

Results of the 2013 CQ WW RTTY DX Contest

BY ED MUNS,* W0YK



Sunset at the OL7M antenna farm where Jan, OK2ZAW, won Single Op 80 Meters High Power as OL9A.

Operators in 165 countries around the world made over 1.6-million QSOs in the 27th consecutive running of this event. Over 15,500 participants and a record number of 3411 submitted logs provided lots of RTTY activity for everyone to enjoy. Solar conditions were down slightly from 2012, but did not significantly affect operating. All five bands performed well in their openings during the weekend.

9A1A, ES9C, and OH0V each logged 36 zones on 20 meters, the highest number of zones on any band. 9A1A and ES9C tied for the highest total band-zone count of 145. ES9C worked 465 band-countries, far beyond any other participant. P49X captured the most band-QTHs (US states and VE areas), 268.

Sixty-seven new Continental records were set out of a total of 240. Thirteen of the 40 World records were broken. These statistics are down slightly from 2012, but of course records become harder to break as they continue to be lifted! This was the second year for the QRP categories and entries grew from 91 to 129. Being new, these categories are ripe for record setting. Here is a summary of the new records set:

	World		Continent	
	New	Avail.	New	Avail.
SO10	2	6	10	36
SO15	1	6	10	36
SO20	3	6	11	36
SO40	2	6	10	36
SO80	2	6	6	36
SOAB	2	6	13	36
MS		2	3	12
M2		1	2	6
MM	1	1	2	6
Total	13	40	67	240

(Assisted and unassisted categories combined)

Single-Op High Power (558 logs submitted)

Single-Op All Band High Power (409). Oyvind, LB8IB, won with 4.9M. John, K1FWE, took second with 4.7M despite oversleeping Sunday morning and missing some of the peak

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Twelve-year-old Adrian, HE9AKG, hunting multipliers while Mike, DL1II, proudly looks on.

rate on 10 and 15. He reports, though, that Saturday was the most fun he's ever had with a radio (actually TWO radios!). Chris, SN7Q (SP7GIQ), was a close third with 4.6M and then came Terry, AB5K, 4.3M; Jeff W7RN (WK6I), 4.1M; Wanderley, ZZ2T (PY2MNL), 4.0M; Andy, UU7J (UU0JM), 3.9M, EM0I 3.5M; Lee, VE7CC, 3.4M; and Stefan, DL1IAO, 3.2M.

Single-Op 80 Meters High Power (8). Jan, OL9A (OK2ZAW @OL7M), topped the category with 189K.

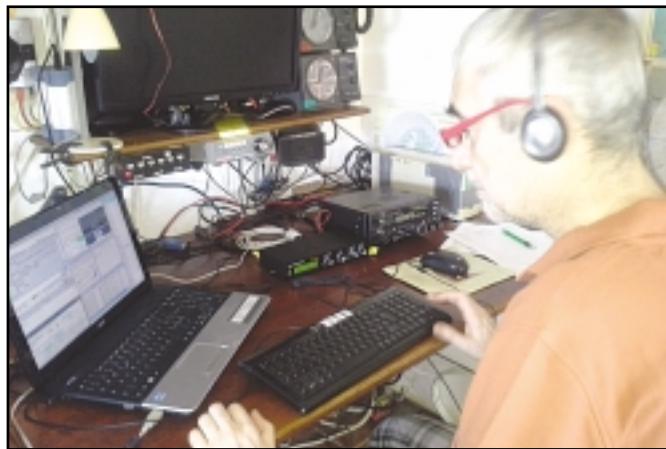
Single-Op 40 Meters High Power (30). Miroslaw, SO4M (SP4MPG), won with 627K, but fell short of the record he set in 2010. Third place Glenn, W0GJ, won North America, and ninth place Serge, UA0SR, set a new Asia record at 132K.

Single-Op 20 Meters High Power (33). Kari, OH0V (OH4KA), took first place with 983K and Gennadiy, UN1L, was second with 808K. Fifth place Jerry, N9AW, won North America with 365K.

Single-Op 15 Meters High Power (47). Carlos, CT3FQ, was first with 889K; Vaho, 4L8A, was second with 861K; and



Susanne, HA0/KD0RYB drove her OM's station (HA0NAR/HG0R) in her favorite mode of RTTY to capture fourth place in 20 Meters Low Power Assisted.



Przemek, SQ9ORQ, won Europe 15 Meters Low Power Assisted with this modest station.

third-place Remigijus, LY8O, set a new Europe record with 826K.

Single-Op 10 Meters High Power (31). Rene, AY2H (LU7HN), set a new World record with 853K, while Bertrand, FG8OJ, took second place with 483K.

Single Operator Low Power (1404 logs submitted)

Single-Op All Band Low Power (1037). Phil, FG5LA, led this most popular category with 2.5M, where nearly a third of the logs are received. Rimas, LY6A, was close behind, also with 2.5M, followed by Kristjan, S50XX, with 2.4M. Don, AA5AU, took fourth with 2.3M and Kazu, MJ5Z (JK3GAD), took fifth with 2.1M.

Single-Op 80 Meters Low Power (17). Gyorgy, HA1WD, won with 59K after setting the first world record in 80-meter QRP in 2012.

Single-Op 40 Meters Low Power (52). Evgeni, 4Z5UN (UU2JM), set a new Asia record with 222K (twice his 2012 score) to win. Bela, HA8BE, was second with 159K.

Single-Op 20 Meters Low Power (113). Juan, YW5T (YV5JBI), won with the second-highest all-time score of 525K and set a new South America record. Vlad, RZ1ZZ, was second with 370K and Nick, UN7JX, was third with 300K.

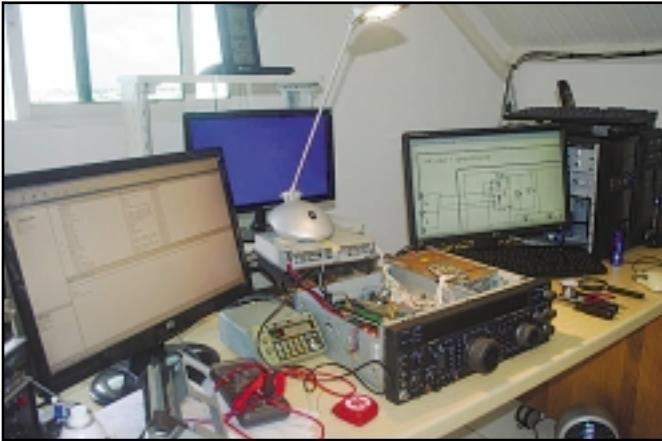
Enrico, 6V7X (home call IK2FIL, top), who operated from 6W7RV (above) since 2010, won Single Op 10 Meters Low Power.

Single-Op 15 Meters Low Power (121). Francisco, EE7Y, scored the third highest all-time with 499K for a new Europe record. Gabry, IT9RGY, and Packo, EA3GLB, were next with 388K and 383K, respectively. Fourth place Yana, YB1AR, set a new Oceania record with 326K.

Single-Op 10 Meters Low Power (64). Enrico, 6V7X (IK2FIL@6W7RV), set a new world record with 649K. He had nearly 29 hours of band opening with tremendous pileups at times. With 3 elements on Europe and 7 on North America, the roar could at least be split in half! Wayne, PJ2/K8LEE, was second with 387K, and third-place Oscar, EA1DR, set a new Europe record with 379K. Danu, YD1GCL, set a new Oceania record with 120K.

Single Operator QRP (99 logs submitted)

Single-Op All Band QRP Power (53). Ymanol, YW2LV (YV5YMA), set an impressive new World record with a score of 2.4M, close to the top Low Power All Band score in this



Phil, FG5LA's FT1000 failed just three days before the contest, but he repaired it successfully and in time to win World Single-Op Low Power All Band.

contest. Rudolf, F5VBT, and Antonn, OK7CM, were next with 606K and 571K, respectively, while Dave, K2YG, was close behind in fourth place with 567K. Sergey, UA0ZS, set a new Asia record with 86K, while Bob, KH6KG, set a new Oceania record with 57K.

Single-Op 80 Meters QRP (4). Dmitru, UT3N, won with 23K, and Shunichiro, JH7IMX, established the Asia record with just 21 points!

Single-Op 40 Meters QRP (7). Gabor, 4O/HG3IPA (HA3JB), set a new world record with 74K, and 5th place Juan, CO2JD, set a new North America record with 32K.

Single-Op 20 Meters QRP (14). Piotr, SP6QKP, topped this field with 65K, and 5th place Ken, VE3HLS, set a new North America record with 24K.

Single-Op 15 Meters QRP (13). Vittorio, IZ2JPN, won with 72K, and 5th place Ted, N5UE, set a new North America record.

Single-Op 10 Meters QRP (8). Abdullah, HZ1BW, set a new Asia record with 129K to win this year, and second place Santiago, LW2EE, set a new South America record with 89K.

Single-Op Assisted High Power (518 logs submitted)

Single-Op Assisted All Band High Power (390). Yuri, RG9A, took top honors with 6.0M from Asia, and if you've wondered how to be loud everywhere and win a worldwide contest from the Urals, take a look at the RG9A profile on <www.cqwwrtty.com>. Second-place Victor, UW1M, set a new Europe record with 5.9M. Third, fourth, and fifth went to Bud, AA3B, Fabi VA2UP, and Alexandr, UA5C, with 5.8M, 5.7M, and 5.2M each.

Single-Op Assisted 80 Meters High Power (10). Dave, 9A5BWW, won with 142K in this his second CQ WW RTTY contest. He lost 4–5 hours just two hours into the contest when "Mr. Murphy was chatting with my software."

Single-Op Assisted 40 Meters High Power (16). Alexander, A65BP (RV6LNA), set a new Asia record with 395K to win, and Petri, OH6R (OH3FM), won Europe for second place with 331K.

Single-Op Assisted 20 Meters High Power (29). Stephane, F4DXW, set a new World record with 1.1M. Alex, DR1D (DL1NX/PY1KS/PY2SEX @DL3KO), and Joel, VE6WQ (@ VE6JY), were second and third with 840K and 781K.

Single-Op Assisted 15 Meters High Power (44). Satoru, 9A5Y (9A3NM), won with 911K and set a new Europe record,

while second-place Norm, 5B4AIF, set a new Asia record with 875K.

Single-Op Assisted 10 Meters High Power (29). Arturo, LV6E (LU6TEB), set a new South America record with 655K to win, and second-place Joel, NH2DX (KG6DX), set a new Oceania record with 420K.

Single-Op Assisted Low Power (445 logs submitted)

Single-Op Assisted All Band Low Power (319). Mark, N2QT, won with 2.8M, while second place Yuri, UN6P, set a new Asia record with 1.9M. Third and fourth places also came from Asia with Yuri, RT9S, and Hani, HZ1HN, scoring 1.6M and 1.5M each. Fifth-place Dieter, DF2SD, won Europe with 1.1M.

Single-Op Assisted 80 Meters Low Power (13). Dunia, EA8MT, set a new World record with 94K, and second place

2013 WW RTTY DX CONTEST TOP SCORES IN VERY ACTIVE ZONES

Zone 3	
W7RN	4,059,872
VE7CC	3,404,394
K6LL7	2,850,570
N6RO	2,024,860
VA7KO	1,923,705
Zone 16	
UW1M	5,875,792
UA5C	5,246,100
UU7J	3,912,740
EM0I	3,482,900
UR7GO	3,138,600
Zone 20	
LZ8E	3,894,030
Y03CZW	1,719,690
LZ6K	1,489,054
Y03APJ	1,473,760
YQ6A	739,505
Zone 25	
JH4UYB	2,853,840
JS3CTQ	2,388,204
JM1XCW	2,109,156
JR4OZR	2,023,584
JA1OVD	1,466,138
<i>*Low Power</i>	
Zone 15	
SN7Q	4,582,795

2013 CQ WW RTTY DX CONTEST TOP SCORES

WORLD		28 MHz		MULTI-OPERATOR TWO-TRANSMITTER		28 MHz		14 MHz		9A5M	
SINGLE OPERATOR		LV6E	654,974	CR3A.....11,759,480		KU5B.....331,010	OHØV.....940,866	G3P.....301,350		G3P.....272,072	
ALL BAND		NH2DX	420,210	P49X.....11,640,496		N2WK.....257,730	YL2CI.....516,132	9A5BWW.....141,588		SP8K.....97,020	
HIGH POWER		TK5MH	336,000	W1UE.....9,616,408		W9OA/9.....153,352	IK4GNJ.....426,351	DL2SAX.....96,252		3.5 MHz	
LB8IB.....4,923,285		21 MHz		ED1R.....9,242,354		N7AT.....644,826	7 MHz	*DF2SD.....1,134,420		*UT8EL.....1,132,785	
K1FWE.....4,691,368		9A5Y	910,845	LX7I.....8,857,935		WA5ZUP.....517,450	SO4M.....627,216	*UT2IO.....993,461		*F4FDA.....863,135	
SN7Q.....4,582,795		5B4AIF	874,825	DF9ZP		K4MM.....454,410	IN3OBR.....364,343	*YL5X.....862,920		*YL5X.....862,920	
AB5K.....4,280,430		28 MHz		ES9C.....16,321,906		14 MHz	3.5 MHz	9A5BWW.....141,588		SP8K.....97,020	
W7RN.....4,059,872		AY2H.....852,609	F4DXW.....1,118,685	HK1NA.....15,262,260		W9ILY.....271,656	OL9A.....189,072	DL2SAX.....96,252		3.5 MHz	
CT3FQ.....889,350		4L8A.....861,052	DR1D.....840,000	9A1A.....14,391,440		K4WW.....157,480	IZ0KBR.....409,836	*DF2SD.....1,134,420		*UT8EL.....1,132,785	
LY8O.....826,166		CE3DNP.....384,652	VE6WQ.....780,764	CR3L.....11,010,000		K6TU.....22,596	HA3HZ.....49,538	*UT2IO.....993,461		*F4FDA.....863,135	
21 MHz		7 MHz		IO9UI.....10,960,464		3.5 MHz	*YL5X.....862,920	*YL5X.....862,920		*YL5X.....862,920	
OHØV.....940,866		A65BP	395,352	UNITED STATES		W8AKS.....8,142	28 MHz	28 MHz		28 MHz	
UN1L.....807,989		OH6R	331,390	SINGLE OPERATOR		KS0AA.....4,272	*S50XX.....2,437,120	*IØUZF.....226,455		*CR5D.....207,966	
YL2CI.....516,132		9A5M	301,350	ALL BAND HIGH POWER		LOW POWER ALL BAND		*MJ5Z.....2,077,146		*EA3EZD.....93,225	
7 MHz		3.5 MHz		K1FWE.....4,691,368		K1FWE.....2,753,184	*N2OT/4.....2,753,184	*EA1DR.....378,898		21 MHz	
SO4M.....627,216		IZ0KBR.....409,836	SP8K.....97,020	AB5K.....4,280,430		W7RNL.....4,059,872	*KC0BMF.....880,270	*Y72JA.....78,812		*SO9ORO.....272,214	
IN3OBR.....364,343		DL2SAX.....96,252	AC0C.....2,870,175	AC0C.....2,870,175		K5ZD/1.....2,312,926	*AB4SF.....855,868	*R5ACQ.....146,560		*OH7MM.....223,080	
3.5 MHz		LOW POWER ALL BAND		*WB40MM.....790,656		*NR2C.....686,562	*LZ2JA.....67,089	*HG5D.....464,326		*LG9R.....433,192	
OL9A.....189,072		*DF2SD.....1,134,420	28 MHz	WR9D.....265,780		*W6HGF/4.....30,800	21 MHz	*UR0HQ.....342,286		*YT2B.....178,176	
IZ5NRF.....64,944		HA3HZ.....49,538	*LW5DW.....348,435	N7US/9.....224,352		*W7PP.....174,423	21 MHz	*YT2B.....178,176		*SV5DKL.....144,304	
LOW POWER ALL BAND		*IØUZF.....226,455	*PX2T.....284,418	W7ZR.....57,783		*K5ND.....158,895	14 MHz	*S56A.....84,672		*S56A.....84,672	
*FG5LA.....2,528,400		*LU7HF.....329,586	N9AW.....365,064	KØJJ/7.....15,640		*W6TK.....96,316	14 MHz	*SP4JCO.....285,948		*SP50XJ.....58,888	
*LY6A.....2,459,972		*R7HF.....328,578	W3RTY.....109,746	WR9D.....265,780		*W7PP.....174,423	7 MHz	*YU1XX.....30,464		*YU1XX.....30,464	
*S50XX.....2,437,120		*SQ9ORO.....272,214	W7PU.....101,530	N9AW.....365,064		*W6TK.....96,316	*RZ1ZZ.....369,684	*IT9RZU.....21,900		*IT9RZU.....21,900	
*AA5AU.....2,262,050		28 MHz		WØGJ.....302,632		*W6TK.....96,316	14 MHz	*HA8BE.....158,880		*SP50XJ.....58,888	
*MJ5Z.....2,077,146		*WØRNU.....423,657	W1TY/2.....128,780	W7RY.....24,282		*W3FIZ.....108,486	7 MHz	*EW8DZ.....120,432		*Y04RDW.....103,880	
28 MHz		14 MHz		N2HR/3.....118,762		*AB9YC.....50,562	3.5 MHz	*HA1WD.....56,181		*OK3C.....713,205	
*6V7X.....649,496		*HC5D.....464,326	N8CL/2.....35,518	N8CL/2.....35,518		*NA5NN.....16,344	*IC8TEM.....45,227	*OK3SSJ.....433,350		*PE2K.....308,898	
*PJ2/K8LEE.....387,228		*LZ9R.....433,192	W7RY.....24,282	W7RY.....24,282		*K6VHF.....5,280	*OK2SAR.....44,605	*YU1LM.....117,344		*YU1LM.....117,344	
*EA1DR.....387,898		7 MHz		NN4K.....1,488		*K7FLI.....35	3.5 MHz	*OK3PNL.....58,374		*OK3PNL.....58,374	
21 MHz		7 MHz		*YT2B.....178,176		QRP ASSISTED ALL BAND		*W6EZ/5.....30,699		28 MHz	
*IØUZF.....226,455		*SV5DKL.....144,304	*W3FIZ.....108,486	*AA5AU.....2,262,050		*N6MA/7.....296,010	*F5VBT.....606,195	Y08DDP.....12,100		*UT2AB.....6,288	
*EA3GLB.....383,368		21 MHz		*N1OF.....1,218,374		*K9YC/6.....52,560	OK7CM.....571,482	F5HRH.....4,644		*F5HRH.....4,644	
14 MHz		3.5 MHz		*WA1FCN/4.....1,052,504		*WAHSB/4.....8,160	OK2SAR.....44,605	*OK2SAR.....44,605		*OK2SAR.....44,605	
*YW5T.....525,483		*EA8MT.....93,670	K1IMI.....877,584	*K1IMI.....877,584		*WØ6X.....78,960	*IØVAA.....19,437	*WØ6X.....78,960		*WØ6X.....78,960	
*RZ1ZZ.....369,684		*SP5OXJ.....58,888	MØDDT.....19,637	*WØ6X.....78,960		*WN1G/4.....75,750	21 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
*UN7JX.....299,880		28 MHz		*WØ6X.....78,960		*WØ6X.....78,960	21 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
7 MHz		14 MHz		*WØ6X.....78,960		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
*4Z5UN.....221,980		QRP ASSISTED ALL BAND		*WØ6X.....78,960		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
*HABBE.....158,880		21 MHz		OK3C.....713,205		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
*EW8DZ.....120,432		21 MHz		OK3SSJ.....433,350		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
3.5 MHz		7 MHz		PE2K.....308,898		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
*HA1WD.....56,181		N6MA/7.....296,010	K1IMI.....877,584	*WØ6X.....78,960		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
*IC8TEM.....45,227		N6MA/7.....296,010	CO2IZ.....151,956	*WØ6X.....78,960		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
*OK2SAR.....44,605		28 MHz		Y08DDP.....12,100		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
QRP ALL BAND		14 MHz		UT2AB.....6,288		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
YW2LV.....2,399,320		21 MHz		F5HRH.....4,644		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
F5VBT.....606,195		21 MHz		IZ3NVR.....63,392		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
OK7CM.....571,482		21 MHz		VE3XD.....40,630		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
K2YG.....566,892		21 MHz		MØDDT.....19,637		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
W6QU.....325,380		21 MHz		*WØ6X.....78,960		*WØ6X.....78,960	14 MHz	*IØVAA.....19,437		*IØVAA.....19,437	
28 MHz		14 MHz									

Jacek, SP5OXJ, set a new Europe record with 59K. North America and Asia records were also set by Glenn, NA5NN (K2FF), and Khalid, A61BK, with 16K and 7K, respectively.

Single-Op Assisted 40 Meters Low Power (12). Bozidar, YT2B, won with 178K, and third-place Pat, W3FIZ, set a new North America record with 108K. Eighth-place Toshi, JE2UFF, set a new Asia record with 41K, and Arifin, YB8JOY, set a new Oceania record with 34K.

Single-Op Assisted 20 Meters Low Power (29). Lali, HG5D (HA8QZ), set a new World record to win with 464K, and third place Hiro, WH0RU (JG7PSJ), set a new Oceania record with 423K. Fourth-place Barry, VE6BMX, set a new



How about using the west tower of the Castle in Ptuj, the oldest town in Slovenia, to support your Yagi? Radioklub Ptuj S50W does just that and will celebrate its 60th anniversary this year.

2013 WW RTTY DX CONTEST CLUB SCORES

UNITED STATES

Club	#Entrants	Score
POTOMAC VALLEY RADIO CLUB	39	37,579,876
YANKEE CLIPPER CONTEST CLUB	28	34,168,438
SOCIETY OF MIDWEST CONTESTERS	32	17,907,492
MINNESOTA WIRELESS ASSN	50	17,750,737
NORTHERN CALIFORNIA CONTEST CLUB	25	17,574,985
FRANKFORD RADIO CLUB	13	13,650,932
NORTH COAST CONTESTERS	7	12,092,954
CTRI CONTEST GROUP	4	11,789,942
WILLAMETTE VALLEY DX CLUB	18	10,825,172
DFW CONTEST GROUP	9	8,984,789
FLORIDA CONTEST GROUP	19	8,686,077
ARIZONA OUTLAWS CONTEST CLUB	22	7,701,971
WESTERN WASHINGTON DX CLUB	11	7,554,143
ALABAMA CONTEST GROUP	16	7,470,730
MOTHER LODE DX/CONTEST CLUB	9	7,360,679
TENNESSEE CONTEST GROUP	13	5,993,625
KANSAS CITY CONTEST CLUB	4	4,608,831
LOUISIANA CONTEST CLUB	5	3,796,160
GRAND MESA CONTESTERS OF COLORADO	7	3,169,684
ROCHESTER (NY) DX ASSN	7	2,848,557
BERGEN ARA	7	2,647,986
SOUTHERN CALIFORNIA CONTEST CLUB	9	2,613,500
ORLEANS COUNTY AMATEUR RADIO CLUB	7	2,457,545
CENTRAL TEXAS DX AND CONTEST CLUB	4	2,087,346
ORDER OF BOILED OWLS OF NEW YORK	9	2,040,979
MISSISSIPPI VALLEY DX/CONTEST CLUB	3	1,843,822
SPokane DX ASSOCIATION	4	1,809,019
CAROLINA SHINE	4	1,740,648
CAROLINA DX ASSOCIATION	7	1,618,761
SOUTH EAST CONTEST CLUB	7	1,460,986
BRISTOL (TN/VA) ARC	5	929,276
HUDSON VALLEY CONTESTERS AND DXERS	3	717,907
ALLEGHENY VALLEY RADIO ASSOCIATION	3	657,330
NIAGARA FRONTIER RADIOSPORT	5	434,295
METRO DX CLUB	4	428,315
KANSAS CITY DX CLUB	3	224,539
MAD RIVER RADIO CLUB	3	184,206
599 DX ASSOCIATION	4	125,910

DX

BAVARIAN CONTEST CLUB	104	68,054,216
RHEIN RUHR DX ASSOCIATION	58	61,399,740
UKRAINIAN CONTEST CLUB	31	35,186,845
CONTEST GROUP DU QUEBEC	11	17,359,908
CROATIAN CONTEST CLUB	16	17,171,626
CONTEST CLUB ONTARIO	32	16,779,771
BLACK SEA CONTEST CLUB	26	15,158,333
CONTEST CLUB FINLAND	15	14,407,393
ORCA DX AND CONTEST CLUB	7	11,885,729
ARAUCARIA DX GROUP	14	10,967,933
SOUTH URAL CONTEST CLUB	5	9,665,486
RADIO CLUB HENARES	4	9,510,742
LU CONTEST GROUP	18	9,367,640
SP DX CLUB	22	9,306,848
LA CONTEST CLUB	4	8,921,430
HA-DX-CLUB	6	6,075,536
WORLD WIDE YOUNG CONTESTERS	9	6,074,153
LATVIAN CONTEST CLUB	11	5,446,920
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB	5	4,914,242
DL-DX RTTY CONTEST GROUP	7	4,647,787
599 CONTEST CLUB	7	4,355,662
CLIPPERTON DX CLUB	3	4,169,291
SAUDI CONTEST GROUP	5	4,161,799
SLOVENIA CONTEST CLUB	11	4,054,113
MARITIME CONTEST CLUB	7	3,956,022
RTTY CONTESTERS OF JAPAN	13	3,685,067
BELARUS CONTEST CLUB	9	3,547,574
RUSSIAN CONTEST CLUB	12	2,871,087
KRIVBASS	6	2,743,405
YO DX CLUB	7	2,505,642
GRIMSBY AMATEUR RADIO SOCIETY	5	2,408,228
URAL CONTEST GROUP	6	2,199,931
ARCK	4	2,179,847
CSTA BUCURESTI	3	1,985,240
ALRS ST PETERSBURG	4	1,866,378
YB LAND DX CLUB	9	1,835,605
CONTEST CLUB SERBIA	12	1,637,530
DANISH DX GROUP	5	1,521,523
VK CONTEST CLUB	4	1,453,968
CHILTERN DX CLUB	5	1,363,347
DONBASS CONTEST CLUB	7	1,211,513
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	5	1,206,917
RUSSIAN CW CLUB	3	1,188,686
ARIPA DX TEAM	4	1,142,558
LITHUANIAN CONTEST GROUP	3	918,487
MEDITERRANEO DX CLUB	4	904,059
CE CONTEST GROUP	4	652,613
UNIVERSITY OF TOKYO CONTEST CLUB	3	650,316
PERUGIA CONTEST CLUB	5	549,641
GUARA DX GROUP	4	531,039
RU-QRP CLUB	4	509,888
ARI CASTELLI ROMANI	3	382,283
RIO DX GROUP	3	243,896
CHILEAN PACIFIC DX GROUP	5	193,401
SK6AW HISINGENS RADIOKLUBB	3	138,863

2013 WW RTTY DX CONTEST BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs, Countries, Zones, US/VE on each band

WORLD TOP SINGLE OP ALL BAND

Station	80	40	20	15	10
LB8IB	330/48/11/19	791/71/20/48	802/72/25/53	971/76/29/54	196/54/26/39
K1FWE	199/36/12/41	480/61/20/39	997/82/28/45	1155/80/25/38	333/59/19/14
SN7Q	244/40/11/20	622/63/22/48	776/74/29/53	799/79/29/48	420/58/26/41
AB5K	177/11/7/43	633/54/22/50	1025/67/25/54	1372/74/25/45	292/48/17/19
W7RN	237/11/9/44	578/51/23/51	794/63/24/51	1233/76/26/52	406/41/19/37

WORLD TOP SINGLE OPERATOR ASSISTED ALL BAND

RG9A	271/44/7/0	721/82/25/20	833/92/32/54	897/94/29/42	714/73/24/4
UW1M	172/44/10/5	706/74/22/46	1202/93/35/54	1325/86/30/54	317/67/27/29
AA3B	298/39/13/44	754/69/23/50	941/94/30/44	1006/88/27/32	518/70/24/19
VA2UP	325/44/13/44	773/64/21/51	1033/80/26/47	1051/79/26/42	309/53/17/10
UA5C	173/45/10/5	649/80/23/45	888/91/33/51	1128/83/28/52	377/64/28/32

WORLD MULTI-OP SINGLE TRANSMITTER HIGH POWER

I4DZ	233/51/13/27	682/86/27/54	1041/106/34/57	1266/98/32/57	480/79/33/48
W2FU	323/50/17/48	776/88/29/51	1116/103/34/51	1036/106/30/51	388/90/31/44
EF8U	81/40/11/21	675/64/18/50	614/85/31/51	1100/89/27/53	1150/81/27/48
UZ2M	163/49/13/16	756/88/26/50	1054/99/32/55	1367/101/33/54	431/85/33/27
K1SFA	287/50/16/48	677/85/29/50	900/102/33/54	1044/106/32/52	374/84/31/37

WORLD MULTI-OP SINGLE TRANSMITTER LOW POWER

*VP9I	134/29/11/38	616/63/23/50	583/80/29/50	606/79/28/41	187/56/21/21
*SS0W	215/45/10/10	551/75/24/45	483/90/32/48	425/84/29/50	230/64/30/36
*DD1A	216/47/12/13	516/73/21/49	523/83/31/48	514/82/29/51	119/54/27/28
*CS5CRE	21/21/5/2	443/54/14/38	681/70/23/49	705/72/25/48	236/43/18/19
*OH5EHC	137/39/9/1	264/56/16/14	424/85/29/46	472/76/27/40	176/55/25/21

WORLD MULTI-OP TWO TRANSMITTER

CR3A	300/45/14/36	882/80/25/49	1346/85/31/57	1806/91/29/56	1096/84/28/50
P49X	228/27/13/45	1023/72/24/53	1013/78/30/57	1921/93/32/57	1220/75/30/56
W1UE	454/54/15/50	956/88/28/52	1308/105/34/53	1461/108/31/52	619/86/28/34
ED1R	340/50/14/31	1043/77/24/54	1339/98/31/54	1401/97/32/52	823/83/31/53
LX7I	508/51/12/27	1052/80/24/53	1343/101/34/56	1246/90/31/54	623/77/29/46

WORLD MULTI-OP MULTI-TRANSMITTER

ES9C	744/56/14/16	1775/102/31/54	2471/113/36/56	2100/109/33/57	891/85/31/46
HK1NA	367/46/15/42	1200/73/24/53	1702/92/32/54	1946/99/31/55	1515/83/28/53
9A1A	741/53/13/25	1550/90/29/51	1916/108/36/57	1782/99/33/57	1066/89/34/55
CR3L	303/51/14/32	777/67/21/49	1510/87/30/54	1284/88/30/52	1336/89/33/53
IO9UI	656/56/14/28	1237/83/23/50	1859/101/32/54	1549/88/31/56	790/82/32/48

USA TOP SINGLE OP ALL BAND

Station	80	40	20	15	10
K1FWE	199/36/12/41	480/61/20/39	997/82/28/45	1155/80/25/38	333/59/19/14
AB5K	177/11/7/43	633/54/22/50	1025/67/25/54	1372/74/25/45	292/48/17/19
W7RN	237/11/9/44	578/51/23/51	1233/76/26/52	406/41/19/37	406/41/19/37
K5ZD/1	116/31/11/33	281/47/17/38	400/63/25/26	647/72/22/32	294/56/19/14

USA TOP SINGLE OPERATOR ASSISTED ALL BAND

AA3B	298/39/13/44	754/69/23/50	941/94/30/44	1006/88/27/32	518/70/24/19
N1OD	117/29/11/34	398/60/18/41	744/83/28/41	703/84/26/34	335/58/18/18
K6LL/7	75/6/36	385/57/18/43	472/72/26/53	1166/81/27/54	159/42/20/30
W4PK	114/24/10/27	299/51/15/37	548/69/23/32	782/80/25/25	325/62/20/14
*N2QT/4	149/11/10/41	400/57/17/45	659/80/28/38	587/72/25/27	301/59/20/14

USA MULTI-OP SINGLE TRANSMITTER HIGH POWER

W2FU	323/50/17/48	776/88/29/51	1116/103/34/51	1036/106/30/51	388/90/31/44
K1SFA	287/50/16/48	677/85/29/50	900/102/33/54	1044/106/32/52	374/84/31/37
K4FJ	176/27/12/44	416/82/21/41	590/91/30/42	810/91/29/26	570/79/27/29
W0LSD	126/11/10/42	612/76/27/49	741/82/29/51	883/85/27/49	133/63/24/23
W1DX	69/35/12/30	482/71/21/41	408/86/32/39	1069/89/29/35	133/68/26/13

USA MULTI-OP SINGLE TRANSMITTER LOW POWER

*WJ4N	35/8/6/29	436/48/22/46	166/59/19/33	503/55/18/37	199/49/21/13
*AD5OW	73/3/4/31	202/34/17/40	152/41/15/34	221/55/21/20	59/28/16/6
*N3WZR	89/6/3/34	233/45/18/39	80/33/14/20	142/48/19/12	55/29/11/7
*W06X	26/4/5/14	24/5/6/13	83/19/13/30	90/30/18/22	31/11/9/11
*WN1G/4	15/1/3/13	28/5/6/17	46/15/12/18	80/41/21/13	36/18/13/6

USA MULTI-OP TWO TRANSMITTER

W1UE	454/54/15/50	956/88/28/52	1308/105/34/53	1461/108/31/52	619/86/28/34
K1G	399/51/14/48	926/87/28/50	1160/97/33/51	1383/97/32/43	564/82/29/30
K9CT	379/36/15/48	1041/81/29/50	1215/96/30/55	1475/97/31/49	633/74/27/24
WW4LL	172/27/12/41	672/72/24/47	899/79/26/50	1229/93/30/47	690/75/26/28
N7BV	68/6/7/29	281/34/20/39	658/71/26/49	898/80/30/44	279/36/18/39

USA MULTI-OP MULTI-TRANSMITTER

NR4M	577/51/17/49	1155/78/27/54	1367/98/33/51	1457/95/30/40	941/81/26/44
N0NI	425/33/15/53	909/67/26/49	1127/84/28/51	1399/85/29/41	550/66/24/25
NK7U	309/13/12/48	779/66/25/53	1181/83/27/56	1495/98/30/47	512/58/23/40
KA4RRU	348/30/13/49	551/60/20/49	1045/89/30/48	1156/86/28/32	570/69/26/25
N2PA	168/21/10/40	454/51/15/48	642/67/24/43	546/62/22/30	223/43/15/9

Single-Op Assisted QRP (30 logs submitted)

Single-Op Assisted All Band QRP (18). Ludek, OK3C (OK2ZC), set the new World record with a nice score of 713K. Fourth-place Paul, N6MA, set a new North America record with 296K. Jose, EA9CD, and Kazu, JK1TCV, set new Africa and Asia records with 60K and 47K, while David, VK5DG, and Eger, PY2EX, set Oceania and South America records with 14K and 10K.

Single-Op Assisted 15 Meters Low Power (42). Marcelo, LU7HF, set a new South America record for first place with 330K and Dimitry, 4Z5CP, set a new Asia record for second place with 329K, a very close race! Third-place Przemek, SQ9ORQ, won Europe with 272K and Dick, W7PP, won North America with 174K.

Single-Op Assisted 10 Meters Low Power (30). Jorge, LW5DW, set a new South America record with 348K and fifth place Hariy, YBØMWM, set a new Oceania record with 184K.

Multi-Operator (152 logs submitted)

Multi-Single High Power (67). The I4DZ (I4DZ, I4EWH, I4FYF, I4IFL, IK3QAR, IK3STG, IK4DCW, IK4HVR, IK4MGP, IK4WMH, IR4M, IW4EGX, IZ4GWE) team won and set a new Europe record with 7.6M while second place W2FU (K0SM, N2ZN, NW2K, W2FU, W6TR, WB2ABD) set a new North America record with 7.5M. EF8U (EA8RY, EA8NL, EA8ZS, EA8CNR, EA8DP, EA8AGF, EA8RT, EA8CQN, EA8CQH, EA8CQK, EA8CQO, EA8CQV, EA8CQW, EA8CQX, EA8CQY, EA8CQZ) set a new South America record with 7.4M.

EUROPE TOP SINGLE OP ALL BAND

Station	80	40	20	15	10
LB8IB	330/48/11/19	791/71/20/48	802/72/25/53	971/76/29/54	196/54/26/39
SN7Q	244/40/11/20	622/63/22/48	776/74/29/53	799/73/29/48	420/58/26/41
UU7J	211/46/11/13	693/63/18/42	992/90/30/51	896/73/23/51	182/48/21/16
EM0I	258/47/9/7	697/76/22/44	585/74/28/43	1011/82/30/52	102/37/23/6
DL1AO	265/42/10/22	514/55/16/41	478/63/26/46	687/67/23/55	293/56/26/37

EUROPE TOP SINGLE OPERATOR ASSISTED ALL BAND

UW1M	172/44/10/5	706/74/22/46	1202/93/35/54	1325/86/30/54	317/67/27/29
UA5C	173/45/10/5	649/80/23/45	888/91/33/51	1128/83/28/52	377/64/28/32
LZ8E	157/40/10/14	569/66/18/44	764/81/27/48	799/80/25/52	288/68/27/30
LN5O	194/44/11/8	641/80/23/47	968/97/34/53	537/73/24/51	94/36/18/21
OM5ZW	117/39/9/12	473/67/21/43	458/80/31/44	868/79/27/53	215/59/25/27

EUROPE MULTI-OP SINGLE TRANSMITTER HIGH POWER

I4DZ	233/51/13/27	682/86/27/54	1041/106/34/57	1266/98/32/57	480/79/33/48
UZ2M	163/49/13/16	756/88/26/50	1054/99/32/55	1367/101/33/54	431/85/33/27
YR1A	171/43/9/7	766/73/20/46	980/95/32/50	1116/85/30/57	355/75/31/38
3Z2X	190/45/12/8	777/81/27/51	789/95/33/52	806/89/29/51	353/76/30/34
SJ2W	215/49/11/19	575/88/28/49	774/98/32/53	939/90/32/54	310/67/26/34

EUROPE MULTI-OP SINGLE TRANSMITTER LOW POWER

*S50W	215/45/10/10	551/75/24/45	483/90/32/48	425/84/29/50	230/64/30/36
*DD1A	216/47/12/13	516/73/21/49	523/83/31/48	514/82/29/51	119/54/27/28
*CSSCRE	21/21/5/2	443/54/14/38	681/70/23/49	705/72/25/48	236/43/18/19
*OH5EH	137/39/9/1	264/56/16/14	424/85/29/46	472/76/27/40	176/55/25/21
*UX4E	61/22/5/0	409/62/19/26	359/58/21/18	321/54/23/35	128/38/24/12

EUROPE MULTI-OP TWO TRANSMITTER

ED1R	340/50/14/31	1043/77/24/54	1339/98/31/54	1401/97/32/52	823/83/31/53
LX7I	508/51/12/27	1052/80/24/53	1343/101/34/56	1246/90/31/54	623/77/29/46
IO1RY	474/49/12/27	843/76/22/52	976/100/34/56	1090/91/30/56	613/80/32/46
LZ5R	457/53/13/21	929/79/23/50	923/90/31/54	1161/85/29/57	468/76/30/38
DQ4W	470/51/12/22	672/82/26/44	974/101/33/54	1065/94/32/56	373/72/28/39

EUROPE MULTI-OP MULTI-TRANSMITTER

ES9C	744/56/14/16	1775/102/31/54	2471/113/36/56	2100/109/33/57	891/85/31/46
9A1A	741/53/13/25	1550/90/29/51	1916/108/36/57	1782/99/33/57	1066/89/34/55
I09UI	656/56/14/28	1237/83/23/50	1859/101/32/54	1549/88/31/56	790/82/32/48
HA30S	662/60/13/27	1265/91/27/51	1205/104/34/55	1362/97/32/57	771/80/28/51
OH2K	65/24/4/0	808/67/22/39	1026/71/28/49	740/66/26/51	312/57/24/51

EA8AHM, EA8BEX, EA8CYQ, EA8BQM, EA8AXB, EA8RM) won Africa with 7.1M and KH7M set a new Oceania record with 4.1M.

Multi-Single Low Power (37). The VP9I team (ND8L, WW3S, K3GP) won with 3.2M, edging out S50W (S51MA, S51DI, S51NM, S51I, S52OP, S52GC, S57XZ) with 3.0M. Sandi, S52OP, built a low power "quadplexer" to use with their single 4-band Yagi. Eighty meters is covered with a wire dipole. DD1A (HB9BJL, DL3GA, DO5FM, DO1GAR, DL1II) was a close third with 2.9M, staffed with a number of younger contestants whose licenses restrict them to 100 watts. ZW8T (PS8BR, PS8HF) won South America with 731K and RX9SR won Asia with 442K. Club station IQ4RN took 8th with five (IZ4WBA, IK4PLK, IZ4WAS, IK4FMZ, IZ4AFJ) of their six members (leader IK4DCX) enjoying their first contest. This category is well-suited for developing new contestants in a team environment.

Multi-Two (27). The CR3A team (CT3BD, CT3DL, CT3DZ, CT3EE, CT3EN, CT3KY) won with 11.6M while P49X (W6OTC and WØYK) took second with 11.1M. Third-place W1UE (W1UE, W1UJ, K3JO, K5ZD) set a new North America record with 9.6M. ED1R (EA1AR, EC1KR, EA2CJ,

EA2CYJ, EA4TD, EA4AOC, EC4DX, DK7AH) won Europe for fourth place with 9.2M.

Multi-Multi (21). The two top teams both broke the World record: ES9C (ES2ADF, ES2ADO, ES2MA, ES2MC, ES4RD, ES5GP, ES5HTA, ES5JR, ES5QA, ES5RY, ES5TF, ES5TV, OH2BP, YL1ZF, YL2GQT, YL2KF, YL3AD, YL3DW) with 16.3M and HK1NA (HK1R, HK1T, HK1N, LU8EOT, HK6NVV, HK6F) with 15.2M for a new South America record. Third-place 9A1A (9A2DQ, 9A5DDT, 9A5E, 9A5W, 9A6A, 9A6TKS, 9A7C, 9A7R, 9A9A) also broke the prior European record, held by themselves from last year with 14.4M.

Clubs

Europe. Amongst the familiar top two clubs, the Bavarian Contest Club (BCC) prevailed with 104 logs and 68M over the Rhein Ruhr DX Association (RRDXA) with 58 logs and 61M. Third-place Ukrainian Contest Club (UCC) made 35M with its 31 logs.

United States. The Potomac Valley Radio Club (PVRC) pooled 39 logs for third in the world to win the US with 38M over Yankee Clipper Contest Club (YCCC) with 28 logs and 34M. The next three US clubs were very close to the fourth and fifth place DX clubs, all at 17-18M.

Plaques

At the time of publication we were still receiving confirmations of plaque sponsorships and winners. The current list is at <<http://www.cqwwrtt.com/plaques.htm>> and is updated as each sponsor commits to a plaque. Thank you to everyone who sponsors a plaque! A plaque can be sponsored for just about any category at the world or regional or country level. Take a look and think about a plaque you would like to

sponsor. You can have your pick of any one that is not already committed as a sponsor.

Logs

Log statistics were almost identical to 2011 and 2012. There were enough logs such that 86.7% of all QSOs were cross-checked and 97% of those QSOs were deemed good. 0.9% of all QSOs had busted (incorrect) callsigns and 0.5% of the QSOs had busted exchanges, either Zone or QTH. Another 1.6% were not found in the other station's log. Individual Log Check Reports (LCRs) are available upon request to <w0yk@cqwwrtt.com> where you can see how your log stacks up.

Website

The contest website <www.cqwwrtt.com> is a valuable resource for all aspects of the contest: rules (including language translations), log format, log submittal, historical statistics and results database (searchable for any entry, and



Ymanol, YW2LV (YV5YMA), winning SO QRP with simple dipole antennas 1700 feet above the Caribbean Sea.

geographical breakdown and all-time records).

Thanks

Thanks to all participants who, together, make this a fun weekend for everyone. Thanks also to the team of volunteers behind the scene who make it all possible:

- Gail, K2RED, Managing Editor of CQ, for all she does for the contests.
- Rules translators: Boyan, LZ2BE; Vasek, OK1VRF; Herman, ON4QX; Tapani, OH2LU; Fabi, VA2UP; Kostas,

SV1DPI; Kazu; JK3GAD/M0CFW; Marcos, PY2WS; Vlad, VE3IAE; Diana, XE2DN; and Hector, XE2K.

- Ken, K1EA, provides the log-check software and consulting during log check.

- Mark, K6UFO, laboriously typed in paper logs.

- Ray, ND8L, manages the CQ RTTY contest plaque program. (And a big thanks to Mike, K4GMH, who managed the plaque program for the past decade. It's a huge job and Mike well-deserves a break!)

- Barry, W5GN, manages the certificate printing and mailing.

- Randy, K5ZD, for his continual support on a wide range of issues.

For expanded results of the contest, including QRM, operators of multi stations, expanded tables, plaque information, and more, go to <www.cq-amateur-radio.com> and <www.cqwwrtty.com>. I look forward to seeing everyone again in the 28th annual CQ WW RTTY DX Contest on 27–28 September 2014.

73, Ed, W0YK



Abdullah, HZ1BW, set a new Asia record to win 10 Meters QRP.

Number groups after callsigns denote the following: Band, Final Score, QSOs, Countries, Zones, US/VE. An asterisk (*) indicates low power. Certificate winners are listed in boldface.

2013 RTTY RESULTS SCORES SINGLE OPERATOR NORTH AMERICA

K1FWE	A	4,691,368	3164	318	104	177	K4EDT	*	13,795	62	28	28	13	*AF6GA	*	3,100	43	12	13	25	*W9KVR	14	20,160	101	44	17	19	
K5ZD/1	"	2,312,926	1738	269	94	143	K4OP	*	8,142	46	43	24	2	*KA6MLE	*	156	7	6	5	1	ACOC	A	2,870,175	2443	271	91	177	
W1ZK	"	983,916	1066	185	67	110	NN4K	3.5	1,488	25	10	8	13	*K6GHA	21	182,160	498	78	29	37	K6XT/0	"	1,549,147	1359	233	98	156	
K8PO/1	"	168,399	355	109	40	40	*W4GDG	"	697,788	812	186	67	111	*N6VJ	14	127,743	436	70	26	51	ABORX	"	1,548,632	1602	219	84	169	
WA2HIP/1	"	99,750	287	89	37	64	*AC4CM	"	521,646	664	192	69	122	*K6COR	*	35	3	2	3	2	KOJJR	"	819,698	917	201	74	143	
K1SM	"	53,592	225	53	19	15	*KV4QS	"	436,614	621	157	59	102	*N6EE	7	5,115	67	12	9	10	KOAP	"	645,014	800	170	67	74	
K1MII	A	877,584	937	204	71	114	*W8KHP/4	"	359,090	522	149	66	83	*W7RN	A	4,059,872	3248	242	101	235	(Op: WK6)	W8BON	"	488,682	783	127	61	118
(Op: N4CW)							*W3SA/4	"	322,007	469	158	59	76	*W6AEA/7	"	1,218,868	1338	172	81	178	KD0FW	"	496,620	588	174	75	107	
K1FWE	A	4,691,368	3164	318	104	177	*K4DH	"	281,709	486	137	59	81	K7WP	"	1,058,340	1043	206	93	166	AA0AW	"	360,097	528	144	68	81	
K5ZD/1	"	2,312,926	1738	269	94	143	*W0PV/4	"	247,660	339	155	73	77	NN3RC/7	"	721,035	1060	154	57	116	KOJPJ	"	261,170	417	136	55	54	
W1ZK	"	983,916	1066	185	67	110	*W04D	"	213,188	428	123	45	71	K7HP	"	501,466	740	130	72	141	KOHB	"	237,634	409	115	56	91	
K8PO/1	"	168,399	355	109	40	40	*K4FJW	"	198,264	373	128	55	81	N7UVH	"	484,848	821	113	61	159	W0EM	"	200,147	509	92	47	94	
WA2HIP/1	"	99,750	287	89	37	64	*W4WWQ	"	181,745	327	132	48	43	KD7MSC	"	467,381	702	126	66	131	W0JM	"	197,856	441	132	57	99	
K1SM	"	53,592	225	53	19	15	*K4F1O	"	178,871	342	116	57	80	NK7Z	"	418,748	638	137	73	131	W0ZQ	"	174,474	314	114	51	78	
K1MII	A	877,584	937	204	71	114	*W3PA/4	"	177,288	355	116	60	91	K6UM/7	"	411,102	594	133	73	115	K0VG	"	162,345	324	114	50	73	
(Op: N4CW)							*K4DLI	"	158,418	303	114	58	62	N7MO	"	363,655	549	130	61	92	N0KK	"	145,780	298	110	45	42	
K1FWE	"	600,208	703	195	76	97	*K4KHEG	"	281,709	486	137	59	81	K7YX	"	265,203	489	106	56	75	KD0CVO	"	81,510	224	83	48	59	
K4TC	"	452,042	635	162	60	95	*K4CC	"	145,184	261	130	51	27	N1YR	"	224,434	372	119	65	103	K0YO	"	80,282	210	85	40	12	
K1PU	"	38,072	494	174	64	70	*W4HJM	"	133,952	287	111	51	62	K7CV	"	218,139	416	111	59	97	K1E/0	"	50,840	167	63	45	47	
K8B1RL	"	254,563	543	126	54	97	*K4SP	"	142,236	303	107	43	54	W7OLY	"	171,094	305	133	67	62	KCORET	"	46,488	168	68	36	45	
N1DBL	"	131,120	278	108	47	65	*W4UFT/4	"	121,426	268	99	52	67	KB7N	"	167,760	345	99	54	77	W0WOM	"	34,574	117	79	36	3	
N1GN	"	101,592	224	102	50	52	*W4AUF/4	"	118,125	232	107	38	44	N0TT	"	154,560	90	49	50	42	K0M1	"	15,652	111	28	19	39	
AB1P	"	55,204	163	85	33	30	*K4U4A	"	119,168	219	93	39	44	N7NZ	"	142,524	243	133	60	51	NOLEF	"	14,080	85	34	23	23	
AEP	"	52,216	190	59	28	20	*K4U4B	"	115,168	232	98	35	49	N0IM	"	5,940	42	29	21	5	W0GJC	"	7	302,632	972	74	74	51
W1WZ/1M/Y1	"	26,244	107	52	29	27	*N2WNN/4	"	75,530	231	72	30	18	W6XJ	"	113,078	268	93	53	51	*NTOF	A	1,218,414	1262	27	77	130	
W1WZ/2M/Y1	"	15,900	113	39	18	21	*W0OOG/4	"	63,684	206	83	43	57	K7TE	"	82,025	177	45	41	77	*KD4POJ/7	A	1,422,232	823	119	63	57	
W1WZ/3M/Y1	"	15,330	83	43	18	12	*W4EVJ	"	60,300	215	78	36	26	K7UA	"	62,746	185	65	37	35	K0SM	"	34,735	524	151	61	57	
K1JL	"	11,049	60	41	21	19	*W4BK	"	54,236	162	76	36	37	AB7R	"	56,842	263	45	18	26	W0GJM	"	325,580	570	118	66	118	
K1WJ	"	8,040	47	38	21	8	*W4ELP	"	53,500	159	81	42	33	N7NP	"	47,790	170	61	33	41	W0GDC	"	316,045	180	146	60	80	
*N9RE/1	21	28,800	142	48	19	5	*N4MKA	"	50,592	176	68	37	31	W6JW/7	"	40,866	37	30	29	23	K1FOUR	"	143,835	332	90	46	79	
**WW1MM	3.5	10,726	115	24	10	28	*W4SDJ	"	43,472	171	61	37	54	AD7OG	"	40,415	130	62	35	40	W0NM	"	139,009	286	99	56	66	
(Op: N1EN)							*W5NZ/4	"	33,561	120	60	35	18	W7ZR	28	57,783	310	47	23	33	W0PI	"	105,963	251	88	44	77	
K2UF	A	400,044	609	165	91	22	*K4AR	"	32,928	126	72	28	28	K9JJ/7	"	5,160	135	22	12	46	*W7PNU	A	101,530	64	24	46	46	
K2NV	"	63,675	119	39	44	44	*K4V4B	"	32,736	101	75	34	15	W7PNU	"	5,160	135	22	12	46	W0QOLU	"	70,500	203	78	41	69	
WA2MCR	"	247,096	499	126	59	83	*K4VOZ	"	29,999	124	52	36	37	N9AJ/7	"	6,038	114	54	24	23	K0AB	"	6,038	114	54	24	23	
K3R8	"	235,761	363	150	57	60	*K4WQ	"	27,168	136	45	33	18	*W7RN	3.5	24,282	251	13	12	46	W0JN/7	"	6,038	114	54	24	23	
(Op: W1MAT)							*K4KAR	"	26,500	114	49	31	26	K7QO	A	5,070,876	676	152	71	116	W7TH/Y/0	"	56,780	75	46	49	49	
K2ZC	"	65,175	163	46	33	36	*K4DWB	"	23,617	101	45	31	27	*W7TSQ	"	388,375	648	117	70	138	K0CBR/0	"	55,568	194	67	35	49	
K2CKZJ	"	8,694	51	41	22	0	*K4JTT	"	19,864	95	45	30	29	*W7SV	"	319,188	584	116	55	97	K0SM	"	45,600	171	65	29	26	
WB2AV/4	28	1,820	28	13	9	4	*K4JWD	"	14,450	73	44	24	17	K7XL	"	197,106	375	103	65	98	K0OB	"	39,059	149	58	36	45	
W1TV/2	7	128,780	489	63	22	52	*K4AMO	"	12,699	81	31	22	30	N7XO	"	195,200	405	103	49	92	K0KT	"	35,990	155	77	31	40	
N8CL2/3	3.5	35,518	28	30	12	44	*K4NLS	"	10,000	75	44	30	26	*K7EABU	"	188,496	355	97	61	94	K0AE0IC	"	28,435	126	51	30	40	
*K2DSL	A	808,346	886	205	75	126	*W4WNT	"	10,792	64	46	25	5	*AD7ND	"	181,114	379	105	58	111	N0IRT	"	16,878	104	38	18	35	
K2QD	"	629,552	767	194	73	125	*K4KHI	"	9,744	57	35	27	22	*W7TSQ	"	153,547	371	81	52	100	K0WXR	"	16,500	77	45	27	3	
K2FH	"	46,200	138	77	41	36	*K5ER	"	8,190,152	1973	192	86	130	*W7PBL	"	143,980	299	86	56	86	K0FBV	"	14,700	90	31	28	46	
K3UK/2	"	42,920	148	66	37	45	*K5L	"																				

Cuba		Asia												Kyrgyzstan															
A	150,792	326	92	36	78	*RA0CHK	28	42,480	211	44	17	11	*JA2GHP	•	115,584	257	97	43	28	*EX2B	A	212,550	400	128	47	0			
CO2W1	*	14,307	122	23	9	25	*RXOSC	21	40,107	180	48	18	21	*JA2GKX	•	61,472	228	65	30	25	*EX8BN	•	13,940	77	48	20	0		
CO4EC	28	43,736	194	46	18	24	*TA7I	A	20,608	119	39	15	10	*JA2KNR	•	54,889	154	73	42	16	*EX2U	•	5,600	51	28	12	0		
CO2GL	*	90,125	383	44	18	41	*J007U	A	10	7	21	(Op: CO9BZ)		*JA2DD	•	43,488	128	63	45	35	Oman	Oman		Oman		Oman			
CO6TU	14	61,128	259	47	19	42	*J018L	7	3,990	48	10	7	21	*JA2ZCUS	•	34,335	113	44	29	32	A45XR	28	195,778	551	74	24	23		
CO8CD	*	148,711	100	52	20	26	(Op: CO9BZ)		*J018L	7	3,990	48	10	7	21	*JA2ZCV	•	9,842	57	32	26	16	*A4100	21	2,646	37	20	7	0
Dominican Republic		China												*JA2ZQV	•	4,482	35	29	24	1	Republic of Korea	Republic of Korea		Republic of Korea		Republic of Korea			
HIPJP	7	46,407	251	46	16	31	BG2VIA	A	14,950	114	30	26	9	*JA2ZQX	•	3,496	32	18	11	9	HL2WP	21	324,990	718	79	28	50		
El Salvador		Guadeloupe												*JA2ZKL	•	2,772	35	23	15	6	*D52GPO	A	92,575	222	87	51	23		
*YS1NP3J	A	1,087,697	1152	157	65	181	*BG6CJR	21	30,525	168	35	19	21	*JA2FWKS	•	8,505	79	32	13	0	*DSSVTG	•	27,225	103	53	35	11		
FG8OJ		Georgia												*JA2ZUB	•	72,705	231	62	22	27	HZ1PS	A	1,241,186	1212	190	63	105		
*FG5GLA	A	482,980	1297	75	27	53	*BD6JPV	21	22,704	221	30	12	6	*JA2HYD	•	40,040	176	44	20	24	HZ1XB	21	380,565	984	68	22	45		
*FG4NO	3.5	2,528,400	2070	229	82	179	*BD70XR	*	16,800	159	31	17	2	*JA2ZM	•	16,770	94	40	15	10	*Z71SJ	A	1,811,461	1581	240	85	84		
Guatemala		Hong Kong												*JA2ZL	•	4,482	35	29	24	1	*Z71HL	•	97,432	233	94	36	22		
Martinique		Israel												*JA2ZP	•	7,978	50	32	22	17	Saudi Arabia	Saudi Arabia		Saudi Arabia		Saudi Arabia			
*TM1HN	14	11,592	85	35	13	15	*VU2NKS	A	1,106,157	1124	217	70	52	*JA3QOS	A	576,270	611	165	88	89	BV1EK	A	400,752	674	138	66	38		
Mexico		Japan												*JA3QX	A	473,658	647	121	62	84	*BV4VR/6	A	69,375	250	77	37	11		
XE2X	21	131,750	423	61	23	41	*VU2RMS	*	37,878	145	65	28	14	*JA3TMW	A	63,840	160	80	45	27	*BV1EL	"	65,591	255	61	35	11		
XE41TD	*	26,838	171	22	13	36	*4Z5MY	14	49,446	220	55	17	10	*JA3UIC	A	57,589	162	58	38	37	*BV8SH	"	7,367	55	34	19	0		
*XE1XOE	A	216,315	393	78	51	124	*4Z5UN	7	221,980	710	66	18	26	*JA3AVO	A	55,208	153	68	38	28	*BV4VQ	21	2,676	112	6	6	0		
(Op: XE1H)		Israel												*JA3E3GE	28	32,805	149	45	20	16	Taiwan	Taiwan		Taiwan		Taiwan			
Puerto Rico		Japan												*JA3E3G	A	1,593	29	16	11	0	BV1FEN	A	414,895	885	107	35	27		
WP4DT	A	44,488	194	53	31	50	*J101DV	A	1,466,138	1238	219	93	121	*JA3E3G	A	1,593	29	16	11	0	*BV4VR/6	A	69,375	250	77	37	11		
*WP3GW	A	173,116	304	131	53	42	*J101F	A	726,084	818	169	76	87	*JA3E3G	A	1,593	29	16	11	0	*BV1EL	"	65,591	255	61	35	11		
*NP4BM	"	68,628	206	68	29	32	*J101G	A	703,378	758	180	81	77	*JA3E3G	A	1,593	29	16	11	0	*BV8SH	"	7,367	55	34	19	0		
*NP4EG	"	3,549	33	25	12	2	*J101H	A	178,602	300	96	51	59	*JA3E3G	A	1,593	29	16	11	0	*BV4VQ	21	2,676	112	6	6	0		
*NP3CW	28	8,918	90	10	9	30	*J101J	A	133,464	256	111	55	35	*JA3E3G	A	1,593	29	16	11	0	Tajikistan	Tajikistan		Tajikistan		Tajikistan			
St. Lucia		Africa												*JA3E3G	A	1,593	29	16	11	0	Thailand	Thailand		Thailand		Thailand			
US Virgin Islands		African Italy												*JA3E3G	A	1,593	29	16	11	0	A61ZX	21	958,454	1185	185	66	56		
AFRICA		Angola												*JA3E3G	A	1,593	29	16	11	0	United Arab Emirates	United Arab Emirates		United Arab Emirates		United Arab Emirates			
*KV4FZ	A	1,111,474	1213	198	83	153	*J01COV	21	214,527	584	59	23	47	*JA3E3G	A	1,593	29	16	11	0	UK7AL	A	290,301	502	138	49	22		
Africa		Angola												*JA3E3G	A	1,593	29	16	11	0	UK7F	A	457,569	636	174	62	33		
Ceuta & Melilla		Ceuta & Melilla												*JA3E3G	A	1,593	29	16	11	0	Vietnam	Vietnam		Vietnam		Vietnam			
E9ALZ	14	110,568	383	46	17	39	*J01EAD	A	944,118	919	192	88	101	*JA3E3G	A	1,593	29	16	11	0	West Malaysia	West Malaysia		West Malaysia		West Malaysia			
Egypt		Canary Islands												*JA3E3G	A	1,593	29	16	11	0	9M4CC	A	508,305	882	145	60	30		
Madeira Islands		Morocco												*JA3E3G	A	1,593	29	16	11	0	*9M2SGN	A	1,650	25	15	14	1		
CT3FQ	21	889,350	1832	82	28	55	*J01EAD	A	260,739	362	129	66	88	*JA3E3G	A	1,593	29	16	11	0	*9W2VWH	28	4,400	44	28	13	3		
Morocco		Senegal												*JA3E3G	A	1,593	29	16	11	0	OH0V	14	940,866	2072	100	36	55		
*5C5W	A	766,320	846	124	53	132	(Op: CN8KD)	South Africa												(Op: JA4XHF/3)		(Op: JA4XHF/3)		(Op: JA4XHF/3)					
Senegal		South Africa												*JA3E3G	A	1,593	29	16	11	0	*EA6ZS	A	24,000	131	67	22	11		
*6V7X	28	649,496	1447	75	23	54	(Op: IK2FIL)	Asia												Azores		*EA6XQ	28	56,172	251	40	19	19	
Asia		Asiatic Russia												*JA3E3G	A	1,593	29	16	11	0	Balbaric Islands	Balbaric Islands		Balbaric Islands		Balbaric Islands			
RW90A	A	317,616	561	130	41	37	*JA1AT	A	17,255	79	36	20	29	*JA3E3G	A	1,593	29	16	11	0	EW8DD	A	1,666,748	1965	210	67	109		
RV9MA	21	125,678	229	108	51	32	*JA1CX	A	17,177	70	52	31	6	*JA3E3G	A	1,593	29	16	11	0	EUFAB	"	839,456	1205	154	50	92		
UA90G	21	42,240	283	44	11	0	*JA1RRP	A	11,571	72	32	16	9	*JA3E3G	A	1,593	29	16	11	0	EW7EW	"	424,600	686	159	62	54		
*RA9JB	A	1,383,680	1544	209	58	53	*JA1RQI	A	11,571	72	32	16	9	*JA3E3G	A	1,593	29	16	11	0	*E03PRU	"	207,270	409	137	54	54		
*U90J	"	756,755	904	202	64	41	*JA1RQY	A	11,571	57	25	22	23	*JA3E3G	A	1,593	29	16	11	0	*E02LCM	A	126,326	307	82	36	48		
*UA9AF	"	633,100	893	179	57	24	*JA1RRQ	A	11,070	293	17	63	56	*JA3E3G	A	1,593	29	16	11	0	*E01TKW	"	110,797	237	72	17	30		
*RA9UC	"	409,932	673	142	51	33	*JA1RRH	A	100,176	317	99	60	65	*JA3E3G	A	1,593	29	16	11	0	*E02UL	14	660	21	14	6	0		
*RA9KD	"	250,530	444	140	46	24	*JA1RJL	A	169,231	290	115	60	54	*JA3E3G	A	1,593	29	16	11	0	Austria	Austria							

OL7M	A	Czech Republic	589,329	1110	103	41	63	RZ4HW	21	345,506	917	84	31	46	DK1FW	*	398,769	440	189	73	95	*D06NIK	3.5	2,728	73	19	3	0
		(Op: K1C1D)						RW4WZ	*	330,448	941	85	28	39	DL5YM	*	375,182	551	155	61	82	OH2BBT	A	956,955	1018	203	76	114
OK1DE	*	403,152	584	160	60	76	R3BT	*	307,280	713	85	31	51	DJ5TT	*	352,782	603	161	63	54	OH3OJO	*	664,400	1102	163	54	58	
OK1EZ	*	46,592	139	51	38	39	R7NK	*	294,375	796	84	29	44	DF5BX	*	319,000	516	157	62	56	(Op: OH3OJO)							
OK2BXW	28	24,705	130	38	19	24	UA6LJB	*	140,154	486	76	28	37	DL1MAJ	*	312,734	489	135	56	80	OH9VTD	*	343,952	562	134	54	31	
OK1XC	14	43,560	298	54	17	1	UC7A	*	54,384	223	47	19	37	DK7MD	*	277,245	339	134	74	95	OH10A	*	113,184	215	131	54	31	
OK1EP	7	122,382	460	59	15	43	UC7A	*	14,040	124	41	13	6	DL3ARK	*	270,270	427	146	61	63	(Op: OH3XF)							
OK1MSP	*	50,592	229	55	17	30	R05D	*						DG0KS	*	255,219	440	132	53	56	(Op: OH1HS)							
OL9A	3.5	189,072	855	57	13	34	RU5TT	14	252,902	826	74	29	39	DF1LON	*	237,861	421	133	58	56	OH2XX	*	31,920	113	37	24	44	
(Op: K022AW@OL7M)							RJ6DE	*	129,250	439	62	19	44	DK6IM	*	221,490	333	135	56	89	OH2RI	28	92,988	330	60	27	21	
*OK7V	A	913,706	898	207	87	115	(Op: K1VRF)							RJ3AV	7	156,937	632	72	18	31	*OH6BA	A	320,790	545	136	50	69	
*OK7T	*	907,100	1044	201	79	106	(Op: K01FH1)							RJ3AA	*	87,465	358	57	18	30	*OH2NT	*	221,748	568	142	46	46	
OK8DD	*	492,576	614	173	72	91	R7MM	A	1,387,386	1,266	272	87	82	DK4IO	*	144,627	300	106	53	54	*OH2EK	*	114,072	350	112	45	37	
OK2PQS	*	438,641	699	158	59	64	R7MM	A	1,387,386	1,266	272	87	82	DC2KN	*	127,872	253	126	57	39	*OH7NW	*	52,246	132	64	45	42	
OK1HEH	*	381,432	670	166	56	54	R7MM	A	1,009,470	1,147	232	81	86	DK2JP	*	106,575	200	93	60	50	*OH3DP	*	19,440	79	27	24	39	
OK1BA	*	287,144	537	149	55	47	R7MM	A	818,070	841	222	79	106	DL1KUR	*	98,436	224	51	40	65	*OH2ECG	*	30	2	1	2	1	
OK2UHP	*	280,998	567	136	48	49	R7MM	A	788,200	1017	207	74	69	DL1TPY	*	40,608	252	76	20	0	*OH9UFO	28	65,500	258	52	23	25	
OK2BUT	*	263,572	431	143	58	61	R7MM	A	728,000	892	218	80	66	DM2LS	*	28,728	108	34	31	24	France							
OK1PMA	*	230,736	395	131	59	63	R7MM	A	529,836	902	167	55	46	DL3MR	*	19,110	108	42	28	21	F5VKT	A	2,280,236	1822	252	94	172	
OK1FFW	*	222,750	390	125	58	67	R7MM	A	510,714	774	175	62	69	DL1LOD	*	14,288	81	45	23	8	F6AUS	*	592,224	609	199	87	112	
OK2EA	*	175,000	403	121	43	36	R7MM	A	508,200	1053	148	45	27	DL3AX	*	2,046	30	19	12	0	F1RHS	*	317,397	539	103	45	53	
OK2PAD	*	139,740	320	127	54	23	R7MM	A	469,404	670	160	73	73	DL3BXA	*	173,012	329	145	66	48	F1AKK	28	178,996	456	64	32	50	
OK2SPD	*	134,232	313	103	43	42	R7MM	A	423,291	621	191	69	43	DL4CF	*	64,236	220	50	35	31	F5BEG	*	226,55	25	29			
OK1FRO	*	69,455	225	91	31	23	R7MM	A	416,444	686	172	60	46	DL4MF	*	211,672	1397	85	30	54	F2AR	A	523,761	684	188	69	86	
OK1TK	*	44,392	172	76	30	18	R7MM	A	359,260	601	166	58	53	DK1MM	7	1,311	25	12	7	4	F6GCI	*	415,800	576	165	70	83	
OK1XR	*	33,063	170	71	28	4	R7MM	A	331,884	630	166	53	33	DL1TRK	*	235,206	507	179	65	83	F4VPX	*	385,206	507	131	30	47	
OK2JNJB	*	24,500	136	53	26	21	R7MM	A	313,913	435	126	40	30	DL2BZB	A	602,976	797	200	79	73	F5RDR	*	276,224	468	140	56	60	
OK2SWD	*	1,435	22	16	11	8	R7MM	A	313,913	435	126	40	30	DL3AX	*	513,907	683	200	76	71	F5LEN	*	177,660	313	72	49	83	
OK2ZP	*	32,385	141	39	24	22	R7MM	A	294,077	513	141	52	40	DL3BX	*	446,946	632	169	64	93	F4FDR	*	158,213	386	134	46	29	
OK3MO	14	50,232	272	45	19	20	R7MM	A	266,500	376	152	52	40	DL3ARM	*	378,810	667	150	53	67	F6FDR	*	155,155	280	91	56	80	
OK6LZ	*	16,147	103	35	15	17	R7MM	A	233,376	393	166	64	42	DL4ZA	*	377,568	572	172	61	71	F1INH	*	135,330	296	106	48	41	
OK4FX	*	11,554	99	31	14	8	R7MM	A	230,265	418	154	61	40	DK7TM	*	370,111	699	160	54	45	F4FHZ	*	80,199	187	79	38	47	
OK1FIPS	7	27,000	235	46	10	4	R7MM	A	211,770	434	126	45	44	DL1ARJ	*	361,790	612	168	67	64	F6DZD	*	31,694	109	36	25	45	
OK2SAR	3.5	44,605	431	45	8	2	R7MM	A	193,660	309	125	49	46	DK7H	*	355,813	499	166	70	71	F6H1Y	*	27,864	99	31	30	47	
Denmark							R7MM	A	181,640	309	125	49	46	DL5SSB	*	348,648	592	171	58	63	F5MMB	*	24,012	99	37	29	26	
DK2TF	A	343,449	523	123	53	103	R7MM	A	178,880	410	123	43	42	DK3EH	*	333,526	531	122	56	84	F5CT	*	15,525	71	19	21	35	
DP2PG	*	77,700	227	67	36	37	R7MM	A	177,882	410	136	47	20	DL3XW	*	323,232	598	145	60	54	F6FTB	*	12,675	80	24	17	24	
OD1ADL	*	47,175	166	45	27	39	R7MM	A	176,250	399	113	44	36	DL5JS	*	293,787	432	138	62	79	F5RQO	*	9,447	63	36	18	13	
DK6TL	14	128,016	455	69	25	32	R7MM	A	160,167	329	110	50	43	DL6SF	*	292,512	478	151	59	54	F4DSK	*	155,155	280	91	56	80	
*5P9X	A	804,750	961	204	76	90	R7MM	A	151,931	435	126	43	0	DL1HTY	*	272,607	473	157	62	48	*SV7CD	A	179,718	345	132	48	51	
(Op: OZ9GA)							R7MM	A	150,138	417	95	34	42	DK5WQ	*	159,075	287	106	52	67	*SV2CLJ	*	124,347	323	114	41	26	
*0Z7D	*	221,616	426	115	57	44	R7MM	A	145,200	309	125	48	41	DK7UM	*	108,667	305	104	46	19	*SV1OXU	*	59,909	189	75	31	33	
*0Z4FF	*	81,025	205	88	44	43	R7MM	A	145,914	243	118	46	18	DK7H	*	201,760	319	131	60	69	Greece							
DK5LZ	*	69,678	261	83	31	12	R7MM	A	145,741	243	105	43	32	DK2PL	*	197,532	405	151	56	79	HA0HW	A	64,795	214	64	29	52	
DK6AGX	*	34,104	165	61	25	12	R7MM	A	145,500	243	105	43	32	DL2LZU	*	197,528	405	151	56	79	HA1ZH	A	35,458	205	72	41	77	
DK6GHD	*	34,655	288	189	76	88	R7MM	A	145,327	226	80	40	39	DL2LMS	*	130,123	258	97	54	52	HA2OS	*	77,688	214	91	44	31	
DK63CSY	*	29,268	122	61	28	19	R7MM	A	145,152	221	80	38	11	DK4RL	*	114,392	302	97	43	41	HA3OOU	*	30,360	101	60	38	28	
DK63RTU	*	106,312	237	94	44	56	R7MM	A	145,000	221	80	35	10	DK2KD	*	114,218	298	105	42	44	HA0GK	21	63,336	236	48	17	39	
DK60GDU	*	90,848	266	107	38	22	R7MM	A	144,815	221	80	35	10	DK7HM	*	108,667	299	140	45	29	*HG0R	14	287,874	845	89	30	43	
DK64HBI	*	79,866	222	67	30	56	R7MM	A	144,630	205	78	25	14	DL1VY	*	107,304	413	95	25	60	(Op: KD9R)							
DK60MDR	*	6,545	51	21	13	21	R7MM	A	144,445	204	78	25	14	DK3VY	*	143,620	408	151	56	79	Iceland							
DK64GQB	*	4,558	54	27	14	2	R7MM	A	144,223	58	30	28	19	DL7QO	*	34,795	176	72	32	26	EIRE							
DK64ZOB	28	40,680	184	45	23	22	R7MM	A	144,000	270	126	30	28	DK9MH	*	20,793	108	46	24	17	TF3AM	A	1,764,918	1937	244	73	109	
DK64DBW	7	100,800	511	61	15	20	R7MM	A	143,200	270	126	30	28	DK9WH	*	20,793	108	46	24	17	Ireland							
G3VMY	3.5	42,032	324	45	11	15	R7MM	A	143,000	270	126	30	28	DK9VH	*	20,793	108	46	24	17	E14KI	A	925,443	1208	153	60	108	
G4FJK	*	9,417	111	33	8	2	R7MM	A	142,810	270	126	30	28	DK9AM	*	20,793	108											

IN3EJN	143,724	396	125	45	7	*PA3ACA	"	225,758	393	121	65	61	*SP4BPH	7	18,603	192	39	9	5	*EC5AEZ	"	75,950	215	92	45	38				
*IK2YDM	"	136,990	308	120	48	38	*PE1CPJ	"	214,720	453	131	48	41	*CT7ABQ	A	157,464	334	131	54	58	*EC5JC	"	72,030	253	99	32	16			
*I0Y0V	"	130,536	243	103	59	60	*PA3BDU	"	190,585	341	116	60	59	*A7AZA	"	45,000	142	83	42	25	*EC5J	"	72,030	253	99	32	16			
*IW2FUT	"	129,307	281	90	36	65	*PA0TC4	"	146,492	275	109	59	68	*CT2GMH	A	215,366	381	129	55	73	*EA2DE	"	42,372	140	60	38	34			
*IZ5ILK	"	123,344	243	104	58	46	*PB0ACU	"	148,610	314	90	46	57	*C11FOQ	"	112,048	246	100	45	43	*EA5BF	"	19,314	122	48	23	16			
*IK2DKX	"	118,560	274	105	51	34	*PA7LZ	"	143,903	447	111	40	0	*CT1EEK	21	243,628	696	83	26	45	*EA7VJ	"	14,760	78	38	24	10			
*IV3AVQ	"	100,640	242	109	47	29	*PB2A	"	142,274	208	102	48	67	*RA3GBA	"	14,634	132	35	12	7	*EA1EWY	"	12,935	92	44	14	7			
*IZ2GRG	"	98,747	205	73	47	71	*PA1TRB	"	125,705	400	99	37	19	*EA7AHA	"	10,858	50	41	35	13	*EA1TV	"	12,935	92	44	14	7			
*IZ5HQB	"	98,670	255	78	39	48	*PD1RO	"	115,083	315	88	39	44	*EA7HAA	"	10,858	50	41	35	13	*EA5GTO	"	6,200	48	33	21	8			
*IK2AUK	"	98,250	260	109	41	34	*PD5JK	"	113,022	319	94	42	46	*EA1AAE	"	8,865	83	27	17	1	*EA5GTO	"	6,200	48	33	21	8			
*IN3JJ3	"	97,920	321	112	36	5	*PA0FAW	"	110,387	318	96	40	31	*EA1AE	"	8,865	83	27	17	1	*EA5GTO	"	6,200	48	33	21	8			
*IK5RUN	"	96,145	181	93	52	60	*PC1EMR	"	102,684	297	96	42	34	*EA1T1R	28	378,898	858	87	30	52	*EA5GTO	"	6,200	48	33	21	8			
*NDX0D	"	92,259	298	114	36	3	*PA2LP	"	92,925	270	102	42	31	*EA7VJ	"	14,760	78	38	24	10	*EA5GTO	"	6,200	48	33	21	8			
*IZ3XNU	"	89,474	249	84	41	42	*PA3ANN	"	55,676	243	88	30	20	*EA7VJ	"	14,760	78	38	24	10	*EA5GTO	"	6,200	48	33	21	8			
*IK2WFN	"	87,520	217	66	43	51	*PI4A	"	39,432	129	58	40	26	*EA7VJ	"	14,760	78	38	24	10	*EA5GTO	"	6,200	48	33	21	8			
*IN3XWE	"	80,652	268	90	33	20	(*PA1PTX)	"	115,083	315	88	39	44	*EA7VJ	"	14,760	78	38	24	10	(*PA1PTX)	"	14,760	78	38	24	10			
*IV3ZGZ	"	80,364	182	79	48	54	*PA3ANWW	"	36,491	204	59	27	5	*Y03CZW	A	1,719,690	1650	204	73	154	*EA3GBA	"	383,368	858	90	32	51			
*IK2REA	"	69,440	179	73	43	39	*PE4ABS	"	35,750	148	60	27	23	*Y09XC	"	110,445	269	90	45	50	*EA3GBA	"	383,368	858	90	32	51			
*MDX0L	"	65,670	170	101	43	21	*PA3BXR	"	35,409	152	67	27	17	*Y08GE	"	56,028	149	81	48	32	*EA3GBA	"	383,368	858	90	32	51			
*IZ4ZD	"	63,382	171	53	37	44	*PA4EYL	"	31,860	101	74	48	13	*Y03RU	21	257,300	704	79	27	47	*EA3GBA	"	383,368	858	90	32	51			
*IW1FZR	"	60,688	175	55	32	51	*PA6QGB	"	30,804	143	47	25	30	*Y03RU	7	155,610	712	62	17	59	*EA3GBA	"	383,368	858	90	32	51			
*IZ4RWU	"	59,128	174	79	36	35	*PA3EG	"	30,001	151	68	24	8	*Y09CVL	"	137,932	614	166	67	49	*EA3GBA	"	383,368	858	90	32	51			
*IK2WMY	"	58,743	233	72	29	17	*PA1PR	"	24,985	113	43	26	25	*Y05KAI	"	31,506	108	64	38	16	*EA3GBA	"	383,368	858	90	32	51			
*IK2CMC	"	56,743	158	61	37	49	*PA0JHS	"	21,680	111	37	21	22	*Y05KAI	"	31,506	108	64	38	16	*EA3GBA	"	383,368	858	90	32	51			
*O2V2A	"	55,125	150	50	36	61	*PA3GE0	"	17,466	102	54	23	5	*Y02LDU	"	14,454	99	40	20	13	*EA5ET	"	21,754	141	44	15	14			
*IZ3EEV	"	55,074	184	80	38	16	*PA2AW	"	14,016	93	42	20	11	*Y08RFS	"	10,199	91	33	13	1	*EB5JTK	7	14,168	176	38	0	0			
*IW6PWC	"	46,980	126	82	40	23	*PA1AE	"	10,584	68	39	22	11	*Y04UQ	"	8,250	83	29	11	10	*EB3T	7	9,495	112	33	9	3			
*IZ1DXS	"	45,440	147	66	39	23	*PA1CA	"	7,938	54	29	21	13	*Y02IS	28	41,860	175	41	23	28	*EA5DB	"	159,131	550	62	23	14			
*IN3UFW	"	45,030	241	24	27	3	*PA1DML	"	7,938	54	29	21	13	*Y08PA	21	12,243	84	10	8	35	*EF5B	"	79,422	407	52	14	21			
*IK2WYI	"	44,164	170	80	36	34	*PA3AR	"	4,485	25	16	7	4	*Y04RDW	7	103,880	510	58	15	25	*EA5RW	"	10,234	281	64	22	26			
*IW4EFC	"	42,375	125	49	42	34	*PA3ARM	"	3,515	25	16	6	5	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IK6GZM	"	21,432	87	34	26	34	*PA4A	"	21,166	102	54	23	5	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*I21MHY	"	17,313	80	42	28	17	*PA4BB	"	21,166	102	54	23	5	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IK4XOT	"	13,530	112	45	19	2	*PA2AW	"	21,166	102	54	23	5	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IK2RPE	"	12,663	108	40	17	6	*PA1TAX	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IIABT	"	10,812	71	37	25	6	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IW0AFS	"	9,280	54	27	27	10	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*ICB/N3XUG	"	7,995	67	39	15	11	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IZ5BSA	"	7,296	96	40	8	0	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IW2NR1	"	6,552	56	36	19	1	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IN3EQD	"	5,047	46	26	13	10	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IW2JRV	"	4,459	48	27	13	9	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IK3CST	"	3,854	47	32	13	2	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IK2AOO	"	2,613	31	24	14	1	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IZ2CSX	"	2,546	29	13	9	16	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IZ0UIM	"	1,456	26	15	9	4	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
*IZ8FLW	3.5	35,872	304	45	9	5	(*YOB8WW)	"	174,447	412	100	41	48	(*YOB8WW)	"	10,234	281	64	22	26	*EA5RW	"	10,234	281	64	22	26			
Jersey													Poland																	
*MJ5Z	A	2,077,146	1702	247	87	167	(*YOB8WW)	"	1,740,320	1777	251	84	111	109	47	45	45	48	304	174	1,740,320	1777	251	84	111	109	47	45	45	48
Kaliningrad													Latvia																	
*YL9T	A	1,748,320	1777	251	84	111	(*YOB8WW)	"	1,748,320	1777	251	84	111	109	47	45	45	48	304	174	1,748,320	1777	251	84	111	109	47	45	45	48
Netherlands													Lithuania																	
*LY9Y	A	1,736,397	1583	235	86	138	(*YOB8WW)	"	1,736,397	1583	235	86	138	109	47	45	45	48	304	174	1,736,397	1583	235	86	138	109	47	45	45	48
*LY2FN	"	225,565	462	107	40	50	(*YOB8WW)	"	1,736,397	1583	235	86	138	109	47	45	45	48	304</td											

*UR3UK	"	26,208	134	71	25	0	*PY2NY	A	1,550,608	1354	174	66	158	JAOVTK	"	37,157	178	49	17	7	W4XMT	"	365,501	574	145	60	112					
*UT2HM	"	21,630	90	48	33	22	*PP5EJ	"	49,608	158	51	34	27	JH3DMQ	"	31,960	138	43	20	22	N4KG	"	288,019	364	187	77	29					
*UR5KMM	"	16,154	101	48	23	11	*PY3DQ	"	46,900	144	64	37	33	N5UE	"	23,579	144	39	17	17	N8PR/4	"	269,040	386	157	73	74					
*US5E	"	12,851	79	35	18	18	*PY2IO	"	31,191	106	57	35	19	HS8YX	"	16,576	125	36	19	1	K4ADR	"	243,300	398	123	66	111					
*UW1WU	28	2,304	28	14	12	6	*PY2SR	"	24,582	115	49	28	25	W1CSM	"	16,324	108	36	13	4	K4HMB	"	229,804	325	160	71	61					
*UX5HY	"	22,880	120	39	17	24	*PY3OPP	"	10,675	67	22	14	25	HS8FLU	"	6,390	60	26	16	3	ND1Y/4	"	195,525	343	145	54	76					
*US5EY	"	5,307	45	40	17	4	*PP5NS	"	14,421	114	23	16	30	JH1OES	"	3,960	37	23	12	13	AA4DD	"	171,954	301	125	53	55					
*UW3L	21	233,376	620	81	28	47	*PR7AR	"	14	94,185	324	45	15	45	F4EEI	"	5,474	72	21	12	13	K4WI	"	166,405	570	68	22	25				
*UX5HY	"	22,880	120	39	17	24	*PY2HN	"	11,160	83	33	16	13	J4GSA	"	3,916	45	27	10	7	AA4VV	"	152,992	258	134	64	26					
*US5UCC	"	4,510	39	10	10	21	Chile												N4MM	"	288,019	364	187	77	29							
*UU9JO	14	149,606	539	72	28	27	CE3EEA	A	390,705	472	152	70	30	N6HI/7	"	23,579	144	39	17	17	N8PR/4	"	269,040	386	157	73	74					
*UT2EF	"	123,395	503	69	24	22	CE3DNP	"	384,652	923	71	24	53	IK4UXA	"	16,576	125	36	19	1	K4ADR	"	243,300	398	123	66	111					
*US7IS	"	113,338	425	74	27	21	CE1RPW	"	211,475	376	50	19	46	E73TT	"	16,324	108	36	13	4	K4HMB	"	229,804	325	160	71	61					
*US0MM	"	84,762	404	59	22	21	3G3O	"	139,080	431	53	23	46	VE3HLS	"	6,390	60	26	16	3	ND1Y/4	"	195,525	343	145	54	76					
*UT8UL	"	84,360	331	62	22	30	(Op: UR6OS)												J4GSA	"	3,916	45	27	10	7	K4WI	"	166,405	570	68	22	25
*UY2UQ	"	77,250	345	54	23	26	*CE3PG	A	118,746	266	93	37	32	J4TQC	"	1,204	17	17	10	1	AJ4CG	"	139,673	304	100	44	53					
*UR3AC	"	60,606	235	62	27	22	*CA3MRD	"	217,453	365	53	21	45	SP6OKP	"	14	64,974	297	59	22	21	N1OKLJ/4	"	108,035	209	117	54	34				
*UR3UT	"	38,626	185	44	20	25	*CE3RR	"	81,324	275	45	20	43	EA1GFY	"	4,684	88	32	7	0	N4MM	"	288,019	364	187	77	29					
*UW2O	"	30,480	172	48	14	18	*CE3OVE	"	11,466	91	12	11	26	I0HJN	"	5,494	78	29	7	7	W4GHD	"	21,980	267	90	35	20					
*UR5LA	"	4,655	72	27	7	1	*CE7BIY	"	391	12	7	7	3	VU2UR	"	3,960	41	26	10	0	W4BOF	"	97,845	275	73	37	53					
*UX4CR	"	3,596	73	22	7	2	*CE3PCG	"	300	10	6	6	3	K4TWT	"	3,800	48	25	9	6	K4AOA	"	96,886	209	106	54	28					
Wales												(Op: CE3TKV)												K4WY	"	157,480	497	66	24	37		
GW1SKA	A	1,576,978	1538	248	89	126	*PJ2/PD4JOF	A	13,482	74	15	14	34	PD1AW	"	14,672	132	37	14	5	K4AOTB	"	23,040	102	63	27	0					
GW4BLE	"	981,920	1062	163	61	137	*PJ2/KBLEE	A	287,328	1001	64	22	52	DL3DY	"	9,800	101	36	10	3	K4GM	"	21,996	108	42	24	28					
*GW0TKX	A	42,984	180	40	22	39	*HC1JQ	14	30,816	158	42	18	12	40/HG3IPA	7	74,052	561	50	11	7	AB4SF	"	855,868	829	239	89	108					
*GW4MVA	7	89,628	455	60	17	20	Colombia												N1OD	"	4,645,955	790,656	276	234	90	102						
OCEANIA												(Op: CE3TKV)												W4B0MM	"	209,180	267	90	100	165		
VK3TDX	A	1,400,817	1314	197	75	91	*CA3SOC	"	170	7	5	5	0	40/HG3IPA	7	74,052	561	50	11	7	AB4AF	"	855,868	829	239	89	108					
VK2PN	"	30,472	113	45	35	24	*CE1TT	14	30,816	158	42	18	12	40/HG3IPA	7	74,052	561	50	11	7	AB4AF	"	855,868	829	239	89	108					
*VK3FM	A	118,272	244	98	48	30	*PZ5YW	A	88,572	187	119	54	10	Peru	"	63,744	383	52	14	17	N1OD	"	345,605	289	107	52	24					
*VK4BL	"	67,497	170	84	50	15	*PZ9EH	"	38,164	130	44	29	43	KA1JQ	"	58,136	351	55	14	17	N1MD	"	93,208	207	98	51	42					
*VK2CZ	"	468	11	8	7	3	*PZ5RA	21	19,027	388	68	25	44	UX5UU	"	16,324	173	38	7	3	W4B2RH/M4	"	587,324	719	207	79	123					
*VK6MAB	21	16,055	98	42	20	3	Suriname												W4B2RH/M4	"	397,518	501	184	72	61							
9M6XRO	A	1,063,300	1050	195	87	68	Paraguay												G8YTF	"	50,547	303	54	14	15	N1MD	"	151,636	301	110	51	66
East Malaysia												(Op: PY5JB)												K4AOA	"	151,368	295	122	59	10		
French Polynesia												(Op: PY5JB)												K4AOA	"	123,579	246	112	54	41		
Hawaii												(Op: PY5JB)												K4AOA	"	123,579	246	112	54	41		
WH7W	A	469,975	591	118	68	89	*CX9AU	A	508,660	631	129	56	105	Peru	"	69,98	37	9	3	1	N1OD	"	344,955	471	163	69	73					
WH7DX	"	288,847	481	95	68	58	*CX2DK	28	365,700	835	73	25	62	W4EJ	"	108,504	209	117	59	22	N1MD	"	209,180	267	90	100	165					
KH60A	"	17,622	83	29	28	32	*CX1FK	21	12,296	78	38	16	4	W4EJ	"	108,504	209	117	59	22	K1DM	"	93,208	207	98	51	42					
*KH6CJJ	A	157,799	268	72	53	81	*VY5AAK	A	715,968	701	150	59	131	W4EJ	"	108,504	209	117	59	22	K1DM	"	93,208	207	98	51	42					
*KH6OO	"	72,935	185	71	40	34	*VY5AKJ	A	28,340	168	38	21	25	W4EJ	"	108,504	209	117	59	22	K1DM	"	93,208	207	98	51	42					
*KH6GMP	21	61,974	217	42	24	33	*YW5WT	14	525,483	1060	87	30	54	W4EJ	"	108,504	209	117	59	22	K1DM	"	93,208	207	98	51	42					
Indonesia												(Op: YB9WZL)												K4AOA	"	123,579	246	112	54	41		
YB4IR	A	635,250	867	159	59	32	YW2LV	A	2,399,320	1927	203	66	171	W4EJ	"	13,612	68	43	24	7	N1OD	"	1,660,980	471	163	69	73					
*YB8HZ	A	139,272	302	90	52	26	YW2LV	A	2,399,320	1927	203	66	171	W4EJ	"	9,006	52	40	28	11	N1MD	"	344,955	471	163	69	73					
*YB0CO	"	131,768	259	102	55	24	YW2LV	A	2,399,320	1927	203	66	171	W4EJ	"	108,504	209	117	59	22	N1MD	"	344,955	471	163	69	73					
*YE1NZ	"	98,175	213	100	48	17	YW2LV	A	2,399,320	1927	203	66	171	W4EJ	"	108,504	209															

VE3FJB	Canada	1,731,072	1669	214	75	103	*WJ4N	1,274,639	1340	219	86	158	DQ4W	Fed. Rep. of Germany	6,511,834	3554	400	131	215
VE6AO	Mexico	313,664	670	84	33	91	*WN1G/4	75,750	205	80	55	67		Finland	4,304,876	2983	354	110	165
4A1SG	Africa	283,140	511	111	48	101	*W4CDA	19,352	110	48	29	41	OH2ET	France	3,801,723	2770	292	101	200
EF8U	Canary Islands	7,127,736	3625	359	114	223	*WO6X	78,960	254	69	51	90	TM1A	Greece	3,454,024	3032	290	96	132
RC9J	Asia	2,178,939	1978	249	79	71	*KL7JRC	9,699	89	16	9	28	SZ1A	Italy	7,540,729	3996	396	130	237
RF9C	Asiatic Russia	923,884	1005	202	61	63	*VP9I	3,236,751	2126	307	112	200	IO1RY	Liechtenstein	1,158,678	1408	202	66	119
UA0AYA	Mexico	1,715,385	1759	220	66	71	*CO0KEA	9,504	75	32	15	19	HB0/DL2JRM	Luxembourg	8,857,935	4772	399	130	236
A60A	United Arab Emirates	268,821	733	115	38	0	*XE2AU	6,042	49	24	17	12	LX7I	Netherlands	2,585,420	2235	258	95	161
	Europe						*RX9SR	441,760	653	161	54	36	PI4DX	Spain	6,249,126	3554	352	130	227
9A/IQ3VO	Croatia	308,904	579	126	48	70	*JI4UEN	279,450	439	123	55	47	ED1R	OCEANIA	9,242,354	4946	405	132	244
OL3A	Czech Republic	3,893,600	2536	322	112	186	*OK2RVM	635,050	863	185	68	72	EF7R	New Zealand	5,415,476	3534	339	115	214
OK1KSL		3,026,511	2179	280	103	186	*9A7B	47,124	197	90	29	7	EA2AAZ	Aruba	991,248	1328	151	57	113
OK70	England	1,176,604	1031	193	86	163							ZL3X	SOUTH AMERICA	11,640,496	5405	345	129	268
G0BRC	European Russia	1,195,844	1492	205	71	101								MULTI-OPERATOR					
UA4M	England	4,856,456	3156	398	135	159								MULTI-TRANSMITTER					
RK4MI	European Russia	3,510,421	2816	320	105	126								NORTH AMERICA					
RK3DXW	Finland	1,578,864	1545	227	87	130								United States	9,856,890	5497	403	133	238
														NR4M	6,730,932	4410	335	122	219
DR5N	Fed. Rep. of Germany	4,700,358	2631	360	123	206								NI9NI	6,211,492	4276	318	117	244
DP9A		3,863,080	2291	372	124	184								NK7U	5,392,770	3670	334	117	203
DJ6QT		3,134,287	1826	353	129	201								KA4RRU	2,268,000	2033	244	86	170
DK0EE		2,242,632	1549	310	107	171								N2PA	2,236,320	1839	261	91	128
DK7ZT		918,720	924	227	86	127								K4VV					
	Finland																		
OH8A	France	4,690,062	3042	363	123	177													
OH8F		1,612,359	1543	246	85	118													
F8KGH	Hungary	1,545,390	1466	220	84	158													
HG7T	Iceland	4,637,622	2871	313	118	207													
TF2R	Italy	3,545,190	3160	258	82	155													
I4DZ	Netherlands	7,592,534	3702	420	139	243													
IO9EF		791,332	1025	210	72	80													
IO2DN		685,482	707	190	80	129													
PI4Z	Poland	5,291,886	2920	386	131	196													
PI4TUE		1,777,428	1435	257	91	161													
LA1UKA	Norway	5,610	89	24	6	3													
3Z2X	Romania	5,748,429	3388	371	122	198													
SN8N	Scotland	353,056	742	115	48	73													
SP2KPD	Serbia																		
YT7AW	Ukraine	1,593,228	1229	298	112	136													
YT0WFF		433,424	808	156	55	52													
OM3RR	Slovak Republic	1,306,768	1242	186	77	161													
OM5M		598,920	760	150	57	103													
S59T	Slovenia	2,496	29	19	14	6													
EA1FCI	Spain	1,767,475	1663	235	88	152													
EASRCI		303,732	537	151	59	76													
SJ2W	Sweden	5,199,790	2814	392	129	209													
UZ2M	Ukraine	6,807,906	3776	422	137	202													
UT7E		2,296,305	2130	261	95	139													
VK3VT	OCEANIA	436,474	698	135	59	35													
	Australia																		
KH7M	Hawaii	4,120,272	2575	218	102	238													
ZM1A	New Zealand	63,612	216	66	35	13													
	SOUTH AMERICA																		
LU1BJW	Argentina	245,768	366	112	56	80													
	Brazil																		
ZV2K		3,126,312	2264	253	89	162													
	Uruguay																		
CW90A		861,273	1129	121	56	102													
	MULTI-OPERATOR																		
	SINGLE-TRANSMITTER LOW POWER																		
	NORTH AMERICA																		
*N3WZR	United States	405,790	599	161	68	112													

CHECK LOGS

9M6YBG, AA5AT, AA6MK, AA9RR, AIBF, BA4SCP, BG5OA, BG6JJ, BX2ADE, C02CW, C02RVA, CT1EGF, CU5AQ, DF5LM, DG1DUG, DG1RZH, DG7JB, DG8KAD, DH5AQ, DJ5JK, DJ9KQ, DK6AN, DK6NF, DL0ABT, DL1LOA, DL2BV, DL2JIM, DL3ANK, DL3DXF, DL3NSM, DL3ZZA, DL5IAH, DL5JWL, DL6ZXG, DM5DX, E72U, EA1AW, EA1FMD, EA1HRR, EA1KY, EA2DWG, EA2OK, EA3BHK, EA4CWN, EA6BH, EA7TG, G3NYY, G3VOO, G3YOA, G4PKP, G7MJX, GM4UOG, HA1SH, HA2EOA, HA5VZ, HA8X, HA9ERU, HA9PL, HK3W, IC8PSQZ, IK2LRT, IK4UOA, IK6ZDE, I02CJ, ITC9DU, IV3BCA, IZ0KBA, IZ1TRG, IZ4DZD, IZ5MOO, IZ5QOO, JATHOM, JA1MRR, JA3TNF, JG1WNO, JP2MRD, JR2NAK, K0IDT, K0MZM, K4DET, K6CJZ, K7CMR, K7MTR, K7VK, KB3WUC, KB3FVE, KDBHQH, KD8QYN, KD6HO, KD7JRN, KF7PM, KJ6PON, KK7CJ, KK7JS, KM7R, KO4PU, LA4OGA, LU1QAH, LU2VH, LU3DAT, LU6AM, LU6DU, LU6UL, LY3IV, L4T4U, MM2N, N1TA, N1UW, N3FAW, N3UA, N6M2, N8CPA, N8VW, N8VY, ND3, ND3OD5PL, OE6MMF, OH2BF, OH2HPX, OH3GLY, OK1AVV, OK1DMP, OK1IMP, OK2BDH, OK2PC, OK2ZW, OM5NL, ON4BX, OZ2J, P29NO, PA0AWH, PA0FVH, PA0RRA, PA1FNW, PA50, PP6ZZ, PU2TRX, PU4YJS, PY1KK, PY1BAT, R3AT, R6YY, RA0AN, RA1AOB, RA3UT, RA3ZB, RA49AAA, RA49D, RA49MX, RM2T, RT0B, RV3ID, RY7A, RZ3OM, RZ6DX, S51AF, S4NF, SP1MHZ, SP3CCG, SP3IC, SP3UOG, SP4GDC, SP4GL, SP5UAF, SP6UIN, SP8UIN, SP9UIN, SV1GX, UA3AGW, UA3EKK, UA3FX, U436AB, UA4AAG, UN3Z, UN3U, US73MM, US87MM, UT4EW, UW7CN, UW7UW, UW7W, UW7W01, UY5AX, UY5QO, V4TCAB, V47GEM, V44AHZ, V6FLFL, VEL2B, VK5MTM, W0KX, WT1WLV, W2IUC, W2TVT, W5PD, WJ1X, W5I, XE2CO, YB3BX, YB3ZCD, YB6EI, YC1DML, YL2MU, Y07DAA, ZL1BYZ