

Results of the 2011 CQ WW DX SSB Contest

BY BOB COX,* K3EST

Expanded Results on the Web

Editor's Note: Having so many logs submitted for the CQ WW SSB Contest is great, 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 (follow the links from <www.cq-amateur-radio.com>) for QRM, expanded top scores listings, and more. —W2VU

The radio conditions during the 2011 CQ WW DX SSB Contest were the best of the new cycle. The long-awaited cycle 24 finally showed real life. Contesters from all over the world turned on their rigs. What did they find? A dream contest unfolded over the weekend. Conditions went beyond expectations. If you listened on 10 meters, you found the band wall to wall with contesters from below 28.3 to above 29.2 MHz. It was a full megahertz of guys and gals having the time of their lives. After months of planning, building, and practicing, thousands of contesters took full advantage of the smiling ionosphere. It was a good time to introduce new contesters to the real fun of contesting. GM2T took up the challenge: "We introduced three new people to contesting—MM0VPR, MM6INS, and MM6KLZ. They were certainly buzzing after the contest. I think we converted them."

Reported here are the final results of the world's largest phone radio contest. Read on to see how you and your friends ended up. Everyone who operated the CQ WW last year was a winner.

High Power

Taking full advantage of his unique location in Morocco, Jim, W7EJ took CN2R to the world top spot. High power All Band traditionally has been the most prestigious category. Jim worked lots of 3-pointers from his Africa location. Not very far behind in second place was Juan, EA8CAC, operating EF8R. Juan averaged 194 QSOs/hour! Third place world and first place in Europe was Tonno, ES5TV guest operating from 4O3A. Taking second place in Europe and sixth in the world was Toni, OH2UA operating from the Azores as CR2X. From Luxembourg, Philippe, LX2A took LX7I to third place in Europe and ninth place world. Setting a new USA record, Doug, K1DG put his considerable skills to work to take the USA top position. He made over 9 million points! After years in the top ten, Mike, W9RE reached a new level of excellence by taking second place USA from

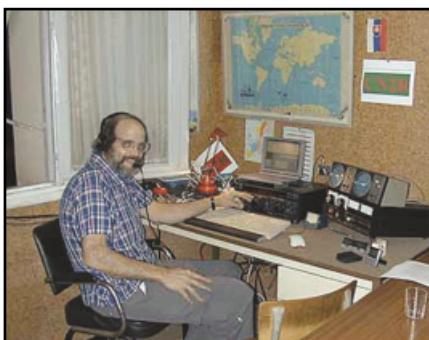
Indiana. Mike said, "Best rates I have ever had in 40 years of contesting!" Third place was taken by Steve, N2IC/5 located way out in New Mexico. Mike and Steve broke the long held NE USA winning pattern. The top west coast score was WC6H operated by Tim, NU6S. Very close races were seen between A61EE and A65EE and AC2AI/KH2 and WH2X. Other worthy efforts were: ZD8O (N5ZO), VU2PAI, 5Z4EE, J28RO, Z21BB, 8Q7DV, PJ5/SO6X, EY7AD, 9M2CQC, PZ5MM, A61EE, A65EE, TK5KP, GZ5Y, 9M6YBG, ZK2X, RI1ANC, and DU9RG. All had excellent scores from interesting locations.

The continental winners were: North America VE2IM; Africa CN2R; Asia UP0L; Europe 4O3A; Oceania NH7A; South America P40W; Japan JA0JHA (new Japan record); U.S. K1DG (new US record).

Low Power

Anyone can enter the low power category. Just turn on your transceiver and get on the air. This means that this category has the most entrants of any CQ WW category.

The top position in the world went to Wolf, OE2VEL operating from the EA8ZS plantation. Wolf takes home the world high trophy. Operating from beautiful Dominican Republic, Ted, HI3TEJ again took world second place. Doing a very fine job from Tunisia and taking third place in the world was 3V8SS operated by Ash, KF5EYY. Lithuania proved the place



Jim, W7EJ, at CN2R, #1 World High Power All Band.

The setup at CN2R, #1 World High Power All Band. →

to be in Europe—LY9A operated by Gedas, LY3BA won top honors in this tough category. Second place Europe went to low power champion, Manfred, DJ5MW. Taking Europe third place was another Lithuanian station, Remi, LY8O operating near Utena, about 100 km northeast from Vilnius.

This was a special year for low power in the US. Ed, N1UR not only took first place, he set a new US low power record. Moving up to second place was Terry, N4TZ/9 from Indiana. Third place US went to perennial top finisher Marvin, N5AW. Finishing well up in the standing from the far west were Bill K2PO/7, Guy, N7ZG, and Bill, N6RV.

The efforts of Angel, YV5NEA Tony, HC2/KF6ZWD (now HC2AC), Jason, VK2LAW, and Masa, JH4UYB must be recognized. TA2/DL7BC, EK3GM, V51YJ, DV1JM, OD5SSB, HZ1PS, XU7ACY, 5N6/YL2SW, TA1CQ, YC6JRT, VP9I, EE9K, CN8VO, VR2YYW, VU2NKS, EY8AR, and 9M2TO all had excellent scores and handed out great multipliers.

The continental winners were: North America HI3TEJ; Africa EA8ZS; Asia JH4UYB; Europe LY9A; Oceania VK2LAW; South America YV5NEA; Japan JH4UYB; U.S.: N1UR.

QRP

"Most impressive QSO I had was with E2E. I called him more than 40 minutes, and finally, he responded with 'You are whispering in the silence.' That's the beauty of QRP," said SP5DDJ. The QRP category calls upon an entrant to have the best antenna he can put up, hone SO2R skills, and finally, be lucky. Almost all QSOs by a QRP station are search and pounce. For the first time in a very long time the world scores were from challenging areas.

Coming out on top as world #1 was Randy, ND0C from southwestern Minnesota. He said, "What a blast! 10 meters was unreal: 94 countries and 30 zones with QRP from the 'Black Hole'. I had to force myself to leave 10 meters



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2011 WW DX SSB TROPHY WINNERS AND DONORS

SINGLE OPERATOR	SINGLE OPERATOR, SINGLE BAND	Carib./C.A.
World All Band CN2R (Opr.: James Sullivan, W7EJ) Donor: Southern California DX Club	World – 28 MHz ZX5J (Opr.: Sergio Almeida, PP5JR) Donor: Joel Chalmers, KG6DX	VP5DX (Oprs.: N4KE, AB4UF, N4EPD, NU4Y) Donor: Bob Raymond, WA1Z
World Low Power EA8ZS (Opr.: Wolfgang Klier, OE2VEL) Donor: Slovenian Contest Club	World – 21 MHz FY5KE (Opr.: Marc Sentuc, F1HAR) Donor: Robert Naumann, W5OV	Africa D4C (Oprs.: I4UHF, IK2NCJ, IZ4DPV, IZ4UEZ, I2BFWN, IT9SPB, IK1HJS)* Donor: Doc Sayre, W7EW
World QRP Randal Shirbroun, ND8C Donor: Jeff Steinman, N5TJ	World – 14 MHz Didier Bironneau, FY5FY Donor: North Jersey DX Assn. – K2HLB Memorial	Asia P33W (Oprs.: R3DCX, RV1AW, RW3QC, RW4WR, UA2FZ, RA3AUU, 5B4AIE) Donor: Edward L. Campbell, NX7TT AA6BB and KA6V Memorial
World Assisted P40A (Opr.: John Bayne, KK9A) Donor: Glenn Johnson, W0GJ	World – 7 MHz 4L0A (Opr.: Gia Gvaladze, 4L4WW) Donor: Fred Laun, K3ZO – K7ZZ Memorial	Japan JA8RWU (Oprs.: JA8CDT, JA8RWU, JE8KKX, JH8PNE/1, K3EST) Donor: Arizona Outlaws Contest Club
World Assisted Low Power P40P (Opr.: Robert Wood, W5AJ) Donor: Gail Sheehan, K2RED	World – 3.7 MHz EF8S (Opr.: Leppala Mauri, OH2BYS) Donor: Fred Capossela, K6SSS	Europe TM6M (Oprs.: F1AKK, F4DXW, F5MUX, F5TTU, F8CMF, F8DBF) Donor: Bob Cox, K3EST
U.S.A. Doug Grant, K1DG Donor: Potomac Valley R.C. – KC8C Memorial	World – 1.8 MHz Fabio Piccinin, I4FYF Donor: CQ magazine	Oceania KH6MB (Oprs.: AH6NF, AH6S, KH6MB, N0QO, W7TAE, W0CN, WH6R) Donor: Junichi Tanaka, JH4RHF
U.S.A. Low Power Edward Sawyer, N1UR Donor: North Coast Contesters	USA – 28 MHz William R. Tippett, II, W4ZV Donor: Donald Thomas, N6DT	South America PT5T (Oprs.: PP5XX, PP5EG, LU9ESD, LU8EOT, PP5RZ, PP5TR) Donor: Victor Burns, KI6IM – The Cuba Libra Contest Club
U.S.A. QRP Anthony Luscre, K8ZT* Donor: Pat Collins, N8VV	USA – 21 MHz Patrick Barkey, N9RV7/ Donor: 11PM Dayton Pizza Gang	MULTI-OPERATOR, TWO TRANSMITTERS World PW7T (Oprs.: PY3VK, PT7CB, PT7CG, PT7WA, PT7YY, PT7ZT, PY1NX, PY2SEX, PY7RP, PY8AZT) Donor: Array Solutions
U.S.A. Assisted Richard Di Donna, NN3W Donor: John Rodgers, WE3C	USA – 14 MHz Daniel Handa, W7WA Donor: Yankee Clipper Contest Club - KC1F Memorial	U.S.A. N1LN/4 (Oprs.: N1LN, N4YDU, W4KAZ, AD4L, KA1ARB, W4DTB, WW4M) Donor: Kimo Chun, KH7U & Mike Gibson, KH6ND Dan Robbins, KL7Y Memorial
U.S.A. Assisted Low Power James Bowman, KS1J Donor: CQ magazine	USA – 7 MHz Danford Kaeo, KF6A/8 Donor: Stanley Cohen, W8QDQ	Europe IR4X (Oprs.: I4AVG, I4EAT, I4TJE, I4VEQ, I4IKW, I4USC, I4YRW, IK4AUY, IK4BOY, IK4ZGO, I23EYZ, IZ4AFW, IK2QPR) Donor: Aki Nagi, JA5DQH
U.S.A. Zone 3 WC6H (Opr.: Timothy Coad, NU6S) Donor: Dave Pruitt, K8CC & Greg Surma, K8GL	USA – 3.7 MHz Joseph A. Gagliardi, Jr., AA1BU Donor: CQ magazine	Oceania AH0BT (Oprs.: W1FPW, W1NDE, KW2X, NA8O) Donor: Japan CQ Ham Radio
U.S.A. Zone 4 Mike Wetzel, W9RE Donor: Dave Pruitt, K8CC & Greg Surma, K8GL	USA – 1.8 MHz Manuel Fonseca, Jr., W2MF Donor: Glenn Johnson, W0GJ	MULTI-OPERATOR, MULTI-TRANSMITTER World C5A (Oprs.: OK1DIX, OK1DO, OK1FFU, OK1NY, OK1RI, OK1RK, OK8WW/OM2TW, OM5AW, OM6NM) Donor: Dave Leeson, W6NL and Barb Leeson, K6BL
Canada VE2IM (Opr.: Yuri Onipko, VE3DZ) Donor: Contest Club Ontario VE3WT Memorial	Carib./C.A. (21 MHz) ZF2AH (Opr.: Joseph F. Hypnarowski, W6VNR) Donor: Nate Moreschi, N4YDU	U.S.A. K3LR (Oprs.: K3LR, N2NC, N5UM, W3TX, W2RQ, W5OV, K3LA, K8CX, N2NT, K1AR, N3SD, K3UA, D6LAU, WM2H, N3GJ, LU7DW) Donor: Jim Lawson, W2PV Memorial
Caribbean/C.A. 6Y9X (Opr.: Paul Young, K1XM) Donor: Alex M. Kasevich, W1CDC	Carib./C.A. (14 MHz) Low Power Jose C. Vicens, NP4G Donor: Al Crespo, F5VHJ	Europe DR1A (Oprs.: DB6JG, DF6JC, DJ6ET, DJ7EG, DJ7EO, DK6XZ, DL1MGB, DL3ABL, DL3BCP, DL3DX, DL5CW, DL5LYM, DL6FB, DL8DYL, DL8WPX, DL9DRA, JK3GAD, PA1TX, PC5A) Donor: Finnish Amateur Radio League
Europe 4O3A (Opr.: Tonno Vahk, ES5TV) Donor: Potomac Valley R.C. – W4BVV Memorial	Carib./C.A. Assisted (28 MHz) Alejandro Valdez, XE1EE Donor: CQ magazine	Japan JA5FDJ (Oprs.: JA5FDJ, JM1UWB, JA5FBZ, JH5FIS, JH5RXS, JJ5GMJ, JR5IAH, JR5JAQ) Donor: Masahiro Kitagawa, JH3PRR
Europe Low Power Gediminas Lucinskas, LY9A) Donor: Scott Jones, N3RA & Tim Duffy, K3LR	Europe – 28 MHz Slaven Galic, E77A Donor: Charles Dietz, W5PR	Oceania KH7X Donor: Tack Kumagai, JE1CKA JR2GMC & JA9SSY Memorial
Europe QRP Sergey I. Smolka, UX2MF Donor: CQ magazine	Europe – 21 MHz GI5K (Opr.: Chris Smith, MI6LLL) Donor: Tine Brajnik, S50A	CONTEST EXPEDITIONS World Single Operator 8Q7DV (Opr.: Vadim Ovsyannikov, R9DX) Donor: National Capitol DX Assn. Stuart Meyer, W2GHK Memorial
Europe Assisted YP9W (Opr.: Tiberiu Tebeica, YO9GZU) Donor: Gail Sheehan, K2RED	Europe – 14 MHz Siggi Jakobsson, TF3CW Donor: Charles Wooten, NF4A	World Multi-Single TX5A (Oprs.: RK7A, R3FA, UR5MID, US7UX, UT5UY, UU4JMG, UX0LL, US0KW, UA7A, RM2U) Donor: Gail Sheehan, K2RED
Europe Assisted Low Power Kristjan Kodermac, S50XX Donor: CQ magazine	Europe – 7 MHz TM9R (Opr.: Michel Rousselet, F5FLN) Donor: John Warren, N15C	World Multi-Multi E51Z (Oprs.: AB6BH, N6AA, N6UWW, N6VI, VK4UC, W5NYW, W6NV, W6XD, WB6BFG) Donor: CQ magazine
Russia Oleg Ussov, UA9CDV Donor: Roman Thomas, RZ3AA	Europe – 3.7 MHz Steve Cole, GW4BLE Donor: Ted Demopoulos, KT1V	*Second place.
Africa EF8R (Opr.: Juan Hidalgo, EA8CAC)* Donor: CQ magazine	Europe – 1.8 MHz Tomislav Polak, 9A2AJ Donor: Robert Kasca, S53R	
Asia UP0L (Opr.: Vladimir V. Vinichenko, UN9LW) Donor: CQ magazine	Oceania (28 MHz) Fred K. Honnold, KH7Y Donor: Bruce D. Lee, KD6WW	
Japan Akira Minagawa, JA0JHA Donor: Tack Kumagai, JE1CKA	Asia – 14 MHz UP2L (Opr.: Grigory P. Smirnov, UN9LG) Donor: Charles Shinn, W5PG	
Japan Low Power Masaki Masa Okano, JH4UYB Donor: Western Washington DX Club	MULTI-OPERATOR, SINGLE TRANSMITTER World CR3A (Oprs.: CT1BOH, CT1FFU, CT3BD, CT3DL, CT3DZ, CT3EE, CT3EN, CT3KU) Donor: So. Calif. DX Club – W6AM Memorial	
Oceania NH7A (Opr.: James Neiger, N6TJ) Donor: Northern California DX Club	U.S.A. K1LZ (Opr.: K0DXC, K1LZ, K1VR, KY1V, K3JO, N8BO) Donor: Carolina DX Association	
South America P40W (Opr.: John Crovelli, W2GD) Donor: Yankee Clipper Contest Club		



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The ED1R M2 #3 Europe crew, left to right: EC1KR, EA4TD, EA4AOC, EC4DX, EA7FTR, EB7DX, EC7AKV.

to pick up multipliers on 15 and 20." Finishing just behind for second world was Doug, VA3DF located on the western shores of Lake Ontario. Long-time top ten QRP entrant Izuno-san, JR4DAH took third place world and #1 Asia. Finishing second in the US was Anthony, K8ZT from Ohio. Third place USA went to a familiar QRPer, Doug, KR2Q. The highest USA score from zone 3 was W6QU operated by Bill, W8QZA. Taking first place in Europe was Sergey, UX2MF. Second place went to Boyan, LZ2SX. European third place honors went to Sergey, RN4HAB. RU9UN, NT4TS, NP2Q,

RW3AI, EA1GT, VK4ATH, and G3R are to be congratulated for their outstanding efforts.

The continental winners were: North America ND0C; Africa J28AA; Asia JR4DAH; Europe UX2MF; Oceania YC2VEJ; South America PY2BN; Japan JR4DAH; U.S.: ND0C.

Assisted

Doing well in an assisted category requires a skilled tradeoff between spots and running. Too much emphasis on packet callouts will not bring you a win. This category allows an entrant to

utilize any public spotting network. A reminder: Use of any QSO spotting tool places you in the Assisted category. Why not try to win one of the new assisted awards? Taking control of the world top spot was John, KK9A operating from P40A. Finishing second place in the World and first in the US was Rich, NN3W, quite an accomplishment from Maryland. Alex, A65BP a long time resident in Dubai took the third spot. First place in Europe went to YP9W operated by Tiberiu, YO9GZU a member of the World Wide Young Contesters. Second place Europe goes to Andy, SP8BRQ operating SO8A located in southeastern Poland. Imanol, EC2DX took third from beautiful San Sebastian.

Second place USA went to Lee, W2RE operating in the northern Catskill of New York. Third place in the U.S. went to long time assisted expert, Charles, K3WW. The fine effort of Robert, S50R from ST2AR handing out a double multiplier to most entrants, as well as the efforts of Hiroyuki, JS3CTQ and Nobuyuki, JH1EAQ must be recognized. The efforts of some very good multipliers need to be recognized as well: A65BP, FP/K1VJ, V55A, 6V7Q, TA3IW, BA4DL, JT1RF, XV1X, UA2FX, HB0/SP7VC, LX5T, NH2T, NH0S, and DU1VT.

The continental winners were: North America NN3W; Africa ST2AR; Asia A65BP; Europe YP9W (YO9GZU); Oceania WH7M; South America P40A (KK9A); Japan: JS3CTQ; U.S.: NN3W.

Assisted Low Power

The separate listing of the low power assisted entrants has spurred a renaissance in assisted submissions. Many were happy to see the

creation of separate categories for low and QRP assisted. We hope that many entrants will choose to try the low power assisted category. The world winner in this tough category was Robert, W5AJ operating from P40P. Robert put his Aruba location to good use. Second place in the world was Richard, N0HJZ, who put

C6ARW in many logs from Grand Bahama Island. Third place in the world went to a station from zone 20, H22H, operated by Spyros, 5B4MF located in central Cyprus. First position in Europe was taken by Kristjan, S50XX located in western Slovenia. Even though Frank, DL2CC is a CW high-speed champion, he

talked himself into second place Europe. Third place went to Tim, RL6M, who runs 100 watts all the time even on Top band. In the U.S., KS1J took away top honors and the U.S. low power assisted trophy. Second place went to Jerald, KT4ZB located in the coastal city of Savannah, Georgia. Lyle, WE9R located on the western

2011 CQ WW DX SSB TOP SCORES

WORLD		28 MHz		Multi-Operator Multi-Transmitter		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
Single Operator All Band		GW9T	1,544,965	C5A	45,227,120	W2RE	8,916,000	S50G	1,026,948	OG73X	1,377,090	GI5K	1,844,073	TF3CW	1,381,212	SP3GEM	355,927	S50XX	2,499,956	OK6W	104,544		
CN2R	18,518,160	PR2P	1,488,628	K3LR	36,033,540	K3WW	6,394,432	TM0T	1,021,410	OL9Z	1,257,057	CS2C	1,534,872	E55RW	1,181,579	SP5LS	198,474	DL2ARD	1,890,840	YT7A	609,718		
EF8R	15,837,486	KG6DX	1,451,100	DR1A	33,099,129	W3UA/1	6,315,367	CR3L	31,899,392	Y7TAW	1,232,952	YT1VP	544,416	VY2TT	1,509,759	S56X	478,431	XV9DX	1,373,810	K0KX	5,158,556		
403A	14,485,037	DL2ARD	1,890,840	KH7X	31,899,392	K0KX	5,158,556	CR3L	31,581,780	K2SSS	1,029,347	K2PLF/3	815,108	TF3CW	1,381,212	SP3GEM	355,927	W2RE	8,916,000	OL9Z	1,257,057		
VE2IM	14,451,340	VY2TT	1,509,759	N4BP	846,022	W3UA/1	6,315,367	W2RE	8,916,000	TF3CW	1,381,212	E55RW	1,181,579	TF3CW	1,381,212	SP3GEM	355,927	W2RE	8,916,000	OL9Z	1,257,057		
P40W	14,427,240	XV9DX	1,373,810	K2PLF/3	815,108	W3UA/1	6,315,367	W2RE	8,916,000	TF3CW	1,381,212	E55RW	1,181,579	TF3CW	1,381,212	SP3GEM	355,927	W2RE	8,916,000	OL9Z	1,257,057		
28 MHz		14 MHz		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
ZX5J	2,872,600	9Y4D	2,300,920	K1DG	9,459,060	N4PN	1,005,125	K1DG	9,459,060	N4PN	1,005,125	W3FW	247,032	WA2AOG	5,760	W3FW	247,032	TM9R	916,874	OK6W	104,544	S50XX	2,499,956
FY/F5HRY	2,747,113	IR4M	1,469,109	W9RE	7,354,204	N7DD	999,999	W9RE	7,354,204	N7DD	999,999	W9IIX	194,656	WA2AOG	5,760	W9IIX	194,656	YT8A	815,226	LY5E	104,468	DL2ARD	1,890,840
AY5F	1,896,720	OG73X	1,377,090	N2IC/5	5,843,750	KV0Q	758,632	W9RE	7,354,204	N2IC/5	5,843,750	WR2G	138,320	WA2AOG	5,760	WR2G	138,320	EU1A	619,840	LY7M	61,292	RL6M	2,027,220
21 MHz		7 MHz		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
FY5KE	2,794,092	RU9CK	793,321	N9RV/7	1,045,785	N6SS/7	147,312	N9RV/7	1,045,785	N6SS/7	147,312	W3FW	247,032	WA2AOG	5,760	W3FW	247,032	TM9R	916,874	OK6W	104,544	S50XX	2,499,956
G15K	1,844,073	JAB8WKE	616,350	WA3A	811,920	N8BI	129,413	WA3A	811,920	N8BI	129,413	W9IIX	194,656	WA2AOG	5,760	W9IIX	194,656	YT8A	815,226	LY5E	104,468	DL2ARD	1,890,840
EY8MM	1,651,468	YT7A	609,718	WA7LT	312,984	KD4RH	58,298	WA7LT	312,984	KD4RH	58,298	WR2G	138,320	WA2AOG	5,760	WR2G	138,320	EU1A	619,840	LY7M	61,292	E74AA	1,713,348
14 MHz		3.7 MHz		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
FY5FY	2,275,364	SP3GEM	355,927	N9RV/7	1,045,785	N6SS/7	147,312	N9RV/7	1,045,785	N6SS/7	147,312	W3FW	247,032	WA2AOG	5,760	W3FW	247,032	TM9R	916,874	OK6W	104,544	S50XX	2,499,956
UP2L	1,411,498	4L50	291,040	WA3A	811,920	N8BI	129,413	WA3A	811,920	N8BI	129,413	W9IIX	194,656	WA2AOG	5,760	W9IIX	194,656	YT8A	815,226	LY5E	104,468	DL2ARD	1,890,840
TF3CW	1,381,212	SP5LS	198,474	WA7LT	312,984	KD4RH	58,298	WA7LT	312,984	KD4RH	58,298	WR2G	138,320	WA2AOG	5,760	WR2G	138,320	EU1A	619,840	LY7M	61,292	E3VAO	1,687,556
7 MHz		1.8 MHz		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
4L0A	1,029,528	OK6W	104,544	W7WA	1,075,220	NX5M	5,376	NX5M	5,376	NX5M	5,376	W3FW	247,032	W3FW	247,032	W3FW	247,032	TM9R	916,874	OK6W	104,544	S50XX	2,499,956
TM9R	.916,874	LY5E	104,468	WB2REM/4	312,988	K6HNZ	196,554	K6HNZ	196,554	K6HNZ	196,554	W9IIX	194,656	W9IIX	194,656	W9IIX	194,656	YT8A	815,226	LY5E	104,468	DL2ARD	1,890,840
YT8A	.815,226	LY7M	61,292	K6HNZ	196,554	K6HNZ	196,554	K6HNZ	196,554	K6HNZ	196,554	WR2G	138,320	WR2G	138,320	WR2G	138,320	EU1A	619,840	LY7M	61,292	E3VAO	1,687,556
3.7 MHz		Low Power All Band		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
EF8S	.455,686	P40P	8,231,580	KF6A/8	97,128	KS1J	2,593,367	K2MFY	293,124	K2MFY	293,124	OZ5E	309,141	RZ1ZZ	414,720	UY9A	3,463,992	TF3CW	1,381,212	SP3GEM	355,927	S50XX	2,499,956
GW4BLE	.255,960	KP4KE	7,044,246	W8BLA/4	34,920	KT4ZB	2,220,680	W6FA	281,248	W6FA	281,248	OK2VWB	192,325	I27PDX	.427,200	DJ5MW	3,206,883	TF3CW	1,381,212	SP3GEM	355,927	DL2ARD	1,890,840
DR1D	.236,176	C6ARW	3,131,820	WD0BGZ	25,666	WE9R	1,878,075	N2FF	247,456	N2FF	247,456	UT7LA	168,572	SP5GRM	.445,230	W3FW	194,656	TF3CW	1,381,212	SP3GEM	355,927	DL2ARD	1,890,840
1.8 MHz		21 MHz		28 MHz		21 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
I4FYF	.75,180	H22H	3,006,224	W3GH	2,652	N8AA	1,896,480	N9TGR	270,312	N9TGR	270,312	RZ1ZZ	414,720	UT9MZ	.147,980	DJ5MW	3,206,883	TF3CW	1,381,212	SP3GEM	355,927	DL2ARD	1,890,840
9A2AJ	.63,222	KS1J	2,593,367	KD4Z	1,938,336	N8AA	1,896,480	N4IJJ/5	244,530	N4IJJ/5	244,530	I27PDX	.427,200	EF7W	.105,062	W3FW	194,656	TF3CW	1,381,212	SP3GEM	355,927	DL2ARD	1,890,840
VE3PN	.54,207	28 MHz		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
All Band Low Power		28 MHz		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
EA8ZS	6,464,409	VK8DX	1,280,734	AA1BU	127,365	AA9A	30,573	K1KNQ/4	26,892	K1KNQ/4	26,892	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652
HI3TEJ	5,949,138	XE1CQ	964,302	W2MF	15,876	W2MF	15,876	W2MF	15,876	W2MF	15,876	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652
3V8SS	4,308,878	EA3DX	600,048	K5RX	6,118	N5AW	2,256,942	AD4Z	1,938,336	N8AA	1,896,480	N7LT	99,674	N7LT	99,674	N7LT	99,674	N7LT	99,674	N7LT	99,674	N7LT	99,674
N1UR	3,948,424	DL5RDP	447,500	K1VSJ	298,224	K2PS/3	378,664	AC50	345,708	K1VSJ	298,224	AC50	345,708	K1VSJ	298,224	K1VSJ	298,224	K1VSJ	298,224	K1VSJ	298,224	K1VSJ	298,224
21 MHz		7 MHz		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
A52AB	.918,260	UT9MZ	147,980	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652	W3GH	2,652
CN4P	.812,490	EF7W	105,062	Y05Q	.97,136	K2PS/3	378,664	KF6A/8	97,128	K2PS/3	378,664	KF6A/8	97,128	K2PS/3	378,664	K2PS/3	378,664	K2PS/3	378,664	K2PS/3	378,664	K2PS/3	378,664
RZ1ZZ	.414,720	UT7X	.67,405	F1EBN	.64,902	AC50	345,708	W8BLA/4	.34,920	AC50	345,708	W8BLA/4	.34,920	AC50	345,708	AC50	345,708	AC50	345,708	AC50	345,708	AC50	345,708
7 MHz		1.8 MHz		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
CO8ZZ	.201,977	SP1GZF	.40,560	HA8BE	.24,024	W7WA	.40,560	UT5UGR	.13,338	W7WA	.40,560	W7WA	.40,560	W7WA	.40,560	W7WA	.40,560	W7WA	.40,560	W7WA	.40,560	W7WA	.40,560
UY2UO	.109,557	HA8BE	.24,024	UT5UGR	.13,338	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702
EI4CF	.79,778	3.7 MHz		21 MHz		28 MHz		UNITED STATES		21 MHz		28 MHz		14 MHz		7 MHz		3.7 MHz		Low Power All Band			
UU2JM	.57,760	UT7X	.67,405	F1EBN	.64,902	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702	W2TF	.127,702
NA8V	.40,753	RT4W	.683,439	W3GH	.107,101	W3GH	.107,101	W3GH	.107,101	W3GH	.107,1												

shores of Lake Michigan rounded out the top three U.S. scores. From the U.S. west, K7FA and AD1C/0 turned in a fine scores. A few of the nice multipliers on in this category were: KG4EM, H22H, EY7BJ, TK4LS, TA1ED, YB0MWM, BD4CD, UN7MMM, and 6K5AQY.

The continental winners were: North America C6ARW; Africa EA8MT; Asia H22H; Europe S50XX; Oceania VK8DX; South America P40P; Japan: JR4PMX/1; U.S.: KS1J.

Multi-Single

The number of callsigns participating in the MS category was about 1,929 representing 364 different teams! This fun category allows for more than one person to contribute to the score. A run station and a multiplier station allow for good use of different skills. The second operator actual has something to do which requires skill: find multipliers. "Wow! 10 meters—all 40 zones, 144 DXCC entities. With our modest setup, it was great fun," said 9A6B.

A new multi-single world record was set by the team at CR3A. They took full advantage of the outstanding conditions by making over 10,600 QSOs mostly with one radio! In second place was the Italian team from D4C. They had the highest multiplier count of the top three world MS. Rounding out third place was the multi-national team from CN3A. All three top MS were from northwestern Africa. The continent with the most multi-single operations has always been Europe. Moving up to the top position in Europe was TM6M. Located on the far western tip of France, the TM6M team set a new European record. Quite an accomplishment! Second place went to the East Cork Radio Group, EI7M. They commented, "We found 10m to be a revelation—all 40 zones worked for the first time. It's really strange to work KL7 on 10m and be disappointed that it is not a multiplier!" Third place in Europe went to the multi-national team E7DX located just northwest of Banja Luka. Once again in the U.S. Krassy's team at K1LZ took full advantage of the category's possibilities and registered 12-plus million points. This was enough to set a new USA MS record! Moving up to second place USA was N5DX. The team from Harrison, Arkansas had over 10-million points and an outstanding multiplier. Third place went to the perennial top finishing team at K8AZ. W6YI took top honors from the U.S. West Coast, followed by K7RL. Great job, guys! Some of the rarer ones appearing in many logs were: HU1YS, ST2UOK, TS2A, YM7KA, VR2EH, JT5DX, E2E, T70A, JW5E, and TX5A. A special mention must be made of the effort from P33W. On their way to finishing fourth in the world, they set a new Asia record.

The continental winners were: North America VE3EJ; Africa CR3A (new World record); Asia P33W (new record); Europe TM6M (new record); Oceania KH6MB; South America PT5T; Japan: JA8RWU; U.S.: K1LZ (new record).

Multi-Two

A competitive M2 is a challenge. The world's top team used seven operators to bring home the trophy. The PW7T, Fortaleza DX Group put Brazil in a lot of logs! PW7T says, "On Sunday afternoon, the shack got very noisy celebrating the last zone worked for a triple all zones on 10, 15, and 20m. Then the team shouted again when they put the 11,000th QSO in the log. We

2011 WW DX SSB TOP SCORES IN MOST ACTIVE ZONES

Zone 3	Zone 15
WC6H.....3,760,953	403A.....14,485,037
K6XX.....2,744,268	OE3K.....9,343,197
CF7FC.....2,622,034	SO8A.....8,032,243
K6NA.....2,587,265	TK5KP.....7,960,428
W6PH.....2,527,910	OH8X.....7,585,591
Zone 4	Zone 16
CF3A.....10,746,264	UU7J.....6,179,560
VE3JM.....7,754,556	RT4RO.....4,469,654
W9RE.....7,354,204	RM3F.....4,370,232
N2IC/5.....5,843,750	EW2A.....3,623,811
KU1CW/0.....5,207,492	RW4W.....3,401,456
Zone 5	Zone 20
VY2ZM.....12,870,747	C4W.....9,477,272
NN3W.....11,828,236	YP9W.....8,237,169
K1DG.....9,459,060	YO3CZW.....3,081,320
W2RE.....8,916,000	*H22H.....3,006,224
K3WW.....6,394,432	LZ3FN.....2,399,958
AA3B.....5,072,761	
Zone 14	Zone 25
CR2X.....13,947,024	JA0JHA.....7,455,510
LX7I.....10,218,312	JS3CTQ.....5,040,574
EC2DX.....8,014,248	JH1EAQ.....4,046,502
CR6K.....7,389,200	JQ1BVI.....3,045,686
EA6SX.....6,810,420	JA6LCJ.....2,889,768
	*Low Power

overcame the PY record by 52%." Not far behind was the multi-national team of PJ4T. Finishing out the top three world results was the famous team from IR4X. They set a new European record along the way to taking third place world and first place in Europe. Moving up into second place Europe was PI4DX, Contest Group Zeeuws-Vlaanderen. Third place in Europe went to ED1R, the PAPA3 Contest Club. Located in Chapel Hill, North Carolina, the operators of N1LN/4 proved they were up to the task by taking first place in the U.S. KB1H's station in northeastern Connecticut took second place U.S. honors. Andy's team at K2LE/1 took third place U.S. The far west U.S. station N7AT representing the Arizona Outlaws Contest Club did a great job from Arizona. There were several stations that put nice multipliers on the air and made big scores: EE9Z, KL7RA, AH0BT, 7Z1SJ, VP2MDG, B1Z, OJ0X, YE0X, ZM4T, DX1M, and CE4CT.

The continental winners were: North America KL7RA; Africa EE9Z; Asia 7Z1SJ; Europe IR4X (new record); Oceania AH0BT; South America PW7T; Japan No entry; U.S.: N1LN/4.

Multi-Multi

The conditions at last met expectations. How good were conditions? Look at the MM breakdown tables. The top three world MM stations made over 46,000 QSOs! A team of nine operators from the Czech and Slovak Republics put in a lot of hard work at C5A. For their efforts they took away the multi-multi world crown. They said, "Our second M/M effort from the beach in Gambia. We had a lot of problems before the contest but finally everything was sorted out and we were able to come with a decent station on the air." The K3LR team finished second in the world and set a new USA MM record! The K3LR team seems to enjoy the intense competition in the Multi-Multi category. They appear to have lots of fun, too! Topping the old USA MM record set by KC1XX in 1999 was not easy. What will happen in the 2012 CQWW Phone contest? DR1A finished third in the world and set a new European record.

2011 CQ WW DX SSB BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs/Zones/Countries on each band

WORLD SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CN2R	263/13/58	633/19/63	1118/28/100	1753/36/124	1654/34/112	2988/37/136
EF8R	79/9/25	158/10/36	730/24/75	2657/37/118	1933/36/101	3760/33/151
403A	229/12/60	651/22/84	1319/32/109	1712/38/124	1944/40/139	2331/39/134
VE2IM	116/10/14	654/17/71	843/28/102	1746/36/125	2007/35/120	2291/35/117
P40W	98/10/22	568/19/72	542/25/85	1574/35/104	1552/35/104	3332/33/110

WORLD SINGLE OPERATOR ASSISTED ALL BAND

P40A	69/8/14	469/17/62	829/29/89	1616/32/109	2277/35/123	2218/35/116
NN3W	63/13/33	294/24/85	854/34/118	982/40/143	1121/38/153	1607/36/151
A65BP	115/11/39	150/12/49	735/30/103	839/36/130	864/36/137	1760/38/159
ST2AR	0/0/0	30/7/25	131/25/68	772/39/106	1004/36/116	3324/39/130
W2RE	32/9/25	302/22/81	414/31/98	945/39/125	1168/36/126	1391/33/118

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

CR3A	57/15/56	141/22/82	1743/33/125	2310/39/148	1771/40/157	4649/40/165
D4C	93/19/70	359/31/100	1007/33/116	2296/39/151	2150/40/160	3741/40/157
CN3A	83/10/53	460/25/93	830/33/114	2466/40/151	1323/40/158	4358/40/165
P33W	276/12/66	310/24/88	1421/35/119	2103/40/152	2287/40/155	2965/40/163
TM6M	163/15/67	601/25/94	1319/36/127	1844/40/149	2018/40/156	2699/40/166

WORLD MULTI-OPERATOR TWO TRANSMITTER

PW7T	7/5/7	323/21/67	1573/34/115	2490/39/145	2849/40/158	3591/39/162
PJ4T	66/7/11	779/21/75	2017/32/109	2309/35/110	3666/38/131	3508/35/105
IR4X	164/13/65	874/24/94	1772/37/127	1640/38/150	2879/40/160	2407/40/168
EE9Z	141/8/40	910/19/76	1081/21/86	2002/33/117	2554/33/115	2860/31/96
PS2T	2/2/2	22/15/18	658/31/92	1802/39/142	2660/39/154	3320/39/147

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

C5A	202/17/51	1104/27/93	1816/32/110	4229/40/151	3807/39/145	6379/40/159
K3LR	441/18/66	1006/30/110	2224/37/136	3173/40/171	3454/40/169	3008/37/166
DR1A	932/16/75	1793/23/97	2995/38/142	4238/40/169	3058/40/163	2567/40/168
KH7X	245/12/15	986/33/56	1867/35/99	2724/39/132	3397/36/135	5299/39/153
CR3L	246/10/55	796/18/81	1787/31/109	3368/39/145	2985/39/149	3653/39/145



AI, F5VHJ, operated from TO5A.

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K1DG	72/12/42	281/22/77	461/28/91	796/37/106	1167/34/121	1922/33/121
W9RE	32/10/17	155/23/67	571/30/95	802/38/113	1069/33/110	1235/30/110
N2IC/5	19/9/10	111/20/51	641/31/79	340/34/92	845/37/108	1545/34/120
AA1K/3	40/13/21	141/15/52	248/26/77	601/36/101	661/32/90	1699/33/117
K1TO/4	6/3/5	98/16/47	123/21/55	738/38/110	450/30/87	2160/36/117

USA SINGLE OPERATOR ASSISTED ALL BAND

NN3W	63/13/33	294/24/85	854/34/118	982/40/143	1121/38/153	1607/36/151
W2RE	32/9/25	302/22/81	414/31/98	945/39/125	1168/36/126	1391/33/118
K3WW	45/9/23	148/20/75	231/27/91	816/37/122	592/33/119	1433/32/116
W3UA/1	18/7/11	240/19/68	558/26/103	656/33/101	905/32/107	1073/30/110
K0KX	13/6/5	45/15/32	172/24/79	517/40/124	648/39/132	1323/35/145

USA MULTI-OPERATOR SINGLE TRANSMITTER

K1LZ	70/16/54	417/22/94	805/33/114	1008/38/144	1222/39/152	1425/37/156
N5DX	39/13/28	128/26/79	720/34/108	868/40/138	1155/39/146	1944/38/156
K8AZ	30/12/29	189/25/83	487/32/108	548/40/143	1284/38/144	1328/34/144
W2FU	27/11/25	271/21/83	469/31/106	542/39/135	1058/39/144	1472/37/148
N4WW	22/10/21	147/24/84	356/31/104	796/39/137	1301/39/146	1108/37/147

USA MULTI-OPERATOR TWO TRANSMITTER

N1LN/4	69/11/22	360/18/69	498/27/95	1069/39/125	1076/36/129	1571/37/145
KB1H	27/9/14	245/20/80	370/30/99	558/38/128	1134/36/130	1587/35/142
K2LE/1	23/7/12	173/18/74	266/25/83	417/38/115	1130/34/125	1324/36/138
W5RU	12/6/11	142/20/65	250/30/89	420/39/115	795/39/137	1368/35/139
K2AX	14/7/7	196/19/66	257/23/88	532/39/122	658/36/125	1291/35/139



Randy, ND0C, was #1 World QRP.

Congratulations, guys! Two new continental records from the top three! The competition in the USA for the top MM spot was wonderful. In the US, all three top finishers broke the old US MM record! After K3LR, Matt's KC1XX team took second place. In third place was Frank's team at W3LPL. Great job by everyone. DR1A not only set a new European record, they beat the old record by 5-million points! Their operators did a great job. In second place was radio club Porec, 9A1P with a beautiful take-off towards the Adriatic sea. Third place went to C37N. What a great job they did putting Andorra on the air. Special mention must be made of the outstanding efforts by JA5FDJ (a new JA record), JA3YBK, CR3L, A73A, KH7X, OT5A, LZ9W, 9A1P, DF0HQ, PJ2T, LP1H, NK7U, and K7ZSD.

The continental winners were: North America K3LR; Africa C5A; Asia A73A; Europe DR1A (new record); Oceania KH7X; South America PJ2T; Japan JA5FDJ (new record); U.S. K3LR (new record).

Team Contesting

- WWYC Strike Team Alpha:** 4O3A (ES5TV), CR2X (OH2UA), PZ5MM (DK1MM), NN3W, LX7I (LX2A): **59,950,079**
- Neiger's Tigers:** CN2R (W7EJ), TO5A (F5VHJ), NH7A (N6TJ), ZD8O (N5ZO): **40,351,249**
- Team Aruba:** P40A (KK9A), P40P (W5AJ), P40W (W2GD): **36,198,820**

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
403A	229/12/60	651/22/84	1319/32/109	1712/38/124	1944/40/139	2331/39/134
CR2X	271/14/58	483/20/70	913/30/93	2058/36/112	2276/38/112	2961/34/111
LX7I	373/12/59	515/15/72	1003/26/87	1500/32/91	1211/33/94	2148/32/95
OE3K	176/10/50	516/16/64	1094/27/91	1415/33/103	1566/36/101	1753/34/92
TK5KP	291/10/52	591/16/68	768/23/81	1454/32/105	1236/31/107	1728/33/93

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

YP9W	133/8/50	217/15/68	1113/29/101	1133/38/123	1630/37/124	1256/36/118
S08A	74/10/36	321/16/74	896/35/114	805/36/116	1138/39/128	1284/39/130
EC2DX	79/9/51	244/19/79	568/31/102	1010/38/119	1474/37/132	1117/40/135
EB3CW	0/0/0	337/14/63	478/25/92	1251/40/140	1361/39/140	834/40/122
TM7F	139/6/44	372/14/55	266/20/74	942/33/97	1004/31/88	1603/36/104

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

TM6M	163/15/67	601/25/94	1319/36/127	1844/40/149	2018/40/156	2699/40/166
E17M	145/13/65	458/18/85	1581/34/114	1699/40/146	1945/39/149	2776/40/153
E7DX	266/11/65	1069/27/98	1070/35/125	1761/38/154	1632/40/158	2416/40/165
OM8A	122/14/68	359/24/96	1472/35/128	1615/40/151	1813/40/155	2013/40/160
RL3A	112/13/66	716/28/102	1381/39/130	2298/40/151	1867/39/155	1550/40/158

EUROPE MULTI-OPERATOR TWO TRANSMITTER

IR4X	164/13/65	874/24/94	1772/37/127	1640/38/150	2879/40/160	2407/40/168
ED1R	200/12/60	1012/24/88	1579/31/111	1260/39/135	2046/38/139	2475/39/137
PI4DX	348/11/59	767/20/79	1319/31/107	1504/35/126	1862/39/143	2582/39/148
HG1S	185/10/55	702/20/82	1471/36/124	2029/39/141	2054/39/148	1453/39/139
HG7T	252/9/49	751/17/75	1575/33/112	2003/37/129	1602/36/131	1866/40/127

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

DR1A	932/16/75	1793/23/97	2995/38/142	4238/40/169	3058/40/163	2567/40/168
9A1P	872/15/71	1767/19/87	3168/34/132	3393/39/159	2223/40/154	2360/40/155
C37N	904/15/69	2139/24/97	2665/29/109	3795/35/130	3314/34/124	2191/29/102
OT5A	1039/13/69	1416/18/78	2298/33/118	2699/40/154	2418/39/150	2217/40/129
DF0HQ	871/15/71	1660/25/97	2488/37/127	2610/40/156	1670/40/157	1316/40/149

4. DXE Super Dawgs: XE1EE, EF8R, XE2S, XE3TT, XE2B: **18,134,859**

5. Contest Group du Quebec team: VE2EBK, VA2WA, VE2IM (VE3DZ), VA2OP: **17,976,925**

6. Carolina DX Association: K3XC/4, KI4TZ, KZ2I/4, N4ZC, W3GQ/4: **12,661,490**

7. Kaunas Technical University RC: LY1R, LY2J, LY4T, LY6A, LY9A: **10,962,776**

8. Team Orca: VA7ST, VA7BEC, VC3R (VE7VR), VE7XF, CF7FC (VA7FC): **8,677,676**

9. Minnesota Wireless Assoc. Team Mosquito: KØAD, KØKX, KØOB, KØRC, KØSV: **7,099,989**

10. Maritime Contest Club #1: VE9HF, VE1JS, VE1ZD, VA1MM, VY2LI: **4,093,185**

11. VK Contest Club Team – Kookaburras: VK2BO, VK6DXI, VK3TDX, VK8HPB, VK2IM : **4,052,812**

12. Minnesota Wireless Assoc. Foreign Legion: A51B, A52IR, A52PC, C6ARW, KP2/KØBBC: **3,691,111**

13. Minnesota Wireless Assoc. Team Loon: AE5E/0, KR5DX/Ø, WØERP, WBØN, WN4GMT/Ø: **2,177,033**

14. Maritime Contest Club #2: VE9AA, VE1ZA, VE1OP: **1,819,208**

15. DXE Cats: XE3N, XE3DX, XE1CT, EA8MT: **1,671,384**

16. Minnesota Wireless Assoc. Team Eelpout: NØANP, NØBK, NØBUI, NØKK: **1,391,777**

17. Order of Boiled Owls: KS2G, N2FF, N2MUN, N2GA, K2RB: **1,082,849**

18. DELARA Team: KQ8RP, N9AUG/8, W8KTQ, KV8Q: **826,782**

19. DXE Dawgs: XE1YYD, XE1AY, KK1Z, N6AN, YW5W: **615,397**

20. Skyview Radio Society: K3RMB, W3GH: **68,067**

21. GM4AAF Dundee Amateur Radio Club: MMØSVK, MMØDXD: **67,446**

Records

With conditions outstanding on the high bands, you might expect many records to fall. Many did, especially in the assisted categories. Records



Andy, UA3DPX, operating RM3F.



Adam, SP4CUF, All Band, Low Power, Poland.

exist for every mode in every country and continent. Take a look at the records (cqww.com) as you might find one you have a chance to beat. Outstanding efforts of super operators resulted in the following new world and continental records. Congratulations! Legend: leading letter A = assisted, Q = QRP, L = low power; High power = only A or bands.

Example: AL28 = assisted low power 28 MHz, ALA = assisted low power all band

World: Q14 TG9ANF, Q3.7 4L9QQ, A14 9Y4D, ALA P4ØP (W5AJ), AL28 VK8DX, AL7 UT9MZ, AL3.7 F1EBN, AL1.8 SP1GZF, AQA RT4W, AQ28 IØUZF, AQ14 HG1X (HA1RS), AQ3.7 IZ1DGG, MS CR3A. **U.S.A.:**

A K1DG, LA N1UR, L3.7 NA8V, AA NN3W, A28 K2SSS, A21 N4PN, ALA KS1J, AL28 K2MFY, AQA NN7SS, AQ28 K2FWA/4, MS K1LZ, MM K3LR. **North America:** Q14 TG9ANF, AA NN3W, A21 VY2TT, ALA C6ARW, AL28 WL7E, AQA NN7SS, AQ28 K2FWA/4, AQ14 VE3XD.

Africa: Q14 J28AA, MS CR3A. **Asia:** Q3.7 4L9QQ (UR9QQ), A3.7 4L5O, ALA H22H (5B4MF), AL28 JM1LRQ, AL3.7 UN6P, MS P33W. **Japan:**

A JAØJHA, AA JS3CTQ, A21 JN1NDY, A7 JA8WKE, ALA JR4PMX/1, AL28 JM1LRQ, AQA JA1KEB, MM JA5FDJ. **Europe:** 21 GI5K (MIØLL-L), L28 SV9GPV, A21 DL2ARD, A14 IR4M (IK4MGP), AL28 IU9A, AL21 HA3DX, AL7 UT9MZ, AL3.7 F1EBN, AL1.8 SP1GZF, AQA RT4W, AQ28 IØUZF, AQ14 HG1X (HA1RS), AQ3.7 IZ1DGG, MS TM6M, MM DR1A. **Oceania:** A28 KG6DX, AL28 VK8DX, AL14 ZL2HAM, AL7 AH6RR, AQ28 DU1AJ. **South America:** A14 9Y4D, A1.8 PV8DX, ALA P4ØP, AL28 PY3OZ, AQ28 LU7HZ.

Special Mention

"It took me about three years to work DXCC on 10 meters from Colorado. In the CQWW, I did it in one weekend," Jim, AD1C. "Seemed like a new country could be heard with each turn of my VFO," said KL8DX. A few of the interesting calls that made their way into many logs were: VP9I, VE2IM (zone 2), VE2GSO (zone 2), ZF2AH, J39BS, XP1A, HQ9L, HQ2GL, 6Y9X, TO5A, PJ7PL, PJ7X, PJ5/SO6X, J8/PE1IGM, IG9/12ADN, IH9YMC, ZD8O, EF9A, EE9K, J28RO, TR8CA, 5R8A, CN2R, CN8VO, CN4P, C91KHN, V5/NZ2P, V51YJ, 5N6/YL2SW, 9Q6CC, 5H3EE, Z21BB, 3V8SS, T6RH, EK6TA, EK3GM, TA2/DL7BC,

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Comments

For the 2011 CQ WW SSB, 7476 contest logs, of which 7382 were electronic, were received! A special thank you to all the entrants around the world for sending in a log. We really want you to send in your log. If you have any problem submitting a log or don't know how to begin, we can help you at <questions@cqww.com>. Please send in your log no matter how small. 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. Very soon after you submit your log, it will appear on CQWW.com, tab logs, then logs received list with your category and score posted. Look over your data for accuracy. If you find an error, please let us know at <questions@cqww.com>. About one month before the results become finalized in CQ magazine, you will receive a password via e-mail which will allow access to your log (UBN) report at <http://cqww.com>. This is called your report (rpt). Look over the report to verify again your category and other information. If you find an error, please let us know at <questions@cqww.com>.

Over the last few years we have spent a lot of time making sure that the Top Scores box is as true as possible. Some entrants forget to declare the right category. Please take the time to check your category is correct before you submit your log. The largest source of error is undeclared use of the internet to find QSOs. Remember help finding any QSO places you in the assisted category. The Assisted category is becoming much more competitive. There are separate awards and listing for high and low power assisted. The CQ WW has at its disposal many methods to verify the score of an entrant and ensure a fair contest. You may find an assisted category record that you can set or beat. You can find the complete CQ WW rules and records at cqww.com.

Remember, for all multi-operator categories, when two or more transmitters are present on a band a hardware device **MUST** be used to prevent more than one signal at any one time. This year we looked more carefully at SO2R entrants. It was discovered that several top scores did not have adequate protection against two signals at the same time. A single

operator entrant can have only ONE signal on the air at ANY time. With the use of SDRs, the CQ WW CC can listen to the whole contest all the time. The presence of two signals simultaneously on the air on the same band by any entrant, or two simultaneous signals on separate bands by any single operator category is now detectable. You can avoid violating the rules by using a hardware lockout allowing only one signal at any time. You can find a few design suggestions for lockout hardware at cqww.com under the resources tab.

Remember, if you plan to try to make the Top Scores box, you can count on your log being carefully checked for rule compliance. Your competitors are relying on fair play. Running more power than the rules of your category allow, the use of undeclared packet, 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, are violations of the CQ WW rules.

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 set-up. **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 bands 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

Using an armamentarium of log-checking tools and data sources, the CQ WW Contest Committee has done its best to certify the winners in the 2011 CQ WW SSB contest. The members of the Committee who provided insight into many contesting topics are: CT1BOH, DB7MA, DJ6QT, DL6RAI, E21EIC, ES5TV, F6BEE, G0MTN, HA1AG, IK2QE1, JE1CKA, K1AR, K1DG, K3LR, K3WW, K3ZO, K5TR, K5ZD, K6AW, KM3T, KR2Q, KT3Y, LY3BA, LZ2CJ, N2AA, N2NC, N2NT, N5KO, N6AA, N6TR, N8BQJ, N9RV, OH2MM, OH6LI, PA3AAV, PP5JR, RA3AUU, S50A, US0LW, VE3EJ, W3ZZ, W5OV, W6OAT, W7EJ, W0YK, YU1EW, and ZS4TX . A special thank you to Ken, K1EA, who spent countless hours making the CQWW results the best in contesting. Thanks as always to John, K1AR, Tim, K3LR, and Ken, K1EA, for their advice. We want to thank Barry, W5GN, for providing the mechanism by which certificates are sent to winners in a timely manner. The CQWW records are maintained by John, N2NC, and K3EST.

This year the contest will seem strange without the significant presence of Gene, W3ZZ. Our very good friend became a SK in early June, 2012. For over more than 30 years Gene contributed to contesting on many levels. Most recently, he was the press secretary for the CQ WW Contest Committee. His talents will be sorely missed. The CQ WW Contest Committee dedicates the results of the 2012 CQ WW DX contests to the memory of our friend.

Congratulations to all the winners and entrants.

73, and CU in the 2012 contests!

73, Bob, K3EST

(Continued on page 100)

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.)

2011 SSB RESULTS

SINGLE OPERATOR

NORTH AMERICA

United States

K1DG	A	9,459,060	4699	166	558	"WB2WPM	"	481,985	547	86	243	"KB3OPP	"	1,104	20	11	12	"N4JF	"	438,249	643	80	207	"KG6MC/4	"	36,401	175	25	64						
KK1KW	"	5,304,936	3552	135	49	"WB2KLD	"	450,600	541	78	222	"W3RLS	"	814	14	9	13	"K4CGY	"	409,851	562	73	206	"KJ4AO	"	19,564	138	23	50						
K5ZD/1	"	5,057,340	2884	155	470	"WB2ZEX	"	380,680	565	62	186	"W3JG	"	589	15	8	11	"W6DSV/4	"	400,350	490	82	232	"W4FRA	"	18,827	105	15	52						
K9PO/1	"	3,418,891	2451	121	382	"N2GXJ	"	302,787	378	38	115	"KB3GJT	"	196	8	7	7	"W6PS/3	28	378,664	932	32	111	"K4KRV	"	356,025	418	82	220	"N80/4	"	14,036	107	18	40
K1RX	"	2,012,454	1731	95	313	"WB2ANL	"	290,667	413	66	191	"K2PS/3	"	101,196	344	25	73	"K4EQQM	"	344,400	464	76	204	"K4QCM	"	2,646	23	20	22						
K20M/1	"	1,437,425	1850	66	209	"N2WSY	"	244,800	314	79	227	"W6PKP/3	"	85,345	299	25	76	"W4GDG	"	273,278	472	52	162	"K4KAIA	"	540	12	8	10						
K1ZJ	"	1,384,416	1224	94	303	"WB2UJ	"	221,851	316	75	212	"N8NA/3	"	37,260	191	19	62	"W4GHS	"	271,890	384	83	182	"W1RQ/4	"	276	10	6	6						
W1FJ	"	1,169,295	1063	107	304	"WB2DGC	"	207,711	386	45	134	"K3FS	"	31,363	144	24	55	"W4HRC	"	268,047	410	68	169	"K4PJU	"	224	10	6	8						
NX9G/1	"	1,144,176	1133	112	282	"WB2HC	"	172,815	313	52	153	"K3SWZ	"	13,398	95	15	43	"W4FT	"	262,988	351	82	196	"K4DHF	"	128	6	4	4						
W1H1S	"	1,041,003	915	99	324	"WB1AFX/2	"	169,299	321	52	146	"K3JP/T	"	13,398	95	15	43	"W4NZC	"	232,736	385	64	160	"AE9Q/4	"	77	4	3	4						
K8B1W	"	977,481	956	85	284	"N2JBA	"	134,664	282	51	130	"NS3T	"	7	12,840	82	15	45	"AA4FU	"	229,680	331	72	189	"WAAAXT	21	66,096	258	24	78					
K1LU	"	841,689	850	100	269	"N2EL	"	113,760	233	49	131	"WB2ZEX	"	110,374	235	45	128	"K1A2DT	"	4,356,000	267	161	52	"K4M	"	210,252	385	43	143						
K1QS	"	828,144	706	102	333	"K2ANF	"	110,374	235	50	114	"K4AB	"	4,356,000	2461	172	373	"K4EJ/T	"	200,942	334	54	163	"N4K	"	17,040	104	22	49						
AA10N	"	773,644	1007	72	197	"K2JF	"	61,200	134	59	111	"K3XC/4	"	3,373,455	1875	154	511	"WB2TBM/4	14	87,360	261	28	22	"W4FJW	"	2,618	38	8	26						
W1WEF	"	722,904	795	102	229	"K2RRM	"	60,066	179	38	103	"K4SU	"	3,304,824	2190	149	403	"W4KJW	"	186,205	314	67	156	"W4HNL	7	22,869	130	20	57						
W1RZF	"	625,328	736	63	241	"K2EL	"	59,004	176	44	105	"(OP-N4AWB)	"	(OP-N4AWB)	"	(OP-N4AWB)	"	"W4FJW	"	186,205	314	67	156	"W4AW	1.8	648	30	7	11						
W1XX	"	608,895	800	80	235	"N2VM	"	59,004	176	35	66	"K4R0	"	1,483,070	1266	117	313	"K4NC	"	128,554	257	61	138	"K5LAD	"	75,968	793	96	258						
N1MFJ	"	559,136	660	88	260	"N20BY	"	59,004	175	35	66	"N6AR/4	"	3,012,450	1911	132	438	"NG4L	"	182,910	373	48	134	"W4AW	"	128,736	385	64	160						
N1DD	"	450,566	515	97	237	"WB20OB	"	3,366,476	235	132	395	"W2ANQ	"	49,518	161	37	94	"AG4W	"	2,632,530	1876	139	406	"W4YE	"	164,832	304	57	145						
K1RM	"	369,444	245	171	257	"WB2KRD	"	2,012,454	1731	95	313	"W2ANL	"	48,556	139	38	83	"N4RA	"	2,411,415	1741	150	465	"K7CS/4	"	149,966	337	45	122						
W1MSW	"	310,695	457	53	178	"WB2DVE	"	194,994	265	134	209	"N2WSY	"	42,196	124	36	118	"K5R0/4	"	2,208,626	1808	112	322	"N4ND	"	104,252	385	64	138						
K61D	"	175,490	305	51	167	"WB2CRG	"	175,490	305	51	167	"K2CRG	"	11,505	74	18	47	"N4NM	"	2,007,312	1483	121	373	"K7FG/4	"	135,930	269	62	135						
K1BV	"	139,125	391	33	92	"WB2DZ	"	139,125	391	33	92	"K2CK	"	1,735,104	1377	112	336	"N4AK	"	1,592,172	1458	109	314	"W4BOMM	"	129,554	242	66	146						
AJ1E	"	125,874	245	48	141	"WB2DX	"	125,874	245	48	141	"AC2DX	"	650	16	10	15	"W4PV	"	438,558	754	93	250	"K4CWA	"	125,554	242	66	146						
K1YSY	"	76,797	170	61	100	"WB2IM	"	76,797	170	61	100	"W2IMY	"	616	15	10	12	"AG4G	"	433,008	546	81	210	"W4TP	"	96,102	277	50	121						
W5MP/C/1	"	70,848	230	46	75	"WB2MW	"	806,096	852	70	262	"N2AMW	"	414	11	9	9	"W4XUS	"	417,051	522	89	222	"W4TPK	"	79,599	205	57	100						
N1GLT	"	60,918	163	38	105	"WB2NU	"	806,096	852	70	262	"N2NU	"	390	10	9	9	"K4ADM	"	382,800	478	76	214	"W4ADM	"	75,203	195	57	100						
WA1OUI	"	36,736	129	40	76	"WB2CJQ	"	210,767	426	23	101	"K2CJQ	"	143,377	123	50	193	"K4ADM	"	104,000	212	44	121	"W4ADM	"	28,421	120	35	62						
KB1MK	"	29,109	111	23	70	"WB2DZO	"	209,000	373	52	130	"K2DZO	"	224	11	5	6	"K4ADM	"	104,000	212	44	121	"W4ADM	"	23,188	120	28	58						
W1FM	"	28,808	113	42	62	"WB2MTG	"	208,280	107	30	71	"N2MTG	"	167,812	37	27	88	"WA4JUK	"	106,375	378	88	201	"K4ADM	"	62,308	179	40	108						
WB0POH/1	"	28,280	107	30	71	"WB2ZG	"	107,635	375	87	201	"WB2ZG	"	107,635	375	87	201	"WB2ZG	"	107,635	375	87	201	"WB2ZG	"	98,455	267	38	127						
KB1DOD	"	24,525	115	21	54	"WB2A8	"	177,012	301	51	31	"WB2A8	"	44,737	198	24	60	"W4GIF	"	2,330,592	478	36	190	"K4ADM	"	122,230	261	61	138						
N1PFB	"	20,832	91	35	61	"WB2ZL	"	34,350	171	18	57	"WB2ZL	"	24,640	120	22	58	"K4ADM	"	122,230	261	61	138	"K4ADM	"	55,962	136	34	116						
W1ZK	28	177,012	501	31	101	"WB2ZL	"	177,012	501	31	101	"WB2ZL	"	23,590	123	50	190	"WB2ZL	"	177,012	501	31	101	"WB2ZL	"	55,962	136	34	116						
K1WHS	"	107,767	426	25	76	"WB2DVE	"	107,767	426	25	76	"WB2DVE	"	2,012,454	107,767	426	25	"WB2DVE	"	107,767	426	25	76	"WB2DVE	"	55,962	136	34	116						
NN1N	"	54,863	229	23	60	"WB2BZ	"	54,863	229	23	60	"WB2BZ	"	3,374,592	273	88	194	"WB2BZ	"	107,635	375	87	201	"WB2BZ	"	55,962	136	34	116						
AA1BU	3.7	127,365	444	21	84	"WB2KUH	"	1,027,365	444	21	84	"WB2KUH	"	1,027,365	444	21	84	"WB2KUH	"	1,027,365	444	21	84	"WB2KUH	"	1,027,365	444	21	84						
*N1UR	"	1,071,616	1022	45	49	"WB2KUH	"	1,071,616	1022	45	49	"WB2KUH	"	1,071,616	1022	45	49	"WB2KUH	"	1,071,616	1022	45	49	"WB2KUH	"	1,071,616	1022	45	49						
*N7G7A/1	"	806,096	852	70	262	"WB2KUH	"	806,096	852	70	262	"WB2KUH	"	414,744	184	71	70	"WB2KUH	"	806,096	852	70	262	"WB2KUH	"	806,096	852	70	262						
*W1Y07ARY	"	232,407	416	51	166	"WB2WTF	14	127,702	346	32	102	"WB2WTF	"	127,702	346	32	102	"WB2WTF	"	127,702	346	32	102	"WB2WTF	"	127,702	346	32	102						
*W1A1DQ	"	219,520	360	55	169	"WB2WTF	"	219,520	360	55	169	"WB2WTF	"	304,040	194	77	70	"WB2WTF	"	304,040	194	77	70	"WB2WTF	"	304,040	194	77	70						
*W1A1H	"	208,320	328	66	158	"WB2WTF	"	208,320	328	66	158	"WB2WTF	"	3,696	57	29	79	"WB2WTF	"	3,696	57	29	79	"WB2WTF	"	3,696	57	29	79						
*N1E1D	"	169,761	289	55	158	"WB2WTF	"	169,761	289	55	158	"WB2WTF	"	150,280	125	56	158	"WB2WTF	"	150,280	125	56	158	"WB2WTF	"	150,280	125	56	158						
*W1WJ	"	153,242	370	20	145	"WB2WTF	"	153,242	370	20	145	"WB2WTF	"	153,242	370	20	145	"WB2WTF	"	153,242	370	20	145	"WB2WTF	"	153,242	370	20	145						
*W1MMW	"	67,252	105	31	61	"WB2W																													

		Canada									
		VY2ZM					A 12,870,747 6440 169 564 (OP:K1ZM)				
N6DW	" 14,823 73 33 48	KD7JET	" 1,856 25 16 16	AJ8B	" 89,739 204 51 118	*W9JET	" 8,142 67 29 40				
AD6KA	" 13,650 81 30 40	KB7YY	" 1,620 21 15 15	WA8TM	" 87,642 208 47 115	*KC9ZO	" 6,392 50 30 38				
KE6GF	" 13,330 95 23 39	KK7CG	" 1,178 26 16 15	K8MM	" 78,280 182 38 114	*K9JC5	" 5,805 53 19 26				
KJ6LJB	" 9,072 63 23 31	K7KFB	" 105 8 4 3	N8XI	" 55,800 165 45 79	*KE9EX	" 3,060 34 21 30				
W6SJ	" 2,870 28 18 23	WTAT	" 28 379,630 1039 36 102	K8QF	" 42,728 157 26 72	*AB9Y9G	" 2,006 23 16 18				
N6BY	" 1,065 27 23 12			K8MM	" 19,829 97 23 56	*W09I	" 1,785 22 15 20				
W4EF/6	" 28 446,400 1022 35 120	N7CW	" 208,956 571 33 99	WA8AR	" 35,306 116 38 89	*KA9OBZ	" 1,131 24 11 18				
N6AN	" 259,831 694 35 108	K7MY	" 69,084 264 37 74	DK8DKT	" 4,104 38 17 37	*AB9TC	" 312 10 7 6				
K6JAT	" 126,850 396 30 88	W7KKR	" 31,104 152 24 48	K8LO	" 3,128 32 15 19	*K9CHQ	" 48 5 4 4				
WA6GKH	" 113,620 321 33 97	K7QFE	" 22,120 110 24 55	W8RID	" 2,484 24 13 23	*NV9L	" 28 175,250 500 28 97				
W6FB	" 4,092 49 15 16	N4CC7	" 19,894 133 21 37	W8HMK	" 950 14 12 13	*K0CD9	" 16,491 107 19 50				
NK6A	" 21 84,720 273 32 88	W7EWB	" 16,184 110 19 37	NF8J	" 7 97,128 457 28 86	*WB8BZK	" 1,632 26 5 29				
N2NS/6	" 2,635 48 14 15	K9DR7	" 11,592 83 19 44	KF6A/8	" 28 201,688 521 31 105	*W9AKS	" 9,570 66 17 38				
K6HNZ	" 14 196,554 561 36 103	N9RV7	" 21 1,045,785 2241 37 136	N8AA	" 1,896,480 1300 135 405	*VE1AA	" 28 326,540 869 32 113				
K6ATZ	" 56,784 213 31 81	WA7LT	" 312,984 896 33 105	WB8TLI	" 1,179,224 946 119 327	*WB8BZK/9	" 1,632 26 5 29				
W6FCs	" 3,916 33 14 30	W7V0	" 187,884 449 36 117	K8EUN	" 407,008 516 90 226	*W9AKS/8	" 304 41 4 4				
*N6RV	" A 1,027,325 998 100 268	W7WA	" 14 1,075,222 2126 40 145	WB8FRE	" 398,389 572 69 220	KU1CW/B	" A 5,207,492 3282 148 414				
N3N3/6	" 519,776 92 201	N7IX	" 42,488 215 25 69	KF8BT	" 339,300 494 66 195	W8BQA	" 4,352,376 2814 160 428				
*AA6K	" 462,301 555 101 212	W7PU	" 33,561 177 31 68	K8PGJ	" 260,804 436 57 199	N8KE	" 1,399,320 1145 138 322				
*WW6O	" 287,039 447 77 162	WU6W/7	" 6,204 63 19 39	B8K8E	" 246,123 345 77 184	K0VXU	" 1,083,346 796 127 379				
*N6DZR	" 276,360 424 75 160	K7OFE	" 1,8 198 13 6 5	WB8TM	" 237,416 635 69 197	NC0B	" 822,528 182 103 254				
N6NCH	" 268,620 432 79 163	K2P0/A	" A 1,826,280 1548 126 319	WB8GOC	" 228,904 352 70 178	K9DU/0	" 745,545 831 98 247				
K7XE/6	" 227,630 407 70 136	N7ZG	" 1,241,411 1065 129 304	WB8KTO	" 204,680 342 72 166	KD8FW	" 446,168 495 114 230				
N6BM	" 207,144 400 66 150	K7ACZ	" 716,568 644 122 287	WB8EKG	" 202,911 299 69 170	K0UO	" 434,042 530 85 216				
K6GHA	" 165,462 296 66 150	N7IR	" 463,200 547 97 203	K8MEG	" 196,140 335 57 153	K5VYT/0	" 393,666 503 71 202				
K6E8HL	" 142,307 296 66 118	A7KAT	" 289,054 465 80 146	WB8KNO	" 176,965 319 70 154	K1HO	" 382,470 501 75 210				
K6EWC	" 138,367 312 74 105	AF7S	" 253,116 408 85 161	K8H8U	" 155,457 281 61 146	K9MWMM/0	" 343,360 492 99 191				
N6ORB	" 134,288 304 51 103	N7VPN	" 244,416 334 88 180	WB8ASA	" 148,261 309 44 124	N0UY	" 333,594 494 80 178				
N6NF	" 85,408 200 50 107	N7ED	" 225,676 359 82 141	WB8WMI	" 115,840 269 43 111	WD8ECO	" 311,664 470 78 180				
K6EGF	" 71,103 61 60 104	WA7PVE	" 200,431 392 74 135	WB8WVF	" 88,650 219 50 100	N0BU	" 294,873 469 56 171				
K6LRN	" 63,852 227 31 71	WB7ASF	" 158,894 287 73 148	N8PPF	" 78,174 193 47 108	NF0N	" 276,794 420 63 175				
*AA6EG	" 57,589 170 59 74	WA7NWL	" 158,646 299 70 123	NR8RR	" 76,416 202 62 130	KG9DN/0	" 264,712 449 66 166				
*WB6WPG	" 48,185 157 37 78	K7HBN	" 153,714 301 69 118	N8BV	" 55,76 204 38 94	K0BUD	" 231,516 386 62 156				
N6AG	" 46,990 144 53 74	WA7WW/7	" 145,848 275 73 133	K8J80	" 52,632 167 38 98	K0FX	" 207,360 351 68 172				
N6YEU	" 26,013 104 36 50	W7YAQ	" 143,859 248 82 152	K8BTI	" 52,470 175 33 77	N0UC	" 160,132 300 55 141				
K6QX	" 23,002 117 46 60	K7ALA	" 140,352 326 65 127	WB8WZ	" 45,216 118 44 112	KOJUR	" 145,044 306 56 142				
K7KG/G0/6	" 20,790 99 40 70	WB6WSC/7	" 121,094 247 68 123	WB8MMW	" 43,802 139 38 83	K1OF	" 140,624 305 48 140				
N6BHx	" 17,640 100 32 40	WB7WEC	" 114,456 291 61 91	KD8CAO	" 37,800 100 44 96	K0VG	" 136,647 278 55 134				
N7VN	" 16,200 81 35 46	K7BQN/0	" 110,188 245 56 113	N8Q0Q	" 37,185 131 37 74	W0AO	" 111,240 238 57 123				
AF6SA	" 15,438 73 33 50	N7XTT	" 101,612 328 31 102	WT8E	" 34,317 116 45 78	Y0T	" 64,056 154 53 104				
K6GSL	" 15,147 85 38 43	N7KN	" 93,756 244 59 97	WB8SK/8	" 26,578 113 32 69	NA0BR	" 61,180 275 43 87				
K6VWF	" 14,214 78 28 41	N7NEA	" 80,028 190 63 99	N8HBM	" 26,010 100 37 69	W0PPF	" 47,069 144 40 81				
K7J9PVA	" 12,240 76 40 50	W7ON	" 73,830 200 50 101	K8MU	" 19,845 100 27 54	K0AL7	" 40,016 129 50 72				
K6MUG	" 11,050 63 31 34	W7ZT	" 71,780 210 50 90	WB8WZ	" 16,930 100 36 54	N0OK	" 29,250 118 27 63				
AGBAY	" 10,380 69 28 32	N7ADK	" 66,411 194 51 90	K08JAM	" 12,920 71 22 44	W0LM	" 26,471 97 43 66				
AEEXC	" 10,032 63 32 44	K7DNH	" 63,474 195 62 87	WB8WZ	" 12,920 71 22 44	K0PFZ	" 4,632 47 18 23				
N6BEN	" 9,328 66 23 30	K7BHD	" 60,465 184 53 86	KB8HYM	" 10,64 56 24 45	W0JEC	" 4,465 37 18 29				
K6MLF	" 7,552 63 33 31	WB7P/7	" 56,574 177 50 76	K8RGM	" 9,981 54 24 43	KB0L	" 4,050 35 23 31				
N6ZB	" 7,383 75 33 36	WB7P/7	" 56,515 176 58 69	K8RMBI	" 2,774 26 17 21	K0DBK	" 4,294 54 21 23				
N6ZC	" 5,457 45 26 25	WB7JW/7	" 51,850 153 50 72	K8VQ	" 1,590 20 13 17	K0FYI	" 2,030 27 16 24				
K6BQB	" 5,350 50 20 30	N6LB/7	" 50,050 178 47 76	AB8YK	" 143 6 5 5	K0DLN	" 1,800 23 18 22				
AD6LV	" 5,304 40 22 30	K7LOP	" 46,200 141 43 77	K0F8Z	" 143 4 4 3	N7DTR/0	" 28 537,156 1251 34 122				
K6BPO	" 5,244 57 21 25	WB7VK	" 43,920 162 42 52	N8N	" 28 537,156 1251 34 122	V3XK	" 147,550 245 65 158				
K6CMRNG	" 3,078 29 23 26	WB7W	" 38,592 134 42 64	WB8WZ	" 20 106,560 230 28 83	K0V	" 49,448 191 28 28				
AF6OP	" 3,024 33 21 27	WB6LP/7	" 36,234 148 34 65	A8AN	" 38,157 187 18 61	W0XU	" 45,393 160 25 59				
W6GDA	" 2,450 25 15 20	AE7X	" 33,728 140 40 84	K7DR/8	" 34,943 154 21 62	N0DC	" 3,200 35 23 41				
K6GYB	" 1,855 26 17 18	AD7MQ	" 33,372 140 39 63	N8WAV	" 23,322 167 20 49	K0RH	" 4,050 35 23 31				
N6BXM	" 1,512 19 20 14	N7DT	" 32,910 134 39 51	WB8QFM	" 23,320 159 21 47	W0BHZ	" 4,080 38 16 18				
K6MSM	" 1,512 20 14 14	N7DT	" 32,910 125 35 59	WB8E	" 23,320 159 21 47	N8WZP	" 4,080 38 16 18				
K6CSJ	" 1,512 20 14 14	N7WU	" 19,236 99 28 59	WB8F	" 20,073 159 21 47	N8WZG	" 4,080 38 16 18				
A6F6/6	" 21 52,320 207 28 68	N7DW	" 17,628 99 28 50	N9WKW	" 17,628 99 28 50	N8WZP	" 4,080 38 16 18				
A7EYB	" 28 28,255 171 21 50	N7EY	" 17,236 111 29 33	WA8WVH	" 17,236 126 29 33	N8WZG	" 4,080 38 16 18				
WA6ADP	" 10,207 85 20 39	N7WRA/7	" 16,562 80 23 40	WB8U/7	" 16,562 80 23 40	N8WZP	" 4,080 38 16 18				
K6GOE	" 2,220 33 14 34	N7CVA	" 13,940 68 34 48	K7TVX	" 13,940 68 34 48	N8WZP	" 4,080 38 16 18				
K7L7	" 7 32,880 169 24 56	K7KVV	" 13,432 67 28 45	K9DN/7	" 13,432 67 28 45	N8WZP	" 4,080 38 16 18				
K7K7B	" 3,795 69 14 19	N7K7B	" 12,168 73 23 39	K9SGC	" 12,168 73 23 39	N8WZP	" 4,080 38 16 18				
K7K7D	" 3,795 69 14 19	N7K7D	" 12,168 73 23 39	K9SGC	" 12,168 73 23 39	N8WZP	" 4,080 38 16 18				
NX1P/7	" 991,921 1064 126 267	K7GVO	" 6,624 55 17 31	WB8WZ	" 6,624 55 17 31	N8WZP	" 4,080 38 16 18				
N7BV	" 886,074 984 113 24 24	K7JKM	" 6,100 61 31 30	AB8Z/4	" 6,100 61 27 34	N8WZP	" 4,080 38 16 18				
W7P7F	" 856,944 820 106 266	K7E7UOL	" 5,992 51 28 58	N8E/5	" 5,992 51 28 58	N8WZP	" 4,080 38 16 18				
K2VB/7	" 671,495 833 100 24 21	K7C7WDL	" 5,967 42 22 29	N9R0D	" 5,967 42 22 29	N8WZP	" 4,080 38 16 18				
N5L2/7	" 671,464 764 104 21 24	K7D7D	" 5,635 58 25 24	N9KUR	" 5,200 39 16 34	N8WZP	" 4,080 38 16 18				
W7WVW	" 561,300 689 76 224	K7WDT	" 5,040 39 16 24	K9RE	" 1,792 22 9 11	N8WZP	" 4,080 38 16 18				
K7JQ	" 403,312 526 96 181	K6TUJ/7	" 3,784 44 20 23	WB8ZQ	" 3,784 44 20 23	N8WZP	" 4,080 38 16 18				
K7F7GN	" 389,136 575 87 191	K7DSW/7	" 3,159 32 18 21	K9GLC	" 487,536 52 92 244	N8WZP	" 4,080 38 16 18				
W7G7	" 370,668 533 90 186	N7W7	" 3,096 34 16 20	WB8WZ	" 401,166 465 95 228	N8WZP	" 4,080 38 16 18				
K7K7H	" 359,910 547 79 179	AB8Z/4	" 2,584 28 17 17	WB9C	" 388,056 508 71 205	N8WZP	" 4,080 38 16 18				
N6TGW/7</											

VY1EI	21	420,240	1933	29	74	Gabon	323,510	643	51	136	"UF8T	*	20,124	92	27	59	*BD7LYR	*	24,310	123	45	65	JF1UOX	*	7,076	51	26	35						
*VEGGER	A	276,540	490	72	148	TR8CA	A	"R8XA	*	11,151	70	18	45	*BD7JAD	*	22,752	143	39	57	JJ1WVL	*	2,898	33	17	25									
**VY1CQ	*	8,246	59	31	31			"R9CDJ	*	10,412	77	29	47	*BD4UN	*	21,162	145	42	51	JN1ROV	*	2,790	27	18	27									
ZF2AH	21	1,148,360	3391	35	117	5Z4EE	A	Kenya	717,707	935	84	193	"RA9ODW	*	9,656	73	21	47	*BH4WFT	*	21,400	136	39	68	JTD1KOO	*	1,908	23	18	18				
	Cayman Islands	21	1,148,360	3391	35	117	5Z4EE	A	Madagascar	5R8A	28	392,403	1155	29	92	"RA9XB	*	6,783	44	34	39	*BD4KR8	*	12,549	76	39	50	JST1KOO	*	1,188	16	16	17	
*TI2WMP	7	7,896	65	11	36	"5R8UI	*	28	3,264	49	8	16	"RA9XP	*	1,944	31	25	30	*BD4VY	*	10,836	86	27	43	J01WKO	28	469,546	1092	35	117				
	Costa Rica	21	7,896	65	11	36	"5R8UI	*	28	3,264	49	8	16	"RA9AO	*	1,944	31	27	30	*BD4LH	*	10,500	71	30	40	JR1LKZ	*	57,720	303	25	53			
	Cuba	5CN2R	A	Madeira Islands	18,516,160	8409	167	593	(OP:WE7JE)	"RA9UB	*	1,458	27	11	16	"RA9JB	*	1,458	67	19	18	*BD4JD	*	8,667	75	36	45	JAI3YS	*	5,670	52	14	24	
*CO2CW	A	162,538	415	50	131	CT3FQ	28	1,374,342	3556	33	105	"RA9UN	*	1,725	21	10	19	*BD4CH	*	8,284	69	34	42	JAI0XY	21	510,490	1416	36	108					
*OMBAKD	28	383,236	1539	28	89	"CT3FJ	14	20,368	107	20	56	"RA9LAO	*	251,544	901	23	81	*BD8MW	*	7,830	80	20	37	JRI1COT	*	297,658	1081	32	54					
*CO8AW	*	106,572	582	21	62	"CN4BY	*	28	49,896	313	13	41	"RA9WZ	*	138,750	501	28	83	*BD6AH	*	6,100	176,700	555	32	88									
*CO6ZZ	7	201,977	850	25	64	"CN4P	21	812,490	1924	31	115	"RA9UDR	*	120,990	453	29	80	*BD5HT	*	3,612	41	18	24	JG1WOT	*	2,275	37	13	12					
*CL8AY	1.8	720	54	5	5	CN2R	A	Morocco	18,516,160	8409	167	593	"RA9VW	*	9813	349	26	93	*BD4SCP	*	3,575	66	25	30	JK1OP	7	52,969	219	28	61				
	Dominican Republic	"H3TEJ	A	5,549,138	5032	130	377	"CN8VO	A	565,320	742	79	201	"RA9JB	*	50,634	250	67	67	*BD1TXU	*	8,500	61	23	40	JL1WMO	*	1,844,000	127	111	252			
*H2EPR	28	412,176	2012	26	67	"CN8YE	*	350,930	656	44	16	"RA9UX	*	278	10	49	50	*BD4WR	*	3,294	45	23	31	JR1BTG	*	329,288	794	45	14					
*HIBJPJ	*	13,246	153	14	43	"CN4P	21	812,490	1924	31	115	"RA9AW	*	33,327	119	28	83	*BD2UY	*	3,222	44	20	24	JAI1GE	*	20,720	574	71	14					
*H13K	21	404,124	1568	30	89	(OP:CNBNK)						"RA9WZ	*	10,030	63	15	44	*BD2WG	*	2,415	22	10	20	JPI1PJS	*	170,760	384	66	14					
	Greenland	XP1A	21	977,100	2582	37	113	(OP:0X3K0)	C91KHN	A	Mozambique	80,630	266	39	71	"RA9VY	21	365,182	893	33	124	*BD2TA	*	1,833	42	20	19	JAI1VMW	*	159,112	1011	55	11	
	Grenada	J39BS	28	136,640	782	26	54	V5/NZP	A	Namibia	73,248	248	29	83	"RA9DMT	*	207,375	661	28	97	(OP:N-PM)	*	1,747	39	13	20	JAI1AZR	*	121,626	271	66	108		
	Guadeloupe	FG1PP	A	57,915	151	49	94	"V51YJ	A	985,666	1413	71	171	"RA9FJ	*	175,163	618	24	85	*BD4WP	*	1,749	21	11	18	JF1WNT	*	111,601	299	59	99			
	Honduras	H02GL	28	836,008	2894	29	95	V5/NYL2SW	A	Nigeria	505,250	709	63	187	"RA9DT	*	159,020	277	28	97	*BD1MVH	*	1,711	21	11	18	JF1KWG	*	94,288	282	66	93		
*HR1RTF	A	95,408	220	57	121	"906CC	28	534,870	1469	34	101	(OP:ZX2CC)	"RA9EAA	*	40,482	238	18	60	*BD2WES	*	1,443	21	17	20	JF1WOT/1	*	106,920	262	66	99				
	Jamaica	6Y9X	A	9,861,775	7284	128	417	ZS6GF	A	South Africa	269,882	429	84	162	"RA9VY	*	175,163	618	24	85	*BD4P	*	1,749	39	13	20	JAI1AZR	*	111,601	299	59	99		
	Martinique	T05A	A	6,296,588	5054	132	389	ZS2DL	A	167,127	525	36	77	"RA9AY	*	159,020	277	28	97	*BD1MVH	*	1,711	21	11	18	JAI1VMW	*	121,626	271	66	108			
*FM5CD	7	272,500	846	26	89	"ZS2NF	A	ZS6EE	28	233,100	656	33	93	"RA9AY	*	40,482	238	18	60	*BD2WES	*	1,443	21	17	20	JAI1VMW	*	121,626	271	66	108			
*FM1HN	28	2,368	30	13	19	"ZS1UV	*	ZS6EC	28	39,366	478	26	67	"RA9AY	*	159,020	277	28	97	*BD1MVH	*	1,711	21	11	18	JAI1VMW	*	121,626	271	66	108			
*FM5FJ	14	176,640	546	31	97	ZS6ZTO	A	ZS6ZTO	14	479,038	1134	36	113	"RA9AY	*	149,416	374	29	103	*BD2WES	*	1,443	21	17	20	JAI1VMW	*	121,626	271	66	108			
	Mexico	XE2S	A	1,532,520	1776	136	260	ZS6EA	A	ZS6EA	14	479,038	1134	36	113	"RA9AY	*	149,416	374	29	103	*BD2WES	*	1,443	21	17	20	JAI1VMW	*	121,626	271	66	108	
	Puerto Rico	XE2B	28	475,664	1613	32	105	"5H3EE	28	Tanzania	939,645	2045	37	120	"RA9AA	*	607,267	1116	83	180	*BD5DMO	*	638	14	10	12	JAI9DVT/1	*	27,063	113	42	51		
	St. Vincent	J18	14	397,996	1395	28	88	"RA9AA	*	Tunisia	521,720	1207	525	36	"RA9AA	*	159,020	277	28	97	*BD2TBJ	*	378	10	9	9	JAI1VMW	*	26,057	113	42	51		
	U.S. Virgin Islands	XE1B	14	61,740	443	23	51	"RA9AA	*	Zimbabwe	14	479,038	1134	36	113	"RA9AY	*	159,020	277	28	97	*BD2TBJ	*	1,711	21	11	18	JAI1VMW	*	121,626	271	66	108	
	St. Eustatius & Saba	PJ5/S06X	A	2,386,142	527	68	210	"RA9AA	*	Asiatic Russia	7,263,792	4223	158	499	"RA9AY	*	50,634	298	28	91	*BD6JR	28	17,664	133	22	47	JG1LPL	*	9,180	79	21	11		
		*WP3GW	A	289,456	494	69	160	"RA9AA	*	Asiatic Turkey	2,228,940	1978	99	307	"RA9AA	*	21,416	720	29	101	*BD2BT	*	13,860	20	43	43	JM1MCY	*	5,735	75	19	18		
		*WP4NEG	*	59,024	213	34	90	"RA9AA	*	Armenia	1,351,840	1506	74	266	"RA9AA	*	704,684	1164	80	161	*BD8TBS	*	6,800	19	8	16	JAI1VMW	*	4,800	39	22	26		
		*KP4WA2HLV	*	28	7,995	56	17	"RA9AA	*	Armenia	1,351,840	1506	74	266	"RA9AA	*	69,594	1291	75	178	*BD8TBS	*	12,296	19	8	16	JAI1VMW	*	4,800	39	22	26		
		*NP4G	14	698,375	2148	34	117	"RA9AA	*	Armenia	4,308,878	3747	91	315	(OP:KF5EYY)	"RA9AA	*	383,362	607	60	137	*BD8TBS	*	8,400	89	22	34	JAI1VMW	*	4,770	40	20	25	
		Sint Maarten	PJ7PL	28	51,569	458	20	33	"RA9AA	*	Tunisia	4,308,878	3747	91	315	"RA9AA	*	157,206	368	71	126	*BD8TBS	*	8,400	89	22	34	JAI1VMW	*	4,770	40	20	25	
		*PJ7X	21	488,719	1707	31	99	(OP:K2W2R)	R9AULK	A	Zimbabwe	221,470	1066	24	77	"RA9AA	*	119,890	492	22	73	*BD8TBS	21	24,624	213	23	53	JAI1VMW	*	10,530	85	15	30	
									R9AULK	*	Zimbabwe	71,151	267	29	82	"RA9AA	*	14,280	103	18	55	*BD8TBS	*	10,556	203	35	57	JAI1VMW	*	24	2	2	2	
									R9AULK	*	Zimbabwe	1,314,768	3042	38	134	(OP:RU9I)	"RA9AA	*	510,608	329	36	60	*BD8TBS	*	1,711	21	11	18	JAI1VMW	*	24,624	213	23	53
									R9AULK	*	Zimbabwe	300,608	802	36	118	"RA9AA	*	106,080	417	23	73	*BD8TBS	*	155,490	310	67	169	JAI1VMW	*	1,711	21	11	18	
									R9AULK	*	Zimbabwe	1,745,808	427	106	335	"RA9AA	*	251,251	477	69	182	*BD8TBS	*	1,711	21	11	18	JAI1VMW	*	1,711	21	11	18	
									R9AULK	*	Zimbabwe	1,745,808	427	106	335	"RA9AA	*	251,251	477	69	182	*BD8TBS	*	1,711	21	11	18	JAI1VMW	*	1,711	21	11	18	
									R9AULK	*	Zimbabwe	1,745,808	427	106	335	"RA9AA	*	251,251	477	69	182	*BD8TBS	*	1,711	21	11	18	JAI1VMW	*	1,711	21	11	18	
									R9AULK	*	Zimbabwe	1,745,808	427	106	335	"RA9AA	*	251,251	477	69	182	*BD8TBS	*	1,711	21	11	18	JAI1VMW	*	1,711	21	11	18	
									R9AULK	*	Zimbabwe	1,745,808	427	106	335	"RA9AA	*	251,251	477	69	182	*BD8TBS	*	1,711	21	11								

JN3QNG	98,256	219	76	108	*JH0NEC	A	993,149	1201	101	212	West Malaysia	"	LZ3GH	*	59,422	258	45	101	*OK/LZ3SF	*	22,780	338	12	56										
J3LSQ	38,812	130	51	73	*JL1EEI/Ø	"	39,655	160	39	64	9M2COC	A	535,192	1151	86	180	LZ1VCT	*	49,725	218	48	105	*OK2BRS	*	11,742	175	11	46						
JH3GCN	27,664	99	44	68	*J0AVS	"	35,280	142	33	57	9M2E5M	28	170,016	639	55	104	LZ3TL	*	38,080	232	43	93	*OK1FC	3.7	5,194	68	13	36						
JA3AVO	20,075	102	31	42	*J0ARCK	"	29,970	117	40	71	9M2IDJ	"	135,192	515	34	97	LZ2XF	*	31,413	138	38	73	*OK1ZY	*	2,850	75	7	31						
JG3LGD	45	3	2	3	*J0AVS	"	870	15	14	55	*NM2TO	A	175,500	605	54	96	LZ1FJ	*	25,179	203	23	86	*OK1DST	*	990	45	4	18						
J13BCF	28	245,464	776	33	89	*JH0JV	28	192,170	688	29	81	*NM2ZAK	"	46,529	210	48	73	LZ2FM	*	18,079	108	30	71	*OL6P	1.8	16,430	349	6	47					
J3LEZ	"	83,808	320	27	70	*JR0BU	"	13,716	100	21	33	*NM2JE1SCJ	"	4,838	57	27	32	LZ1OJ	*	9,317	89	26	51	(OP:OK2PP)										
JR3NZC	21	775,155	1886	35	120	*JR0EQO	"	2,170	38	9	22	*9W2WVV	28	58,065	256	30	75	LZ2VR	*	7,527	105	16	23											
JF3LDP	3.7	3,042	69	13	13	*JW0NSL	21	6,090	57	18	24	*9W2WTS	"	4,200	57	12	23	LZ1OKN	*	5,412	52	17	24											
*JH3CUL	A	888,720	1083	101	222	*JH0EP	14	113,524	360	33	90	*9W2CEH	"	3,564	41	15	21	LZ3RN	*	308	8	7	7											
J3OGI	"	171,853	360	70	117												LZ1P1	*	16	2	2	2												
JR5SSZ	"	109,296	265	51	93												LZ2HA	28	117,375	448	34	91	DZ2BKX	A	753,448	992	110	314						
J3DAY	"	64,135	226	48	69												LZ2PS	"	92,340	433	31	77	DZ6AGX	*	190,512	486	66	186						
J3EUHV	"	47,736	177	48	69												LZ2JA	*	87,785	457	32	65	DZ2T	*	188,232	582	71	205						
J13RDC	"	17,482	127	28	47												LZ1EP	*	15,680	124	17	40	DZ1KY	*	159,608	270	87	194						
JH5BYX	"	39,288	200	41	60												LZ2GM	*	6,480	110	11	25	DZ7EA	*	113,832	370	53	151						
J0SPSJ	"	17,625	127	28	47												LZ3DM	*	44,232	289	35	117	DZ58W	*	5,000	42	20	30						
J3UWB	"	7,176	75	21	18												LZ2OW	*	2,100	73	10	32	DZ0W	*										
JH5GMI	"	1,144	22	12	14												LZ52	*					(OP:2D6AL)											
J3OGI	"	396	13	8	10												LZ3RN	*																
JR5SSZ	"	42	3	3	3												LZ1P1	*																
JL3CMC	28	77,900	310	29	71	UP0L	14	1,411,498	3244	37	129	*JY4NE	28	965,202	2463	36	111	Jordan	"															
JR3BOT	"	25,545	147	21	44	*UN6G	A	319,566	555	72	169	OH0X	A	5,970,356	4102	171	563	Egypt	"															
JN3TRK	"	21,252	106	25	59	*UN6G	A	181,168	398	61	147	OH0V	7	492,492	2107	33	121	Aland Islands	"															
J3AEBT	"	19,520	124	17	44	*UN2G	"	133,250	251	52	153	OH0V	"	(OP:OH2PM)				Crete	"															
J3AKDJ	"	14,326	119	21	37	*UN7E	"	100,048	249	38	110	OH0V	"	(OP:OH6LU)				Croatia	"															
JM3QJS	"	10,624	98	21	43	*UN6GK	"	40,439	141	37	72	SV9JO	A	12,112	559	35	124	Austria	"															
J03RCK	"	6,815	71	19	28	*UN7FDP	"	437,294	729	31	108	SV9COL	A	102,306	414	48	129	Austria	"															
J13DST	"	6,732	54	14	37	*UN7X	28	100,687	361	29	78	SV9GPV	28	97,652	3560	37	116	Corsica	"															
JG5LDD	"	5,187	59	17	22	*UNTEX	"	50,100	208	25	75	CR2X	A	1,747	55	32	82	Albania	"															
JG2CNC/3	"	760	16	8	12	*UN3Z	"	35,372	201	25	13	TK5KP	A	7,960,428	6068	145	506	Albania	"															
JN3CSF	"	15	3	2	3	*UN8PT	"	19,922	114	18	55	*E06U	A	303,050	722	67	208	Croatia	"															
JR5RIY	21	420,624	1063	34	110	*UN9LU	"	12,906	106	13	41	*E03DMA	"	214,272	476	72	184	Croatia	"															
JF3BFS	"	391,408	1058	34	102	*UN7CN	"	20,191	150	14	47	*E01TKW	"	69,007	203	53	98	Corsica	"															
J13FSI	"	20,803	109	23	48	*UN6LN	14	331,350	849	34	116	*E05PL	"	39,424	180	39	89	Crete	"															
JR5KAH	"	7,866	72	17	29	*UN7RL	7	20,191	150	14	47	*E02LRO	"	15,660	127	26	64	Crete	"															
J3APYH	"	10,282	76	18	35												LZ2AJ	*	11,658	364	55	176	Crete	"										
J3ANQJ	"	1,224	17	11	13												LZ2AJ	*	20,482	99	45	88	*DZ7SG	*	10,561	84	25	34						
JR5XNL	"	989	24	10	13												LZ2AJ	*	11,658	364	55	176	*DZ7DK	*	8,855	107	19	58						
JG5SEHD	"	36	3	2	2												LZ2AJ	*	11,658	364	55	176	*DZ1KKH	*	8,855	107	19	58						
JF3BGG	"	0	0	0	0												LZ2AJ	*	11,658	364	55	176	*DZ5TL	*	8,855	107	19	58						
JF3IYW	14	19,328	132	24	40												LZ2AJ	*	11,658	364	55	176	*DZ7ZG	*	10,561	84	25	34						
J4UUTP	A	1,923,896	2277	104	234												LZ2AJ	*	11,658	364	55	176	*DZ1KKH	*	8,855	107	19	58						
JO4CTB	"	197,400	172	46	149												LZ2AJ	*	11,658	364	55	176	*DZ5TL	*	8,855	107	19	58						
J4FRWN	"	190,740	132	46	149												LZ2AJ	*	11,658	364	55	176	*DZ7ZG	*	8,855	107	19	58						
J4EE	"	4,224	32	18	30												LZ2AJ	*	11,658	364	55	176	*DZ1KKH	*	8,855	107	19	58						
J4AFHE	21	346,461	904	36	123												LZ2AJ	*	11,658	364	55	176	*DZ5TL	*	8,855	107	19	58						
JH4UYB	A	2,550,255	2287	118	293												LZ2AJ	*	11,658	364	55	176	*DZ7ZG	*	8,855	107	19	58						
JE4QGF	"	60,027	209	36	145												LZ2AJ	*	11,658	364	55	176	*DZ1KKH	*	8,855	107	19	58						
J4R4DP	"	41,790	185	40	65												LZ2AJ	*	11,658	364	55	176	*DZ5TL	*	8,855	107	19	58						
J4AAQR	"	30,240	144	26	46												LZ2AJ	*	11,658	364	55	176	*DZ7ZG	*	8,855	107	19	58						
J04CZ	"	10,579	74	30	41												LZ2AJ	*	11,658	364	55	176	*DZ1KKH	*	8,855	107	19	58						
JG40OU	28	73,040	306	53	63												LZ2AJ	*	11,658	364	55	176	*DZ5TL	*	8,855	107	19	58						
J4R4LY	21	17,192	131	23	33												LZ2AJ	*	11,658	364	55	176	*DZ7ZG	*	8,855	107	19	58						
J4J6CJ	"	26,255	161	18	41												LZ2AJ	*	11,658	364	55	176	*DZ1KKH	*	8,855	107	19	58						
JH4F7J	"	26,255	161	18	41												LZ2AJ	*	11,658	364	55	176	*DZ5TL	*	8,855	107	19	58						

ES6QZ	8,572	100	16	52	*UA4LW	*	131,784	437	56	172	*UA4WKK	*	29,820	241	21	63	*F5KAY	*	9,440	89	24	56	*DF6WE	*	137,280	380	62	158			
ES5PW	14	1,181,579	3498	39	140	*URUGY	*	130,798	364	59	130	*RL3DCS	*	19,988	201	20	56	*F5TGR	*	3,108	203	22	22	*DL4RAT	*	136,047	312	61	161		
ES2DQ	7	23,370	192	61	81	*RV1C8/1	*	125,064	202	53	163	*RU3UW	*	14,460	207	129	14	*F4OBD	*	2,880	55	16	24	*DC5AN	*	133,200	307	61	161		
ES4RD	A	65,186	1013	99	280	*RA3TUT	*	122,724	214	76	176	*RA3XEV	*	13,200	196	12	46	*F4JLC	*	2,280	16	24	24	*DC2DC	*	130,872	257	76	120		
ES6PA	"	289,784	638	4	222	*RZ1OK	*	121,980	443	49	146	*RU3WV	*	8,550	101	50	42	*F4BZY	*	2,132	23	18	23	*DJ4WM	*	128,000	400	51	149		
ES8SX	"	132,525	393	54	171	*RV1AE	*	111,504	504	44	146	*UA4PL	*	1,82	8	5	8	*F4LKJ	*	1,930	35	15	30	*DK3FB	*	123,478	403	53	161		
ES6MR	"	132,273	402	55	58	*UA4CNJ	*	103,500	444	46	143	*RZ1ZZ	14	414,729	1610	29	108	*F4MWT	*	1,870	25	17	17	*DL9LF	*	121,422	369	51	126		
ES3YG	"	28,440	181	37	37	*RN4NF	*	100,912	236	59	154	*RL3ZH	7	44,678	401	14	70	*F4GOU	*	1,558	39	13	28	*DL3SG	*	119,948	300	55	136		
ES1BA	"	4,704	31	26	94	*RP-E5STAUX	*	100,155	245	67	98	*RZ3WVX	*	9,735	143	14	41	*F4RST	*	1,462	23	6	24	*DK7GH	*	118,770	289	68	154		
ES6TX	28	95,885	310	33	94	*R7MP	*	94,525	351	46	153	*R3LCK	3.7	13,920	232	10	48	*F4FIA	*	1,290	40	6	24	*DL2KWA	*	103,873	243	45	164		
ES1N	"	3,311	60	13	30	*R2EAA	*	92,880	327	54	161	*RW6ALB	*	9,313	167	13	54	*F4FWN	*	782	17	11	12	*DL2MRE	*	100,600	299	55	145		
ES1LS	21	116,039	556	30	91	*RW9SZ	*	91,959	273	73	130	*RD3VC	*	7,314	118	9	37	*F5LIW	28	176,900	580	35	87	*D01CS	*	95,888	316	48	119		
ES1CN	"	110,257	459	30	103	*RA1AJF	*	89,488	250	61	127	*UA4NDX	1.8	4,680	126	8	32	*F4FOZ	*	65,145	294	29	72	*DL5ZB	*	94,522	228	69	98		
ES6KW	3.7	16,802	247	10	52	*RA3XT	*	88,854	275	46	131	*RA4FWA	*	1,029	37	6	15	*F4OFZ	*	20,294	135	25	48	*DL5ASE	*	93,125	258	59	81		
European Russia																															
RM3F	A	4,370,232	3967	151	482	*RA4AAO	*	80,190	287	54	144	European Turkey																			
(OP-U3APDX)																															
UA4W	A	3,099,888	3396	146	472	*RL6MA	*	76,616	338	33	124	*TA1CQ	A	309,414	842	65	213	*F4FSB	*	2,656	51	12	20	*DK8EY	*	87,507	277	55	134		
RSGA	"	2,926,660	3255	133	450	*RV3ZN	*	63,106	326	37	102	*TA1AZE	A	263,626	836	64	189	*F4FSA	*	3,861	63	9	30	*DG2MEL	*	86,208	321	57	135		
RM4HZ	"	1,520,376	2547	107	322	*UD4FD	*	59,821	228	48	120	*TA1CM	28	81,536	491	29	83	*F4FWD	*	3,861	63	31	22	*DL1GHJ	*	85,741	286	57	122		
R3G2	"	1,175,752	223	95	281	*R3OA	*	59,432	310	37	115	*TA1HZ	21	8,56	5	3	*F4FZ	*	13,504	143	16	48	*DL2DU4	*	72,468	311	46	137			
RA/K5EJA	"	1,085,400	1579	87	181	*RA3TJX	*	58,838	198	45	101	Faroe Islands																			
UA3VFS	"	1,073,610	1518	109	365	*RA3VF	*	57,216	331	27	101	*RA4AVN	A	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D01AYJ	*	60,878	250	38	84		
RK3Z2	"	968,091	1050	110	357	*RA4AVN	*	56,550	276	36	144	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4FTD	*	60,534	161	52	125		
RA3NC	"	713,461	886	116	333	*RA3RGQ	*	54,102	157	51	76	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
UA5D	"	563,568	1036	91	263	*RA3DLD	*	51,562	226	36	91	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RN3ZC	"	483,153	863	90	273	*RW1TA1	*	50,040	149	54	126	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
UC7A	"	455,710	755	103	293	*RA3ACL	*	49,651	226	42	131	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
R3CM	"	443,394	881	76	23	*RA3RBL	*	49,608	224	48	111	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
UA4AAC	"	406,461	771	84	255	*RZ3DAO	*	49,290	206	43	112	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RA3TT	"	291,856	621	70	202	*RU3SD	*	47,648	184	39	85	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RX6AM	"	287,410	1004	63	142	*RA3UBT	*	42,951	207	35	104	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RA7C	"	274,224	420	84	264	*RU3UBT	*	37,910	166	49	121	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
UA3TCJ	"	261,744	336	56	112	*RZ3L	*	37,597	196	38	93	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
U1BD	"	255,252	710	69	188	*RZ3GV	*	37,410	170	40	105	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
R3FN	"	246,510	427	69	197	*RA3PPA	*	35,200	115	35	70	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
R3OM	"	130,146	371	63	155	*RA3EA	*	35,172	105	45	71	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
R3DL	"	109,564	294	56	140	*UA1TQG	*	35,125	156	30	95	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
UA6AES	"	85,956	272	48	108	*RA6XB	*	34,766	107	39	83	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RJ6FA	"	79,346	174	64	130	*UB1AAZ	*	34,210	156	31	97	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RJ4F	"	77,077	253	44	77	*RA3RUF	*	33,232	155	41	91	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RJ3KC	"	76,960	271	50	135	*RA4FTA	*	32,245	98	45	141	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RJ3NA	"	75,114	202	66	148	*RA3UT	*	32,200	98	30	54	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RJ4LC	"	65,100	235	44	85	*RA3UJA	*	30,008	88	33	54	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RJ3QNS	"	37,250	105	55	94	*RA4WT	*	27,888	123	24	62	*RA4AVN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RJ6FC	"	29,875	114	44	81	*RA6BD	*	17,400	136	28	72	*RA2JLN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RJ4TM	"	27,120	112	45	65	*RA3MM	*	16,849	77	38	45	*RA2JLN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220	222	46	94		
RJ3BM	"	19,470	84	64	64	*RA6CW	*	15,251	78	42	58	*RA2JLN	*	8,018	277	36	144	*F4FBP	*	2,1	1	1	1	*D4KWO	*	59,220					

*DG4DDA	*	475	15	8	11	16KIU	*	21,594	83	51	71	*IK5RUP	*	5,885	77	13	42	*PA5VK	*	44,010	194	42	93	SP2SWR	7	83,270	615	22	88
*DU9AT	*	240	21	4	12	12IJMN	*	16,000	82	34	66	*IZ5UGM	*	946	28	7	15	*PA3JU	*	42,161	243	37	96	SP9JZI	*	39,292	331	20	51
*DK8RE	*	224	23	4	12	12IJLAT	*	11,481	77	34	50	*IZ5RLK	7	28,718	338	17	66	*PA3AWW	*	40,172	179	44	77	SP8RHL	*	20,988	319	15	51
*DG6SCP	*	140	10	4	12	16FDJ	*	11,352	116	26	62	*IV3TQE	*	22,100	166	19	66	*PD1TV	*	39,208	232	30	74	SP6PPY	*	1,350	20	9	16
*DLOSDX	*	60	6	4	3	12IK2AO	*	9,408	63	27	37	*IC8FU	*	3,652	59	35	63	*PA2GRU	*	38,736	219	37	107	(OP-SP6T)	*				
*DL0BX	28	445,230	1205	37	116	12ZKRZ	*	7,350	43	32	38	*IZ2LTW	*	1,125	57	3	22	*PD1EJA	*	37,269	201	29	72	SP2FAP	*				
*DK0ZQ	*	91,080	375	31	59	12ZJHO	*	5,280	49	26	29	*IZ5LDR	*					*PA1ABO	*	28,900	168	33	67	SP6AXW	1.8	20,928	315	7	57
*DJ1ZU	*	78,980	322	33	77	12KVWKW	*	2,379	46	11	28	UA2KK	A	217,294	1046	19	64	*PD5T	*	26,208	174	33	84	*SN3B	A	582,160	982	96	287
*DL3WKG	*	60,888	289	29	57	12ZJFH	*	54	3	3	3	*IZ5LDR	*					*PA0MAW	*	24,165	123	36	99	(OP-SP6T)	*				
*DL5SSWB	*	45,200	245	26	54	12ACDW	28	780,698	1923	40	126	UA2CZ	*	198,440	333	90	152	*PA3CMF	*	21,340	150	30	80	*SP0NWN	*	562,872	791	100	273
*DJ9DZ	*	37,392	170	32	50	12TCV	*	33,879	312	23	46	*RA2FF	A	263,064	331	114	77	*PA2KMF	*	20,970	119	32	58	*SP80YB	*	468,520	671	107	317
*DH3RB	*	26,460	152	24	49	12ZRCP	*	12,696	76	29	44	RN2FO	*	83,414	272	51	128	*PD1T	*	19,100	188	26	74	*SP1IMGM	*	452,760	821	99	293
*DL5DRN	*	26,136	165	22	44	1W8BCF	21	152,471	465	38	129	UA2AB	*	96	4	4	4	*PA3EGO	*	17,005	135	26	69	*SO9G	*	415,820	699	87	253
*DK4KUS	*	12,528	112	16	32	12ZHU	*	124,843	563	30	101	*RA2FB	1.8	1,608	63	5	19	*PA0EMO	*	16,720	160	22	66	(OP-SP9P)	*				
*DF8XC	*	11,718	85	20	43	12KMR	*	25,380	134	25	69	*IZ5LDR	*					*PA1FJ	*	14,271	101	28	43	*SQ3VV	*	324,696	581	82	250
*DL1MHJ	*	9,030	86	16	32	12ZGXW	*	14	5	4	6	*IZ5LDR	*					*PETRDP	*	13,552	96	30	58	(OP-SP3JW)	*				
*DL3DRA	*	8,338	140	22	43	12ZFWF	14	51,707	457	24	73	YL2SM	A	4,525,590	3805	144	466	*PA0MAW	*	12,204	78	24	30	*SO4JEN	*	309,738	650	80	206
*DK1KEF	*	3,348	43	14	17	12ZT0A	*	48,832	307	26	83	YL2CI	*	1,889,590	2449	111	353	*PA3CMF	*	11,972	116	19	54	*SO2WHH	*	280,840	754	66	210
*DK1JSUN	*	1,305	17	13	16	12V3T	7	225,435	155	26	67	*RA2FF	A	263,064	331	114	77	*PA1T	*	11,970	103	21	53	*SP8CGU	*	271,432	633	71	191
*DM1LM	*	1,085	22	14	17	12KMPR	*	3,220	70	10	36	YL2SR	*	607,168	558	104	220	*PA2GRU	*	11,376	112	21	51	*SP5XSL	*	260,352	593	69	219
*DL2HBX	*	72	6	2	22	1V3KF8	3.7	127,088	1179	18	76	YL2TB	*	280,764	604	82	124	*PA1DZ	*	12,060	160	22	66	SP2PVO	*	20,691	483	64	195
*DB1RTE	*	6	1	1	1	1V4FY	*	75,180	873	13	14	*RA2AB	1.8	4,910	140	50	115	*PA1VC	*	10,074	90	21	47	*SP5ELW	*	19,404	487	74	183
*DO1RBT	*	6	1	1	1	1V2Z	A	1,030,920	1115	111	329	*YL2GUW	A	4,190	140	50	115	*PA0FEI	*	9,916	137	20	70	*SP9DSN	*	17,817	388	83	170
*DO2HBX	*	6	1	1	1	1V2Z	A	1,030,920	1115	111	329	(OP-2KDNZ)	*	35,875	126	48	77	*PA0FIR	*	9,916	120	27	47	*SP5PKW	*	17,611	342	63	183
*DZ9Z	21	64,856	268	32	102	*1K2OLX	*	502,500	81	84	251	*YL2QV	*	35,970	147	20	60	*PA0FIR	*	9,520	134	20	60	(OP-SP9QH)	*				
*DL5KUD	*	48,371	210	32	75	12ZMM	*	277,000	547	79	221	*YL2QV	*	2,970	40	17	60	*PA0FIR	*	9,520	134	20	60	(OP-SP9QH)	*				
*DL1ZZ	*	12,162	63	21	43	12KTNX	*	272,840	424	109	55	*YL3CU	7	27,975	297	15	60	*PA0FIR	*	9,520	134	20	60	(OP-SP9QH)	*				
*D01WHU	*	8,160	92	16	32	1V3BCA	*	26,615	593	91	222	*YL3CU	7	27,975	297	15	60	*PA0FIR	*	9,520	134	20	60	(OP-SP9QH)	*				
*D02LR	*	2,607	42	12	21	125MVA	*	225,132	625	72	185	*YL2OU	28	214,560	625	38	122	*PA3QWN	*	2,958	39	12	17	*SP9QH	*	10,328	346	51	121
*D04TP	*	1,635	35	12	15	12KTRV	*	162,828	50	48	138	*YL2OU	28	55,425	290	27	68	*PA3DWK	*	2,360	31	18	22	*SP7TEX	*	10,627	341	51	130
*DL2BP	14	128,655	612	32	103	12ZKKA	*	155,960	362	61	157	*YL2OU	7	71,172	502	23	85	*PA0LIE	*	2,296	24	18	23	*SN9Y	*	99,750	322	56	134
*DL1AL	*	29,993	252	22	67	12KTPD	*	147,849	33	60	158	*YL400	3.7	18,648	258	11	52	*PA3EG	*	4,456	28	10	43	(OP-SP9QH)	*				
*DC6COM	*	12,292	59	13	24	12K3SW	*	13,993	84	24	158	*YL400	A	3,463,922	3310	136	476	*PA3OF	*	5,808	92	17	49	*SP4CUF	*	153,216	492	54	140
*DL6GUAM	*	3,872	78	25	35	12KVSJ	*	126,000	50	50	150	*YL400	A	1,163,395	2018	116	395	*PA3OF	*	4,456	27	17	49	*SP4CUF	*	153,216	492	54	140
*DL1HWH	*	3,872	78	25	35	12ZRTX	*	117,813	290	70	150	*YL2TS	*	4,626	877	89	260	*PA3FTO	*	4,212	50	20	34	*SP3JXH	*	143,076	349	67	141
*DL5FCY	*	2,960	83	5	32	12ZRTX	*	117,813	290	70	150	*YL2AE	*	4,463,840	882	85	250	*PA3JOD	*	4,804	45	16	32	*SP2BNM	*	12,882	272	71	141
*DL1BZA	*	114	32	13	19	1W3ICN	*	98,032	365	42	134	*YL2OU	28	55,425	290	27	68	*PA0LIE	*	5,514	71	20	47	*SP3ILQ	*	16,184	474	51	121
*DL8AAM	7	39,872	347	18	71	1V3NVB	*	97,750	219	82	168	*YL2MM	7	7,172	502	23	85	*PA1CMB	*	5,246	107	21	51	(OP-SP9QH)	*				
*DLQKU	1.8	10,505	229	25	44	1W0EAC	*	8,151	255	94	217	*YL400	*	5,093	208	35	102	*PA1CMB	*	7,280	163	8	44	*SP4AAZ	*	72,400	278	51	130
Greece						(OP-HA5V)	*					*YL400	*	5,093	208	35	102	*PA1CMB	*	7,280	163	8	44	*SP3CIO	*	67,465	249	38	93
*SV2VBM	A	299,598	496	99	247	*1K4FWF	*	64,702	242	48	125	*YL2HO	*	14,964	99	28	58	*PA0WYS	*	8,196	18	10	33	*SP0DXT	*	96,384	327	57	135
*SV2YC	A	172,250	431	62	188	12ZDUX	*	55,800	233	38	112	*YL1PV	*	14,998	399	57	164	*PA0WYS	*	8,196	123	38	112	(OP-SP9QH)	*				
*SV1M0	*	128,352	494	54	158	12K2IN	*	54,166	213	44	102	*YL1PV	*	135,376	514	65	155	*PA0WYS	*	8,196	123	38	112	(OP-SP9QH)	*				
*SV2QDS	*	107,738	350	54	152	12ZBNZ	*	37,530	205	49	98	*YL2BS	*	3,978	54	12	24	*PA0WYS	*	8,196	123	38	112	(OP-SP9QH)	*				
*SV1HKD	*	75,978	245	53	148	12K3MLF	*	37,485	182	48	111	*YL1XK	28	21,168	157	20	43	*PA0WYS	*	8,196	123	38	112	(OP-SP9QH)	*				
*SV1M9D	*	75,978	245	53	148	12K3MLF	*	37,485	182	48	111	*YL1XK	28	21,168	157	20	43	*PA0WYS	*	8,196	123	38	112	(OP-SP9QH)	*				
*HA1TNX	A	1,663,089	1486	133	404	12ZL7U	*	19,879	124	28	75	*Z36N	28	301,070	929	40	121	*PA0WYS	*	14,723	714	92	264	*SP03HTX	*	36,162	262	28	95
*HA5SE	*	431,310	762	85	243	12Z1CKN	*	19,511	111	31	78	*Z36N	*	14,723	358	87	120	*PA0WYS	*	35,875	632	77	184	*SP02EAN	*	59,878	195	61	121
*HA5JI	*	37,777	136	98	243	12Z8GBT	*	17,686	98	30	44	*Z36W	*	14,723	358	87	120	*PA0WYS	*	30,228	957	65	182	*SP02DPM	*	59,855	288	31	132
*HA7JY	3.7	79,806	815																										

*SP0GLJ	.	9,720	89	18	27	*Y07LBX	7	27,612	306	14	64	EAX5X	*	277,200	452	98	232	*EASFCW	*	13,888	226	20	42	UR5AKU	*	1,323	24	10	17						
*SP0EXP	.	6,279	68	16	23	*Y04RDW	*	25,434	236	16	65	EAX3IQ	*	192,000	455	99	187	*EASTN	*	1,539	21	11	16	UT5ECZ	1.8	15,490	243	9	51						
*SP0EVW	.	4,950	68	13	12	*Y2P2W	*	3,807	61	11	36	EAV1C	*	120,384	453	56	125	*EA2DDE	*	104	7	3	5	*US0HZ	A	1,283,562	1688	113	102						
*SP0BDP	.	2,328	33	12	12	(OP:Y20MCK)						EAV1C	*	111,496	293	56	125	*ED5K	14	36,838	182	30	83	(OP:UF4UH)		1,151,204	1281	122	420						
*SP0RPM	.	1,936	22	11	11	Sardinia						EAV7CN	*	100,556	281	70	143																		
*SP0BGC	.	1,914	42	11	18	IS0HOJ	A	420,563	1153	58	163	EAV7CN	*	61,555	261	65	17	*E4CT	*	17,304	259	77	67	*UT4EK	*	759,669	1150	104	289						
*SP0PLAW	.	1,296	32	8	10	IS0BSR	A	128,575	605	34	105	EAV7CN	*	50,429	138	49	93	*E4Y4K	*	9,916	69	24	43	*UT2IG	*	693,160	1111	99	304						
*SP0BU	.	1,124	18	10	11	IS0GRB	7	39,440	361	18	67	EAV7CN	*	3,660	86	10	10	*E4TIIW	*	8,468	106	18	40	*UT3EV	*	607,875	1074	94	281						
*SP02MB	.	912	16	8	8	EAV1AR	*	35,432	167	36	50	EAV1AR	*	7,884	124	10	44	*UT7CA	*	579,785	963	89	270												
*SN1T	21	43,065	287	23	64	EAV1AR	*	31,866	143	49	77	EAV1AR	*	624	13	7	9	*UT3I	*	565,468	939	92	281												
*SP4ICD	.	31,752	209	22	22	(OP:SO1RET)						EAV1AR	*	30,492	259	35	86	*E4TCQ	7	54,080	369	18	86	(OP:US2IHS)											
*SP0BMH	.	24,948	147	28	24	99	MM0AMW	A	790,187	1423	65	162	EAV1AR	*	18,900	110	37	68	*E4TCV	*	26,145	231	18	65	*UT3UZ	*	546,354	842	90	291					
*SP0NLI	.	2,475	60	10	23	MM0QV	"	699,300	77	175		MM0QV	*	166,980	435	67	182	*E5EW	*	13,715	156	15	50	*UT7WF		475,272	896	87	282						
*SP5BMU	.	912	34	8	6	GM2Y						EAV1AV	*	198,246	1015	29	65																		
*SO4G	14	142,932	818	31	97	MM1D	3.7	58,716	570	16	61	EAV1AV	*	166,632	787	30	76	*E4AAQ	*	6,327	146	10	47	*UR5MM		460,265	877	87	278						
*SP0GYD	.	53,586	309	30	38	MM0FN	A	332,175	658	73	236	EAV1AV	*	198,246	1015	29	65	*E5EN	*	4,050	79	11	34	*UT7MR	*	454,080	859	84	260						
*SO8L	.	50,547	429	22	65	MM0LBX	*	99,297	362	49	128	EAV1AV	*	198,246	1015	29	65	*E5EOR	3.7	29,602	284	15	67	(OP:PA5XJ)		264,020	668	76	231						
*SP1FRC	.	27,141	225	19	64	GM3GC	*	96,679	350	47	140	EAV1AV	*	198,246	1015	29	65	*E5EOR	3.7	29,602	284	15	67	(OP:US2IHS)		565,468	939	92	281						
*SP5DRE	.	24,310	183	20	65	MM1X	*	90,090	525	35	91	EAV1AV	*	198,246	1015	29	65	*E5EOR	3.7	29,602	284	15	67	(OP:US2IHS)		565,468	939	92	281						
*SP00B	.	6,716	96	11	35	MM0DXD	*	66,924	344	34	122	EAV1AV	*	198,246	1015	29	65	*E5EOR	3.7	29,602	284	15	67	(OP:US2IHS)		565,468	939	92	281						
*SP6HD	.	2,252	9	6	8	MM0BQN	*	1,026	30	5	13	EAV1AV	*	198,246	1015	29	65	*E5EOR	3.7	29,602	284	15	67	(OP:US2IHS)		565,468	939	92	281						
*SP7SZC	.	24	2	2	2	MM0VSX	28	52	30	3	3	EAV1AV	*	198,246	1015	29	65	*E5EOR	3.7	29,602	284	15	67	(OP:US2IHS)		565,468	939	92	281						
*SO20SE	7	55,566	654	15	65	G7MTUD	21	159,040	535	37	123	EAV1AV	*	198,246	1015	29	65	*E5EOR	3.7	29,602	284	15	67	(OP:PA5XJ)		565,468	939	92	281						
*SP1FFC	.	33,872	427	15	58	G7MABJ	1.8	2,088	62	5	27	EAV1AV	*	198,246	1015	29	65	*E5EOR	3.7	29,602	284	15	67	(OP:PA5XJ)		565,468	939	92	281						
*SO2NNN	3.7	35,424	452	11	61	YT9M	A	788,096	1316	87	289	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
*SP0HNA	.	22,428	338	10	53	YT5UCW	*	303,606	650	82	221	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
*SP4SHD	.	22,032	279	11	51	YT1CC	*	44,955	139	61	74	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
*SP0IAJ	1.8	23,729	409	8	53	YT0W	28	700,920	2314	34	101	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
*SP5CJY	.	21,964	312	10	58	YT3PL	*	183,370	716	34	26	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
*SP4AND	.	7,488	190	6	42	YT7AW	21	1,232,952	3069	39	140	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
*SP6ACF	.	414	30	3	15	YT5UA	*	1,110,132	287	38	133	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CR6K	A	7,389,200	5631	135	445	YT5YA	*	303,606	650	82	221	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1DOF	.	96	4	4	4	YT1A	14	67,720	2395	36	129	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1EAT	28	164,450	529	36	94	YT1B	*	241,638	101	35	103	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CS2C	21	1,534,872	3907	38	148	YT1C	*	815,226	3158	37	123	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1FJK	.	40,080	151	25	95	YT2D0	3.7	95,532	1098	13	70	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1FHL	A	434,830	633	68	226	YT2P	A	39,754	234	39	100	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1TEG	.	378,711	741	71	212	YT2Y	*	21,630	128	33	72	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT2CRP	.	80,464	295	54	134	YT7WV	28	78,780	326	32	65	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1JIW	.	65,637	231	46	97	YT7JKM	*	28,424	177	27	49	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1ABG	.	10,902	100	21	58	YT1B	*	27,090	205	22	41	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1EEM	.	7,038	57	27	47	YT1UZ	21	13,568	152	19	45	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1KFA	21	85,614	504	20	77	YT2MS	14	13,400	147	15	52	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT1DZY	14	59,764	251	31	103	YT1EL	7	26,702	256	15	64	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
CT0H9AP	.	18,800	206	23	71	YT1AST	1.8	1,100	40	5	20	EAV1AV	*	198,246	1015	29	65	(OP:PA5XJ)																	
Romania						Shetland and Fair Isle	A	507,408	790	83	258	EAV1AV	*	198,246	1015	29	65	(OP:GM4SSA)																	
Y03CZW	A	3,081,320	4187	106	364	ZG5Y	A	507,408	790	83	258	EAV1AV	*	198,246																					

VK4AV	"	147,726	323	63	111	LU1HN	"	1,524,209	3298	35	132	*PU3KNP	"	5,236	61	17	27	PC2F	"	62,823	305	36	93	7M3FMR	"	63	5	3	4			
VK4SD	"	126,072	385	53	109	LU1VM	"	960,860	1704	68	146	*PU2LVA	"	4,224	58	11	22	VA3RKM	"	58,519	174	45	94	TG9ANF	"	327,236	1179	5	3	4		
VK4HG	"	118,944	256	59	118	LU1FD	"	698,280	1013	87	166	*PU1VHF	"	2,176	39	15	19	SP9R0H	"	56,525	197	61	114	Y08SSB	"	112,255	498	32	111			
VK4GH	"	90,216	211	70	109	LW9ETQ	"	134,694	442	41	85	*PU2RKP	"	1,953	45	10	12	ON3TO	"	49,256	262	31	100	UA0A	"	60,742	213	31	90			
VK3CTN	"	20,114	85	29	60	LU1DZ	"	36,816	131	41	77	*PU3KNG	"	1,452	30	10	12	WA20QJ	"	48,708	146	36	87	SP3DRM	"	41,610	331	20	75			
VK4VI	"	15,624	72	39	54	LU1AH	"	1,829	21	12	19	*PU2NDY	"	624	22	6	10	VKA4TH	"	46,872	155	55	69	TY1CS	"	40,630	399	17	68			
VK2B0	"	5,368	45	26	35	AY5F	"	28	1,896,720	3996	37	131	*PU2SGL	"	154	10	5	6	EU3AA	"	42,614	224	37	112	N5VEZ	"	38,121	181	24	73		
VK2PN	"	4,371	37	19	28	LU2DKT	"	1,8	880	18	10	12	*PY3FBI	"	21	77,280	326	28	68	J28AA	"	38,040	19	41	79	ZJ2AA	"	32,100	152	22	53	(OP:E70A)
VK2TPP	"	3,888	38	22	26	*LW1HR	A	262,122	660	60	98	*PY1NB	"	16,128	95	22	41	N7JLC	"	35,072	113	55	82	VATIR	"	28,046	176	23	51			
VK2ACC	"	2,242	25	18	20	*LTSY	"	245,658	426	45	51	*PY8RF	"	5,600	55	16	34	RA4SM	"	32,305	168	32	59	SM6CRM	"	27,552	231	21	63			
VK5MK	"	1,254	25	16	17	*LU2EE	"	234,033	504	58	123	*PY2BRC	"	6	1	1	1	MOJBA	"	31,088	182	31	85	E73CV	"	8,635	160	12	43			
VK4TL	21	26,988	148	26	52	*LU1VZ	"	215,318	517	71	128	*PS8RF	"	19,684	198	23	23	RM4PA	"	31,040	198	29	68	7E76A	"	6,958	108	11	38			
*VK2LAW	A	567,120	821	89	166	(OP:LUV9EA)	"	240	1,896,720	3996	37	131	*PR7AYE	"	18,900	101	21	49	LA03GP	"	30,264	203	27	77	LZ1CZ	"	16,670	142	8	38		
*VK3TZ	A	196,863	355	83	128	*LU5CAB	"	180,075	525	55	92	*PY1ON	"	3,458	36	14	24	LA1TPA	"	28,676	115	42	65	I2ZQKG	"	5,500	112	8	36			
*VK4VDX	"	187,668	337	81	153	*LU5FR	"	173,340	391	62	118	*CE2WZ	A	7,080	45	27	33	VA3WR	"	27,552	143	36	60	KI0KXY	"	3,612	75	9	34			
VK4BOF	"	89,377	320	56	83	*LU3WDN	"	120,204	370	42	44	*CA3KHZ	28	20,720	199	18	22	RA4SM	"	27,360	155	32	64	KR2AA	"	3,570	38	13	29			
*VK2MWG	"	85,204	182	52	127	*LU4EF	"	59,740	278	39	64	*CE3DNP	14	104,310	427	29	61	CT1ESQ	"	24,206	133	36	97	EW6ML	"	1,938	57	5	26			
VK4BL	"	75,543	204	52	97	*LU5EY	"	39,168	194	41	61	*CE2UIR	A	41,040	154	55	65	SM7TKZ	"	23,862	136	37	86	Y02MBU	"	504	23	6	15			
*VK2ERP	"	51,246	181	51	95	*LU4K	"	21,165	206	37	46	*CE3TKV	"	9,450	92	23	31	PA0RBO	"	22,770	157	29	81	JK3AHS	"	50	4	2	3			
VK3FM	"	48,870	138	54	81	(OP:LUG6KA)	"	14,129	107	35	36	*CE3WVY	"	3,160	49	19	21	WB3VTY	"	18,912	169	22	74	BH8ADT	"	21	4	3	4			
VK3WZ	"	34,727	121	45	76	*LU6DRN	"	17,763	99	39	54	*CE4SES	28	63,099	441	17	40	EA5FP	"	18,879	128	29	64	AC0OP	"	6	1	1	1			
*VK4XES	"	23,664	99	33	54	*LU7DX	"	3,913	48	19	24	*CE4WW	"	57,888	356	23	49	ES6Q	7	45,178	317	20	78	(OP:WS4T)	"	32,100	152	22	53			
*VK4FATT	"	16,376	93	36	53	*LR1TA	"	828	19	10	13	(OP:CE4UJU)	"	10	11,016	95	20	34	P41ETL	"	16,720	175	18	70	SP4FGF	"	32,648	329	17	60	(OP:WS4T)	
VK8AR	"	8,382	62	30	36	*LU3DC	"	16,254	525	55	92	(OP:CE4UJU)	"	9	9	7	13	RA3WR	"	17,886	240	11	55	SP2QOT	"	17,886	240	11	55			
*VK5AKH	"	6,695	49	27	38	*LU6DG	28	961,900	2406	33	108	*CE4SGF	21	70,070	287	29	69	GM4HOF	"	16,632	119	21	67	ON3DI	"	16,368	211	10	52			
*VK5SMC	"	3,692	45	26	26	*LU7DUC	"	387,530	1093	33	97	*CE3GDR	7	11,016	95	20	34	TX3AU	"	14,996	72	39	53	CO6CBF	"	16,120	145	16	46			
VK2GR	"	3,268	34	20	23	*LQ1H	"	353,340	1087	27	90	*CE2WZ	A	7,080	45	27	33	DB49AT	"	13,284	95	34	48	I21Z3BF	"	13,608	208	11	52			
VK1XYZ	"	2,279	27	20	23	*LU3DK	"	216,506	803	23	80	*CE3KHZ	28	51	154	55	65	RA09AT	"	10,384	103	20	39	JH1APZ	"	4,032	60	14	14			
VK8HPB	"	2,279	25	20	23	*LU5MT	"	144,942	552	54	78	*CE5KR	A	31,155	465	77	179	CO2VE	"	10,260	79	18	36	J42MVW	"	3,680	53	15	17			
V16CR	"	2,067	28	18	21	*LU7UZ	"	108,903	500	22	71	*HK3Q	"	154,030	296	67	144	RA09QA	"	10,147	99	27	46	IP7J	"	3,000	81	7	33			
VK7BEN	"	1,620	23	10	17	*LU75EAE	"	81,524	388	22	67	*HK8EA	"	8,512	59	23	41	D3JGE	"	9,727	55	32	39	N2JNZ	"	8,915	60	13	39			
VK6WX	"	936	18	12	14	*LU8UDY	"	78,526	376	22	57	*HK6RF	"	6,448	68	25	27	NY2BMU	"	10,530	282	13	58	Y05PHY	"	8,493	71	27	30			
VK4M0N	"	357	12	8	9	*LU8DDX	"	71,298	352	35	75	*HK3TU	28	37,428	1438	29	89	RA0RBO	"	5,301	312	23	58	Y05PHY	"	8,493	71	27	30			
VK5MPJ	"	70	5	5	5	*LU1WGD	"	69,600	316	24	63	*HJ4ZJS	"	50,301	312	23	58	Y1U1LM	"	5,840	72	21	52	4L9QO	3.7	64,980	425	8	49			
VK4EJ	28	176,890	659	29	66	*LU6DAK	"	52,440	267	26	51	(OP:LUG6KA)	"	16,254	525	55	92	Ecuador	"	5,616	38	21	31	(OP:UR9QO)	"	13,939	266	8	45			
VK2NU	"	35,192	158	25	58	*LU9DHR	"	18,312	179	16	26	(OP:LUG6KA)	"	16,254	525	55	92	Brunei	"	5,616	22	29	64	4L9QO	3.7	64,980	425	8	49			
VK1VS	3.7	121	81	5	6	*LU1EXR	"	18,392	107	21	55	(OP:LUG6KA)	"	16,254	525	55	92	Guam	"	5,616	38	21	31	4L9QO	3.7	64,980	425	8	49			
East Malaysia																																
9M6YBG	A	739,140	1364	83	111	*LU2DVF	"	3,672	52	14	22	*CE2WZ	A	1,220,820	2972	113	275	Paraguay	"	15,632	119	21	67	RA09AT	"	12,384	211	10	52	4L9QO		
9M4SMY	"	161,283	534	50	61	*LU1BL	"	473	15	6	5	*CE3DNP	14	414	21	12	11	Colombia	"	14,996	72	39	53	RA09AT	"	12,384	211	10	52	4L9QO		
9M8YY	28	187,824	755	27	59	*LU7ADR	"	21	12,144	69	26	40	*CE3EM	21	2,794,092	5177	40	146	Peru	"	14,632	119	21	67	RA09AT	"	12,384	211	10	52	4L9QO	
*W9WZAM	28	4,520	59	18	22	*LU2EM	"	2,822	516	30	64	*CE4SES	28	2,275,364	4322	38	144	Suriname	"	14,632	119	21	67	RA09AT	"	12,384	211	10	52	4L9QO		
Fiji																																
*3D2A	28	1,135,148	2801	34	108	(OP:VK4AN)	"	9,020	14,427,240	7666	157	497	P40W	A	1,447,240	7666	157	497	Aruba	"	15,632	119	21	67	RA09AT	"	12,384	211	10	52	4L9QO	
AC2AI/KH2	A	1,334,158	2101	92	141	*PU43E	A	350,001	832	51	98	PZ5DCA	21	781,059	1808	37	130	Paraguay	"	14,632	119	21	67	RA09AT	"	12,384	211	10	52	4L9QO		
WH2X	"	1,329,447	1850	90	169	CP1FF	A	7,494	228	44	105	PZ6DYA	28	13,794	153	21	36	Bolivia	"	14,632	119	21	67	RA09AT	"	12,384	211	10	52	4L9QO		
NH7A	A	6,593,994	5013	143	316	(OP:PT2CAV)	"	13,248	86	20	52	RA09AT	"	13,747,726	5216	131	367	Brazil	"	15,632	119	21	67	RA09AT	"	12,384	211	10	52	4L9QO		
NH6WZ	"	492,863	955	74	107	PY2YU	A	7,747,726	5216	131	367	PZ5DCA	21	3,100	70	12	13	Suriname	"	15,632	119	21	67	RA09AT	"	12,384	211	10	52	4L9QO		
NH6GT	"	225,212	715	54	68	PY2Z	"	1,323,328	5216	68	199	PZ5DCA	21	1,260	47	10	43	RA09AT	"	15,632	119	21	67	RA09AT	"	12,384	211	10	52	4L9QO		
NH6RO	"</td																															

KF20	1,047,948	685	139	422	N4POX	2,030,380	1191	145	460	*K5ID	A	696,930	672	101	289	AC8G	964,432	826	112	324	*KCOJRW	107,900	241	49	117			
K20NP	977,523	799	117	340	N3CZ/4	1,907,888	1396	120	372	*N1CC/5	A	442,974	509	44	234	N9MZ	768,504	671	112	314	*W0V9	62,466	153	71	103			
N2VW	930,125	713	124	364	KE4UW	1,853,220	221	133	439	*AD5CA		303,038	414	78	199	KU1T/8	758,875	810	66	259	*W0RU	30,086	144	34	64			
K20LJ	636,944	775	81	248	N4KG	1,678,051	1388	143	446	*WB0URU/5		102,630	234	45	120	K9MJZ	340,000	464	55	197	*N0UV	24,006	552	30	66			
K2CY	582,072	653	76	240	K4TQZ	1,514,444	102	95	354	*KS9W		71,824	199	52	82	W8TE	173,145	245	72	183	*W0OOLU	15,770	71	35	48			
K2BX	559,350	605	92	247	K5AUP/4	1,421,967	1110	14	339	*WAS9NOM		20,256	75	30	66	N9XE	31,872	102	50	79	*NR0L	3,450	34	26	30			
K2V2	502,252	457	100	309	N4VV	1,433,930	920	120	402	*WA5WFE	28	66,216	276	24	65	N9IW	29,264	91	46	72	*N0ANP	2,790	34	26	30			
K2RB	412,227	489	66	215	WB4MSG	1,185,336	932	120	369	*K1KZ/5		30,480	171	19	61	N9KOJ	864	15	24	45	*N0MK	2,352	26	20	30			
K20PN	405,855	489	78	233	KG4W	1,143,610	886	111	352	*N4IJ/5	21	250,470	592	39	126	W8CZN	28	443,352	923	37	*W0RAA	40,083	166	25	68			
AA2DC	349,700	393	78	249	N4RV	1,096,430	126	126	368			126,408	406	67	100	W6TK	A	1,555,606	1148	139	355	*N9BL	129,413	393	30	45		
N2ED	346,060	585	53	167	N3MK4	1,096,215	770	126	408	*A6PW		1,540,250	1144	137	368	*WD8S	A	630,825	703	85	240	*N0HF	21	306,571	774	36	145	
WK2H	300,150	410	54	207	WV4CP	983,180	978	97	313			1,392,336	989	129	399	*K9BL		404,992	344	118	330							
W2LE	292,516	479	44	173	W7WZ/4	944,376	102	106	350	*N6QO		129,129	373	373	373	*K8LY		401,028	508	63	213	AL9A	A	3,131,496	1787	98	226	
K2XF	286,314	442	53	185	A4ADP	932,715	818	112	293	K6TA		1,247,210	1095	121	299	*NABM		302,806	368	88	213	311		319,792	501	73	155	
N1JP/2	222,915	347	51	180	K10K/4	926,115	785	105	330	K9CY/6		1,193,189	892	127	352	*A8IA		183,048	294	66	166	NL7	A	279,552	814	65	91	
K2SG	199,888	299	66	182	W2YE/4	872,588	796	95	272	N6WS		1,160,520	949	130	326	*K9GT		135,142	259	59	138	*KL2HD	*	35,280	145	46	52	
NA2M	126,480	260	49	137	NF4A	767,276	647	110	323	W6SR		1,149,874	952	139	326	*W0USA		91,350	216	48	127	*WL7E	28	507,366	1472	37	105	
K2XA	97,194	193	66	128	W7D0/4	711,226	670	102	295	W1RH/6		949,874	532	99	243													
N2WKS	"	93,513	188	58	N2TU/4	627,270	534	110	325	N6KI		1,451,245	534	107	228	*K9TS		82,134	182	51	118							
K2MK	82,739	201	43	114	W4AS	581,728	546	96	296	W6XV		1,255,381	384	85	216	*N8V8		54,210	138	36	103							
N2OO	60,325	179	44	83	K4L0	576,138	536	104	289	N6DA		1,290,342	482	91	158	*AC9ZB		34,146	124	45	81							
W2NK	54,470	163	43	87	K5V1P/4	552,900	521	103	277	K1QDQH		1,282,318	450	78	145	*K9Z2KI		7,040	44	23	41							
K2NV	52,094	173	36	86	W7FW/4	458,388	525	84	222	K6ST		1,247,270	319	101	222	*W8IDW		6,213	24	45	32							
AB2E	45,696	141	43	85	K1M1J/4	382,796	463	86	246	K6II		1,244,212	320	97	185	*W8WTS		726	14	10	12							
WF2B	42,000	124	39	86	K4BP	352,060	435	93	197	N6U7		1,234,240	374	86	170	*K9THU		192	6	6	6							
N2WK	8,330	56	29	41	N4DV	334,305	482	83	202	W6FZ		1,217,047	364	73	140	*AD8W	28	36,450	152	25	65							
N2CJ	"	8,250	53	26	40	W4PG	312,354	549	152	250	W6DP		1,204,823	309	71	186	*AE8YL	21	7,872	54	17	47						
W2RR	310,488	229	107	NM4X		228,179	312	74	185	K6EP		1,198,126	229	72	127	N2BJ/9	A	3,901,347	2511	143	450							
K2CJ	"	29,185	151	44	N4CR	(OP-W2A0G)	218,450	297	76	181	W6JJ		1,185,100	218	76	178	W09Z	A	1,285,826	1330	151	447						
AC2AJ	"	6,888	50	17	39	N4DW	211,357	365	73	168	N5K0/6		1,170,228	267	53	109	K9IMM		2,169,706	1540	121	390						
N2YBB	21	228,483	516	37	N2FC/4	176,326	285	64	173	N6E1		1,161,788	225	72	127	N2BT/9	A	1,285,700	2511	143	450							
N2MUN	"	199,665	515	29	106	(OP-W4V1G)	170,400	280	64	173	N6PR		1,151,886	243	72	127	W09Z	A	1,285,347	2511	143	450						
WR2G	14	138,320	352	32	108	W4AX	173,478	378	50	124	K6FJG		1,150,287	243	72	127	N2BT/9	A	1,285,347	2511	143	450						
WA2AOG	3,7	5,760	58	10	30	W4IR	172,536	624	141	273	W6AKBL		1,149,777	243	72	127	W09Z	A	1,285,347	2511	143	450						
K2AD	A	1,073,190	916	95	320	NV4A	169,442	254	67	180	K6II		1,149,777	243	72	127	N2BT/9	A	1,285,347	2511	143	450						
*WA3RHW/2	"	1,242,729	531	77	220	K4QPL	162,759	528	67	180	W6GJB		1,149,777	243	72	127	N2BT/9	A	1,285,347	2511	143	450						
*W2RDM	"	296,496	415	55	206	K4APG	162,024	250	75	183	W6CZG		1,149,777	243	72	127	N2BT/9	A	1,285,347	2511	143	450						
K2SI	"	64,236	154	52	107	K4LDI	157,176	278	62	162	K6XC		1,149,777	243	72	127	N2BT/9	A	1,285,347	2511	143	450						
N2SCJ	"	39,039	107	42	101	N4DXI	151,380	305	56	124	A6GAZ		1,149,777	243	72	127	N2BT/9	A	1,285,347	2511	143	450						
*K9CHP/2	"	33,804	127	36	76	N4TL	131,670	296	44	121	K6FJL		1,149,777	243	72	127	N2BT/9	A	1,285,347	2511	143	450						
KC2NYU	"	32,344	126	28	76	K1GU/4	117,208	234	54	130	W6PK		1,149,777	243	72	127	N2BT/9	A	1,285,347	2511	143	450						
K2TZY	"	32,334	112	30	72	N3BM/4	98,256	148	54	124	K6AW	28	431,630	959	38	132	N2BT/9	A	1,285,347	2511	143	450						
*W2CL2	"	25,351	89	28	73	N4NM	98,256	148	54	124	K6AW	21	431,256	967	36	127	N2BT/9	A	1,285,347	2511	143	450						
*K4JC/2	"	16,910	68	32	32	W4MJW	95,337	223	47	144	A4AEZ/6		55,014	220	32	74	KOTQ/9		1,285,347	2511	143	450						
*W2BV2SL	"	15,379	74	30	71	A6E4X	95,064	231	48	90	N9KBT		1,285,347	2511	143	450												
K2AEV	"	12,462	72	17	15	W3N/4	95,142	230	48	90	N9KBT		1,285,347	2511	143	450												
*N2RQ	"	10,075	62	22	43	W04MW	95,142	158	44	177	W6DTB		1,285,347	2511	143	450												
*K2MFY	28	293,124	675	31	125	W4AEJ	87,389	110	30	91	N9KBT		1,285,347	2511	143	450												
N2FF	"	247,456	581	30	124	N4WW	82,712	97	44	122	N9KBT		1,285,347	2511	143	450												
K2PAL	"	8,748	70	15	39	W4GHD	82,292	109	37	71	N9KBT		1,285,347	2511	143	450												
*KS2G	21	118,950	346	26	96	N3P/4	82,199	101	23	56	K6DNR		1,285,347	2511	143	450												
N3NW	A	11,828,236	491	185	N63	W6UB/4	8,666	498	24	94	*W0R/4	28	846,022	1768	37	130	*W0R/4		1,285,347	2511								

ZS5ZZ	A	24,960	100	39	57	South Africa	*BG3NUI	"	160	15	5	5	*BD7NWF	28	402,066	1282	32	94	A	Singapore	63,648	209	59	85	*9V1RM	A	7,169	82	18	49	UAEACA	*	5,510	45	23	35
*ZSSSAM	A	191,751	446	51	110	Sudan	*BD43D	"	185,859	703	28	79	*BD5PN	"	41,022	214	24	54	HL1/WX8C	14	9,288	82	21	33	*9A2NO	28	75,999	217	32	109	R4RM	*	1,824	22	16	22
ST2AR	A	9,036,981	5261	146	445	ASIA	*BD5QAS	"	37,904	252	27	65	*BD5CC	"	1,740	32	14	16	*GK5AQY	A	31,717	781	67	105	*9A4VM	28	30,780	203	24	36	R4RT	*	1,740	20	14	16
RG9A	A	8,755,143	4008	171	636	Asiatic Russia	*BD78AH	"	95,598	503	27	67	*BD78AH	"	14,784	122	22	42	*H1V1AU	A	272,880	483	86	154	*9A1JSB	3.7	35,866	423	12	67	UA4AZ	*	6,768	30	5	21
UA9MA	A	1,895,932	1861	99	278	*BD47K	7	14,405	103	20	47	*BD47K	7	600	18	10	10	*DS1EY	C	5,358	65	17	21	*9A2NO	28	75,999	217	32	109	(OP:9A2GA)	*	293,350	678	38	129	
UA9CCQ/9	A	1,563,289	1114	131	402	*BD4T5	3.7	1,072	64	7	9	*BD4T5	3.7	8,013	97	23	28	*BV4VQ	A	8,313	97	23	28	OL3R	A	4,527,628	3092	149	558	Czech Republic	*	418,676	1291	39	149	
UA9CDC	A	1,423,494	1126	109	37	Cyprus	C4N	28	1,361,615	2738	40	153	P3J	"	738,852	1904	34	104	*EY7BJ	A	768,300	979	81	244	RT5K	*	630,996	1302	36	140	R4RA	*	302,696	148	39	149
RM9RZ	A	1,230,500	980	126	374	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
R9DA	A	983,364	1008	27	104	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
UA9BA	A	784,822	543	124	439	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RW9QC	A	762,372	842	98	253	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
R8MC	A	750,424	660	118	350	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
R9XT1	A	600,400	812	79	278	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
UA9CGL	A	482,655	585	96	263	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RW9QA	A	322,560	473	78	180	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RN9JC	A	254,539	308	103	222	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
R8AA	A	80,454	198	42	117	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
UA9BS	A	41,415	42	44	89	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RL9AA	28	793,156	1552	37	144	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RC9A	A	393,304	102	34	212	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RK8I	A	166,161	699	91	273	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
UA9SCX	A	89,019	376	25	78	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RM9W	A	55,000	189	34	100	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
UW9CSA	A	29,916	111	27	81	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RA9SPF	21	270,217	707	38	124	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RK9DM	14	320,108	751	38	122	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RA9AU	A	267,202	751	38	122	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RW9TP	A	110,055	304	34	111	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
UA9YF	A	10,659	71	23	35	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
R9CK	7	793,321	2005	33	124	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RA9FWC	3.7	68,822	377	18	71	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
RF9FC	A	1,663,644	1262	112	364	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
*RV9UP	A	1,405,128	1196	118	246	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
*RK9UE	A	629,097	906	68	209	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
*RA9DC	A	345,866	642	86	230	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
*RA9DC	A	536,884	642	86	230	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
*RA9DC	A	541,856	508	105	236	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	595	28	110	*EY8ZF	A	207,690	595	28	110	Taiwan	*	210,749	609	38	129	R4RA	*	210,749	609	38	129	
*RA9DC	A	41,038	624	93	187	*H22H	A	3,006,224	1810	143	453	(OP:584HJ)	"	207,690	59																					

F1NZC	*	75,030	254	38	85	*DJ3JD	*	91,155	253	55	122	I240R0	7	117,764	943	26	92	S08T	*	996,730	1191	119	372	*Y03FCG	21	1,170	29	8	18								
TM1E	21	864,612	2185	39	149	*DP6P	*	78,642	674	19	83	I21CAR	*	107,940	615	32	108	S07A	*	927,168	1317	109	331	*Y05Q	7	97,136	794	19	85								
TM4CW	"	798,560	1959	39	149	*DP4F4CN	*	DL1D8R	68,403	233	49	74	I22AMS	*	34,344	191	24	82	S07A	*	927,168	1317	109	331	(OP-SP7TJU)												
TM11	"	745,140	2145	39	126	*DP4F5TR	*	D02TE	66,500	240	47	93	I22FOS	1,8	26,441	410	10	61	S07A	*	821,250	1004	103	273	(OP-SP7MOC)												
F8ARK	14	623,700	1894	40	128	*DP4F5TR	*	D02TE	53,200	181	58	142	I22TDM	*	4,277	99	5	42	S09LR	*	818,896	1000	120	376													
*F4GCC	A	210,256	515	67	205	*DP4F5TR	*	D02TE	43,032	170	44	119	I21K0N	A	387,940	676	85	255	S08XJ	*	514,500	731	101	242													
*F4GDI	*	149,593	338	74	156	*DP4F5TR	*	D02TE	35,332	168	35	86	I21KRN	*	375,001	402	122	345	SP1MVG	*	243,846	657	51	208	GM0FCI	A	454,194	808	88	263							
*F4FRF	*	20,453	104	40	73	*DP4F5TR	*	D02TE	34,320	160	45	85	I21KDH	*	169,344	347	81	165	SP1KRF	*	325,728	659	56	153	GM4JR	*	444,542	699	73	208							
*F4FOO	*	3,036	25	21	23	*DP4F5TR	*	D02TE	29,260	119	45	95	I21ZNL	*	3,417	35	21	90	S07BFS	*	30,799	183	32	67	MM0GPZ	*	325,728	659	56	153							
*F4F1A	*	130	8	5	8	*DP4F5TR	*	D02TE	29,154	101	41	72	I21ZCSX	*	150	5	5	5	SP4UTJ	*	23,937	123	33	68	MM3T	28	430,824	1229	39	135							
*F4EZJ	28	330,533	849	40	128	*DP4F5TR	*	D02TE	28,182	148	29	37	I21ZHL	*	84	4	3	4	SP4UTJ	*	325,728	659	56	153	(OP-GM0ELP)												
*F4FDA	*	263,796	706	39	117	*DP4F5TR	*	D02TE	25,172	100	45	71	I21WECJ	*	7	107,940	140	45	152	YU1AAV	A	167,335	364	76	169												
*F4GTD	*	147,870	406	40	119	*DP4F5TR	*	D02TE	23,058	99	47	75	I21K2Y	28	345,750	964	39	111	YU1AAV	"	70,226	248	43	103													
*F4FEP	*	142,448	346	39	77	*DP4F5TR	*	D02TE	21,944	135	30	74	I21K4T	*	310,656	645	40	152	YU1AAV	"	49,446	530	13	69													
*F4FYF	14	6,549	97	13	46	*DP4F5TR	*	D02TE	20,384	81	44	47	I21WON	*	309,705	759	39	126	YU1AAV	"	14,753	177	38	145													
*TM0W	7	35,433	304	18	75	*DP4F5TR	*	D02TE	18,096	98	38	66	I21WUJ	*	123,074	409	109	207	YU1AAV	"	717,332	1881	40	147													
*F1EBN	3.7	64,902	684	15	72	*DP4F5TR	*	D02TE	17,887	118	27	50	I21K3TO	*	20,223	126	23	90	SP1MKW	*	6,565	40	27	38	YU1AAV	"	44,538	1771	38	145							
DC4A	A	4,708,836	2613	176	652	*DP4F5TR	*	D02TE	17,780	128	28	16	I21D9GT	*	3,520	28	18	26	SP2HMM	*	6,726	63	21	26	YU1AAV	"	53,963	556	21	10							
DL7ON	"	2,917,728	1768	172	620	*DP4F5AC	*	D01SVA	1,518	22	12	11	I21L0J	*	14	1,437,180	3088	40	164	SP2HMM	*	233,129	250	80	98	YU1AAV	"	609,718	2400	36	130						
DL5AM	"	2,722,296	1602	163	581	*DP4F5AC	*	D01SVA	1,370,900	405	40	100	I21L0J	*	14	15,732	154	17	52	SP5DIPR	*	24	2	2	2	YU1AAV	"	53,963	556	21	10						
DL5GAC	*	1,858,800	1605	135	462	*DP4F5AC	*	D01SVA	1,370,280	403	36	94	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	544,116	2192	35	124						
DL1WA	*	1,795,336	1479	138	476	*DP4F5AC	*	D01SVA	78,080	237	38	90	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	47,025	430	20	75						
DL5AN	*	1,725,948	1442	135	432	*DP4F5AC	*	D01SVA	56,720	120	30	94	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	117,130	2179	35	124						
DK5D0	*	1,414,512	987	143	484	*DP4F5AC	*	D01LTL	42,180	194	30	65	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	44,538	1771	38	145						
DL5AXX	*	1,330,758	1212	120	294	*DP4F5AC	*	D01R1J	24,102	124	29	99	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	104,139	466	30	103						
DC3RJ	*	1,328,150	1221	120	404	*DP4F5AC	*	D01L0J	17,472	84	26	52	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	104,139	466	30	103						
DJ7VP	*	1,300,374	1053	133	488	*DP4F5AC	*	D01L0J	1,474	20	12	11	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	104,139	466	30	103						
DL8DAZ	*	1,234,676	1254	128	414	*DP4F5AC	*	D01L0J	136,850	394	40	121	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	104,139	466	30	103						
DF5ZV	*	1,116,378	1032	132	437	*DP4F5AC	*	D01L0J	87,320	45	31	87	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	104,139	466	30	103						
DM2DXA	*	1,082,087	849	128	395	*DP4F5AC	*	D01L0J	6,771	98	13	48	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	104,139	466	30	103						
DLJUK2VOC	*	1,011,303	373	180	270	*DP4F5AC	*	D01L0J	993,240	103	10	109	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	104,139	466	30	103						
DF9GR	*	993,240	1183	117	348	*DP4F5AC	*	D01L0J	978,648	193	26	35	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	104,139	466	30	103						
DL4LAM	*	978,648	193	26	35	*DP4F5AC	*	D01L0J	261,500	341	11	211	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	104,139	466	30	103						
DL2RG	*	537,107	597	119	304	*DP4F5AC	*	D01L0J	347,200	403	29	126	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	104,139	466	30	103						
DL9EO	*	485,375	684	84	269	*DP4F5AC	*	D01L0J	461,499	92	23	236	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	104,139	466	30	103						
DL5VM	*	466,290	911	111	220	*DP4F5AC	*	D01L0J	344,040	521	101	265	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	104,139	466	30	103						
DL1HPS	*	449,550	586	89	152	*DP4F5AC	*	D01L0J	814,174	746	15	327	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	104,139	466	30	103						
DL9NDV	*	424,728	638	101	307	*DP4F5AC	*	D01L0J	1,210,318	271	39	160	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	104,139	466	30	103						
DL9NCR	*	386,992	545	112	249	*DP4F5AC	*	D01L0J	163,313	414	57	140	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	104,139	466	30	103						
DL4YAO	*	373,184	582	97	246	*DP4F5AC	*	D01L0J	1,210,318	501	151	354	I21L0J	*	14	1,437,180	3088	40	164	SP4YPB	"	443,190	990	40	147	YU1AAV	"	104,139	466	30	103						
DL8RD	*	353,058	614	84	245	*DP4F5AC	*	D01L0J	73,359	202	55	116	I21L0J	*	14	1,437,180	3088	40	164	SP1RK	28	508,941	1201	40	153	YU1AAV	"	104,139	466	30	103						
DL2MD	*	346,632	623	163	75	*DP4F5AC	*	D01L0J	840	30	9	21	I21L0J	*	14	1,4																					

*EE7K	21	60,888	329	25	93	New Zealand	ZM4M	A	476,364	801	73	141	I0UZF	28	243,660	672	38	117	U.S. Virgin Islands	9A7B	66,400	351	26	54	
*EF7W	7	105,062	694	26	105		ZL1XX	"	400,392	580	89	179	R7NA	"	152,289	539	28	82		9A7P	23,912	201	29	53	
EA5HSI	"	40,067	277	23	80		ZL50GH	"	195,833	376	69	140	Y0DDP	"	116,490	650	28	82		9A7DRI	4,444	107	7	37	
*EA1GT	"	17,475	149	14	47		ZL3TE	28	547,542	1686	31	81	R2AD	"	76,230	396	29	61	Africa	OK5W	11,809,120	5496	189	731	
*EA1FH	1.8	2,074	69	5	29		ZL2HAM	14	6,578	63	18	28	K2FWA/4	"	63,105	220	26	79	Cape Verde	OK7T	4,846,202	3055	154	460	
						Sweden	NH0S	A	4,242,700	4322	104	246	R3AFY	"	29,436	195	19	47	Madeira Islands	OK7O	4,258,800	3735	130	430	
8S0C	A	2,162,916	1389	156	600	Northern Mariana Islands	DU1INT	A	1,021,650	1464	85	160	DU1AJ	"	3,360	54	11	13		OK5L	3,424,831	2694	144	469	
SM5D	"	1,525,920	1224	141	519	Philippines	DU1AV	"	245,916	746	54	78	HAGNN	"	2,601	41	10	25		OK1C	2,835,360	2492	128	394	
SM6NOC	"	676,863	724	127	346	DU1HF	21	1,056	29	9	13	RM2MW	21	2,304	40	11	25	Morocco	OK2KQJ	1,403,574	1330	127	394		
SJ6A	"	611,200	767	101	281							HG1X	14	77,561	34	30	91		OK1KH	716,406	1180	98	319		
SM5CZQ	"	235,365	532	53	142	SOUTH AMERICA	E1AHF	"				VE3XO	"	6,060	95	11	49	Tunisia	OK2KJI	527,850	986	82	263		
S12E	"	117,568	363	40	127	Argentina	I21DG	3.7				IZ1DG	"	3,430	108	5	30		OK2LZ	386,244	834	76	244		
SM6NET	"	10,480	50	33	47	LW3EWZ	A	79,744	273	47	81	DD9WG	"	2,176	65	4	30	South Africa	OK3WL	1,600	33	12	28		
SM5PEO	"	6,110	53	18	29		LU5OJ	"	3,403	29	16	25	Z55NK	"	690,816	987	74	183	Denmark	OK3VKA	1,431,832	1886	94	262	
SFT7W	28	161,872	440	40	94	Brazil	LU1FL	14	20,739	126	30	63	ST2UOK	"	560,048	910	57	175	England	OK3BAL	74,290	207	46	124	
7S5C	"	101,388	365	31	88	PR1DX	A	459,142	1001	67	106			18,808,540	7765	175	669	European Russia	OK3THY	26,666	156	34	79		
SM5CEU	21	161,148	469	35	121	PR1BT	A	20,368	134	16	51							OK3VIA	6,317,600	4120	164	581			
SM6E	7	6,726	64	15	44	LU6EBY	"	15,444	122	20	34	TS2A	"	262,269	556	44	137	Tunisia	OK3GW	2,504,736	2648	121	347		
*SM7E	A	605,570	808	110	300	Aruba	P40A	A	14,332,656	7478	156	156	K1LZ	"	12,288,431	4947	185	714	Asia	OK3GANT	14,785,960	6882	189	718	
*SM6MVE	"	156,403	428	58	169		P40P	A	8,231,580	4345	151	507	N1MM	"	2,582,649	1580	144	459	Asiatic Russia	OK3G3B	1,398,579	1360	143	468	
*SA3V	"	132,687	323	62	145		ZX2B	A	6,756,156	4116	134	430	N1MC	"	1,005,140	877	5	314		OK3G4U	1,369,720	1486	110	330	
*SA0BJL	"	108,224	382	50	128		ZV2K	"	1,010,025	1236	100	235	K1VTR	"	894,795	777	105	330		OK3G5Z	523,852	937	83	288	
*SM6UXZ	"	7,597	119	17	54							W1OK	"	233,772	349	71	182		OK3GPIA	458,325	1148	62	127		
*SE3K	"	4,380	54	19	41							W1TM	"	120,152	240	49	135		RT9J	4,714,943	3196	136	457		
*SE5SS	28	131,634	433	37	145							W1AF	"	19,800	107	49	61		OK3R9CYA	3,099,926	2178	123	428		
*SM6LPF	"	1,176	20	10	11		PR2P	28	1,488,628	3394	36	128	K1AHVR	"	504	7	8	10		RT9W	707,616	1088	50	202	
*HB9SVT	A	11,322	96	29	82	Ukraine	PP6BS	"	440,916	1336	26	90	W2FU	"	8,630,622	3839	178	641		RL3A	14,899,344	7924	199	762	
UT2UU	A	1,996,472	2212	125	395	PP7WB	PY2WB	"	211,554	534	36	110	K2OAK	"	613,875	620	97	78		RU1A	13,019,190	6597	197	754	
UX0FF	"	1,762,992	1624	141	475	PP7VX	PY4OG	21	562,500	1132	53	143	W3MF	"	3,016,078	1752	147	475		RU1TA	9,068,010	5758	180	690	
UR5E	"	367,950	636	84	124	PP7VZ	PY2MV	"	394,747	197	29	62	W4WW	"	5,902,590	2864	169	586		RU1RTA	8,991,980	6023	188	713	
UT1AA	"	163,680	418	61	179	PP7WZ	PY2MV	"	135,082	299	60	205	W3QO	"	143,616	781	78	259		RU1RM5A	7,432,496	4923	189	685	
UR5EPG	"	135,082	299	60	205	PP7WZ	PY4OG	21	394,747	197	29	62	W4WW	"	4,642,444	3031	172	600		RU1UA5A	6,560,946	4873	155	555	
UZ5ZV	"	119,867	366	60	127	PP7WZ	PY4OG	21	97,414	2032	40	138	W4WW	"	4,026,344	2032	181	466		RU1UA5B	3,064,932	2582	160	540	
US0ZZ	"	97,020	170	83	162	PP7WZ	PY4OG	21	304,304	1018	28	84	W4WW	"	4,026,344	2032	181	466		RU1RTA	4,242,640	2730	130	430	
UR5MBA	"	81,021	199	69	170	PP7WZ	PY4OG	21	217,626	681	34	80	W4WW	"	63,666	148	50	112		RU1RM30	2,165,205	2490	133	462	
UT1KWA	"	10,152	116	20	52	PP7WZ	PY4OG	21	187,776	370	53	136	W4WW	"	1,344,139	1666	65	224		RU1RT57	1,330,655	1448	122	429	
UX3IO	"	6,954	55	27	30	PP7WZ	PY4OG	21	17,876	370	53	136	W4WW	"	974,624	1404	111	347		RU1RK3WA	9,058,010	5758	117	411	
UR5UCJ	"	15	3	2	3	PP7WZ	PY4OG	21	35,040	163	15	65	W4WW	"	1,344,139	1666	65	224		RU1RK4HT	6,570,600	1144	91	320	
UV1M	28	1,147,600	2837	40	160	PP7WZ	PY4OG	21	481,554	1029	38	148	W4WW	"	1,344,139	1666	65	224		RU1RK3Q	341,880	803	72	224	
UT2PX	"	481,554	1029	38	148	PP7WZ	PY4OG	21	8,240	108	20	108	W4WW	"	1,344,139	1666	65	224		RU1RK3WB	65,268	284	43	105	
UV5ZM	"	274,914	821	39	123	PP7WZ	PY4OG	21	8,320	60	22	30	W4WW	"	1,344,139	1666	65	224		RU1RK3WB	13,122	126	14	40	
UR5ZM	"	107,424	385	36	108	PP7WZ	PY4OG	21	9,050	127	24	92	W4WW	"	1,344,139	1666	65	224		RU1RK3WB	792	24	8	16	
UV0I	21	532,175	1743	38	137	PP7WZ	PY4OG	21	17,876	370	53	136	W4WW	"	1,344,139	1666	65	224		RU1RK3WB	2,204,774	2253	116	567	
UX1UF	"	323,795	991	34	121	PP7WZ	PY4OG	21	17,876	370	53	136	W4WW	"	1,344,139	1666	65	224		RU1RK3WB	7,032,342	4270	169	617	
UR6JGJ	"	63,979	238	35	102	PP7WZ	PY4OG	21	17,876	370	53	136	W4WW	"	1,344,139	1666	65	224		RU1RK3WB	4,543,909	3049	165	590	
UR5AS	1.8	47,960	495	17	71	PP7WZ	PY4OG	21	17,876	370	53	136	W4WW	"	1,344,139	1666	65	224		RU1RK3WB	2,137,884	1635	147	504	
*UZ0U	A	998,280	987	125	433	PP7WZ	PY4OG	21	436,834	127	31	105	W4WW	"	1,344,139	1666	65	224		RU1RK3WB	744,073	1483	73	180	
*UR5UGR	"	13,338	283	8	49	PP7WZ	PY4OG	21	4,089	60	14	15	K8AZ	"	8,987,264	3866	181	651		RU1RK3WB	6,468,850	3647	165	505	
Wales	GW9T	28	1,544,965	3411	40	153	Venezuela	H3KJJB	A	258,826	373	73	181	K9CT	"	3,913,784	2299	154	504		RU1RK3WB	4,046,413	3189	136	355
GW4OH	"	730,625	1710	40	135	Venezuela	Y4D	14	2,300,920	4377	38	146	K9DST	"	3,064,248	1755	152	484		RU1RK3WB	2,275,216	2116	143	431	
*MW0MAU	A	109,769	496	51	136	Venezuela	CX5TR	A	1,012,431	1429	81	178	W4WW	"	2,547,942	1679	129	413		RU1RK3WB	1,275,216	2116	143	431	
*GW9X	28	231,420	804	36	97	Venezuela	CX3AL	A	1,329,988	2533	38	143	W4WW	"	2,547,942	1679	129	413		RU1RK3WB	1,275,216	2116	143	431	
OCEANIA	Australia	VK4OH	A	1,974,820	2125	100	237	VY8AD	A	610,056	683	95	238	W4WW	"	2,547,942	1679	129	413		RU1RK3WB	1,275,216	2116	143	431
VK2BCQ	"	226,872	433	71	136	VY8AD	VY7OMF	28	64,125	335	26	49	W4WW	"	1,918,208	1479	121	387		RU1RK3WB	7,633,860	4351	166	620	
VK3GK	"	210,824	508	52	100	VY8AD	VY7OMF	28	25,920	168	17	47	W4WW	"	1,030,776	1243	90	258		RU1RK3WB	6,652,593	413			

Z3/E73ESP	Macedonia 4,080 81 14 46	SOUTH AMERICA	<i>The Pi4DX M2 crew, left to right: PD1DX, PC5Z, PA3EVY, PD2R, PD2DX.</i>		
PA6V PI4TIL	Netherlands 1,976,896 1914 134 410 98,914 359 34 103	Argentina LS1D 6,394,278 4279 139 422 LU1MA 4,583,205 3461 116 379 L07H 2,208,465 2233 109 260 LU1UM 1,224,432 1823 86 178 LT4S 852,110 1384 79 180 LQ4D 415,370 1022 61 85 LT5D 246,264 464 88 160			
GI0RQK	Northern Ireland 3,108,742 2782 117 434	Brazil PT5T 13,499,234 6679 172 550 PQ5B 7,731,140 4645 146 464 PW2D 7,177,716 4632 134 412 PX7C 2,320,640 2191 109 283 ZW8T 2,068,416 3116 69 183 PY3AA 94,554 268 56 97 PY2RH 52,318 217 36 65			
SN3R	Poland 13,582,404 6489 184 707 SN2B 12,735,414 5948 199 729 SN7H 1,505,835 2012 124 421 SP2KPD 1,225,614 1490 114 380 SP6PCL 530,750 717 102 284 SP3POZ 513,040 905 110 330	Chile CE2LS 854,686 1150 89 198			
C53P C07A CR6F CR5R CS0RCL	Portugal 3,727,520 3280 136 449 3,395,490 2849 149 541 2,701,725 2745 110 379 1,445,996 1459 138 461 68,930 481 25 88	MULTI-OPERATOR TWO TRANSMITTER NORTH AMERICA United States			
YR2X Y05KER	Romania 453,189 948 87 254 203,775 629 58 189	KB1H 8,238,586 3921 168 593 K2LE/1 6,297,060 3333 158 547 W1KM 2,423,350 2031 102 323 K0TV1 1,435,968 954 137 417 W1AN 1,071,174 899 110 333	DJ80G 8,061,408 4500 168 660 DK00G 4,977,456 3832 160 566 DP3E 3,233,097 2653 156 547 DL0WH 1,179,801 1257 130 419 DL0MER 64,350 263 48 117	MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA United States	Ukraine 1,280,180 2103 108 352
T70A	San Marino 12,905,132 7486 179 687	K2AX 5,578,812 2948 159 547 W2YC 3,362,408 1843 156 523 W2XL 3,288,600 2296 135 405	Hungary HG1S 13,594,480 7894 183 689 HG7T 12,603,930 8049 172 623	K3LR 36,033,540 13306 202 818 KC1XX 28,673,771 11401 198 743 W3LP 27,753,124 10880 200 771 WE3C 19,909,728 8341 191 685 W2PWP 15,927,028 7174 183 655 NO4I 15,201,482 7257 188 685 W4RM 13,895,984 6447 180 628 NK7U 11,049,972 5745 185 586 WD9AH/9 10,455,972 5384 180 608 WB3X 8,195,607 4206 159 563 NE3F 4,875,005 2698 160 531	OCEANIA Australia 1,442,089 1610 109 232 Guam 4,298,177 4828 117 260
GM7R GM0EGI GM7TA GM4AGG	Scotland 4,238,037 2658 155 544 1,202,040 1391 99 272 692,038 974 101 357 47,034 240 38 96	N3RS 5,471,244 2644 167 591 WA3EKL 3,680,056 2035 158 534	IR4X 21,086,492 9736 192 764 IR8A 2,330,025 2382 146 515 IR8W 285,785 668 73 232	Italy Hungary Iceland Latvia Lithuania Market Reef Netherlands Poland Portugal Romania Sardinia Spain Sweden Turks & Caicos	Hawaii 31,899,392 14518 194 590 Indonesia 6,761,077 4801 153 446 Philippines 504,742 988 85 132 South Cook Islands 13,550,395 8539 163 402
YT2T YT7W YU3ZA	Serbia 8,308,300 5409 161 609 2,382,732 2402 125 422 1,536,906 1822 118 400	W5RU 5,818,850 2987 169 556 N5YA 2,008,242 1334 140 418	YL7X 5,529,528 4420 161 571	Latvia Lithuania Market Reef Netherlands Poland Portugal Romania Sardinia Spain Sweden Turks & Caicos	Hawaii 31,899,392 14518 194 590 Indonesia 6,761,077 4801 153 446 Philippines 504,742 988 85 132 South Cook Islands 13,550,395 8539 163 402
OM8A OM7M OM5M OM0M OM3RRC OM3KZA	Slovak Republic 16,072,851 7394 193 758 13,090,794 6558 186 720 6,976,363 4729 170 647 1,283,412 1261 135 359 863,214 1156 111 340 14,877 152 21 66	W0AA 2,081,414 1509 128 375 K0GE 1,069,776 1009 110 304	W4DX 15,214,149 6382 175 662 P4W 1,292,160 1661 114 366 P4W 463,358 1000 73 249	Canada Costa Rica Montserrat St. Eustatius & Saba Antigua & Barbuda Bermuda Canada Alaska Cr5t Portugal Romania Sardinia Spain Sweden Turks & Caicos	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
S53M S53I S59DGO S59T	Slovenia 10,055,682 5484 174 645 831,810 1266 109 357 128,616 387 47 17 1,344 32 9 23	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 12,396,327 9313 172 635	Canada Costa Rica Montserrat St. Eustatius & Saba Antigua & Barbuda Bermuda Canada Alaska Cr5t Portugal Romania Sardinia Spain Sweden Turks & Caicos	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 2,555,308 1807 113 413 VE2DXY 3,878,175 3467 120 405	SP9PDF 2,043,108 1988 139 479 SP5PAU 1,364 33 13 18	Poland Portugal Romania Sardinia Spain Sweden Turks & Caicos	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
JW5E	Svalbard 2,400,810 2630 123 351	KL7RA 14,242,671 9394 156 483 KL2R 870,492 1306 101 200	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
SJ2W SK70A SI9AM SK6HD SK000 SM3SJN SK7A SK7CA	Slovenia 10,055,682 5484 174 645 831,810 1266 109 357 128,616 387 47 17 1,344 32 9 23	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
SJ2W SK70A SI9AM SK6HD SK000 SM3SJN SK7A SK7CA	Slovenia 10,055,682 5484 174 645 831,810 1266 109 357 128,616 387 47 17 1,344 32 9 23	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,116 7999 153 491 AA4V/VP9 10,582,080 7695 140 444	CR5T 2,538,284 3002 114 424	Puerto Rico 20,900 162 33 43	South America Argentina 18,919,015 9794 163 522 7,913,400 5699 136 409
EE2W ED5T ED1C ED1T ED50 EA3HCY ED1WW ED1G ED2W EA5URV ED2A EA4URJ EE4AT EA4EUW	Spain 12,082,756 6137 185 723 7,998,750 4825 170 640 2,758,000 2658 112 388 2,631,384 3319 105 349 2,581,571 2852 138 469 1,492,469 1857 104 303 1,190,189 1500 106 345 981,879 1335 97 314 968,223 1441 100 259 665,925 1335 80 245 565,068 982 88 284 532,644 803 90 283 19,594 129 30 67 30 4 3 3	V26B 12,422,			