IARU HF Championship 2016 Results

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"No doubt who won this contest -- Mother Nature. – K4AB"

As with all other HF contests, this one is very much influenced by the sunspot cycle. In 2016, sunspot activity was really going down very fast and degrading propagation on the higher bands. This is clearly visible in the scores of the bigger stations, especially in the Headquarters station category. However, the number of received logs is growing slightly, so the popularity of this contest is still very strong despite declining conditions. Also, the 2015 and 2016 events were WRTC2018 qualification events, which has raised interest. As a result, while conditions were generally poorer than 2015, there seemed to be more activity.

Space Weather

The lower sunspot numbers impacted propagation for most stations. In fact, for a week-long period in late June the sunspot number dropped to zero. Ray, WQ5L, described conditions succinctly: "Cycle 24 fall down, go boom." K6WSC was operating in the Unlimited category and when he was tuning through the cluster spots in the band map and got to the end of the band, the N1MM+ software reported "No more spots". Bill got a hearty laugh out of the double meaning in the message.

Most entrants were not laughing and reported very poor conditions on 10 meters in particular. Bob, MDØCCE (operating as MD2C) said "checked 10M both days, I never heard a signal on the band, even when there were spots from stations to the south of me; however 20M was open all night". Steve, N2IC, in New Mexico, said "First time I have ever been completely shut-out on 10 meters. Nothing there. Not a peep." Another Steve (PJ4DX), on the island of Bonaire in the Caribbean where propagation is almost always excellent, commented "Worst ever conditions for the first 8 hours".

There were exceptions, however. VK2PN said "Conditions were not too bad. Plenty of stations to work", while VK2CZ noted "Great conditions with 20m never actually closing". HSØZIA had an interesting perspective: "Condx so bad here it felt like I was QRP! Nice to see 10 meters still alive though!"

Many stations reported zero intercontinental QSOs on 10-meters, but a lucky few caught a short multi-hop sporadic-E opening from Western and Southern Europe to the southeastern USA around 2200z. W2GD, who operated as P4ØW on Aruba to celebrate his 67th birthday noted that he worked a fair number of Europeans on 10 but only two USA stations. Within Europe, sporadic-E provided some excellent rates on 10 off and on throughout the day.

Terrestrial Weather

July is thunderstorm season in the northern hemisphere, and many stations suffered. Some reported high local QRN, while others had to shut down during passing storms. Ed, N1UR, said he dodged thunderstorms literally the entire contest. One finally came directly over, requiring a shutdown. Jim, KM4HI, had to shut down and disconnect twice due to passing thunderstorms. Marv, N5AW, reported "Something about contests that seem to attract thunderstorms to our area. None were forecast but static crashes kept getting louder and louder. About midnight I heard thunder. Could see lightning to our west and north but fortunately it did not get any closer so did not have to shut down". Andy, N2NT, was not so lucky. His antenna switching system failed due to a nearby lightning strike at 0250z, and his contest was over.

Olivier, ON4EI, had a different weather-related experience. He traveled to Ireland again and operated as EI1A from his camping van atop a hill in County Tipperary. The wind blew at a constant 45 km/hr (28 mph) with gusts to nearly 60 km/hr (37 mph), but he used it to advantage and powered his station from his wind generator for the entire contest

Sunrise at the windy hilltop QTH of EI1A (ON4EI photo)

Noteworthy Scores

Single Operator

In Single Operator, Mixed Mode, High Power category, the top score was achieved by P33W, operated by Igor "Harry" Booklan, RA3AUU, followed by 2015 winner UW2M (operated by URØMC) who had a comparable number of QSOs and more multipliers than P33W but could not overcome the scoring advantage of Harry's Asia QTH. The 2015 Single-Operator Low Power Phone Only winner, Julio, YV1KK added an amplifier and improved antennas this year, and won the High Power, Phone Only category by a wide margin. Julio reported that he enjoyed watching the real-time scoreboard at **cqcontest.net**. In the Single Operator, High Power, CW Only category, R3ZZ edged out UW1M by a narrow margin after log-checking was complete.

In the Single Operator, Low Power category HA3DX (HA4XH, operator) ran away with the Phone Only prize, nearly doubling the score of runner-up EI1A (ON4EI, operator), while the scores CW Only and Mixed Mode categories won by 5H3EE and EC2DX respectively, were much closer.

In the USA/Canada, SO Mixed winners were VY2ZM, W1UE, and K2GMY (HP, LP, QRP, in that order); SOHP Phone winners were K5TR, KX4R, and W8QZA operating W6QU; SOHP CW winners were W1KM, K7SV, and W7YAQ.

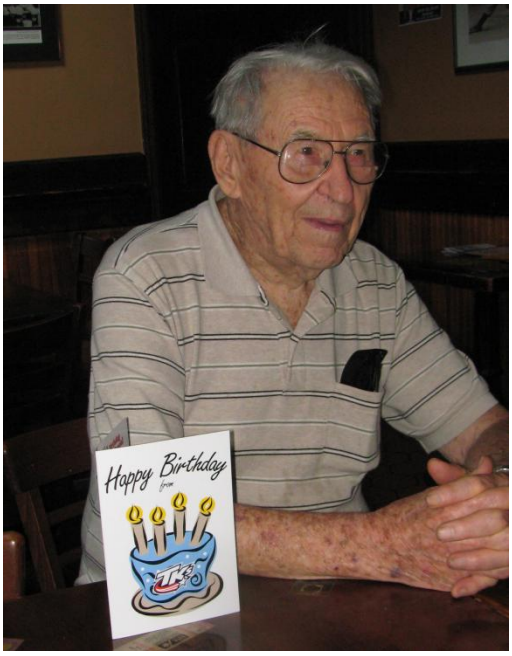
Single Operator Unlimited

The Single Operator Unlimited category was introduced for the first time in 2015 and has proved to be quite popular. The High Power winners in this very competitive category were 4X6FR, ES6RW (ES5RW, op) and SN7Q (SP7GIQ, op) in the Mixed, Phone and CW sections. W/VE winners were VA2WA, W3LL, and K9NW.

In the Unlimited, Low Power category, Cyprus seemed to be the place to be. P3F (5B4AGN, operator) overpowered UZ3A (UX1AA, operator) for Mixed Mode honors, and C4I outpaced another Ukrainian station (UT4LW) in the CW Only category. The Cyprus stations took full advantage of the higher point value available working Europe and good openings on 10 meters. W/VE winners were NE9U, VE1WOW, and KØRF.

Unlimited, QRP winners were DK3WE (Mixed), LZ1DM (Phone Only), and OK2FD (CW Only), all by convincing margins. N1CC, AK8H, and KA7T topped USA/VE entrants.

Ted, N9NB, runner-up in the SO Unlimited CW LP category said he was amazed at the number of erroneous spots. If you use the cluster, make sure you verify the callsign of the station you are working, because miscopied callsigns are removed from your log!



97-year-old Ted, K2JMY operated in the 2016 IARU HF Championship contest (K2JMY, photo)

Multioperator, Single Transmitter

The Multioperator, Single Transmitter category is a good way to introduce new or casual operators to contesting. ES5E (@ES5EC) used the contest to demonstrate radio contesting to a group of enthusiastic young people. Their small club station, equipped with just a Kenwood TS-2000 rig and tribander + 40-meter dipole antenna, was sufficient. Their novice YL operator made about 15% of their total QSOs and was quite excited about her personal result.

PD1DX used this tractor to pull the out the weak ones at PI4DX (K1CC photo)

RM9A had the highest score in the category, followed by IR4X and IR4M from Italy. KE3X had the highest W/VE score.

The crew at PI4DX (9th place in the World) only had one radio set up with a QRO barbeque grill outside and took turns at the radio one at a time, taking full advantage of the nice weather. The K8AZ team (third place in the W/VE region) reported that their best hour was 00Z Sunday (Saturday evening) when they didn't make a lot of QSOs, but enjoyed their traditional grilled steak and fixings dinner.

Bram PH9B, checking propagation on the BBQ at PI4DX (K1CC photo)

Remote Stations

Several multiop teams included operators that were not physically located at the station. K2LE/1 in Vermont was operated By Andy himself; Lars, KE1J, in MA; and Gerry, W1VE, in NH. Likewise, the W4AAW station operators included Bryon, W7RIV, from Utah; Alex, KU1CW, in Oregon; and Eric, KJØD, in Missouri, and W4AAW actually in the shack. KEØHQZ in South Dakota was operated by KJ5Y from Texas and KEØHWZ from Colorado.

HQ Station Competition

Headquarters stations are a special part of this contest, where many operators work together using the callsign of their national amateur radio society, often involving stations at multiple locations. This year we had over 60 HQ stations active in the contest, with addition of 10 stations operated by IARU officers. They are counted as separate multipliers, which add another interesting dimension to this contest. In the HQ stations category, the biggest score this year was made by TMØHQ (REF – France), followed closely by EF4HQ (URE – Spain) and DAØHQ (DARC – Germany).

One of the stations used by second-place HQ station EF4HQ, representing the Unión de Radioaficionados Españoles

This contest marked the first entry for the headquarters station of the IARU's newest member society, the Shoqata e Radioamatorëve të Kosovës (SHRAK), using the callsign Z6ØA from several sites near Pristina, Kosovo.

Operators at Z6ØA included local Kosovar amateurs as well as visitors from Finland, Slovenia, Denmark, and the Netherlands.

HQ, IARU Official, and Advisory Council Scores

Call	Score		Call	Score
TMØHQ	22,998,510		LX8HQ	2,884,798
EF4HQ	22,878,720		J77HQ	2,851,970
DAØHQ	22,542,704		BxHQ	2,746,944
OL6HQ	19,489,256		UN1HQ	2,160,543
S5ØHQ	19,484,842		CR5HQ	2,071,818
9AØHQ	18,015,318		AT1HQ	1,988,772
EM5HQ	17,687,980		E2HQ	1,861,571
YTØHQ	17,574,258		T4ØHQ	1,728,480
LYØHQ	15,538,303		DXØHQ	1,559,844
R9HQ	15,514,597		G3BJ	1,491,952
OEØHQ	14,226,669		A71HQ	1,253,888
ZWØHQ	14,168,578		ER7HQ	1,178,736
GR2HQ	13,641,771		HBØHQ	808,500
LZ7HQ	13,416,126		BVØHQ	779,394
HGØHQ	13,320,285		YV5AJ	573,352
SNØHQ	12,921,825		9M4CC	539,325
YRØHQ	12,095,162		YBØAZ	353,726
OZ1HQ	11,229,570		ZF1A	307,174
OPØHQ	8,777,088		JA1CJP	258,361
E7HQ	8,020,398		4K1HQ	242,902
HB9HQ	7,976,892		7TØHQ	240,389
YL4HQ	6,386,016		HB9FPM	194,532
8NxHQ	4,391,626		J87HQ	166,192
LS4AA	4,331,502		XE1KK	161,938
W1AW/9	4,215,400		PT2ADM	139,296
OH2HQ	4,114,026		XE1LM	116,205
EIØHQ	4,046,856		VK5WIA	97,527
LN2HQ	3,925,350		LA2RR	80,342
Z3ØHQ	3,877,480		HC2HQ	37,966
9K2RR	3,733,472		YEØHQ	30,456
SK9HQ	3,418,366		DL9KCE	12,078
PA6HQ	3,378,648		V84SHQ	11,151
PJ2HQ	3,297,014		ZS9HQ	5,346
NU1AW/6	3,287,468		VE6SH	2,960

Thanks again to the World Wide Radio Operator Foundation (www.wwrof.org) for adjudicating the HQ station scores.

Regional Leaders

Boxes list call sign, score, and category:
SO = Single Operator SOU = Single Operator Unlimited MIX = Mixed Mode CW = CW Only PH = Phone Only
HP = High Power LP = Low Power QRP = QRP MSHP = Multioperator, Single Transmitter, High Power

West Coast Region

Pacific, Northwestern, and Southwestern ARRL Divisions; Alberta; British Columbia, and NT RAC Sections

Call	Score	Cat
Single Operator		
K7JR (KL9A, op)	1,235,520	MIX-HP
VA7AAA	520,625	MIX-HP
K6NR	324,870	MIX-HP
K2RD	104,517	MIX-HP
W1PR	93,896	MIX-HP
K6XX	875,525	MIX-LP
W7RM (K2PO, op)	460,698	MIX-LP
VE6EX	94,808	MIX-LP
WA5TVO	43,740	MIX-LP
KM9R	35,046	MIX-LP
K2GMY	12,312	MIX-QRP
N7FG	1,500	MIX-QRP
KFØX	1,445	MIX-QRP
N7XY	768	MIX-QRP
W7WA	979,755	PH-HP
NR6Q	266,988	PH-HP
W7ZZ	161,092	PH-HP
W6AFA	47,011	PH-HP
K9QJS	13,806	PH-HP
K7XE	5,290	PH-LP
W1DGL	4,080	PH-LP
N7VZU	3,874	PH-LP
K6MUG	2,852	PH-LP
AE6YB	2,329	PH-LP
W6QU (W8QZA, op)	11,100	PH-QRP
KK7VL	189	PH-QRP

Midwest Region

Dakota, Midwest, Rocky Mountain and West Gulf ARRL Divisions; Manitoba and Saskatchewan RAC Sections

Call	Score	Cat
W5/MMØL ID	153,738	MIX-HP
WØEA	67,773	MIX-HP
AD5MD	32,242	MIX-HP
WØKIT	3,197	MIX-HP
N5AW	930,804	MIX-LP
K5WA	900,210	MIX-LP
K3PA	607,128	MIX-LP
KØAD	333,603	MIX-LP
AF5CC	24,624	MIX-LP
VE5DLD	644	MIX-QRP
K5TR	1,249,740	PH-HP
AD5XD	285,090	PH-HP
W5GFI	84,159	PH-HP
K9MWM	23,580	PH-HP
K5YM	13,332	PH-HP
K5DHY	54,360	PH-LP
N7MZW	51,127	PH-LP
KI5YG	17,514	PH-LP
KØBWQ	11,476	PH-LP
W7KAM	11,286	PH-LP
KIØII	1,872	PH-QRP
WBØIWG	1,395	PH-QRP

Central Region

Central and Great Lakes ARRL Divisions; Greater Toronto Area, Ontario East, Ontario North, and Ontario South RAC Section

Call	Score	Cat
VE3AT	1,731,240	MIX-HP
VE3EJ	1,700,616	MIX-HP
VE3DZ	818,979	MIX-HP
K4WW	44,368	MIX-HP
W9TC	3,425	MIX-HP
NA8V	530,058	MIX-LP
N4TZ	512,945	MIX-LP
VE3BR	267,506	MIX-LP
WD8S	72,675	MIX-LP
WB9HFK	42,636	MIX-LP
N9EP	10,137	MIX-QRP
VA3QV	9,884	MIX-QRP
AF9J	235	MIX-QRP
VA3ZNQ	38,420	PH-HP
KE8FT	28,713	PH-HP
VE3GNI	9,116	PH-HP
W8DWC	9,072	PH-HP
WB9ONU	6,355	PH-HP
ND4Y	163,875	PH-LP
KB8LFA	24,990	PH-LP
VA3GD	21,000	PH-LP
VA3TPS	17,178	PH-LP
VE3KTB	16,606	PH-LP
VE3LJQ	1,554	PH-QRP

Southeast Region

Delta, Roanoke, and Southeastern ARRL Divisions

Call	Score	Cat
NR3X (N4YDU, op)	1,423,632	MIX-HP
K4AB	984,312	MIX-HP
K4BAI	955,584	MIX-HP
N8II	752,556	MIX-HP
K4PV	380,679	MIX-HP
AD4Z	655,200	MIX-LP
NV4B	58,394	MIX-LP
WC4H	45,760	MIX-LP
N4CF	14,904	MIX-LP
AI4GR	10,693	MIX-LP
NO5N	312,543	PH-HP
K3ZJ	235,554	PH-HP
K1KNQ	121,856	PH-HP
K5ER	111,302	PH-HP
W4KW	93,138	PH-HP
KX4R	275,500	PH-LP
K4WES	27,010	PH-LP
W4ADB	13,650	PH-LP
KJ4KKD	11,660	PH-LP
WB2UKX	11,376	PH-LP
N4ZAK	4,750	PH-QRP

Northeast Region

New England, Hudson and Atlantic ARRL Divisions; Maritime and Quebec RAC Sections

Call	Score	Cat
VY2ZM	2,331,200	MIX-HP
K3CR (LZ4AX, op)	1,786,428	MIX-HP
N2NT	821,920	MIX-HP
K3ZO	381,145	MIX-HP
K3RA	210,678	MIX-HP
W1UE	978,538	MIX-LP
VA2EW	919,674	MIX-LP
WA1Z	750,308	MIX-LP
VO1TTT (VE9AA, op)	533,178	MIX-LP
WA2JQK	81,848	MIX-LP
N2RJ	164,574	PH-HP
N3NR	150,516	PH-HP
K2JMY	40,326	PH-HP
WB2KLD	18,668	PH-HP
W1PEF	120	PH-HP
VE2HIT	47,175	PH-LP
VE1SQ	19,812	PH-LP
WA2QAU	18,370	PH-LP
VE2GT	15,226	PH-LP
NV2K	12,691	PH-LP
AB3WS	608	PH-QRP

W7RN (N6TV, op)	1,061,956	CW-HP	K5GN	1,567,328	CW-HP	VE3EID (N2WQ, op)	621,639	CW-HP	KØEJ	869,440	CW-HP	W1KM	1,706,516	CW-HP
K6YK	64,896	CW-HP	N2IC	1,401,504	CW-HP	N8BJQ	597,091	CW-HP	N4WW (WF3C, op)	759,066	CW-HP	AA3B	1,469,862	CW-HP
K6NA	60,800	CW-HP	WXØB (AD5Q, op)	1,030,744	CW-HP	VE3XB	432,970	CW-HP	K3JT	277,042	CW-HP	K1ZD (K1ZZ, op)	1,385,290	CW-HP
W7PU (N7EPD, op)	39,273	CW-HP	N3BB	259,700	CW-HP	K8MP	304,590	CW-HP	WQ5L	264,684	CW-HP	W1WEF	767,688	CW-HP
W6AEA	38,970	CW-HP	K7IA	230,160	CW-HP	NF8R	134,040	CW-HP	N4OX	259,856	CW-HP	WR1TC (K5ZD, op)	730,170	CW-HP
WJ9B	383,830	CW-LP	AE5GT	234,220	CW-LP	KV8Q	203,835	CW-LP	K7SV	682,962	CW-LP	W1QK	367,780	CW-LP
K7WP	246,720	CW-LP	N5KWN	181,722	CW-LP	K8BTU	145,530	CW-LP	W4YE	152,478	CW-LP	WI2E	323,840	CW-LP
WA7NB	81,938	CW-LP	W5RYA	155,155	CW-LP	VE3IAE	144,228	CW-LP	N4TB	104,998	CW-LP	W1UJ	321,342	CW-LP
N6ZFO	78,813	CW-LP	KØIO	84,135	CW-LP	VE3VN	133,824	CW-LP	K1TN	99,099	CW-LP	NB1N	221,112	CW-LP
VA7ST	47,040	CW-LP	W7SE	81,984	CW-LP	K8AJS	123,105	CW-LP	NM2L	96,600	CW-LP	K1GGI	102,133	CW-LP
W7YAQ	131,784	CW-QRP	WDØT	10,350	CW-QRP	VA3SB	14,440	CW-QRP	K3TW	49,665	CW-QRP	K2YGM	43,875	CW-QRP
AE6JV	2,750	CW-QRP	KEØTT (KEØG, op)	4,925	CW-QRP	WO9S	9,579	CW-QRP	KB8V	24,769	CW-QRP	K8CN	39,808	CW-QRP
N6HI	1,680	CW-QRP	ADØBI	2,016	CW-QRP	KU4A	6,448	CW-QRP	KI4FW	7,276	CW-QRP	WA2NYY	2,100	CW-QRP
N7RCS	1,248	CW-QRP				VE3IGJ	4,050	CW-QRP				AE5RF	1,144	CW-QRP
N7VS	560	CW-QRP				AI9K	3,762	CW-QRP				K2YG	918	CW-QRP
Single Operator Unlimited														
W6NV	1,172,408	MIX-HP	KØOU	364,854	MIX-HP	K9OM	624,490	MIX-HP	NQ4I (VE7ZO, op)	1,171,304	MIX-HP	VA2WA	1,628,433	MIX-HP
KA6BIM	386,608	MIX-HP	N5ZC	135,440	MIX-HP	VE3CX	431,090	MIX-HP	WO4O	841,128	MIX-HP	W3UA	1,626,570	MIX-HP
N9NA	139,755	MIX-HP	KEØUI	98,514	MIX-HP	W9AV	101,824	MIX-HP	KM4HI	218,790	MIX-HP	KC1XX (DL8DYL, op)	1,600,355	MIX-HP
WO7V	49,860	MIX-HP	VE5MX	49,300	MIX-HP	KK9N	72,098	MIX-HP	W3CL	187,625	MIX-HP	N2PP	585,072	MIX-HP
NK6A	13,110	MIX-HP	KØVG	43,710	MIX-HP	K9CQ	49,432	MIX-HP	K4LM	149,602	MIX-HP	W1GD	572,236	MIX-HP
N7UJJ	77,341	MIX-LP	KC5FP	63,825	MIX-LP	NE9U	386,100	MIX-LP	W4MY	48,389	MIX-LP	KC1DLY	140,400	MIX-LP
NC6B	28,550	MIX-LP	WØYJT	13,294	MIX-LP	K8GT	75,624	MIX-LP	W4DAS	12,495	MIX-LP	K3ZU	111,962	MIX-LP
K7JNA	13,968	MIX-LP	KC8R	12,717	MIX-LP	N9TF	52,535	MIX-LP	WB3D	3,200	MIX-LP	KØOO	105,930	MIX-LP
N6VH	640	MIX-LP	N5DTT	1,843	MIX-LP	KW9U	16,770	MIX-LP				NK3Y	79,856	MIX-LP
WM5F	125	MIX-LP	NØWNV	1,572	MIX-LP	AB8OU	13,536	MIX-LP				W3CQB	49,662	MIX-LP
			N1CC	7,850	MIX-QRP	K8ZT	2,662	MIX-QRP	WA8HSB	2,163	MIX-QRP			
N1KEZ	14,063	PH-HP	KØVXU	209,409	PH-HP	N8BI	158,760	PH-HP	N4MM	137,760	PH-HP	W3LL	305,939	PH-HP
KG7LKI	6,318	PH-HP	K5TXT	5,280	PH-HP	N8PCN	32,368	PH-HP	K4ADR	51,600	PH-HP	W1CTN	153,621	PH-HP
KE7SW	3,700	PH-HP	NØDOW	4,422	PH-HP	VE3QN	10,105	PH-HP	KK4LGC	33,078	PH-HP	VE2NTT	62,952	PH-HP
AI6EG	2,460	PH-HP	WØPPF	1,890	PH-HP	KC8RPV	9,102	PH-HP	WJ2D	26,169	PH-HP	AB1NE	41,876	PH-HP
ND1R/6	624	PH-HP	KØARY	525	PH-HP	KC9WAV	5,454	PH-HP	K4SBZ	10,144	PH-HP	N2MUN	27,777	PH-HP

KG7GYI	12,240	PH-LP	AB5NX	11,178	PH-LP	WS6K	12,455	PH-LP	WUØB	54,964	PH-LP	VE1WOW	89,046	PH-LP
WA7YXY	2,268	PH-LP	AB5XZ	1,818	PH-LP	VE3YV	7,037	PH-LP	N2ESP	35,175	PH-LP	KA2KON	88,008	PH-LP
AE7DW	378	PH-LP	NYØT	1,121	PH-LP	N9VPV	5,904	PH-LP	N2JF	20,466	PH-LP	KC2OSR	3,850	PH-LP
K6KHB	115	PH-LP	N5EKW	952	PH-LP	KK4BKD	5,292	PH-LP	K4BBH	10,872	PH-LP	KC2YEA	288	PH-LP
			KC8MFX	560	PH-LP	KE8XH	2,507	PH-LP	NN4RB	9,400	PH-LP	W3VYK	287	PH-LP
						AK8H	21,945	PH-QRP						
						N9NBC	1,760	PH-QRP						
N7AT (K8IA, op)	952,134	CW-HP	N5XZ	900,060	CW-HP	K9NW	1,037,316	CW-HP	N4BP	878,085	CW-HP	K1MK	1,004,496	CW-HP
			K5CM (W5CW, op)	709,583	CW-HP	VE3RZ	215,166	CW-HP	N3UA	690,336	CW-HP	N3AD	979,368	CW-HP
W6RW	214,935	CW-HP	K5NA	583,848	CW-HP	KE4KY	168,096	CW-HP	W4NZ	578,900	CW-HP	VO1MP	949,725	CW-HP
W6TK	177,386	CW-HP	NSØR	288,496	CW-HP	KE8M	157,016	CW-HP	WX4G	547,927	CW-HP	K3WW	780,946	CW-HP
W6SX	176,398	CW-HP	NØKE	192,500	CW-HP	WT9U	59,780	CW-HP	K5EK	360,018	CW-HP	K1GQ	595,296	CW-HP
K6WSC	193,362	CW-LP	KØRF	753,948	CW-LP	WK4AA	170,291	CW-LP	N9NB	668,430	CW-LP	W3KB	277,884	CW-LP
K6AAB	21,216	CW-LP	NM5M	149,985	CW-LP	AB9YC	109,920	CW-LP	WA1FCN	227,768	CW-LP	K2XR	156,684	CW-LP
WA6DBC	20,631	CW-LP	W5ZO	89,775	CW-LP	VA3MJR	61,711	CW-LP	KK4XX	100,096	CW-LP	K2ZR	140,296	CW-LP
AA6EE	15,540	CW-LP	N5EIL	84,007	CW-LP	K4TXJ	53,820	CW-LP	K3KO	94,500	CW-LP	NZ3D	65,016	CW-LP
K3WYC	2,125	CW-LP	KIØI	72,228	CW-LP	K9GY	39,424	CW-LP	N4KM	91,274	CW-LP	W2CVW	51,240	CW-LP
KA7T	22,140	CW-QRP	NK5G	1,056	CW-QRP				WE5EE	1,160	CW-QRP	AB3RU	9,135	CW-QRP
									KI4MZC	798	CW-QRP	VE9BWK	8,505	CW-QRP
												K2AL	6,440	CW-QRP
												NV1W	2,528	CW-QRP
												K3OQ	270	CW-QRP
Multioperator, Single Transmitter														
NX6T	530,502	MSHP	WØLFA	732,222	MSHP	VE3UTT	1,312,598	MSHP	N1LN	1,023,960	MSHP	KE3X	2,046,656	MSHP
K7BTW	411,840	MSHP	NØAX	271,173	MSHP	K8AZ	1,221,024	MSHP	WW4LL	920,520	MSHP	K2R	849,780	MSHP
W7XQ	203,250	MSHP	KS5Z	157,311	MSHP	W5MX	489,090	MSHP	AD4ES	519,844	MSHP	K2LE	777,768	MSHP
N6MI	175,500	MSHP	WØGJ	42,955	MSHP	VA3DF	199,652	MSHP	N4SVC	442,323	MSHP	N2GZ	183,080	MSHP
WS7L	141,426	MSHP	NØSSC	32,634	MSHP	W9MAR	6,210	MSHP	N4IQ	301,010	MSHP	N2CW	170,716	MSHP

Top Ten Scores										
United States and Canada		**World**			**United States and Canada**		**World**			
Single Operator					**Single Operator Unlimited**					
Mixed Mode, High Power					**Mixed Mode, High Power**					
VY2ZM	2,331,200		P33W (RA3AUU, op)	4,891,512		VA2WA	1,628,433		4X6FR	3,567,690
K3CR (LZ4AX, op)	1,786,428		UW2M (URØMC, op)	3,846,974		W3UA	1,626,570		HA3NU	3,391,281
VE3AT	1,731,240		UPØL (UN9LW, op)	3,655,175		KC1XX (DL8DYL, op)	1,600,355		P3Z (5B4AFM, op)	3,071,200
VE3EJ	1,700,616		CR6K (CT1ILT, op)	3,284,286		W6NV	1,172,408		IR1G (IZ1LBG, op)	2,886,647
NR3X (N4YDU, op)	1,423,632		OM5ZW	3,086,025		NQ4I (VE7ZO, op)	1,171,304		EU1A	2,347,526
K7JR (KL9A, op)	1,235,520		ES5TV	3,074,990		WO4O	841,128		HA6P (HA6PX, op)	1,814,310
K4AB	984,312		A65BP	3,074,868		K9OM	624,490		G2F (G4MKP, op)	1,674,486
K4BAI	955,584		EF2A (EA2OT, op)	2,933,530		N2PP	585,072		VA2WA	1,628,433
N2NT	821,920		RW1A	2,865,980		W1GD	572,236		W3UA	1,626,570
VE3DZ	818,979		UA4S (UA4HTT, op)	2,811,924		W1WMU	481,730		KC1XX (DL8DYL, op)	1,600,355
Mixed Mode, Low Power					**Mixed Mode, Low Power**					
W1UE	978,538		EC2DX	2,402,278		NE9U	386,100		P3F (5B4AGN, op)	3,625,443
N5AW	930,804		II9P (IZ8JAI, op)	2,218,705		KC1DLY	140,400		UZ3A (UX1AA, op)	1,897,454
VA2EW	919,674		9A5Y (9A7DX, op)	2,168,478		K3ZU	111,962		EF8R (EA8RM, op)	1,836,552
K5WA	900,210		LZ8E (LZ2BE, op)	2,128,687		KØOO	105,930		DK8ZB	1,761,032
K6XX	875,525		S5ØA	1,970,326		NK3Y	79,856		P4ØXA (WT2P, op)	981,744
WA1Z	750,308		YO3JR	1,842,321		N7UJJ	77,341		UA9MA	947,952
AD4Z	655,200		UW5Y (US2YW, op)	1,631,982		K8GT	75,624		RA3Y	927,673

K3PA	607,128		KP3Z (NP4Z, op)	1,522,035		KC5FP	63,825		UR6EA	920,636
VO1TTT (VE9AA, op)	533,178		NP2X (K9VV, op)	1,436,610		N9TF	52,535		NP2P (N2TTA, op)	900,882
NA8V	530,058		3V8SS (KF5EYY, op)	1,411,408		W3CQB	49,662		SP9H	769,436
Mixed Mode, QRP						Mixed Mode, QRP				
K2GMY	12,312		HG6C (HA6IAM, op)	404,840		N1CC	7,850		DK3WE	656,460
N9EP	10,137		IZ3NVR	363,465		K8ZT	2,662		IZ8JFL/1	279,476
VA3QV	9,884		OK7CM	277,092		WA8HSB	2,163		LZ7H	71,280
N7FG	1,500		US2IZ	263,472					UR5XMM	41,406
KFØX	1,445		HA1WD	244,260					RT3W	16,182
N7XY	768		UX9Q (UR9QQ, op)	178,695					LY5G	11,092
VE5DLD	644		9A2EY	162,992					N1CC	7,850
AF9J	235		UX8IX	127,890					JK1TCV	5,600
			LY5Q	119,394					K8ZT	2,662
			KP4KE (NP4LW, op)	113,652					WA8HSB	2,163
Phone Only, High Power						**Phone Only, High Power**				
K5TR	1,249,740		YV1KK	2,311,122		W3LL	305,939		ES6RW (ES5RW, op)	1,993,012
W7WA	979,755		V51WH	1,602,180		KØVXU	209,409		EF8U (EC5AN, op)	1,800,088
NO5N	312,543		EA1FDI	1,568,400		N8BI	158,760		IZ8EPX	1,555,984
AD5XD	285,090		K5TR	1,249,740		W1CTN	153,621		IKØPHY	1,518,690
NR6Q	266,988		PJ4DX	1,218,602		N4MM	137,760		IB4A	1,495,640
K3ZJ	235,554		W7WA	979,755		VE2NTT	62,952		YP7P (YO7LFV, op)	1,261,410
N2RJ	164,574		US5D (UT7DX, op)	821,408		K4ADR	51,600		YR9F (YO9FNP, op)	1,135,372
W7ZZ	161,092		EA3CI	762,773		AB1NE	41,876		IO4W (IZ4AFW, op)	1,051,050
N3NR	150,516		G1XOW	743,629		KK4LGC	33,078		HB2K (HB9OCR, op)	659,014
K1KNQ	121,856		RV3FF	697,392		N8PCN	32,368		8SØC (SMØMPV, op)	519,821

Phone Only, Low Power						Phone Only, Low Power				
KX4R	275,500		HA3DX (HA4XH, op)	1,167,880		VE1WOW	89,046		UR2Y (USØYW, op)	464,202
ND4Y	163,875		EI1A (ON4EI, op)	745,433		KA2KON	88,008		EC5NJ	418,000
K5DHY	54,360		EA5HRV	557,865		WUØB	54,964		YV2CAR	417,420
N7MZW	51,127		USØHZ	551,310		N2ESP	35,175		UT8EL	406,105
VE2HIT	47,175		DF2F (DF2SD, op)	386,022		N2JF	20,466		YT5IVN	335,475
K4WES	27,010		UT7QL	370,443		WS6K	12,455		RA9V	307,020
KB8LFA	24,990		RC7KY	333,697		KG7GYI	12,240		HB9EYP	280,160
VA3GD	21,000		KP2/AA1BU	298,333		AB5NX	11,178		SQ6DX	246,238
VE1SQ	19,812		WP4PGY	288,875		K4BBH	10,872		IT9EWR	217,080
WA2QAU	18,370		UA9R	280,158		NN4RB	9,400		SQ4JEN	208,890
Phone Only, QRP						**Phone Only, QRP**				
W6QU (W8QZA, op)	11,100		HA5BGG	84,185		AK8H	21,945		LZ1DM	177,140
N4ZAK	4,750		HB9EGA/P	68,663		N9NBC	1,760		UT3EK	52,503
KIØII	1,872		ON7BA	56,544					YP8W (YO8SEP, op)	34,408
VE3LJQ	1,554		SV3AUW	54,172					AK8H	21,945
WBØIWG	1,395		SP4LVK	53,482					PC2F	18,000
AB3WS	608		UT1PG	46,455					N9NBC	1,760
KK7VL	189		IK1BBC	37,300					PY2VQ	1,298
KJ5T	105		YO9XC/P	22,050					UN9LAB	589
			CT7AIX	21,190					KP3ER (NP4RA, op)	497
			TG9ANF/4	15,336						
CW Only, High Power						**CW Only, High Power**				
W1KM	1,706,516		R3ZZ	2,273,939		K9NW	1,037,316		SN7Q (SP7GIQ, op)	2,989,884
K5GN	1,567,328		UW1M	2,241,120		K1MK	1,004,496		RT9A	2,799,424
AA3B	1,469,862		IO2X (IK2NCJ,	1,995,357		N3AD	979,368		P4ØW (W2GD,	2,768,775

			op)						op)	
N2IC	1,401,504		RU9AC	1,789,864		N7AT (K8IA, op)	952,134		RT9S	2,675,100
K1ZD (K1ZZ, op)	1,385,290		W1KM	1,706,516		VO1MP	949,725		YR8D (YO8TTT, op)	2,239,200
W7RN (N6TV, op)	1,061,956		OG2P (OH2PM, op)	1,698,800		N5XZ	900,060		IR2C (IK2PFL, op)	2,219,425
WXØB (AD5Q, op)	1,030,744		EU5T (EW2A, op)	1,665,298		N4BP	878,085		UTØU (UT5UDX, op)	1,711,476
KØEJ	869,440		ZF2ET	1,604,955		K3WW	780,946		OQ5M (ON5ZO, op)	1,617,972
W1WEF	767,688		K5GN	1,567,328		K5CM (W5CW, op)	709,583		ED2C (EA2CW, op)	1,335,047
N4WW (WF3C, op)	759,066		AA3B	1,469,862		N3UA	690,336		SP2LNW	1,230,720
CW Only, Low Power						**CW Only, Low Power**				
K7SV	682,962		5H3EE	1,381,009		KØRF	753,948		C4I	2,509,578
WJ9B	383,830		S57K	1,373,922		N9NB	668,430		UT4LW	1,485,512
W1QK	367,780		LY5R	1,179,745		W3KB	277,884		S53V	1,307,538
WI2E	323,840		RU1A (RV1AW, op)	1,091,800		WA1FCN	227,768		DLØUM (DL7FER, op)	1,180,323
W1UJ	321,342		R3KQ	1,007,290		K6WSC	193,362		R7MM	1,037,768
K7WP	246,720		RX9AF	979,308		WK4AA	170,291		OL5Y	1,002,430
AE5GT	234,220		HA3LN	943,872		K2XR	156,684		YT2AAA	993,744
NB1N	221,112		UA5F	921,250		NM5M	149,985		YO5LD	966,440
KV8Q	203,835		UN6LN	903,364		K2ZR	140,296		R3QA	915,565
N5KWN	181,722		HA7GN	771,687		AB9YC	109,920		SCØN	906,840
CW Only, QRP						**CW Only, QRP**				
W7YAQ	131,784		F5VBT	545,192		KA7T	22,140		OK2FD	704,352
K3TW	49,665		HA3MY	367,830		AB3RU	9,135		SDØT (SMØTHU, op)	110,484
K2YGM	43,875		UR5GAW	221,988		VE9BWK	8,505		UX5UU	109,375
K8CN	39,808		UA1CUR	160,965		K2AL	6,440		LZ8U	96,300

KB8V	24,769		HG3C (HA3HX, op)	156,220		NV1W	2,528		DL1RNN	71,955
VA3SB	14,440		OH5YU	147,678		WE5EE	1,160		F5IYJ	50,505
WDØT	10,350		W7YAQ	131,784		NK5G	1,056		JQ1NGT	22,366
WO9S	9,579		DL8TG	123,660		KI4MZC	798		KA7T	22,140
KI4FW	7,276		R1AT	122,400		K3OQ	270		CT1DRB	21,712
KU4A	6,448		RW3AI	111,510					HA4FY	16,107
Multioperator, Single Transmitter										
KE3X	2,046,656		RM9A	5,443,893						
VE3UTT	1,312,598		IR4X	4,679,200						
K8AZ	1,221,024		IR4M	3,914,394						
N1LN	1,023,960		RM5A	3,727,500						
WW4LL	920,520		HG7T	3,675,566						
K2R	849,780		HG6N	3,455,625						
K2LE	777,768		EA3PT	2,572,920						
WØLFA	732,222		RF9C	2,390,604						
NX6T	530,502		PI4DX	2,206,974						
AD4ES	519,844		KE3X	2,046,656						