



recover to pre-flare rates. Most of the contacts that took place during this time-frame occurred on 20 and 40 meters.

### Single-Operator Low Power

Despite these challenges, Tor, N4OGW, found a way to maintain an average rate of 130 QSOs/hour to repeat as the category winner in August. This follows his summer 2022 win. NP4Z finished second, matching Tor's multiplier total. Felipe's effort, his personal best in August, is notable because the Caribbean is generally not the place to be competitive in the summer. Perennial top finishers K5TR (K5PI, operator), WØUA, and K7RL rounded out the Top Five. Operating unassisted remains very popular in this contest, with more than half of all entrants choosing this category.

### Single-Operator QRP

N8AA pushed through the flare to log nearly 500 QSOs for the top score in the QRP category. Incredibly, John used only an inverted V and a multiband vertical, proving that big hardware is not a necessity to put together a competitive score in this contest. In second place was Todd, WDØT, whose activity from South Dakota would often otherwise make the state a rare multiplier.

### Single-Operator Low Power Assisted

In the assisted category, Bud, AA3B, continued to impress with his win, leading both in QSOs and multipliers over

second-place K3WW, who's no slouch himself. In third place was NA1NA, also known as YT6W, who remotely piloted the K1LZ superstation in coastal Maine. Gator, N5RZ, finished fourth and was the most westerly entrant to make the Top 10 in the assisted category. Unlike the unassisted category where none of the Top 10 were in the northeast, several top assisted finishers were taking advantage of the higher density of regional multipliers available on the low bands.

### Single-Operator Assisted QRP

A pair of California stations took the top two spots, with WQ6X leading K6GHA for first and second, respectively. This category does appear to be underrepresented, with the majority of QRP operators choosing to operate unassisted, perhaps to

avoid potential packet pileups that sometimes occur when rarer multipliers show up on the band.

### Multi-Two

The top position came down to an incredibly close battle between the teams at VA2WA and N5ZO. Along with VA2WA were operators VA2OT and VA2KI, while N5ZO was joined by K6AM and W6NV. When the dust had settled, only four QSOs separated the two teams. VA2WA had a slight advantage in multipliers, taking the win. There was also a close battle for third place, with NX6T just edging out the team at WØECC.

### Additional Thoughts

Tree, N6TR, deserves our appreciation for handling the log checking for this and many other contests

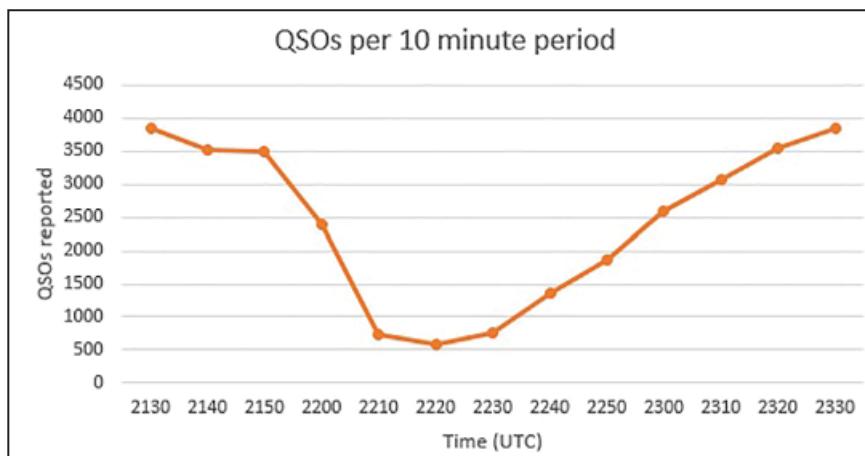


Figure 1 — QSOs per 10 minutes.

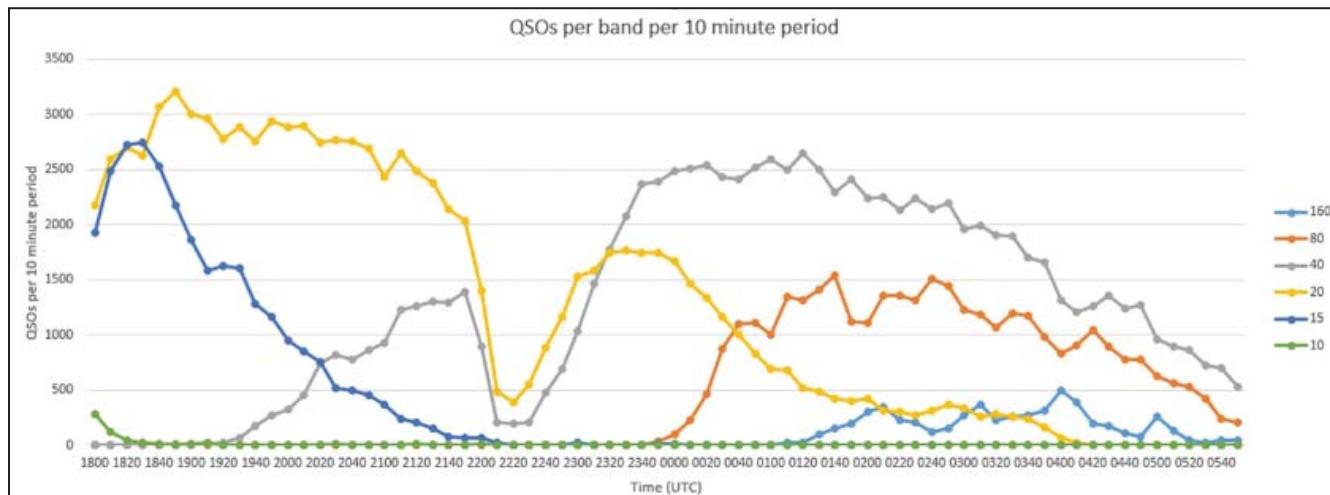


Figure 2 — QSOs per band per 10 minutes.

<b>Team Scores</b>	<b>Team</b>	<b>Operators</b>	<b>Total</b>
<b>1. FRC Team X Class Flare</b>	4. The Zoomers 5. TVA Sequoyah 6. White Memorial #1 7. CCO #1 8. DFWCG Inferno 9. GM Gold Miners 10. NCCC Team #1 11. White Memorial #2 12. TVA WATTS BAR 13. SMC Geomagnetic Storm 14. SCCC #1 15. SECC #1 16. AOCC Assassins 17. MWA Ice 18. Big Sky Contesters Blowin' Smoke 19. Deep Dixie CC Team Kudzu 20. YCCC MA 21. White Memorial #3 22. FRC Team M Class Flare 23. FRC Team Aurora 24. SFCG Strike Hounds 25. KCG A 26. K1USN RADIO CLUB 27. KC Granfalloon 28. SMC Solar Flare 29. FRC Team CME 30. SFCG Fox Hounds 31. NCCC Team #2 32. TDXS 33. SECC #2 34. MRRC/NCC #1 35. YCCC North 36. ACG Team #1 37. FRC Team Solar Wind 38. DFWCG Scorching 39. SCCC #2 40. PVRC Yardhogs 41. ORNL Y-12 42. SMC Coronal Mass Ejection 43. DFWCG Boiling 44. Deep Dixie CC Team Steamboat 45. Flying Iguanas 46. Metro Floaters 47. AOCC Bandits 48. CCO #2 49. DFWCG Baking 50. Metro Flyers 51. TDXS2 52. Brews and Qs 53. KCG B 54. NFR Hot Wings 55. FRC Geomagnetic Storm 56. MWA Pando 57. GM Molybdenum 58. GM Silver Miners 59. NCCC Team #3 60. CW Rox, FT8 Sux! 61. White Memorial #5 62. K3ZGA Memorial #2 63. Santiago de Cuba Contest Team 64. The Braille Team 65. CCO #3 66. Boiled Owls II 67. NCCC Team #4 68. NPARC TelegraFists 69. YCCC South 70. K3ZGA Memorial #3 71. Yes, DC is a multiplier 72. MRRC/NCC #2 73. White Memorial #4 74. K3ZGA Memorial #1 75. FRC Team Solar Particle Event 76. AOCC Renegades 77. Boiled Owls 78. SCSS #3 79. MWA Murphy's 80. NCCC Team #5 81. SMC Solar Wind 82. YCCC North 2 83. LAARK 84. NEMARC Fury 85. Eastern Ohio Contesters 86. I-guana Rock and Roll All Night	N5RZ, NA8V, K7SV, N9TTK, VE3YT AD4EB, N4ZZ, KØEJ, WO4O, K4RO W4WF, NN7CW, N6AR, K4OJ, NP2X VE3EJ, VE3JM, VE3MGY, VE3RZ, VE3NE K5TR, WØUO, WQ5L, N5TJ, K5MR WØUA, KØEU, KTØA, WØZA, WY7M WD6T, N6TV, AE6Y, N6ZFO, N3ZZ N4AO, WA1S, KQ4R, N1TO, N4BP W4NZ, W4RM, K3IE, WF7T, WØAG WT9U, K9NR, N9CO, W19WI, K9WX N6TR, K6NR, AA2IL, AC6T, W6ZL K4BAI, KU8E, W8FN, N4OX W7CXX, N7IR, KC7V, K7WP NØAT, KØAD, NØAV, KØHB, WØAAE N9RV, K7QA, KJ9C, K7BG W5TM, K5RM, ABØTX, WA5POK, N8BJQ W1KM, W1J, KW1X, W1WEF, K5ZD K4NMR, W4NO, NN4NN, W4LT, K4EJ NW3Y, N3AD, AB2E, KC2GOW, K3PP W3MA, N2NT, W3KB, W3PAX N4IQ, N4XL, K2SX, WN4AFP, KG4IGC K4FN, ND4Y, N4QS, N4GO, KM4FO K1VUT, K1EBY, N1DC, K1DJ, K1RV NSØR, A16O, KØAP, K3PA W9RE, N9LQ, NX01, W9QL, WD9CIR K3UL, WA3AAN, K3TS, AA3R, K2RET NU4E, KY4ID, NI7R, K7OM, N2OG K6EI, K6XX, KH6TU, AJ6V, W6FB K5TU, K5GN, K5GQ, K5IZO AA5JF, KY4GS, NJ8J, KB3FW K8MR, K8BL, KW8N, K8RYU, N3SD K1TR, WO1N K4AB, W4NBS, K5VBA WY3A, N2EY, K2CJ, WM3O WØVX, AF5CC, W8OV, N5WNG, WA5LXS N6WT, AA6PW, WQ6X, W8GJK, N6GP N3CW, K4XL, NJ4Q, K4YCR, W1IE W4CMG, AA4DD, WM4Q, K3FH, AF4T WB8BZK, N9XX, AB9YC, W9YK KG5OA, N5XE, WB5N, WB5K, NM5M N8AA, K5KU, KE8G, AA5W NF4A, K9NW, AA4GA N2BJ, WA9LEY, K9CJ K9DR, K7GA, AA7V, K7MY VE3MV, VE3EY, VE3HG, VA3EC, VE3HLS K1DW, W5JK, K5CI W9ILY, N9TK, K9GA KG5U, N5DTT AB8M, KM8V KM4CH, KE4KY, WE5P, K4TZ, K4AVX K2ZR, NN2NN, W2DXE N2RC, K3QP, K17WX KAØPQW, AAØAW, WØZF, KØVG NØTA, NNØG KH6CJJ, WØETT, N7WY, WC7S K9YC, W6SX, K6RIM, K6MM K5NZ, K5BG, K5MXG NK4O, NX4N ND8L, W2TR, WB2ART, ND4G CO8NMN, CO8WN K5XU, KB8TYJ, KW3A VE3KOT, VA6RCN, VA3RKM KO8SCA, KS2G N3RC, NF6R, WU6X K2YG, K2AL, KC2WUF K1IU, K1MT, KC1SA W3US, K1CTR, AD4J, W4GD AC5XK, WN3F W8WTS, AB8OU, NF8M, W8KNO KT3T, K4RFK, KF4YEY K2DM, NØSMX, K4ZDM, KBØZUQ WB2PJH, K3MD W7JET, KE6K, KF7U W2JV, N2GA W6TK ACØW K6GHA, N6TTV, NN7SS, K6DGW K9DUR, K9LA, K9CC, AF9J N1SP A15G, KG5VQZ WA1HEW, N3AML, KE3GK WA8ZNC, KE8E EA6/EA3HSO	875,651 869,723 795,612 734,027 697,311 695,030 630,018 489,710 478,890 474,154 462,365 424,143 408,248 393,851 374,645 371,405 365,122 346,349 339,090 338,294 330,519 325,632 310,900 309,873 305,078 298,342 297,164 261,661 259,999 240,780 225,966 213,688 194,917 193,980 155,148 150,981 147,610 129,282 128,631 120,668 117,988 107,944 106,520 98,493 96,938 95,048 93,087 88,260 83,578 81,503 81,278 79,972 78,752 69,840 69,483 67,339 63,133 60,244 57,850 53,187 52,717 51,290 48,922 39,741 37,348 36,554 36,412 35,961 34,397 34,374 30,766 22,930 18,788 17,944 17,922 16,416 14,308 12,663 9,966 5,896 3,882 2,653 110
<b>2. Deep Dixie CC Team Grits</b>			
N4OGW 273,840 K7RL 230,405 KZ5D 197,492 N5EE 159,372 N4PX 88,893 <b>Total</b> <b>950,002</b>			
<b>3. PVRC SO2R</b>			
K3MM 236,786 N4AF 190,256 WJ9B 185,588 N3QE 168,090 K4ZW 167,024 <b>Total</b> <b>947,744</b>			

throughout the year. The software he has developed has the capability to glean interesting information from the mass of data. It was interesting to actually see the massive dip in QSOs when the radio blackout occurred and to see how propagation gradually recovers following such an event. Going a step further, Figure 2 shows QSOs by band per 10 minutes.

Again, it is easy to determine when the flare occurred. You can also see when and on which bands the majority of QSOs takes place, which may be useful in the future for planning off time. You don't want to start the contest late or you will miss out on the high bands. Additionally, there is a general tapering of activity at the end of the contest. Does it make sense to take off time at the very end of the contest? Or is it better to save operating time for the end, when thunderstorm noise may be reduced later in the evening? The correct answer is "it depends." What's good for a station on the east coast likely is different from one on the west coast. As a Single-Operator entry, the strategy involved in determining when to take the required off-time in this contest is another aspect that makes it an interesting event, and unique from most other contests. It's best to have a general plan in advance for off-time, but be flexible for those unforeseen events, be it a pop-up thunderstorm, an equipment issue, or even a radio blackout.







Call Sign	Score	QSOs	Mults	QTH	NSØR	158,400	990	160	KS	NP2X (K9VV)	132,311	731	181	KP2
W3CB	19,834	211	94	MI	KTØA	136,890	845	162	SD	KP3W	2,849	77	37	KP4
W8PI	16,683	201	83	MI	NWØM	110,505	695	159	MO	6D2A (XE2T)	1,872	72	26	XE
N8KOM	14,308	146	98	MI	Call Sign	Score	QSOs	Mults	QTH	CO8WN	351	27	13	CM
KM8V	9,588	102	94	OH	WAØI	90,153	567	159	MO	*QRP				
KE8RXN	6,363	101	63	MI	AI6O	73,968	536	138	MO					
N4EL	3,744	96	39	OH	NØAV	67,415	485	139	IA					
WA8KAN	2,074	61	34	WV	KØHB	59,058	386	153	MN					
*K8ZT	1,218	42	29	OH	K4IU	56,832	444	128	MN					
K8BZ	1,008	48	21	MI	KØAP	51,775	475	109	KS					
AK2U	210	15	14	WV	KVØI	44,946	454	99	NE					
W8MQT	154	14	11	MI	KØMPH	32,712	348	94	MN					
WT9U	180,649	917	197	IN	K3PA	25,730	310	83	KS	Call Sign	Score	QSOs	Mults	QTH
KG9X	170,400	800	213	IL	NØLY	23,814	294	81	MO	VA2WA	293,690	1369	215	QC
N9TTK	155,936	886	176	IN	WØUY	14,678	179	82	KS	N5ZO	281,934	1362	207	CA
K9NR	105,165	615	171	IL	KØTC	13,680	171	80	MN	NX6T	253,344	1218	208	CA
N9CO	92,708	602	154	IL	WØOS	11,248	148	76	MN	WØECC	238,567	1211	197	MO
W9AV	65,560	596	110	WI	WØAAE	9,202	214	43	MN	N6RO	198,340	1055	188	CA
N9LQ	60,579	381	159	IL	WØ7U	7,952	112	71	MO	N7IP	159,988	878	188	OR
N2BJ	57,812	388	149	IL	WBØRLJ	7,128	132	54	NE	K3AJ	149,760	780	192	MD
W9ILY	56,763	357	159	IL	NNØG	6,336	144	44	CO	K4TCG	147,204	847	174	TN
N7US	53,900	490	110	IL	KØWRY	3,854	94	41	KS	AG4TT	146,160	840	174	NC
N9UNX	52,192	466	112	IN	N5KB	3,264	96	34	IA	KT7E	134,240	839	160	OR
AC9S	43,665	355	123	IL	KEØQKF	1,768	52	34	IA	K4GSO	128,064	696	184	FL
WB8BZK	40,365	299	135	IL	KBØGT	1,288	46	28	MN	W5GAD	123,873	789	157	LA
KØTQ	35,160	293	120	IN	AEØDX	513	27	19	IA	N6AA	95,484	654	146	BC
N9XX	33,212	361	92	WI	KØØAA	459	27	17	KS	N6N	89,543	596	151	CA
WO9B	31,740	276	115	WI	ADØAB	406	29	14	KS	K1IMI	65,601	591	111	CA
AB9YC	31,030	290	107	IL	VE3EJ	217,029	991	219	ON	W4TA	61,214	482	127	ME
N9TK	28,512	288	99	IL	VE3MGY	138,184	751	184	ON	WA3EKL	50,808	438	116	FL
WA9LEY	27,500	275	100	IL	VE3YT	100,062	654	153	ON	W1SRG	35,904	272	132	MD
W9YK	24,024	273	88	IL	VE3RZ	97,750	575	170	ON	W3SK	6,875	125	55	MA
KC9K	21,243	219	97	IL	VE3NE	91,420	653	140	ON		1,276	44	29	PA
W9NXM	20,085	195	103	IL	VE2FK	68,080	592	115	QC					
KYØQ	18,088	238	76	IL	VE3GFN	61,160	440	139	ON					
N5EP	13,200	176	75	IL	VE3MV	58,512	424	138	ON					
N9GUN	7,375	125	59	IL	VE3AQ	49,500	375	132	ON					
AA9RK	5,916	116	51	WI	VE6RST	25,970	245	106	AB					
KC9YL	5,151	101	51	WI	VE3NNT	19,344	248	78	ON					
KC9EE	4,074	97	42	IL	VE3TW	14,008	206	68	ON					
K9EI	3,838	101	38	IN	VE7ZO	13,203	163	81	BC					
KF9UP	3,542	77	46	IN	VA3WB	6,496	116	56	ON					
A19T	3,192	56	57	IL	VE3HZ	4,200	84	50	ON					
KF9VV	1,550	50	31	WI	VE9ML	3,135	57	55	NB					
N8HWV	484	22	22	WI	VA3TNM	1,508	58	26	ON					
N9WK	420	21	20	WI	VA2UR	589	31	19	QC					
KD9LTN	255	17	15	IL	VE3HEU	420	35	12	ON					
KC9EOQ	9	3	3	IL										

### Multi-Two Scores

**Check Logs:** AA8TA, K5TIA, K6RC, KF6NCX, KP2B, KR7X, N1NN, N4LSJ, NA2U, PY3TD, WØPSY, W1RCR, W2CS, W6RGG, W7GB, WB2WPM, WG3J