

Results of the 1999 CQ WW DX SSB Contest

BY BOB COX,* K3EST

With solar conditions at a peak, contestants young and not so young from all over the world turned on their rigs. What did they find? *Ultima Thule*. Those words are the best way of describing the 1999 WW DX SSB Contest. Conditions were something beyond expectations. In 1998 the main band was 15 meters; in 1999 it was all the bands. If you listened on 10 meters, you found the band wall to wall with contestants from below 28.3 to above 29.2 MHz. It was a full megahertz of guys and gals having the time of their lives. With the solar flux hovering between 169 and 180, records fell across the board.

After months of planning, building, and practicing, thousands of contestants took full advantage of the smiling ionosphere. The number of logs received was 4025, the highest total for any CQ WW Contest in history. It was an increase of 500 logs over the prior year's record-breaking total. Reported here are the final results of the world's largest radio event. Read on to see how you and your friends ended up. Everyone who operated the CQ WW last year was a winner.

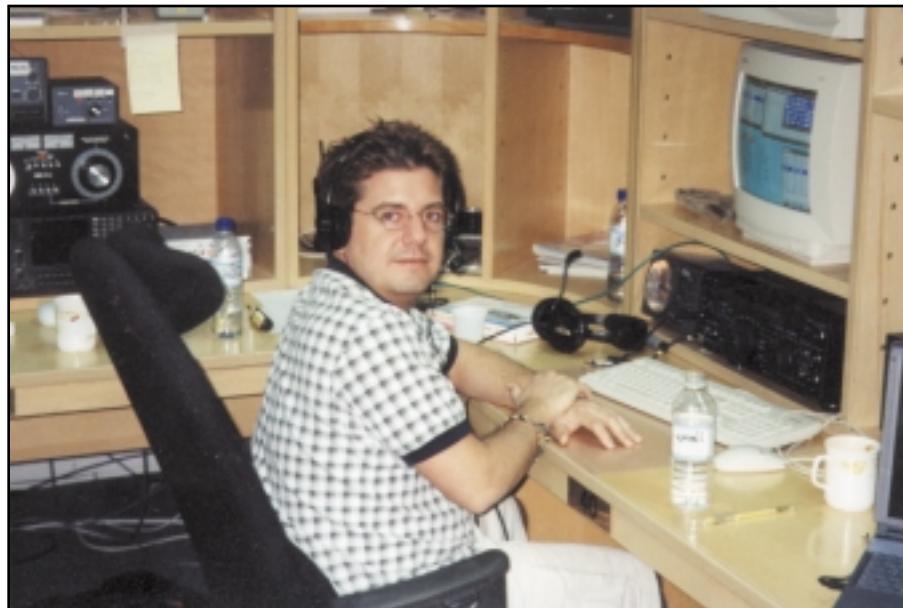
High Power

I suppose you could say, "Wow!" That, however, would be an understatement. What Jeff, N5TJ, accomplished at EA8BH was contesting history. He broke the most coveted record in contesting by almost 10 million points. He is the first to make over 10K QSOs in any single operator category in the CQ WW. He had the highest multiplier total ever of any single-op. Place a great operator in an ideal QTH with great conditions and a new record is a strong possibility. Jeff's expectations were to try for 18 million or so points, but the QSOs just kept coming.

A continent away on the Galapagos Islands, Rich, N6KT, who has won the contest a half-dozen times, talked HC8A past the old world record only to find that he had secured second place. Third place in the world went to José, CT1BOH, operating at P40E. All three operators exemplify the ideal competitor—motivated, completely alert, and a careful planner.

Not to be outdone, Robert, GI0KOW, put his station and QTH to good use by shattering the old European single operator record by 3.1 million points! That's not an easy task, considering the European record has edged upward very slowly. A jump of such large magnitude is truly unique. The battle for second place was very close. Not far to the east of Northern Ireland can be found Steve, GW4BLE, who pushed his station to new heights and claimed second place in Europe. Farther north, Jukka, OH2MAM, took the ferry over to OH0Z and wound up with third-place honors.

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Frank, DL2CC, set a new Asian record from A61AJ.

In the USA, John, K1AR, once again demonstrated why he is a great operator. John put the K1EA station through its paces to win the top USA spot. Conditions were so good that he felt as if he was in the Caribbean. Dave, NT1N, a sort of newcomer to New England radio life, found out why they call W1-land the anti-black-

hole. Dave took the second-place position. Down in Washington, D.C., Fred, K3ZO, had one of his best finishes, coming in at number three in the USA.

The Top 10 World box has six continents represented. Take a close look at the outstanding efforts of 8P1A (W2SC), 3V8BB



JN1YUU—all ops are age 10 to 13 JA YLs!

TROPHY WINNERS AND DONORS SSB

SINGLE OPERATOR	World – 7 MHz	Carib./C.A.
World All Band EA8BH (Opr. Jeffrey Steinman, N5TJ) Donor: Dave Rosen, K2GM – WA2RAU Memorial	P40R (Opr. Bob Alphin, K4UEE) Donor: Fred Laun, K3ZO – K7ZZ Memorial	VP5R (Oprs: N0AT, N0KK, N5QQ, W5WW) Donor: Eric Scace, K3NA
World Low Power Pedro Katz, HC1OT Donor: Slovenian Contest Club	VC1A (Opr. Yuri Blanarovich, K3BU) Donor: Fred Capossela, K6SSS	Asia UA7A (Oprs: RU9AN, RU9AZ, RW9MG, RZ9AZ, UA9AJ, UA9AR, UA9BA, UN4L) Donor: Edward L. Campbell, NT4TT
World QRP Jacobo Oduber, P40B Donor: Doc Sayre, W7EW	World – 3.7 MHz Jerzy Smoczyk, SP3GEM Donor: Robert Wruble, W7GG	Europe TM2Y (Oprs: F6BEE, F6ARC, F6FGZ, F6FVY, F5NLY, F5SNJ, F5VCO) Donor: Bob Cox, K3EST
World Assisted Malcolm Davenport, Jr., K11G Donor: Snake River Contest Club	World – 1.8 MHz Bill Tippett, W4ZV Donor: Donald Thomas, N6DT	Oceania AH2R (Oprs: JG3RPL, JR3RVO, JI3ERV, KH2/JR8VSE, KH2/JR8PPG, JR7OMD) Donor: Junichi Tanaka, JH4RHF
U.S.A. John Dorr, K1AR Donor: Potomac Valley R.C. – KC8C Memorial	USA – 28 MHz Robert Shohet, KQ2M Donor: World Radio	South America PJ2C (Oprs: N4OKX, N6HR, W8KKF, WA8LOW, K8RF, W9EFL, W0CG) Donor: Victor Burns, KI6IM
U.S.A. Low Power Ann M. Santos, WA1S Donor: North Coast Contesters	USA – 21 MHz Walter P. Smith, K1DWQ Donor: Southern California DX Club	South America-Mainland CE3F (Oprs: CE3FIP, CE8ABF, CE8SFG, SM3SGP) Donor: Tomas Zappini, ZP5AZL & Renato Bellucci, ZP5XF
U.S.A. Zone 3 Robert Wruble, W7GG Donor: Bill Fisher, W4AN	USA – 14 MHz Bill Kollenbaum, K4XS Donor: Stanley Cohen, W8QDQ	MULTI-OPERATOR MULTI-TRANSMITTER
U.S.A. Zone 4 Jerry Rosalius, WB9Z Donor: Bill Fisher, W4AN	USA – 3.7 MHz Peter J. Dalton, W6KW Donor: Arnold Tamchin, W2HCW	World CN8WW (Oprs: DJ5IW, DK2OY, DK5WL, DK6WL, DK7YY, DL1MFL, DL2NBU, DL4MCF, DL6FB, DL6RAI, DL8OH, DL8WPX, DL9NEI, OE2LCM, OE2MON, OE2VEL) Donor: W6NL & K6BL
Canada Dave Dudley, VE3OI Donor: Niagara Frontier Int'l DX Assn. VE3WT Memorial	USA – 1.8 MHz Larry L. Lindblom, W0ETC Donor: World Radio	U.S.A. KC1XX (Oprs: KC1XX, K1GQ, K1EA, KC1F, W1FV, AD1C, N1RR, DL7ALM, KB1AWE, KM3T, K6AW, Christine) Donor: Paul Hellenberg, K4JA
Caribbean/C.A. 8P1A (Opr. Tom Georgens, W2SC) Donor: Alex M. Kasevich, VP2MM	Carib./C.A. – 28 MHz KP2A (Opr. Robert B. Hayes, KW8N) Donor: Snake River Contest Club	Europe M6T (Oprs: G4BAH, G4IFB, G3XTT, G3WGN, OH6YF, G4VMM, G0CYB, G4BUO, G4TSH, G4PIQ, G0MTN, G4BWP, G0KRL, G0AEV, G0WCW, G0AFH, G7OCD) Donor: Finnish Amateur Radio League
Europe Robert Cummings, GI0KOW Donor: Potomac Valley R.C. – W4BVV Memorial	Europe – 28 MHz Zdravko Balen, 9A9A Donor: CQ Magazine – VP2ML Memorial	Japan JA5BJC (Oprs: JA5BJC, JA5FDJ, JA5JCC, JH5FXP, JH5RXS, JR5JAQ, JR5VHU, JM1UWB, JS1OYN) Donor: Ryozo Goto, JH3JYS
Europe Low Power LY6M (Opr. Dainius Savicius, LY1DS) Donor: Scott Jones, N3RA & Tim Duffy, K3LR	Europe – 21 MHz Vitomir Kregar, S56M Donor: Tine Brajnik, S50A	CONTEST EXPEDITIONS World Single Operator XX9TRR (Pertti Simovaara, OH2PM) Donor: National Capitol DX Assn. Stuart Meyer, W2GHK Memorial
Africa 3V8BB (Opr. Hranišlav Milosevic, YT1AD) Donor: Gordon Marshall, W6RR	Europe – 14 MHz Wilfried Gottschald, DJ7AA Donor: A. G. Anderson, GM3BCL	WORLD MULTI-SINGLE T88WX (Ops: JA1WSX, JA7AYE, JH4OWG) Donor: Tachio Yuasa, JA9VDA
Asia Hamad Al-Nusif, 9K2HN Donor: 2 AM Dayton Pizza Gang	Europe – 7 MHz Drago Turin, S59A Donor: Roger Burt, N4ZC	WORLD MULTI-MULTI R1MVZ (Ops: OH2BR, OH2KI, OH5BM, OH5NE, OH5SC, RA1ACJ, RA1ALY, RA3AUU, RU1AS, AB6BH, K6JL, N6AA, N6ZZ, W6NV) Donor: Dieter Loffler, DK9KD DJ3NG & DJ4EI Memorial
Japan Satoshi Hara, JH5FXP Donor: Japan Crazy Contesters Club	Europe – 3.7 MHz Emil Tafro, T99W Donor: Marconi Contest Club – I3MAU Memorial	SPECIAL SINGLE OPERATOR AWARD World-All Band Under 21 years old Hamilton Oliveira Martins, PY2YU Donor: Gene Zimmerman, W3ZZ
Oceania 9M8R (Opr. Jim Sullivan, W7EJ) Donor: Northern California DX Club	Europe – 1.8 MHz Virgis Matizevicius, LY3BS Donor: Robert Kasca, S53R	WORLD ALL BAND HIGH YL Emily Thiel, P43E Donor: Yutaka Tanaka, JH3DPB
South America HC8A (Opr. Richard Smith, N6KT) Donor: Yankee Clipper Contest Club	Oceania – 21 MHz 9M6NA (Opr. Saty Nakamura, JE1JKL) Donor: Bruce D. Lee, KD6WW	
South America – Mainland Horacio Botero, HK6KKK Donor: Jose L. Bachmann, ZP6CC & Cesar Ivaldi, ZP5K	Japan – 21 MHz Kazunori Kuroki, JR6EZE Donor: DX Family Foundation	
SINGLE OPERATOR, SINGLE BAND	MULTI-OPERATOR SINGLE TRANSMITTER	
World – 28 MHz ZD8Z (Opr. James Neiger, N6TJ) Donor: Joel Chalmers, KG6DX	P3A (Oprs: RA9JX, 5B4LP, RZ3TX, UA9YAB, RV0AR, EU1AA) Donor: Southern California DX Club W6AM Memorial	
World – 21 MHz 9J2A (Opr. Akira Minagawa, JA0JHA) Donor: Robert Naumann, N5NJ	U.S.A. W2A (Oprs: W2XX, N2TX, KE2TR, N2DVQ, KD2TT, AA2MF) Donor: Carolina DX Association	
World – 14 MHz OE6EZ (Opr. Michael Schwab, OE6MBG) Donor: North Jersey DX Assn. – K2HLB Memorial		



Seiko, JJ6TYG.

(YT1AD), 6V6U (K3IPK), 9K2HN, 8R1K (OH0XX), and 9M8R (W7EJ).

Low Power

Pedro, HC1OT, repeated his world high victory of 1998. Taking time off from his photography business, he produced a new low power record. Far away in ancient Egypt, SU9ZZ edged out Dan, LY6M (LY1DS), and Emily, P43E, for second place. He sure made a lot of deserving contestants happy with the SU/34 multipliers. Dan, LY1DS, pushed LY6M to a first-place win in Europe over fellow countryman LY3BA. Third place in Europe went to DK0DO, DL1MGB operator.

Here in the US, Ann, WA1S, repeated as the #1 USA low power champion. She took away the USA trophy. Ann sure knows how to work the QSOs, and her accuracy is among the best. The battle for second place brought that honor to K1SD, with WT1O taking third.

Special mention must be made of the head-to-head competition between K6RO and K8PO/6 for the top West Coast score. K6RO prevailed in a close battle. It is not easy to make the Top 10 box, especially from Asia or the Indian Ocean. Three stations did it this year. The top Asian score was achieved by RS0F, with JL1ARF placing number one in Japan and Bruce, 3B8/KD6WW, taking Africa.

QRP

First you make the decision to try something a little different. Then you try something really difficult. Then you discover QRP in the CQ WW. With only a few watts output, the strategy you choose is almost always search & pounce (S&P). What a great way to learn very important contesting skills.

Jacobo, P40B (P43P), put his location and skill to full use to win the world QRP. He was able to run stations for a short time, but had to S&P most of the time. Jacobo's QTH is on the northwest coast of Aruba.

The next QRP champions were from Europe. YT7TY took top European honors, followed by F5MUX and I5NSR. The number one

USA QRP scorer was KQ3V, followed by WT3W and WA0JYC. Special mention has to be made of the QRP Asian scores of RZ0SR and JA6GCE. They are a long way from population centers.

Assisted

The year 1999 was the Assisted category's biggest. With over 300 entries, this category offers a way for DXers and contesters to contribute to their club. The category always attracts very good operators who want to try to maximize their multiplier effort. The secret to doing well in the Assisted category is to remember the QSOs are the name of the game—hard to do with so many juicy multipliers flying by on the screen every hour. The world top honor went to Rick, K11G, who finished ahead of Dave, KH2/N2NL. Dave's score was quite a feat from the far Pacific. Third world high and first in Europe was John, ON4UN. Second place in the USA went to Charlie, K3WW, who sure knows how to operate this category. Third place went to Lou, KS1L. In Europe second place went to André, F6GYT, who used the con-

test call TM2V, and third place was won by Ozren, 9A7W, operating 9A5Y.

Multi-Single

Cyprus is fast becoming a popular location from which to mount a challenge for top honors. This year was no exception. P3A operated by a team of Russian, Cypriot, and Belarus contestants pushed their station to the clear number one spot. After several years of experience on the island, the P3A team has found the right QTH. Second world honors went to the Canadian team located at the VE3EJ QTH. You can see a photo of John's QTH on the cover of January 1996 *CQ Contest* magazine. Not very far behind was the French team of TM2Y. Located in northeastern France, they used their experience to take the highly fought over top European spot. Second in Europe was the IQ4A team. Having lost part of their land, they had to consolidate their antennas into a smaller area on top of Mt. Capra. The third-place European champion was CQ9K. Using a special callsign, W2A ran away with the top USA position—not an easy task! Second place went to the Frankford Radio Club power house, N2NU, and third went to the northern Ohio team of K8AZ. The multi-single category is great fun. If you get a chance to join a team, you will find it a real learning experience.

Multi-Multi

Zone 33 was clearly the place to be for the 1999 contest. Winning is one thing. Setting new standards while turning conventional wisdom on its head is another. The crew of CN8WW clearly did both. With a score which at first glance seems like a typo, they worked almost 23,000 QSOs and made 73+ million points! In one contest they made the job of beating the world record from zones 9 and 10 seem like a herculean task. Operating from northern Morocco from a beach front where all their antennas were located, the CN8WW crew clearly did their homework. Their submitted log was very clean.

Finishing in second place was the Italian crew of IG9A. Putting another zone 33 into the top box, this team set up their station on Lampadusa Island. They also broke the old multi-multi record set by the third-place finishers, PJ4B. All three top multi-multi scores beat the old world record—some more than others.

In the USA, the crew at KC1XX and K3LR

TEAM CONTESTING

1. Neiger's Tigers #1: 66,546,582. P40E(CT1BOH), HC8A(N6KT), EA8BH(N5TJ), GW4BLE.
2. CCF Unlimited: 27,609,020. XX9TRR (OH2PM), 8R1K (OH0XX), OH5LF, OH1VR, OH0Z (OH2MAM).
3. Team Nippon: 21,314,108. 9J2A (JA0JHA), 9M2TO (JA0DMV), 9M6NA (JE1JKL), JY9NX (JM1CAX), V8A (JO1RUR).
4. Neiger's Tigers #2: 18,653,550. ZX5J (PP5JR), UA9MA, W1WEF, W9RE.
5. Bavarian Chaos Crew: 12,719,201. DF4RD, DF7RX, DK0DO (DL1MGB), DL3NCI, DL4NAC.
6. CCF Max-3-Towers: 11,040,774. OH6RX, OH6NIO, OH0V (OH6LI), LU/OH0WW (OH1EB), OH8BQT.
7. Beverly Contest Group: 8,911,148. K1ZM (W1NT), W1ZT, K1EO, K1JE, W1TE.
8. Neiger's Tigers #3: 5,867,980. CT1ELP, ZD8Z (N6TJ).
9. Dream Team: 5,703,608. LY1FW, LY2OX, LY5W (LY1DR), LY6M (LY1DS).
10. CCF Singles: 3,094,674. OH8LQ, OH2RA, E44DX (OH1RY), OH1JD.
11. Novi Sad Contest Team: 1,125,169. YU7QL, YU7W, YU7WJ.
12. CCF Lounge Team: 238,215. OH9A (OH1EH), OH1BOI.
13. CCF Part-Timers: 173,032. W5/OH7WV, OH4A (OH4JLV).
14. Isla de la Torre Team: 166,535. EA1BAW, EA1AAW, EA1ATQ, EA1EB, EA1/YV5NIQ.

had a real fight. When the electrons settled down, it was Mat's team at KC1XX who prevailed and set a new USA multi-multi record. After a lot of work making even higher towers and bigger antennas, the KC1XX crew can now almost see Ireland from the top of the 300 foot, 80 meter quad tower. Not at all intimidated, Tim's crew at K3LR once again demonstrated their considerable skill by taking second place. Third place went to another East Coast powerhouse, N2RM.

Not to be denied, the European champion, M6T, rose to the occasion and set a new European multi-multi record. The M6T crew set up their station Field Day style on a farm. Second place in Europe went to the always present RW2F. The RW2F crew is to be congratulated for such a great score from so far north. The third position in Europe went to OT9A.

When you look at the top multi-multi scores, bear in mind many of them were DXpeditions with most of the stations being assembled where there were none before: CN8WW, IG9A, PJ4B, and M6T. Quite an effort.

Team Contesting

With only four out of five members submitting logs, Neiger's Tigers #1 talked their way to a new world team record! With 66.5 million points in their logs, they sure made it clear who was the king of the hill. The battle for second through third place was interesting. Taking second place was Contest Club Finland Unlimited (CCF). They edged out third-place Team Nippon. If you check the calls on these teams, you will find many a rare multiplier. Why not talk to your friends around the world and form a team of five? It's easy and fun, and you will develop team spirit. Look at the rules in this issue and on the CQWW web page <<http://www.cqww.com>> for all the necessary information.

Special Mention

Every year the CQWW attracts contesters who travel to distant QTHs. A special thanks to the following DXpeditions: ZF2NK, ZF2LA, T15EBU, VP2MGL, VP2MBT, KP4/SM5AOE, V47KP, V47NS, PJ8/N7KG, KP2A, WP2Z, KP2/K1VW, KP2E, ZD8Z, XT2HP, EA8BH, 9E1C, 3B8/KD6WW, 6V6U, S79AU, 3V8BB, Z21KD, XX9TRR, E44DX, A61AJ, OH0Z, ZA/S51PF, ZB2/W8DO, ZB2/AA3SN, 9H3AAA, V8A, 9M8R, 9M6NA, 9M8YY, KH0/JF1RPZ, KH0/JE3WOM, T2DX, YJ0DX, FW/JM3XAV, P40E, P40R, HC8A, 8R1X, PJ9/ON4CFD, 5B4AGD, OH0V, HI9/DK8YY, 6D2X, XE2/N7RK, VP2MCS, J6J, FS/K7ZUM, VP5R, VP5DX, NP2B, P3A, ZA/S57AW, T88WX, AH2R, PJ2C, V26B, J3A, J6R, VP5T, IG9A, IH9P, CN8WW, HB0/HB9AON, R1MVZ, T33Y, ZX0F, and PJ4B.

The competition was fierce in many categories. Check out the scores to find them. For starters, look at the USA multi-multi battle for the top position, Europe 3.7 MHz, Z31JA vs DL3LAB, KP2A vs WP2Z, JH5FXP vs JH4UYB, V8A vs 9M8R, L99D vs LT7H, LT0H vs LU7YS, XR1X vs CE8EIO, S55A vs S59AA, and S58J vs S57J. There are many more such close races as well.

There were many outstanding efforts from propagationally challenged areas. The top USA score from west of the Mississippi was Steve, N2IC/0, followed by W7GG and W0EJ. Out in the Pacific, Jim, 9M8R (W7EJ), edged out V8A (JO1RUR), with Al, NH7A, third.

KL7RA's effort in the multi-multi category was outstanding. W6KW finished first in the USA on 3.7 MHz, and W0ETC was first on 1.8 MHz! The club station JN1YUU was operated by 10-13-year-old YLs, and UX8IXX was operated by young students. If you work those stations, be sure to give some encouragement to these youngsters.

New All Time SSB Records set:

World: AB EA8BH (N5TJ); 28 ZD8Z (N6TJ); L3.7 TA3J; Q28 KP4FP; Q14 KR2Q; A28 5X1T (ON6TT); A21 VA3MM; A14 RN3QO; A1.8 S57M; MM CN8WW.

Africa: AB EA8BH (N5TJ); 28 ZD8Z (N6TJ); A28 5X1T (ON6TT); MM CN8WW.

Asia: 28 A61AJ (DL2CC); 3.7 E44DX (OH1RY); L14 RJ9J (RA9JR); L3.7 TA3J; A1.8 EX8MBA; MS P3A.

Japan: QA JR4DAH; Q7 JA6GCE; Q3.7 JA1AA; MM JA5BJC.

Europe: AB G10KOW; 28 9A9A; 14 OE6Z (OE6MBG); LA LY6M (LY1DS); L28 9A4KK; L21 RU4PL; 3.7 9A2EU; QA YT7TY; A28 SP3KEY; A21 OH0V (OH6LI); A14 RN3QO; A1.8 S57M; MM M6T.

North America: L21 VC7A (VE7AHA); L1.8 VE7SV; Q28 KP4FP; Q14 KR2Q; A28 KP4WW; A21 VA3MM.

USA: 28 W4ZV; 21 KQ2M; LA WA1S; Q14 KR2Q; AA KI1G; MM KC1XX.

Oceania: L28 KH0/JF1RPZ; QA DU3RCM; Q28 N0KE/KH6; Q3.7 KH6SQ (W8QZA); AA KH2/N2NL.

South America: AB HC8A (N6KT); LA HC1OT; L14 HK3JJH; MM PJ4B.

Comments

The 1999 contest was definitely a great one. Beyond the great conditions, your help by submitting an electronic log made the contest the most thoroughly checked in history. We received over 3000 e-mails and disks. That was about 75% of the total logs received at CQHQ. Your effort to submit an electronic log allows for a fairer adjudication process.

Submitting an electronic log is easy. Send your SSB log and summary to <ssb@cqww.com> by December 1, 2000. Please try to send your log in Cabrillo format. The Cabrillo format is now a standard submission with CT, TR, NA SuperDuper, and WriteLog. Please remember to name your file with your call with .cbr extension—e.g., PJ4B.cbr. If you have an older version of any standard logging software, send the following files: CT.all, TR.dat, NA.prn. Of course, include the .sum file if it is separate. If you are multi-single, please send your CT.bin file, because there are two .all files for the multi-single category. Please do not submit program-specific files such as spreadsheets—for example, Excel, Microsoft Word, or any other non-standard format. If you have any questions about the CQ WW please send them to: <questions@cqww.com>. You can see information concerning the CQ WW on our web page at: <<http://www.cqww.com>>.

Play by the Rules

One of the problems that has been around for years and years is bending the contest rules. Every year the CQ WW Contest Committee receives complaints about individuals who are thought to be cheating. The main method used in a tricky manner has two manifestations. One is a single operator entrant who has the help of several people to find QSOs or multipliers, for



Brice, W9PNE, 81 years young.



Operating 14 MHz from Argentina was LU7YS.

example. The Contesting Reflector has been replete with information concerning possible violators. The reflector is an ideal forum to air such complaints. Peer pressure is the best way to inform an errant contest to follow the rules. The winners on every level have in contesting want the assurance that their competition is playing fairly.

The second method is the violation of the distance rule by multi-single and multi-multi teams. You are not allowed to have stations of any kind located all over a country, city, or island. We are aware of several such violators, and as we collect evidence in the future they will be disqualified.

Thanks!

Each year the results you finally see in this issue are the result of thousands of hours of work by the CQ WW Contest Committee. The log checkers were: N3ED, K1DG, KR2Q, N2NC, K6NA, W7EJ, N5TJ, and N9RV. Problem logs (decoding) were handled by W3ZZ, N5NJ, and JE1CKA. Converting paper logs to electronic form was handled by K3LR, K3ZO, and N2NC. Helping to proof-check the call database were K3LR and N5TJ. DX members of the committee helped obtain PTT databases.

Contest Results (from page 19)

a better antenna system for 40, 80, 160...**M2H**. Wonderful fun and a great way to work new countries. Gales snapped the mast in half Sunday morning but managed to soldier on. Thanks for a great contest!... **MM0BQI**.

Comparing our approx. 4.2 million points to the last year's score, we increased our score by 300%! Our Q's increased by 180%! Adding up 10, 15, and 20m Q's clearly shows that 70% of this year's contacts were made on the high bands, a trend that I am sure will be present in all other logs too. How good actual 10m condx were you can derive from our 10m Q's, which by the way made 35% of our this year's total Q's. To top it off we achieved DXCC on three bands, another first time record for us! To sum it up: Condxs were ultra-fine-business—sunspots are back. Our mini-team converted the fine condx into our best score ever!... **OE5T**. Great contest. Got really carried away when condx turned out to be so good! Got the stack working just a few hours before the contest started (last-minute job, as usual) and it seems to have made a difference... **OE6MBG**.

Absolutely great conditions. Having set a 1700 q, 120 c, and 35 z target I got a lot more than that with much more sleep involved!... **OH2RA**. This was the best concert Paksalo Philharmonics (a.k.a. OH2U) has ever held. Huge and active audience made it a thrill our orchestra will remember for long. Not to mention the excellent acoustic environment in our global concert hall. What a blast. And just to emphasize the fact that we take live music seriously we now and then break records. This time it was a 30-year-old piece composed by OH5SM. A song that was just being played for too long. A big "thank you" to all for QSOs. P.S.: Despite the fact that encore was only demanded by ourselves we'll do it!... **OH2U**.

Conditions were very good on higher bands. The aurora was quite strong during second night. Lower bands suffered quite a lot of this phenomena. My target was to break old OH-record from 1980 (4.6M). I almost reached my target score (5M) and almost number of QSOs (3500). But I failed some multipliers. After contest I felt having made a good job. But compared conditions my target was perhaps too low. Anyway it was great fun and my first CQWW all band operation as single operator... **OH5LF**. I've never heard so many stations on 10m! Good prop, nice contest!... **OK1KT**. This year Murphy was not visiting, he was almost staying with me. During the contest, or before, I have lost the following: (1) My car—broken bottom of the engine and lost all oil, etc., stuck in the remote location of our station after the contest. (2) Power supply for our old amplifier (working without hitch since 1984)—lost it in flames! (3) Control box from the low antenna, rotating by pressing the conductors with screwdriver—trying to repair but... (4) Top antenna—not repaired until 8 hours before end. (5) Bottom antenna—not repaired until 4-1/4 hours before end—i.e., end of contest. Concerning all the above I am happy with the result. I believe that even if everything would be okay Will DJ7AA would beat me anyway... **OK1RI**. Anyone complaining about sunspots should have listened to 10m during this CQ WW SSB test. PSE don't forget the QSL chore guys!... **ON4CAS**. My very first CQWW DX SOAB. Happy for my result for 34 hrs operation. 10m was fantastic. 160m was too difficult because of the Belgian regulations (20 kHz band with 10W only)... **ON4LCE**.

Great contest, great condx. Missed zone 26 for a sweep, but wkd zone 1 (KL7Y) thru the US pile. Amazing!... **ON7NO**. Great contest! We set up more operator positions so band changes were a lot easier. However, linking the stations in a network was now a problem! Too many operators for a M/S operation, but not enough for M/M so a lot of supporters around all the time! Thanks again for a fantastic weekend! Who else can bring such an event on the air than **CQ**!... **OT9L**. Millionaire! The story of PA1TT during the CQ WW SSB contest 1999. Starting this contest I never had the feeling that I would get more than a million points this contest. Like every year the biggest fun would be joining and giving some points away. Since the Netherlands are very crowded, it is quite a problem to gain a house with a large garden, so the lower bands are a problem and 160m is not possible at my house. In order to have some activity on 40m and 80(75)m I made some sloper antennas, which were optimized with an analyzer... **PA1TT**. Keeping PY2NY (my husband) away from radio during best time on 10m was hard! Would like to listen more YL in contests!... **PU2VYT**. This contest was big! Too many stations in action in same time! I never see it before... **PY5TJ**. Very best conditions! Many stations from W/VE. My personal record in CQ WW... **RA3DNC**. This is my first CQ WW after 5 years. Many thanks to Karl and his wife Zvonka for hospitality on S52O contest location... **S52O (S52RU)**.

Band was awesome the first afternoon. Had an average rate of 200-plus QSOs over the period of 6 consecutive hours. Not bad for S5 with another 20 or so countryman on the same band... **S53R**. Great condition this year. I wish I had some monoband antenna for high bands. It was nice to run US in "Caribbean" mode... **S57S**. Great contest and UFB propagation on 28 MHz, but it was painful

to be there with only 100W because the band was crowded!... **S58J**. I'm sorry for very short time operation but it was not a contest expedition since I was in Seychelles from 21 Oct. 1999 to 04 Nov. 1999 with my wife on honeymoon vacation. Anyway there was also a very peculiar propagation very hard to be heard with only a vertical and 60–80 watts out also with granitic hills toward north, north west. QTH at time of contest was Hotel Coco de Mer, Praslin Is. (AF-024 IOTA ref.), Seychelles... **S79AU**. Being 17 years old, licensed since 1997, it's a really nice experience to work from a station like SK3LH. It was a wonderful contest and in a few years I hope that I will be more experienced and get even higher scores! I sure hope that the CW contest will have the same propagation!... **SK3LH (SM3WMV)**. Yes, we like M/M. We're not aiming at the king's throne. We just like to have as much fun as possible! Fellow hams believe we are crazy going M/M with two ops...hi. Skill and fun: That's ham radio... **SK6D**. My first CQ WW. Great fun!... **SP5AWY**.

Linear failed 3 hours prior the contest started. Thank you, Mr. Murphy. I usually run 10m HP and at 23:40 UTC I decided to run in SOAB LP category with simple top band antennas. I achieved first goal—1000 QSO and second—1 meg. Points. That was my great time. Once again, thank you, Mr. Murphy for the great fun!... **SP5DDJ**. Congratulations to 9A4KK and 9A99F who also did better than old zone 15 record. At least I have T9 record... **T93Y@T91ENS**. We are pleased to achieve this score and we reached over previous best score for TM1C station. The young team is also pleased to reduce the difference between TM2Y and TM1C (TM2Y has only experienced contestants and DXers)... **TM1C**. Conditions were very nice. 15m band was used from 21.100! up to 21.451! It was very hard to have good runs in so good conditions and with such an activity. Everyone wants to be on. CQ WW contest is suffering from its success... **TM4 (F6HLC)**. This was my first semi-serious effort from new antenna farm. So it's far away from what I hope to build, enjoyed the contest very much. Local packet cluster failed to work, so used sporadic telnet sessions... **UA3AB**. Excellent contest, super propagation on 10 meters. pity I could not work full time because of XYL and family duties. The setup included IC751, homebrew linear—400W and A3S 3-el tribander. The best hour for me was 184 contacts. I hope CW part is going to be as good... **UA9CDC**.

I'm happy! Very good activity on 10m. Trx for FB contest... **US8U**. It was great! Sorry but I can't operate full time of the contest. Thanks to everyone who call me and give some points. Hope to participate in CQ WW soon!... **UU2JZ**. Big thanks to contest committee for the contest. In this WW contest took part many young operators of our club station. It is first WW for all. These school boys and girls are very glad and look with big eyes to the worldwide map. All our equipment made in home and always present bad surprise for operators: UW3DI (on electronic valves, made in 1967). I think if we shall have better transceiver (TS-450, for example) then children can be QRV on all bands in all times and grow results in contests. If contest committee or anybody have an old transceiver, Please help school club station, young operators (champions of WW contest in future, with your help)... **UX8IXX** (If you can help, contact <questions@cqww.com>—ed.). Problems with antennas, 4 square was omnidirectional, condxs were poor, worked hardly any Eus the first night. Still had more fun than on 160... **VC1A(K3BU@VE1ZZ)**. Best conditions on 15m in MANY MANY years. What a hoot!... **VC7A(VE7SV)**. Some great runs!! Finally was able to connect with the DX Cluster thru the Telnet... **VE2CSI**.

I was very disappointed in the stations I heard asking people to spot them on DX Clusters. This is against the rules, and the CQ WW Committee should crack down on this nonsense... **VE22P** (*It is against the rules of the CQ WW to spot yourself in ANY way—ed.*). FUN in a big way! Nice to have HF antennas back up. Will be interesting to see the UBN... **VE3PN**. Superb conditions and a real thrill to work country #309 (5R8FU) barefoot with a dipole!... **VE3ZZ**. CQ WW DX an event you just can't miss... **VE6SV**. Ran 100 watts and so the neighbors are still talking to me! I had a great time on 10m. Tremendous band conditions! Thanks to my wife for keeping my 1-1/2year old and 4 year old busy during the contest... **VE7GFS**. Talk about surfing the net...try surfing 10 meters...dead calm one moment, Bonzia Pipeline the next... **VK4ICU**. What fantastic conditions. My goals were to beat my previous best of 3.4M in 1982 and try to get over 4M! 3.99 doesn't count. I'll have to try harder next year. Hi... **VK5GN**. First time contesting and a great experience! Thanks to CQ for having this kind of event... **XE2Q**. This is our first DX international event (multi-multi) with many new members (newbies). Surely will be back next year!... **YB0ZDC**. I "hit and bounced" for few hours only, but enjoyed giving points to the others... **Y09HP**. I enjoy the contest but in the night the mosquitoes pileup enjoy me... **YV5IVB**.

I am extremely pleased to have carried out my first contest after several years as amateur radio operator, and

I would like to thank YV5LIX for motivating me to participate, even though he knew how difficult it was going to be due to my working conditions, a CB radio that I modified to work on 28 MHz at 5 W, and my less than optimal antenna system. Also I would like to thank all the hams around the world that with great patience and sportsmanship made the effort to listen to my QRP signal... **YV5LVT**. I operated from the QTH of YV5LIX, Jose; and I would like to thank him for lending me his fine contest station. This is my first contest and I am looking forward for the next year one... **YV5OHW**. Long time didn't hear so big activity on 10m. Very good condition without ORM in the mountain as I have at the home. I like to apologize to many hams who asked me to move on other bands, which was impossible because I have antenna only for 10m... **Z31JA**.

USA QRM

It was nice to work some DX on some of the lower bands, 80 meters. Had a lot of fun and look forward to doing it again next year. I finally put up my ARRL map of the world during this contest, so I got to see where some of the rare DX was really operating from... **AA1SU**. It was a lot of fun, but I just have to get the tribander back up in the air!... **AA2AD**. This is only our third contest. Our goal will be 2.5–3 million. We worked so hard to get ready for the contest that we both crashed and burned the second night. We completed remodeling the office/radio room just before the contest. We also worked hard to get new 40m and 80m antennas up for this year. Conditions were a lot different this year such that 40/80 were not as important as last year. The 40m wire beam was very effective. Broke lots of pileups with the C31-XR, Super antenna. Unfortunately, we only have one. We feed it with three separate feed lines so the run station and the multiplier station can share it. We haven't really got that working well just yet. All in all, a blast!... **AE2F**. Finally moved up to a real computer. TR makes it too easy! Thanks for a great contest... **AI2C/4**. Only a part-time effort but still had fun. Great conditions. How do you guys do tha?... **K0EJ**. Band conditions made this one of the most fun contests in a long time... **K0GQ**.

Who says ham radio and contesting are dying? Only open spot on 10 was 29.010 Sunday AM!... **K0LR**. Working ZX0F on all bands especially on 160 where I had only six stations worked. Worked (finally) VK9LX at 2359Z Sunday for my last contact and multiplier. Turned on the radio Sunday morning after 3 hours sleep and discovered that I could not change bands with the homebrew interface I was using so I stayed on 20 until I decided to get the CT manual out to see if I could solve the problem. Blamed it on the change to EST by the computer (Hi Hi). Lesson learned: If all else fails read the "blanket blank" manual first. This is only the second time working a contest and getting a little better at it and liking it more. Having an understanding wife, who is also a ham, helps considerably... **K1BD**. Since joining the fun in CQ WW SSB in 1996, I have doubled my score every year. I think it will start to get harder now to keep doing that. This year was fabulous... **K1TW**. Nice to have 10m open once again. There was even activity above 29.100! 15m was wall-to-wall with stations... **K3IXD**. Murphy struck as usual: Rotator on quad froze Saturday evening, and other commitments slowed down things on Sunday. Nice to see the great conditions on 10m... **K4LQ**. Very good conditions on 10 and 15. 10m was full of contest stations from 28.3 to 29 MHz... **K4LTA**. Great contest. Four of our five operators were licensed together as Novices in 1969. This was our first time to finally get to operate together as a team. Two of the operators had not seen each other for 30 years! What a thrill to team up again during a contest with great propagation. Thanks for all the QSOs... **K5MR & crew**.

Very hard to leave 100+ per hour runs to search for mults... **K5RX**. Over 600 kHz of wall-to-wall RF on 10m. It's been a long time since I've heard that much SSB operation above 29 MHz... **K5VG**. Wow! As N5KO says, "There's no meters like 10 meters!" I installed a new Tri-Ex 54 foot crankup this summer. I had no idea how much better it would be than my old 30-footer! (You mean my new tower wasn't 100 percent responsible for the improved conditions?!) I was unable to establish any sort of a run on any band, but I was very effective at S&P, so that's what I did. 40m was very tough, and I couldn't hear anything on 80. I know what my next antenna project will be—80! The good news is that once again, nothing broke!... **K6GT**. Biggest thrill: working A61AJ at 0300Z. Fairly good conditions but from the NW one wouldn't know it... **K7QQ**. This contest was a lot of fun. The first CQ WW for my friend, N6ENU, who was celebrating his new KT34XA. We can conclusively say that it works now, although the rotor may be a little tired!... **K7ZL**. My first CQ WW. Never knew there were so many countries out there. Had a blast. Will be back next year for sure!... **KB0WHY**. Breaking a pileup to contact South Africa late on the second day! Also, the great presence of so many DX countries!...

KC6FUD. Incredible condx on 15 and 10m! It's a lot of fun having a great team assembled for the CQ WW contests... **KC1XX.**

Extremely dry WX condx meant a high QRN level on 15m. It never dropped below S5 on my meter. How much more fun I would have had with a low noise level! Great openings into EU but never could get a JA run going... **KC6X.** 42 Zones, 54 DXCC entities, 123 contacts with 100W into a dipole. The bands were good. Also worked on WAS contacts... **KC7WUE.** Surpassed my personal goals for the contest and had fun in the process. Was pleased with the conditions on 40. However, the JA's seemed to be weaker this year. I wish that the EU's would listen up more often into the US band... **KD4RH.** Can it get much better? All contacts made in S&P mode... **KF8K.** Our operating team keeps getting better. Very pleased with our improvements over last year's efforts... **KG6OK.** Only casual entry. Mostly looking for new countries, of which I found about 10. Spent Sunday morning putting up a TA-33 Jr tribander. Beats the pants off my G5RV dipole at the same height, especially on 10m! Thanks to all who put up with my weak signals... **KI6LO.** My 45 ft. vertical ant. fell down in a storm about 0400 of the first day—bummer. My wife and I got it back up about 15 hours later. I still managed to get 16 zones!... **KI5YP.** 10m was awesome! How long has it been since one had to look above 29 MHz for a clear spot to call CQ?... **KK6SS.**

Very close race here on 10m North America. Got the antennas up with just a couple hours before the start. Good to get KP2A back on the air again... **KP2A (KW8N).** Needed more rest before the contest; low band mults suffered as I slept. Many things left to learn and improve but overall a very satisfying experience. Thanks to N4AF for the use of a fine station... **KS4XG@N4AF.** My first phone contest and I loved every minute of it. Will be in a lot more contests from now on. Turned out 10m was the place to be. I should have stayed there longer. It was open to the world... **KW4DA.** Great contest!! Really enjoy the new (shorter) callsign. I was very excited to hit the 100 country mark for the first time. Thanks DX ops... **N0RA.** My 2W on 10m to the HB x-beam was enough to have loads of fun. I did not usually run SSB but this was a blast... **N2VPK.** My best rate was CQing on 28.992!... **N4GN.** I don't think I have ever heard 15m in better shape than it was on Sunday. During the 23 hr in the final minutes of the test you could hear the world!... **N4MO.** Great conditions. Next year will have another operator, or two, and improve the LF antennas, especially the 80m 4-square which did not perform as well as it did last year... **N4TO.** Ten being wide open to Europe and JA sure makes it more fun for a "little pistol" like me! 98% of QSOs were S&P. Almost swallowed the mic when 5X1T answered one of my rare QCs!... **N5AW.**

Thanks to all the stations who worked us in the contest. We really had a ball. Conditions were great most of the weekend. The three tribander stack was great for mults!... **N5YA.** In memory of Bill Adams, W6BA, who became a Silent Key one hour before the contest started... **N6AW@W6KP.** What a trip! Comments from: R1MVZ – "QRP is not allowed in this contest! 3V8BB – "You're actually moving my S-meter!" CN8WW – "Great signal for QRP; S8 on the meter!" Jim (N6G) at PJ4B said, "You must be a masochist!" Whatever! I can't wait 'til the CW portion! The good news is that the pace was slow enough that I filled out all my QSL cards between contacts!... **N6ZS (QRP).** No equipment failures! But we blew the primary-side fuse for the power transformer on the power pole outside the house! Off the air for about an hour on Saturday afternoon while the electric co-op replaced it. Ten meter condx will be remembered a long time... **N6NR.** More than doubled my previous high number of contacts (all S/P). Had so much fun, decided to submit my log (first time)... **N9QQK.** While my score will not impress the "big guys", it is a personal best for me and the first time I have achieved the million point level. Ten meters was awesome, and it was also my first time working over 100 countries on a single band. About 99% was search and pounce. Above all, it was great fun!... **NT4D.**

Great band conditions. We were a limited multi-multi using mainly three stations most of the time with a fourth available for 40m. A thunderstorm took us off the air for a while on Saturday. We also had an electrical problem which knocked power out twice. Best food of the weekend was the BBQ ribs prepared by N5XJ... **NX5M.** Unbelievable propo on all bands... reminiscent of late '70s. Noisy Friday night with thunderstorm moving through... hurt on 40 and 80, but can't complain. 160m antenna evolved into great dummy load hrs into contest. Enjoyed the courtesy and fun everyone seemed to be enjoying. Worked into a personal best!... **NY5B.** When EA8BH answered my CQ on 160, he was so loud I swore he was a bootlegger. Do only crazy people like me do a single band 160 effort in this one?... **W0ETC.** Ten meters was fantastic! The entire phone segment of the band was covered with contestants. Had to go above 29.0 MHz to find a clear spot... **W4JH.**

Lots of fun. Great conditions. After winning the USA M/S category in the ARRL DX Phone contest this year, we decided to try our first M/S in the CQ WW. It was definitely a learning experience: (1) The first lesson learned was that you need a lot more operators to do this category seriously. We had only one full-time op (KI7WX wins the Iron Man award) and three part timers. (2) Lesson two was that four guys connected to a local Packetcluster doesn't cut it! Why do the packet links always go down when you need them the most? (3) You must link both stations' computers together, and this always takes n+1 COM ports, where n = the number of COM ports your computer has installed. We got in 41 hours, and were actually sorry to see it end, unlike a lot of recent low rate marathons. Nothing blew up and fun was had by all, so I guess it was a success... **W4MR.** The European QRM was so bad that I had to use the "search and pounce" method all weekend because I could not find a clear frequency!... **W4RRR.** Nothing above 40! We beat our W4NC score from last year by 1 M Pts! Finally, had solid runs on 10 and 15. 10 was amazing. Its operators are skilled folks and not always lots of money dumped into hardware. Congrats to W2A and nice to see W4MR jump in. Tks for the post contest cookout by my XYL, Julie... **W4WS@N4VHK.**

This was a fun contest. I worked some all-time new countries. The best part of the contest was working the station with the coolest call in the world, DX1DX!... **W5CTV.** Had a good time and beat last year's score. What more can you ask for? Maybe a couple of new countries next time! Thanks to all the stations that stuck with me to complete the contact. I'm antenna challenged with my multi-wire dipole hidden up on the condo roof. Most of the signal goes into the roof. It's still better than loading up the flashing on the peak of the roof. That was too scary with wood shake shingles... **W6SA.** This was the year to see records broken on 10m. It was pure delight to hear so many parts of the world, even though nothing was heard from zones 17, 22, and 34. My rotator quit the last 1.5 hours of the contest; fortunately the antenna was pointed toward JA... **W6YA.** Great contest! Great conditions! I purchased the Force 12 C4S in June and finally erected it the day before CQ WW. Wow! wWhat a difference a Yagi makes! DX actually returned my calls! I doubled last year's score! My highlight was breaking a pileup on HZ1AB with 40 minutes left in the contest and watching CT roll up my score (new country and new zone). It's more fun than a pin-ball machine... **W8VE.** Couldn't generate any significant runs on 20m, but I worked a lot of countries and zones that I've never worked in this contest before. I thought I had a chance to work 39 zones (34 doesn't exist from my point of view), but could never find zones 23 and 24 on 20m... **WA7BNM/6.** Quiet bands and good propagation helped me snag my first China contest QSO!... **WS1A.** Started this year's contest with the modest goal of making more than last year's 68 QSOs. Wound up with 306 and score close to 200,000; great conditions on all bands... **WT2JG.**

Station Operators

Multi-Op Single Transmitter

4K7Z: 4K5CW, 4J9RI, 4KD5, **4T4WW:** 0A4AHW, 0A4BH, 0A4CVT, 0A4DJW, DL6NMC, **4U1VIC:** JH4RHF, OH2TA, DF6VP, DL1EFD, DL2MEH, DL2OBF, DL3KDV, DL4OC, DL6BCF, DL9YAJ, **5H3US:** K8LE, WD8SDL, K8MN, **5RFU:** SM0DJZ, **6D2X:** K5TSQ, K5TR, N5KO, N5TR, W5VX, XE2DX, XE2YNE, XE2YN. **7A0K:** YB0AI, YB0AZ, YB0DD, YB0HD, YB0NU, YB0VAK, YB0CBI, YB0EOT, YB0FMT, YB0LUC, YC0LBK, YC0LDA, YC0ONE, YC0YAD, YD0FIM. **8S2F:** SM2ODB, SM2HWG, SM2LY, SM2NOG, **9A1CMS:** 9A5TR, 9A5AVW, 9A5AHD, DAMJAN, **9A10:** 9A2OM, 9A2TN, 9A3IQ, 9A4U, 9A2AJ, 9A4FM, **9A7A:** 9A7V, 9A8A, 9A3TR, 9A4PA, 9A4RX, 9A6DM, **A10N & W1RH:** AA5NT & N5TVL, WJ1U, NOOT, AD4PU, KE4RHU, KC5LBE, W5GN, WD5FLK, N5UJ, **AB7RW & KC7KQ:** AD4ES & K9ES, **A2F & WR21.** **AH2R:** BA4RC, BA4RD, BA4RE, BA4RF, BA4RQE, BD5RV, BG4RUC, **B9G:** Club, **BV2B:** BV2PU, BV2NT, BV2KS, BV2KI, BV2CE, BV2WA, BV2N2T, BV2/JP1RIW, **BY1PK:** BA1AB, BA1OK, BA1RB, BA1ZL, BA1Z7SGH, **BY2JCY:** Club, **C33AA:** Club, **C3E3F:** CE3FIP, CE3ABF, CE3SFQ, SM3SGP, **C3E3PA:** CE3TLH, CE3PCN, CE3SOC, CE3WMS, CE3RR, CE3KWN, CE3HDI, CE3TQU, CE3WDV, CE3EDW, CE3HFD, CE3JSX, CE3WE, CE3LCF, CE3CTF, CE3CB, CE3OMN, **C4E4TA:** Club, **C09:** CT3BD, CT3BM, CT3CD, CT3DL, CT3FH, CT3IA, CT3KN, CT3HK, **CS1A:** CT1DX, CT1FAC, CT2FUN, CT2FVL, CT2GDF, CT5GQJ, **CS9Z:** CT3CK, CT3EX, CT3FJ, CT3QF, CT3HV, CT3KY, **CT1EGF & Others.**

DH0HQ: DL1AUZ, DL2SAX, DL3DX, DL3TD, DL4ALB, DL5ANT, DL5YV, DL7V0A, **DF3CB & DL3LBA:** DL7AOS, **DH0DX:** DF8AE, DK5ON, DL1YAW, **DH1TW & DH1SGS:** DJ2000, DH6WS, DH9DP, DH2CHD, **DH0MM:** Club, **DL0BKR:** DK1WV, DH2PK, DL5WJ, DJ1ER, DJ3PY, DL6EN, DK9WQ, **DL0GL:** DL3QJ, DL2V8, DL6YFB, DF8QJ, DL1YTM, DJ0RU, **DL0HNF:** DL2YEY, DL6ON, **DL6PK & DH8PK:** DJ1YH, DK5WQ, DL3SR, DL8WQ, **DL8READ & DL9LR:** DL6ECA, **DN1MA:** Marcus, Robert, **DX1DX:** DU1SAN, DU1TW, DU1AHS, DU1IHU, **DX1RN:** DU1LER, DU1PBM, DU1TLD, DU1OPV, DY1MDU, DY1PMK, DY1GSK, DY1ZWX, DY1RPS, DY1HJJ, **E1A1COZ & EA1EAG:** EA1AS, **E1A1EY & EA1DZW:** EA1CS, EA1UB, EA1BWX, EA1BVP, **EA1RCT:** EA1LDL, EA1APM, EA1AUN, **EA1URO:** Club, EA2AAE & EA2AWF, EA3BO, EC2AEU, **EA3AR & EA3BHB:** EA3RGK; EA3BOW,

CIRCLE 88 ON READER SERVICE CARD

CIRCLE 65 ON READER SERVICE CARD

CIRCLE 96 ON READER SERVICE CARD

MADEIRA ISLANDS																	
*CT3GV 28 58,401 434 21 60																	
MALI																	
TZ6DX 28 465,080 1447 22 88 (Op.: K4RB)																	
DOMINICAN REPUBLIC																	
H1R0X 28 229,274 834 28 90																	
MAURITIUS																	
*3B8 /KD6WW A 2,534,468 2057 114 322																	
NIGERIA																	
5N0W 21 1,625,406 3139 38 145																	
SENEGAL																	
6V6U A 9,562,950 6118 128 410 (Op.: K3IPK)																	
SEYCHELLES																	
*S79AU A 4,386 47 22 29 (Op.: IK4AUY)																	
SOUTH AFRICA																	
ZS6SA A 4,528,840 4138 115 289																	
ZS5NK " 373,550 596 78 163																	
ZS4I " 187,960 370 60 125																	
ZS0E " 80,340 236 51 105																	
ZS6HO " 16,200 93 22 38																	
ZS6IR 28 199,472 519 30 107																	
ZS6H 14 77,926 270 28 66																	
*ZS4NS A 2,640 40 17 23																	
*ZS1ESC 28 265,360 840 29 78																	
TUNISIA																	
3V8BB A 10,939,698 5796 147 546 (Op.: YT1AD)																	
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9J2FR A 1,443,295 1628 90 211																	
9J2A 21 2,331,054 4162 38 160 (Op.: JA0JHA)																	
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Z21KD 28 454,572 1377 31 91 (Op.: DK4XJ)																	
ASIA																	
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*EK6TA A 1,755,015 1817 81 264																	
*EK6CC 14 387,587 1114 35 114																	
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UA9MA A 5,692,200 3385 141 495																	
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RA9DZ " 1,156,800 1236 96 304																	
UA9LAC " 782,400 971 76 244																	
RK9CWG " 759,486 949 78 243																	
(Op.: RA9CGK)																	
RA9DA " 459,510 571 78 240																	
UA9OS " 416,160 611 79 210																	
RA9AN " 242,351 365 67 190																	
RA9AC " 139,810 249 45 156																	
UA9KM " 129,904 314 58 126																	
UA9XEN " 66,246 150 60 123																	
RW9DX " 59,869 185 39 98																	
RX9FG " 43,845 159 31 80																	
RW9HA 28 677,188 2029 34 124																	
UA9CDC " 455,215 959 33 148																	
UA9CAW " 125,160 409 27 93																	
RZ9UA 14 1,063,950 2360 37 136																	
*RZ9WZ A 1,887,349 1564 103 328																	
*UA9JD " 1,002,588 1590 65 203																	
*RW9QA " 901,945 1018 76 265																	
*RK9SWF " 807,598 850 81 273																	
(Op.: RA9-167-69)																	
*RK9AD " 434,534 562 86 248																	
*UA9CR " 313,900 424 77 215																	
*RA9XF " 284,540 541 51 154																	
*UA9ZBN " 192,096 348 66 166																	
*UA9ORQ " 168,340 357 58 132																	
*RW9RF " 111,048 269 45 123																	
*UA9JMS " 92,637 299 37 104																	
*RZ9OU " 91,936 213 53 116																	
*RA9CZ " 10,920 95 19 59																	
*RA9SR 28 339,012 922 31 115																	
*RA9AE " 237,120 678 33 119																	
*UA9JMB " 223,000 900 20 80																	
*RV9BB " 195,520 558 32 104																	
*UA9CES " 110,210 415 26 81																	
*UA9AAP " 88,023 284 26 85																	
*RA9FF " 34,578 133 26 76																	
*RK9KW 21 277,712 802 33 103																	
*RA9UAH " 73,010 287 23 75																	
*RJ9J 14 716,720 1846 37 133 (Op.: RA9JR)																	
*RK9LWA " 143,990 507 30 91 (Op.: Kraiov)																	
*UA9BS " 130,750 409 31 94																	
*RK9AC " 120,086 497 25 72																	
*UA9ACJ 7 38,214 218 15 60																	
RV9AM A 1,265,486 1751 95 227																	
RA9AM " 867,350 1319 110 308																	
RV0AX " 735,264 1102 76 212																	
UA0JDD " 162,155 427 74 131																	
RW0BG " 120,184 322 55 126																	
UA0SR " 24,444 204 37 60																	
UA0LS " 8,832 85 24 45																	
UA0CW 21 349,752 1041 36 116																	
RA0CG 3.7 74,617 473 27 56																	
UA0WY " 45,653 297 16 55																	
AFRICA																	
ALGERIA																	
*7X2RO A 56,854 248 33 98																	
ASCENSION ISLAND																	
ZD8Z 28 3,794,280 6247 40 170 (Op.: N6TJ)																	
BURKINA FASO																	
XT2HP A 74,693 229 35 78 (Op.: JA10EM)																	
CANARY ISLANDS																	
EA8BH A 25,646,796 10253 176 692 (Op.: NSTJ)																	
EA8AD " 361,179 1142 44 73																	
EARBY 3.7 8,160 71 9 31																	
*EA8IK A 108,438 243 50 136																	
*EA8EI 28 119,357 394 26 93																	
*EA8ES 7R 100,891 506 21 50																	
CEUTA & MELILLA																	
*EA9AR A 674,366 792 68 234																	
*EA9IB 28 471,582 1119 30 112																	
DJIBOUTI																	
J28NH A 53,328 175 39 93																	
EGYPT																	
*SU9ZZ A 4,823,882 3410 106 391																	
ETHIOPIA																	
*VE7SCC A 358,053 971 72 141																	
*VE7XF " 318,562 411 99 199																	
*VE7XO " 224,541 424 63 120																	
*VE7IN 28 310,002 1109 31 99																	
*VE7NN " 140,679 635 24 75																	
*VE7VF " 115,100 418 27 73																	
*VC7C 21 1,395,072 3280 35 138 (Op.: VE7AHA)																	
*VE7NCI " 598,644 1810 33 105																	
*VE7GL " 485,214 1441 36 106																	
*VE7VR " 376,896 935 74 134																	
*VE7XB " 208,527 365 73 140																	
*VE7HA " 20,034 134 29 34																	
*VE7GFS 28 447,501 1549 30 99																	
*VE7CA 21 111,196 2628 35 131 (Op.: IV30WC)																	
*VE7SV 1.8 6,289 185 10 9																	
GHANA																	
9G1MR A 198,186 689 29 73																	
9G5ZW 28 2,060,289 3805 38 151																	
KENYA																	
Z4IIC 28 829,863 1806 36 135																	
LIBERIA																	
EL2WW A 1,767,817 1699 96 265 (Op.: ON4WW)																	
CUBA																	
CO9BKK A 525,515 771 81 224 (Op.: CO2JA)																	
*5A1A 14 165,996 530 23 85																	
LIBYA																	
*RA0WY " 45,653 297 16 55																	

UNITED ARAB EMIRATES		
A61AJ	28	2,177,156 3974 40 162 (Op.: DL2CC)
UZBEKISTAN		
UK9AA	A	3,919,255 2815 128 419
UK8IG	A	253,725 510 52 147
WEST MALAYSIA		
9M2TO	A	1,802,808 1945 120 321
*9M2JI	A	60,393 290 48 75 (Op.: JK1AJX)
EUROPE		
ALAND ISLANDS		
OH0Z	A	6,620,832 4765 146 486 (Op.: OH2MAM)
ALBANIA		
*ZA/S51PF	A	2,156 34 17 32
AUSTRIA		
OE1EMS	A	2,880,598 2494 132 449
OE8CQ	A	485,760 900 76 244
OE1TKW	A	7,104 69 23 51
OE3I	28	569,800 1361 38 147 (Op.: OE1JNB)
OE6Z	14	1,878,569 4150 40 177 (Op.: OE6MBG)
*OE7AJT	A	235,466 490 66 212
*OE1BKA	*	34,452 148 35 81
*OE2S	28	105,925 506 26 69 (Op.: OE2GEN)
*OE3WMW	7	19,053 227 14 59
AZORES		
*CU3AV	A	106,049 370 42 131
BALEARIC ISLANDS		
EA6AEQ	A	759,150 1037 84 266
EA6ZS	A	81,503 299 40 109
*EA6LP	A	371,840 639 85 247
*EA6ZZ	A	116,012 311 58 136
*EA6YW	A	26,112 105 44 58
*EA6VQ	28	69,930 439 17 46 (Op.: EA6VQ)
*EA6XQ	A	37,296 278 22 50
*EA6TC	A	33,726 244 21 56
BELARUS		
EU1KR	A	135,240 420 51 159
EU1PA	*	118,656 429 56 150 (Op.: EU1KR)
KUWAIT		
9K2HN	A	9,330,834 5019 156 531
KYRGYZSTAN		
EX8W	14	913,616 2224 38 141
*EX2T	A	1,265,962 1322 89 284
EX8MIO	28	36,491 161 23 68
*EX8Y	21	287,420 909 33 107
LEBANON		
OD5NJ	A	6,550,950 4707 116 394
OD5	/OK1MU	14 977,394 2106 38 139
MACAO		
XX9TRR	A	4,415,560 3535 154 436 (Op.: OH2PM)
*XX9SC	21	33,062 342 28 53
*XX9AU	*	15,000 200 22 28
MONGOLIA		
JT1CO	A	4,715,064 4718 125 373
*JT1CJ	A	237,241 826 40 91
*JT1JA	"	194,127 546 66 127 (Op.: JT1BG)
*JT1BV	28	175,905 696 28 93
OGASAWARA ISLANDS		
*JD1BIA	A	161,390 1088 47 60
PALESTINE		
E41	/OK1DT	21 1,105,920 2575 37 123
E44DX	3.7	261,590 1017 20 81 (Op.: OH1RY)
SAUDI ARABIA		
HZ1AB	A	7,862,400 5179 122 418 (Op.: DF1IK)
BOSNIA-HERZEGOVINA		
T94MZ	21	271,123 1209 34 103
T94LW	"	214,953 895 34 103
T95A	7	4,633 91 8 33
T99W	3.7	150,920 1218 22 88
*T93R	A	57,276 240 33 78
*T97M	"	37,448 111 46 78
*T98W	"	32,818 155 42 80
*T93Y	28	427,450 1235 36 130
*T92M	"	60,864 277 26 70
*T95MMX	21	1,326 23 8 18
*T94DO	14	92,230 561 25 90
*T91AAW	7	25,853 239 20 83
*T97Y	"	6,650 104 9 41
BULGARIA		
LZ5QZ	A	1,206,771 1805 97 336
LZ1ZD	"	1,033,389 1653 99 324
LZ6A	"	906,105 1305 102 333 (Op.: LZ2EG)
LZ1BJ	"	861,105 1356 98 319
LZ1QV	"	40,703 203 32 69
LZ1BG	"	23,205 88 41 64

