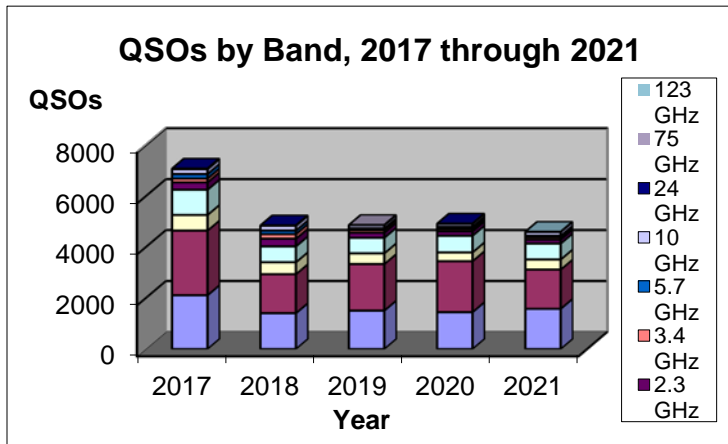




ARRL 222 MHz and Up Distance Contest 2021 Full Results

By Paul Bourque, N1SFE (n1sfe@arrl.org)

In 2021, there was a slight decrease in log submissions this year as compared to 2020. Single-Operator remained the most popular category with 105 entries. Thirty Rover, four Multioperator, and 2 Checklogs brought 2021's total log count to 141.



The Battle of the Bands

432 MHz continued to be the most popular band this year with 126 submitted logs reporting 1,541 QSOs on this band- a decrease of 450 logs from 2020. 114 logs contained 1,582 QSOs on 222 MHz, though there less logs containing 222 MHz QSOs, there were more reported contacts on the band than on 432 MHz. 222 MHz repeated as the point leader, again seeing twice as many points of 432 due to the 2x point multiplier. Total QSO counts on the higher bands (902 MHz through 24 GHz) in 2021 saw an increase of 47 from last year's numbers, largely attributed to a higher number of QSOs made on 902 MHz, 10 GHz and 24 GHz. See table 1 for the activity level for all the bands.

Table 1 – Activity by Band

Band	Logs	QSOs	Distance	Points
222	114	1,582	369,128	738,256
432	126	1,541	317,323	317,323
902	63	395	72,235	288,940
1.2G	82	626	101,957	203,914
2.3G	34	156	27,011	162,066
3.4G	26	94	16,053	160,530
5.7G	17	57	5,405	54,050
10G	29	148	27,510	165,060
24G	5	9	42	840
75G	0	0	0	0
123G	1	1	1	20

Best DX of 2021

2021 saw new Best DX during the 222 and Up event on 902 MHz and 10 GHz. On 902 MHz, Dave, K1RZ, reported a 769 km QSO from FM19jh with Eric, KV1J, in FN44rc in Maine, besting the 743 km QSO from 2018 between him and Mike, N1JEZ.

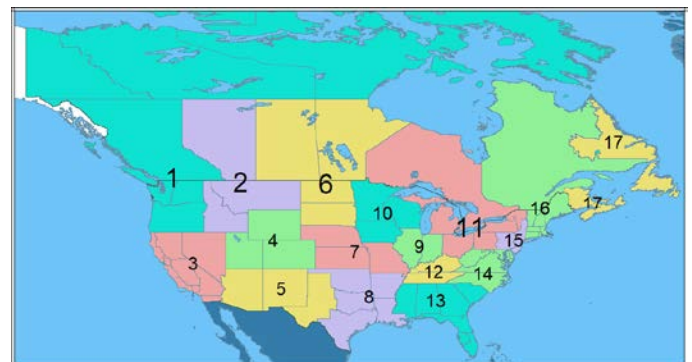
On 10 GHz, Paul, W1GHZ, in Vermont (FN34uj) worked Peter, VA3ELE, (FN03dm) located just outside of Toronto via a 604 km path, topping 2019's 506 km QSO between Dale, AF1T, and Ray, N3RG.

With five years of history for this contest, the following table shows the longest paths reported in the submitted logs for each of the bands with the year, the scored length of the path and the stations that were at each end of the path.

2017 through 2020 – Best DX by Band
(Italics = no log received for that call, new records in bold)

Band	Year	km	Between	
222 MHz	2020	1,946	K7ULS (DN41di)	K5QE (EM31cj)
432 MHz	2020	1,125	K1RZ (FM19jh)	N4SVC (EM80mi)
902 MHz	2021	769	K1RZ (FM19jh)	KV1J (FN44rc)
1.2 GHz	2019/20	707	K1TEO (FN31jh)	K2CKA (FM06qn)
2.3 GHz	2018	660	VE3ZV (EN92vw)	WZ1V (FN31rh)
3.4 GHz	2017	519	K1RZ (FM19jh)	K8TQK (EM89je)
5.7 GHz	2019	506	AF1T (FN43cd)	N3RG (FM29ki)
10 GHz	2021	604	W1GHZ (FN34uj)	VA3ELE (FN03dm)
24 GHz	2020	69	K6MI/R (DM07aa)	W6TV (DM06ir)
75 GHz	2019	1	WB8TGY/R (EN74cx)	WW8M (EN74cx)
123 GHz	2021	1	W2RMA/R (FM08us)	N9ZL (FM08us)

Map of the Regions



The 222 MHz and Up Contest is organized into 18 Regions, recognizing the geographic disparities of a continent-wide VHF+ contest. Each Region has its own leader tables and is covered separately in the writeup. (Map courtesy of K9JK, based on EI8IC's mapability.com North American Overlay Map)

Logs Submitted by Region				
Region	Total Logs	Single Op	Multi Op	Rover
1	13	13	0	0
2	0	0	0	0
3	21	11	0	10
4	0	0	0	0
5	4	2	1	1
6	1	1	0	0
7	2	1	0	1
8	3	3	0	0
9	8	6	0	2
10	13	9	0	4
11	20	17	0	3
12	5	4	0	1
13	9	7	0	2
14	8	6	1	1
15	13	10	2	1
16	19	15	0	4
17	0	0	0	0
18	0	0	0	0

A table of the Top Three scores in each region for all three categories follows the text of the writeup and the full Line Scores data is available online at contests.arrl.org

Region 11

A total of 20 logs were submitted from Region 11, encompassing QSOs on 8 bands. Best DX in the region was a 744 km QSO between Steve, VE3ZV, in Ontario and Dave, K1WHS, in Southwestern Maine on 222 MHz.

Other notable Best DX in the region was a 691 km QSO between Nick, KE8AKW and Bob, K2DRH on 432 MHz and a 584 km QSO between Dana, VE3DS, and Jeff, K1TEO, in southern Connecticut on 902 MHz.

Region 11 – Best DX by Band (<i>Italics = no log received for that call</i>)			
Band	km	Between	
222 MHz	755	VE3ZV (EN92vw)	K1WHS (FN43mj)
432 MHz	691	KE8AKW (EN80xv)	K2DRH (EN41vr)
902 MHz	584	VE3DS (FN03fq)	K1TEO (FN31jh)
1.2 GHz	524	VE3DS (FN03fq)	K1RZ (FM19jh)
2.3 GHz	493	K2YAZ (EN74av)	K2DRH (EN41vr)
3.4 GHz	493	K2YAZ (EN74av)	K2DRH (EN41vr)
5.7 GHz	219	NN3Q/R (FN01tb)	K1RZ (FM19jh)
10 GHz	437	N2WK (FN03xe)	K1RZ (FM19jh)



Pete, KØBAK, operated using a 2m-23cm log periodic antenna and a new Q5 5-band transverter from his repurposed ENG news van. [Peter Kobak, KØBAK, photo]

Region 15

Participants in Region 15 submitted 13 logs in total. Len, N3NGE, operating as a multiop with Bill, K3EGE, took first place in the region, making 100 QSOs.

Best DX in Region 15 was an 801 km QSO on 222 MHz between N3NGE in FN20bd and Paul, N1BUG, in FN55mf. Len also reported a 672 km QSO with Paul, AA4ZZ, in North Carolina on 432 Mhz .

Region 15 – Best DX by Band (<i>Italics = no log received for that call</i>)			
Band	km	Between	
222 MHz	801	N3NGE (FN20bd)	N1BUG (FN55mf)
432 MHz	672	N3NGE (FN20bd)	AA4ZZ (EM96df)
902 MHz	498	N3NGE (FN20bd)	VE3DS (FN03fq)
1.2 GHz	438	NY2NY (FN30rw)	K1RZ (FM19jh)
2.3 GHz	261	N3NGE (FN20bd)	K1TEO (FN31jh)
3.4 GHz	245	K3TUF (FN10we)	W2RMA/R (FM08us)
5.7 GHz	245	K3TUF (FN10we)	W2RMA/R (FM08us)
10 GHz	245	K3TUF (FN10we)	W2RMA/R (FM08us)

Region 1

Region 1 saw participation from 13 stations, down from 15 in last year's event. Mike, N7KSI, took the lead in the region with a 762 point lead over Tom, KE7SW. Though Tom made more QSOs with three more bands activated, Mike managed to score higher distance points on 222 MHz and 1.2 GHz to give him the lead.

Notable Best DX in Region 1 was a 220 km 432 MHz QSO between Mike in CN86mn and, Paul, WA9BTV, in CN99ul.

Region 1 – Best DX by Band (*Italics = no log received for that call*)

Band	km	Between	
222 MHz	432	K7ND (CN87qf)	W7MEM (DN17mr)
432 MHz	220	N7KSI (CN86mn)	WA9BTV (CN88ul)
902 MHz	67	KE7SW (CN87td)	W7GLF (CN87vr)
1.2 GHz	143	N7KSI (CN86mn)	W7GLF (CN87vr)
2.3 GHz	73	K7ATN (CN85so)	K7CVU (CN85hn)
3.4 GHz	22	K7ND (CN87qf)	KE7SW (CN87td)

Region 10

Region 10 had a total of 13 logs submitted, 4 of which were Rovers. Best reported DX in the region was a 222 MHz QSO between Mike, WØVTT, and Ron, W8RU, in Region 11. Bill, KØAWU, led the Single Operator category with 48 QSOs on 5 bands. Pete, K9PW/R topped the region in the Rover category, with a commanding lead over second-place Melvyn, KCØP/R, mainly due to his impressive 127 QSOs on 7 bands.

Region 10 – Best DX by Band (*Italics = no log received for that call*)

Band	km	Between	
222 MHz	708	WØVTT (EN33xx)	W8RU (EN82fn)
432 MHz	640	KØAWU (EN37ed)	NØURW (EN41go)
902 MHz	430	WØUC (EN44hr)	K2YAZ (EN74av)
1.2 GHz	430	WØUC (EN44hr)	K2YAZ (EN74av)
2.3 GHz	384	K9PW/R (EN55bc)	W9XA (EN51uu)
3.4 GHz	394	K9PW/R (EN54ax)	K9JK/R (EN51xr)
10 GHz	556	NØUK (EN34iw)	K9JK/R (EN51xr)

Region 16

With 19 logs submitted in Region 16, Jeff, K1TEO, and held onto his lead in the Single Operator category, while Rick, K1DS/R, led the Rover category with 74 QSOs on three bands. Dave, K1WHS, topped the best DX in the

region with 2 1,672 km QSO on 222 MHz with Jay, KA9CFD, in Illinois, while Jeff claimed the Best DX on 432 MHz, 2.3 GHz and 3.4 GHz. Dale, AF1T, placed second in the region, while Dave, who only operated on 222 MHz for the event, came in a close third.

Region 16 – Best DX by Band (*Italics = no log received for that call*)

Band	km	Between	
222 MHz	1672	K1WHS (FN43mj)	KA9CFD (EN40om)
432 MHz	930	K1TEO (FN31jh)	AA4ZZ (EM96df)
902 MHz	769	KV1J (FN44rc)	K1RZ (FM19jh)
1.2 GHz	659	W1FKF (FN43gi)	K1RZ (FM19jh)
2.3 GHz	466	K1TEO (FN31jh)	NN3Q/R (FN00rg)
3.4 GHz	407	K1TEO (FN31jh)	K1RZ (FM19jh)
5.7 GHz	157	AF1T (FN43cd)	K1GX (FN31tt)
10 GHz	604	W1GHZ (FN34uj)	VA3ELE (FN03dm)



Rick, K1DS/R, operated using low power and homebrew antennas, pictured here at his operating location at Camelback in the Pocono region of Pennsylvania. [Rick Rosen, K1DS, photo]

Region 13

9 entries were submitted in Region 13, consisting of 7 in the Single Operator category and 2 Rovers. Steve,

N2CEI, operating at N4SVC, took the top spot of the Single Operator entrants, with a commanding lead over second place Chuck, KØVXM. In the Rover category, NV4B/R took the home the top spot, scoring over 24,000 points by making 59 QSOs on three bands. Best DX in the region went to N4SVC with QSOs on all four of the lowest bands.

Region 13 – Best DX by Band (Italics = no log received for that call)

Band	km	Between	
222 MHz	1421	N4SVC (EM80mi)	K2DRH (EN41vr)
432 MHz	759	N4SVC (EM80mi)	<i>K4RCA (FM06bq)</i>
902 MHz	544	N4SVC (EM80mi)	N4IS (EL96ub)
1.2 GHz	544	N4SVC (EM80mi)	N4IS (EL96ub)
2.3 GHz	127	KØVXM (EL98pj)	<i>WB4OMG (EL98ad)</i>
5.7 GHz	127	KØVXM (EL98pj)	<i>WB4OMG (EL98ad)</i>



Chris, NV4B/R, operated from Colbert Mountain near Tuscumbia, Alabama, in grid EM64dq on 222, 432, and 1296 MHz. [Christopher Arthur, NV4B, photo]

Region 3

Activity was high again this year in Region 3, with a total of 21 logs submitted this year – 4 less than in 2020. John, K6MI/R, and Patrick, W6YEP, operating as W6TV, took the lead in the Rover and Single Operator categories respectively. The Best DX in the region was attained by Dan, KE7UQL, and John, K7RO, with a pair of QSOs on 222 and 432 MHz. K6MI/R and W6YEP

again achieved the regions’ Best DX with QSOs on 4 bands above 2.3 GHz. John also had the Best DX on 24 GHz this year.

Region 3 – Best DX by Band (Italics = no log received for that call)

Band	km	Between	
222 MHz	247	KE7UQL (DM09df)	<i>KR7O (DM07ba)</i>
432 MHz	247	KE7UQL (DM09df)	<i>KR7O (DM07ba)</i>
902 MHz	216	KC6ZWT (CM98no)	<i>W7AIT (CM87lq)</i>
1.2 GHz	241	KE7UQL (DM09df)	<i>K6MYC (DM07db)</i>
2.3 GHz	112	K6MI/R (CM95xw)	W6TV (DM06ir)
3.4 GHz	112	K6MI/R (CM95xw)	W6TV (DM06ir)
5.7 GHz	112	K6MI/R (CM95xw)	W6TV (DM06ir)
10 GHz*	112	K6MI/R (CM95xw)	W6TV (DM06ir)
10 GHz*	112	W6TV (DM06ir)	KN6PRZ/R (CM95xw)
24 GHz	1	K6MI/R (CM95xw)	KN6PRZ/R (CM95xw)

Region 9

Region 9 saw log submissions from 8 stations, Best DX in the region was once again obtained by Bob, K2DRH, who worked N4SVC in Florida on 222 MHz over a 1,421 km path. Bob attained the Best DX in all but one of the bands active in the region, with John, K9JK/R, achieving Best DX on 10 GHz with a 556 km QSO with Chris, NØUK in EN34iw.

Region 9 – Best DX by Band (Italics = no log received for that call)

Band	km	Between	
222 MHz	1421	K2DRH (EN41vr)	N4SVC (EM80mi)
432 MHz	691	K2DRH (EN41vr)	KE8AKW (EN80xv)
902 MHz	574	K2DRH (EN41vr)	WQØP (EM19wf)
1.2 GHz	574	K2DRH (EN41vr)	WQØP (EM19wf)
2.3 GHz	493	K2DRH (EN41vr)	K2YAZ (EN74av)
3.4 GHz	493	K2DRH (EN41vr)	K2YAZ (EN74av)
10 GHz	556	K9JK/R (EN51xr)	NØUK (EN34iw)

Region 8

Only 3 logs were received this year from Region 8. Pat, W5VY, took first place in the region with 16 QSOs, with Joel, W5ZN, again taking second place in the region. Pat logged a 504 km QSO with Steve, AG4V/R, in Tennessee for the Best DX in the region.

Region 8 – Best DX by Band (Italics = no log received for that call)

Band	km	Between	
222 MHz	504	W5VY (EM34kl)	AG4V/R (EM66ac)
432 MHz	326	W5ZN (EM45dh)	NV4B/R (EM54vs)

Region 14

Dave, K1RZ held on to his reign as the top scorer in Region 14, and had the best DX on 902 MHz, 1.2 GHz, 2.3 GHz, 3.4 GHz, and 10 GHz. Best DX in the region was a pair of 930 km QSOs between Paul, AA4ZZ, and Jeff, K1TEO. 8 logs were submitted in the region.

Region 14 – Best DX by Band (Italics = no log received for that call)

Band	km	Between	
222 MHz	930	AA4ZZ (EM96df)	K1TEO (FN31jh)
432 MHz	930	AA4ZZ (EM96df)	K1TEO (FN31jh)
902 MHz	769	K1RZ (FM19jh)	KV1J (FN44rc)
1.2 GHz	659	K1RZ (FM19jh)	W1FKF (FN43gi)
2.3 GHz	476	K1RZ (FM19jh)	VE3ZV (EN92vw)
3.4 GHz	407	K1RZ (FM19jh)	K1TEO (FN31jh)
5.7 GHz	245	W2RMA/R (FM08us)	K3TUF (FN10we)
10 GHz	513	K1RZ (FM19jh)	<i>VA3ELE (FN03dm)</i>
24 GHz	34	W2RMA/R (FM08us)	<i>N9ZL/R (FM09vb)</i>
123 GHz	1	W2RMA/R (FM08us)	<i>N9ZL/R (FM08us)</i>

Region 6

Ray, WBØHHM, was the lone log submitter in Region 6 this year, reporting a total of 12 QSOs on 222 and 432 MHz. Ray's Best DX is a pair of 278 km QSOs between Ray and Matt, KAØPQW.

Region 6 – Best DX by Band (Italics = no log received for that call)

Band	km	Between	
222 MHz	278	WBØHHM (EN13pn)	KAØPQW (EN33iu)
432 MHz	278	WBØHHM (EN13pn)	KAØPQW (EN33iu)

Region 5

4 logs were submitted in Region 5, two in the Single Operator category, and one each in the Rover and Multioperator categories. Brian, W7JET, took first place in the Single Operator category, making 16 QSOs on the lowest four bands in the contest. Brian also took the best DX on all four bands active in the region. In the multioperator category, Joseph, KC5MVZ and Jennifer, KE5BZO,

Region 5 – Best DX by Band (Italics = no log received for that call)

Band	km	Between	
222 MHz	121	W7JET (DM34tf)	<i>KD8PC (DM43fj)</i>
432 MHz	132	W7JET (DM34tf)	<i>KG7TKT (DM43ef)</i>
902 MHz	113	W7JET (DM34tf)	<i>W7EVE (DM43ek)</i>

1.2 GHz	206	W7JET (DM34tf)	<i>KC7MSU (DM43tk)</i>
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Region 12

5 logs were submitted in Region 12, consisting of 4 Single Operator logs and 1 Rover. Steve, AG4V/R, the lone Rover in the region, had the best DX in the region with 703 km QSOs with Greg, WQØP, on 222 and 432 MHz. Steve, N4JQQ, took a commanding lead of the Single Operator Category, also reported the Best DX on the bands 902 MHz and above that were active in the region.

Region 12 – Best DX by Band (Italics = no log received for that call)

Band	km	Between	
222 MHz	703	AG4V/R (EM45xe)	<i>WQØP (EM19wf)</i>
432 MHz	703	AG4V/R (EM45xe)	<i>WQØP (EM19wf)</i>
902 MHz	205	N4JQQ (EM55bd)	AG4V/R (EM66ac)
1.2 GHz	205	N4JQQ (EM55bd)	AG4V/R (EM66ac)
2.3 GHz	205	N4JQQ (EM55bd)	AG4V/R (EM66ac)

Region 7

2 logs in total were submitted for Region 7 this year. Greg, WQØP, made 17 QSOs on 4 bands in the Single Operator category, amassing over 12,000 points. Greg scored the overall Best DX in the region with a 703 km QSO on 432 MHz with Steve, AG4V/R in Tennessee. Herbert, AF4JR/R reported a pair of QSOs with Harry, WAØCNS/R, in the Rover category – one of which was a 34 km QSO on 10 GHz.

Region 7 – Best DX by Band (Italics = no log received for that call)

Band	km	Between	
222 MHz	629	WQØP (EM19wf)	<i>WØVTT (EN33xx)</i>
432 MHz	703	WQØP (EM19wf)	AG4V/R (EM45xe)
902 MHz	574	WQØP (EM19wf)	K2DRH (EN41vr)
1.2 GHz	574	WQØP (EM19wf)	K2DRH (EN41vr)
10 GHz	34	AF4JR/R (EM48qs)	<i>WAØCNS/R (EM48rl)</i>
24 GHz	1	AF4JR/R (EM48rt)	<i>WAØCNS/R (EM48rt)</i>

Affiliated Club Competition

This year, 8 clubs met the minimum of three logs to be considered for the club competition and all were in the Medium Club category. This is down from 11 clubs in the 2020 event. My Airy VHF Radio Club again took the top spot, with North East Weak Signal Group and Northern Lights Radio Society holding onto second and third places respectively.

The 2022 ARRL 222 and Up Distance contest will be held August 6-7, 2022. I hope to see you on the 222 MHz and Up bands!

Club Aggregate Scores

Club	Score	Entries
Medium		
Mt Airy VHF Radio Club	556,177	14
North East Weak Signal Group	313,443	10
Northern Lights Radio Society	155,582	10
Society of Midwest Contesters	139,960	4
Rochester VHF Group	120,981	6
The Ontario VHF Association	74,700	3
Pacific Northwest VHF Society	22,142	11
Southern California Contest Club	10,484	3

Log Checking Reports are now available in this event. Check yours out at contests.arrl.org/logcheckreports.php

Team Competition

As noted in previous year's articles, the concept of the team competition is not really catching on. Last year, only 1 team registered, so there really was no competition to speak of. In 2021, there were 2 teams registered, *Going the Distance* from Region 9, and the *Really Weak Signal Group* from Region 16.

Really Weak Signal Group took the helm of the team competition, with their 6 team members amassing a total score of 348,762. The 4 members of *Going the Distance* scored a total of 46,815 points.

Let's see if we can get a spirited team competition going for 2022 – Let your fellow 222 and Up enthusiasts know about the team competition and form a team. Teams are made up of any combination of Single Operator, Fixed; Multioperator, Fixed; and Rover category participants operating within a single Contest Region.

Online Team Registration will be available from 10 days before the contest, until 1 hour after the contest begins at contests.arrl.org/teamreg.php?eid=1.

Top Three Scores in Each Region

Region	Operator Type	Call	Score	QSOs	Bands	
Region 1	Single Operator	N7KSI	4,351	23	CDE	
		KE7SW	3,589	33	CD9EFG	
		K7ND	3,414	28	CD9EFG	
Region 3	Single Operator	W6TV (W6YEP, op)	43,279	91	CD9EFGHI	
		K6WIS	5,940	23	CDE	
		KC6ZWT	5,124	22	CD9	
	Rover	K6MI/R	26,142	102	CD9EFGHIJ	
		KN6PRZ/R	17,668	62	CD9EFGHIJ	
Region 5	Single Operator	W7JET	3,473	16	CD9E	
		W7EVE	1,017	4	CD9E	
		WR5O/R	950	7	CDE	
	Multioperator	KC5MVZ	1,418	19	CD9E	
	Region 6	Single Operator	WBØHHM	1,161	12	CD
Region 7			Single Operator	WQØP	12,053	17
	Rover	AF4JF/R		224	2	IJ
Region 8	Single Operator	W5VY	7,937	16	CD	
		W5ZN	3,416	7	CD	
		WA5LFD	25	1	D	
Region 9	Single Operator	K2DRH	94,196	93	CD9EFG	
		W9SZ	12,610	14	CD9EFGI	
		KR8L	2,742	5	C	
	Rover	K9JK/R	31,409	38	CDGI	
		K9TMS/R	246	12	CD9E	
Region 10	Single Operator	KØAWU	38,022	48	CD9EI	
		WØUC	29,861	86	CD9E	
		WØZQ	27,076	75	CD9EFI	
	Rover	K9PW/R	132,972	127	CD9EFGI	
		KCØP/R	15,769	53	CD9E	
		NØHZO/R	14,373	52	CD9E	
Region 11	Single Operator	K2YAZ	63,762	46	CD9EFGI	
		N2WK	43,811	80	CD9EFGHI	
		N2JMH	39,878	79	CD9EFGHI	
	Rover	NN3Q/R	42,921	56	CD9EFGHI	
		VE3CRU/R	8,198	19	CD9FGH	
Region 12	Single Operator	NG3W/R	1,188	4	D	
		Single Operator	N4JQQ	9,386	23	CD9EF
			K4YRK	3,800	18	DE
	Rover	W4PGM	773	10	D	
		AG4V/R	29,602	66	CD9EF	
Region 13	Single Operator	N4SVC	42,825	59	CD9E	
		KØVXM	11,546	22	CD9EFH	
		N4IS	6,058	8	9E	
	Rover	NV4B/R	24,422	59	CDE	
		W4IU/R	163	1	D	
Region 14	Single Operator	K1RZ	143,089	223	CD9EFGHIJ	
		AA4ZZ	18,951	27	CD	
		WA3DRC	12,580	24	CD	
	Rover	W2RMA/R	33,856	66	CD9EFGHIJM	
		Multioperator	K4QF	2,637	13	CDE
Region 15	Single Operator	K3TUF	44,423	90	CD9EFGHI	
		WA2VNV	22,882	64	CD9E	
		KR1ST	17,498	46	CDE	
	Rover	KØBAK/R	5,566	37	CD9E	
		Multioperator	N3NGE	51,795	100	CD9EFHI
	N2NT		18,646	51	CD	
Region 16	Single Operator	K1TEO	144,416	226	CD9EFGI	
		AF1T	47,529	127	CD9EFGHI	
		K1WHS	45,522	55	C	
	Rover	K1DS/R	25,503	74	CDE	
		N1SV/R	24,912	97	CD9E	
		KJ1K/R	8,141	31	CD9EFGHI	