

2000 IARU HF World Championship Results

Twenty-four hour contests are a rarity in most sports. Nine non-timed innings will usually produce the victor in a baseball game. After completing 18 holes on a golf course, the individual with the lowest score, regardless of time, emerges as winner. Ten frames in bowling will determine the outcome of the contest. Wimbledon crowns a tennis champion when one challenger wins the proper number of untimed sets. A marathon is determined by whichever participant covers the prescribed distance in the shortest period of time.

In sports with clocks, professional basketball runs 48 minutes while football and hockey will determine winners at the 60-minute marks. Only in automobile racing will you find a 24-hour non-stop challenge. The 24 Hours of Le Mans or the 24 Hours of Daytona combine man and his machine in a challenge to see who can go the distance.

The 24-hour challenge of radiosport—known as the IARU HF World Championship—is one of the outstanding events in radio competition. Unlike most sprints or QSO parties, the single operator participant paces himself to last the full length of the contest in order to have the best chance of winning. Unlike the ARRL International DX Contest or CQWW (lasting 48 hours each), the single op in the IARU HF World Championship has only one chance to catch a band when it is hot. Misread a propagation change or miss a band opening, and your chances of winning are greatly diminished. There is never “tomorrow” to make up for the errors of Day 1.

It was perhaps this “all or nothing” atmosphere that made the 2000 IARU HF World Championship—held July 8-9, 2000—one of the most successful IARU contests ever. A record 1898 logs were received for this year’s event—a whopping increase of 16.7% above last year’s previous record participation. This includes the 53 participating stations in the World Radiosport Team Championship 2000—which was held in conjunction with this year’s contest (see sidebar). Including the WRTC participants, this represented over 2800 operators active from single operator, multioperator and national IARU society headquarters stations around the world. Logs from 53 ITU zones were received, as

well as 31 IARU national society headquarters stations, several IARU regional executives and Administrative Council members, and at least 105 DXCC entities.

When looking for Top Ten worldwide scores, you don’t have to venture very far. Europe led the way worldwide with 21 Top Ten finishers, followed by Asia and North

Top World Scores

Mixed Mode	Score	CW Only	Score
EA8/OH2BYS	2,948,148	OH1MM	2,060,580
5X1Z	2,573,868	SP7GIQ	1,965,593
OH1F	2,157,654	OH9W	1,786,428
(OH1MDR, op)		(OH6EI, op)	
DU1/DK3G1	2,088,400	OH0PM	1,758,540
RX1AA	2,069,217	G0IVZ	1,757,700
K3ZO	2,054,140	WX0B	1,754,808
RD3Q	2,029,608	N4AF	1,676,374
(UA3QDX, op)		RZ3AZ	1,654,038
UA4HTT	1,993,977	RM6A	1,586,250
UA9CLB	1,921,725	(RA6CM, op)	
UA9CDV	1,910,420	W1WEF	1,574,986

Multioperator

Phone Only	Score	Call	Score
CT3BX	3,047,384	P3A	5,269,336
4X1M	2,697,400	HG6N	3,819,315
PY2KC	2,027,851	UU5J	2,800,820
T99W	1,679,750	RF9C	2,781,816
W9RE	1,658,038	UP0L	2,709,510
K5TR	1,629,024	UZ7U	2,376,085
(at W5KFT)		UN4L	2,352,900
WB9Z	1,609,968	9AY2K	2,219,966
RA4HTX	1,575,658	SK3W	2,211,168
R3K	1,535,338	ZX5J	2,082,307
(RX3DCX, op)			
LX1NO	1,500,096		

WRTC Participants

The Third World Radiosport Team Championship was held concurrently with the 2000 IARU HF World Championship. The complete results of WRTC-2000 may be found in the October 2000 issue of *QST* or on-line at www.qsl.net/s57aw/wrtc/results.htm.

The following is a complete list of call signs used by WRTC participants during the 2000 IARU HF World Championship, along with the callsigns of the operators at each station. WRTC logs were included in the log checking process for this contest, but scores are not reported in the results.

Call Used	Operators	Call Used	Operators
S511E	DL6FBL, DL1MF1	S544Z	Y1AD, YU7NU
S512T	LY3BA, LY2BM	S546Q	K4UEE, N6IG
S513A	JA8RWU, JH4RHF	S547B	SP8NR, SP9HWN
S514U	JM1CAX, JO1RUR	S548X	UT5UGR, UU2JZ
S516M	EA7GTF, EA7KW	S549L	RZ9UA, UA3DPX
S517W	DL1IAO, DL2MEH	S561C	VE3BMV, VE3KZ
S518N	K6LA, K5ZD	S562P	IK2QE1, I2VXJ
S519I	KQ2M, W7WA	S563X	N3AD, N3BB
S521H	VE7SV, VA7RR	S564Q	VK4EMM, VK4XY
S522R	LW9EUJ, LU7DW	S566Z	K9ZO, K7BV
S523W	UT4UZ, RW1AC	S567F	EA3NY, EA3KU
S524G	LY1DS, LY4AA	S568Y	G3SXW, G4BUO
S526O	K8NZ, W2GD	S571W	K3NA, N6TV
S527K	JH4NMT, JK3GAD	S572L	ZS6EZ, ZS4TX
S528D	OM3BH, OM3GI	S573O	9A9A, 9A3GW
S529A	5B4WN, 5B4LP	S574V	K9TM, N2IC
S531R	K1ZM, N2NT	S576K	I5NSR, I5JHW
S532N	PP5JR, PY2NY	S577V	UA9BA, RN9AO
S533G	DL6RAI, OE2VEL	S578R	PY5CC, PY1KN
S534J	K4BAI, K6LL	S581I	VE7ZO, VE3EJ
S536P	HA3OV, HA3NU	S582A	K1DG, K1AR
S537L	OH1EH, OH1NOA	S583D	DL2CC, DL5XL
S538F	S50U, S51TA	S584M	K1TO, N5TJ
S539D	ON4WW, ON6TT	S586U	OK1QM, OL5Y
S541F	S59A, S58A	S587N	RA3AUU, RV1AW
S542B	9A3A, 9A2AJ	S588S	WC4E, WOUA
S543C	F6BEE, F6FGZ		

Top W/VE Scores

Mixed Mode	Score	CW Only	Score
K3ZO	2,054,140	WX0B	1,754,808
N2NU	1,810,524	(W4PA, op)	
N2BA	1,737,883	N4AF	1,676,374
NT1N	1,695,864	W1WEF	1,574,986
N9AG	1,464,580	N6MJ	1,519,755
W4MYA	1,328,739	(at W6KP)	
K4AB	1,263,924	K5GN	1,515,594
W5WMU	1,241,723	W7RM	1,454,336
N2RM	1,201,478	(W4AN, op)	
VE3AT	1,058,200	K2UA	1,392,494

Phone Only

Call	Score	Multioperator	Call	Score	
W9RE	1,658,038	K5TR	1,629,024	(at W5KFT)	
WB9Z	1,609,968	P3A	5,269,336	KH7R	1,757,154
VE1JX	1,121,586	HG6N	3,819,315	K5NZ	1,460,592
(K6HNZ, op)		UU5J	2,800,820	K8CC	1,433,712
KK1L	730,448	RF9C	2,781,816	K5MR	1,417,955
(at WJ1Z)		UP0L	2,709,510	W4MR	1,240,304
N4UH	597,618	UZ7U	2,376,085	NO9Z	1,210,941
WS1A	590,004	UN4L	2,352,900	W6XR	1,159,038
WF3J	572,010	9AY2K	2,219,966	W6EEN	1,125,927
(UA6AN, op)		SK3W	2,211,168	WC4I	532,000
WC4I	532,000	ZX5J	2,082,307	N3ME	986,752
W0ETC	511,173				

IARU Regional Executives and Administrative Council Members

Call	Score	QSOs	Multipliers
W6ROD	2,091,408	2894	187
(W7EW, K6AW, N6TR, ops)			
PA0LOU	364,854	740	147
HC2EE	132,048	364	84
W4RA	100,392	304	89
PT2HF	69,784	209	88
SP5FM	4,728	77	24

America with seven each, Africa with three and South America with two. Even with over 100 of the world's top contestants participating in WRTC, the level of competition did not drop off. While no overall worldwide scoring records fell during the contest, exciting single operator battles were seen across the categories.

Leading the way in the Single Operator mixed mode category was Mauri, EA8/OH2BYS, who held off a strong challenge from Mats, 5X1Z. While Mats won the QSO total—2920 to 2500—Mauri's 252 to 186 multiplier advantage was able to win the day, as both posted nearly identical points per QSO marks (4.74 for Mats and 4.68 for Mauri). Hernani, CT3BX, was able to win both the QSO and multiplier battle to edge Serge, 4X1IM, in the Single Operator Phone Only category – 3,047,384 to 2,697,400. In the Single Operator CW Only category Pasi, OH1MM's, 2264 QSOs and 244 multipliers (for a score of 2,060,580) edged out Sobon, SP7GIQ's, final total of 1,965,593 on 2286 QSOs and 227 multipliers. In the Multioperator category, the operators at P3A were able to work fast and steady rates and win handily over HG6N by a score of 5,269,336 to 3,819,315. Congratulations to all of the worldwide Top Ten leaders.

Outstanding competitive efforts were also seen among the US and Canadian participants. Leading the way was a very tight three-way race in the Single Operator Phone Only category. In the end Mike, W9RE, emerged victorious over George, K5TR (operating at W5KFT), and Jerry, WB9Z. Only 48,340 points separated these three top contestants—1,658,038 for W9RE, 1,629,024 for K5TR and 1,609,968 for WB9Z. The difference in this one was the points-per-QSO (PPQ) average. George worked the most QSOs and multipliers, but was defeated in the end by Mike's PPQ average of 3.85 to George's 3.52. Jerry's 2104 QSOs netted a PPQ average of 3.75, which allowed him to remain close. Those five-point QSOs can make a difference. Mike's winning score also is the only new W/VE category record set during the Championship in 2000.

The W/VE Single Operator CW-Only category also was witness to a close race, as Scott, W4PA, operating WX0B was able to beat out Howie, N4AF, by a score of 1,754,808 to 1,676,374. Well-known con-

IARU Headquarters Stations

	Scores	QSOs	Multipliers
DA0HQ (DF8XC, DG0HD, DG0OKE, DG1BDF, DH7WW, DJ7AA, DK1BT, DK3WW, DK4WA, DK7YY, DK8YY, DL1AOB, DL1AOQ, DL1ASA, DL1AUZ, DL1AWI, DL1DTL, DL1VDL, DL2OAP, DL2OBF, DL2OE, DL2SAX, DL3ABL, DL3ALI, DL3APO, DL3DXX, DL3OI, DL3TD, DL4ALB, DL4ALI, DL4JS, DL4MM, DL5ANT, DL5AOJ, DL5AOL, DL5AWI, DL5AXX, DL5LYM, DL5XU, DL5YY, DL6MHW, DL6MYL, DL7AU, DL7BY, DL7IO, DL7IQ, DL7UBA, DL7URH, DL7UTM, DL7VOA, DL7VRO, DL7ZZ, DL8AKA, DL8ALU, DL8AUA, DL8DYL, DL8WAA, DL9AWI, DL9DRA, ops)	18,987,007	19831	409
EM0HQ (UA9KS, UR3MP, UR5EAW, UR5ECW, UR5EDU, UR5EDX, UR5EFJ, UR5IFB, UR5IOK, UR6IM, UR7EU, UR9IDX, US1ITU, US1MM, US2IM, US2IR, US7IM, US7MM, UT0ZZ, UT2IJ, UT2IY, UT2UB, UT3IZ, UT3UZ, UT5HP, UT5MB, UT5MG, UT5UIA, UT7EC, UU0JM, UU4JGR, UU4JMG, UU6JM, UU8JK, UX1MM, UX2MF, UX2MM, UX5MZ, UX6MM, UX7MA, UX7MM, UX8MM, UX0MM, UY6IM, UY8IF, ops)	18,215,157	14919	393
R3SRR/2 (DK4VW, DK8LV, EU1MM, RA2FA, RA2FBC, RA2FCI, RA2FO, RA2FW, RA4LW, RK3BY, RN1AM, RN2FA, RN3OO, RN3QQ, RU4HP, RV2FW, RV3BA, RW4WO, RW4WR, RX3APM, RZ3FA, UA0QMU, UA1OMS, UA2BD, UA2FAM, UA2FB, UA2FC, UA2FF, UA2FJ, UA2FM, UA2FP, UA2FX, UA3ASZ, UA4LU, UA4RC, UA6LV, ops)	16,569,632	13025	382
PA6HQ (PA4MM, PA3ALK, PB0AIU, PA3BAG, PA4LA, PA5TT, PA0ABM, PB7CW, PE9DX, PA3EWP, PA5ET, PA3CAL, PA3FQA, PA4EA, PA7FM, PA5GV, PA4WM, PA3GCV, PE1HWO, PA3HBB, PA3EZL, PA3FD0, PA5NT, PA7BT, PA5ZZ, PA1AW, ops)	14,209,200	11366	360
400HQ (YU1JW, YU1KX, YU1NW, YU1UH, YU1ZZ, YT1BB, YU7AC, YU7AV, YU7BW, YU7CB, YU7CM, YU7GO, YU7GW, YU7JX, YU7KW, YU7NW, YU7WA, YU7YG, YT7KF, YT7TY, YZ7AA, YZ7DM, 4N7CA, 4N7DW, 4N7TW, 4N7ZZ, ops)	13,507,739	12551	371
SN0HQ (SP2FAX, SP2FWC, SP2WKB, SP3GEM, SP3HRN, SP3RBI, SP3RBR, SP4EEZ, SP5GRM, SP5INQ, SP6AYP, SP6AZT, SP6ECA, SP9ERV, SP9EWQ, SP9LJD, SP9NLK, SP9QMP, SP9WZJ, SP9XCN, ops)	13,074,304	11204	368
OM0HQ (OM1KM, OM2RA, OM2KW, OM2FY, OM2ZZ, OM3GB, OM3RM, OM3LU, OM3EA, OM3NA, OM5DX, OM5RW, OM5ZW, OM5RM, OM5DP, OM5TX, OM7JG, OM8AM, OM8AU, ops)	12,437,172	11741	361
W1AW/4 (AE4SW, AJ4Y, K4EL, K4LM, K4LQ, K4OJ, K4PG, K4XS, KD4UJK, KR4YL, KT3T, N3NN, N4BP, N4DL, N4KM, N4OX, N4PN, N4QV, N4TO, N4UF, N8PR, NA4AR, NA4CW, NU4Y, W1CW, W1YL, W4IR, W4SO, W4ZW, WA4B, WA4IMC, WD4AHZ)	10,720,370	11121	323
YR0HQ (YO2BEB, YO3APJ, YO3CDN, YO3FRI, YO3FWC, YO3GDA, YO3GJC, YO3GOD, YO3JJ, YO3ND, YO4AB, YO4ATW, YO4HW, YO4NF, YO5AJR, YO5BJW, YO5BLA, YO5TE, YO6AWR, YO6FWM, YO8AXP, YO8BPK, YO8CQQ, YO8DDP, YO8WW, YO9FJW, YO9GZU, YO9IGI, ops)	10,016,502	10401	347
NU1AW (KI1G, WF1B, NB1B, N1RR, WM1K, KM1P, KB1H, NB1U, K1EBY, N1XS, KE1LI, KB1DFB, AA1CE, LU9AY, W1RM, ops)	9,322,316	8545	316
SK9HQ (SM5AQD, SM0DRD, SM2EZT, SM0GYX, SM5HJZ, SM0JHF, SM0JSM, SM0KCO, SM0MXO, SM0TQX, SM7TZK, SM0WKA, DJ1YFK, ops)	8,817,970	7864	322
EW5HQ (EU1AZ, EU1CL, EU1FC, EU1SA, EU1UN, EW1NY, EW2AA, EW2ZB, EW6WF, ops)	8,234,562	7756	323
IU2HQ (I2MQP, IK2HKT, IK2CIO, IK2AHB, I2IFT, I2CZQ, IK2GSN, IK2GZU, IK2SAU, IK2NCJ, IK2JUB, I2OKW, ops)	7,183,110	7898	330
ER7HQ (ER1BF, ER1FF, ER1LW, ER3CW, ER4DX, ER5AA, ER5AL, ER5AL, ER5DX, ER5OK, UT7ND, UR5NMM, ops)	6,381,609	6521	307
GB5HQ (+GB3RS, GB4HQ) (G4JVG, G4EOF, GM3WOJ, GM4CXM, GM0CLN, GM0NAI, MM0CCC, ops)	5,658,953	6267	269
OH3X (OH3ES, OH3LQK, OH3RM, OH3RR, OH3WW, OH3XR, ops)	3,970,048	4687	256
S50ZRS (K1CC, N4GN, N5ZQ, OH2BH, OK2PAY, S51UE, S52CW, S52GP, S53XX, S57GM, S57KM, S57XX, S58J, S58MU, S59ZZ, S51TE, S51UJ, S52RO, S57MWJ, ops)	3,922,310	5163	274
T90HQ (T94YT, T94DO, T95DXT, T94NR, T95MEQ, T95MEH, T94TX, T97C, T99Z, T94OL, T94NO, T98R, T95MOJ, T94CW, T92D, T92PGY, T92SOU, T94KU, T95, T95DOA, T95LQG, T94EX, T94GG, T94MZ, T94LW, T94ZZ, T99P, T94J, ops)	3,914,350	5755	275
3A2K (3A2AH, 3A2CR, 3A2LF, 3A2MS, 3A2MW, OH2BC, OH2TA, OH9MM, ops)	2,069,704	3460	182
9V9HQ (9V1YC, 9V1BH, ops)	1,906,529	2664	179
J39HQ (AC8G, W8UE, ops)	1,557,044	2365	194
T77C (T77C, N6TJ, CT1BOH, ops)	1,361,673	2588	171
VE7RAC (at VE7SV) (VA7NT, VA7AM, VE7CA, VA7TT, VE7AGG, VE7MKA, ops)	1,256,736	2226	159
LX0HQ (LX1KQ, DL4FCH, LX1MG, DL3FCP, ops)	1,256,577	2244	159
OE2S (OE2GEN, OE2MON, OE2LCM, ops)	673,792	1838	112
OE1XHQ (+OE2S, OE6Z) (OE1EMS, OE1SZW, OE2GEN, OE2LCM, OE2MON, OE6HZG, OE6MBG, ops)	464,970	1854	110
LY1RMD (LY2BLQ, op)	272,840	605	152
DX1HQ (DU1SAN, DU1MS, RK3DT, DU1QNT, DU1IHU, DU1BP, DU3SV, ops)	265,115	696	85
HP0HQ (HP1AC, op)	111,132	325	81
LZ8NFF (LZ1OF, op)	15,088	120	46

tester Fred, K3ZO, rounded out the Single Operator W/VE winners by taking the Mixed Mode category by a score of 2,054,140 to 1,810,524 over John, N2NU. The final W/VE Championship honors go to the multioperator crew at KH7R, who used their offshore locale to outscore the K5NZ operators 1,757,154 to 1,460,592.

Unique to this Championship are the IARU Society Headquarters Stations. While they only count one point per QSO, they do count as a special multiplier. Thirty-one entries were received from HQ stations. Leading the way once again was the DARC submission from DA0HQ, which posted an all-time high HQ score

of 18,897,007. Also of note were the dedicated UARL operators at EM0HQ, who also bettered the old HQ record.

The IARU HF World Championship offers contestants a unique event that continues to display its popularity. The shorter duration of the event allows even the casual contesteer a chance to put up a competitive effort while challenging their operating skills. While skill and durability are key components, it doesn't require a Herculean marathon effort to participate for the full 24 hours of the event.

The 2001 IARU HF World Championship will be contested this coming July 14-15. Remember that electronically generated

Scores

Scores are listed by ITU Zone, and then by country, ARRL Section, or Canadian Province with the zone. Line Scores indicate call, final score, QSO total, Multiplier total, and entry class (A = Single Operator Mixed Mode, B = Single Operator Phone Only, C = Single Operator CW Only, D = Multioperator Single Transmitter)

Zone 1	Alaska	N6MJ (at W6KP)	N7WA (+W7CAJ,W7/JR1NKN)	Wisconsin	KR1B	37,544	198	76	
WL7CMK	86,028	354	67	B	KB9JIF	64,640	264	B	
KL7FAP	1,152	24	16	B					
		1,519,755	1872	213 C	WOTM	978,462	1488	A	
		N6BM	299,835	671	135 C	KG0ZI	337,900	862	B
		W6EEN (+K6XC,N6RT)	1,125,927	1561	187 D	K9MMW	204,549	447	C
					KC5LDC	570	19	D	
					KM5G	391,748	854	B	
					Louisiana	171	99	C	
					W5WMMU	1,241,723	1863	A	
					KZ5D	1,040,026	1641	181	B
					W5WZ	72,890	299	74	C
					N5IX	22,152	121	52	B
					W5CTV	5,460	57	30	C
					K5MC	254,898	589	126	B
					Mississippi	104,067	299	93	B
					K5EK	1,241,723	1863	179	A
					K6AM	1,040,026	1641	181	B
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					K6AM	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WMMU	1,241,723	1863	179	A
					K6AT	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WZ	72,890	299	74	A
					N5IX	22,152	121	52	B
					W5CTV	5,460	57	30	C
					K5MC	254,898	589	126	B
					Mississippi	104,067	299	93	B
					K5EK	1,241,723	1863	179	A
					K6AM	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WMMU	1,241,723	1863	179	A
					K6AT	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WZ	72,890	299	74	A
					N5IX	22,152	121	52	B
					W5CTV	5,460	57	30	C
					K5MC	254,898	589	126	B
					Mississippi	104,067	299	93	B
					K5EK	1,241,723	1863	179	A
					K6AM	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WMMU	1,241,723	1863	179	A
					K6AT	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WZ	72,890	299	74	A
					N5IX	22,152	121	52	B
					W5CTV	5,460	57	30	C
					K5MC	254,898	589	126	B
					Mississippi	104,067	299	93	B
					K5EK	1,241,723	1863	179	A
					K6AM	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WMMU	1,241,723	1863	179	A
					K6AT	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WZ	72,890	299	74	A
					N5IX	22,152	121	52	B
					W5CTV	5,460	57	30	C
					K5MC	254,898	589	126	B
					Mississippi	104,067	299	93	B
					K5EK	1,241,723	1863	179	A
					K6AM	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WMMU	1,241,723	1863	179	A
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					K6AV	72,890	299	74	C
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					W5WZ	72,890	299	74	A
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					K6AT	1,040,026	1641	181	B
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					N5IX	22,152	121	52	B
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					K6AM	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WMMU	1,241,723	1863	179	A
					K6AT	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WZ	72,890	299	74	A
					N5IX	22,152	121	52	B
					W5CTV	5,460	57	30	C
					K5MC	254,898	589	126	B
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					K5EK	1,241,723	1863	179	A
					K6AM	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WMMU	1,241,723	1863	179	A
					K6AT	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WZ	72,890	299	74	A
					N5IX	22,152	121	52	B
					W5CTV	5,460	57	30	C
					K5MC	254,898	589	126	B
					Mississippi	104,067	299	93	B
					K5EK	1,241,723	1863	179	A
					K6AM	1,040,026	1641	181	B
					K6AV	72,890	299	74	C
					W5WMMU	1,241,723	1863	179	A
					K6AT	1,040,026			

ated entries must be submitted in the required Cabrillo file format within 30 days after the end of the contest. Full rules for this year's contest will be found in the April issue of *QST* or online at www.iaru.org/contest.html after mid-March.

The time to start planning to participate in this year's premier radiosport event is now. You may not be able to run the Boston Marathon, compete in the World Cup for Brazil or drive in the 24 Hours of Le Mans. But any licensed Amateur Radio operator can test their skills and challenge themselves in the best challenge of their hobby: radiosport. See you on the air in July!

W3 Delaware	KF3BT 1,218 32 21 A	W4UM 11,154 94 33 A	Virgin Islands	NP2DJ 25,355 146 55 B	Zone 18 Norway	F5NBX 475,867 947 157 A	
Eastern Pennsylvania	KB3TS 269,000 592 125 A K3PP 104,475 301 105 A W2TN 298,155 659 139 B KB3CRG 8,224 87 32 B AA3B 1,248,156 175 189 C W3BGN 176,770 429 110 C N3NZ 5,434 63 26 C	W5 Mississippi KB5FET 64,452 209 82 B KF5AU 53,840 188 80 B AC5SU 71,617 312 91 C	WP2DJ (AG8L, op) 1,448,735 1841 205 C	LA2IR 80,100 250 90 B LA2EIA 29,610 167 63 B LA9VBA 8,220 71 30 B LA2HFA 132,940 352 115 C LA5TFA 53,550 228 90 C	LA2IR 80,100 250 90 B LA2EIA 29,610 167 63 B LA9VBA 8,220 71 30 B LA2HFA 132,940 352 115 C LA5TFA 53,550 228 90 C	F5RAB 128,511 354 131 A F6FTB 56,064 241 64 A F5NYK 10,530 95 26 A F5NZO 598,675 1028 175 B F8CIO 436,221 767 171 B F5BBB 221,394 595 91 B F5JBR 499,677 755 193 C F5ROX 126,334 450 86 C F6GQO 116,710 326 110 C	
Maryland-DC	K2ZO 2,054,140 2301 220 A W3UJ 174,720 438 120 A K3TW 20,196 152 51 A K3SA 14,973 141 23 A N3HBX 508,128 1131 125 B WZ3AR 337,428 631 156 A K3GV 138,738 334 114 B AJ3M 85,932 431 77 B K2PLF 579,864 1030 148 C N3NT 375,947 732 143 C W3CP 121,873 304 107 C NY3M 120,350 438 83 C W3PQE 1,957 34 19 C	W8 Michigan K8GT 231,336 540 126 A NU8Z 134,394 498 78 A N8NX 109,074 345 98 A KC8FXR 38,160 266 53 A KC8BQO 79,776 246 96 B K8BQO 1,639 69 11 B K8JMP 290,952 789 108 C KT8X 67,620 366 46 C K8IR 61,067 201 79 C K8CV 52,500 220 84 C K8BPGW 24,232 185 52 C N2Z0 (W8MJ, op)	WP2Z (AG8L, op) 1,448,735 1841 205 C	WP4LNY 113,634 504 59 A KP4KOE 2,548 49 14 B KP4/K2OVS 1,218 21 14 B	OH0V (OH6L1, op) 405,283 1534 67 A OH0PM 1,758,540 2018 237 C	OH0V (OH6L1, op) 405,283 1534 67 A OH0PM 1,758,540 2018 237 C	F5JBR 499,677 755 193 C F5ROX 126,334 450 86 C F6GQO 116,710 326 110 C
Western Pennsylvania	N3GJ 216,600 483 114 A AD8J 94,924 348 76 A AA3LX 75,287 274 79 A N3YE4 7,650 88 30 B WB0IWG 1,034 44 11 B KA3S 261,096 594 129 C	W9 Ohio N9AG 1,464,580 1810 215 A W8AV (+K4LT,K8AJ8) 99,972 1711 151 A	VP2V 95,612 618 44 B	VP5O (RA9CO, op) 1,653,964 1873 221 A	OH1F (OH1MDR, op) 2,157,654 2275 258 A	OH2BLF 196,470 501 111 A OH8CW 155,880 461 120 A OH2RA 1,160,123 1507 193 B HK3JJH 271,278 924 63 B	F5JBR 499,677 755 193 C F5ROX 126,334 450 86 C F6GQO 116,710 326 110 C
W4 Alabama	K4AB 1,263,924 2020 188 A KU4BL 69,255 273 81 B KT4XA 10,175 83 37 C W4NTI 124,836 408 103 C KS4YT (+KV4T) 329,554 932 106 D	W9 Argentina N8BQJ 630,420 117 158 A W8VE 140,250 451 110 A K8ZT 11,232 107 39 A K8CHHW 19,768 118 56 B N8KM 19,400 102 50 B N8WEI 12,720 72 48 B K8BANW 4,536 50 27 B WB4JMO 4,264 64 26 B W8KNO 570 19 10 B W8GN 696,784 1251 148 C KU8E 401,520 913 140 C N8AGU 101,084 364 74 C WT8P 58,254 333 73 C W8IDM 29,380 126 65 C AA8LL (+packet) 124,344 400 88 D	LU5VV 1,003,054 1265 173 B LU1UM 435,768 748 134 B	YV2FEQ 24,705 187 27 B YV7QP 64,952 212 92 C	OH6XY 1,053,990 1616 210 C OH6NJ 987,528 175 184 C OH2FS 101,016 281 92 C OH2YL 24,388 114 67 C OH1UP 19,323 112 57 C OH3TZ 18,972 97 68 C	OH2BLF 196,470 501 111 A OH8CW 155,880 461 120 A OH2RA 1,160,123 1507 193 B HK3JJH 271,278 924 63 B	G4IIY 279,456 509 164 A GOMTN 211,050 574 194 A G3UFY 82,960 271 122 A G4BJM 54,693 328 59 A G0DVJ 17,646 124 51 A GONWY 45,648 206 72 B
Georgia	K4OGG 73,950 316 58 A WA4TII 453,468 798 159 B NJBU 1,513 28 11 B N4DU 341,700 782 134 C	W9 West Virginia K5II 379,093 835 143 A KV3R 219,510 472 135 B K8OQL 250,428 654 123 C KG8GW 64,240 339 80 C	PS7AS 164,027 402 89 B PS7HF 114,696 406 72 B PP7ZZ 53,920 185 80 B PT2ND 29,859 189 37 B P2R2G 28,600 197 55 B PS8NF 23,052 121 51 B PR7AN 13,760 100 43 B PR7FM 1,760 100 43 B PR7AR 9,920 80 32 B PR7BM 6,860 59 35 B PR7SD 1,029 23 21 B PR7QI 512 19 16 B PS8ET 220 12 11 B PX2W 117,868 338 79 C PY2NDX 315 315 56 C PY7ILM 35,673 145 69 C PP7CI 28,458 119 54 C PY2ECP (+PU2NVY) 86,805 440 45 D	SM6WQB 272,573 569 161 A SM7BJW 107,565 309 101 A SM6DER 91,044 329 81 A SS5A (SM5AJV, op)	SM6WQB 272,573 569 161 A SM7BJW 107,565 309 101 A SM6DER 91,044 329 81 A SS5A (SM5AJV, op)	G3YEC 124,267 333 121 C G3MPB 74,880 267 90 C G4FDC 5,814 62 51 C M4R (G4AXX,G4KNO,G4EAG,M0DXR, ops)	G4IIY 279,456 509 164 A GOMTN 211,050 574 194 A G3UFY 82,960 271 122 A G4BJM 54,693 328 59 A G0DVJ 17,646 124 51 A GONWY 45,648 206 72 B
Kentucky	K4IU 266,465 635 137 A WC4I 532,000 1195 125 C W4LC 82,560 253 86 B KN4IV 23,562 140 42 C K4AO 460,551 1006 147 C KG4BG 45,954 289 69 C N4XM 4,200 269 69 C N4OKX (at N4GN) (T0,NO9,WF4N,DXM) 657,760 1209 160 D	W9 Illinois K9PG 262,680 655 132 A W9LYA 92,718 361 102 A K9GN 1,260 87 3 A W9BZ 1,609,968 2104 204 B K9YU 108,339 403 77 B K9BUWU 62,920 396 65 B W9LYN 46,580 152 85 B W9WHL 17,702 100 53 B K9QVB 497,078 1096 127 C K9V3R 219,510 472 135 B K8OQL 250,428 654 123 C KG8GW 64,240 339 80 C	PS7AS 164,027 402 89 B PS7HF 114,696 406 72 B PP7ZZ 53,920 185 80 B PT2ND 29,859 189 37 B P2R2G 28,600 197 55 B PS8NF 23,052 121 51 B PR7AN 13,760 100 43 B PR7FM 1,760 100 43 B PR7AR 9,920 80 32 B PR7BM 6,860 59 35 B PR7SD 1,029 23 21 B PR7QI 512 19 16 B PS8ET 220 12 11 B PX2W 117,868 338 79 C PY2NDX 315 315 56 C PY7ILM 35,673 145 69 C PP7CI 28,458 119 54 C PY2ECP (+PU2NVY) 86,805 440 45 D	SM6WQB 272,573 569 161 A SM7BJW 107,565 309 101 A SM6DER 91,044 329 81 A SS5A (SM5AJV, op)	SM6WQB 272,573 569 161 A SM7BJW 107,565 309 101 A SM6DER 91,044 329 81 A SS5A (SM5AJV, op)	G3YEC 124,267 333 121 C G3MPB 74,880 267 90 C G4FDC 5,814 62 51 C M4R (G4AXX,G4KNO,G4EAG,M0DXR, ops)	G3YEC 124,267 333 121 C G3MPB 74,880 267 90 C G4FDC 5,814 62 51 C M4R (G4AXX,G4KNO,G4EAG,M0DXR, ops)
North Carolina	K54XG 717,760 1312 160 A N4UH 597,618 1226 126 B W4YDY 77,074 267 89 B K4F4RD 59,850 207 90 B K4TCM 27,378 129 54 B K4F4VMT 14,996 97 46 C N4AF 1,676,374 2103 203 C N4CW 654,826 128 139 C WJ9B 167,266 513 101 C W4MR (AA4NC,K17WX,K4HA, ops) 1,240,304 1887 178 D	W9 Uruguay K5II 379,093 835 143 A KV3R 219,510 472 135 B K8OQL 250,428 654 123 C KG8GW 64,240 339 80 C	CA9XU 328,160 642 112 C CX3CY 4,608 109 9 C	SM6BSK 303,208 579 151 C SM3X (SM3CVM, op) 235,704 650 122 C 7S5Q (SM5SCOP, op) 234,936 658 117 C	SM6BSK 303,208 579 151 C SM3X (SM3CVM, op) 235,704 650 122 C 7S5Q (SM5SCOP, op) 234,936 658 117 C	SM6WQB 272,573 569 161 A SM7BJW 107,565 309 101 A SM6DER 91,044 329 81 A SS5A (SM5AJV, op)	SM6WQB 272,573 569 161 A SM7BJW 107,565 309 101 A SM6DER 91,044 329 81 A SS5A (SM5AJV, op)
Northern Florida	KB4N 9,669 94 33 A N4EK 134,640 554 85 B KE4SCY 50,052 170 86 B W4UEA 42,486 182 73 B WB4IHI 32,136 133 78 C	W9 Argentina K5II 379,093 835 143 A KV3R 219,510 472 135 B K8OQL 250,428 654 123 C KG8GW 64,240 339 80 C	LU4FM (LU4FPZ, op) 1,488,256 1867 176 A LU1FNH 389,174 764 119 A LU5ER 16,960 97 53 A LU1NDC 1,353,885 1846 159 B AY0N 964,782 1152 186 B LU4DX 455,847 710 147 B LU6FF 398,160 764 120 B LU5FB (LU1FKR, op) 165,292 467 86 B	SKGHD (SM6FKF, op) 1,488,256 1867 176 A LU1FNH 389,174 764 119 A LU5ER 16,960 97 53 A LU1NDC 1,353,885 1846 159 B AY0N 964,782 1152 186 B SM3SX 76,533 266 97 C SM3OCCE 69,093 228 81 C SK3W (SM3WMV,SM3SGP,SM5XT, ops) 2,211,168 2216 248 D	SKGHD (SM6FKF, op) 1,488,256 1867 176 A LU1FNH 389,174 764 119 A LU5ER 16,960 97 53 A LU1NDC 1,353,885 1846 159 B AY0N 964,782 1152 186 B SM3SX 76,533 266 97 C SM3OCCE 69,093 228 81 C SK3W (SM3WMV,SM3SGP,SM5XT, ops) 2,211,168 2216 248 D	ON4CAS 403,856 720 172 A ON4KMB 57,665 239 95 A OT0X 1,381,800 1729 210 B ON4BCJ 941,216 1781 134 B ON5GO 412,112 699 172 B ON4ANN 252,300 556 145 B ON4CHK 13,320 101 40 B ON5UM 335,823 636 157 C ON4XG 205,960 421 152 C ON6TJ 124,432 348 112 C ON7CC 97,356 314 114 C ON7SS 5,124 58 42 C	ON4CAS 403,856 720 172 A ON4KMB 57,665 239 95 A OT0X 1,381,800 1729 210 B ON4BCJ 941,216 1781 134 B ON5GO 412,112 699 172 B ON4ANN 252,300 556 145 B ON4CHK 13,320 101 40 B ON5UM 335,823 636 157 C ON4XG 205,960 421 152 C ON6TJ 124,432 348 112 C ON7CC 97,356 314 114 C ON7SS 5,124 58 42 C
Southern Florida	K4BN 9,669 94 33 A N4EK 134,640 554 85 B KE4SCY 50,052 170 86 B W4UEA 42,486 182 73 B WB4IHI 32,136 133 78 C	W9 Wisconsin K4AT (at W9UR) (+K4WW,KC4WQ,W9UR) 424,980 1051 135 D	LU1NAF 119,658 613 42 B LO7H 106,875 508 45 B	LP2F (LU2FT, op) 1,479,762 262 62 B	LP2F (LU2FT, op) 1,479,762 262 62 B	P43E 1,479,762 262 62 B	
South Carolina	K8MR 55,388 276 61 A W2JJC 385,203 1037 119 B	W9 Wisconsin K4AT (at W9UR) (+K4WW,KC4WQ,W9UR) 424,980 1051 135 D	LU1BJW (+LU1AE) 103,600 316 80 D	LU1BJW (+LU1AE) 103,600 316 80 D	LU1BJW (+LU1AE) 103,600 316 80 D	P43E 1,479,762 262 62 B	
Southern Florida	W4SA 92,700 356 90 A W1ENZ 23,598 135 46 A KA3MTO 20,252 116 61 B KD4LIV 424 15 8 B K1PT 578,187 1031 153 C WD4JR 125,370 387 105 C W2OO 10,045 77 41 C	W9 Wisconsin K9PG 43,860 181 60 A N9POU 196,878 520 114 B W9HR 5,082 46 33 C	LU1BJW (+LU1AE) 103,600 316 80 D	LU1BJW (+LU1AE) 103,600 316 80 D	LU1BJW (+LU1AE) 103,600 316 80 D	P43E 1,479,762 262 62 B	
Tennessee	K4BEV 117,758 347 97 A WO4O 6,994 99 26 B NY4T 196,680 583 132 B NSTWV4 101,689 401 73 B NOBG 96,228 286 99 B K4OO 47,810 191 70 C KW4JS 23,162 173 37 C AK4ST 9,503 74 43 C WD4PTJ 593 17 9 B WW4RR 1,080,744 1978 147 C	W9 Canada Maritime VE1JX (K6HNZ, op) 1,121,586 2041 211 B VE1JS 421,212 774 132 B	LU7EGO 19,448 142 34 B LU8EXF 15,677 86 61 B LU9E0C 3,546 53 18 B LU1DZ 278,002 614 97 C LU5FA 223,300 962 50 C LU8WD (+LU7AWP,LW9DAH) 433,041 823 119 D	PY2PK 2,027,851 2396 193 B PY5HSD 236,320 498 112 C PY2P (PY2RIK, op) 143,047 586 53 B	PY2PK 2,027,851 2396 193 B PY5HSD 236,320 498 112 C PY2P (PY2RIK, op) 143,047 586 53 B	PY2PK 2,027,851 2396 193 B PY5HSD 236,320 498 112 C PY2P (PY2RIK, op) 143,047 586 53 B	PY2PK 2,027,851 2396 193 B PY5HSD 236,320 498 112 C PY2P (PY2RIK, op) 143,047 586 53 B
Zone 9 Canada	K4AO 6,994 29 26 B W4Y4 5,040 48 30 B	W9 Wisconsin XE1 102,588 304 103 A XE1/AA6RX 129,265 357 103 C XE2L (+XE2MX,K6AM,N6KL) 835,380 1677 140 D	VE1JX (K6HNZ, op) 1,121,586 2041 211 B VE1JS 421,212 774 132 B	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	
Zone 10 Mexico	W4MM 232,218 500 126 B KU4FP 74,074 231 91 B KC2JT 48,919 208 71 B K3ZJ/8 39,738 409 37 B WA4FXX 10,564 74 38 B W4BOF 45,375 360 33 C K6ETM 1,679 33 23 C N3ME (+ops) 986,752 1308 208 D	W9 Wisconsin XE1AA (HP1XWH, op) 1,384,269 2120 157 B	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	
Zone 11 Jamaica	W4MM 232,218 500 126 B KU4FP 74,074 231 91 B KC2JT 48,919 208 71 B K3ZJ/8 39,738 409 37 B WA4FXX 10,564 74 38 B W4BOF 45,375 360 33 C K6ETM 1,679 33 23 C N3ME (+ops) 986,752 1308 208 D	W9 Panama 3E1AA (HP1XWH, op) 1,384,269 2120 157 B	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	
Zone 12 Barbados	W4MM 232,218 500 126 B KU4FP 74,074 231 91 B KC2JT 48,919 208 71 B K3ZJ/8 39,738 409 37 B WA4FXX 10,564 74 38 B W4BOF 45,375 360 33 C K6ETM 1,679 33 23 C N3ME (+ops) 986,752 1308 208 D	W9 Panama 3E1AA (HP1XWH, op) 1,384,269 2120 157 B	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 1962 203 A	PY2GEC (PY2RIK,PY2ESZ,PR8RZJ, PU2WFP, ops) 1,684,494 196	

DL2RTJ	77,760	251	96	A	Hungary	OK2BNX	40,843	240	47	C	Corsica	155,661	304	159	C
DM3HZN	75,905	265	100	A	HA0HW	169,579	625	101	A	OK1AYY	33,957	195	77	C	
DL5IAM	59,972	277	94	A	HA3OU	50,250	254	99	A	OK1DVK	25,286	101	94	C	
DL0HGW (DL9GMN, op)	58,300	234	106	A	HA1XY	697,977	1181	185	C	OK1AUU	17,319	106	69	C	
DH2OOO	57,970	245	85	A	HA4YF	433,320	759	184	C	OK2BHE	14,079	89	39	C	
DJ5IW	53,144	215	73	A	HA6PQ	315,210	785	158	C	OK2SWD	1,010	23	10	C	
DL9JON	47,718	166	99	A	HA8LKB	186,956	431	154	C	Slovakia	Y02DFA	279,345	739	165	A
DL2AL	35,816	177	74	A	HA0GK	11,433	111	37	C	OM4TX	187,240	451	155	A	
DL4DRA	30,710	154	74	A	HG6N (HASTI, HA6DX, HA6ND, HA6NF,	OM3CDZ	125,628	410	114	A	Y04AAC	71,730	379	90	A
DF1LON	26,718	156	73	A	HG6N (HASTI, HA6DX, HA6ND, HA6NF,	OM7VF	124,914	326	109	A	Y08GF	54,531	179	83	A
DL4FDM	12,160	104	76	A	HA6NL, HA6NO, HA6NY, HA6PX, HA6OB,	OM5KM	67,080	244	129	A	Y08MI	50,592	342	48	A
DL5ZB	11,310	86	65	A	HA6OI, HA6OY, HA6ON, ops)	OM7AG	64,815	307	87	A	Y02GL	23,328	127	81	A
DL5UA	10,812	103	51	A	3,819,315	393	303	D	OM4DN	88,660	258	110	B		
DL1MGB	9,982	89	46	A	393	326	773	169	C	Y06BHN	462,840	870	203	A	
DL4AUE	8,648	74	47	A	HB9QA	25,665	161	87	A	Y07BGA	197,472	435	136	A	
DL1TC	7,560	58	42	A	HB9CQS	6,641	69	29	B	Y03FRI	193,248	482	144	A	
DL4JTW	7,350	69	42	A	HB9ARF	337,172	833	158	C	OM1M (OM1GM, op)	2,029,608	2328	252	A	
DF6AU	5,490	61	45	A	HB2DOT	316,526	791	161	C	OM2TB	6,100	104	25	C	
DL2AXM	1,100	28	22	A	HB9XY	19,544	150	56	C	Slovenia	Y01M (OM1GM, op)	2,029,608	2328	252	A
DL9YAJ	1,486,134	1782	219	B	Italy	S57DX	1,576,438	2065	257	A	Y08RTR	41,245	199	73	B
DL8PC	1,093,265	1124	205	B	IT9BLB	S55A	819,693	1350	189	B	Y06QT	13,912	116	47	A
DL8UD	1,028,775	1565	215	B	IQ3X (IV3SKB, op)	S55WW	405,594	855	174	A	Y08CK	33,864	189	68	A
DL6NDN	257,840	731	116	B	I2WJU	S51NM	275,236	613	158	C	Y09FLD	12,243	100	33	A
DL4HU	192,814	527	107	B	I2WJU	S5K6XX	228,995	535	155	A	Y09AB	19,159	156	49	A
DL7AQO	172,029	471	143	B	I2WJU	S54X	215,194	538	133	A	RK1QXX	241,832	650	148	A
DF7YU	167,865	547	95	B	I2WJU	S53AK	122,158	455	103	A	Y04US	188,440	602	140	A
DF1ZN	161,976	405	136	B	I2WJU	S57IIQ	91,324	503	79	A	RK6ASU	232,798	478	167	A
DH2SP	139,080	410	122	B	IR4B (IK4AUP, op)	S52GO	66,624	294	96	B	Y06AVB	19,400	98	10	A
DL8SDC	125,172	385	114	B	IR4R (IK4ALM, op)	S51T	37,500	172	100	A	Y06EJ	2,490	522	80	A
DK4IO	89,798	274	118	B	I3MLU	S55/6VR	10,146	98	43	A	Y07LTQ	1,848	37	24	B
DH5AO	71,482	249	103	B	I0SNY	S55/6VR	3,510	73	30	A	Y03III	1,804	42	22	B
DH2SPK	65,598	296	87	B	I1COB	S51CK	604,080	1225	144	B	Y08SDT	1,617	51	21	A
DF1HF	63,648	221	104	B	I1COB	S5V (Al6V, op)	495,608	983	164	B	Y04ZFB	84,375	274	125	C
DF3IS	56,496	230	88	B	I1COB	S57SSX	47,168	298	64	B	Y04CSL	51,211	208	83	C
DF2IAK	42,230	214	83	B	I2B2KA	S51AD	14,735	158	35	C	Y05ADS	48,198	306	87	C
DL1FDK	33,840	192	72	B	I2B2KA	S51WD	131,757	417	111	C	Y09DAF	37,668	257	43	C
DJ2UB	30,320	155	80	B	I2B2KA	S53AU	80,563	273	119	C	Y08BHY	28,386	138	83	C
DH9SBL/P	26,523	162	63	B	I2B2KA	S53MJ	14,256	179	81	C	Y08DHD	6,858	92	27	C
DL6ZFG	25,920	160	80	B	I3L (IV3KAS, op)	S59/1K1	5,819	100	23	C	Y05ODU	3,213	81	17	C
DJ3XM	24,633	141	69	B	I3L (IV3KAS, op)	S59/1K1	5,819	100	23	C	Y04BTB	1,960	40	20	C
DLOTHR (DL3ARK, op)	24,346	139	74	B	I3L (IV3KAS, op)	S59/1K1	5,819	100	23	C	Y02KJJ (Y02GL, Y02B2P, ops)	221,100	507	150	D
DF0PT (DL8BCU, op)	22,754	135	62	B	I3L (IV3KAS, op)	S59/1K1	5,819	100	23	C	Y04RKT	18,525	150	22	A
DL8UAA	17,028	115	66	B	I3L (IV3KAS, op)	S59/1K1	5,819	100	23	C	Y03NFA	17,061	129	33	A
DL9ZWG	16,215	111	69	B	I3L (IV3KAS, op)	S59/1K1	5,819	100	23	C	Y06HKD	9,182	139	26	A
DL5FCV	15,330	102	70	B	I3L (IV3KAS, op)	S59/1K1	5,819	100	23	C	Y04UAT	7,878	69	39	A
DH1UZ	11,970	100	57	B	I3L (IV3KAS, op)	S59/1K1	5,819	100	23	C	Y03RTZ	4,160	90	16	A
DJ6QO/P	5,772	64	39	B	I3L (IV3KAS, op)	S59/1K1	5,819	100	23	C	Y03RCM	3,104	47	32	A
DL1HXR	4,466	40	29	B	I2R2 (IZ2DAY, op)	S59/1K1	5,819	100	23	C	Y01AAT (4N1MD, op)	221,100	507	150	D
DK5KJ	3,906	42	31	B	I2R2 (IZ2DAY, op)	S59/1K1	5,819	100	23	C	Y03LQQ	1,204	60	14	A
DL7LZ	2,700	50	30	B	I2R2 (IZ2DAY, op)	S59/1K1	5,819	100	23	C	Y07KWX	522,928	1076	161	B
DH6ARM	2,295	31	27	B	I2R2 (IZ2DAY, op)	S59/1K1	5,819	100	23	C	R3K (RX3DCX, op)	1,535,338	1939	238	B
DJ1VQ	1,710	44	19	B	I50OQ	10,400	68	40	C	Y07KWX	168,080	483	110	B	
DL1OI	1,528	31	12	B	I51DFI	9,800	90	49	C	Y07TYY	122,000	538	120	C	
DJ2YE	1,420	32	10	B	I50A0 (IOTIC, HA6AZQ, IOKXOB, IOZUT,	S59/1K1	81,991	318	91	A	Y07LSC	91,482	122	27	B
DL3KUD	832,892	1215	224	C	I50A0 (IOTIC, HA6AZQ, IOKXOB, IOZUT,	S59/1K1	81,991	318	91	A	Y07LSC	91,482	122	27	B
DL5RMH	601,020	998	189	C	I50A0 (IOTIC, HA6AZQ, IOKXOB, IOZUT,	S59/1K1	81,991	318	91	A	Y07LSC	91,482	122	27	B
DL3NM	572,000	974	200	C	I50A0 (IOTIC, HA6AZQ, IOKXOB, IOZUT,	S59/1K1	81,991	318	91	A	Y07LSC	91,482	122	27	B
DJ5YY	488,565	887	199	C	I50A0 (IOTIC, HA6AZQ, IOKXOB, IOZUT,	S59/1K1	81,991	318	91	A	Y07LSC	91,482	122	27	B
DJOLY	423,462	783	183	C	I50A0 (IOTIC, HA6AZQ, IOKXOB, IOZUT,	S59/1K1	81,991	318	91	A	Y07LSC	91,482	122	27	B
DH2FW	381,765	823	185	C	I50A0 (IOTIC, HA6AZQ, IOKXOB, IOZUT,	S59/1K1	81,991	318	91	A	Y07LSC	91,482	122	27	B
DL0MFL	378,841	745	155	C	I50A0 (IOTIC, HA6AZQ, IOKXOB, IOZUT,	S59/1K1	81,991	318	91	A	Y07LSC	91,482	122	27	B
DL5KUD	328,072	593	184	C	I50CST (+ops)	S59/1K1	120,780	318	122	D	Y07LSC	91,482	122	27	B
DL6KWN	318,696	655	168	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL6KVA	277,756	494	234	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL5JRA	236,754	505	126	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL3KWF	232,432	575	146	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL1LTH	216,954	462	153	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL6RDE	205,206	530	138	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL4JYT	196,392	437	168	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL4JU	192,015	435	153	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DK7ZH	188,940	433	141	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DJ3XD	183,126	428	138	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL6JZ	168,190	459	139	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL5SVB	157,058	447	127	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL1ARJ	142,576	383	133	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL3BZ	132,556	396	124	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DL3BRA	130,620	347	140	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,482	122	27	B
DK7FP	129,064	353	104	C	I50CST (+ops)	S59/1K1	115,390	384	110	D	Y07LSC	91,			

UT0RW	395,629	648	169	A	Kazakhstan		Cyprus	P3A (RA9JX,UA9YAB,RZ9IR,RK3AD, RZ9OA, ops)	JQ1UKK/7	310,144	601	128	C	
UT2IW	394,396	695	170	B	UP5P (UNSPR, op)			5,269,336	JA7IC	307,154	538	137	C	
UTW7U	345,072	550	158	A	UN2O	456,500	746	166	JA03JYE	250,290	622	103	C	
UV5ZZ	341,348	780	167	A	UN7CE	253,130	407	170	JA9CUDL	232,625	449	125	C	
UR5MD	275,547	445	159	A	UN8PF	1,196,166	1382	186	JA9CWJ	222,500	501	100	C	
UT5TE	248,979	598	149	A	UN7EX	96,446	305	83	JH1AZO	221,536	502	112	C	
UT5HP	133,632	306	128	A	UP0L	7,656	68	29	JK3GWT	176,400	444	90	C	
UTW7C	123,228	377	126	A	UN9LN, (UN9LCN, ops)	1066	96	A	J1CUP	150,670	384	95	C	
US3IZ	121,893	355	123	A	UN4L	2,709,510	2793	222	JA3AA	119,079	321	101	C	
UR5FCM	83,049	330	93	A	UN7LG,UN7LF,UNOLG,UN7LO, UN9LY,UN9LN, ops)	1066	96	A	JR3WXA	118,524	290	102	C	
UX8IX	78,884	427	74	A	TA3BN	24,354	123	54	JI7OED	117,299	314	91	C	
US1PM	56,160	273	72	A	TA3ET	13,299	85	33	J71EPT	116,850	322	95	C	
UT5IZO	(UN7PW,UT5IZ, ops)	52,275	242	75	A		2,352,900	2468	220	JA1XRH	107,432	285	104	C
UT0FT	18,409	168	41	A					JS1PWV	106,998	321	102	C	
UT2XX	17,442	95	54	A					JA2KKA	104,720	281	88	C	
UV7D	(UT7DX, op)	1,142,174	1660	193	B				JA1RH	103,860	270	90	C	
EM8I	397,413	919	123	B					JA1PS	98,890	233	110	C	
UR6MX	191,424	783	64	B					JA1NLX	87,906	247	91	C	
UR7EM	177,552	421	144	B					JJ2OXI	87,548	277	86	C	
UT3RN	113,920	441	80	B					J1TRXQ	81,530	307	62	C	
UT7MD	100,711	264	127	B					JN1MSO	69,194	288	58	C	
UY0MF	87,400	312	95	B					JG3LGD	64,480	203	80	C	
UT5UOC	56,052	340	54	B					JAGAPU	61,400	318	50	C	
UR5WBQ	39,675	144	69	B					JA5ATN	58,560	276	48	C	
UR5XAW	39,433	181	47	B					JA3ARM	58,140	178	85	C	
EN1Z (UT0ZZ, op)	26,112	267	24	B					JH4FUP	57,190	215	70	C	
UT5RQ	22,620	129	65	B					JA8AJE	55,115	201	73	C	
UR4EI	13,260	99	65	B					JQ2FS	52,272	174	72	C	
UR5KBY	2,114	60	14	B					JA4MHL	51,520	202	64	C	
US5EEAE	630	25	9	B					JH0EFP	50,184	326	34	C	
UT4MW	374	14	11	C					JH6OPP	49,416	207	71	C	
UX7IA	1,179,570	1800	210	C					JN7OY	45,162	151	78	C	
UW5Q (UR3QCW, op)	1,009,967	1376	223	C					JE4VRF	43,281	172	63	C	
UT2ID	800,916	1364	186	C					JA1CP	42,490	163	70	C	
UT8IT	270,928	534	164	C					JH3JYS	38,570	145	70	C	
US9QA	262,656	645	144	C					JA9BKW	36,366	153	66	C	
UV5Q (UX7QQ, op)	219,705	401	151	C					JR1LEV	35,750	138	65	C	
UX5EF	179,655	427	145	C					J4P4PK	35,090	126	58	C	
UR6IGG	138,852	397	114	C					JH1SWD	34,816	144	64	C	
UT7QF	129,948	441	98	C					JA2OJ	33,972	148	57	C	
UW7Q (UR7QM, op)	129,696	412	84	C					JK1VSL	33,810	132	69	C	
UR5XXC	34,048	178	56	C					JQ3NPK/1	31,212	140	54	C	
UT8LO	26,011	217	37	C					JA1KJ	29,264	102	62	C	
UR3PFX	3,744	72	26	C					JH3KX	29,000	120	54	C	
UU2JJA	99	9	9	C					JQ2FS	28,570	120	54	C	
UU5J (UU1JA,UU2JQ,UU3JD,UU4JDR, UU4JDX,UU4JKQ,UU4XPS, op)	2,800,820	2648	319	D					JA1MXY	27,100	120	54	C	
UZ7U (UY2UA,UT5UDX,UT3UA, op)	2,376,085	2857	235	D					JH2DHL	22,072	92	29	C	
EO11 (UT11A, op)	1,477,566	1882	249	D					JH1JGQ	21,425	120	54	C	
Latvia									JT2KQ	21,072	87	32	C	
YL3DW	1,603,329	1734	273	A					JH2XAB	19,488	394	104	C	
YL2KA	864,902	1260	226	A					JH1RZA	19,200	370	120	C	
YL2MF	37,800	148	63	B					JH2XKX	18,920	226	79	C	
YL3BZ	8,323	55	41	C					JH2NWP	18,700	100	40	C	
YL2GN	582,900	1039	174	C					JH3NVB	18,400	373	74	C	
YL2MR	367,906	817	154	C					JH4OXP	18,120	230	74	C	
YL2PV	193,062	485	138	C					JH4P4PA	17,920	200	74	C	
YL2CV	106,304	252	151	C					JH4TAM	17,720	200	74	C	
YL2PP	6,930	66	45	C					JH4TMD	17,520	200	74	C	
YL1XN (YL3DK,YL2HB,ops)	76,302	335	81	D					JH4TQ	17,320	200	74	C	
Zone 30 Kyrgyzstan									JH4TQW	17,120	200	74	C	
EX2T	104,160	300	80	B					JH4TQY	16,920	200	74	C	
EX2X	534,360	863	146	C					JH4TQZ	16,720	200	74	C	
EX2A	62,832	254	56	C					JH4TSD	16,520	200	74	C	
European Russia									JH4TSL	16,320	200	74	C	
UA4HTT	1,993,977	2300	239	A					JH4TSM	16,120	200	74	C	
RA4HT	73,632	278	96	A					JH4TSP	15,920	200	74	C	
RA4WNH	9,676	82	59	A					JH4TSP	15,720	200	74	C	
RA4HTX	1,575,658	1901	241	B					JH4TSP	15,520	200	74	C	
RW4HO	1,360	32	17	B					JH4TSP	15,320	200	74	C	
RN4WA	638,550	1034	198	C					JH4TSP	15,120	200	74	C	
RA9AAP	76,048	358	49	C					JH4TSP	14,920	200	74	C	
RU4HH	48,672	251	52	C					JH4TSP	14,720	200	74	C	
RU4WT	40,500	259	50	C					JH4TSP	14,520	200	74	C	
RZ4PZL (UA4PMG,UA4PMQ,UA4PNP, UA4PNL, op)	643,401	995	201	D					JH4TSP	14,320	200	74	C	
Asiatic Russia									JH4TSP	14,120	200	74	C	
UA9CLB	1,921,725	2041	219	A					JH4TSP	13,920	200	74	C	
UA9CDV	1,910,420	1900	236	A					JH4TSP	13,720	200	74	C	
UA9AM	1,130,850	1371	210	A					JH4TSP	13,520	200	74	C	
RW9TA	950,600	1178	200	C					JH4TSP	13,320	200	74	C	
UA9C9D	810,271	1048	187	A					JH4TSP	13,120	200	74	C	
RA9AN	229,140	376	134	C					JH4TSP	12,920	200	74	C	
RU9LA	176,960	521	79	A					JH4TSP	12,720	200	74	C	
RX9WN	130,032	297	108	C					JH4TSP	12,520	200	74	C	
RA9AUH	91,448	322	71	A					JH4TSP	12,320	200	74	C	
UA9CNV	39,104	210	47	A					JH4TSP	12,120	200	74	C	
UA9AX	36,408	142	74	A					JH4TSP	11,920	200	74	C	
UA9ACB	589,082	996	139	C					JH4TSP	11,720	200	74	C	
UA9ACJ	267,344	462	154	B					JH4TSP	11,520	200	74	C	
RA9DA	195,244	384	133	C					JH4TSP	11,320	200	74	C	
UA9AAZ	185,136	416	114	B					JH4TSP	11,120	200	74	C	
UA9ALCY	180,318	372	123	C					JH4TSP	10,920	200	74	C	
RA9ABE	163,800	342	126	B					JH4TSP	10,720	200	74	C	
RA9AMBC	78,960	264	84	B					JH4TSP	10,520	200	74	C	
RA9W9MZ	40,356	185	57	C					JH4TSP	10,320	200	74	C	
RW9RF	38,025	161	65	B					JH4TSP	10,120	200	74	C	
RW9SW	1,338,019	1480	209	C					JH4TSP	9,920	200	74	C	
RA9DZ	95,120	1233	184	C					JH4TSP	9,720	200	74	C	
RA9SO	89,2410	1089	197	C					JH4TSP	9,520	200	74	C	
RA9APA	384,125	562	175	C					JH4TSP	9,320	200	74	C	
UA9WQK	236,283	476	123	C					JH4TSP	9,120	200	74	C	
RA9HY	138,086	311	113	C					JH4TSP	8,920	200	74	C	
UA9FGJ	71,451	319	51	C					JH4TSP	8,720	200	74	C	
RK9CF	8,996	82	29	C					JH4TSP	8,520	200	74	C	
RF9C (UA9CIR,RA9CKQ,RA9CMO, RZ9CO, op)	2,781,8													