

Results of the 2001 CQ WW DX CW Contest

BY BOB COX,* K3EST

Expanded CQ WW Contest Results on the Web

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

To view these additional and expanded elements of this year's CQ WW results, go to <<http://www.cq-amateur-radio.com/cqwwhome.html>>, then click on "Expanded results, 2001 CQ WW CW" and select the category you want to see. You may also get there by going to our home page at <<http://www.cq-amateur-radio.com>>, clicking on "Contest Rules & Info," then clicking on "CQ World Wide DX Contest" and selecting "Expanded results, 2001 CQ WW CW."

It was the best of times; it was the worst of times. This famous phrase took on a new meaning, as it aptly described the 2001 CQ WW DX CW Contest. Everyone was looking forward to the race and the setting of personal records. The sun had other plans. A large solar event occurred on late Friday night and made Saturday a challenge for those not operating near the equator. Randy, K5ZD/1, summed it up well: "Two contests in the same weekend! Poor conditions the first day were matched by great conditions the second day." 7S2E was in the midst of the aurora and has a similar comment: "Worst conditions in many years. I had a total blackout on Saturday . . . much better on Sunday."

The number of rare DX stations on the air for the contest made for many new countries for lots of contestants. The effect of the solar flare did not discourage many, and if you persisted there were lots of rewards.

After all the logs were counted, a total of 3400 logs were received: 3111 via e-mail, which equals 92% e-logs! Given the highly variable conditions throughout the world, this number is very FB! But enough QRM. Look in the results for your call and check out the various boxes to see how the top entrants performed.

All Band

Taking time out from his busy medical career in downtown Helsinki, Ville, OH2MM, drove to the airport through the countryside studded with pines and lakes of southern Finland. The daylight was much reduced at this time of the year and the Canary Islands were only a few hours direct flight away. What a difference four hours makes! Emerging into full sunlight at EA8EA, Ville took full advantage of the conditions and his considerable skill to take the world title in the high power category. Several time zones to the east, Hrane, YT1AD, had winning on his mind. Having

placed 3V8BB in the contest many times, he flew into Tunis and pushed 3V8BB to new heights by finishing second. Third place went to Robert, S53R, who took off time from his job in Kabul to fly down to Dubai, where he set a new Asian record by putting A61AJ in many a deserving competitor's log.

In Europe the changing conditions seemed to favor the eastern and western ends. Taking first place in Europe, and the first Polish #1 in a long time, was Chris, SP7GIQ. The battle for Europe #1 was tough. Second place went to Dave, G4BUO, who finished just behind SP7GIQ. Third place went to RK4FF. There were only two zone 14's in the Europe top ten.

In the U.S. the battle is always tough. After all the dust settled, Randy, K5ZD/1, was the clear winner. Is there ever a time when being in New England is not good? Second place went to John, K1AR, at the K1EA farm, and third went to Andy, N2NT/1, out at the Cape Cod QTH of K1ZM. In the far west state of Indiana, N9RV pushed W9RE into fourth place. Congratulations to W6EEN (N6RT), N6RO, and W7GG, who finished first, second, and third, respectively, in zone 3. N5RZ, K5YA, and K5YAA did a fine job, too.

As you can see, the top ten high power in the world group was dominated by African and Asian stations. A special mention must be made of K4BAL's effort at 8P9Z, and the return of K0DQ to the big leagues as P40Q.

The top scores from each continent were: North America 8P9Z, Africa EA8EA, Asia A61AJ, Europe SP7GIQ, South America P40Q, and Oceania 9M6NA. The top score from Japan was JH5FXP.

Low Power

"A perfect year for low power; disturbed conditions were music to my ears," said John, W2GD, who put P40W into orbit to set a new low power world record by breaking the 10 meg barrier for the first time. With beams pointing south for most of Saturday, John made QSOs while sun was up and down. Second place went to perennial low power champ Joe, AA3B, who put V26K on the map. Third place went to Paul, K9PG, who operated 8P2A.

In Europe Con, DF4SA, decided that southwest Europe was better than central Europe. He was right. Con set a new European low power record at CS7T. Second place in this tough category went to Slawa, ER1LW, operating at ER6A. Third place went to Gedis, LY3BA, operating at LY9A.

The conditions definitely had an effect on the U.S. scores. The clear winner was Jim, W1UK, whose country total made the difference. Second place went to Brooke, N2BA, while third went to Marvin, N5AW, way out in Texas. Bob, K6XV, had the #1 score from the U.S. far west.

The top scores from each continent were North America V26K, Africa FR5FD, Asia

Tack, JE1CKA, of KH0AM fame, put JR1AIB on in the WW CW in the Single Op, 15 meters category.



*c/o CQ magazine
e-mail: <questions@cqww.com>

ZC4DW, Europe CS7T, South America P40W, and Oceania ZK2MO. The top score from Japan was JH2NWP.

QRP

"Who said QRP has to be weak? We had so much fun, we are looking forward to another

QRP trip in 2002," said 6Y1A. "QRP is simply the best category to participate in," said DL6RDR. "QRP is really fun!" commented F5PBL. "I am very impressed at the skill of the operators and amazed at the way they could pick up my QRP signals," said GI0GDF.

Those were just a few of the comments

from the QRP gang. The #1 score in the world was LY5A operated by LY2PAJ. Second place went to Didier, FY5FY, while third went to TI5X operated by Phil, N0KE. Second in Europe was HG5Z operated by Gyorgy, HA1CW, while third place went to Bosko, YT7TY. In the U.S. the #1 scorer was N3BJ/4, Alan, located in Virginia.

TROPHY WINNERS AND DONORS

SINGLE OPERATOR

World All Band

EA8EA (Opr: Ville Hillesmaa, OH2MM)
Donor: W9IOP Memorial (Albert Kahn, K4FW)

World Low Power

P40W (Opr: John Crovelli, W2GD)
Donor: Slovenia Contest Club

World QRPP

LY5A (Opr: Jonas Paskauskas, LY2PAJ)
Donor: Gene Walsh, N2AA

World Assisted

CT9M (Opr: Frank Grossmann, DL2CC)
Donor: CTRI Contest Group

USA

Randy Thompson, K5ZD/1
Donor: Frankford Radio Club

USA Low Power

Jim Parise, W1UK

Donor: North Coast Contesters

USA - Zone 3

W6EEN (Opr: Doug Brandon, N6RT)
Donor: Central Arizona DX Association

USA - Zone 4

W9RE (Opr: Pat Barkey, N9RV)
Donor: The Society of Midwest Contesters

Canada

Yuri Onipko, VA3UZ

Donor: Jim Fisher, VE1JF

Carib./C.A.

8P9Z (Opr: John Laney, III, K4BAI)
Donor: Chuck Shinn, W7MAP

Europe

Krzysztof Sobon, SP7GIQ
Donor: Edward Bissell, W3AU

Europe - Low Power

CS7T (Opr: Cornelius Paul, DF4SA)
Donor: Scott Jones, N3RA & Tim Duffy, K3LR

Scandinavia

OG1MM (Opr: Pasi Alanko, OH1MM)
Donor: W3FYS Memorial (Chas Weir, Jr., W6UM)

Russia

Vlad Zaitsev, RK4FF

Donor: Roman Thomas, RZ3AA

Africa

3V8BB (Opr: Hrane Milosevic, YT1AD)
Donor: Gordon Marshall, W6RR

Asia

A61AJ (Opr: Robert Kasca, S53R)
Donor: Chuck Shinn, W7MAP

Japan

Satoshi Hara, JH5FXP

Donor: Japan Crazy Contesters Club

Japan - Low Power

Kenji Saito, JH2NWP

Donor: Western Washington DX Club

Oceania

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

South America

P40Q (Opr: Scott Redd, K0DQ)
Donor: Venezuela DX Club

SINGLE OPERATOR, SINGLE BAND

World - 28 MHz

HO1A (Opr: Stefan Radtke, DL5XX)
Donor: Joel Chalmers, KG6DX

World - 21 MHz

5R8HD (Opr: Bruce Lee, KD6WW)
Donor: N5JJ Memorial (Don Busick, K5AAD)

World - 14 MHz

5X1Z (Opr: Mats Persson, SM7PKK)
Donor: W2JT Memorial (North Jersey DX Assn.)

World - 7 MHz

Jiri Pesta, OK1RF

Donor: Alex M. Kasevich, VP2MM

World - 3.5 MHz

IR4T (Opr: Gabriele Macchi, IK4UPB)

Donor: Fred Capossela, K6SSS

World - 1.8 MHz

4X3A (Opr: Riki Kline, 4X4NJ)

Donor: Kenneth Byers, Jr., K4TEA

USA - 28 MHz

Bill Tippett, W4ZV

Donor: Wireless Institute of the Northeast

USA - 21 MHz

John Reuning, K4OAQ

Donor: Wayne Carroll, W4MPY

USA - 14 MHz

David Franks, K2XR

Donor: Northern Illinois DX Association

USA - 7 MHz

Phillip Allardice, KT3Y

Donor: W6AM Memorial (Jan Perkins, N6AW)

USA - 3.5 MHz

Robye Lahlum, W1MK

Donor: Bill Feidt, NG3K

USA - 1.8 MHz

Ronald McClain, W2VO

Donor: Dave Patton, NT1N & Mark Obermann, AG9A

Canada (7 MHz)

John Currie, VE1ZJ

Donor: Radio Amateurs of Canada

Carib./C.A. (28 MHz)

ZF2AM (Opr: John Barcroft, K6AM)

Donor: CQ magazine

Europe - 28 MHz

Greg Morris, 9H8A

Donor: Jay Pryor, K4OGG

Europe - 21 MHz

GI0KOW (Opr: Robert Williamson, GI0NWG)

Donor: Robert Naumann, N5NJ

Europe - 14 MHz

YT9X (Opr: Milan Milovanovic, YU1ZZ)

Donor: G3FXB Memorial (Maud Slater)

Europe - 7 MHz

YT1AD (Opr: Mladen Bogdanov, YU7NU)

Donor: Ivo Pezer, 9A3A/5B4ADA

Europe - 3.5 MHz

9A5Y (Opr: Zvonimir Karnik, 9A3LG)

Donor: K3VW Memorial (Frankford Radio Club)

Europe - 1.8 MHz

Danilo Brelih, S50U

Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ

Japan - 21 MHz

Kenji Koishi, JH3IAU

Donor: DX Family Foundation

Japan - 14 MHz

Yoshiharu Katada, JA9CWJ

Donor: Mitsuhiro Nishimura, JA7WME

MULTI-OPERATOR, SINGLE TRANSMITTER

World

P3A (Opr: RA9JX, RZ9UA, UA9MA,

RW9UP, RK3AD, UT7QF)

Donor: Anthony Susem, W3AOH

U.S.A.

K4XS (Opr: N2NL, N6MJ, K4XS)

Donor: Douglas Zwiebel, KR2Q

Canada

VE1JF (Opr: VE1JF, VE1JS, VE1RM, VE9DX,

VE9WH)

Donor: Eastern Canadian DX Assn.

Carib./C.A.

WP4NOW (Opr: WB9ZEZ, W9JOE, N9HZ)

Donor: Lone Star DX Association

Africa

EA8ZS (Oprs: EA8ZS, RA3AUU, RX3ARI)

Donor: Harry Booklan, RA3AUU

Asia

RT9W (Oprs: RU9WX, RX9WR, RW9WA,

RV9WB, RW9WW, RW9WY, RA9WR,

RV9WA, UA9WFM, RA9WTR, RA9WR)

Donor: Steve Merchant, K6AW

Europe

EA6IB (Oprs: EA3AIR, EA3AJW, EA3ALV,

EA3AVV, EA3KU, EA5BM, EA5ZF, EA6ACC,

EA6FB, EA6FO, EB6AOK)

Donor: Bob Cox, K3EST

Oceania - Pacific Rim

AH2R (Oprs: JI3ERV, JR7OMD,

JK3GAD, JR8VSE, JP1JFG)

Donor: Vienna Int'l Amateur Radio Club – 4U1VIC

South America

PT0F (Oprs: PY0FF, YU1RL, PY5CC,

PY7XC, PY7ZY)

Donor: Araucaria DX Group

MULTI-OPERATOR, MULTI-TRANSMITTER

World

HC8N (Oprs: N5KO, K6AW, N6TV,

K1KI, KM3T, N4GN, K9NW, K1TO, NBAX)

Donor: K2GL Memorial (Doug Zwiebel, KR2Q)

USA

KC1XX (Oprs: N6HB, W1FV, N2IC

K1GQ, N3RD, KC1XX, K1LZ, K1TR, K1XX)

Donor: N6RJ Memorial (Bob Ferrero, W6RJ)

Europe

RW2F (Oprs: RA2FA, RN2FA, RV2FW,

RZ3FA, UA2FB, UA2FCC, UA2FF, UA2FM,

UA2FP, UA2FX, UA2FZ, UA3DPX)

Donor: Finnish Amateur Radio League

Japan

JA3YBK (Oprs: JH3PRR, JG3KIV, JI3OPA,

JM3XKG, JP3PZD, JH4IFF, JH4NMT, JR4ISF,

JF4FUF, JL4CVB, JK1JHU)

Donor: Ryozo Goto, JH3JYS

WORLD - SSB/CW COMBINED

KC1XX

Donor: W0ID/W0UN ALPHA Award

JAPAN - MULTI-SINGLE SSB/CW COMBINED

JE4VM

Donor: Vienna Int'l Amateur Radio Club – 4U1VIC

CONTEST EXPEDITIONS

World Single Operator

CN2JS (Opr: Jacques Saget, F6BEE)

Donor: Yankee Clipper Contest Club

World Multi-Single

PJ2T (Oprs: KP2L, W0CG, K6LA, K4WA,

K8GT, WI9WI)

Donor: Carl Cook, AI6V

World Multi-Multi

XT2DX (Oprs: G3SXW, G3XTT, G4BWP,

G4IFB, G4PIQ, KC7V)

Donor: Bill Schneider, K2TT

SPECIAL - SINGLE OPERATOR AWARD

World SSB/CW Combined

3V8B (Opr: Hrane Milosevic, YT1AD)

Donor: Hrane Milosevic, YT1AD

World All Band: Under 21 years old

Thomas Andersen, OZ1AA

Donor: Chuck Shinn, W7MAP

CLUB

World SSB/CW

Yankee Clipper Contest Club (431,776,382)

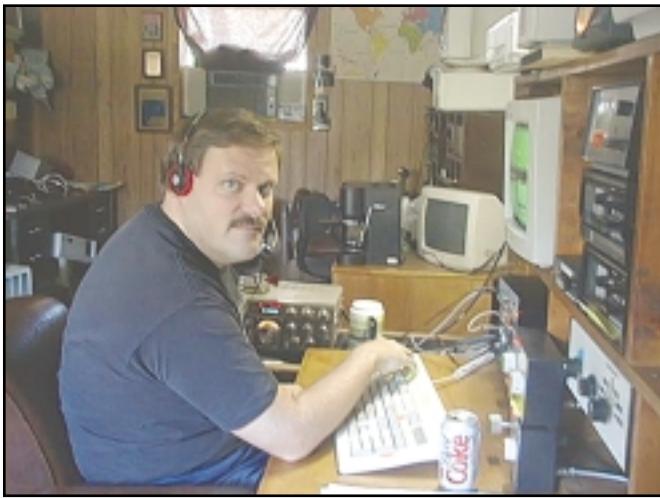
Donor: W1WY Memorial (CQ magazine)

Non-USA SSB/CW

Bavarian Contest Club (194,172,334)

Donor: N6AUU Memorial

(Northern California Contest Club)



Ed, K8EP (now N1UR), the op at C6ARS.



Rosel, DL3KWR, operated Single Op, Low Power, All Band.

Second went to all-around DXer and contesteer Tom, N4KG. Third was Bill, N8ET.

The top scores from each continent were North America TI5X, Asia JR4DAH, Europe LY5A, South America FY5FY, and Oceania KH6/W8QZA (Africa no entry). The top score from Japan was JR4DAH.

Assisted

Not only can he copy code at over 70 wpm, he also can operate in a contest. Frank, DL2CC, traveled down to CT9M and walked away with the top assisted score in the world. Second place went to another FB contesteer, Felipe, NP4Z, who keyed KP3Z into a lot of logs. World third place went to Chas, K3WW, who knows a thing or two about the assisted category. The #1 score in Europe was R3CC operated by Jack, RW3QC. Boris, S58A, finished second, while DL4NAC took third. In the U.S. the aforementioned K3WW took top honors. Second place went to Barry, W2UP, and third to Noah, K2NG.

The top scores from each continent were North America KP3Z, Africa CT9M, Asia UA9AM, and Europe R3CC (South America no entry; Oceania no entry). The top score in Japan was JI2KVW.

Multi-Single

Located on the western, central coast of Cyprus on top of a 20 meter cliff, the location of P3A has all the right conditions to allow for a world-class score. Traveling from various locations in Russia, this team once again took first place in the world. Second place in the world was the multi-national effort from the QTH of EA8ZS located on a banana plantation on Las Palmas. Another multi-national team traveled to PT0F to take third place world.

First place in the tough European MS category went to EA6IB. The Spanish team keyed their way to the top of the rankings. Second place went to the fine Hungarian team at HG1S, and third to another central zone 15 team at OM8A.

In the U.S. the top score was taken by K4XS down in Florida. Bill's team and his location sure paid off with top honors. Second place went to another southern team, W4AN, and third place went to constant high finisher N3RS.

The top scores from each continent were North America K4XS, Africa EA8ZS, Asia P3A, Europe EA6IB, South America PT0F, and Oceania AH2R. The top score in Japan was JE4VVM.

Multi-Multi

Putting together a top-contender station in the multi-multi category requires a lot of work. Look at the top scores and you will see evidence of the years of work it takes to create a station which is usu-

ally at a remote location. Each year these stations require high maintenance, even if they are permanent installations.

Coming out on top in the MM category was super-station HC8N located on the slopes of a mountain at the equator. The HC8N team worked hard for their victory. Second place went to the Voodoo team, which surprised contesters with XT2DX (see *their story elsewhere in this issue*—ed.). Ougadougou proved to be very popular. Third place went to J3A, who for the last several years has put J3 on the map. The #1 spot in Europe went to RW2F. This high-quality team finally moved into first place in 2001. Second place went to DF0HQ with their quad antennas, and third went to RU1A, entering their first year as MM. In the U.S. the KC1XX team QSOed its way to first place from their New Hampshire QTH. Second place went to K3LR from their QTH in western Pennsylvania. Third place went to W3LPL located in central Maryland.

The top scores from each continent were North America J3A, Africa XT2DX, Asia JA3YBK, Europe RW2F, and South America HC8N (Oceania no entry). The top score from Japan was JA3YBK.

Clubs

One of the best ways to enjoy ham radio is by joining a club. One of the best ways to enjoy contesting is to talk to your fellow club members about antennas, propagation, station design, and just the fun of socializing with other contesters.

The U.S. clubs always participate strongly in the CQ WW. This year was no exception. The battle for first place in the U.S. and DX was fierce! After all the log checking, it was determined that the Yankee Clipper Contest Club had just edged out the Frankford Radio Club. Third place went to the Potomac Valley Radio Club. In the rest of the world the top honors were taken by the Bavarian Contest Club, who just edged out the Rhein-Ruhr DX Association. Third place went to Contest Club Finland. The competition for a top club spot is heating up!

Special Mention

The CQ WW DX CW Contest was made more interesting by the DXpeditions of the following stations. How many did you work?

V26K, 8P9Z, 8P2A, VP9/W6PH, ZF2AM, ZF1A, HI3/K6CT, HI9/F6AUS, HI3K, TG9AJR, H6C, HO1A, V47KP, J88DR, HK0GU, VP5V, VP5G, KP2/K0DI, KP2E, ZD8Z, EA8EA, EA8AH, EA9LS, SU1ER, 9G5XA, 5R8HD, CT9L, 3B8/LATMFA, CN2JS, 5N0NHD, 5N0/G3SVW, 3V8BB, 5X1Z, RI0F, XU7AAV, JY9NX, 9K9X, 9K9Z, A45XR, A45WD, HZ1AB, A61AJ, ZC4BS, 9M2TO, 4U1VIC, OH0R, OH0V, OH0N, ZA/S57AW, J45KLN, J41YM, HA3A, GJ2A, LX4B, 9H0A, ER0ND, CT8T, CS7T, VK3FEI, T88JA, 9M6NA, 9M8YY, KH2/KG4PPO, NH7/N6HC, YB0AVK, ZK2MO, DU9/N0NM, H44MA, V63A, 4W1MM, P40Q, P40W, PJ4M, OA4O, TI5X, MU0ASP, 6Y1A, 6Y9A, 6Y2A, 6Y4A, 6Y8A, 6Y0A, XE2/W6RW, CT3M, 5H1X,

TOP SCORES

WORLD		TOP SCORES	
High Power	KP3CW.....638,932	J3A	23,133,600
All Band	L40E.....494,000	RW2F.....18,508,032	28 MHz
EA8EA.....12,516,906	H13K.....765,459	YU7WW.....414,072	Multi-Op., Multi-Trans.
3V8BB.....10,812,725	EA9EU.....745,745	G3KHZ.....371,266	RW2F.....18,021,850
A61AJ.....10,720,332	EA8NN.....703,110	OH0N.....325,500	NO4S.....372,154
8P9Z.....10,006,568	CX5AO.....670,026	RZ6FA.....297,206	DF0HQ.....18,071,850
P40Q.....9,877,730	LU1FAM.....607,770	9A3VM.....287,289	N0FW/8.....209,763
ZD8Z.....9,287,860	DL1LH.....405,309	UT4PZ.....260,876	OH2U.....15,382,160
A45XR.....8,919,400	CX9AU.....598,185	21 MHz	ES9C.....13,946,796
EA9LS.....8,838,332	VK6LW.....588,252	SP7GIQ.....5,138,420	K2MFY.....186,480
JY9NX.....8,745,472	LZ4ZP.....488,674	G4BUO.....5,129,800	HG6N.....12,664,938
CN2JS.....8,547,798	DK3DM.....412,830	DL1LH.....405,309	WW3S.....184,080
28 MHz		RK4FF.....5,111,302	21 MHz
HO1A.....1,673,777	CE4U.....405,557	S50A.....4,622,800	USA
ZY5A.....1,531,754	T92D.....378,609	YU1OJ.....383,292	All Band
CX5BW.....1,466,046	9A5FV.....3,703,008	SP4Z.....342,855	K5ZD/1.....7,048,856
ZS4TX.....1,304,606	OH0R.....3,664,440	Z37A.....335,070	K1AR.....6,271,568
ZF2AM.....1,205,246	28 MHz	OK2ZV.....293,181	N2NT/1.....6,027,840
HZ1AB.....1,145,920	SU1ER.....750,172	LZ4ZP.....488,674	W9RE.....5,712,255
21 MHz		CT8T.....990,250	KQ2M/1.....5,389,614
5R8HD.....1,378,533	CO2JD.....220,524	S56M.....556,341	W1KM.....5,369,000
KH7R.....1,193,523	4X/OK1EE.....178,500	9A7D.....512,253	14 MHz
H2G.....1,168,128	OK1FKM.....164,521	S50C.....508,849	K3ZO.....4,727,816
VP5V.....1,054,482	LZ1ABC.....137,352	YR4A.....465,843	K1DG.....4,461,175
Gl0KOW.....879,069	OK1FCA.....118,992	21 MHz	K91G.....3,851,925
9A5W.....853,216	3.5 MHz	GI0KOW.....879,069	N2AN/4.....3,823,896
14 MHz		HA8EU.....117,366	US1ITU.....255,024
5X1Z.....1,540,658	YU1KR.....115,515	9A5W.....853,216	28 MHz
LW9DAH.....724,128	OQ6NR.....107,355	CT1FJK.....736,610	W4ZV.....692,750
YT9X.....709,984	PA5AT.....105,732	SP3GEM.....731,634	NN4X.....673,140
9A6A.....701,575	EW8DX.....79,704	YZ1AU.....723,536	N4BP.....601,965
LY5W.....696,600	HG6V.....76,626	SP5GRM.....701,811	K2VV/0.....544,320
HA8FM.....654,974	1.8 MHz	21 MHz	K5RX.....481,920
7 MHz		TA3D.....101,380	N7KU.....370,560
OK1RF.....721,952	4N1A.....47,854	YU1ZP.....109,172	21 MHz
YT1AD.....622,776	HA8BE.....46,296	G4ODV.....92,232	K4OAQ.....586,022
YT7A.....599,950	UX5NQ.....45,184	3.5 MHz	N2MF.....579,439
S57DX.....555,012	G3WGV.....32,240	HA8EU.....117,366	N9AG/8.....484,292
KT3Y.....434,420	S54A.....30,730	YU1KR.....115,515	K4VX/0.....481,120
S52O.....398,650	QRP, All Band	OQ6NR.....107,355	W9OF.....238,392
3.5 MHz		OK1RF.....721,952	WA7LT.....148,122
IR4T.....309,213	FY5FY.....1,985,941	YT7A.....622,776	14 MHz
OD5/OK1MU.....261,024	TI5X.....1,581,010	YU1RA.....15,785	QRP, All Band
9A5Y.....246,196	HG5Z.....1,293,716	QRP, All Band	K2XR.....467,425
W1MK.....236,280	YT7TY.....1,252,100	LY5A.....2,055,896	N3BJ/4.....1,215,200
SP8BRQ.....213,760	N3BJ/4.....1,215,200	S52O.....398,650	K2BA.....362,700
S59CAB.....207,252	DL6DRR.....1,178,052	HA8DU.....370,629	K7P1.....178,432
1.8 MHz		TA9FJ.....1,073,610	K9CAN.....144,585
4X3A.....109,280	N4KG.....949,531	IR4T.....309,213	K1BV.....113,741
UA9AT.....100,639	JR4DAH.....817,298	SP8BRQ.....213,760	K1QS.....104,720
S50U.....76,038	Assisted, All Band	S55A.....30,730	14 MHz
EU6EU.....73,644	CT9M.....10,263,390	YU1RA.....15,785	7 MHz
LZ8T.....66,456	KP3Z.....7,763,460	QRP, All Band	KT3Y.....434,420
HG3M.....65,875	K3WW.....5,730,417	LY5A.....2,055,896	K9AY/4.....352,060
Low Power		R3CC.....5,584,144	N4PN.....334,170
All Band	S55A.....5,500,230	S58A.....5,500,230	W1MK.....236,280
P40W.....10,198,792	W2UP.....4,914,343	W2V0.....1,566	K1IR.....88,815
V26K.....7,744,605	K2NG.....4,768,500	NX5M.....1,000	K8MD.....11,289
8P2A.....6,135,096	DL4NAC.....4,599,990	K6SE.....780	K7ON.....2,511
ZC4DW.....5,877,190	UA9AM.....4,453,686	DL4NAC.....4,599,990	Multi-Op., Single Trans.
CS7T.....4,764,272	GW3YDX.....4,432,635	YU1ZP.....109,172	K4XS.....8,993,439
VP9/W6PH.....4,386,287	GW3YDX.....4,432,635	DF3CB.....3,721,947	W4AN.....7,736,256
VP5G.....4,194,364	EA8ZS.....12,982,992	RM4W.....3,677,352	N3RS.....7,663,500
C6ARS.....3,875,949	PT0F.....11,702,286	YU1RA.....15,785	K4JA.....7,428,048
PY2NDX.....3,711,441	EA6IB.....10,584,440	Multi-Op., Single Trans.	K8AZ.....6,847,945
ER6A.....3,551,989	PJ2T.....10,109,968	LY6M.....3,017,946	K3LR.....15,789,074
28 MHz		HG1S.....9,979,570	KC1XX.....16,892,980
LT1F.....1,041,032	Multi-Op., Multi-Trans.	DL1AO.....3,013,755	N4YD.....1,595,086
EA8AH.....1,010,794	HC8N.....47,176,688	EA6IB.....10,584,440	KM1X.....1,571,948
VR2BG.....815,765	XT2DX.....36,947,232	EA7GTF.....2,605,562	NY3A.....1,552,896
Comments		OK2FD.....3,837,627	NY3A.....1,552,896
Starting with the 2002 contest, the CQ WW has a new category: multi-two, abbreviated		YL8M.....3,746,800	W1UK.....2,719,830
M/UT3UA, P3A, 4U1ITU, CU2A, EA6IB, EA8ZS, LX5A, LX/DL4SDX, LX9DIG, 9M6A, AH2R, NH0S, PT0F, PJ2T, J3A, C6AKP, XT2DX, VQ9X, MZ5A, and HC8N.		DF3CB.....3,721,947	N2BA.....2,494,682
M2. Please check out this new category in the rules in this issue. The category uses band-changes/hour instead of a time rule. We think that you will find it a lot of fun.		RM4W.....3,677,352	N5AW.....1,921,000
The contest community may not realize the amount of time it takes to create the results you see on these pages. Let's just say that it takes thousands of man-hours. The biggest problem is logs that do not con-		YU1RA.....15,785	N4TZ/9.....1,774,584
form to a standard format. The CQ WW is worldwide, and there are always a number of people who believe their program is the best and thus submit a troublesome, time-consuming log which must be decoded separately. For this reason the Cabrillo format was created by N5KO, to allow for a standard submitting format. Please use the Cabrillo format when you submit your 2002		OM7M.....8,302,320	Multi-Op., Multi-Trans.
		OM7M.....8,302,320	KB1EAX.....1,490,370
		W3LPL.....15,686,595	NY4A.....10,609,911

M/UT3UA, P3A, 4U1ITU, CU2A, EA6IB, EA8ZS, LX5A, LX/DL4SDX, LX9DIG, 9M6A, AH2R, NH0S, PT0F, PJ2T, J3A, C6AKP, XT2DX, VQ9X, MZ5A, and HC8N.

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The contest community may not realize the amount of time it takes to create the results you see on these pages. Let's just say that it takes thousands of man-hours. The biggest problem is logs that do not con-

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CQ WW log; it is required for electronic logs. All the necessary data to enter your electronic log is in the header summary. It can easily be stripped off and organized. All the contest logging programs create a Cabrillo log for you. All you have to do is submit your log file to either <ssb@cqww.com> or <cw@cqww.com> and we will take care of the rest. When you send your log to one of above addresses, you will receive a robotic response of acknowledgment.

Thanks

First of all, the CQ WW Contest Committee wants to thank you, the entrants, for taking the time to send an electronic log. Your effort to send your log to us via e-mail makes it easier for you and much easier for us. As was mentioned earlier, the percentage of e-logs reached an all-time high of 92% in the CQ WW CW last year! Please continue to send in your log electronically.

The compilation and reporting of these results would not be possible without the efforts of the 40 or so people behind the scenes who make it happen. The CQ WW e-mail robot was set up and is maintained by John, K2MM. Once you send your log and summary to either <ssb@cqww.com> or <cw@cqww.com>, it is processed, decoded, and massaged by Larry, N6TW. Larry has put in many hours to make the log processing efficient and accurate. Dick, N6AA, makes the call database as accurate as is humanly possible. Helping gather data were K1DG, N3ED, K6NA, N6ZZ, N9RV, N2NC, K3WW, and K3LR. Phil, N6ZZ, served as a sanity check at each stage of the creation of the master database.

The CQ WW Committee also has special advisors: K3ZO, N2AA, N8BJQ, G3SXW, S50A, KR2Q, K1AR, N5TJ, W3ZZ, and N5KO. The CQ WW uses the constantly updated log-checking software developed by Tree, N6TR. The CQ WW DX advisors are CT1BOH, DL6RAI, EA3DU, F6BEE, G3SXW, RA3AUU, OK2FD, I2UIY, JE1CKA, OH2KI, OH2MM, ON6TT, PY5EG, S50A, UA9BA, and VE3EJ.

Congratulations to all the winners! Join the CQ WW fun in 2002! 73, Bob, K3EST

DX QRM

Terrible condx first day plus high level of noise on low bands. It was a big fun anyway... **4U1ITU (OM8AW)**. Major screw-up. CQ MSG was 6Y2A and TU message was 6Y5A. Treat other logs lightly if reported call is 6Y5A. Treat my log harshly. Contest was fun from DX location and QRP only ... **6Y2A**. VY HPI that I could QSO with HZ, PY's, my new entities! This year's result is the best score of my past participations. Only 10W output! MN1 TKS 4 UR works ... **7K2PBB**. Worst condx in many years. Had a total black out—nothing heard on any band on Saturday afternoon. Much better on Sunday ... **7S2E**. Thanks to 8P6SH for all of his help! ... **8P2A**. Poor propagation to USA ... **9G5XA**. Since A61AJ is a fully equipped multi-multi setup, I had to rewire the station in a way that only three operating positions were available—SO3R, hi! Though, except for simple logging network, no connections were available between the stations. Had to jump a lot around the spacious shack when moving mnts! ... **A61AJ (S53R)**. First SO2R attempt with some teething problems. Many thanks to Ivo (ADA) for his help, 5B4AFM for his SO2R box, and 5B4ES for hosting again. Hope to C U next year! ... **C4W**. Never trust just one alarm clock ... **CT9M**. After a long time of being QRT it was my first try in the CW part. My K2 with 5 watt into a multiband dipole did a great job ... **DF9JZ**. A big "thank you" to the hams of the Guernsey ARS, espe-

CLUB SCORES	
DX	
Bavarian Contest Club	194,172,334
Rhein-Ruhr DX Assn.	178,994,008
Contest Club Finland	146,819,710
Marconi Contest Club (I)	92,836,589
Ural Contest Group (UA9)	73,610,610
Russian Contest Club	60,517,130
Slovenia Contest Club	60,373,215
Tikirikki Contest Club (I)	55,379,803
LNDX (F)	54,700,806
Aphrodite Contest Gang (5B4)	52,488,816
Araucaria DX Group	52,429,990
Kuanas Tech Univ RC (LY)	51,952,841
SP DX Club	44,113,610
YU Contest Club	34,767,292
Croatian Contest Club	32,196,694
Pordenone Gansters	31,368,071
Lithuanian DX Group	29,313,293
Top of Europe Contesters	27,896,588
TuPY DX Group (PY2)	27,615,880
Latvian Contest Club	26,451,689
Chiltern DX Club	25,201,701
HA DX Club (HA)	24,986,873
Czech Contest Club	20,256,198
Low Land Crazy Contesters (PA)	19,583,730
Ukrainian Contest Club	18,674,405
Japan Crazy Contesters	17,628,818
Vojvodnia Contest Club (YU7)	14,621,410
Contest Club Slovenia	13,503,354
Crimean Contest Club	12,648,279
LU Contest Group	11,916,301
Sarajevo Contest Gang (T9)	11,636,984
GPDX (CT)	11,368,525
ARM (ER)	10,059,867
Danish DX Group	8,095,292
Kiev Contest Group	7,636,068
Lyon DX Gang (F)	7,502,825
Belarus Contest Gang	7,054,593
GACW (LU)	6,862,424
British Columbia DX Club	6,832,515
Southern Cross DX Gang (CE)	6,819,952
Moscow Contest Club	5,801,136
LA Contest Club (LA)	5,088,561
Lynx DX Gang (EA)	4,427,789
Guara DX Group (PY7)	3,796,475
Alberta Clippers (VE6)	3,682,755
Vologna Radio Club (UA1)	3,527,045
Banat DX Gang (YU7)	3,394,514
SP Contest Club	3,329,989
Contest Club Cambria (GW)	3,053,404
Northern Patagonia DX Group	3,050,654
Activity Group Belarus	2,968,841
Central Siberia DX Club	2,927,813
Algarve DX Gang (CT)	2,783,043
Jura Swiss Park Team (HB)	2,735,170
Thailand DX Assn.	2,521,579
Kontest Klub Kransnoyarsk (UA6)	2,273,129
Radio Amateur Assn. Western Greece	2,272,426
Koryazhma DX Company (UA10)	2,114,514
YU1EXY Club	2,077,941
NOL Contest Team (ON)	1,902,759
Beemster Contest Club (PA)	1,838,364
Vrhnika DXERS (S5)	1,770,037
Amsterdam DX Club	1,469,371
Odessa Contest Club	1,375,343
Novosibirsk Contest Club	1,179,843
MNS Contest Team (ON)	1,168,475
Macedonia Contest Team	1,057,705
South German DX Gang	1,015,356
Fox Contest Club (YU)	1,014,589
Globus Club (UR)	982,650
OL7D Club	979,184
USA	
Yankee Clipper Contest Club	431,776,382
Frankford Radio Club	425,406,537
Potomac Valley Radio Club	227,507,867
North Texas Contest Club	100,382,575
Florida Contest Group	84,756,594
Southern California Contest Club	69,154,771
Society Midwest Contesters	63,839,223
Northern California Contest Club	57,133,227
North Coast Contesters	54,324,741
Southeast Contest Club	40,925,109
Mad River Radio Club	36,799,777
Central Texas DXCC	35,772,885
Minnesota Wireless Assn.	28,067,230
Willamette Valley DX Club	19,806,776
Tennessee Contest Group	17,058,526
Western Washington DX Club	16,408,305
Carolina DX Assn.	15,813,137
North Florida DX Assn.	15,138,485
Rochester DX Assn. (W2)	12,858,776
Texas DX Society	12,790,929
Grand Mesa Contesters of CO (W0)	9,508,904
Central Arizona DX Assn.	6,812,624
Eastern Iowa DX Assn.	6,672,694
Kentucky Contest Group	5,906,655
Southwest Ohio DX Assn.	4,844,524
Oklahoma DX Assn.	3,889,327
Mile-Hi DX Assn.	3,590,131
Kansas City DX Club	3,527,762
UTAH DX Contest Club	2,997,052
West Park Radio Ops (W8)	2,355,506
Hudson Valley Contest &DX Club	2,354,430
American Red Cross EC (W2)	1,856,370
Southern California DX Club	1,773,071
Great Lakes DXCC (W8)	1,578,233
South New Jersey Radio Assn.	1,555,994
Western New York DX Assn.	1,391,436
Cherryland ARC (W8)	1,201,516
Sterling Park ARC (W4)	1,195,439
Northern Arizona DX Assn.	1,180,799
Athens County ARC	1,111,530
Salt City DX Assn. (W2)	1,109,804
Schenectady ARA (W2)	1,064,160
Bergen County ARA (W2)	507,288
Heartland DX Assn.	436,074
Northrop-Grumman RC (W6)	369,681
Great South Bay ARC (W2)	363,592
Michigan DX Assn.	285,248
Metro DX Club (W9)	263,170
Hickory Withe DX Club (W4)	138,850
Jersey Coast (W2)	132,857
Fresno ARC (W6)	13,132

cially to Ed, GU3SQX, and Phil, GU0SUP, for their help and hospitality. Guernsey is a place that is much too beautiful to go there only from Thursday to Monday with two days of radio in between. I'll be back, but next time for a real holiday—well maybe with a little pile-up every now and then ... **DL2OBF**. FB contest! ... **ES1TM**. Just a brief operation from France. Outside these times I was also active as G3VQO (checklog attached). Hope it doesn't cause too much confusion ... **F/G3VQO**. 1st entry QRP with my K1, band-limited: 80/40/20/15m only. QRP is really fun!! Not sure I will enter anymore a contest running more than 5W!! VY 72/73 and waiting for the next edition! ... **F5PBL**. Things were going well until I lost my main amp after abt 12 hours. Changed to my 2nd radio amp for back-up only to lose that after a further 6 hours. Decided to pull

out after that and had the rest of the weekend off! See you next year ... **G0IVZ**. More countries/ zones/contacts than last year, less 3 point contacts so lower score!! Aurora on Saturday morning didn't help. Elecraft K2 really superb RX ... **G3WPW**. Great fun to enter my first CQWW log from a modest station. The PU's were not as big as D68C but had great fun. Hope to CU next year ... **GU4YOX**. Highlight: Being called by HI8 for a 7 MHz mult at 2358Z on Sunday. Lowlight: Failing to move the TF double mult ... **GW7X**. The 500W was not enough to break the QRM from Jakarta, but in CW was much more better ... **YB0AVK (HA7VK)**. First time that HB9A, the callsign of the Union of Swiss Radio Amateurs (USKA) has been used in a CQWW contest MS. All operators liked this contest very much and would like to do again next year ... **HB9A**.

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
EA8EA	141/14/48	421/17/55	802/27/73	1618/35/103	1569/34/104	2060/34/110
3V8BB	171/8/49	611/19/72	1160/28/90	1307/37/105	1047/32/108	1565/35/102
A61AJ	198/12/45	201/17/53	1032/30/92	1237/36/111	1372/34/110	1916/32/112
8P9Z	84/7/11	670/22/73	1334/22/78	1113/26/80	1589/28/90	2024/31/104
P40Q	119/9/31	288/16/61	832/23/78	1213/31/96	1738/34/102	1767/32/97
ZD8Z	33/10/27	195/17/59	366/24/62	783/31/85	1511/35/108	2606/32/120
A45XR	73/10/32	337/17/59	939/31/88	1229/35/100	1057/31/106	1495/31/106
EA9LS	80/4/33	263/13/57	969/25/82	1084/34/96	893/29/98	1810/33/101
JY9NX	66/7/36	501/12/58	1116/25/81	916/29/94	1187/29/103	1484/31/103
CN2JS	4/2/4	331/13/60	939/25/79	861/33/98	1454/35/117	1353/29/107

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
P3A	193/11/55	682/22/81	1145/30/113	1979/39/131	1974/38/138	2139/37/143
EA6ZS	84/11/46	205/18/73	1301/35/112	1155/40/127	1514/37/129	1479/38/138
PT0F	20/10/19	187/16/56	728/27/86	1975/33/105	1612/34/126	2312/33/121
EA6IB	51/8/51	200/20/86	1310/34/120	1530/40/141	1584/39/137	1675/38/142
PJ2T	111/9/18	314/18/63	916/28/98	1578/35/115	1128/33/115	1459/32/118
HG1S	90/11/61	510/24/93	1385/39/124	1144/40/131	1157/40/141	1332/39/146

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
HC8N	344/18/34	1563/33/110	3372/39/143	3800/40/155	4266/40/151	4157/40/152
XT2DX	165/12/44	569/23/75	2010/35/119	4221/40/145	4490/38/148	4104/39/146
J3A	150/13/28	908/24/84	2398/34/113	2916/40/140	3440/37/135	2751/36/116
RW2F	906/15/72	1546/25/98	2111/39/128	2778/40/144	2007/39/145	1653/37/146
DF0HQ	793/14/70	1461/31/114	2341/39/138	2223/40/138	1943/40/141	1819/38/146
RU1A	759/16/67	1137/29/102	2242/40/139	2651/40/141	1839/40/145	1487/37/136



Left to right, some zone 19 personalities: RA0FU, N6ZZ, UA0FAI, and UA0FZ. N6ZZ operated from RI0F on Sakhalin Island in the CQ WW CW.

Propagation was very poor on Saturday and only a little better on Sunday. Only the great help of two friends like DL6RAI and DL2NBU helped us to reach a good score. We worked zone 3 on 10 only on Sunday afternoon; that gives an idea of the bad propagation ... **IQ4A**. The 10 meter band had the best openings ... **JA1AZS**. Not so great condx and having a cold, I had a nice sleep! A shortest sleep (40 minutes) on SSB and a longest sleep (10 hours) on CW, so 2001 WW was over and now thinking abt 2002. Life's too short. Sleep and excuse should have been short or zero! ... **JA8RWU**. Three weeks ago I got a tower at my backyard. I worked to built this contest is a debut of my new antennas. The performance is I achieved approximately double score by last year ... **JH2NWP**. Never try a new logging program one day before the contest! ... **KP3Z**. Very strong aurora first day!! Thanks for nice contest ... **LY2BBF**. Wow great conditions for QRP, but no US on Saturday. 20 meters opened up to the USA on the Sunday evening. Until then I had not worked many USA stations. It made a big difference to the final score. Fantastic contest. See you next year ... **M4T**. My first ever go at a CW contest and what a way to dive in at the deep end. Enjoyed giving a few points away. 100% S&P. Next year perhaps a proper effort ... **MW5EPA**. I enjoyed the contest and QSOs with excellent operators. Thanks! Must improve our antennas and skill for next year. Thanks to all for contacts ... **NH0S**. Great experience from zone 10! ... **OA4O**. Amazing what 100W to a 2nd hand trap-GP indoor downtown can work with the help of sunspots. Great ops at PT0F and XT2DX who heard me sneaking by the pile-up—QRQing instead of going QRS! Also made some contacts QRO and with real antennas ... **OE5OHO**. Thanks for QSOs everybody! CU in 2002! Saturday was a disappointment in conditions, but Sunday was fun ... **OH0V**. This year I had to cancel IH9P operation because of QRL so I tried 15m with tribander. I was surprised how it worked well! ... **OL5Y**. First time ever I made over 1000

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	27/9/18	181/15/59	928/32/106	1074/37/120	860/32/104	720/32/103
K1AR	23/9/16	184/17/61	762/32/99	822/40/112	858/32/102	732/31/110
N2NT/1	23/11/15	196/15/66	796/28/90	831/39/116	723/30/102	842/30/102
W9RE	16/8/11	151/21/59	578/35/94	983/39/115	679/33/107	779/36/97
K02M/1	12/4/6	86/12/45	568/27/81	881/38/104	714/31/110	1053/33/112
W1KM	39/10/24	304/16/61	727/35/100	650/35/100	571/28/93	942/27/90
K3ZO	5/4/3	117/12/44	630/26/84	704/35/104	709/26/93	852/31/95
K1DG	15/5/6	111/15/48	675/29/92	676/35/100	578/29/97	720/29/100
KR1G	11/4/6	141/13/57	730/26/81	469/29/84	704/26/91	650/25/83
N2AN/4	17/8/14	101/12/46	346/27/79	606/31/93	771/35/101	740/29/91

USA MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
K4XS	12/7/10	115/24/86	922/36/116	852/40/140	1022/39/142	1108/38/140
W4AN	22/10/16	99/23/78	1030/37/116	990/39/132	670/37/136	957/35/133
N3RS	23/11/22	130/20/75	992/34/115	773/39/133	834/35/133	875/34/129
K4JA	35/11/33	286/22/84	504/32/117	994/40/138	904/35/130	601/36/137
K8AZ	18/8/17	88/22/71	833/34/116	1041/40/138	599/34/128	813/34/126
N4TO	19/9/17	90/22/76	493/32/109	936/40/129	561/34/123	910/35/130

USA MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
KC1XX	67/12/30	703/26/99	1498/36/125	2058/40/142	1615/37/141	1327/36/135
K3LR	89/14/35	310/23/81	1486/37/131	1817/40/151	1455/39/147	1504/37/142
W3LPL	193/14/40	579/28/97	1430/37/123	1899/40/146	1494/40/147	1369/36/138
N2RM	92/12/34	552/25/93	1532/35/124	1762/40/142	1439/35/133	1172/36/128
K9NS	126/14/26	272/26/86	951/34/123	1570/40/146	1439/40/143	1293/36/127
NY4A	25/9/15	340/19/82	1149/34/117	1343/40/130	1551/35/128	1023/35/123

QSOs during a single weekend, no CQing only S&P. Happy to give out the special OQ4 prefix. Commemorative QSLs will be sent via the bureau to all those worked ... PSE don't forget to send your QSL ... **QQ4CAS**. A perfect year for low power; disturbed conditions were music to my ears ... **P40W**. First CQWW CW from small home station due to the unavailability of PI4COM club station. I was very surprised working 38 US station with 100 watts and simple L-antenna: 11m vertical and 14m horizontal part series fed with 300 pF. Happy to work XT2DX also. Until next time ... **PA5AT**. I thank for they have organized this beautiful contest of high level ... **PY3CQ**. Grace and peace! ... **RK3BY**. After the SSB CQWW M/M from IG9A, I was sorry I did not stay there for the CW portion. After the fantastic set-up of stations there and nobody was QRV on CW. Anyway, nice contest as always and extremely bad conditions first day! ... **SS0R**. Ham radio is fun, isn't it? ... **S51JM**. First contest with keyboard keying—wonderful!! ... **SM3EAE**. The CQWW is my favorite contest ... **SP8JHM**. Limited operation on 160 meters only, testing new antenna. It was the first experience on 160 for all three of us and we enjoyed it a lot ... **SW1R**. My thanks to Juan, TG9AJR, and Jocelyn, my wonderful hosts! This was a last-minute, no-preparation DXpedition. All I brought to TG was a paddle and keying interface. Juan supplied the antenna (vertical), XCVR (Yaesu 767GX), and computer. Thanks to XE1KK and N5KO for installing the antenna in September ... **TG9AJR**. Some new operators in the team tasted the thrill of big M/S station. Sure they will try again! ... **TM2Y**. Very very like the WW contest ... **UA0BA**. The excitement before and during the contest, the drive that keeps one alert 48 hrs straight, the highlights like continuous high rates or openings to high density mult areas that were not missed, then the end of it all and instant feeling of deep satisfaction and then joy. I'll be there next time for sure! ... **UN1LT** (**UA9BA**). We have bad time here—big wind and snow. Over 7 hours it was no electricity and my "quad" on 10/15m was broken. Sorry, maybe next year will be better ... **UR6F**. First day of contesting was a disaster thanks to aurora, but the conditions improved a lot on Sunday. Being the only station active from zone 2 resulted in huge pile-ups on Sunday ... **VA3NA**. Great way to clean out the cobwebs after 10 years away from CW contesting! Was even more of a blast with 10 watts and a dipole! I'm hooked again! ... **VE3RSA** (**ex-VE3HTT**). The flare wiped US out 1st day, second much better. Burned out one radio and blew a tube out in one amplifier but we still had fun ... **VE7GL**. Part-time operation; introduced another ham to the joys of CW contesting. Conditions sounded not so good on Sat. ... **VK5GN**. Jet lagged from long overseas trip to discover my friendly power company changed street distribution to 23k KV with an S9+20 dB noise level. It was still fun. Perhaps they will change their insulators in time for next year's test ... **XE1V**. Propagations were good all across the bands for the whole two days plus new radio made contest time a lot of fun! ... **YB0UNC**. Propagation within Indonesia and South and North America is very good. This contest was hard work ... **YE1A**. Starting with the contest from small city near Yugoslavian (Kosovo) border. After two hours contest was over because of electricity problems and huge snow storm. I decided for "safe escape" to YU8 land. I hope for more luck next time. All the best for the committee ... **ZA/S57AW**. Very pleased with score considering I don't have a beam. Horizontal loop performed really great. I became an expert in retuning the ATU for a quick QSY ... **ZC4DW**. Answer it was of excellent level. Many difficult stations were very well heard here by the south of Brazil. We thanked for the organization and we were in the wait of the accountancy of the points. As every scout says: "be prepared" ... **ZX3S** (**PY3UEB**).

USA QRM

Lost about one hour Friday night due to local lightning storm. Very rough day Saturday, with high bands all but dead until sunset. Sunday was pretty good but rates were not as

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
SP7GIQ	168/7/38	487/23/62	748/23/76	942/27/69	1030/36/98	891/34/85
G4BUO	63/9/37	564/18/68	561/25/84	841/35/98	1008/34/106	649/31/105
RK4FF	101/10/34	331/11/54	870/29/90	857/37/101	985/33/115	1322/34/113
S50A	71/7/45	493/19/65	965/33/92	773/30/91	681/33/97	852/34/104
YT7R	113/12/57	343/16/62	715/30/101	874/33/103	776/36/109	547/34/117
OM5M	45/5/22	333/15/60	776/25/82	1046/37/98	640/30/103	919/37/111
OG1MM	67/6/36	430/12/61	580/25/91	795/33/97	558/31/105	765/35/115
HA8JV	145/10/47	521/19/70	691/31/95	636/34/95	531/32/99	593/35/105
EA5FV	8/3/7	181/14/53	557/17/68	849/29/90	1079/33/118	903/27/85
OH0R	281/7/42	525/20/75	524/26/89	756/35/92	485/29/94	490/35/104
LY7Z	249/10/47	382/15/61	281/23/82	858/36/119	1030/33/121	898/34/122
ER0ND	124/9/44	247/14/51	500/26/79	632/32/107	1101/32/101	1359/35/112
SQ6Z	68/5/31	295/9/50	288/25/80	740/35/106	1063/34/108	1238/34/108

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

EA6IB	51/8/51	200/20/86	1310/34/120	1530/40/141	1584/39/137	1675/38/142
HG1S	90/11/61	510/24/93	1385/39/124	1144/40/131	1157/40/141	1332/39/146
OM8A	59/10/58	304/19/88	1127/37/122	1360/40/137	1101/40/138	1264/38/143
TM5C	54/10/53	700/22/85	1157/33/111	1066/38/125	1332/38/134	1047/35/133
9A7A	191/9/55	638/17/83	1079/29/102	1173/37/138	1694/40/140	726/39/141
OM7M	289/14/66	512/24/195	1063/37/120	1026/40/129	843/39/140	1054/39/144

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

RW2F	906/15/72	1546/25/98	2111/39/128	2778/40/144	2007/39/145	1653/37/146
DF0HQ	793/14/70	1461/31/114	2341/39/138	2223/40/138	1943/40/141	1819/38/146
RU1A	759/16/67	1137/29/102	2242/40/139	2651/40/141	1839/40/145	1487/37/136
OH2U	803/17/72	1004/26/101	1782/37/132	2387/40/145	1799/40/142	1244/38/149
ES9C	877/12/64	1305/25/90	1974/38/123	2544/40/137	1741/40/141	1177/35/130
HG6N	581/14/64	1053/19/80	1750/36/118	2225/39/132	1815/40/139	1535/38/139

good as we had hoped. First CW Multi-Single from AA5NT ... **AA5NT**. Family commitments limited me to playing only one day. Unfortunately it was the first day!! ... **K0EJ**. For my first single-band effort I tried 80m. Highly recommended. You really learn the band when it's all you do for the whole contest! This score represents only the first night. Unfortunately, a family event took top priority for the second night ... **K1IR**. Conditions were so bad, I let my wife talk me into quitting the contest and working on projects around the house. I woke up Sunday morning early, turned on the radio, and started running. Wow, conditions back! When I got the tap on the shoulder: "I thought you were gonna work on the house today!" Coldly, I switched off the radio. Next time I will keep my mouth shut. Contest weekend is contest weekend, no matter how bad condx seem ... **K2NJ**. Indoor antennas in apartment makes it interesting! ... **K2UR**. No low band antennas this year, but just wait until next year. I sure miss Caribbean conditions having been V26JT this time last year ... **K3JT**. Many DX ops have great ears! ... **K4RV**. Saturday was a complete bust with severe weather and horrible propagation. Sunday was somewhat better. Thanks everyone! ... **K4WI**. I am not a competent CW operator, but I did have a good time ... **K5RA**. Two contests in the same weekend! Poor conditions first day were matched by great conditions the second day ... **K5ZD/1**. 10, 15 dead to Europe Sat. morning! Bad for the left coast! Conditions generally poor for most of the test for us "little pistols." Oh for a beam—and power! ... **K6CEO**. Lousy noisy conditions, 25-year-old gear that was temperamental, antenna work that never worked, blew the band switch up on 15m in the amp, a rain storm, poor sleep, and only had time to make about 113 contacts on 4 bands. Damn, what fun! I can't wait til next year! ... **K7DD**. Was lots of fun, but it just ain't the Caribbean! Also, you know Saturday was bad when you start working new "mults" and they turn out to be common countries such as France, Italy, Germany, etc.! ... **K7ZUM**. Saturday was like the bottom of the sunspot cycle on 10. Highest hourly rate was 9. Luckily the ionosphere recovered and conditions were good to excellent on Sunday, especially strong signals from the Pacific towards the end... **K8IR**. Into every contesteer's life a few protons must fall ... **K9MA**. I wait all year long for the CQWW. QRP contesting doesn't get any better than this! ... **KA6SGT**. Sure had fun this year! Ran the contest from the lake QTH. Too bad about the solar flare on Saturday. Not many signals made it thru. Hope to have the tower and beam up for next year. See you all next year ... **KB9KEG**. The solar flare Saturday made me check to see if antenna still standing ... **KC7UP**. Worked 4W6MM but failed to work A52R ... **KE1F**. First big contest; had a blast. Used an attic antenna ... **KG4HTT**. Wow—non-contester types just don't know the study in propagation they are missing out on! This was unbelievable: The arctic flutter on 20 was so bad I could almost see ice on the signals! Yet still working many EU. Glad 10 recovered from the proton event on Sunday! ... **KS7T**. Great runs w/JA! ... **N0KV**. Like two different contests! Boy, how conditions changed on day 2. Glad I didn't give up ... **N1DG**. 700 mw for all except XT2DX with 2 watts! ... **N2JNZ**. Fantastic contest. Didn't do as well as I would have liked to but there's always the next time. Still had a great weekend. Thanks ... **N3FR**. Solar activity sure made for some strange propagation. Worked 9V1YC from the east which is 90 degrees from either long or short path ... **N4IG**. Saturday conditions made me ponder retirement from the sport. Sunday was the most fun I've ever had in a DX contest. It was neat to have more than enough people to work on Sunday. It was a mad dash to the finish line. I'm finally getting used to using two radios at once. What's next, SO3R? ... **N4YDU**. This was my third time out in the QRP category and managed to beat last year's score despite challenging conditions the second day. This is my favorite contest of the year and my thanks to CQ for sponsoring it! Thanks also for all the QSOs! ... **N5TW**. Working SU1ER long path on 40 was great! ... **N6IC**. The sun god must hate radio contests! Thank God for JA! ... **N7DF**. Saturday was a struggle! Sunday was a lot of fun! ... **N8ET**. Bands lousy on Sunday morning so worked



OE3ZK—a winning score Single Op, 14 MHz, High Power.

HC8N on 6 with 5 watts! ... **N9IJ**. Thanks to all the great ops who copied my 5 watt signal and thanks to the gang at XT! ... **NU4B**. Interesting conditions; log represents four merged stations ... **NY4A**. I know why they call it the black hole ... **WB0SLW**. Patience is still a virtue!! Again? ... **W1AMF**. Sure wish stations would ID more often! Can you imagine number of "worked b4's" that would be eliminated and time saved waiting to log a given QSO? ... **W3DH**. The worst of times (Saturday) and the best of times (Sunday)! ... **W4ZV**. Bad thunder storms on Friday night. Murphy hit me late Friday night and I lost the amp. Conditions poor to fair and the Oklahoma Sooners lost on Saturday. Thank goodness that the Cowboys didn't play Sunday. I still enjoyed the contest. There were a lot of good operators ... **W5FO**. Murphy never lets me down. When I tried to use my amplifier on 10 meters it would lock up my computer. Wound up having to run barefoot low power 100 watts throughout the contest on 10. Conditions were great at times but total blackout occurred too ... **W6NKR**. Those VooDoo ops at XT2DX have amazing ears ... **W7BX**. It's always nice to greet old friends from around the world ... **W8GOC**. The extensive record list that Bob (K3EST) has developed for this contest at the <cqww.com> website makes it the best contest in the world. Pick the record, and try to beat it! ... **W8QZA**. Two contests rolled into one 48 hour period. Whether you like prosperity or adversity, this contest had it! ... **W9RE (N9RV)**. My first contest using electronic logging. Sure helps the score and relieves the chore of dupe checking. As always, lots of fun ... **WB0TRA**. My first CQWW CW. Enjoyed all the fun and frustration! ... **WD9DZV**.

(Continued on page 104)

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Number groups after call letters denote following: Band (A = all), Final Score, Number of QSOs, Zones, and Countries. An asterisk (*) before a call indicates low power. Certificate winners are listed in bold. (All country terminology reflects the DXCC list at the time of the contest.)

CW RESULTS

SINGLE OPERATOR

NORTH AMERICA

UNITED STATES

K5ZD/1	A	7,048,856	3790	157	510
K1AR	"	6,271,568	3381	161	500
N2NT/1	"	6,027,840	3411	153	491
KQ2M/1	"	5,389,614	3314	145	458
W1KM	"	5,369,000	3233	139	451
K1DG	"	4,461,795	2775	142	443
KR1G	"	3,851,925	2705	123	402
WC1M	"	3,157,596	2218	126	381
NR1DX	"	2,616,963	1801	116	413
KS1J	"	2,603,058	1999	111	356
W1WEF	"	2,555,168	1733	118	426
W1FJ	"	2,197,539	1707	107	370
W1CU	"	2,074,345	1223	136	475
N6RFM/1	"	1,610,070	1066	121	440
W1QK	"	1,601,292	1294	98	364
KC1F	"	1,567,386	1396	92	304
W1ECT	"	1,466,457	1382	93	308
K1VDF	"	1,042,730	1222	77	261
W1GF	"	1,026,434	985	84	298
K5MA/1	"	887,964	910	90	251
K1HI	"	763,732	681	94	345
K1ZZ	"	693,330	677	97	266
W1EQ	"	669,288	761	76	240
W1B1H	"	384,750	447	102	303
K1CN	"	302,791	414	72	219
W1RZF	"	278,588	413	61	196
W1TO	"	208,260	291	66	201
K1GW	"	204,672	466	52	156
K1RV	"	67,878	162	43	119
W1AW	"	43,673	158	36	83
(Op: W1ND)					
K1AJ	"	15,949	167	9	32
NY1E	28	77,256	284	25	86
K2SS/1	21	2,448	31	13	21
K1BV	14	113,741	404	25	82
K1QS	"	104,720	335	31	105
W1MK	3.5	236,280	738	26	94
K1R	"	79,143	341	19	74
*W1UK	A	2,719,830	1973	112	398
*KM1X	"	1,571,948	1325	95	339
*K1OA	"	1,523,376	1270	98	330
*KB1EAX	"	1,490,370	1256	104	349
(Op: WA1NLP)					
*W3EF/1	"	1,476,475	1223	110	345
*K1HT	"	1,246,245	1032	99	330
*W1WAI	"	1,241,790	1069	93	333
*NY1S	"	1,156,287	1042	93	314
*NT1N	"	758,088	747	100	274
*W1KT	"	588,504	590	88	284
*K1IB	"	466,612	671	68	216
*W1ZK	"	444,264	523	85	236
*N1DC	"	369,873	473	71	238
*N3KCU/1	"	307,317	467	64	203
*W1ZS	"	282,163	441	50	183
*K1VSJ	"	229,424	402	55	153
*K1VUT	"	211,276	345	66	173
*K1NU	"	196,582	329	64	163
*K1RO	"	195,201	346	52	155
*WA1Z	"	136,213	258	58	145
*K1EP	"	128,288	276	45	143
*K1JB	"	106,176	216	59	133
*KR1B	"	76,860	266	47	133
*W1END	"	74,814	254	26	85
*N1DS	"	74,654	194	48	115
*K1SWG	"	60,738	160	49	110
*K1BD	"	59,947	152	49	102
*W6FC/1	"	52,649	136	48	115
*KG1D	"	49,200	140	50	100
*K1YB	"	42,312	152	51	113
*W1DAD	"	34,720	118	44	80
*W3GN	"	103,372	227	51	121
*W3RJ	"	405,414	582	73	230
*W3AD	"	328,900	618	57	163
*W3DAD	"	307,980	427	65	196
*W3UL	"	205,656	350	56	172
*N4GG/3	"	179,816	281	73	193
*W3VT	"	153,792	268	72	195
*K3UL	"	90,511	1058	102	295
*K3TC	"	792,810	772	102	312
*N3KR	"	675,948	712	84	280
*W3AZ	"	669,535	673	96	277
*K4JLD/3	"	569,584	643	99	289
*W3BYX	"	516,600	622	80	270
*W3TMZ/4	"	220,286	280	93	248
*K4OAO	21	586,022	1341	38	120
*K9AY/4	7	352,060	996	35	110
*N4PN	"	334,170	983	50	119
*W4JNN	"	24,465	108	29	76
*N4PKD	"	21,320	80	39	65
*W4ZW	"	20,097	84	35	64
*W7QF/4	"	9,936	64	25	44
*W4ZV	28	692,750	1472	37	133
*N4NM	"	673,140	1576	36	120
*N4BP	"	601,965	1459	35	112
*K4OAO	21	586,022	1341	38	120
*K9AY/4	7	352,060	996	35	110
*N4PN	"	334,170	983	37	121
*W4WNO	"	316,800	821	33	111
*N4UK	1.8	666	17	8	10
*W4NPD	"	21,320	80	39	65
*W4ZW	"	20,097	84	35	64
*W7QF/4	"	9,936	64	25	44
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*W4ZW	"	20,097	84	35	64
*W7QF/4	"	9,936	64	25	44
*W4ZV	28	692,750	1472	37	133
*N4NM	"	673,140	1576	36	120
*N4BP	"	601,965	1459	35	112
*K4OAO	21	586,022	1341	38	

*W9LYA	"	30,523	142	47	84	VE3EJ	"	4,154,496	3403	128	368	SAN ANDRES/PROVIDENCIA	UA9JLL	"	121,278	496	24	78	4X4WN	28	857,556	2129	37	127		
*K9XE	"	26,037	103	34	65		"	2,046,080	2433	101	267	*HK0GU A	RJ9J	"	651,467	1711	39	128	4X3A	1.8	109,280	557	16	64		
*W9YO	"	22,347	114	47	70	VA3NA	"	2,690,662	2649	111	322	(Op: DL7VQG)		"											(Op: 4X4N)	
*AA9NF	"	6,549	54	23	36	VE3AT	"	2,667,470	2395	112	330	TURKS & CAICOS ISLANDS	RW90W	"	343,057	1284	35	108	*4X/ES2RR A	1,454,112	2243	61	182			
*N9KO	"	5,250	43	21	29	VA3UA	"	1,608,150	2033	88	267	VP5V	21	1,054,482	3437	35	108	*4Z5OL	"	297,871	548	80	122			
*K9OSH	"	2,992	30	12	22	VE3PN	"	690,543	1041	79	212	(*Op: W5AO)	UA9QCI	"	51,184	408	31	81	*4Z5AX	"	270,265	627	42	149		
*K9MI	"	100	78	26	48	VE3UKR	21	27,432	163	17	55	(*Op: K3TEJ)	UA9UHD	"	8,772	98	10	33	*4X/OK1EE	7	178,500	777	17	67		
*W9OP	28	150,785	410	34	109	VA3MG	1.8	1,141	155	4	3	(*Op: N4FD)	RW9TA	7	180,360	690	26	82	JAPAN							
*W9LY	"	125,955	353	31	104	*VE3XK	A	1,382,784	1476	102	314	(*Op: K3ANZ)	RK9AY	3.5	85,224	501	15	52	JK10LT	A	1,419,348	1348	137	290		
*K60MB/9	"	51,574	211	26	69	*VE3KP	"	663,552	942	72	216	(*Op: N4FD)	UA9SP	"	75,600	421	14	58	JK10PL	"	1,121,184	952	145	313		
*N9XR	"	1,700	92	23	45	*VE3MOW	"	613,868	746	85	247	(*Op: N4FD)	UA9AT	1.8	100,639	524	15	62	JR1UX	"	723,840	993	113	199		
*K9JC	21	217,986	557	32	109	*VE3BUC	"	502,112	742	72	212	(*Op: N4FD)	RV9SV	"	6,132	174	10	32	JR1QOW	"	580,851	699	103	200		
*K9KJ	14	5,940	56	13	32	*VE3UM	"	403,310	488	78	232	(*Op: N4FD)	RA9DZ	A	1,334,880	1328	96	309	JA1HP	"	435,130	646	83	182		
NR0X	A	1,591,858	1148	130	384	*VA3IX	"	31,411	194	40	47	(*Op: N4FD)	RN9RZ	"	1,091,793	1061	112	327	JI1NJC	"	348,161	409	121	220		
K0KK	"	1,338,660	1167	118	326	*VE3RSA	"	3,920	45	17	23	(*Op: N4FD)	UA9AX	"	959,247	861	115	362	JR1LEV	"	302,841	535	82	149		
N0KV	"	979,352	1044	112	247	*VA3TTT	3.5	25,461	492	9	18	(*Op: N4FD)	RK9AD	"	880,542	892	108	318	JI1PMV	"	227,331	489	94	167		
KE0UI	"	869,982	1007	100	266	*VE4IM	A	449,098	638	92	207	(*Op: N4FD)	RA9AE	"	828,008	1060	74	258	JA1SJV	"	223,964	570	47	99		
W0GG	"	861,050	789	120	305	*VE4YU	A	112,100	225	61	129	(*Op: N4FD)	RA9XF	"	805,560	1059	64	230	J1ABD	"	63,495	169	63	90		
WB0O	"	757,620	671	118	296	*VE4MF	21	7,930	82	16	49	(*Op: N4FD)	RA9XJW	"	793,544	1134	81	200	JH1EVD	"	42,401	149	42	67		
N0DY	"	636,804	763	107	255	*VE5AA	"	3,920	45	17	23	(*Op: N4FD)	UA9OA	"	790,866	1012	76	242	JR1LQK	"	29,526	118	46	66		
W0NXS	"	621,867	876	77	214	*VE5AD	"	31,411	194	40	47	(*Op: N4FD)	RA9CGK	"	531,092	744	66	224	JA1HHU	"	27,810	132	32	58		
W0ZQ	"	454,260	555	92	247	*VE5AA	"	3,920	45	17	23	(*Op: N4FD)	UA9HN	"	495,816	730	78	214	JR1ATA	"	21,090	90	48	47		
KJ0G	"	392,808	564	99	213	*VE5AC	"	613,868	746	85	247	(*Op: N4FD)	UA9AP	"	362,544	501	64	209	JH1AEP	28	497,068	129	36	107		
WA0MHJ	"	355,498	473	75	211	*VE5BC	21	44,321	361	10	32	(*Op: N4FD)	UA9OSV	"	201,690	512	37	129	JR1AIB	21	383,918	1124	34	105	(*Op: JE1CKA)	
W0HW	"	222,640	356	68	174	*VE5SF	A	642,541	1115	86	185	(*Op: N4FD)	UA9CR	"	175,336	330	50	152	J01OZI	"	23,033	131	24	51		
W0OR	"	146,496	256	68	156	*VE6JY	28	10,472	210	16	18	(*Op: N4FD)	RA9FTM	"	122,090	358	29	116	JR1F5S	14	149,816	606	35	87		
W0TY	"	68,322	316	60	117	*VE6WQ	7	1,968	43	10	14	(*Op: TI2WGO)	RA9FM	"	114,426	264	36	127	JA1LZR	"	80,184	354	30	74		
K0GT	"	53,655	135	42	105	*VE6XQ	"	21,735	115	28	55	(*Op: OH1MA)	RU9UG	"	110,536	329	50	114	JK1LUY	"	18,724	111	19	43		
K0JPL	"	52,998	149	55	91	*VE6YU	A	28,101,794	2391	35	116	(*Op: OH1MA)	RA9XE	"	71,721	253	29	88	JA1OZC	7	2	1	1			
W0RT	"	40,086	127	49	82	*VE6YU	A	403,260	681	86	174	(*Op: OH1MA)	RA9XQ	"	64,416	242	28	94	J1XEM	3.5	731	20	7	10		
W0ML	"	38,772	130	37	71	*VE6BF	21	170,404	650	25	91	(*Op: OH1MA)	RA9KM	"	38,280	154	37	79	J510YN	A	1,058,697	1189	115	224		
W0ML	"	38,772	130	37	71	*VE6EX	14	127,600	621	28	72	(*Op: OH1MA)	UA9UR	"	27,295	131	32	71	*JE1FEU	"	488,877	717	86	181		
K2VW/0	28	544,320	1223	35	127	*VE7UF	A	1,185,064	1634	110	218	(*Op: K9BGL)	UA9UB	"	19,776	110	31	72	JN1NOP	"	379,690	670	89	126		
WN0L	"	47,508	218	28	79	*VE7CC	3.5	35,457	313	20	33	(*Op: K9BGL)	RA9FLW	"	225	8	7	8	J1CP	"	350,065	587	89	176		
K4VW/0	21	481,120	1058	36	124	*VE7XF	A	686,066	922	104	207	(*Op: K9BGL)	UA9YAB	28	249,560	748	33	103	JM1NHZ	"	333,528	534	92	159		
KG0UA	"	61,914	226	25	77	*VE7FO	"	387,860	828	81	134	(*Op: K9BGL)	CT9L	A	1,676,280	1317	97	361	J1BNW	"	295,539	478	80	157		
*KU1CW/0 A	"	998,202	984	123	315	*VE7XK	A	686,066	922	104	207	(*Op: K9BGL)	RA9JU	"	187,812	772	26	82	JG10WV	"	197,984	303	109	160		
*W0ETT	"	528,040	616	102	242	*VE7XK	"	506,952	998	86	130	(*Op: K9BGL)	RA9KJ	"	147,810	482	32	98	JE1HJV	"	146,371	292	75	122		
*W0VX	"	272,136	405	83	193	*VE7XK	"	202,470	518	69	101	(*Op: K9BGL)	UA9QKJ	"	127,292	402	28	93	JG10VW	"	134,023	30	81	142		
*KNOV	"	231,556	347	78	166	*VE7ASK	"	16	4	4	4	(*Op: K9BGL)	RA9CBM	14	247,804	662	35	109	JJ1JGI	"	128,250	302	75	115		
*K0GN	"	200,600	330	73	163	*VE7IN	28	72,072	433	26	51	(*Op: K9BGL)	UA9CCL	"	145,424	474	32	90	JF1PSRG	"	128,250	302	75	115		
*K0SQ	"	171,990	310	68	166	ZF2AM	A	28,120,546	2035	37	124	(*Op: K9BGL)	UA9GJ	"	93,312	315	28	80	JF1HPC	"	118,469	279	57	112		
*K0UK	"	163,172	574	88	138	ZF1A	21	775,782	2782	31	95	(*Op: K9BGL)	UA9QJ	"	55,182	210	26	76	JA1XRH	"	109,296	235	72	104		
*W0BV	"	112,200	236	52	113	*VE027	7	220,524	1203	22	70	(*Op: K9BGL)	UA9QX	"	7,700	71	19	36	JH1DVY	"	94,668	247	52	86		
*K0MPH	"	180	28	13	23	*VE027	7	220,524	1203	22	70	(*Op: K9BGL)	RA9QZ	"	684	26	6	13	JH1FEV	"	82,928	229	64	89		
*W0BTRA	"	4	1	1	1	*VE027	7	220,524	1203	22	70	(*Op: K9BGL)	UA9QZ	"	684	26	6	13	JN1MSO	"	59,392	207	45	71		
*K0CO	28	154	7	5	6	ZM0H9	A	1,377,060	2767	75	220	(*Op: K9BGL)	RA0AU	"	764,082	1263	130	244	JH1MTR	"	55,000	164	48	77		
ALASKA	A	398,695	1442	32	89	*VE027	A	1,384,484	2800	110	348	(*Op: K9BGL)	RA0DCD	"	367,616	735	88	168	J1XPU	"	51,667	161	50	71		
KL7RA	A	327,510	1136	58	77	*VE027	"	3,022	66	11	12	(*Op: K9BGL)	RA0DLA	"	263,549	517	85	162	J1EJD	"	42,478	184	51	83		
KL7WV	"	45,506	237	42	80	*VE027	21	765,459	2219	35	118	(*Op: K9BGL)	RA0ANW	"	221,728	576	66	142	J1EJAC	"	32,334	135	39	63		
AL7PJ	"	45,506	237	42	80	*VE027	21	765,459	2219	35	118	(*Op: K9BGL)	RA0AQI	"	205,000	205	38	62	JH1NXU	"	24,346	129	34	40		
KL7Y	28	142,560	795	26	46	*VE027</																				

*JA2KPW	30,674	119	41	57	JAY9VOK	21	156,562	577	30	76	OZ1HET	A	295,707	596	69	172	LZ2DL	"	130,865	483	68	150	*OK2BNC	"	183,480	418	66	203	
*JA2MZ	18,414	123	39	60	JAYCWJ	14	297,153	799	36	101	*E20HHK	"	13,197	76	34	49	LZ2PL	28	363,315	1169	36	123	*OK2PBG	"	156,492	372	63	170	
*JJ2TKX	5,635	50	19	30	*JH9VSF	28	262,508	866	34	90	*HS8/	"					LZ2JA	"	168,780	670	28	88	*OK1ES	"	105,248	366	34	109	
*JE2XBS	2,343	30	15	18	*JH9KVF	21	214,840	709	35	96	G3NOM	28	268,657	908	34	103	LZ2SSB	"	67,321	364	28	78	*OK1DXR	"	103,950	300	50	139	
*JJ2SHW	"	42	4	2	*JR9NVB	"	209,408	641	34	94	*HS4BPQ	21	57,969	303	29	84	LZ2A	21	380,972	1472	38	126	*OK2AJ	"	103,293	386	42	111	
*JR2TMB	2,070	29	13	17							(Op: LZ1ZF)					LZ2B	"	113,410	667	28	80	*OK2HFC	"	42,884	179	44	107		
*JL2LPX	14	21,014	139	28	51	JAYQWO	A	1,379,730	1557	111	228	UK BASES ON CYPRUS					LZ2G	"	113,410	667	28	80	*OK1FFH	"	31,500	106	47	78	
JS3CTQ	A	2,810,328	2377	141	315	JR0WZR	"	378,730	574	104	209	*ZC4DW	A	5,877,190	4318	120	385	LZ2GTR	"	34,812	253	21	60	*OK2PAD	"	22,192	120	28	48
JAYYPL	"	795,987	941	97	220	JH0FWU	28	330,240	1022	35	93	*ZC4BS	21	397,964	1330	28	94	LZ2R	7	126,200	709	92	130	*OK1MNW	28	204,445	591	35	120
JF3MKC	"	202,103	360	76	133	JR0PJR	21	47,628	220	28	70	A61AJ	A	10,720,332	5957	161	523	LZ2X	3.5	61,600	760	15	65	*OK2PTZ	"	149,093	497	30	103
JA3ARM	"	67,980	196	53	79	*JE0UXR	A	813,138	914	110	244	(Op: G4KV)					LZ2Y	1.8	66,456	792	13	65	*OK2SW	"	108,429	352	33	108	
JA3RK	"	12,402	70	37	51	*JAOFXU	"	85,485	245	48	91	UZBEKISTAN					LZ2Z	"	113,410	667	28	80	*OK2QA	"	95,472	329	29	88	
JA3WFQ	"	6,612	42	24	34	*JHOJNE	"	295,404	497	84	155	UK9AA	28	596,120	1781	35	105	LZ1AQ	"	167,475	481	47	128	*OK1TCW	"	77,392	323	25	87
JAX3OG	28	240,950	766	33	89	*JAOBJY	"	269,115	451	81	152	XV9SW	21	351,392	1267	32	107	LZ1IN	"	96,570	322	35	95	*OK1DUG	"	62,946	315	30	87
JH3AIU	21	684,483	1672	37	114	*JAOJPE	"	69,048	207	61	107	(Op: WA1LWS)					LZ1FJ	"	23,088	190	23	88	*OK1IL0	"	36,192	222	23	73	
*JO3JYE	A	892,240	1281	100	204	*JAOJPP	"	65,552	243	56	80	VIETNAM					LZ4BU	"	13,013	69	31	46	*OK2XA	"	16,080	105	21	46	
*JA3PYC	"	255,162	401	91	167	*JIOJNA	"	55,242	262	73	113	*3W2ER	A	946,050	1524	88	230	LZ4C	"	4,352	85	17	30	*OK2ZV	21	293,181	939	35	126
*JK3GW	"	232,787	712	33	98	*JGOJAXT	"	44,688	189	47	65	*ZC1FH	28	104,995	485	24	91	LZ4D	"	113,410	667	28	80	*OK2NN	"	261,600	817	35	125
*JG3NKP	"	207,611	410	63	128	*JAOJCK	"	8,330	43	29	41	(*Op: J4ZGFE)					LZ4E	"	84,637	341	29	84	*OK1VD	"	188,496	638	36	118	
*JG3LGD	"	197,570	340	89	141	*JH0NIX	28	151,685	498	34	81	*3W2LWS	"	232,408	525	66	143	LZ4F	"	30,495	120	30	77	*OK2QX	"	163,116	626	30	108
*JA3UWB	"	138,582	304	59	111	*JH0NSA	"	66,338	350	28	54	(*Op: WA1LWS)					LZ4G	"	22,446	156	22	53	*OK1AXA	"	129,780	481	29	111	
*JE3UHV	"	63,365	185	61	84	*JAE0MS	"	61,669	280	27	56	XV9SW	21	89,404	422	28	96	LZ4H	"	76,672	329	29	99	*OK1G1	"	76,672	329	29	99
*JA3DAY	"	30,562	98	47	71	*JG0EXP	21	32,886	170	25	56	(*Op: SM5MX)					LZ4I	"	4,886,674	1736	39	124	*OK2PKF	"	73,848	386	22	80	
*JR3NDM	"	6,800	65	33	47	*JAOJOF	"	22,680	150	25	56	(*Op: SM5MX)					LZ4J	"	66,515	545	30	86	*OK1MMN	"	66,216	372	18	75	
*J03UDL	"	2,684	24	23	21	*JAOJOMS	"	11,118	79	17	34	WEST MALAYSIA					LZ4K	"	3,150	31	17	25	*OK2BRV	"	34,354	249	18	71	
*JA3HC	"	2,631	29	19	17	*JR0QKR	"	8,064	81	16	32	*9M2TO	A	707,078	1801	95	239	LZ4L	"	8,090	61	24	39	*OK1SRD	"	812	43	9	20
*JE3WOM	"	2,380	24	14	20	*JH0PEI	14	172,492	562	35	81	(*Op: JA0DMV)					LZ4M	"	8,090	61	24	39	*OK1JDJ	14	1,618	50	6	24	
*JF3BFS	28	298,740	851	35	95	*JAOJGZ	"	1,723	34	11	9	EUROPE					LZ4N	"	8,090	61	24	39	*OK1FKM	7	164,521	787	29	104	
*JF3IYW	"	69,222	347	27	56	*JJOJGS	7	3,588	72	17	22	4U1VIC	A	2,414,517	3395	123	360	LZ4O	"	8,090	61	24	39	*OK1FCA	"	118,992	677	23	88
*JN3DSH	"	49,929	242	27	62	*JAOAQ	3.5	8,007	138	21	30	JORDAN					LZ4P	"	8,090	61	24	39	*OK2KJ	"	54,900	370	18	72	
*JF3KOA	"	29,896	162	25	49						ALAND ISLANDS					LZ4Q	"	8,090	61	24	39	*OK1ITG1	"	46,893	423	18	69		
*JR3EO1	21	336,144	912	36	113	JY9NX	A	8,745,472	5270	133	475	(*Op: JM1CAX)					LZ4R	"	8,090	61	24	39	*OK1DKM	"	4,496	142	5	33	
*JK3AHS	"	896	33	13	19						CROATIA					LZ4S	"	8,090	61	24	39	DENMARK							
*JG3EHD	14	330	13	2	9						ALBANIA					LZ4T	"	8,090	61	24	39	OZ1LO	A	3,376,776	3433	131	417		
JH4UYB	A	5,310,168	3411	163	419	JAY9VOK	21	156,562	577	30	76	OHØR	A	3,664,440	3061	152	496	LZ4U	"	8,090	61	24	39	OZ1AA	"	3,183,104	3161	124	388
JAAQZ	21	31,932	122	23	46	JY9WZ	28	151,685	498	34	81	OHØV	21	587,832	1775	39	129	LZ4V	"	8,090	61	24	39	OZ4KG	"	34,780	468	57	178
*JR4PMX	A	792,414	856	120	222	UPØL	"	4,911,742	3459	133	438	OHØN	28	325,500	1074	34	116	LZ4W	"	8,090	61	24	39	OZ4RT	"	6,962	102	11	48
*JR4GPA	"	588,264	891	183	173						ALBANIA					LZ4X	"	8,090	61	24	39	OZ5DX	28	49,595	241	23	68		
*JA4EZA	"	254,648	484	81	148	JAY9WZ	"	30,921	126	39	60	ZA/S57AW	3.5	31,339	792	29	86	LZ4Y	"	8,090	61	24	39	OZ4ZB	"	9,789	116	14	44
*JA4BA4	"	69,061	199	57	90	JY9WZ	"	30,921	126	39	60	EX2A	A	3,017,011	2099	111	310	LZ4Z	"	8,090	61	24	39	OZ4RS	"	448,804	871	64	228
JASIP	"	114,345	286	68	97	JY9WZ	"	180,047	609	31	88	EX2A	28	101,474	377	32	81	LZ5A	"	8,090	61	24	39	OZ4MF	"	30,456	614	68	214
JAS5APU	21	122,416	579	32	80	JY9WZ	"	133,454	493	28	78	EX2A	14	179,424	583	33	93	LZ5B	"	8,090	61	24	39	OZ4FF	"	248,611	489	73	231
JAS5EZI	1.8	48	10	6	6	JY9WZ	"	101,474	377	32	81	EX2A	28	8,085,666	311	30	73	LZ5C	"	8,090	61	24	39	OZ4ZB	"	3,870	38	20	25
*JH5OXF	A	790,320	857	114	256	JY9WZ	"	1,357,400	1481	114	257	KOREA					LZ5D	"	8,090	61	24	39	OZ4ZG	"	247,725	783	58	167	
*JA5IDV	"	7,788	56	27	32	JY9WZ	"	127,160	308	63	124	KYRGYZSTAN					LZ5E	"	8,090	61	24	39	OZ4ZJ	"	257,520	633	52	140	
*JH5PHC	14	114,016	412	32	80	JY9WZ	"	127,160	308	63	124	EX2A	A	3,017,011	2099	111	310	LZ5F	"	8,090	61	24	39	G3UW	"	112,796	346	56	117
*JA5ATN	7	20,735	159	19	46	JY9WZ	"	127,160	308	63	124	EX2A	28	101,474	377	32	81	LZ5G	"	8,090	61	24	39	G3VY	"	85,500	279	41	109
*JA5JGV	1.8	24	3	3	3	JY9WZ	"	5,824	59	24	28	EX2A	14	179,424	583	33	93	LZ5H	"	8,090	61	24	3						

ESTONIA	A	121,352	670	36	118	*UA3AMZ	*	18,894	106	34	60	*F5ICC	*	869,316	1142	77	316	*DL8NBJ	*	243,714	630	67	235	*HA4YG	"	23,302	162	17	37																
ES4RD	A	195,096	834	31	101	*RA1TV	*	11,868	113	22	64	*F5NQL	*	602,932	1200	82	304	*DL1TH	*	237,630	621	63	204	*HA6VA	28	64,952	263	31	90																
ES5QA	B8	747,192	1176	89	293	*RZ6FA	28	297,206	984	34	127	*F5VVK	*	510,048	890	70	238	*DL3NSM	*	232,288	534	67	205	*HA8YU	"	12,090	75	22	40																
*ES2DZ	A	183,330	62	246	93	*RA3EA	*	233,200	723	35	105	*F5OIU	*	414,750	1275	59	178	*DL2ANM	*	230,090	510	68	198	*HA3JB	21	169,341	639	30	111																
*ES1CW	"	159,858	437	59	190	*RV3ACA	*	200,577	728	32	107	*F5YJ	*	312,000	696	67	253	*DL6NZG	*	212,025	511	61	196	*HA5PP	"	150,675	554	33	114																
*ES7FU	"	68,418	266	33	93	*UA3SAQ	*	130,545	542	32	103	*F5SGI	*	283,080	548	69	211	*DL2FDL	*	202,880	877	73	247	*HA8AR	14	65,946	465	22	65																
*ES10X	28	75,184	374	28	99	*RA3WA	*	129,456	414	30	114	*F5JLV	*	264,410	596	75	203	*DL4AAE	*	185,920	400	54	112	*HA8EU	3.5	102,108	968	18	75																
*ES1TM	21	54,450	462	20	70	*UA3QQ	*	48,858	255	25	77	*F5RPB	*	130,021	462	50	165	*D4PT	*	185,832	440	56	176	*HG6V	"	66,665	698	15	71																
*ES6CO	3.5	5,136	100	8	40	*RK6LP	*	24,294	143	22	56	*F5JY	*	102,054	328	46	137	*DL0FR	*	170,520	427	59	144	*HA8BE	1.8	46,296	650	12	60																
*ESGPZ	1.8	8,004	181	5	41	*RA3YO	*	4,399	50	15	38	*F5G3VQO	*	15,096	110	28	74	(*: DJ5W1)	*	10,920	215	7	45	(*: HA6IAM)																					
EUROPEAN RUSSIA																																													
RK4FF	A	5,111,302	4378	154	508	*R3XDBG	21	63,671	378	23	82	*F6IIIE	28	102,676	389	31	102	*DL5RMH	*	169,242	429	49	152	ICELAND																					
UA1QM	"	2,642,972	2281	138	488	*RN6HZ	14	225,169	951	31	102	*F5LJY	*	58,860	258	28	80	*DL5SS	*	146,076	271	72	150	*TF3GB	A	229,152	887	42	144																
R3AZ	"	2,616,889	2461	142	517	*RU6FA	*	171,696	719	34	113	*F5TGR	*	100	84	17	44	*DL5DBH	*	145,387	483	60	151	*TF8SM	"	144,326	550	43	126																
UA4FER	*	2,587,046	2296	149	459	*UA4FCO	*	110,656	942	34	99	*F8PDR	21	127,602	509	32	107	*DL3KWR	*	137,112	416	56	176	IRELAND																					
RP4PL	*	1,700,562	1830	124	385	*RV6AA	*	62,384	204	29	73	*F5MMX	7	52,500	712	16	54	*DL8ZZ	*	130,050	326	62	163	E15GM	28	168,516	1209	26	67																
RA3TT	"	1,677,968	1975	122	415	*RA1QR	*	30,744	238	22	62	(*: DJ1YH)	*	109,263	495	28	93	*DL4JYT	*	113,033	402	66	173	E14BZ	3.5	142,870	1140	18	73																
RN6AL	"	1,530,500	1924	116	384	*RV6FG	*	13,420	96	23	38	(*: DL2MEH)	*	101,282	280	50	128	*DL2MH	*	101,673	253	62	175	ITALY																					
RA3NN	"	1,219,374	1772	110	376	*RA1OHL	*	837	19	13	18	(*: DL2ZAE)	*	95,604	294	47	139	*DL6NH	*	78,223	194	59	120	IK6SNQ	A	2,153,767	2071	134	447																
UA3ABJ	"	1,116,542	1283	110	351	*UA3RF	7	89,010	502	24	91	*F5LJY	*	78,860	258	28	80	*DL5ASK	*	78,085	1103	99	316	IK2AHB	"	788,085	1103	99	316																
RU3GN	"	998,714	1185	106	353	*RA4FH	*	71,694	345	28	98	*F5DPK	*	1,940,625	1738	127	448	*DL70N	*	74,448	216	52	92	IK2UCK	"	319,422	628	77	201																
UA3AP	"	914,196	1241	99	345	*UA6NZ	*	19,646	317	22	72	*F5YBM	*	1,786,535	1906	115	400	*DL5KWO	*	71,145	287	35	100	IC4COW	"	195,300	384	74	205																
UA1OMS	"	906,910	1236	103	340	*RV6LF	*	19,440	204	15	57	*F5LWX	*	1,633,104	1559	139	389	*DL8UGF	*	65,155	230	49	108	IK1FVO	"	136,740	361	54	161																
RV3ID	"	803,952	109	102	330	*RW3VA	*	12,546	109	17	65	*F5LJY	*	1,500,707	1761	107	372	*DL2AL	*	59,096	276	46	132	IK2A0O	"	68,960	287	41	119																
RA3NZ	"	668,349	1154	83	304	*RA4VA	*	100	72	7	9	(*: DF0FS)	*	1,332,240	1702	105	350	*DF7ZS	*	48,096	194	48	119	IO4L	28	460,260	1395	37	143																
UA4LY	"	564,300	760	107	311	*UA3XAC	3.5	33,431	165	28	73	*F5KDM	*	1,254,267	1848	87	300	*DL1DQW	*	36,720	281	55	161	I03X	"	410,328	1272	38	126																
UA1OZ	"	553,164	1264	90	282	*RA6GF	*	29,011	363	11	56	(*: DL1EKC)	*	1,049,104	1292	98	310	*DL3HRF	*	33,184	195	27	34	(*: I4LCKU)																					
RA3XA	"	503,891	832	93	274	*UA6AKD	*	24,882	344	11	54	(*: DL6UNF)	*	997,863	1563	99	388	*DL8WW	*	32,004	182	38	89	II2K	"	20,196	213	18	50																
RK3DX	"	494,040	895	85	273	*UA3AMY	*	22,976	339	10	54	(*: DL6LW)	*	899,790	1057	97	348	*D79AO	*	26,676	191	31	86	(*: IK2BFU)																					
RT3A	"	352,590	1276	38	123	*RA6LO	*	22,691	302	14	55	(*: DL5KSS)	*	722,880	1085	70	250	*DL6WEE	*	10,323	92	31	62	IU7M	21	408,043	1451	35	122																
UA4FFN	"	316,632	809	69	265	*UA6ATG	*	5,202	95	9	42	(*: DL5JSS)	*	604,976	610	94	274	*DK7FP	*	3,264	55	10	22	(*: IK7JWY)																					
RA3XO	"	309,750	455	85	265	*RW3WM	*	4,949	96	7	42	(*: DL5LSS)	*	671,576	1021	90	284	*DK7AN	*	24,102	113	40	63	IN3FHE	"	425,646	698	79	242																
RK3AZ	"	206,044	644	70	173	*RV3QH	*	2,485	101	5	30	(*: DL1DQW)	*	674,561	1268	80	279	*DL6UAM	*	20,874	199	19	79	IR7A	"	280,320	541	70	222																
UA3ICK	"	188,496	601	54	210	FAROE ISLANDS																																							
RA4HX	"	159,445	488	57	166	FINLAND																																							
RW3SK	"	152,076	477	72	204	0Y1CT	A	678,688	1557	67	247	*F5LWX	*	1,296,421	2160	138	438	GERMANY																											
RN6AH	"	119,852	493	41	125	0G1MM	A	3,780,421	3196	142	505	(*: OH1MM)	*	1,250,625	1738	127	448	*DL6NCF	*	1,049,070	1292	98	310	(*: DK5JY)	*	137,632	558	35	101	(*: I4KUPB)															
RV1CC	"	104,640	275	60	132	0H2BH	*	2,978,858	2827	137	429	(*: OH1MDR)	*	1,253,200	3059	130	430	*DL6MHW	*	1,350,924	693	63	239	(*: DK5JY)	*	126,250	148	23	52	(*: I4LCKU)															
RN3RC	"	94,061	184	33	93	0G1F	*	295,050	672	22	66	(*: DL7UGO)	*	109,350	291	63	180	*DL6KBM	*	105,348	212	90	304	(*: DK5JY)	*	126,250	148	23	52	(*: I4LCKU)															
RA4AX	3.5	34,816	438	13	55	0H2XK	28	56,118	225	31	110	(*: OH2CV)	*	303,644	251	29	123	*DL6LWU	*	114,168	295	56	157	(*: DK5JY)	*	126,250	148	23	52	(*: I4LCKU)															
RA6AX	1.8	21,106	290	12	49	0H5NE	*	33,744	251	29	123	(*: DL6RBM)	*	306,936	639	62	228	*DL6RBM	*	126,250	148	23	52	(*: DK5JY)	*	126,250	148	23	52	(*: I4LCKU)															
UA4CCG	"	20,358	280	9	49	0H5PT	*	32,277	111	54	86	(*: DL6JY)	*	306,936	300	39	146	*DL6JY	*	126,250	148	23	52	(*: DK5JY)	*	126,250	148	23	52	(*: I4LCKU)															
RA3XB	"	17,286	1178	93	327	0G4A	14	649,800	2239	38	114	(*: OH6QU)	*	1,250,954	1713	99	330	*DL6QW	*	126,250	148	23	52	(*: DK5JY)	*	126,250	148	23	52	(*: I4LCKU)															
RA3AV	"	593,895	1027	94	317	0G4A	14	115,100	753	28	72	(*: DL8NCR)	*	115,100	301	42	133	*DL7VEE	*	126,250	148	23	52	(*: DK5JY)	*	126,250	148	23	52	(*: I4LCKU)															
RA6CF	"	549,066	1055	82	275	0G8L	*	115,100	753	28	72	(*: DL7YH)	*	115,100	301	42	133	*DL7YH	*	126,250	148	23	52	(*: DK5JY)	*	126,250	148	23	52	(*: I4LCKU)															
RA3UAG	"	525,872	934	37	281	0H3IR	*	86,625	301	42	133	(*: DL7YH)	*	86,625	301	42	133	*DL7YH	*	126,250	148	23	52	(*: DK5JY)	*	126,250	148	23	52	(*: I4LCKU)															
RA4CTR	"	456,228	797	81	267	0H2BCD	*	71,451	473	26	61	(*: DL7YH)	*	71,451	473	26	61	*DL7YH	*	126,250																									

LY2LF		3,330	45	15	22	SP4AVG		36,065	176	41	106	PORTUGAL		66,528	244	38	94	SLOVENIA		4,622,800	3835	156	494	SM5CLE		381,984	734	79	267													
LY2BM		3.5	121,532	1131	20	72	SP6XP		25,666	147	31	51	CT1BNW		A	66,528			SM3R		63,304	249	48	116																		
LY2BW			30,555	485	12	51	SP8FHM		16,008	68	40	52	CT8T		28	990,250	3044	37	133	(Op: H1NOA)						(Op: SM3CBR)																
*LY9A		A	3,155,273	2816	129	460	(Op: LY3BA)		309,760	990	37	123	SP4DGN		28	402,852	1113	37	140	S50A		A	4,622,800	3835	156	494	SM6DUA		26,865	193	36	105										
*LY6M		"	3,017,946	2737	144	482	(Op: LY1DS)		309,760	990	37	123	SP6AZT				SP5WA		216,512	762	34	102	(Op: DF4SA)						(Op: SM6U)													
*LY2FN		"	1,050,547	1360	101	362	SP2IU		61,464	269	25	79	SP3GEM	21	731,634	1985	40	143	CT1FJK	21	640,851	2114	37	133	S530	"	2,150,685	2350	127	410	SM5BUE	"	4,200	31	25	31	SM70MG	21	122,870	477	30	115
*LY2BF		"	696,510	1247	79	276	SP2HXY		3,626	112	12	37	SP2PIK	14	422,730	1402	37	117	CT1CJ	"	1,059,480	1451	98	338	S50K	"	88,908	383	30	94	SM2JEB	14	50,676	276	29	74						
*LY2DX		"	582,298	1080	76	283	SP5GRM	"	701,811	1887	40	147	SN2A		422,347	1493	37	114	CT1AOZ	28	34,596	149	30	94	SM6CDG	"	5,406	90	12	39												
*LY3IW		"	519,010	1005	83	272	SP2OU		180,765	755	31	104	(Op: SQ2EAK)		CT1FNT	"	32,832	326	19	57	S53AK	"	146,044	864	31	85	SM5CEU	3.5	126,381	951	21	82										
*LY20U		"	311,360	825	72	248	SP8RWW		180,765	755	31	104	CT1BVW	21	25,816	189	20	54	S57DX	7	555,012	1927	36	126	*SM5G	A	1,552,544	1714	98	380												
*LY3ID		"	178,360	352	69	176	SPN8R		180,765	755	31	104	(Op: SP8MI)		CT1DVG	3.5	1,404	63	6	30	S59CAB	3.5	207,252	1396	25	89	(Op: S53RM)	"	1,290,144	1505	96	357										
*LY3CY		"	133,331	453	39	148	SP2BLU		112,752	509	34	86	ROMANIA				S51NM	"	19,136	293	10	54	SM2I	"	809,532	1448	87	311														
*LY20M		28	86,310	351	30	96	SP2HXY		3,626	112	12	37	SP2PIK	14	422,730	1402	37	117	Y03FF	A	106,970	341	53	137	S50U	1.8	76,038	836	14	73	(Op: SM2EZ)											
*LY2AT		"	69,984	293	29	79	SP4DEU	7	75,285	537	23	82	SP9W		348,697	1218	36	121	Y04RHK	"	4,970	90	23	48	S51F	"	1,066,545	1555	95	316	SM6DER	"	690,690	1068	83	307						
*LY2MW		7	90,395	724	22	79	SP9W		161,262	1391	24	78	(Op: SP9HW)		YR4A	28	465,843	1853	35	112 <th data-cs="2" data-kind="parent">Y04RLP</th> <td>"</td> <td>2,019,402</td> <td>1794</td> <td>118</td> <td>440</td> <th data-cs="2" data-kind="parent">SM0BDS</th> <td>"</td> <td>385,285</td> <td>634</td> <td>70</td> <td>237</td>	Y04RLP	"	2,019,402	1794	118	440	SM0BDS	"	385,285	634	70	237										
*LY1CT		3.5	50,297	697	13	60	SP2HXY		183,337	418	12	62 <th data-cs="2" data-kind="parent">SP2QG</th> <td></td> <td>83,655</td> <td>660</td> <td>24</td> <td>75</td> <th data-cs="2" data-kind="parent">Y04H</th> <td>21</td> <td>29,920</td> <td>276</td> <td>22</td> <td>66</td> <th data-cs="2" data-kind="parent">S52AKAL</th> <td>"</td> <td>359,268</td> <td>981</td> <td>63</td> <td>219</td>	SP2QG		83,655	660	24	75	Y04H	21	29,920	276	22	66	S52AKAL	"	359,268	981	63	219												
*LY2HK		1.8	11,115	241	6	39	SP8BRQ	3.5	213,760	1203	26	102	SP2QG		161,262	1391	24	78	Y09FW	7	221,832	1336	29	88	S52AL	14	296,063	1397	35	114												
LUXEMBOURG		LX4B	28	343,940	1274	31	114	(Op: OH2PQO)		SP9W		183,337	418	12	62	Y02BEH	1.8	9,890	220	6	40	S52AR	14	296,063	1397	35	114	SM7MS	"	79,515	186	57	114									
*LX1JH		A	123,768	387	50	166	(Op: OH2PQO)		SP7JOA		33,374	418	12	62	Y02DH	"	337,866	627	77	251	S52AS	"	100	301	46	134	SM7GXR	"	68,448	303	43	141										
MACEDONIA		Z35M	A	1,251,778	1897	85	289	SP5GK		23,686	127	17	76	SP3KFH	1.8	27,440	517	9	47	Y06ADW	"	294,987	608	69	230	S52CW	"	52,930	597	17	62	SM7CWI	"	66,548	262	36	91					
Z32XX		28	328,185	1097	34	119	SP4ZD	A	1,540,136	1783	109	393	SP3KCL	"	1,248,274	1535	107	372	Y08RFS	"	202,400	636	54	199	SM0GRD	"	48,924	209	42	109												
Z37GBC		14	15,226	142	10	36	*SP3ZAF	A	126,868	1187	19	73	*SP3ZRS	28	2,494	33	11	16	Y04CIS	"	173,475	484	64	193	SM6AOU	"	22,748	78	50	71												
*Z37A		21	335,070	1568	30	105	*SP3ZAF	A	1,025,312	3031	38	141	*SP3ZRS	1.8	400	20	3	9	Y05DBS	"	44,520	975	25	80	SM6CRM	28	83,588	278	32	102												
*Z33A						MALTA				SP2FGO		578,733	878	89	290	SP5ASY		565,618	508	100	225	Y06BHN	"	948,460	1230	105	365	SM6CRM	"	83,588	278	32	102									
ERØND		A	1,644,132	1903	121	397	(Op: UT7ND)		SP2FGO		307,024	765	64	184	SP3JUN		307,024	765	64	184	Y07ADW	"	37,797	198	37	92	SPAIN	A	3,703,008	3577	123	421										
ER100		1.8	35,648	590	9	55	(Op: ER1LW)		SP3DIK		268,919	588	72	215	SP4DDP		260,864	683	53	203	Y08DPP	"	4,933	24	10	32	EA5FV	A	944,168	1301	92	336										
*ER6A		A	3,551,989	3759	129	428	(Op: ER1LW)		SP5GK		239,760	498	61	209	SP2DNI		47,255	997	75	250	Y09AGI	14	100,363	672	33	70	EA5YU	"	88,477	668	24	79										
*ER3AU		"	389,495	945	64	223	(Op: ER1LW)		SP5GK		221,706	473	66	152 <th data-cs="2" data-kind="parent">SP6ENJ</th> <td></td> <td>202,833</td> <td>511</td> <td>63</td> <td>216</td> <th data-cs="2" data-kind="parent">Y07AGI</th> <td>14</td> <td>103,866</td> <td>673</td> <td>28</td> <td>105</td> <th data-cs="2" data-kind="parent">*SM3CVM</th> <td>"</td> <td></td> <td></td> <td></td> <td></td>	SP6ENJ		202,833	511	63	216	Y07AGI	14	103,866	673	28	105	*SM3CVM	"														
*ER10M		28	38,606	247	27	70	(Op: ER1LW)		SP3VT		168,966	711	34	115	SP5ICS		161,385	456	51	152	Y07AGI	14	10,202	175	21	30	*SM3V	"	22,791	276	14	57										
*ER3DX		1.8	14,469	272	8	45	(Op: ER1LW)		SP5ICW		162,949	192	50	96	SP5HGS		180,268	483	52	190	Y07AGI	14	1,537	117	13	40	*SM3CRM	"	2,007,540	2120	130	457										
*PA5AT		3.5	44,957	624	10	57	(Op: ER1LW)		SP9Q		17,819	248	42	131 <th data-cs="2" data-kind="parent">SP9Q</th> <td></td> <td>17,819</td> <td>248</td> <td>42</td> <td>131</td> <th data-cs="2" data-kind="parent">Y07AGI</th> <td>14</td> <td>1,290,144</td> <td>871</td> <td>31</td> <td>102</td> <th data-cs="2" data-kind="parent">UKRAINE</th> <td>A</td> <td>2,167,452</td> <td>2158</td> <td>134</td> <td>430</td>	SP9Q		17,819	248	42	131	Y07AGI	14	1,290,144	871	31	102	UKRAINE	A	2,167,452	2158	134	430										
NORTHERN IRELAND		GI4KSH	A	108,783	391	34	119	(Op: GIØNWG)		SP2JHJ		16,910	100	37	52	SP9VEG		197,184	547	36	120	Y07AGI	28	1,290,085	3577	123	421	UV5U	A	2,167,452	2158	134	430									
GIØKOW		21	87,069	2562	40	139	(Op: GIØNWG)		SP7DBS		13,764	109	37	87	SP7DBS		9,132	97	22	60	Y07AGI	28	78,900	650	27	73	UY5ZZ	"	2,007,540	2120	130	457										
*GI4SNC		28	103,410	726	21	69	(Op: GIØKQV)		SP7DBS		1,120	14	14	14																												

*UU2JA	"	55,622	179	57	146	FED. STATES OF MICRONESIA		*PY2AER	"	435,072	873	59	133	DF1DV	"	104,618	406	48	133	RW3GB	"	270,240	899	33	127	
*UY5QJ	"	53,019	152	57	80	V63A	A 855,738 1359 90 144 (Op: JA7HMZ)	*PP7CW	"	93,830	257	46	104	DJ3GE	"	100,570	345	45	133	G4EDG	"	206,822	647	37	121	
*UT2Q0	"	48,807	223	44	109		GUAM		*PP7ZZ	"	80,478	341	49	104	JAC5DL	"	95,524	273	61	106	N6MU	"	191,088	471	34	110
*UT3UZ	"	43,090	201	34	105	KH2/		*PP2R0N	"	75,000	251	38	82	N9J	"	95,178	223	60	114	KH6/W8QZA	"	134,320	505	30	62	
*US0YA	"	32,665	117	50	89	KG4PPO	28 373,890 1439 30 73	*PY2GG	"	25,648	113	38	55	GM4HQF	"	93,934	369	30	104	RZ6HX	"	134,136	597	31	107	
*UT5UCP	"	21,660	111	35	60	HAWAII		*PY2PAI	"	10,146	74	24	33	AD4J	"	87,894	206	53	118	7K4QOK	"	112,750	404	31	79	
*UT4PZ	28	260,876	797	33	121	KH6TO	A 3,818,897 3682 138 253 (Op: KH6ND)	*PY3FOX	"	64	4	4	4	VE3XL	"	81,000	353	21	79	(Op: JR2BNF)						
*US2WU	"	139,608	401	37	131	NH7/N6C	28 298,634 1262 29 54	*PY4FQ	28	115,876	409	24	90	K4UK	"	80,908	204	53	126	BV3FG	"	98,070	536	28	77	
*UT4EO	"	93,728	448	27	89	KH7R	21 1,193,592 2568 38 126 (Op: KH6ND)	*PY7OJ	"	23,475	125	19	56	SS7NRO	"	80,136	376	43	116	LY1DT	"	85,068	542	26	76	
*UT5UML	"	7,238	84	17	30	AH60Z	14 75,072 339 32 64	*PY2NZR	"	1,606	57	11	42	F5IQJ	"	78,579	386	51	110	OH7FF	"	83,930	473	24	85	
*UR6QS	21	110,856	495	30	94	KH7U	7 354,240 1153 35 73	*PY2AW	"	1,100	21	6	14	WD4GBW	"	77,145	201	30	109	N7IR	"	78,122	266	28	78	
*UX5EF	"	73,294	379	27	87	KH7V	"	*PY4CY	"	135	5	4	5	WB8BB	"	67,222	251	29	93	RZ6HX	"	76,760	501	21	74	
*UT0H	"	55,438	420	27	79	KH7W	"	*PY2AP0	"	20,060	132	20	43	UR5FAI	"	63,114	385	24	110	SM5D	"	60,840	339	21	83	
(*UP: U1HT)						KH7X	"	*PY2PJT	14	31,339	184	20	57	OK1AIJ	"	61,919	187	56	87	(Op: SM5DZJ)						
*US1ITU	14	255,024	1081	35	119	KH7Y	"	*PY7AR	7	10	8	3	1	SN8A	"	60,264	198	50	112	G2HLU	"	43,775	291	17	68	
*UR6IJ	"	180,472	766	33	103	KH7Z	"	A 1,092	32	8	6							T940M	"	41,026	380	18	55			
*US1PM	"	139,482	684	30	93	KH7AA	"											JO1NGT	"	39,886	273	25	49			
*UR4LZA	"	137,326	799	31	88	KH7AB	"											S59AV	"	37,807	266	19	58			
(*UP: Y4U4L)						KH7AC	"											5F5BL	"	57,900	308	32	118			
*UT2AU	"	34,242	333	18	60	KH7AD	"											KG4HTT	"	53,504	203	42	110			
*UX7QD	"	30,861	290	21	60	KH7AE	"										VE7NI	"	46,731	220	50	61				
*UY5YA	"	21,663	172	22	65	KH7AF	"										K2J2T	"	45,555	303	56	159				
*UR5EU	"	11,832	112	15	53	KH7AG	"									Y0AAC	"	40,104	242	31	103					
*US50CT	7	48,330	376	19	71	KH7AH	"									JF3WN0	"	43,880	150	40	59					
*UT3OT	"	45,600	319	21	74	KH7AJ	"									W1CTN	"	6,084	78	14	38					
*US5MTJ	"	35,280	354	20	70	KH7AK	"									J6WYS	"	38,430	127	48	74					
*UR5FC	"	20,493	292	11	58	KH7AL	"									DK4CU	"	32,893	222	25	114					
*UT5PW	3.5	23,892	366	10	56	KH7AM	"									FN0F	"	32,670	124	32	67					
*UX5NQ	1.8	39,310	654	10	54	KH7AN	"									OK2ZAW	"	30,600	192	32	88					
						KH7AO	"									JN2SE	"	30,352	130	46	66					
						KH7AP	"									HB9DOZ	"	28,224	236	31	95					
						KH7AQ	"									Z3F	"	28,160	904	35	96					
						KH7AR	"									RW4LR	"	149,758	657	33	100					
						KH7AS	"									G4ELZ	"	131,300	632	30	100					
						KH7AT	"									UA4ANZ	"	24,892	135	33	94					
						KH7AU	"									N4J	"	122,493	379	33	100					
						KH7AV	"									YU1LM	"	105,444	630	27	89					
						KH7AW	"									OK1IF	"	95,593	578	28	81					
						KH7AX	"									US3QW	"	37,436	315	25	73					
						KH7AY	"									K7MM	"	36,763	168	29	68					
						KH7AZ	"									FM5CW	"	36,242	199	16	61					
						KH7BA	"									OK1DSA	"	35,866	336	15	64					
						KH7BB	"									WD3P	"	10,302	86	10	41					
						KH7BC	"									SP8JHM	"	21,150	46	11	97					
						KH7BD	"									K9WIS	"	21,645	110	37	80					
						KH7BE	"									RV9COI	"	20,276	107	17	57					
						KH7BF	"									KQ4YY	"	17,910	82	32	58					
						KH7BG	"									W2JEK	"	16,709	79	35	64					
						KH7BH	"									DL4GRB	"	15,493	106	18	38					
						KH7BH	"									UU4JO	"	15,331	111	28	61					
						KH7BH	"									DU9XB	"	14,784	115	22	26					
						KH7BH	"									NC3G4/	"	12,393	63	28	53					
						KH7BH	"									WE7G	"	12,168	127	39	39					
						KH7BH	"									EA7HCB	"	11,571	106	23	64					
						KH7BH	"									SM6A6U	"	10,045	97	11	35					
						KH7BH	"									DL8MTG	"	9,944	69	30	58					
						KH7BH	"									NZ2NJ	"	9,792	71	24	48					
						KH7BH	"									OK1DMP	"	8,532	49	32	47					
						KH7BH	"									DF9JZ	"	8,094	105	15	56					
						KH7BH	"									WC7S	"	7,696	85	34	40					
						KH7BH	"									OK2KFK	"	6,745	77	18	53					
						KH7BH	"									(Op: OK2ZAW)										
						KH7BH	"									K3PJK	"	5,145	72	14	35					
						KH7BH	"									SP4CLQ	"	4,560	177	25	70					
						KH7BH	"									KL7GN	"	4,557	154	18	75					
						KH7BH	"									KG4NXP	"	4,512	58	15	17					
						KH7BH	"									EA4OA	"	4,158	62	24	53					
						KH7BH	"									YH8MWV	"	3,827	39	21	22					
						KH7BH	"									YT7TY	"	1,178	22	13	18					
						KH7BH	"									KC8LTL	"	1,178	22	13	18					
						KH7BH	"									KA6SGT	"	1,166	81	26	27					
						KH7BH	"									W6WAT	"	1,166	81	26	27					
						KH7BH	"									RU4WT	"	1,166	25	14	21					
						KH7BH	"									UT3WWJ	"	1,250	43	8	28					
						KH7BH	"									Y09HG	"	1,172	60	10	30					
						KH7BH	"									K5DII	"	1,153	62	24	54					
						KH7BH	"									Y68A	"	100	119	49	70					
						KH7BH	"									UN4L	"	10,528	97	19	28					
						KH7BH	"									9A2EY	"	4,981	314	12	50					
						KH7BH	"									OM3THV	"	19,985	355	6	51					
						KH7BH	"									KH3MM	"	12,593	267	5	44					
						KH7BH	"									KH6SQ	"	9,174	99	11	10					
						KH7BH	"									S57LWG	"	221	17	3	10					
						KH7BH	"									OK2BUZ	"	7,120	197	5	35					
						KH7BH	"									Y6Y0A	"	6,831	158	6	17					
						KH7BH	"									T99T	"</									

N1NOD	1,440	16	16	16	W6KC	66,303	191	53	86	EUROPE	AUSTRIA	IRELAND	W3LJ	643,200	668	95	307		
WA1FCN	21	190,990	512	30	112	K6XC	49,420	134	51	89	OE1A	A 2,415,876 2292 144 510 (Op: OE1EMS)	E14DW	A 453,789 655 81 262	K4XS	8,993,439	4031	185	634
W2UP	A 4,914,343	2621	152	525	KC6T	11,557	76	35	56	OE3GSA	" 536,739 810 113 314	W4AN	7,736,256	3768	181	611			
K2NG	" 4,768,500	2336	165	583	K6ACZ	5,880	69	29	31	OE1TKW	" 28,435 120 44 77	K4JA	7,428,048	3324	177	639			
N2MM	" 3,849,480	2204	165	516	N6IC	100	36	0	0	OE5OHO	21 60,996 258 23 69	N4TO	6,106,968	3009	172	584			
K2DM	" 3,280,320	1989	138	465	K6BIM	28 248,250	635	35	115	OE3ZK	14 294,786 1210 39 120	K4NNN	5,696,920	3007	167	563			
N2ED	" 2,590,258	1799	126	436	K6TA	7 116,676	373	34	92		IR2K	" 316,848 783 74 213	W4MR	3,840,872	2234	143	498		
N1EU/2	" 2,584,217	1433	146	497	W7UT	A 1,855,920	1338	145	383		IO2A	" 226,968 686 55 141	K5TR	4,980,646	2694	173	564		
W2WB	" 2,402,582	1514	140	474	N7FO	" 1,136,622	830	145	376	(Op: KN5H)		AA5NT	2,930,760	1923	156	474			
N02R	" 2,210,625	1309	137	488	NX7K	" 710,964	855	108	240	OT1A	" 1,097,911 1285 123 370	N5KA	446,557	740	107	254			
W2EN	" 2,125,776	1451	121	415	W7OM	" 421,587	564	106	231	ON4AEK	" 134,487 1088 33 120	W5IBM	72,864	210	61	123			
AB2E	" 1,625,092	1165	112	396	W7BX	" 277,816	419	158	157	OT1L	7 389,774 1637 35 119								
N3RG/2	" 1,487,300	1125	114	421	W7MCU	" 110,432	210	86	138	ON4ATW	3.5 116,280 890 21 81	K6ZM	2,998,763	2184	148	393			
K2NJ	" 999,617	789	111	352	K7LJ	" 108,256	69	113	130	ON4WW	1.8 81,171 824 15 72	W6TER	595,998	735	105	246			
W2LE	" 982,839	821	98	331	N7FA	" 36,531	109	46	77	Y8L8M	A 3,746,800 2767 156 569	N6VR	230,364	329	111	205			
N2SS	" 919,055	722	103	360	N7FQ	" 28 138,635	436	32	87	Y2LY	" 1,233,664 1487 107 381	W6YRA	59,451	275	53	96			
K2RW	" 825,360	699	102	354	WJ7R	" 16,416	106	21	33	Y9W	21 686,154 1882 40 146	K7ZUM	986,328	1146	119	223			
K2RD	" 764,544	549	131	412	W7CT	21 265,060	702	34	111	(Op: YL3DW)		W7VJ	556,950	779	99	183			
K2XF	" 752,346	653	93	348							NG7Z	184,800	387	82	138				
N2FF	" 630,000	585	90	330															
N2TK	" 556,597	441	112	381															
W2RD	" 475,020	443	105	315															
KD2P	" 463,680	536	72	248															
W2YK	" 417,375	478	86	285															
K2SB	" 354,299	401	82	259															
K2MP	" 252,476	391	59	195															
N2UM	" 145,908	232	75	177															
W2RDS	" 97,610	190	49	166															
WB2TPS	" 53,508	139	43	113															
NJ2DX	" 35,632	108	35	101															
AB2DE	" 31,330	116	43	87															
K3WW	A 5,730,417	2998	159	534															
AA1AK/3	" 3,794,703	2196	149	500															
N3RR	" 3,303,450	1816	154	521															
KQ3F	" 3,128,544	2009	129	439															
W3FV	" 2,982,625	1994	124	411															
K3PH	" 2,542,482	1537	133	458															
W1GD/3	" 2,321,585	1402	130	457															
N3AM	" 1,987,150	1318	123	427															
K3NZ	" 1,829,516	1156	141	463															
K3ND	" 1,637,106	1062	128	434															
K3OO	" 1,535,328	1279	106	326															
K3DI	" 1,375,920	995	118	402															
K3SV	" 1,204,976	866	115	393															
W3AP	" 1,165,090	1160	105	338															
W3OV	" 1,110,054	1030	99	318															
N3DL	" 1,071,248	731	128	440															
WT3P	" 1,000,450	861	89	336															
N3NA	" 989,664	878	96	320															
K3JG	" 948,290	827	99	335															
KB3MM	" 826,758	740	89	325															
W3ZJ	" 762,966	697	86	312															
W3HVO	" 728,160	632	114	378															
KF3B	" 726,869	975	79	220															
W3EK	" 702,464	682	108	340															
N3ZA	" 501,584	582	82	286															
N3QQ	" 498,316	507	77	287															
NG3K	" 396,576	509	68	220															
K3CP	" 380,144	394	89	279															
K3PP	" 162,554	222	76	200															
W3BG	" 152,375	244	75	190															
WT3W	" 126,284	237	62	179															
K3SX	" 126,280	273	61	144															
NB3I	" 37,465	181	38	89															
K3FH	" 26,775	98	38	67															
WR3L	21 157,534	411	32	114															
W3BP	7 77,478	261	22	89															
K1PT/4	A 3,600,390	2180	147	498															
W4WA	" 1,875,338	3119	153	493															
K3KO/4	" 1,580,708	1051	127	429															
N4WW	" 913,260	711	122	369															
N4DW	" 875,075	744	98	327															
K4PB	" 818,120	688	113	339															
N4VW	" 792,540	704	108	312															
K4GMH	" 450,790	708	71	234															
AA4GA	" 290,043	318	80	253															
K4YT	" 185,856	283	79	185															
W4ATL	" 94,482	194	45	136															
K4CY/4	" 55,848	153	50	129															
KE1F/4	" 23,842	117	47	84															
W4WNT	" 13,736	70	38	63															
KW4CW	28 205,764	497	35	121															
K4WW	" 28,490	154	20	54															
K5NA	A 3,131,700	1636	170	545															
AD5Q	" 2,175,120	1585	139	391															
W5GN	" 974,792	921	99	313															
WQ5W	" 810,858	728	118	329															
AB5K	" 763,008	789	96	288															
N5JR	" 721,764	729	84	285															
K5LP	" 451,777	499	103	264															
W5FL	" 313,866	354	95	276															
AF5Z	" 271,185	351	97	206															
N3BB/5	" 102,128	181	71	137															
NA4M/5	" 51,972	146	35	107															
N5MT	" 14,245	76	29	48															
W5ZD	28 173,700	554	34	116															
W5FO	14 95,493	289	38	101															
N6IG	A 3,537,512	2011	175	496															
N6CW	" 1,105,315	838	139	346															
K6XT	" 717,060	636	119	325					</td										



Sergio, LU7YS, took the top spot Single Op, High Power, 21 MHz in Argentina.

OK1KAO	815,262	1350	94	319	SP9KRT	629,748	1129	101	340	NY4A	10,609,911	5431	172	595	FINLAND				
OK2KOD	688,860	1018	98	332	SP3KPN	47,946	214	38	129	K1TTT	9,081,895	4823	166	589	OH2U	15,382,160	9020	199	741
M2A	3,505,677	4035	142	537	YP3A	4,526,756	4516	149	513	K8CC	8,061,618	4227	172	581	OH2K	600,457	1014	77	246
RM6A	6,072,143	4083	191	656	OM8A	9,268,980	5215	184	686	K1RX	8,049,750	4282	163	587	DF0HQ	18,071,850	10581	203	747
R13A	3,310,416	3354	136	446	OM7M	8,302,320	4687	193	694	W3PP	7,971,952	4298	168	584	HG6N	12,664,938	8961	186	672
RZ1AWO	2,700,578	2477	139	508	OM3A	6,683,110	4210	176	629	W4MYA	7,737,756	4060	171	601	K5GO	6,320,916	3454	174	582
R14M	2,558,746	2512	146	527	S52Z	4,535,685	3226	151	542	K9RF	7,702,200	4043	184	594	KB1H	6,103,300	3489	156	544
RK4WWA	2,170,335	2400	137	478	S59ABC	3,269,538	3326	135	438	N4RV	5,977,047	3136	160	559	W0AIH	5,302,729	3176	166	537
RZ4AWR	2,026,643	2358	127	411	S560	2,239,979	2534	116	381	K3II	4,284,297	2581	149	508	K2CG	4,202,708	2337	148	505
RX3RX	1,911,393	2539	136	429	EA5KM	2,644,213	3031	119	414	W8ZA	3,413,901	2107	134	459	W1HR	3,042,094	1946	130	453
RW3WWW	1,367,820	2060	109	350	ED7TST	1,791,153	3343	86	265	N7DR/Ø	2,213,610	1406	151	430	ZL6QH	4,748,230	3762	144	313
RU6LWT	1,336,087	2225	109	358	SK3W	6,350,888	4050	172	636	NHØS	8,542,360	4919	169	451	VE3DC	3,471,300	2588	133	437
RN3AY	1,194,496	1636	118	394	SKOCC	1,526,616	1672	113	391	YE1ZTC	377,501	821	75	152	VE7SV	3,226,610	3344	152	306
RK3WVA	1,112,004	1692	114	360	SL2ZA	366,912	840	79	257	ZL6QH	4,748,230	3762	144	313	VE2FU	826,590	2712	92	262
RK6AYN	878,636	1403	94	324	SI9AM	264,614	790	58	229	J3A	23,133,600	12563	184	616	GRENADA	23,133,600	12563	184	616
RK3MZ	211,184	614	58	210	SWEDEN	2,299,374	2841	126	413	LU8XW	296,670	840	48	97	AFRICA	1,440,234	2155	94	264
RK4FWX	170,040	502	61	199	HB9A	2,299,374	2841	126	413	XT2DX	36,947,232	15560	187	677	BURKINA FASO	1,440,234	2155	94	264
RK3DZD	115,478	573	45	136	HB9OK	810,225	2088	63	214	PT0F	11,702,266	6834	153	513	CHAGOS ISLANDS	3,471,300	2588	133	437
OH7M	4,293,242	2788	166	607	FRANCE	3,418,129	3879	125	458	PY4NQ	2,681,124	2884	101	272	JA3YBK	12,163,806	6365	192	570
OH6MSZ	1,362,456	1731	134	462	UKRAINE	3,727,496	2973	164	552	ZX3S	593,541	1475	70	177	JA5BJC	11,686,311	6001	187	564
TM5C	8,926,542	5356	176	641	UR4PWC	153,819	564	44	167	ZY2Y	13,494	133	18	21	JA1YPA	1,533,010	1545	133	282
TM2Y	6,823,485	4507	171	624	UR4LWY	92,117	238	83	168	PT2CM	5,400	104	32	68	JA3YWW	1,728	23	13	19
TM0DX	3,115,980	3214	139	491	UR8IXX	100	124	22	64	FERNANDO DE NORONHA	1,715,283	2009	109	350	ASIA	1,715,283	2009	109	350
F6ENO	1,009,846	1730	105	317	WALES	3,418,129	3879	125	458	PJ2T	10,109,968	5506	155	527	JAPAN	1,715,283	2009	109	350
F6KJX	378,421	1049	58	189	YUGOSLAVIA	1,065,036	1625	89	320	OL7W	9,511,865	6770	173	642	NETHERLANDS ANTILLES	1,065,036	1625	89	320
GERMANY	4,623,183	3179	160	587	WYU2I	285,420	946	63	205	OK5BT	5,547,096	4555	157	575	PERU	1,276,800	1698	83	197
DL1QW	4,232,800	2881	160	580	YU1INO	11,915,522	5651	191	647	OA4DKC	1,645	50	9	26	OL5W	1,276,800	1698	83	197
DK5QN	4,232,800	2881	160	580	YT1Z	11,915,522	5651	191	647	YU1INO	11,915,522	5651	191	647	DENMARK	1,276,800	1698	83	197
DK4WA	3,380,480	2907	151	544	W3LPL	15,686,595	6965	196	691	ES9C	13,946,796	9618	191	685	ESTONIA	1,276,800	1698	83	197
DL7ANR	2,659,996	2230	150	517	W9NS	11,915,522	5651	191	647	RK3DZD	17,108,421	10116	203	730	EUROPE	17,108,421	10116	203	730
DF0CI	2,428,174	2021	151	540	W2RNM	14,400,585	6549	183	654	RU1A	17,108,421	10116	203	730	CZECH REPUBLIC	17,108,421	10116	203	730
DK0MN	1,959,200	2340	104	393	W9NS	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	MULTI-OPERATOR	17,108,421	10116	203	730
DJ9MH	1,558,994	1530	126	475	W3LPL	15,686,595	6965	196	691	RU1A	17,108,421	10116	203	730	MULTI-TRANSMITTER	17,108,421	10116	203	730
DL0IT	650,560	1137	90	290	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	NORTH AMERICA	17,108,421	10116	203	730
DF0RF	380,835	643	109	346	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	UNITED STATES	17,108,421	10116	203	730
GREECE	216	23	4	14	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	YUGOSLAVIA	17,108,421	10116	203	730
SW1R	216	23	4	14	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	AUSTRALIA	17,108,421	10116	203	730
HUNGARY	9,979,570	5618	194	696	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	OCEANIA	17,108,421	10116	203	730
HG1S	9,701,340	1769	113	401	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	EUROPEAN RUSSIA	17,108,421	10116	203	730
HA1BC	1,087,410	1682	95	307	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
HA6KZS	156,636	485	60	168	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
ITALY	8,187,885	4428	188	691	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
IO4A	5,935,104	4201	160	576	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
IO4T	5,849,928	3969	159	597	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
IU2M	4,523,776	3508	149	507	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
IU1H	4,448,376	3374	162	582	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
YU1YK	2,932,636	2725	154	553	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
LUXEMBOURG	7,669,536	5078	170	638	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
YU1YK	1,915,544	2149	121	475	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
YU1YK	843,608	1305	91	345	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
LITHUANIA	2,932,636	2725	154	553	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
YU1YK	2,932,636	2725	154	553	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
NETHERLANDS	2,766,034	2808	137	485	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
PI4ZLD	1,964,050	2326	119	431	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
PB6X	1,457,260	2111	99	391	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
POLAND	6,001,984	3839	166	598	YU1INO	11,915,522	5651	191	647	RU1A	17,108,421	10116	203	730	RU1A	17,108,421	10116	203	730
SO6Z	2,901,326	2935	133	409	YU1INO	11,915,522	5651												