

Results of the 2021 CQWW DX Marathon

BY JOHN SWEENEY, K9EL

*Great first-time experience. Would like to have worked more countries -W9AP
DX Better than 2020. Few more DXpeditions and better conditions. Had fun -NU8Z
Enjoyed 2021 CQ Marathon. My first entry. Worked several new ones towards end -GW3SFC
First-Time entry — a lot of fun -VK2EY
Fun every year -K9RR
Great motivation tool to keep you hunting for DX! -ON6NL
Thank you CQ Magazine, the annual DX Marathon was a blast! -K4AR*

A year of transition. The beginning of 2021 saw more Covid, low sunspots, and no DXpeditions. But the second half of the year exploded with great band conditions and plenty of DX. Once again, the DX Marathon set new records for participation with the highest number of participants ever and most QSOs in its history. In addition, three times as many all-time records were broken in 2021 compared to 2020. The DX Marathon kept us busy concentrating on DX and was a great way to reduce stress from the pandemic.

Table 1 shows the amazing growth of the DX Marathon in 2021 as the total participants increased to 18,720. That is the highest total in DX Marathon history and a 14% increase over 2020.

We also had a record number of logs submitted and the highest ever number of total QSOs as shown in Tables 2 and 3.

DX signals are weaker during low sunspot periods, but the multitude of digital modes has allowed anyone to work DX. The weak-signal capability of the digital modes has kept activity high as they accounted for 79% of all QSOs in the Marathon — an incredible increase from less than 20% in 2015 and a 21% increase over 2020. The FT4 and FT8 modes accounted for most of those digital contacts. Table 4 shows the change over the last few years.

The maximum possible score in 2021 was 314, an increase of six over 2020, but still very impressive considering the

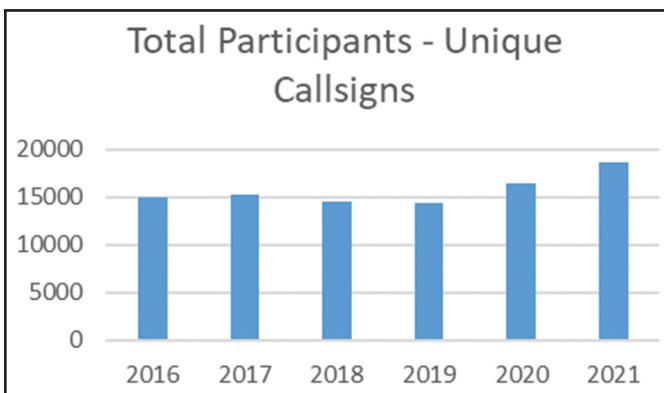


Table 1.

*Email: <john@k9el.com>

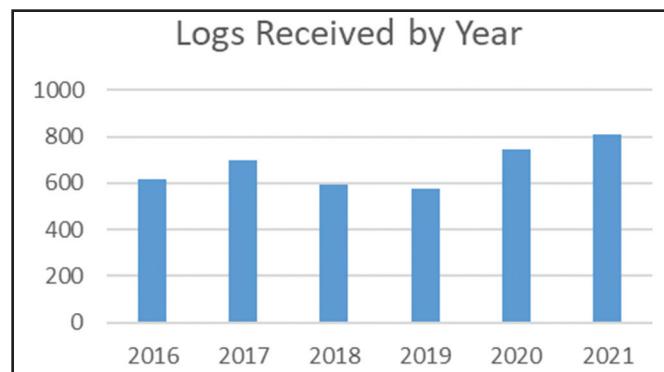


Table 2.

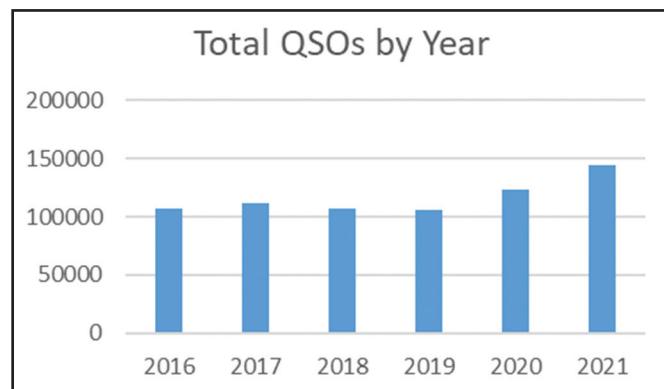


Table 3.

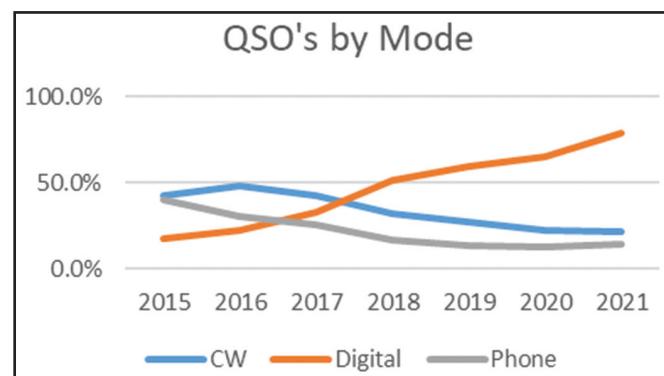


Table 4.

world situation. Only two participants scored over 300, which was better than 2020 when no one exceeded 300 points. We were very happy to see that 28 all-time records were broken — a threefold increase over 2020. Some happy hams now have their calls in the DX Marathon record books. Setting new records in the 2021 environment is a great accomplishment. In terms of band usage, the higher bands saw the biggest increases in QSOs.

And the Winners Are...

Since the Marathon was introduced in 2006, we have had winners from North America (NA), Europe (EU), and South America (SA), but never from Asia (AS). Zorro, JH1AJT, established a new record by being our first ever DX Marathon

winner from Asia. Unfortunately, Zorro passed away from cancer while this article was being written. Zorro was well known for his many philanthropic contributions, but he also found time to be very active in the Marathon. Zorro will be sorely missed. Zorro won Unlimited Class with a huge score of 306 — 5 points more than K2ZJ, last year's Unlimited Class winner and this year's second place winner. Congratulations to John, K2ZJ, for his second-place finish at 301 and to George, DJ3AA, and Pete, NØFW, who tied for third at 299 points.

James, K2JL, last year's Limited Class winner, once again came out on top with a score of 285. Second and third place positions went to SV2AEL and IK2RPE with scores of 284 and 278, respectively. In Formula Class, 100-watt option, Karel,

TOP SCORES

BOLD = Plaque Winners

* = Certificate Winners

Callsign is followed by Score

Unlimited Class

JH1AJT	306
K2ZJ	301
DJ3AA	299
NØFW	299
VE3VEE	297

ZS2EZ

249

PU2MBO

.207

PA3FQA

252

ZD8HZ

176

PY5DD

.193

PAØINA

233

3V8SS

158

PY4CCL

.33

LB6GG

228

SN5J

172

Limited Class

K2JL	285
SV2AEL	284
IK2RPE	278
PY2TC	274
E76C	274

DJ3AA

299

OM3EY

291

OK2FD

291

TA2LG

291

JAØDAI

287

TA4RC

285

JL1IEO

271

VE3VEE

297

PP2UAF

262

PP5RG

240

PU2VLW

229

PU2RTO

226

PY2OM

202

PA3FQA

252

PAØINA

233

LB6GG

228

SN5J

172

15 Meters

17 Meters

20 Meters

30 Meters

40 Meters

60 Meters

80 Meters

160 Meters

CW – North America

Clubs

Zones

North America

Oceania

South America

Africa

Europe

CW – Europe

Formula Class - 100w

OK2FD	291
EA8DHH	265
PY2DPM	261
KM8V	253
OD5YA	251

K2ZJ

301

NØFW

299

VE3VEE

297

PC3T

252

PY5IP

194

LY5M

194

VE3VEE

297

PY4JW

220

PY5DK

212

YI3WHR

146

PY2IG

144

K2TQC

259

LY5O

250

PY2LCD

234

DL7JAN

195

FG4NO

194

PY4AZ

269

W9KNI

256

ON6SAT

198

OD5ZF

194

K9CJ

167

W1NG

196

IZ8MXB

138

PP5JR

233

DL6DH

214

W3LL

176

PU9OJZ

172

N3QE

140

LA3MHA*

174

K7ZV

164

PY5XH

35

Phone

W4HY	252
PY5QW	247
IZ5CML	239
PY6HD	229
PY4JW	220

F4GGJ*

162

W3KX

130

IW2CAM

119

N4QS

111

CT7AQ

96

9A2EU

201

PY2TMV

178

PY2YU

169

PY2XYZ

167

HZ1SK

159

WY4HY

252

WY4HY

</



Zorro, JH1AJT, passed away in March before we could notify him that he won the 2021 DX Marathon Unlimited Class. Zorro was a wonderful human being and a very accomplished DXer and somehow found time to participate in the DX Marathon while doing his charitable work and fighting cancer. Zorro will truly be missed.

OK2FD, was our repeat winner with a score of 291. EA8DHH and PY2DPM finished second and third respectively with scores of 265 and 261. Working the Marathon with wire antennas is a difficult challenge but working DX with QRP power is an even harder challenge. Congratulations to Milan, OK2AP, for a repeat win in the QRP category with a score of 282 points. IZ3VR and WG5G

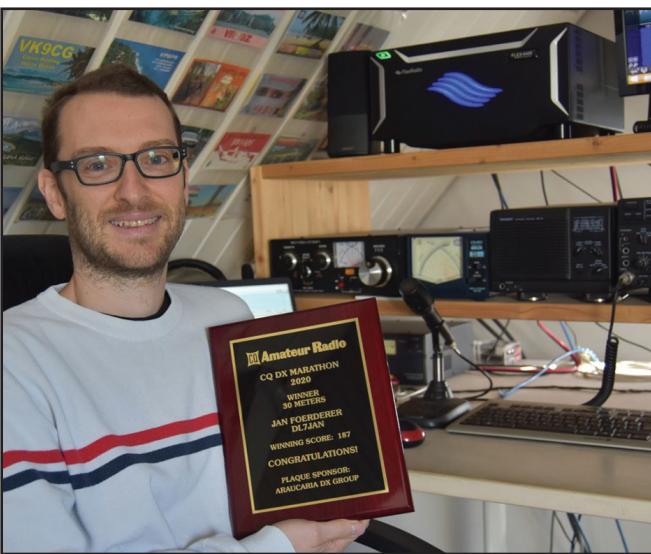
finished second and third with scores of 268 and 266 respectively.

In 2021, 30% of the DX Marathon participants choose to submit scores for a single mode, an 18% increase over 2020. In 2021 we saw nice increases in single-mode submissions for all three modes. Lada, OK2PAY, continues his love of CW and is now a seven-time CW-only plaque winner, topping the world with his score of 266. PA3FQA came in second with a score of 252. We had a tie for the top NA CW score at 230 by both Bob, K5BG, and Jack, W4JS. In the case of a tie, top honors go to the participant with the earliest date of the last QSO submitted. Bob beat Jack by two days. Both Lada and Bob will soon hold a beautiful DX Marathon CW plaque for their efforts. The Digital-Only category continues to show big scores with a tie at 284 points — higher than the CW- and Phone-Only scores. Jan, OM5XX, and Savvas, SV2AEL, share the top spot, but the plaque goes to OM5XX as his last country worked was one week earlier than SV2AEL. N3SL and PY7ZZ tied for third at 283 — just one point behind the winners. A lot of competition for the Digital-Only plaque! Julio, W4HY, who finished in first place last year repeated his top position in the Phone-Only category with a score of 252. PY5QW came in second at 247. Thanks for keeping Phone DX alive.

In addition to the overall and Mode plaques, each year we award plaques to the top score on each continent plus the highest score on each of the 10-through 80-meterbands. Top honors for Africa went to repeat winner CT3MD

with his score of 279; second place winner was EA8DHH with a score of 265 and third place went to ZS2EZ with a score of 249. In Asia, the top score went to JH1AJT as described earlier, with TA2LG finishing second with a score of 291. JAØDAI came in third at 287 points. In Europe, last year's second place winner, DJ3AA, moved to the top European spot with a score of 299. OM3EY and OK2FD tied for second with their scores of 291. In Oceania, Anton, YB5QZ, once again took top honors with a score of 291, very closely followed by a previous Oceania winner, VK3GA, at 286. The top North American score was by K2ZJ at 301, who was the Unlimited Class plaque winner in 2020. Pete, NØFW, came in second at 299. PY7ZZ took home top South America honors with a score of 283, followed closely by HK3W with a score of 282.

About 10% of DX Marathon participants submit single-band scores each year and 2021 was no different. However, the band mix was quite different this year. As would be expected, we saw a big increase in the 6-, 10-, 15- and 17-meter single-band submissions, while there was a decrease in 20-, 40-, and 160-meter-only submissions. Clearly the improved band conditions were welcomed by all. Ten meters was once again won by 9A2EU with a score of 201, a nice increase over 2020. Veteran marathoner PY5EG had the top 12-meter score of 240. The 15-meter winner was PU2UAF at 262 points. Top score on 17 was from PY2TC with a total of 274 points.



Jan, DL7JAN, is an active DX Marathon participant and a very active DXer and DXpedition participant. Jan is shown here with his plaque for Top 30-meter score in 2020.



Anton, YB5QZ, was our Oceania continental winner in 2020 and is shown here with his plaque. Anton is very active and you can find him on many bands at any time of the day. He has a great station and many awards.

COUNTRY WINNERS

Callsign is followed by score
* = Certificate Winners

HA1RB*	282	PY7ZZ	283
HB9DDZ*	157	R6YY	276
HK3W	282	R9AB	202
HZ1SK*	159	S56A*	159
IK2RPE*	278	SQ8N*	277
ISØFWY*	203	SV2AEL*	284
IT9ODQ*	235	SV9COL*	252
JH1AJT	306	TA1CM*	266
K2ZJ	301	TA2LG	291
KH7Q	163	TF3JB	240
KL7TC	230	TO9W*	148
KP4JRS	247	UR7FM*	226
LB6GG*	228	VE3VEE	297
LU5FF*	237	VK3GA	286
LX1EA*	217	VU2IBI	246
LY5O*	250	YB5QZ	291
LZ5VK*	82	YI1WWA*	165
MIØBHX*	207	YL1ZF*	200
OA4DX	129	YO9HP*	258
OD5ZZ*	253	YV4ABR*	252
OE1SGU*	256	ZD8HZ	176
OH2BLD*	266	ZL2IFB	258
OK2FD	291	ZP5DNB*	163
OM3EY	291	ZS2EZ	249
ON6NL*	272		
PA3FQA*	252		
PJ4NX*	168		
PJ7AA*	115		
PYØF*	155		

Note: Top scorers in some countries received plaques.

VE3VEE was once again the king of 20 meters with his top score of 297. Twenty meters was the hot band for 2021, as Marvin's 20-meter-only score put him in fifth place overall worldwide. K2TQC took top 30-meter honors with a score of 259. PY4AZ took the top 40-meter spot with a score of 269. He was followed closely by W9KNI with his score of 256, which was done without using the new digital modes — a very impressive accomplishment. Starting in 2020, we are now awarding a Single Band plaque for the 60-meter band. Once again, the top score was earned by Ken, W1NG, with a very impressive score of 196. The 80-meter plaque was won by PP5JR with a score of 233. Congratulations to all the Single-Band plaque winners. The impressive 160-meter score of 174 will earn LA3MHA a nice certificate for taking top honors on top band. F4GGJ was the king of 6 meters with an incredible score of 162.

In addition to the 2021 plaque winners, we are awarding 98 Certificates of Achievement for various categories. Please consult the detailed listings for

CLUB SCORES

Club	Score	Club	Score
RIO DX Group	15102	A.R.I.	Italy
CDR Group	10891	BHCC	Bosnia and Herzegovina
Western Washington DX Club	9733	Belarus Contest Club	Belarus
Northern Illinois DX Association	8898	CWOp's	Czech Republic
Araucaria DX Group	4964	URE	265
Willamette Valley DX Club	4089	Remote Ham Radio Youth	USA
Mother Lode DX/Contest Club	3627	C.S. Petrolul Ploiești	Romania
Carolina DX Association	3609	SEMBXA	Michigan, USA
East Tennessee DX Association	2097	CWJF	Venezuela
Italian Contest Club	2059	Grand Mesa Contest Club	Arizona, USA
Chilean Pacific Dx Group	1881	WVDXC	USA
UBRO	1431	Southeastern DX Club	USA
CABREUVADAX	1278	SSA	Sweden
Southern California Contest Club	1242	Regionalis Radios Sportklub Puspolkaldany	Hungary
Associacao Dos Radioamadores Do Parana	1218	Rhein Ruhr DX Association	Austria
Yankee Clipper Contest Club	1171	Woodbridge Wireless	USA
Vytautas Magnus University Radio Club	1117	Southern California DX Club	California, USA
Salt City DX Association	1059	FOC	Norway
Potomac Valley Radio Club	979	Club FT8	Uruguay
Florida Contest Group	938	GITRAD	226
VU Contest Group	821	DXSH Ham Society of The Philippines, Inc.	Philippines
CMDX Group	813	MINAS DX Group	Brazil
Hudson Valley Contesters and DXers	791	CARL, Inc.	Philippines
CDXC	781	RRDXA	Germany
Bavarian Contest Club	733	CTRI Contest Group	USA
Central Arizona DX Association	667	Mile High DX Association	Colorado, USA
Society of Midwest Contesters	629	YBDXP1	Indonesia
YBLand DXing Passion Is.	612	North Coast Contest Club	USA
GDXC	610	NEWDXA	Wisconsin, USA
Radio Club Venezolano	600	Sao Paulo Contest Group	Brazil
SP DX Club	590	YO DX Club	Romania
Kansas City DX Club	582	FT8DMC	France
Just for Fun Contest Club	525	Southwest OH DX Association	Ohio, USA
Yokohama DX Club	516	ARNSW	Australia
599 DX Group	497	MCC	Canada
NERG	475	Oklahoma Dx Association	Oklahoma, USA
Black River Radio Ops.	462	Mad River Radio Club	Ohio, USA
Metro DX Club	455	Contest Club Ontario	Canada
LU Contest Group	451	Northern California DX Club	California, USA
Lone Star DX Association	445	University of Tokyo Contest Club	Japan
CDXA	442	WACOM	Pennsylvania, USA
Clipperton DX Club (CDXC)	437	ARAF	Brazil
South Jersey DX Association	437	Nixa Amateur Radio Club	Missouri, USA
Duzce Amateur Radio Association	427	Central DX and Contesting Club	Texas, USA
WNYDXA	399	North Shore Radio Club (IL)	Illinois, USA
Cantareira DX Group	382	NORONHA DX Group	Fernando de Noronha
Mississippi Valley DX and Contest Club	353	Radio Club Valencia	Venezuela
DARC	299	KY Contest Group	Kentucky, USA
OM3KEG	291	Danish DX Group	Denmark
YB Land DX Club	291	Barefoot Contest Club	Indonesia
GPDX	285	Trujillo Alto Contest Club	Puerto Rico
TEAMPAPA	285	Waverley ARS	Australia
Tennessee Contest Group	285	United Station of America	USA
Arizona Outlaws Contest Club	280	G-QRP	England

the calls of the certificate winners. Certificates are awarded for the highest 6-meter and 160-meter scores, top continental score for each of the three modes, top score in each country, top score in each CQ zone, top score in each Canadian call district, top score in each USA call area for each of the four DX Marathon classes, plus the top single-mode score in the USA. Congratulations to all the 2021 certificate winners.

Despite a big drop in the maximum possible score due to the lack of DXpeditions, 28 all-time records were broken in 2021. This included 15 new country records, four new USA call area records, four new continental mode records, new records on the 6- and 60-meter bands plus one record for clubs, zones, and Canadian call areas. Even with reduced DX activity, breaking records is still very possible.

In the popular club competition, the Rio DX Group in Brazil took top honors with an aggregated score of 15,102 pushing the previous club winner CDR Group in Brazil to second place at 10,891. The top North American club score, and third overall, was by the Western Washington DX Club at 9,733. Perennial North American winner, the Northern Illinois DX Association, fell to fourth place with a score of 8,898. Don't forget to include your club's name on your 2022 DX Marathon submission.

Some Operating Advice

Each year, the DX Marathon website publishes a large amount of information to help participants minimize errors in their submissions. The Helpful Hints page can be accessed from the DX Marathon home page <<https://tinyurl.com/khspe7cy>>. In 2021, we published over 1,000 callsign exceptions and notes to help every participant reduce the number of errors in their submissions. We also recommend that you regularly update your logging program's callsign database if it has one. Unusual callsign prefixes seem to multiply every year, so updating your program's database is critical to properly determine the DX location and/or Zone.

In 2021, the number of participants with no errors increased to 26% from 22% in 2019. We are very happy to see the improvement, but that means 74% of our entrants made at least one error. Fortunately, the overall error rate for those who did make mistakes decreased from 1.7% to 1.5% — a significant improvement. The highest error category was once again "Wrong Zone," which accounted for 32% of all errors made. Confusion with U.S. Zones is one of the biggest sources of Zone errors. It is especially important to note that U.S. callsign numbers are no longer required to match their QTH. A W6 could be in New York, or a KL7 could be in Puerto Rico. In addition to the U.S., there are many special callsigns in Russia that do not follow the traditional callsign mapping, thus creating many errors in zones 16, 17, 18, and 19. Zone 2 also continues to be a problem. Very few VE2 stations are in Zone 2 — most are in Zone 5. The DX Marathon website does list the most active Zone 2 stations. The next highest error category was Invalid Callsigns — callsigns that were entered by participants, but do not actually exist. These callsign errors accounted for 27% of all errors. Wrong Country accounted for 23% of all score reductions. Busted Call errors dropped from last year to 14%. There were many unique callsigns used in 2021 so it is critical to review your DX Marathon submission carefully. The number of bad spots on the DX Clusters also remains a big problem.

When logging a QSO from a DX spot, listen carefully to the DX station to ensure the callsign is logged correctly. Busted or Incorrect Callsigns made up 37% of all point subtractions. Some invalid callsigns may have been busted calls that were



Julio, W4HY, is shown here with his 2020 plaque for top worldwide Phone score. Julio has won the Phone plaque previously and is an avid DXer.

TOP SCORES: CONTINENTAL MODE, USA & CANADA CALL AREA

Phone		
VU2DED*	128	W4AA8R*247
IZ5CML*	239	W5K5DC*215
W4HY	252	W6WK6I*112
VK2BY*	199	W7AF7NX*239
PY5QW*	247	W8WT8E*209
		W9K9GA*265
		WØKYØO*102
CW		
TA2SE*	159	
ZL3CW*	206	USA Formula 100W
PY4XX*	182	W1W1NG*196
		W2KL2D*205
		W3AI3KS*103
		W4W4UWC*224
EA8DHH*	265	W5AC7P*176
JL1IEO*	271	W6W7PC*192
OM5XX	284	W7AD7UZ*155
N3SL*	283	W8KM8V*253
YB2HAF*	245	W9KW9U*192
PY7ZZ	283	WØAD1C*210
Digital		
EA8DHH*	265	
JL1IEO*	271	USA Formula 100W
OM5XX	284	W1W1NG*196
N3SL*	283	W2KL2D*205
YB2HAF*	245	W3AI3KS*103
PY7ZZ	283	W4W4UWC*224
		W5AC7P*176
		W6W7PC*192
		W7AD7UZ*155
		W8KM8V*253
		W9KW9U*192
		WØAD1C*210
USA Unlimited		
W1N1EN*	235	USA Formula 5W
W2K2ZJ	301	W3KZ3I*164
W3K3RA*	290	W5WG5G*266
W4K4ZO*	292	W6W8QZA*176
W5K5BG	230	W8K8ZT*206
W6K6RO*	268	
W7W7CD	281	Canada
W8NØFW	299	VE2BR*265
W9W9ILY*	295	VE3VEE297
WØN3SL	283	VA7CRZ*171
		VE9VIC*196
		VO1HP*186
USA Limited		
W1K1NU*	245	
W2K2JL	285	* Certificate Winners
W3WA3WZR*	185	

* Certificate Winners



Dan, KB0EO, is a veteran participant in the DX Marathon and a prior winner. Here he is shown with the 2020 plaque for the Top North America CW score. Dan is also an avid outdoorsman.



Janos, HA1RB, is an avid DX Marathon participant and won one of the toughest categories in 2020 — Digital. With so many QSOs now digital, winning is a great accomplishment.

so bad that we could not determine the real callsign. Once again there were many mix-ups between “0” (Zero) and “O” (Oh). The computer is not forgiving, so check your log carefully. The database that is used for scoring the DX Marathon includes start and end dates for all major expeditions, so please ensure that dates and times are properly logged along with the callsign, country, and zone for each QSO. With more logs being posted online, it is easy to check if you are in the log before entering that QSO in the DX Marathon. We do publish a lot of helpful information on the DX Marathon website <<https://dxmarathon.com>>, but there is nothing we can do to make sure you are in the log. Unfortunately, subtractions due to pirates tripled from 2020.

As part of this article, you will find a complete listing of all scores plus a listing of the Top Scores in all available categories. The DX Marathon website will include additional information and details on the 2021 results plus photos of plaque winners as they become available. For any questions or comments about the DX Marathon, please contact the author.

Special Thanks

The DX Marathon would not be possible without the incredible help and assistance from so many people. The team effort makes the DX Marathon possible. I want to first thank CQ magazine for developing the Marathon and providing continuing support. One of the first hams to jump in was Alex, VE3NEA, who has created the DX Marathon scoring software. He continues to provide updates as required. Without his software, there would not be a DX Marathon. A special thank-you goes to Jim, AD1C, who has created the very popular ADIF to DX Marathon software used by almost 70% of all entrants. I also thank our many plaque sponsors who make our winners incredibly happy each year. Mike, ND9G, wrote our online submission and log checking tool for which we are grateful. Dave, AA6YQ, has created powerful DX Marathon tracking tools in his DX Labs software which we really appreciate. John, W9ILY, creates the DX Marathon certificates — thank you, John. A special thank you goes to W9KNI and PY5EG for their incredible support of the Marathon and their constant encouragement over the years. Bernie, W3UR, has also been a tremendous supporter by including lots of DX Marathon in his Daily DX newsletter. I also thank Laurie, VK3AMA, for including DX Marathon support in his popular JT Alert software. Of course, none of this would be possible without you — our valuable readers and participants in the DX Marathon. Thank you for your participation in 2021 and best of luck in 2022!

Results 2021 CQ DX Marathon

UNLIMITED CLASS				CT1IUA	245	40	285	WD8JJA	234	40	274	N6RV	226	39	265
Callsign	Countries	Zones	Score	K9US	246	39	285	AA9A	233	40	273	W7AV	225	39	264
JH1AJT	266	40	306	TA4RC	245	40	285	K9KE	232	40	272	SP9KR	225	39	264
K2ZJ	261	40	301	OM5XX	244	40	284	ON6NL	232	40	272	PY2COY	224	40	264
DJ3AA	262	37	299	N3SL	243	40	283	W1YY	232	40	272	IK5FKF	224	40	264
NØFW	259	40	299	PY7ZZ	243	40	283	DJ9ZB	232	39	271	W7AOF	224	40	264
VE3VEE	257	40	297	HA1RB	243	39	282	JL1EO	231	40	271	SV2JAO	223	40	263
W9ILY	255	40	295	HK3W	244	38	282	EV1R	230	40	270	K2TQC	219	40	259
N2BJ	255	40	295	W7CD	241	40	281	5P1KZX	233	37	270	K8SIX	218	40	258
K4ZO	252	40	292	NV9L	240	40	280	PY4AZ	230	39	269	Y09HP	219	39	258
K9MM	251	40	291	WO7R	240	40	280	W9MK	230	39	269	NI3P	217	40	257
YB5QZ	251	40	291	CT3MD	239	40	279	K6RO	229	39	268	OE1SGU	217	39	256
OM3EY	251	40	291	SV2HXX	237	40	277	IKØXBX	227	40	267	N7QT	217	39	256
TA2LG	251	40	291	SQ8N	238	39	277	4X4MF	229	38	267	W9KNI	216	40	256
K3RA	250	40	290	KB0EO	238	39	277	WE9V	227	40	267	W9AP	216	40	256
K9NU	248	40	288	K9NB	237	40	277	OK2PAY	226	40	266	WØRIC	219	37	256
K5EK	248	40	288	R6YY	236	40	276	OH2BLD	226	40	266	W4PNY	215	40	255
WB9Z	248	40	288	VK3BDX	237	39	276	VE2BR	225	40	265	W6RS	219	36	255
JAØDAI	248	39	287	W6OAT	235	40	275	N6JV	225	40	265	W6XK	214	40	254
VK3GA	246	40	286	F6GCP	235	40	275	NU8Z	225	40	265	K7MH	216	37	253

OD5ZZ	214	39	253	PY2GZ	179	40	219	W17N	151	38	189	OZ4MU	115	35	150
PA3FQA	212	40	252	PU1JSV	185	34	219	PY7GB	156	33	189	PY2TUA	120	29	149
SV9COL	212	40	252	PU2MVE	182	37	219	W1NK	153	36	189	K7DSE	114	35	149
YV4ABR	217	35	252	KY7M	180	39	219	PY2JG	154	34	188	AJ4HW	122	27	149
PC3T	212	40	252	PY2XL	182	37	219	JF1KML	151	37	188	K7HV	112	37	149
W4HY	213	39	252	VK6DW	181	37	218	PY4LH	156	31	187	TO9W	115	33	148
PY4OY	211	40	251	CE3DOH	183	35	218	AD7Z	149	38	187	K7EKD	119	29	148
NK7I	211	40	251	NK7Z	180	38	218	K7ZA	148	38	186	NI0C	116	31	147
PY2APK	211	40	251	WB2NVR	179	38	217	OD5UI	153	33	186	NA6O	111	35	146
W7WM	210	40	250	LX1EA	179	38	217	VO1HP	151	35	186	PU4GOD	114	31	145
PY2BEK	210	40	250	NC6R	178	38	216	N2SQW	152	34	186	K7VIT	111	34	145
LY5O	211	39	250	K6RI	175	40	215	PY2NF	147	39	186	K7BTW	109	36	145
W9JJB	213	37	250	DU7EYG	176	39	215	PY4BZ	156	29	185	K7FU	113	32	145
PY2YS	209	40	249	W2AXR	176	38	214	KE6GLA	147	37	184	PY2IG	109	35	144
ZM1A	211	38	249	E25KAE	174	40	214	N7TK	147	36	183	CE5NK	114	30	144
E29TGW	209	39	248	IT9RYJ	180	34	214	CT1AKW	147	36	183	PS2T	114	30	144
PY2GM	207	40	247	DL6DH	175	39	214	CT7AKW	147	36	183	PU2YVA	115	28	143
PY5QW	207	40	247	PR7AB	174	39	213	K91R	146	37	183	CB6I	109	33	142
DK2LO	207	40	247	K7RF	175	38	213	N7US	147	36	183	DM9EE	116	26	142
KP4JRS	208	39	247	II9P	173	39	212	KX7DX	144	38	182	W7VAS	105	36	141
LY2MM	208	39	247	PY2WND	175	37	212	PY4XX	144	38	182	PR4T	115	25	140
VU2IBI	206	40	246	PY5DK	172	40	212	BV1EK	142	39	181	K2PO	104	36	140
W1AJT	207	39	246	KS1J	172	40	212	PU2OYT	150	31	181	N3QE	112	28	140
SV1CNS	210	36	246	KD4RH	172	39	211	TA3LHH	148	32	180	K6KR	104	36	140
YB2HAF	206	39	245	TA3ST	173	37	210	NU7J	142	38	180	W2RE	112	28	140
W9ZCL	206	39	245	PS8RV	188	22	210	N7JP	143	37	180	KK9H	108	31	139
JA1WWO	206	39	245	K2UF	170	39	209	KM2O	141	37	178	IZ8MXB	113	25	138
ND9G	205	40	245	AB8M	169	40	209	AF4T	144	34	178	W4CWA	108	30	138
W1SRD	206	39	245	WC3W	170	39	209	KB2S/2	149	28	177	PT1K	104	32	136
W0MB	207	37	244	PU2SWR	173	36	209	ZL1BBW	139	38	177	N7RVD	101	35	136
KZ2I	205	39	244	K1 SND	170	39	209	KO4EJD	140	37	177	K7EG	102	33	135
AA5JF	205	39	244	PY2XC	170	38	208	PU2MST	144	33	177	WP4WW	104	31	135
K3WA	204	39	243	W2FV	170	38	208	W3LL	142	34	176	W6RKC	100	34	134
W7YAQ	204	39	243	VU2PTT	171	36	207	E21EIC	139	36	175	KM8L	104	30	134
W7DO	205	38	243	MIOBHX	170	37	207	K4MV	143	32	175	PU1VMA	102	32	134
W7YW	206	36	242	PS8MT	170	37	207	TF3DC	141	34	175	W6RY	103	30	133
K9RR	202	40	242	K2QB	170	37	207	KD7H	135	39	174	K7SS	99	34	133
F5RRS	208	34	242	PY5AMF	169	38	207	CE7KF	141	33	174	PU2PKL	106	27	133
PY2IQ	202	39	241	IK2XYI	169	38	207	KJ7KOJ	135	39	174	K6TQ	101	30	131
CT1ILT	200	40	240	PU2MBO	171	36	207	LA3MHA	135	39	174	KL7RRC	96	34	130
VU2AE	201	39	240	PY7XC	169	37	206	WA9LEY	141	33	174	W3KX	112	18	130
A92GE	201	39	240	ZL3CW	169	37	206	PY3DX	137	36	173	KJ9B	103	27	130
PY5EG	202	38	240	N0VT	168	38	206	TA4Q	137	35	172	CT2IUK	122	6	128
IZ5CML	199	40	239	PY4RP	172	34	206	PU2WYT	135	37	172	VU2DED	98	30	128
PY1VOY	202	37	239	WA9GON	165	40	205	TF3T	140	32	172	PY5KA	101	26	127
K9ARZ	205	34	239	PY1ZV	166	39	205	XQ7UP	136	36	172	PY5AKW	101	26	127
WD9DZV	196	40	236	K6YK	170	35	205	WA0JZK	140	31	171	K7HBN	96	30	126
K0XM	196	40	236	W9SN	164	40	204	WS7L	133	38	171	PR1T	103	22	125
N4PQX	196	40	236	ISØFWY	168	35	203	VA7CRZ	135	36	171	PY1IR	100	24	124
WX0Z	196	40	236	W9PDS	165	38	203	PY2YU	135	34	169	PY1SAD	94	29	123
KB2S	197	39	236	YC7YGR	170	33	203	PY4ARS	139	30	169	PY1RI	97	26	123
PY2AB	200	36	236	E17CC	166	37	203	PJ4NX	140	28	168	WD6T	89	34	123
KP4JFR	196	39	235	R9AB	164	38	202	KN7K	135	33	168	N7WA	88	34	122
N1EN	197	38	235	PY2CT	165	37	202	AG7N	130	38	168	NE7D	89	33	122
K9IO	195	40	235	KZ1W	164	38	202	K9CJ	133	34	167	KB7BTO	92	30	122
IT9ODQ	196	39	235	PY2OM	166	36	202	PY2ZZ	134	32	166	PU2LJH	97	24	121
W7YED	194	40	234	KL7KK	161	40	201	PY5ZHP	131	34	165	ZW5B	89	31	120
K8YC	195	39	234	W9II	163	38	201	K7IU	128	37	165	PU2RND	92	28	120
PY2LCD	195	39	234	9A2EU	165	36	201	W7PEZ	128	37	165	IW2CAM	101	18	119
NJ6G	193	40	233	WE6Z	162	38	200	PP1KV	129	36	165	W6UB	92	27	119
K7PI	194	39	233	VK4CC	162	38	200	K7ZV	128	36	164	PP2DX	90	29	119
PP5JR	193	40	233	NY9H	163	37	200	KH7Q	126	37	163	KB7HDX	86	33	119
PA0INA	194	39	233	K6OK	163	37	200	LY2FN	128	35	163	PY1KO	95	24	119
W3GQ	192	40	232	N7DX	163	37	200	W1RH	128	35	163	PP5JN	91	27	118
OE6VIE	192	39	231	F1ULQ	185	15	200	F4GGJ	134	28	162	K4NWX	94	24	118
WX6V	192	39	231	AJ8B	166	34	200	W7OM	126	36	162	PY2OAL	86	31	117
K0LB	195	36	231	K7RL	161	38	199	PT4A	127	35	162	CE4WT	85	32	117
K5BG	190	40	230	VK2BY	164	35	199	CT7AIX	130	32	162	PY2MZM	91	26	117
W4JS	191	39	230	VK3VT	161	38	199	W9YK	127	35	162	W7RM	85	31	116
KL7TC	193	37	230	W4DTA	162	37	199	KU1CW	125	36	161	PY5ZD	85	31	116
PY2VM	193	37	230	ON6SAT	161	37	198	W3OA	128	32	160	TA4CS	90	26	116
PY6HD	189	40	229	N4TL	162	36	198	PU4CEP	129	31	160	AD6E	87	29	116
WA7CPA	190	39	229	PY2VZ	160	38	198	TA2SE	126	33	159	TC3X	88	27	115
KA6BIM	190	39	229	VE3UTT	157	39	196	S56A	127	32	159	W7UDH	82	33	115
N4MIK	190	39	229	PU2KNM	158	38	196	K9OR	126	33	159	ZW16ZT	93	21	114
N6WT	190	39	229	K9JU	158	38	196	CE4PS	126	33	159	DF5BX	91	23	114
N9LQ	188	40	228	PU1KPS	162	34	196	3V8SS	128	30	158	N9LAH	85	29	114
W4HG	190	38	228	PT2WM	157	39	196	K1GU	123	34	157	PT7KM	84	28	112
W4UW	189	39	228	DL7JAN	159	36	195	W7XHS	122	35	157	N4QS	91	20	111
VK2QV	188	39	227	WC7Q	156	39	195	PY2OX	123	34	157	PW7B	86	25	111
UR7FM	188	38	226	PY2QT	160	35	195	NL8F	122	34	156	NP3YL	84	25	109
VE3ZZ	189	37	226	LY5M	158	36	194	W6DCC	120	36	156	N7PHY	78	31	109
K9CT	188	37	225	K8AJS	157	36	193	PYOF	120	35	155	PR2N	81	27	108
CX2AQ	186	38	224	W2TT	158	35	193	GW4EVX	117	37	154	KH6TU	79	29	108
ON4LG	184	39	223	K9QVB	155	38	193	PY3NA	121	33	154	PU2NJO	80	28	108
W9VA	183	40	223	VA2EBI	158	35	193	K9PG	126	28	154	PR8KW	81	26	10

LIMITED CLASS - 100W OPTION				FORMULA CLASS - 100W OPTION							
Callsign	Countries	Zones	Score	Callsign	Countries	Zones	Score				
K2JL	245	40	285	PU1AJN	121	31	152	CE3BT	182	35	217
SV2AEL	244	40	284	CO5LB	120	31	151	DL2RPN	178	39	217
IK2RPE	238	40	278	WZ8T	119	31	150	CO8MCL	178	38	216
PY2TC	234	40	274	AC3D	118	32	150	ES4AW	173	40	213
E76C	234	40	274	PY2IML	129	20	149	PY4EP	173	39	212
TA1CM	226	40	266	AF9W	114	33	147	WB4RA	176	36	212
K9GA	225	40	265	PY1JR	115	31	146	AD1C	173	37	210
PU2UAF	222	40	262	YI3WHR	118	28	146	DL6GBM	169	40	209
W9RF	222	40	262	IZ2BHQ	114	31	145	KI2D	174	31	205
PY2XU	221	40	261	PY2VCS	115	29	144	OK1BLU	164	39	203
ZL2IFB	218	40	258	DB5DY	112	31	143	Y04AAC	165	37	202
PY2KS	215	40	255	ZV1T	112	30	142	4X1ST	166	36	202
TA2L	216	37	253	WA8ZNC	107	35	142	CO2CW	160	37	197
ZS2EZ	210	39	249	KI1U	111	30	141	VE9VIC	161	35	196
AA8R	208	39	247	YB1UUN	108	33	141	W1NG	164	32	196
K1NU	205	40	245	PY1DX	112	26	138	OD5ZF	156	38	194
PP5RG	200	40	240	W1HMM	109	28	137	PY5IP	159	35	194
K4AR	200	40	240	TA0A	100	37	137	PY5DD	156	37	193
				TA0FA	100	37	137	W7FKI	156	36	192
FORMULA CLASS - 5W OPTION				FORMULA CLASS - 5W OPTION							
Callsign	Countries	Zones	Score	Callsign	Countries	Zones	Score				
OK2FD	251	40	291	OK2AP	242	40	282				
PY4NF	39	12	51	PY2DRM	221	40	261				
TA1HZ	41	9	50	KM8V	213	40	253				
VK2EY	97	32	129	OD5YA	211	40	251				
TA0ACL	96	32	128	CO2QU	208	39	247				
TA1SOR	106	33	139	LY2PAD	207	38	245				
IK2ULV	95	24	119	CX3AL	203	40	243				
CE6KL	106	27	133	PS8CW	200	39	239				
N6TCB	82	32	114	HATLJ	196	40	236				
A13KS	83	20	103	PY2CRM	187	39	226				
PG1R	84	23	107	CX7BBR	186	40	226				
N9TF	80	27	107	SV1AZL	186	39	225				
PY4HUD	74	28	102	W4UWC	186	38	224				
WV7S	66	29	95	W8QZA	139	37	176				
N7JI	60	32	92	4Z4UO	136	29	165				
KE7AUB	62	26	88	KZ3I	135	29	164				
TA2UCT	66	19	85	PY5NAO	53	20	73				
K9EGS	50	21	71	OK2P	242	40	282				
AD8CM	49	18	67	IZ3NVR	230	38	268				
PY4NF	39	12	51	WG5G	226	40	266				
TA1HZ	41	9	50	PU2NAX	26	17	43				
VK2EY	97	32	129	K8ZT	169	37	206				
TA3P	38	7	45	KD7WNV	16	15	31				
TA0ACL	96	32	128	PY2OH	10	10	20				
TA1SOR	106	33	139	PY5IQ	8	6	14				
LATE, SWL and CHECK LOGS				LATE, SWL and CHECK LOGS							
Callsign	Countries	Zones	Score	Callsign	Countries	Zones	Score				
K9EL	258	40	298	K9EL-Digital	237	40	277				
N6WS	224	40	264	IU0LFQ	222	39	261				
HA00001	206	39	245	AF6SA	132	36	168				
PU5IKE	95	33	128								