IARU HF World Championship 2021 Full Results

By Bob Raymond, WA1Z (bobraymondwa1z@gmail.com)

With 5,211 logs submitted this year, the 2021 edition of the IARU HF World Championship saw an eight percent drop from the all-time high achieved last year. Overall, it is only the third time in the history of the contest that more than 5,000 entries have been received.

The eight percent reduction is almost entirely attributed to twenty-four percent fewer logs received from North American stations. While that sounds significant, North American submissions were still on par with years prior to 2020. Log submissions throughout the rest of the world remained roughly the same.

Multiplier opportunities remained steady. Fifty-four ITU zones were activated, which is the same as 2020. IARU Headquarter operations increased from fifty-six to sixty-eight. Ten Administrative Council members and ITU Region representatives were active.

Propagation

The geomagnetic field remained generally quiet with the planetary K index never rising above 2 during the 24-hour contest period. Quiet conditions meant an increased chance high latitude paths would provide openings between different parts of the world, such as the path between Europe and the Pacific.

Stan, AH6KO, and Kent, KH6CJJ, put in CW Only Low Power efforts and reported being quite satisfied with openings to Europe on 20 meters during their local evening hours. Stan, who used a newly-installed Spiderbeam© tri-bander, wrote in his 3830scores.com post, "great opening from Hawaii to EU on 20m after 0200Z … it sure was fun!"

This polar path is generally not a source for many contacts, especially for low power stations, but Kent, who used a 3-element SteppIR at 35 feet, pointed out in his 3830scores.com post that the good 20 meter opening "really helped with mults!"

The Solar Flux Index (SFI) had risen into the nineties the week leading up to the contest, but fell back to the mid-seventies by the weekend. Without a strong Sporadic E opening, neither 15 nor 10 meters would likely challenge 20 meters as the high-rate "money band" at this point in the cycle. Regardless, one must never take their ears off these two bands for too long. Fifteen and ten meters provide key, but fleeting, multiplier opportunities vital to a winning score.

You may recognize Martin as LU9EFO, but he and his wife now reside in her home country of Brazil. Martin's Phone Only, Low Power entry was his first from PY-land with his new station and callsign, PT2ZDX. Photo courtesy Martin, PT2ZDX.

"You never know what you will get for conditions in the Summer," said Randy, K5ZD, in his post on 3830scores.com. He reported from his QTH in Massachusetts, "hearing Europe on 10 meters at the start, in the afternoon until after sunset, and again on Sunday morning. Worked some Europeans on 15 meters at 4 am local time here!"

"It was so amazing to have 15m open at 5am," said Ted, N9NB, who operated with Mike, W9RE, in Indiana, "I had

suggested to Mike that we try it, and sure enough, he was amazed and yelled out 'Europe!'….and 10m open to EU at 6am, just incredible."

Kevin, N5DX, who operated with N2QV in the multioperator category, noted in his 3830scores.com post, "10 was up and down throughout the contest, but it's been down for so many years that just a peep out of EU is enough to make you sit up and get excited!"

Single Operator

In the W/VE Mixed Mode, High Power category, Randy, K5ZD, and Ron, VE3AT, earned first and second place, respectively, distancing themselves from the rest of the pack with impressive scores that each exceeded two million points.

The battle for third place fell to Nate, N4YDU, operating as NR3X in North Carolina and Mike, N7MH, operating as W6YX from the Stanford University Amateur Radio Club in California. Nate finished ahead of Mike's score by less than 0.5%, earning third place in the cross-country battle.

Dan, N6MJ, operating as ND7K from the Arizona QTH of N6WIN, took top honors in the W/VE CW Only, High Power category while resetting his own ITU Zone 6 record. Dan has long been known for pushing the limits of operating innovation to go along with his immense operating talent. While many of us are challenged enough with Single Operator Two Radio (SO2R) style of contesting, in recent years, Dan has worked hard to maximize the use of a third radio. According to his station host, Tim, N6WIN, Dan was able to monitor a third open band by keeping an eye on a waterfall display, picking-off stations to work in between operating the other two bands. Tim estimates that Dan was able to augment his log by about 200 QSOs with the third radio.

Jozef, OM3GI operating as CR3DX, set a new African Mixed Mode, High Power record on his way to winning first place in the category for the world nearly doubling the score of second-place finisher and top European scorer, Slava, US2YW, operating as UW5Y.

In his 3830scores.com report, Juan, EA8RM, shared news of significant antenna damage to his high band antennas and a 160 meter dipole due to bad weather a couple days before the contest. Juan would not be defeated, repairing as much as possible before the contest, and went on to break the CW Only, High Power World record.

The sun sets on the EA3X antenna farm, which includes a G3TXQ 6-band Hexbeam and rotatable dipole for 40 meters Mia finished with the top score in Spain in the CW Only, Low Power category. Photo courtesy Mia, EA3X.

The Mixed Mode, Low Power race was a close one with Peter, KU2M, and Jeff, N8II, locked in battle, each putting in about ten hours of operating – just enough time in the chair to finish at the top of the category!

Peter reports in his 3830scores.com post to be in disblief when he heard 10 meters open to Europe at 1857z from his New Jersey QTH musing, "I carefully checked the radio and antenna connections - was I on a different band?"

It was a 40 through 10 meters only affair for Jeff at his QTH in West Virginia as he fought to keep pace with Peter. Jeff caught the same 10 meter opening to Europe roughly around the same time as Peter as they both picked off mostly the large HQ stations running on the band.

Matteo, IZ3EYZ, used the contest as an opportunity to test out a new hilltop QTH with a completely temporary station that would still be impressive at any fixed station (a Force 12 tribander for 20 through 10 meters along with dipoles and verticals for the low bands). The result of his effort was a first-place finish in the World Mixed Mode, Low Power category with a good head-to-head match-up with runner-up, Oleg, MU2K.

In the Phone Only categories, frequent winner Dan, W7WA, ran away with the victory this year in W/VE High Power. A much closer race occurred between Fred, F5USK operating as F8KGM, who edged out Serge, EU1W, for first place in the World High Power category.

Single Operator W/VE Division Records			
MIX: Mixed Mode; CW: CW Only; PH: Phone Only; HP: Over 150W; LP: 150W or less; QRP: 5W or less			
Division	**Category**	**Callsign**	**Score**
Northwestern	CW-HP	N9RV	1,876,350
Roanoke	CW-QRP	N4IJ	91,168
Rocky Mountain	PH-QRP	WWØWB	3,900
Southwestern	CW-HP	ND7K (N6MJ, op @N6WIN)	2,414,192
West Gulf	CW-QRP	NX5M	292,740

Single Operator Continental Records			
MIX: Mixed Mode; CW: CW Only; PH: Phone Only; HP: Over 150W; LP: 150W or less; QRP: 5W or less			
Division	**Category**	**Callsign**	**Score**
Africa	MIX-HP	CR3DX (OM3GI, op)	5,877,186
Africa	CW-HP	EA8RM	4,949,913
Oceania	MIX-QRP	FK8IK	26,136

Single Operator Unlimited

Record-breaking efforts continue to be the theme in the nascent Single Operator Unlimited categories – a trend likely to continue through Solar Cycle 25. Bud, AA3B, and Jack, R2AA, both reset their own records. Bud raised the W/VE CW Only, High Power bar to just under 3.5 million points while Jack nudged higher his 2018 World record in the Mixed Mode, High Power category with a score just shy of 4.3 million. Santiago, EA3O, also set a new world record in the Phone Only QRP category.

Ty, K3MM, led the pack in the W/VE Mixed Mode, High Power category with a decisive win after what he believes is a long absence from the contest. Ty reports in his 3830scores.com post his last effort "might be the '96 WRTC!"

Paul, UR6EA, finished first place in the World Mixed Mode, Low Power category after using the contest to play with his new Ukrainian-built SDR transceiver called the Ермак (Ermak).

Jon, EA2W, had an impressive result in the CW Only, High Power category, leading the World as the only other single operator other than CR3DX to break the 5-million-point threshold.

On his way to a first-place finish in the W/VE CW Only, Low Power category, Paul, K1XM, remained adaptable when he realized his initial strategy wasn't working. "I wasn't having much success running so I chased multipliers," Paul said in his 3830scores.com post, "this seems to have been a good strategy this year."

ARRL Division and continental records continue to fall with several major efforts across the world. Don't be left out of the fun in 2022! Check out the records page on the Web; can you beat your division's record in your favorite category next year?

Single Operator Unlimited W/VE Division Records			
MIX: Mixed Mode; CW: CW Only; PH: Phone Only; HP: Over 150W; LP: 150W or less; QRP: 5W or less			
Division	**Category**	**Callsign**	**Score**
Atlantic	MIX-HP	K3MM	1,810,728
Atlantic	PH-LP	N3AAA	108,528
Atlantic	CW-HP	AA3B	3,493,216
Canada	CW-HP	VE3NNT	1,801,250
Canada	CW-LP	VE3MGY	676,172
Central	MIX-HP	WB9Z	1,414,842
Central	MIX-QRP	KD9LTN	1,236
Central	CW-LP	KG9X	569,350
Dakota	MIX-LP	K4IU	209,844
Dakota	PH-LP	KØTJT	10,080
Delta	MIX-QRP	AC5O	62,988
Delta	CW-HP	AD4EB	1,359,680
Delta	CW-LP	K3IE	628,728
Hudson	MIX-LP	KI2D	147,400
New England	MIX-QRP	W1WBB	1,066
New England	CW-HP	KO7SS	2,821,584
Northwestern	MIX-LP	KA6BIM	306,307
Northwestern	CW-HP	N7DX	853,335
Roanoke	CW-HP	N4AF	2,004,492
Rocky Mountain	MIX-HP	KEØUI	402,867
Rocky Mountain	MIX-LP	AD1C	147,320
Southeastern	MIX-HP	K4AB	1,419,330
Southwestern	MIX-HP	KK6P	747,648
Southwestern	CW-HP	NT6Q (N5ZO, op)	1,407,627
Southwestern	CW-QRP	W7JET	3,614
West Gulf	CW-HP	N5RZ	1,708,630

Single Operator Unlimited Continental Records			
MIX: Mixed Mode; CW: CW Only; PH: Phone Only; HP: Over 150W; LP: 150W or less; QRP: 5W or less			
Division	**Category**	**Callsign**	**Score**
Africa	PH-LP	EC8AQQ	70,030
Asia	MIX-HP	4X6FR	3,898,782
Asia	CW-QRP	JH7VHZ	163,254
Europe	MIX-HP	R2AA	4,287,360
Europe	PH-HP	HA3NU	2,447,175
Europe	PH-LP	ES6RW	861,039
Europe	PH-QRP	EA3O	227,532
Europe	CW-HP	EA2W	5,015,544
North America	PH-LP	HI8RD	335,385
Oceania	MIX-LP	YB9UA	38,340
Oceania	PH-HP	DU1AV	109,979
Oceania	CW-LP	AH6KO	465,675
Oceania	CW-QRP	YD9UW	5,712
South America	CW-HP	P44W (W2GD, op)	3,461,120

Multioperator

Many Multioperator stations reported getting teams back together in person in 2021. Log submissions rebounded from the COVID-19 induced dip in 2020 with a nearly fourteen-percent increase (141 entries, up from 124), but remain off pre-pandemic peaks above 160.

Congratulations to the N5DX team, a partnership between Kevin, N5DX and Tariq, N2QV, on their new W/VE Multioperator record. The pair joined forces at Tariq's QTH in central New York driving the N2QV station to a score of 3.4 million, besting the previous record by nearly 500,000 points.

The RM9A Multioperator team continued their dominance with their third World first place victory in four years while fending off a strong challenge by the RU1A team.

The DP7D Multioperator team hard at work – Holger, DF1QR; Marco, DJ4MH, and Holger, DL9EE – Photo courtesy Holger, DF1QR

Headquarters and IARU Special Stations

After three consecutive first place finishes from 2017 through 2019, TMØHQ (REF) returned to the top spot in the Headquarters station battle after being knocked off by DAØHQ (DARC) in 2020.

NU1AW (IARU) was activated by a nineteen-operator team (AD5XD, K5CD, K5DU, K5GN, K5NA, K5PI, K5RT, K5WA, KG5U, KG5VK, KI5MM, N5AUS, N5OT, N5TIT, NT5V, WØUO, W5PR, WA5FWC, and WA5RR) from the West Gulf Division manning thirteen stations across Oklahoma and Texas. The team dodged quite a bit of lightning activity throughout the night while trying to stay on the air and get the team over 8,000 QSOs.

W1AW/KL7 (ARRL) wsa operated by KLØR, KL7SB, KI6RRN, NL7S, KA1NCN, AL2F, AL1G, KTØR, N1TX/KL7, KL1JP, WB2TQE, and KL7TS.

IARU Headquarters Stations	
Call	Score
TMØHQ	25,640,388
DAØHQ	24,593,730
S5ØHQ	24,055,135
IOØHQ	22,407,660
SNØHQ	21,054,330
OL1HQ	20,973,210
GR2HQ	19,888,896
9AØHQ	19,634,912
YTØHQ	18,581,724
OF1HQ	17,531,830
EF4HQ	17,380,254
LYØHQ	15,663,327
EM5HQ	14,700,303
E7HQ	14,538,802
OPØHQ	14,245,147
OEØHQ	13,955,157
HGØHQ	10,866,746
YRØHQ	10,306,525
OZ1HQ	10,177,160
UN1HQ	10,165,950
YL4HQ	9,970,520
PA6HQ	8,985,480
SK9HQ	8,457,044
NU1AW	6,073,122
EW5HQ	5,482,026
A6ØHQ	4,778,576
RØHQ	4,745,472
EIØHQ	4,427,480
LX8HQ	3,968,259
W1AW/KL7	3,830,535
8NØHQ	3,584,008
ER7HQ	3,406,023
BØHQ	3,046,694
L21RCA	2,493,972
LZØHQ	2,267,065
VA2RAC	1,957,648
Z3ØHQ	1,730,702
DXØHQ	1,717,969
CR5HQ	1,565,840
SXØHQ	1,558,624
OM1HQ	1,472,196
CX1AA	1,439,018
ES9A	941,704
E2HQ	895,856
HZØHQ	762,840
OY1CT	532,608
9Y4HQ	526,218
T4ØHQ	479,050
TC3HQ	464,427
OA4O	352,428
7A2HQ	304,048

PX2HQ	253,894
A71HQ	227,556
9M2A	175,010
9H1MRL	150,784
4LØG	145,770
LN2HQ	140,484
Z6ØA	116,686
BV3ØHQ	78,457
VK3WIA	32,650
VU2ZH	10,023
EX9HQ	9,724
HIØHQ	8,760
9V1HQ	8,352
YS1YS	8,300
VR2HK	4,290
HC2GRC	930

IARU Administrative Council Stations	
G5W	3,016,516
W5ZN	632,337
PB2T	158,935
YBØAZ	140,491
VE6SH	50,813
IARU R1	
SM6EAN	633,798
DJ3HW	609,756
IARU R2	
VE3YV	10,277
IARU R3	
JA1CJP	192,348
HS1FVL	45,594

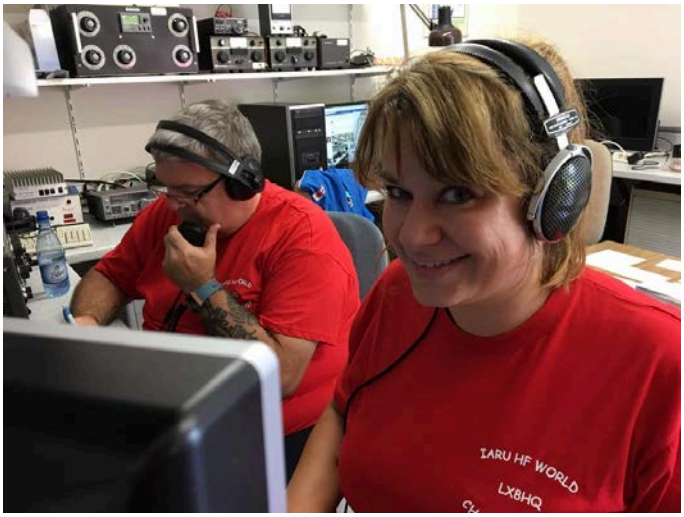
Thanks to the World Wide Radio Operators Foundation (WWROF, www.wwrof.org) for providing the log-scoring for the HQ station competition.

New Friends

It's always great to hear about first timers in the Soapbox comments. The following reported either operating for the first time ever in a contest or operating for the first time in IARU HF: 2EØSVO, IUØOVB, IU1MRH, IZ4GRP, OH8AH, PA2ADX, PA5UL, PA7TG, PDØGTO, and VY2DP.

Joao, PY2TI, also commented in his soapbox message that he and his 15-year-old son, Emmanuel, PU2VLI, did their first multioperator effort together!

Great job and welcome, all!



Jean-Marie, LX1JH, and Mendaly, LX2VY busy giving out the Radioamateurs du Luxembourg (RL) Headquarters multiplier from LX8HQ. Photo courtesy LX8HQ team.

Getting Ready for the Next World Radiosport Team Championship

The next World Radiosport Team Championship (WRTC) would have been held in Italy concurrently with the 2022 IARU HF World Championship. Unfortunately, WRTC 2022 (www.wrtc2022.it) has been pushed back one year.

With the qualification processing having been completed, qualifiers are now getting ready for the event. Under normal circumstances, we would have seen several "scouting trips" to Italy by a few competitors to operate the contest closer to where WRTC 2022 will be held. These trips allow competitors to get some practical experience operating this specific contest from the host country ahead of the real event. With travel restrictions due to Covid-19 being in place in most of the world, it is no surprise that we did not see such trips happen in 2021. However, that didn't stop many teams from practicing, albeit closer to home.

A scrimmage broke out among a group of WRTC competitors (and others interested in joining the fray) when two of the qualified North American teams, Scott, NE9U/Craig, K9CT and Mike, W9RE/Ted, N9NB announced on the CQ-Contest email reflector that they intended on having "a little competition for the fun of it following the WRTC rules."

WRTC 2022 will be a Multioperator, Two Radio (Multi-Two) competition with stations limited to 100 watts output. Multi-Two is not an official category in the IARU HF, but by the starting bell, at least four other qualified

Team Leaders joined up with a partner to operate the contest following (or close to following) WRTC rules:

- Todd, VE5MX, (Team Leader qualifier from North America Region 8) with John, VE3EJ, as his partner operated High Power from the VE3EJ QTH.
- Mathias, CE2LR, (South America Region 3) with Roberto, CE3CT, as his partner operated High Power from the CE3CT QTH.
- Gilles, VA2EW, (North America Region 2) with Victor, VA2WA, as his partner operated Low Power as VA2RAC from the VA2EW QTH.
- Francis, BA1RB, (Asia Region 4) with Dale, BA4TB, as his partner operated Low Power from the BA4TB QTH.

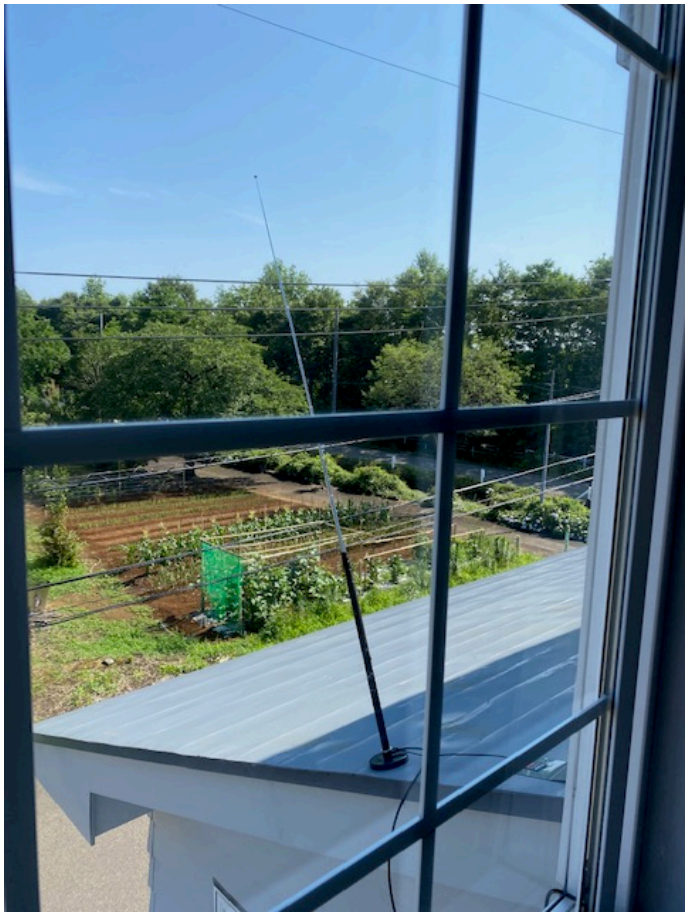
Even though WRTC stations are limited to 100 watts, the act of assembling a station is not an easy one from a technical standpoint. Mike, W9RE, reported unexpected issues with headsets and a bad computer network card while getting things set up. Having a chance to do a "dress rehearsal" of setting up a station with equipment teams intend to bring with them can reveal important issues that can be resolved before traveling to the event.

"It was great fun to be in competition with Scott and Craig and we all enjoyed the back and back forth in the scoring on the 'Online scoreboard'," said Mike, W9RE.

Ted, N9NB, noted, "We had fun learning how to talk in the mic without disturbing the other operator (e.g., not yelling too loud or turning our backs at just the right angle, especially when Mike called on 80m or me on 20)."

And while WRTC competitors take seriously the opportunity to participate in the event, Ted shared a comment that I believe highlights the most important part of any multi-op. When asked for his highlights of the weekend, the first thing Ted commented on had nothing to do with the contest itself. Rather, he said, "I cannot think of much to add except it was Dave (W9PA) and Diane's 56th anniversary, and we all went out with W9RE and his XYL and [John] W9TC and his XYL!"

It's a great reminder that *camaraderie* is an essential ingredient in what makes Radiosport so great. Even after all the great propagation, high rates, and exotic multipliers that give us that high we seek in every contest, sometimes the most enjoyable - and most important - parts of a contest weekend have nothing to do with radio itself.



There is always a way to get on the air, as proven in this photo by Aki, JJØSFV, who uses this mobile whip antenna mounted on his home's metal roof to get on the air in Niigata Prefecture, Japan. Aki made 26 QSOs in the Single Operator, Mixed Mode, Low Power category. His best DX was with George, K5TR, in Texas on 40 meters! Photo courtesy JJØSFV.

Onward to 2022

Save the date for the weekend of July 9-10, 2022 when the next IARU HF World Championship fills the airwaves. The contest always starts at 1200z on Saturday and runs a full 24 hours. Let's hope for more sunspots and even more activity next year in this great contest!

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**				
K5ZD	2,759,350		CR3DX (OM3GI, op)	5,877,186		K3MM	1,810,728		R2AA	4,287,360
VE3AT	2,275,254		UW5Y (US2YW, op)	2,960,640		K4AB	1,419,330		US1Q (UR5IFB, op)	4,088,144
NR3X (N4YDU, op)	1,279,680		K5ZD	2,759,350		WB9Z	1,414,842		4X6FR	3,898,782
W6YX (N7MH, op)	1,273,993		S53MM	2,458,638		W1GD	1,170,364		HA5JI	3,631,236
KØEJ	1,177,256		VE3AT	2,275,254		VA3DF	874,888		YT5A	2,808,157
WØEWD	809,424		TO5GR (UT5UGR, op)	1,757,154		K3WJV	791,536		K3MM	1,810,728
AJ6V	437,523		EA4KD	1,423,072		WO4O	786,546		RW9DX	1,712,430
WQ5L	421,502		JH4UYB	1,339,502		KK6P	747,648		RA6CA	1,565,550
K6XX	418,125		NR3X (N4YDU, op)	1,279,680		VE3RZ	648,613		K4AB	1,419,330
KR2Q	269,000		W6YX (N7MH, op)	1,273,993		WA3AAN	416,150		WB9Z	1,414,842
Mixed-Mode, Low Power						**Mixed-Mode, Low Power**				
KU2M	386,828		IY3A (IZ3EYZ, op)	1,955,573		VA2EBI	310,536		UR6EA	1,659,812
N8II	342,544		MU2K (RL5D, op)	1,832,952		KA6BIM	306,307		LZ3ZZ	1,581,250
VE3TG	230,184		RA3Y	1,101,260		K9OM	273,512		ED1R	832,284
N2EM	178,434		4U1A (HB9RB, op)	868,192		K4IU	209,844		SE4E (SM4DQE, op)	756,674
KØEA	116,768		RW4WA	622,750		KI2D	147,400		RW4W	716,870
K5XU	110,638		OM5WW	539,903		AD1C	147,320		R5AJ	640,343
VE5KS	89,280		PY2NY	518,869		VE3PJ	135,954		HA5PP	590,287
K5FUV	75,012		EU2F	458,887		VE3GFN	102,144		US7IY	587,799
KAØPQW	74,718		UT3SO	438,783		K1VU	95,370		HA6PJ	518,518
K6GHA	69,368		DL3RHN	435,296		WT8WV	67,490		DM7EE	502,605
Mixed-Mode, QRP						**Mixed-Mode, QRP**				
NE5TH	17,056		LY5G	474,100		AC5O	62,988		DK3WE	804,572
KKØU	3,795		HA7UI	308,464		K8ZT	17,679		DDØVS	110,387
K2GMY	854		HA5BA	273,792		KD9LTN	1,236		YU1LM	77,616
VE2SSS	228		UR5FEO	196,175		W1WBB	1,066		AC5O	62,988
N6HI	224		R2PU	193,590		AG4CC	440		IZ3NVR	62,424
KT3P	119		HG6C (HA6IAM, op)	177,177					DJ3EI	44,100
			OK7CM	136,948					PC5D	43,363
			PC2F	124,405					DKØRPO (DF7IS, op)	29,316
			9A2EY	80,625					K8ZT	17,679
			UT5EOX	64,752					SP9RQH	10,317
Phone Only, High Power						**Phone Only, High Power**				
W7WA	1,172,696		F8KGM (F5USK, op)	1,392,768		W3LL	557,842		HA3NU	2,447,175
W6AFA	192,100		EU1W	1,380,730		N8BI	143,472		OR1X	1,808,928
N4MM	97,240		W7WA	1,172,696		AEØMO	137,396		SO9I (SQ9ORQ, op)	1,806,931
AA8DC	80,984		EA3CI	1,141,077		N7ZUF	56,414		CR6K (CT1CJJ, op)	1,790,085

KE8FT	77,616		RA3OA	1,099,400		W9NZ	54,740		LY5W	1,345,508
K9MWM	76,980		ED3C (EA3IBV, op)	1,026,640		K2ANZ	42,039		ED8W (EA8DO, op)	1,205,184
VE3BFU	51,680		A65BB	664,960		KC3D	39,185		OH6LI	1,149,320
WW5L	42,624		RW9LL	600,903		VA3LR	31,570		IKØPHY	1,101,600
VA3ZNQ	42,458		DF2F (DF2SD, op)	552,948		VA3WW	29,670		DL7BC	843,840
ND1X	32,897		F5LIW	470,400		N5GI	28,770		OL7T	734,048
Phone Only, Low Power						**Phone Only, Low Power**				
VA3NW	94,000		9A3B (9A2VR, op)	647,942		N3AAA	108,528		ES6RW	861,039
WZ8T	67,628		EA8AM	431,028		VA3IDD	48,545		HGØR (HAØNAR, op)	845,614
NG1M	53,268		PA2TMS	426,312		W4BTW	29,520		UR2Y	680,175
K5DHY	52,622		TA3DE	256,207		VE3HZ	24,616		YO7SR	587,664
KS2G	46,371		EA6AMM	254,016		KM4IAJ	20,475		SV3RPQ	348,096
KJ4UBL	33,516		OE1HHB	251,738		KA2KON	18,240		HI8RD	335,385
VA3TPS	32,832		IV3ZYB	220,761		KD2JOE	15,635		SOØN (SQ9CNN, op)	288,708
N6OKU	32,643		RC7KY	217,128		KØTJT	10,080		EW7B	270,930
VE2HIT	27,324		DM2BR	198,562		KC3RGK	9,744		UA9R	257,920
WA4JA	26,740		CT2IMG	197,284		WS6K	9,010		SO7E	239,259
Phone Only, QRP						**Phone Only, QRP**				
WWØWB	3,900		DL8LR	137,104		*No Entries*			EA3O	227,532
VA3MYC (VE3LJQ, op)	2,093		OM3KHT (OM7ANT, op)	67,716					UZ7M (UT9MZ, op)	227,180
			HB9EGA	67,365					YO8WW	209,032
			TG9ANF	40,491					HG6V (HA6IHA, op)	112,413
			SP4LVK	37,944					LY2BGP	4,263
			OZ/SO2U (SP2UUU, op)	30,885					IW3GST	2,080
			HA1TI	28,320					SY2COB	1,188
			UR7TV	27,579					EA5JDG	198
			9A4OP	25,026						
			DKØBM (DK7CH, op)	21,185						
CW Only, High Power						**CW Only, High Power**				
ND7K (N6MJ, op @N6WIN)	2,414,192		EA8RM	4,949,913		AA3B	3,493,216		EA2W	5,015,544
W1KM	2,117,920		EA6FO (EA3M, op)	3,527,619		KO7SS	2,821,584		ES5RR	3,869,383
K2ZW	1,936,512		RT5Z (RA3CW, op)	2,793,380		K3WW	2,277,330		IR2Q (IK2PFL, op)	3,763,766
N9RV	1,876,350		KP2M (KT3Y, op)	2,484,075		NY3A	2,057,370		AA3B	3,493,216
N3AD	1,734,853		ND7K (N6MJ, op @N6WIN)	2,414,192		N4AF	2,004,492		P44W (W2GD, op)	3,461,120
K1KI	1,615,075		W1KM	2,117,920		VE3NNT	1,801,250		UW1M	3,396,096
KØRF (WØUA, op)	1,559,180		K2ZW	1,936,512		N5RZ	1,708,630		RT9A	3,194,016
N2IC	1,541,722		N9RV	1,876,350		K3JO (AE2W, op)	1,664,230		YU5R (YT2AAA, op)	2,947,200
NA8V	1,194,184		N3AD	1,734,853		N3RS	1,450,592		P3X (5B4AMM, op)	2,914,051
AD5A	1,147,192		K1KI	1,615,075		NT6Q (N5ZO, op)	1,407,627		S53A	2,852,345

CW Only, Low Power						CW Only, Low Power				
K7SV	825,286		4Z4AK	1,650,068		K1XM	876,360		R8CT	2,125,508
W1QK	448,818		K7SV	825,286		VE3MGY	676,172		HG5D (HA8QZ, op)	1,942,500
W7YAQ	428,940		OM7RU	714,611		K3IE	628,728		RG5A	1,795,842
KØAD	378,500		YL5W (YL2GN, op)	714,175		KG9X	569,350		UT4LW	1,761,420
KM6Z	357,750		OK1CZ	695,019		W3KB	537,522		SN7O (SP7IVO, op)	1,684,980
WJ9B	331,062		UF5A	693,966		N2YO	402,417		UT5EO	1,665,990
W1NN	288,000		LB6GG	650,540		N4XL	373,320		DL3JAN	1,586,410
VE3TM	269,205		HB9ARF	626,628		WA1FCN	349,408		RC9A	1,578,006
VE3MA	212,238		RA3YDA	592,900		VE3YT	296,296		OL5Y	1,572,826
N8NA	201,695		OK2MBP	575,824		VE1ANU	276,374		HA6NL	1,079,262
CW Only, QRP						**CW Only, QRP**				
NX5M	292,740		DK7HA	400,338		KJ5T	11,359		RM5F	628,506
K8CN	91,471		NX5M	292,740		KU4A	4,495		LZ6E	543,095
N4IJ	91,168		DL8MBS	203,448		WB4OMM	4,356		G4ENZ	461,244
N7RCS	67,450		LZ2RS	199,100		W7JET	3,614		HG5O (HA5OB, op)	203,476
AI9K	20,787		HG3C (HA3HX, op)	170,800		KW2A	364		JH7VHZ	163,254
K2EKM	6,372		YL3FW	151,164		KC1DVT	168		PE2K	101,152
AC2YD	5,876		OZ7BQ	132,125					US5EFU	57,820
VE3HG	5,642		K8CN	91,471					DJ7PRM	48,980
KD8DNS	4,730		N4IJ	91,168					RT4W	38,985
KC4IM	3,256		ON6PJ	87,854					OK2TSG	33,567
Multioperator, Single Transmitter, High Power										
N5DX	3,443,553		RM9A	6,233,612						
K5TR	2,408,970		RU1A	5,578,804						
W3UA	2,201,670		LZ5R	4,875,600						
K1MM	1,824,999		UA4M	4,760,484						
W7RM	1,752,336		HG6N	3,746,580						
K8AZ	1,232,036		UA4S	3,583,205						
W2Z	886,665		N5DX	3,443,553						
WW4XX	788,172		IR4M	3,442,069						
N5LCC	659,018		RT2C	3,377,920						
WØECC	644,680		R8IZ	3,189,984						

Regional Leaders

HP: Over 150W; LP: 150W or less; QRP: 5W or less: SO: Single Operator; MS: Multi-Single; MIX: Mixed-Mode

West Coast Region			Midwest Region			Central Region			Southeast Region			Northeast Region		
Pacific, Northwestern, and Southwestern ARRL Divisions; Alberta; British Columbia, and NT RAC Sections			Dakota, Midwest, Rocky Mountain and West Gulf ARRL Divisions; Manitoba and Saskatchewan RAC Sections			Central and Great Lakes ARRL Divisions; Greater Toronto Area, Ontario East, Ontario North, and Ontario South RAC Section			Delta, Roanoke, and Southeastern ARRL Divisions			New England, Hudson and Atlantic ARRL Divisions; Maritime and Quebec RAC Sections		
Call	**Score**	**Cat**	**Call**	**Score**	**Cat**	**Call**	**Score**	**Cat**	**Call**	**Score**	**Cat**	**Call**	**Score**	**Cat**
Single Operator														
W6YX (N7MH, op)	1,273,993	MIX-HP	WØEWD	809,424	MIX-HP	VE3AT	2,275,254	MIX-HP	NR3X (N4YDU, op)	1,279,680	MIX-HP	K5ZD	2,759,350	MIX-HP
AJ6V	437,523	MIX-HP	KVØI	84,084	MIX-HP	K9ZO	189,975	MIX-HP	KØEJ	1,177,256	MIX-HP	KR2Q	269,000	MIX-HP
K6XX	418,125	MIX-HP	KØNM	43,924	MIX-HP	KØPJ	98,384	MIX-HP	WQ5L	421,502	MIX-HP	WA2CP (KC2GOW, op)	129,584	MIX-HP
KS7T	73,780	MIX-HP	KØVG	23,896	MIX-HP	KW8N	69,760	MIX-HP	WS7X	203,770	MIX-HP	N1RR	27,144	MIX-HP
N7RK	35,496	MIX-HP	WØMAR	8,676	MIX-HP	VE3BR	37,422	MIX-HP	N4CF	168,099	MIX-HP	AC3LZ	20,705	MIX-HP
K6GHA	69,368	MIX-LP	KØEA	116,768	MIX-LP	VE3TG	230,184	MIX-LP	N8II	342,544	MIX-LP	KU2M	386,828	MIX-LP
KA7T	52,982	MIX-LP	VE5KS	89,280	MIX-LP	K8RGI	61,490	MIX-LP	K5XU	110,638	MIX-LP	N2EM	178,434	MIX-LP
WA7BNM	40,690	MIX-LP	KAØPQW	74,718	MIX-LP	N8TFD	32,620	MIX-LP	K5FUV	75,012	MIX-LP	WA2JQK	57,148	MIX-LP
WN6W	20,900	MIX-LP	KA8HDE	42,625	MIX-LP	W8UA	23,424	MIX-LP	KB4CG	61,664	MIX-LP	KA2FIR	50,687	MIX-LP
W7WSV	15,510	MIX-LP	WA5LFD	32,800	MIX-LP	AA8OY	19,850	MIX-LP	AC4G	57,165	MIX-LP	W1NU	33,735	MIX-LP
K2GMY	854	MIX-QRP	NE5TH	17,056	MIX-QRP							VE2SSS	228	MIX-QRP
N6HI	224	MIX-QRP	KKØU	3,795	MIX-QRP							KT3P	119	MIX-QRP
W7WA	1,172,696	PH-HP	K9MWM	76,980	PH-HP	AA8DC	80,984	PH-HP	N4MM	97,240	PH-HP	ND1X	32,897	PH-HP
W6AFA	192,100	PH-HP	N5KWD	18,315	PH-HP	VE3BFU	51,680	PH-HP	WW5L	42,624	PH-HP	AD2BO	30,260	PH-HP
KE8FT	77,616	PH-HP	W5GFI	15,136	PH-HP	VA3ZNQ	42,458	PH-HP	WA9TTC	16,236	PH-HP	KZ3P	21,294	PH-HP
AI6LY	9,384	PH-HP	AG5MS	1,512	PH-HP	W9AMV	22,400	PH-HP	W4BBT	13,224	PH-HP	WO2Y	20,060	PH-HP
N7WS	7,425	PH-HP	KDØJLE	848	PH-HP	KE8NBC	20,410	PH-HP	N4CZ	3,434	PH-HP	K1GMM	10,608	PH-HP
WZ8T	67,628	PH-LP	K5DHY	52,622	PH-LP	VA3NW	94,000	PH-LP	KJ4UBL	33,516	PH-LP	NG1M	53,268	PH-LP
N6OKU	32,643	PH-LP	KØSCO	5,709	PH-LP	VA3TPS	32,832	PH-LP	WA4JA	26,740	PH-LP	KS2G	46,371	PH-LP
K7HKR	7,194	PH-LP	W5JEF	5,394	PH-LP	N9EAX	25,012	PH-LP	NC4MI	23,892	PH-LP	VE2HIT	27,324	PH-LP
N7ESU	2,688	PH-LP	KØOP	3,810	PH-LP	VE3RVZ	21,373	PH-LP	KA4FVE	18,496	PH-LP	K3URT	17,050	PH-LP
NS7U	1,740	PH-LP	KF5KWO	3,390	PH-LP	VA3KRT	18,734	PH-LP	KB8VND	17,550	PH-LP	AB2TC	13,110	PH-LP
			WWØWB	3,900	PH-QRP	VA3MYC (VE3LJQ, op)	2,093	PH-QRP						

ND7K (N6MJ, op @N6WIN)	2,414,192	CW-HP		KØRF (WØUA, op)	1,559,180	CW-HP		NA8V	1,194,184	CW-HP		KØZR	1,010,988	CW-HP		W1KM	2,117,920	CW-HP
N9RV	1,876,350	CW-HP		N2IC	1,541,722	CW-HP		K8GL	786,450	CW-HP		K4BAI	693,810	CW-HP		K2ZW	1,936,512	CW-HP
K6NA	806,547	CW-HP		AD5A	1,147,192	CW-HP		K8MP	334,524	CW-HP		K3JT	430,155	CW-HP		N3AD	1,734,853	CW-HP
N6AA	687,352	CW-HP		N5AW	999,785	CW-HP		VE3VN	313,018	CW-HP		NN7CW	385,322	CW-HP		K1KI	1,615,075	CW-HP
N6TV	412,563	CW-HP		N3BB	145,976	CW-HP		KG9N	285,064	CW-HP		N4OX	274,320	CW-HP		K3ZO	632,052	CW-HP
W7YAQ	428,940	CW-LP		KØAD	378,500	CW-LP		KM6Z	357,750	CW-LP		K7SV	825,286	CW-LP		W1QK	448,818	CW-LP
WJ9B	331,062	CW-LP		WØTG	109,554	CW-LP		W1NN	288,000	CW-LP		K4EJ	157,344	CW-LP		N8NA	201,695	CW-LP
N6ZFO	165,321	CW-LP		NN5T	89,664	CW-LP		VE3TM	269,205	CW-LP		WN4AFP	148,364	CW-LP		N1QY	134,351	CW-LP
WN6K	103,972	CW-LP		WØZW	85,946	CW-LP		VE3MA	212,238	CW-LP		NK4O	131,856	CW-LP		KB3AAY	122,616	CW-LP
VA6WWW	65,440	CW-LP		KD2KW	71,328	CW-LP		N8VW	164,101	CW-LP		W4YE	112,056	CW-LP		W3WHK	76,285	CW-LP
WO7T	820	CW-QRP		NX5M	292,740	CW-QRP		AI9K	20,787	CW-QRP		N4IJ	91,168	CW-QRP		K8CN	91,471	CW-QRP
				KIØG	803	CW-QRP		VE3HG	5,642	CW-QRP		N7RCS	67,450	CW-QRP		AC2YD	5,876	CW-QRP
								KD8DNS	4,730	CW-QRP		K2EKM	6,372	CW-QRP		W1UU	660	CW-QRP
								KF4AV	2,352	CW-QRP		KC4IM	3,256	CW-QRP		W1TW	400	CW-QRP
								WB9AYW	1,530	CW-QRP		AA2MA	1,786	CW-QRP		W7LG	56	CW-QRP
Single Operator Unlimited																		
KK6P	747,648	MIX-HP		KEØUI	402,867	MIX-HP		WB9Z	1,414,842	MIX-HP		K4AB	1,419,330	MIX-HP		K3MM	1,810,728	MIX-HP
N9NA	193,960	MIX-HP		W7CXX (WA7LNW, op)	277,608	MIX-HP		VA3DF	874,888	MIX-HP		WO4O	786,546	MIX-HP		W1GD	1,170,364	MIX-HP
K2RD	96,048	MIX-HP		N5HC	112,710	MIX-HP		VE3RZ	648,613	MIX-HP		NF4A	195,517	MIX-HP		K3WJV	791,536	MIX-HP
AI6Z	84,537	MIX-HP		N5WNG	70,983	MIX-HP		N2BJ	223,608	MIX-HP		AF4T	54,112	MIX-HP		WA3AAN	416,150	MIX-HP
N7UJJ	80,850	MIX-HP		KØTRL	27,352	MIX-HP		VE3TW	169,176	MIX-HP		NN4NT	39,442	MIX-HP		K3MD	300,321	MIX-HP
KA6BIM	306,307	MIX-LP		K4IU	209,844	MIX-LP		K9OM	273,512	MIX-LP		WT8WV	67,490	MIX-LP		VA2EBI	310,536	MIX-LP
WB6JJJ	11,703	MIX-LP		AD1C	147,320	MIX-LP		VE3PJ	135,954	MIX-LP		WA4IPU	56,280	MIX-LP		KI2D	147,400	MIX-LP
VE6AX	11,309	MIX-LP		KE5LQ	34,020	MIX-LP		VE3GFN	102,144	MIX-LP		KN4GDX	14,127	MIX-LP		K1VU	95,370	MIX-LP
VA7DXC	6,233	MIX-LP		KØKX	12,688	MIX-LP		N9SE	17,199	MIX-LP		K4VBM	13,122	MIX-LP		K3HW	35,275	MIX-LP
KC7SVI	4,608	MIX-LP		KØMPH	10,150	MIX-LP		W9YK	12,972	MIX-LP		WN8Y	11,521	MIX-LP		NN2NN	26,197	MIX-LP
								K8ZT	17,679	MIX-QRP		AC5O	62,988	MIX-QRP		W1WBB	1,066	MIX-QRP
								KD9LTN	1,236	MIX-QRP		AG4CC	440	MIX-QRP				
N7ZUF	56,414	PH-HP		AEØMO	137,396	PH-HP		N8BI	143,472	PH-HP		KC3D	39,185	PH-HP		W3LL	557,842	PH-HP
N7GCO	18,154	PH-HP		N5GI	28,770	PH-HP		W9NZ	54,740	PH-HP		WJ2D	13,560	PH-HP		K2ANZ	42,039	PH-HP
				KSØEGL	12,375	PH-HP		VA3LR	31,570	PH-HP		W4KW	13,014	PH-HP		KA2K	26,956	PH-HP
				W5ABA	8,404	PH-HP		VA3WW	29,670	PH-HP		K4SBZ	7,240	PH-HP		N2NKX	11,868	PH-HP
								N9RMB	1,624	PH-HP		KE4YOG	6,815	PH-HP		KC2OSR	3,225	PH-HP
KØNG	4,023	PH-LP		KØTJT	10,080	PH-LP		VA3IDD	48,545	PH-LP		W4BTW	29,520	PH-LP		N3AAA	108,528	PH-LP
W7NIK	1,037	PH-LP		AEØLR	8,064	PH-LP		VE3HZ	24,616	PH-LP		KM4IAJ	20,475	PH-LP		KA2KON	18,240	PH-LP
VA6AGR	328	PH-LP		W5IOH	3,366	PH-LP		WS6K	9,010	PH-LP		WA4AH	6,888	PH-LP		KD2JOE	15,635	PH-LP
				K5LGX	1,080	PH-LP		W9PI	6,018	PH-LP		WD4FMG	2,408	PH-LP		KC3RGK	9,744	PH-LP
				NAØED	240	PH-LP		N9VPV	2,134	PH-LP		K4LDC	1,444	PH-LP		K3JSJ	4,059	PH-LP

NT6Q (N5ZO, op)	1,407,627	CW-HP		N5RZ	1,708,630	CW-HP		VE3NNT	1,801,250	CW-HP		N4AF	2,004,492	CW-HP		AA3B	3,493,216	CW-HP
VE7CC	1,221,415	CW-HP		NØAV	803,117	CW-HP		WI9WI	599,829	CW-HP		AD4EB	1,359,680	CW-HP		KO7SS	2,821,584	CW-HP
N7DX	853,335	CW-HP		K5CM (W5CW, op)	788,865	CW-HP		K9NW	496,908	CW-HP		N4UU	1,107,795	CW-HP		K3WW	2,277,330	CW-HP
K7QA	391,718	CW-HP		K5QR	266,008	CW-HP		KE4KY	342,630	CW-HP		W4NZ	749,612	CW-HP		NY3A	2,057,370	CW-HP
W6SX	262,449	CW-HP		K7UT	265,966	CW-HP		W9PA	236,412	CW-HP		K2SX	431,376	CW-HP		K3JO (AE2W, op)	1,664,230	CW-HP
K7TQ	239,800	CW-LP		N5JR	221,650	CW-LP		VE3MGY	676,172	CW-LP		K3IE	628,728	CW-LP		K1XM	876,360	CW-LP
W6TK	165,249	CW-LP		KØVBU	189,357	CW-LP		KG9X	569,350	CW-LP		N2YO	402,417	CW-LP		W3KB	537,522	CW-LP
K6WSC	112,144	CW-LP		K8LS	117,481	CW-LP		VE3YT	296,296	CW-LP		N4XL	373,320	CW-LP		VE1ANU	276,374	CW-LP
WAØWWW	64,200	CW-LP		N5NAA	60,120	CW-LP		AB9YC	223,836	CW-LP		WA1FCN	349,408	CW-LP		KA1YQC	204,546	CW-LP
K7JQ	19,610	CW-LP		NØEO (AAØAW, op)	57,086	CW-LP		VE3MV	221,652	CW-LP		K2MK	144,095	CW-LP		WO1N	181,577	CW-LP
W7JET	3,614	CW-QRP		KJ5T	11,359	CW-QRP		KU4A	4,495	CW-QRP		WB4OMM	4,356	CW-QRP		KW2A	364	CW-QRP
																KC1DVT	168	CW-QRP
Multioperator Single Transmitter																		
W7RM	1,752,336	MSHP		K5TR	2,408,970	MSHP		K8AZ	1,232,036	MSHP		K1MM	1,824,999	MSHP		N5DX	3,443,553	MSHP
NX6T	599,950	MSHP		WØECC	644,680	MSHP		N4QS	220,604	MSHP		WW4XX	788,172	MSHP		W3UA	2,201,670	MSHP
VE7KW	505,809	MSHP		NØAX	621,920	MSHP		KA9VVQ	51,392	MSHP		N5LCC	659,018	MSHP		W2Z	886,665	MSHP
KT7E	485,072	MSHP		KØG	176,267	MSHP						AD4ES	539,645	MSHP		K3AJ	526,889	MSHP
K7BTW	290,280	MSHP		W7SU	132	MSHP						K4RM	419,216	MSHP		K3CCR	394,476	MSHP