508	534	76													

*WB8JUI	*	181,900	330	56	158	*NT0F	*	337,440	453	80	205	VE6FN	*	124,266	408	57	92	D44TD	14	2,570,282	4525	40	169	*RX9DJ	*	313,896	548	61	185												
*K9ESQ	*	149,720	285	51	146	K0GEO	*	286,273	454	60	108	VE6RC	*	72,828	411	36	48	(OP: IV3TAN)		296,568	546	53	163																		
AB8TO	*	137,340	244	58	160	K0HBH	*	220,780	337	78	188	VE6JY	3.7	9,570	78	19	36			290,988	491	56	180																		
*K8LY	*	124,950	294	44	126	AD0W	*	187,000	361	59	145	*VE6ZC	A	78,812	349	47	75	CEUTA & MELLILLA		283,657	546	64	177																		
*W8IDM	*	96,188	229	52	121	KC0DEB	*	155,040	295	59	145	*VE6TN	*	36,660	158	36	58	E9A9LZ	A	8,196,512	5654	123	413	RX9UQN	*	182,208	387	56	152												
*WA9HHB/8	*	84,320	239	42	113	K0VMV	*	124,808	278	53	130	*VE6GJ	21	23,805	167	21	48	*EA9OLR8	A	1,039,626	1455	60	199	RX9UWMD	*	182,208	387	56	152												
*W8OP	*	59,466	160	48	111	*WA2MINO/0	*	113,135	243	62	125	*VE6EX	14	27,956	1147	28	95	(OP: OK1FCJ)		177,837	370	46	141																		
*WB8GUS	*	49,178	186	41	93	*AA0AW	*	97,370	217	59	123																														
AB8OJ	*	49,049	145	42	90	N0LGU	*	96,330	212	64	131	VE7XO	A	115,257	315	47	105	*SU9NC	A	9,498,214	5601	129	460	RX9ER	*	151,424	367	38	131												
*K8TO	*	42,606	200	51	111	K0CIGY	*	91,392	242	60	108	VE7OD	*	79,200	284	60	105			136,525	260	61	154																		
*W8KNO	*	37,597	121	47	84	KB0ARZ	*	87,281	230	56	126	VE7AV	14	837,378	2225	37	125			134,055	939	28	107																		
*NF8M	*	35,868	123	43	79	WB0IEL	*	82,167	202	57	124	*VE7XF	A	903,222	1132	100	242			132,384	206	44	108																		
*W88TC	*	25,970	119	34	72	K0DAT	*	73,072	183	56	129	*VA7ST	*	34,656	164	37	59	ETHIOPIA																							
*AF8C	*	19,266	120	21	57	N0KK	*	70,855	155	61	124	*VA7LC	*	34,224	153	35	58	*ET3AA	21	41,080	239	13	52																		
*K8GT	*	18,000	87	31	59	K0OB	*	69,285	202	44	105	*VA7ALN	*	31,568	133	51	73	GAMBIA																							
*W8VE	*	12,031	78	29	55	*W9BNW/0	*	68,554	204	60	91	*VA7BS	*	21,450	144	36	42	*C56ACA	A	361,779	660	47	162																		
*W8SGZ	*	6,677	61	21	46	*WGM0	*	67,424	188	49	83	*VA7CAB	*	10,458	112	27	24	(OP: ON4ACA)																							
N0HC	*	6,050	48	21	34	*WOV0	*	50,148	160	50	76	*VA7IRL	*	2,070	50	13	10			12,096	126	19	44																		
*K8MHQ	*	4,257	45	14	29	K0ALT	*	45,195	169	44	71	*VA7MJR	*	756	19	13	14	GHANA																							
*KC8YKQ	*	2,088	26	14	22	WB0YJT	*	44,202	150	44	95	*VE7IN	21	196,740	999	28	62	*9G5JH	A	9,804	71	28	48	(OP: PA0CJH)																	
*KA8OAD	*	2,030	22	14	21	K2HTA/0	*	43,690	144	54	93																														
*W8TK	*	680	16	7	13	N0COI	*	41,625	166	42	83	Y1V1CQ	A	228,304	690	56	96	MADAGASCAR																							
*K8OZ	28	89,436	301	28	88	*WOCB8	*	37,403	129	42	71	*Y1V1MB	A	152,192	672	49	67	5R8FU	A	225,356	393	69	143																		
*K8IR	21	166,944	441	30	111	N0UVJ	*	36,625	119	43	82																														
*KF8KT	14	154,262	401	29	108	K0NE	*	28,830	142	27	66																														
*W8IO	*	1,540	22	10	18	*WQOS	*	18,308	99	37	55	*T13MAO	A	41,420	208	37	58	MADEIRA ISLANDS																							
*KC8UR	*	1,066	22	10	16	K0EX	*	17,787	86	35	42	*T13TEJ	A	139,000	400	33	92	MADEIRA ISLANDS																							
*K8DO	3.7	5,160	77	11	32	KB0NES	*	17,459	92	31	48	*T13TRJ	A	1,834,030	3946	110	344	COSTA RICA																							
W9RE	A	6,216,815	336	157	514	*N0BM	*	7,785	52	29	37	*C08LY	21	620,286	2180	29	105	DOMINICAN REPUBLIC																							
N0RV	*	6,175,344	336	123	233	*WB0TSR	*	6,240	49	25	32	*C06LPB	A	139,666	858	22	68	MADEIRA ISLANDS																							
N0UJ/9	*	1,036,308	908	115	223	*WB0TSD	*	5,670	42	22	32	*C02JD	7	113,587	597	19	78	*BB8MM	A	1,403,329	1422	92	257	MAURITIUS																	
W9OP	*	997,112	841	112	340	KC0SOG	*	2,160	35	18	22	*C08LY	21	620,286	2180	29	105	COSTA RICA																							
AB9H	*	605,988	673	98	274	*WOPSS	*	1,665	48	18	19	*H3TEJ	A	3,834,030	3946	110	344	DOMINICAN REPUBLIC																							
W9SE	*	353,600	494	72	200	*WOLE	*	828	16	11	12	*H3INR	A	1,517,292	2328	90	234	CN2R	A	20,938,680	8655	172	668	MOROCCO																	
W9YG	28	67,669	269	20	100	*WOWH	28	10,431	96	14	43	*H3INR	A	27,176	152	27	57	*CN8SG	A	406,952	842	47	135	CN2R																	
K2AAW/9	*	33,934	180	713	64	*WOWH	*	1,055,226	95	95	348	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
KOCA	21	77,364	264	30	94	*V29NR	21	386,640	1339	29	106	*H3INR	A	22,368	87	40	56	SOUTH AFRICA																							
W9EXY	14	143,514	413	38	115	*V29NR	21	386,640	1339	29	106	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
KOVP/P9	7	21,756	111	22	62	*V1M1P	*	1,021,756	905	100	149	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
KF9U	*	17,304	98	20	64	V0ITA	*	6,087,366	3881	117	469	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
N9EKG	*	14,924	204	38	116	*V0ITA	*	3,558,699	3324	90	333	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
*V01AU	A	7,143,551	4430	122	509	*V1M1P	*	1,021,756	905	100	149	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
*V01MP	*	6,087,366	3881	117	469	*V1M1P	*	1,021,756	905	100	149	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
*V01MP	*	6,087,366	3881	117	469	*V1M1P	*	1,021,756	905	100	149	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
*V01MP	*	6,087,366	3881	117	469	*V1M1P	*	1,021,756	905	100	149	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
*V01MP	*	6,087,366	3881	117	469	*V1M1P	*	1,021,756	905	100	149	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
*V01MP	*	6,087,366	3881	117	469	*V1M1P	*	1,021,756	905	100	149	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
*V01MP	*	6,087,366	3881	117	469	*V1M1P	*	1,021,756	905	100	149	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							
*V01MP	*	6,087,366	3881	117	469	*V1M1P	*	1,021,756	905	100	149	*H3INR	A	22,368	87	40	56	SIERRA LEONE																							

JH1AZO	28	157,263	703	30	59	JASPCO	A	53,789	196	49	100	UNG6N	14	309,600	872	33	117	9V1AL	21	220	11	5	5	OE3I	28	259,458	742	38	128					
JH1OCC	*	151,129	503	35	86	JASAPU	A	100,245	351	35	88	*UP6P	A	1,515,094	1493	113	321	(OP: UN4P)	TAIWAN	686,724	1565	78	189	*OE6MDF	A	343,970	592	81	214					
JJ1JHN	*	117,549	453	35	76	JA6BGA	28	207,807	268	33	79	*UN8GV	"	1,416,012	1682	86	262	*BN0F	A	686,724	1565	(OP: JJ1TBB)	*OE8OLK	A	52,681	267	38	101						
JE1COT	*	4,160	56	12	14	JM6BVY	A	1,655	33	14	8	*UN2E	"	360,360	521	76	210	*BU2AI	21	15,378	111	22	44	*OE5WWL	28	5,160	50	15	28					
JQ1NGT	21	106,776	449	30	84	*JA6EFT	28	44,355	247	28	57	*UN7PCZ	28	199,251	653	27	90	TAJIKISTAN					*OE8SKQ	21	233,496	787	31	110						
JE1LFX	14	274,065	718	37	114	*JH6FTJ	*	25,960	175	23	32	*UN7JX	14	237,258	693	39	108	EY8MM	14	1,065,546	2833	40	167	*OE7AJT	14	128,800	755	23	92					
JR1WVY	*	24,192	143	27	87	*JE6JWV	21	28,993	188	24	54	EY7AF	3,7	16,514	152	10	36	AZORES					*CU2JT	A	149,376	327	53	139						
JH1AEP	7	219,604	740	35	89	*J06XMM	*	10,602	95	19	38	*EY8BA	"	11,713	120	13	40	*CU2AF	28	199,760	1187	22	88	EY7AV	21	206,092	657	30	104					
JAIANA	*	3,034	25	14	20	*JA6BIF	*	9,576	84	21	35	HL5UOG	A	KOREA				BALEARIC ISLANDS					EA6LP	A	587,902	967	85	258						
JT0YNN	A	625,500	850	108	194	JG6TXU	*	4,270	68	17	35	HL3AMO	3,7	8,526	163	16	26	EA6TU	*	206,340	540	70	215	HL5KJR	A	78,520	405	64	87					
*7K30WM	*	434,280	731	88	149	JAT7NVE	A	2,794,697	2766	123	286	*HL5AP	"	39,266	178	44	71	EAGAFE	*	39,786	206	40	74	DS5DNO	*	4,545	59	20	25					
JH1UUT	*	263,600	544	71	129	JH7BZR	28	541,020	1484	37	105	HL2FDW	21	254,290	932	30	88	EAGAZ	14	194,304	937	32	100	HS0ZCG	A	86,310	229	73	137					
JG1TVK	*	244,261	434	89	184	JAT7WOD	*	139,308	568	30	64	HS0ZDR	21	73,416	289	32	92	EADTC	A	300,472	782	65	219	HS0ZEE	A	595,128	732	104	258					
*JG10WV	*	223,310	350	109	165	J07KMB	*	182,129	269	34	76	HSTPDY	"	157,620	350	63	122	E6/LY1DF	*	41,552	214	32	74	EX9A	A	7,270,560	4945	134	460					
JAI1GYO	*	215,845	348	82	163	JAT7COI	14	74,580	269	34	76	EZ8CW	A	32,573	159	37	69	EC6UB	*	1,320	30	14	26	HL2JH1FXF	14	15,000	196	22	38					
JAI1RKI	*	203,232	390	82	150	JIT7VY	*	60,375	230	37	68	UK BASES ON CYPRUS					EAE6EA	28	2,683	44	14	24	EX9A	A	32,573	159	37	69						
JAT1GL	*	182,129	402	82	141	*JA7BME	*	167,535	311	77	142	ZC4LI	A	144,160	707	18	67	BELARUS					EU4LY	A	403,440	1003	67	261	EX9A	A	32,573	159	37	69
JAT1TMG	*	167,700	390	62	110	*JA7DNO	*	1,655	101	25	45	EU1AD	*	264,729	779	50	187	EW2AA	*	38,870	142	42	88	EX9A	A	32,573	159	37	69					
JE1SLP	*	166,123	371	75	143	JIT7WPV	*	1,695	30	12	12	EU1TA	*	28,842	105	43	89	EW8MW	14	639,350	2018	40	150	EX9A	A	32,573	159	37	69					
JAI1XPV	*	109,005	267	67	102	*J7MTEPG	*	22,911	121	32	60	EW7LO	*	63,661	628	18	65	EW3EW	3,7	104,576	1156	15	71	EX9A	A	32,573	159	37	69					
JAI1ZJH	*	93,656	214	72	112	*JP1JIP/7	21	55,383	303	27	63	EU1PA	*	56,628	692	12	66	EU6EU	1,8	57,409	771	9	60	EX9A	A	32,573	159	37	69					
JAI1AIL	*	91,448	268	58	103	*JR7LKV	*	24,910	147	23	52	EW3LN	A	204,323	503	72	217	EW3LN	A	204,323	503	72	217	EX9A	A	32,573	159	37	69					
JAI1HFY	*	69,522	236	62	93	*J7ADAV	*	11,733	107	22	38	EW6MM	*	22,698	152	31	86	EW8RX	*	4,560	79	15	45	EX9A	A	32,573	159	37	69					
JAI1QDH	*	61,570	177	43	88	*JF7GDF	*	550	18	11	11	EU1ID	*	28,842	105	43	89	EU6AF	28	29,984	170	25	69	EX9A	A	32,573	159	37	69					
JAI1FNU	*	46,032	185	35	77						EU1JF	*	38,842	117	32	124	EW1ABF	*	16,348	173	13	48	EX9A	A	32,573	159	37	69						
JAI1XUY	*	44,892	153	50	66						EW6DX	*	5,390	59	15	34	EW1AC	*	4,368	48	13	26	EX9A	A	32,573	159	37	69						
JH1RDU	*	24,288	118	34	54						EW6EW	*	3,496	48	14	32	EW6EW	21	9,610	89	14	48	EX9A	A	32,573	159	37	69						
JAI1CP	*	21,012	111	38	64						EW6AF	14	230,520	1233	34	102	EW6AF	*	142,754	660	33	104	EX9A	A	32,573	159	37	69						
JAI1HG	*	18,105	114	34	51						EU2MM	*	142,754	660	33	104	EW6AL	*	41,705	334	21	74	EX9A	A	32,573	159	37	69						
JH1OLB	*	12,328	70	31	36						EW6GL	*	12,584	172	9	43	EW8DX	*	4,176	94	10	38	EX9A	A	32,573	159	37	69						
JK1LSE	*	11,786	81	36	47						EU2AA	*	513	13	9	10	BOSNIA-HERZEGOVINA					LZ1ABC	A	294,848	557	77	194	EX9A	A	32,573	159	37	69	
JH1RMH	*	11,124	80	29	32						LZ1AQ	*	176,436	465	68	193	LZ1BE	*	24,378	130	33	69	EX9A	A	32,573	159	37	69						
JR1MRG	*	10,388	80	24	29						LZ1RW	*	13,494	87	30	48	LZ1NG	28	644,736	1836	37	147	EX9A	A	32,573	159	37	69						
JAT1APX	*	8,142	56	28	31						LZ1RN	*	475,577	1485	35	138	LZ9X	*	475,577	1485	35	138	EX9A	A	32,573	159	37	69						
JAI1LBZ	*	5,336	53	22	24						LZ1TUK	*	164,969	1138	26	91	LZ9V	21	164,969	1138	26	91	EX9A	A	32,573	159	37	69						
JE1COB	*	3,500	35	18	17						LZ2M	*	88,856	459	26	90	LZ5Z	*	88,856	459	26	90	EX9A	A	32,573	159	37	69						
JE1PJR	*	2,825	45	16	12						LZ1H	*	127,690	705	30	83	LZ3DJ	*	88,856	459	26	90	EX9A	A	32,573	159	37	69						
JAI1PZ	*	2,416	23	5	3						LZ1GU	*	17,100	73	36	54	LZ2J2A	21	236,739	1057	33	108	EX9A	A	32,573	159	37	69						
JE1SPV	3.7	224,700	652	37	103						LZ3R	*	6,624	114	10	36	LZ7H	14	2,391	71	8	31	EX9A	A	32,573	159	37	69						
J1FDF	14	224,700	652	37	103						LZ4FC	7	68,208	533	18	80	LZ7Y	3.7	67,486	699	14	68	EX9A	A	32,573	159	37	69						
J7K1PTO	*	6,620	63	21	39						LZ9Y	*	164,969	1138	26	91	LZ9V	21	164,969	1138	26	91	EX9A	A	32,573	159	37	69						
JAI1KVT	7	27,300	140	26	58						LZ9W	*	88,856	459	26	90	LZ9W	*	88,856	459	26	90	EX9A	A	32,573	159	37	69						
JH1ATPZ	*	12,415	90	23	42						LZ9X	*	88,856	459	26	90	LZ9X	*	88,856	459	26	90	EX9A	A	32,573	159	37	69						
JE1SPV	3.7	1,406	848	36	96						LZ9Y	*	88,856	459	26	90	LZ9Y	*	88,856	459	26	90	EX9A	A	32,573	159	37	69						
J4Z2KKG	14	150,084	467	36	96						LZ9Z	*	88,856	459	26	90	LZ9Z	*	88,856	459	26	90	EX9A	A	32,573	159	37	69						
JF2WXS	7	3,828	48	15	29						LZ1H	*	127,690	705	30	83	LZ1H	*	127,690	705	30	83	EX9A	A	32,573	159	37	69						
JE2ZOMT	3.7	1,100	29	10	12						LZ1GU	*	17,100	73	36	54	LZ1GU	*	17,100	73	36	54	EX9A	A	32,573	159	37	69						
JS3CTQ	A	3,618,983	292	137	320	JH8DEH	21	60,683	334	26	59	MACAO	21	5,850	167	15	24	LZ1JN	28	373,430	705	59	155	EX9A	A	32,573	159	37	69					
JAI3USA	*	2,504,802	212	137	322	JABRUVU	*	52,355	239	29	72	UK9AA	21	10,000																				

*9AVV	*	25,460	352	12	55	*G4RHR	*	19,536	102	33	55	*RA6FOT	*	45,240	150	48	108	*F6FTB	*	774,962	1105	83	308	*DL8UAT	*	121,552	257	61	153		
*9AGX	*	10,725	164	12	43	*MV3EVO	*	16,705	97	15	50	*UA6AGK	*	37,675	123	48	89	*F2AR	*	432,692	784	65	249	*DL6DCD	*	121,338	373	54	135		
*9AU2U	3.7	53,742	651	14	64	*M3PH	*	16,107	155	20	53	*UA3AKI	*	28,044	232	26	88	*F4EIZ	*	398,009	692	78	269	*D6DZJ	*	120,432	347	52	141		
(*OP: 9A3ZA)					*MONBY	*	7,310	125	22	63	*RN3AQ	*	27,552	146	31	92	*F5PJO	*	329,643	588	71	190	*D3KJW	*	119,382	338	58	139			
*9A7ZZ	1.8	17,766	293	8	55	*G7VNN	*	7,303	60	22	45	*RK4HD	*	22,032	122	41	112	*F4CTJ	*	229,497	570	64	163	*DL3SCN	*	107,940	339	54	156		
*9A3RE	*	16,131	314	8	49	*M1MAJ	*	1,224	30	11	25	*RZ3DD	*	21,970	127	36	94	*F4DXX	*	209,842	493	57	182	*D2L2AL	*	106,284	295	55	149		
CZECH REPUBLIC					*2E0BJM	*	768	30	12	20	*UA3ABF	*	18,916	22	66		*F6BAT	*	157,358	436	50	152	*DM2BPG	*	102,818	337	48	154			
OK1AVY					*G1UCZ	*	546	19	11	15	*RV3EDZ	*	17,015	80	31	52	*F4AYI	*	145,801	428	56	155	*DM2SR	*	102,794	289	57	149			
OK1EP	A	1,644,019	1567	118	441	*G1VDP	28	30,240	178	18	52	*RV1CB	*	13,356	116	28	78	*F1FNQ	*	135,050	350	47	138	*DK8AX	*	100,590	253	56	154		
OK2PBW	*	1,330,133	1520	107	404	*M0AQM	*	26,049	201	14	43	*RD3AN	*	11,865	79	33	72	*F1PPL	*	131,988	387	49	155	*D6JUP	*	92,232	266	53	130		
OK2ABU	*	496,110	787	82	259	*2E0VPE	*	25,842	163	20	53	*RA6FNG	*	10,591	66	33	56	*F6DZD	*	129,600	353	51	141	*D7KAN	*	86,699	272	52	129		
OK2PCL	*	356,625	738	72	245	*G3NXT	*	10,965	117	17	34	*UA3OQ	*	8,066	98	19	55	*F8EEO	*	126,558	345	68	169	*DL2RTC	*	84,822	288	49	152		
OK2FB	*	279,296	441	78	178	*G3PJY	21	147,874	849	26	81	*RN1AO	*	7,564	68	19	42	*F5DRD	*	107,070	313	42	124	*DH8WE	*	82,765	356	46	130		
OK1MKI	*	243,087	583	60	208	*G0LZL	*	112,256	436	29	99	*RX4NH	*	7,410	47	23	42	*F6DFN	*	101,748	362	46	137	*DL8UGF	*	78,854	268	52	126		
OK1FRO	*	54,559	187	61	128	*G3KMO	*	73,236	374	22	80	*UA6ART	*	6,480	114	18	54	*F8DXN	*	95,545	385	48	149	*D6JOL	*	73,947	291	44	113		
OK2WYK	*	9,021	118	25	68	*M0EYB	14	13,098	166	14	45	*UA1ACY	*	5,796	93	13	50	*F5PVJ	*	78,520	348	36	115	*D9YDH	*	71,243	302	52	139		
OK1RI	21	1,369,717	3068	40	159	*M0MOCX	7	17,940	375	11	49	*ES1ABJ	*	17,129	292	53	111	*F1W1H	*	5,546	111	23	71	*D1L1KT	*	70,555	294	37	100		
OK1TAX	*	200,620	727	32	108	*M1MKC	*	9,112	108	14	53	ESTONIA																			
OK1XC	*	91,635	367	28	95	ESTONIA																				(*OP: 1K1TNM)		(*OP: 2K2TM)			
OK5H	3.7	103,796	1351	13	64	ESTONIA																				(*OP: 1K1TNM)		(*OP: 2K2TM)			
OK1DX	1.8	95,408	1054	12	77	*ES1TV	A	6,065,520	4179	175	621	*RA3ABJ	28	117,292	583	31	111	*F1W1H	*	5,546	111	23	71	*D1L1KT	*	70,555	294	37	100		
*OL6P	A	1,044,000	1288	102	348	*ES2DJ	1.8	23,374	406	8	50	*RA3ABJ	28	117,292	583	31	111	*F1W1H	*	5,546	111	23	71	(*OP: DL8AKI)	*	57,564	231	47	109		
*OK1DOL	*	822,549	994	107	376	*ES6KW	A	141,834	421	58	173	*UA6HON	*	92,092	392	34	109	*F6CZV	*	4,620	52	14	30	(*OP: DL8AKI)	*	57,564	231	47	109		
*OK2TCW	*	697,225	93	87	298	*ESSRM	*	105,567	310	55	176	*UA6LCN	*	77,584	498	30	74	*F4BHW	28	379,463	1035	34	117	*DL500	*	56,763	252	38	115		
*OK2MBP	*	638,206	1201	75	287	*ES6MRM	*	36,141	250	31	115	*UA6ADC	*	55,485	198	33	104	*F4BKV	*	129,129	462	34	95	*DL2FC	*	53,940	275	33	112		
*OK1VBA	*	569,925	768	89	291	*ES6CO	28	23,742	153	26	76	*RA1JWV	*	12,024	44	6	18	*F5TMJ	*	74,102	244	126	41	*DL3DBY	*	48,361	207	37	100		
*OK1TC	*	492,200	974	75	290	*ESSCX	21	4,520	103	9	31	*RA1EL	*	26,136	155	22	66	*F8AAN	*	28,500	223	29	86	*DL1RTL	*	44,850	194	41	97		
*OK2BMT	*	460,638	581	85	245	*ESTGM	7	27,342	414	17	76	*RA1EUF	*	14,950	177	19	56	*F1E1T	*	21,511	163	19	53	*D3JGE	*	43,623	197	38	93		
*OK1DKR	*	378,510	590	81	260	*ES8DH	*	12,726	174	12	51	*RA2R3	*	13,774	118	20	51	*F5JYJ	21	190,847	715	32	107	*DH3FAW	*	41,789	206	35	96		
*OK2BXE	*	292,334	703	74	240	*ES3VI	3.7	6,942	173	5	34	*RA4NCC	*	8,802	103	12	42	*F8AKS	3.7	30,756	413	11	55	(*OP: DL8AKI)	*	36,309	167	37	96		
*OK2BXU	*	290,160	703	73	239	EUROPEAN RUSSIA																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK1TRM	*	247,904	551	63	191	EUROPEAN RUSSIA																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK2BN	*	227,298	601	60	198	EUROPEAN RUSSIA																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK1AY	*	218,694	547	61	185	EUROPEAN RUSSIA																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK1SMU	*	200,502	539	56	181	EUROPEAN RUSSIA																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK2BRX	*	104,006	395	37	124	EUROPEAN RUSSIA																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK1HV	*	64,386	330	26	121	EUROPEAN RUSSIA																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK2PBG	*	64,020	222	44	106	EUROPEAN RUSSIA																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OL6T	7	67,608	520	18	90	EUROPEAN RUSSIA																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK2BH	28	108,920	333	33	107	EUROPEAN TURKEY																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK1KDT	14	153,966	691	31	103	EUROPEAN TURKEY																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK1GI	*	99,320	470	28	102	EUROPEAN TURKEY																					(*OP: 1K1TNM)		(*OP: 2K2TM)		
*OK1TP	*	34,082	312	2																											

*HA5OAF	*	131,636	472	58	120	IK2YGY	*	44,460	361	19	71	*PC0H	*	42,229	200	38	83	*SP8ONB	*	29,040	199	29	103	Y07BGA	*	146,448	491	55	171
*HA3LI	*	124,775	237	69	148	*I8OCA	*	41,184	218	24	80	*PE1POS	*	30,450	176	28	77	*SP1IO	*	26,445	162	37	86	Y03CVG	*	12,393	97	25	56
*HA3OU	*	90,801	291	34	116	*I8EPY	*	23,688	211	19	75	*PB7LY	*	23,312	179	27	67	*SD9DXN	*	26,378	141	36	85	Y06BHN	28	96,348	268	34	114
*HA8FW	*	24,310	430	9	56	*IV3BSE	*	11,814	201	16	50	*PA0ADP	*	21,301	139	38	81	*SP2FLO	*	23,836	121	26	75	Y3PA	14	96,705	287	40	165
*HA2MN/5	*	14,616	129	24	63	*IK4CBM	*	2,067	45	8	28	*PE8ROB	*	16,356	151	21	66	*SP4DDS	*	23,124	199	32	91	(OP: Y03GDA)					
*HA2VR/5	*	7,242	89	23	48	*IU1A	7	27,835	287	19	76	*PI4NYM	*	13,020	139	28	65	*SP9LAS	*	20,880	111	31	59	Y03CTK	*	499,500	193	39	146
(*: HA2VR/5)						(*: HA2VR/5)					*PA3HGF	*	9,455	80	23	38	*SP6TRH	*	20,768	121	31	57	YR2I	7	212,487	1131	28	113	
*HA5OAA	*	1,827	55	26	37	*II3L	*	26,712	557	13	59	*PE2KP	*	6,118	72	20	26	*SP9CLO	*	20,223	134	38	81	(OP: Y02DFA)					
HG3M	21	510,523	1624	37	136	(: HA3MY)					*PE3HCD	*	6,050	76	17	38	*SP7FDW	*	20,196	132	33	75	Y02RR	1.8	14,484	286	7	44	
*HA0HV	*	134,904	476	34	112	*IK3SSJ	3.7	19,470	332	8	51	(*: IV3KAS)					*SP9IBJ	*	19,734	206	16	62	Y03CZ	A	596,979	1283	75	264	
*HA6IGM	*	33,110	210	20	66	JERSEY					*PE2GER	*	5,184	66	20	44			19,608	118	27	59	*Y07ARY	"	391,904	863	72	224	
*HA6IAM	7	24,645	292	16	77	*GJ7DNI	A	46,671	169	43	98			2,288	31	17	27	*SP2MKI	*	19,159	152	37	82	*Y05OED		285,186	768	62	236
TF4CW	14	428,259	1920	34	105	ICELAND					*PA3GVI	*	900	35	7	13	*SP9DXT	*	18,225	118	27	54	*Y03XL		114,802	362	64	175	
*TF3AM	A	15,876	149	19	65	UA2CZ	A	324,291	692	71	246	*PA4EM	*	850	21	10	55	*SP9AOR	*	18,130	187	19	79	*Y06ADW		90,210	316	44	142
						*RK2FXG	14	22,995	261	12	51	*PA0MR	3.7	13,878	219	8	46	*SP9DEM	*	17,384	97	29	53	*Y07LGI		77,616	299	43	125
											NORTHERN IRELAND					*SP9QJLJ	*	15,088	139	22	60	*Y05DAS		71,318	267	45	124		
											YL6W	A	2,530,412	2511	143	509	*SP9PLK	*	13,832	163	30	61	*Y08MI		67,046	338	47	133	
EI4DW	A	672,384	946	74	235	YI2LW	A	2,503,412	2511	143	509	(OP: YI2LG)					*SP9PKL	*	12,089	109	27	50	*Y05BWI		65,833	299	42	125	
*E16FE	A	123,032	375	41	141	YI2CI	*	733,320	1477	71	307	YI2L2I	*	192,300	478	68	232	YI2PA	*	12,028	106	30	94	*Y07LFV		65,400	318	40	110
*E17CC	*	76,736	297	41	135	YI2L2P	*	192,300	478	68	232	YI2L2Q	14	22,356	375	14	40	YI2L2W	*	11,466	65	35	63	*Y03RZ		61,506	189	50	84
*E15FOB	*	54,252	232	36	101	YI2L2P	*	192,300	478	68	232	YI2L2P	*	192,300	478	68	232	YI2L2Q	*	10,872	63	27	45	*Y04ZL		51,678	277	41	121
*E17JK	*	8,802	82	23	55	YI2L2P	*	192,300	478	68	232	YI2L2P	*	192,300	478	68	232	YI2L2Q	*	10,773	98	21	60	*Y09BKE		38,324	182	41	93
E12VNO	21	148,810	818	22	93	(: NN5O)					YI2L2P	*	670,776	956	98	358	(*: YI2LG)		10,412	124	18	58	*Y03FYS		29,375	166	39	86	
(*: E12VNO)						YI2L2P	*	234,910	537	67	211	YI2L2P	*	14,600	99	34	66	YI2L2P	*	7,566	50	29	49	*Y04GNJ		28,426	180	34	88
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	13,664	140	14	47	YI2L2P	*	7,360	53	31	49	*Y08FBF		24,910	163	37	70
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	5,690	97	13	39	YI2L2P	*	7,315	100	20	57	*Y08MF		24,816	141	30	83
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	5,690	97	13	39	YI2L2P	*	5,858	52	24	34	*Y08GF		22,698	106	45	85
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	5,690	97	13	39	YI2L2P	*	5,529	54	19	38	*Y05BRE		10,703	88	23	54
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	4,836	37	26	36	YI2L2P	*	8,232	68	24	54	*Y07LTO		9,360	115	24	48
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	4,753	37	20	29	YI2L2P	*	8,080	7	21	37	*Y08OT		8,232	68	24	54
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	(OP: SP1MWH)				YI2L2P	*	7,747	95	20	41	*Y09JIM					
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y05KAU		7,112	131	8	57
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y07LYM		5,487	87	21	38
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y02LZP	28	209,710	677	35	99
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y03ALI	21	28,466	207	22	64
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y04ATW		98,084	454	29	84
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y05PCY		34,503	197	24	62
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y07HIB		5,586	123	10	39
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y09YFP		4,500	91	8	37
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y07AWZ		2,952	77	9	32
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y02LGW	7	4,048	103	7	39
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y03GSM		342	7	15	35
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	*Y07HHI		816	46	4	20
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	SARDINIA					
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	SCOTLAND					
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	GM7TV	A	5,948,712	4288	146	550
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	(OP: GM4YX)					
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	MM1DHU	*	381,996	746	65	178
(*: E12VNO)						YI2L2P	*	406,500	138	56	113	YI2L2P	*	6,177	228	38	93	YI2L2P	*	6,177	42	17	22	MM2	*	347,952	789	63	201
(*: E12VNO)																													

KAZAKHSTAN																							
YV4DDK	14	178,020	506	32	97	YU1LM	"	49,640	353	22	63	N2KPB	"	258,876	482	75	249	WA1PMA/7	"	32,841	102	48	75
4M5DK	7	304,494	1313	25	89	7N4WPY	"	44,946	194	32	67	KM20	"	251,685	375	68	187	WG7Y	"	20,544	86	47	60
						EC8AU	"	40,296	196	22	68	AA2GF	"	250,749	444	66	185	W4Z/E7	"	11,730	68	17	52
JY5LMW	3.7	80,238	397	18	68	JR1NK	"	39,825	223	23	52	N2CK	"	244,458	381	70	173	N7J	"	504	10	9	9
YV2IF	1.8	2,586	38	8	25	E450N	"	21,996	176	17	61	K2SX	"	210,740	388	60	197	W7TV	"	143,792	356	34	118
*4M5T	A	895,404	1047	86	246	V4/EW1AR	"	15,708	117	14	37	WF2B	"	115,440	243	48	147	KC3MR/8	A	1,959,951	1298	128	469
						(OP: YV5BJ)	"					N8BI	"	895,390	760	101	305	UN4PG	28	62,316	270	29	79
*YY5JRU	"	138,757	531	40	69	OK1AJ	"	14,750	154	16	43	K300	A	6,651,964	3205	163	585	TAJIKISTAN					
*YY5AFQ	"	20,592	133	28	71	RA3XEV	"	6,264	111	8	28	K3VV	"	5,850,670	3014	155	587	Y8CQ	A	13,440	65	44	61
*YY5AGT	"	7,500	70	20	40	K2PAL	"	3,808	45	6	26	AA3B	"	3,329,480	1858	133	511	Y8AW	"	13,216	195	24	32
*YY4YC	28	106,978	642	25	64	7K1CP	"	3,104	42	14	18	NN3O	"	3,102,362	1900	128	473	EY8DQ	"	8,326	112	19	27
*YY5RED	"	63,126	637	18	24	SP6GNJ	"	2,442	33	12	21	W3FV	"	2,548,110	1673	117	424	EY8WW	28	28,800	242	14	34
*YY5PER	21	109,710	418	24	82	JK1TCV	"	2,346	36	10	13	K3MD	"	2,515,371	1812	119	408	TAI					
*YY5MA	"	102,312	618	23	64	T1S/WQZA	"	1,456	20	7	19	N3ZA	"	2,218,010	1374	127	459	ALAND ISLANDS					
*YY5KG	14	655,796	1962	29	105	T1S5	14	97,208	366	28	88	N3AM	"	1,984,388	1326	121	420	EUROPE					
*YY5TX	"	274,100	1013	25	25	(OP: NOKE)	"					W3GM	"	1,968,124	1283	121	441	AL					
						SP5PDJ	"	81,008	424	28	94	W8ZQ	A	4,018,652	2088	163	559	THAILAND					
P40A	A	4,707,598	3817	110	324	(OP: K9KA)	"	42,630	339	18	69	W3CF	"	1,949,634	1461	113	421	HS10VH	A	1,299,196	1677	129	445
F5BEG	"	906,796	1146	88	319	CO8TW	"	30,074	125	34	81	K1R/3	"	1,309,575	1019	102	373	Y8CQ	A	9,063,492	5118	164	640
N4KG	"	821,601	801	93	294	I2IDG	"	29,120	178	16	62	W3IO	"	1,231,004	1078	94	327	Y8AW	"	13,440	65	44	61
LY4XX	"	804,174	991	101	366	N9ME/4	"	17,160	230	12	54	W2UP/3	"	1,215,050	925	110	365	EY8DQ	A	16,275	86	45	60
KA1LMLR	"	752,400	807	96	304	W6JY	"	14,136	90	22	40	K3JP	"	990,613	902	88	333	EY8WW	28	28,800	242	14	34
DF1DX	"	627,644	935	72	274	I2BEWD	"	13,910	181	11	54	K3CP	"	990,450	821	99	366	TAJIKISTAN					
EA8TX	"	955,680	953	59	181	LA8WVG	"	11,429	185	10	46	W9GE/3	"	976,299	864	95	326	AL					
SK3W	"	502,320	827	79	285	I2D4YP	"	6,213	102	12	45	W09K	"	1,265,000	847	104	341	ON4UN	A	2,902,592	2555	102	332
						(OP: SM5CCT)	"	5,856	110	11	37	W3EA	"	901,700	995	76	279	ON4CAS	"	5,604,604	206	72	234
K01H	"	492,690	599	84	246	W5WZ	"	2,400	30	13	19	N3II	"	724,672	644	109	307	ON4APU	14	100,584	423	30	102
UA3BL	"	422,784	879	78	306	Y02CJX	"	1,161	46	6	21	W3BG	"	631,680	610	86	290	KV0Q	A	2,968,400	1711	171	485
JR4DAH	"	360,144	600	88	158	K4PK4	7	119,520	624	20	76	N3KN	"	496,800	528	74	271	K0KX	A	2,728,736	1572	154	480
N1TM	"	348,300	477	61	209	S53D	"	78,430	494	23	92	W3UO	"	352,485	454	83	232	T960	28	755,787	1850	39	152
UA9SG	"	336,380	565	72	206	W3V	"	40,506	190	17	69	K3ATO	"	202,768	346	60	172	(OP: K9KA)					
N8IE	"	312,420	487	60	194	T1S5	"	16,575	166	15	60	(OP: W8OZA)	"	147,534	291	54	147	(OP: T1H1A)					
S59D	"	305,502	665	88	274	W3V	"	4,294	127	5	33	N3GW	"	143,583	259	68	161	K10F	A	519,415	808	77	228
DF3AX	"	294,680	598	65	200	YU1AAV	"	4,294	127	5	33	N3EH	"	110,250	224	53	157	9A4KW	21	1,258,863	2775	40	161
EA1GT	"	288,672	567	68	182	W3V	"	4,294	127	5	33	K3AU	"	90,100	191	38	132	9A5Y					
WA0BVW	"	281,316	457	64	174	K3TW/4	"	5,160	51	10	33	K3BMM	"	86,994	181	50	129	K0MPH					
KR1ST74	"	277,290	439	58	178	V4/6MA	"	4,797	68	14	25	N3HUV	"	51,623	150	44	99	K0OB					
JH7RTQ	"	272,244	538	61	135	UN7CN	"	3,510	60	8	19	KB3MM	"	996,398	775	110	384	K0KX					
IK5RUN	"	250,572	382	87	227	SP9BMH	"	1,643	54	4	27	W3ZL	"	147,534	291	54	147	K10U					
RN6AL	"	239,882	613	59	219	YU1AAV	"	1,240	47	4	27	N3HVS	"	143,583	259	68	161	W0RDK					
SV1DZB	"	233,496	550	208	206	D8LWCR	"	525	23	8	17	K3FEE	"	22,752	101	18	61	9A4KW	A	519,415	808	77	228
DH8BOA	"	229,060	492	59	201	T1K2AC	"	49	5	2	5	K3AGR	"	20,651	80	38	69	9A5Y					
K8ZT	"	223,584	348	71	201	YU1AFP	3.7	23,100	549	11	49	WR3L	"	11,914	60	22	52	9A2VR	14	322,920	1176	36	120
RW3AI	"	222,271	605	59	222	ES8SW	"	4,750	132	7	31	W3NGO	"	55,860	246	23	82	CZECH REPUBLIC					
OK1ES	"	185,977	410	81	238	F8CED	"	4,294	127	5	33	K3V5	3.7	5,880	68	11	31	ENGLAND					
OH4HFA	"	171,488	496	54	179	SQ2DYF	"	4,200	120	12	45	W3NT	"	100,330	312	31	96	ALASKA					
EA3FF	"	162,328	369	66	140	G4CWVH	"	1,711	64	4	25	N3NT	"	5,880	68	11	31	OK2ZC					
7S3J	"	154,100	534	51	179	U3AT3T	"	1,166	48	6	16	W4MYA	A	3,858,064	2093	195	547	OK2EQ	28	78,588	296	27	91
						T1W1	"	902	23	7	15	W4WW	"	2,724,764	1435	158	569	OK2ZJ					
RNOCT	"	120,564	318	66	131	K1G	A	5,710,042	2734	161	593	W3GNO	"	1,204,760	1167	100	384	CANADA					
N7IR	"	106,212	259	56	103	M5ADF	"	816	36	4	20	W3O/4	"	2,024,460	1370	119	421	W3O/4					
UR8IDX	"	87,106	337	46	148	LY5A	1.8	23,659	408	8	51	W3A/4	"	1,443,039	1166	105	384	W3A/4					
SP5FKW	"	83,231	294	55	163	K1G/ND	"	1,350,000	1923	130	495	W3K/ND	"	1,392,202	1024	113	441	W3K/ND					
LY2FE	"	75,952	290	42	146	OK2BUZ	"	6,348	149	6	40	W4LC	"	1,254,729	1007	102	345	W3K/ND					
PV3YD	"	67,600	264	36	164	VE3MGY	"	1,296	128	3	3	W3M/4	"	1,202,175	1098	91	320	W3M/4					
SV1NK	"	62,205	279	42	123	OH7FF	"	792	53	12	47	W3Y/4	"	122,171	233	56	161	W3Y/4					
Y04AAC	"	61,571	318	35	117	T1SA	"	1,088,127	685	19	44	K4OAR	28	7,034	181	76	374	W3PWC	28	1,362,978	3125	159	592
KI0V	"	59,563	181	49	78	K1KIH	"	2,054,387	1320	118	44	K4OAR	"	106,470	267	66	129	FINLAND					
ON7CC	"	57,232	201	45	122	K1M	"	1,023,252	862	93	33	N4H	"	78,796	173	55	127	AFRICA					
PA1UBT	"	50,125	112	23	58	K1M	"	66,930	181	44	94	N4H	"	77,055	173	55	111	AFRICAN ITALY	21	192,692	530	29	105
PA0FAW	"	47,722	40	12	29	K1MZ	"	93,342	245	34	107	N5MV	"	1,113,702	95								

NJ4M	3,284,388	2173	132	426	OT4L	BELGIUM	8,962,336	5528	167	641	VK4CZ	OCEANIA	AUSTRALIA	JA3YBK	11,494,089	6001	173	574	IR9U	5,824,350	4348	154	620											
AA5NT	3,403,260	2334	147	483		CROATIA	15,148,830	8653	174	720		SOUTH AMERICA	BRAZIL	JAS5JC	10,640,479	5849	168	533	E5KKB	8,067,480	6890	144	546											
W6YX	3,638,358	2416	158	449	9A7A	DENMARK	5,544,303	3752	159	630	PS2T	16,926,789	8741	160	591	JAY7RR	7,231,672	5067	161	423	ED1EA	1,502,721	1847	98	375									
NK7U	5,742,664	3446	166	517	OZ5E	ENGLAND	3,323,902	2475	134	528	PX2A	8,279,125	5617	122	413	JE1ZWT	4,223,587	3268	147	394														
W7GG	2,907,310	2176	155	419		ESTONIA	8,768,672	6032	175	684	PY2TEL	18,204,304	777	40	104	JAY2BG	2,905	40	13	23	SK6D	1,034,450	1596	87	338									
K9IU	129,778	330	52	135	G4UJS	FRANCE	1,813,893	3062	91	306	PJ2T	24,139,776	11271	166	602	UP5G	13,888,688	7950	160	592														
KT8R	1,457,280	1035	140	436	N0UNL	GERMANY	11,016,978	7144	187	735		NETHERLANDS ANTILLES																						
	69,388	222	54	112	ES6Q	HUNGARY	12,364,088	7408	174	698		MULTI-OPERATOR																						
KL7CQ	1,581,136	2682	90	182	RU1A	ITALY	6,357,215	5233	156	595		MULTI-TRANSMITTER																						
VP2E	40,907,104	16868	188	804	TM7Z	ITALY	19,574,100	8256	186	770		NORTH AMERICA	UNITED STATES	OT4A	17,086,281	10724	179	708																
						GERMANY	8,385,520	4861	174	706		EUROPE	BELGIUM																					
VE1JF	7,568,209	4915	139	532	VE3XD	GERMANY	15,075,228	6496	186	725	W3LPL	19,473,602	8151	192	761	KC1XX	14,002,960	9420	175	729														
VE6FI	3,982,230	2777	133	469	VE2JKFMQ	GERMANY	2,470,593	2299	129	450	K1TTT	12,635,727	5711	170	673	NO4I	12,122,019	6178	176	685	9A1A	21,947,520	12829	193	767									
VE2JKFMQ	3,700,518	4040	126	348	VE3DC	HUNGARY	3,653,412	2099	166	428	KTRX	10,720,608	5328	162	654	NB1B	9,589,860	4396	168	658	OK7K	3,159,310	3142	129	476									
VE7SCC	1,384,650	1997	94	268		HUNGARY	1,185,720	648	166	369	KB1H	9,310,106	4670	168	638	N3AD	7,920,016	4170	158	596	OL9S	514,088	1067	79	279									
VE10M	1,079,466	1696	98	225		HUNGARY	7,183,360	3737	154	582	W2A/X1	7,183,360	3737	154	582	K3II	4,111,208	2630	133	463														
T18M	5,189,842	5548	126	340		ITALY	4,010,013	2712	165	544	W0A1H9	3,914,193	2792	152	439	W0A1H9	18,678,975	11064	192	795														
						ITALY	18,385,620	8626	185	754	K7ZSD	3,914,193	2792	152	439	DF0HQ	17,619,740	10211	183	725														
NP3U/KP4	9,432,280	7671	135	437		NORWAY	3,805,202	2173	153	541	W6ZTA	3,653,412	2099	166	428	K6IDX	3,413,916	3142	179	556	DL0KC	1,127,952	1239	103	401									
WP2Z	U.S. VIRGIN ISLANDS	13,718,642	9368	152	506	LA1K	484,075	1224	69	266	WX3B	1,185,720	648	166	369	KK1L	900,800	884	98	302	DL3ABL	1,127,952	1239	103	401									
						POLAND	2,657,990	2734	133	522						SN5Z	MD4K	15,486,066	12083	166	711													
CT9L	AFRICA	MADEIRA ISLANDS	21,153,918	9596	153	620	CT8T	12,530,845	8397	170	665	V26B	20,472,856	12463	161	577	V26B	20,472,856	12463	161	577	IO2VA	8,073	88	22	47								
						PORTUGAL	5,093,296	3666	135	476	VA2TG	604,422	993	70	203	VE3YAA	5,093,296	3666	135	476	HB0/HB9AON	6,719,360	6090	124	516									
						SCOTLAND	1,809,750	2565	102	373						GM2T	KP4JRS	244,288	604	53	123	LIECHTENSTEIN	7,129,300	1020	124	516								
						SLOVENIA	7,087,041	5053	164	629						SI5ZW	PI4D	4,802,567	4514	134	509	LIECHTENSTEIN	7,129,300	1020	124	516								
						SPAIN	1,118,010	1738	88	327	V47KP	9,613,460	7558	133	457	FP/VE7SV	26,094,185	14212	155	630	PI4ZI	2,190,433	2460	115	438									
						SWEDEN	1,028,588	2078	82	306						SJ9AM	ST. PIERRE & MIQUELON	244,288	604	53	123	LY7A	9,566,691	7258	168	689								
JA1KQX	JAPAN	ASIANIC RUSSIA	11,339,373	5453	162	661	EA1CW	1,318,473	1651	119	412	TPK7C	ST. KITTS & NEVIS	9,613,460	7558	133	457	TPK7C	PI4D	4,802,567	4514	134	509	LITHUANIA	9,566,691	7258	168	689						
						Ukraine	12,547,262	8843	188	735	VP5T	1,976,859	2876	90	257	TPK7C	ST. PIERRE & MIQUELON	244,288	604	53	123	LN7G	386,393	961	63	226								
						SWITZERLAND	5,363,926	4906	145	549	EA8ZS	44,388,630	15686	188	802	TPK7C	ST. PIERRE & MIQUELON	244,288	604	53	123	SP9KDA	1,194,966	1599	99	395								
						YUGOSLAVIA	7,690,870	6406	154	541	RK0AZC	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	NORWAY	11,072,775	8347	161	644					
OE5T	EUROPE	AUSTRIA	5,843,656	4891	145	583	UU7J	1,318,473	1651	119	412	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SCOTLAND	11,072,775	8347	161	644				
CU2Z	AZORES	EUROPE	6,822,015	5837	103	362	USQ0	1,318,473	1651	119	412	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SARDINIA	258,662	581	66	217				
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SCOTLAND	11,072,775	8347	161	644					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SARDINIA	258,662	581	66	217					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SCOTLAND	11,072,775	8347	161	644					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SARDINIA	258,662	581	66	217					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SCOTLAND	11,072,775	8347	161	644					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SARDINIA	258,662	581	66	217					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SCOTLAND	11,072,775	8347	161	644					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SARDINIA	258,662	581	66	217					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SCOTLAND	11,072,775	8347	161	644					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SARDINIA	258,662	581	66	217					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SCOTLAND	11,072,775	8347	161	644					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SARDINIA	258,662	581	66	217					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SCOTLAND	11,072,775	8347	161	644					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SARDINIA	258,662	581	66	217					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151	119	362	SCOTLAND	11,072,775	8347	161	644					
						YUGOSLAVIA	7,690,870	6406	154	541	TPK7C	ASIA	ASIANIC RUSSIA	1,119,768	1151																			

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