

Results of the 2011 CQ WW WPX SSB Contest

BY RANDY THOMPSON,* K5ZD

Where were you when the clock ticked past 0000Z on March 26, 2011? Sitting in California freeway traffic at 4 PM on a Friday afternoon? Taking an afternoon walk at 1 PM on Saturday in New Zealand? Perhaps you were waking up from a pre-contest nap at 2 AM in Moscow? Or enjoying a cool evening at 9 PM in Argentina? Or finishing breakfast at 9 AM in Japan? A global DX competition doesn't wait until you are ready to go. It starts. For thousands of contesters around the world, the start of the 53rd CQ WW WPX SSB Contest was just what they were waiting for.

The clock ticked over and the bands filled with activity and excitement. Thousands of voices strained to be heard. For those at the receiving end of a pile-up the experience was exhilarating. For others, it was all about the thrill of discovering what the next turn of the dial would deliver. K8TE captured his experience this way: "Nice to hear so many stations! QRM is good!"

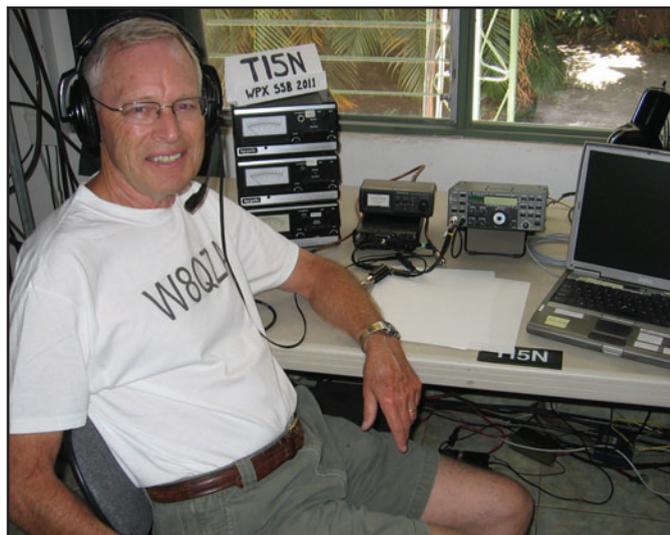
The band that generated the most excitement was 15 meters. Propagation was incredible with openings in what seemed like every direction. Long path, short path, or over the pole, many entrants noted that these were the best conditions they had ever experienced on the band. The scoring record for the single band 15 meter category fell at the World (CN2R), Asia (JA6GCE), Europe (CS2C), North America (VP2EH), and USA (KQ2M/1) levels.

When the 48 hours was over, the bands suddenly seemed empty. Satisfied operators sat back in their chairs, rubbed their tired ears, and sighed with contentment. KØJDD was happy: "First time to reach 1-million points." KG6DX exclaimed, "WOW, great conditions on 15. ... My first time ever breaking 1000 prefixes." AF2O showed why the contest activity keeps growing each year: "This was my first CQ WPX Contest and I can't wait for the next one." A record 5,143 logs were submitted showing contest activity from 208 countries!

One thing that makes the CQ WPX Contest so interesting is the use of callsign prefixes as multipliers. The gang at DR1A logged 1909 prefixes to increase their record count from just a year ago by almost 200! An amazing 217 entries exceeded 1000 prefixes after log checking. The top single operator prefix collector was CN2R, who worked 1443 prefixes (another record) and did it all on—where else?—15 meters! Each year it seems there are more and more interesting prefixes, both from the issuance of new callsign blocks as well as imaginative calls celebrating various events. Special thanks to those stations who provided some of the more interesting prefix multipliers: 3V1A, 4X2ØHC, BQ1ØØ, BV1ØØ, DK15ØRB, DR15ZBAY, HG2Ø11N, L9ØAA, LZ133GO, LZ137ØPRT, OH1ØX, RI1ANC, S52ØSCC, S52ØSLO, TC3C, TM72C, TM9ØLH, TO11A, VQ51V, YM7KA, and ZL5ØGH.

Single-Operator All Band

Returning to the top spot in the Single Operator All Band High Power category was Tom, W2SC, operating from 8P5A in Barbados. Tom expressed some frustration that the great conditions resulted in more multipliers, but not in a higher score than in 2010. Every continent except Africa was represented in the top 10. Jeff, K1ZM, pushed VY2ZM to world #2. The next three places were all close, with KH7X (op Mike, KH6ND) just beating the Oceania record to take third. Braco, E7DX, destroyed the European record by more than 25%. In only his third single op SSB contest and first in five years, John, W6LD, operated P4ØL from Aruba to fifth place and set a new record for South America. The best score from Asia was made by Anatoly,



Bill, W8QZA, looks very pleased with his world high score in the QRP category operating from T15N. (Photo by T15KD)

RC9O, just ahead of Vladimir, UN9LW, at UPØL. Anatoly missed breaking the Asia record by less than 1%.

Krassy, K1LZ, ran away with the top USA score for Single Op All Band. Paul, K8PO, once again operating as AJ1I, finished second. Mitch, K7RL, borrowed the callsign KW7Y and made an incredible effort from the Pacific Northwest to finish third. NN5J (op Kevin, N5DX) and George, NR5M, had a fierce fight for WRTC qualifying points that ended in a virtual tie.

The most popular category in the contest is Single Op All Band Low Power, this time with 1508 logs submitted. Just as we saw in high power, there was no place like Barbados. Yuri, VE3DZ, stayed away from the beach long enough to pilot 8P3A to the top spot and a new North American record for the category. The top Africa score was by Ashraf, 3V8SS, from Tunisia. Daniel, LW6DG, finished in fourth place and set a new country record for Argentina. The European battle was won by Mitrut, YO3CZW, finishing ahead of Tine, S5ØA. Top Asia score went to the nifty callsign of H22H, operated by Spyros, 5B4MF.

Ed, N1UR, masquerading as NV1N, achieved a personal best score and dominated the USA low power entries with over 4-million points. The real race was for second place, with Ryan, KZ9O, finishing just a few points ahead of Terry, N4TZ, the op at KS9K. Ryan was originally planning to operate from WØAIH, but a snow storm cancelled the trip. He did a great job from his home station instead. Doug, WB8TLI, and Guy, N7ZG, put up a spirited fight for fourth.

Single-Operator Single Band

Jim, W7EJ, continued his effort to write CN2R into the world records one year and one band at a time. This year the target was 15 meters. Jim now owns the all band record plus each of the single band records from 160 meters to 15 meters. Wonder which band he will operate next? Jim also ended the five year run of 15 meter single band victories by Sergio, PP5JR. Sergio, operating his contest call

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TROPHY WINNERS AND DONORS

SINGLE OPERATOR ALL BAND

WORLD: Stanley Cohen, W8QDQ Trophy. Won by: **8P5A** operated by Tom Georgens, W2SC
WORLD Low Power: Caribbean Contesting Consortium Trophy. Won by: **8P3A** operated by Yuri Onipko, VE3DZ
WORLD QRP: Phil Krichbaum, N0KE Trophy. Won by: **T15N** operated by Bill Parker, W8QZA

USA: Atilano de Oms, PY5EG Trophy. Won by: **Krassimir Petkov, K1LZ**
USA Low Power: Terry Zivney, N4TZ Trophy. Won by: **NV1N** operated by Edward Sawyer, N1UR
USA QRP: Doug Zwiebel, KR2Q Trophy. Won by: **Randy Shirbroun, ND0C**
USA Zone 4 High Power: Society of Midwest Contesters Trophy. Won by: **NN5J** operated by Kevin Stockton, N5DX
USA Zone 4 Low Power: Society of Midwest Contesters Trophy. Won by: **Ryan M. Klavekoske, KZ9O**
USA Zone 3 High Power: Lauri "Mac" McCreary, KG7C Trophy. Won by: **KW7Y** operated by Mitch Mason, K7RL
USA Zone 3 Low Power: Buz Reeves, K2GL Memorial Trophy. Won by: **Guy Molinari, N7ZG**

EUROPE High Power: Jim Hoffman, N5FA Trophy. Won by: **E7DX** operated by Emir Memic, E77DX
EUROPE Low Power: Ed Sawyer, N1UR Trophy. Won by: **Mitrut Marius, YO3CZW**
EUROPE QRP: Rick Williams, VE9HF Trophy. Won by: **Frank Paulus-Rieth, DL8LR**

AFRICA: Peter Sprengel, PY5CC Trophy. Won by: **ST2AR** operated by Robert Kasca, S53R
ASIA: Chris Terkla, N1XS Trophy. Won by: **Anatoly Polevik, RC9O**
NORTH AMERICA: Albert Crespo, F5VHJ Trophy. Won by: **TO5A** operated by Albert Crespo, F5VHJ
NORTH AMERICA QRP: Phil Krichbaum, N0KE Trophy. Won by: **no entry**
OCEANIA: Phillip Frazier, K6ZM Memorial Trophy. Won by: **KH7X** operated by Michael Gibson, KH6ND
SOUTH AMERICA: Andrew Faber, AE6Y Trophy. Won by: **P40L** operated by JOHN A. FORE, W6LD

CANADA High Power: Todd Bendtsen, VE5MX Trophy. Won by: **VY2ZM** operated by Jeffrey T. Briggs, K1ZM
CANADA Low Power: Contest Club Ontario Trophy. Won by: **Steven Goldberg, VA3SWG**
JAPAN: Hamad Alnusif, 9K2HN Trophy. Won by: **Akira Minagawa, JA0JHA**

SINGLE OPERATOR, SINGLE BAND

WORLD: Steve Merchant, K6AW Trophy. Won by: **CN2R** operated by James P Sullivan, W7EJ
WORLD 28 MHz: Jorge Taboada, EA9LZ Trophy. Won by: **Juan Manuel Morandi, LU1HF**
WORLD 21 MHz: Stuart Santelmann KC1F Memorial (W3UA/RA3AA sponsor) Trophy. Won by: **VP2EH** operated by Gordon Fogg, N5AU
WORLD 14 MHz: Jorge Taboada, EA9LZ Trophy. Won by: **Pedro Claver Orozco, HK1X**
WORLD 7 MHz: Jorge Taboada, EA9LZ Trophy. Won by: **Salim Gechem, HK1T**
WORLD 7 MHz Low Power: Neal Campbell, K3NC Trophy. Won by: **Valeri Keller, DL2VK**
WORLD 3.7 MHz: D4C Contest Team Trophy. Won by: **9A40Y** operated by Sasa Pokorni, 9A3LG
WORLD 1.8 MHz: UA2 Contest Club Trophy. Won by: **Fabio Piccinini, I4FYF**

USA 28 MHz: Maurice Schietecatte, N4LZ Trophy. Won by: **KZ5MM** operated by Chuck Dietz, W5PR
USA 21 MHz: Maurice Schietecatte, N4LZ Trophy. Won by: **Robert L. Shohet, KQ2M/1**
USA 14 MHz: Charles Wooten, NF4A Trophy. Won by: **John Bayne, KK9A/4**
USA 7 MHz: Yankee Clipper Contest Club Trophy. Won by: **WU3A/1** operated by Eugene Shablygin, W3UA
USA 3.7 MHz: Bernie Welch, W8IMZ Memorial (WB8MRU sponsor) Trophy. Won by: **Steven Sussman, W3BGN**

EUROPE 28 MHz High Power: SKY Contest Club Trophy. Won by: **CR2T** operated by Eduardo M. F. S. Machado, CU2AF

EUROPE 21 MHz High Power: SKY Contest Club Trophy. Won by: **CS2C** operated by Jiri Pesta, OK1RF
EUROPE 14 MHz High Power: SKY Contest Club Trophy. Won by: **Sigurdur Jakobsson, TF3CW**
EUROPE 7 MHz High Power: SKY Contest Club Trophy. Won by: **E17M** operated by Dmitriy Pavlov, EI3JZ
EUROPE 3.7 MHz High Power: SKY Contest Club Trophy. Won by: **9A8M** operated by Igor Ovcin, 9A7DM
EUROPE 1.8 MHz High Power: SKY Contest Club Trophy. Won by: **OG6A** operated by Jukka Klemola, OH6LI

SINGLE OPERATOR ASSISTED

WORLD: Emir-Braco Memic, OE1EMS Trophy. Won by: **ER4A** operated by Sergey Rebrov, UT5UDX
USA: Alabama Contest Group Trophy. Won by: **Rick Davenport, K1IG**
EUROPE: Martin Huml, OL5Y Trophy. Won by: **LX7I** operated by Philippe Luty, DF1LON

OVERLAY CATEGORIES

WORLD Tribander/Single-Element: Helmut Mueller, DF7ZS Trophy. Won by: **3V8SS** operated by Ashraf Chaabane, KF5EYY
USA Tribander/Single-Element: Paul Newberry, N4PN Trophy. Won by: **KR4Z** operated by Paul H. Newberry, Jr., N4PN
USA Tribander/Single-Element Low Power: Al Josza, KG1E Trophy. Won by: **Jere Connan, KT4ZB**
Europe Tribander/Single-Element: Roger Miner, K1DQV Trophy. Won by: **E74HH** operated by Vitomir Kregar, S56M
WORLD Rookie: Val Edwards W8KIC Memorial (K3LR sponsor) Trophy. Won by: **Abdalla Farmawi, JY5CC**

MULTI-OPERATOR, SINGLE-TRANSMITTER

WORLD: Latvian Contest Club Trophy. Won by: **3V1A** operated by YT1AD, YT3M, YT3W, S56A
USA: Steve Bolia, N8BJQ Trophy. Won by: **AK1W** operated by K5ZD, W1UJ
AFRICA: Rhein Ruhr DX Association Trophy. Won by: **6V7D** operated by UA0SC, UA0SE, UA0SW, RZ0SR
ASIA: W2MIG Memorial (NX7TT Sponsor) Trophy. Won by: **P33W** operated by 5B4AIE, RA6LBS, RA3AUA
EUROPE: Tonno Vanh, ES5TV Trophy. Won by: **TM6M** operated by F1AKK, F4DXV, F8DBF

MULTI-OPERATOR, TWO-TRANSMITTER

WORLD: Ken Adams, K5KA Memorial Trophy. Won by: **EB8AH** operated by EA5DY, EA5DFV, OH6RX, EA8ZS, EA8AH, EA8CAC
USA: Florida Contest Group Trophy. Won by: **KD4D/3** operated by AC6WI, W2CDO, K3RA, KD4D, WB2ZAB
AFRICA: Walter Skudlarek, DJ6QT Trophy. Won by: **5D5A** operated by N6KT, IK2SGC, IK2QEI
EUROPE: Bernd Och, DL6FBL Trophy. Won by: **OL4A** operated by OK1FFU, OK1RI, OK8WW, OM5AW, OM6NM

MULTI-OPERATOR, MULTI-TRANSMITTER

WORLD: Gail Sheehan, K2RED Trophy. Won by: **DR1A** operated by DB6JG, DF6JC, DJ7EO, DK6XZ, DL1QQ, DL3BPC, DL3DXX, DL6FBL, DL8DYL, DL8WPX, JK3GAD, PC5A, SV2KBS
USA: Dale Hoppe, K6UA Memorial Trophy. Won by: **WX3B** operated by WX3B, N8IVN, KB3CS, NY3A, N3YIM, KU1T, N3VOP, N3WZR, N3AFT, KC3VO, K1RH, KA3ITJ, N3SB
EUROPE: Rick Dougherty, NQ4I Trophy. Won by: **OT5A** operated by Arno, DF3TJ, Dorien, Marleen, ON1GL, ON3AEI, ON3AGM, ON3NG, ON4ADQ, ON4AEO, ON4AID, ON4AMI, ON4AQC, ON4ASB, ON4AWU, ON4CCL, ON4CCM, ON4CDE, ON4CJ, ON4GW, ON4JZ, ON4RK, ON4XB, ON5AEI, ON5CD, ON5CIM, ON5OT, ON5PVH, ON5UE, ON5UM, ON6LK, ON6LUQ, ON6MR, ON6PU, ON6SX, ON6UU, ON6YYY, ON7BRA, ON7JU, ON7NB, ON7SU, ON7USB, ON8MT, ON8TK, ON8UM, ON9CC, PA1BX, Timon

CONTEST EXPEDITION

WORLD: C6APR Memorial (PT7ZZ sponsor) Trophy. Won by: **3D2A** operated by OZ1IKY, VK4AN

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KZ5MM, generated the top USA score. Chuck worked a number of Europeans during openings on both days. Don't forget to check 10 meters in 2012!

While the improved conditions on the high bands helped spread the load, 20 meters was still packed with activity and QRM. Finishing with the second highest 20 meter single band score ever, and a new South America record, was Pedro, HK1X, operating from the up-and-coming Jumanji farm station. The old record was from 1995! Three Europeans battled it out for second place, with Sigg, TF3CW, pulling ahead on the strength of a 10-hour run Saturday on the prime frequency of 14.154 MHz. Kim, OH6KZP, pushed OH4A to third place over Goran, S55OO, at S55T. Kim moved up in the log checking on the benefit of a very accurate log.

The top USA score on 20 meters was a real horse race between John, KK9A, in North Carolina, and Dan, W7WA, in Washington. It was a classic East Coast vs. West Coast match up, with Dan having more QSOs and multipliers, but John winning on the basis of more DX contacts. John celebrated his birthday on Sunday of the contest by not leaving his operating chair once during the last seven hours.

The 40 meter Single Band category offered some of the best competition and some of the most difficult QRM of the week-



Alexei, VE2XAA, finished as World high score for Single Op Assisted Low Power. Alexei became a Silent Key in August, never knowing of his victory.

end. It seems the entire world was packed into 7125 to 7200. Whatever happened to working split?

Sal, HK1T, operating from the Jumanji farm superstation, took first place on 40 meters and broke the South America record set by ZX9A back in 1997. Close behind was Dmitriy, EI3JZ, operating from EI7M. The new record score for Europe goes well with the

one EI7M set on 75 meters last year. Steve, GW4BLE, using the special callsign MW5A, and Dusan, YU1EA, operating from YT8A, had excellent scores to also beat the old European record. Facing line noise and family scheduling issues, Gene, W3UA, decided to give 40 meters a try. The result was a new USA record for the callsign WU3A/1.

The competition on 75 meters was a

EUROPE TOP SCORES

SINGLE OPERATOR HIGH POWER ALL BAND		3.7 MHz		14 MHz		28 MHz		TRIBANDER/SINGLE ELEMENT LOW POWER ALL BANDS	
E7DX (E77DX)	20,438,120	*S57DX	610,136	*UA6LUJ	958,850	*CT2KFA	66,740	*DM2DX	2,742,168
ES5TV	17,333,274	*SP9H	585,932	*SP4DZT	903,139	I2Z0DM	42,350	*I2WIJ	2,224,908
OH10X (OH6JUM)	14,470,407	*ES2MC	402,992	*S59N	570,850	*EA1HVV	18,375	*E8GGB (ON4EI)	2,141,737
403A	14,210,416	1.8 MHz		7 MHz		I04FA (I24UEZ)	375,224	*G3VAO	1,969,692
GMSX	14,190,036	*YT4A (YT1AA)	194,103	*HG9X (HA9PP)	1,295,608	*EA4FTA	138,444	*EW1IP	1,482,960
28 MHz		*S52WW	121,426	*OK1UG	677,376	*YL3AGV	65,886	28 MHz	
CR2T (CU2AF)	866,500	*ER2RM	117,810	*2E1FVS	407,968			*YU2A	53,820
IT9ZTX	251,902	SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND		3.7 MHz		*Y0SLD	187,740	*I3RCH	25,925
G0AEV	164,905	ER4A (UT5UDX)	17,039,808	*D01HDR	386,508	*RA4SAT	155,367	*EE1B (EA1YB)	23,715
21 MHz		LX7I (DF1LON)	13,148,064	*Y8BWW	381,150	*I3HRT (I28QJG)	38,001	21 MHz	
CS2C (OK1RF)	9,479,430	DL3TD	11,701,024	*S06CU	286,134			*EA7RU	2,360,484
UZ2M (UR0MC)	5,995,920	UU7J (UU4JMG)	11,224,305	1.8 MHz		*RA3MAV	185,409	*I25EBL	1,771,893
RK4FF	5,890,665	E04M (UR5MW)	10,214,841	*SP8BK	63,855	*Y02MJZ	24,890	*EI4II	346,290
14 MHz		28 MHz		*E74AA	60,760	*9A6SJZ	6,201	14 MHz	
TF3CW	7,473,415	IU9A (IT9SSI)	373,440	*YU1XX	33,375			*S57U	442,508
OH4A (OH6KZP)	6,886,168	EB2AM	296,450	SINGLE OPERATOR QRP ALL BAND		*S02HNA	142,437	*I2ZJOP	246,202
S55T (S5500)	6,763,484	9A2U (9A3ZA)	254,584	DL8LR	537,010	*Y02MKD	2,048	*YP5WFF (Y05OAG)	154,904
7 MHz		21 MHz		SP2DN	410,400	*LA9NSA	24	7 MHz	
EI7M (EI3JZ)	10,787,690	E71A	6,175,638	RW3AI	310,809			*EC7KW	362,470
MW5A (GW4BLE)	9,480,053	EA7LL	5,671,710	UT5UUV	257,796			*I21DGG	276,624
YT8A (YU1EA)	9,174,753	TM2B (F4EGZ)	5,206,320	EA1GT	247,723			*OK2PPM	171,864
3.7 MHz		14 MHz		28 MHz		TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND		3.7 MHz	
9A40Y (9A3LG)	2,468,252	US11	4,744,214	I0UZF	86,742	E74HH (S56M)	6,598,899	*ON1CB	203,856
9A8M (9A7DM)	1,466,160	E03Q (UR3QCW)	4,436,640	ISKAP	43,792	RT4R0	6,340,471	*R3LC	176,276
EM0X (UT2XD)	1,404,288	SN8R (SP8ONZ)	4,233,257	EC4AA	6,468	E3A (EA3ATM)	6,160,826	*EC7AKV	56,718
1.8 MHz		7 MHz		21 MHz		DH8BOA	4,892,702	1.8 MHz	
I4FYF	569,080	YT0A (YT7AW)	9,905,910	YT1CS	142,896	E43RR	4,689,410	*YT4A (YT1AA)	194,103
OG6A (OH6LJ)	298,452	RT3F (RV3MO)	4,710,744	RT4W	128,270			*DD9WG	13,940
LY20U	253,982	S51CK	2,367,513	G3R (G0DCK)	119,493			MULTI-OPERATOR SINGLE TRANSMITTER	
SINGLE OPERATOR LOW POWER ALL BAND		3.7 MHz		14 MHz		28 MHz		MULTI-OPERATOR TWO-TRANSMITTER	
*Y03GZW	4,499,880	US2YW	1,958,076	9A2EY	94,400	IT9ZTX	251,902	TM6M	28,016,921
*S50A	3,810,142	IR4C (I24NIC)	1,553,035	SP3DRM	77,400	S56P	216,000	RL3A	20,949,828
*LY9A	3,565,608	EUI1A	1,398,984	SM6CRM	63,680	OESUAL	64,801	OE2K	19,384,308
*RM5D	2,967,752	1.8 MHz		7 MHz		21 MHz		OM7M	15,918,732
*DP4X (DL1MGB)	2,875,560	IQ4RA (I4AVG)	545,606	SP4FGF	206,365	EB3CW	4,227,038	I050	12,066,208
28 MHz		DF2UJ	400,365	9A9L	119,544	CT1EOD	1,391,940	MULTI-OPERATOR SINGLE TRANSMITTER	
*SV9GPV	514,215	EUSAR	393,242	UT8UL	49,096	I25CML	1,085,812	OL4A	33,215,652
*EA7ISH	231,825	SINGLE OPERATOR ASSISTED LOW POWER ALL BAND		3.7 MHz		14 MHz		9A1A	32,921,826
*9A5ST	67,639	*HA3DX (HA4XH)	3,984,042	HG6C (HA6IAM)	157,339	850C (SM0MPV)	2,429,799	9A1P	31,970,812
21 MHz		*HG3A (HA3MY)	3,977,508	OH9FTW	2	OUSA (YT2T)	1,492,092	D08N	30,797,352
*EA7RU	2,360,484	*S53F	3,745,168	1.8 MHz		7 MHz		9A7A	25,747,659
*CT1EVE	602,948	*DM9K (DL20BF)	2,867,904	R7NP	30,590	S51CK	2,367,513	MULTI-OPERATOR TWO-TRANSMITTER	
*RW4WA	444,652	*G3VAO	1,969,692	R44FWA	9,880	ES2TI	1,571,119	DR1A	63,397,890
14 MHz		28 MHz		ROOKIE ALL BAND		3.7 MHz		OT5A	31,900,698
*YU7ZEX	704,600	*IT9BUN	166,618	*UD3D (RN3DNM)	1,613,294	US2YW	1,958,076	HG2011N	31,347,558
I2A2AD	569,280	*IT9ACN	138,097	DL6ER	1,102,362	9A8M (9A7DM)	1,466,160	L29M	30,426,851
*UA1AQA	550,732	*F4FDA	68,586	*M0GVZ	978,510	EUI1A	1,398,984	LY7A	19,088,582
7 MHz		21 MHz		*OH3FOG	634,476	1.8 MHz		MULTI-OPERATOR SINGLE TRANSMITTER	
*DL2VK	1,189,964	*I25EBL	1,771,893	*SN1T (S01RET)	603,809	EA1DVY	24,024	DR1A	63,397,890
*UR7T	972,802	*EI4CF	1,679,330			EA3EIQ	16,020	OT5A	31,900,698
*SM3C (SM5CCT)	637,259	*EF7A (EC7ABV)	1,544,472					HG2011N	31,347,558
								L29M	30,426,851
								LY7A	19,088,582

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three-way race between a European and two Asians. The winner was special call 9A40Y operated by Sasa, 9A3LG. Close behind was H2T (Paris, 5B4XF op) and Levan, 4L4CC. Sasa was able to overcome the points per QSO disadvantage by working more contacts and almost 200 more multipliers than the other two. Alfredo, WP3C, had an excellent score to finish fourth. Perennial 75 meter entrant Steve, W3BGN, returned to the top spot for the USA.

With the high bands rocking, the diehard 160 meter operators did the best with what activity they could find. Fabio, I4FYF, claimed the world trophy. Yuri, K3BU, dealt with line noise and QRN to take the top USA spot as NT1E/8. OG6A and LY2OU battled it out for third with logging accuracy making the difference.

Single-Operator QRP

The contesters who enter WPX SSB running 5 watts or less are a special breed. KP2/NE1RD summed up the magic this way: "I hope I never get so old or jaded that I stop feeling the wonder of working somebody halfway around the world with the power equivalent of a night light!" The world high QRP score was from T15N with Bill, W8QZA, at the controls. Bill moved up from third place last year. Second place went to Randy, ND0C. This is Randy's second consecutive USA win in the QRP all band category. Frank, DL8LR, took the top European spot ahead of Andrzej, SP2DNI.

Scott, NE1RD, once again packed his



Well-known German contestor DL3TD tragically died in a fire at his home only weeks after the contest. Lothar finished his last contest as #8 in the World for Single Op Assisted All Band High Power.

suitcase station off to KP2 for the contest and finished first on 10 meters. Rob, NH6V, borrowed the KH6LC station to win 15 meters and set a new Oceania record. Tadeusz, SP4GFG, made a very nice effort on 40 meters. Gulyas, HA6IAM, used the call HG6C to win on 75 meters.

Single-Operator Assisted

The Assisted All Band High Power category has become super competitive with five continents represented in the world top 10. The winner, with a big lead, was Sergey, UT5UDX, operating from ER4A. Felipe, NP4Z, used his KP3Z club callsign to finish in second place and set a new North American record score. The next three scores were very close. Yuri, RG9A, took third place just ahead of Philippe, DF1LON, operating from LX7I. Rick, KI1G, had the top USA score and almost doubled the existing USA record. ZX2B operated by Wanderly, PY2MNL, put South America in the top 10. Sadly, seventh place finisher Lothar, DL3TD, died tragically in a fire at his home just a few weeks after the contest. His enthusiasm and passion for contesting was well known and will be missed.

The All Band Low Power category was equally competitive, with Alexey, VE2XAA, taking the victory. Alexey became a Silent Key in August. Less than 7000 points separated the next two entries in a race between Hungarian club stations. Karoly, HA4XH, operated from HA3DX, the club station of Paks Nuclear Power Plant, while Istvan, HA3MY, used the Mecsek Radio Klub station HG3A. Karoly moved ahead after the log checking and now owns the European record

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for the category. Alexey, RV9UP, beat Yuri, RT9S, to set a new record score for Asia. Top USA score went to Jere, KT4ZB.

Overlay Categories

The CQ WPX Contest has two overlay categories which act as separate contests within the contest. The Rookie overlay category is for operators who have been licensed for less than three years at the time of the contest. There were 182 entries this year. In his last year of eligibility, Abdalla, JY5CC, won in dramatic fashion with the highest score in the history of the Rookie category. Second place was a race between Robert, KD8MJR, at 6Y1X and Vladimir, RN3DNM, operating

UD3D. Both of them provided welcome multipliers and demonstrated they are fast learners. Another remarkable score was submitted by 15-year-old Sassi, ZL2GQ, who made over 1-million points on 15 meters single band. The top USA Rookie score was made by Jeff, NR7E.

The Tribander/Single-Element (TBSE) overlay category allows stations with similar equipment to compare and compete with one another. The popularity of TBSE keeps growing, with 764 entries this year. Robert, ST2AR, overcame receive problems due to a sticky relay in his transceiver and still dominated the category. Being in a rare country with direct propagation to Europe has its advantages! The second highest overall

score was by Will, N8BO, operating single band 15 meters as K6ND/1. Close behind was a group of all-band scores led by LR4E with Jorge, LW4EU, at the controls. Vitomir, S56M, turned in the top European score from E74HH. KR4Z operated by Paul, N4PN, was the top USA scorer all band.

On low power TBSE, it was 8P3A, 3V8SS, and VE2XAA who led the pack. Cristobal, EA7RU, and Brian, C4Z, had a very close race on 15 meters.

Multi-Operator

There were 241 entries in the Multi-Operator Single Transmitter category. While many big stations complain about the band-change rule, it has increased the overall popularity of the category and set up some very spirited competition. The winning team was 3V1A operated by YT1AD, YT3M, YT3W, and S56A. The TM6M operating team of F1AKK, F4DXW, and F8DBF made over 6000 contacts on their way to an impressive second place finish and a new European record. PY2NDX, PY2YU, and PY2ZEA pushed PS2T to third place. P33W from Cyprus represented the fourth continent in the top four scores due to a fine job by 5B4AIE, RA6LBS, and RA3AUU.

The most exciting battle of the weekend was the northern Africa Multi-Two shootout among EB8AH, 5D5A, and D4C. Each station made over 10,000 contacts! Each had about 1700 prefixes. In the end, it was the six operators at EB8AH in the Canary Islands who captured the win with the highest score in the history of the contest at 68-million points. Second place was 5D5A from Morocco with a three-operator team that moved up a place due to an extremely accurate log. The three ops at D4C in Capes Verde made the most contacts, but fell to third. Not much sleep at 5D5A or D4C in order to do full 48 hour efforts in Multi-Two with only three operators!

It was a photo finish between PJ2T and PW7T for the South America Multi-Two honors. PJ2T ended up winning by 30K points on a total score of 37 million (that's only 0.08%! Just one more multiplier would have made the difference. Down under, the team at VK4KW increased the Oceania record by 30%. The top USA score was by KD4D/3 in Maryland.

The Multi-Multi category was won by European powerhouse DR1A. In addition to setting an all-time prefix record, they raised the European record from 47-million to 63-million points! The ten operators from the CT3 Madeira Contest Team pushed CR3A to second place. The boys at LP1H set a goal of 45-million points and made it! The top USA Multi-Multi was a very enthusiastic crew at WX3B.

Final Thoughts

The WPX SSB Contest occurred less than three weeks after the Japanese tsunami disaster. There were many comments in the logs expressing sympathy and hope for all in the affected areas of Japan. We had 13 logs from JA7 and hope we will see more in the future as the area recovers.

CQ WW WPX SSB CONTEST ALL-TIME RECORDS

The contest is held each year on the last full weekend of March. The All-Time Records will be updated and published annually. Data following the calls: year of operation, total score, and number of prefix multipliers.

WORLD RECORD HOLDERS

Single Operator		
1.8	CN2R('07)	1,613,955 399
3.5	CN2R('06)	11,849,076 894
7.0	CN2R('05)	14,724,696 931
14	CN2R('08)	15,778,840 1199
21	CN2R('11)	20,704,164 1443
28	D44AC('02)	15,707,401 1123
AB	CN2R('10)	27,059,084 1373
QRP/p	HC8A('94)	7,520,562 714
Assisted	CQ3L('10)	17,479,764 1206

U.S.A. RECORD HOLDERS

Single Operator		
1.8	K1ZM('95)	327,712 308
3.5	K1UO('10)	2,161,782 602
7.0	WU3A/1('11)	4,731,424 796
14	KQ2M('09)	7,034,082 1082
21	KQ2M/1('11)	9,591,670 1210
28	NY4A('00)	6,006,573 877
AB	K1LZ('11)	15,921,388 1246
QRP/p	KR2Q('00)	2,688,158 649
Assisted	K1IG('11)	13,075,616 1268

Multi-Operator Single Transmitter		
5D5A('10)		36,669,952 1532

Multi-Operator Single Transmitter		
AK1W('11)		16,567,248 1343

Multi-Operator Two Transmitter		
EB8AH('11)		68,072,520 1765

Multi-Operator Two Transmitter		
K1LZ('10)		30,393,480 1560

Multi-Operator Multi-Transmitter		
EA8AH('10)		66,077,858 1665

Multi-Operator Multi-Transmitter		
KM3T('00)		29,338,460 1355

QRPp RECORD

HC8A('94)		7,520,562
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WPX (Prefix) RECORD

DR1A('11)		1909
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CONTINENTAL RECORD HOLDERS

AFRICA		
1.8	CN2R('07)	1,613,955 399
3.5	CN2R('06)	11,849,076 894
7.0	CN2R('05)	14,724,696 931
14	CN2R('08)	15,778,840 1199
21	CN2R('11)	20,704,164 1443
28	D44AC('02)	15,707,401 1123
AB	CN2R('10)	27,059,084 1373

7.0	ZL3A('08)	8,200,800 816
14	KH6ND('03)	6,493,727 887
21	AH7DX('00)	7,645,990 890
28	TX0DX('00)	12,049,422 847
AB	KH7X('11)	20,676,524 1244

ASIA		
1.8	*YM0T('05)	486,846 222
3.5	H2T('10)	3,067,296 534
7.0	5B/KC2TIZ('10)	6,761,872 754
14	P33W('10)	8,004,130 1030
21	JA6GCE('11)	7,055,664 996
28	H22H('00)	9,092,146 931
AB	5B4AI('09)	17,320,771 1093

SOUTH AMERICA		
1.8	HK1KYR('10)	44,814 77
3.5	P40A('96)	1,715,076 426
7.0	HK1T('11)	11,997,104 952
14	HK1X('11)	13,783,532 1259
21	ZX5J('10)	16,746,977 1369
28	ZX5J('99)	14,405,820 1095
AB	HC8A('01)	25,180,199 1199

MULTI-OPERATOR SINGLE TRANSMITTER

AF	5D5A('10)	36,669,952 1532
AS	5B/AJ2O('05)	28,966,272 1252
EU	TM6M('11)	28,016,921 1541
NA	VP2EC('92)	24,409,580 1115
OC	T33RD('99)	17,778,372 998
SA	HC8A('93)	32,502,677 1107

MULTI-OPERATOR TWO TRANSMITTER

AF	EB8AH('11)	68,072,520 1765
AS	A61AJ('04)	30,157,650 1255
EU	OL4A('10)	33,393,180 1590
NA	K1LZ('10)	30,393,480 15660
OC	VK4KW('11)	26,528,482 1369
SA	HC8GR('10)	52,450,389 1497

MULTI-OPERATOR MULTI-TRANSMITTER

AF	EB8AH('10)	66,077,858 1665
AS	P3A('00)	53,554,592 1456
EU	DR1A('11)	63,397,890 1909
NA	WL7E('00)	42,013,215 1395
OC	KH7R('02)	32,826,032 1304
SA	HC8N('03)	60,703,452 1476

EUROPE		
1.8	SN3R('07)	835,884 434
3.5	EI7M('10)	3,527,075 731
7.0	EI7M('11)	10,787,690 1054
14	TM77M('10)	8,271,768 1046
21	CS2C('11)	9,479,430 1245
28	GM7V('00)	8,305,756 982
AB	E7DX('11)	20,438,120 1322

NORTH AMERICA		
1.8	VA1A('99)	535,225 271
3.5	ZF1A('08)	2,269,344 462
7.0	T14CF('05)	8,057,479 751
14	KP2A('95)	7,088,976 912
21	VP2EH('11)	14,899,185 1305
28	KP2A('00)	11,385,710 1046
AB	8P5A('10)	24,245,732 1358

OCEANIA		
1.8	KH6ND('07)	26,432 59
3.5	WH7Z('03)	1,208,900 308



The multi-single team of CB3C gave everyone a new multiplier. Roberto, CE3DOH, on the left, Marco, CE3MMT, in the front, and Esteban, XQ7UP, on the right.

In the Multi-Two category, second place went to 5D5A from Morocco with a three-operator team (IK2QEI, N6KT, IK2SGC) that moved up a place due to an extremely accurate log.

Log Checking Honor Roll

There were 2,744,917 total QSOs recorded in the 5,143 logs received for the 2011 edition of the WPX SSB Contest. More than 2 million, or 75%, of these contacts could be cross checked against another log. An incredible 95.5% of the cross-checked QSOs were made without errors. That's rather amazing when you consider all of the QRM, QSB, and other distractions a phone contest inflicts. The average score reduction for all logs was 11.4%—not bad when you consider the frequent double hit of losing a contact and a multiplier.

Everyone who submitted a log to the WPX Contest should have received an e-mail with their log-checking report. The report shows all errors found in the log and how the final score was calculated. The reports also show how others may have miscopied your callsign or exchange. They are a great tool for learning how to improve your operating skills. Send an e-mail to <director@cqwp.com> to request your report.

The most accurate log was from Eero, VE3BVA, who made 380 contacts without any score reductions. Other top golden logs (with QSOs made) include SP4GFG (323), DL7URH (319), N6ORB (297), VR2XLN (254), DL4RAT (220), and AI4UN (211). W2MF did 210 error-free QSOs all on 160 meters! There were 328 logs with no reductions.

There were 916 stations that did not cause any errors in the logs of the stations they worked. The top "golden transmitter" was Takayuki, JR0GUY, with 201 QSOs. Others in this elite group included OH1O (199), SP4LVK (181), K0RC (161), and UU5A (153).

The gold medal of accuracy goes to Enda, EI2II, who managed 141 two-way contacts without a single mistake either transmitted or received. The silver medal goes to Elmer, DU1EG, with 135.

Congratulations to all of the accuracy aces!

There were a number of comments after the contest about over-processed audio, poor-quality signals with wide splatter, excess power, and generally rude operating. Contesting is a sport where we all are sharing the same field. It is poor sportsmanship to pollute the bands with poor signals and ruin the fun for everyone else. For 2012, the WPX Contest Committee will establish a group of monitors to listen to the bands during the contest. The committee will reserve the right not to accept logs from stations that demonstrate poor technical practices or sportsmanship. Fair play and quality signals will attract more people to contesting and provide more contacts for everyone.

It takes a team to compile the results of so many logs. We could not do it without the software development efforts of Ken, K1EA. The 58 paper logs received by mail were converted into Cabrillo format by AE6Y, AL1G, DO4HAM, JY5CC, K1PX, K2DSL, K8PO, KN3A, LY4U, N1XS, UA4FER, and W2JU.

Log-checking help was provided by Jim, W19WI. Thanks to Barry, W5GN, for printing and mailing the more than 1900 certificates that were earned. Doug, K1DG, coordinates the plaque sponsors and distribution.

The 2012 WPX SSB Contest will be held on March 24 and 25. The log deadline has been moved up to April 18. Please read the rules carefully as there are some changes. Rules can be found in the February issue of CQ, on the CQ website <www.cq-amateur-radio.com> (for expanded tables, QRM, and a list of guest operators and ops of multi stations for the 2011 contest, also see the CQ website—ed.), and on the CQ WPX Contest website <www.cqwp.com>. Keep up with the latest news on the CQ WPX Contest by joining our Facebook Fan page (search for wpx). Let's hope for even better conditions in 2012!

73, Randy, K5ZD

(Continued on page 102)

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**2011 WPX SSB RESULTS
SINGLE OPERATOR
NORTH AMERICA**

United States		4088	1246		
K1LZ	A 15,921,388	3526	1085		
AJ11	11,615,760	(OP: KBPO)			
KK1KW	6,869,520	2307	940		
NU10	1,756,516	1067	628		
NN1N	1,304,020	903	577		
AD1DX	1,129,590	879	495		
N1BCL	919,770	775	465		
N1SV	685,616	717	402		
N1S1T	609,033	534	404		
NY1H	466,792	489	332		
AA10	300,030	382	274		
N1KWF	253,236	414	282		
NE1H	220,857	314	273		
K1YSV	200,613	301	233		
AB1BR	139,462	247	206		
K21M	126,690	250	205		
K1VO	68,250	165	150		
K1DG	45,859	136	121		
W1MSN	42,721	133	119		
N1QEH	26,663	104	91		
K1SD	23,793	83	77		
W1CFM	23,736	95	86		
K1PTT	10,797	62	45		
W1CME	4,805	47	35		
WA1OU	880	22	20		
W3EP/1	153,510	344	215		
KQ2M/1	9,591,670	3006	1021		
K6ND/1	6,793,222	2494	1007		
W5WMM/1	1,673,769	1111	629		
KD2HE/1	97,537	211	192		
K1QS	324,720	367	328		
AB1EP	123,768	240	216		
WU3A/1	4,731,424	1463	796		
W1XX	1,114,452	821	459		
K1HAP	34,476	121	102		
K6NDV/1	10,633	50	49		
*N1VN	4,328,401	1925	829		
*NM1C	509,517	496	339		
*NJ1H	400,680	469	318		
*KR1A	323,736	447	282		
*W1CCCE	307,004	419	284		
*N11W	277,552	422	304		
*WA1DR0	194,684	324	239		
*N1MXX0	172,753	283	203		
*K1VU	136,305	273	195		
*KB1REQ	102,942	192	171		
*KB1FRK	98,808	220	184		
*KA1C	64,922	184	143		
*W1P0	58,290	191	145		
*W1TO	53,802	142	122		
*W10Y7ARY	53,144	170	146		
*K1B8M	50,816	148	128		
*KB1TBU	40,182	129	111		
*K1LOG	29,952	108	96		
*K1GN	27,468	96	84		
*N1NN	21,182	99	89		
*KB1P	11,178	72	69		
*KK1X	10,933	70	69		
*W1BP	10,747	65	65		
*W1M1	8,925	58	51		
*W1JR	8,056	56	53		
*KE1CY	5,175	48	45		
*W1BJ	3,686	40	38		
*N1ZN	3,168	34	33		
*N1XU0	2,277	34	33		
*KB1UM0	2,144	30	29		
*N1EM	1,750	20	25		
*W1KU	1,008	26	24		
*K1W1	867	17	17		
*N0AG/1	252	15	14		
*AE1P	6,258	55	42		
*AB1HD	14	3	2		
*N1WRC	50,540	142	133		
*W1K	15,840	58	58		
*KB1HK/1	12,240	84	72		
*N1X1T	6,840	61	45		
*W1WB	2,368	34	32		
KM20	1,265,680	815	520		
W2QR	337,922	406	317		
K2BBQ	295,604	406	268		
K2FJ	234,950	359	254		
K2LE	224,532	302	243		
W0ZY	198,912	282	256		
WB2SH	192,816	351	234		
K2DLS	165,024	291	216		
K3DDV/2	158,152	277	212		
WB2LK	108,528	216	168		
W2CW	105,456	214	169		
W2MC	102,483	217	177		
AF20	66,560	163	130		
K2CL2S	57,456	158	133		
N2ZSM	52,125	146	139		
NV2G	49,664	145	128		
W2ARP	30,438	115	114		
K2HZW	24,104	109	92		
K2CPVM	16,318	86	82		
KAZ1M	95,976	242	172		
K2XA	9,744	67	58		
WB2SN	44	4	4		
N2MM	2,346,333	1294	733		
N2EK	608,697	660	423		
N2NT	25,024	103	92		
KAZ2B	2,052	27	27		
W2WB	128	109	109		
*W2AJQ	1,182,363	869	497		
*WN2K	696,784	723	428		
*KJ2M	681,720	576	390		
*N2TJ	630,540	621	372		
*K2DSL	466,745	554	337		
*WA2MCR	429,135	489	335		
*W1JF	401,835	436	301		
*W2ML	350,794	418	314		
*AB2CT	317,612	397	271		
*KX2S	312,900	384	298		
*AD2AM	286,878	386	274		
*NA2NY	177,888	287	218		
*K2JMY	174,930	305	238		
*K2RET	134,469	257	201		
*W2VU	129,294	254	198		
*KC2WUF	125,970	251	194		
*N2MTG	107,606	245	173		
*WA2FBN	105,225	227	183		
*KC2QJB	89,428	202	158		
*N2UJZ	58,800	160	140		
*KD2MU	46,494	144	126		
*W2FU	45,540	137	115		
*WA2NLL	43,400	138	124		
*W2JX	39,663	123	113		
*N2KPS	30,193	118	109		
*AE2NG	27,234	119	102		
*KC2SNW	25,284	107	98		
*N2GXJ	23,490	104	90		
*W2MRD	19,662	90	87		
*WB2ZEX	17,632	88	76		
*KC2WLO	13,860	70	63		
*N1JZQ/2	10,863	71	67		
*AB2IO	9,454	73	58		
*AD2TM	8,058	55	51		
*K2DV	7,722	58	54		
*KC2ZVM	7,065	49	45		
*KC2TFR	6,696	57	54		
*WY1H/2	5,123	50	47		
*W2JX/2	3,384	38	33		
*WA2CLP	2,944	35	32		
*KC2JRO	2,294	31	31		
*W2QAC	1,890	30	30		
*K2JF	1,012	24	23		
*KA2IBN	1,020	15	15		
*K2DL	207	9	9		
*K2AMP	144	9	9		
*W2JX/2	9	3	3		
*N2SLO	7,155	61	53		
*K2ZXY	65	5	5		
*W2AW	1,313,786	879	601		
*N2DD	44,520	140	140		
*N2GA	40,680	126	113		
*N2JUS	22,968	93	88		
*N2JLH	10,919	69	67		
*AA2DS	9,234	57	57		
*K2PAL	7,208	54	53		
*KC2OSR	2,747	41	41		
*N2RHL	2,660	35	35		
*W2AAB	61,138	171	154		
*K2ZFBV	5,886	54	54		
*W2NTV	4,440	42	40		
*N2PQJ	128	3	3		
*K2SZ	45,368	110	107		
*W2LP	32,980	106	97		
KC3R	10,821,048	3290	1148		
KB3UHN	4,124,224	1770	832		
NB3SR	3,724,060	1642	790		
*K3MMD	3,256,878	1669	813		
N3UM	1,244,925	811	503		
KW3A	575,232	628	384		
WB3RZ	293,524	375	308		
WR3H	273,020	340	292		
W3GNQ	210,239	247	193		
K3MRF	112,326	238	198		
K3MRG	89,318	190	142		
KA3HED	66,178	199	163		
K3RMB	50,419	164	127		
AF31	22,892	107	97		
N3XL	20,640	91	80		
W3FTV	20,160	100	84		
W6ANX/1	10,788	64	62		
*KB3L1X	1,211,266	840	482		
*K3JHN	756,903	661	399		
*N3DR	393,072	459	304		
*N3DD	197,184	352	237		
*KK3W/3	163,560	322	232		
WB3RPT/3	128,554	248	199		
*K3WV	121,444	245	194		
*K2L9S/3	112,326	238	198		
*K3STL	116,688	254	187		
*WB3BSA	109,552	203	167		
*K3FS	47,125	139	125		
*N3RN	42,525	130	105		
*N8NA/3	42,435	132	117		
*K3OT	38,025	133	115		
*N3CH	33,488	125	107		
*N3CHX	31,672	131	107		
*WA3EQJ	30,740	124	106		
*K3SI	12,012	76	66		
*N3LT	10,985	67	65		
*KN3A	6,958	49	49		
*KB3OZA	5,568	49	48		
*AK3S	5,264	49	47		
*KB3RKM	4,173	42	39		
*W3RLO	2,640	31	30		
*WB3IGR	55	5	5		
*N3CR	20,992	99	82		
*W3RC	20,456	148	136		
*N0QU	25,641	103	99		
*WAPV/3	11,256	69	67		
*K3WV	30	2	2		
*N3OEH	308	12	11		
*K3DCW	42,160	1			

*K7ACZ	195,254	291	233	*N8PJ	6,336	52	48	*K0HNC	76,304	193	152	VE6TL	A	2,545,176	1367	692	Rep. of Congo	28	1,718,528	1086	548	(OP: CX2CC)	
*W0PAM/7	191,400	369	232	*K8FO	5,125	48	41	*N0NM	57,486	172	143	*VA6UK	A	219,098	316	253	South Africa	A	1,721,081	1066	563		
*N7MZW	189,917	251	210	*N8PVT	7	7	7	*K0AD	56,734	170	146	*VE6SQ	A	139,279	301	197	ZS6BRZ	A	1,302,840	1064	504	(OP: ZS10IN)	
*K7TR	165,206	317	226	*KN8D	6,579	52	51	*KR7C/0	56,457	191	153	VA7ST	A	1,439,296	896	523	ZS9Z	A	1,721,081	1066	563		
*AA7DK	142,776	287	216	*N8WAV	82,593	190	189	*K0RC	56,211	161	123	VE7AX	A	193,428	290	243	*ZS6RF	A	1,721,081	1066	563		
*N7VS	123,264	268	192	*K8BMYC	10,168	63	62	*N0ZF	47,302	156	134	VE7NSR	A	16,600	94	83	*ZS1JY	A	5,324	44	44		
*KF7GN	107,712	264	187	*K8SM	87,696	259	168	*K0DZZ	41,418	136	118	VA7BS	A	8,178	64	58	*ZS2AJ	A	2,540	98	90		
*KF7GYE	106,326	234	179	*N8RU	51,876	169	131	*K0VX	33,210	150	123	VE7XJ	A	931,095	748	495	*ZS1JY	A	5,324	44	44		
*KE7UV	105,185	233	193	*N8BV	7,791	49	49	*K0LAF	28,288	123	104	VE7XJ	A	781,270	670	421	Sudan	A	1,793,690	3702	1105	(OP: S53R)	
*K67V	101,904	234	193	W90P	A	409,118	467	337	*K0DZ	24,192	121	108	VE7XJ	A	931,095	748	495	Tunisia	A	6,999,180	2313	930	(OP: KF5EY)
*K7ZG	94,244	204	144	*N9QKW	343,872	440	288	*N8RR/0	22,110	100	80	*VE7BC	A	1,439,296	896	523	Armenia	A	1,721,081	1066	563		
*K87KYK	91,002	247	174	W90P	A	409,118	467	337	*N8R0	21,894	100	80	*VE7C	A	1,439,296	896	523	Asia	A	1,721,081	1066	563	
*W7XE	80,384	176	157	K9GN	203,708	263	254	*K0CUT	21,672	97	86	*VE7N	A	9,966	52	51	Costa Rica	A	597,888	823	346		
*AD7MT	80,275	235	169	N9JZN	148,176	281	196	*K0KOR	18,290	98	86	*VE7RSV	A	103,578	218	183	Cuba	A	172,380	254	195		
*N7VEA	77,588	205	163	NT9F	121,632	265	181	*K0DHL	18,746	113	91	*VE7DAQ	A	338	13	13	Dominica	A	161,204	313	211		
*K67H	63,899	203	157	K89KEG	100,464	243	182	*K0MPH	18,450	89	82	YV1E1	A	749,480	850	410	Dominican Republic	A	168,210	349	210		
*K6ADZ/7	43,824	171	132	N9OK	88,236	217	172	*K0F0	17,544	92	86	*VE8ER	A	478,764	483	372	Guatemala	A	775,280	721	440		
*K6KR/7	41,151	145	129	K7Z9	79,050	189	155	*N0JQ	16,766	92	83	*VE8D	A	560	14	14	Honduras	A	1,318,214	927	566		
*W7YVK	25,996	119	97	K9WMT	68,975	214	155	*N0AXZ	16,766	92	83	*J73WA	A	161,204	313	211	Jamaica	A	1,629,996	1373	492		
*AD7UP	25,270	107	95	K9SE	46,112	149	131	*K0RJV	12,144	82	69	H8PJP	A	168,210	349	210	Martinique	A	10,088,316	3105	1029		
*WA7DUH	25,070	144	109	W3HDH/9	44,506	137	119	*K0FYI	10,440	61	60	*H8TJ	A	7,886,235	2751	1005	Puerto Rico	A	35,568	149	104		
*K7SWL	24,934	98	91	N9AUS	34,965	123	111	*N0ANP	5,850	51	50	*H8EP	A	4,020,420	640	285	Romania	A	2,250,488	1585	811		
*N7OMS	23,716	117	98	(OP: N9GH)	5,850	51	50	*N0UJ	5,850	51	50	*H8C	A	572,648	827	376	Russia	A	17,252,196	3078	1222		
*W7FD	22,560	116	94	K9OC	34,299	115	111	*W9AGMT/0	4,687	49	43	*H8FVA	A	888,914	540	358	Asia	A	1,721,081	1066	563		
*K7JFF	19,608	91	76	K9EQO	33,063	119	107	*K0DLH	4,440	41	40	H8PJP	A	168,210	349	210	Costa Rica	A	597,888	823	346		
*W7JG	18,292	103	88	N9R0D	23,588	108	103	*N0DN	4,440	41	40	*H8TJ	A	7,886,235	2751	1005	Cuba	A	172,380	254	195		
*K6PUP/7	16,576	83	74	K9KZ	21,832	92	82	*W9RU	4,440	41	40	*H8EP	A	4,020,420	640	285	Honduras	A	1,318,214	927	566		
*W7UB	15,687	98	83	WE9V	654,164	643	427	*K0HAX	1,891	33	31	*H8C	A	572,648	827	376	Jamaica	A	1,629,996	1373	492		
*A9D/0	13,532	73	68	W9GL	112,048	215	188	*K0NEB	1,872	26	26	*H8FVA	A	888,914	540	358	Martinique	A	10,088,316	3105	1029		
*N7YT	13,148	90	76	K9JIG	7,007	50	49	*K0ANS	1,764	30	28	H8PJP	A	168,210	349	210	Puerto Rico	A	35,568	149	104		
*N7WA	12,220	68	65	K9XD9	310,170	700	294	*K0BOW	1,647	29	27	*H8EP	A	4,020,420	640	285	Romania	A	2,250,488	1585	811		
*K7DHS	9,344	74	64	K9SH	116,800	288	200	*K0DOE	1,350	29	27	*H8C	A	572,648	827	376	Russia	A	17,252,196	3078	1222		
*K7FYO	7,473	63	53	*K290	1,976,631	1454	653	*K0DKG	1,350	29	27	*H8FVA	A	888,914	540	358	Asia	A	1,721,081	1066	563		
*K7RYK	7,390	60	67	*K9SK	1,962,765	1151	498	*K0DKJ	1,350	29	27	H8PJP	A	168,210	349	210	Costa Rica	A	597,888	823	346		
*K7UOL	7,260	64	65	(OP: N4TZ)	1,962,765	1151	498	*K0DILZ	1,350	29	27	*H8EP	A	4,020,420	640	285	Honduras	A	1,318,214	927	566		
*WA7SP	6,118	50	46	*W9TC	553,320	569	348	*K0R0R	1,474	23	22	H8PJP	A	168,210	349	210	Jamaica	A	1,629,996	1373	492		
*W7W0F	5,967	54	51	*K9JE	529,515	543	369	*W0ETT	167,948	287	242	*H8TJ	A	7,886,235	2751	1005	Martinique	A	10,088,316	3105	1029		
*W7J	5,418	49	45	*N9LZE	379,138	519	326	*K0S0A	4,982	45	41	*H8EP	A	4,020,420	640	285	Puerto Rico	A	35,568	149	104		
*N7NSL	5,040	47	42	*A89KZ	189,290	319	230	*K0WHV	85,932	192	186	*H8C	A	572,648	827	376	Romania	A	2,250,488	1585	811		
*K7JKM	4,656	52	48	*N9LB	178,528	307	224	*K0CYH	10,439	77	73	*H8EP	A	4,020,420	640	285	Russia	A	17,252,196	3078	1222		
*AD7JK	3,053	46	43	*K9PMV	132,778	245	197	*W0GAF	10,153	77	71	*H8C	A	572,648	827	376	Asia	A	1,721,081	1066	563		
*K7MXX	2,812	47	43	*K9Z9	132,459	306	201	*K0DIO	10,153	77	71	*H8FVA	A	888,914	540	358	Costa Rica	A	597,888	823	346		
*AE7Z	1,945	20	19	*K9Q0G	116,662	241	182	*AC0PB	7	260	10	10	H8PJP	A	168,210	349	210	Cuba	A	172,380	254	195	
*K87ZVT	1,680	28	28	*N9CJL	103,974	241	186	KL1V	A	1,777,104	1253	602	VE6TL	A	2,545,176	1367	692	Honduras	A	1,318,214	927	566	
*K7MMP	1,512	30	24	*A9IK	88,528	242	176	AL1G	A	1,777,104	1253	602	VE7AX	A	193,428	290	243	Jamaica	A	1,629,996	1373	492	
*K7MNP	840	20	20	*K8YGD	79,360	199	160	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Jamaica	A	1,629,996	1373	492	
*K7ULS	20,169	94	83	*K8RDS	70,499	179	143	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Martinique	A	10,088,316	3105	1029	
*K7DX	1,518	24	23	*N9YH	67,466	195	158	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Puerto Rico	A	35,568	149	104	
*W6ABM/7	1,350	24	23	*K9KAC	59,427	185	169	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Romania	A	2,250,488	1585	811	
*W7UPL	337,780	237	187	*K9JAC	59,427	185	169	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Russia	A	17,252,196	3078	1222	
*W6EZ/7	35,941	138	127	*W9BLR	36,408	135	111	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	South Africa	A	1,721,081	1066	563	
*W9B/7	22,692	100	93	*N9NA	30,800	124	110	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Tunisia	A	6,999,180	2313	930	
*AD7J	385,170	418	377	*K9D0A	30,747	141	111	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Armenia	A	1,721,081	1066	563	
				*K9STV	30,709	115	107	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Asia	A	1,721,081	1066	563	
				*W9HT	28,288	134	104	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Costa Rica	A	597,888	823	346	
*N7BK	382,104	438	366	*K9JN	25,575	109	93	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Cuba	A	172,380	254	195	
*K6LON/7	77,106	205	181	*W0CB	24,840	102	90	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Honduras	A	1,318,214	927	566	
*W7ASF	25,560	97	90	*W0CB	24,840	102	90	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Jamaica	A	1,629,996	1373	492	
*K7SR	22,760	62	56	*K9JN	25,575	109	93	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Martinique	A	10,088,316	3105	1029	
*K6LUJ/7	5,130	60	54	*K9QHL	3,977	42	41	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Puerto Rico	A	35,568	149	104	
*WX7B	798	21	21	*K9ELU	3,510	39	39	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Romania	A	2,250,488	1585	811	
*WA7NL	7	127,920	286	195	*K9TCD	2,937	34	33	WL70	A	667,756	505	278	VE7NSR	A	16,600	94	83	Russia	A	1		

*RUBUA	5,220	45	45	JA1IXY	30,186	92	86	*JH8CLC/7	3	1	1	*OEGU	281,019	420	331	OK1FPPS	28	95,116	243	172			
*RWOCV	2,508	34	33	JPI1EY	19,656	86	78	*JA7HYS	7	7,216	41	41	*OEBVMQ	50,160	(OP: OEBHLP)	1823	862	OK1XC	21	505,160	539	365	
TA2ZAF	28	216	76	JA1YSU	10,812	14	14	J8DIVD	A	152,234	238	206	*OED5	28	22,320	(OP: OEDUKL)	102	80	OK1DLZ	14	4,926,056	(OP: OK2PVF)	386
*TC3C	A	2,759,445	1319	JH1EAF	122,521	276	161	J8JESJ	A	45,496	139	121	CR2T	28	866,500	(OP: CU2AF)	940	500	OK1NG	3.7	35,768	144	136
*TAH1Z7	258,664	310	248	JH1FNU	326,200	430	280	*JA8J1	A	94,696	203	178	*CJ5CQ	A	6,138	63	62	OL9W	A	1,422,808	(OP: OK1D5Z)	1056	
*TASX	148,365	239	189	*JH1GLE	268,324	353	259	*JL8MBF	50,808	149	116	*CJ3VF	A	4,44	4	4	*OK6Y	A	5,621,867	(OP: OK2PZT)	1056		
*TATE	5,476	38	27	*JH1GCE	137,632	273	184	*JEBKXX	32,256	115	96	*CJ5CQ	A	6,138	63	62	*OK2BEN	451,867	592	391			
*TC6IK	34,299	128	103	*JH1AZR	49,068	156	104	JA9CCG	21	168,032	263	236	*CJ5CQ	A	6,138	63	62	*OK2FK	466,050	539	365		
*TC2T	293,376	405	256	*JH1KWC	45,711	134	104	*JA9EJG	A	2,904	35	33	*EA60M	28	7,296	52	48	*OK1HEK	423,696	561	364		
*TA4AU	30,199	107	101	*JA1DDZ	40,115	126	113	*JH9VJU	21	3,500	38	35	*EU1AZ	A	3,623,136	1833	876	*OK1BA	371,640	502	380		
*TB2MYE	5,040	30	30	*JA1GVG	37,130	114	94	JA0JHA	A	13,744,296	3876	1182	EUST	A	3,491,962	(OP: EW2A)	1823	862	*OK1MKU	363,286	430	337	
*TA2KN	150	5	5	*JA1JHU	33,174	122	97	JADOCY	A	189,216	307	219	EV25D	2,376,192	(OP: EW80D)	1447	768	*OK2BRX	289,920	414	302		
Azerbaijan	148,400	248	212	*JA1ATM	26,809	120	83	JR0GUY	21	92,400	201	176	EU4AA	466,250	566	373	*OK1LUC	176,880	354	264			
*AK8M	28	10,492	75	*JA1FO	22,560	95	57	JY5CC	A	8,357,766	2591	866	EU4DX	320,105	473	365	*OK1BLU	147,159	313	249			
*AK6FO	14	351,430	409	*JG1PL	9,177	65	50	*XU7KOH	A	86,625	276	175	EU8AA	83,961	209	171	*OK2PCL	140,504	259	182			
Bhutan	50,050	266	130	*JG1SWW	5,250	56	50	*XU7FMZ	21	407,370	605	370	EU8AD	83,961	209	171	*OK1MJK	65,856	187	147			
China	1,083,360	884	488	*JG1GCO	3,627	42	39	UP0L	A	16,480,550	3771	1175	EU8AE	42,360	144	120	*OK1MOC	60,621	198	167			
BD40H	258,520	478	281	*JA1LZB	3,220	35	35	UP2L	15,886,534	(OP: UN9L7)	3884	207	EU8AF	42,360	144	120	*OL2	48,657	178	147			
BD34E	1,612	32	31	*JA1LW1	1,272	25	24	UP4L	10,621,306	(OP: UN9L7)	2873	1033	EU8AG	42,360	144	120	*OK2UFU	36,156	167	138			
BD40E	1,148	31	28	*JN1ACHT	495	11	11	UP7P	4,105,080	(OP: UN9L7)	1648	756	EU8AH	341,890	629	392	*OK1ZHV	23,968	120	107			
BD5DM	990	23	22	*JH5CHM/1	6,075	58	45	UN6P	32,205	101	95	EU8AI	247,060	70	28	*OK1FCA	15,228	101	81				
BG5DD	70	7	7	*JA1PJG	187,206	291	246	UN6Q	9,424	61	59	EU8AJ	613,408	713	464	*OK2JUN	995	27	27				
B8ASG	28	62,729	230	*JA1BPA	118,170	233	202	UN6R	9,424	61	59	EU8AK	613,408	713	464	*OK1CAI	72	8	8				
BG9BS	21	680	20	*JA1RVC	118,170	233	202	UN6S	9,424	61	59	EU8AL	33,948	181	138	*OK2SW	28	15,665	85	65			
B7M	14	609,368	671	*JA1RYC	52,542	149	139	UN6T	2,247,570	1307	785	EU8AM	37,381	64	61	*OK2BT	21	279,300	371	300			
BH7PAZ	442,378	556	373	*JA1IXV	33,072	116	106	UN6U	2,178,540	1215	684	EU8AN	1,944	29	27	*OK2GX	15,147	269	223				
BH4SYG	6	2	2	*JK1NSR	21,384	96	88	UN6V	460,790	466	355	EU8AO	203,095	350	269	*OK1GLD	63,936	166	148				
*B20CJ/7	124,972	255	199	*JA1TDX	20,520	97	90	UN6W	10,621,306	2873	1033	EU8AP	200	10	10	*OK1MMN	12,460	75	70				
*B20CIC	101,742	250	186	*JA1TBP	13,932	78	76	UN6X	4,105,080	1648	756	EU8AQ	31,725	150	141	*OK2LJ	14	13,680	94	90			
*B20CIS	95,586	234	178	*JA1OHP	10,710	65	63	UN6Y	3,205	101	95	EU8AR	10,710	12	12	*OK1LX	7	513,240	600	390			
*B4LYL	66,452	217	148	*JF1PYJ	9,440	61	59	UN6Z	32,205	101	95	EU8AS	7,240	28	28	*OK2BRS	122,765	248	215				
*BD4RDU	55,998	102	88	*JK1BI	9,424	61	59	UN6A	2,247,570	1307	785	EU8AT	1,484	28	28	*OK2KXA	30,388	110	107				
*BD4YX	55,970	175	145	*JA1JLP	9,322	61	59	UN6B	2,178,540	1215	684	EU8AU	3,948	181	138	*OK7MT	7,884	55	54				
*BD9BU	32,736	163	124	*JN1DNV	8,468	59	58	UN6C	460,790	466	355	EU8AV	7,381	64	61	*OK1HFP	3.7	99,594	255	198			
*BG7NFM	31,860	132	118	*JE1JAC	6,580	52	47	UN6D	10,621,306	2873	1033	EU8AW	1,944	29	27	*OK1KZ	1.8	1,798	31	31			
*BG8AM	24,852	134	100	*JA1DBG	6,500	50	50	UN6E	4,105,080	1648	756	EU8AX	1,944	29	27	Denmark	A	1,029,996	778	578			
*BH4SCF	23,142	107	87	*JH1LDB	5,867	17	17	UN6F	7,293	51	51	EU8AY	310,976	419	344	OZ5EV	494,508	587	406				
*BD2TBJ	23,100	110	100	*JA1KXV	5,32	14	14	UN6G	1,596	28	28	EU8AZ	82,533	218	183	OZ2BK	141,648	291	227				
*BH7PFP	23,056	102	88	*JA1KEW	7,564	66	61	UN6H	612,196	613	386	EU8AA	71,154	203	177	OZ7EA	16,790	81	73				
*BH1ERB	13,680	92	80	*JH1YED	5,20	10	10	UN6I	28,200	112	100	EU8AB	47,558	185	158	OZ1HH	7,020	52	45				
*BG5PN	12,312	81	72	*JE1SPY	15,120	74	60	UN6J	901	18	17	EU8AC	37,000	167	148	OZ8DX	5,850	46	45				
*BG4UJZ	11,160	74	72	*JA2VHO	7,557,172	630	396	UN6K	194,304	289	256	EU8AD	19,491	99	89	SP5N	7,008	50	46				
*BD4RQ	8,236	64	58	*JA2BNN	470,854	539	311	UN6L	143,000	252	220	EU8AE	15,100	100	100	OZ3BJ	2,842	14	14				
*BG4GJ	7,080	69	60	*JA2PMT	219,716	331	236	UN6M	13,771	71	71	EU8AF	37,961	137	119	OZ2AN	726,028	735	466				
*BG2VIA	5,593	54	47	*JA2XAX	200,466	289	222	UN6N	13,771	71	71	EU8AG	58,706	176	149	SP00	351,828	502	348				
*BG5LV	5,546	47	47	*JA2CPS	77,792	188	136	UN6O	817	19	19	EU8AH	31,030	116	107	OZ1KVM	194,103	355	273				
*BG8DMY	4,730	63	55	*JA2PFW	74,316	183	132	UN6P	460,790	466	355	EU8AI	12,825	86	75	OU2P	96,957	242	189				
*BD1MWH	4,680	45	40	*JP2MRD	26,074	104	82	UN6Q	118,000	250	200	EU8AJ	2,475	35	33	OZ1LFI	90,528	235	184				
*BA4SCP	4,452	52	42	*JF20HL	9,700	70	50	UN6R	1,661,660	1029	581	EU8AK	2,475	35	33	SP8W	58,220	203	164				
*BD8EM	4,284	60	51	*JQ20UJ	6,144	54	48	UN6S	1,661,660	1029	581	EU8AL	2,475	35	33	OZ5ZH	45,504	182	144				
*BG8DVM	3,444	44	41	*JR2PAU	6,090	45	42	UN6T	1,661,660	1029	581	EU8AM	2,475	35	33	OZ6TL	25,596	124	108				
*BG4JPV	3,430	39	38	*JQ2MHW	11,220	73	66	UN6U	1,661,660	1029	581	EU8AN	2,475	35	33	SP1B	5,800	50	50				
*BD4SK	2,912	34	32	*JQ2MOG	81,627	191	169	UN6V	1,661,660	1029	581	EU8AO	2,475	35	33	OZ7AEI	2,961	52	47				
*BH4SRC	2,664	41	37	*JE2HXL	76,608	180	168	UN6W	1,661,660	1029	581	EU8AP	2,475	35	33	OZ4RT	740	20	20				
*BG4KLA	2,409	37	33	*JA2PFO	24,590	100	93	UN6X	1,661,660	1029	581	EU8AQ	2,475	35	33	OV3X	79,514	188	166				
*BG6ICL	2,139	32	31	*JA2KKA	22,506	100	93	UN6Y	1,661,660	1029	581	EU8AR	2,475	35	33	OZ1XV	35,030	189	155				
*BD3QR	648	19	18	*JF2HJU	6,400	50	50	UN6Z	1,661,660	1029	581	EU8AS	2,475	35	33	OZ2ABE	46,843	161	139				
*BG8BIN	544	18	17	*JR2AAN/2	6,050	52	50	UN6A	1,661,660	1029	581	EU8AT	2,475	35	33	England	10,741,224	3260	1194				
*BH7PRT	315	16	15	*JQ2PHH	4,662	43	42	UN6B	1,661,660	1029	581	EU8AU	2,475	35	33	MOWLF	2,995,190	1593	803				
*BH7OZG	295	160	150	*JQ2GTH	94,120	144	130	UN6C	1,661,660	1029	581	EU8AV	2,475	35	33	G4SJI	211,408	396	292				
*BD8ASG	255,190	408	302	J03DDD	2,976,850	1444	725	UN6D	1,661,660	1029	581	EU8AW	2,475	35	33	M1A0V	147,777	263	227				
*BG8IEU	86,070	229	190	JR3NXC	1,075,482	828	447	UN6E	1,661,660	1029	581	EU8AX	2,475	35	33	2E0CN	115,839	243	211				
*B6GIV	69,888	195	168	JA3EY	88,683	161	123	UN6F	1,661,660	1029	581	EU8AY	2,475	35	33	G7VRK	111,748	232	182				
*BD6JXX	57,904	154	154	JN30NG	30,039	116	93	UN6G	1,661,660	1029	581	EU8AZ	2,475	35	33	GBXJV	105,196	229	182				
*BD5HSV	35,424	123	123	JA3LEZ	24,288	99	88	UN6H	1,661,660	1029	581	EU8AA	2,475	35	33	MOVKY	546	14	14				
*BG4TYQ	33,579	132	117	JH3GCV	30,603	124	101	UN6I	1,661,660	1029	581	EU8AB	2,475	35	33	GA6EV							

RT3T	*	370,880	389	320	DK2AT	*	973,700	891	535	II1H	*	98,800	238	200	S06I	28	2,465	30	29	EA1WX	A	109,200	236	210
RA30A	*	341,448	442	328	HL1PS	*	964,371	755	521	IN1VU	*	80,400	100	100	SPIRKT	21	439,673	416	403	EA1YA	Z	120,560	246	189
*RA30Q	A	156,123	314	249	DK0A	*	858,276	730	332	IR3VW	*	42,265	130	107	SP1NY	*	219,186	329	246	*EA1HLL	Z	274,752	210	918
*RT3LA	*	139,194	274	222	(OP: DL7JAN)					I23DVU	*	38,048	128	116	SNBR	14	4,233,257	2147	931	(OP: EA1HDD)	Z	210,500	252	210
*RU3U	*	114,840	275	220	D120B0	*	850,527	684	459	I26KFK	*	18,798	86	78	S0BN	7	2,304,959	1235	709	(OP: S0BQNY)	Z	28,638	135	111
*RA3RRP	*	105,985	252	205	DL6EZ	*	835,328	751	502	I26KFK	*	18,798	86	78	SP4TKR	*	1,169,049	851	537	EC2DX	A	9,576,729	2914	1181
*RX3VF	*	102,212	221	202	DK6CQ	*	728,160	662	480	I20GYP	*	11,651	66	61	SNXJ	*	1,106,700	841	525	EA2NN	Z	953,568	914	602
*RX3XK	*	63,585	198	157	DF2TT	*	661,164	602	476	I22DII	*	4,312	46	44	S0BIMF	3.7	21,930	115	102	EB2AM	Z	296,450	413	275
*RL3L	*	24,684	133	121	DL10LI	*	653,650	618	425	I25DDM	28	42,390	142	110	SP6AXW	1.8	8,253	65	63	EA2CE	A	109,200	252	210
*UA3RW	*	21,384	99	88	DL1YFK	*	531,846	585	378	I24MJP	*	6,392	49	47	*SP9AOF	A	621,000	544	460	*EA2PJ	Z	14,775	125	123
*RL3FX	*	2,400	40	40	DL5YM	*	509,320	604	412	*W25CML	21	4,239,372	1898	881	*S0BLSG	*	603,809	663	443	EA2PD	Z	22,714	95	82
*RL3FA	*	602	14	14	DF0PWR	*	382,344	524	358	I25CML	*	1,085,812	850	494	*SNIT	*	307,104	489	336	EA2T0	Z	463,942	539	421
*RX3AA	*	65	5	5	(OP: DL6VAO)					I04FA	*	375,224	454	356	(OP: S0BQNY)					EA3WD	Z	22,714	95	82
*RV3A	28	10,920	71	60	DK1AX	*	369,595	516	383	I26EPX	*	292,248	493	328	(OP: IZ4JUE)					EA3WZ	Z	390,080	494	265
*RZ5A	21	178,432	348	272	DP7A	*	312,180	404	330	I25FDJ	*	54,648	148	138	(OP: IZ4JUE)					EA3WC	Z	4,227,038	1541	881
*RK3SWB	14	387,768	497	428	(OP: DL2LYL)					IK0PHY	14	2,721,546	1726	909	(OP: S0BLSG)					EA3T1	Z	14,576	125	123
(OP: RV35FF)					DJ4MZ	*	306,810	389	315	IR2C	14	2,721,546	1726	909	(OP: S0BLSG)					EA3WZ	Z	390,080	494	265
*RX3DBG	*	212,550	380	327	DG4R	*	296,808	392	322	(OP: DL1RIG)					(OP: S0BLSG)					EA3T2	Z	4,227,038	1541	881
*RL3A	1.8	666	18	18	DK5IR	*	290,665	402	305	I26GBH	7	17,280	83	60	*SN7S	*	307,104	489	336	EA3WZ	Z	390,080	494	265
RT4R0	A	6,340,471	2945	1087	DG2NMH	*	204,703	368	277	IR4C	3.7	1,553,035	989	605	*SP1GZF	*	254,569	371	287	EA3GK	A	56,518	186	154
RW4W	*	4,099,788	2232	957	DG3FK	*	145,266	245	213	I25MOQ	*	1,163,674	992	542	*SP10	*	223,015	316	235	(OP: DK7TM)	Z	186,154	166	143
RW4PL	*	3,453,680	1975	920	DM5TI	*	126,672	234	203	I25MOQ	*	1,163,674	992	542	*SP9HZW	*	117,968	240	202	EA3N0	Z	12,300	73	60
RO4F	*	2,731,040	1676	845	DL1NEO	*	115,500	243	210	I25MFO	1.8	545,606	405	309	*SPAZ	*	96,432	194	168	EA3N0	Z	12,300	73	60
UA4LCH	*	693,600	637	425	DL1PT	*	69,874	200	161	I04RA	1.8	545,606	405	309	*SPBKY	*	87,420	197	155	EA3B0	Z	216	9	9
UA4PAN	*	464,350	587	370	DL1YFF	*	53,454	167	151	*1E1S	A	1,107,288	881	474	*SP7CGB	*	41,580	148	126	EA3HA	Z	33,150	107	102
RA4CKC	*	82,584	209	186	DJ20Y	*	47,458	143	122	*IW4EGE	*	772,146	727	466	*SP5BIB	*	3,672	38	34	EA4A	A	947,520	857	560
RW4WZ	*	16,530	95	87	DL8UAA	*	33,517	131	121	*IZ1JLN	*	596,250	616	450	*SP6HE	*	1,944	25	24	EA4ETW	Z	470,119	507	377
UA4WNV	*	12,720	64	60	DL3ZH	*	25,575	106	93	*IZ6NCC	*	349,205	468	331	*S0S1WN	*	108	6	6	EA4EDC	Z	12,600	73	72
UA4WNV	*	1,666	34	34	DM2FDO	*	20,504	90	88	*IZ6NCC	*	349,205	468	331	*S0S1WN	*	108	6	6	EA4WZ	Z	209,948	300	292
RV4CT	*	1,298	23	22	DL5NDX	*	19,350	98	86	*IN3FHE	*	190,242	309	271	(OP: SP1JPG)					EA5KA	A	2,249,245	1337	751
UA4CC	28	8,109	57	51	DL2SWX	*	6,116	48	44	*IZ5HPQ	*	185,420	284	254	*SP3LPG	*	45,696	145	128	EF5K	Z	1,582,199	1550	739
RM4R	14	286	13	13	DJ0JP	*	5,658	44	41	IK3SCB	*	49,725	162	153	*S0B1LN	*	2,370	31	30	EA5J1	Z	303,933	481	353
RA4W	3.7	14,472	72	72	DL13WT	*	4,256	39	38	*IW0EAC	*	24,390	106	90	*S0K1K	*	1,357	23	23	EA5DIT	Z	26,505	98	93
RA4LW	1.8	238,569	392	283	DL90V	*	3,520	46	44	*IZ0HLY	*	14,800	85	80	*SP1KJZ	*	798	19	19	EA5H0	Z	379,626	618	403
*RA4A0	A	1,030,538	860	521	DL6AG	*	2,790	32	30	*IV3RCH	28	25,925	113	85	*S0G6PJ	*	225	9	9	EA5DIT	Z	26,505	98	93
*UB4FAB	*	95,676	235	201	DN2JOM	*	1,066	27	26	*IZ3EBL	21	1,771,893	1087	629	*S0G6PJ	*	225	9	9	EA5H0	Z	379,626	618	403
*R4R5	*	31,440	132	120	DO4DXA	28	11,222	67	62	*IZ3RGN	*	221,676	352	273	*S0P6Z	*	3	1	1	EA5DIT	Z	26,505	98	93
*R4R5C	*	24,300	91	81	DF9ZP	21	4,920,066	2014	942	*IZ3RGN	*	221,676	352	273	*S0P6Z	*	3	1	1	EA5H0	Z	379,626	618	403
*R4R5D	*	7,250	63	58	DH0GDS	28	73,160	187	155	*IZ3RGN	*	221,676	352	273	*S0P6Z	*	3	1	1	EA5DIT	Z	26,505	98	93
*R4K4J	*	300	10	10	DK9NH	3.7	124,821	231	207	*IH3HT	14	38,001	197	159	*S0K1LMY	*	19,729	116	109	EA5DIT	Z	26,505	98	93
*R4ASW	21	229,429	392	313	DL2JUU	1.8	400,365	533	369	(OP: IZ3B0)					(OP: SP9ADU)					EA5DIT	Z	26,505	98	93
*R4ASAT	14	155,367	316	283	*DM9K	A	2,867,904	1486	832	*IR3Z	*	23,500	128	125	*S0G6CU	3.7	286,134	461	309	EA5DIT	Z	26,505	98	93
*R4AY	*	35	7	7	(OP: DL20BF)					*IZ1NIB	7	56,259	167	141	*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
(OP: DL20BF)					*DF2SD	*	1,346,328	967	621	*UA2F	7	33,696	112	104	*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
R66G	A	5,426,615	2642	1021	*DP2AJ	*	1,288,200	993	600	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
RG5U	*	3,610,911	2178	947	*DR15ZBAY	*	355,824	502	336	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
UA6AA	*	221,553	319	239	*DJ6OZ	*	346,115	456	341	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
UA6H0	*	28,086	109	93	*DH0DA	*	278,720	427	335	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
UA6HE	*	11,076	75	72	*DK4WF	*	244,245	359	285	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
RTVL	28	43,670	137	110	*DL1DTL	*	214,090	331	271	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
RTMM	21	532,350	680	455	*DL3ABL	*	199,171	300	259	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
R7HF	*	123,420	358	242	*DL7JRH	*	183,535	319	235	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
UA6AIW	1.8	61,535	190	155	*DLSJAG	*	125,840	293	242	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
*UA6HHE	A	194,266	394	274	*DL5GAC	*	104,082	247	209	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
*RW7M	*	46,728	148	132	*DL5VHC	*	85,371	244	199	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
*RU7A	*	4,142	40	38	*DK0PC	*	82,400	176	167	(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
*RABYJ	*	8	8	8	(OP: DL9EJ)					(OP: DK8NC)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
*UA6LUQ	14	958,850	944	635	*DK03G	*	80,494	176	167	(OP: DL9EJ)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
*UA6GU	*	2,860	45	44	*DL1SVA	*	62,487	178	159	(OP: DL9EJ)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
(OP: DL9EJ)					*DL1DBR	*	57,462	184	157	(OP: DL9EJ)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
European Turkey					*D13WH	*	56,374	154	142	(OP: DL9EJ)					*S0B1PTG	*	336	15	14	EA5DIT	Z	26,505	98	93
TC1D	A	7,560	64	54	*D61ATN	*	47,955	156	139	(OP: DL9EJ)					*S0B1PTG	*	336	15						

