

Results of the 2007 CQ WW DX SSB Contest

BY BOB COX,* K3EST

Expanded CQ WW Contest Results on the Web

A few additional elements of our contest reporting are on the CQ website, including Station Operators of Multi-Op stations and expanded QRM. To view these additional and expanded elements of the 2007 CQ WW SSB results, go to <<http://www.cq-amateur-radio.com>>, then go to Contests and Awards on the home page, then to CQ WW DX Contest, Expanded Results, 2007 CQ WW SSB.



Dave, G4BUO, is always among the top scorers in the contest.

What can you do at the bottom of the sunspot cycle to enliven the ham bands? Take the medicine the propagation doctor orders and enter the CQ WW DX SSB Contest to overcome band conditions. At this time of the cycle, the bands had shown only marginal signs of life for weeks before the contest. The CQ WW SSB Contest changed all that. There was full activity on all bands that were open. The spectrum was filled with activity, putting to good use our allotted frequencies. After all the logs were counted, an amazing number emerged: There were 5040 received entries representing 42,743 calls worked by more than one person from 286 countries! Not only was this a new record in logs received for any contest, but it happened mostly without 10 meters and most of 15 being open! When the sun begins to show improved high-band activity, one can only hope to find a clear spot on any band.

As has been mentioned before, the CQ WW is a fantastic competition which brings out the best in amateur radio—team work, station construction, antenna design, propagation knowledge, and operating skills. Just turn on your radio during the last weekend of October and you can join in the fun. Most entrants are not trying to win for the world or their country. They are just having a good time, and a good time can be guaranteed. Each year a new group of hams discovers the CQ WW. Their comments can be summed up as "What a great time!" Once you jump into the CQ WW QSO ocean, it is impossible not to swim in it for a while. Following is a summary of the results of the 2007 CQ WW SSB. Everyone who enters the contest is a winner. Come join us in the most exciting contesting event of the year. You will be very welcomed.

High Power All Band

The two top places in this tough category went to North American stations, an unusual result. Tom, W2SC, rose to the occasion and talked 8P5A to the world high score. Tom seems to have found the groove, as he has been in this position before. Barbados not only hosted the world cricket championship, but the CQ WW SSB champion. If you check out the Top Scores box, you will see that five of the top ten scores were from North America and three from Canada (VY2ZM, VC3J, and VC3A)! Coming in second in the world was Jeff, K1ZM, operating from his Prince Edward Island QTH as VY2ZM. Third place went to long-time world top ten finisher John, W2GD, as P40W.

European top honors went to CU2A operated by Toni, OH2UA. Working the contest from far southeast + a good station + a great operator = a winning combination. Andy, G4PIQ, operating from M6T took second place Europe. One look at the M6T website will point you in the direction of what a great winning station looks like. Third place in Europe went to the Montenegro station of Ranko,

4O3A, founder of SKY Contest Club. In the U.S., Randy, K5ZD, did his usual fabulous job and took top honors. Last year's winner took second position. NN3W, Richard, operated from the N3HBX super station located in southwestern Maryland. Third place went to Doug, K1DG, operating from N1LI.

The continental winners were: North America 8P5A (W2SC), Africa EA9LZ, Asia RG9A (UA9AM), Europe CU2A (OH2UA), Oceania KH6LC, South America P40W (W2GD), Japan JH4UYB, and U.S. K5ZD/1.

Low Power All Band

The CQ WW is famous for hams going on DXpeditions. You can even put a series of vertical antennas in a golf bag, find a beach somewhere, and get ready for fun. A small transceiver and you are all set. If you choose the right QTH, you can run stations almost as fast as the higher powered stations.

John, KK9A, sure has found the right formula. Operating from the northwest tip of Aruba, John again took the top world low power trophy. Three years in a row is quite an achievement, John! Second place in the world and #1 in Asia was TA3D. Great job, Yasar! Third place went to Ted, HI3TEJ, using his contest call, HI3T. Ted is a perennial top finisher.

CT6A operated by Jose, CT1CJJ, again was first place in Europe. This is the third year in a row that José took the plaque. Congratulations, José! Second place went to Lorenzo, IZ2FOS, operating not far from Lago di Garda. Third place in Europe went to Stefan, OM3CD. In the U.S., we had a new winner, Art, K1BX. He sure has the credentials in terms of operating experience: K6UA,

Yasar, TA3D, grabbed #2 world Low Power All Band.



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Joseph, F6CTT, #1 Europe 3.7 MHz.

N6CW, DL0WW, and W0AIH! Second place went out to Ed, N1UR, who finishes first or near the top almost every time. Again third place went to Marvin, N5AW, from Texas, where he puts his considerable skills to work. A45WD, HZ1GW, UP0L, 9N7JO, A61HH, HS0ZDG, ZC4LI, 5B/HA5PP, ZP0R, XE1CQ, and CN2BC all did an excellent job to finish with outstanding scores from interesting locations.

The continental winners were: North America HI3T, Africa CN2BC, Asia TA3D, Europe CT6A (CT1CJJ), Oceania 9M5LSC (JF1SQC), South America P40A (KK9A), Japan JA7LMZ, and U.S. K1BX.

QRP

The CQ WW offers QRPers a very good opportunity to work rare DX that would otherwise prove elusive. This category sharpens your searching skills and the rewards



Doug, KR2Q, finished #1 in the U.S. QRP, and #2 world.

are very satisfying. Our world winner this time was IK5RUN. Simone lives near Florence and dreams of finishing at the top of the QRP category. Dreams do come true, Simone! A great job from a dedicated QRPer. The battle for second and third place in the world came down to about one QSO. Taking second place in the world and first place in the U.S. was Doug, KR2Q. Chris, KA1LMR, was just barely behind to take third place world and second place U.S. It looks like a real healthy rivalry in the making. The third spot in the U.S. and the top zone 4 score went to Philip, N0KE. He also finished #6 in the world.

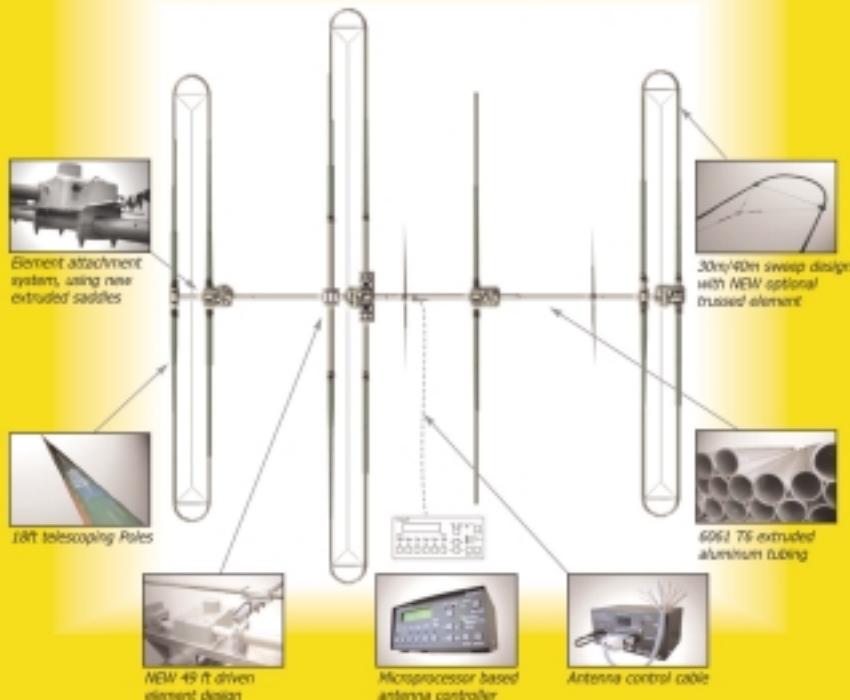
Second place in Europe went to Bob, M3RCV. What a great score from a really dedicated ham. Bob was and still is one of the world's best SWLers as BRS 32525. From the SWL ranks many a great contesteer has sprung. Third place in Europe went to S59D.

Special mention must be made of the fine score of Izuno-san, JR4DAH, #10 in the world and #1 in Asia. The top zone 3 scorer was W6QU operated by QRP aficionado, Bill, W8QZA. 5Z4/YT1CS, YB2OK, and PY2BN are to be congratulated for their outstanding efforts.

The continental winners were: North America KR2Q, Africa 5Z4/YT1CS, Asia

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Weight	180 lb / 72.8 kg
Wind load	17.5 sq ft / 1.63 sq m
Longest element	48 ft / 15.1 m
Turning radius	26 ft / 8.0 m
Boom length	35' 10" ft / 11.1 m
Mast damp (incl.)	2.0 in / 5.08 cm
Rover rating	3 KW
Wind rating	100 mph EIA-222-C
Frequency coverage	***3.4 MHz - 54 MHz
Cable requirements	16 conductor 22 gauge shielded
Tuning rate	1.33 ft/sec - .4 m/sec

Performance		
Band	dBi Gain	F/R dB
80m	1.35	76/A
40m	7.2	23
30m	8.2	18
20m	9.27	21.5
17m	9.88	26.5
15m	10.21	27.1
12m	10.43	21.1
10m	10.65	11.0
6m	4.01(12.75)	1.79(27.4)

* Sketch shown with optional 6m passive kit

* Gain and F/R measured in free space

* with optional 4m passive element kit

** with 80m - 40m optional dipole

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TROPHY WINNERS AND DONORS

SINGLE OPERATOR	World – 7 MHz	Africa
World All Band 8P5A (Opr.: Tom Georgens, W2SC) Donor: Southern California DX Club	Andreas Kretzschmar, 9Y4W Donor: Fred Laun, K3ZO – K7ZZ Memorial	CQ3T (Oprs.: CT3CD, CT3CK, CT3FQ, CT3HF, CT3HV, CT3KN)* Donor: Doc Sayre, W7EW
World Low Power P40A (Opr.: John Bayne, KK9A) Donor: Slovenian Contest Club	World – 3.7 MHz Gia Gvaladze, 4L4WW Donor: Fred Capossela, K6SSS	Asia P33W (Oprs.: RX9TL, UA2FZ, RA1AIP, RW4WR, RW3QC, RA3AUU) Donor: Edward L. Campbell, NT4TT AA6BB and KA6V Memorial
World QRP Simone Sarti, IK5RUN Donor: Jeff Steinman, N5TJ	World – 1.8 MHz CN2R (Opr.: James Sullivan, W7EJ) Donor: Robert Wruble, W7GG	Japan JA6ZPR (Oprs.: JJ1RJR, JR6CKX, JH6JSR) Donor: Bob Epstein, K8IA
World Assisted Ilshat Valitov, RU9WX Donor: Glenn Johnson, W0GJ	USA – 28 MHz Charles Dietz, W5PR Donor: Donald Thomas, N6DT	Europe 9A1P (Oprs.: 9A1UN, 9A2RD, 9A2CW, 9A3ASF, 9A4M, 9A5CW, S59KW, S55M) Donor: Bob Cox, K3EST
U.S.A. Randy Thompson, K5ZD Donor: Potomac Valley R.C. – KC8C Memorial	USA – 21 MHz Peter Bielewicz, KU2M Donor: CQ Magazine	Oceania AH2R (Oprs.: JJ3ERV, JR7OMD, JJ3RPL, JO1DFG, JH7QXJ) Donor: Junichi Tanaka, JH4RHF
U.S.A. Low Power Arthur Hambleton, K1BX Donor: North Coast Contesters	USA – 14 MHz Saul M. Abrams, K2XA Donor: Yankee Clipper Contest Club KC1F Memorial	South America FY5YE (Oprs.: F1HAR, F5HRY, F5MZN, F6FGZ, F6FVY, FY5FY) Donor: Victor Burns, K16IM – The Cuba Libra Contest Club
U.S.A. QRQ Doug Zwiebel, KR2Q Donor: Pat Collins, N8VW	USA – 7 MHz Paul H. Newberry, Jr, N4PN Donor: Stanley Cohen, W8QDQ	MULTI-OPERATOR, TWO TRANSMITTERS World
U.S.A. Assisted Rich Saeger, K3OO Donor: John Rodgers, WE3C	USA – 3.7 MHz Joseph Gagliardi, Jr, AA1BU Donor: CQ magazine	AO8A (Oprs.: EA8AH, EA8CAC, EA8ZS, ES2RR, OH5XT, OH6XX, OH9MM) Donor: Array Solutions
U.S.A. Zone 3 Mitch Mason, K7RL Donor: Dave Pruitt, K8CC & Greg Surma, K8GL	USA – 1.8 MHz Yuri Blanarovich, K3BU Donor: Glenn Johnson, W0GJ	U.S.A. WE3C (Oprs.: WE3C, NN3Q, KQ3V, NM3E, N3FTI) Donor: Kimo Chun, KH7U & Mike Gibson, KH6ND Dan Robbins, KL7Y Memorial
U.S.A. Zone 4 Mike Wetzel, W9RE Donor: Dave Pruitt, K8CC & Greg Surma, K8GL	Carib./C.A. (21 MHz) ZF2AH (Opr.: Joseph Hypnarowski, W6VNR) Donor: Nate Moreschi, N4YDU	Europe IR4X (Oprs.: I4TJE, I4VEQ, I4EAT, I4AVG, I4IND, I4IKW, I4EWL, I4EKW, I4KDCD, I4BOY, IZ3EYZ) Donor: Aki Nagi, JA5DQH
Canada VY2ZM (Opr.: Jeffrey Briggs, K1ZM) Donor: Contest Club Ontario VE3WT Memorial	Europe – 28 MHz Meho Omberbasic, T93O Donor: Charles Dietz, W5PR	Oceania AH6XX (Oprs.: AH7C, JA1BK, K1ER, K2WR) Donor: Japan CQ Ham Radio
Caribbean/C.A. Paul Young, FS/K1XM Donor: Alex M. Kasevich, VP2MM	Europe – 21 MHz YT0Z (Opr.: Milan Milovanovic, YU1ZZ) Donor: Tine Brajnik, S50A	MULTI-OPERATOR, MULTI-TRANSMITTER World
Europe CU2A (Opr.: Toni Linden, OH2UA) Donor: Potomac Valley R.C. – W4BVV Memorial	Europe – 14 MHz Ivo Jereb, S57AL Donor: Charles Wooten, NF4A	TS6A (Oprs.: YT1AD, YT3W, YU1AU, YU1DW, YU1EW, YU1KX, YZ1BX, K1LZ, N2OW, Alea, Lotfi) Donor: Dave, W6NL and Barb, K6BL Leeson
Europe Low Power CT6A (Opr.: Jose Manuel Farto Lopes, CT1CJJ) Donor: Scott Jones, N3RA & Tim Duffy, K3LR	Europe – 7 MHz Vinko Gregorcic, S53F Donor: John Warren, NT5C	U.S.A. K3LR (Oprs.: K3LR, N2NC, K8CX, W9ZRX, N9RV, W2RQ, K14MTU, K1AR, N2NT, N3SD, K3UA, KL9A, N3GJ, LU7DW) Donor: Jim Lawson, W2PV Memorial
Russia RG9A (Opr.: Yuri Kurinyi, UA9AM) Donor: Roman Thomas, RZ3AA	Europe – 3.7 MHz Joseph Cornee, F6CTT Donor: Ted Demopoulos, KT1V	Europe DR1A (Oprs.: DB6JG, DF6JC, DF7ZS, DH1NFL, DJ6ET, DJ7EG, DJ7EO, DK9VZ, DL1MFL, DL2YOU, DL3DXX, DL6FBL, DL6LAU, DL8WPX, DL9NDV, JK3GAD) Donor: Finnish Amateur Radio League
Africa 6W1RY (Opr.: Albert Crespo, F5VHJ) Donor: Gordon Marshall, W6RR	Europe – 1.8 MHz SN3R (Opr.: Wieslaw Gebal, SP6HEQ) Donor: Robert Kasca, S53R	Japan JR5VHU (Oprs.: JR5VHU, JR5JAQ, JH5FIS, JH5FXP, JH5RXS, JA5JCC, JA5FDJ, JA5FBZ, JM1UWB) Donor: Ryozo Goto, JH3JYS
Asia Yasar Goçet, TA3D Donor: 2 AM Dayton Pizza Gang	Oceania (21 MHz) 9M8YY (Opr.: Yasumasa Yagi, JR3WXA) Donor: Bruce D. Lee, KD6WW	CONTEST EXPEDITIONS World Single Operator
Japan Masaki Masa Okano, JH4UYB Donor: Tack Kumagai, JE1CKA	Asia – 14 MHz Vakhtang Mumladze, 4L6AM Donor: Charles Shinn, W7MAP	HV500VR (Opr.: Carl Cook, AI6V) Donor: National Capitol DX Assn. Stuart Meyer, W2GHK Memorial
Japan Low Power Fumi Konno, JA7LMZ Donor: Western Washington DX Club	Japan – 21 MHz Toshohiko Kamimiyata, 7K4XNN Donor: CQ Magazine	World Multi-Single
Oceania Lloyd Cabral, KH6LC Donor: Northern California DX Club	Japan – 14 MHz Hiroyuki Inaba, JS3CTQ Donor: Take Yokoyama, JL1BLW	IF9A (Opr.: IT9ATF, IT9NPZ, IT9PPG, IT9WDC) Donor: Gail Schieber, K2RED
South America P40W (Opr.: John Crovelli, W2GD) Donor: Yankee Clipper Contest Club	MULTI-OPERATOR, SINGLE TRANSMITTER World	World Multi-Multi
SINGLE OPERATOR, SINGLE BAND	CN3A (Oprs.: K2QE1, IK2SGC, I2WIJ, IZ2FFK, Y03JR, IK2EAD, IK2BCP, CN8WW) Donor: So. Calif. DX Club – W6AM Memorial	1A3A (Oprs.: C31CT, CT1DVV, CT1ESV, I4UFH, IK2NCJ, IK8UND, IV3SKB, IZ4AKS, IZ4DPV, IZ8CCW, IZ8FWN, YL2KL) Donor: Tachio Yuasa, JA9VDA
World – 28 MHz Juan Manuel Morandi, LU1HF Donor: Joel Chalmers, KG6DX	U.S.A. K9RS/3 (Oprs.: NO2R, N3DXX, K9RS) Donor: Carolina DX Association	*Second place
World – 21 MHz ZX5J (Opr.: Sergio Almeida, PP5JR) Donor: Robert Naumann, W5OV	Carib./C.A. VP5DX (Oprs.: N4KE, W1WON, NU4Y) Donor: Bob Raymond, WA1Z	
World – 14 MHz CN4P (Opr.: M'Hamed Kharbouche, CN8NK) Donor: North Jersey DX Assn. – K2HLB Memorial		

JR4DAH, Europe IK5RUN, Oceania YB2OK, South America PY2BN, Japan JR4DAH, and U.S. KR2Q.

Assisted

If you want to increase your WPX and DXCC totals and have limited operating time or just want to help your club, the assisted category might be for you. The 2008 Assisted category will be interesting with availability of the skimmer or a skimmer-like tool. Use of this QSO spotting tool places you in the Assisted category. This will be the first time this new technology will be available in the CQ WW. You can help us develop a baseline for what a skimmer log looks like by joining the CQ WW skimmer project at <questions@cqww.com>. Let us know if you use this software in the 2008 CQ WW contests and what you thought of its usefulness under contest conditions. Thanks for helping out.

The number one Assisted score in the world came from Ilshat, RU9WX. Taking advantage of his location in Asia very near Europe, he racked up the largest total score in this category. World second place and the top European spot went to Serge, UT5UDX, operating from ER0WW. Third place world and second place Europe was taken by Andy, UU7J. Reprising the 2006 results, third place in Europe went to Philippe, LX2A, operating with his contest call LX7I. Mike, operating as FM/K9NW, must be mentioned as doing an outstanding job from a 2-point area. In the U.S., the Frankford Radio Club contestants took top honors. Rick, K3OO, won first place. He really made the difference in the QSO department. Second place went to perennial top finisher Charles, K3WW, while third place went to a Noah, K2NG. Special mention should be made of the great job turned in by: B7M, VR10XLN, JT1CO, V8FEO, NH0DX/KH2, ZL1BYZ, ZL3A, and CE4CT. Their enthusiasm gave many contestants the chance to work areas with limited activity.

The continental winners were: North America FM/K9NW, Africa 6W1SE, Asia RU9WX, Europe ER0WW, Oceania V8FEO (9M6DXX), South America LR2F, Japan JQ1BVI, and U.S. K3OO.

Multi-Single

The Multi-Single category attracts the second largest group of individual contestants after low power. Usually about 1300 people take part worldwide. Getting together with new and old friends for a weekend of Formula 1 contest racing is what it is all about. The rush to find competitive locations in zone 33 also includes the Multi-Single category. Competition in this hotly contested category has always been fierce.

The winners from 2006 switched places in the 2007 competition. Perhaps positioning themselves for the hopefully soon to arrive new sunspot cycle, a multi-national team allowed CN3A to take world first place. What a great job they did. Less than 400,000 points behind the 2006 winner, the all French team operating as FY5YE on the French Guyana coast. Third place went to the

Russian team on Cyprus using the call P33W. They were also #1 in Asia.

Multi-Single is very competitive within Europe. This year it was an all Croatian finish. The number one score went to Radio Club Porec, 9A1P. Second place went to the Varazdin Contest Team, 9A7A; what an antenna farm can be seen on its website. Third place in Europe went to the Croatian DX Club, 9A1A, located on a mountain ridge east of Zagreb. Here in the U.S., Ray's team at K9RS/3 led the way from eastern Pennsylvania. Second place was taken by

team W3UA/1 located in lovely New Hampshire. As Gene says on his website, his call, W3UA, reminds him of his roots as a UA3. Third place went to Tom, K8AZ, located in the countryside of northeastern Ohio. Congratulations to AH2R. They continue to do an outstanding job from zone 27, and JA6ZPR was the top Multi-Single in Japan. Outstanding performances were turned in by many teams. Some of the rarer ones appearing in many logs were VQ9X, XU7MDY, B4R, BA4T, A71BX, 9K2HN, and ZM4A.

The continental winners were: North



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Multi-Two

Multi-Two is almost as much work as Multi-Multi. You need to have two stations manned all the time and move them correctly as the propagation changes. Doing this smoothly takes a skilled crew. AO8A was such a crew. The EA8, OH, and ES team members fin-

ished #1 in the world. Traveling down to HC8N finds the QTH of the world's #2 score. The HC8N QTH has always finished at the top or just after it. Finishing just a few QSOs behind was the all Slovakian team of C50C. It was a very nice to see their entry in the MM category. First place in Europe went to long-time top finisher IR4X. They have been having a good time on a mountaintop in central Italy for a very long time. Second place in Europe went to T93J. Their signal sure was booming into the U.S. It was also very nice to see T70A take third place in Europe. WE3C's station in eastern Pennsylvania has

TOP SCORES

WORLD		UNITED STATES		EUROPE	
SINGLE OPERATOR		SINGLE OPERATOR		SINGLE OPERATOR	
ALL BAND		ALL BAND		ALL BAND	
8P5A.....	11,963,439	KI3K.....	555,660	K3LR.....	16,925,727
VY2ZM.....	9,571,348	KO8LY.....	499,072	KC1XX.....	16,330,230
P40W.....	8,447,550	UX0FF.....	442,336	DR1A.....	16,111,326
CU2A.....	7,556,754	9N7JO.....	830,825	N1NK.....	112,100
VC3J.....	7,361,332	T99W.....	696,608	K5FP.....	106,148
P40PA.....	6,535,684	HC1JQ.....	566,370	N4IJ5.....	103,912
K5ZD/1.....	6,200,384	LZ9X.....	531,690	K4SQR.....	82,080
VC3A.....	6,160,480	9A3B.....	508,698	S50A.....	5,129,305
M6T.....	6,149,240	A06DD.....	440,564	T93M.....	4,750,070
PZ5XX.....	5,876,735	9A4KR.....	4,481,695	MI0LLL.....	4,656,816
28 MHz		GW4BLE.....	3,989,718	IQ8OM.....	394,267
LU1HF.....	675,610	OF8X.....	3,698,400	EA7TN.....	357,700
ZW5B.....	533,006	7 MHz		7 MHz	
LR4E.....	429,142	T93O.....	189,588	UZ7M.....	298,197
YM2W.....	383,990	I2ZJF.....	171,360	T99D.....	208,361
PP5AMP.....	379,154	G0AEV.....	120,119	I23FJ.....	183,680
PY2YU.....	366,080	H13CCP.....	164,400	S57S.....	97,328
21 MHz		SO6V.....	142,440	CU2AF.....	50,150
ZX5J.....	2,265,642	28 MHz		ES7GM.....	96,459
4X2M.....	1,230,438	UZ7M.....	298,197	IT9YVO.....	26,432
P43A.....	1,086,075	WP3C.....	274,281	3.7 MHz	
ZF2AH.....	805,250	T99D.....	208,361	YU0U.....	81,810
YT0Z.....	811,944	I2ZJF.....	183,680	Y05KDX.....	70,798
ZC4LI.....	795,417	H13CCP.....	164,400	E7/DK6XZ.....	73,2540
14 MHz		SO6V.....	142,440	YU7W.....	68,338
CN4P.....	1,939,653	21 MHz		9A4W.....	142,440
9Y4D.....	1,506,832	UA9BA.....	88,400	W4EEH.....	35,020
IG9R.....	1,416,354	YU0U.....	81,810	WA0KDS/7.....	16,900
4L6AM.....	1,363,154	Y05KDX.....	70,798	KE2SD.....	5,658
S57AL.....	1,156,869	YT8T.....	67,284	NR8U.....	1,050
CT1JLZ.....	1,145,700	YU7W.....	68,338	21 MHz	
7 MHz		LZ2JA.....	65,040	YU0U.....	81,810
YM0T.....	125,658	28 MHz		Y05KDX.....	70,798
IO1T.....	85,262	KU2M/3.....	693,680	E7/DK6XZ.....	73,2540
4L2M.....	65,067	N4BP.....	327,168	YU7W.....	68,338
4O/DD5FZ.....	45,360	N5ZK.....	122,570	9A4W.....	142,440
SP4XQN.....	43,026	KC7V.....	66,123	W4EEH.....	35,020
UA2FT.....	28,917	W6SR.....	48,060	WA0KDS/7.....	16,900
3.7 MHz		K17DG.....	2,624	KE2SD.....	5,658
YM0T.....	125,658	3.7 MHz		NR8U.....	1,050
IO1T.....	85,262	K2YEH.....	18,881	21 MHz	
4L2M.....	65,067	K8DO.....	14,674	YU0U.....	81,810
4O/DD5FZ.....	45,360	KU4BP.....	3,096	Y05KDX.....	70,798
SP4XQN.....	43,026	WA6WPG.....	624	E7/DK6XZ.....	73,2540
UA2FT.....	28,917	21 MHz		YU7W.....	68,338
1.8 MHz		K2XA.....	749,760	9A4W.....	142,440
YM0T.....	125,658	W6QU.....	104,958	W4EEH.....	35,020
IO1T.....	85,262	K8ZT.....	103,713	WA0KDS/7.....	16,900
4L2M.....	65,067	KB3TS.....	102,884	KE2SD.....	5,658
4O/DD5FZ.....	45,360	KR2Q.....	385,528	NR8U.....	1,050
SP4XQN.....	43,026	KA1LMR.....	384,780	3.7 MHz	
UA2FT.....	28,917	N0KE.....	256,520	YU0U.....	81,810
QRP		N1TM.....	111,370	Y05KDX.....	70,798
ALL BAND		W6QU.....	104,958	E7/DK6XZ.....	73,2540
9Y4W.....	906,696	K8ZT.....	103,713	YU7W.....	68,338
S55F.....	847,134	KB3TS.....	102,884	9A4W.....	142,440
EA8/OH4NL.....	772,412	KR2Q.....	385,528	W4EEH.....	35,020
OK5R.....	752,669	KA1LMR.....	384,780	WA0KDS/7.....	16,900
YT8A.....	575,688	N0KE.....	256,520	KE2SD.....	5,658
S57AL.....	452,751	N1TM.....	111,370	NR8U.....	1,050
CT1JLZ.....	452,751	W6QU.....	104,958	14 MHz	
7 MHz		K8ZT.....	103,713	YU0U.....	81,810
IK5RUN.....	404,878	KB3TS.....	102,884	Y05KDX.....	70,798
M3RCV.....	381,888	KR2Q.....	385,528	E7/DK6XZ.....	73,2540
S59D.....	291,332	KA1LMR.....	384,780	YU7W.....	68,338
N6AN.....	256,520	N0KE.....	256,520	9A4W.....	142,440
RX1CQ.....	253,044	N1TM.....	111,370	W4EEH.....	35,020
W9NY.....	213,486	W6QU.....	104,958	WA0KDS/7.....	16,900
QRP		K8ZT.....	103,713	KE2SD.....	5,658
ALL BAND		KB3TS.....	102,884	NR8U.....	1,050
YU0U.....	213,486	KR2Q.....	385,528	7 MHz	
Y03APJ.....	192,185	KA1LMR.....	384,780	YU0U.....	81,810
EA1GT.....	160,752	N0KE.....	256,520	Y05KDX.....	70,798
7 MHz		N1TM.....	111,370	E7/DK6XZ.....	73,2540
ER0WW.....	6,682,662	W6QU.....	104,958	YU7W.....	68,338
UU7J.....	6,669,255	K8ZT.....	103,713	9A4W.....	142,440
LX71.....	5,601,466	KB3TS.....	102,884	W4EEH.....	35,020
UT7QF.....	4,755,642	KR2Q.....	385,528	WA0KDS/7.....	16,900
DK1MM.....	4,435,480	KA1LMR.....	384,780	KE2SD.....	5,658
S57M.....	98,296	N0KE.....	256,520	NR8U.....	1,050
DF2UU.....	52,041	N1TM.....	111,370	3.7 MHz	
YO5OEF.....	40,880	W6QU.....	104,958	YU0U.....	81,810
1.8 MHz		K8ZT.....	103,713	Y05KDX.....	70,798
ER0WW.....	6,682,662	KB3TS.....	102,884	E7/DK6XZ.....	73,2540
UU7J.....	6,669,255	KR2Q.....	385,528	YU7W.....	68,338
LX71.....	5,601,466	KA1LMR.....	384,780	9A4W.....	142,440
UT7QF.....	4,755,642	N0KE.....	256,520	W4EEH.....	35,020
DK1MM.....	4,435,480	N1TM.....	111,370	WA0KDS/7.....	16,900
S57M.....	98,296	W6QU.....	104,958	KE2SD.....	5,658
DF2UU.....	52,041	K8ZT.....	103,713	NR8U.....	1,050
YO5OEF.....	40,880	KB3TS.....	102,884	1.8 MHz	
LOW POWER		KR2Q.....	385,528	YU0U.....	81,810
ALL BAND		K3BU/8.....	37,179	Y05KDX.....	70,798
F93J.....	10,662,225	W2VO.....	7,425	E7/DK6XZ.....	73,2540
IR4X.....	15,502,044	A44MM.....	4,653	YU7W.....	68,338
SP3LWP.....	54,720	N6IG.....	2,220	9A4W.....	142,440
DH8BQA.....	54,004	WW2DX.....	2,210	W4EEH.....	35,020
EA6DX.....	53,406	K4ADR.....	1,740	WA0KDS/7.....	16,900
LZ1NG.....	48,149	LOW POWER		KE2SD.....	5,658
UR5FEL.....	1,001,728	ALL BAND		NR8U.....	1,050
MULTI-OPERATOR		CT6A.....	2,291,170	1.8 MHz	
TWO TRANSMITTER		I2ZFOS.....	2,108,160	YU0U.....	81,810
ALL BAND		OM5CD.....	1,671,056	Y05KDX.....	70,798
MULTI-OPERATOR		F4BKV.....	1,568,043	E7/DK6XZ.....	73,2540
TWO TRANSMITTER		LY9A.....	1,499,496	YU7W.....	68,338
ALL BAND		IS0/K7QB.....	1,443,520	9A4W.....	142,440
MULTI-OPERATOR		G4BUO.....	1,329,525	W4EEH.....	35,020
MULTI-TRANSMITTER		S51F.....	1,158,968	WA0KDS/7.....	16,900
ALL BAND		Y03FRI.....	1,091,222	KE2SD.....	5,658
MULTI-OPERATOR		UR5FEL.....	1,001,728	NR8U.....	1,050
MULTI-TRANSMITTER		28 MHz		21 MHz	
ALL BAND		IW0HBY.....	87,344	YU0U.....	81,810
MULTI-OPERATOR		LZ1ND.....	82,418	Y05KDX.....	70,798
MULTI-TRANSMITTER		IR4X.....	15,502,044	E7/DK6XZ.....	73,2540
ALL BAND		SP3LWP.....	54,720	YU7W.....	68,338
MULTI-OPERATOR		DH8BQA.....	54,004	9A4W.....	142,440
MULTI-TRANSMITTER		EA6DX.....	53,406	W4EEH.....	35,020
ALL BAND		LZ1NG.....	48,149	WA0KDS/7.....	16,900
MULTI-OPERATOR		W3PP.....	5,391,372	KE2SD.....	5,658
MULTI-TRANSMITTER		UX0FF.....	442,336	NR8U.....	1,050
ALL BAND		4N7N.....	400,225	14 MHz	
MULTI-OPERATOR		OM5XX.....	247,500	YU0U.....	81,810
MULTI-TRANSMITTER		EH7R.....	239,444	Y05KDX.....	70,798
ALL BAND		RA6YY.....	201,465	E7/DK6XZ.....	73,2540
MULTI-OPERATOR		SO9L.....	189,696	YU7W.....	68,338
MULTI-TRANSMITTER		CU2A.....	7,556,754	9A4W.....	142,440
ALL BAND		M6T.....	6,149,240	W4EEH.....	35,020
MULTI-OPERATOR		4O3A.....	5,825,955	WA0KDS/7.....	16,900
MULTI-TRANSMITTER		ES5TV.....	5,564,372	KE2SD.....	5,658
ALL BAND		T99W.....	696,608	NR8U.....	1,050

Accurate Measurements. No Excuses!

Professionally Engineered
Cross Needle Meters

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



NEW! POWER SUPPLY

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

- 30 amps continuous, 33 amp peak
- Dual meters
- Adjustable voltage (5-15V)
- Built-in fan
- Weighs less than 5 lbs.
- Carrying handle



NEW! POWER SUPPLY

SS-505 Lightweight switching power supply.

- 50 amp continuous, 55 amp peak
- Adjustable voltage, 5-15V
- Can be used for DC motors requiring peak start-up voltage
- Dual-use V/A meter
- Built-in fan
- Weight: 8lbs 6 oz
- Carrying handle



COAX SWITCHES

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

CS-201

- 2-position 600MHz switch
- Max. power: 2.5kW PEP/1kW CW
- Conns: SO-239

CS-201GII

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



ECONOMY SERIES

Accurate and dependable bench meters at an economy price. Lighted, 13.8VDC jack on rear panel. 6'1 x 3'h x 4"d (approx.)

CN-101

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

CN-103M

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

CN-103N

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



PROFESSIONAL SERIES

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

CN-801HP

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

CN-801V

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

NEW! CN-801G D-STAR

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



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Vinko, S53F, finished #1 Europe 7 MHz, #2 world.

made a big splash. We think we will hear a lot more from WE3C. Second place went to the Rhode Island powerhouse of KI1G. Third place in the U.S. again went to the central Virginia team at W4RM. There were several stations that put rare multipliers on the air and made big scores: 3DA0WW, EK0B, B4B, B3C, VR2C, P3F, and 4X0C. Good job.

The continental winners were: North America WE3C, Africa AO8A, Asia P3F, Europe IR4X, Oceania AH6XX, South America HC8N, Japan JA1YPA, and U.S. WE3C.

Multi-Multi

Entering the Multi-Multi category is always a challenge. Finding a suitable place to set up a fully integrated MM is no easy task. Months of planning the station site, gathering operators together, and waiting to see what nature deals you makes for a combination of satisfaction and excitement.

The world top position in this difficult category went to TS6A. Stepping up from last year's M2 effort to MM was successfully accomplished by this fine team. Several of the team's members have

put 3V on the air before, and they put their knowledge to good use. Another zone 33 station, CQ9K, put up a very big score to take second place world. A lot of hard work, months and months of planning, paid off. The sixteen operators included ten CT3s! Their location overlooking the ocean sure helped their fine effort. Finishing in the third position in the world was perennial North American champion V26B. What a great job this long-running competitor always puts together.

The battle of the MM super stations in the U.S. is always push, push, and push some more. Tim's crew at K3LR again broke into the world top ten as #4. The competition in the U.S. for MM is really a fierce, friendly fight. K3LR made all the right moves and that was enough to edge out KC1XX and take the U.S. Multi-Multi crown. In second place was Matt's team, KC1XX, in southern New Hampshire, and in third place was Frank's crew, W3LPL, in central Maryland.

The German team at DR1A again talked their way to the number one position in Europe. What a splendid effort they always put in. The competition between DR1A and DF0HQ is a real fight. Second place



Stig, 9N7JO, came in #1 world 14 MHz.

TOP SCORES IN MOST ACTIVE ZONES

ZONE 3	K1TO/4.....2,771,835	RG3K	2,004,367
K7RL.....1,650,724	N2LT.....2,569,716	RS3A.....1,950,984	
K6NA.....1,193,959	K3ZO.....2,441,664	UA4FER.....1,720,251	
K5RR/7.....1,107,645		RN4AA.....1,373,982	
K6XX.....871,500		RN3ZC.....1,339,104	
W6PH.....782,000	CU2A7,556,754	*UR5FEL.....1,001,728	
W7WA.....733,894	M6T6,149,240	*RV6LFE.....826,896	
WA7LT.....513,360	M10LLL.....4,656,816		
N7DD.....492,466	EA4KR4,481,695		
VE7SZ.....481,217	GW4BLE3,989,718		
N7TT.....417,196	GM7V3,630,468		
ZONE 4	DJ8OG3,572,475	SV9GPV.....2,120,560	
W9RE.....3,055,964	EA4KD3,359,840	YR1C1,422,672	
K5TR.....2,864,180	DJ4PT3,015,408	4X2M.....1,230,438	
N2IC/5.....2,712,103	ON9CMV.....2,994,176	*YO3FRI.....1,091,222	
K0KX.....1,346,345		LZ5A894,250	
K0SR.....1,114,990	4O3A.....5,825,955	*YO3CZW816,928	
*N5AW.....1,094,904	ES5TV.....5,564,372	*LZ9X531,690	
N8B1.....1,042,389	S50A.....5,129,305	YM2W383,990	
N4TZ/9.....1,058,293	T93M.....4,750,070		
WD5K.....1,008,000	OF8X.....3,698,400	ZONE 25	
W8MJ.....1,042,389	SO6X.....2,576,146	JH4UYB2,585,024	
ZONE 5	II4A.....2,227,350	JF2QNM.....1,040,514	
K5ZD/1.....6,200,384	IZ2FOS2,108,160	JA2PAC1,007,760	
NN3W.....5,378,268	LY9Y1,971,327	JA7NVF818,496	
N1LI.....4,883,592	OF4R1,874,740	JI2KXK599,297	
K4ZW.....4,715,200		JR3NZC488,128	
K3CR.....3,903,200	RW1AC3,590,958	JS3CTQ464,677	
W3BGN.....3,309,021	UT5UGR2,806,695	JA1ELY463,710	
AA1K/3.....3,095,859	US5D2,132,268	JF1LFX460,965	
		JR7WAB451,470	
		*Low Power	

in Europe was taken by the well-known club station of DF0HQ. Third place in Europe went to the French team operating from TM6M.

The Chinese teams of B7P and B1Z made a big effort which allowed many contestants to log a new one. The mountaintop QTH of JR5VHU showed its muscle by taking first in Japan, edging out JA3YBK. Over in Europe, 1A3A was a new one for thousands. This was the first activation of the Sovereign Order of Malta in the CQ WW.

The continental winners were: North America V26B, Africa TS6A, Asia JR5VHU, Europe DR1A, Oceania KH7X, South America YV4A, Japan JR5VHU, and U.S. K3LR.

New Records

Take a look at the record list at the CQWW.com site. You might find that you have a chance to take on the personal challenge of going for a new record. If you discover an error in the record list, please document it and let us know at <questions@cqww.com>. Below are the outstanding efforts of super operators which resulted in setting new SSB records during the 2007 contest. Congratulations to all!

World: L1.8 YM0T (TA2RC); Q7 KP4KE; A3.7 OM5M; A7 ZL3A. **North America:** Q7 KP4KE; A7 FM5FJ. **Africa:** None. **Asia:** 3.7 4L4WW; LA TA3D; L14 9N7JO (LA7JO); L1.8 YM0T (TA2RC); Q7 4XUU4JKY; A7 RW9USA; A1.8 RN9AA; M2 P3F. **Europe:** 3.7 F6CTT; 1.8 SN3R; L7 UZ7M; L1.8 IO1T; A3.7 OM5M. **Oceania:** 3.7 KH7B (K4XS); A7 ZL3A. **Japan:** 3.7 JH1OGC. **U.S.:** A7 NX5M

Team Contesting

Five contestants from anywhere in the world can join together to form a team. The number 1 team was aptly named Widespread Panic—probably panicked about the conditions, but not to worry, as the CQWW creates its own propagation. Four-fifths of the team was from North America. Second place went to the LU Contest Group. They really had an international team. Third place went to the boys from Finland operating as Contest Club Finland, Team Mannerheim. Besides sending a FAX (516-681-2926) or snail mail to CQ, you can submit your team list to <teams@cqww.com>. You will receive an acknowledgement.

1. Widespread Panic: P40PA (W4PA), 8P5A (W2SC), VY2ZM (K1ZM), FM/K9NW, K4ZW, **39,408,521.**

2. LUCG #1: P40W (W2GD), KG6DX, LT1F (LU1FAM), LR2F (LU5DX), CX6VM, **22,834,241.**

Peter, K2PS, was the top Low Power All Band entrant from 2-land.



Jerry, WB9Z, always does well in the CQ WW contest.



3. Contest Club Finland, Team Mannerheim: PZ5XX (OH0XX), OF4R (OH4JFN), OF6NIO (OH6NIO), OF8X (OH6UM), CU2A (OH2UA), **20,374,312.**

4. Carolina DX Association: AA4S, KZ2I/4, N4PQX, W3OA/4, W4WTB, **7,656,542.**

5. KTU RC: LY1R, LY4T, LY6A, LY9A, **3,477,352.**

6. VKCC Koalas: VK6DXI, VK3TZ, 9M2CNC, VK4EMM, **2,368,241.**

7. Contest Group du Quebec: VE2XAA, VA2WDQ, VE2AWR, VE2HIT, VA2SG, **1,063,173.**

8. KOTA Group: DO1YCL, DC2YY, DL1REM, **984,346.**

Special Mention

Among the 286 countries on the air for the CQ WW weekend were the following stations, many of which you may have logged. They were just some of the rare stations that made the contest more interesting for everyone by going on DXpeditions or providing rare call-signs. They are: 1A3A, 3A2MG, 3B8GT, 3DA0WW, 3V8SS, 4O3A, 4K9W, 4L6AM, 4L2M, 4O/DD5FZ, 4U1WRC, 4X0C, 4X0M, 4X2M, 5B/HASPP, 5C5W, 5H3EE, 5K4C, 5R8FU, 5Z4/YT1CS, 6V7G, 6W1RY, 6W1SE, 6Y1V, 7X0RY, 8P5A, 9K2HN, 9K2K, 9M2CNC, 9M2GCN, 9M4DXX, 9M6LSC, 9M6NA, 9M8YY, 9N7JO, 9V1DE, A35RK, A45WD, A52K, A61C, A61HH, A71BX, AF7DX/KH2, AH2R, AO8A, B1Z, B4R, B7M, B7P, BA4T, BV2B, BX5AA, C31LJ, C4I, C4M, C50C, C6APR, C6AQW, CC0Y, CN2FB, CN2FF, CN2R, CN3A, CN4P, CQ3T, CQ9T, CT9L, CU2A, D9K, DX1DBT, E21EIC, E51NOU, ED5ON/EA6, EK0B, FM/K9NW, FS/K1XM, FY5YE, HB0/HB9AON, HC8N, HH2FYD, HI3CCP, HI3T, HQ9R, HS0ZDG, HV5PUL, HV50VR, HZ1GW, IF9A, IG9R, IM0/IK0FMB, IR8Y, IS0/IQ0AL, IS0/K7QB, IU9A, J3A, J88DR, JD1BIA, JT1DA, JT1VV, JU1F, LX/LY3Z, LX8M, MD9Y, MM0XAU, MU0FAL, MU0GSY, NH0DX/NH2, OH0/SP7VC, OH0B, OH0JFP, OH0R, P33W, P3F, P3J, P40A, P40PA, P40W, PJ2T, PJ4E, PZ5XX, ST2M, SU8BHI, SV9COL, SV9GPV, SX5P, T48K, T6EE, T70A, TA1CM, TA2IB, TA3D, TA7KA, TF3AM, TF8GX, TI5N, TS6A, TT8HA, UK9AA, V26B, V4/NE1RD, V47KP, V51YJ, V8AQM, V8FEO, VP2MDG, VP5DX, VP5T, VP8CXV, VP9I, VQ9X, VR10XMT, VR2C, VR2DS, VU2PTT, VU2SWS, VU3DJQ, WH2D, WP2/AH8DX, WP2Z, XR6T, XU7MDY, XV1X, XW1A, XW3DT, YM2W, YM0T, XX9AU, ZA/IW2JOP, ZB2FK, ZB3B, ZC4LI, ZD7X, ZD8N, ZF2AH, ZL7/DL2AH, ZM4A, and ZS9X. Congratulations to China for hosting the 2008 summer Olympic

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
8P5A	262/14/38	777/21/82	1153/29/104	2093/30/123	2499/27/100	924/22/71
VY2ZM	498/17/75	523/20/81	751/26/97	2109/32/111	1868/27/111	23/12/19
P40W	147/12/29	519/22/79	593/24/87	1343/28/101	1851/26/97	1018/19/42
CU2A	213/10/49	512/22/83	1011/21/87	1697/36/117	2601/30/112	168/15/51
VC3J	238/13/28	629/22/76	485/24/77	1789/34/129	1706/28/115	214/12/28
P40PA	27/5/10	430/19/55	404/16/61	1529/24/88	2026/21/87	852/18/42
K5ZD/1	73/11/39	264/20/84	1590/38/124	1275/26/112	103/13/38	921/25/94
VC3A	237/19/23	633/18/66	595/22/75	1712/33/126	1220/25/111	162/12/34
M6T	207/14/52	1073/24/92	549/25/90	1485/37/112	1385/34/122	282/15/63
PZ5XX	23/9/17	192/17/38	408/25/79	722/29/100	1946/28/110	604/21/72

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	73/11/39	264/20/84	320/22/81	1590/38/124	1275/26/112	103/13/38
NN3W	59/12/33	241/20/71	550/25/91	1346/34/132	107/26/111	98/11/36
N1LI	65/11/37	374/22/84	259/24/78	1330/31/111	967/23/107	119/13/33
K4ZW	45/9/27	287/20/80	456/25/86	1149/34/113	1069/25/100	79/12/29
K3CR	53/13/32	305/18/74	199/22/71	1035/34/112	921/25/94	107/15/34
W3BGN	65/13/42	205/22/76	181/22/61	964/32/103	821/25/96	72/8/23
AA1K/3	43/9/26	150/19/57	171/20/59	795/28/105	1068/24/103	72/10/27
W9RE	51/13/30	178/20/64	260/24/82	803/29/115	741/28/105	93/14/39
K5TR	19/9/15	140/19/53	357/28/79	494/26/90	1300/32/110	124/14/42
K1TO/4	25/7/19	171/15/51	325/24/77	870/27/105	949/30/99	30/7/10

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

CN3A	69/10/60	761/23/102	1161/27/108	2266/38/145	3826/35/145	362/23/90
FY5KE	188/14/58	533/24/88	958/32/118	1824/33/144	3125/33/138	1554/23/100
P33W	393/12/69	760/22/99	1370/27/115	1806/32/141	2545/33/140	620/16/72
ZY7C	49/9/28	417/22/87	692/27/90	1469/33/131	3220/31/126	141/17/59
CQ3T	28/6/24	333/18/86	732/22/83	1550/34/121	3211/30/124	52/18/52
9A1P	312/15/76	919/21/98	1036/31/123	2158/38/153	1619/36/154	511/24/104

USA MULTI-OPERATOR SINGLE TRANSMITTER

K9RS/3	53/12/37	298/23/82	173/23/83	1183/33/123	966/29/128	71/13/36
W3UA/1	27/10/21	201/22/77	231/25/88	1457/34/129	586/24/118	32/11/32
K8AZ	33/12/30	149/25/78	200/26/91	686/36/133	803/30/126	117/16/44
K5NA	22/12/20	114/24/66	316/28/87	502/36/128	1078/31/123	171/18/54
K3EST/4	36/8/23	111/20/64	360/21/85	1257/33/126	454/24/100	24/11/23
N1MM	28/7/17	148/18/61	258/25/90	595/31/126	596/25/119	134/14/41

WORLD MULTI-OPERATOR TWO TRANSMITTER

A08A	173/11/57	1248/24/105	2017/30/114	3022/37/150	4777/34/150	852/24/107
HC8N	205/14/32	1113/27/97	1785/31/121	2752/34/137	4627/34/138	2155/25/85
C50C	135/11/47	816/22/89	1977/31/108	2463/38/153	4750/37/151	1896/23/107
PJ4E	176/12/28	746/21/68	1853/30/108	2704/35/133	3326/31/130	1206/21/63
IR4X	150/10/61	1063/25/104	1718/33/131	3108/39/155	2589/38/157	476/23/103
P3F	349/9/62	729/17/84	1767/35/126	1804/36/125	2414/33/141	431/18/75

USA MULTI-OPERATOR TWO TRANSMITTER

WE3C	71/15/51	627/25/101	656/26/103	1812/37/145	1319/27/129	115/14/42
K1G	53/10/33	297/21/81	293/24/86	1499/31/126	1095/27/125	157/16/48
W4RM	56/12/33	372/23/85	516/25/94	1311/33/127	670/27/114	135/12/38
N2RM	21/7/14	123/20/62	179/22/69	1406/30/115	1047/26/118	95/11/33
K2LE/1	25/9/18	154/19/68	323/25/95	929/34/134	570/25/118	126/16/40
W1HH	34/10/17	307/21/83	248/24/85	821/30/117	628/25/120	57/11/27

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

TS6A	446/11/75	1714/24/96	1832/32/118	3545/36/140	3060/36/134	1166/22/88
C09K	229/13/70	951/24/102	1904/34/128	2709/37/145	3998/34/150	818/26/110
V26B	315/12/42	1492/24/97	2134/26/113	3261/33/133	3705/29/117	1416/24/71
K3LR	392/18/60	1015/28/105	1277/32/123	3273/39/169	2018/32/146	369/20/61
KC1XX	231/15/50	862/28/110	894/28/109	3257/39/168	2365/28/147	353/20/63
DR1A	940/11/76	2133/25/110	2395/34/136	3059/39/154	1836/35/155	905/22/106

USA MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	392/18/60	1015/28/105	1277/32/123	3273/39/169	2018/32/146	369/20/61
KC1XX	231/15/50	862/28/110	894/28/109	3257/39/168	2365/28/147	353/20/63
W3LPL	309/17/62	844/24/104	114/29/121	2355/39/153	1660/32/139	256/18/56
NO4I	128/13/33	432/26/95	706/29/110	1986/38/144	1477/32/137	251/19/54
K1TTT	234/13/43	700/25/99	689/27/104	1804/36/143	1112/27/125	308/20/57
W3PP	78/13/37	228/21/74	389/25/92	931/31/125	1447/26/128	201/16/48

Games and providing a record number of stations on the air during the 2007 contest. We hope the number continues to grow. Please check out the dramatic increase in activity from China, Indonesia, Thailand, and all of Europe.

Comments

Conditions were far from excellent for the contest. In spite a very limited 10-meter band, as was mentioned in the introduction, the number of entrants in the SSB contest set an all time high! In the 2007 CQ WW SSB test 4862 electronic log submissions were received! Almost all were submitted perfectly, without our help. Your continued submission of an electronic log allows for a more detailed data base and fairer adjudication.

Your UBN/NIL report this time will look a little different. We have tried to simplify it. It still contains all the information which will allow you to improve your operating skills. In addition, we have again provided open logs so that you can learn about propagation and how the top scores do their operating. There is an added reason to submit an electronic log. We have a copy in case you suffer a computer failure. Last year we helped four contestants retrieve their lost log. Our thanks to all the entrants who took the time to create a successful electronic submission.

Submitting an electronic log is easy. Send your SSB log and summary to <ssb@cqww.com> (CW to <cw@cqww.com>). Please send your log in Cabrillo format. Remember to name your file with your call with .cbr extension—e.g., A45WD.cbr. If you did everything OK, you will get back an acknowledgment. If there was something wrong, you will get a message telling you what to do to correct the error. The messages are presented in numerous languages. If you don't see your language and you would be willing to help out by translating for your fellow countrymen, please contact us, or if you are having submission problems, we can help you at <questions@cqww.com>. It bears repeating that if you make a mistake on your

first submission, you can resubmit your log. It will replace the first submission.

If you have the capability with your logging program, please submit a log with exact frequencies. Exact frequencies help in the log checking and help with statistical analysis of band openings.

It is an exciting time in contesting. There have been recent advances in remote radio control and CW decoding software. Both of these interesting advancements will surely impact future contests. Remote radio control is already addressed by the present rules: The operator can be anywhere, but the station must comply with the distance rule—i.e., all receivers, transceivers, and antennas must comply with Rule III. Remote radio control offers a new window of opportunity for radio stations located anywhere to make their stations available to apartment/city-bound contestants. Who knows? Someday you may be able to operate remotely from the Caribbean without leaving your condominium in London! Computer decoding of CW, aka skimmer, will be addressed in next month's CW results and in the 2008 rules.

You can help us a great deal by double-checking your Cabrillo submission. Please make sure the correct category is indicated and the call you used in the contest is shown. If you submit a single-band entry, please check to see that your chosen entry matches what is in your log. A lot of time is spent correcting these potential "not in log" problems. The CQ WW has few requirements: Write down the callsign of the station you are talking to, claim the correct category, and do not self-spot. It's not hard.

Thanks

The CQ WW Contest Committee wants to thank all the entrants who make the CQ WW the event each year. It is because of you that the CQ WW is so much fun. The CQWWCC tries to assure that the results are true and accurate. This work is accomplished by lots of people on the committee. The members of the CQWWCC provide-

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CU2A	213/10/49	512/22/83	1011/21/87	1697/36/117	2601/30/112	168/15/51
M6T	207/14/52	1073/24/92	549/25/90	1485/37/112	1385/34/122	282/15/63
403A	234/11/56	640/19/82	597/27/97	1721/32/116	1402/35/121	450/15/70
ES5TV	487/12/64	637/21/88	1157/30/116	1984/39/129	1128/27/104	188/11/51
S50A	163/10/59	528/16/70	1126/33/113	1071/37/113	1283/30/102	153/15/57
T93M	251/9/54	462/12/66	747/21/86	1645/32/104	1327/31/102	491/17/65
MI0LLL	278/12/54	542/17/79	674/24/90	1327/29/109	1317/24/100	245/7/39
EA4KR	24/3/20	331/16/71	674/23/81	1659/30/104	932/31/94	371/14/48
GW4BLE	103/5/45	576/14/66	617/20/83	1245/29/99	1046/23/80	215/13/52
OF8X	171/8/49	307/18/65	460/23/84	2110/35/109	444/22/85	147/6/32

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

9A1P	312/15/76	919/21/98	1036/31/123	2158/38/153	1619/36/154	511/24/104
9A7A	195/11/70	931/23/103	1013/32/121	2190/39/149	1593/37/152	386/21/98
9A1A	257/12/71	906/19/100	905/28/121	1720/36/146	1671/37/151	800/26/112
HG6N	361/12/68	818/20/96	983/30/128	2280/38/147	1662/37/151	244/19/93
OM8A	223/14/67	526/28/100	1030/33/127	1903/38/158	1606/37/156	325/18/89
E17M	257/12/58	765/20/95	759/28/111	2342/36/141	1965/30/131	319/20/72

EUROPE MULTI-OPERATOR TWO TRANSMITTER

IR4X	150/10/61	1063/25/104	1718/33/131	3108/39/155	2589/38/157	476/23/103
T93J	465/11/67	1130/22/92	1462/32/113	2334/38/147	2364/36/147	617/17/83
T70A	484/8/57	1408/16/80	1823/25/106	1700/33/114	1948/32/117	753/10/54
DO4W	302/8/59	682/17/84	997/31/114	1755/39/142	975/35/132	323/18/75
EE2W	307/10/56	849/20/90	685/28/103	1790/35/126	1368/34/128	591/15/56
OM0M	284/12/61	487/20/88	822/30/117	1409/36/129	1156/38/142	449/15/60

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

DR1A	940/11/76	2133/25/110	2395/34/136	3059/39/154	1836/35/155	905/22/106
DF0HO	925/14/75	1797/24/105	2804/36/136	2817/40/168	1634/35/157	814/23/113
TM6M	423/9/55	1214/22/101	1917/28/115	2975/38/144	1768/32/137	898/21/90
1A3A	649/6/60	1398/17/90	2930/30/117	3315/36/141	2349/33/137	1201/19/83
OT5A	952/12/70	1972/21/90	2131/36/126	2519/39/151	1126/30/121	902/22/95
LZ9W	582/9/64	997/21/95	2054/33/130	2434/34/139	2362/36/130	538/23/79

ing their expertise are K1DG, K1AR, K3LR, K3WW, K3ZO, K5ZD, K6AW, KM3T, KR2Q, KT3Y, N2AA, N2NC, N2NT, N3ED, N5KO, N6AA, N6TR, N6TW, N8BHQ, N9RV, W3ZZ, W5GN, W5OV, and W6OAT. Our DX members and advisors are CT1BOH, DL6RAI, EA3DU, F6BEE, G3SXW, I2UIY, JE1CKA, OH2KI, OH2MM, PY5EG, S50A, UA9BA, VA7RR, VE3EJ, and E21EIC.

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After many years of leading the way in log checking, Dick, N6AA, has decided to pass the CQ WW log-checking baton. Everyone owes a debt of gratitude to Dick for the enormous personal commitment he has made over the years to make the CQWW results as accurate as possible. Stepping up to the plate to carry on the important task of receiving and processing the logs is Ken, K1EA. Dick and Ken have worked together to make the transition as smooth as possible. A special thanks to Larry, N6TW, who provided the website UBN listing and to Barry, W5GN, who allows the CQ WW certificates to be produced and in your hands in a very timely manner. The CQWW records are maintained by N2NC, K3EST, and W5GN, and the All-Time Records by K6SSS. Thanks to John, K1AR, for his advice and hard work to make the CQWW so successful.

Congratulations to all the participants on all levels! We look forward to seeing you in the 2008 contests!

73, Bob, K3EST

DX QRM

My second CQWW at all and the first one on 80m. Great contest. Could be more lucky with the second day propagation. Invaluable experience for me and looks to be with some decent results. Have almost doubled the Asian record from '99 . . . **4L4WW**. We had a great time even with our tongue-twister callsign . . . **6F75A**. Got a bad cold as the contest started, so it became a struggle to keep staying up on the band. Had to limit myself to single band to allow enough rest. Oh, well, there is always next year. Very bad condx experienced from Kathmandu, almost nothing from NA and SA . . . **9N7JO**. Great fun! What a thrill to break 6 meg! 40m was the toughest band. 10m was a great surprise! . . . **A71BX**. We operated as Field Day style on a small hill near a lake. The objective for this operation was to show what the contest is and what DXing is to the local hams. Conditions were terrible. 10m is dead and low bands could only work big guns, but we had fun. Looking forward to next one! . . . **BA4T**. Thanks for nice contest. Unfortunately we lost one amp. We'll see you next year reloaded! . . . **CE1W**. After 13 years since my last CQ WW, here I am for my second participation. My main goal due to my condx was to make more than 100K points. 7 and 14 MHz were too crowded. Thanks all for the nice contest, also to CT1ETE for the PS50 . . . **CT1ENQ**.

Wow, if this was the sunspot minimum, what will we encounter in five years from now? Contesting is THE challenge in ham radio! . . . **DP6A**. The band a lot of QRN! . . . **E20YLM**. It was the first CQWW for most of the operators and they had a very good time! . . . **EH2T**. As usual great moments! . . . **F4ETG**. Wow! Much better high band conditions than expected. Maybe we don't need sunspots after all! . . . **G0MTN**. Really hard work in the low power section. On 20m in particular it was impossible to find and hold a run frequency, so just about all the QSOs were S&P. Things were much easier on 15 and 10m. Is this the first time ever with serious entries from 1A0, T7, and HV as well as Italy? . . . **G4BUO**. For some operators it was their first ever CQWW SSB Contest and glad to say they all coped admirably. MM0PSA, our youngest operator at 16, took to operating like an old professional and great to see. To us this is what it is all about, getting them involved and into contesting . . .

(Continued on page 100)

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Results (from page 29)

GM2T. As always CQ WW DX SSB makes its own propagation. Awesome contest with conditions better than predicted. Tnx to all the stations that make contact with HR . . . **HR2DMR**. My first contest in High Power category. For the next time I'll improve my receiving antenna systems and hoping for verticals. Enjoyed 80m for the large number of stations working from all over the world. See You all at the next and remember, no time for sleeping! . . . **IW3SSA**. I enjoyed the contest with the new antennas . . . **JATTH**.

Friday and Saturday, as usual. By Sunday morning I was hoping to get to 600 but a terrific opening on 15m with about 4 hours to go and had the best run I think I've ever had. Ended up with over 1000 QSOs. Missed everything on 10m because found the SWR on 10 was out of sight plus couldn't get the amp to tune on 80m. Never even heard a contesteer on 40 and must have been listening at the wrong times. But that run on 15 was so much fun, unbelievable. Decided to waste my 20 QSOs and enter single band 15m . . . **KH6GMP**. Seemed the contest and the bands came to life Sunday afternoon and the last four hours were the best by far! . . . **KL8DX**. QRP 5W, quite good conditions taking into consideration being at the bottom of the sunspot cycle. I was amazed at how far 5W goes, 59 counties and I did much less than half of the contest! . . . **M0LSK**. First time we have all worked together as a team in this contest, but some of us do get together each year to activate GB0SH special event station. I guess you could say we are the rookies in this category. We had to erect all the antennas and stations, invading a friend's home to do this. Thanks to Rob, MW0RLJ, for allowing us to use his home and farm . . . **MW5W**. This was my first Real contest. Could have done better but didn't take this first attempt too seriously. I concentrated work on 15m. Some good runs there on Sunday which gave me abt half of my total QSOs. Mostly S&P on other bands but frequently checked 15 and 10m for multipliers . . .

OH1JO. Good activity and nice to work in the contest. Conditions were rather good and I could work some stations on 10m. It is always pleasant to work many known stations . . . **ON5WL**.

Didn't really plan on participating seriously. Started out on Friday logging on a piece of paper. Got the taste again and continued on Saturday morning with a more decent approach. On Saturday I had practically one continuous pile-up from start up till the band closed down. FB conditions on 15 meters thru the weekend . . . **P43A**. We participated in the contest with the motto "fun and education" . . . **PI4ZOD**. Very bad propagation on 15m and therefore very difficult to work QRP power. Thanks to all hams, who worked with me . . . **RA3XEV**. Final club activity with special call SC5L to celebrate 300 years birth of scientist Carl Linnaeus (father of taxonomy) and his work in Uppsala. Next year we will have a beam antenna! . . . **SC5L**. The very first time from our radio club's shack in downtown Las Tunas so we really "enjoyed" the very strong city QRM besides such from multiplier station . . . **T48K**. I only had single vertical dipole and 300W but it went well. My highlight was on 15m at 1400Z when there was a great opening and I had the frequency and there were 3 and 4 QSOs every minute. I was amazed how good ears they had, operators at W7WA, CN3A, and PJ4E, as they were able to copy my weak signal through all the QRM . . . **TF3AM**. This was a "100 Pound DXpedition" so all radios and antennas came with us in checked bags. The lightweight tribander performed very well; the poor terrain thwarted low-band operation. EU, AF, SA, and NA were great. AS and OC never appeared . . . **V4/NE1RD**. This is our 5th year operating Multi-Two in Zone 2. This year we beat last year's QSOs and score. This year the weather cooperated with no snow, freezing rain, nor'easter storms . . . **VE2DXY**. Considering the huge signals heard from the big guns, it is hard to imagine what the bands will sound like when sunspots return . . . **VE7HA**. Wow, don't know if it can get any harder! 2007 CQWW SSB will go down in history as a long hard slog. But amongst the long almost endless hours of white noise there was some pleasure. C50C long path on 15m was the real highlight. 10m opening to KH6 and W6 in the last few hours another plus, if for only a few fleeting moments . . . **VK4CZ**. Before contest two amps bit the dust (only one working). Lost all 160, 80, 40 antennas first night due to winds from approaching soon to be hurricane. Driving rain killed phone lines, no packet, great fun . . . **VP5DX**.

Despite S9 QRN level thrilled to work so many stations at this point in the cycle with a vertical and 100W! . . . **VU3USJ**. Pleased to see the 10 meters open again. Despite the bottom of the actual solar cycle and my urban location got several nice DX's . . . **YO2IS**. My location had rain storm during the weekend and multiple long power outages which limited the operation time. Many thanks to stations that take time to hear me in the noise . . . **YV6BXN**. The contesting world misses KT0R, who went SK just weeks before the 2007 CQWW SSB contest. Dave was a great friend and a terrific CW/SSB contest . . . **ZD7X**. Another enjoyable contest. Bettered our QSO number of last year at sunspot minimum. We even had a couple of runs on 10 metres but 80 metres was very noisy with continual static . . . **ZM2M**.

USA QRM

I was surprised to have 15m as my main band at this point in the solar cycle . . . **AA6K**. Not much time to do contesting this weekend especially during the day. Decided on a whim to crank up the Henry 2K2 and run about 500 watts. The big surprise was the 10m opening . . . **AD6ZJ**. Not bad for my first serious QRP entry. FT-817 and the ole' tribander at 42 feet. Thanks for the Qs, gang! . . . **AG4RZ**. 10m openings at this time in the cycle were amazing. Made a great contest even more fun! Thanks to all for the QSOs . . . **K0GEO**. Surprisingly good condx for zero sunspots. Seemed at times like the Zone 14 QSO Party.

Clearly, the new HF ops in many of those countries are having a positive impact . . . **K1TO**. First contest from the new QTH with real antennas. First contest in a long time with real antennas! A Euro run on 10, Woo Hoo! Happy Days are here again! . . . **K2EK**. The best part was the last several hours when 15m opened up to the Pacific. Good contest for a sunspot low. I also heard a station calling CQ Field Day near the end but I understood his confusion at that point . . . **K5LAD**. Wow, Morocco on 75 meters. There is life after midnight! . . . **KC0RQH**. Had four new people who had never done contesting before. We all had a good time for a first time effort. Hope to do better next year. Wish 10 meters was in a little while longer, then we heard it was. Oh well, next time . . . **KF4L**. Amazing to hear such propagation at the cycle bottom on 15m here in the southwest USA . . . **KF7E**. Thanks to AO8A for hanging in there to pull me out of the noise on 75m. Africa is not easy to get in October from here on that band and a new prefix to boot made my night! . . . **KS7T**. What a wonderful surprise to have 15m open so strong to Europe on both days. It was also good to work so many new European hams. While it was frustrating to hear the West Coast working Asia and Oceania so easily, it must be true for them as well with the East Coast and Europe. Hopefully next year we'll have some sunspots. Hold on to your hats! . . . **N3RD**. Wow! They call this the sunspot minimum? Then I can't wait for the maximum! . . . **N4KZ**. Zero spots made conditions on 40 to Europe like being on 80! Nothing heard east of Zone 16 and west of Zone 26. Sunday afternoon was great fun handing out points on the high bands . . . **N6AN**. It's amazing how much one-way propagation there was. Either that or there are a lot of poor antennas and receivers out there. Hmmm, couldn't be my signal, could it? . . . **N8WL**. Didn't have time for a serious entry this year. Just played around a little. Conditions were very impressive. 15 meters was incredible at times! Wish I'd had more time to take advantage of the great propagation! . . . **ND0C**. Conditions were good throughout the test. Several nice openings on 15 and 20m. Where was 10m? It didn't show up at my shack . . . **NJ9Z**. DX was so good, I has to check for sunspots! . . . **NN0Q**. In case anyone wants more data to support that a single wire antenna is a bad idea in CQWW here's more proof. 100W and wires is NOT a good idea if you want to be competitive. Had fun anyway! Thanks to all! . . . **NQ3X**. High power 20/15/10. 200 watts 80/40 due to amplifier failure on 80 and 40. 85% S&P. Hard to keep a run frequency. My first time as high power in a contest and the amp died on the bands where it was really needed . . . **W1CTN**. I had a ton of fun operating in my first contest! . . . **W2SFD**. Returned to W4NC after 10 years. Opened our door to several new operators who got to operate their first contest in the "World Series" . . . **W4NC**. What happened? The bands were HOT . . . **W4NTI**. Who needs sunspots?? . . . **W5UHQ**. The Los Angeles DWP decided to turn my power off about 3 hours before the end of the contest. That's 5 times this month that my power has failed. I'm living in the third world of the Hollywood Hills! . . . **W6AQ**. Conditions were not good and I had to struggle for each Q with my 5 watts and 3 elements. But in the last hour 15m suddenly opened. I had Qs with B7, VR2, E5, 9M8, and VKs, ZLs, and JAs. Maybe that was the start of the new cycle! . . . **W6QU**. Built the SSB board for my K2 just in time for the weekend, which was my first phone contest. Great fun! . . . **W7GH**. Vacuum tubes forever! HF = Collins!. . . **W8JMF**. This was my first CQWW and I had a blast! . . . **W8ZZU**. Not bad for poor propagation. Usually operate from Nevis as V47NS and stayed home because of sunspots this year, but nearly had DXCC worked from Indiana QTH after 24 hours. Wow! . . . **W9NY**. Another great contest. Lots of new players as the bands were swamped as compared to last year . . . **WJ2D**. Condx from my QTH in Denver were good to South America, Japan, and parts of Africa. Very tough to Europe and Asia. Great contest and will be back next year, of course! . . . **WK0P**.

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.)	
"K2M0	48,608 170 30 82
"W2LP	34,572 121 42 87
"N2OB	30,520 115 37 72
"K2RNY	28,912 130 36 68
"WA2MCR	25,812 111 36 72
"V2ZO	24,024 112 24 60
"KD2MU	20,475 105 26 65
"WV220W	17,298 74 33 60
"KB2BQ	16,008 79 26 61
"K2PH	14,208 77 19 55
"AI2N	12,567 69 19 52
"KC2OGR	12,390 89 19 51
"N2NYR	11,764 76 20 48
(OP: K1DG)	
"KD2MX	8,694 62 22 47
"WN2Y	6,588 50 19 35
"W3L3	6,350 54 19 31
"K2YHL	6,161 52 23 38
"KB2NB	4,796 47 15 29
"N2KWP	4,371 55 14 33
"W1CTN	587,772 656 84 264
"WIHIS	466,830 560 72 243
"NC4W1	409,950 552 63 207
"K02M1	391,170 84 40 130
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"W1YBH	324,972 407 80 244
"NN1N	306,803 401 81 206
"KB1W	253,271 421 55 178
"W1AO	252,144 362 72 200
"KB1PAJ	206,700 364 58 154
"K1E0	202,776 384 60 178
"K1ND	125,493 321 49 128
"K1OK	82,782 253 33 113
"W1MAW	64,841 227 38 119
"K1KU	59,346 203 33 93
"NIJW	46,256 154 30 88
"K1SEZ	44,902 139 43 100
"K1YA	39,816 127 40 86
"K1TC	17,577 92 29 64
"K1IM	295,152 853 26 103
"K1OS	156,914 439 26 108
"AB1EP	47,348 202 18 71
"W1OHM	1,914 31 11 22
"W1XX	24,640 125 22 58
"AA1BU	3.7 184,080 569 23 95
"K1HAP	1.8 4,318 127 9 25
"K1XB	A 1,634,500 1289 105 362
"N1UR	1,364,270 1123 100 354
"N1PGE	681,264 742 76 266
"W1JQ	636,870 710 84 261
"W1KT	273,600 365 67 218
"K1HT	252,720 359 76 184
"K1RM	252,358 433 59 170
"K7JE/1	213,858 365 64 154
"AB1J	149,051 292 53 146
"AK10	135,917 273 51 148
"K1BV	102,678 325 23 86
"KA1VMG	76,720 248 34 103
"A1W4B	65,184 194 56 112
"KB1JFG	63,547 219 27 82
"AE1P	57,855 158 45 100
"K1VSJ	50,932 162 30 89
"N1DC	40,584 147 36 78
"K1VU	19,008 84 32 64
"W1CRK	17,892 95 22 62
"W2JJ/1	17,019 72 35 58
"KB1JUF	16,068 76 24 54
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"NJ1Q	14,025 84 30 55
"K1KX	8,840 66 23 45
"N1SXL	3,000 39 17 23
"WB2HTO	2,530 43 18 28
"W1SRB	1,225 23 15 20
"KB1MIC	672 22 11 17
"KB1LH	520 14 9 11
"N1HHRF	28 1,950 37 7 19
"KK1KW	21 140,790 411 25 105
"N1NK	* 112,100 344 23 95
"KB1CJ	* 1,638 25 7 19
"W1DYJ	14 19,368 105 16 56
"N2LT	A 2,569,716 1921 114 378
"N2MM	* 1,280,100 1246 100 325
"WA2NHA	629,514 1030 70 237
"AB3CX/2	731,155 761 89 290
"K2CS	604,476 672 85 263
"K2FU	503,062 617 83 259
"N2GC	399,550 459 67 249
"K2NV	318,750 499 69 181
"K2RET	311,741 467 66 191
"K3ODV/2	255,120 459 60 180
"KA2LIM	157,976 262 61 187
"NA2M	149,187 272 70 153
"N2ED	124,344 276 45 153
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"W2UDT	83,148 215 44 112
"N2SOW	68,645 185 43 112
"W2FU1	61,533 175 33 96
"N2BEE	56,280 197 33 101
"N2CG	43,092 151 38 88
"N2WLS	34,662 130 33 73
"W2FZ	34,475 153 30 72
"KB2DE	9,360 70 18 42
"K2BET	5,568 66 20 44
"N2VM	1,156 23 14 20
"W2RR	28 13,240 130 11 29
"K2XA	14 749,760 1746 34 131
"K2RED	* 11,640 100 6 34
"K2MGA	* 8,712 67 13 31
"K2USA	* 3,306 35 11 27
"W2XL	7 9,828 74 13 39
"W2VO	1.8 7,425 66 14 41
"WW2DX	* 2,210 43 8 18
"K2PS	A 828,714 859 66 278
"K2VM	* 226,800 387 54 171
"K2E2DX	* 184,667 289 58 201
"N2ML2	* 111,544 244 61 130
"K2DBK	* 104,880 228 58 132
"AB2TC	* 93,870 245 41 108
"K2X5	* 87,764 226 35 113
"WB2OOQ	* 73,319 196 41 116
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"N2WSY	* 49,408 173 36 92
"K2RNY	48,608 170 30 82
"N2OBY	34,572 121 42 87
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"WA2MCR	25,812 111 36 68
"V2ZO	24,024 112 24 60
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"WV220W	17,298 74 33 60
"KB2BQ	16,008 79 26 61
"K2PH	14,208 77 19 55
"AI2N	12,567 69 19 52
"KC2OGR	12,390 89 19 51
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"W3L3	8,694 62 22 47
"WN2Y	6,588 50 19 35
"K2YHL	6,350 54 19 31
"KB2NB	6,161 52 23 38
"N2KWP	4,796 47 15 29
"W1CTN	4,371 55 14 33
"N2XLS	1,640 30 17 23
"K2ATD	1,134 22 10 17
"K3AT0	* 775 13 13 12
"K3AT3	* 204,670 237 50 125
"N3ALN	* 84,660 241 46 124
"K3WGR	* 71,391 210 43 116
"K4C4D	* 147,804 316 52 166
"N4EPT	* 144,970 281 54 164
"N4KZ	* 137,720 263 67 157
"W3L3	* 587,064 627 88 278
"NS3T	* 274,032 450 70 194
"K4FYM	* 205,779 326 66 173
"W4VIC	* 205,590 395 54 177
"W4DF4	* 204,424 316 71 192
"K4GAW	* 196,420 351 64 166
"N4PK	* 184,987 299 69 182
"N4SE	* 147,804 316 52 166
"N4UA	* 149,205 288 56 147
"N4CW	* 125,824 410 63 169
"W4KWX	* 256,824 410 63 169
"N4ACW	* 253,872 382 72 186
"W4BN	* 248,793 393 60 196
"K4B0A/0	* 196,272 361 60 172
"N4JF	* 97,900 222 56 133
"K4M4RK	* 101,202 208 60 142
"W4FVT	* 89,806 220 57 108
"N4M04	* 152,768 319 57 150
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"K4CX	* 60,768 195 46 98
"W4XTM	* 57,960 198 39 98
"K4BZMR	* 57,130 166 47 98
"N3CZ/4	* 57,090 138 51 114
"K4R4RO	* 55,625 193 36 89
"K4E4DI	* 50,490 147 45 108
"K4TV0	* 49,178 145 45 89
"N4A4RO	* 46,389 130 47 71
"N4W4O	* 45,694 139 42 92
"K4LRP	* 45,216 157 47 97
"W4AAEJ	* 43,168 131 42 100
"N4U4I	* 34,191 161 43 88
"K4TPD	* 33,558 118 38 81
"A14GR	* 27,195 105 41 64
"N4HXI	* 26,384 107 32 65
"K4ML	* 25,338 106 32 61
"WBAJVR	* 25,070 107 42 73
"W4WNT	* 23,712 97 35 69
"W4UDX	* 22,078 99 25 58
"W4BUW	* 21,243 88 36 61
"K4OD	* 20,150 132 45 85
"K4EWUL	* 20,055 96 40 65
"K4VNW	* 19,264 84 24 62
"K4FTO	* 17,711 94 30 71
"N4JED	* 17,664 102 21 48
"N4LS	* 15,664 75 34 54
"N4CI	* 15,466 77 23 51
"K4FDVG	* 13,629 85 27 48
"N4UFP	* 13,500 73 27 47
"W4PITS	* 12,375 77 28 47
"N4GJ	* 12,098 98 30 66
"K4BK	* 11,039 67 32 51
"W4LWV	* 10,981 95 25 54
"AD2DH/4	* 10,971 81 22 47
"N1ZD/4	* 10,251 66 22 45
"K4ES	* 8,960 62 26 44
"WD4KTF	* 8,784 68 23 38
"K4UWJU	* 8,687 65 25 48
"K5AS	* 7,006 57 22 40
"W4AED	* 6,216 55 20 36
"WDAILSS	* 5,712 48 23 33
"K4G0P	* 5,320 78 25 45
"K4D4YUX	* 5,014 64 17 29
"K4P4G	* 3,864 43 23 33
"W4BCG	* 3,240 77 21 33
"W4D4WUO	* 2,320 50 25 33
"N6ZOS	* 2,175 29 14 15
"N4US	* 2,162 46 15 31
"WBA4PNZ	* 2,115 33 19 26
"A4Z4R	* 2,052 43 12 24
"K4CEZN	* 2,048 54 23 33
"WAAOSD	* 1,980 24 16 11
"K4T4MM	* 1,938 28 17 21
"K4CDW	* 1,426 25 14 17
"K0RRP	* 860 39 14 29
"W4FRA	* 513 14 8 11
"K4TRH	* 168 8 6 8
"K4ZNL	* 110 7 5 6
"N4PGW	* 63 14 11 10
"A145X	* 44 6 5 6
"K4QVK	* 5,652 61 10 26
"W4GRW	* 3,660 51 8 22
"K45QR	21 82,080 257 25
"N4QK	* 6,624 60 14 32
"AG1H/4	* 858 21 7 5
"K4DRSL	* 138 8 3 5
"N4MO	14 126,630 385 22 104
"N4DL	* 119,560 379 23 99
"W4LC	* 91,271 313 21 81
"K4L1P	* 55,300 242 18 82
"K5Z0H/4	* 25,136 164 19 52
"WAAZOSD/4	* 11,760 82 17 43
"WNA4DX	* 3,780 44 10 29
"K4JV	* 3,393 38 10 29
"W4E4EH	7 35,020 166 19 66
"K5TR	A 2,864,180 2434 128 389
"N4EPP	(OP: N6IC/5)
"K5IC/5	* 2,712,103 2159 133 354
"W5DK	* 1,008,000 958 104 296
"W5D5	* 462,978 622 82 224
"K5EJW	* 461,104 593 93 229
"W5KLA	* 406,236 550 80 211
"K5LAD	* 371,795 536 75 190
"K5OGE/5	* 356,680 499 81 215
"W5WDX	* 356,680 499 81 215
"N4Q5D	* 144,480 315 67 148
"W5JGA	* 115,506 260 62 124
"W5IL	* 115,232 210 50 128
"W5SIL	* 116,556 167 47 91
"W5R5G	* 49,938 162 44 79
"W5B5YJ	* 48,645 160 39 227
"W5OXP/5	* 41,019 147 40 81
"N5ID	* 3,060 45 30 38
"W5P4B	* 2,376 46 21 23
"K5C5TA	* 2,376 46 21 23
"W5VYS	* 2,376 46 21 23
"K5TEY	* 72 4 3 3
"W5P5R	* 53,055 303 22 59
"N5ZK	* 21 122,570 482 27 87
"W5F0	A 14,185,272 427 32 111
"N5JB	7 71,190 282 27 86
"K5RX	1.8 586,124 44 4 2 2

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The new "run rig" of choice...



IC-756PROIII

...to go along with your
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*NSAW	A	1,094,904	974	111	333	K1TAO	*	32,054	151	40	54	N9KG	*	102,538	240	47	120	NL7V	*	27,720	124	33	51	ZF2AH	Cayman Islands
*KC5R	*	473,088	563	98	238	KC7KPA	*	30,849	137	43	70	N9ZR	*	96,560	228	48	122	KL8DX	14	50,300	478	21	29	21	805,250
AC5O	*	272,650	450	72	194	KC7UP	*	29,204	118	31	67	W9SE	*	90,888	230	58	110	*WL7UQ	14	7,194	96	16	17	21	3176
*W5GAI	*	227,912	385	68	180	KB8WU7	*	29,007	120	34	65	A9JC9	*	89,208	212	49	119	Bahamas	14	114,900	537	21	79	21	100
NN5T	*	124,871	262	65	128	KSTT	*	26,085	108	44	67	K9JIG	*	73,248	185	55	113	*C6AQW	14	409,100	4409	100	321	(OP: W6VNR)	
*K5KDX	*	109,563	263	50	127	WGTX	*	25,029	108	41	62	K9GN9	*	69,864	218	49	93	*C08LY	21	555,660	2043	27	99	(OP: H3TEJ)	
KE5LO	*	93,456	208	55	122	N6M7A7	*	22,533	104	35	52	K9JDV	*	62,307	198	51	78	*CM6RCR	7	348,473	1616	22	87	(OP: H3CCP)	
*W5TH	*	91,900	308	50	130	K7BH4M	*	11,200	111	20	30	N9WKW	*	56,021	159	52	99	*H3CCP	7	164,400	884	23	77	(OP: EA4ATI)	
WA5ZUP	*	87,616	309	49	99	K7BUUJ	*	6,426	21	21	23	W9QCD	*	26,829	108	39	60	Barbados	14	11,963,439	7708	143	518	Dominican Republic	
*KB5FSV	*	43,160	150	40	90	K7EG	*	3,612	37	15	27	N9RC	*	22,654	101	29	65	8P5A	A	11,963,439	7708	143	518	(OP: H3TEJ)	
KD5ZEZ	*	35,524	130	42	65	NF7E	*	2,655	42	18	27	KK9V9	*	22,572	94	36	63	*W2SC	*	1,027,620	1568	72	198	(OP: W2SC)	
*KSBZH	*	22,784	118	30	59	N7XV	*	624	14	7	9	WA9LJK	*	18,612	83	37	62	8P6SH	7	90,475	620	18	59	(OP: H3IC)	
KE5OG	*	19,035	95	30	51	KC7V	21	66,123	286	25	68	W9WI	*	18,540	85	39	64	*8P6EX	A	879,937	1547	78	193	(OP: H3CCP)	
*W5TRT	*	14,720	74	28	52	K17DG	*	2,624	52	13	28	W3HDH/9	*	11,466	67	29	49	Canada	14	9,571,348	5772	134	494	(OP: EA4ATI)	
WA5TRX	*	11,900	72	25	45	W7WMA	14	733,894	1580	38	140	W09S	*	6,996	68	24	29	VY2ZM	A	9,571,348	5772	134	494	(OP: K1XM)	
*N5UWY	*	5,564	44	20	32	N7DD	*	492,466	1133	39	131	N9PUZ	*	6,993	56	27	36	*H3ANF	A	4,610,124	4280	112	362	(OP: XA4ATI)	
*AD5VJ	*	5,479	64	26	40	W7TTE	*	105,072	292	31	101	W9WY	14	212,486	664	20	108	*K1ZM	*	1,027,620	1568	72	198	(OP: K1XM)	
*K5WW	*	5,073	38	27	30	W7KRR	*	17,270	118	20	25	W9EXY	*	177,552	490	33	111	VY2LI	*	539,748	737	60	222	(OP: H3TEJ)	
K05D	*	4,633	66	19	22	KN5H7	*	2,686	30	13	21	K9CAN	*	76,160	240	32	80	VE1MC	21	340,833	1120	23	100	(OP: H3TEJ)	
*W5WRE	*	4,161	48	23	34	N9KC	7	3,952	47	15	23	W9IIX	*	34,176	184	19	70	VO1TA	*	306,471	994	22	89	(OP: H3CCP)	
KD5MM	*	3,572	36	16	22	K7ZV	3,7	35,506	211	31	51	K9DN	*	11,001	78	15	42	*VO1KV	A	293,260	752	45	127	(OP: H3CCP)	
*K5LTZ	*	3,025	47	23	32	K9WB7	*	9,259	86	16	31	AG9PS	7	20,572	104	21	53	*VE1D7	*	182,787	380	42	149	(OP: EA4ATI)	
*W5UHO	*	2,940	47	16	26	*K7ACZ	A	257,022	376	89	173	K9IDQ	*	1,445,048	535	87	230	*VE9CEH	*	131,215	401	43	120	(OP: EA4ATI)	
*KD5UBC	*	2,850	34	18	20	*N7TR	*	196,344	379	74	128	*N4T2Z	A	1,058,293	904	108	341	*VO1BBN	*	36,300	128	26	84	(OP: EA4ATI)	
AB5XZ	*	2,490	38	13	17	*N7BK	*	171,000	373	58	122	AG9X	*	1,445,048	535	87	230	*VE1AWP	7	2,516	81	6	11	(OP: EA4ATI)	
*K5VN	*	1,980	28	16	20	*W7RV	*	122,012	251	65	123	K9JEP	*	141,531	284	53	138	*H3FYD	A	366,933	975	44	129	(OP: F6FYD)	
*N5DTT	*	1,947	28	14	19	K7HBN	*	109,050	275	46	104	*N9TTX	*	1,027,620	1568	72	198	VE2IM	A	5,402,925	4280	110	385	(OP: K1XM)	
*N5HMH	*	1,885	56	26	39	*K7EY	*	61,920	185	47	82	W9LYE	*	88,910	272	52	118	VA2WDO	*	89,075	206	44	131	(OP: K1XM)	
KD5J	*	1,248	21	11	15	*W7ON	*	30,096	145	34	54	W9WQ	*	49,005	146	40	95	VE2DC	*	88,690	204	56	125	(OP: K1XM)	
*KD5QQD	*	975	24	13	12	N7WI	*	28,908	118	42	57	K9OR	*	46,800	125	50	100	*VE2XA	A	640,528	717	84	260	(OP: K1XM)	
*N5VYN	*	560	17	10	10	*A7AKD	*	28,440	141	35	55	*N9UPC	*	36,285	157	43	80	*VE2HT	*	221,450	481	58	157	(OP: K1XM)	
*N5PNU	*	504	20	11	17	*AB1R7	*	23,664	98	29	33	K9GY	*	35,805	137	34	71	*VE2GSO	*	156,544	602	41	87	(OP: K1XM)	
*NEKEV	*	102	10	8	9	K6JUM7	*	22,058	109	33	49	N9JZ	*	31,900	124	39	77	*VE2AWR	*	135,150	343	40	130	(OP: K1XM)	
*W5DUT	28	5,766	77	10	22	N7FLT	*	21,690	100	33	57	AB9KZ	*	31,136	110	38	74	*VE2FU	*	16,556	183	4	106	(OP: K1XM)	
*AA5JG	*	2,929	43	8	21	K7TR	*	20,904	116	44	60	W9WU	*	25,380	102	28	66	*VE2R20	*	56,576	183	46	106	(OP: K1XM)	
*K5FP	21	106,148	326	27	92	K7LAZ	*	19,148	107	30	43	N9UY	*	21,185	126	34	61	*VE2RQ	*	58,280	210	30	94	(OP: K1XM)	
*N4IJ5	*	103,912	329	28	96	*W7VVK	*	16,660	91	32	38	K9MI	*	19,380	95	29	66	*VE2LQZ	*	1,984	29	10	21	(OP: K1XM)	
*KE5HOB	14	136	8	4	4	*N7WE	*	16,400	79	33	47	N9VX	*	10,028	81	31	53	*VE2FFE	*	1,300	27	12	14	(OP: K1XM)	
*KE5LHC	*	100	6	4	3	*AD7KG	*	10,176	81	27	53	AG9D	*	1,445,048	535	87	230	*VE2P1	28	144	6	4	5	(OP: K1XM)	
K6NA	*	1,193,950	1215	21	256	*W7KAM	*	9,760	76	25	58	W9YQ	*	3,192	40	17	25	*VE2SG	14	41,876	217	15	61	(OP: K1XM)	
K6XX	*	871,500	980	25	245	*W4LSC/7	*	9,636	61	28	38	K9AIIH	*	2,772	41	20	24	VC3J	A	7,361,332	5061	133	453	(OP: K1XM)	
W6PH	*	782,000	920	99	241	*K6SLU7	*	7,306	61	24	26	W9ILY	*	2,664	29	14	22	VC3A	"	6,160,480	4559	119	435	(OP: VE3AT)	
N6VI	*	393,936	582	97	86	*W7AM	*	7,056	68	25	31	K9KU9	*	1,953	27	14	17	VE3CX	*	1,578,834	2098	102	265	(OP: VE3AT)	
W6TK	*	301,336	493	77	165	*W7MT	*	7,017	65	21	21	K9PY	*	1,530	24	18	18	*VE3KAT	A	640,528	717	84	260	(OP: VE3AT)	
K16CC	*	210,120	433	64	140	*W7GH	*	4,346	47	19	21	N9GPH	*	1,272	21	8	16	*VE3VTPR	*	1,234,000	317	100	200	(OP: VE3AT)	
N6TV	*	168,585	330	70	124	*N7GM7	*	1,683	24	13	20	W9ZEB	*	1,148	21	16	16	*VE3VTPR	*	1,234,000	317	100	200	(OP: VE3AT)	
N6BU	*	157,206	318	70	127	*W7AU	*	1,679	24	13	20	W9QW	*	1,148	21	16	16	*VE3VTPR	*	1,234,000	317	100	200	(OP: VE3AT)	
WA6ST	*	43,561	157	46	81	*W7FW	*	102,291	307	31	98	K9OU	A	59,093	768	22	73	*VE3D3	*	50,960	564	75	164	(OP: K1XM)	
K6RAD	*	42,312	147	46	77	*W7MEW	*	3,864	102	12	16	N9YOT	*	81,225	211	60	111	*VE3D3	*	204,823	374	73	166	(OP: K1XM)	
N6CK	*	41,800	194	42	53	*K7WDL	*	1,541	31	10	13	MORN	*	14,526	266	60	118	*VE3D3	*	182,325	372	49	148	(OP: K1XM)	
AD6ZJ	*	38,586	154	50	68	*K7D7GM	*	209	10	5	6	KOMD	*	117,477	244	73	156	*VE3D3	*	31,535	101	30	133	(OP: K1XM)	
K16J	*	37,736	148	36	70	*W7UPF	21	44,068	246	24	68	W9OP	14	66,933	225	24	87	*VE3Y3	*	36,456	124	36	88	(OP: K1XM)	
K6JAT	*	3,444	62	15	23	KC8MP	*	7,366	78	15	41	KOIZ	14	71,136	379	26	88	*VE3RN	*	28,152	128	39	63	(OP: K1XM)	
N6IG	1.8	2,220	42	10	20	KB5ESQ	*	5,978	171	38	103	W9PWP	*	6,900	115	17	29	*VE3GLO	*	25,584	148	28	54	(OP: K1XM)	
*N6FA	*	1,822,268	563	39	89	W9ZCA	*	30,444	157	41	62	KO9AS	*	4,049,449	504	80	247	*VE3MCF	*	33,920	161	32	74	(OP: K1XM)	
K6RN	*</																								

*CT3FJ	14	Madeira Islands									
		5,624	67	8	29	*RA9CIN	8,094	60	15	42	*4Z5MV
*3B8GT	A	Mauritius									
		126,755	468	24	77	*RV9MN	874	21	9	14	*4X0M
CN4P	14	Morocco									
		1,939,653	4024	34	137	*UA9TT	49,590	273	21	66	*4Z5PJ
CN2FB	3.7	(OP: CN8NIK)									
		450,723	1280	24	103	RK0UT	20,355	153	11	48	*4X/S8MA
CN2R	1.8	(OP: UA2FB)									
		268,300	932	15	85	UA0APV	214,652	491	58	148	JN1ZSL
CN2FF	*	(OP: W7EJ)									
		207,466	732	16	82	UA0ACG	148,242	430	59	127	J1JABD
*CN2BC	A	(OP: UA2FE)									
		2,196,784	2217	25	269	RV0UU	110,019	313	47	122	J1ANA
*5C5W	28	(OP: CN8NIK)									
		24,480	157	17	43	RUJ0L	33,480	178	38	70	JN1ROV
*CN8YE	14	(OP: CN8NIK)									
		42,225	204	16	59	UA0AY	14	123,178	474	26	95
*V51YJ	A	Namibia									
		8,004	62	13	33	*RV0AL	181,883	415	59	162	J1LFX
*ZD7X	21	Saint Helena									
		796,095	2085	29	106	*RN0SA	93,800	327	42	98	J1SEK
6W1RY	A	Senegal									
		5,050,846	4181	99	338	*UA0AY	14	42,770	353	28	37
*6V7G	21	(OP: F5VHY)									
		1,178,590	2754	28	121	RZ0AK	19,988	127	21	55	JH1OGC
*ST2M	A	(OP: EA1FDI)									
		800,035	1156	56	209	*UA0SOX	6,848	55	22	42	JG1TVK
*ST100S	3.7	(OP: ST2EO)									
		6	1	1	1	*RA0FDX	4,042	61	19	24	J10CCW
*ZS2I	A	South Africa									
		11,913	73	14	43	*RA0CAH	1,400	45	13	15	J1A1MK
*ZS9Z	21	(OP: UA2FD)									
		46,104	271	14	54	*RA0SMS	2,088	71	9	20	J1A1GL
*RA0AQ	7	Sudan									
		10,706	94	19	34	*UA0AQ	7	120,400	497	29	J1A1OC
*ST2M	A	(OP: ST2EO)									
		800,035	1156	56	209	*RA0FDW	3.7	864	39	9	J1A1ZK
Asiatic Turkey											
5H3EE	A	Tanzania									
		1,988,288	1857	100	276	*TA3D	5,695,606	4066	96	415	JM2
*T6EE	14	Asia									
		22,272	221	16	48	*TA3D	2,162	31	20	27	J1ADDD
EK3SA	21	Afghanistan									
		368,784	1136	25	92	*TA3YJ	14	300	10	2	J1A1YU
RG9A	A	Armenia									
		4,133,025	2638	121	464	*RA0AQ	139,256	262	55	151	J1A1YU
UA9CLB	RT9S	Azerbaijan									
		1,390,818	1226	95	334	*RA0AQ	1,672	58	15	23	J1A1YU
UA9OQA	*UA9SP	Bhutan									
		610,731	878	63	216	*RA0AQ	178,466	699	61	120	J1A1YU
UA9JLL	*UA9SP	China									
		377,872	677	58	168	*RA0AQ	124,586	426	48	106	J1A1YU
UA9UJT	*UA9SP	CIAH									
		127,695	510	52	163	*RA0AQ	437,485	756	88	207	J1A1YU
RA9MC	*UA9SP	CIAH									
		231,868	443	42	154	*RA0AQ	136,806	602	57	94	J1A1YU
RV9AZ	*UA9SP	CIAH									
		119,139	302	34	117	*RA0AQ	125,488	398	64	112	J1A1YU
RX9JP	*UA9SP	CIAH									
		94,944	256	46	126	*RA0AQ	50,406	490	13	49	J1A1YU
RW9UOB	*UA9SP	CIAH									
		78,208	309	32	96	*RA0AQ	14	147,168	853	30	J1A1YU
RZ9OW	*UA9SP	CIAH									
		66,430	257	39	91	*RA0AQ	178,466	699	61	120	J1A1YU
RX9LW	*UA9SP	CIAH									
		43,688	162	36	91	*RA0AQ	124,586	426	48	106	J1A1YU
RA9AS	*UA9SP	CIAH									
		10,512	71	24	48	*RA0AQ	70,448	337	53	83	J1A1YU
RZ9CO	*UA9SP	CIAH									
		9,180	66	14	40	*RA0AQ	121,781	281	25	77	J1A1YU
RA9UN	*UA9SP	CIAH									
		4,704	73	13	40	*RA0AQ	124,586	328	25	82	J1A1YU
RU9UC	*UA9SP	CIAH									
		104	7	6	12	*RA0AQ	124,586	328	25	82	J1A1YU
UA9UR	28	CIAH									
		49	5	3	4	*RA0AQ	124,586	328	25	82	J1A1YU
RA9SCX	21	CIAH									
		121,625	401	26	99	*RA0AQ	124,586	328	25	82	J1A1YU
UA9JDP	*UA9SP	CIAH									
		17,000	129	18	50	*RA0AQ	124,586	328	25	82	J1A1YU
RA9UT	*UA9SP	CIAH									
		10,608	111	16	36	*RA0AQ	124,586	328	25	82	J1A1YU
RA9KWI	14	CIAH									
		79,025	295	24	85	*RA0AQ	124,586	328	25	82	J1A1YU
RA9AP	7	CIAH									
		22,345	181	14	49	*RA0AQ	124,586	328	25	82	J1A1YU
RV9SV	1.8	CIAH									
		51,954	395	10	55	*RA0AQ	124,586	328	25	82	J1A1YU
*RA9ACJ	A	CIAH									
		561,719	758	53	228	*RA0AQ	124,586	328	25	82	J1A1YU
*RA9CP	A	CIAH									
		389	784	731	156	*RA0AQ	124,586	328	25	82	J1A1YU
*RA9FR	A	CIAH									

*ON4CT	A	346,458	680	71	268	*OKTAY	*	111,020	574	29	153	*ES1BA	*	3,168	24	24	24	*RK3DU	*	37,264	221	28	109	*F4ETG	*	247,361	682	50	227
*ON5UJ	"	228,846	534	55	203	*OK2WYK	*	99,552	423	39	165	*ES5RM	14	4,884	89	8	36	*RZ3ARO	*	36,208	249	25	99	*F5LJW	*	207,692	437	62	212
*OT7TE	"	161,820	434	57	204	*OK2BRX	*	82,800	392	36	84	*ES7GM	7	96,459	780	91	91	*RZ3VA	*	33,885	178	37	98	*F4DLL	*	164,640	575	44	180
*ON6LY	"	74,106	295	38	141	*OK1CO	*	54,285	274	34	131	*ES6KW	3.7	16,080	242	10	50	*R6XTD	*	32,916	186	36	120	*F5INJ	*	149,688	533	43	173
*ON4KNP	"	32,670	180	31	90	*OK2BUT	*	52,706	263	29	117	*ES6PA	*	16,020	250	10	50	*RX3XP	*	31,974	208	33	113	*F5POJ	*	134,805	390	45	164
*ON8VM	"	27,608	144	30	89	*OK2FKF	*	48,772	239	39	139	(OP: OK2ABU)	"	16,020	250	10	50	*F6FUZ	*	31,828	205	26	83	*F5RQO	*	121,806	351	54	147
*ON3AR	"	16,432	146	17	62	(OP: ON4ZND)	"	45,633	268	32	127	(OP: UA3QDX)	"	16,020	250	10	50	*RV1AE	*	28,427	226	27	104	*F5LCU	*	121,402	408	40	162
*ON5WL	"	10,823	93	25	54	*OK1TRA	*	45,633	268	32	127	(OP: UA3QDX)	"	16,020	250	10	50	*F4EUN	*	116,085	387	46	167						
*ON8NT	"	8,892	89	20	56	*OK4DZ	*	45,543	198	40	101	(OP: UA3QDX)	"	16,020	250	10	50	*F6BAT	*	109,532	457	43	154						
*ON3TMG	28	1,456	53	7	21	*OK2SGY	*	42,924	266	31	116	(OP: UA3QDX)	"	16,020	250	10	50	*F5AEE	*	99,879	336	36	133						
*OS5OS	21	65,100	383	22	83	*OK1HVH	*	37,788	213	27	114	(OP: UA3QDX)	"	16,020	250	10	50	*F8BYD	*	87,354	310	45	162						
*ON3ND	"	42,750	257	18	72	*OK2AZ	*	33,142	192	32	114	(OP: UA3QDX)	"	16,020	250	10	50	*F4MWM	*	73,633	314	31	126						
*ON5SV	"	14,673	137	16	51	*OK1VKC	*	28,140	164	35	105	(OP: UA3QDX)	"	16,020	250	10	50	*F6AFP	*	86,464	438	35	158						
*ON7BBB	14	46,746	290	23	83	*OK2PHI	*	28,034	176	34	97	(OP: UA3QDX)	"	16,020	250	10	50	*F5NBK	*	70,056	341	37	131						
*0040	"	29,029	199	19	72	*OK2SWD	*	23,643	198	21	90	(OP: UA3QDX)	"	16,020	250	10	50	*F2R0	*	68,255	296	50	137						
*ON7IC	"	11,144	159	11	45	*OK2PBG	*	19,720	132	29	87	(OP: UA3QDX)	"	16,020	250	10	50	*F6DFP	*	63,720	271	40	140						
*006U	3.7	39,130	638	7	58	*OK1KOI	*	8,282	106	23	59	(OP: UA3QDX)	"	16,020	250	10	50	*F4EFE	*	63,360	178	53	112						
*ON60M	"	414	26	2	16	*OK1JN	*	3,782	94	11	51	(OP: UA3QDX)	"	16,020	250	10	50	*F5ICL	*	58,227	287	38	126						
Bosnia-Herzegovina																													
T93M	A	4,750,070	4923	122	477	*OK2ABU	*	1,770	68	6	24	RW1AC	A	3,565,482	3826	126	453	*RA1TV	*	26,257	123	32	89	*F6BAT	*	109,532	457	43	154
T93O	28	189,588	1349	22	100	*OK2ZN	21	110,366	470	30	109	RG3K	"	2,002,011	2463	113	476	*UA1WA	*	26,200	142	35	96	*F5AEE	*	99,879	336	36	133
E7/DK6Z	21	732,540	2508	38	136	(OP: DK6Z)	"	1,770	68	6	24	RG3A	"	1,948,456	2236	122	510	*UA1WA	*	22,712	127	35	101	*F8BYD	*	87,354	310	45	162
*T94WG	A	48,300	241	33	107	*OK1UG	7	28,520	246	18	74	RG3B	"	1,720,251	2066	102	405	*UA1AA	*	19,055	155	22	85	*F4MWM	*	86,464	438	35	158
*T92M	28	4,407	96	7	32	*OL4W	3.7	36,270	549	8	57	RG3C	"	1,373,982	1964	106	428	*UA1NC	*	16,264	162	27	79	*F5NBK	*	70,056	341	37	131
*T99W	14	696,608	2605	36	140	*OK1DST	1.8	4,185	107	5	40	RG3D	"	1,339,104	2176	96	385	*UA1EX	*	16,020	250	10	50	*F2R0	*	68,255	296	50	137
*T99D	7	208,361	1309	29	110	(OP: ON6U)	"	1,770	68	6	24	RG3E	"	1,469,536	945	81	321	*UA1FA	*	19,998	166	19	82	*F6DFP	*	63,720	271	40	140
*T99T	1.8	7,950	149	6	44	(OP: ON6U)	"	1,770	68	6	24	RG3F	"	1,211,255	613	59	194	*UA1DK	*	12,100	141	20	80	*F4EFE	*	63,360	178	53	112
Bulgaria																													
L25A	A	894,250	2237	71	294	*OK1ZK	28	13,200	196	9	51	OZ7AM	A	696,953	1588	68	281	*UA1CE	*	10,816	21	17	44	*F5MLJ	*	6,264	73	24	48
L25X	"	292,578	987	56	186	*OK2ZN	21	110,366	470	30	109	OZ7AM	"	358,905	799	60	27	*UA1CE	*	11,316	108	23	69	*F4EXM	*	2,450	510	30	39
L21ZF	"	228,864	825	41	151	*OK2ZK	"	44,128	366	21	91	OZ7AM	"	204,597	799	57	194	*UA1CE	*	12,100	141	20	80	*F6FDQ	*	25,740	235	24	119
L22JR	"	138,458	368	58	156	*OK2ZK	3.7	186,473	1465	22	97	OZ7AM	"	207,957	799	60	27	*UA1CE	*	11,316	108	23	69	*F5RPB	*	19,320	114	27	65
L22PG	"	98,936	237	55	111	*OK2ZK	"	10,137	146	20	73	OZ7AM	"	211,255	613	59	194	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
L21ZQ	"	9,438	131	12	54	*OK2ZK	"	10,137	146	20	73	OZ7AM	"	211,255	613	59	194	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
L21MS	21	302,610	1163	36	118	*OK2ZK	"	198,990	497	66	231	OZ7AM	"	204,352	630	47	201	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
L25Z	"	18,834	165	17	56	(OP: L2ZBE)	"	108,108	476	41	148	OZ7AM	"	204,352	630	47	201	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
L23TL	14	83,740	745	26	80	*OK2ZK	"	58,116	239	40	134	OZ7AM	"	207,957	799	60	27	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
L21QN	7	35,399	321	20	71	*OK2ZK	"	44,160	160	38	145	OZ7AM	"	181,260	439	62	97	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
*L22HN	A	222,794	520	59	227	*OK2ZK	"	32,562	280	24	110	OZ7AM	"	171,484	281	45	157	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
*L21AO	"	173,968	514	61	201	*OK2ZK	"	514	201	45	157	OZ7AM	"	171,484	281	45	157	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
*L21KY	"	169,248	535	63	205	*OK2ZK	"	514	201	45	157	OZ7AM	"	171,484	281	45	157	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
*L23SM	"	102,921	281	46	157	*MBC	"	865,920	1525	80	304	OZ7AM	"	128,384	825	29	99	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
*L22ZU	7	89,856	367	48	144	*OK2DQ	"	4,182	60	15	36	OZ7AM	"	128,384	825	29	99	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
*L21ZK	7	12,605	176	10	51	*M0WLF	"	54,918	1264	53	215	OZ7AM	"	128,384	825	29	99	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
*L22JA	3.7	65,040	767	13	67	*G4FAL	"	40,730	1149	59	283	OZ7AM	"	128,384	825	29	99	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
*L22SC	1.8	8,322	121	8	49	G2C	"	179,280	424	62	187	OZ7AM	"	30,176	286	15	67	*UA1CE	*	12,100	141	20	80	*F5RMB	*	19,320	114	27	65
Crete																													
SV9GPV	A	2,120,560	3176	108	412	G3RWF	*	120,111	896	21	92	SV9GPV	A	4981	149	531	3.7	RAUVE											

*DM3HZN	*	192,270	477	64	191	*DG1L5	*	4,312	58	19	37	IK2IKW	*	25,284	148	32	97	*IK2YGZ	*	41,905	409	17	68	*PE2JMR	*	46,240	247	31	129
*DF3OG	*	185,220	372	63	205	*DG5LM	*	4,002	51	17	41	IK5ILQ	*	12,460	97	26	63	*IW5ECP	*	25,596	224	18	63	*PA0B	*	46,150	303	23	119
*DL6AKK	*	165,808	50	49	192	*DL8UAT	*	3,504	31	20	48	14YUG	*	6,300	75	19	51	*I2BDWL	*	16,002	217	11	52	*PA0DVM	*	42,900	160	40	103
*DL9LF	*	157,542	459	39	178	*DJ2XJC	*	3,192	51	16	41	WV3SRC	*	3,306	66	14	44	*I2GSV	*	13,702	152	11	51	*PE4BAS	*	41,454	98	40	107
*DK7CH	*	157,131	560	43	178	*DL3APM	*	3,100	30	22	28	IK1CVF	*	740	36	10	27	*I2ZJOP	*	11,214	119	15	48	*PA3ADJ	*	40,866	203	33	106
*DL1TS	*	149,872	445	52	220	*DK9IP	*	2,891	34	19	30	I2DXI	28	12,798	140	17	62	*I2ZQG	*	10,659	118	12	45	*PD5LO	*	36,663	288	23	98
*DL8DAW	*	137,025	502	43	182	*DL2SWN	*	2,604	26	18	24	I2BPL	21	487,859	1514	36	127	*I2W2NA	*	6,405	67	17	44	*PD7BZ	*	31,130	166	26	84
*DM2AWM	*	136,080	455	45	195	*DK4QT	*	2,516	41	13	21	I2TCD	*	672	30	5	11	*I2ZGYS	*	6,069	78	14	37	*PA3EWG	*	30,702	199	27	102
*DL9A8F	*	135,801	390	48	189	*DL4NTC	*	2,408	37	14	29	IR5T	14	663,168	2208	37	139	*I2ZCLM	*	1,200	27	7	18	*PG1R	*	30,464	203	29	107
*DM3KZN	*	131,544	365	55	148	*DL1ARD	*	2,392	47	13	33	IR2M	*	526,492	1865	35	137	*I2ZJK	7	183,680	1041	32	96	*PA3AQU	*	29,120	206	25	115
*DL5XAT	*	128,205	421	48	183	*DL7CU	*	1,702	39	11	26	IR4B	*	364,536	1288	36	130	*I2ZFDU	*	77,480	438	27	103	*PA3DBS	*	26,559	230	23	94
*DL2DTL	*	116,760	416	47	163	*DL9FB	*	1,600	56	14	36	IR2W	*	43,624	1,056	401	22	*I2K4UY	*	3,690	88	6	35	*PD0HF	*	22,896	177	26	82
*DL2VB	*	114,595	394	43	162	*DC2CTOM	*	1,360	26	11	23	I2O9KT	*	21,090	173	16	58	*I26M6	*	2,457	59	7	32	*PA3AM	*	21,186	161	28	79
*DL6GV	*	113,646	357	43	143	*DOS5AW	*	1,221	46	5	32	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	14,691	109	24	59	*PA0CGB	*	16,990	108	22	61
*DF0IT	*	111,300	501	34	178	*D09KT	*	1,056	38	7	25	I2W5LR	*	1,026	36	5	22	*I2ZGJH	*	1,026	36	5	22	*PA3HGF	*	12,699	108	22	61
*DL1DXF	*	108,192	357	38	185	*DL8DXL	*	435	20	10	19	IV1WGN	*	72	4	3	3	*I2ZJFJ	7	183,680	1041	32	96	*PA0TPR	*	9,715	100	20	47
*DF6WE	*	105,165	407	37	168	*DL2WJT	*	418	16	6	13	I2K4SPB	3.7	72,555	661	17	88	*I2ZFDU	*	29,120	206	25	115	*PA0FAW	*	8,112	97	16	62
*DL8UL0	*	101,773	400	45	172	*DL1XAS	*	399	18	7	14	I2R0T	*	43,624	1,056	401	22	*I2K4UY	*	3,690	88	6	35	*PA2CVD	*	7,668	100	16	55
*DC8SG	*	101,700	372	48	180	*DL8MKG	*	336	9	7	9	I2W5LR	*	1,026	36	5	22	*I2ZGCB	*	16,990	109	24	59	*PA1PAT	*	7,300	97	18	55
*DK7GH	*	101,268	374	37	157	*D02KJ	*	273	17	7	14	I2R0T	*	46,376	516	15	73	*I2ZGJH	*	1,026	36	5	22	*PA0RBO	*	6,966	107	20	61
*DL0DWD	*	100,947	479	33	176	*DL2YED	*	255	11	7	10	I2W5LR	*	1,026	36	5	22	*I2ZGCB	*	16,990	109	24	59	*PA1G5	*	3,658	51	17	42
*DF2FM	*	99,484	318	49	160	*DL5EE	*	77	7	4	7	I2ZKKE	*	1,026	36	5	22	*I2ZFDU	*	29,120	206	25	115	*PA0TPR	*	9,715	100	20	47
*DL7VX	*	98,255	440	33	182	*DL2DY	*	54	11	8	10	I2ZKKE	*	1,026	36	5	22	*I2ZFDU	*	29,120	206	25	115	*PA0FAW	*	8,112	97	16	62
*DH2PL	*	92,974	310	48	183	*DL8DVWV	*	50	6	4	6	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA2CVD	*	7,668	100	16	55
*DL6EAQ	*	92,191	344	38	149	*DL2BMH	*	25	19	8	17	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA1PAT	*	7,300	97	18	55
*DL4DBM	*	91,332	264	39	133	*DH8BOA	28	54,004	489	14	78	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0RBO	*	6,966	107	20	61
*DL6NAU	*	90,688	407	39	179	*DJ1ZU	*	26,196	285	14	60	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA1G5	*	3,658	51	17	42
*DK7MCX	*	89,864	416	49	148	*DL7DZ	*	11,946	126	15	51	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0TPR	*	9,715	100	20	47
*DG0CC	*	87,234	397	39	162	*DL6JBO	*	5,292	67	12	37	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0FAW	*	8,112	97	16	62
*DF3IS	*	84,189	339	45	166	*DL9NEI	*	4,368	104	6	36	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA2CVD	*	7,668	100	16	55
*DL8HC0	*	82,386	322	40	167	*DB4SP	*	3,813	91	9	32	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA1PAT	*	7,300	97	18	55
*DL7FA	*	81,672	360	27	137	*DL5ANS	*	1,300	48	5	21	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0RBO	*	6,966	107	20	61
*DL7ULM	*	79,750	330	39	141	*DL1FEF	21	148,911	545	26	121	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA1G5	*	3,658	51	17	42
*D09ST	*	78,560	419	33	130	*DO1CTS	*	7,965	103	13	46	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0TPR	*	9,715	100	20	47
*DL3SCN	*	76,018	338	33	158	*DG1DRS	*	1,733	43	7	24	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0FAW	*	8,112	97	16	62
*DK7FP	*	75,168	330	33	141	*DL9URZ	14	150,632	639	32	120	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA2CVD	*	7,668	100	16	55
*DG1FBP	*	73,071	269	45	162	*DL9LM	*	44,910	371	17	73	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA1PAT	*	7,300	97	18	55
*DK5LF	*	70,499	356	39	148	*DH2UHF	*	34,865	274	18	77	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0RBO	*	6,966	107	20	61
*DH3RB	*	69,120	303	33	127	*DL1AL	*	27,470	253	16	66	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA1G5	*	3,658	51	17	42
*DD1RB	*	68,499	381	33	144	*DL1AIW	*	9,381	123	12	47	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0TPR	*	9,715	100	20	47
*DL1JGG	*	67,936	354	41	152	*DL5WSB	*	3,240	89	5	31	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0FAW	*	8,112	97	16	62
*DH3MAY	*	67,818	317	36	142	*DL2JH	*	1,020	31	5	25	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA2CVD	*	7,668	100	16	55
*DL8AM	*	67,200	202	45	195	*DH5WB	*	504	18	5	16	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA1PAT	*	7,300	97	18	55
*DL3KVR	*	64,777	237	47	164	*DL7LZ	*	399	17	6	13	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0RBO	*	6,966	107	20	61
*DK1R0B	*	64,656	272	34	110	*DM5OKR	*	336	53	6	36	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA1G5	*	3,658	51	17	42
*DK0GV	*	63,135	244	40	143	*DL6UAA	*	3,701	291	3	18	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA0TPR	*	9,715	100	20	47
*DR0R	*	63,072	235	42	104	*DK2DO	*	312	8	6	7	I2R0T	*	46,376	516	15	73	*I2ZGCB	*	16,990	109	24	59	*PA2CVD	*	7,668	100	16	55
*DJBRS	*	62,846	102	33	86	I2																							

*SP9DTE	*	98,490	412	37	173	[C]CT1ETX	*	40,768	302	21	70	[Y]U5GM	*	19,053	230	17	56	[*EA1ET	*	567,148	990	65	219	SM6BGG	*	63,085	272	35	120	
*SP2VO	*	82,944	349	39	177	[C]CT1FLH	*	2,415	46	11	24	[Y]T2SMS	*	9,858	135	13	49	[*EA3EJI	*	531,377	651	110	359	75SS	*	60,904	285	37	147	
*SP6LUV	*	81,536	247	51	157	[C]CT2FOA	*	1,400	57	26	49	[Y]U0U	3.7	81,810	894	14	76	[*EA3AKA	*	429,680	910	66	262	(OP: SM5CSS)	*	429,680	910	66	262	
*SP2WE	*	76,744	356	30	151	[C]CT1DKS	*	96	4	4	4	[Y]U7W	*	68,338	637	15	79	[*ED7R	*	387,300	680	71	229	SD3A	*	50,050	232	41	134	
*SP3JHY	*	71,912	297	44	134	[C]CT4HA	21	94,607	518	21	68	[Y]T8T	*	67,284	762	13	71	[*OP: YT2CO]	[*AN1A	*	262,208	698	56	216	(OP: SM3JF)	*	97,630	141	24	93
*SP8LNE	*	70,680	337	37	149	[C]CT1COK	*	33,672	160	26	66	[Y]T9DX	*	56,610	761	11	63	[*EA1JO	*	235,304	556	55	213	(OP: SM7BH)	*	10,541	164	20	63	
*SP5ELW	*	69,144	214	57	144	[C]CT1DHM	14	29,197	297	19	78	[Y]Z8A	1.8	25,862	399	9	58	[*EA1BLI	*	192,990	620	50	160	SM0CVI	*	17,460	113	27	70	
*SP6OPZ	*	65,076	388	28	140	[C]CT2GSN	*	61,160	430	18	92	[Y]Z8A	1.8	20,216	174	13	63	[*OP: YT1AA]	*	180,882	545	46	188	SM0KV	*	4,800	90	14	34	
*SP8ONB	*	64,728	312	34	140	[C]CT1GSN	*	20,216	174	13	63	[*OP: N1MM]	*	*	*	*	*	[*EC2AWD]	*	175,760	542	47	161	SM5CEU	21	44,440	254	21	80	
*SO9DIE	*	63,732	303	34	154	YR1C	A	1,422,672	2445	94	334	[MM0XAU]	21	14,880	205	10	52	[*EA1BP	*	172,634	491	48	161	SJ2A	14	150,150	1032	27	83	
*SN4QZOS	*	57,960	371	32	136	[MM0PSL]	14	6,844	120	12	47	[MM0XAU]	7	2,925	67	7	32	[*EA7AA	*	139,712	387	60	176	(OP: SM3WMV)	*	50,050	232	41	134	
*SO9FC	*	57,600	362	30	130	[MZA8]	*	*	*	*	[MM0XAU]	*	*	*	*	*	[*EA4EU]	*	133,509	397	55	178	(OP: SM3JF)	*	14,016	148	19	54		
*SP9CLU	*	55,939	237	38	131	[MM0XAU]	*	*	*	*	[MM0XAU]	*	*	*	*	*	[*EC2AFI]	*	124,160	94	31	129	75SC	*	14,016	148	19	54		
*SP9FT	*	52,248	280	38	130	[Y08RLJ]	*	202,096	674	65	207	[Y]T9DX	*	56,610	761	11	63	[*EA1YR	*	110,229	388	42	139	(OP: SM5CBM)	*	14,016	148	19	54	
*SP9IBJ	*	50,880	299	30	130	[Y07ARY]	*	193,280	650	51	205	[Y]Z8A	1.8	25,862	399	9	58	[*EA3NP]	*	109,026	566	38	124	75SR	*	210	16	3	11	
*SP5ELM	*	49,714	322	22	112	[Y03AK]	*	45,962	291	30	104	[Y]Z8A	1.8	2,320	73	4	25	[*EB5ARP]	*	91,332	371	38	139	(OP: SM6REA)	*	14,016	148	19	54	
*SP8HXN	*	48,675	233	40	125	[Y]Z8A	*	*	*	*	[Y]Z8A	*	*	*	*	*	[*AO1A]	*	90,246	369	40	129	(OP: SM6REA)	*	14,016	148	19	54		
*SN8J	*	46,292	219	45	118	[Y02LFP]	*	28,320	227	29	91	[Y]Z8A	*	*	*	*	*	[*SJ4F]	A	152,848	524	40	193	(OP: SM6REA)	*	14,016	148	19	54	
*SP9MH	*	40,565	242	25	108	[Y04GNJ]	*	16,986	149	25	89	[Y]T9XP	A	2,706	60	8	25	[*EA3EGO]	*	86,548	388	36	118	(OP: SM4DFH)	*	14,016	148	19	54	
*SP8BRE	*	36,288	166	29	79	[Y08OH]	*	6,138	58	18	46	[Y]T9WP	28	26,432	448	12	47	[*AM3A]	*	81,503	436	30	119	(OP: SM6MPV)	*	107,219	238	55	234	
*SP9LAS	*	34,050	194	33	117	[Y07LAS]	*	5,808	105	25	63	[Y]T9ESW	14	170,112	912	30	98	[*EA7AA]	*	14,016	148	19	54	(OP: SM3WMV)	*	14,016	148	19	54	
*SP7TEX	*	33,891	218	32	111	[Y06ADW]	*	1,258	35	10	27	[Y]T9A9	A	706,208	2277	51	181	[*EB5ALB]	*	72,864	341	48	128	75SC	*	66,220	382	35	137	
*SP2GCE	*	33,540	229	27	103	[Y04RDN]	21	289,224	1209	34	122	[Y]T9STX	14	42,964	382	18	74	[*EC7DXN]	*	70,356	353	38	125	75SR	*	31,088	223	23	93	
*SP4ICD	*	30,988	226	24	98	[Y05OEF]	1.8	40,880	587	11	62	[Y]T9STX	*	*	*	*	*	[*EA3EYO]	*	67,408	320	36	140	(OP: SM6REA)	*	14,016	148	19	54	
*SP4ZP	*	29,792	137	37	96	[Y03FRI]	A	1,091,222	1575	96	418	[Y]T9JOF	*	226,860	596	53	146	[*EA7OC]	*	67,192	271	45	103	(OP: SM6CDN)	*	14,016	148	19	54	
*SP31OE	*	27,816	158	28	86	[Y03CZW]	*	816,928	1712	70	322	[Y]T9JAP	A	19,024	567	54	197	[*EA3QLV]	*	45,000	195	40	110	(OP: SM4DFH)	*	14,016	148	19	54	
*SO8LSC	*	25,160	98	46	100	[Y07LFV]	*	374,178	976	62	240	[Y]T9PQJ	*	187,902	597	54	180	[*EA4MA]	*	42,639	161	37	146	(OP: SM6MPV)	*	26,751	198	24	87	
*SP8NR	*	24,250	155	35	90	[Y02MAX]	*	199,692	633	57	201	[Y]T9V2J	*	79,560	305	41	115	[*EA3CZ]	*	66,836	275	36	118	(OP: SM6WMZ)	*	66,220	382	35	137	
*SP2ILD	*	23,324	190	27	92	[Y05PBF]	*	191,416	484	66	218	[Y]T9VAO	*	52,773	283	36	111	[*EA3EC]	*	14,168	139	21	67	(OP: SM6CBM)	*	14,168	139	21	67	
*SP2DKI	*	20,648	137	26	90	[Y07NW]	*	149,784	458	52	185	[Y]T9IJM	*	23,556	261	17	61	[*EA2CE]	*	51,118	250	30	92	(OP: SM6CLU)	*	12,210	20	54	92	
*SN9N	*	19,166	199	19	55	[Y05OHY]	*	134,090	503	44	188	[Y]T9STX	*	29,264	255	22	96	[*EA7EFUN]	*	50,220	188	38	97	(OP: SM3AE)	*	14,016	148	19	54	
*SP8AQD	*	11,234	91	26	56	[Y06HSU]	*	121,983	288	64	155	[Y]T9STX	*	29,264	255	22	96	[*EA1NE]	*	50,112	250	33	75	(OP: SM3AE)	*	14,016	148	19	54	
*Z8ZQ	*	11,234	91	26	56	[Y06HSU]	*	121,983	288	64	155	[Y]T9STX	*	29,264	255	22	96	[*EA1NE]	*	50,112	250	33	75	(OP: SM3AE)	*	14,016	148	19	54	
*SP1DTG	*	11,040	62	36	56	[Y02Y0Y]	*	27,840	130	38	107	[Y]T9STX	*	100,282	423	27	106	[*EA7MT]	*	17,372	81	39	122	(OP: SM6CDN)	*	14,016	148	19	54	
*SO9IWS	*	9,453	137	12	57	[Y05GFG]	*	27,135	143	28	107	[Y]T9STX	*	100,282	423	27	106	[*AN5CNK]	*	15,857	131	26	75	(OP: SM6CDN)	*	14,016	148	19	54	
*SP4AVG	*	8,968	100	19	57	[Y03BLB]	*	25,025	238	21	70	[Y]T9STX	*	100,282	423	27	106	[*AN5CNK]	*	15,857	131	26	75	(OP: SM6CDN)	*	14,016	148	19	54	
*SP3DOF	*	8,904	107	20	64	[Y02LXW]	*	23,736	176	30	99	[Y]T9STX	*	100,282	423	27	106	[*AN5CNK]	*	15,857	131	26	75	(OP: SM6CDN)	*	14,016	148	19	54	
*SP5CQJ	*	8,417	65	21	48	[Y02CQK]	*	4,335	73	13	38	[Y]T9STX	*	100,282	423	27	106	[*AN5CNK]	*	15,857	131	26	75	(OP: SM6CDN)	*	14,016	148	19	54	
*SP85W	*	4,092	53	18	44	[Y05Y0Y]	*	1,175	43	13	34	[Y]T9STX	*	37,276	507	12	62	[*AN5CNK]	*	11,130	88	28	42	(OP: SM6CLU)	*	14,016	148	19	54	
*SO9L	21	189,696	796	33	123	[Y05KDX]	3.7	70,798	730	16	75	[Y]T9STX	*	2,886	81	7	30	[*OP: Y05BAT]	*	11,096	82	24	52	(OP: SM6CLU)	*	14,016	148	19	54	
*SO4HRN	*	75,636	346	28	104	[Y09PKB]	*	2,886	81	7	30	[Y]T9STX	*	*	*	*	*	[*OP: Y55S00]	*	11,096	82	24	52	(OP: SM6CLU)	*	14,016	148	19	54	
*SP2EXN	*	69,875	310	27	98	[Y09PKB]	*	2,886	81	7	30	[Y]T9STX	*	*	*	*	*	[*OP: Y55S00]	*	11,096	82	24	52	(OP: SM6CLU)	*	14,016	148	19	54	
*SN9U	*	39,260	127	29	101	[Y09PKB]	*	180,536	330	17	177	[IM0IK0MB]	A	83,360	2320	53	177	[*IM0IK0MB]	*	18,260	139	35	125	(OP: SM6CLU)	*	14,016	148	19	54	
*SP3LAU	*	22,327	138	22	61	[G]MTV	A	3,605,651	4175	105	495	[Y]T9STX	*	101,374	444	34	148	[*IM0IK0MB]	*	10,150	119	20	50	(OP: UTDX)	*	14,016	148	19	54	
*SP9MRK	*	15,976	141	18	63	[G]M0DFG	A	101,374	444	34	148	[Y]T9STX	*	101,374	444	34	148	[*IM0IK0MB]	*	9,088	82	19	45	(OP: UTDX)	*	14,016	148	19	54	
*SP9EJK	14	73,931	441	24	57	[G]M0EGI	21	54,324	240	21	87	[Y]T9STX	*	197,340	524	57	219	[*IM0IK0MB]	*	17,372	81	39	122	(OP: UTDX)	*	78,690	139	3		

		South Africa												Asia																			
		ZS5ZZ						ZS4JAN						Asiatic Russia						Denmark													
		A		24,108		101		31		53		OK4AB		67,320		317		32		148		D12KCK		448,686		765		80		298			
		28		6,808		73		10		36		OK5LY		59,514		284		41		141		DF5ZV		44,400		663		80		324			
		A		24,108		101		31		53		OK2WED		42,570		268		29		429		L1R		422,499		851		60		281			
		28		6,808		73		10		36		OK1JC		36,803		245		28		121		D1L6Q		368,861		684		73		274			
		A		24,108		101		31		53		OK3C		26,106		130		35		79		(OP: OK2Z)		272,250		643		57		218			
		28		6,808		73		10		36		OK1TP		53,379		720		11		70		DF2LH		267,030		502		67		278			
		A		24,108		101		31		53		OK2FB		28		9,804		143		11		46		D1L9J		448,686		765		80		298	
		28		6,808		73		10		36		OK2FD		67,320		317		32		148		D1L9E		44,400		663		80		324			
		A		24,108		101		31		53		OK2FZ		59,514		284		41		141		D1L9J		44,400		663		80		324			
		28		6,808		73		10		36		OK2GZ		42,570		268		29		114		D1L9M		422,499		851		60		281			
		A		24,108		101		31		53		OK2GZ		42,570		177,320		923		29		114		D1L9N		220,745		502		58		207	
		28		6,808		73		10		36		OK1TP		53,379		720		11		70		D1L9O		216,476		520		60		239			
		A		24,108		101		31		53		OK1TP		53,379		720		11		70		D1L9P		216,000		604		46		213			
		28		6,808		73		10		36		OK1TP		53,379		720		11		70		D1L9Q		200,232		370		76		233			
		A		24,108		101		31		53		OK1TP		53,379		720		11		70		D1L9R		197,690		593		49		183			
		28		6,808		73		10		36		OK1TP		53,379		720		11		70		D1L9S		164,016		367		66		202			
		A		24,108		101		31		53		OK1TP		53,379		720		11		70		D1L9T		161,034		392		53		142			
		28		6,808		73		10		36		OK1TP		53,379		720		11		70		D1L9U		121,088		306		604		48		122	
		A		24,108		101		31		53		OK1TP		53,379		720		11		70		D1L9V		120,070		367		604		132			
		28		6,808		73		10		36		OK1TP		53,379		720		11		70		D1L9W		119,000		367		604		132			
		A		24,108		101		31		53		OK1TP		53,379		720		11		70		D1L9X		118,044		367		604		132			
		28		6,808		73		10		36		OK1TP		53,379		720		11		70		D1L9Y		117,044		367		604		132			
		A		24,108		101		31		53		OK1TP		53,379		720		11		70		D1L9Z		116,034		367		604		132			
		28		6,808		73		10		36		OK1TP		53,379		720		11		70		D1L9A		115,034		367		604		132			
		A		24,108		101		31		53		OK1TP		53,379																			

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Netherlands		YO3JW	*	119,679	557	29	110	EA1BFZ	28	9,936	188	10	36	Hawaii		W2ZQ	1,937,486	1501	109	382					
PA5TT	A	155,952	392	53	175		YO9HG	7	47,310	123	7	31	EA7UU	"	4,485	49	13	26	AF7DX/KH6	28	2,002	43	10	12	
PE1FTV		65,472	329	29	147				EB1BOA	21	365,000	1614	30	95	Indonesia		N2BZP	779,790	813	92	325				
PG3CN		47,520	251	35	109				EA7OT	"	158,379	579	26	105	YC1RIF	21	AB2DE	665,805	768	88	285				
PA0KHS		30,192	203	24	87		ISØAFM	A	446,025	1242	63	222	AN5BBA	"	13,199	152	16	51	KC2NB	653,616	1030	62	205		
PE1RIK		348	29	6	23				EA1CUB	14	224,264	960	32	104			N2LBR	619,824	645	76	273				
PASA		14	214,970	736	35	131		GM0F	A	485,877	906	67	290	(OP: EB5BAA)		KD2I	528,632	632	81	257					
PE1MMZ		198,720	873	30	114		GM0GPZ	*	265,408	820	50	236	EA1DDO	"	138,375	729	25	100	W2XT	204,088	335	58	205		
PA1TT		147,258	583	32	130		GM0DBW	*	150,360	550	32	147	EA1CS	"	108,570	798	20	85	N2NGW	8,322	72	26	47		
PASO	7	2,100	49	7	28		GM4EVS	*	95,764	343	35	143	EA1DVY	1.8	2,040	70	5	29	ZL1BYZ	A	906,430	1439	77	153	
Norway									EA1WXM	"	168,611	845	22	81	ZL4PW	"	ZL2IBF	254,648	463	81	148				
LA3ZPA	A	59,400	356	53	163				EA1WX	"	168,611	845	22	81	ZL3ZA	7	K9RS/3	1,504,524	2744	133	489				
LA7GNA	*	31,500	216	32	94		YU9VK	A	235,584	540	61	227	SA5D	A	355,104	604	76	335	W3MF	1,823,120	1304	108	412		
LN2D	*	9,990	120	18	72		YT0W	14	517,800	2443	36	114	(OP: YU1JW)	"	SM6WET	"	331,150	651	66	302	W3ZGD	500,004	611	88	254
LA/DL2GLA		14	100	3	2	3		YT1R	7	103,090	726	25	97	SA0Q	"	93,176	533	44	128	K300	95,757	246	49	128	
Poland									EA1CSY	"	4,788	46	23	40	WBC3CU		WB3LJ	75,647	217	31	112				
SN1I	A	540,155	1102	69	316		YZ7A	3.7	184,682	1584	19	88	8S0W	"	108,570	798	20	85	LV5V	"	3,012,464	3004	94	270	
SP7LI	*	110,000	435	46	174				SM6WET	"	108,570	798	20	85	(OP: SM0MDG)		(OP: LU5DX)	K3EST/4	3,071,442	2242	117	421			
SP8LX	*	106,872	454	51	193		IT9ZMX	21	420,135	1266	37	148	SM6U	14	431,288	1758	36	133	W3QG/4	A	1,689,877	1299	112	399	
SO9NRV	*	53,836	286	34	138		IT9ORA	*	4,641	66	13	26	SJ0X	3.7	8	2	2	W4NC	1,467,930	1144	114	387			
SO3LMY	*	45,288	241	33	103		IT9BOR	3.7	11,560	157	10	58	7S0X	1.8	48,914	643	10	64	K4PMR	630,360	664	99	309		
SP6RLK	*	42,160	148	41	114		IT9BLB	1.8	38,376	436	10	68	(OP: SM0MDG)		(OP: SM0MDG)	N4TP	263,406	485	77	209					
SP8QED	*	11,102	102	22	69				UA0J	"	1,000	49	13	23	CP1FF	A	4,312	59	12	32	K4IQUO	26,668	83	39	79
SQ3RX	*	1,800	49	13	23				Ukraine				K4FAL			K4FAL	26,329	139	40	73					
SP5TAM	*	1,092	29	10	18		OM3KKF	A	32,851	194	32	101	UU7J	A	6,669,255	5439	163	632	K5NA	3,186,414	2203	149	478		
SO1BVG	*	210	11	6	8		OM5M	3.7	355,979	2219	27	112	UT7QF	"	4,755,642	3919	156	606	K2BA/5	1,331,466	1234	115	359		
SO6VY	*	161	23	7	16				UZ4MK	"	3,024	178	33	106	UT2E	"	1,462,050	2092	103	410	W5WP	1,014,486	1081	104	314
SN1X	28	74,338	562	18	91				UZ1KWA	"	1,000	49	13	23	W5BKA		597,090	654	98	292	W5LCC	109,760	248	63	133
SN2J	*	30,444	253	17	69				UY2ZA	"	68,160	296	37	155	UY2ZBZ	"	21,500	202	17	26	W7VJ	1,042,362	1106	116	282
SN9Z	*	11,466	164	11	52				UY1KWA	"	65,259	418	30	103	UY2BZ	"	1,178	15	33	16	N7RQ	991,416	977	112	292
SP1RKT	21	35,856	215	24	84				UZ1KWA	"	1,000	49	13	23	UY2BZ	"	6,162	88	13	26	W7XP	1,467,930	1144	114	387
SP1NY	*	31,114	167	22	72				UZ1KWA	"	1,000	49	13	23	UY2BZ	"	276	14	6	7	W7WT	465,650	707	84	194
SP7DQR	*	21,432	115	25	69				UZ1KWA	"	1,000	49	13	23	UY2BZ	"	114,341	449	26	83	NTSS/3	321,816	454	77	199
SN7Q	14	447,384	1519	36	132				UZ1KWA	"	1,000	49	13	23	UY2BZ	"	149,460	629	25	69	W7TC	54,648	198	52	86
SP5ELA	7	77,469	560	24	95				UZ1KWA	"	1,000	49	13	23	UY2BZ	"	16,038	99	17	49	N7VS	36,800	163	47	68
SP3GXH	*	39,060	358	16	74				UZ1KWA	"	1,000	49	13	23	UY2BZ	"	1,338,740	1979	32	115	K7DPS	15,403	106	33	40
SP1GZF	3.7	44,440	515	14	74				UZ1KWA	"	1,000	49	13	23	UY2BZ	"	1,338,740	1979	32	115	K7JUN	5,047	49	20	29
SO1K	1.8	23,240	401	8	52				UZ1KWA	"	1,000	49	13	23	UY2BZ	"	1,338,740	1979	32	115	K8AZ	3,372,811	1988	145	502
SP6lHE	*	6,720	165	8	52				UZ1KWA	"	1,000	49	13	23	UY2BZ	"	57,944	619	93	256	K8GL	57,944	49,595	42	19
Portugal									Wales	91,875	798	18	87	CE4CT	A	2,681,984	2706	106	262	K8ZE	4,959	19	38		
CT1IUA	A	1,252,083	1761	75	252				Wales				HK30	A	1,425,690	1954	84	195	Colombia	3,121,525	1023	98	325		
Romania									OCEANIA				YY4RN	21	1,082,685	1000	102	343	KD9ST	1,338,740	1085	120	374		
Y03RU	A	433,719	1027	72	265				Australia				VY4RN	21	1,082,685	1000	102	343	W9AYW/9	13,677	88	36	61		
Y07FB	*	330,400	101	61	219				Brunei				W9AYW/9				NOMI	2,661,612	1985	137	449				
Y050HO	*	261,960	731	54	241				EAE4E	"	1,000	49	13	23	W9AYW/9			NOMA	359,527	508	92	225			
Y04RST	*	198,198	501	60	213				EAE4E	"	1,000	49	13	23	W9AYW/9			WOSV	122,360	292	63	127			
Y03JF	*	188,000	563	58	192				EAE4E	"	1,000	49	13	23	W9AYW/9			KD0S	104,159	234	58	129			
Y09KC	*	81,200	345	43	160				EAE4E	"	1,000	49	13	23	W9AYW/9			KI0Y	10,010	63	30	47			
Y04KCC	*	55,460	322	42	146				EAE4E	"	1,000	49	13	23	W9AYW/9			United States	3,963,246	2534	126	465			
Y09GJX	*	5,226	79	21	57				EAE4E	"	1,000	49	13	23	W9AYW/9			Bahamas	2,235,658	3289	98	239			
Y08HDH	*	558	45	6	25				EAE4E	"	1,000	49	13	23	W9AYW/9			Bermuda	2,290,872	3478	82	236			
Y050AG	28	7,546	130	9	40				EAE4E	"	1,000	49	13	23	W9AYW/9										
Y03RA	21	274,596	1342	31	116				EAE4E	"	1,000	49	13	23	W9AYW/9										
Portugal									EAE4E	"	1,000	49	13	23	W9AYW/9										
Romania									EAE4E	"	1,000	49	13	23	W9AYW/9										
Portugal									EAE4E	"	1,000	49	13	23	W9AYW/9										
Romania									EAE4E	"	1,000	49	13	23	W9AYW/9										
Portugal									EAE4E	"	1,000	49	13	23	W9AYW/9										
Romania									EAE4E	"	1,000	49	13	23	W9AYW/9										
Portugal									EAE4E	"	1,000	49	13	23	W9AYW/9										
Romania									EAE4E	"	1,000	49	13	23	W9AYW/9										
Portugal									EAE4E	"	1,000	49	13	23	W9AYW/9										
Romania									EAE4E	"	1,000	49	13	23	W9AYW/9										
Portugal									EAE4E	"	1,000	49	13	23	W9AYW/9										
Romania									EAE4E	"	1,000	49	13	23	W9AYW/9										
Portugal									EAE4E	"	1,000	49	13	23	W9AYW/9										
Romania									EAE4E																

ASIA												EUROPE												Italy																																			
Asia						Europe						Italy						Europe						Italy						Italy																													
VY2TT	1,291,062	1830	82	239	UA9UZZ	2,532,102	2402	122	381	OE6V	2,677,296	3079	123	455	RK4WWF	610,488	1262	73	293	IR4M	8,072,040	5472	157	665	VC2Z	858,516	1065	89	259	RK20WM	518,800	1047	85	315	IR4YH	4,725,414	3750	141	597																				
VA2ZM	609,733	969	78	215	RK9AVNN	1,874,887	1633	98	363	OE5D	120,080	329	42	110	RK4HTW	251,635	600	62	233	IR4Z	4,061,800	4073	128	447	VA2TG	248,640	689	51	159	RK4H2ZW	237,955	609	66	237	IR5DO	17,207,764	2303	111	33	451																			
VE3RM	4,720,107	3771	112	399	RK9SVF	767,025	963	73	242	EW8ZO	2,988	118	21	62	RK3DXS	93,310	363	43	172	IR5DZ	1,260,504	1809	98	300	VA3SK	2,202,810	2004	114	391	RK9CWW	186,637	384	53	156	IR5JU	595,128	972	85	326																				
VA3VO	492,750	975	72	178	RK9XWQ	88,500	197	48	129	EW8ZZ	330	21	12	18	RK3AWK	77,343	357	44	159	IR5ZH	526,431	982	82	297	VE3MIS	492,360	845	68	196	RK9JWJ	2,059	37	7	22	IR5FI	318,896	859	62	242																				
VE3NB	260,304	408	69	195	RW0LT	218,122	543	71	120	OT5L	3,472,896	3487	125	521	RK4SWA	3	1	1	1	IR5EZ	2,697	115	24	69	VA3NC	204,160	625	48	112	RW0QA	64,500	225	47	103	OT5P	2,421,762	2826	109	420	RK0AWQ	4,407	61	13	26	ON4MCL	360,412	1408	53	186										
VC6S	1,806,256	2979	93	223	Asiatic Russia						Belgium						Finland						Kaliningrad						Latvia																														
VE7HL	16,948	105	33	43	Asiatic Turkey						Croatia						France						Luxembourg						Latvia																														
TI5N	2,036,916	2964	100	254	TA7KA	1,250,096	1499	76	268	9A1P	10,226,322	6555	165	708	TM2Y	6,808,278	4466	145	633	YL7X	1,342,996	2751	77	354	TI8M	937,440	1769	92	178	TC3EC	117,300	322	29	109	9A7A	9,535,840	6308	163	693	TM2T	3,455,432	3599	138	590															
Costa Rica						China						Czech Republic						Luxembourg						Netherlands						Latvia																													
T48K	2,251,820	3136	92	278	BAR	729,036	1369	97	211	9A1A	9,189,582	6259	156	701	TM2S	2,922,840	2942	138	552	YL1S	246,446	647	59	239	T49C	456,596	1494	51	110	BA4T	140,910	585	54	100	9A1B	2,660,640	3594	116	436	F8KDX	1,477,817	2299	87	320															
Honduras						Cuba						Croatia						Germany						Netherlands						Latvia																													
T49R	2,251,820	3136	92	278	BY1OH	690,976	1226	89	197	9A1C	1,423,372	2215	100	421	FK5KD	839,085	1608	63	268	YL8M	982,800	1980	69	267	AT10H	140,910	585	54	100	OK5W	6,903,219	4644	163	686	FK5KR	219,696	833	52	224																				
Honduras						B1P						Czech Republic						Luxembourg						Netherlands						Latvia																													
HO9R	2,339,519	3427	93	236	BY1IDX	65,403	436	50	197	9A0R	41,004	229	36	117	FK5KP	161,325	511	51	188	LN3Z	3,015,040	3158	125	515	P33W	41,275	322	10	107	OK2KDS	450,660	837	71	299	DL2MWB	3,084,359	2616	124	549																				
Mexico						Cyprus						Denmark						Germany						Norway						Latvia																													
6F75A	4,402,830	4479	119	366	AT60MY	15,931,106	7494	142	636	OK5W	6,147,491	4906	148	615	DR5N	3,437,421	3006	129	560	LN3Z	3,015,040	3158	125	515	AT60MY	28,860	176	43	87	OK2LQ	319,770	781	61	281	DL0TUM	1,492,992	1988	91	421																				
Montserrat						India						England						Poland						Norway						Latvia																													
VP2MDG	5,509,275	4845	114	379	4X0C	2,567,632	2503	82	301	OK2LQ	1,425,785	3725	140	545	DR6P	3,437,421	3006	129	560	LN3Z	3,015,040	3158	125	515	AT60MY	15,931,106	7494	142	636	OK2LQ	6,205,510	209	90	390	DL0TUM	1,492,992	1988	91	421																				
VP5DX	7,108,265	5782	124	441	AT60MY	1,583,816	1724	123	265	OK2LQ	1,433,376	1845	108	445	DK3P	1,058,964	1568	90	403	LN3Z	3,015,040	3158	125	515	AT60MY	949,494	1257	110	219	OK2LQ	319,770	781	61	281	DL0TUM	1,492,992	1988	91	421																				
NP2B	2,602,452	3072	88	323	AT60MY	992,207	1195	117	232	OK2LQ	1,425,785	1738	84	337	DK3P	1,058,964	1568	90	403	LN3Z	3,015,040	3158	125	515	AT60MY	992,207	1195	117	232	OK2LQ	1,425,785	1738	84	337	DL0TUM	1,492,992	1988	91	421																				
Turks & Caicos						Israel						Denmark						Poland						Norway						Latvia																													
Virgin Islands						Japan						England						Poland						Norway						Latvia																													
NP2B						Japan						Denmark						Poland						Norway						Latvia																													
AFRICA						African Italy						England						Poland						Norway						Latvia																													
IF9A	2,220,900	2768	117	433	JJ3YBB	860,700	1412	90	195	G6PZ	6,294,802	4874	142	597	DR6P	6,055,515	5436	152	643	LN3Z	3,015,040	3158	125	515	JJ3YKC	231,748	517	89	140	M4A	2,355,210	2509	116	494	DR6PA	3,084,359	2616	124	549																				
Canary Islands						Kuwait						England						Poland						Norway						Latvia																													
EC8AMI	5,125	44	15	26	J62ZPR	1,993,653	1907	129	324	G2F	2,087,895	2476	106	445	DR6PA	6,055,515	5436	152	643	LN3Z	3,015,040	3158	125	515	J62ZPR	1,993,653	1907	129	324	M4G	1,322,510	1812	92	398	DR6PA	3,084,359	2616	124	549																				
Chagos Islands						Qatar						England						Poland						Norway						Latvia																													
VO9X	1,309,440	1479	86	224	J8ARWU	1,639,845	1615	129	276	G5O	1,322,510	1455	126	445	DR6PA	6,055,515	5436	152	643	LN3Z	3,015,040	3158	125	515	J8ARWU	1,639,845	1615	129	276	M4U	1,286,472	2107	84	359	DR6PA	2,026,233	2337	124	509	DR6PA	21,658	429	47	160	DK0ED	4,717	67	17	36	DR6PA	1,727,288	2236	117	461	J48RT	1,698,895	3639	74	317
Madeira Islands						Kampuchea						European Russia						Poland						Norway						Latvia																													
CQ3T	10,224,810	5906	128	490	XU7MDY	809,172	2440	66	162	KU3P	6,251,635	5436	152	643	DR6PA	6,987,640	6348	156	683	LN3Z	3,015,040	3158	125	515	XU7MDY	9,145,059	4806	136	535	DR6PA	2,355,210	2509	116	494	DR6PA	6,987,640	6348</																						

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IR9Y	Sicily	1,854,762	2511	89	385	NQIJ/9	861,672	816	117	329	EB1WW	3,206,142	4460	100	386	
IO9BF		844,669	1189	101	368		25,724	132	38	71	AM1A	1,226,880	2191	81	351	
IR9K		762,879	1499	82	321	W9VT					A01O	1,200,480	2088	81	329	
	Slovakia	7,556,320	5142	159	671	KL7RA	2,264,860	3299	98	212	EG4WW	55,980	340	36	144	
OM8A		9,579,935	5613	168	697	VE9MSR	7,364	141	23	27						
OM7M		2,930,932	3095	118	484	VE2DXY	906,354	1941	70	188						
OM5X		161,700	526	55	190						Alaska	3,778,236	3886	131	527	
OM3RRC	Slovenia	1,082,957	1782	90	373	VE3DC	203,775	582	63	146	VK1CC	2,094,448	2561	99	217	
S50L		59,042	358	27	79	VE6FI	1,581,060	3211	79	181	VK4WR	1,733,501	2020	105	224	
S59ABC						VE6AO	787,635	2164	73	134	VK6ANC	377,600	673	78	158	
	Spain	3,911,544	3904	123	474	VE7SV	3,344,068	4406	110	254	VK2ATZ	201,951	565	69	102	
AM5SSB		3,777,192	3615	123	525	VE7GL	2,051,628	3035	101	238						
E45EA		2,538,336	2993	113	466	V47KP	6,824,720	6546	107	383						
A03A		1,782,900	3046	81	269						St. Kitts & Nevis	3,221,152	3340	123	229	
EH1		1,324,836	1834	84	339											
E22K		513,024	838	74	305						AFRICA	2,278,800	2199	115	285	
EA2BXV		351,486	740	60	223						Canary Islands	29,114,691	12089	160	683	
EA1URO		260,934	595	52	225						Gambia	27,630,123	12037	162	655	
EA1FCR		255,075	783	48	21						South Africa	6,923,028	4889	120	391	
AO4RCT		225,624	946	55	183						Swaziland	6,053,618	4519	121	381	
EH2T		185,928	575	54	200						Argentina	4,059,048	3854	113	331	
EA1GA		107,152	428	41	140						Brazil	1,473,960	1545	96	259	
EA4TV											Colombia	10,660	93	30	52	
	Sweden	466,147	1087	57	284	Z59X					Galapagos Islands	27,743,450	12637	165	610	
SK3IK		422,816	1222	57	235	3DA0WW	6,053,618	4519	121	381						
SK7OA		46,206	301	34	117						Netherlands Antilles	18,789,080	10011	150	530	
SC5L		43,920	243	34	110						PJ4E	13,046,616	8059	134	460	
SK7A											PJ2T					
	Switzerland	758,560	1541	68	284							Cyprus	1,967,190	2459	88	257
HE70FG		107,835	418	51	186							Uruguay				
HB9OK																
	Ukraine	5,363,128	4958	155	633	EK0B	9,745,145	6879	98	447						
UZ2M		2,203,032	2947	104	448	RK9CZO	53,406	254	24	62						
UR4Z		2,023,476	2199	133	530	UA0AZA	2,256,844	2624	105	323						
UT1L		1,012,392	2081	84	352											
UT0AZA		767,142	1368	83	331	B4B	696,864	1686	96	176						
UW4E		148,275	499	51	174	B3C	462,150	1661	80	145						
UR4ZYD		51,997	275	37	126											
UR4PWC		18,620	145	28	67											
MW4C	Wales	36,216	297	23	49	P3F	15,277,836	7494	148	613						
						C4I	6,846,546	3874	134	535						
	OCEANIA															
VK4TI	Australia	844,806	1545	72	134	VR2C	3,737,461	4441	129	340						
						4X0V	9,949,404	6011	126	502						
	Guam	4,805,920	3511	144	346	JA1YPA	2,637,704	2498	127	297						
AH2R		795,900	1592	87	123											
KH2INC																
	Hawaii	1,020,978	1997	81	108	D9K	327,672	1087	73	149						
	Indonesia	5,256	58	11	25											
YB6ZIR		3,876	65	15	23	OE5CWL	64,395	289	37	122						
YB2ZY																
	New Zealand	1,298,590	1589	98	212	T93J	10,662,225	8372	156	649						
ZM4A		9,570	119	13	17											
ZL1AA																
	SOUTH AMERICA															
LP1H	Argentina	6,267,408	4815	122	361	OL1X	4,438,536	3797	132	576						
LQ5H		1,510,554	2298	86	185	Q10UE	1,047,045	2382	81	334						
LW6DW		825,945	1228	75	180	M2W	1,733,312	3048	90	421						
LU4DO		143,395	478	47	72	G4UJS	1,570,194	2073	89	409						
	Brazil	11,033,880	5988	139	521	ES1A	434,763	809	76	263						
ZY7C		2,215,647	2184	113	286	RK3YZA	442,816	1029	66	308						
PP5CF5		937,197	1290	86	223											
PR1T		927,618	1613	67	170											
ZYTEAM																
	Chile	2,225,020	2797	99	223	OF4A	4,212,503	4535	135	518						
XR6T		292,125	648	71	134											
CC2A		211,400	562	62	138	F50DA	1,236,466	2760	89	345						
CE6RCR																
	French Guiana	18,852,327	8182	161	646											
FY5KE																
	MULTI-OPERATOR															
	TWO TRANSMITTER															
	NORTH AMERICA															
K1G	United States	5,689,680	3394	129	499	ITU HQ Geneva	1,847,010	3343	83	352						
K2LE/1		3,239,991	2127	128	473	B7P	3,958,720	3960	145	411						
W1HH		2,917,830	2095	121	449	B1Z	2,196,357	3376	127	294						
NY1O		2,298,192	1819	108	400	IR4X	15,502,044	9104	168	711						
K1KP		1,116,612	1226	84	294	IR5A	1,049,364	1824	85	327						
N2RM		3,993,606	2871	116	411	JR6VHU	6,149,336	4192	159	437						
K2AX		2,547,600	1869	118	432	JA3YBK	5,744,340	3962	152	430						
W2CG		1,054,812	987	86	307	JA7YRR	3,955,068	3247	140	346						
W2V0		572,800	633	92	266											
WE3C		8,799,505	4600	144	571	BV2B	129,270	749	55	84						
NE3F		2,690,898	2043	116	437	LN8W	4,000,542	4452	116	547						
WA3EKL		1,429,780	1272	108	377	T70A	7,075,504	8116	124	528						
K3DI		1,274,196	1062	104	358											
W4RM		4,864,384	3060	132	491	OE2S	8,150,004	6913	158	670						
K5VA		1,527,656	1185	107	374	OT5A	11,060,052	9602	160	653						
K5MDX		158,179	886	101	282	PI4FRG	277,056	704	64	232						
K6IDX		875,680	849	121	300	LN8W	4,000,542	4452	116	547						
W7DR/6		495,742	728	100	199	T70A	7,075,504	8116	124	528						
K7ZSD		1,410,465	1495	120	279	S52ZW	4,313,570	4037	138	592						
N7BV		614,000	830	82	212	EE2W	5,936,068	5590	142	559						
N7VF		164,590	391	76	142	AM5R	4,170,084	4834	134	533						

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