Results of the 1998 CQ WW CW Contest

BY BOB COX*, K3EST

Contesters were hoping that conditions would improve. At least they were hoping that CW would be better than the variable phone weekend had been a month earlier. As the CW weekend approached, thousands of contesters from all over the world were putting the final touches on all their preparations to do well in the contest. What happened during the CW weekend was unexpected and wonderful. For most of the world, conditions were fantastic on *all* bands. The 1998 CQ WW CW will be remembered for some of the best conditions across the spectrum many of us have seen in a long time. This is best summed up by "a contest to remember for all time"—*W9RE (N9RV).*

After all the logs were counted, there were a total of 3345 CW logs, which is only a little down from the SSB total. It seems that CW can generate a lot of fun for many people. So how did it all turn out? Keep reading to find out.

High Power

The battle for the top spot this year was as competitive as ever. Who are the best operators in the world? Each year the box of top ten finishers in the WW gives an answer to that age old question.These operators travel to places around the globe where the propagation might be a little bit better than at your QTH. But once they get there, they have to do everything right, because the pressure of the competition is tremendous.

Jose, CT1BOH (P4ØE), handled the pressure pretty well. He jumped on a jet and made his way to the QTH of Jacky, P43P, which is located on the north shore of Aruba. This is a wonderful station in an ideal location. P4ØE's big low band numbers helped him not only grab the top spot in the world AB, but led to a new all-time record as well. Fighting off the sea's corrosion on the towers and antennas long enough to finish in second place was Ville, OH2MM, who has won the CQ WW more times than one can remember. It was only a little over a year ago when nothing existed at the HC8N QTH except shrubbery. Now Trey, N5KO, has keyed this well-crafted new station to third world high, and the view isn't bad either. Kudos are also due to top ten finishers K4BAI (John set a new North American record.) and DL6FBL—operators of 8P9Z and CN8WW, respectively—for their extremely accurate logs.

The outstanding conditions allowed almost every corner of the European continent a shot at the SOAB standings. GIØKOW and S58A slugged it out for 48 hours, and when it was all done, it was Andy, GIØNWG at KOW who prevailed. The British Isles stations used their low band advantage to capture four of the top ten spots, but super efforts on the higher bands helped the central and southern EU boys to the glory as well.

Jan, 4X1VF.

What was happening in the USA? A lot! Three stations finished with over 7 million points. The competition was the best it has been in years. Top USA honors went to Greg, W1KM. He edged out Bill, W4AN, who in turn just edged out Jeff, K1ZM. Special mention must go to W9RE operated by Pat, N9RV. What a terrific score from Indiana.

Low Power

You can sure work a lot of stations running a hundred watts. Just look at the score of AA3B, who keyed V26K to victory. Bud set an all-time low power record with his fine accuracy and skills. In 1997 it was VP2EEB, and now V26K. What will Bud try this year?

In the low power USA category the old record was totally demolished by Jeff, N5TJ, with over 3.1 megapoints. Is there anything this guy can't win? We took some time to ask Jeff why he has ventured into the low power category; his answers are very interesting: "I am a two-radio man, and if I operate QRO too much interstation QRM to use 2 radios. One radio = no fun. QRO and neighbors don't go together for 48 hours when living on a one-third acre lot. I can't be competitive QRO from home."

We also asked about antennas: "A single crankup w/160 shunt fed, 80 meter sloper, Force 12 402/204 interlaced, homebrew (NW3Z design) 515/510 interlace, A3 on side-mount at 30 feet." While that's not a trapped dipole in the attic, it sure isn't stacked monobanders either. Incredible job, Jeff! Second place went to W2TZ with 2.6 meg, and third slot went to N8AA with 2.4 meg.

In Europe after the dust settled Franc, S59AA, operating from his home in the suburbs of Ljubjana, pushed his station to claim top honors. At the other end of zone 15, second-place Europe went to Gediminas, LY3BA. Third place was won by HA1CW. But the real story in Europe was that all ten top scorers finished within 500K of each other. That's intense!

QRP

QRP is an interesting category. One entrant runs 100 mW while the next runs 5 W. No other category has such power differences. That's what makes QRP fun. It's a personal challenge.

The QRP scores are once again crossing the mega-point level. Congratulations to HA2SX for winning it worldwide with just over 1 meg. Second-place world and first-place USA went to N6MU from . . . *California!* John has done the seemingly impossible; he won *both modes* QRP USA from the West Coast. Wow! And his score of 857k is nothing to be embarrassed about either. Third-place world and second-place Europe went to LY2FE with just under 800k points. These are very impressive scores for stations running just 5 watts. Second- and

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TEAM CONTESTING

1. The Team: 55,395,494. P4ØE (CT1BOH), EA8EA (OH2MM), CN8WW (DL6FBL), C4A (9A3A), WP3R (DL2CC).
2. Handkey Team #2: 27,107,560. K6LA, N2NT, W1KM, WC4E, W9RE (N9RV).
3. Handkey Team #3: 23,826,619. V26K (AA3B), W4AN, K1TO, N4ZR.
4. Handkey Team #1: 21,760,658. DKØMM (DJ7IK), VP5GN (K5GN), AA4S, W6AX (N6IG), N4AF.
5. Contest Club Finland #1: 21,620,846. OH5LF (OH1WZ), OH1MM, PZ5JR (OHØXX), OH6RX, XX9X (OH2PM).
6. Handkey Team #4: 14,026,178. N5TJ, NA2U, K3MD, WT1O, W1WEF.
7. Team Nippon: 13,160,991. FG5BG (JF2DQJ), V8A (JO1RUR), 9M2TO (JAØDMV), 9M8YY (JR3WXA), 9M6NA (JE1JKL).
8. Moscow Contest Team: 10,534,747. RZ3BW, RZ3AZ, RA3CW, RX3APM, RO3A.
9. The Dream Team: 6,874,159. LY2KM, LY2MM, LY2OX, LY5W (LY1DR), LY6M (LY1DS).
10. Team Chihuahua Uno: 4,818,784. W4PA, WO4O, N4IR, NN4T, N4KN.
11. ZA-TE Plus Team: 4,275,169. 9A9A, 9A5W, 9A6A, 9A3GW, 9A2EU.
12. Russian Woodpeckers: 3,931,262. UA1OMS, UA1OZ, RA1OJ, UA1OMX, RW1ON.
13. Contest Club Finland #4: 3,671,941. OH3WW, OH8BQT, OH8LAE, OH2LU.
14. **Contest Club Finland #3: 3,043,554. OHØJJS (OH6LI), EA8/OH2BCI, OHØZ (OH2MAM), OH1F (OH1NOA), OH1F (OH1MDR).
15. Contest Club Finland #2: 2,717,112. OH4JFN, OH5BM, VR2/OH6YF, OH9DX.
16. Contest Club Finland #5: 1,746,629. OH2BSQ, OHØJJS (OH4JLV), OH6KN, OH1ZAA.

***Single Band Team.*

third-place USA went to N1TM and K1RC, respectively.

Assisted

It took a while, but the winner of the assisted category *beat* the all band high power category and by quite a bit. All those years of learning what to do, when to look at the packet screen, when to avoid screen chasing, paid off big time for Charlie, K3WW. Not only did he win, he set a new USA record. Second place went to Yankee Clipper power house KI1G, and Noah, K2NG, took third. The top European scorer was Igor, RZ3BW. This was the first time that the assisted category was won so far east in Europe. Second place went to Bernd, DF3CB, operating from Munich next to a recording studio.Quite a FB effort, Ben! Special mention must be made of the far Pacific effort of KH2/N2NL. Stationed on Guam, he made good use of his location.

Multi-Single

The multi-single category is one of the most competitive. There were over 275 entrants who spent long hours building their stations and training their operators. The 1998 contest final MS results produced some of the most interesting final scores in this category in many years. The world winner was K1AR. Yes, a USA MS took the world top slot. Not only did the three-man crew do that, they set a new North American record. It has been a *long* time since a USA station finished #1. The #2 world and #1 Europe station was TM2Y operating from F6BEE's station in the French countryside. Their log was very accurate. Third-place world was Sig, N3RS, and his crew in eastern Pennsylvania. Second-place Europe and #4 world was EA6IB operating from the lovely isla Ibizia. Congratulations to all the winners, who showed us what is possible when conditions really are good.

Multi-Multi

The multi-multi stations are the beacons of contesting. They provide benchmarks for all of us. A sure sign of improving conditions was that 12 stations broke 20 million, compared to only the top three last year. In a reversal of fortunes, the 6Y2A team defeated the Voodoo group at 5V7A. The 6Y2A crew planned for months what their strategy would be. They used verticals, almost exclusively, set up on the beach of the north coast of Jamaica. Their hard work sure paid off with a new world multi-multi CW record, accomplished from a two-point area! Second place went to the "Voodudes" who did a marvelous job after scrambling to relocate when their hotel was not available.

Three North American stations finished in the top six box, with TI1C operating at TI2CF's QTH coming in third and J6DX at number six. The crew at EA9EA finished second in Africa and number four overall. A61AJ at number five was the highest scoring multi-multi from Asia setting a new Asian record. For the USA championship, Matt and his team at KC1XX finished first again this year, just ahead of W3LPL and K3LR. Europe was lead by DFØHQ, the famous quad station located in eastern Germany. They just edged out the OH2U team formerly known as OH2HE.

In Japan at the mountain QTH of JA5BJC, they cranked up their towers, set up the station, and keyed their way to a new all-time Japanese multi-multi record. Congratulations.

Team Contesting

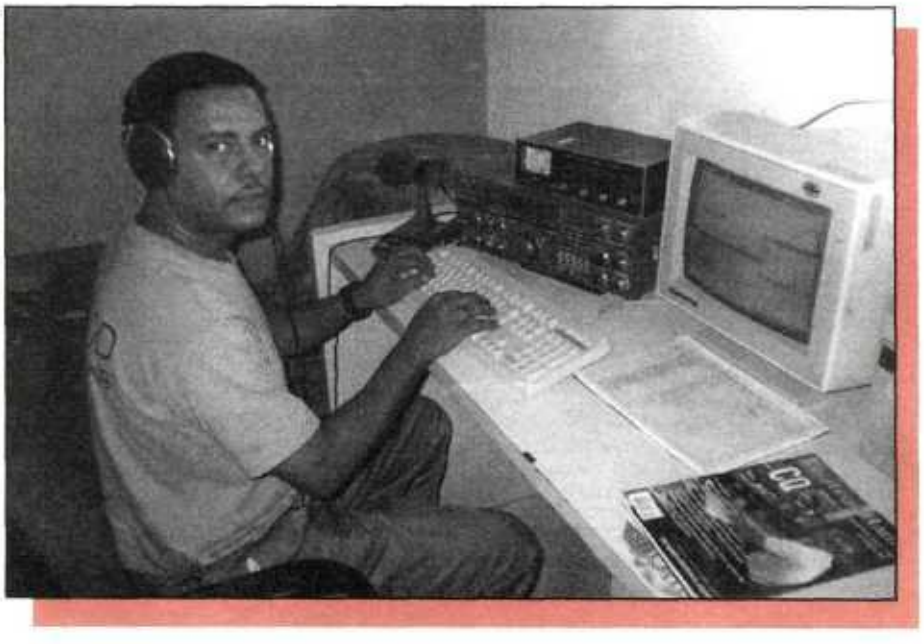
Get five contesters together from anywhere in the world and you have a team entry in the CQ WW. That's just about what "The Team" did with representatives from four continents. Doubling the total score of the second-place team, "The Team," had four finishers in the top ten world box. In terms of real competition, the battle for second through fourth place among Handkey teams was intense. Team Handkey #2 took second place with a group from five USA call areas.

Joining a team does not in any way prevent you from submitting your score for your local club. Team contesting allows for some interesting global alliances and more fun for everyone.

Clubs

A lot of club spirit plus getting everyone on the air, coupled with DXpeditions, is the formula for a winning club effort. The number one club this year was the Yankee Clipper Contest Club. Through a well-orchestrated campaign of phone calls and just plain hard work, this NE USA giant set the all-time club record of 460 million points! Not far behind was perennial club winner, the Frankford Radio Club. The YCCC, FRC, and third-place Potomac Valley Radio Club launched many DXpeditions. Last year we predicted that it might not be long before the top three clubs would top a billion points. Well, this year 1.06 billion points were accumulated by the top three alone!

Setting a new DX club record with over 164 million points generated by a determined club effort was the Bavarian Contest Club. When you look at the results, you will find many DXpeditions mounted by the BCC, second-place finisher Contest Club Finland, and frequent winner, the Rhein-Ruhr DX Association. The



Julio, HI3K.

TROPHY WINNERS AND DONORS CW

SINGLE OPERATOR, ALL BAND
World
P4ØE (Opr. Jose Carlos Cardoso Nunes, CT1BOH)
Donor: Albert Kahn, K4FW
W9IOP Memorial

World Low Power
V26K (Opr. Joseph Trench, AA3B)
Donor: Slovenia Contest Club

World QRPp
Peter Kalocsa, HA2SX
Donor: Gene Walsh, N2AA

World Single Operator Assisted
Charles Fulp, Jr., K3WW
Donor: Snake River Contest Club

U.S.A
Gregory Cronin, W1KM
Donor: Frankford Radio Club

U.S.A. Low Power
Jeffrey Steinman, N5TJ
Donor: North Coast Contesters

U.S.A. - Zone 3
W6AX (Opr. James Pratt, N6IG)
Donor: Bill Fisher, W4AN

U.S.A.- Zone 4
W9RE (Opr. Patrick Barkey, N9RV)
Donor: Bill Fisher, W4AN

Canada
Phil Goetz, N6ZZ/VE2
Donor: CQ Magazine

Caribbean/C.A.
8P9Z (Opr. John Laney III, K4BAI)
Donor: Chuck Shinn, W7MAP

Europe
GIØKOW (Opr. Andrew Williamson, GIØNWG)
Donor: Edward Bissell, W3AU

Europe - Low Power
Franc Bogataj, S59AA
Donor: Scott Jones, N3RA, & Tim Duffy, K3LR

Africa
EA8EA (Opr. Ville Hiilesmaa, OH2MM)
Donor: Gordon Marshall, W6RR

Asia
C4A (Opr. Ivo Pezer, 5B4ADA)
Donor: Chuck Shinn, W7MAP

Japan
Satoshi Hara, JH5FXP
Donor: Japan Crazy Contesters Club

Oceania
9M6NA (Opr. Saty Nakamura, JE1JKL)
Donor: Peahi Contest Club

South America
HC8N (Opr. Trey Garlough, N5KO)
Donor: Venezuela DX Club

SINGLE OPERATOR, SINGLE BAND
World - 28 MHz
ZW5B (Opr. Randall Thompson, K5ZD)
Donor: Joel Chalmers, KG6DX

World - 21 MHz
5X1Z (Opr. Mats Persson, SM7PKK)
Donor: Don Busick, K5AAD (N5JJ Memorial)

World - 14 MHz
Jaromir Klimosz, 5NØ/OK1AUT
Donor: W2JT Memorial (North Jersey DX Assn)

World - 7 MHz
V8A (Opr. Hajime Kato, JO1RUR)
Donor: Alex M. Kasevich, VP2MM/4

World - 3.5 MHz
Martin Huml, IH9/OL5Y
Donor: Fred Capossela, K6SSS

World - 1.8 MHz
VA1A (Opr. Yuri Blanarovich, K3BU)
Donor: Kenneth Byers, Jr., K4TEA

USA - 28 MHz
Robert Patten, N4BP
Donor: Wireless Institute of the Northeast Treasury

USA - 21 MHz
David Donnelly, K2SS/1
Donor: Wayne Carroll, W4MPY

USA - 14 MHz
Walter Kornienko, K2WK
Donor: Northern Illinois DX Association

USA - 7 MHz
David Blaschke, W5UN
Donor: W6AM Memorial (Jan Perkins, N6AW)

USA - 3.5 MHz
Robye L. Lahlum, W1MK
Donor: Bill Feidt, NG3K

USA - 1.8 MHz
Wallace Eckles, W8LRL
Donor: Dave Patton, NT1N, & Mark Obermann, AG9A

Canada (28 MHz)
Lajos Laki, VA3RU
Donor: Radio Amateurs of Canada

Carib./C.A. (28 MHz)
WP2Z (Opr. David Harper, WD5N)
Donor: Snake River Contest Club

Europe - 28 MHz
9HØA (Opr. G. Morris, 9H1EL)
Donor: John Pryor, K4OGG

Europe - 21 MHz
IR4T (Opr. Stafano Brioschi, IK2QEI)
Donor: Robert Naumann, N5NJ

Europe - 14 MHz
OHØZ (Opr. Jukka Kulha, OH2MAM)
Donor: G3FXB Memorial (Maud Slater)

Europe - 7 MHz
Zdravko Balen, 9A9A
Donor: Ivo Pezer, T93A/5B4ADA

Europe - 3.5 MHz
Tine Brajnik, S50A
Donor: K3VW Memorial (Frankford Radio Club)

Europe - 1.8 MHz
IR4T (Opr. Gabriele Macchi, IK4UPB)
Donor: Pat Barkey, N9RV, & Terry Zivney, N4TZ

Japan - 21 MHz
Akito Nagi, JA5DQH
Donor: DX Family Foundation

Japan - 14 MHz
Syuichi Sato, JA7FTR
Donor: Mitsuhiro Nishimura, JA7WME

MULTI-OPERATOR, SINGLE TRANSMITTER
World
K1AR (Oprs. K1AR, K1EA, W2RQ)
Donor: Anthony Susen, W3AOH

U.S.A.
N3RS (Oprs. N2SR, N3ED, N3RD, N3RS)
Donor: Douglas Zwiebel, KR2Q

Canada
VE6SV (Oprs. VE6EX, VE6EKP, VE6EZ, VE6AKY, VE6NTF, VE6NAP)
Donor: Eastern Canadian DX Assn.

Africa
D44BC (Oprs. D44BC, DL2OBF, DK7YY)
Donor: Harry Booklan, RA3AUU

Asia
8Q7DV (Oprs. UA9CI, UA9CDC, UA9CDV, UA9CLB, UA9CFF, UA9CKP)
Donor: Steve Merchant, K6AW

Europe
TM2Y (Oprs. F6BEE, F6ARC, F6FGZ, F6FVY, F5MUX, F5NLY)
Donor: Bob Cox, K3EST

Oceania-Pacific Rim
AH2R (Oprs. KH2/JHØUSD, KH2/JRØBQD, JR7OMD/WI3O)
Donor: Junichi Tanaka, JH4RHF

South America
CE3F (Oprs. CE3/SM3SGP, CE3FIP)
Donor: Tyler Stewart, K3MM

MULTI-OPERATOR, MULTI-TRANSMITTER
World
6Y2A (Oprs. K2KW, N6BT, N6TV, N6BV, AF7Y, K7CO, W4SO, KE7X, AG9A, W9QA)
Donor: K2GL Memorial (Doug Zwiebel, KR2Q)

U.S.A.
KC1XX (Oprs. KC1XX, KM3T, K1GQ, K1DG, N1RR, N2IC, T93M, Christine)
Donor: N6RJ Memorial (Bob Ferrero, W6RJ)

Europe
DFØHQ (Oprs. DK8YY, DL1AUZ, DL3ALI, DL3OI, DL3TD, DL4ALB, DL5ANT, DL5AXX, DL5LYM, DL5MX, DL7URH, DL7VOA, DL8WAA)
Donor: Finnish Amateur Radio League

Japan
JA5BJC (Oprs. JA5BJC, JA5FDJ, JA5JCC, JA5THU, JH5RXS, JR5JAQ, JR5VHU)
Donor: Ryozo Goto, JH3JYS

World - SSB/CW Combined
KH7R: 47,345,300
Donor: Alpha/Power, Inc.

CONTEST EXPEDITIONS
World Single Operator
Thomas Poland, 3A/N9NC
Donor: Yankee Clipper Contest Club

World Multi-Single
VK9LX (Oprs. K6KM, N4RU, NØTT, NM7N, VK2ICV)
Donor: Carl Cook, AI6V

World Mult-Multi
XZ1N (Oprs. WA6CDR, N5IA, AF7O, N7MB, K7SP, WF5T)
Donor: Bill Schneider, K2TT

SPECIAL - SINGLE OPERATOR AWARDS
World SSB/CW Combined
CN8WW (Opr. Bernd Och, DL6FBL)
Donor: Hrane Milosevic, YT1AD

World All Band: Under 21 years old
Marcus Ilvonen, OF3KCB
Donor: Chuck Shinn, W7MAP

SPECIAL EVENT AWARD
JT1A (Oprs. JT1BH, JT1BV, JT1CD, OH1RX, OH2BH, OH8PF)
Donor: CQ Contest Magazine

CLUB
World SSB/CW
Yankee Clipper Radio Club: 460,442,158
Donor: W1WY Memorial (CQ Magazine)

NON-USA SSB/CW
Bavarian Contest Club: 164,991,164
Donor: N6AUV Memorial (No. Calif. Contest Club)

top six clubs set a new standard by amassing 1.4 billion points!

New All-Time CW Records

World: AB P4ØE (CT1BOH); 28 ZW5B (K5ZD); LA V26K (AA3B); Q3.5 HA8LUH; A28 KH2D; A21 OHØJJS (OH6LI); A14 LA9GX; A3.5 YTØA (YT7AO); MM 6Y2A.

Africa: AB EA8EA (OH2MM); L21 EA8NN; MM 5V7A.

Asia: AB C4A (5B4ADA); 21 5B4AGC; A28 JH1FSF; MM A61AJ.

Europe: AB GIØKOW (GIØNWG); 28 9HØA (9H1EL); L28 9A7R; L21 9A6A; Q28 GØTDX; Q21 OH7NVU; Q3.5 HA8LUH; AA RZ3BW; A21 OHØJJS (OH6LI); A14 LA9GX; A3.5 YTØA (YT7AO); MS TM2Y.

CLUB SCORES

USA

Yankee Clipper Contest Club	460,442,158
Frankford Radio Club	432,136,542
Potomac Valley Radio Club	194,995,771
North Coast Contesters	92,006,148
Society of Midwest Contesters	77,380,640
Southern California Contest Club	75,484,465
Northern California Contest Club	67,112,309
Mad River Radio Club	34,331,846
Southeast Contest Club	33,155,304
Central Arizonia DX Assn.	31,423,961
North Texas Contest Club	31,247,010
Florida Contest Group	26,284,422
Southwest Ohio DXA	25,968,544
Florida Contest Club	21,697,656
Western Washington DXC	21,374,682
Minnesota Wireless	19,914,334
Tennessee Contest Group	14,312,616
Southern California DX Club	13,874,813
Texas DX Society	12,379,560
River City Contesters	11,063,399
Oklahoma Dx Assn.	9,536,853
Willamette Valley (W7)	9,029,390
Central Texas DX & Contest club	8,859,146
San Diego Dx Club	8,482,368
Mile High DX Assn. (WØ)	8,354,164
Carolina DX Assn.iation	8,201,653
North Florida DX Assn.	8,072,273
Rochester DX Assn.	8,050,648
Grand Mesa DX Club	7,649,925
Western New York DXA	7,138,765
Central Florida DX Assn.	4,615,468
Kentucky Contest Group	3,579,724
Northern Ohio DX Assn.	3,060,619
CT & RI Contest Group	2,960,756
Hoosier Contesters	2,743,635
Kansas City DX Club	2,509,171
CA Central Coast DX Club	2,502,153
Salt City DX Club (W2)	2,125,217
Ozaukee Radio Club (W9)	1,844,240
Southeast DX Club	1,720,140
Eastern Iowa DX Assn.	1,671,843
World Radio Staff ARC	1,616,619
Mother Lode Contest & DXC (W6)	1,122,346
Northern Arizonia DXA	1,065,454
Sterling Park ARC (W4)	826,844
Northern California DX Club	820,657
West Park Radio Ops (W8)	777,153
Central West VA Club	772,382
Northrop-Grumman RC	669,070
Redwood Empire DXA	660,754
Order of Boiled Owls NY	580,634
Athens (Ohio)	551,952
Heartland DXA (WØ)	527,549
American Red Cross EC	485,542
Yoder ARC (WØ)	460,671
Metro DX Club (W9)	449,585
Mississippi Valley DXCC	446,992
Northern Illinois DXA	391,851
Weekend Warriors Contest Club (W3)	193,800
Tolersville ARC (W4)	56,047
Northern Shenandoah DXA	50,694

DX

Bavarian Contest Club	164,991,164
Contest Club Finland	128,830,292
Rhein-Ruhr DX Assn.	110,563,813
Russian Contest Club	52,841,713
Slovenian Contest Club	50,130,827
Marconi Contest Club (I)	42,255,503
Ural Contest Group (UA9)	40,678,033
Nicosia Contest Group	32,846,224
Japan Crazy Contesters	31,421,879
YU Contest Club	30,497,391
Lithuanian DX Group	29,495,609
UA2 Contest Club	28,317,541
SP DX Club	26,819,602
Ukrainian Contest Club	25,985,197
Kaunas Technical University RC	25,612,343
Croatian Contest Club	23,929,311
Low Land Crazy Contesters (PA)	22,230,065
LYNX DX Group (EA)	22,037,127
French Contest Club	21,951,872
Chiltern DX Assn. (G)	20,282,076
HA DX Club	20,218,058
Top of Europe Contesters	16,419,407
GPDX (CT)	16,180,833
LU4FM Club	13,423,392
Araucaria DX Group	13,419,169
Czech Contest Club	13,146,205
LA Contest Club (LA)	12,060,623
LNDX (F)	11,869,351
Rosario RC (LU)	11,778,628
BC DX Club (VE7)	9,300,810
Moscow City Radio Club	8,739,248
Aruba Radio Club	6,907,354
Z30M Contest Team	5,676,466
YU DX Club	5,593,184
Taganrog Contest Club	5,312,822
Koryazhma DX Company	5,042,310
TuPY (PY2)	4,624,194
Danish DX Group	4,534,267
Udmurita Contest Club (UA4W)	4,156,384
LY CW Contest Club	3,721,963
Lithuanian CW Contest Club	3,721,963
Vojvodina Contest Club (YU)	3,714,692
Far East Island DX Club	3,693,778
Sarajevo Dx Group (T9)	3,679,445
LU4AA Club	3,506,589
Beemster Contest Club	3,392,746
GADX (LU)	3,340,414
GACW (LU)	2,667,138
Osona (EA3)	2,572,218
Bavarian DX Group	2,403,399
SP Contest Club	2,303,207
St Petersburg ARS (UA1)	2,030,209
Southern Germany DX Group	1,843,520
Sao Paolo Contest Group	1,517,596
Sky Sat Contest Club (YU)	1,505,658
Shizuoka DX Assn. (JA2)	1,408,548
Sudaca's Contest Gang (LU)	1,379,455
Northern Lithuania DX Group	1,019,577
North Patagonia DX Group (LU)	995,996
Fox Contest Club (YU)	946,173
LU4HH Club	906,301
YO4KCA Club	816,430
Amsterdam DX Club	684,178
Kharkov Region ARS (Ukraine)	683,200
NOL (ON)	668,279
Ivanovo DX Club	667,072
Macedonia DX Club	512,444
Globus (Ukraine)	454,956
Obninsk"QRU"Club (UA3X)	453,156
S59DBC Club	449,961
Northern Greece Contest Team	433,432
Crimean Contest Club	400,026
SV1SV Club	277,255
ARUK (EX)	234,446
Tallinn Radio Club	164,627
Geo DX Group (DL)	141,927
GUARA (PY7)	69,667

North America: AB 8P9Z (K4BAI); 1.8 VA1A (K3BU); LA V26K (AA3B); L28 WP2Z (WD5N); AA K3WW; A21 AA8U; MS K1AR; MM 6Y2A.

Oceania: L28 WHØV; QA NØKE/KH6; Q7 W8QZA/KH6; AA KH2/N2NL; A28 KH2D; MS AH2R.

South America: AB P4ØE (CT1BOH); 28 ZW5B (K5ZD); L28 CX5AO; Q28 PY2TNT; A28 LU1APG; A21 LU7EAR.

Special Mention

The CQ WW brings out intrepid travelers from all over the world who head out to far-flung QTHs. A fast count of the number DXpeditions for the contest yielded about 100! Of course, there are many that go unnoticed if an exotic callsign is not involved. Why don't you try a DXpedition this year? You can travel light, set up with a vertical on the beach or hotel roof, and work thousands of QSOs. Once you take that first trip and find yourself knee deep in your own pile-up, you will want to go back and back.

All of those operations put their calls into a lot of logs. A group of W5, 6, and 7's made a lot of contesters and DXers happy with XZ1N. Phil, N6ZZ, traveled up to zone 2 and set a new zone record with his effort. Out in the west of the USA, the competition in the seventh call area was fierce. Five stations finished above two million points. N7DR and W7GG finished in a dead heat, with N7DR winning by the point value of one multiplier. Out in the western USA, W6YA and W6NL shifted their efforts to 28 MHz. Jim, W6YA, just edged out Dave, W6NL.

Dave, K2SS/1, and George, WØUA (WØUN), put their considerable talents into 21 MHz. The scores were close, with Dave taking top place. Take a look at the heated competition in Slovenia on 7 MHz. S57AL just edged out S57DX and S52O.

Martti, OH2BH, and friends, and with the efforts of JT contesters, put together a special event station from JT1A. Thanks to the JT's and OH's, many contesters worked the elusive zone 23 for the first time.

A real special mention is made of KH7R, who reprised their outstanding 1997 effort in 1998. They had the highest combined SSB/CW multi-multi total in the contest. Operating from zone 31 and winning the highest MM combined trophy is tough.

The two Russian multi-op groups (mostly UA9's) again headed to south Asia. The P3A group finished just behind A61AJ, while 8Q7DV blasted through on all bands.

Special mention must be made of new QSO records set in the contest. Jose, CT1BOH (P4ØE), made 6853 QSOs, and the MM station 6Y2A had a 40 meter QSO total of 3896 on 7 MHz for a new band record.

Comments

Last year the first UBNs were released to everyone who submitted an electronic log. We

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
P4ØE	351/15/52	727/25/74	1188/30/92	1232/37/114	1821/37/120	1521/32/99
EA8EA	152/13/41	512/24/72	1161/30/84	1295/35/107	1254/38/119	2166/36/120
HC8N	98/13/22	406/23/61	1099/31/89	1223/35/109	1517/37/117	2317/32/120
P4ØW	281/14/45	803/24/85	988/28/92	970/31/103	1268/31/105	1952/31/109
CN8WW	157/9/33	829/19/71	1260/23/83	1067/31/99	1078/32/101	2100/29/102
8P9Z	302/15/45	694/19/66	1223/31/87	1213/33/87	1386/32/87	1681/25/82
C4A	385/17/64	718/21/72	1373/29/97	913/32/87	743/32/87	1376/31/96
A45XR	187/13/44	315/18/65	1084/28/92	871/32/93	1146/35/111	1219/34/121
3V8BB	243/11/57	782/19/75	1107/26/83	1023/31/95	798/32/94	1077/30/81
6V6U	40/7/11	214/15/45	602/22/70	1253/28/89	1196/27/93	2012/29/92

USA TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
W1KM	104/14/47	690/22/79	902/29/89	731/31/96	764/31/90	835/28/87
W4AN	53/12/31	241/20/67	1021/35/99	907/34/106	746/31/104	873/30/102
K1ZM	98/19/56	440/23/76	1134/31/98	503/35/93	598/31/89	1059/30/104
W9RE	26/10/19	157/20/62	1040/31/99	884/36/103	941/33/97	889/27/88
K1TO/4	38/13/30	218/18/64	827/29/100	881/36/101	927/33/108	610/28/92
KQ2M/1	47/10/33	402/20/72	1003/29/90	595/34/106	771/31/101	605/25/98
N2NT	59/12/38	403/17/7	684/30/88	738/35/110	1059/32/99	519/26/88
K3ZO	42/11/31	296/18/64	771/32/91	691/34/99	985/33/100	656/26/85
N2LT	49/12/32	278/16/64	641/34/95	744/27/94	785/31/101	793/27/94
K1RU	20/9/15	220/17/57	840/28/82	700/29/91	898/30/92	812/23/74

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

K1AR	49/13/46	569/27/101	1384/35/136	991/38/151	999/36/135	1083/32/132
TM2Y	208/18/68	568/25/99	1303/36/127	943/35/127	1132/39/136	1326/35/121
N3RS	53/16/51	425/29/100	1202/34/125	793/37/145	892/36/130	856/31/126
EA6IB	77/14/57	640/21/89	1581/35/119	1371/36/128	1169/39/129	1307/34/121
N2NU	59/15/58	198/29/97	912/34/120	912/37/145	1085/37/131	755/30/126
K8AZ	47/17/44	225/25/97	990/36/120	959/37/140	987/34/139	958/30/127

USA MULTI-OPERATOR SINGLE TRANSMITTER

K1AR	49/13/46	569/27/101	1384/35/136	991/38/151	999/36/135	1083/32/132
N3RS	53/16/51	425/29/100	1202/34/125	793/37/145	892/36/130	856/31/126
N2NU	59/15/58	198/29/97	912/34/120	912/37/145	1085/37/131	755/30/126
K8AZ	47/17/44	225/25/97	990/36/120	959/37/140	987/34/139	958/30/127
K1ZZ	67/17/56	418/26/100	741/34/121	931/37/140	919/35/131	645/31/125
K8LX	42/13/35	178/25/90	807/33/113	797/37/138	1061/36/130	410/31/122

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

6Y2A	1139/20/82	1867/28/106	3896/35/132	4099/38/151	3433/31/147	3175/32/120
5V7A	208/15/48	683/25/79	2298/35/118	3526/38/146	4485/39/151	3182/35/137
TI1C	768/17/63	1689/28/97	2976/32/119	3459/38/147	3217/39/147	3304/35/138
EA9EA	52/5/22	1804/22/94	2815/37/132	3225/38/147	2732/38/144	2213/36/124
A61AJ	530/21/67	1359/28/95	2957/35/133	2946/39/146	2331/36/141	2569/36/136
J6DX	627/17/54	1368/26/84	2372/31/103	2986/36/121	3795/36/135	3148/33/123

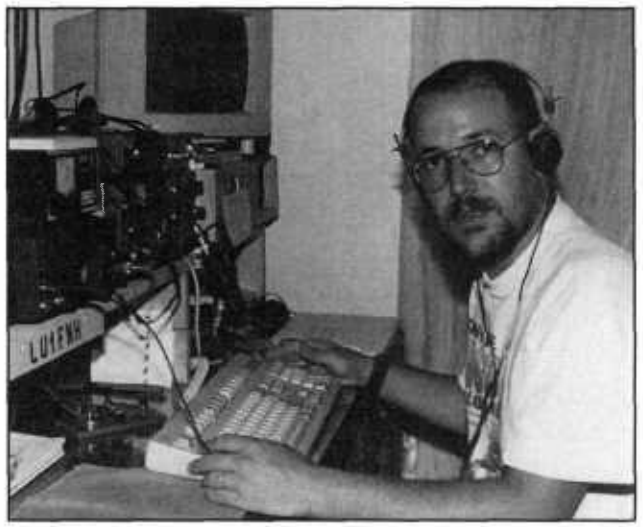
USA MULTI-OPERATOR MULTI-TRANSMITTER

KC1XX	238/21/75	971/29/113	2120/37/142	2228/38/157	1812/39/143	1565/35/133
W3LPL	208/22/70	1003/31/115	1798/37/139	2104/39/158	1743/39/148	1445/34/133
K3LR	200/21/67	660/29/110	1971/38/144	1942/37/156	1773/37/145	1554/35/140
K1KI	144/16/59	809/29/106	1664/37/137	1833/38/152	1764/37/138	1121/33/128
K2LE/1	108/13/41	572/21/95	1389/33/127	1769/37/139	1223/35/123	1104/34/123
K9NS	76/18/36	406/28/95	1229/37/133	1676/39/149	1441/36/134	1075/31/120

ZONE LEADERS SINGLE OPERATOR

Zone	Call	Score	Zone	Call	Score
1	KL7AC	1,263,542	21	A45XR	9,067,345
2	VE2/N6ZZ	7,023,425	22	AT2AJ	34,532
3	W6AX	4,417,426	23	JT1CO	1,235,806
4	W9RE	6,875,625	24	XX9X	3,795,670
5	W1KM	7,379,711	25	JH5FXP	4,857,376
6	6D2X	4,338,864	26	3W7TK	2,720,442
7	3E1AA	7,002,610	27	DU1/DL5ZAH	889,680
8	8P9Z	9,991,863	28	9M6NA	5,979,138
9	P4ØE	14,372,964	29	VK6VZ	451,584
10	HC8N	12,971,803	30	VK2AYD	1,386,240
11	ZW5B	1,991,895	31	NH7A	2,648,535
12	*CE3AA	735,715	32	KH8/N5OLS	2,889,842
13	*LT1F	1,824,312	33	EA8EA	13,717,801
14	GIØKOW	6,961,240	34	5A1A	450,865
15	S58A	6,628,059	35	6V6U	8,127,504
16	EW8EW	2,665,131	36	No Entry	
17	EX8W	4,373,712	37	5H3US	791,427
18	RZ9UA	3,927,066	38	ZS6EZ	5,379,840
19	UAØJQ	2,220,574	39	3B8/DL9GFB	1,024,920
20	C4A	9,904,510	40	No Entry	

** Low Power*



LU1FNH, number one on 21 MHz Argentina.

did the same this year. The difference between the two years is that the contest community is becoming more and more knowledgeable about how errors can occur. With the ever increasing number of tools available to validate the scores and allow the winners to really celebrate their win, there might be a tendency to lose focus about what contesting is about. The UBN is a learning tool which if you take the time can help you become a better contester.

The reason you enter a contest is to have *fun!* To repeat from last year's writeup, "The buzz of the bands coming to life is a siren's song that can't be resisted. The new ones you might work, finding that your signal *can* work a lot of people, and your personal motivation to do well are just the tip of the iceberg. Each contest is a learning experience about propagation, your own skills, and learning from others."

Please send us your log in electronic format. No matter how small or large, mail your CW log via the Internet to <cw@cqww.com> and your SSB log to <ssb@cqww.com>. It is cheaper and less trouble to e-mail your log. Each log helps to make the whole contest better and truer. You can check the CQ WW home page at <http:\\www.cqww.com>. There you will find the latest rules and other interesting information including directions on how to submit an e-mail log entry.

Power

Everyone knows that when you enter a contest, you are on your honor to run the power that your category allows. It is unsettling to see logs that claim low power but clearly are running more than what is allowed. It is a false victory to beat other competitors when they all are running 100 W or less and you decide to run 500 W. We all have heard many reasons to justify this type of thinking: "I live too far from competitive areas."; "How can that top station win? He must be cheating. I have to cheat to be competitive."; "I'll run 500 W because my antenna is not very good." It sure makes life easier and your score bigger if you cheat by running high power. The truth is that almost everyone really does obey the power limitations. It is much more satisfying to obey the rules and find out just how well you can do from your QTH.

EUROPE TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
GIØKOW	249/13/57	662/19/77	1166/32/97	716/37/107	1066/35/110	929/28/103
S58A	113/15/56	416/17/78	1563/34/109	905/35/103	772/33/99	772/34/114
G4BUO	177/15/52	591/18/71	583/25/73	846/31/93	761/31/94	608/28/84
GU6UW	350/8/49	576/15/65	852/23/74	681/24/72	733/27/79	1002/30/89
4N9BW	180/11/51	369/18/66	989/32/92	873/28/85	928/33/102	760/33/94
DL4NAC	66/12/43	220/17/67	1085/34/99	626/29/80	660/32/100	559/30/98
GØIVZ	270/11/52	550/16/65	778/22/72	779/27/92	657/30/97	701/29/85
OH1MM	100/9/40	360/17/77	524/29/89	1080/27/82	820/32/105	495/29/88
OM5M	60/7/35	437/18/67	932/31/89	671/29/80	783/32/86	511/33/81
OH5LF	104/10/49	259/18/62	375/28/83	880/33/90	829/34/101	647/33/107

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

TM2Y	208/18/68	568/25/99	1303/36/127	943/35/127	1132/39/136	1326/35/121
EA6IB	77/14/57	640/21/89	1581/35/119	1371/36/128	1169/39/129	1307/34/121
RU1A	126/19/75	753/35/128	843/38/136	1321/37/139	1085/39/140	451/35/133
SQ6Z	181/18/66	608/26/95	1397/35/125	1304/36/127	992/38/122	660/35/117
DL2NBU	140/18/70	607/25/96	1171/33/112	774/37/130	883/38/131	648/35/125
OM8A	198/17/72	468/18/74	1345/37/122	1232/37/138	791/38/123	635/34/120

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

DFØHQ	832/23/85	1837/32/111	2461/37/138	1976/37/138	1805/37/142	1378/37/137
OH2U	638/23/88	1088/31/120	2101/37/145	2439/39/158	1825/38/146	1287/37/145
RW2F	895/28/94	1622/31/117	2121/38/143	2158/39/146	1275/38/135	1181/37/145
SL3ZV	826/23/89	1092/33/114	2045/35/132	2385/37/137	1593/39/140	673/33/116
DLØCS	731/22/90	1257/33/120	1541/37/130	1519/36/133	1458/38/138	851/36/130
EA4ML	613/16/63	1223/22/82	2106/31/113	2235/36/121	1469/36/120	1102/32/94

TOP SCORES IN VERY ACTIVE ZONES

ZONE 3

W6AX	4,417,426
W6RU	3,141,840
K6LA	2,851,800
*XO7X	2,584,983
N7DR	2,568,104
W7GG	2,561,988
W2VJN/7	2,133,130
N7TT	2,053,425
K4XU/7	2,015,248
AA7A	1,992,810

ZONE 4

W9RE	6,875,625
KØRF	4,029,435
W4PA	3,555,681
K5YAA	2,959,691
K9MA	2,887,213
K9AN	2,781,072
WBØO	2,511,587
KØEU	2,495,724
KØCAT/9	2,375,505
NA5B	2,251,855

ZONE 5

W1KM	7,379,711
W4AN	7,141,453
K1ZM	7,119,308
K1TO/4	6,293,104
KQ2M/1	6,112,282
N2NT	6,086,220
K3ZO	6,054,048
N2LT	5,831,100
K1RU	5,214,551
W3BGN	5,008,964

ZONE 14

GIØKOW	6,961,240
G4BUO	5,073,750
GU6UW	5,047,170
DL4NAC	4,872,882
GØIVZ	4,722,406
G4BJM	3,826,284
OZ1LO	3,779,440
CU2V	3,728,724
EA3NY	3,215,612
TM9C	2,928,660

ZONE 15

S58A	6,628,059
4N9BW	5,016,810
OH1MM	4,374,240
OM5M	4,157,721
OH5LF	3,994,272
HA8FM	3,734,322
SP4Z	3,658,850
LY5W	2,988,110
HA8JV	2,865,016
OH6RX	2,725,254

ZONE 25

JH5FXP	4,857,376
JH4UYB	4,470,430
JH7AFR	3,788,148
JH7WKQ	3,494,880
JS3CTQ	2,842,494
JA8RWU	2,712,231
JH7XGN	2,057,950
JH1OGC	1,979,356
*JEØUXR	1,533,600
*JL1ARF	1,530,450

*Low Power

(Continued on page 70)

Thanks

Once again thanks to the CQ WW log checkers who helped validate the winners and provided insight into many contesting topics. The 1998 crew included: K1DG, K3UA, K3WW, K6NA, KR2Q, N2NC, N3ED, N6ZZ, N9RV, W7EJ. Special advisors were K3ZO, N8BJQ, N2AA, K3LR, N5TJ. Decoding problem logs was led by W3ZZ and his crew of N5NJ, JE1CKA, and I2UIY. Our DX advisors were helpful in offering good advice, providing information, and sorting out potential problems: CT1BOH, DL6RAI, EA3DU, F6BEE, G3SXW, HSØ/G4UAV, I2UIY, JE1CKA, OH2KI, OH2MM, ON6TT, PY5EG, S50A, UA9BA, VE3EJ. The CQ WW call database would not be of such a high quality if it were not for Dick, N6AA. He again spent countless hours to make the CQ WW database the best in contesting. The CQ WW uses the constantly updated software developed by Tree, N6TR, in order to create the database. John, K2MM, created the entire WWW log entry information. His robot worked smoothly in acknowledging receipt of a log. Tack, JE1CKA, has created the appearance and non-log data on <cqww.com>. Translations of the rules into Spanish, Japanese, German, and French were done by EA3DU, JE1CKA, DL6RAI, and F6BEE. Larry, N6TW, was invaluable in retrieving and processing data from e-mail submissions. Thanks to the counsel of John, K1AR, and his hard work to make the CQ WW successful.

Congratulations to all the winners! This year try to get a friend on in the contest. He and you will find the CQ WW a real contesting experience. To participate and have fun is what contesting is all about! 73, Bob, K3EST

DX QRM

ZM2K at 1412Z big shock; assume it was correct . . . ***9HØA.*** We did break the record score of OC Multi-Single which we made last year, if the reduced score is less than we expect . . . ***AH2R.*** I've beaten the guy I was competing against—myself (with last score)! . . . ***CT1BQH.*** Your super contests are the ideal lab for studying the frontiers of QRP operation. Lots of big ears are desperately looking for a multiplier, and a CW CT1 is not very common. I limited it to 100 mw. Maybe 143 QSOs or 20,145 claimed points is not very huge, but I think I could get one of the best scores of points per watt! . . . ***CT1ETT.*** I had a lot of fun with the 3-ele noodle beam (W9XR/W3GH design) at only 15m height. ! . . . ***DF4SA.*** It isn't easy to work single band with mostly just a dipole, but it was fun the whole time, especially if stations like VK9LX, 9M6AAC, and other rare DXers gave me a call. . . . ***DK8FD.***

My second CQWW CW entry from HI land. This was the most wet contest I ever worked . . . ***HI8/DL1HCM.*** Fifty percent more points than the old Low Power DL record, but with condx like these I may end up as #3 in DL only. . . . ***DL2HBX.*** Most of the stations I called often returned at once. Low power and a German callsign seem to be a handicap . . . ***DL2HQ.*** Final tuning of the C31XR beam was made on the tower at minus 15 degrees Celsius. Thanks to Force 12 and SWL Holgi. . . . ***DL4NAC.*** High sunspots and low noise—cool! Tnx again to our friends in Ibiza . . . ***EA6IB.*** Apologies to all who tried a 160m QSO with us and got no reply. A broadcast AM station just 50 meters away on 1584 Khz kept 1.830-1.850 segment quite "clean," making reception almost impossible . . . ***EA9EA.***

My computer was broken after 1300 QSOs! I have now only last part of the log, which I made on paper . . . ***ER5AA.*** No team to use TM1C, so I took the antenna farm for a week for the CQ WW CW. I tried a single band 10m. My CW level is not very high. I trained with PED to improve my code speed. Thanks very much to many American stations who repeated their calls and made a little QRS for me! I was pleased to contact China and Mongolia. 3E1AA was going too fast. It took 10 minutes to understand his call. . . . ***F5ITK.*** QRP is the best; with a good antenna you don't need lots of power . . . ***GØVQR.*** Fifteen meters was in very good shape, but with hindsight I think it would have been even better on 10m. . . . ***G3MXH.*** Enjoyable as always, but I cannot get near GIØKOW's scores from plain old G-land. Great conditions on 10m, but the HF bands are still shutting early. It can get better than this! . . . ***G4BUO.*** This is my best score to date and the first one from GD where I spent a lot of the time CQing for a change and holding the frequency, on 100W! The rotator for the 3-ele Yagi was damaged in the recent storms, so the whole contest had the Yagi facing East. . . . ***GD4UOL.***

Amazed to make over 2000 QSOs; disappointed to not get all 40 zones, as I know zones 2 and 34 were active . . . ***GM4YXI.*** On Sunday afternoon we had all six bands open. Practically impossible to find few hundreds of Hertz free for running . . . ***IKØHBN.*** Really great 15 and 10 meters! For me 1.127 QSOs and 791.700 points was a dream before now. Only wire antennas and 100W, but next year hope better antennas . . . ***IK4EWX.*** Strong signals from USA and many stations from Japan. Great pile-up on 40m for XX9X and XZ1N . . . ***IQ6T (Op.IK6SNQ).*** Wind broke my antenna at half of the contest . . ***IR9T (Op. IT9GSF).*** Finally, I've got zone 01! . . . ***IT9TWC.***

As the condx during test was good, I enjoyed very much. But I lost many mults because of pile-up . . . ***JQ3UDL.*** It was suffering in freezing temperatures—minus 35 both C and F—assembling beams and struggling through 48 hours with three stations, but it was fun to experience that rare zone 23 and meet those who provides it regularly to us Deserving . . . ***JT1A.*** Have not heard for years such a fine contest. I was assisted by my son LZ1ABC . . . ***LZ1AQ.*** Thanks to LZ1DB, the President of "TELZET," for equipping the station with transceiver and amplifier. Great propagation to JA! . . . ***LZ5W.*** Sunspots are back! Had a clean sweep on 15 into NA. Highlight: Getting called by KC1XX and others on 80m . . . ***OE5OHO.***

Missed VK6; heard later a couple of others missed them, too. This time heard only a few mults that could not hear me; the /VE2 was one of them. I hope conditions would be better to Japan next year also on CW. Hear you all next year with a shorter callsign! . . . ***OHØJJS (OH6LI).*** First time trying to put some signals in the air from Argentina. I wish I could get a local call next year . . . ***LU/OHØWW.*** The biggest thrill was to work V63X through W/JA pileup at 2200Z on Sunday just after JX7DFA double mult! . . . ***OH1F (OH1NOA).*** What a great contest! Passing mults to other bands went also very smoothly. The highlight was XU1A answering to our CQ on Sunday 2050Z. . . . ***OH2U.***

The very best of all operators I heard was HC2SL . . . ***OZ8AE.*** After many years of single-band operating, I wanted to try something new in the form of an all-band attempt. By the way, I really appreciate the UBN report. It gives very good advice for self-improvement . . . ***PA3AAV.*** Back to basics: no more DXcluster, no more big Yagi, no more 3-500Z, but had the best time in years! Contesting as it is supposed to be? . . . ***PA3BUD.*** 300 QSOs on first 3 hours! 22 hours of operation and more QSOs than WW SSB—breaking my own record using R7 vertical—no other antenna, no amplifier . . . ***PY2NY.***

Was lucky to find nice conditions on 15m in RA3-land after many years of waiting. Have got joy . . . ***RA3XO.*** We've just finished the construction of 3-el Yagi for 80m 3 hours before the contest began. Antenna worked fantastic! It was the first time for us we've made QSO in contest on 80m with 6D2X, zone 6 through big pileups USA, KL7Y, long path 3 zone W6RJ . . . ***RU1A.*** 80m is a real band . . . ***S50A.*** Better than last year on 10 meters! Couldn't work zones 6 and 29. No aurora. Funny reports received as ENNN . . . ***SP5DDJ.*** I love CW. I am 17-year-old blind boy . . . ***SQ9BZK.*** OT of 82 years. Most QSOs ever in CQ WW SSB or CW. Tried manual and computer log at same time! Previously V2/G6QQ, but now been given local license . . . ***V29QQ (G6QQ).*** Biggest thrill was breaking the pileup on the Azores on 15. Thanks to VE7CFD, for his hospitality and use of his station. Original goal was to break 500 Qs; maybe 1000 Qs will be possible for QRP from the west coast soon. . . . ***VE7CFD (VE7CQK).***

What a weekend for a contest! Tnx to VP5JM . . . ***VP5GN (K5GN).*** This old goat only managed 38 hours operating, which included some equipment problems. Band conditions were great, but I lacked the antennas to take full advantage of the conditions. Next year I'll be better prepared and hope that conditions are as good . . . ***VP5M (N4TO).*** Many thanks to VE1JF (Jim and Hannalore) for hosting my DXpedition to Nova Scotia . . . ***XJ1JF (VE7SV).*** All bands were UFB, and specially 15m and 10m. This is my best effort in this category . . . ***Z31JA.*** First time like "BIG GUN." Excellent conditions on 40m. Sorry for many stations from W6/7 and JA I couldn't copy because my receiver was very poor . . . ***Z39Z.*** I operated from Quartz Hill Amateur Radio Station located on a farm near Wellington. The station is a former Radio New Zealand facility for reception of international broadcasts. ZL6QH is a special callsign for use by members of the Quartz Hill User Group . . . ***ZL6QH (ZL1AZE).*** Thanks to PY5EG for a memorable experience and a new world record! . . . ***ZW5B (K5ZD).***

USA QRM

Goal was 100 countries on single band. Close but no cigar . . . ***AAØTY.*** Thanks to Roger, K1DQV/3, for hospitality and opportunity to test drive his new installation. First contest from U.S. in 12 years. Won the national championship in the last one (ARRL DX CW) from W3GRF. Won't even make top ten this time. What a difference a decade makes! . . . ***KØDQ.*** This is my first CW entry, although I've operated in CQ WW for years now. Hope to make a better showing next year when I get the tower up. Using only verticals can be a real handicap in pile-ups, but it can still be fun, too! . . . ***KØIL.*** Thanks to the sunspot gods for excellent 10/15m condx. That's the most fun I've had on 10 for a long time. Sigs coming from everywhere at once. Had to use the Zepp so I wouldn't miss anything . . . ***K1RC.***

Best conditions in years! And the YCCC really motivated us little pistols to operate! . . . ***K1TH.*** This was the best ever result in 20 years of contesting from Vermont. Better than 50% improvement over last year's score thanks to improved 10/15m antenna setup and propagation. Even more important, we managed to have FUN. Thanks to our hard-working crew . . . ***K2LE/1.*** Motor skills and brain neurons are sharpened up as a result of working single band 40m. Loved it! . . . ***K4LDR.*** The person who said, "There ain't no meters like 10 meters" was certainly right this weekenders generated twice as many points as any other band for me . . . ***K4LTA.*** Wish I could have spent more time on the bands. Did get to enjoy some good 10m openings after local sunrise . . . ***K4RO.***

We should be classed as multi-multi unassisted as we do not use packet, the Internet, or any other outside sources for our contacts as the east coast packet slaves do! All of our contacts came from inside the shack . . . ***K4VX/Ø.*** Welcome back sunspots! This is what we've been waiting for since 1993 . . . ***K5MDX.*** Like so many others this is a personal best for me. Was great fun, even with modest antennas and low power . . . ***K7HBN.*** All I could get up before the contest was a 2-ele 40 at 130 ft. Just thought I would work a few guys and have some fun. Turns out that I was competitive! . . . ***K8DX.*** This looks like a new CQ WW CW M/M record! Conditions were outstanding on all bands! Ed, K1TR, graciously helped out on 20m and on the spotting radio setup. Thanks, Ed! As usual, Matt's XYL, Christine, provided moral support and food throughout the contest . . . ***KC1XX.*** First ever CQ WW on CW. Thanks to all who slowed down for my slow copy. Really got my code speed back up, though. . . . ***KE1FO.***

After 20 years without a single CW QSO I made 175 in just under 13 hours! . . . ***KE1KD.*** This was a great effort for the first time in this contest, with a great team of operators. We missed the first 38 minutes of the contest, as we were still outside raising antennas! . . . ***KG6OK.*** Set a goal to beat my last year's scores and totals. With a modest station I could not hold a run frequency, but maybe that was good, as S&P and the TR bandmap yielded a wealth of multipliers, especially on 10! . . . ***KJ9C.*** What a contest! Can't imagine what the top of the cycle will bring in a few years. Activity this weekend puts claims of dying interest in CW to rest for good! . . . ***N1DG.*** This was my personal best all time from Stateside in CQ WW. . . . ***N2BA.***

Great conditions all around. Highlights: three new countries worked (280), busting pileups. Lowlights: not even hearing XX9 . . . ***N2CU.*** For the most part I was "packet pouncing," but there was so many spots I was kept busy all weekend. Were I a better CW operator I would have been able to run. Conditions were really great and I was hoping to work over 100 countries on 10, 15, or 20 meters . . . ***N2FF.*** Could not find much chance for sleep. Shut down after EU sunrise for an hour, got up to check EU secondary, only to hear JT1 booming through. Hard to believe WW condx can improve much over what they were this weekend, but sorry to see beloved low bands suffer . . . ***N4AF.*** Biggest thrill: finding VK9LX all alone on 20m after midnight and working them first call! . . . ***N5TW.***

This was my first contest from the home QTH using a beam. What a difference over wires! Working XZ1N just after sunrise on 20m (first call) and VK's, VK9LX long path on 15m just before our sunset . . . ***N6RFM/1.*** JA runs went for many hours and running Europe on 10 meters made me feel like I had moved to the east coast! 1999 should be a really great DX and contest year! . . . ***W8TM.*** This is as good as it gets! My best score ever, and longest time awake . . . ***W1WEF.***

What a thrill to break the LP record! This contest was action-

packed the whole time; there really were no totally dead periods.Warmest congratulations to Jeff, N5TJ, who looks to have run away with it. . . . ***W3EF.*** Most impressive score goes to N9RV operating at W9RE . . . ***W4AN.*** More fun than should be allowable. My second run at this game again from the /M platform. My daughter Katy (also a ham) was with me during the trip. Many thanks to all who pulled me out of the mud to make this another memorable event! . . . ***W4CAT (K1KY).*** Yo quiero 10 meters . . . ***W4PA.*** Ninety years old and I still love DX contests! . . . ***W6BA.*** It was wonderful to have openings to Europe (on 10) after such poor conditions in the SSB contest last month. It wasn't quite good enough to hear zones 18, 21, 22, 23, 34, 37, 39 . . . ***W6YA.*** *A contest to remember for all time .* ***W9RE(N9RV).***

Station Operators Multi-Op Single Transmitter

4U1VIC: DJ0IP, DJ1AT, DL1MGB, DL3NCI, DL5RDO, DL5RMH, DL6RDR, DL9NEI, S57NW. **8Q7DV:** UA9CI, UA9CDC, UA9CVC, UA9CLB, UA9CFF, UA9CKP. **9A5D:** 9A3DU, 9A3NY, 9A4NC, 9A4SG, 9A6DX, 9A6KKB. **AA2FB &** K2QMF. **AA3JU &** WF3H. **AE2F &** WR2I. **AH2R:** KH2/JH0USD, KH2/JR0BQD, JR7OMD/WI3O. **CE3F:** CE3/SM3SGP, CE3FIP. **CT3FN &** CT3/DL2HYH. **D44BC &** DL2OBF, DK7YY. **DF0CI:** DL5ZL, DL8AKI. **DF0XG:** DL4FCX, DH8MCB, DJ3XG. **DJ6QT &** DL1EFD, DL1EFO. **DK0FF0:** DL1BZA, DL2BWM, DL7UGN **DK0TZ:** DL1SBF, DL4AAE, DF5EN. **DK0ZG:** DJ5WG, DL6MPG, DL8CYG, DL8MUG. **DK1II &** DL5EBE. **DK5MV &** DL7MAE. **DL0AO:** DJ3TF, DJ5RE, DJ6RN, DK1RP, DK6NJ, DL6RDE. **DL0BO/P:** DF2CH, DJ8BD, DL3DAZ, DL4DZ, DN1DF. **DL2NBU &** DL4RDJ, DL6RAI. **EA5BY &** EA3CB, EA5ABE, EA5BXT, EA5EU, EA5FID, EA5GRV, EA5KW, EA5SM.

EA6IB: EA3AIR, EA3AJW, EA3ALV, EA3DU, EA3GGO, EA3KU, EA5BM, EA5ZF, EA6ACC, EA6FB. **ED7UR:** EA7BJV, EA7ESH, EC7AEN, EC7DZD, EC7AJL. **F5KPG:** F5SDT, F5TLF, F6IFY. **F5PED &** F5CW. **F6ENO &** F6CEL F6DKV F5AKL. **G3TMA &** GØWAT. **GM8C:** GM4WLN, GMØKMD, GMØRLZ, MMØBSM, GMØKWL, GMØAZC. **HA1KRR:** HA1ZZ, HA1ZN, HA1XU, HA1XO, HA3KW, HA1DRR. **HG1S:** HA1TJ, HA1DAE, HA1DAC, HA1AH, HA1DAI. **HSØAC:** HS1BZY, HS1CKC, HSØSCK, HSØGBI, HS6NDK, E21EIC, E21ENF. **HS5AC:** HS1NIV, HSØOAG. **II3T:** IV3TAN, IV3TRK, IV3YYK, IV3SHF, IV3OWC, IV3ZLC, I3BLF, IK2NCJ, IK2JUB. **IK1QBT &** IK1LWL, I1NVU, IK1CLP, I1WXY. **IO2A:** IK2HKT, IK2CIO, I2IFT, IK2AHB, IK2PFL, I2CZQ. **IO2L:** IK2NCF, IK2PIG, IZ2AAJ. **IU2C:** Club. **IY2ARI:** IZ2AVK, IK2UCK, IK2XYU, IK2BUF, IK2NVU, I2MQP.

JA1YQH: JI7GBI, JRØEFE. **JA2ZJW:** JM2NFQ, JE2PCY, JH2CMI, JL2ICO. **JA9YBA:** JR9QNJ, JFØEGG. **JE2YHS:** JA2OLJ, JE2WWB, JG2NUD, JR2JVR. **JF2SKV &** JE6MYI. **JH7PKU:** JH7PKU + JA9SSY, JI1CUP, JN3PYQ, JO1BMV. **JI2ZEY:** JA2BIV, JA2BIL, JM2CCL. **JI3BFC &** JF3GKE. **JJ1ZXE:** JA1RIZ, JG1TCB, JL1RUC, JQ1SQI, JP1OGO. **JR1ZTT:** JK1JHU, 7L1ETP, JM3CRK, 7N3PZJ, JO2HKQ, 7L3CQP, JRØUUU, JRØXHL, 7M4AZB, JM4HHH, JHØKHR, K.Hiromi and Y.Megumi. **JY9QJ &** DL5MBY. **KØZM &** KØVXU. **K1AR &** K1EA, W2RQ. **K1ZZ &** K1RO, N1RL. **K2TE &** K1HI. **K2XR &** WB2BHC, WB2WIK, K2OWR, N2YFH. **K3PH &** W3MF. **K3TUP &** KJ3L, ND8L, WA3SES, WA3HAE. **K5MDX &** WQ5L, W5UE, N5FG. **K6ANP &** N6AD. **K7ON &** NU7I. **K8AZ &** K8BL, K8MR, K8NZ, K8PP, W8CAR, W8GN, W8KIC, KG8TS, KQ8M, N8TR, W1MD, WB8K, WT8C. **K8LX &** K8GM, N8EA, WA8ZDT.

K9KJ & W9YYG. **KA1GJ &** K1VR. **KBØVVT &** KGØUS. **KG6OK &** N6HC, W1HIJ, AA6PW, KI6X, KQ6ES, KJ6ZH, KA6SAR. **KH7R &** KH6ND, K1ER, K9PG, K9NW, WE9V, ND3A, K5TSQ, AH6LV, NH6XO, AH6OZ, AH7R, KH7L. **KL7Y &** WL7E, WA2GO, KL7U. **KQ4QM &** KF4KL. **KVØQ &** NØNR, W7XM, AEØQ. **LA1K:** LA7UJA, LB7JE, LB7VE. **LA8W:** LA4DCA, LA8SDA, LA9EEA, LA9HW. **LU8XW:** LU3XQ, LU6XQI, LU6XOG. **LW6EFP &** LW1EXU, LW9ETY. **LX/DL4SDX &** DL5SEJ, DL4SDW, DL8SCG. **LY3AV:** LY1CQ, LY1CX, LY3BP. **LZ1AQ &** LZ1ABC. **LZ5Z:** LZ1AX, LZ1UQ, LZ1BMV, LZ1HST, LZ3FN, LZ3FR, LZ3SM, LZ4AX, OK2DF. **LZ6A:** LZ2EG, LZ4BC, LZ2HR, LZ2VO. **LZ9A:** LZ2DF, LZ2EV, LZ2HM, LZ2JE, LZ2PL, LZ2PO, LZ2PS, LZ2WF, LZ3TX, LZ4UU. **NØIJ &** AAØBY, WJØM, AAØAW, AAØSI. **NØLM:** WØETT, WØNT. **NØNI:** NØAV, NØAC, KØRX, KØKD, WOØV, WØFLS. **N1AU &** WC1D.

N2LBR & WA1KKM. **N2NU &** K2WI, W2REH, WB2REM. **N2SS &** N2MT. **N3RS &** N2SR, N3ED, N3RD. **N3OC &** WR3Z. **N4RV &** N4RA, KT4W. **N8RA &** NJ2L. **NE3F &** K3ATO. **NY3M &** Dave Long. **OH5M:** OH5CW, OH5MLH, OH5UX, OH5TQ. **OH6NIO &** OH6KZP. **OH6X:** OH6UV, OH6MW, OH6NJ, OH6KSR, OH6MSZ. **OH7M:** OH4LYX, OH4XX, OH6LNI, OH7MS, OH7MHL, OH7KIR, OH7KD. **OK1KCF:** Club. **OK2KDS:** OK2VWB, OK2HIJ, OK2-22266. **OK2KOD:** OK2BNX, OK2BJ. **OK5W:** OK1AEZ, OK1CF, OK1WF, OK1TA, OK1FKD, OK1DDO, TA2ZW, OK1JR. **OL2A:** OK2PDK, OK2HBY, OK2PEM. **OL3A:** OK1AY, OK1CM, OK1DRQ, OK1DX, OK1FCJ, OK1FJD, OK1FWM, OK1MR. **OL5Q:** OK1HRA, OK1FLC, OK1AYE, OK1FFU. **OM3A:** OM3CGN, OM2DX, OM6TY, OM7RU, OM8AM, OM8AW, OMØWR. **OM8A:** OM3RM, OM3GI, OM3LU, OM3JW, OM3EA, OM3XX, OM5RW. **OT8K:** ON4ON, ON5DI, ON5SY, ON6HH, ON4ADZ, ON7PQ, ONL-39Ø8, ONL-4531. **OT8P:** ON4GO, ON4LAM, ON4LDJ, ON5OO, ON6AH, ON6MH, ON6VL, ON6QR, ON7PC, ON5AV, Visitors ON5AV & ON4LZ.

PA3HBB & DF5RF. **PI4CC:** PA3ALK, PA3BSQ, PA3EPD, PBØAIT, PBØAIU. **PI4COM:** PA3BBP, PA3BWD, PA3CAL, PA3EBT, PA3ERC, PA3EWP, PA3FDO, PA3GBQ, JH9GGH. **RKØSXF:** RUØSN, RUØST. **RK3AWE:** RU3DGD, RK3FM, RA3FF, RK3FT. **RK3PXP:** RW3PN, UA3PNO, UA3PBE, RV3PE, UA3PMT, UA3PMW. **RK3WWA:** UA3WU, RV3WW, UA3WGA, RA3WDK. **RK4CWA:** RA4CQ, RW4CG, RA4CTR, UA4COM. **RK4WWA:** UA4WA, RW4WA. **RK4YYM:** Club. **RK6AYN:** UA6AH, RU6BP, RN6BP. **RK9AWN:** RA9AA, RA9AC, RA9AX, RN9AA, RZ9AW, UA9AR. **RK9CWW:** RZ9CO, RU9CO, RA9CMO, RA9CKQ, UA9FQY, UA9CDT, UA9CIR. **RK9CXM:** Vlad Kaliichenko, Arkady Medyakov, Oleg Khabarov, Serge Bankin. **RK9KWI:** UA9KJ, UA9KDZ. **RM6A:** RN6BN, RA6CM, RA6CO, RA6AX, RX6BA, RW6YY. **RN3R:** UA3RAR, UA3RA, UA3RJ. **RU1A:** RW1AC, RV1AW, RU1AA, RN1AM, UA1ARL, RX1AA, RA1ARZ, R-14ØØ, Alex, Vadim. **RY9C:** RW9CF, UA9CGA, UA9CR, UA9DD.

RZ1AWO: UA1ASG, RA1AIM, KB2WKC, UA1ACC, KB2WKD, UA1AQF. **RZ4SWM:** UA4SCB, UA4SBL. **RZ9AZA:** RU9AN, RU9AZ, RZ9AR, RZ9AZ, UA9BA, UA9AJ, UN4L, UN9LG. **S5ØG:** S51F, S56M, S57AW, S57MW. **S52C:** S52E, S52F, S51O, S52P, S58Q. **SK2AU:** SM2VHD, SM2ODB. **SK6FM:** SM6BGA, SM6DYK, SM6FKF, SM6LJU, SM6MCN, SM7BUA. **SNØKRT:** SP9ADU, SP9EMI, SP9UXL, SP9-1753-KA. **SP1KYB:** SQ1DNJ, SQ1EIU. **SQ6Z:** SP3ASN, SP3HRN, SP3RBI, SP3RBR, SP6HEQ, SP8NR. **TA/DL5YM &** DL5YL, DL1CW. **TM2Y:** F6BEE, F6ARC, F6FGZ, F6FVY, F5MUX, F5NLY. **UAØXC:** RW9OX, UA9OSV, UA9OQA. **UD6M:** UA6LO, UA6LV, RW6LNA, UR5MVZ, UA6LFQ, RN6LG, RU6LG, UA4AJF/6, UT6IZ/R6. **UR3IWA:** UR5IFB, UR3IBM, UR5IFX, US2IM, US2IES, US7IM, UY3IM. **UR4LWY:** UR5LJC, UR4LQA, US-L-1Ø46. **UR4LZA:** UY5DV, UR4LEP, UR4LEQ. **UR4MWU:** UR5MB, URØMM, UR4MEU, US5MAX, UR5MIA.

UT3IZZ: UT3IW, UX3IW, UT3IT, UA9KO, UX3IA. **UT7Z:** UR5ZMH, UR7ZZ, UTØZZ, UT1ZZ, UT4ZO, UXØZZ. **V63X:** WA1S, KQ1F, K1XM. **VE6AO:** VE6AMR, VE6CIZ, VE6KC, VE6SI, VE6ZE, VE6BIR, VE6JKZ, VE6RTL, VE6TC. **VE6SV:** VE6EX, VE6EKP, VE6EZ, VE6AKY, VE6NTF, VE6NAP. **VK9LX:** K6KM, N4RU, NØTT, NM7N, VK2ICV. **VQ9IO:** VQ9JT(K5DIY), VQ9QM(W4QM), VQ9SF(N5SF), VQ9SS(N6SS), VQ9ZX(K7ZX), VQ9MG(KB8YHV), Baran. **VU2WAP &** W1NN. **W1NR &** W1BK. **W1SRG:** N1XYR, KE4GI. **W2CG &** K2WJ, W2NO. **W2RE &** AA2DY, N2IX. **W2SEX:** K2YW, K2ZR. **W4PRO &** WB4DNL, W4HIR. **W6XR/2 &** N2AU. **W7LT:** K7TJR, K7ZUM, AL7W, WAØDIM. **W7VJ:** Others. **W8ZA &** WD3A, K8OQL, N8II. **W9JA &** K9GY, K9JY, N9AW, W9VU, W9XT, WG9L. **WN9O &** W9IU. **WR3L &** N3YHC. **WXØB/5:** AD5Q, NM5M, N5NU, K5OT, AD4PU, K5GA. **YT1Z:** YT1WN, YU1YR, YU1PD, Dragan Manojlovic, Ivan Petkovic, Sanja Jocic. **YU1HFG:** YU1ML, 4N1FTD, 4N1FMN, 4N1DX, 4N1YL, 4N1FYL, YT1SA, YT1PNR. **YU7AL &** YZ7EM, 4N7RGH. **YZ7A:** Lacy, YU7CM. **YZ7W:** Club. **ZM2K:** ZL2AZ, ZL2AGY, ZL2BA, ZL2BSJ, ZL2ST, G4PIQ, ZL2DX.

Station Operators Multi-Op Multi-Transmitter

5V7A: G3SXW, G3VMW, G3ZEM, GM3YTS, G4FAM, G4BWP, G4ZVJ, K5VT, KC7V, KY7M. **6Y2A:** K2KW, N6BT, N6TV, N6BV, AF7Y, K7CO, W4SO, KE7X, AG9A, W9QA. **A61AJ &** KE3Q, PA4AO/T94S, T93Y, T97M, W3UR. **BWØR:** BV2KI, BV2KS, JH3GCN, JP1RIW. **DFØHQ:** DK8YY, DL1AUZ, DL3ALI, DL3OI, DL3TD, DL4ALB, DL5ANT, DL5AXX, DL5LYM, DL5MX, DL7URH, DL7VOA, DL8WAA. **DL0CS:** DF1LX, DF9LJ, DJ5LA, DK2OY, DK6WL, DK8LV, DL1QQ, DL8UD, DL8WPX, DL9LBA, HA1AG. **DL0KF:** DL4LBK, DJ3UL, DJ6TK, DJ6TN, DJ7SW, DL8PY, DL3HAX, DK3UA, DF4PA, DL3LBX, DL5XJ, DL2ZT, DF3LZ. **EA4ML:** EA1DAV, EA4AHD, EA4AKQ, EA4AMO, EA4ET, EA4KA, EA4MC, EA4TX, EA7WA, EB4AKI, EB4EPJ, EC4AGN. **EA9EA:** EA9AI, EA9AZ, EA9EU, EA9GK, EA9KB, EA9UG, EA7DPU, EA7GTF, EA7KW, EA7TL, EA5FV, EA5RS, EA4KR, EA2CLU, EA1AK. **ES5Q:** ES5MC, ES5MG, ES5QX, ES5RN, ES5RY, ES7RE. **EW1WN:** EW1FV, EW1MN, EU1CO.

HG6N: HA2RX, HA5BSW, HA6ND, HA6NF, HA6NL, HA6NQ, HA6NY, HA6OB, HA6OI, HA6ON, HA6OY, HA6PX, YO5BRZ. **J3A:** NJ1V, W5UDA, JK3GAD, W1WFZ, N9KAU/2(JF3NRI), K2KQ. **J45T:** SV5TH, SV5VR, SV5ADD, SV5BYT, SV5BYV, SV5DDP, SV5DZS, SV5DZT, KB4PMS, G4OBK. **J6DX:** ACØS, K8NOZ, K9JE, K9LU, K9MMS, KI6T, N2GA, N6JRL, N8BJQ, N8NR, N8SM, N9AG, S5ØR, W8ILC, W8OK, W8QID, WØCG. **JA1YPA:** JA1PEJ, JF1MIA, JH1HLC. **JA1YXP:** JE1CKA, JF7TFK, JG4KEZ, JG7PSJ, JHØNZN, JI2DLF, JL2FJA, JM1UWB, JP1OGL, JQ1BRW, N3NQL, H.Masuda. **JA3YKC:** JP3PZD, JS3QGO, JG4LSR, JJ4HWC, JL4CVB, JE5DTS, JE6EKC, JL6BMJ, JP6RBN, Sakusha. **JA4EKO:** JE3MAS, JG3KIV, JI3OPA, JA4EKO, JF4ETK, JF4FUF, JG4CLV, JH4NMT, JH4VDP, JN4FEU, JR4ISF. **JA5BJC &** JA5FDJ, JA5JCC, JA5THU, JH5RXS, JR5JAQ, JR5VHU.

JT1A: JT1BH, JT1BV, JT1CD, OH1RX, OH2BH, OH8PF. **K1KI &** K1CC, KM1P, W1RM, W2XX, W1NT, N2YHK. **K1RX &** K1EPJ, KR1G, N1TO, AA1SI, KF1V, K1OZ. **K2LE &** W2AX, W2LK, NB1B, N2UN, N1BB, W1MA, W1VE, W1FJ. **K3II &** K3CT, K3TEJ. **K3LR &** W2YQ, K3UA, K8GL, N2NC, N2AA, K3EST, N3RA, KA3JWJ, W9KNI, K9VV, K8CX. **K4VX &** K2VV, N5DX, K5GO, K5LG, KM5G, K9BGL, N9JF, KMØL, KØVBU, NSØZ. **K8CC &** AC8W, K8DD, K8JM, K8MM, K9TM, N8CQA, W8MJ, WD8S. **KB1H &** AA1CE, NB1U, K1EBY, KB1DFB, N1XS, K1NG. **KB1SO &** N1SNB, W1GQ. **K9NS:** AA9D, K9BG, K9DX, K9HMB, K9KM, K9PPY, K9PW, K9QVB, K9RS, KS9U, KS9W, WV9T. **KC1XX &** KM3T, K1GQ, K1DG, N1RR, N2IC, T93M, Christine. **KV1W &** K1IR. **LY5A:** LY2PAJ, LY2FY, LY1BA, LY2CO, LY4CW, LY2KW, LY2PX, LY2IJ. **LY7A:** LYR-346, LYR-728, LY2BMX, LY2OC, LY3DA, LY2FN, LY3KS, LY3HD, LY4AA, LY2KZ, LY2AO, LY2NK.

N2BIM & K2BM. **N2MM &** AA2WN. **NI5M &** K5RT. **NJ4F &** K7SV, K4EC, WA4JUK, K1SE, K4GMH, K5IMC. **OH1AJ:** OH1JM, OH1MKT, OH1WR. **OH2U:** OH1JT, OH2BVI, OH2BZY, OH2HE, OH2IW, OH2JA, OH2RA, OH2XX, OH6CT, OH6DD, OH6EI, OH7BX, OH7JR, OH8KXK. **OL7W:** OK1DUT, OK1FUT, OK1VBA, OK1FDR, OK1DRY, OK1FHL. **OZ5W:** OZ1FTU, OZ3W, OZ9Y. **OZ5WQ &** OZ1BIZ, OZ3PE, OZ3ZW. **P3A:** RA9JX, UA3DPX, RA9JR, RZ3TX, RZ3QU, UT7QF. **RW2F:** RA2FA, RA2FZ, RN2FA, EU1MM, UA2FB, UA2FF, UA2FJ, UA2FM, UA2FP, UA2FZ. **SK6NP:** SM6FUD, SM6BUV. **SL3ZV:** LA8ZJA, SMØTGA, SM2CEW, SM2EKM, SM2EZT, SM2ODB, SM3BDZ, SM3CER, SM3CVM, SM3GSK, SM3JLA, SM3OJR, SM3VDX, SM5CLE, SM3EQF, SM3HFD, SM3MXR, SM3PXO, SM3UKE, SM3SZW, SM3UQD. **SM5HJZ &** SMØGNS. **TI1C:** TI12CF, W6NV, N5RZ, N5ZO, N6TJ, K6NA, N6CW, N7BG, N7NG, OH2KI.

VE3EJ & G4VXE, UT4UZ, VA3NA, VE3FU, VE7CC, VE7NTT, VE7ZO. **WØAIH/9:** KB9S, KTØR, NE9U, KØTG, KUØJ, NØSTL, WAØRBW, KMØO, WRØDK, WØUC, KØAD. **W3EA &** W3CF, W8FJ, WB3FIZ, WQ3E, WT3Q, WU3M. **W3EA &** W3CF, W8FJ, WB3FIZ, WQ3E, WT3Q, WU3M. **W3EEE &** N3BNA. **W3FRC:** N3MKZ, WA2VYA. **W3LPL &** K1HTV, W2GG, K2YWE, ND3F, AA3KX, K3LP, K3MM, K3MQH, K3RA, K3RV, KD4D, K4ZW, K6AW. **W3MM &** W2YC, W3FV. **W3PP &** AA1K, KE3ZR, KS3F, KW3Z, NW3Y, NX3A. **W4MYA &** K4BAM, K4GAU, W4HZ, W4HJ, WA4QDM, WU4G, Lilly. **W6BA &** W6GA, W6KK, AD6DO, K6AM, N6AW, N6KI, N6RT. **W7RM &** KI7Y, K5ZM, N7WA, NØAX, N7EPD, WJ7R, K7NT, W7BX, KK7GW, KR7X, WG7A, N7OU, W7CAJ, DL6UST. **W8AV &** K3JT, K4LT, AF8A, K8KM, K8RF, KU8E, N8DCJ, W8RZ, W8WTS. **WO1N:** K1TTT, K1TWF, K1WD, KC2CIT, KG2JZ, KB1W, N1RHY, N1GA, N2TX. **XZ1N:** WA6CDR, N5IA, AF7O, N7MB, K7SP, WF5T. **ZP9X:** PY2TI, PY5BI, ZP9XG.

TOP SCORES

WORLD

Single Operator

All Band

P40E.....14,372,964
EA8EA.....13,717,801
HC8N.....12,971,803
P40W.....12,108,798
CN8WW.....11,904,984
8P9Z.....9,991,863
C4A.....9,904,510
A45XR.....9,067,345
3V8BB.....8,589,180
6V6U.....8,127,504

28 MHz

ZW5B.....1,991,895
LT1F.....1,824,312
ZY2DX.....838,532
HC2SL.....837,774
LU4FPZ.....789,888
H2ØA.....768,405

21 MHz

5X1Z.....1,361,360
9Y4VU.....1,222,485
5B4AGC.....1,139,608
CX5X.....935,375
ZV5A.....833,671
K2SS/1.....770,355

14 MHz

5NØ
/OK1AUT.....1,456,400
K2WK.....1,007,781
OHØZ.....901,230
OK1RF.....852,488
GM3POI.....820,080
DJ7AA.....768,768

7 MHz

V8A.....952,416
9A9A.....908,694
OT8T.....772,530
9A5Y.....734,570
LZ5W.....639,912
OH9DX.....608,548

3.5 MHz

IH9/OL5Y.....671,703
XJ1JF.....497,280
S5ØA.....458,738
SN3A.....437,904
W1MK.....413,576
5B4/EU1AA.....412,482

1.8 MHz

VA1A.....246,238
IR4T.....159,654
9A5W.....158,652
4X4NJ.....144,045
S5ØU.....134,784
OM5ZW.....117,771

Low Power

All Band

V26K.....7,185,562
N5TJ.....3,157,053
W2TZ.....2,678,662
S59AA.....2,595,303
XO7X.....2,584,983
LY3BA.....2,543,038
W3EF.....2,401,695
HA1CW.....2,331,648
T95A.....2,297,344
KM1X.....2,282,097

28 MHz

CX5AO.....887,556
WP2Z.....806,124
LU5WW.....689,568
9A7R.....536,580
NP3A.....477,664
KP3L.....468,814

21 MHz

EA8NN.....545,100
9A6A.....494,025
IK4DCT.....490,196
CT1BQH.....443,120
LU5FF.....424,799
UA4LM.....389,025

14 MHz

VK2APK.....442,566
S58AL.....388,680
CX9AU.....387,985
EA3BCM.....366,560
IT9XUC.....320,320
JR4PMX/1.....300,960

7 MHz

EA8CN.....519,932
HI3K.....372,372
LZ4ZP.....294,857
4L8A.....294,210
IQ7A.....292,420
UAØCM.....274,500

3.5 MHz

UA9JLJ.....166,200
TA3D.....163,846
UUØJM.....123,250
RA9AE.....119,935
HA8RH.....110,865
UT7CC.....107,507

1.8 MHz

HA3MQ.....49,192
EU1AZ.....47,047
EI7IU.....31,507
YU1RA.....28,535
LY2OU.....26,605
UXØHA.....25,264

QRP

All Band

HA2SX.....1,002,822
N6MU.....857,395
LY2FE.....795,874
N1TM.....701,679
SM3CCT.....666,050
K1RC.....659,880
W3ZZ.....628,304
N7IR.....569,192
NØKE/KH6.....532,575
JR4DAH.....528,363

Assisted

All band

K3WW.....7,963,764
KI1G.....6,477,468
K2NG.....5,951,043
K2TW.....5,685,240
WP3R.....5,495,235
KH2/N2NL.....5,406,660
N3AD.....4,964,695
W2UP.....4,695,670
K1TI.....4,649,790
RZ3BW.....4,642,688

Multi-Operator

Single Transmitter

K1AR.....12,063,114
TM2Y.....10,357,360
N3RS.....9,681,880
EA6IB.....9,522,048
N2NU.....9,313,019
K8AZ.....9,259,470

Multi-Operator

Multi-Transmitter

6Y2A.....39,279,140
5V7A.....34,658,186
TI1C.....32,783,400
EA9EA.....29,532,750
A61AJ.....28,014,492
J6DX.....25,596,764

USA

All Band

W1KM.....7,379,711
W4AN.....7,141,453
K1ZM.....7,119,308
W9RE.....6,875,625
K1TO/4.....6,293,104
KQ2M/1.....6,112,282
N2NT.....6,086,220
K3ZO.....6,054,048
N2LT.....5,831,100
K1RU.....5,214,551

28 MHz

N4BP.....483,705
K4WX.....422,919
K9IG.....415,552
W6YA.....371,159
W6NL.....359,077
W9WI/4.....339,456

21 MHz

K2SS/1.....770,355
WØUN.....713,565
NN4T.....584,824
W9LT/8.....535,804
WØSD.....501,234
K4OAQ.....443,022

14 MHz

K2WK.....1,007,781
W9OF.....382,356
K2BA.....310,542
W8UD.....168,750
AD7U.....149,643
W8TWA.....73,830

7 MHz

W5UN.....542,025
K8DX.....532,105
W3GG.....334,632
KØOD.....161,432
W6KP.....156,457
W6YJ.....104,448

3.5 MHz

W1MK.....413,576
K1LZ.....236,529
WB9Z.....120,797
K5NA.....94,581
N2GC.....77,616
WØSF.....34,040

1.8 MHz

W8LRL.....36,864
W8UVZ.....19,532
W2VO.....17,400
K1VW.....9,028
K4TEA.....5,130
W9PNE.....1,740

Low Power

All Band

N5TJ.....3,157,053
W2TZ.....2,678,662
N8AA.....2,474,012
W3EF.....2,401,695
KM1X.....2,282,097
NA2U.....2,213,580
K1VUT.....2,139,800
WT1O.....1,741,560
K5KLA.....1,437,000
WD5K.....1,420,923

28 MHz

WB4TDH.....208,372
W3EP/1.....167,040
K2MFY.....159,453
N2OO.....156,500
K2ACW.....143,507
K9WA.....114,840

21 MHz

N4CT.....294,602
N4MO.....282,218
K9RN/M.....213,705
AF9DX.....122,884
AAØTY.....122,815
AE9F/6.....113,870

14 MHz

W8UMR.....97,030
WB2DVU.....94,764
N9WI.....17,760
WT8P.....15,643
K6CEO.....8,880
N9GBB.....8,800

7 MHz

N5DO.....102,340
K4LDR.....51,552
W5CWQ.....34,191

1.8 MHz

K9MK.....2,640

QRP

All Band

N6MU.....857,395
N1TM.....701,679
K1RC.....659,880
W3ZZ.....628,304
N7IR.....569,192
KV8S.....503,750
N9CIQ.....383,052
WA3NKO.....292,950
AA1CA.....203,058
K3WWP.....160,800

Assisted

All Band

K3WW.....7,963,764
KI1G.....6,477,468
K2NG.....5,951,043
K2TW.....5,685,240
N3AD.....4,964,695
W2UP.....4,695,670
K1TI.....4,649,790
K5MA/1.....3,961,105
K5KG/2.....3,780,392
K3NZ.....3,586,593

Multi-Operator

Single Transmitter

K1AR.....12,063,114
N3RS.....9,681,880
N2NU.....9,313,019
K8AZ.....9,259,470
K1ZZ.....8,930,278
K8LX.....6,701,035

Multi-Operator

Multi-Transmitter

KC1XX.....22,473,282
W3LPL.....21,271,495
K3LR.....20,897,569
K1KI.....17,808,700
K2LE/1.....13,276,122
K9NS.....11,526,040

EUROPE

All Band

GIØKOW.....6,961,240
S58A.....6,628,059
G4BUO.....5,073,750
GU6UW.....5,047,170
4N9BW.....5,016,810
DL4NAC.....4,872,882
GØIVZ.....4,722,406
OH1MM.....4,374,240
OM5M.....4,157,721
OH5LF.....3,994,272

28 MHz

9HØA.....840,434
GW3YDX.....726,193
G3MXJ.....620,172
GW3WVG.....511,932
T99W.....492,582
IQ4A.....487,494

21 MHz

IR4T.....769,484
DL1IAO.....723,492
GM4YXI.....672,175
OH1F.....607,338
4O6A.....589,842
OM7M.....584,150

14 MHz

OHØZ.....901,230
OK1RF.....852,488
GM3POI.....820,080
DJ7AA.....768,768
SN2B.....759,330
YT7A.....749,394

7 MHz

9A9A.....908,694
OT8T.....772,530
9A5Y.....734,570
LZ5W.....639,912
OH9DX.....608,548
S57AL.....532,526

3.5 MHz

S5ØA.....458,134
SN3A.....437,328
SP7GIQ.....343,476
GMØGAV.....249,000
OH1MA.....240,828
LA6YEA.....209,677

1.8 MHz

IR4T.....159,654
9A5W.....158,200
S5ØU.....134,784
OM5ZW.....117,771
LY3BS.....96,720
LX4B.....95,030

Low Power

All Band

S59AA.....2,595,303
LY3BA.....2,543,038
HA1CW.....2,331,648
T95A.....2,297,344
DL2MEH.....2,240,217
DL2HBX.....2,100,324
YU7CB.....2,025,342
9A2EU.....1,997,082
YO3APJ.....1,954,437
DKØMM.....1,908,816

28 MHz

9A7R.....536,580
9A1AA.....330,544
SP3SUX.....201,117
EI8GP.....191,394
ER1OO.....169,514
T99T.....165,891

21 MHz

9A6A.....494,025
IK4DCT.....490,196
CT1BQH.....443,120
UA4LM.....389,025
OH5BM.....359,531
EI6FR.....246,848

14 MHz

S58AL.....388,680
EA3BCM.....366,560
IT9XUC.....320,320
ES2RJ.....282,757
RU3HD.....274,822
RW4WM.....194,100

7 MHz

LZ4ZP.....294,857
IQ7A.....292,420
S54A.....217,800
S53F.....175,934
YZ7ED.....162,265
LY2BM.....158,136

3.5 MHz

UUØJM.....122,750
HA8RH.....110,865
UT7CC.....107,507
HA7JJS.....95,700
YU1CC.....86,102
OK1FHI.....85,025

1.8 MHz

HA3MQ.....49,192
EU1AZ.....47,047
EI7IU.....31,507
YU1RA.....28,535
LY2OU.....26,605
UXØHA.....25,264

QRP

All Band

HA2SX.....1,002,822
LY2FE.....795,874
SM3CCT.....666,050
DL3KVR.....525,358
OE2S.....507,000
YU1LM.....500,148
IØZUT.....452,403
GØOGN.....446,879
HA7YS.....340,901
F5NZY.....318,024
UR9MM.....304,370

Assisted

All Band

RZ3BW.....4,642,688
DF3CB.....3,640,994
M8Z.....3,295,396
UT5UGR.....3,235,392
YZ7AA.....2,798,640
OK2FD.....2,681,000
RZ3AZ.....2,504,584
SM3EVR.....2,450,682
DL7ON.....2,424,840
S56A.....1,977,570

Multi-Operator

Single Transmitter

TM2Y.....10,357,360
EA6IB.....9,522,048
RU1A.....9,044,874
SQ6Z.....8,775,480
DL2NBU.....7,925,400
OM8A.....7,360,440

Multi-Operator

Multi-Transmitter

DFØHQ.....18,897,540
OH2U.....18,387,820
RW2F.....16,862,016
SL3ZV.....14,495,360
DLØCS.....13,194,288
EA4ML.....12,587,520

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 boldface. (All country terminology reflects the DXCC list at the time of the contest.)

CW RESULTS
SINGLE OPERATOR
NORTH AMERICA
UNITED STATES

W1KM	**A**	**7,379,711**	**4027**	**155**	**488**
K1ZM	**"**	**7,119,308**	**3837**	**169**	**517**
KQ2M/1	**"**	**6,112,282**	**3424**	**149**	**500**
K1RU	**'**	**5,214,551**	**3489**	**136**	**411**
W1WEF	'	4,972,275	2972	148	467
K1AM	'	3,691,149	2472	134	417
KC1F	'	3,540,731	2282	130	417
W1UK	'	2,707,146	2043	116	387
K1ZR	'	2,682,211	2546	109	360
W1ZT	'	2,282,148	1469	128	433
WC1M	'	2,236,600	1922	102	320
KS1J	'	2,046,148	1842	104	332
K1YT	'	1,675,590	1240	113	392
W1TE	'	1,228,110	983	110	360
WØMHK/1	'	1,221,759	959	112	339
KG1D	'	1,014,475	1375	99	286
N1RJF	'	908,269	1121	92	261
W1XK	'	795,960	711	94	308
K1SM	'	605,320	591	101	269
KE1FO	'	547,950	805	73	208
W8HAP/1	'	515,616	581	95	298
W1ZS	'	398,552	527	79	229
N1JP	'	375,873	540	84	275
K1CN	'	329,376	412	79	203
K1RM	'	302,064	615	34	140
K1DWQ	'	242,436	382	68	199
W1FV	'	238,572	478	50	138
NY1L	'	81,840	198	41	124
K2LP/1	'	43,306	132	42	76
N1MEZ	'	42,256	129	44	95
W1OHM	'	30,821	115	38	81
K1MV	'	5,041	51	31	40
WZ1K	'	100	235	62	157
K1SF	28	2,030	27	9	20
K2SS/1	**21**	**770,355**	**1812**	**34**	**125**
W1MK	**3.5**	**413,576**	**1103**	**30**	**106**
K1LZ	**"**	**236,529**	**831**	**25**	**98**
K1VW	**1.8**	**9,028**	**103**	**17**	**44**
***KM1X**	**A**	**2,282,097**	**1642**	**115**	**378**
***K1VUT**	**"**	**2,139,800**	**1514**	**116**	**404**
***WT1O**	**'**	**1,741,560**	**1398**	**109**	**351**
*W1EQ	'	1,320,200	1076	108	352
*K1NO	'	1,257,580	1057	114	340
*N1WR	'	1,133,860	948	108	337
*K1HT	'	1,070,182	925	98	323
*WF1L	'	938,196	913	96	282
*WA1FCN	'	773,836	806	99	307
*K1VSJ	'	419,276	516	79	207
*KD1YN	'	404,735	524	79	226
*AA1QD	'	382,228	612	60	178
*K1PY	'	331,800	494	82	218
*K1TW	'	267,441	391	61	178
*W1ZZ	'	190,076	286	62	182
*NY1E	'	160,832	307	57	167
*K1MAC	'	153,576	376	59	184
*N3KCJ/1	'	152,985	261	62	155
*N1ZPC	'	105,450	248	45	140
*KZ1O	'	104,742	258	59	139
*AB1BX	'	84,980	208	31	109
*KA1O	'	84,525	199	53	122
*N1HOQ	'	62,034	161	41	106
*AA1SU	'	51,554	199	63	110
*N1QDA	'	51,256	164	43	106
*KA1ZFK	'	43,292	159	44	114
*W1AZ	'	42,560	140	47	113
*WB1GEX	'	2,300	33	23	27
***W3EP/1**	**28**	**167,040**	**404**	**30**	**114**
*W1CI	21	4,234	119	13	45
N2NT	**A**	**6,086,220**	**3461**	**152**	**493**
N2LT	**"**	**5,831,100**	**3290**	**147**	**480**
N2BA	**"**	**4,618,074**	**2892**	**142**	**449**
N2RM	'	3,097,326	2286	124	365
N2CU	'	2,497,256	1657	131	410
W2EN	'	2,060,068	1542	129	353
K2NV	'	1,709,050	1238	124	390
K2FU	'	1,529,122	1171	122	356
N2ED	'	1,243,788	1109	120	349
K8FC/2	'	1,028,218	881	124	399
N2WLG	'	942,560	809	111	319
KW2J	'	727,726	731	100	291
WA2C	'	696,865	982	90	265
KE2WY	'	673,728	675	91	261
KC6ETY/2	'	638,469	786	111	348
N2WK	'	503,876	493	117	295
W2ZU	'	437,580	537	62	224
K2CS	'	359,984	495	80	222
W2GDJ	'	359,697	501	92	207
W2YK	'	350,880	508	95	249
WA2YSJ	'	326,695	408	83	210
K2ZD	'	319,587	375	80	227
K2DM	'	256,542	343	92	194
KU2X	'	244,133	361	68	173
W2EZ	'	238,492	350	54	164
K2JL	'	234,240	340	60	184
N2UM	'	206,050	337	96	221
KE2VB	'	204,525	324	56	169
W2HCA	'	202,536	318	63	169
W2QMV	'	159,080	274	54	151
KQ2O	'	141,321	327	49	114
W2BE	'	137,611	264	72	169
WF2Y	'	110,448	191	61	147
W2UDT	'	109,174	305	62	159
KG2BI	'	60,799	176	50	113
K2YR	'	48,910	139	53	93
N2LKF	'	35,910	150	36	99
W2OP	'	22,608	142	48	96
N2MR	'	21,400	81	39	61
K2FR	'	11,009	85	33	68
K2WB	'	312	8	5	8
KD2I	**28**	**335,020**	**940**	**27**	**113**
NA2X	'	128,385	342	29	106
K2WK	**14**	**1,007,781**	**1955**	**39**	**144**
K2BA	**"**	**310,542**	**832**	**35**	**111**
N2GC	**3.5**	**77,616**	**286**	**20**	**79**
W2VO	**1.8**	**17,400**	**106**	**20**	**55**
***W2TZ**	**A**	**2,678,662**	**1942**	**121**	**390**
***NA2U**	**"**	**2,213,580**	**1704**	**111**	**356**
*N2TN	'	1,016,834	754	130	388
*WK2G	'	974,247	1017	92	301
*K2UF	'	891,618	749	109	317
*KM2L	'	562,261	602	80	249
*WA2EYA	'	552,062	612	76	253
*KA2NDX	'	258,300	420	63	189
*N2DBD	'	237,503	344	71	188
*K2SIG	'	220,665	374	62	173
*K2YWE	'	195,529	352	67	184
*AA2WQ	'	175,720	281	65	165
*KC2TA	'	163,680	372	41	114
*N2ST	'	146,048	269	63	161
*W2CVW	'	85,794	182	54	127
*W2FUI	'	50,400	169	27	78
*K2GWL	'	39,176	332	33	85
*W3EH/2	'	33,456	118	35	88
*K2JF	'	29,785	160	53	132
*WA2VQV	'	26,224	111	26	62
*WW2J	'	16,836	118	27	65
*K2SWZ	'	14,507	63	34	55
*K3GYS/2	'	2,700	29	13	23
***K2MFY**	**28**	**159,453**	**448**	**27**	**112**
***N2OO**	**"**	**156,500**	**452**	**25**	**100**
***K2ACW**	**"**	**143,507**	**406**	**28**	**105**
*WA2RZJ	21	42,622	156	27	74
***WB2DVU**	**14**	**94,764**	**319**	**26**	**91**
K3ZO	**A**	**6,054,048**	**3441**	**154**	**470**
W3BGN	**"**	**5,008,964**	**2948**	**149**	**458**
KØDQ/3	**'**	**4,622,540**	**2814**	**139**	**459**
WF3J	'	1,737,024	1277	123	375
W3MC	'	1,624,398	1379	109	338
AA3TT	'	1,452,632	1203	103	325
K3OSX	'	1,351,818	1097	124	353
W3GN	'	1,059,288	972	107	330
W3RJ	'	931,233	1092	96	243
K4JLD/3	'	824,140	671	119	326
W2TN/3	'	706,128	678	104	272
N3KR	'	662,464	667	84	268
WF3M	'	640,224	730	64	240
W3AZ	'	617,474	700	91	283
N3AM	'	611,202	744	76	233
WE3E	'	273,267	503	60	201
W3BYX	'	251,812	370	51	185
W3BEN	'	207,200	360	63	196
W3IZ	'	140,760	296	57	147
NA3K	'	105,968	220	46	133
W3KN	'	65,985	161	45	114
W3AG	'	57,528	136	60	93
K3SX	'	52,605	143	54	113
KB3AFT	'	24,750	91	38	72
W3AS	'	9,240	51	30	40
KB3A	21	23,760	164	22	66
W3GG	**7**	**334,632**	**902**	**33**	**113**
***W3EF**	**A**	**2,401,695**	**1952**	**112**	**365**
***KB3MM**	**"**	**756,000**	**756**	**99**	**333**
*K1EFI/3	'	731,922	657	91	307
*WF3M	'	618,336	724	64	240
*W3DAD	'	467,688	561	72	240
*W3TB	'	365,490	486	84	226
*NI3I	'	347,700	412	61	160
*NY3C	'	329,705	382	82	223
*W7FKF/3	'	307,230	424	50	245
*AD8J/3	'	216,450	362	53	172
*W3EVW	'	194,208	295	72	166
*N3UN	'	180,499	328	76	193
*N3UMA	'	140,526	220	66	156
*N9GG/3	'	107,198	225	55	127
*N3NZ	'	83,053	201	44	113
*W3TWI	'	78,400	210	68	128
*K3TG	'	40,920	121	49	75
*N3RW	28	17,496	126	22	50
***W3CP**	**21**	**106,480**	**325**	**26**	**95**
*KB3AZK	'	14,964	88	15	43
*W3FQE	14	1,540	25	5	17
W4AN	**A**	**7,141,453**	**3841**	**162**	**509**
K1TO/4	**"**	**6,293,104**	**3501**	**157**	**495**
N4AF	**'**	**4,905,260**	**3025**	**140**	**450**
KT3Y/4	'	4,660,193	2969	144	443
WC4E	'	3,914,204	2632	145	457
W4RX	'	3,654,864	2326	149	463
W4MR	'	3,558,746	2244	138	440
			(Opr. N4CW)		
W4PA	'	3,555,681	2308	144	425
AA4S	'	2,867,580	1965	131	403
N6AR/4	'	2,709,564	1804	136	436
K4LTA	'	1,534,689	1402	131	376
AA4NN	'	1,274,400	1255	111	289
W3VT/4	'	1,246,233	907	124	363
W4YE	'	1,209,600	938	108	342
N4XM	'	831,402	724	116	302
W8PC/4	'	772,148	690	100	303
N4MM	'	758,334	628	114	308
K4LQ	'	529,184	552	99	269
K4YR	'	455,175	513	89	226
K9HUY/4	'	357,870	424	78	224
N3JT/4	'	303,163	476	70	199
W2YE/4	'	298,480	405	65	195
K4LM	'	249,033	304	85	238
W4IF	'	234,856	328	66	182
W4RW	'	152,672	266	56	152
K4NA	'	116,204	223	64	145
N8PR/4	'	94,600	193	73	142
W4KYW	'	85,808	175	56	117
N4EK	'	69,440	194	52	108
W4ZYT	'	61,612	154	54	92
K6ETM/4	'	44,895	137	41	82
K4ZT	'	44,022	177	21	66
N4GU	'	31,857	123	34	77
K4UX	'	25,894	92	43	64
K4VUD	'	23,920	75	44	71
KS4YT	'	20,384	75	34	64
KC4FWS	'	10,703	64	29	48
W4OGG	'	9,246	50	22	45
N4UH	'	8,255	55	25	40
K4EP	'	7,056	57	18	38
N4BP	**28**	**483,705**	**1292**	**29**	**106**
K4WX	**"**	**422,919**	**1149**	**27**	**110**
W9WI/4	**'**	**339,456**	**965**	**28**	**100**
WB4OSN	'	325,176	875	30	106
K4EA	'	296,088	829	32	124
K4AMC	'	241,296	676	27	105
AI2C/4	'	174,875	523	26	99
NN4T	**21**	**584,824**	**1358**	**38**	**126**
K4OAQ	**"**	**443,022**	**1152**	**34**	**107**
N4PN	'	394,856	1051	35	119
N4IR	'	295,867	734	31	112
W3AU/4	'	111,186	403	35	107
N4IJ	**14**	**47,726**	**208**	**26**	**72**
K4VV	'	9,062	75	15	31
W4DD	7	11,252	94	14	44
N4SLR	**3.5**	**28,014**	**179**	**19**	**68**
K4TEA	**1.8**	**5,130**	**47**	**16**	**29**
***WO4O**	**A**	**1,381,412**	**1093**	**128**	**354**
***NA4K**	**"**	**1,158,850**	**1016**	**125**	**348**
*W4HR	'	979,925	789	121	354
*K4FPF	'	771,897	661	98	315
*K4IE	'	718,960	675	102	278
*N4PSE	'	578,614	628	99	287
*K7CMZ/4	'	369,360	516	86	238
*N8LM/4	'	353,601	468	90	213
*N3TG/4	'	347,378	435	77	212
*K4MX	'	335,523	423	80	211
*W4WN	'	328,318	424	74	204
*AA4KD	'	176,870	331	61	169
*K4OGG	'	154,635	352	52	131
*K4UVT	'	123,050	212	59	155
*KS4S	'	95,804	224	51	121
*WB4DNL	'	60,028	180	59	113
*K4JYS	'	58,270	115	38	100
*N4GJ	'	35,741	136	32	71
*N4EL	'	29,607	124	48	91
*AC4ZD	'	23,400	130	39	81
*KC4GIA	'	22,680	107	40	100
*W4IDX	'	18,480	87	21	59
*KØEJ/4	'	15,980	87	38	47
*N4KN	'	100	358	32	81
*W8RTU/4	'	100	18	13	13
*KF4ZTJ	'	100	57	32	45
***WB4TDH**	**28**	**208,372**	**605**	**28**	**105**
*K4WW	'	49,203	201	25	74
*W4HM	'	47,957	190	23	68
*K4RO	'	45,844	237	17	56
*W4CAT	'	7,708	73	15	26
***N4CT**	**21**	**294,602**	**695**	**35**	**119**
***N4MO**	**"**	**282,218**	**792**	**34**	**112**
*KN4Y	'	2,574	276	18	48
***K4LDR**	**7**	**51,552**	**222**	**23**	**73**
K5YAA	**A**	**2,959,691**	**1891**	**142**	**421**
NA5B	**"**	**2,251,855**	**1976**	**129**	**356**
AC5KA	'	521,595	569	100	235
K5VG	'	436,150	512	82	243
K5YP	'	393,008	490	88	220
W5WMU	'	176,532	313	57	131
K5NZ	'	164,175	384	55	110
W5IBM	'	75,978	194	63	126
K5ZR	'	15,300	65	36	49
AC5RX	'	12,555	116	45	48
			(Opr. 7M4KSC)		
AE4PB/5	'	3,080	36	24	32
K5SZ	**28**	**230,489**	**631**	**30**	**103**
			(Opr. K5NU)		
NN5ZZ	'	59,986	282	25	64
N8RR/5	**21**	**325,080**	**705**	**37**	**135**
W6PU/5	'	185,008	621	33	91
W5JRP	14	13,338	81	19	38
W5UN	**7**	**542,025**	**1262**	**37**	**128**
K5NA	**3.5**	**94,581**	**334**	**27**	**86**
W5EU	'	21,208	125	21	67
***N5TJ**	**A**	**3,157,053**	**1976**	**149**	**452**
***K5KLA**	**"**	**1,437,000**	**1046**	**132**	**368**
***WD5K**	**'**	**1,420,923**	**1038**	**122**	**375**
*N5AW	'	1,043,474	817	123	355
*KY5N	'	571,272	666	81	231
*W5GAI	'	356,655	433	85	210
*NN5T	'	230,463	365	77	184
*AA5CK	'	208,427	369	86	171
*KN5L	'	100,926	234	59	130
*AF5Z	'	98,280	214	63	126
*WK5K	'	83,328	195	60	108
*AJ4F/5	'	38,316	134	43	81
*N5XT	'	31,152	110	41	77
*K5IUA	'	26,894	126	37	76
*K6AZA/5	'	20,235	97	43	52
W5ZO	**28**	**109,951**	**373**	**26**	**92**
*W5WYN	'	42,873	163	25	68
***N5DO**	**7**	**102,340**	**321**	**30**	**89**
***W5CWQ**	**"**	**34,191**	**166**	**24**	**63**
W6AX	**A**	**4,417,426**	**2733**	**165**	**433**
			(Opr. N6IG)		
W6RU	**'**	**3,141,840**	**2354**	**142**	**352**
			(Opr. KR6X)		
K6LA	**'**	**2,851,800**	**2252**	**128**	**362**
K6XV	'	1,367,409	1348	119	262
NW6S	'	1,066,720	901	122	350
AC6DD	'	596,400	682	115	240
WA5VGI/6	'	592,401	631	115	246
N6IC	'	557,550	580	110	240
K6NR	'	457,164	544	108	198
K6XX	'	415,548	647	94	144
W6FSJ	'	400,452	605	111	191
W6NKR	'	395,870	501	96	214
K6FO	'	382,109	444	113	210
K6GT	'	354,528	567	97	191
N6TW	'	322,624	432	95	189
W6KNB	'	289,413	437	84	159
K6III	'	259,854	411	95	174
WA6URY	'	159,796	320	71	111
W6WB	'	141,075	264	76	133
K6WC	'	136,026	251	73	125
KT6TT	'	130,548	191	65	107
W6OVO	'	101,016	148	65	119
AC6BW	'	90,545	236	70	129
K6ZM	'	75,078	291	50	79
N6IBP	'	68,250	152	70	112
N6VH	'	50,699	159	47	74
W6RFF	'	49,408	166	46	82
W6YM	'	37,700	136	36	64
W6MFC	'	30,956	113	41	68
NY6Y	'	11,913	75	24	33
W6YA	**28**	**371,159**	**932**	**32**	**117**
W6NL	**"**	**359,077**	**1066**	**29**	**108**
K6DB	'	318,816	854	31	113
W6DCC	'	92,800	287	29	87
K6MA	'	23,120	122	23	45
W6ISQ	'	7,524	47	22	35
KC6X	**21**	**201,150**	**532**	**34**	**116**
N6ZB	'	188,985	525	32	97
K6SE	'	87,312	331	30	72
KQ6EH	'	56,280	249	25	59
NU6I	'	21,450	137	20	45
W6MVW	14	13,064	67	28	64
W6KP	**7**	**156,457**	**554**	**29**	**74**
W6YJ	**"**	**104,448**	**335**	**36**	**100**
W7CB/6	'	88,500	300	33	85
W6RCL	'	36,309	172	28	63
N6HY	'	100	80	15	23
KX6E	**1.8**	**13,386**	**171**	**18**	**51**
N2KK/6	'	1,534	29	12	14
***W6JTI**	**A**	**1,099,929**	**905**	**132**	**305**
***K6UM**	**"**	**436,696**	**504**	**118**	**205**
*WN6K	'	398,784	742	85	163
*N6JM	'	222,547	349	83	164
*N6GL	'	169,119	334	81	126
*AA6EE	'	84,165	203	62	93
*KF6GUH	'	74,589	275	54	87
*AA6QY	'	66,178	155	57	106
*W6JTA	'	32,930	134	40	48
*W6PLJ	'	30,674	122	38	60
*N6WR	'	29,832	137	41	47
*KO6DJ	'	4,418	85	23	24
***W6EUF**	**28**	**63,690**	**203**	**28**	**82**
*WA6FGV	'	42,140	178	24	62
*NI6G	'	30,954	174	22	44
*KU6T	'	25,594	137	23	44
***AE9F/6**	**21**	**113,870**	**300**	**28**	**90**
*WD6DX	'	7,955	70	17	26
*K6CEO	14	8,880	92	21	53
N7DR	**A**	**2,568,104**	**1908**	**136**	**348**
W7GG	**"**	**2,561,988**	**2335**	**132**	**297**
W2VJN/7	**"**	**2,133,130**	**1506**	**156**	**359**
N7TT	'	2,053,425	1650	143	332
K4XU/7	'	2,015,248	1570	143	353
AA7A	'	1,992,810	1376	140	403
NI6W/7	'	1,147,180	1149	128	282
KA7T	'	521,265	625	105	190
KS7T	'	426,769	524	92	195
W7YS	'	415,716	556	98	205
W7IIT	'	363,197	499	90	161
W7QN	'	285,855	433	93	162
N7UN	'	234,608	411	96	248
N7JXS	'	164,710	333	59	123
KC7UP	'	130,290	308	72	130
W7ZI	'	43,681	131	42	79
KI7LS	'	858	27	15	18
K7QQ	**28**	**246,737**	**785**	**29**	**108**
K7NPN	**21**	**193,664**	**617**	**31**	**97**
NX7K	'	188,101	588	34	103
W8EQA/7	'	101,878	309	31	102
W7AYY	'	48,024	183	28	64
AD7U	**14**	**149,643**	**517**	**31**	**86**
W8AEF/7	**3.5**	**18,675**	**130**	**23**	**52**
***K7ZA**	**A**	**1,031,274**	**908**	**124**	**290**
***K7ED**	**"**	**953,771**	**1035**	**107**	**222**
			(Opr. WA8RJY)		
*K7HBN	'	809,640	817	114	246
*N7AN	'	697,956	840	94	200
*N7RO	'	654,775	887	87	188
*K7ZZ	'	580,290	710	98	192
*AB7RW	'	254,130	485	65	132
*W7HS	'	183,744	300	78	154
*W7QDM	'	160,506	278	78	144
*WX7G	'	100,398	215	64	110
*W7ZMD	'	77,462	290	60	94
*K7JJ	'	66,248	170	73	123
*KN7T	'	56,048	177	54	70
*WN7J	'	51,620	109	71	107
*WA2OCG/7	'	41,580	143	42	63
*N7YA	'	29,415	124	49	62
*AK7O	'	10,660	164	29	36
*KC7SSN	'	8,550	86	19	26
*W7GTO	'	7,336	49	23	33
*N7OU	28	17,368	130	19	33
*N7TNL	21	2,706	26	16	25
N4ZR/8	**A**	**3,206,500**	**2092**	**129**	**421**
K5IID/8	**"**	**1,121,730**	**993**	**107**	**310**
K8MR	'	1,054,918	1006	108	283
N8MZ	'	973,410	787	117	340
KF8TM	'	889,746	749	111	318
W4NTI/8	'	691,260	600	106	304
K8ER	'	588,907	1727	96	245
WA8TNO	'	490,490	553	92	251
W8KX	'	410,075	477	91	258
W8UPH	'	374,088	516	79	207
W8RSW	'	181,894	699	91	258
AA8PA	'	52,622	112	54	112
K8WK	'	52,560	325	73	167
N8LBI	'	20,910	90	26	33
W9LT/8	**21**	**535,804**	**1334**	**35**	**114**
W8UD	**14**	**168,750**	**643**	**33**	**92**
W8TWA	**"**	**73,830**	**266**	**28**	**79**
K8DX	**7**	**532,105**	**1431**	**36**	**125**
K8MD	**3.5**	**20,325**	**141**	**15**	**60**
W8LRL	**1.8**	**36,864**	**166**	**23**	**73**
W8UVZ	**"**	**19,532**	**120**	**21**	**55**
***N8AA**	**A**	**2,474,012**	**1569**	**133**	**436**
***WB8YJF**	**"**	**1,280,110**	**1147**	**120**	**310**
*K8EP	'	955,269	838	115	298
*W8GOC	'	461,440	512	88	232
*AA8UP	'	389,772	472	95	229
*WU8A	'	309,225	405	74	211
*N8NA	'	296,867	405	75	208
*K8AB	'	221,235	903	71	174
*K8CV	'	205,792	365	61	157
*W8IDM	'	177,372	280	68	166
*W8PN	'	157,762	295	60	142
*W8VE	'	151,984	325	72	164
*N8IA	'	106,480	230	51	125
*KG8DH	'	84,448	194	51	131
*W8CS	'	45,560	144	41	95
*N8WS	'	35,568	117	40	74
*K8LN	'	5,320	49	22	34
*KC8IUM	28	1,612	27	9	17
***W8UMR**	**14**	**97,030**	**307**	**32**	**92**
*WT8P	'	15,643	116	14	39
*AF8C	'	3,367	35	13	24
W9RE	**A**	**6,875,625**	**3936**	**157**	**468**
			(Opr. N9RV)		
K9MA	**'**	**2,887,213**	**1852**	**147**	**406**
K9AN	**'**	**2,781,072**	**1817**	**140**	**418**
KØCAT/9	'	2,375,505	1757	133	362
					(Opr. K9WIE)
WI9WI	'	1,996,749	1733	125	322
W9OP	'	1,546,232	986	137	420
K9ZO	'	1,494,954	1131	139	390
K9CAN	'	1,130,372	858	121	340
WA9TPQ	'	731,352	788	105	267
K9UQN	'	722,007	703	93	270
K9BWI	'	678,612	847	85	206
KI9A	'	327,915	462	92	223
W9KTP	'	119,054	385	70	171
AA9TK	'	14,364	65	22	54
N9WKW	'	1,025	257	72	133
K9IG	**28**	**415,552**	**1008**	**32**	**119**
W9GIL	'	100,838	346	26	101
W9OF	**14**	**382,356**	**781**	**37**	**135**
K9CJ	**7**	**69,312**	**270**	**28**	**86**
W9GXR	'	57,116	218	28	81
WB9Z	**3.5**	**120,797**	**457**	**26**	**87**
W9PNE	1.8	1,740	34	12	17
***W9AU**	**A**	**973,854**	**884**	**109**	**304**
***KJ9C**	**"**	**735,968**	**676**	**110**	**312**
*W9MSE	'	405,748	493	85	216
*K9YAX	'	349,508	469	66	196
*W9WUU	'	321,212	434	74	188

*W9IL	"	275,730	385	80	193
*AK9N	"	249,255	429	73	188
*K9WX	"	63,744	177	53	113
*N9NW	"	46,150	130	39	91
*N9TU	"	14,751	103	32	67
*W9RM/M	"	13,588	70	32	54
*KB9MU	"	10,480	72	30	50
*W9FHA	"	9,153	84	21	60
*K9PY	"	9,089	57	27	34
*WB9AYW	"	3,350	46	17	31
***K9WA**	**28**	**114,840**	**348**	**25**	**95**
***K9RN/M**	**21**	**213,705**	**536**	**30**	**105**
***AF9DX**	**"**	**122,884**	**359**	**30**	**94**
*N4TZ/9	"	60,027	207	26	81
*NN9K	"	56,842	281	25	72
*W9DYQ	"	51,704	227	23	69
*N9WI	14	17,760	99	18	56
*N9GBB	"	8,800	63	14	36
***K9MK**	**1.8**	**2,640**	**38**	**11**	**22**
***KØRF**	**A**	**4,029,435**	**2511**	**153**	**440**
WBØO	**"**	**2,511,587**	**1697**	**159**	**400**
KØEU	"	2,495,724	1876	146	372
WØML	"	451,220	536	84	209
WØHW	"	414,090	468	108	213
NØRN	"	286,520	429	74	173
KSØM	"	211,905	312	77	178
WØYK	"	149,384	277	100	184
KØRY	"	86,172	248	53	119
KØJPL	"	40,256	116	53	83
KCØCOP	"	31,392	129	43	66
KØXD	"	24,150	130	61	89
KIØE	"	15,210	115	24	45
WØUN	**21**	**713,565**	**1682**	**35**	**122**
				(Opr. WØUA)	
WØSD	**"**	**501,234**	**1326**	**32**	**107**
				(Opr. WØDB)	
WØRA	"	105,240	349	32	88
KGØUA	"	102,684	288	31	98
KØOD	**7**	**161,432**	**484**	**32**	**104**
WØSF	**3.5**	**34,040**	**147**	**23**	**69**
KØCS	**1.8**	**1,408**	**34**	**13**	**19**
WØRXL	"	1,344	28	11	13
***KØFX**	**A**	**806,912**	**801**	**118**	**276**
***KEØUI**	**"**	**463,203**	**672**	**96**	**237**
*NN7A/Ø	"	351,101	404	108	215
*KØCF	"	114,840	230	65	133
*AAØAI	"	58,320	211	46	116
*ADØH	"	5,160	69	39	47
*KKØDX/Ø28	"	10,416	61	17	45
*AAØXJ	"	2,852	56	14	17
***AAØTY**	**21**	**122,815**	**447**	**31**	**90**
*KØVX	"	35,036	169	19	57
*KØBCN	"	7,474	85	12	25
*WBØB	14	2,378	29	12	17

ALASKA

KL7AC	A	1,263,542	2183	86	152
KL7RA	21	538,208	1931	33	88
*KL1R	A	448,945	1485	54	73

ANTIGUA

***V26K**	**A**	**7,185,562**	**5337**	**135**	**406**
					(Opr. AA3B)
*V29QQ	"	639,956	989	74	204

BAHAMAS

***C6AKP**	**A**	**675,393**	**1269**	**91**	**198**
					(Opr. N4RP)

BARBADOS

8P9Z	**A**	**9,991,863**	**6498**	**155**	**454**
					(Opr. K4BAI)

BRITISH VIRGIN ISLANDS

VP2VF	**A**	**5,811,300**	**4327**	**147**	**440**
					(Opr. KL2A)

CANADA

VE1GN	**A**	**3,804,320**	**3018**	**121**	**375**
VO1MP	**"**	**2,608,872**	**2591**	**101**	**323**
VE1ZJ	"	2,283,730	1835	118	352
VE1AI	"	1,084,274	1174	95	291
XJ1JF	**3.5**	**497,280**	**1740**	**29**	**99**
				(Opr. VE7SV)	
VA1A	1.8	246,238	1048	21	85
				(Opr. K3BU)	
*VE1GPL	A	393,119	500	78	203
*VE9DX	"	60,858	201	41	85
VE2/N6ZZ	**A**	**7,023,425**	**5295**	**138**	**425**
VE2AYU	"	1,776,430	2066	100	301
VE2SG	"	184,008	498	51	136
VE2FFE	"	37,468	157	42	74
***VE2AWR**	**A**	**858,544**	**1000**	**95**	**273**
*VE2WAT	"	368,010	574	85	205
*VE2MAQ	"	25,050	230	14	36
***VE2BWL**	**21**	**87,324**	**399**	**27**	**87**
VE3AT	**A**	**1,837,170**	**1724**	**98**	**313**
VE3XN	**"**	**1,254,428**	**937**	**129**	**368**
VE3ST	"	456,500	487	30	120
VE3DC	"	451,260	725	80	196
VE3BR	"	1,155	20	9	12
VA3RU	**28**	**516,802**	**1500**	**30**	**109**
VE3KZ	**"**	**459,492**	**1370**	**27**	**105**
VE3ZT	"	200,445	788	25	90
VA3KA	"	166,320	558	25	95
VE3KLM	"	13,038	122	15	38
VE3QAA	**21**	**154,308**	**480**	**30**	**102**
VE3WQ	7	107,118	658	14	52
VE3DO	**1.8**	**16,758**	**138**	**17**	**40**
***VE3KP**	**A**	**865,908**	**1103**	**104**	**255**
***VE3STT**	**"**	**700,572**	**916**	**77**	**239**
*VE3RZ	"	616,560	748	86	250
*VE3OM	"	465,864	503	89	242
*VE3OTL	"	439,560	908	89	207
*VE3UOL	"	394,702	621	67	175
*VE3GFN	"	267,028	452	61	180
*VA3RJ	"	150,331	242	71	168
*VA3SWG	"	32,451	172	34	53
*VA3JPM	"	17,386	222	35	79
VE4JB	**A**	**286,642**	**526**	**76**	**175**
*VE4MF	21	30,444	128	28	58
***VE5SF**	**A**	**1,309,279**	**2041**	**99**	**214**
*VE5CPU	"	100,492	384	54	94
*VE5AAD	21	73,130	454	22	49
VE6JY	3.5	4,050	83	11	14
***VE6BMX**	**21**	**186,784**	**856**	**27**	**77**
VE7IN	**A**	**269,720**	**527**	**81**	**139**
VE7FJE	28	67,008	434	22	42
VA7A	**14**	**445,248**	**1349**	**34**	**110**
***XO7X**	**A**	**2,584,983**	**2830**	**135**	**282**
				(Opr. VE7AHA)	
*VE7UF	28	62,031	451	23	46

CAYMAN ISLANDS

ZF1A	**A**	**1,139,448**	**2694**	**56**	**141**
				(Opr. W5ASP)	
ZF2LA	1.8	88,515	698	15	48
				(Opr. K9LA)	

CUBA

***CO8ZZ**	**A**	**706,368**	**1546**	**60**	**148**
*CO8LY	"	431,023	655	97	240
*CM2KC	"	313,560	663	45	156
***CO8DM**	**14**	**89,958**	**467**	**23**	**64**
***CO2JD**	**7**	**234,825**	**1261**	**24**	**77**
***CO8TW**	**1.8**	**2,793**	**75**	**6**	**13**

DOMINICAN REPUBLIC

HI8					
/DL1HCM	**A**	**2,597,125**	**3092**	**98**	**297**
*HI3LFE	28	5,358	136	10	9
***HI3K**	**7**	**372,372**	**1463**	**28**	**96**

GUADELOUPE

FG5BG	**A**	**4,480,538**	**3932**	**141**	**373**
***FG5EY**	**A**	**1,804,176**	**2201**	**99**	**297**

MARTINIQUE

FM5BH	**A**	**4,687,712**	**4216**	**129**	**397**
FM5FJ	"	102,968	359	63	148

MEXICO

6D2X	**A**	**4,338,864**	**4707**	**139**	**325**
				(Opr. W5VX)	
XE1VV	"	713,790	1335	91	218
XE2MX	"	638,608	776	110	224
***XE1RGL**	**7**	**84,000**	**589**	**21**	**54**

PANAMA

3E1AA	A	7,002,610	5311	143	422
				(Opr. DL5XX)	
*HO3A	A	490,325	796	84	191
				(Opr. KG6UH)	

PUERTO RICO

KP3W	**28**	**122,010**	**645**	**22**	**61**
NP3D	"	6,858	55	18	36
NP3D	7	10,912	80	20	42
***WP3C**	**A**	**949,284**	**1799**	**70**	**182**
*WP4LNY	"	45,198	223	27	54
***NP3A**	**28**	**477,664**	**1853**	**29**	**89**
***KP3L**	**"**	**468,814**	**1732**	**27**	**91**

ST. KITTS & NEVIS

V47KP	**A**	**1,146,346**	**1917**	**83**	**228**
				(Opr. W2OX)	

TURKS & CAICOS ISLANDS

VP5GN	**A**	**7,661,577**	**5765**	**139**	**422**
				(Opr. K5GN)	
VP5M	"	5,087,556	4523	126	363
				(Opr. N4TO)	

U.S. VIRGIN ISLANDS

*NP2L	A	436,852	841	67	204
*WP2Z	28	806,124	2458	30	102
				(Opr. WD5N)	

AFRICA

AFRICAN ITALY

IH9/OL5Y	**3.5**	**671,703**	**1899**	**28**	**99**

CANARY ISLANDS

EA8EA	**A**	**13,717,801**	**6563**	**176**	**543**
				(Opr. OH2MM)	
EA8					
/OH2BCI	**3.5**	**107,756**	**636**	**16**	**63**
EA8ZS	**1.8**	**79,350**	**453**	**15**	**60**
***EA8**					
/DJ1OJ	**A**	**1,130,058**	**1308**	**76**	**230**
*EA8ASJ	"	784,707	1774	58	173
*EA8AF	"	4,312	33	21	28
*EA8BYL	"	1,480	19	18	19
***EA8NN**	**21**	**545,100**	**1400**	**31**	**107**
*EA8IN	14	11,985	80	12	34
***EA8CN**	**7**	**519,932**	**1484**	**29**	**95**
*EA8NQ	"	173,952	650	21	75

IVORY COAST

TU2MA	28	207,603	1286	24	75

LIBERIA

*EL2WW	A	1,570,426	1956	80	206
				(Opr. ON4WW)	

LIBYA

***5A1A**	**A**	**450,865**	**779**	**48**	**145**

MALI

TZ6DX	**A**	**1,514,760**	**2004**	**65**	**195**
				(Opr. K4RB)	

MADEIRA ISLANDS

***CT3KN**	**A**	**37,430**	**266**	**28**	**67**
*CT3					
/DF5AN	28	37,548	283	23	61

MAURITIUS

***3B8**					
/DL9GFB	**A**	**1,024,920**	**1188**	**85**	**207**

MOROCCO

CN8WW	**A**	**11,904,984**	**6492**	**143**	**489**
				(Opr. DL6FBL)	

NIGERIA

5NØ					
/OK1AUT	**14**	**1,456,400**	**2954**	**38**	**138**
***5N3CPR**	**28**	**211,680**	**869**	**22**	**68**

SENEGAL

6V6U	**A**	**8,127,504**	**5316**	**128**	**400**
				(Opr. K3IPK)	

SOUTH AFRICA

ZS6EZ	**A**	**5,379,840**	**3328**	**156**	**420**
ZS6KR	**28**	**439,965**	**1271**	**31**	**104**
***ZS6AJS**	**A**	**225,568**	**470**	**72**	**140**
*ZS1NF	28	39,974	150	24	55
*ZS5RON	"	782	37	7	10

SWAZILAND

3DAØCA	**A**	**1,322,362**	**1555**	**109**	**214**

TANZANIA

5H3US	A	791,427	1061	84	189
				(Opr. K8MN)	

TUNISIA

3V8BB	**A**	**8,589,180**	**5033**	**149**	**487**
				(Opr. YT1AD)	

UGANDA

5X1Z	21	1,361,360	2790	38	138
				(Opr. SM7PKK)	

ASIA

ARMENIA

*EK4JJ	A	10,020	59	25	35

ASIATIC TURKEY

*TA4					
/OK8EAN	A	1,050	19	14	16
***TA3D**	**3.5**	**163,846**	**969**	**15**	**64**

ASIATIC RUSSIA

RZ9UA	**A**	**3,927,066**	**2681**	**145**	**452**
RK9CZO	**"**	**1,461,636**	**1395**	**101**	**295**
				(Opr. RX9CAZ)	
UA9MR	"	825,552	650	126	378
UA9KM	"	692,241	793	104	259
RA9UOZ	"	610,540	894	110	246
RW9QA	"	609,178	785	83	240
RU9DJ	"	547,170	641	89	256
UA9XEN	"	234,210	83	46	211
RZ9UR	"	183,074	348	81	158
UA9OS	"	76,076	179	63	146
RX9LW	**28**	**100,144**	**467**	**22**	**66**
RX9JC	"	14,040	168	16	44
RA9JP	**21**	**243,593**	**986**	**30**	**89**
RU9WZ	"	114,716	456	24	68
UA9JEP	"	7,316	254	18	44
RX9SX	**14**	**583,072**	**1436**	**36**	**116**
RA9DZ	"	297,346	940	33	101
RA9FF	7	40,768	175	23	68
UA9AT	**1.8**	**44,793**	**304**	**11**	**52**
***RV9XF**	**A**	**1,300,444**	**1381**	**77**	**255**
***RV9JR**	**"**	**788,389**	**1005**	**73**	**214**
RN9XA	"	732,354	799	106	265
RU9CZ	"	440,220	499	98	250
RZ9WZ	"	370,800	565	75	225
UA9JMS	"	273,000	510	57	153
UA9JKT	"	206,388	484	53	129
***RZ9OU**	**28**	**213,060**	**979**	**23**	**83**
RX9SR	"	127,872	600	27	84
UA9SBC	"	20,865	135	18	47
RA9MC	"	19,665	109	19	50
UA9WQK	"	16,280	131	17	41
***RX9FB**	**21**	**214,743**	**582**	**31**	**110**
UA9AB	"	98,900	350	23	77
RA9AUH	"	85,428	304	25	83
***UA9BS**	**14**	**281,484**	**805**	**32**	**94**
RZ9AN	"	115,440	425	29	75
RA9AN	7	43,384	209	23	65
***UA9JLJ**	**3.5**	**166,200**	**773**	**22**	**78**
***RA9AE**	**"**	**119,935**	**607**	**15**	**70**
RW9AV	"	88,506	501	13	53
UA9FGJ	"	21,015	165	7	38
***RW9TA**	**1.8**	**19,845**	**184**	**8**	**37**
UA9LGL	"	7,424	90	5	24
RAØFU	**A**	**390,788**	**616**	**103**	**199**
UAØJDD	**"**	**384,175**	**723**	**90**	**185**
UAØAGI	"	368,262	501	109	260
RAØAM	"	100	320	45	122
UAØCC	**7**	**60,984**	**467**	**23**	**54**
RAØCG	**3.5**	**77,616**	**601**	**22**	**44**
UAØSR	"	27,790	191	14	39
***UAØJQ**	**A**	**2,220,574**	**3022**	**161**	**381**
***RUØLL**	**"**	**1,355,250**	**1904**	**125**	**250**
UAØANW	"	556,885	1036	68	177
UAØSJ	"	515,171	913	83	188
UAØYAY	"	513,890	718	80	215
RAØJX	"	283,140	900	80	118
UAØUAG	"	191,897	599	47	80
RUØAT	"	102,222	361	48	114
RAØZD	"	101,660	189	90	131
UAØZC	"	58,975	173	70	105
UAØZY	"	19,006	92	35	51
***UAØLH**	**28**	**103,900**	**382**	**30**	**70**
***UAØSAD**	**14**	**164,917**	**610**	**30**	**79**
RUØUQ	"	88,020	396	30	78
UAØYM	"	26,334	183	23	40
***UAØCM**	**7**	**274,500**	**1032**	**32**	**93**
RUØBB	"	70,560	320	26	70
UAØBGZ	"	60,171	297	27	66
UAØCAY	3.5	1,479	77	9	8

AZERBAIJAN

*4K9W	A	547,962	746	70	201

CHINA

***BY4SZ**	**A**	**532,480**	**1228**	**78**	**130**
				(Opr. BD4ST)	
*BD4DW	"	221,960	677	56	99

CYPRUS

C4A	**A**	**9,904,510**	**5508**	**162**	**503**
				(Opr. 5B4ADA)	
C4W	**"**	**5,341,945**	**3958**	**138**	**413**
				(Opr. 5B4WN)	
H2ØA	**28**	**768,405**	**2169**	**34**	**131**
				(Opr. YL3CW)	
5B4AGC	**21**	**1,139,608**	**2698**	**37**	**130**
P38M	"	600,150	1732	35	115
				(Opr. YL2KL)	
5B4					
/EU1AA	**3.5**	**412,482**	**1478**	**32**	**106**

GEORGIA

4L2M	**3.5**	**207,756**	**884**	**18**	**87**
*4L1UN	21	60,940	382	12	43
***4L8A**	**7**	**294,210**	**1173**	**23**	**82**

HONG KONG

VR98BG	**14**	**707,190**	**1955**	**37**	**128**
***VR2**					
/OH6YF	**A**	**368,683**	**923**	**71**	**146**
*VR2LL	"	73,416	198	59	102

INDIA

*AT2UR	28	14,400	85	21	51
***AT2AJ**	**21**	**34,532**	**154**	**25**	**64**

ISRAEL

4X/OL7D	21	666,400	1486	38	132
4X4WN	3.5	211,200	1214	21	79
4X4NJ	**1.8**	**144,045**	**605**	**22**	**77**
*4Z5DB	A	47,960	188	36	74
***4X**					
/TF1MM	**28**	**121,440**	**673**	**17**	**49**
***4Z5FW**	**21**	**225,504**	**974**	**18**	**63**
***4Z4TA**	**14**	**88,320**	**376**	**21**	**59**
*4X1VF	3.5	23,171	170	7	40

JAPAN

JH1OGC	**A**	**1,979,356**	**1615**	**142**	**277**
JA1QOW	**"**	**607,724**	**685**	**122**	**216**
JA1HP	"	411,247	556	98	191
JA1GTF	"	289,541	406	115	196
JR1LEV	"	211,974	379	88	118
JJ1VEZ	"	157,710	281	82	128
JH1CTV	"	74,800	202	66	104
JO1QZI	"	20,726	91	29	57
JH1YHS	"	11,371	82	31	52
JH1NXU	"	6,448	50	23	29
JS1KQQ	28	2,262	30	11	18
JA1YBK	**21**	**421,200**	**1104**	**35**	**100**
				(Opr. JL1WFD)	
JJ1JRH	"	20,938	141	20	38
JA1BHZ	"	13,797	116	25	38
JA1YGX	"	4,905	74	19	26
				(Opr. 7L4WEZ)	
JR1XFS	**14**	**267,502**	**713**	**33**	**98**
JK1LUY	"	24,030	110	27	62
JH1RFM	**7**	**135,176**	**406**	**32**	**90**
JF1NZW	"	42,024	160	31	72
JK1AFI	"	39,121	198	22	49
JA1XEM	"	13,939	103	19	34
7M3RSK	"	5,588	52	17	27
JH1AEP	**3.5**	**49,875**	**298**	**25**	**50**
***JL1ARF**	**A**	**1,530,450**	**1384**	**143**	**307**
***JS1OYN**	**"**	**891,790**	**996**	**126**	**221**
***JF1SQC**	**"**	**759,182**	**848**	**113**	**221**
*JJ1VRO	"	740,558	865	116	222
*JK1ASO	"	610,500	775	114	186
*JN1NOP	"	529,802	689	108	179
*JR1XKU	"	511,589	636	106	193
*JI1RXQ	"	382,536	584	102	162
*JH1SVO	"	351,152	481	94	178
*JA1IVL	"	318,420	470	99	162
*JK1ATT	"	318,283	465	103	184
*JN1MSO/1	"	288,704	522	83	125
*JH8KYU/1	"	264,196	400	95	162
*JA1BUI	"	255,252	410	94	145
*JF1RPZ	"	216,812	348	98	170
*JJ1JGI	"	215,340	360	82	140
*JJ1QJP	"	205,119	367	79	134
*7L4IOU	"	195,576	306	115	166
*JA1BPN	"	194,728	371	77	125
*JA1TRP	"	193,456	344	78	136
*JA1CP	"	189,072	355	81	127
*JA1PS	"	188,256	332	84	128
*JF1FEV	"	138,205	265	78	133
*7K4GUR	"	119,320	271	50	107
*JA1XUY	"	118,608	274	72	96
*JM1KNI	"	116,450	283	64	106
*JP1SRG	"	111,232	252	64	94
*JA1WHG	"	84,304	181	80	96
*JR1KSK	"	83,790	247	54	79
*JG1TVK	"	80,004	172	71	106
*7M3LDC	"	77,010	173	69	101
*JA1KI	"	70,668	176	61	90
*JH1PXY	"	66,300	186	55	75
*JE1REU	"	58,813	210	40	63
*JF1LKM	"	55,912	183	47	69
*JA1PUK	"	53,784	174	68	94
*7K1EQG	"	46,990	148	56	71
*JF1LQP	"	44,020	145	60	82
*JG3NKP/1	"	38,064	134	39	65
*JH1QLB	"	35,802	128	47	70
*JA1BCP	"	27,435	103	42	50
*JH1SBE	"	25,814	188	54	82
*JR1LQK	"	25,511	127	44	53
*JE1QHT	"	24,480	129	48	54
*JA1KZP	"	15,747	76	27	60
*JA1EJD	"	14,690	85	31	34
*7M4SZG/1	"	1,782	31	14	19
*JA1MQS	"	1,296	19	11	13
*JG1FGL	"	320	8	8	8
***JR1BTG**	**28**	**201,528**	**659**	**32**	**76**
*JA1NLX	"	68,544	298	28	56
*JH1DYV	"	55,980	245	30	60
*JH1BDS	"	44,252	221	25	49
*JA1SJV	"	40,875	190	26	49
*JG1OWV	"	6,171	45	23	28
*JR7CJO/1	"	4,324	57	19	28
*JA1AAT	"	3,816	210	15	21
*JE1HXZ	"	3,472	43	13	18
*JP1IXV	"	3,070	37	13	17
*7K2PBB	"	1,482	23	12	14
*7N3WRN	"	406	13	6	8
***JH1SWD**	**21**	**161,928**	**526**	**32**	**85**
*JJ1GQH	"	99,042	360	29	73
*JA1EA	"	12,992	88	23	33
*7M1LOT	"	8,944	95	21	31
*JE1HJV	"	7,125	74	22	35
*JR1UMO	"	7,124	51	19	33
*7K3BKY	"	6,510	77	14	16
*JO1ZGN	"	4,752	41	20	28

*7L2VOB	"	24	4	2	2
JR4PMX/1	**14**	**300,960**	**699**	**35**	**125**
*JL1MUT	"	177,580	551	34	96
*JA1XPU	"	1,296	24	9	18
*7L2ICS	"	279	13	3	6
JH1AZO	**7**	**49,680**	**230**	**26**	**52**
*JS1UMQ	3.5	6,164	64	19	27
*JE1LPZ	"	5,838	83	18	24
*JM1NKT	"	1,760	38	9	11
*JE1SPY	1.8	476	14	8	9
JH2BCN	**A**	**1,125,940**	**1212**	**126**	**254**
JA2VQF	**"**	**609,588**	**780**	**100**	**187**
JA2AXB	"	608,855	693	114	209
7J6AAK/2	"	154,440	260	86	120
			(Opr. VK2EKY)		
JA2QVP	"	106,872	242	78	105
JF2FIU	"	57,086	164	58	88
JE2LUN	**28**	**52,690**	**184**	**33**	**77**
JA2MOG	**14**	**78,200**	**288**	**28**	**72**
JA2QXP	"	45,500	185	28	63
JA2BY	**A**	**799,693**	**823**	**123**	**244**
JH2NWP	**"**	**556,100**	**643**	**114**	**218**
*JA2UOT	"	468,006	715	90	141
*JA2CUS	"	372,145	545	95	188
*JA2KKA	"	273,702	419	87	155
*JA2OJ	"	171,495	341	72	113
*JH2AMH	"	169,391	358	91	142
*JJ2TKX	"	63,756	190	56	76
*JA2HO	"	26,334	85	56	70
*JA2IU	"	22,509	125	28	33
*JE8KKX/2	"	7,975	54	25	30
*JJ2IER	"	234	9	6	7
JG2MLI	**28**	**139,536**	**519**	**32**	**76**
*JA2KVB	"	111,244	359	34	82
*JA2MEI	"	7,056	65	18	24
JQ2FFS/221		**78,200**	**313**	**30**	**62**
*JA2BQX	"	14,454	130	23	50
*JG2NMY	"	10,074	77	20	26
*JI2LCE	"	5,530	60	16	19
JL2LPX	**14**	**50,460**	**217**	**25**	**62**
*JH2WIC	"	20,221	111	19	54
*JA2MZ	"	2,912	33	14	18
JS3CTQ	**A**	**2,842,494**	**2299**	**140**	**314**
JF3CCN	**"**	**1,181,521**	**1078**	**139**	**268**
JQ3UDL	"	640,946	753	106	228
JA3ARM	"	316,968	430	101	181
JA3UWB	"	213,640	382	67	151
JA3IKG	"	132,342	294	59	102
JA3CE	"	3,375	27	22	23
JA3XOG	**28**	**120,450**	**400**	**32**	**78**
JR3NZC	**21**	**267,145**	**800**	**35**	**88**
JM3LWR	"	2,450	31	15	20
JE3HHT	**A**	**551,372**	**704**	**105**	**202**
JH3CUL	**"**	**227,959**	**374**	**91**	**166**
*JO3JYE	"	123,914	354	69	98
*JM3XEJ	"	83,380	299	82	138
*JF3BTR	"	77,044	191	75	112
*JH3TXP	"	54,120	167	43	77
*JA3AVO	"	18,711	72	41	58
*JA3BQC	"	15,910	83	34	40
*JH3BIL	"	12,616	76	39	44
*JA3HC	"	3,807	32	18	29
*JA3WFQ	"	1,333	17	16	15
*JA3QOS	"	100	39	26	26
JA3GN	**28**	**85,012**	**300**	**32**	**74**
JH3AIU	**21**	**243,711**	**858**	**32**	**85**
*JK3GWT	"	204,848	628	35	89
*JF3IYW/3	"	35,313	192	26	53
*JH3JZI	"	3,596	42	13	18
*JN3DSH	14	51,579	220	30	69
*JJ3QXW	7	390	13	5	5
*JR3EOI	3.5	31,185	174	24	53
*JG3LGD	"	207	11	5	4
JH4UYB	**A**	**4,470,430**	**2961**	**169**	**421**
JH4ADK	**"**	**812,058**	**976**	**135**	**242**
JA4ESR	"	192,303	346	78	129
JA4HIX	"	27,738	117	63	71
JA4XRN	28	43,125	214	23	46
JL4DJM	"	32,040	154	27	62
JH4JNG	**14**	**321,408**	**794**	**36**	**108**
JH4JUK	"	1,066	21	12	14
JH4CPC	3.5	20,400	122	23	52
JE4MHL	**A**	**301,461**	**454**	**92**	**165**
JE4QGF	**"**	**226,156**	**448**	**73**	**124**
*JA4CZM	"	194,256	353	73	140
*JA4BAA	"	167,616	333	65	127
*JJ4PPK	"	38,475	155	35	60
JA4ETH	**28**	**47,208**	**209**	**24**	**60**
*JA1XCZ/4	"	14,632	91	23	39
*JA4AQR	"	7,467	53	19	38
JR4GPA	**21**	**186,890**	**618**	**31**	**79**
*JK4BOX	"	22,508	131	28	40
*JE4GJV	"	5,226	50	17	22
*JL4LWL	"	3,959	41	17	20
*JI4HKA	3.5	6,696	58	21	33
*JA4YPE	1.8	150	7	5	5
			(Opr. JF3EBO)		
JH5FXP	**A**	**4,857,376**	**3313**	**159**	**385**
JA5DQH	**21**	**704,025**	**1479**	**37**	**138**
JA5APU	"	223,176	767	29	73
JH5OXF	**A**	**839,020**	**916**	**117**	**247**
*JE5XIC	"	10,496	68	29	35
*JR5EHB	28	28,258	149	25	46
*JF5FGY	"	10,146	72	23	34
*JA5JGV	"	4,864	45	17	21
JA5APU	**21**	**152,448**	**712**	**29**	**67**
*JA5PDS	3.5	740	26	10	10
JA6ZLI	**A**	**1,155,682**	**1137**	**130**	**271**
JQ6NAW	**"**	**1,030,324**	**1046**	**120**	**238**
JA6SRB	"	686,475	836	111	228
JA6COW	"	605,228	571	130	282
JO6GIV	"	114,432	227	73	119
JA6WW	"	76,130	260	95	135
JA6WIF	**28**	**226,380**	**587**	**35**	**105**
JA6TQ	"	60,662	233	30	68
JA6BZI	**7**	**100,710**	**309**	**37**	**98**
JA6ZPR	**3.5**	**46,725**	**251**	**24**	**51**
			(Opr. JH6SQI)		
JA6UBK	**A**	**1,020,832**	**895**	**141**	**296**
JH6OPP	**"**	**447,470**	**625**	**103**	**187**
JH6TYD	"	313,491	459	90	159
*JA6AKV	"	78,472	214	53	83
*JA6QDU	"	76,840	205	58	78
*JA6JVY	"	71,466	204	53	76
*JA6HJP	"	23,432	92	36	65
*JM6CIP	"	14,317	141	44	59
*JK6ISK	"	6,440	50	21	25
JA6WFM	**21**	**154,330**	**574**	**31**	**84**
*JH6QIL	"	52,626	212	31	67
*JR6IKD	"	126	6	4	3
JG6MQI	**7**	**157,080**	**439**	**35**	**101**
*JE5JHZ/6	"	26,296	144	27	49
JH7AFR	**A**	**3,788,148**	**2537**	**168**	**378**
			(Opr. N6AA)		
JH7WKQ	**"**	**3,494,880**	**2711**	**142**	**338**
JH7XGN	**"**	**2,057,950**	**1988**	**128**	**267**
JA7JHT	"	254,826	442	93	141
JJ7SRA	"	170,640	308	83	133
JA7JI	**28**	**65,096**	**231**	**33**	**70**
JA7ERJ	"	1,178	24	10	9
JA7XBG	**21**	**391,756**	**998**	**36**	**112**
JA7FTR	**14**	**484,218**	**1177**	**36**	**126**
JA7COI	"	27,048	142	25	44
JA7EMH	3.5	10,488	88	21	36
JA7NI	**1.8**	**11,700**	**91**	**18**	**32**
JA7NVF	**A**	**505,175**	**663**	**106**	**169**
JA7ARW	**"**	**296,958**	**440**	**95**	**163**
*JI7OED	"	254,538	416	88	149
*JN7OJA	"	101,870	236	63	104
*JA7DNO	"	85,329	230	60	111
*JA7SYA	"	58,220	173	61	81
*JF7GDF	"	18,531	105	32	39
*JM7JMG	"	13,790	75	30	40
*JA7MGH	"	8,856	74	16	25
*JM7JMG	"	5,760	48	21	24
*JH7FUI	"	3,168	34	14	19
*JA7AXP	"	1,736	24	14	17
*JR7HAN	28	24,684	135	27	41
*JA7VEI	"	15,602	100	23	35
JI7NUF	**21**	**181,485**	**581**	**35**	**76**
*JA7DOT	"	77,040	261	31	76
*JH7NPF	"	19,698	138	18	31
*JR7XGL	"	11,252	78	23	35
JH7IMX	**7**	**50,406**	**215**	**29**	**64**
*JH7CJM	3.5	2,028	46	12	14
*JH7FUJ	"	1,272	32	12	12
*JQ1UKK/7	1.8	294	12	7	7
JA8RWU	**A**	**2,712,231**	**2177**	**145**	**314**
JH8UQJ	**28**	**41,088**	**174**	**30**	**66**
JE8JYD	21	1,612	51	20	12
JA8JCR	**A**	**433,845**	**603**	**116**	**195**
*JA8DCG	"	198,387	111	71	130
*JA8XOD	"	130,400	269	72	128
*JA8LN	28	12,540	91	24	36
*JR8SGE	21	7,800	65	20	30
*JA8TEZ	7	742	19	8	6
JA9CWJ	**A**	**646,651**	**849**	**103**	**190**
JA9JFO	**14**	**118,720**	**386**	**30**	**82**
*JA9RO	A	11,830	72	23	42
JH9VSF/9	**28**	**107,800**	**505**	**30**	**68**
*JR9KZR/9	"	46,725	244	24	51
JH9KVF	**21**	**230,580**	**772**	**34**	**88**
*JR9NVB	"	191,757	552	32	91
*JA9TSI	"	100,266	435	29	73
JM2FCJ/9	**7**	**196,292**	**721**	**32**	**92**
JAØQWO	**A**	**808,520**	**963**	**114**	**226**
JHØGHZ	**"**	**703,179**	**681**	**133**	**254**
JRØWZR	"	457,832	556	105	197
JAØHC	"	195,500	339	82	148
JHØFUW	**28**	**336,336**	**910**	**34**	**98**
JHØFWV	21	21,824	89	29	59
JAØRCK	"	1,508	19	12	17
JAØFVU/Ø	14	756	13	9	12
JEØUXR	**A**	**1,533,600**	**1349**	**138**	**312**
*JAØNCE	"	81,130	233	74	116
*JEØKAM	"	26,445	101	41	88
*JHØNEC	"	25,920	103	58	77
*JAØBPY	"	16,400	96	34	46
*JAØGZ	"	8,591	59	33	38
*JAØGEY	28	3,330	45	15	22
*JAØIOF	21	17,696	118	21	35
*JAØDOW	"	480	18	12	12
JHØEPI	**14**	**148,851**	**513**	**35**	**76**
*JHØSGG	7	931	23	9	10
JAØAOQ	**3.5**	**9,145**	**141**	**23**	**36**
*JAØADY	1.8	2	1	1	1

KAZAKHSTAN

UN7TX	**28**	**204,078**	**888**	**27**	**86**
UN9GD	"	53,760	281	26	70
UN5J	**21**	**237,276**	**784**	**34**	**122**
UP4L	**14**	**427,032**	**1163**	**35**	**127**
			(Opr. UN7LZ)		
UPØF	"	8,256	101	7	25
UPØL	**7**	**420,912**	**1483**	**35**	**113**
			(Opr. UN9LW)		
UN7JX	**1.8**	**34,122**	**207**	**15**	**51**
*UP6P	A	1,227,045	1620	125	332
*UP6F	28	250,373	1084	28	81
*UN7RBD	21	159,036	568	24	78
*UP5F	14	154,215	548	31	84
			(Opr. UN7FW)		
*UN7GG	7	39,474	172	23	63

KYRGYZSTAN

EX8W	**A**	**4,373,712**	**3608**	**124**	**380**
EX2A	**7**	**49,973**	**246**	**17**	**60**
*EX8MZ	A	165,034	633	24	77

KOREA

*HL1CG	A	386,804	487	106	192
*HL5BUV	"	60,564	200	57	90
*HL5AP	28	21,980	123	26	44

LEBANON

*OD5PL	A	331,712	932	40	106

MACAO

XX9X	A	3,795,670	3249	163	402
			(Opr. OH2PM)		

MONGOLIA

JT1CO	A	1,235,806	2109	101	218

MYANMAR

XZ1N	28	174,240	1010	25	65
			(Opr. N7MB)		
XZ1N	21	384,370	1498	33	100
			(Opr. AF7O)		

OMAN

A45XR	A	9,067,345	4821	159	526

PAKISTAN

*AP2NK	A	534,909	1027	63	174

SAUDI ARABIA

HZ1HZ	A	1,125,136	975	96	312

TAIWAN

BV7FF	28	237,765	999	34	87
*BV /JH3GCN	28	147,684	774	27	66

TAJIKISTAN

EY8MM	A	3,598,356	2897	141	428

TURKMENISTAN

*EZØAB	A	967,024	1178	74	230
			(Opr. UA4FAO)		

VIETNAM

3W7TK	A	2,720,442	2978	117	330
			(Opr. OK1HWB)		

WEST MALAYSIA

*9M2TO	A	1,047,051	1395	120	247

EUROPE

ALAND ISLANDS

OHØZ	14	901,230	2957	37	128
			(Opr. OH2MAM)		

AUSTRIA

OE5OHO	**A**	**1,153,185**	**1800**	**80**	**239**
OE9SLH	"	144,746	360	57	154
OE3I	**28**	**238,944**	**796**	**34**	**118**
			(Opr. OE1JNB)		
OE3TL	21	68,788	300	26	90
OE3GSA	1.8	48,360	624	14	64
*OE1EMS	A	609,180	886	102	288
*OE1JIS	"	47,652	150	40	92
*OE1BKA	21	18,703	142	18	41

AZORES

CU2V	A	3,728,874	4069	116	331
			(Opr. DL3KDV)		

BALEARIC ISLANDS

EA6GP	A	159,732	551	48	156
*EA6YW	A	22,654	101	30	64
*EA6 /DL8NBY	21	48,840	249	23	65

BELARUS

EW8EW	A	2,665,131	2993	128	409
EU2ØØA	"	797,742	979	115	359
			(Opr. EU4AA)		
EW2AA	"	511,868	816	98	264
EU5A	**7**	**352,314**	**1618**	**30**	**108**
EU1DX	"	301,344	1179	34	112
EW6TU	**3.5**	**68,552**	**708**	**15**	**61**
EW2DD	"	67,830	691	13	57
EU1SA	**A**	**297,171**	**523**	**79**	**188**
*EW1BA	"	20,909	78	41	62
*EU7SD	"	13,320	79	35	55
*EW4AB	"	13,248	141	10	59
*EW8DZ	"	12,975	270	42	70
*EW1NA	21	19,398	182	13	40
EW8DX	**14**	**76,700**	**529**	**28**	**72**
*EW8OS	"	50,787	376	16	65
*EW6BN	"	36,010	306	17	48
EV6M	**7**	**59,224**	**411**	**17**	**71**
*EW3CW	"	8,710	59	17	50
*EW3WJ	"	2,666	80	6	25
EU6AA	**3.5**	**34,170**	**416**	**12**	**55**
EU1AZ	**1.8**	**47,047**	**692**	**14**	**63**

BELGIUM

OT8A	**A**	**857,964**	**1098**	**101**	**325**
			(Opr. ON5UM)		
ON4CBW	"	61,152	326	46	122
ON4AKL	**14**	**365,516**	**1444**	**32**	**105**
OT8T	**7**	**772,530**	**2402**	**36**	**129**
			(Opr. ON5UK)		
ON4AEK	"	302,763	1485	28	101
*ON4XG	A	454,542	770	68	223
*ON4ADL	"	116,427	340	52	145
*ON4OSA	"	104,859	501	44	147
*ON7SS	"	56,260	238	47	98
*ON4KMB	"	44,160	215	34	81
*ON7WF	"	29,532	184	23	69
*ON6NR	28	99,944	394	28	96
			(Opr. ON4RU)		
*ON6TJ	21	96,193	396	24	83
*ON6CW	14	85,170	576	27	75

BOSNIA-HERZEGOVINA

T99W	28	492,582	1536	37	122
T94JS	7	3,350	58	9	41
*T95A	A	2,297,344	2833	119	393
*T95C	"	90,396	289	50	112
*T99T	28	165,891	589	26	95
*T95MZZ	21	45,290	547	18	52
*T92M	7	108,205	804	21	74
*T97Y	"	67,412	731	15	61
*T94YT	1.8	13,475	290	6	43

BULGARIA

LZ1BJ	**A**	**637,871**	**1248**	**90**	**263**
LZ1LZ	"	510,624	718	95	324
LZ1QZ	"	245,072	627	68	221
LZ2DL	"	195,621	548	57	140
LZ1MC	"	52,746	178	57	92
LZ1RN	"	23,940	150	24	46
LZ1BG	"	9,804	51	32	44
LZ5QZ	"	160	12	9	11
LZ1NG	**28**	**198,240**	**871**	**36**	**124**
LZ2UF	"	27,755	215	20	41
LZ1CW	**21**	**175,674**	**652**	**31**	**103**
LZ5W	**7**	**639,912**	**2635**	**38**	**118**
			(Opr. LZ5DB)		
LZ1PM	**3.5**	**102,060**	**630**	**23**	**82**
LZ3AB	1.8	10,176	147	11	42
LZ2NB	**A**	**130,064**	**341**	**57**	**119**
*LZ4BU	"	21,912	100	35	48
LZ2GS	**28**	**87,543**	**325**	**33**	**104**
*LZ2RF	"	69,552	298	26	86
*LZ1CF	"	58,864	220	28	76
*LZ1IA	"	24,750	148	22	44
LZ3YY	**21**	**252,720**	**947**	**35**	**109**
*LZ1FJ	14	7,752	123	10	41
LZ4ZP	**7**	**294,857**	**1263**	**31**	**117**
*LZ2MP	"	11,100	119	15	45
*LZ3DP	"	4,855	60	15	30

CRETE

*SVØLK	A	389,367	895	79	218

CROATIA

9A1O	**A**	**2,082,429**	**1972**	**132**	**415**
9A2AJ	**28**	**333,387**	**1031**	**33**	**120**
9A7A	**14**	**720,837**	**2134**	**38**	**145**
			(Opr. 9A7V)		
9A3GW	"	716,716	2213	37	142
9A9A	**7**	**908,694**	**2944**	**36**	**135**
9A5Y	"	**734,570**	**2462**	**37**	**133**
			(Opr. 9A4QZ)		
9A3MA	"	337,250	1536	33	109
9A3MR	"	283,016	1358	30	106
9A2WJ	"	36,177	245	20	73
9A4RU	**3.5**	**121,166**	**887**	**20**	**74**
9A5W	**1.8**	**158,652**	**1115**	**25**	**88**
9A4D	"	19,260	305	11	49
			(Opr. 9A2D)		
***9A2EU**	**A**	**1,997,082**	**1912**	**130**	**428**
*9A9R	"	864,604	1422	85	253
*9A2NO	"	553,781	766	102	299
*9A2TN	"	471,344	925	91	265
*9A3SM	"	361,872	617	84	252
*9A2UA	"	132,398	373	55	138
*9A3CY	"	69,160	360	32	108
***9A7R**	**28**	**536,580**	**1498**	**36**	**129**
***9A1AA**	**"**	**330,544**	**1001**	**34**	**112**
*9A7P	"	154,638	551	29	92
*9A2FK	"	104,748	537	26	60
*9A3RE	"	91,809	403	29	72
***9A6A**	**21**	**494,025**	**1572**	**39**	**136**
***9A5YA**	**14**	**67,680**	**450**	**23**	**67**
***9A5J**	**3.5**	**38,038**	**381**	**13**	**64**

CZECH REPUBLIC

OK1AVY	**A**	**1,716,286**	**1863**	**103**	**339**
OK1EP	**"**	**1,554,506**	**1749**	**121**	**370**
OK2PDT	**"**	**1,269,216**	**1512**	**97**	**319**
OK1FPS	"	1,139,476	1393	101	341
OK1DOL	"	876,544	1187	99	329
OL4M	"	783,840	1341	81	264
OK1JOC	"	696,340	986	89	281
OK2PAD	"	413,463	800	74	209
OK1AXB	"	356,644	587	87	239
OK2EQ	"	327,120	763	66	224
OK1FRO	"	202,658	569	61	153
OK2KJ	"	73,439	310	23	80
OK1AES	**28**	**132,264**	**386**	**32**	**100**
OK1AUC	"	83,032	390	29	78
OK2BJT	"	53,680	239	25	63
OK1FZM	**21**	**309,876**	**944**	**35**	**112**
OK2SAT	"	218,088	679	36	120
OK1RF	**14**	**852,488**	**2138**	**38**	**144**
OK2GZ	"	357,717	1279	33	108
OK1XC	"	129,010	629	33	100
OK2BVG	**7**	**209,592**	**762**	**31**	**111**
OK1IE	"	70,620	307	27	83
OK1CW	**3.5**	**183,718**	**1312**	**23**	**74**
OK2ZC	"	77,045	823	18	77
OK1KZD	"	76,630	747	18	79
			(Opr. OK1TO)		
OK1FC	"	75,081	696	18	69
OK1RP	**1.8**	**73,341**	**787**	**18**	**69**
OK1DWJ	"	2,052	25	13	23
OK1DJ	"	1,536	57	5	27
***OK1DSZ**	**A**	**1,415,477**	**1534**	**102**	**365**
***OK1BA**	**"**	**1,111,320**	**1283**	**107**	**334**
***OK1HX**	**"**	**1,106,640**	**1449**	**90**	**334**
*OK1PG	"	850,850	1148	102	323
*OK2TBC	"	737,100	1091	92	233
*OK1AYY	"	653,248	1064	77	269
*OK2PTZ	"	652,769	1120	87	250
*OK1ZP	"	650,760	1117	82	292
*OK2EC	"	570,710	922	75	235
*OK2PO	"	512,664	834	83	245
*OK2PMN	"	512,148	1011	72	222
*OK1FF	"	465,985	794	81	254
*OK5ACR	"	452,920	813	72	188
*OK1MKI	"	421,064	816	73	219
*OK1SI	"	419,661	815	77	220
*OK1HFP	"	388,561	675	79	258
*OK1MZO	"	387,192	701	79	233
*OK2HBR	"	379,638	879	67	195
*OK1BMW	"	342,090	657	78	237
*OK2BND	"	325,809	680	74	223
*OK1KZ	"	299,871	733	57	176
*OK2BRV	"	161,590	546	54	172
*OK2SWD	"	152,764	502	45	166
*OL7C	"	124,264	632	41	155
			(Opr. OK1FKV)		
*OK1FRT	"	91,530	354	44	162
*OK1FTW	"	71,394	198	71	75
*OK2AJ	"	54,655	304	25	60
*OK2BWC	"	14,700	182	17	67
*OK1DVX	"	10,368	98	26	55
*OK1DDV	"	7,125	102	16	41
*OK1JDJ	"	2,613	39	13	26
***OK1CZ**	**28**	**90,688**	**374**	**27**	**77**
***OK1MGW**	**"**	**73,831**	**304**	**26**	**75**
*OK2HZ	"	73,710	264	26	79
*OK1DKZ	"	64,818	333	20	58
*OK2PCL	"	60,515	232	28	63
*OK2BNF	"	54,774	243	25	62
*OK2PMM	"	29,040	161	22	44
*OK2BHE	"	12,740	106	17	32
*OK1DKM	"	6,790	74	14	21
***OK2SBL**	**21**	**183,820**	**690**	**34**	**106**
***OK1MNW**	**"**	**152,040**	**515**	**32**	**108**
*OK2QX	"	136,948	511	31	103
*OK2PCN	"	104,181	423	31	90
*OK2PKY	"	17,799	157	17	34
*OK1ILM	"	7,266	110	11	31
***OK2SGY**	**14**	**78,538**	**421**	**26**	**81**
***OK1DKO**	**"**	**70,416**	**273**	**26**	**82**
*OK1AXA	"	56,753	375	26	77
*OK1DVK	"	17,484	117	16	46
***OK1FCA**	**7**	**99,495**	**559**	**20**	**79**
*OK1GS	"	56,990	402	17	65
*OK2PBG	"	45,198	309	14	67
*OK2BRA	"	15,820	105	16	54
*OK1DXR	"	4,860	124	9	36
***OK1FHI**	**3.5**	**85,025**	**722**	**17**	**78**

***OK2HI**	"	**74,646**	**588**	**19**	**68**
*OK1FOG	"	59,670	469	16	74
*OK2DU	"	36,719	467	11	62
*OK2BTK	"	5,412	142	6	27
*OK2PSA	"	693	29	5	16
***OK2PWJ**	1.8	**11,725**	**147**	**12**	**55**
*OK1FFC	"	11,373	281	6	45
*OK2OU	"	693	37	3	21

DENMARK

OZ1LO	A	**3,779,440**	**3162**	**152**	**443**
OZ5MJ	"	456,435	725	78	267
OZ8SW	"	196,770	487	54	156
OZ5RM	"	12,403	122	22	57
OZ8RO	7	**92,493**	**352**	**33**	**96**
***OZ8AE**	A	**645,816**	**806**	**97**	**282**
*OZ8NJ	"	497,004	1051	78	254
*OZ5ABD	"	241,366	687	60	169
*OZ5UR	"	147,114	378	62	136
*OZ6TL	"	109,011	306	49	130
*OZ5DK	"	98,343	510	55	168
*OZ4FF	"	24,500	128	34	64
*OZ1APA	28	2,400	35	12	18
*OZ1AV	21	31,878	222	19	47
*OZ6NF	"	1,230	29	11	19
***OZ1BMA**	14	**56,463**	**327**	**23**	**64**
*OZ/SM7GCZ	"	37,754	213	19	67

DODECANESE

J45KLN	A	**569,772**	**1612**	**61**	**191**
					(Opr. SMØCMH)

ENGLAND

G4BUO	A	**5,073,750**	**3566**	**148**	**467**
GØIVZ	"	**4,722,406**	**3735**	**135**	**463**
G4BJM	"	**3,826,284**	**3780**	**125**	**367**
G3UFY	"	1,201,200	1415	93	307
G3TXF	"	944,125	1288	89	326
GØJQN	"	755,430	1319	84	254
G3WUX	"	226,003	562	60	133
M8W	"	220,088	426	70	174
				(Opr. G4IIY)	
G3NAS	"	31,243	190	51	106
G3MXJ	28	**620,172**	**1577**	**36**	**125**
G3TBK	"	293,846	879	33	139
GØORH	"	221,112	1119	31	80
G4ODV	"	168,338	566	35	111
G8G	21	**412,794**	**1380**	**34**	**119**
				(Opr. GØLII)	
G3PJT	"	375,744	1217	34	118
G4HTD	7	**359,226**	**1582**	**31**	**95**
G3WGN	3.5	**187,566**	**951**	**27**	**102**
***G3WGV**	A	**1,898,000**	**1963**	**112**	**388**
***G3KKP**	"	**745,500**	**1120**	**80**	**270**
*G5LP	"	727,909	1226	98	323
*G3NKS	"	713,754	1000	84	258
*GØLZL	"	572,592	1015	77	239
*G3RSD	"	459,218	910	70	228
*G3VQO	"	395,032	804	64	204
*G3KKQ	"	342,838	652	76	181
*G3JKY	"	252,120	631	50	170
*G3GGS	"	233,616	424	59	189
*G3HZL	"	106,743	328	51	170
*G3ECS	"	82,992	289	44	89
*G4DDX	"	36,138	195	33	81
*MØAAA/P	"	7,906	103	14	53
***G3ESF**	28	**83,629**	**433**	**22**	**69**
*G4UZN	"	18,009	106	25	44
*G4ZME	"	12,060	131	14	22
***GØMTN**	21	**256,100**	**1018**	**32**	**98**
*G3VXJ	"	95,489	354	36	101
*G3MXH	"	50,112	312	21	66
*G3KTT	14	11,505	182	15	44
***G5MY**	7	**68,310**	**306**	**17**	**93**
*G3WRR	"	46,552	300	17	71
***GØBMS**	3.5	**23,856**	**298**	**13**	**58**

ESTONIA

***ES1QD**	A	**1,173,816**	**1410**	**134**	**414**
*ES4RD	"	179,346	468	63	150
***ES2NA**	28	**51,360**	**276**	**23**	**57**
*ES7LGM	"	26,424	162	22	50
*ES1TM	"	11,074	133	16	33
***ES3HO**	21	**36,036**	**200**	**23**	**68**
***ES2RJ**	14	**282,129**	**984**	**38**	**119**
*ES3BM	7	23,364	208	15	51
*ES6CO	3.5	1,225	43	9	26

EUROPEAN RUSSIA

UA4LU	A	**2,500,084**	**2689**	**135**	**482**
RN6BY	"	**2,348,400**	**2593**	**141**	**459**
UA4HTT	"	**2,207,413**	**2366**	**146**	**467**
RW4WR	"	1,892,134	1840	136	415
UA1OMS	"	1,716,336	1839	133	389
RA4AR	"	1,488,650	2088	114	361
RX3APM	"	1,286,376	1524	121	411
RO3A	"	1,280,994	2093	104	325
				(Opr. UA3-170)	
RX3ARI	"	1,089,890	1548	93	272
RW1QW	"	974,525	1474	95	330
RK3AD	"	967,632	1285	111	345
RU6AV	"	863,898	1217	123	346
RV3LO	"	750,820	1066	103	331
UA3TU	"	747,088	1111	95	329
RA1OJ	"	632,082	883	93	273
UA1OZ	"	606,424	971	97	267
RK3DK	"	555,076	1119	78	224
RA3UF	"	315,000	664	92	268
UA1AUA	"	307,179	627	70	209
RV1CC	"	235,755	481	67	212
UA1AJW	"	212,444	356	79	228
RZ6FZ	"	184,440	487	75	190
UA4LY	"	76,760	204	71	131
RN3FA	"	63,492	236	53	90
RW4CW	"	61,824	268	37	124
UA3XGM	"	52,326	212	40	113
RX3AEX	"	51,404	270	55	126
RK3FY	"	41,503	150	48	73
RK3FV	"	14,184	111	30	42
UA3UCD	"	13,608	76	26	58
RA3XR	"	9,200	51	33	47
UA4RZ	28	**133,736**	**511**	**30**	**116**
RU4CO	"	111,800	430	29	101
RU4PL	21	**347,424**	**1134**	**40**	**128**
RA3XO	"	**309,424**	**901**	**37**	**129**
RX6LG	"	249,348	958	29	103
RV6YB	"	112,243	514	30	77
RU3ACE	14	**99,186**	**524**	**28**	**94**
UA4FEN	"	26,520	191	23	55
RA4CD	"	18,564	93	24	67
UA4LL	7	**296,670**	**988**	**37**	**128**
RW1ZZ	"	**256,908**	**843**	**34**	**124**
RV6YY	"	170,850	663	33	117
RW3WV	"	112,042	650	23	83
RW3FO	3.5	**98,792**	**709**	**25**	**81**
UA6BAD	"	66,458	628	19	75
UA6LTI	"	64,512	442	18	78
RW3XX	"	57,469	514	18	83
RA4PO	"	47,960	351	17	71
RX3AP	"	6,105	95	6	31
UA6XT	"	850	24	20	34
RA4NW	1.8	**47,386**	**375**	**22**	**64**
UA4CJJ	"	19,468	281	10	52
***RA1ACJ**	A	**1,055,556**	**1390**	**97**	**339**
UA3ABJ	"	***978,208***	***1330***	***102***	***295***
***UA4WAN**	"	**936,124**	**1259**	**115**	**354**
*UA4FER	"	917,285	1268	113	366
*RA3CW	"	820,105	1147	114	367
*UA4LA	"	818,040	1167	109	299
*RK3BY	"	720,892	988	111	347
*RW1AI	"	653,672	1043	91	313
*RV6LFE	"	539,537	997	83	254
*RW1ON	"	497,710	811	88	267
*UA1OMX	"	478,515	701	100	265
*RU3AQY	"	371,308	787	69	229
*RX4CD	"	323,010	688	81	210
*UA3AGS	"	307,008	554	82	206
*RA1QJA	"	282,653	573	61	210
*RA1QX	"	282,396	520	76	227
*UA4YG	"	250,952	711	56	161
*RA3UAG	"	246,400	572	73	235
*RV4LM	"	197,650	391	76	219
*UA6AK	"	174,900	330	62	150
*UA4SS	"	155,040	585	53	187
*RV3YR	"	154,395	549	58	177
*UA6AGK	"	131,100	257	79	149
*RX3AHY	"	125,664	403	47	140
*UA4QK	"	109,434	263	67	116
*RW1OX	"	108,953	397	59	162
*UA1RJ	"	93,771	199	78	129
*RA6LAE	"	93,280	250	46	130
*RU6JJ	"	60,344	226	51	101
*UA4AO	"	43,848	187	34	74
*RW1QF	"	27,720	129	41	79
*UA6JY	"	22,770	72	47	68
*UA3UMT	"	19,596	140	24	68
*RW3VA	"	11,468	83	28	33
*RA3XA	"	7,808	91	17	47
*UA3UKQ	"	950	27	16	22
*RV3UC	"	700	21	18	17
***RW6BN**	28	**43,674**	**247**	**24**	**63**
*UA3XBB	"	38,412	224	26	73
***UA4LM**	21	**389,025**	**1236**	**38**	**137**
*UA4PFO	"	159,294	604	33	90
*RN3AU	"	92,620	472	29	81
*UA3ABT	"	79,860	323	28	93
*UA3SAQ	"	41,515	400	29	86
***RU3HD**	14	**274,822**	**1107**	**31**	**106**
***RW4WM**	"	**194,100**	**711**	**36**	**114**
*UA1ANA	"	133,125	526	34	91
*UA3VCS	"	110,352	530	30	91
*RU4HH	"	101,036	478	30	86
*RX3RZ	"	44,344	276	25	67
***RW4PL**	7	**139,916**	**574**	**31**	**102**
*UA3VLO	"	10,880	124	12	52
***RZ6FR**	3.5	**87,696**	**797**	**14**	**70**
***UA1TAN**	1.8	**6,400**	**226**	**8**	**42**
*UA6LP	"	4,982	48	15	38

FAROE ISLANDS

OY1CT	A	**991,684**	**2074**	**69**	**263**

FINLAND

OH1MM	A	**4,374,240**	**3379**	**143**	**481**
OH5LF	"	**3,994,272**	**3094**	**156**	**492**
OH6RX	"	**2,725,254**	**2489**	**128**	**375**
OH8LAE	"	2,329,470	2022	137	448
OH4JFN	"	1,380,350	2051	117	358
OH5XL	"	1,336,552	1942	112	294
OH6KN	"	1,198,512	1318	117	387
OH6RE	"	577,486	838	83	183
OH1BV	"	153,360	412	55	158
OH1BOI	"	53,949	178	48	99
OH2AQ	28	***190,720***	***748***	***33***	***116***
			(Opr. OH2NRV)		
OH7JL	"	39,990	210	23	70
OH1F	21	**607,338**	**1744**	**37**	**126**
			(Opr. OH1NOA)		
OH2BR	"	383,308	1183	37	121
OH3WS	"	151,256	543	32	114
OH7WW	"	127,617	661	29	74
OH1F	14	**710,710**	**2127**	**36**	**118**
			(Opr. OH1MDR)		
OH8LQ	"	417,152	1958	37	91
OH1ZAA	"	154,679	591	34	99
OH2BCD	"	25,296	228	16	51
OH9DX	7	***608,548***	***2051***	***36***	***131***
OH6ZH	"	51,040	187	30	86
OH1MA	3.5	**184,920**	**1094**	**29**	**109**
OH9UFO	"	101,480	685	24	94
OH9BVM	"	92,862	631	27	99
OH1SH	"	62,980	475	18	76
OH1PY	"	378	9	6	8
OH4MFA	1.8	**56,764**	**558**	**19**	**73**
OH5VT	"	54,223	460	20	77
OH4ML	"	33,264	353	15	62
OH7UE	"	5,070	453	16	62
***OH8BQT**	A	**1,012,095**	**1145**	**109**	**350**
***OH2NN**	"	**537,672**	**802**	**86**	**258**
*OH2VF	"	489,846	733	83	244
*OH6RC	"	200,645	338	80	234
*OH7HMC	"	144,207	435	49	140
*OH3NM	"	132,525	282	61	164
*OH3WW	"	128,616	371	48	136
*OH3IR	"	120,400	355	54	146
*OH2FS	"	97,554	216	72	141
*OH7JHI	"	87,840	277	44	139
*OH1JMH	"	87,468	162	43	154
*OH2MJW	"	66,552	311	36	105
*OH2LYP	"	56,496	446	41	135
***OH5PA**	28	**26,877**	**120**	**22**	**71**
*OH4LJL	"	22,493	118	23	60
*OH2EJ	"	21,250	104	22	63
*OH3KOH	"	2,015	26	12	19
***OH5BM**	21	**359,531**	**1205**	**35**	**116**
*OH8NLC	"	142,978	476	32	102
*OH3KRH	"	130,350	354	40	118
*OH7MN	"	79,121	401	30	97
*OH9JIW	"	57,816	258	26	73
*OH6MBQ	"	52,718	305	23	63
*OH1UP	"	11,417	116	15	34
***OH2LP**	14	**62,700**	**303**	**27**	**83**
*OH3MC	"	56,385	251	27	78
*OH2BPA	"	52,788	269	26	80
*OH4TY	"	38,016	243	25	63
***OH2BSQ**	3.5	**45,738**	**532**	**13**	**64**
*OH3GD	"	34,884	173	20	88

FRANCE

TM9C	A	***2,928,660***	***3701***	***101***	***298***
			(Opr. F5IN)		
F6IRA	"	896,000	1329	86	264
F5RAB	"	219,258	459	61	173
F2AR	"	106,578	342	50	141
F6CWA	1.8	**39,585**	**411**	**18**	**69**
F5NBX	"	14,196	251	7	45
***F5JBR**	A	**664,815**	**974**	**82**	**263**
***F5TNI**	"	**472,815**	**1030**	**110**	**285**
***F5OIH**	"	**395,424**	**698**	**70**	**218**
*F5ROX	"	265,356	710	64	179
*F5NQL	"	258,120	746	64	206
*F5JLV	"	185,820	582	49	141
*F6DZD	"	172,608	504	42	132
*F6CAV	"	151,512	501	46	131
*F6ABI	"	90,720	540	42	126
*F5LBG	"	45,050	248	35	70
*F5OIU	"	38,784	199	36	65
*F5ORE	"	38,160	212	30	60
*F6DCH	"	15,884	125	29	59
*F5NLX	"	15,198	100	19	32
*F2FX	"	14,050	69	22	50
*F6FTB	"	12,848	118	24	64
***F5ITK**	28	**93,195**	**519**	**27**	**68**
*F5LJY	"	50,974	257	25	52
*F5TRO	"	18,984	158	19	37
***F6EXV**	21	***88,650***	**561**	**25**	**65**
***F/OK1EE**	7	**165,060**	**778**	**29**	**102**
*F5MMX	"	44,814	460	14	52
*F5JDG	"	25,200	236	15	55
*F5ICX	"	390	26	5	5
*F3AT	1.8	6,030	124	7	38

GERMANY

DL4NAC	A	***4,872,882***	***3216***	***154***	***487***
DK5PD	"	**2,159,616**	**1949**	**136**	**456**
DL4MCF	"	**2,083,816**	**1820**	**129**	**457**
DJ9DZ	"	1,878,963	1801	114	423
DJ5JH	"	1,721,590	1549	129	404
DL2DX	"	1,582,530	1436	143	367
DL4BQE	"	1,261,575	1522	98	347
DK3KD	"	1,067,556	1628	90	268
DL2KUW	"	988,172	1181	110	357
DL5BUT	"	975,456	1227	105	327
DFØFS	"	945,820	1447	88	292
				(Opr. DL1EKC)	
DL6UNF	"	762,135	1033	87	254
DK7CX	"	708,630	905	94	296
DL1JF	"	706,482	1020	89	289
DL2MDU	"	678,972	890	108	305
DF1DV	"	601,762	937	95	276
DF3OL	"	514,745	741	97	288
DJ2IA	"	507,400	650	100	244
DL8UI	"	495,720	858	96	228
DL3BQD	"	476,088	866	76	256
DL8YR	"	457,600	774	78	247
DL6AG	"	427,720	647	82	214
DL9XY	"	350,703	786	68	211
DM3XRF	"	218,890	522	72	193
DJ8UV/P	"	216,619	556	58	189
DJ2YE	"	178,000	535	49	151
DL3DRN	"	129,115	280	57	160
DL4KBS	"	122,816	402	56	146
DK8RE	"	118,726	330	48	130
DL6DVU	"	115,045	341	54	119
DL3DBY	"	99,224	333	43	114
DL5ZB	"	77,973	180	87	150
DK7AN	"	39,675	150	39	76
DJ4QO	"	36,934	174	39	79
DL2DSA	"	26,596	100	50	82
DL3DCY	"	24,592	140	32	74
DK5EZ	"	11,308	93	22	22
DJ1YH	"	10,920	62	31	47
DL7MAE	"	54	3	3	3
DK5QN	28	**262,105**	**813**	**36**	**119**
DF9CY	"	**215,888**	**810**	**30**	**101**
DJ4KW	"	81,641	342	26	81
DK3WW	"	79,209	302	28	89
DL1IAD	21	**723,492**	**1815**	**38**	**136**
DKØSR	"	399,898	1266	37	121
				(Opr. DJ5PA)	
DL8UAT	"	78,366	334	27	84
DLØLR	"	68,425	493	31	84
DJ7AA	14	**768,768**	**2070**	**37**	**145**
DHØDX	"	296,808	1268	37	112
				(Opr. DL1YAW)	
DF4SA	7	**542,720**	**1633**	**35**	**125**
DK8FD	"	294,624	1093	31	113
DL5JAN	"	120,902	563	28	94
DL1EMH	"	106,359	508	28	93
DL7ALM	3.5	**100,152**	**683**	**21**	**83**
DJ7RJ	"	47,616	393	19	74
DK5IM	1.8	14,250	240	8	49
DJ3XD	"	7,585	200	6	31
***DL2MEH**	A	**2,240,217**	**2062**	**132**	**435**
***DL2HBX**	"	**2,100,324**	**1819**	**124**	**419**
***DKØMM**	"	**1,908,816**	**1725**	**126**	**420**
				(Opr. DJ7IK)	
*DL3JAN	"	1,065,494	1367	104	342
*DL7QU	"	985,130	1220	97	298
*DL2HQ	"	875,350	1098	104	323
*DL7ANR	"	675,648	955	94	274
*DF3QG	"	655,285	794	110	305
*DL3BRA	"	607,750	925	94	280
*DL1SAN	"	559,650	1011	76	249
*DL8ZAW	"	558,126	858	78	229
*DL1VDL	"	462,000	632	91	239
*DL4JYT	"	433,805	778	67	198
*DK7ZH	"	420,576	660	80	232
*DJ8EW	"	365,637	705	72	235
*DL5JRA	"	354,705	834	63	192
*DFØIT	"	327,978	758	66	200
				(Opr. DF6QC)	
*DL3ZAI	"	324,380	693	59	186
*DL7CF	"	297,250	535	69	181
*DL5SVB	"	289,710	558	71	190
*DL1TH	"	280,577	720	63	190
*DL1ARJ	"	273,728	306	125	204
*DL7IZ	"	260,100	485	56	169
*DL7UXG	"	200,128	548	60	176
*DL2ANM	"	194,964	419	76	155
*DL8DWW	"	181,888	449	57	167
*DF1QQ	"	162,732	400	58	155
*DL4TJ	"	162,400	400	53	150
*DL1ZU	"	151,088	281	88	216
*DF6VI	"	146,452	463	52	112
*DJ4PT	"	146,174	389	54	143
*DJ3OE	"	132,966	346	52	126
*DF1LON	"	127,218	369	51	131
*DL5WS	"	122,159	321	48	103
*DL8NBJ	"	120,712	337	53	138
*DL5ST	"	118,802	302	57	134
*DL2FDD	"	114,276	310	50	128
*DL8ULO	"	113,827	410	44	117
*DL5DBH	"	106,392	410	38	118
*DAØHSC	"	102,429	200	61	110
				(Opr. DL1ZQ)	
*DL2GBB	"	102,120	340	40	98
*DL6QW	"	96,390	331	47	123
*DF1ZN	"	84,296	292	50	114
*DL6UAM	"	83,578	320	37	94
*DL3BZZ	"	80,707	261	41	80
*DL3HRT	"	71,980	237	30	92
*DL5AOJ	"	66,555	250	42	111
*DL3YEI	"	59,640	249	37	83
*DL7AXM	"	46,250	134	45	80
*DF1TJ	"	42,722	234	20	82
*DL6ZNG	"	42,182	160	48	83
*DM3XI	"	40,375	155	42	53
*DL4OCM	"	38,862	180	51	102
*DL1ECG	"	29,904	201	37	75
*DL2AL	"	27,462	290	32	71
*DL5JMN	"	27,300	153	27	51
*DL8UVG	"	24,864	146	27	69
*DK9KW	"	19,565	80	37	54
*DL4AAE	"	17,272	91	25	43
*DL2MIH	"	12,584	55	30	58
*DH3MG	"	12,103	150	28	63
*DL3JRA	"	10,864	76	24	32
*DL1IA	"	9,639	73	22	59
*DF5ZV	"	7,370	63	20	35
*DL5ANS	"	3,924	43	16	20
*DL4ABR	"	3,818	67	13	33
*DL6UOF	"	2,781	47	8	19
*DL5FCO	"	864	27	6	6
*DL5CX	"	480	10	7	9
***DL7AU**	28	**126,144**	**364**	**29**	**177**
***DL7VMM**	"	**119,320**	**357**	**38**	**114**
*DL4UL	"	77,226	296	33	89
*DJ2QV	"	66,726	255	24	75
*DL4WA	"	15,912	114	19	33
*DM3PKK	"	1,770	27	13	17
*DJ8FR	"	1,419	29	13	20
***DL3DTH**	21	**142,978**	**531**	**31**	**103**
*DJ5GG	"	100,572	390	27	89
*DF6LQ	"	41,537	239	22	51
*DL2YAK	"	35,568	242	22	54
*DL2NEQ	"	10,485	114	14	31
***DK3DM**	14	**253,151**	**873**	**35**	**114**
*DF7TU	"	46,893	300	18	69
*DL3HSC	"	34,410	199	23	70
*DJ5TU	"	15,680	56	10	28
***DJ2XC**	7	**66,872**	**310**	**23**	**81**
*DL2HX	"	17,760	149	19	61
*DL9CC	"	6,765	76	19	22
*DJ5MN	"	1,380	25	9	24
***DL6MTA**	3.5	**73,563**	**560**	**16**	**77**
*DF5WN	"	6,407	132	7	36

GIBRALTAR

***ZB2EO**	28	**65,475**	**348**	**24**	**73**

GREECE

***SV1DKR**	A	**961,630**	**2058**	**84**	**286**
*SV2BFL	"	195,206	410	75	134
*J41Y	"	117,260	706	58	162
*SV2BBJ	"	82,290	247	59	136
***SV1DPJ**	21	**175,734**	**1015**	**28**	**89**
*SV1RP/SV7	14	12,230	163	15	40

GUERNSEY

GU6UW	A	***5,047,170***	**4194**	**127**	***428***
				(Opr. G3XTT)		

HUNGARY

HA8FM	A	**3,734,322**	**3955**	**142**	**385**
HA8JV	"	**2,865,016**	**2649**	**153**	**463**
HA3LI	"	1,628,121	2096	115	364
HAØIT	"	1,266,636	1498	115	361
HA5AGS	"	1,072,140	1387	105	323
HA3PT	"	124,925	742	64	199
HG1W	28	**296,072**	**1183**	**34**	**102**
				(Opr. HA1YA)	
HA8UH	"	5,960	74	14	26
HA3JB	21	**118,708**	**445**	**31**	**87**
HG5J	14	**573,695**	**1627**	**37**	**142**
HG5C	"	277,065	1335	33	108
HA5JP	"	111,366	418	34	104
HG9X	7	**346,773**	**1500**	**32**	**115**
HG5A	3.5	**183,436**	**1332**	**27**	**94**
				(Opr. HA7VB)	
HAØKHT	"	55,610	501	17	66
HA6VA	"	31,894	333	11	63
HA8BE	1.8	**82,800**	**756**	**20**	**80**
***HA1CW**	A	**2,331,648**	**2297**	**143**	**464**
*HA4YF	"	770,640	1163	94	296
*HAØHH	"	358,308	694	68	201
*HAØDD	"	191,672	434	66	181
*HA8IC	"	176,217	480	47	104
*HA6QD	"	24,045	144	36	69
***HA1VE**	21	**111,399**	**646**	**22**	**49**
***HA6KNX**	14	**121,278**	**467**	**30**	**93**
				(Opr. HA6NW)	
*HA3RG	"	12,474	89	19	44
***HA8RH**	3.5	**110,865**	**954**	**18**	**77**
*HA7JJS	"	95,700	906	17	70
*HA8IB	"	78,015	776	21	84
*HG6V	"	59,007	540	16	73
***HA3MQ**	1.8	**49,192**	**657**	**14**	**74**

IRELAND

EI4BZ	A	**810,030**	**1295**	**83**	**252**
***EI4DW**	A	**680,685**	**1040**	**79**	**266**
*EI4II	"	198,000	546	58	142
***EI8GP**	28	**191,394**	**817**	**20**	**73**
***EI6FR**	21	**246,848**	**1171**	**32**	**101**
***EI7IU**	1.8	**31,507**	**482**	**11**	**50**

ISLE OF MAN

GD4UOL	A	**1,517,714**	**2402**	**101**	**362**

ITALY

I3EVK	A	**1,224,405**	**1538**	**113**	**342**
IQ6T	"	**1,171,170**	**1720**	**123**	**332**
				(Opr. IK6SNQ)		
IK4WMB	"	1,107,294	1526	94	264
IK3ORD	"	624,169	902	89	272
I3FDZ	"	275,400	571	91	215

IR7A	"	271,260	643	72	202	
			(Opr. I7ALE)			
IK2EGL	"	106,683	501	45	84	
I6FDJ	"	91,800	381	43	110	
IZ4BBA	"	41,922	193	43	94	
IK1ZOH	"	21,836	101	44	62	
IQ4A	**28**	**487,494**	**1342**	**36**	**123**	
			(Opr. I4IND)			
IQ5Z	"	195,507	770	35	82	
			(Opr. IZ5AXA)			
IR4T	**21**	**769,484**	**1896**	**38**	**150**	
			(Opr. IK2QEI)			
IR2W	**14**	**729,444**	**2094**	**38**	**140**	
			(Opr. I2VXJ)			
IK2RJK	"	12,506	124	22	52	
II1H	**3.5**	**146,475**	**1062**	**23**	**82**	
			(Opr. I1HJT)			
IZ3ALF/3	"	36,032	441	13	51	
IR4T	**1.8**	**159,654**	**1051**	**26**	**92**	
			(Opr. IK4UPB)			
***I3JSS**	**A**	**1,712,050**	**1888**	**119**	**366**	
***IK1RQQ**	**"**	**1,438,805**	**1595**	**107**	**358**	
***IK4WMH**	**'**	**841,068**	**1141**	**92**	**291**	
*IV3TQE	"	723,320	900	101	327	
*IK4EWX	"	710,616	1102	84	264	
*IV3NVN	"	420,810	537	114	301	
*IZØAIS	"	310,310	491	78	232	
*I4FGG	"	235,470	523	62	173	
*IKØXFD	"	221,779	487	64	163	
*IK3HUG	"	196,600	614	46	154	
*IKØCNA	"	161,230	354	62	168	
*IØKHP	"	138,096	377	47	151	
*I2WIJ	"	133,824	327	54	110	
*IZ8BLZ	"	121,550	368	52	118	
*I4JEE	"	102,588	264	67	182	
*IK8WEI	"	91,935	337	41	94	
*IK2TQG	"	86,765	280	54	131	
*IQØA	"	79,376	281	47	117	
			(Opr. IKØXBX)			
*IZØANC	"	73,408	253	46	102	
*IK2AIT	"	42,880	209	30	50	
*I7PXV	"	41,340	145	35	71	
*IKØADY	"	32,970	169	34	71	
*IK7QHS	"	27,615	172	36	69	
*IK4NPC	"	23,625	183	25	50	
*IK6HWX	"	12,240	86	27	41	
*IK2IKW	"	10,906	62	34	48	
*IK1NLZ	"	9,504	93	16	38	
*IØLTX	"	6,642	94	27	54	
*IK8YFW	"	3,655	103	19	45	
*IV3KSE	"	3,600	46	20	28	
*IØYQV	"	1,888	45	15	17	
*IK1YEE	"	100	81	16	22	
*IK5RLS	"	100	11	8	10	
***I1XPQ**	**28**	**158,267**	**629**	**28**	**87**	
*I3MLU	"	56,700	284	24	66	
***IK4DCT**	**21**	**490,196**	**1350**	**36**	**128**	
***IK2YSE**	**14**	**43,962**	**241**	**25**	**77**	
*IZ3BQT	"	37,464	247	21	63	
***IQ7A**	**7**	**292,420**	**1328**	**31**	**105**	
			(Opr. IK7XIV)			
*I5OQV	"	4,788	94	9	27	
***II2P**	**1.8**	**15,216**	**289**	**7**	**41**	

JERSEY

***MJØASP**	**14**	**100,200**	**590**	**24**	**76**
			(Opr. F5SHQ)		

KALININGRAD

UA2CZ	**A**	**143,115**	**447**	**56**	**147**
RA2FB	**A**	**122,310**	**353**	**39**	**123**

LATVIA

YL2KO	**A**	**2,115,016**	**2133**	**117**	**365**
YL8ØMR	"	757,440	1468	80	240
YL2IP	"	160,550	300	69	178
YL2GN	**7**	**110,282**	**521**	**31**	**103**
YL3IZ	**3.5**	**190,266**	**1289**	**24**	**90**
YL2SM	**1.8**	**58,520**	**576**	**17**	**71**
YL2PJ	"	32,485	376	11	62
***YL2KA**	**A**	**967,542**	**1208**	**100**	**338**
YL2KF	"	122,208	342	51	150
***YL3FW**	**14**	**105,040**	**635**	**27**	**77**
***YL2PP**	**7**	**18,160**	**174**	**19**	**61**

LITHUANIA

LY5W	**A**	**2,988,110**	**2585**	**154**	**501**
			(Opr. LY1DR)		
LY6M	**'**	**2,230,392**	**1587**	**145**	**452**
			(Opr. LY1DS)		
LY2MM	"	1,100,757	1259	108	483
LY2HN	"	897,128	1074	119	389
LY2DX	"	208,845	628	50	171
LY2BBF	"	93,626	312	45	124
LY3BU	"	46,767	317	34	97
LY2CI	**28**	**297,594**	**961**	**36**	**126**
LY2KM	"	178,996	571	32	114
LY2BR	"	100,983	344	26	97
LY8X	**14**	**280,756**	**1174**	**34**	**114**
			(Opr. LY1FF)		
LY2BN	"	265,968	993	35	109
LY1DI	"	58,752	465	24	72
LY3BX	**7**	**179,270**	**1038**	**29**	**101**
LY3BS	**1.8**	**96,720**	**743**	**22**	**82**
LY3CI	"	40,348	449	14	63
***LY3BA**	**A**	**2,543,038**	**2246**	**127**	**439**
***LY2BTA**	**"**	**1,835,808**	**2325**	**140**	**484**
*LY1BW	"	681,296	1187	69	247
*LY2GV	"	640,288	1069	86	266
*LY3CW	"	489,880	524	78	253
*LY2FN	"	450,522	901	73	236
*LY2LA	"	321,280	714	64	192
*LY1DM	"	133,724	304	54	148
*LY2PBM	"	128,872	525	39	139
*LY2GF	"	125,568	551	36	108
*LY2CX	"	60,280	250	42	95
*LY1XA	"	17,181	83	32	51
***LY2AT**	**28**	**38,412**	**180**	**25**	**74**
***LY2BM**	**7**	**158,136**	**796**	**30**	**102**
*LY3JY	"	134,504	713	32	104
*LY1DD	"	95,352	525	28	88
*LY2BLQ	"	67,588	564	28	94
***LY2OU**	**1.8**	**26,605**	**387**	**11**	**57**

LUXEMBOURG

LX4B	**1.8**	**95,374**	**1022**	**16**	**70**
			(Opr. OH2PQ)		
*LX1JH	A	42,880	192	38	90

MACEDONIA

Z31GB	**21**	**377,760**	**1267**	**37**	**123**
Z37FCA	14	722	18	8	11
Z39Z	**7**	**511,344**	**2188**	**33**	**111**
			(Opr. Z32AF)		
Z32KV	3.5	378	18	5	13
*Z31DZ	14	5,060	61	14	30

MALTA

9HØA	**28**	**840,434**	**2545**	**36**	**137**
***9H3YQ**	**7**	**107,779**	**963**	**20**	**69**
			(Opr. DJ7PR)		

MOLDOVA

ER5AA	**A**	**1,206,584**	**1851**	**92**	**284**
ER7N	**28**	**240,298**	**778**	**33**	**104**
ER10A	**21**	**114,950**	**489**	**33**	**88**
ER5 /UX3FW	**14**	**296,209**	**1574**	**34**	**105**
ER2GR	1.8	8,722	149	8	41
***ER10O**	**28**	**169,514**	**665**	**34**	**97**

MONACO

3A/N9NC	**A**	**2,927,808**	**3211**	**127**	**417**

NETHERLANDS

PA3HBI	**A**	**325,710**	**617**	**78**	**204**
PA3GUA	"	89,240	352	34	81
PA3ADJ	21	18,120	210	12	28
PAØCLN	**1.8**	**64,032**	**583**	**18**	**78**
***PAØRCT**	**A**	**861,273**	**1549**	**78**	**265**
***PA3AAV**	**"**	**663,309**	**756**	**103**	**328**
*PAØLOU	"	522,792	663	110	301
*PAØJR	"	348,743	598	78	197
*PA3BFH	"	322,560	645	68	184
*PA3ELD	"	304,234	679	62	155
*PAØCOE	"	188,574	543	48	111
*PA3DUS	"	140,999	428	51	130
*PA3GRM	"	138,012	461	61	156
*PAØCOR	"	108,329	365	45	124
*PA3ECJ	"	81,760	281	46	100
*PA3GFH	"	52,316	242	42	122
*PAØSKP	"	46,498	208	36	98
*PA3DMH	"	44,799	155	45	92
*PA3ASC	"	10,541	73	25	58
*PAØRBS	"	8,804	100	31	31
*PA3BEJ	"	7,626	77	20	62
***PA3BUD**	**28**	**80,704**	**347**	**26**	**78**
***PAØJED**	**"**	**79,560**	**356**	**25**	**77**
*PAØPLN	21	31,076	201	21	47
***PAØMIR**	**3.5**	**22,632**	**273**	**13**	**56**

NORTHERN IRELAND

GIØKOW	**A**	**6,961,240**	**4788**	**164**	**551**
			(Opr. GIØNWG)		
***GI4SNC**	**A**	**398,736**	**794**	**56**	**178**
*GIØKVQ	21	19,844	234	12	32

NORWAY

LA7MFA	**A**	**1,595,230**	**1844**	**107**	**348**
LAØCX	"	951,180	1207	108	307
LA5ZC	"	281,274	764	51	130
LA6PB	"	205,568	526	65	191
LA4XT	28	23,256	130	22	54
LA1PHA	7	2,772	69	10	26
LA6YEA	**3.5**	**209,677**	**1174**	**28**	**99**
LA2O	1.8	10,120	241	8	47
***LA9HFA**	**A**	**720,360**	**1281**	**87**	**261**
*LA2HFA	"	400,810	708	71	227
*LA4XFA	"	55,890	200	38	97
*LA5KW	"	43,326	32	18	29
*LA9AU	"	19,228	159	21	71
*LA5TFA	"	7,081	84	27	46
*LA8LA	"	6,136	40	24	35
*LA2MJA	21	6,144	87	6	7
*LA8WG	1.8	11,352	144	10	56

POLAND

SP4Z	**A**	**3,658,850**	**3042**	**150**	**500**
SP8FHK	**'**	**1,474,739**	**1858**	**113**	**348**
SN7N	**'**	**1,025,766**	**1388**	**104**	**337**
			(Opr. SP7NMW)		
SP5UAF	"	454,080	700	92	252
SP3FZN	"	323,420	524	86	228
SP4KGB	"	283,575	705	82	203
SP3HUU	"	131,328	263	83	145
SP2IU	"	124,400	244	69	131
SP2KJH	"	112,117	364	50	141
SP6AZT	"	76,570	255	48	142
SP1PLA	"	41,280	113	57	103
SP2DKI	"	36,566	186	32	62
SP1MHV	"	30,600	89	58	78
SP4EAK	"	8,440	79	9	31
SP4TKO	"	2,992	71	8	36
SP6AYP	"	1,323	28	22	27
SP2FOV	**28**	**240,318**	**689**	**35**	**123**
SP3KFH	"	194,129	582	33	104
			(Opr. SP3GTS)		
SP5DDJ	"	144,300	478	34	96
SP7ELQ	"	96,228	295	32	100
SP6LV	"	44,469	233	23	58
SP6CIK	"	39,037	176	29	74
SP5GRM	**21**	**584,972**	**1546**	**40**	**139**
SP3SLA	"	355,907	1059	32	119
SP9W	"	260,420	1172	34	111
SP5BB	"	1,275	32	7	10
SN8V	**14**	**430,050**	**1506**	**35**	**115**
			(Opr. SP8GQU)		
SN2B	**7**	**759,330**	**2319**	**39**	**138**
			(Opr. SP2FAX)		
SP3EQE	"	64,155	318	25	80
SP9ABU	"	57,456	265	25	83
SN3A	**3.5**	**437,904**	**1870**	**34**	**110**
			(Opr. SP3HLM)		
SP7GIQ	"	343,980	1708	31	95
SP3KCL	"	78,960	731	18	76
SP5GH	"	48,600	182	18	90
***SP2OCH**	**A**	**1,532,440**	**1867**	**113**	**342**
***SP2EWQ**	**"**	**998,440**	**1309**	**106**	**352**
***SP6CYX**	**'**	**890,240**	**1360**	**100**	**316**
*SP1NY/MM	"	675,011	1241	76	261
*SP1AEN	"	621,810	850	90	288
*SP6CDP	"	504,252	749	81	241
*SQ9BZK	"	460,096	1027	84	232
*SP3VT	"	381,744	868	60	181
*SP9GKM	"	250,701	604	65	148
*SP8BSQ	"	229,824	613	59	193
*SP3JUN	"	216,153	657	51	168
*SP9NSV/7	"	199,987	518	57	170
*SP3MGP	"	165,148	511	52	160
*SP5GKN	"	150,480	349	54	136
*3ZØXR	"	136,000	383	48	112
*SP5CGN	"	126,474	386	61	136
*SP1DPA	"	104,720	273	58	118
*SP6CXH	"	97,580	314	49	121
*SQ2HEB	"	85,340	346	45	125
*SP6BEN	"	72,520	142	69	116
*SP6YGB/9	"	67,986	306	40	124
			(Opr. SQ9CAQ)		
*SQ5BUO	"	66,600	287	50	100
*SP8NTW	"	63,350	278	48	127
*SP5NZL	"	62,463	291	42	99
*SQ9DXN	"	60,102	195	57	132
*SP2MKT	"	51,183	218	41	100
*SP9KJU	"	26,976	159	25	71
			(Opr. SP9MDY)		
*SP9KAT	"	20,124	234	23	63
*SP2QVS	"	19,742	164	47	69
*SP6CRU	"	17,020	114	32	42
*SP6NIF	"	14,608	66	31	52
*SP7ICE	"	14,444	62	42	50
*SP3DBD	"	11,232	60	29	43
***SP3SUX**	**28**	**201,117**	**531**	**37**	**120**
*SP3LWP	"	102,250	351	31	94
*SQ5EWG	"	38,556	150	23	61
*SP5LCC	"	28,800	158	24	48
*SQ9HYM	"	25,023	173	18	39
*SP1AFU	"	20,680	160	17	38
*SP3AOT	"	13,426	111	19	30
*SP4AAZ	"	8,664	94	14	24
*SP3AZO	"	6,084	72	15	21
***SP9BBH**	**21**	**238,810**	**752**	**34**	**109**
***SP2AVE**	**"**	**191,268**	**636**	**31**	**107**
*SP9DAE/9	"	93,009	441	28	75
*SP9QJ	"	63,835	315	23	62
*SP1BLE	"	21,903	179	16	33
***SP8BAB**	**14**	**86,515**	**276**	**27**	**94**
*SP6SYF	"	48,958	288	22	69
*SP9OYK	"	45,448	337	18	58
*SP5ICS	"	27,750	233	19	55
***SP4DEU**	**7**	**65,920**	**389**	**23**	**80**
*SP3AIT	"	5,576	105	7	34
*SP3GTS	"	3,402	41	11	31
***SP9NLK**	**3.5**	**61,440**	**531**	**20**	**76**
*SQ1BVG	1.8	1,274	49	4	22

PORTUGAL

CT/F6EPY	**21**	**213,413**	**1211**	**26**	**75**
*CT1BNW	28	23,450	145	20	50
***CT1BQH**	**21**	**443,120**	**1606**	**35**	**110**
***CT1AOZ**	**3.5**	**73,514**	**536**	**19**	**70**

ROMANIA

YO3ND	**A**	**1,145,808**	**1709**	**107**	**329**
YO4FRF	**7**	**260,729**	**1190**	**26**	**93**
***YO3APJ**	**A**	**1,954,437**	**1891**	**133**	**458**
***YO3FRI**	**"**	**948,789**	**1311**	**104**	**319**
*YO3FWC	"	931,845	1657	92	273
*YO8FR	"	798,867	1003	76	257
*YO2DFA	"	780,278	1269	104	318
*YO6BHN	"	453,586	810	91	267
*YO8BPK	"	444,027	801	77	206
*YO4XF	"	145,008	374	60	161
*YO5DAS	"	48,604	262	36	80
***YO4GDP**	**21**	**84,788**	**491**	**25**	**69**
*YO4GJS	"	100	17	9	9
***YO3CTK**	**14**	**115,346**	**677**	**24**	**83**
*YR8A	"	54,963	346	26	67
			(Opr. YO8AXP)		
*YO8RXP	7	23,058	281	14	47
*YO9FJW	"	6,625	109	10	35
***YO9AYN**	**3.5**	**16,560**	**360**	**16**	**40**
*YO2CJX	1.8	2,079	80	4	23

SARDINIA

ISØ /YO3RA	**28**	**113,620**	**448**	**31**	**84**
***ISØHQJ**	**A**	**279,510**	**1061**	**63**	**179**
*ISØIGV	"	209,880	537	47	112
*ISØGSR	"	198,006	662	45	138
*ISØUWX	"	47,736	245	37	80
***ISØSDX**	**28**	**28,832**	**244**	**19**	**33**

SCOTLAND

GM4YXI	**21**	**672,175**	**2002**	**39**	**122**
GM3POI	**14**	**820,080**	**2517**	**36**	**117**
GMØGAV	**3.5**	**249,500**	**1259**	**25**	**100**
GM4AFF	"	154,936	1152	20	87
***GM4SID**	**A**	**886,704**	**1199**	**92**	**300**
***GM3CFS**	**21**	**105,792**	**433**	**26**	**88**

SICILY

IR9T	**21**	**456,980**	**1582**	**35**	**111**
			(Opr. IT9GSF)		
***IT9ORA**	**A**	**256,486**	**619**	**67**	**190**
*IT9TWC	"	155,344	481	76	190
*IT9VDQ	"	45,220	185	43	90
*IT9ZYT	"	15,330	105	36	69
***IT9AF**	**21**	**138,508**	**787**	**31**	**93**
***IT9XUC**	**14**	**320,320**	**1593**	**26**	**86**

SLOVAK REPUBLIC

OM5M	**A**	**4,157,721**	**3393**	**150**	**437**
			(Opr. OM3BH)		
OM3OM	"	801,964	1778	90	289
OM8FF	"	160,857	394	57	126
OM1GM	"	23,874	120	32	37
OM7M	**21**	**584,150**	**1520**	**38**	**137**
			(Opr. OM5RM)		
OM3NA	**14**	**633,435**	**1995**	**37**	**128**
OM5ZW	**1.8**	**117,771**	**837**	**23**	**88**
***OM8ON**	**A**	**743,442**	**773**	**111**	**323**
***OM3GB**	**"**	**631,449**	**799**	**87**	**264**
*OM4DN	"	425,505	1029	62	223
*OM7PY	"	376,390	685	69	214
*OM3BA	"	208,600	406	70	210
*OM1AF	"	160,512	578	42	150
*OM1ADM	"	32,830	239	38	96
*OM7AG	"	31,312	118	43	60
*OM3CAE	28	15,652	153	14	38
***OM7YC**	**21**	**49,344**	**208**	**26**	**70**
*OM4RM	"	41,076	175	24	60
***OM9TR**	**14**	**46,251**	**332**	**20**	**61**
			(Opr. OM3TB)		
*OM2TB	"	21,150	154	20	55
*OM2AW	"	4,750	49	18	32
*OM3TU	"	4,530	100	11	20
*OM3ROS	"	4,250	70	10	30
			(Opr. OM3CMM)		
***OM4WW**	**7**	**83,304**	**457**	**22**	**82**
*OM1AW	"	20,100	211	12	55
*OM3CDN	3.5	11,730	193	8	43
*OM3WQQ	1.8	16,268	152	4	30

SLOVENIA

S58A	**A**	**6,628,059**	**4541**	**168**	**559**
S55A	**"**	**1,246,076**	**1513**	**102**	**301**
S53MA	"	1,052,312	1489	96	302
S59L	"	469,200	948	82	190
S51NY	"	268,758	567	73	170
S51AY	**28**	**385,352**	**1129**	**35**	**116**
S5ØK	**21**	**461,448**	**1460**	**36**	**117**
S53M	**14**	**416,100**	**1645**	**33**	**113**
S57AL	**7**	**532,526**	**1879**	**32**	**117**
S57DX	**"**	**531,180**	**1856**	**32**	**124**
S52O	"	519,680	2088	32	108
S53O	"	345,780	1482	35	118
S5ØQ	"	197,640	1006	28	92
S5ØA	**3.5**	**458,738**	**1793**	**34**	**117**
S51OI	"	132,090	1031	27	75
S5ØU	**1.8**	**134,784**	**1024**	**23**	**85**
S57M	"	71,040	794	15	65
***S59AA**	**A**	**2,595,303**	**2034**	**148**	**483**
***S57J**	**"**	**1,415,232**	**1383**	**119**	**367**
*S54X	"	936,100	1198	104	303
*S53FO	"	672,008	987	84	250
*S51WA	"	570,266	717	93	256
*S55WW	"	555,900	916	77	263
*S51T	"	211,536	591	52	182
*S53AU	"	177,240	411	59	151
*S53BM	"	165,568	459	51	148
*S51NM	"	79,200	410	32	100
*S57CQ	28	100	163	15	41
***S51TA**	**21**	**230,945**	**826**	**34**	**109**
*S59DBC	"	195,582	841	31	80
*S51MF	"	102,360	352	31	89
***S58AL**	**14**	**388,680**	**1357**	**35**	**129**
***S54A**	**7**	**217,800**	**835**	**32**	**118**
***S53F**	**'**	**175,934**	**780**	**25**	**96**
*S54W	"	86,652	478	28	88
***S52GO**	**3.5**	**78,624**	**652**	**20**	**76**
*S51RJ	"	63,684	597	16	71
*S54AC	"	39,785	437	15	58

SPAIN

EA3NY	**A**	**3,215,612**	**3226**	**132**	**389**
EA1FBU	**"**	**491,470**	**1314**	**65**	**180**
EA2BDS	**"**	**358,924**	**732**	**66**	**178**
EA5DCL	**'**	**164,161**	**536**	**50**	**117**
EA1BHR	"	127,050	382	50	104
EA1BAE	"	103,936	452	55	148
EA1OJ	"	75,600	203	52	116
EA7CA	"	73,524	230	50	82
EA1EXV	"	54,846	192	58	140
EA7HAB	"	38,212	193	34	48
EA1BXW	"	29,876	114	42	55
EA1CMP	"	6,240	51	28	32
EA5WU	**28**	**303,455**	**1014**	**32**	**105**
EA5TD	"	26,059	118	32	71
EA1JO	**21**	**133,301**	**456**	**33**	**104**
EA1FEL	"	79,705	568	23	72
***EA7TG**	**A**	**1,122,917**	**1105**	**115**	**376**
***EA2BNU**	**"**	**868,335**	**1435**	**73**	**232**
***EA4DRV**	**'**	**481,683**	**932**	**73**	**234**
***EA3BOW**	**"**	**352,185**	**775**	**68**	**197**
*EA7AJR	"	297,330	681	71	184
***EC5AEB**	**"**	**259,056**	**797**	**41**	**127**
*EA5DNO	"	223,296	526	52	140
*EA5DWS	"	215,600	590	61	135
*EA7MT	"	200,028	453	61	150
*EA7GXX	"	197,010	439	58	141
***EA1FD**	**'**	**182,965**	**474**	**61**	**154**
*EA5LA	"	116,290	308	45	100
*EA5ARC	"	112,217	385	52	109
*EA5AGW	"	90,650	321	44	131
*EA4ECF	"	67,308	210	49	93
*EA4ANN	"	36,874	200	40	63
*EA2CR	"	32,340	180	26	80
*EA7FZ	"	27,225	161	23	52
*EA4BT	"	15,048	114	25	51
*EA4BNQ	"	13,926	119	26	40
*EC3AKC	"	10,920	90	17	43
*EA5IL	"	6,300	38	25	38
*EA7BUU	"	4,982	32	15	38
*EA5NU	"	2,982	25	17	25
*EA4CIE	"	2,142	25	19	23
*EA4ABP	"	1,876	42	8	21
*EA1BID	"	1,769	23	14	15
*EA1DFP	"	567	11	10	11
*EA7AFD	"	100	35	9	13
*EA3AQQ	"	100	38	26	32
***EA2AZ**	**28**	**45,276**	**287**	**24**	**60**
***EA7AKJ**	**"**	**44,714**	**268**	**21**	**58**
*EA7ASZ	"	26,426	161	24	49
*ED7OO	"	22,043	161	12	35
			(Opr. EA7OO)		
*EA4ATI	"	4,158	81	9	18
*EC3ACR	"	4,130	59	11	24
*EA3EHE	"	100	33	9	13
***EA5KK**	**21**	**124,806**	**655**	**30**	**92**
***EA7GYS**	**"**	**59,058**	**373**	**24**	**78**
*EC3AHO	"	3,550	189	13	37
*EA1EVR	"	2,772	54	7	14
*EA5WX	"	875	27	7	18
***EA3BCM**	**14**	**366,560**	**1248**	**35**	**110**
***EA4BL**	**"**	**93,104**	**685**	**26**	**62**
*EA1ND	"	47,742	355	16	57
*EA5AFH	"	495	11	4	11

SWEDEN

SM6NM	**A**	**735,680**	**903**	**98**	**320**
SK6AW	"	598,752	826	95	301
			(Opr. SM6DER)		
SM7EH	"	229,779	550	55	156
SM7GIB	"	19,074	91	36	66
SMØKV	**21**	**333,576**	**973**	**38**	**126**
SMØDRD	"	200,925	722	32	109
SM2DMU	**14**	**513,560**	**1736**	**37**	**111**
SM5RE	"	12,276	141	15	29
SMØKCO	**7**	**521,444**	**1821**	**35**	**119**
SM2VHD	"	53,040	653	19	59
SM5CEU	**3.5**	**110,848**	**563**	**27**	**101**
***SMØBDS**	**A**	**546,006**	**852**	**77**	**241**
***SM6BSK**	**"**	**513,540**	**832**	**76**	**241**
*SM5JBM	"	430,947	774	69	228
*SM4SX	"	423,232	744	70	202
*SM2KAL	"	326,268	671	81	243
*SM7BHM	"	319,325	774	58	207
*SM5CIL	"	241,120	382	54	220
			(Opr. SM7CIL)		
*SK3LH	"	240,538	1081	61	193
			(Opr. SM3WMV)		
*SM7BJW	"	164,901	471	50	159
*SM5VZY	"	62,700	436	40	110
*SM3WMU	"	59,800	314	36	94

*SM7BQX	"	45,387	248	38	85
*SM5COP	"	19,500	93	40	60
SMØOZH	**28**	**45,592**	**250**	**21**	**61**
*SM6JY	14	25,460	236	17	50
*SK2IV	"	17,766	280	12	35
			(Opr. SM2CDF)		
*SM3ARR	"	506	16	6	5
SM3DXC	**7**	**19,458**	**147**	**17**	**52**
*SM5AJV	3.5	8,580	147	9	43

SWITZERLAND

HB9KC	21	35,883	171	20	61
HB9FMD	**3.5**	**67,795**	**718**	**18**	**73**
***HB9ARF**	**A**	**910,459**	**1143**	**101**	**306**
*HB9CBR	"	290,924	560	68	189
*HB9QA	"	37,675	131	49	88
*HB9NL	"	32,224	149	39	67
***HB9HAW**	**7**	**65,720**	**330**	**20**	**86**
*HB9CPS	"	1,734	61	9	25

UKRAINE

EN1I	**A**	**2,343,785**	**2279**	**150**	**485**
			(Opr. US1ITU)		
UX7IA	"	**2,195,578**	**2302**	**128**	**410**
UX5UO	"	**2,089,798**	**2321**	**123**	**403**
UX1UA	"	1,535,990	1668	126	412
*UTØU	"	1,366,284	1803	121	371
UT5UB	"	1,125,894	1228	113	349
UR5UW	"	1,121,444	1343	112	379
UX3ZW	"	799,176	906	101	325
UT3UZ	"	722,533	1228	113	330
UT4EK	"	701,499	1047	98	299
UR5QN	"	694,260	996	108	327
UR7QM	"	625,800	1185	83	267
UR5E	"	486,048	855	78	254
			(Opr. UR5EDX)		
UT5HP	"	128,832	222	80	164
UR4SXU	"	108,768	449	67	166
UU2JA	"	104,880	256	61	167
UX1KR	"	79,373	314	41	78
US7VL	"	69,915	177	56	121
UU2JZ	"	67,344	163	68	115
UU2JQ	"	64,436	147	72	109
UT4ZO	"	37,490	108	60	103
UT8AQ	"	7,344	73	10	41
UT4UWC	"	5,755	52	15	29
			(Opr. US-U-Ø9)		
UR6QS	"	1,235	37	9	10
UR7VA	**28**	**343,441**	**992**	**33**	**130**
US6L	"	203,904	845	29	99
UT1IA	"	198,144	734	34	110
UT7LA	"	24,864	157	21	53
UR3QT	**21**	**267,057**	**1255**	**37**	**120**
UT8IM	**"**	**236,979**	**1000**	**36**	**95**
US1E	"	45,990	1196	35	111
			(Opr. UT7EZ)		
UX3HA	"	39,970	282	19	51
US5WE	**14**	**498,432**	**1541**	**37**	**140**
US9Q	**"**	307,965	1351	35	**112**
			(Opr. US9QA)		
UY5DX	"	269,988	1001	32	117
UY5ZZ	**7**	**464,023**	**1703**	**33**	**118**
US2IR	**"**	**313,852**	**1149**	**35**	**119**
US2YW	"	275,064	1509	33	113
UR3IOB	"	73,700	420	21	79
UT5UGQ	"	156	8	6	7
US2IZ	**3.5**	**63,519**	**534**	**18**	**75**
UU3JM	"	42,742	467	14	57
UR5FEL	"	35,700	594	19	66
US5ELM	"	27,010	250	13	60
UYØZG	1.8	7,182	88	7	47
***UY8IF**	**A**	**916,180**	**1891**	**98**	**282**
***UT2UZ**	**"**	**722,624**	**812**	**105**	**343**
***UY1HY**	**"**	**644,360**	**829**	**119**	**326**
*UT4XU	"	585,095	868	89	276
*US3IZ	"	550,376	893	86	270
*UY2UZ	"	545,650	1025	85	265
*UTØH	"	485,488	992	81	223
*UX5EF	"	428,687	793	78	251
*UY3QW	"	218,152	553	67	201
*UR5WII	"	206,736	772	44	129
*UT2IW	"	188,616	393	71	161
*UR4MRT	"	169,128	394	56	205
*UT8IT	"	167,616	459	56	160
*UR3UJ	"	167,433	477	52	149
*UT2IO	"	164,728	446	57	179
*UR5BCJ	"	130,200	318	57	118
*UT4XX	"	81,792	287	44	84
*UY2IZ	"	73,248	214	53	115
*UR5EIT	"	55,444	190	40	100
*UT4UM	"	34,385	212	26	89
*UT5HA	"	32,976	112	54	90
*UR5ZRK	"	12,628	120	21	61
*UY5YA	"	5,750	57	16	30
***UX8IX**	**28**	**162,900**	**537**	**34**	**116**
*UT4PZ	"	67,303	271	27	80
*UR8RF	"	61,568	264	27	77
*UT5ECZ	"	2,850	52	9	21
***UR4QOS**	**21**	**68,600**	**340**	**27**	**73**
*UR5EPV	"	51,708	243	33	60
*UR5TAU	"	43,470	221	26	64
*UY5WA	"	36,375	272	19	56
*UR3PFM	"	3,348	264	27	84
***UT7EG**	**14**	**45,479**	**383**	**20**	**69**
*UT3IB	"	5,346	83	13	41
***UUØJM**	**3.5**	**123,250**	**978**	**26**	**99**
***UT7CC**	**'**	**107,507**	**814**	**21**	**79**
*UT3QW	"	78,204	613	20	78
*UT1FA	"	76,500	576	18	72
*US2WU	"	47,712	216	23	89
*UY2ZZ	"	4,182	94	7	34
***UXØHA**	**1.8**	**25,264**	**367**	**12**	**53**
*UU4JMG	"	7,030	581	18	77

WALES

GW3JXN	A	974,850	1335	110	292
GW3KDB	"	973,488	1294	**99**	**309**
GW8K	"	885,236	1670	78	263
GW3YDX	**28**	**726,193**	**1966**	**35**	**134**
GW3WVG	**"**	**511,932**	**1600**	**35**	**113**
***GW3NJW**	**A**	**370,645**	**663**	**74**	**219**
*GW3SYL	"	176,730	398	62	153
*GW3WWN	"	63,675	389	23	52
***GW4MVA**	**14**	**53,238**	**226**	**29**	**85**

YUGOSLAVIA

4N9BW	A	5,016,810	4099	155	490
			(Opr. YU7BW)		
YT1AD	"	876,256	1504	106	288
			(Opr. YU1DX)		
YU7AM	"	360,000	781	65	185
YU1OL	**28**	**352,132**	**1013**	**34**	**117**
YT1MP	"	113,148	395	28	95
4O6A	**21**	**589,842**	**2321**	**37**	**125**
			(Opr. YT6A)		
YU1KX	"	529,872	1630	37	129
YT7A	**14**	**749,394**	**2245**	**38**	**148**
YZ9A	"	646,209	2064	37	134
			(Opr. YU1NW)		
YU1ZZ	"	606,884	1988	38	135
YU7NU	**7**	**551,925**	**1774**	**35**	**130**
YT1BB	"	374,884	1707	35	114
YU1KR	**3.5**	**168,010**	**1215**	**22**	**84**
YZ6A	**1.8**	78,866	826	18	76
***YU7CB**	**A**	**2,025,342**	**1816**	**132**	**447**
*4N7CA	"	403,112	750	88	240
*YU7KM	"	211,404	515	63	174
*YU7FY	"	105,704	266	72	109
*YU7LS	"	90,396	282	54	108
***YU1HA**	**28**	**129,536**	**435**	**28**	**100**
*YU7SF	"	53,486	234	24	70
*YU1QW	"	46,330	218	27	55
***4N1FG**	**21**	**76,612**	**360**	**30**	**77**
*YU7YZ	"	63,155	343	23	62
***YZ7ED**	**7**	**162,265**	**746**	**29**	**86**
*YZ1V	"	91,887	684	23	86
			(Opr. YU1AAV)		
*YU1FG	"	74,205	446	21	76
*4N7A	"	51,216	427	19	78
			(Opr. YU7AJH)		
***YU1CC**	**3.5**	**86,102**	**678**	**19**	**79**
***YU1RA**	**1.8**	**28,535**	**470**	**8**	**57**

MARITIME MOBILE

*KC7JEF/MM	A	983,467	1191	71	218

OCEANIA

AMERICAN SAMOA

KH8 /N5OLS	A	2,889,842	2412	152	281

AUSTRALIA

VK4XY	**28**	**521,577**	**1626**	**33**	**86**
VK4EMM	**14**	**153,408**	**550**	**28**	**74**
VK6VZ	**7**	**451,584**	**1435**	**32**	**96**
VK3IO	1.8	860	34	9	11
***VK2AYD**	**A**	**1,386,240**	**1651**	**105**	**199**
***VK6AJ**	**28**	**23,616**	**102**	**22**	**60**
*VK4IV	21	19,110	100	25	45
*VK4XW	"	2,592	28	13	23
***VK2APK**	**14**	**442,566**	**1243**	**33**	**105**
*VK4TT	"	70,110	290	24	58
*VK2EBP	"	41,514	154	28	74

BRUNEI

V8A	**7**	**952,416**	**2339**	**36**	**108**
			(Opr. JO1RUR)		

EASTERN KIRIBATI

T32IW	**A**	**212,940**	**695**	**59**	**71**

EAST MALAYSIA

9M6NA	**A**	**5,979,138**	**3737**	**171**	**390**
			(Opr. JE1JKL)		
9M6AAC	"	**4,844,320**	**3537**	**150**	**394**
			(Opr. DK3GI)		
9M8YY	**21**	**701,848**	**1609**	**36**	**115**
			(Opr. JR3WXA)		

GUAM

KH2/K4SXT	**1.8**	**39,678**	**278**	**21**	**30**

HAWAII

NH7A	**A**	**2,648,535**	**3077**	**124**	**193**
KH6/AI6V	**21**	**498,512**	**1608**	**33**	**79**
KH6CC	**1.8**	**47,545**	**429**	**18**	**19**

INDONESIA

YCØLOW	1.8	144	8	5	7
***YE3C**	**A**	**858,261**	**1467**	**76**	**143**
*YB5QZ	"	482,118	918	93	180
*YB4JIM	"	95,200	273	52	108
*YB1KOR	"	36,414	163	54	99
***YB9BON**	**28**	**52,756**	**210**	**30**	**79**
***YB2UU**	**21**	**186,258**	**806**	**30**	**81**

NEW CALEDONIA

TX8UFT	**A**	**920,535**	**1532**	**86**	**145**
***TX8FU**	**14**	**131,313**	**424**	**30**	**81**
			(Opr. FK8FU)		

NEW ZEALAND

ZL6QH	**A**	**2,555,024**	**2558**	**120**	**248**
			(Opr. ZL1AZE)		
*ZL1ANJ	A	17,920	129	34	36

NORTHERN MARIANAS

***NHØE**	**A**	**388,104**	**992**	**63**	**94**
***WHØV**	**28**	**349,561**	**1303**	**32**	**69**

PHILIPPINES

DU3NXE	**A**	**541,371**	**1145**	**76**	**105**
***DU1 /DL5ZAH**	**A**	**889,680**	**1261**	**94**	**170**
*DU1ODX	"	621,225	1093	81	144
***DU3RCM**	**14**	**221,936**	**866**	**29**	**68**

TONGA

***A35RK**	A	388,040	661	85	133

SOUTH AMERICA

ANTARCTICA

EM1LV	A	479,320	793	**81**	**149**

ARGENTINA

LU /ØHØWW	**A**	**614,262**	**988**	**73**	**154**
LW1DX	"	389,008	1103	51	113
LU7DW	"	43,368	199	48	56
LU5GPL	"	33,784	127	42	61
LT1F	**28**	**1,824,312**	**3886**	**35**	**133**
			(Opr. LU5CW)		
LU4FPZ	**"**	**789,888**	**2593**	**32**	**104**
LU5FA	**21**	**350,578**	**1480**	**35**	**83**
LU1FAM	"	124,047	563	31	68
***L36E**	**A**	**1,279,854**	**1288**	**107**	**239**
*LU1EWL	"	470,877	788	77	132
*LU3DSI	"	7,488	53	25	27
***LU5WW**	**28**	**689,568**	**1908**	**28**	**104**
*LW7DX	"	200,556	1004	23	58
*LU1AEE	"	186,750	815	24	66
*LW9DKB	"	181,280	888	22	66
*LU1XSI	"	56,925	326	14	55
*LW3HAQ/D	"	22,401	236	18	39
*LU4FAK	"	4,495	53	14	17
***LU5FF**	**21**	**424,799**	**1188**	**36**	**113**
*L5ØV	"	208,936	947	29	62
*LU7AWP	"	199,210	775	31	79
*LU3EAQ	"	5,664	47	20	28
*LW2EU	7	18,720	121	22	50

ARUBA

P4ØE	**A**	**14,372,964**	**6853**	**176**	**553**
			(Opr. CT1BOH)		
P4ØW	**"**	**12,108,798**	**6279**	**159**	**543**
			(Opr. W2GD)		

BOLIVIA

CP6AA	**A**	**415,480**	**1029**	**60**	**110**

BRAZIL

PY2GG	A	40,002	211	34	79
PX2A	"	9,243	68	35	44
			(Opr. PY2KP)		
PY2KQ	"	3,008	46	19	28
PY2NFE	"	2,135	51	25	36
ZW5B	**28**	**1,991,895**	**3810**	**37**	**148**
			(Opr. K5ZD)		
ZY2DX	**"**	**838,532**	**2005**	**36**	**128**
			(Opr. PY2QE)		
PP1CZ	"	62,050	310	20	53
ZV5A	**21**	**833,671**	**2299**	**35**	**116**
			(Opr. PY1KN)		
***PU1KDR**	**A**	**1,013,504**	**1486**	**79**	**177**
***PY2NY**	**"**	**723,841**	**1003**	**85**	**186**
*PY1KS	"	677,625	792	119	256
*PY5BLG	"	528,528	873	67	141
*PY2XE	"	349,272	663	57	139
*ZW2Z	"	295,856	619	54	122
			(Opr. PY2ZI)		
*PP7JR	"	129,870	339	55	130
*PY2MNL	"	114,342	252	60	117
*PP7CI	"	101,150	222	56	114
*ZW2F	"	58,322	215	43	78
			(Opr. PY2ORF)		
*PY4MBJ	"	51,062	180	44	77
*PP7CW	"	44,330	148	41	69
*PY2OJD	"	11,718	97	40	53
*PY2NZR	"	10,165	188	20	58
*ZZ4W	"	7,353	52	23	35
*PY2OZF	"	4,879	45	22	19
*PR2M	28	589	19	10	9
*PY2EL	21	19,136	232	22	30
*PY3FBI	"	11,072	224	15	17
*PR2W	"	9,381	113	19	34
			(Opr. PT2AW)		
*PY4ZF	"	6,191	55	19	22
*PY2WDM	"	1,540	23	14	14
***PR7FB**	**14**	**116,676**	**323**	**34**	**92**
*PS7ZZ	"	17,784	103	24	52
*PY3JRG	"	16,821	199	23	66
*PY1BLL	"	9,063	60	18	29
*PY2EYE	"	1,917	25	12	15
***PU2WMW7**		**28,046**	**133**	**21**	**53**
*PY2IQ	"	11,211	104	9	28
*ZZ3Z	"	304	31	8	8

CHILE

XR3Z	**A**	**347,956**	**776**	**65**	**107**
			(Opr. CE3/NE4F)		
CE3AA	**A**	**735,715**	**1090**	**89**	**180**
*CE6TBN	"	784	107	27	29

COLOMBIA

HK6KKK	**A**	396,952	917	66	170
HK5QGX	"	8,820	72	21	21
***HJ1RRL**	**A**	**536,544**	**1535**	**50**	**88**
*HJ3PXA	"	5,025	47	31	44

ECUADOR

HC2SL	**28**	**837,774**	**2404**	**29**	**97**

GALAPAGOS ISLANDS

HC8N	**A**	**12,971,803**	**6661**	**171**	**518**
			(Opr. N5KO)		

SURINAME

PZ5JR	**A**	**6,731,410**	**4644**	**141**	**377**
			(Opr. OHØXX)		

TRINIDAD & TOBAGO

9Y4VU	**21**	**1,222,485**	**2774**	**36**	**119**

URUGUAY

CX5X	**21**	**935,375**	**2005**	**39**	**136**
			(Opr. CX6VM)		
CX7BY	"	503,792	1310	36	112
***CX5AO**	**28**	**887,556**	**2206**	**33**	**115**
***CX9AU**	**14**	**387,985**	**1271**	**34**	**93**

VENEZUELA

*YV7QP	28	100	167	18	41
***YY4GLD**	**21**	**227,256**	**1077**	**28**	**74**

QRP

HA2SX	**A**	**1,002,822**	**1253**	**98**	**323**
N6MU	**"**	**857,395**	**798**	**119**	**266**
LY2FE	**"**	**795,874**	**1243**	**86**	**297**
N1TM	**"**	**701,679**	**722**	**87**	**276**
SM3CCT	**"**	**666,050**	**1075**	**78**	**268**
K1RC	**"**	**659,880**	**692**	**96**	**280**
W3ZZ	**"**	**628,304**	**683**	**100**	**267**
N7IR	**"**	**569,856**	**626**	**108**	**228**
NØKE/KH6	**"**	**532,575**	**754**	**105**	**158**
JR4DAH	**"**	**528,363**	**694**	**102**	**195**
DL3KVR	**"**	**525,358**	**839**	**84**	**263**
OE2S	**"**	**507,000**	**933**	**76**	**249**
			(Opr. OE2VEL)		
KV8S	**"**	**503,750**	**559**	**84**	**241**
YU1LM	**"**	**500,148**	**1084**	**68**	**229**
BMØQRP	**"**	**484,330**	**1260**	**83**	**155**
			(Opr. BV3FG)		
IØZUT	**"**	**452,403**	**742**	**73**	**228**
GØOGN	**"**	**446,879**	**846**	**63**	**208**
N9CIQ	**"**	**383,052**	**507**	**74**	**200**
HA7YS	"	340,901	715	71	209
F5NZY	**"**	**318,024**	**796**	**61**	**191**
UR9MM	**"**	**304,370**	**650**	**75**	**237**
VE7CFD	**"**	**298,908**	**882**	**68**	**103**
			(Opr. VE7CQK)		
I1BAY	"	296,460	829	70	235
WA3NKO	"	292,950	429	69	201
OK2PP	**"**	**271,776**	**807**	**69**	**229**
EA7AAW	**"**	**241,864**	**603**	**52**	**144**
PAØADT	**"**	**236,470**	**568**	**59**	**155**
UAØKCL/3	**"**	**227,745**	**400**	**63**	**178**
7K4QOK	**"**	**212,135**	**415**	**71**	**132**
			(Opr. JR2BNF)		
S59D	**"**	**204,732**	**656**	**70**	**212**
UA3AD	"	204,216	460	71	183
AA1CA	"	203,058	357	73	188
G4FDC	"	172,776	416	52	132
K3WWP	"	160,800	293	51	150
UA9SG	**"**	**156,620**	**340**	**62**	**143**
DK4CU	**'**	**143,000**	**450**	**49**	**151**
SM5DQ	"	139,968	357	56	187
UA4YJ	"	133,536	361	54	175
9A2EY	**"**	**124,758**	**505**	**38**	**136**
YO4AAC	**"**	**118,980**	**392**	**41**	**139**
KRØI	**"**	**117,392**	**246**	**59**	**117**
UT5UJY	"	115,813	469	44	135
DJ3GE	"	109,218	340	46	121
DH2UL	"	102,243	322	46	127
ON7CC	**"**	**98,638**	**358**	**39**	**110**
DL4XU	"	82,360	321	42	100
N5TW	**"**	**82,264**	**316**	**75**	**151**
RW3VM	"	80,017	268	42	119
DL1LAW	"	77,910	300	39	108
DK6AJ	"	74,698	350	54	115
OH6FW	**'**	**62,650**	**295**	**42**	**133**
JA5CDL	**"**	**60,900**	**194**	**60**	**80**
US8UA	"	57,280	214	39	121
OK1AIJ	"	57,112	319	28	90
KH6 /WB6FZH	"	57,057	210	47	44
NØUR	"	52,538	169	23	86
HB9XY	**'**	**52,514**	**271**	**30**	**91**
SP5FKW	**"**	**50,076**	**216**	**37**	**79**
K4GEL	**"**	**42,291**	**138**	**33**	**78**
LU5DYV	**"**	**42,192**	**240**	**32**	**40**
NQ7X	"	39,000	162	50	75
NM1K	"	35,754	114	38	80
US9PA	"	33,062	184	33	89
VE2ABO	"	29,988	135	35	63
KL7TS	**"**	**25,599**	**145**	**28**	**41**
NØQT	"	24,860	104	49	61
GØKZO	"	24,516	137	34	74
UT5IZ	"	23,349	216	36	93
AF9J	"	22,944	101	37	59
DJ5QK	"	22,791	213	26	81
AA3GM	"	21,525	130	45	60
K5OI	"	19,998	128	43	56
SP4CQU	"	18,357	100	33	54
OK1DMP	"	17,538	95	29	50
CT1ETT	**"**	**16,745**	**137**	**23**	**62**
DL1HTX	"	13,680	144	25	70
K6MI	"	8,330	59	33	37
JN2FSE	"	7,434	59	25	38
PAØRBO	"	5,626	58	15	43
DL2PY	"	5,610	60	15	29
OM3CUG	"	5,400	40	24	30
DL2TM	"	4,446	38	19	20
WO7T	"	3,024	29	15	21
EC5ALP	"	2,700	94	12	38
F5IYJ	"	255	21	7	8
KK7QX	"	100	48	21	23
GØTDX	**28**	**104,300**	**458**	**25**	**75**
W9JUV	"	81,060	269	25	80
JA2XI	"	73,332	281	29	68
HAØGK	"	56,880	274	**25**	54
2EØAOK	**"**	52,890	**284**	**23**	**63**
EA2CAR	**"**	**44,919**	**238**	**28**	**65**
JG2LGM	"	42,739	208	27	52
PY2TNT	**"**	**32,548**	**230**	**17**	**30**
K7MM	**"**	**27,216**	**146**	**23**	**49**
WT3W	**"**	**20,736**	**107**	**21**	**51**
W6ZH	**"**	**18,894**	**122**	**23**	**44**
UN6G	"	8,064	91	7	29
JL3SBE	"	6,380	58	20	24
HA8DL	"	5,110	65	13	22
JR3NDZ/1	"	3,780	48	14	16
LU1FNH	**21**	**147,204**	**672**	**25**	**69**
LU6HI	**"**	**144,552**	**491**	**33**	**81**
OH7NVU	**"**	**121,176**	**529**	**27**	**81**
US4EX	**"**	**106,424**	**495**	**28**	**78**
9A3GU	**"**	**74,970**	**336**	**25**	**77**
W4DEC	**"**	**63,750**	**251**	**23**	**79**
ES1CR	**"**	**55,648**	**299**	**25**	**69**
DL8TWA	**"**	**54,684**	**300**	**24**	**60**
			(Opr. K3TW)		
JR1NKN/2	**"**	**44,311**	**249**	**23**	**50**
OH2YL	"	31,936	213	17	47
K8UCL	**"**	**28,864**	**127**	**23**	**59**
SP6JOE	**"**	**21,528**	**172**	**18**	**51**
LY2TX	**"**	**20,769**	**189**	**20**	**49**
SP5MNJ/7	"	13,802	87	18	49
SP3FPF	"	11,682	77	19	47
I4KRF	**"**	**9,417**	**131**	**11**	**32**
JM1XTB	"	5,256	57	16	20
JJ4IYG	"	5,022	60	15	16
YO4ATW	"	3,128	50	9	14
2UØARE	"	2,492	74	8	20
JH3HYT	"	1,914	25	16	17
JH1HTK	"	1,060	25	10	10
HB9LDO	"	924	22	6	15
SM4KL	"	3	1	1	1
ES1CW	**14**	**123,340**	**458**	**34**	**106**
DF4ZL	**"**	**98,520**	**436**	**31**	**89**
VE3XL	**"**	**95,056**	**397**	**24**	**80**
JA2HUN	**'**	**43,990**	**205**	**23**	**60**
GØVQR/P	**"**	**13,301**	**164**	**12**	**35**
DL4OBJ	"	12,243	147	13	40
NP4FW	**"**	**10,906**	**120**	**11**	**30**
YO4CSL	"	5,150	89	10	40
RV9CLF	"	2,288	62	7	19
DL1DQY	"	752	17	8	8
SP2HPD	**7**	**46,458**	**436**	**17**	**70**
KH6 /W8QZA	**"**	**39,616**	**216**	**27**	**37**
JA6GCE	**"**	**36,360**	**186**	**24**	**48**
DL6MHW	**"**	**21,775**	**205**	**13**	**52**
RW3AX	**"**	**21,681**	**201**	**16**	**57**
NC6M	**"**	**17,537**	**104**	**24**	**47**
			(Opr. W6REC)		

RV6AF	"	17,490	153	15	51
G3VPW	**"**	**15,300**	**167**	**10**	**41**
UR4UU	**"**	**10,431**	**128**	**13**	**44**
SP9XCJ	"	8,614	120	11	32
ND8MS	"	2,530	50	13	33
			(Opr. NH7C)		
HA8LUH	**3.5**	**68,076**	**589**	**17**	**76**
UX3M	**"**	**37,206**	**356**	**13**	**65**
			(Opr. UR3MP)		
SP4GFG	**"**	**32,760**	**396**	**13**	**57**
RU3WW	**"**	**27,648**	**316**	**14**	**58**
UA3XAC	**"**	**16,929**	**308**	**8**	**49**
OM3TKR	**"**	**13,320**	**286**	**5**	**40**
OK2KRT	**"**	**8,160**	**193**	**5**	**35**
UT5UQV	"	3,995	93	8	39
JA1AA	"	1,104	31	11	13
HA9RA	"	266	21	3	13
OM2FY	**1.8**	**21,600**	**376**	**9**	**51**
DJ3RA	**"**	**15,904**	**262**	**8**	**48**
RA3FD	**"**	**13,110**	**201**	**9**	**48**
OMØTT	**"**	**6,837**	**161**	**8**	**35**

ASSISTED
NORTH AMERICA
UNITED STATES

KI1G	**A**	**6,477,468**	**3185**	**162**	**570**
K1TI	**"**	**4,649,790**	**2455**	**157**	**553**
K5MA/1	**"**	**3,961,105**	**2488**	**136**	**441**
K1YR	"	3,013,114	1967	139	439
W1NG	"	3,000,448	1576	160	544
W1GD	"	2,974,140	1696	140	480
KZ1M	"	2,145,798	1713	110	364
KA1CLX	"	1,637,185	1192	121	394
KS1L	"	1,569,893	986	140	473
N6RFM/1	"	1,416,584	1025	118	396
N1DG	"	1,330,369	929	133	430
W1BIH	"	1,317,593	894	140	449
K1VV	"	1,307,922	1142	97	302
W1CSM	"	1,289,834	1003	118	376
K1AJ	"	1,188,768	1069	96	331
W1HR	"	1,136,678	959	100	367
W1AX	"	1,119,560	800	125	395
W1RZF	"	1,100,268	1060	113	355
AA1V	"	1,094,608	743	138	454
W1RH	"	968,275	962	93	292
W1JR	"	918,592	707	133	363
W1CU	"	901,310	700	115	352
K1DC	"	762,439	683	108	323
K1NU	"	742,144	648	101	345
K1RV	"	664,306	693	95	291
K1MY	"	561,450	559	118	357
W1QK	"	478,160	537	95	249
NQ1K	"	472,056	453	106	302
N1KWF	"	463,570	584	81	221
K1AE	"	455,126	468	112	301
K1TH	"	440,412	588	78	243
AK1N	"	431,340	474	91	225
KT1M	"	408,807	548	78	231
K1JN	"	401,330	485	89	246
N1MD	"	330,435	382	76	239
NZ1Q	"	305,316	439	96	300
K1EO	"	246,561	513	99	314
K1ZO	"	223,020	364	76	194
N1SP	"	218,155	306	63	208
W1TO	"	197,446	286	76	193
K1EP	"	195,104	316	71	197
K1TR	"	169,650	273	66	159
NM1W	"	114,030	247	58	152
N1TB	"	82,386	384	55	144
WF1B	"	81,356	195	53	119
K1KU	"	75,240	204	53	145
KE1KD	"	70,680	168	64	122
N1KO	"	66,528	220	46	108
K1ST	"	60,021	147	59	112
N1AO	"	51,510	179	60	142
N1NQD	"	42,704	110	48	109
K1BW	"	39,468	93	59	84
WV1M	"	26,780	96	44	86
K1IR	"	26,144	128	20	56
W1AY	"	11,016	120	30	78
K2NG	**A**	**5,951,043**	**2659**	**183**	**668**
K2TW	**"**	**5,685,240**	**2774**	**156**	**574**
W2UP	**"**	**4,695,670**	**2523**	**152**	**534**
K5KG/2	**"**	**3,780,392**	**1927**	**155**	**567**
K2SX	"	3,576,780	2192	163	478
K2XA	"	3,473,550	1919	152	523
K2NJ	"	3,007,342	1739	139	472
K2RD	"	2,995,806	1753	142	485
AB2E	"	2,775,864	1625	145	506
K2ONP	"	2,643,511	1717	131	428
N2TX	"	2,035,135	1353	156	529
N2ZX	"	1,962,912	1388	122	386
KF2O	"	1,794,520	997	158	522
N2TK	"	1,106,830	622	161	572
N2CQ	"	901,476	713	119	372
K2XF	"	793,104	763	103	300
K2PS	"	776,620	684	100	312
KD2TT	"	727,320	671	97	343
K2OWE	"	711,619	750	105	334
N2JT	"	621,070	627	85	274
N2FF	"	477,576	463	97	305
WK2H	"	464,156	712	72	202
K2EP	"	443,118	499	80	258
N2VW	"	277,200	342	103	247
NA2M	"	217,160	308	85	220
K2BX	"	191,250	361	61	164
W2LK	"	139,564	361	39	109
AA2WN	"	116,580	276	84	206
WB2WPM	"	112,404	200	58	146
KA2AEV	"	59,410	174	33	97
N2KJM	"	15,168	74	26	53
K3WW	**A**	**7,963,764**	**3764**	**168**	**601**
N3AD	**"**	**4,964,695**	**2549**	**156**	**563**
K3NZ	**"**	**3,586,593**	**1775**	**166**	**595**
N3RR	"	2,373,065	1356	158	497
NN3Q	"	2,369,928	1524	132	441
K3KO	"	2,022,806	1373	134	413
K3MD	"	1,941,710	1446	137	425
K3SV	"	1,914,075	1277	113	430
W3OV	"	1,774,125	1382	116	359
K3ND	"	1,743,328	1024	153	475
N3DL	"	1,452,318	862	148	539
K3KY	"	1,451,790	1031	126	387
K3QO	"	1,435,700	1060	124	366
K3PP	"	1,364,769	897	128	453
K3SA	"	1,203,840	916	112	368
K3JGJ	"	1,193,696	900	129	382
W3HVQ	"	1,167,424	1045	120	344
W3GK	"	1,108,080	857	106	350
K3CP	"	964,910	755	107	363
N3ZA	"	940,056	697	138	414
W3AP	"	750,321	853	124	305
K3DI	"	715,002	612	111	332
WT3P	"	647,622	595	90	312
K3AR	"	593,145	518	103	338
W3KV	"	583,275	551	104	281
W3SB	"	509,220	520	86	283
N3MLV	"	499,626	491	109	260
KB3X	"	495,430	495	107	263
KE3VN	"	243,991	578	108	343
WF3T	"	237,533	487	47	132
KU3X	"	213,044	339	64	177
K3NL	"	95,216	196	47	129
KQ3F	"	72,320	168	44	116
N3QQ	"	58,437	160	47	104
W3TMZ	**7**	**47,120**	**145**	**29**	**95**
K3JJG	1.8	3,626	56	11	26
N4XR	**A**	**2,794,342**	**1776**	**135**	**431**
N4VZ	**"**	**1,957,248**	**1218**	**145**	**431**
N4ZJ	"	1,727,354	1194	123	419
W8ZF/4	"	1,406,444	973	143	416
N4DW	"	1,134,980	887	114	370
K4PB	"	921,456	713	124	350
NT4D	"	703,545	627	126	319
AA4R	"	684,740	546	130	381
K4MA	"	534,660	563	107	273
N1CC/4	"	319,335	396	83	222
N4GN	"	274,176	329	91	215
W4NZC	"	240,198	323	77	189
K4NR	"	144,926	244	70	163
W4WNT	"	34,071	103	45	78
W4SI	"	24,900	104	28	72
KUØC/4	**21**	**344,129**	**1036**	**37**	**114**
W4DR	1.8	25,481	115	21	62
N5JR	A	1,928,838	1258	138	425
KR5V	**"**	**1,238,076**	**790**	**151**	**427**
WQ5W	"	142,923	286	58	155
K5HDU	"	127,050	284	64	146
NA4M/5	"	124,488	220	75	159
N3BB/5	"	85,020	160	78	117
K5AM	"	64,030	153	70	120
KB5U	"	24,054	96	44	70
N5KB	"	16,443	104	27	60
KD6WW	**A**	**2,797,112**	**1589**	**163**	**465**
K7BV/6	**"**	**2,350,803**	**1639**	**161**	**392**
K6RO	"	1,286,936	1039	133	336
K6CT	"	923,991	749	127	352
W6OAT	"	493,641	430	139	284
K6CU	"	190,152	302	100	178
AJ6V	"	79,937	184	71	98
NF6R	"	73,753	203	51	80
AK6L	"	39,843	152	66	105
K6JG	"	21,012	77	42	60
K6CTA	"	20,516	90	38	54
KA6BIM	**28**	**108,609**	**371**	**28**	**95**
N6ND	**21**	**400,320**	**1002**	**37**	**123**
N7CW	**A**	**1,318,050**	**988**	**154**	**368**
K9JF/7	**"**	**1,263,693**	**1041**	**142**	**329**
W7OM	"	933,644	959	132	272
K7ABV	"	792,688	690	124	288
K7GJ	"	591,822	629	114	252
K7WP	"	377,300	450	119	231
W7NN	"	375,287	442	101	212
K7BG	"	195,138	270	96	197
W7UB	"	94,956	282	65	99
W7CT	**21**	**169,056**	**427**	**33**	**111**
W8JGU	**A**	**1,870,911**	**1266**	**131**	**382**
ND5S/8	**"**	**1,185,153**	**783**	**144**	**443**
NO8C	"	454,770	504	95	231
AA8TC	"	363,132	429	101	295
W8PT	"	179,775	330	77	178
K8PYD	"	132,440	230	80	140
AG8L	"	20,412	78	39	69
K8EI	"	14,288	80	29	47
AA8U	**21**	**414,951**	**1009**	**34**	**123**
WA8WV	3.5	11,505	75	14	45
N9UA	**A**	**1,525,898**	**1210**	**124**	**349**
NO9Z	**"**	**1,005,204**	**964**	**109**	**313**
WO9S	"	645,123	645	102	257
N9FH	"	593,325	602	100	305
N9XX	"	482,667	505	101	248
N9CK	"	381,744	520	75	189
W9RN	"	381,282	412	105	222
W9ILY	"	356,820	414	90	223
K9NI	"	283,751	406	76	223
KA9FOX	"	163,098	275	87	159
K9OSH	"	139,682	241	63	148
N9AU	**7**	**229,788**	**566**	**35**	**121**
WØTM	**A**	**1,714,895**	**1365**	**137**	**318**
WØWP	**"**	**1,369,197**	**1011**	**128**	**343**
NØAT	"	637,886	626	110	284
NSØB	"	290,136	372	102	212
KØIL	"	90,896	184	70	138
KZØC	"	32,656	112	59	98

CANADA

VE1RX	21	30,388	175	19	52
VA3DX	**7**	**201,856**	**561**	**34**	**118**
VE6LB	1.8	5,592	124	10	14

PUERTO RICO

WP3R	**A**	**5,495,235**	**4362**	**139**	**406**
			(Opr. DL2CC)		

U.S. VIRGIN ISLANDS

KP2AD	**A**	**3,562,181**	**3076**	**124**	**387**

ASIA
ASIATIC RUSSIA

RAØFF	**A**	**1,285,818**	**1293**	**146**	**300**

JAPAN

JH8SLS	**A**	**1,313,760**	**1221**	**141**	**279**
JA9XBW	**"**	**1,219,810**	**1035**	**140**	**306**
JE3HDD	**"**	**817,663**	**760**	**131**	**276**
JK2VOC	**"**	**461,760**	**716**	**116**	**204**
JH8MWW	"	376,970	554	91	162
JH7AJD/1	"	269,825	430	96	155
JA7SUR	"	269,618	458	92	134
JAØBMS/1	"	195,926	438	55	108
JJ6TYG	"	188,748	302	97	155
JAØBJY	"	156,022	320	71	110
JO1VRL	"	138,990	272	85	120
JR4QZH	"	90,131	200	67	126
JR3PZW/1	"	61,910	149	79	126
JH1FSF	**28**	**204,930**	**586**	**34**	**104**
JH6WHN	"	20,493	126	27	54
JQ1NGT	14	21,528	116	24	45
JA1KVT	**7**	**43,788**	**205**	**25**	**57**
JH1BBT	**3.5**	**27,448**	**148**	**25**	**48**

EUROPE
ALAND ISLANDS

OHØJJS	**21**	**716,520**	**2122**	**37**	**131**
			(Opr. OH6LI)		
OHØJJS	**3.5**	**173,850**	**1408**	**25**	**89**
			(Opr. OH4JLV)		

AUSTRIA

OE1TKW	A	24,047	117	49	90

CROATIA

9A3ZG	A	71,258	253	49	109

CZECH REPUBLIC

OK2FD	**A**	**2,681,000**	**1952**	**160**	**540**
OL6X	**"**	**1,547,635**	**1889**	**129**	**356**
			(Opr. OK1DIG)		
OK1FDY	"	1,411,254	1741	107	374
OK1DXW	"	397,769	727	78	233
OK1DWC	"	278,080	463	106	246
OK1DXI	"	53,360	218	38	77
OK1FPG	**28**	**35,442**	**155**	**26**	**73**

ENGLAND

M8Z	**A**	**3,295,396**	**3184**	**126**	**382**
			(Opr. G3VHB)		
G3RTU	"	48,506	244	38	120

EUROPEAN RUSSIA

RZ3BW	**A**	**4,642,688**	**3559**	**162**	**574**
RZ3AZ	**"**	**2,504,584**	**2324**	**148**	**526**
UA1QV	"	1,300,455	1616	118	395
UA1RG	"	100	93	31	53

FINLAND

OH2VZ	**A**	**292,000**	**549**	**75**	**217**
OH2LU	"	201,760	475	52	156
OH3BU	**3.5**	**65,637**	**547**	**18**	**81**
OH2BO	**1.8**	**23,205**	**162**	**20**	**71**

FRANCE

F6FII	**A**	**660,672**	**1075**	**78**	**255**

GERMANY

DF3CB	**A**	**3,640,994**	**2123**	**172**	**570**
DL7ON	**"**	**2,424,840**	**1981**	**162**	**498**
DL2ZAE	"	1,070,415	1645	93	312
DL6NCY	"	1,008,450	1062	117	369
DJ9IE	"	866,484	1064	104	348
DJ5BV	"	857,282	948	125	374
DJ9MH	"	835,758	1006	115	354
DL6KVA	"	294,100	319	120	220
DL1QW	"	189,996	434	72	212
DF6QV	"	161,728	384	61	163
DK9IP	"	151,536	267	76	170
DL4MFP	"	126,246	372	51	108
DF2UU	"	73,485	140	75	132
DF8MW	"	53,040	238	52	118
DL7BY	**28**	**142,245**	**447**	**33**	**112**
DL1LH	21	273,300	841	**35**	**115**
DJ6LV	**3.5**	**69,120**	**507**	**16**	**74**

HUNGARY

HAØHW	**A**	**600,122**	**883**	**98**	**284**

ITALY

IK5TSS	**A**	**1,133,902**	**1257**	**99**	**308**
IKØHBN	**"**	**938,598**	**922**	**125**	**378**
IK3SCB	"	140,418	392	54	120
IK3QAR	**28**	**250,952**	**757**	**35**	**117**
I4IKW	**7**	**722,736**	**2017**	**36**	**132**

LITHUANIA

LY2OX	**21**	**365,904**	**1183**	**34**	**120**

MACEDONIA

Z31JA	**A**	**2,271,840**	**2755**	**119**	**361**
Z31GX	**"**	**2,076,624**	**2435**	**119**	**394**

NETHERLANDS

PA3GDR	**28**	**85,300**	**439**	**26**	**74**

NORWAY

LA9GX	**14**	**761,200**	**2186**	**38**	**138**

POLAND

SP9LAS	**A**	**152,368**	**320**	**62**	**152**
SP3FAR	"	36,500	126	52	94

ROMANIA

YO2LDE	A	30,140	96	54	83

SLOVENIA

S56A	**A**	**1,977,570**	**1507**	**144**	**486**
S53R	**"**	**1,130,714**	**1007**	**141**	**413**
S58MU	"	223,944	483	68	190
S57IIO	**3.5**	**28,140**	**339**	**11**	**59**

SPAIN

EA7AGW	**A**	**1,011,172**	**1526**	**93**	**286**
EA3BHK	"	299,115	432	103	242
EA3AEK	14	31,525	259	25	72

SWEDEN

SM3EVR	**A**	**2,450,682**	**1732**	**164**	**538**
SM3PZG	21	537,795	1567	38	133

SWITZERLAND

HB9FAP	**A**	**806,174**	**1151**	**105**	**257**
HB5OK	"	342,768	1064	52	170

UKRAINE

UT5UGR	**A**	**3,235,392**	**3202**	**144**	**512**

YUGOSLAVIA

YZ7AA	**A**	**2,798,640**	**2700**	**142**	**443**
YTØA	**3.5**	**309,757**	**1493**	**32**	**105**
			(Opr. YT7AO)		

OCEANIA
AUSTRALIA

VK5GN	**A**	**1,090,795**	**1662**	**88**	**181**

GUAM

KH2/N2NL	**A**	**5,406,660**	**3991**	**154**	**336**
KH2D	**28**	**346,737**	**1022**	**36**	**87**

SOUTH AMERICA
ARGENTINA

LU1APG	28	51,060	389	23	51
LU7EAR	**21**	**94,636**	**338**	**32**	**86**

BRAZIL

ZZ2Z	**A**	**810,255**	**1203**	**81**	**204**
			(Opr. PY2YP)		
PS2E	"	220,206	575	48	99
			(Opr. PY2GX)		
PT2HO	"	29,256	109	46	60

CHILE

XR1X	**A**	**1,655,365**	**2226**	**106**	**249**

MULTI-OPERATOR
SINGLE TRANSMITTER
NORTH AMERICA
UNITED STATES

K1AR	**12,063,114**	**5074**	**181**	**701**
K1ZZ	**8,930,278**	**3724**	**180**	**674**
N1AU	1,396,564	1254	104	324
W1NR	1,053,290	742	143	431
KA1GJ	601,902	858	78	279
W1SRG	367,525	512	71	234
N2NU	**9,313,019**	**4053**	**182**	**675**
AA2FB	**5,079,408**	**2680**	**154**	**558**
K2XR	3,541,626	2264	157	525
W2RE	3,188,970	2146	144	491
W6XR/2	2,900,550	2073	156	454
K2TE	2,858,834	1628	146	507
W2CG	2,207,238	1350	148	483
N2LBR	1,314,402	998	109	365
N2SS	534,520	493	106	309
AE2F	308,698	434	92	311
W2SEX	58,212	137	47	107
N3RS	**9,681,880**	**4222**	**183**	**677**
K3TUP	**5,143,752**	**2828**	**155**	**563**
K3PH	3,007,092	1777	145	482
N3OC	2,872,653	1795	141	468
NE3F	1,549,104	1510	131	416
AA3JU	1,396,500	1289	105	395
NY3M	453,963	476	98	291
WR3L	279,708	685	34	122
N4RV	**3,374,752**	**2014**	**147**	**500**
W4PRO	1,371,573	1035	125	406
KQ4QM	818,448	683	119	353
WXØB/5	**5,781,600**	**2978**	**179**	**624**
K5MDX	2,118,711	1659	126	371
KG6QK	**2,026,525**	**1719**	**143**	**372**
K6ANP	1,207,650	986	144	341
W7VJ	**2,557,856**	**1865**	**152**	**380**
W7LT	1,224,671	1396	116	255
K7ON	486,528	588	108	228
K8AZ	9,259,470	4164	179	667
K8LX	6,701,035	3297	175	628
N8RA	4,061,808	2456	137	466
W8ZA	3,166,164	1857	156	510
W9JA	**5,123,928**	**2975**	**173**	**603**
WN9O	**1,347,570**	**996**	**153**	**477**
K9KJ	1,055,250	1005	121	329
NØNI	**5,590,850**	**2971**	**180**	**595**
KVØQ	**4,974,696**	**3039**	**171**	**477**
NØIJ	2,753,388	1926	140	421
KØZM	1,019,655	864	110	305
NØLM	262,440	467	78	192
KBØVVT	23,040	96	47	73

ALASKA

KL7Y	**8,758,280**	**5704**	**177**	**454**

CANADA

VE6SV	**3,293,024**	**3411**	**135**	**353**
VE6AO	497,466	1051	91	170

AFRICA
CAPE VERDE

D44BC	7,453,420	5098	131	395

CHAGOS ISLANDS

VQ9IO	792,448	1007	90	238

MADEIRA ISLANDS

CT3FN	3,069,374	2832	103	315

ASIA
ASIATIC TURKEY

TA4/DL5YM	2,158,650	2277	86	283

ASIATIC RUSSIA

RZ9AZA	6,681,460	3834	164	576
RK9CWW	6,575,859	3213	172	599
RK9AWN	4,528,160	2922	145	477
RK9KWI	1,951,190	1797	107	303
RK9CXM	1,519,890	1471	109	326

RY9C	1,177,813	3391	152	485
UA9OXC	267,716	705	77	177
RKØSXF	**1,087,016**	**1197**	**110**	**282**

INDIA

VU2WAP	**3,408,819**	**3478**	**130**	**359**

JAPAN

JH7PKU	**5,405,400**	**3239**	**170**	**460**
JR1ZTT	**4,343,125**	**2827**	**172**	**453**
JA2ZJW	**1,300,725**	**1414**	**120**	**249**
JI3BFC	**1,070,328**	**847**	**146**	**337**
JE2YHS	833,782	859	128	230
JF2SKV/2	447,460	765	92	168
JA1YQH	351,034	528	116	218
JJ1ZXE	59,478	216	55	83
JI2ZEY	6,528	70	30	34
JA9YBA	4,125	46	10	23

JORDAN

JY9QJ	**6,112,620**	**3967**	**139**	**441**

MALDIVE ISLANDS

8Q7DV	**7,391,820**	**4274**	**172**	**534**

THAILAND

HS5AC	**529,534**	**1304**	**82**	**189**
HSØAC	136,422	903	87	147

EUROPE

4U-VIENNA

4U1VIC	3,619,560	3823	147	473

BALEARIC ISLANDS

EA6IB	**9,522,048**	**6145**	**179**	**643**

BELARUS

EW1WN	**228,018**	**626**	**65**	**202**

BELGIUM

OT8P	**2,327,808**	**3106**	**116**	**332**
OT8K	506,482	1250	89	225

BULGARIA

LZ9A	**6,154,848**	**4841**	**167**	**607**
LZ5Z	**4,147,200**	**4363**	**175**	**625**
LZ6A	1,035,450	1509	96	294
LZ1AQ	929,788	1419	95	287

CROATIA

9A5D	**2,356,714**	**3377**	**117**	**337**

CZECH REPUBLIC

OK5W	**6,573,238**	**3898**	**187**	**667**
OL3A	**3,933,762**	**3444**	**163**	**524**
OL5Q	2,322,552	2878	105	321
OK2KOD	1,295,552	1393	116	380
OK2KDS	1,137,270	1284	107	347
OL2A	986,832	1698	85	251
OK1KCF	65,208	244	44	112
OK5SAZ	10,998	109	23	55

ENGLAND

G3TMA	**1,313,654**	**1799**	**122**	**344**

EUROPEAN RUSSIA

RU1A	**9,044,874**	**4579**	**203**	**751**
UD6M	**7,033,078**	**4841**	**184**	**690**
RM6A	**5,346,555**	**3966**	**183**	**644**
RK4WWA	2,246,412	2264	136	428
RZ1AWO	1,801,624	2273	112	360
RK3AWE	1,735,794	2414	108	330
RN3R	1,486,275	2553	118	357
RK6AYN	725,592	1490	100	292
RK3PXP	692,043	1151	75	238
RK4CWA	681,616	1314	90	287
RK3WWA	395,266	887	76	181
RK3YYM	205,800	815	67	213
RZ4SWM	42,276	323	35	121

FINLAND

OH7M	**6,776,410**	**3830**	**185**	**680**
OH5M	3,644,586	2848	164	535
OH6X	3,265,698	3047	160	559
OH6NIO	2,749,185	2311	137	460

FRANCE

TM2Y	**10,357,360**	**5480**	**188**	**678**
F5PED	2,561,382	2874	129	360
F6ENO	1,340,148	2511	91	257
F5KPG	407,238	780	80	219

GERMANY

DL2NBU	**7,925,400**	**4223**	**186**	**664**
DJ6QT	**4,847,840**	**3401**	**165**	**574**
DLØAO	2,449,645	2018	145	460
DK5MV	2,277,790	1964	143	458
DK1II	2,094,150	1998	132	443
DFØCI	1,433,498	1545	127	379
DKØTZ	1,343,314	1475	114	344
DKØZG	861,120	1803	97	263
DKØFFO	323,993	707	65	216
DLØBO/P	209,338	626	62	200
DFØXG	29,165	158	29	75

HUNGARY

HG1S	**8,601,558**	**5977**	**181**	**652**
HA1KRR	2,384,964	3000	117	316

ITALY

II3T	**4,982,934**	**3761**	**165**	**568**
IO2A	**4,293,828**	**3168**	**159**	**534**
IY2ARI	3,353,658	3157	133	428
IK1QBT	2,274,000	2458	121	379
IU2C	143,871	415	60	161
IO2L	70,720	340	33	52

LITHUANIA

LY3AV	**2,088,314**	**1960**	**137**	**441**

LUXEMBOURG

LX/DL4SDX	**3,193,992**	**3385**	**117**	**369**

NETHERLANDS

PI4COM	**5,094,642**	**4064**	**162**	**545**
PI4CC	3,622,227	3477	140	461
PA3HBB	1,425,110	1851	97	318

NORWAY

LA8W	**5,829,442**	**4289**	**166**	**552**
LA1K	5,848	69	25	43

POLAND

SQ6Z	**8,775,480**	**5142**	**188**	**652**
SNØKRT	780,896	1155	90	278
SP1KYB	81,286	443	23	74

SCOTLAND

GM8C	**1,243,452**	**1877**	**94**	**299**

SLOVAK REPUBLIC

OM8A	**7,360,440**	**4669**	**181**	**649**
OM3A	**6,005,610**	**4053**	**162**	**592**

SLOVENIA

S5ØG	**5,007,123**	**3418**	**161**	**572**
S52C	320,222	1425	35	143

SPAIN

EA5BY	**4,231,458**	**4074**	**138**	**464**
ED7UR	119,340	553	48	105

SWEDEN

SK6FM	**3,757,008**	**3244**	**164**	**532**
SK2AU	351,780	640	79	251

UKRAINE

UR3IWA	**4,607,850**	**3402**	**169**	**526**
UT7Z	**3,307,803**	**3566**	**140**	**431**
UT3IZZ	949,158	977	124	362
UR4LZA	294,415	665	60	205
UR4MWU	250,299	611	76	185
UR4LWY	86,526	245	62	145

YUGOSLAVIA

YU7AL	**1,978,812**	**2132**	**124**	**402**
YZ7A	765,600	1412	84	246
YZ7W	404,415	851	76	209
YT1Z	364,511	1011	67	234
YU1HFG	342,662	1339	37	109

OCEANIA

GUAM

AH2R	**8,902,349**	**5027**	**177**	**476**

LORD HOWE ISLAND

VK9LX	**6,154,205**	**4437**	**139**	**364**

MICRONESIA

V63X	**7,481,874**	**5020**	**161**	**373**

NEW ZEALAND

ZM2K	**6,239,018**	**4192**	**155**	**411**

SOUTH AMERICA

ARGENTINA

LU8XW	**515,619**	**1855**	**31**	**82**
LW6EFP	56,059	390	25	36

CHILE

CE3F	**4,170,642**	**3617**	**134**	**365**

MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA

UNITED STATES

KC1XX	**22,473,282**	**8936**	**199**	**763**
W3LPL	**21,271,495**	**8303**	**202**	**763**
K3LR	**20,897,569**	**8101**	**197**	**762**
K1KI	**17,808,700**	**7334**	**190**	**720**
K2LE/1	**13,276,122**	**6165**	**174**	**648**
K9NS	**11,526,040**	**5900**	**189**	**667**
K4VX/Ø	**11,066,276**	**5691**	**176**	**591**
K8CC	**10,861,630**	**5426**	**184**	**661**
W3PP	10,682,007	5401	174	639
WO1N	10,428,219	5622	175	626
K1RX	10,328,448	5217	175	657
W4MYA	**10,219,584**	**4904**	**179**	**637**
W8AV	9,884,992	4749	182	650
W6BA	**8,973,690**	**4397**	**184**	**582**
WØAIH/9	**8,454,555**	**4405**	**179**	**622**
W7RM	**7,273,814**	**4441**	**185**	**509**
W3EA	7,184,826	4087	169	617
K3II	7,118,514	3554	163	591
W3EEE	6,510,520	3275	162	578
W3MM	6,141,913	3184	172	627
KB1H	5,828,103	3380	157	566
K4OJ	4,991,336	3028	160	526
NJ4F	4,908,915	3319	161	544
W3FRC	4,454,984	2278	157	555
N2MM	**2,931,066**	**1859**	**160**	**506**
N2BIM	2,922,368	1775	141	491
NI5M	**2,726,784**	**1811**	**157**	**491**
KV1W	1,650,285	1515	117	338
KB1SO	1,456,621	2583	134	437

CANADA

VE3EJ	**24,413,191**	**10539**	**190**	**739**

COSTA RICA

TI1C	**32,783,400**	**15414**	**189**	**711**

GRENADA

J3A	**14,680,370**	**10579**	**162**	**508**

JAMAICA

6Y2A	**39,279,140**	**17609**	**192**	**740**

ST. LUCIA

J6DX	**25,596,764**	**14292**	**179**	**620**

AFRICA

CEUTA & MELILLA

EA9EA	**29,532,750**	**12888**	**178**	**667**

TOGO

5V7A	**34,658,186**	**14381**	**187**	**679**

ASIA

CYPRUS

P3A	**24,422,471**	**12908**	**175**	**622**

JAPAN

JA5BJC	**14,115,675**	**6788**	**190**	**615**
JA4EKO	**9,968,112**	**5329**	**186**	**558**
JA1YXP	**9,623,520**	**5267**	**189**	**549**
JA3YKC	**4,941,032**	**3685**	**162**	**406**
JA1YPA	813,588	1087	109	193

MONGOLIA

JT1A	**10,771,354**	**8112**	**164**	**474**

MYANMAR

XZ1N	**5,464,341**	**5486**	**159**	**438**

UNITED ARAB EMIRATES

A61AJ	**28,014,492**	**12692**	**195**	**718**

EUROPE

CZECH REPUBLIC

OL7W	**3,252,510**	**3099**	**132**	**507**

DENMARK

OZ5W	**4,406,832**	**3752**	**144**	**462**
OZ5WQ	**3,483,311**	**3880**	**144**	**467**

DODECANESE

J45T	**2,909,592**	**6051**	**118**	**386**

ESTONIA

ES5Q	**5,250,636**	**3932**	**165**	**567**

FINLAND

OH2U	**18,387,820**	**9381**	**205**	**802**
OH1AJ	2,623,500	2542	133	450

GERMANY

DFØHQ	**18,897,540**	**10289**	**204**	**751**
DLØCS	**13,194,288**	**7356**	**203**	**741**
DLØKF	5,967,034	4829	169	618

HUNGARY

HG6N	**11,044,143**	**8269**	**180**	**663**

KALININGRAD

RW2F	**16,862,016**	**9251**	**211**	**781**

LITHUANIA

LY5A	**8,998,444**	**7300**	**186**	**640**
LY7A	6,995,150	6117	175	600

SPAIN

EA4ML	**12,587,520**	**8747**	**175**	**593**

SWEDEN

SL3ZV	**14,495,360**	**8616**	**200**	**728**
SK6NP	657,460	1283	86	269
SM5HJZ	458,591	529	112	231

OCEANIA

HAWAII

KH7R	**20,908,825**	**10430**	**192**	**541**

SOUTH AMERICA

PARAGUAY

ZP9X	**1,227,094**	**1759**	**83**	**206**

CHECK LOGS

Our thanks to the following stations who sent in check logs.

9A2OU, DJ6TF, DK5OS, DL1ARD, DL1DWT, DL2KWW, DL2RSH, DL2RU, DL3JON, DL3NEO, DL3PB, DL5AMF, DL5CD, DL5DSA, DL5NA, DL6KWU, DL6MWG, DL7AQT, DL7VAF, DL8DZV, DM5AA, EA1BYA, EA1FAE, EA3GIP, EA3JB, EA4FW, EA5AKM, EA5GRC, EA5OI, EA5QX, EA7KN, EC4CZE, EW3EO, GØWAZ, G3HCT, GWØVSW, HA5AEX, JA4XHF, K3APM, K3SWZ, K8KFJ, KA1RJI, KE9EX, LA1FW, LA2EG, LA4BN, LA4IAA, LA4NE, LA4OGA, LA4YW, LA5QC, LA7SI, LA8CD, LA8CE, LA8HGA, LA8XM, LA9DFA, LA9OI, LA9PHA, LA9VGA, LA9WDA, LZ1KZ, LZ1NJ, LZ2FM, LZ2SX, NØXCF, NJ9Z, NQ9M, OH2JXA, OH3TY, OH5JTT, OH5PT, OK1ABE, OK1DP, OK1DSF, OK1DSU, OK1DUB, OK2BCJ, OM5RJ, OZ5PA, OZ7QB, PAØRBA, PA3CNI, PA3GKK, PY1ARS/4, PY1LVF, PY2DBU, PY3CEM, PY3CJI, PY7OJ, RAØZN, RA4LC, RN3AM, RU3DG, RU3DX, RV6HA, RW3XA, RW9SG, SMØBNK, SMØCSX, SMØNJO, SMØXG, SM3CBR, SM4HCM, SM5BEU, SM5BFJ, SM5BUH, SM5CZK, SM5OJH, SM5OL, SM7CZC, SP2GUC, SP2HMT, SP2SCX/9, SP3MEP, SP3VA, SP4GDC, SP5AHR, SP5CEQ, SP5FLB, SP5OXJ, SP6AUI, SP6BGZ, SP6CES, SP7BDS, SP7EJS, SP7FCX, SP7FGA, SP7HQ, SP7XK, SP8FHM, SP8HKT, SP8JMA, SP9MDY, SQ2AJI, SQ2AJS, SV5DZX, UAØBA, UAØFGN, UAØFZ, UA3AFH, UA3LEO, UA3PIU, UA4RC, UA9XK, UN7FW, UN7FZ, UN9FB, US1PM, UT2XX, UUØJC, UY5TE, VE3AWE, W4WS, W5AN, WAØOTV, WB4FNH, WB4MSG, YO2AIX, YO2AQB, YO3BWK, YO5ALI, YO6ADW, YO6FGN/P, YO8GF, YO8MI, YO8OH, YO8ROO, YO9BGV, YO9GVN, YO9IF.