

Results of the 2009 CQ WW DX SSB Contest

BY BOB COX,* K3EST

Expanded Results on the Web

Editor's Note: Having more than 6000 logs submitted for the CQ WW SSB Contest is wonderful, but it does put a squeeze on space. In order to assure that the efforts of all entrants are recognized through the publication of complete line scores, certain other elements of our contest reporting have been moved to the CQ website. Please visit the CQWW DX Contest page on the CQ website (follow the links from <www.cq-amateur-radio.com>) for QRM, expanded top scores listings, and more. And thanks for being part of the world's largest participation sporting event!—W2VU

The 2009 CQ WW DX SSB Contest was a welcome surprise. After a sun stuck with no sunspots for more than a year, the CQ WW brought its own sunspots to the party; the bands came to life. As usual, the CQ WW SSB is better than 100 sunspots. Stations from all over the world were on the air: I enjoyed the weekend" (IK2MLS); "With a solar flux index of 76 the contest stood under good stars this year. The bands were burning! The propagation held me in my shack" (DF5LR); "Wonderful 10m opening from sunset to sunrise during the two days of this contest" (F5RD).

As has been mentioned before, the CQ WW is a fantastic competition which brings out the best in amateur radio: teamwork, station construction, antenna design, propagation knowledge, and operating skills. Just turn on your radio and you can join in the fun. Once you listen to the bands during the CQ WW, you will be hooked. You can be guaranteed to have a good time. The CQ WW is a celebration of ham radio skill and effort. New and experienced hams who try the CQ WW become addicted. After all the logs were counted, an amazing number emerged: 6065 received entries. Below are presented the results of many of the efforts.

A yearly reminder: If you want to know how long it is until the 2010 CQ WW SSB test, check out the website of OT5A: <<http://www.on7lr.org>>. Read on to see how you and your friends ended up. Everyone who operated the CQ WW in 2009 was a winner and had a chance for great fun.

High Power, All Band

The top spot in this difficult category went to an operator familiar with winning the CQ WW. Rich, N6KT, put his considerable skill to work talking HC8A to the world high score. HC8A sits on the side of a dormant volcano on San Cristobal Island, and Rich took full advantage of the location and propagation to find the path to top honors. Second place world was Jim, W7EJ, operating from CN2R. Third place world again went to several-time world winner Tom, W2SC, operating 8P5A from beautiful Barbados. Taking first place in Europe and fourth in the world was Tonno, ES5TV, operating from super station 4O3A. Just a few QSOs behind, placing second place in Europe and fifth in the world, was Jukka, OH2UA, operating from CR2X. From Slovenia, Tine, S50A, took his station to third place in Europe. Krassy, K1LZ, did a fabulous job and took top U.S. honors! What a great job and score. Doug, K1DG, took U.S. second place from Long Island, Maine. Ken, K4ZW, took third place from his countryside QTH in Virginia. Other worthy efforts from propagationally challenged areas which should be mentioned were those of DU1BP, VK4CZ, EX8MAT, XV1X, YC9MDX, 9M8Z, JT1ZO, UN9L, UN7MMM, A61C, VU2PAI, HS0ZEE, and XU7FMZ. The continental winners were: North America: 8P5A (W2SC), Africa: CN2R (W7EJ), Asia: RC9O (UA9PC), Europe: 4O3A (ES5TV), Oceania: KH7XS, South America: HC8A (N6KT), Japan: JA0JHA, U.S.: K1LZ.

Low Power, All Band

To enter the low power category all you need is a transceiver and an antenna. You will be surprised at what you can work with 100 watts.



Doug, K4LY, finished #1 QRP USA.

Running low power places you in the most popular contesting category. For this reason, to make the Top Scores box really means something. It is a real challenge.

Operating from beautiful Aruba, John, KK9A, operating as P40A, again took away the top world low power trophy. Five years in a row is quite an achievement! World second place went to Sébastien, F8IVJ, using his contest call, 6V7Q, while on his honeymoon! Third place in the world and number one in Asia was taken by 7Z1SJ operated by Sulaiman; a great job from Saudi Arabia! LY9A operated by Gediminas, LY3BA, took first place in Europe. Gediminas's efforts always place him near the top. This time he took top honors. Congratulations! Second place Europe went to low power champion Marius, YO3CZW. Taking Europe third place was Franc, S51F, operating from the sunny side of the Alps. In the U.S., we had a repeat winner from 2008, Art, K1BX. Great operating, Art! Second place went to Ed, N1UR. Third place U.S. went to John, N8AA, from southwest Ohio. BD1TCC, 4L1FP, VR2ZQZ, VR2PX, JY5CC, JY4NE, A41MX, HS0ZHC, HS0ZCW, UK9AA, FO8RZ, A31KK, KH0/JK2VOC, and DV1JM all had excellent scores from interesting locations. The continental winners were: North America: K1BX, Africa: 6V7Q (F8IVJ), Asia: 7Z1SJ, Europe: LY9A (LY3BA), Oceania: KH0/JK2VOC, South America: P40A (KK9A), Japan: JH3CUL, U.S.: K1BX.

QRP

The QRP category sharpens your tuning skills and the rewards are very satisfying. You can work a lot of stations with 5 watts or less. It is interesting to note that QRP stations range from a few milliwatts to 5 watts, which is quite a power difference! Our world winner this time was Dmitry, RX1CQ, operating from his station just north of St. Petersburg, Russia. Long-time QRP'er Douglass, K4LY, took second place world and first place U.S. from northwestern South Carolina. Third place world and number two Europe was Norbert, DK1YY. Second in the U.S. was Chris, KA1LMR, and taking third in the U.S. by repeating a top score west of New Jersey was Philip, N0KE. Third place in Europe went to Angel, EA3FF. Special mention must be made of the fine score of Izuno-san, JR4DAH, #11 in the world and #1 in Asia. The top zone 3 scorer was Bill, W8QZA, operating W6QU. He was followed closely by Randal, ND0C. JA2MWV, VK4ATH, PY2BN, JG4AKL, and 9M6/W8AY (RA3AD) are to be congratulated for their outstanding efforts. The continental winners were: North America: K4LY, Africa: (no entry), Asia: JR4DAH,

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Europe: RX1CQ, Oceania: VK4ATH, South America: PY2BN, Japan: JR4DAH, U.S.: K4LY.

Assisted

"I worked assisted and I spent too much time chasing DX-cluster spots; I have lots of multipliers but at least 500 less QSOs. Difficult to break, at times, the big pile-ups on cluster

spots" (9A2EU). It takes a lot of discipline to achieve a good balance between chasing packet spots and running stations. The top scoring stations know how to do it just right. A reminder: use of *any* QSO spotting tool places you in the assisted category. The use of any Skimmer either internally or externally also places you in the assisted category.

The top assisted score in the world came from ER4DX operated by Sergey, UT5UDX.

Great job, Sergey! Second place world and number one in Asia was RG9A operated by Yuri, UA9AM. Third place world and second in Europe went to CR6K, the contest call of Felipe, CT1ILT. Third place in Europe went to Daniel, E73M. First place in the U.S. was taken by Gene, W3UA/1, operating from New Hampshire. Second place went to Charles, K3WW, who never ceases to amaze everyone by his dedication to the assisted category. Third place

TROPHY WINNERS AND DONORS

SINGLE OPERATOR
World All Band
HC8A (Opr.: Richard Smith, N6KT)
Donor: Southern California DX Club
World Low Power
P4\$A (Opr.: John Bayne, KK9A)
Donor: Slovenian Contest Club
World QRP
Dmitry A. Sokolov, RX1CQ
Donor: Jeff Steinman, N5TJ
World Assisted
ER4DX (Opr.: Sergey S. Rebrov, UT5UDX)
Donor: Glenn Johnson, W0GJ
U.S.A.
Krassy Petkov, K1LZ
Donor: Potomac Valley R.C. – KC8C Memorial
U.S.A. Low Power
Arthur Hambleton, K1BX
Donor: North Coast Contesters
U.S.A. QRP
Douglass Allen, K4LY
Donor: Pat Collins, N8VV
U.S.A. Assisted
Gene Shablygin, W3UA/1
Donor: John Rodgers, WE3C
U.S.A. Zone 3
Mitch Mason, K7RL
Donor: Dave Pruett, K8CC & Greg Surma, K8GL
U.S.A. Zone 4
Mike Wetzel, W9RE
Donor: Dave Pruett, K8CC & Greg Surma, K8GL
Canada
VC3O (Opr.: Ron Vander Kraats, VE3AT)
Donor: Contest Club Ontario
VE3WT Memorial
Caribbean/C.A.
8P5A (Opr.: Thomas Georgens, W2SC)
Donor: Alex M. Kasevich, W1CDD
Europe
4O3A (Opr.: Tonno Vahk, ES5TV)
Donor: Potomac Valley R.C. – W4BVV Memorial
Europe Low Power
LY9A (Opr.: Gediminas Lucinskas, LY3BA)
Donor: Scott Jones, N3RA & Tim Duffy, K3LR
Russia
Anatoly Yu. Medvedev, UA4WKW*
Donor: Roman Thomas, RZ3AA
Africa
CN2R (Opr.: James Sullivan, W7EJ)
Donor: CQ magazine
Asia
RC9O (Opr.: Anatoly Polevik, UA9PC)
Donor: CQ magazine
Japan
Akira Minagawa, JH0JHA
Donor: Tack Kumagai, JE1CKA
Japan Low Power
Eiji Souno, JH3CUL
Donor: Western Washington DX Club
Oceania
KH7XS (Opr.: Wilbert E Kollenbaum, K4XS)
Donor: Northern California DX Club
South America
PZ5M (Opr.: Michael Kasrich, AJ9C)*
Donor: Yankee Clipper Contest Club
SINGLE OPERATOR, SINGLE BAND
World – 28 MHz
Juan Manuel Morandi, LU1HF
Donor: Joel Chalmers, KG6DX
World – 21 MHz
ZX5J (Opr.: Sergio Almeida, PP5JR)
Donor: Robert Naumann, W5OV
World – 14 MHz
D44AC (Opr.: Luca Aliprandi, IK2NCJ)
Donor: North Jersey DX Assn. – K2HLB Memorial

World – 7 MHz
UP0L (Opr.: Vladimir Vinichenko, UN9LW)
Donor: Fred Laun, K3ZO – K7ZZ Memorial
World – 3.7 MHz
Jeffrey T. Briggs, VY2ZM
Donor: Fred Capossela, K6SSS
World – 1.8 MHz
E17M (Opr.: Dmitrij Pavlov, LY3MM)
Donor: CQ magazine
USA – 28 MHz
Charles Dietz, W5PR
Donor: Donald Thomas, N6DT
USA – 21 MHz
Victor Walz, N2PP
Donor: 11PM Dayton Pizza Gang
USA – 14 MHz
Jerry Rosalius, WB9Z
Donor: Yankee Clipper Contest Club -
KC1F Memorial
USA – 7 MHz
Daniel Handa, W7WA
Donor: Stanley Cohen, W8QDQ
USA – 3.7 MHz
Joseph Gagliardi, Jr, AA1BU
Donor: CQ magazine
USA – 1.8 MHz
Manuel Fonseca, Jr., W2MF
Donor: Glenn Johnson, W0GJ
Carib./C.A. (21 MHz)
Jean-Pierre Lauwereys, P43A
Donor: Nate Moreschi, N4YDU
Europe – 28 MHz
Emil Tafro, E71A
Donor: Charles Dietz, W5PR
Europe – 21 MHz
Suad Zukic, E77XZ
Donor: Tine Brajnik, S50A
Europe – 14 MHz
RZ3AXX (Opr.: Vladimir Umanets, UA9BA)
Donor: Charles Wooten, NF4A
Europe – 7 MHz
YT8A (Opr.: Ceha Dusan-Dule, YU1EA)
Donor: John Warren, NT5C
Europe – 3.7 MHz
GI5K (Opr.: Chris Smith, M10LLL)
Donor: Ted Demopoulos, KT1V
Europe – 1.8 MHz
Viesturs Jakovlevs, YL2SM*
Donor: Robert Kasca, S53R
Oceania (7 MHz)
Dusko Dumanovic, ZL3A
Donor: Bruce D. Lee, KD6WW
Asia – 14 MHz
9K2K (Opr.: Abdallah Hamad Al-Muzayan, 9K2GS)
Donor: Charles Shinn, W7MAP
Japan – 14 MHz
Akira Asai, JA8RWU
Donor: Take Yokoyama, JL1BLW
MULTI-OPERATOR, SINGLE TRANSMITTER
World
CN3A (Oprs.: IK2QEI, IK2SGC, IK1RQT, IK1SPR,
I22FFK, I2WIJ, IK1HJS, IV3ZXQ, CN8WW, CN8WK)
Donor: So. Calif. DX Club – W6AM Memorial
U.S.A.
W3BGN (Oprs.: W3BGN, K2TW)
Donor: Carolina DX Association
Carib./C.A.
VP5DX (Oprs.: N4KE, AB4UF, N4EPD,
NW4C, NU4Y)
Donor: Bob Raymond, WA1Z
Africa
CR3A (Oprs.: CT3BD, CT3DL, CT3DZ, CT3EE,
CT3EN, CT3IA, CT3KU, CT3KY, CT3NT, CT4NH)*
Donor: Doc Sayre, W7EW

Asia
P33W (Oprs.: UR0MC, RW3QC, RA6LBS,
UA2FZ, RX3DCX, RW4WR, RA3AUU)
Donor: Edward L. Campbell, NX7TT
AA6BB and KA6V Memorial
Japan
JH4UYB (Oprs.: JH4UYB, JA1FXR)
Donor: Bob Epstein, K8IA
Europe
TM6M (Oprs.: F1AKK, F4DXW, F4ELK, F5TTU,
F8DBF)
Donor: Bob Cox, K3EST
Oceania
AH2R (Oprs.: JI3ERV, JR7OMD, JH7QXJ)
Donor: Junichi Tanaka, JH4RHF
South America
FY5YE (Oprs.: F1HAR, F5HRY, F6FGZ,
F6FVY, F8CMF, FY5FY)
Donor: Victor Burns, K16IM –
The Cuba Libra Contest Club
MULTI-OPERATOR, TWO TRANSMITTERS
World
AO8A (Oprs.: EA8AH, EA8CAC, EA8ZS, EA5DY,
OH1MA, OH3RB, OH5XT, OH6RX)
Donor: Array Solutions
U.S.A.
WE3C (Oprs.: WE3C, N3RD, NN3Q, KQ3V,
KQ3F, K3CT)
Donor: Kimo Chun, KH7U & Mike Gibson, KH6ND
Dan Robbins, KL7Y Memorial
Europe
IR4X (Oprs.: I4TJE, I4VEQ, I4EAT, I4IKW,
I4AVG, IK4DCT, IZ3EYZ, IK4AUU, IW2MJQ,
IZ2FDU)
Donor: Aki Nagi, JA5DQH
Oceania
AH\$SBT (Oprs.: 7L1FPU, JE1NDE, JG7PSJ,
J15RPT, AH0BM)
Donor: Japan CQ Ham Radio
MULTI-OPERATOR, MULTI-TRANSMITTER
World
PJ2T (Oprs.: W0CG, G3NKC, G4XUM, WA4PGM,
K6AM, K8LEE, W9JUV, N0VD, N0YY)
Donor: Dave Leeson, W6NL and Barb Leeson, K6BL
U.S.A.
K3LR (Oprs.: K3LR, N2NC, N2NT, K6AW,
W3TX, W2RQ, K8GL, IK2YCW, K3LA, K1AR,
N6MJ, K3UA, DL6LAU, LU7DW, N3GJ, LW8EXF)
Donor: Jim Lawson, W2PV Memorial
Europe
DR1A (Oprs.: DB6JG, DF6JC, DJ1YFK,
DJ6ET, DJ7EG, DJ7EO, DK2CX, DK5TX,
DK6WL, DL1MGB, DL3DXX, DL6FBL, DL8WPX,
DL9DRA, DO2WW, PA1TX, SV2KBS)
Donor: Finnish Amateur Radio League
Japan
JR5VHU (Oprs.: JR5VHU, JM1UWB, JA5FDJ,
JA5JCC, JH5FIS, JH5RXS, JR5JQA, JR5PWW,
J6WVYS, JK6RIP)
Donor: Masahiro Kitagawa, JH3PRR
CONTEST EXPEDITIONS
World Single Operator
HT2N (Opr.: Michael Tessmer, K9NW)
Donor: National Capitol DX Assn.
Stuart Meyer, W2GHK Memorial
World Multi-Single
4U1ITU (Oprs.: RW3AH, SV3SJ)
Donor: Gail Sheehan, K2RED
World Multi-Multi
SU1KM (Oprs.: SU1KM Team)
Donor: CQ magazine

*Second place

in the U.S. went to Bill, N4LA, in North Carolina. The efforts of some good multipliers—BD5BAJ, 5B/G3RXQ, KG6DX, ZK2DL, VR2YYW, UP4L, 9M6/JJ2CJB, IG9R, and IG9S—put a lot of QSOs in contester's logs. The continental winners were: North America: V31MW (N0HJZ), Africa: ZS4U, Asia: RG9A (UA9AM), Europe: ER4DX (UT5UDX), Oceania: KG6DX, South America: ZX2B (PY2MNL), Japan: JH1NBN, U.S.: W3UA/1.

Multi-Single

The top three winners from 2008 repeated their positions in the 2009 competition. They say three times is a charm. CN3A took world first place for three years in a row. The team from CN3A has everyone else chasing their efforts. What a great job they did. Reprising their second place world finish from last year was P33W. A team from the Radio Amateur Club of Kourou, operating as FY5YE on the French Guyana coast, came in third place. They summed up what many contesters thought when they said, "Conditions were a lot better than last year, especially on 10m, where we had a very good EU opening on Sunday, and a rather good one to NA." Most multi-single operations take place in Europe. This year there were 173 different teams who put in a lot of hard work to have fun in the contest. Doing a fine job and taking the top position was radio club F6KHM using its

club call, TM6M. Second place went to the Bosnia and Hercegovina contest team of E7DX. Third place in Europe again went to the Salgotarjani Varosi Radio Klub, HG6N.

A MS team from the Frankford Radio Club, W3BGN, took advantage of the good conditions to beat back a challenge from the Potomac Valley Radio Club's K3EST/4. Just a few QSOs separated the two scores. Not far behind but about 2300 miles farther west was the marvelous effort of N2IC/5. N1MM/6 took top honors from the U.S. West Coast. Outstanding performances were turned in by many teams. Some of the rarer ones appearing in many logs were: 3DA0WW, AH2R, EK8WA, TS9A, TC7KA, B7P, A73A, A47RS, 9K2HN, HS0AC, VR2C, YE0X, and 4L0A. The continental winners were: North America: VE3EJ, Africa: CN3A, Asia: P33W, Europe: TM6M, Oceania: AH2R, South America: FY5KE, Japan: JH4UYB, U.S.: W3BGN.

Multi-Two

The Multi-Two category needs two stations manned nearly all the time, and stations have to move skillfully and smoothly as the propagation changes. The AO8A team operating from Gran Canaria proved they could do it three wins in a row. Pekka's (OH1RY) international group finished #1 in the world. Another zone 33 team, EE9Z, rose to the occasion by taking sec-



Phil, FO8RZ, gave out a new one to many.

ond place in the world. Jorge, EA9LZ, mentioned that all the money collected from direct QSL to EE9Z is donated to an orphanage located in Tangier, CN. Third place in the world and first place in Europe went to IR4X. They have been having a good time on a mountaintop near Bologna for a very long time. As mentioned above, IR4X took top European honors. Second place in Europe went to OL4A. Their operation takes place from Brezina. Here you can find also 8 towers at heights from 13m to 52m. Third place in Europe went to Radio Club Varazdin, 9A7A. Making them the M2 team to

TOP SCORES

WORLD SINGLE OPERATOR		UNITED STATES SINGLE OPERATOR		EUROPE SINGLE OPERATOR	
All Band		All Band		All Band	
HC8A	14,987,592	K1LZ	6,265,620	403A	10,373,592
CN2R	13,526,045	K1DG	5,933,696	CR2X	10,006,334
8P5A	12,098,900	K4ZW	4,654,793	S50A	5,484,636
403A	10,373,592	W9RE	4,187,780	GW4BLE	4,622,391
CR2X	10,006,334	K5ZD/1	4,005,504	OH8X	4,364,312
7 MHz		7 MHz		7 MHz	
E79D	338,541	OK1WCF	226,738	E79D	338,541
OK1WCF	226,738	YT2T	210,240	OK1WCF	226,738
YT2T	210,240	3.7 MHz		YT2T	210,240
28 MHz		28 MHz		3.7 MHz	
OK1FPS	75,960	W5PR	36,360	OK1FPS	75,960
IV3KFB	71,400	K2EK/4	17,865	IV3KFB	71,400
YT3R	53,331	K4WI	16,170	YT3R	53,331
1.8 MHz		21 MHz		1.8 MHz	
SP5CJY	16,506	N2PP	557,039	SP5CJY	16,506
F5SSK	13,824	N8II	398,426	F5SSK	13,824
DL3KZA	11,480	W6YA	364,820	DL3KZA	11,480
ORP All Band		14 MHz		ORP All Band	
RX1CQ	489,775	WB9Z	991,660	RX1CQ	489,775
K4LY	369,380	AA1K/3	885,222	DK1YY	326,459
DK1YY	326,459	K1IM	266,640	EA3FF	284,382
EA3FF	284,382	7 MHz		KA1LMR	268,320
KA1LMR	268,320	W7WA	336,720	ASSISTED All Band	
7 MHz		N7DD	336,335	ER4DX	7,661,916
UP0L	1,045,265	W6YI	316,288	RG9A	7,004,810
ZL3A	788,000	3.7 MHz		E73M	6,643,920
YT8A	774,400	AA1BU	157,257	CR6K	6,612,060
3.7 MHz		K7ZV	118,752	TK9R	6,231,573
VY2ZM	573,780	ND8DX	24,034	1.8 MHz	
G15K	479,853	1.8 MHz		W2MF	14,784
OG5B	295,245	N4TZ/9	6,533	N4TZ/9	6,533
1.8 MHz		W3GH	5,687	ASSISTED All Band	
E17M	125,584	ASSISTED All Band		W3UA/1	3,666,817
VE3PN	76,626	W3BGN	4,008,312	K3WW	3,503,694
YL2SM	67,837	K3EST/4	3,947,601	N4LA	3,272,337
Low Power All Band		N2IC/5	3,890,656	AA3B	2,741,760
P40A	7,129,408	N0NI	3,852,585	N3RS	2,535,702
6V7Q	2,846,844	K8AZ	3,708,750	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
LY9A	2,249,140	WE3C	12,985,334	K3WW	3,503,694
K1BX	1,994,512	N5DX	5,257,616	N4LA	3,272,337
ASSISTED All Band		KB1H	5,006,925	AA3B	2,741,760
P40A	7,129,408	N1LN/4	4,511,188	N3RS	2,535,702
6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
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6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
LY9A	2,249,140	WE3C	12,985,334	K3WW	3,503,694
K1BX	1,994,512	N5DX	5,257,616	N4LA	3,272,337
ASSISTED All Band		KB1H	5,006,925	AA3B	2,741,760
P40A	7,129,408	N1LN/4	4,511,188	N3RS	2,535,702
6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
LY9A	2,249,140	WE3C	12,985,334	K3WW	3,503,694
K1BX	1,994,512	N5DX	5,257,616	N4LA	3,272,337
ASSISTED All Band		KB1H	5,006,925	AA3B	2,741,760
P40A	7,129,408	N1LN/4	4,511,188	N3RS	2,535,702
6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
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6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
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6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
LY9A	2,249,140	WE3C	12,985,334	K3WW	3,503,694
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P40A	7,129,408	N1LN/4	4,511,188	N3RS	2,535,702
6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
LY9A	2,249,140	WE3C	12,985,334	K3WW	3,503,694
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P40A	7,129,408	N1LN/4	4,511,188	N3RS	2,535,702
6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
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6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
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6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
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6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
LY9A	2,249,140	WE3C	12,985,334	K3WW	3,503,694
K1BX	1,994,512	N5DX	5,257,616	N4LA	3,272,337
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P40A	7,129,408	N1LN/4	4,511,188	N3RS	2,535,702
6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
LY9A	2,249,140	WE3C	12,985,334	K3WW	3,503,694
K1BX	1,994,512	N5DX	5,257,616	N4LA	3,272,337
ASSISTED All Band		KB1H	5,006,925	AA3B	2,741,760
P40A	7,129,408	N1LN/4	4,511,188	N3RS	2,535,702
6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
LY9A	2,249,140	WE3C	12,985,334	K3WW	3,503,694
K1BX	1,994,512	N5DX	5,257,616	N4LA	3,272,337
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6V7Q	2,846,844	K0TV/1	4,360,755	ASSISTED All Band	
Z71SJ	2,352,770	ASSISTED All Band		W3UA/1	3,666,817
LY9A	2,249,140	WE3C	12,985,334	K3WW	3,503,694
K1BX	1,994,512	N5DX	5,257,616	N4LA	3,272,337
ASSISTED All Band		KB1H	5,006,925	AA3B	

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try to beat, WE3C's station in eastern Pennsylvania again took the top U.S. honors in this popular category. Drawing from Missouri and Arkansas contesters, N5DX took second place in the U.S. Third place went to Dick's team at KB1H located in far eastern Connecticut. The far west U.S. stations of NK7U and K6IDX deserve special mention for their efforts. There were several stations that put nice multipliers on the air and made big scores: YE2R, ZS9X, AHØBT, B4B, JU1DX, 4U1UN, and EE9Z. FB job! The continental winners were: North America: WE3C, Africa: AO8A, Asia: C4I, Europe: IR4X, Oceania: AHØBT, South America: PJ4K, Japan: JA1YPA, U.S.: WE3C.

Multi-Multi

Every year a select group of entrants takes on the ultimate challenge and enters the multi-multi category. Over the years MM stations have contributed greatly to contesting knowledge. Many innovations that we use originated from this category. The top world score this time was the Caribbean Contest Consortium, PJ2T. PJ2T, located at a QTH called "Signal Point," is situated on half an acre of ocean-front property within the grounds of what used to be called the Coral Cliff Hotel. What a great

job this seasoned group did from Sint Martha's Bay. The number two score in the world and number one in Europe went to DR1A. DR1A is the contest callsign of the DFØCG crew. A nice picture of their QTH appears on QRZ.com. Third place world went to the Rhein-Ruhr DX Association team at CR3L. The MM battle in the U.S. is always competitive. Repeating from 2008, K3LR took top honors. Tim's crew broke into first place over friendly rival KC1XX. Matt's team took U.S. second place honors. Third place in the U.S. went to Frank's team at W3LPL. As mentioned above, the top European score was made by DR1A. They were followed by DFØHQ, the club call of the Ilmenau Contest Club. That is perhaps the only MM club in the world that uses quads. Third place went to 9A1P, Radio Club Porec. The Chinese team B1Z made a big effort which allowed many contesters to log a new one. The JR5VHU team, from the Shikoku mountaintop QTH, showed their muscle by taking first in Japan, edging out the eastern Nara team of JA3YBK. The continental winners were: North America: K3LR, Africa: CR3L, Asia: JR5VHU, Europe: DR1A, Oceania: WH2DX, South America: PJ2T, Japan: JR5VHU, U.S.: K3LR.

Team Contesting

You can make a team with five contesters from anywhere. You can be on team and still submit your score for your local club. All you need to do is register your team anytime before the contest begins. You can submit your team list to <teams@cqw.com>. Again this year the Worldwide Young Contesters (C6APR memorial group) team took top honors. Second place went to the Yankee Clipper Contest Club team honoring the C6APR operators. Third place went to the famous Chiltern DX Club. The results of team contesting are as follows:

- 1. Team WWYC (C6APR memorial group):** 4O3A (ES5TV), CR2X (OH2UA), CR6K (CT1ILT), NN3W, OY3AA (OZ1AA): 29,144,949.
- 2. C6APR YCCC:** K1RX, N1SV, FS/K1XM, W1UE, K1LI: 16,115,121
- 3. Chiltern DX Club:** 9M8Z (9M6DXX), GW4BLE, 5B/G3RXQ, MØGHQ, G3UEG: 13,783,423.
- 4. Contest Club Finland Team Finlandia:** OH8X (OH6UM), OH4A (OH6KZP), OG6N (OH6NIO), KH6/OH7WV: 11,772,255.
- 5. Florida Contest Group Globetrotters:** CX7TT (K6CT), HSØZCW (K4VUD), KH7XS (K4XS), VP9/W3TB, K9OM: 9,761,087.

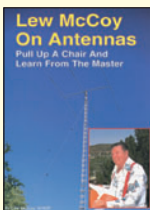
TOP SCORES IN MOST ACTIVE ZONES

Zone 3			
K7RL	2,557,412	K1RX	3,988,912
K6XX	1,301,688	RO4W	1,817,158
K5RR/7	1,233,585	UA6UDV	1,679,940
K6NA	1,206,373	UYØZG	1,669,910
N6OR/4	784,125	Zone 20	
Zone 4			
VC3O	6,606,719	LZ3FN	2,820,853
W9RE	4,187,780	OD5WPX	1,976,405
VE3CX	1,759,320	SV9CVY	1,590,408
N8BJQ	1,489,536	4X/EA5RM	1,527,708
K4AB	1,335,880	*YO3CZW	1,398,186
Zone 5			
K1LZ	6,265,620	Zone 25	
K1DG	5,933,696	JAØJHA	4,342,032
K4ZW	4,654,793	JA7NVF	1,436,925
K5ZD/1	4,005,504	JQ1BVI	1,230,462
Zone 14			
CR2X	10,006,334	JA2PAC	1,263,100
GW4BLE	4,622,391	JE1LFX	1,060,113
GA2MP	2,670,376	Zone 16	
EA1DR	2,532,152	US5D	3,583,884
PA3AAV	1,991,616	UA4WKW	2,358,199
Zone 15			
4O3A	10,373,592	<i>*Low Power</i>	
S5ØA	5,484,636		
OH8X	4,364,312		
LY8Ø	4,030,290		
SP9LJD	3,975,482		



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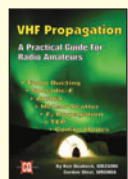


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6. Florida Contest Group Heat: K1TO, K5KG, K5RQ, N4UU or using KM4MK, N6AR: 5,929,727.

7. VK Contest Club Kookaburras: VK7ZE, VK4CZ, VK3TDX, VK6HZ, VK3TZ: 4,169,551.

8. Grupo DXE Low Calories 1: A31KK (XE1KK), XE1GRR, XE1AY, XE3N, XE1R: 1,822,616.

9. Grupo DXE Full Calories: XE2K, XE2AU, XE2S, XE1CQ, XE1MM: 1,715,713.

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
HC8A	123/13/22	446/28/76	1437/29/109	1340/35/116	2978/34/122	1567/27/76
CN2R	367/14/62	488/21/82	1218/32/113	1172/36/120	1813/34/118	1118/26/109
8P5A	153/14/30	573/19/75	1867/29/113	2165/33/113	2508/32/104	683/20/65
403A	219/10/55	776/27/87	1770/33/115	2075/38/122	2325/31/119	465/26/81
CR2X	258/13/60	695/24/86	1321/28/98	1861/30/95	3174/31/122	469/19/61

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

CN3A	92/13/60	688/23/97	1545/35/124	1872/37/135	3688/39/150	604/20/106
P33W	141/10/58	761/21/92	1727/32/124	1739/37/133	3170/38/140	1083/29/114
FY5KE	165/16/62	524/27/96	1160/34/122	1676/39/154	3366/34/143	1080/25/104

WORLD MULTI-OPERATOR TWO TRANSMITTER

AO8A	115/13/62	1062/23/90	1977/32/128	2539/37/142	3947/38/153	1020/23/111
EE9Z	129/8/40	738/19/86	2085/31/114	2348/34/121	2509/34/118	1179/20/74
IR4X	156/11/57	1078/22/96	1915/37/140	2290/38/150	2785/39/151	491/26/105

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

PJ2T	327/16/62	1006/23/92	2294/31/121	2858/37/135	3201/33/132	900/21/80
DR1A	1115/17/76	2001/26/111	2984/37/146	3658/39/157	2307/39/157	734/25/102
CR3L	182/8/50	535/17/79	2213/32/119	2292/36/132	3477/33/128	829/20/79

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K1LZ	105/14/52	494/18/79	813/23/89	1364/29/108	1200/26/107	19/8/13
K1DG	114/16/57	514/20/87	465/24/90	1155/31/121	1351/26/119	36/8/15
K4ZW	43/13/31	240/18/71	737/23/90	866/34/116	1147/27/105	44/9/22
W9RE	42/10/22	152/18/66	374/28/99	1024/34/121	1102/27/114	46/8/18
K5ZD/1	45/10/22	238/14/66	494/24/90	1415/28/106	933/18/89	37/8/13

USA MULTI-OPERATOR SINGLE TRANSMITTER

W3BGN	58/12/36	179/18/76	355/28/97	841/31/126	944/29/131	42/9/23
K3EST/4	41/11/27	142/19/74	537/30/109	1374/33/128	535/29/121	6/6/6
N2IC/5	19/10/17	80/24/57	727/32/102	677/36/135	968/35/129	39/14/25

USA MULTI-OPERATOR TWO TRANSMITTER

WE3C	83/16/57	686/25/98	1340/29/117	2229/38/161	1886/32/144	92/13/39
N5DX	38/11/18	185/23/83	823/32/116	1325/36/133	992/33/131	78/9/19
KB1H	40/8/26	239/18/82	332/27/102	1408/35/120	1064/29/124	70/8/16

USA MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	390/22/72	1074/28/111	1949/32/136	3223/40/174	2162/34/150	235/16/43
KC1XX	264/16/61	915/25/102	1566/31/127	2787/39/162	2355/31/146	230/13/33
W3LPL	308/19/68	895/25/104	1738/32/127	2673/38/162	1768/32/146	162/14/36

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
403A	219/10/55	776/27/87	1770/33/115	2075/38/122	2325/31/119	465/26/81
CR2X	258/13/60	695/24/86	1321/28/98	1861/30/95	3174/31/122	469/19/61
S50A	102/12/52	408/23/71	1030/31/102	1355/32/98	1015/32/108	153/22/74
GW4BLE	155/11/58	510/16/67	696/25/89	1257/31/83	1013/27/94	160/17/55
OH8X	252/10/59	624/22/79	888/29/96	1858/34/116	693/31/101	58/7/30

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

TM6M	153/15/67	853/22/99	882/36/130	2113/37/141	2241/38/141	221/21/91
E7DX	223/15/62	1034/24/94	1215/34/130	2190/39/148	1665/37/155	399/26/110
HG6N	160/10/54	904/25/102	1071/35/128	1674/37/144	2153/38/152	152/28/104

EUROPE MULTI-OPERATOR TWO TRANSMITTER

IR4X	156/11/57	1078/22/96	1915/37/140	2290/38/150	2785/39/151	491/26/105
OL4A	275/13/63	1215/24/95	1777/36/127	2927/39/154	2041/39/153	186/24/92
9A7A	260/10/60	1356/22/91	1220/35/128	2145/39/141	2404/37/150	624/24/101

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

DR1A	1115/17/76	2001/26/111	2984/37/146	3658/39/157	2307/39/157	734/25/102
DF0HQ	1097/16/71	2363/28/109	3283/37/146	2691/39/170	1582/38/160	660/25/106
9A1P	540/11/60	1554/21/91	2828/35/125	3137/38/141	1987/37/129	1110/24/102

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10. Louisiana Contest Club Team #1: W5WZ, N5RKK, W5WMMU, K5ER, NA5Q: 1,660,377.

11. Maritime Contest Club #1 Team: VA1MM, VE1OP, VA1CHP, VY2LI: 1,245,996.

12. Florida Contest Group Lakers: K5AUP, N4BU, N4DXI, W4STB: 932,760.

13. VK Contest Club Kangaroos: VK2KDP, PA0MIR, VK2BJ, VK4AN: 760,263.

14. Florida Contest Group Magic: AE4TE, N4EEB, N4WO, NF4A: 455,261.

15. Florida Contest Group Grizzlies: N4BP, W4AMS, W4ZW: 229,670.

16. Grupo DXXE Low Calories 2: HK3W, XE1EE, XE2WWW, XE1YYD, TG9AJR: 203,446.

17. Louisiana Contest Club Team #2: KA5M, KC5WA, W5PEM, KB5YEG: 126,828.

18. Green Hornets: W3GH, K3RWN, KB3LVH, K3RMB, AB3GY: 97,411.

19. Louisiana Contest Club Team #3: KG5VK, K5OR: 30,661.

20. Florida Contest Group Rockets: K5WW: 14,118.

Records

Beating an existing record is a real accomplishment. Take a look at the record list at cqww.com. You might find that you have a chance to take on the personal challenge of going for a new record. If you discover an error in the record list, please document it and let us

know at <questions@cqww.com>. Below are the outstanding efforts which resulted in setting new world or continental SSB records during the 2009 contest. Congratulations!

World: A3.7 SP3GEM. **U.S.:** A7 N2ZX. **North America:** A7 N2ZX. **Africa:** 14 D44AC (IK2NCJ). **Asia:** 7 UP0L; A14 RW9USA. **Japan:** L14 JG2KKG; M2 JA1YPA. **Europe:** L7 E79D; A14 DL2ARD; A3.7 SP3GEM. **Oceania:** None. **South America:** A3.7 YV6BXN.

Special Mention

The CQ WW is a great place to pick up new QSOs for your WPX, DXCC, and many other awards. During the 2009 SSB contest there were 235 different countries in the QSO data base! The CQ WW is famous for DXpeditions. Why not make a plan and travel to a nearby country that is rarer than your own? You will be pleasantly surprised that you are now the hunted! Some of the exotic callsigns appearing in entrants' logs making the contest more interesting for all of us were:

V25Z, AA5R/C6, 8P5A, W3TB/VP9, ZF2AH, FS/K1XM, OX2A, J37K, J37T, HQ9R, TO7A, HT2N, PJ7/AH8DX, V48M, PJ7MF, IG9/I2ADN, D44AC, 3B8GT, 5R8FU, EA9IE, CN2R, CN2P, 6W1RY, S79MI, 6W1RY, 6V7Q, ST2KSS, 5H3EE, C4M, 107 Chinese entrants(!), 5B/

HA5PP, H2E, C4Z, 4X/EA5RM, XU7FMZ, 8Q7EJ, JT1ZO, JD1BIA, TA2ZAF, YM3A, TA2/DL7BC, A62ER, OH0X, OH0JFP, CR2X, OY3AA, J43J, EI/ON4EI, 4Q3A, CT1JLZ, IM0/IK0FMB, GZ5Y, 9M8Z, 9M8YY, 3D2KJ, KH6LC, KH7XS, YC2VRG, KH0/JK2VOC, A31KK, R1ANY, P40A, HC8A, PZ5M, 9M6/W8AY, V31MW, J68JA, IG9S, IG9R, EA8/OH6CS, EA8CMX, 5B/G3RXQ, EA6/AA5UK, TK9R, EI/W5GN, ER4DX, IS0/K7QB, 9M6/JJ2CJB, ZL4NX, ZK2DL, DP1POL, V26B, VY2TT, T15N, YS1YS, VP5DX, T46A, EE9K, CR3A, CQ9T, CN3A, 3DA0WW, TS9A, P33W, P39P, VR2C, 4L0A, 9K2HN, A47RS, TC7KA, 4U1ITU, V6B, AH2R, YE0X, FY5KE, AA4V/VP9, VP2V/KN5H, 4U1UN, AO8A, EE9Z, JU1DX, AH0BT, PJ4K, VP5T, KP2M, SU1KM, CR3L, OH0Z, HB0/HB9AON, and PJ2T.

Comments

The week before the contest brought a collective shock to all of us when we learned of the tragic loss of the C6APR team on their way to Crooked Island. We dedicate this CQ WW SSB Contest to the C6APR team of W2EJ, K3IXD, K4QO, and W3PP. They were following their passion for this great hobby.

For the 2009 CQ WW SSB contest we received 6065 logs, of which 5922 were electronic! In case you are wondering, that is a 17% increase in entrants over the previous year. Wow! Thanks to all the contesters around the world who sent in a log. Please send in your log no matter how small. Your effort to submit an electronic log allows for a fairer adjudication process. Submitting an electronic log is easy. Send your SSB log to <ssb@cqww.com> (CW to <cw@cqww.com>). Please send your log in Cabrillo format. If your radio has a computer interface, please submit a log with exact frequencies. Exact frequencies help in the log-checking process as well as with statistical analysis of band openings.

Before you submit your log, you can help us a great deal by double-checking your Cabrillo submission. Please make sure your category is correctly indicated. If you are submitting a single-band entry, please check that your chosen category matches what is in your log. If you did everything OK, you will get back an acknowledgment from the robot. If you are having submission problems, we can help you at <questions@cqww.com>. If you make a mistake on your first submission, you can resubmit your log. It will replace the first submission. We archive all your submissions.

The CQ WW Contest Committee provides several ways for an entrant to check his/her log



John, N8AA, took 3rd place USA low power.



Haibo, BD1TCC was #1 low power in China.

Accurate Measurements. No Excuses!

Professionally Engineered
Cross Needle Meters

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



NEW! POWER SUPPLY

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

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

NEW! POWER SUPPLY

SS-505 Lightweight switching power supply.

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

COAX SWITCHES

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

CS-201

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

CS-201GII

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

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

CN-101

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

CN-103M

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

CN-103N

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

PROFESSIONAL SERIES

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

CN-801HP

- PEP reading SWR/power meter
- Frequency range: 1.8-200MHz
- Forward power ranges: 20/200/2000W

CN-801V

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

NEW! CN-801G D-STAR

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



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for category, club, and operator. Soon after you submit your log and long before the final results are published in *CQ* magazine, a *log received list* with your category is posted on the *CQ WW* site (cqww.com). Look over this list to find if your data is accurate. If it is not OK, please let us know at questions@cqww.com. About one month before the results become finalized in *CQ*, you will receive via e-mail a password that will allow you access to your log analysis (rpt). You can look over the report to again verify your category. You can see information concerning the *CQ WW* on our web page at: <http://www.cqww.com>.

Top Scores: If you plan to try to make the Top Scores box, you can count on your log being scrutinized. Running more power than the rules of your category allow, the use of undeclared QSO spotting help, the use of additional operators for a single operator entry, two signals simultaneously on the same band, or on separate bands at the same time if you are single operator, is in violation of the *CQ WW* rules. If you are multi-single, do not alter the times in the log to conform to the ten-minute rule. The *CQ WW* has at its disposal many methods to verify the score of an entrant. All the work of the *CQ WW CC* is to ensure a fair contest.

If you are a single operator in *any* single operator category, you cannot receive help that could impact your score in *any* way from *another person* or *any QSO spotting network*. Spotting yourself is against the rules. Using a QSO spotting network is OK; *just claim to be assisted*. The *CQ WW* has few requirements: log the callsign of the station you are talking to and follow the rules of your chosen category. For the 2009 contest our software and extensive data analysis suggested that some logs probably should be in the assisted category. We sent out a QSO spotting inquiry to over 75 stations in the Top Scores box. We asked them to confirm that they really were *not assisted*. The following stations replied yes, they *were* assisted: 3V8SS, E73W, EF1W, HA8BE, HI3TEJ, HK1X, IK4TVP, IT9RWB, IW7EBE, LX7I, LZ1NG, LZ2JA, LZ9X, PU2LEP, PY2WC, RV0AL, SN3X, SP4XQN, SV2DCD, UA3BS, UT7MW, UW1M, UX2X, UZ0U, YO8WW, YO9HP, YT5C, YU2A, and YU7ZZ. We wish to publicly thank each of them for their cooperation and honesty and for helping to maintain the high integrity of the Top Scores box. Their clarification helped to realize the real winners' proper standing. Everyone enters the contest to fairly compete and have fun. A fair competition means that everyone is obeying the same written rules. You can find the complete *CQ WW* rules at cqww.com.

There are several submission errors which you can help to correct. **MS and M2 categories:** Please indicate in the submitted log which of your transmitters is making each contact. All contesting logging programs allow transceiver designation during setup. **U.S. Location:** For U.S. entrants please make sure your operating QTH is shown correctly. We need this information to place you in the right call area within the results. **Single band entrants:** Single band entrants can make QSOs on other bands as a check log. Please submit the *QSOs made on all bands* you operate. Indicate in the comments section of the Cabrillo header that all contacts on your *non-entry* bands are to be a check log.

Thanks

Creating the results you see in *CQ* magazine is just the final product of a lot of work. Entrant log submission problems, incomplete logs, forgotten band changes not in log, incorrect call indicated as used in the contest, and a myriad of other subtle problems are sorted out behind the scenes. Using an armamentarium of log-checking tools and data sources, the *CQ WW Contest Committee* has done its best to certify the winners.

The members of the *CQ WW CC* who provided insight into many contesting topics are: CT1BOH, EA3DU, ES5TV, DJ6QT, DL6RAI, E21EIC, ES5TV, F6BEE, G3SXW, JE1CKA, K1AR, K1DG, K3LR, K3WW, K3ZO, K5TR, K5ZD, K6AW, KM3T, KR2Q, KT3Y, LY3BA, N2AA, N2NC, N2NT, N3ED, N5KO, N6AA, N6TR, N6TW, N8BJQ, N9RV, OH6LI, PA3AAV, PY5EG, S50A, VA7RR, VE3EJ, W3ZZ, W5OV, W6OAT, W0YK, and ZS4TX. A special thank you to Ken, K1EA, who spent countless hours making the *CQ WW* database the best in contesting. Thanks as always to John, K1AR, and Tim, K3LR, for their advice. We want to thank Barry, W5GN. Barry has provided the machinery to send certificates to you in a timely manner. Over many years, Larry, N6TW, has been a solid rock in contributing to the results of the *CQ WW*. Larry, congratulations on your *CQ Contest Hall of Fame* induction in May 2010! Finally, we want to thank Sergio, EA3DU, as he leaves the *CQ WW CC*, for his 14 years of help. He has helped solve numerous problems behind the scenes.

Congratulations to all the winners and entrants! CU in the 2010 contests!
73, Bob, K3EST

(Continued on page 101)

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.)

2009 SSB RESULTS
SINGLE OPERATOR
NORTH AMERICA

United States

K1LZ	A	6,265,620	3995	118	448
K1DG	A	5,935,686	3635	125	489
K5ZD/1	A	4,005,504	3162	102	386
(Op: WU)					
K1RX	A	3,988,912	2906	117	419
K8PO/1	A	2,632,824	2205	95	364
W1BDX	A	1,192,464	1159	85	307
N1DD	A	1,099,692	1045	97	299
K1KI	A	1,044,568	1166	77	245
(Op: KM1R)					
W5WU/1	A	857,280	955	86	294
W1HS	A	519,168	626	73	239
N1YX	A	498,980	635	77	228
W1EBI	A	356,265	484	66	207
K1RM	A	305,739	561	53	154
K1BV	A	276,018	539	39	140
K1KJ	A	177,029	329	50	161
W1FM	A	136,864	312	68	144
W1RPG	A	138,730	264	58	144
K1SND	A	114,048	246	54	138
AD1DX	A	90,720	235	55	134
KB1RDL	A	89,075	241	54	121
K1CN	A	70,152	178	41	107
K1YSY	A	56,760	175	34	95
N1TT	A	37,994	203	47	81
K1SEZ	A	21,497	105	27	66
W1MK	A	11,375	83	32	59
AA1O	A	10,224	62	26	46
KA1VMG	A	9,430	95	23	59
WA1OU	A	8,580	64	24	41
W3EP/1	28	3,900	59	9	21
K1IM	14	266,640	785	28	104
AB1EP	A	54,054	215	21	78
W1XX	7	87,662	319	24	82
AA1BU	3.7	157,257	575	19	82
K1HAP	1.8	3,500	52	8	27
*K1BX	A	1,994,512	1598	100	346
*N1UR	A	1,657,082	1376	101	351
*N1PGA	A	546,822	664	75	231
*K1KF	A	477,620	602	69	217
*W2JUI	A	304,480	434	65	195
*W1UJ	A	253,798	424	49	167
*K1HT	A	227,930	365	59	171
*N1IX	A	185,175	313	61	164
*K1VJSJ	A	183,214	333	54	148
*W1AO	A	156,338	312	45	137
*NE1H	A	72,280	213	39	100
*KA1C	A	52,125	170	38	87
*N1MW	A	51,480	161	30	87
*W1DYJ	A	37,740	138	32	89
*K1JJDY	A	36,386	137	41	72
*K1TIV	A	31,815	119	30	71
*W1SKB	A	28,560	125	30	72
*N1LU	A	18,900	87	34	56
*WB1FH	A	17,640	112	18	54
*K1B1SN	A	15,912	99	22	51
*W3SM/1	A	14,773	81	30	49
*K1FRK	A	10,868	60	24	52
*K1JUF	A	9,240	65	17	39
*N1HTS	A	9,039	50	26	43
*AA1AR	A	7,810	58	27	44
*K1HI	A	6,480	56	20	34
*K1VU	A	3,479	38	11	31
*N1MN	A	3,403	34	11	30
*WA1JAE	A	2,812	39	14	23
*W1BJ	A	2,013	26	12	21
*K1EP	A	754	13	13	13
*N1NK	21	85,028	260	29	87
*N1WRK	A	24,420	119	17	57
*K1B1FCB	14	4,284	40	9	27
*K1G1V	A	3,196	32	9	25
*W1NK	A	7,176	24	9	17
*W1WBB	1.8	385	20	5	6

*N2VM	A	9,514	62	25	46
*KC2UJ	A	9,028	61	20	41
*N2NOM	A	8,631	57	24	39
*N2CK	A	7,370	54	18	37
*K2DMU	A	5,145	44	22	27
*KC2RQ	A	2,320	33	10	19
*N2DLQ	A	2,272	26	12	20
*K2DL	A	2,030	24	13	22
*KA2BN	A	1,350	25	10	17
*K2RNY	A	1,173	19	8	15
*K2PAL	A	598	20	9	17
*WA2ART	A	550	16	11	14
*N6MWX/2	A	522	13	10	8
*WB2RIS	A	247	16	7	6
*K2AMP	A	204	7	5	6
*WB2ZEX	A	198	12	7	11
*KV2X	A	132	6	6	5
*KT2D	A	100	3	3	3
*KC2QNA	A	16	2	2	2
*W2EO	21	36,188	157	18	65
*W2LHL	A	8,648	73	12	35
*W3EHZ	A	210	10	5	10

*N3B	A	59,940	185	43	105
*W5M/C3	A	38,186	146	47	75
*N03R	A	34,000	127	37	67
*K3BLVH	A	32,207	153	34	73
*W30D	A	28,512	110	31	68
*W3SERQ	A	27,270	126	23	67
*N3KJ	A	26,400	110	25	61
*N7NJO/3	A	23,206	121	34	48
*K3VED	A	22,746	94	38	64
*N8NA/3	A	14,450	74	34	51
*W3IGR	A	10,736	65	36	52
*KA3UOL	A	4,753	46	15	34
*N0MSB/3	A	4,368	37	19	29
*N3KJUN	A	4,116	43	22	27
*AB3GY	A	506	15	10	15
*N3V3	A	130	8	7	6
*W3ML	A	100	92	34	62
*W3SE	21	58,176	239	29	67
*N3JDQ	A	9,918	67	15	43
*N3GH	14	69,869	236	24	85
*N3MMH	A	14,490	96	15	48
*N3GL	A	3,420	39	12	26

K4JTT	A	56,525	188	55	120
K4NLL	A	53,603	170	41	80
WA4ZXV	A	52,397	196	48	103
N3UA/4	A	49,245	132	51	96
WA2EMF/4	A	47,250	149	45	90
KF4ZS	A	45,568	153	38	90
NB4M	A	43,731	167	39	90
NB4MI	A	38,041	158	29	80
K4PIC	A	30,996	122	44	83
AE4EC	A	29,400	151	40	76
NX9T/4	A	23,408	100	28	63
K4CX	A	22,113	99	28	63
NEB/J/4	A	21,510	98	32	58
N2Y0/4	A	21,414	92	29	57
N4JGW	A	19,422	105	20	58
N4DE	A	18,177	83	26	57
W4ZYT	A	16,605	93	24	57
K14VCT	A	15,566	83	30	56
N4Y40	A	14,196	97	29	62
K7WLF/4	A	11,792	88	34	54
N4M1	A	9,900	71	26	49
W08RYC/4	A	8,448	59	29	37

*W9NWY/4	A	59,850	190	36	97
*N1ADY/4	A	57,404	161	38	89
*N4W0	A	50,337	149	46	95
*A4IGR	A	47,815	171	43	88
*W4UDX	A	45,500	142	37	88
*WA4JA	A	35,052	122	44	83
*W4M	A	34,935	150	22	83
*AK4NC	A	32,818	137	40	82
*W00Q6/4	A	27,913	138	40	63
*K4F0	A	25,120	120	35	70
*K7CG/4	A	23,736	119	41	77
*N4AR0	A	22,233	100	39	74
*K4JAF	A	26,751	104	36	75
*K4MJK	A	25,052	99	40	68
*K9RIM/4	A	25,190	123	36	74
*K1G1G/4	A	24,624	139	37	71
*W8KHP/4	A	23,760	99	34	65
*K13O/4	A	21,736	95	36	68
*WS4F	A	21,311	143	40	61
*N3C2/4	A	18,304	72	27	61
*K4MCK	A	18,216	101	33	55
*W8AS	A	18,204	99	33	49
*K4G0P	A	17,640	107	38	67
*K07Y2/4	A	17,385	72	33	62
*K1R1ST/4	A	16,376	75	35	57
*AK4IK	A	14,696	87	35	53
*KX40	A	14,080	82	27	53
*AJ4HZ	A	13,284	93	31	51
*K21A/4	A	13,026	70	28	50
*K2EJH/4	A	12,944	52	24	41
*AJ4JD	A	11,704	70	24	53
*AA4KD	A	11,247	71	26	43
*KD4VH	A	10,626	69	22	44
*N4YC	A	9,940	62	28	42
*K14NCX	A	9,638	58	27	52
*K4FJW	A	9,450	70	27	43
*N4MUH	A	8,816	64	17	41
*K6349	A	8,349	56	36	43
*N4DTF	A	7,622	58	30	44
*N3TG/4	A	7,434	52	22	37
*W4H0D	A	7,326	55	24	50
(Op: AA4YL)					
*K64USN	A	6,930	46	25	38
*K4YB0	A	6,110	49	24	41
*K04RH	A	6,045	52	23	41
*N4I0Z	A	4,942	41	30	30
*N84F	A	2,812	32	16	22
*W4RVN	A	2,625	30	15	20
*NE4W	A	2,310	28	11	22
*K4D4V	A	2,210	28	14	20
*K4IGX	A	2,028	29	15	24
*K8L7A	A	1,845	26	19	22
*W0JFL	A	1,768	21	13	21
*W4BK	A	1,479	21	12	17
*W4JNH	A	1,175	23	11	14
*K4FZNL	A	986	16	13	16
*N4YHC	A	780	19	11	15
*K4JHYG	A	374	10	8	9
*K3M2/4	A	350	9	5	9
*K040L	A	288	8	8	8
*K63ZH	A	272	10	8	8
*WS4E	A	198	9	5	6
*K4F4RC	A	84	8	7	7
*K4GRW	A	20	2	2	2
*AJ4RK	A	0	12	9	10
*K4JKV	28	929	41		

*72100		117	7	6	7	*EW8DJ		42,195	223	34	111	*OK2BEN		314,880	772	61	267	*G4WPD		19,040	217	15	53	*UA3DW		175,802	385	61	201						
*H21DG	14	62,976	294	22	74	*EW2AO		40,326	249	30	111	*OK1JOC		256,959	737	51	228	*G4HFL	21	37,752	216	18	70	*UA3FDX		152,243	527	45	194						
Singapore																																			
*9VIDE	A	25,100	123	41	59	*EW3LN		22,098	150	32		*OK1MKZ		135,148	510	43	183	*G4HFL	21	37,752	216	18	70	*UA3GZ		149,828	552	49	149						
South Korea																																			
HLSJCB	A	31,351	146	42	65	*EU4QC		15,390	150	25	89	*OL2T		118,770	483	36	149	*G1FON	14	47,229	379	19	72	*RW6AH		147,677	528	42	165						
HLSJUC	A	16,146	92	30	48	*EU1EU		12,865	140	21	62	*OK2PYA		107,060	418	43	125	*G8RCK		7,700	96	16	39	*RA3LO		138,470	502	45	186						
HLSJUL	A	10,586	75	29	40	*EU4AG		2,624	32	16	25	*OK1LY		96,944	696	21	159	*G3VYI		2,250	47	11	19	*RW3WZ		129,786	351	51	168						
DSDNO	A	7,261	41	25	37	*EW6DX	28	11,550	209	9	41	*OK1XU		76,670	393	33	154	*Z2BRCV	7	60,060	638	16	75	*RW3ZQ		128,758	360	51	176						
HL1/WXRC	14	943	19	10	13	*EW1KW	21	79,200	517	27	83	*OK2ASB		70,066	333	28	118	*M0JCK	3.7	506	24	4	14	*U1BA		121,584	420	45	159						
*05SFE	A	252,723	1020	66	117	*EW2FA		8,850	105	26	73	*OK2KJ		70,680	318	38	148	*G3FFO	1.8	3,663	116	3	38	*RD3DS		113,525	393	48	191						
*DSSTOS		185,562	538	62	121	*EW6DU	14	47,132	328	15	73	*OK1SU		57,624	310	41	127	*ES4A	A	504,750	874	87	288	*UA4GCM		109,282	286	58	144						
*6K5AOY		84,626	404	60	71	*EW8GQ	7	16,884	245	10	53	*OK2WYK		43,326	173	45	129	Estonia																	
*HL1VAU	14	65,766	304	30	67	*EW6DM		5,175	150	8	37	*OK1DKR		40,552	191	39	109	(Op: ES4RD)																	
*HLSYJ		6,004	95	17	21	Belgium																													
Taiwan																																			
B2U4A	A	90,132	529	37	74	*007T	A	716,310	1578	75	240	*OK1VHV		34,055	179	33	106	European Russia																	
BX5AA	A	338,184	1198	33	99	*003A	A	402,776	909	65	188	*OK1BLU		23,922	206	36	108	A 2,358,199 3038 122 455																	
*BV4VR	A	64,827	214	53	94	*ON7ON		30,996	208	32	91	*OK2SWD		29,975	173	24	87	A 1,617,158 2432 119 434																	
*BV1EK		3,780	44	23	22	*005M	3.7	78,228	795	15	67	*OK1MNV		16,168	92	29	65	A 1,679,940 2391 113 397																	
*BU2AE	14	1,023	29	12	19	*004O		408,200	813	68	257	*OK2BND		1,677	46	15	28	A 1,330,610 1593 119 423																	
Tajikistan																																			
*EY8CC	21	27,081	198	11	40	*OT7E		198,170	494	60	206	*OK2TEO		735	41	10	25	A 2,206,020 1894 103 367																	
*EY7BJ		14,406	147	11	31	*ON3NJ		190,156	391	52	212	*OK2HZ	28	15,663	162	13	56	A 1,206,020 1894 103 367																	
*EY8AJ		7,250	104	14	36	*ON6LS		163,064	815	47	176	*OK2VZ		2,610	91	5	25	A 1,076,248 2147 101 315																	
*EY8JD		1,175	23	6	19	*ON6FC		153,860	418	60	185	*OK1KZ		2,610	91	5	25	A 927,000 1834 85 295																	
Thailand																																			
HS0ZEF	A	947,805	1429	101	252	*ON3AR		150,975	413	55	170	*OK2OX		780	31	5	15	A 719,940 2391 113 397																	
HS0ZDR	21	30,960	181	17	55	*ON4VM		124,068	465	41	155	*OK2ZAW	14	176,660	743	31	115	A 1,330,610 1593 119 423																	
*HS0ZHC	A	1,142,560	1917	78	218	*ON5JD		20,295	163	26	97	*OL9M		21,655	197	15	55	A 1,076,248 2147 101 315																	
*HS0ZCW		598,500	1377	78	174	*005D		4,930	69	15	14	*OK2HBY		14,606	168	15	52	A 1,076,248 2147 101 315																	
*HS0ZIN	28	14,168	150	17	39	*ON7BR	14	48,200	245	22	68	*OK1WCF	7	226,738	1301	30	116	A 1,076,248 2147 101 315																	
*HS0ZYX	14	6,720	77	16	26	*ON4EY		16,962	148	19	47	*OK1UG		42,282	450	13	62	A 1,076,248 2147 101 315																	
UK Bases on Cyprus																																			
ZC4LI	21	704,990	1810	35	108	*ON4LWX	3.7	25,260	442	9	51	*OK1CRM	3.7	75,960	975	138	59	A 1,076,248 2147 101 315																	
United Arab Emirates																																			
A61C	A	724,668	1075	59	210	*E74AA		1,790,253	2523	95	392	*OK1UDJ		3,126	30	8	23	A 1,076,248 2147 101 315																	
A61BK	A	261,670	520	48	143	*E71A		312,744	1704	27	116	*OK2BUC		2,079	63	4	29	A 1,076,248 2147 101 315																	
A65BM	A	103,356	380	29	79	*E7XZ	21	1,007,868	2767	37	151	*OK5AD		1,079	15	4	12	A 1,076,248 2147 101 315																	
A65BP	3.7	23,668	159	11	50	*E74WD	14	102,582	557	29	94	*O2ZBK	A	383,022	783	77	269	A 1,076,248 2147 101 315																	
A62ER		1,808	656	15	4	*E74WV	A	119,004	410	50	61	*O2ZEV	A	308,800	483	51	295	A 1,076,248 2147 101 315																	
*A65CA	A	35,046	121	38	80	*E71M	14	15,000	146	13	47	*O2ZPB		139,520	491	54	164	A 1,076,248 2147 101 315																	
Uzbekistan																																			
*UK7AZ	A	785,925	987	87	228	*E71B	14	338,541	1772	31	116	*OZ7EA		100,360	379	46	127	A 1,076,248 2147 101 315																	
*UK9AA	14	751,518	1807	35	127	*E73X		7,473	146	9	38	*OZ7EI		65,681	246	110	66	A 1,076,248 2147 101 315																	
Vietnam																																			
XY1X	A	404,838	847	69	174	*E73P		1,377	41	7	20	*OZ7X	7	231,855	1197	30	115	A 1,076,248 2147 101 315																	
3W1M	28	110,607	826	16	53	Bulgaria																													
West Malaysia																																			
9M2JL	A	60,515	248	46	87	L3ZFN	A	2,820,853	3875	120	433	*OZ1CJS		50,986	391	24	82	A 1,076,248 2147 101 315																	
*9M2ZT	A	149,786	559	58	124	L2ZJR		683,753	1325	82	289	*OZ7AEI		6,048	99	12	42	A 1,076,248 2147 101 315																	
*9M2ZL	21	451	32	5	6	L21BJ		625,656	157	66	241	*O2V3X	A	387,720	678	86	274	A 1,076,248 2147 101 315																	
EUROPE																																			
Aland Islands																																			
OH0X	14	713,971	2118	36	137	L21MS		258,984	568	27	145	*O21ACB		231,384	642	54	194	A 1,076,248 2147 101 315																	
OH0JFP	7	456,754	2489	32	107	L23H		128,700	446	41	115	*O22DAN		209,838	861	51	285	A 1,076,248 2147 101 315																	
Andorra																																			
*C31CT	A	51,012	421	23	86	L26ZA		34,375	249	33	92	*O24NA		185,238	624	46	200	A 1,076,248 2147 101 315																	
*C31CA		3,068	100	11	41	L21VVV		28,888	181	30	62	*O21JXV		122,512	355	56	192	A 1,076,248 2147 101 315																	
Austria																																			
OE4VIE	A	346,164	1086	57	216	L25Z	21	51,064	305	27	116	*O26AGD		99,897	388	42	159	A 1,076,248 2147 101 315																	
OE4WWL		49,468	212	44	122	*L2ZHN	A	238,136	512	68	221	*O21KHH		61,750	189	42	126	A 1,076,248 2147 101 315																	
OE2UL		34,584	147	39	93	*L2ZSX		212,592	565	59	199	*O25WJ		50,544	237	36	148	A 1,076,248 2147 101 315																	
OE3WMM	A	176,128	809	30	98	*L21AQ		180,176	524	54	176	*OZ1LFI		37,120	26	30	120	A 1,076,248 2147 101 315																	
*OE3DM		266,445	718	56	209	*L21KQ		165,726	557	54	189	*O25HZ		6,300	108	12	58	A 1,076,248 2147 101 315																	
*OE2JKL		114,736	389	42	160	*L21KQ		154,105	569	51	194	*O21DGO		4,284	56	14	28	A 1,076,248 2147 101 315																	
*OE1MCU		25,773	170	34	87	*L21NKG		78,840	350	215	37	*O27DK		1,760	47	13	31	A 1,076,248 2147 101 315																	
*OE6HFL		23,421	196	22	89	*L21NKT		35,500	215	37	105	*O22MD		1,221	28	14	19	A 1,076,248 2147 101 315																	
*OE9NRH		4,189	74	16	43	*L21VCT		18,421	119	35	74	*OZ7JXT	14	8,160	123	14	37	A 1,076,248 2147 101 315																	
*OE2PTN		1,734	37	16	35	*L21ZFO		16,714	176	13	48	*OZ7RQ		62,749	387	30	117	A 1,076,248 2147 101 315																	
*OE1HHB	14	120,744	556	26	103	*L21ZST	21	10,967	514	33	128	*OZ660		9,360	105	15	50	A 1,076,248 2147 101 315																	
Azores																																			
CR2X	A	10,006,334	7778	145	522	*L21ZNY	21	20,010	179	14	55	*5P0Q	3.7	4,995	133	6	39	A 1,076,248 2147 101 315																	
CU2AF	28																																		

0Y3AA	A	966,565	2170	69	326	DF3QG		182,361	316	78	189	*DK1TS		40,689	227	29	108	*IK2XRO		30,592	184	29	99
*0Y9R	A	96,690	529	34	131	DF56J		169,670	474	51	181	*DL1ARD		40,528	170	40	109	*IK20NR		29,376	117	50	86
OH8X	A	4,364,312	4373	133	481	DF56N		164,008	400	59	188	*DL1AVL		38,488	184	38	98	*IK8VHN		26,180	164	33	77
OH10		592,384	963	85	331	DK7PF		156,630	546	43	184	*DL1LVL		36,237	167	36	85	*IK21FW		26,136	186	20	104
OH4BNP		277,378	537	72	259	DK2PM		134,368	430	49	172	*DJ5XK		35,000	245	31	107	*IK24DU		25,220	168	23	74
OH6XY		137,812	304	72	259	DG60AG		132,840	491	48	198	*DL5JSP		34,194	220	32	109	*IK2YJS		24,768	186	30	99
OH8JR		114,242	229	62	233	DL7BA		126,385	310	52	105	*DL5JSP		32,718	125	46	87	*IK25OX		24,510	171	35	79
OG1T		57,330	312	37	89	DF5LR		125,442	474	43	159	*DJ7YR		32,705	162	42	113	*IK22LD		23,956	163	28	85
OH1BV		56,780	214	50	120	DL7JAN		123,714	510	56	161	*DJ8UJ		30,628	192	30	94	*IK20WZ		23,744	185	22	84
OG3A		29,294	120	44	107	DL1GTB		116,560	361	41	167	*DL6R8H		30,169	199	30	100	*IK28DB		23,041	172	31	94
OH6IU		3,591	33	25	32	DL1JTB		112,944	401	41	167	*DL1NPG		30,155	171	32	131	*IK4AUM		23,000	172	31	94
OH1WV		391	9	8	9	DL9GFV		76,950	255	41	109	*DM3KZN		29,946	163	36	102	*IK21JL		21,320	179	22	82
OH2XF	21	45,194	195	27	91	DL60VU		71,757	288	49	152	*DK6RF		29,184	163	30	66	*IK8NRW		20,384	152	32	80
OH1TX	3.7	295,245	1709	31	104	DC8RU		63,690	287	37	128	*DL1NUX		28,025	200	26	69	*IK21HC		18,590	159	26	84
OH2PM	1.8	57,986	122	13	66	DK6IR		62,429	158	53	110	*DO1DUJ		26,508	177	25	69	*IK28YN		18,012	160	24	90
*OH1XY	A	218,246	357	71	191	DC92P		61,908	183	55	99	*DF8T		26,322	131	30	93	*IK6ELH		17,820	188	32	80
*OH2LP	A	109,140	386	45	159	DM3PK		60,800	198	50	110	*DL4SUN		25,038	167	30	77	*IK2CFD		17,557	124	31	66
*OG5T		98,810	323	32	153	DF3HD		52,670	276	31	84	*DL2BUM		24,828	118	38	77	*IK29HA		17,290	182	19	76
*OH2FS		53,730	152	33	146	DF7LF		46,340	306	31	109	*DL1DF		24,600	156	34	86	*IK2WYI		16,942	140	24	62
*OH2MD		34,506	196	32	111	DF8JK		45,105	278	35	120	*DL9HB		24,289	128	35	72	*IK41UJ		14,410	269	28	103
*OH2JW		193	28	88	88	DJ2JA		44,226	176	43	119	*DO1MGN		23,736	207	19	73	*IK21MH		13,940	67	28	54
*OH6JH		28,944	199	28	106	DJ5JK		40,722	793	12	54	*DO1KUB		22,140	177	22	86	*IK28ZJ		12,560	119	17	63
*OH2CI		6,664	83	18	50	DL1LARS		40,005	245	31	96	*DG6DAF		21,800	130	29	71	*IK24GL		12,516	135	23	61
*OH6JE		4,524	53	16	38	DJ2ST		39,900	207	42	91	*DO2MS		21,658	135	29	69	*IK3MLF		11,880	99	28	62
*OH1BO		3,120	50	14	38	DL8DXF		32,289	179	31	110	*DJ2VJ		21,600	119	30	60	*IK24DV		9,546	166	24	39
*OH1JF		1,500	102	13	47	DL6XCF		32,004	183	36	91	*DL1LS		20,544	163	32	79	*IK3NIB		11,483	97	37	66
*OH2LNH		437	19	7	16	DL7UFN		30,654	118	47	70	*DL6GV		20,454	113	28	68	*IK25FJ		10,374	79	28	63
*OH6GF		9	7	7	7	DJ6TB		29,051	175	30	64	*DO1CO		20,250	197	16	65	*IK21MD		10,349	84	23	56
*OH7FKV	21	51,039	311	24	34	DL2LIAN		28,421	140	34	63	*D05AW		19,982	195	20	83	*IK4AUY		10,150	68	22	36
*OH8KYV		5,704	99	12	34	DL1HBD		27,432	187	29	79	*DO8YX		19,190	182	22	79	*IK22NY		8,970	71	24	54
*OH3LE	14	10,944	150	14	43	DL80BV		25,870	147	33	97	*DK6NF		15,400	101	23	54	*IK20YD		7,480	87	23	57
*OH6RC		7,686	70	12	49	DJ5JK		24,980	144	31	74	*DF9FT		14,364	81	29	74	*IK7WVJ		6,840	87	23	57
*OH6ZH		7,129	138	12	55	DJ2AM		21,726	110	32	90	*DL2LAR		14,900	109	25	70	*IK28JL		7,473	68	24	47
*OH6TN		1,624	56	4	25	DK2YL		20,825	155	31	88	*DF1SMW		14,014	133	20	78	*IK4ADY		7,006	51	24	38
F5PU	A	709,530	1503	83	319	DF2HL		18,711	86	36	63	*DF7GJ		13,775	77	31	62	*IK20NX		6,984	52	28	44
F5VH	A	621,180	749	59	261	DL2SWM		18,200	167	22	69	*DO1CS		13,396	147	16	52	*IK21DN		6,930	91	23	54
F6GS		400,656	1246	56	216	DM2BPG		6,208	66	16	48	*DL1DXF		12,642	101	27	71	*IK21PV		6,200	72	17	45
F6DQ		256,744	556	65	203	DH4GK		5,500	154	7	43	*DJ4PK		12,604	101	27	65	*IK26FS		6,192	72	21	51
F4SQJ		210,750	445	66	215	DH2MK		2,928	58	20	41	*DO2YH		11,440	162	14	66	*IK21DX		5,712	55	22	51
F5CO		203,500	358	76	199	DH8DS	28	19,832	265	13	54	*DJ1FZ		11,084	98	24	44	*IK8YDP		5,466	166	23	34
F8BL		187,272	392	68	148	DH8BOA	21	334,720	1007	35	125	*DL1DBR		11,050	109	25	60	*IK5FVA		5,440	55	23	30
F8CI		146,170	322	61	174	DK5FF		160,245	588	29	106	*D06SR		10,521	187	12	51	*IK5FLA		4,928	40	25	31
F2QH		129,140	490	30	170	DF2OZ		42,328	181	27	77	*DH0GHU		10,296	107	17	71	*IK0BI		4,800	67	27	48
F5AMH		117,834	623	37	86	DM3MM	14	402,160	1329	38	138	*DK7ZJ		9,856	105	14	63	*IK4SPB		4,526	53	20	42
F8DYD		50,184	210	44	120	DL6JNF		26,880	201	16	64	*DF4XF		9,384	125	15	77	*IK1CVF		3,312	84	17	55
F6CYT		3,782	65	17	44	DL1ZL		20,232	167	17	55	*DO1DXD		9,250	87	16	34	*IK0WHE		2,576	28	19	27
F6KCP	21	107,067	508	22	67	DJ2HD	A	848,725	1303	80	345	*DK0FJ		9,075	65	20	50	*IK21LV		2,350	43	14	33
*F6DZU	A	709,124	1246	81	257	DL7UK		584,995	1000	78	317	*DO1QO		6,216	98	12	44	*IK21DG		2,850	43	14	33
*F6AKS		534,175	1034	73	242	DL7MK		577,717	1125	69	320	*DO1CE		6,138	98	16	38	*IK20PM		2,166	38	23	34
*F6SLW		401,115	857	51	288	*DL4ZA		568,860	1092	69	311	*DK0SU		6,090	63	30	38	*IK28FW		1,763	37	30	30
*F6FTB		368,165	786	70	265	*DL1BWU		506,328	776	87	321	(Op: DF7SA)		5,886	60	20	34	*IK4XOT		1,564	36	11	23
*F6AGR		325,380	608	66	224	*DR4G		496,172	922	68	258	(Op: DJ0GM)		5,712	80	14	42	*IK2LFD		648	20	9	18
*F6DSD		294,912	791	58	230	*DJ6OZ		349,536	696	69	262	*DJ5MW		5,633	67	13	30	*IK2RGT		252	20	3	9
*F6FFH		240,192	609	65	223	*DJ4JF		301,187	451	88	261	*DH9SB		5,203	59	17	26	*IK1FGB		108	13	6	0
*F6FHI		186,651	484	61	192	*DFWBE		262,452	712	56	235	*DL5DD		5,002	62	18	43	*IK3SHJ	14	68,174	477	22	67
*F6BIV		159,354	541	43	191	*DF0VB		259,565	556	52	243	*DM0KS		4,200	70	14	42	*IK3PQJ		61,446	199	21	77
*F6SIB		143,375	322	46	188	(Op: DL1MA)		175,112	385	11	58	*DL1MH		4,254	51	18	48	*IK2ZBQ		52,865	322	23	44
*F6KKH		141,804	485	44	158	*DK2AT		213,642	472	62	224	*D09PL		4,									

*LY2KZ	7	98,448	731	23	89	LA9TJA	176,000	558	53	197	*S05GVY	11,904	107	30	63	*Y07CWP	60,894	292	36	117	*OM30M	28	11,032	160	11	45
*LY20	3.7	10,696	197	8	48	LA21J	80,510	324	39	155	*S081	11,696	100	20	66	*Y03YB	60,816	248	45	136	*OMDTT	28	3,672	80	7	27
Luxembourg						LA60KA	64,600	395	25	127	*S03HXH	10,692	140	15	51	*Y09XK	54,270	290	37	125	*OMDTA	21	810	29	9	21
LX1SG	A	13,400	453	45	135	LA7SKA	58,574	195	15	67	*S07PDS	9,569	70	16	47	*Y0DOP	40,780	274	26	87	*OM3TB	14	20,288	256	13	53
Macedonia						LAZSI	25,168	171	30	91	*S05EBM	9,292	75	39	53	*Y06AWZ	35,866	299	35	123	*OM6TX	17	28,336	311	14	63
*Z35W	A	177,912	506	68	184	LA20KA	12,376	151	29	75	*S08MXX	8,701	73	26	51	*Y06HSH	26,432	107	45	67	*OMDWR	3.7	24,308	359	9	50
*Z36G	LNPZ	9,576	100	21	51	LA5PRR	11,049	84	29	58	*S08MNX	6,900	83	23	46	*Y06ADW	22,388	137	46	70	*OM7AB	3.7	41,473	611	9	58
Moldova						LA9Z	661,920	1920	37	131	(Op: SP2FX)	5,352	54	21	43	*Y09GZ	21,109	173	22	79	*OM8AQ		1,624	74	4	24
ER5GB	A	467	1153	69	262	(Op: LA5KO)	268,755	2010	26	97	*S05FMT	20,618	162	32	90	*Y05CZZ	21,012	114	33	70	Slovakia					
*ER2RM	A	332,304	718	69	267	(Op: LB16)	19,250	254	11	62	*S09PHQ	19,656	199	15	89	*Y05BBO	18,622	148	38	91	*S50A	A	5,484,636	4063	152	505
*ER3CT	A	152,317	433	53	174	LA2WCA	30,976	291	16	72	*Y08RKP	15,988	103	28	51	*Y08BQD	17,343	143	32	91	*S50B	A	1,580,200	110	31	37
*ER1DA	A	94,915	324	49	156	LA9BMM	12,064	208	7	45	*Y05DIF	15,988	103	28	51	*Y08BZL	17,343	143	32	91	*S50A	A	95,480	226	65	155
*ER5DX	A	44,664	200	38	106	*LA7GNA	163,947	558	49	162	(Op: SOQ2M)	15,988	103	28	51	*Y02MHJ	15,988	103	28	51	*S51ZZ	A	50,616	218	40	108
*ER3MM	Z1	18,240	111	23	57	*LA7TN	74,374	332	34	134	*S02LYS	5,605	73	12	47	*Y02ZML	14,162	92	35	62	*S53FO	A	33,120	137	44	100
*ER4LX	Z7	75,600	645	21	87	*LA6ALA	72,930	422	40	155	*S05BML	5,162	98	15	43	*Y02MIL	14,060	140	23	72	*S56W	Z8	255,576	1396	27	111
*ER3HW	1.8	10,441	194	7	46	*LA2HFA	59,032	341	32	125	*S08JED	4,712	63	20	42	*Y07BGB	11,869	143	19	64	*S57S	A	155,172	832	26	108
Monaco						*LA3VPA	53,700	321	15	119	*S08JLN	3,869	50	19	34	*Y08BQD	8,968	58	24	35	*S53MM	Z1	800,450	2447	36	134
3A2MG	A	118,854	335	55	158	*LA6169	46,169	146	91	96	*S08JLN	3,168	63	10	34	*Y05BXT	8,820	74	25	45	*S57AL	Z14	1,074,597	2968	37	148
Montenegro						*LA1VNA	25,488	186	27	93	*S08JLN	3,168	63	10	34	*Y05BXT	5,412	109	8	36	*S53M	Z7	441,062	1647	38	128
403A	A	10,373,592	7630	165	579	*LA1DSA	11,500	124	27	71	*S03BVI	2,961	39	18	29	*Y03DLK	2,756	50	18	31	Slovenia					
*403Z	A	65,685	444	31	114	*LA0KSA	6,272	81	15	49	*S09AVU	2,650	44	17	36	*Y02BEM	2,350	50	16	31	*S53SL	A	43,120	488	15	73
Netherlands						*LA0KSA	6,272	81	15	49	*S09AVU	2,650	44	17	36	*Y02BEM	2,350	50	16	31	*S530	1.8	65,529	335	13	68
P3AAAV	A	1,991,616	2094	111	441	*LA0KSA	6,272	81	15	49	*S09AVU	2,650	44	17	36	*Y02BEM	2,350	50	16	31	*S51F	A	2,287,728	1460	105	428
P2M7M	A	1,116,204	1935	86	296	*LA1YPA	5,940	60	20	46	*S06PLH	2,640	371	38	138	*Y04HAB	1,696	33	10	22	*S56B	A	1,299,878	613	59	208
PA2MT	A	526,815	906	83	262	*LA2GN	5,733	85	17	46	*S02PJK	1,952	30	11	21	*Y04ATV	31,312	327	17	59	*S58RU	A	83,328	603	21	107
PA0JUN	A	295,120	663	63	247	*LA2AGY	3,876	52	23	45	*S06BEN	1,911	28	18	21	*Y05PCY	22,338	238	15	58	*S53QD	A	26,544	118	42	70
PA0FMO	A	161,028	443	51	162	*LA2AAA	3,528	62	15	62	*S03RJP	1,539	21	13	28	*Y08BZL	21,238	210	18	61	*S57ATR	A	14,802	81	10	35
PA0JZ	A	30,796	294	13	39	*LA1PHA	3,224	48	16	36	*S06EYI	837	19	10	17	*Y02IS	7,200	147	8	27	*S57YX	A	8,568	96	14	47
PA0COR	A	134,368	439	48	160	*LA9URA	1,054	34	9	22	*S05PTI	308	8	6	8	*Y05HJY	1,508	51	5	34	*S57LR	A	3,577	64	12	37
PA0LSK	A	57,378	243	37	109	*LA8TIA	504	25	10	18	*S02LYF	255	9	7	5	*Y08BXP	1,500	36	8	17	*S56DX	A	126	10	5	9
PA0GCV	A	52,394	206	43	91	*LA1ORA	260	19	7	19	*S02LYF	255	9	7	5	*Y05HOH	1,500	36	8	17	*S570	Z1	137,268	615	34	89
PA0DD	A	32,968	192	32	72	*LA19RE	95	16	7	12	*S08NZP	120	17	9	11	*Y05BBO	84,016	412	26	92	*S57RH	Z14	362,934	1707	28	89
PA0B	A	17,098	111	24	59	(Op: Z3AHK)	3,312	84	7	29	*S03LXK	6,336	120	10	34	*Y08BTB	25,840	177	23	62	*S520T	A	239,443	1002	33	116
PA0VST	A	12,150	73	34	47	*S09DSD	64,602	305	18	83	*S02LXK	6,336	120	10	34	*Y08BTB	25,840	177	23	62	*S53XV	A	14,602	76	13	35
PA0WVG	A	8,549	140	20	63	*S09DSD	64,602	305	18	83	*S02LXK	6,336	120	10	34	*Y08BTB	25,840	177	23	62	*S53XX	A	17	16	5	5
PA1NHZ	Z1	66,768	278	27	80	*S09DSD	64,602	305	18	83	*S02LXK	6,336	120	10	34	*Y08BTB	25,840	177	23	62	*S56AA	Z7	14,742	238	11	52
PA1HPJ	Z7	15,180	200	13	56	*S09DSD	64,602	305	18	83	*S02LXK	6,336	120	10	34	*Y08BTB	25,840	177	23	62	*S58MU	3.7	8,000	212	4	24
*PA0AGA	A	469,820	1342	56	222	(Op: SP3JMM)	3,875,482	3574	134	507	*S05AOB	28,635	117	23	33	*Y04BEX	5,253	98	11	40	Spain					
*PA0KW	A	395,240	789	70	257	*S03PLG	409,545	1012	70	215	*S09LCE	35,815	215	23	72	*Y07BEM	1,750	43	7	28	*EA1DR	A	2,532,152	3032	100	339
*PA0GI	A	392,904	995	60	246	*S02GJ	286,011	662	63	234	*S09LCE	35,815	215	23	72	*Y07BEM	1,750	43	7	28	*EA3CI	A	1,728,628	2594	78	296
*PF9A	(Op: PG2AA)	224,282	597	59	196	*S01PJW	230,700	452	76	224	*S09L	32,384	238	25	63	*Y05PEZ	7,200	245	14	64	*EA3RR	A	1,112,032	1455	99	373
*PA0T	A	184,000	613	47	183	*S09AOB	28,635	117	23	33	(Op: SP9JML)	28,635	117	23	33	*Y04BEX	5,253	98	11	40	*EA4EE	A	1,101,000	1688	85	290
*PD7B	A	175,112	503	51	185	*S04PMPA	760	15	8	11	(Op: SO5RDX)	760	15	8	11	*Y08BGR	14,837	83	8	33	*EA4KD	A	983,645	1285	94	315
*PA0GJV	A	170,430	504	46	149	*S04LXK	72,030	400	24	81	(Op: SP9DSD)	72,030	400	24	81	*Y08BGR	14,837	83	8	33	*EA4K	A	983,645	1285	94	315
*PD1KA	A	163,652	375	34	129	*S04LXK	72,030	400	24	81	(Op: SP9DSD)	72,030	400	24	81	*Y08BGR	14,837	83	8	33	*EA4K	A	983,645	1285	94	315
*PA0RD	A	154,580	395	57	179	*S04LXK	72,030	400	24	81	(Op: SP9DSD)	72,030	400	24	81	*Y08BGR	14,837	83	8	33	*EA4K	A	983,645	1285	94	315
*PE1LGZ	A	132,608	451	50	174	(Op: SP9DSD)	72,030	400	24	81	(Op: SP9DSD)	72,030	400	24	81	*Y08BGR	14,837	83	8	33	*EA4K	A	983,645	1285	94	315
*PB7XYL	A	132,540	387	61	174	(Op: SP9DSD)	72,030	400	24	81	(Op: SP9DSD)	72,030	400	24	81	*Y08BGR	14,837	83	8	33	*EA4K	A	983,645	1285	94	315
*PH0AS	A	128,880	321	59	183	(Op: SP9DSD)	72,030	400	24	81	(Op: SP9DSD)	72,030	400	24	81	*Y08BGR	14,837	83	8	33	*EA4K	A	983,645	1285	94	315
*PF1R	A	98,792	411																							

LX1E	A	Luxembourg	94,248	309	52	179	YT1VP	*	521,207	2100	35	132	UX3MZ	*	764,330	2444	38	141	Colombia	724,563	1903	31	116	XE1B		Mexico	321,402	1227	52	86
LX7I	14	1,394,442	3438	39	147	(Op: LX2A)	YT1TA	*	18,172	178	14	63	UW8I	*	598,260	2030	38	139	Peru	86,879	298	59	104	VP2MDG		Montserrat	6,142,374	4868	122	400
ER4DX	A	Moldova	7,661,916	6061	155	583	YT14A	3.7	11,475	100	15	60	UT81M	*	146,286	874	29	97	Trinidad & Tobago	201,082	701	23	83	VP5DX		Turks & Caicos	7,786,722	5168	143	531
ER3ZZ	*		346,580	547	81	229	YT5Z	1.8	16,225	279	9	50	UTSID	*	126,629	570	32	107	Uruguay	320,112	994	22	92	NP2B		U.S. Virgin Islands	651,504	1041	78	199
ER3DX	*		57,285	152	81	119	IT9AUG	28	83,288	607	26	90	UT51F	*	9,849	75	22	45	Venezuela	514,176	892	63	145	NP2Q		Canary Islands	46,276	238	35	57
PA1T	A	Netherlands	967,575	1585	91	308	IT9AUG		13,511	201	10	49	UT57M	7	362,404	1568	36	136	United States	1,354,716	1084	107	377	E8AURL		AFRICA	3,425,296	2522	108	406
PA5A	*		526,797	869	81	246	IT9AUG		34,000	345	17	88	UT57M		2,156	42	12	37	United States	1,354,716	1084	107	377	E9EJK		AFRICA	3,425,296	2522	108	406
PA6MIR	*		357,915	751	65	256	IT9AUG		119,978	473	52	199	UT57M		156,648	1103	26	96	United States	1,354,716	1084	107	377	CR3A		Madeira Islands	16,195,382	6965	163	663
PA3C	*		321,483	584	65	238	IT9AUG		117,793	393	47	174	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	CQ9T		Madeira Islands	11,030,210	6073	137	533
PA8LOU	*		253,344	405	83	229	IT9AUG		17,176	96	26	50	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	CQ3Z		Madeira Islands	34,100	148	31	69
PE5T	*		190,656	395	64	224	OM8LA	A	5,477,650	4584	156	554	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	CN3A		Morocco	20,052,100	8489	167	672
PE4BAS	*		190,452	548	59	210	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	ZS5WK		South Africa	273,420	506	63	147
PASTT	*		142,344	345	63	153	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	3DA0WW		Swaziland	2,800,518	2684	95	298
PD1D	*		124,250	977	26	99	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	W3MFM		Tunisia	14,632,939	6944	153	586
PE1FTV	*		107,532	458	39	167	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	TS9A		Tunisia	14,632,939	6944	153	586
PA7RA	*		79,650	292	47	118	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	E6KWA		Armenia	5,431,950	4785	95	355
PA3CEV	*		23,500	150	32	68	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	RN9SXX		Armenia	5,431,950	4785	95	355
PASKT	*		10,676	76	25	43	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
PA7MM	21		260,058	625	36	142	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
PC5W	*		181,440	607	32	112	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
PF5X	*		25,162	203	14	33	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
PASO	7		6,550	122	10	40	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
PA9M	3.7		161,727	1481	17	76	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
LA9DAA	A	Norway	247,380	517	70	215	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
LA9TY	*		24,625	125	32	93	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SO6I	A	Poland	1,208,172	1521	107	425	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SN6F	*		795,521	1680	81	298	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SO8JX	*		619,047	1012	84	341	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP4Z	*		374,680	569	83	248	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP9LAS	*		330,630	735	63	250	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP6HXN	*		167,005	359	68	195	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP5XSL	*		153,576	576	49	194	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SN9Y	*		102,292	357	48	166	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP1MVG	*		80,712	166	64	113	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP1RKR	*		75,680	325	46	126	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP6PKY	*		29,520	168	31	89	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP4GHL	*		28,116	211	33	109	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP10	*		21,924	106	43	73	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP5BNB	*		13,671	110	20	73	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP5BS	*		8,910	149	11	43	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SO40LP	*		8,804	76	24	47	OM8LA	A	965,552	1459	88	378	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SO3AUA	*		7,254	56	30	48	OM8LA	A	1,212,862	1236	112	462	UT57M		149,380	1155	21	69	United States	1,354,716	1084	107	377	UA9UZZ		Armenia	5,431,950	4785	95	355
SP5GDU	*		5,040	50	16	29	OM8LA	A	965,552	1459	88																			

9A3B 9A1CMA	Croatia 2,628,072 9,720	2739 96	129 26	492 55	CR6P CR5R	1,134,240 666,841	1923 1040	92 91	316 348
OK5W OL7T OK10UE OK2KJ OL2U OK2RVM OK5SWL	Czech Republic 9,592,128 2,454,732 1,931,500 586,131 239,732 44,712 630	2793 5136 2782 996 690 200 25	129 177 106 394 237 117 22	492 657 394 312 237 117 22	YP7P Y04KXC GM7A YT6T	1,433,586 345,666 226,117	2469 818 711	103 248 56	359 248 227
501A 502J	Denmark 1,420,440 668,484	2072 1540	88 74	311 298	IR9Y IU9T IP9A IT9DFI IT9HBT IT9JQY	6,664,246 5,463,150 1,425,383 5,980,017 524,524 235,478	4752 4206 2387 993 1195 774	166 147 365 87 281 66	652 579 365 310 215 281
6P2Z M4A G6MC G5D G3B M4U G5Z M6C G3YN	England 5,962,920 4,139,710 2,538,496 1,816,581 1,179,957 1,098,531 327,360 164,206 102,446	4249 3493 2818 2135 1430 2044 1193 571 354	152 145 122 100 98 89 45 43	588 549 459 397 391 291 235 117 138	OM8A OM7M OM3RRC OM3KWZ	9,768,200 9,656,000 225,882 23,856	6064 6004 634 153	705 680 65 79	505 579 310 215
RU1A RL3A RT6A RK3DZB UA3R RC3W RK4FWX RK3GYM RK3K R24CWH RK4WWF RK3DZH KO10WZ RK3VWA R23HZW R23TZT RK4HYT RK3FWI	European Russia 7,979,527 7,717,864 6,502,176 785,294 3,626,368 3,280,672 2,626,815 2,400,968 2,309,720 2,085,555 765,324 642,584 603,720 603,290 555,255 484,704 271,584 247,355 14,601	5609 5851 5067 1381 4027 3480 2870 3034 3068 123 131 1311 1080 1080 914 1136 664 624 129	172 172 167 90 523 513 132 132 123 461 334 86 290 290 88 74 65 210 72	685 677 677 334 523 513 402 423 461 461 334 290 290 88 74 65 210 72	S53S S50L S51A S56P S54K SS9DEM ED5T EK1KV E2EK EA3HCY A02W EA1GA AM2T AM1A EH5T EA1HOE EA4SSG EA4BHK EA3MM A02A EA4RCT EA4URA	4,219,638 4,165,800 3,925,818 2,494,492 983,245 59,295	3428 3698 3441 2566 1634 297	138 503 503 127 350 43	559 503 590 328 350 134
OH5Z OH2BAH OH6K	Finland 3,845,640 645,840 471,420	3128 1074 757	159 99	580 261 312	ES5T EK1KV E2EK EA3HCY A02W EA1GA AM2T AM1A EH5T EA1HOE EA4SSG EA4BHK EA3MM A02A EA4RCT EA4URA	5,134,132 3,685,647 1,528,200 1,305,590 2,279,538 842,732 842,996 514,775 393,783 212,232 190,156 117,766 20,687 8,723 5,025	5437 5457 2862 2787 2264 2131 1639 1349 922 569 498 423 208 134 19	155 159 128 127 328 294 314 230 232 180 211 103 103 56	599 532 477 328 306 294 314 230 232 180 211 103 103 56
DM6CS DP9I DL10W DK5EZ DP3E DJ0A DL3G DF0DA DL0UM DK0GYB DK0ALK	Germany 4,519,931 2,410,715 1,240,797 1,213,866 1,062,147 776,135 718,256 1,078,356 321,062 191,011 43,920	3503 2711 1254 1246 1487 1196 89 74 753 696 256	153 112 403 412 386 309 305 290 250 221 95	614 460 460 412 386 309 305 290 250 221 95	JW7QIA SJ2W SK7OA SK0QO SK7A	3,024,504 1,326,682 3,900 1,458	2700 127 58 38	485 802 18 19	405 357 42 19
SZ1A	Greece 2,590,396	3258	138	514	HE8FR HB9LL HB9EI UT7L UT0AZA UY4WVA UR3QXX UR6WJW UR4PWC UT7AXA	624,438 285,264 129,823	1028 864 512	68 53 44	239 230 153
HG6N HA5KID	Hungary 10,186,302 16,065	6261 118	173 31	684 74	UK6NC VK4YN VK4WR VK4SN	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
4U11TU	Italy 15,092,576 1,411,480 1,308,306 1,264,032	8715 2091 2622 1964	173 99 90 98	699 396 348 415	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
4U19TU	Japan 3,251,500	2729	143	357	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
E19E	Ireland 3,052,532	3697	117	457	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
IR4M IR2C IO5D IR3Z IO3RK IZ0GKB IO4RN IO5MS IO2MG IO3UD IR6T IK2LTR IO5DY IOQ5F IR6D IO1TO	Latvia 2,849,245 331,055 226,252	3022 1054 967	128 86 43	513 279 186	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
LY1C0	Lithuania 756,860	1536	82	328	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
PA6V PI4RCK PI4ZOD	Netherlands 1,646,304 290,440 21,080	2003 786 213	110 418 96	413 218 96	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
LN3Z LN4B8C LN2L	Norway 4,440,800 86,052 15,762	3672 407 175	150 41 61	578 161 162	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
S09S S08A SN6Z SP9KDA S05A SP6PB SN5T SP7MC SP1KRF	Poland 5,761,900 5,195,478 4,432,956 1,058,780 878,592 553,536 535,800 437,580 168,226	4030 4004 3652 1577 1597 1072 1248 1248 736	158 155 145 412 346 346 264 264	627 567 578 412 346 346 264 264	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
C52P	Portugal 2,186,359	2706 113	403 377	434	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
IR4X IO5LU IR8A IR3Y	Italy 15,092,576 1,411,480 1,308,306 1,264,032	8715 2091 2622 1964	173 99 90 98	699 396 348 415	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
RW2F	Kaliningrad 10,104,720	7158	175	677	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
LY7Z LY2W	Lithuania 4,182,230 3,358,860	3599 144	140 435	545	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
Z37M	Macedonia 6,011,353	6750	147	556	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
PI4DX PI4COM PI4W PD2EDR	Netherlands 6,010,121 3,806,080 1,014,519 21,390	5447 153 1957 239	145 562 346 18	556 512 346 18	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
CR5T	Portugal 1,762,697	2410	95	348	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
YP2Y	Romania 165,426	571	52	185	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
GM6NX	Scotland 1,097,260	2013	87	328	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
OM0A	Slovakia 1,758,240	2571	108	420	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
SS2ZW	Slovenia 7,398,978	5686	156	597	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
AM3SSB ED5R AM1W AM5A AM1T	Bermuda 3,660,006	3992	103	310	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
VP2V/KNSH	British Virgin Islands 2,171,228	3825	83	215	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
VE3ML VE2DY VE3MS VE3D VE6FI VE6AO VE7SZ VE8EV	Canada 776,078 1,608,194 2,208,681 4,329,072 2,023,875 4,770,308 593,892	912 2673 1222 1244 346 125 109	67 76 101 163 89 125 70	279 237 356 351 226 306 164	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 148 148 55	574 358 229 213 148 148 55
4U1UN	United Nations HQ 7,770,832	7241	115	381	OE8T KH6MB YE0X YB1C YE1ZAL ZM4A DX1EVM LP1H P05B PY3UEB PT2CM PR5D PY2ESP ZW8T	2,947,850 1,407,528 309,465 178,728 97,410 18,666 8,470	2711 2581 670 558 410 174 22	151 358 229 213 1	