Results of the 2020 CQ DX Marathon

BY JOHN SWEENEY,* K9EL/VA3CDX

"A good distraction to the troubles of 2020" - VK4CC

he CQ DX Marathon is alive, well, and breaking records! Despite poor band conditions and the lack of DX peditions after February due to the pandemic and many other problems facing us, the DX Marathon had its biggest year ever in 2020. Many of us stayed home and really appreciated the value of communication through amateur radio. Although there were 19 fewer countries available to work, the average country count was only down by 14 from 2019. Overall participation was up significantly, along with the number of total QSOs, despite the average scores being lower due to lack of DX peditions. The DX Marathon kept us busy concentrating on DX and was a great way to reduce stress from the pandemic.

The participation graph (*Table 1*) shows the amazing growth in 2020. Total participants in the DX Marathon increased to over 16,400, the highest total in the last five years and a 14% increase over 2019.

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

DX signals are weaker during low sunspot periods, but the multitude of digital modes with excellent weak-signal capabilities have allowed anyone to work DX and kept activity high in the DX Marathon. Digital modes accounted for 65% of all QSOs in the Marathon — an incredible increase from less than 20% in 2015. The FT4 and FT8 modes accounted for most of those digital contacts. *Table 4* shows the change over the last few years.

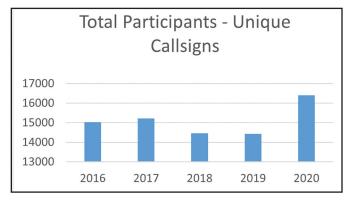


Table 1.



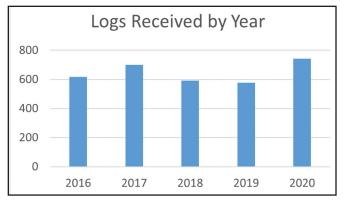


Table 2.

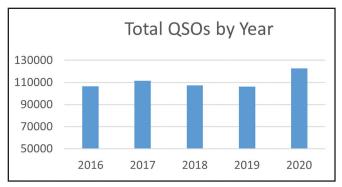


Table 3.

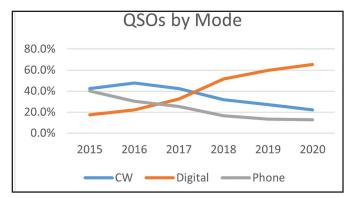


Table 4.

[&]quot;I really enjoyed the challenge" - MØXLT

[&]quot;Lots of fun as usual" - KI1U

[&]quot;Great contest and a lot of fun!" - WD9DZV

[&]quot;First time CQ Marathon" - AF9W, K2YYY, others

[&]quot;Considering 2020 was such a lost year, CQ Marathon is always such fun" – N7RD

[&]quot;A tough year on and off the radio" - ZL2IFB

[&]quot;Working from home had its advantages this year" - N9TF

[&]quot;DXpeditions and sunspots were missing this year, but I still enjoyed it" - IK5FKF

The maximum possible score in 2020 was 308, a big drop of 19 entities from 2019, but still very impressive considering the world situation. Not a single person scored over 300 — another unfortunate result of the pandemic. We were surprised to see that ten all-time records were broken! Some happy hams now have their calls in the DX Marathon record books. Setting new records in 2020 is a great accomplishment. In terms of band usage, the higher bands saw big increases in QSOs.

And the Winners Are

For the last few years, John, K2ZJ, has been among the top scorers and placed 5th in 2019. 2020 was a great year for John as he took top honors in Unlimited Class with a score of 297. Competition was tough but John did not make a single error in his log, which put him above his competition. Building on this unusual year, we had a tie for 2nd place from

Japan with veteran marathoner JA2NDQ and newcomer JH1AJT tied at 294. Nice to see Zorro, JH1AJT, place so well in his first year of competition. Previous winners PY5EG and R6YY placed 4th and 5th, respectively.

James, K2JL, winner of Formula Class the last two years made the jump to Limited Class in 2020 and came out on top with a score of 267. James installed a new HexBeam for his change to Limited Class. Second and third place positions went to IK2RPE and TA4RC, with scores of 259 and 252, respectively. TA4RC repeated his 3rd place performance from last year. In Formula Class (100-watt option), Karel, OK2FD, was our winner with a score of 263. Armed with a wire antenna, 100 watts, and often poor conditions, this was a great accomplishment. Karel finished 2nd last year. IUØLFQ and YV5OIE finished 2nd and 3rd, respectively. Working the Marathon with wire antennas is a difficult challenge, especially with few or no sunspots. Even more chal-

	Т	OP S	CORES		
BOLD = Plaque Winners	Africa		PU5BOY	172	K7ZV156
* = Certificate Winners	CT3MD	260	HZ1SK		TCØX110
Callsign is followed by Score	EA8DHH		PU5FJR		PY5XH31
Callsigit is followed by Score	ZS2EZ		FU3FJH	101	TC3D24
Unlimited Class	ZS6HON				103024
			12 Meters		CM Furance
K2ZJ297	ZS6SKY	119	PY2TC	205	CW – Europe
JA2NDQ294	Asia		PY2TUA		OK2PAY274
JH1AJT294		004	PY5DD		LY5W269
PY5EG293	JA2NDQ		PU5YDD	66	PA3FQA254
R6YY293	JH1AJT				12IFT212
Liitd Ol	JAØDAI		15 Meters		PAØINA211
Limited Class	A92GE		PY2LCD	247	014/ 11/4
K2JL267	OD5YA	256	PU2VLW	239	CW - North America
IK2RPE259			PU2WSQ	228	KBØEO266
TA4RC252	Europe		PU9OJZ	209	K5BG239
EA8DHH241	R6YY	293	PU5YSV	196	W4JS235
TA1CM239	DJ3AA	284			W4QN232
	CT1IUA	282	17 Meters		N7US221
Formula Class - 100w	MØNKR	280	LY5O	241	_
OK2FD263	OM3EY	277	LY5M	187	Zones
IUØLFQ249			PY5IP	182	1194
YV50IE237	North America				3281
HA7LJ232	K2ZJ	297	20 Meters		4NØFW*288
SV1AZL232	NØFW		VE3VEE	287	5297
PP2RON232	VE3VEE		PY4AZ	261	8CM2RSV*200
	WN4N		KC1BB	217	9HK3W*252
Formula Class - 5w	K3RA		YB2HAF	200	11PY5EG293
OK2AP260	NOTIA	200	PY4JW	196	12168
CO2QU198	Oceania				13215
IZ3NVR193	YB5QZ	200	30 Meters		14DJ3AA*284
K8ZT192			DL7JAN	187	15277
W8QZA175	VK3GA		KF6MK	155	16R6YY293
	VK3BDX				17198
CW	ZL2IFB		40 Meters		20SV2AEL*274
OK2PAY274	VK2PW	249	PP5JR	263	21A92GE*266
LY5W269			W9KNI		22VU2AE*236
KBØEO266	South America		K9CJ	182	24BV1EK*202
PA3FQA254	PY5EG		PP1WW		25JA2NDQ294
K5BG239	PY5GA		ON6SAT		274F3BZ*187
	PP5JR				28YB5QZ280
Phone	PY4AZ	261	60 Meters		29VK6DW*161
W4HY240	ZW5B	255	W1NG	183	30VK3GA*279
PY5QW222			W4UM		32ZL2IFB*262
MIØBHX205	6 Meters		OK6DJ	151	33CT3MD269
PY4JW196	I4EAT*	146	AF5CC		38ZS2EZ238
KL7KK194	F6GCP				40TF3JB*204
104	LY2IJ	129	80 Meters		
Digital	IW2CAM	115	N3QE	157	
HA1RB270	LU5FF	50	YC6JRT/0		Note: Top scorers in some zones
OM5XX265			PU5PGK		received Plagues or Country
IK2RPE	10 Meters				Certificates.
5P1KZX255	9A2EU	183	160 Meters		C 0 Satoo.
4X4MF254	PU2UAF		LA3MHA*	187	
	3-0				

lenging is working DX with QRP power, so congratulations to Milan, OK2AP, for a repeat win in the QRP category with an impressive score of 260 points! CO2QU finished in second place with a score of 198.

Each year about 25% of the DX Marathon participants choose to submit scores for a single mode. In 2020 we saw a slight decrease in digital-only submissions, but a 30% increase in phone-only submissions, reversing phone's downward trend of the last few years. Lada, OK2PAY, continues his love of CW and

is now a six-time CW-only plaque winner, topping the world with his CW-only score of 274. Saulius, LY5W, came in second with a very impressive score of 269. The top North American CW score went to Dan, KBØEO, with a score of 266. Both Lada and Dan will soon hold a beautiful DX Marathon CW plaque for their efforts. The digital-only category continues to show big scores with the winner, Janos, HA1RB, finishing just 4 points below the top CW score at 270. DX Marathon veterans OM5XX and IK2RPE finished 2nd and 3rd, respec-

ward trend of the last few years. Lada, OK2PAY, continues his love of CW and IK2RPE finished 2nd and 3rd, respec-

John, K2ZJ, has been placing better each year in the DX Marathon and now claims the number one spot for 2020! John is shown here in his shack where he spent many hours to win Unlimited Class in 2020. John was licensed in 1973 and recently retired, giving him more time to chase DX. He has an extensive antenna system that he put to good use. John enjoys his rural location where the noise levels are low.



Jose, CT3MD, has been an active DX Marathon participant for many years and provides CT3 QSOs for many hams. Jose is a consistent top performer and is shown here with his plaque for the highest score from Africa in 2019.

tively, with scores of 265 and 259. A lot of competition for the digital-only plaque. Phone-only submissions were up this year although average scores were far below the CW and digital scores. Julio, W4HY, who finished second last year, moved to the number-one position with a score of 240, while PY5QW came in second at 222. 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 10through 80-meter bands. Top honors for Africa went to repeat winner CT3MD with his score of 269; second place went to EA8DHH with 241, and 3rd place went to ZS2EZ with 238. In Asia, it was an exciting contest between JA2NDQ and first time DX Marathon participant JH1AJT, with each scoring 294 points. In the case of a tie, the win goes to the participant with the earliest date of their last valid QSO. Congratulations to Hiro, JA2NDQ, for earning the Asia plaque. JAØDAI came in 3rd at 279 points. In Europe, last year's overall Unlimited Class winner, Serge, R6YY, came in first again with an impressive score of 293. DJ3AA finished second at 284. In Oceania, Anton, YB5QZ, once again took top honors with a score of 280, very closely followed by a previous Oceania winner, VK3GA, at 279. The top North American score was by K2ZJ at 297, who was the Unlimited Class plague winner. Pete, NØFW, came in second at 288. Oms, PY5EG, one of the top DX Marathon winners since the beginning of the Marathon, took home top South America honors with a score of 293.

About 10% of DX Marathon participants submit single-band scores each year and 2020 was no different. For 2020, we added the 60-meter band. However, the band mix was guite different this year. For the 2020 singleband competitions, we saw a big increase in 10-, 15-, and 20-meter-band submissions, while there was a decrease in 30- and 80-meter-only submissions. Clearly the new sunspots were welcomed by all. 9A2EU won first place on 10 meters with an amazing score of 183. PY2TC had the top 12meter score of 205. The 15-meter winner was PY2LCD at 247 points. Top score on 17 meters was from LY5O with a total of 241 points. Despite the lack of DXpeditions, the top scores on the 10-, 12-, 15-, and 17-meter bands were all significantly higher than in 2019. VE3VEE still reigns as the king of 20 meters with his top score of 287. Twenty meters remained the hot band for 2020,

COUNTRY WINNERS

Callsign is followed by score	HB9DDZ*	178
* = Certificate Winners	HK3W	252
	HZ1SK*	151
4F3BZ187	IT9BLB*	182
4X4MF254	IZ8MXB*	266
5P1KZX*255	JA2NDQ	294
9A2EU183	K2ZJ	297
A92GE266	KL7KK	194
BI8CKU*197	LA3MHA	
BV1EK202	LU2JCW*	214
CE7KF168	LY5W*	
CM2RSV200	MØNKR*	280
CT1IUA*282	MIØBHX	
CT3MD269	OD5YA*	256
CX3AL215	OE1SGU*	
DJ3AA284	OH2BLD*	249
EA1DR*268	OK2PAY	274
EA8DHH*241	OM3EY	277
EI7CC*191	ON6NL*	260
EV1R*264	PA3FQA*	
F4ESV*254	PJ2/W9VA*	
GUØSUP*206	PJ7AA*	94
GW4EVX*138	PYØFF*	
HA1RB270	PY5EG	

R6YY	293
R9AB	198
SM6A*	190
SQ8N*	270
SV2AEL	
SV9COL*	
TA1CM*	
TA4RC*	
TF3JB	
UR7FM*	
VE3VEE	287
VK3GA	279
VU2AE	236
YB5QZ	280
YO4AAC*	
YV50IE*	
ZL2IFB	
ZP5DNB*	
ZS2EZ	
Z92EZ	238

Note: Top scorers in some countries received plaques.

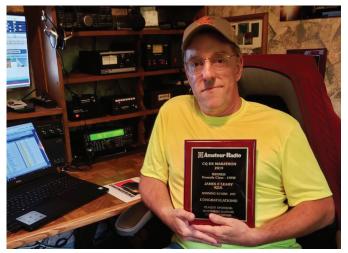
as Marvin's 20-meter only score put him in 7th place overall worldwide. DL7JAN took top 30-meter honors with a score of 187. PP5JR once again took the top 40-meter spot with a score of 263. He was followed closely by W9KNI with his score of 255, which was earned without using digital modes — a very impressive accomplishment. Starting in 2020, we are now awarding a single-band plague for the 60-meter band. This inaugural plaque was won by Ken, W1NG, with a very impressive score of 183. The 80-meter plaque was won by N3QE with a score of 157. Congratulations to all the single-band plaque winners. The impressive 160-meter score of 187 will earn LA3MHA a nice certificate for taking top honors on top band. I4EAT was once again king of 6 meters with his score of 146.

In addition to the 2020 plaque winners, we are awarding 98 Certificates of

CLUB SCORES

Club		Score
CDR Group	Brazil.	10557
Northern Illinois DX Association	Illinois, USA.	7287
Rio Dx Group	Brazil.	7281
Western Washington DX Club		
Araucaria DX Group	Brazil.	5631
Willamette Valley DX Club		
Mother Lode/DX contest Club		
Carolina DX Association	USA.	3563
YB Land DX Club	Indonesia.	2010
East Tennessee DX Association	Tennessee, USA.	1953
Italian Contest Club	Italy.	1827
CabreuvaDX		
Yankee Clipper Contest Club		
Society of Midwest Contesters		
CMDXGROUP	Brazil.	1184
Vytautas Magnus University Radio Club.		
LU Contest Group	Argentina.	998
Arizona Outlaws Contest Club	Arizona, USA.	940
NERG (North East Radio Group)	Australia.	884
UBRO	Brazil.	777
Radio Club Venezolano		
VU Contest Group	India.	771
TRAC	Turkey.	758
Florida Contest Group	Florida, USA.	734
SCCC		
Bavarian Contest Club		
CDXC	Europe.	684
Associacao Dos Radioamadores Do Para		
Potomac Valley Radio Club	USA.	592
Salt City DX Association	USA.	564
Southern California Contest Club		
Team Papa	Turkey.	535
Metro DX Club		
Bahia Dx Group		
CWOPS		
Lone Star DX Association		
Mad River Radio Club		
ARI	Italy.	418
CDXA		
Central Arizona DX Association		
Clipperton DX Club		
GDXC	Cuba.	398
Radios Sportklub Puspokladany		
Lighthouse ARA	USA.	363
Black River Radio Ops		
CADXA	USA.	331
Chilean Pacific DX Group		
GPDX	Portugal.	282
Minnesota Wireless Association		266

Club		Score
Belarus Contest Club		
Baltic Contest Club		
ARNSW		
DUZRAD	Turkey	243
South East Contest Club	USA	242
URE	Canary Islands	24
Hudson Valley Contesters and DXers	USA	229
Mile High DX Association	Colorado, USA	22
FT8DMC	Austria	22
Grand Mesa Contest Club	Arizona, USA	22 [.]
Magalies Radio Amateur Klub	South Africa	21
RSGB		
Icelandic Radio Amateurs	lceland	204
DARC P30	Germany	200
Mulan DX Club		
Southern AZ DX Association	Arizona, USA	197
Minas Dx Group	Brazil	196
Bolingbrook ARS	Illinois, USA	19
Southwest OH DX Association	Ohio, USA	19
North Coast Contest Club	USA	192
NSRC	USA	192
Valley Radio Club of Oregon	Oregon, USA	192
MDXG	Argentina	19 [.]
Nixa Amateur Radio Club		
SK6HD	Sweden	190
Tennessee Contest Group	Tennessee, USA	188
Ham Society of the Philippines, Inc	Philippines	18
Northern California DX Club	California, USA	18
Maritime Contest Club	Canada	184
Croatian Contest Club	Croatia	183
ARIPA DX Team	Sicily	182
Mississippi Valley DX/Contest Club	USÁ	176
WACOM	Pennsylvania, USA	17
Just For Fun Contest Club	Germany	174
Duzce Amateur Radio League	Turkey	173
YO DX Club	Romania	173
SP DX Club	Poland	160
Bradley County DX Association	USA	15
ICC Italian Contest Club		
SSA	Sweden	156
REP	Portugal	146
Kentucky Contest Group	Kentucky, USA	14
CRASMO	Brazil	143
Orari Lokal Jakarta Timur		
Contest Club Ontario		
GITRAD		
KARTS	South Africa	119
URAD Hamradio Club		
São Paulo Contest Group		



Jim, K2JL, won the Formula Class plaque in both 2018 and 2019. For 2020, he erected a new Hex Beam and switched to Limited Class. In his first year in Limited Class, Jim took top honors with his score of 267. Jim is shown here in his shack with his 2019 plaque for winning Formula Class.

Achievement for various categories. Please consult the detailed listings for 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 2020 certificate winners!

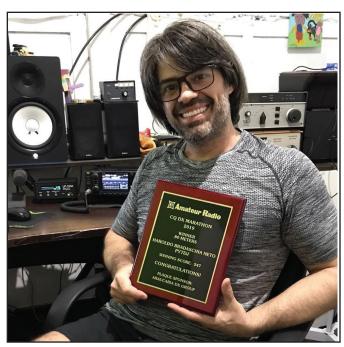
Despite a big drop in the maximum possible score due to the lack of DXpeditions, 10 all-time records were broken in 2020. New records included two new country records, four new USA call area records, two new continental mode records, and new records on the 6- and 60-meter bands. Even with reduced DX activity, breaking records is still very possible.

In the popular club competition, the CDR Group in Brazil once again took top honors with an aggregated score of 10,557. The battle for second place was remarkably close, with the Northern Illinois DX Association moving into second place by beating the Rio DX Group by just 6 points. NIDXA is the sponsor of the top three DX Marathon plaques. Don't forget to include your club's name on your 2021 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. In 2020, 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 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 2020, the number of participants with no errors increased to 25% from 22% in 2019. We were happy to see the improvement, but 75% of our entrants made at least one error. Unfortunately, the overall error rate for those who did make mistakes increased to 1.7% from 1.5% in 2019. The highest



Neto, PY7DJ, was one of many Brazilian stations to win single-band trophies in 2019. Although active on all bands, Neto concentrated on 80 meters in 2019 and is shown here holding his 80-meter top score plaque.

TOP SCORES: CONTINENTAL MODE, USA & CANADA CALL

Phone		W3	WA3WZR*	175
VU2DED*	111	W4	AA4R*	190
MIØBHX*	205	W5	K5DC*	218
W4HY	240	W6	K7QDX*	203
VK2BY*		W7	AF7NX*	192
PY5QW*			WT8E*	
			W9RF*	
CW				
TA4MA*	116	USA	A Formula 100V	V
ZL1BBW*			AD1C*	
PY4XX*	187		W1NG	
		W2	W2VU*	44
Digital			AI3KS*	
ZS2EZ*	238		W4UWC	
4X4MF*	254	W5	NE5W*	219
HA1RB	270		W7PC*	
W4UWC*	225	W7	WV7S*	73
YB2TS*	207		KM8V*	
PY5HOT*	230	W9	KW9U*	211
PY5HOT*	230	W9	KW9U*	211
USA Unlimited	230	US	SA Formula 5W	
		US		
USA Unlimited	266	W1 W3	SA Formula 5W KA1PPV KZ3I*	23
USA Unlimited WØKBØEO	266	W1 W3	SA Formula 5W KA1PPV	23
USA Unlimited WØKBØEOW1KX1X* W2K2ZJW3K3RA*	266 229 297 285	W1 W3 W5 W6	SA Formula 5W KA1PPV KZ3I* KG1GEM* W8QZA*	23 132 61 175
USA Unlimited WØ KBØEO W1 KX1X* W2 K2ZJ W3 K3RA* W4 WN4N*	266 229 297 285	W1 W3 W5 W6	SA Formula 5W KA1PPVKZ3I*KG1GEM*	23 132 61 175
USA Unlimited WØKBØEOW1KX1X* W2K2ZJW3K3RA*	266 229 297 285	W1 W3 W5 W6	SA Formula 5W KA1PPV KZ3I* KG1GEM* W8QZA*	23 132 61 175
USA Unlimited WØ KBØEO W1 KX1X* W2 K2ZJ W3 K3RA* W4 WN4N*	266 229 297 285 286	W1 W3 W5 W6 W8	6A Formula 5W KA1PPV KZ3I* KG1GEM* W8QZA* K8ZT*	23 132 61 175 192
WØ KBØEO W1 KX1X* W2 K2ZJ W3 K3RA* W4 WN4N* W5 W5IF*	266 229 297 285 286 273	W1 W3 W5 W6 W8	GA Formula 5W KA1PPV KZ3I* KG1GEM* W8QZA* K8ZT*	23 132 61 175 192
USA Unlimited WØKBØEO W1 KX1X* W2 K2ZJ W3 K3RA* W4 WN4N* W5 W5IF* W6 N6WT	266 229 297 285 286 273 281	W1 W3 W5 W6 W8	6A Formula 5W KA1PPV KZ3I* KG1GEM* W8QZA* K8ZT*	23 132 61 175 192
WØKBØEOW1KX1X* W2K2ZJW3K3RA*W4W14N*W5W5F*W6M6WTW7W07R*	266 229 297 285 286 273 281 275 288	W1	6A Formula 5WKA1PPVKZ3I*KG1GEM*W8QZA*K8ZT* CanadaVE3VEEVE3VEEVA7CRZ*	23 132 61 175 192 250 287 287
USA Unlimited WØ KBØEO W1 KX1X* W2 K2ZJ W3 K3RA* W4 WN4N* W5 W5IF* W6 N6WT W7 W07R* W8 NØFW	266 229 297 285 286 273 281 275 288	W1	GA Formula 5WKA1PPVKZ3I*KG1GEM*W8QZA*K8ZT*K8ZT*CanadaVE2BR*VE3VEE	23 132 61 175 192 250 287 287
USA Unlimited WØ KBØEO W1 KX1X* W2 K2ZJ W3 K3RA* W4 WN4N* W5 W5IF* W6 N6WT W7 W07R* W8 NØFW	266 229 297 285 286 273 281 275 288	W1	6A Formula 5WKA1PPVKZ3I*KG1GEM*W8QZA*K8ZT* CanadaVE3VEEVE3VEEVA7CRZ*	23 132 61 175 192 250 287 287
USA Unlimited WØ KBØEO W1 KX1X* W2 K2ZJ W3 K3RA* W4 WN4N* W5 W5IF* W6 N6WT W7 WO7R* W8 NØFW W9 N2BJ*	266 229 297 285 286 273 281 275 288 283	W1	6A Formula 5WKA1PPVKZ3I*KG1GEM*W8QZA*K8ZT* CanadaVE3VEEVE3VEEVA7CRZ*	23 132 61 175 192 250 287 287
USA Unlimited WØ KBØEO W1 KX1X* W2 KZZJ W3 K3RA* W4 WN4N* W5 W5IF* W6 N6WT W7 WO7R* W8 NØFW W9 N2BJ* USA Limited	266 229 297 285 286 273 281 275 288 283	W1	6A Formula 5WKA1PPVKZ3I*KG1GEM*W8QZA*K8ZT* CanadaVE3VEEVE3VEEVA7CRZ*	23 132 61 175 192 250 287 287
USA Unlimited WØ KBØEO W1 KX1X* W2 K2ZJ W3 K3RA* W4 WN4N* W5 W5IF* W6 N6WT W7 W07R* W8 NØFW W9 N2BJ* USA Limited WØ KDØWUQ*	266 229 297 285 286 273 281 275 288 283	W1	GA Formula 5W KA1PPV KZ3I* KG1GEM* W8QZA* K8ZT* Canada VE2BR* VE3VEE VA7CRZ* VE9VIC*	23 132 61 175 192 250 287 287



Serge, R6YY, has been scoring in the Top 5 for many years, but 2019 was the first year he took home top honors in the DX Marathon, a feat he repeated in 2020. Serge has been chasing DX since 1968 and is very active on the bands and is shown here with his winning plaque for Unlimited Class in 2019.

error category was once again "wrong zone," which accounted for a third of all errors made. The wrong zone error rate continues to increase each year. Confusion with USA zones is one of the biggest sources of zone errors. It is especially important to note that USA 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 USA, 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 category was "invalid callsigns" callsigns that were entered by participants, but do not actually exist. These accounted for 25% of all errors. Wrong country accounted for 23% of all score reductions. Busted call errors dropped from last year to 16%. There were many unique callsigns used in 2020 so it is critical to review your DX Marathon submission carefully. The number of bad spots on the DX Clusters remains a big problem.

When logging a QSO from a DX spot, listen carefully to the DX station to make sure the callsign is logged correctly. 41% of all point subtractions were due to busted or incorrect call-

signs. Some invalid callsigns may have been busted calls that were so bad that we could not determine the real callsign. Once again, there were many mix-ups between "Ø" (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. NIL (Not In Log) reductions more than doubled in 2020. 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 ensure you are in the log.

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 2020 results plus photos of plaque winners as they become available. For any questions or comments about the DX Marathon, please contact the author at <comments@dxmarathon.com>.

Special Thanks

The DX Marathon would not be possible without incredible 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 thanks goes to Jim, AD1C, who has created the very popular ADIF-to-DX Marathon software used by nearly 70% of all entrants. I also want to 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 that 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 2020 and best of luck in 2021!

	UNLIMITE	D CLASS		YB5QZ MØNKR	240 241	40 39	280 280	IZ8MXB OM5XX	226 227	40 38	266 265	5P1KZX ZW5B	216 218	39 37	255 255
Callsign	Countries	Zones	Score	JAODAI	239	40	279	VK3BDX	225	40	265	W9KNI	216	39	255
K2ZJ	257	40	297	VK3GA	239	40	279	SV2HXX	225	40	265	PA3FQA	215	39	254
JA2NDQ	254	40	294	OM3EY	237	40	277	EV1R	225	39	264	F4ESV	214	40	254
JH1AJT	256	38	294	PY5GA	239	37	276	PP5JR	223	40	263	4X4MF	215	39	254
PY5EG	253	40	293	WE9V	237	39	276	K6RO	222	40	262	SV1CNS	216	37	253
R6YY	253	40	293	WO7R	235	40	275	AA9A	222	40	262	IK5FKF	213	40	253
NØFW	249	39	288	K9NB	235	40	275	ZL2IFB	222	40	262	PC3T	213	40	253
VE3VEE	247	40	287	OK2PAY	234	40	274	LY7Z	222	40	262	W6OAT	212	40	252
WN4N	246	40	286	SV2AEL	234	40	274	PY4AZ	222	39	261	HK3W	212	40	252
K3RA	245	40	285	W5IF	233	40	273	ON6NL	220	40	260	IKØXBX	211	40	251
K5EK	244	40	284	K7BV	234	38	272	NI3P	220	40	260	PY6HD	211	39	250
DJ3AA	244	40	284	HA1RB	230	40	270	K9KE	220	40	260	N6RV	210	40	250
K4ZO	243	40	283	SQ8N	230	40	270	W9MK	219	40	259	VE2BR	211	39	250
N2BJ	243	40	283	LY5W	230	39	269	IZ5CML	220	39	259	NU8Z	210	40	250
CT1IUA	242	40	282	CT3MD	229	40	269	NV9L	219	40	259	PY4OY	212	38	250
N6WT	241	40	281	EA1DR	228	40	268	WØRIC	221	38	259	OH2BLD	211	38	249
K9NU	241	40	281	A92GE	226	40	266	OD5YA	216	40	256	VK2PW	210	39	249
W9ILY	240	40	280	KBØEO	227	39	266	DJ9ZB	216	40	256	W1AJT	208	40	248

PY2LCD	208	39	247	NQ7R	164	39	203	N7BV	131	35	166	PU2VJI	91	26	117
K9RR	207	39	246	SQ9V	162	40	202	WX7HS	128	38	166	NL8F	86	31	117
DL1NKS	208	38	246	BV1EK	163	39	202	PU9OAA	130	36	166	W6RC	93	23	116
W7CD	207	39	246	PY4FD	164	38	202	AD7Z	129	37	166	N7PHY	83	33	116
WY7W	210	35	245	PY2KS	174	28	202	N1MGO	132	34	166	IW2CAM	97	18	115
WB9Z	206	39	245	WC3W	161	40	201	TA2XX	133	33	166	TA3OKK	88	27	115
PY2KNK	208	37	245	PU2SWR	165	36	201	PU2SDW	134	32	166	PU2MBO	90	25	115
W4PNY	205	40	245	W1NK	165	36	201	K7RF	132	33	165	PY7GB	88	26	114
K3WA	204	40	244	K7ACZ	163	37	200	PR4T	137	28	165	PP5AO	84	28	112
W9JJB	204	40	244	VK3VT	160	39	199	N7TK	128	37	165	PU2MST	86	26	
TA2LG	203	40	243	K2UF	164	34	198	W9PDS	130	34	164	TA7LZB	92	19	112 111
PY2COY	203	40	243	K4XU	160	38	198	K7ZS	130	34	164	VU2DED	83	28	111
VK3KTT	202	40	242	R9AB	162	36	198	K1SND	131	33	164	TA7LDU	87	23	110
AA5JF	203	39	242	PY2GZ	161	37	198	PU2LRZ	130	34	164	TCØX	87	23	110
W9ZCL	203	39	242	N7WS	159	38	197	WR7T	127	36	163	W7ZB	76	34	110
N6JV	201	40	241	W3DQS	161	35	196	PY4ARS	133	29	162	ZW2T	85	24	109
LY5O	202	39	241	PY4JW	161	35	196	PY4LH	136	26	162	N9EP	84	25	109
W7YAQ	200	40	240	K2YYY	158	38	196	VK6DW	124	37	161	VU2TMP	85	24	109
W4HY	201	39	240	TA1CQ	161	35	196	OD5UI	127	33	160	PR2N	80	28	108
PY6TS	200	40	240	N6MZ	156	40	196	W6RKC	123	37	160	TAØTA	84	23	107
WD9DZV	200	40	240	KZ1W	156	39	195	W6DE	125	34	159	PY3BEG	81	25	106
K5BG	200	39	239	W9CY	159	36	195	TF3DC	130	29	159	TC3SAV	83	23	106
W6XK	198	40	238	PY2GIG	159	36	195	IK1JJM	126	33	159	K7VAP	76	29	105
NK7I	199	38	237	AJ8B	160	35	195	AJ4HW	131	28	159	K7EMI	74	30	104
W1YY	201	36	237	KL7KK	155	39	194	N3QE	125	32	157	WW7E	74	28	102
K7PI	196	40	236	K1VMT	157	37	194	TA7OYG	126	31	157	KE8LXN	80	22	102
VU2AE	197	39	236	K9IR	156	37	193	TA7TC	122	34	156	PU5FJR	78	23	101
W4JS	197	38	235	PS2T	153	39	192	KV3T	124	32	156	PYØFF	73	25	98
N4PQX	195	40	235	YV4ABR	160	32	192	IUØDZA	122	34	156	K7BVT	70	28	98
N4MIK	197	37	234	LU7HN	156	36	192	K7ZV	123	33	156	TC3A	77	19	96
VU2IBI	194	40	234	K9RE	154	38	192	W4UW	128	28	156	TA4IGN	73	23	96
W4QN	193	39	232	EI7CC	155	36	191	BH3DHE	121	35	156	PU4CEP	70	24	94
VE3UTT	193	39	232	PY5ZHP	154	37	191	AF6SA	122	34	156	N6VH	65	29	94
WX6V	194	38	232	NK7Z	152	39	191	KX7DX	118	37	155	TA2NC	75	19	94
AK6A	193	37	230	TA3ST	153	38	191	WC7Q	117	38	155	PY2MP	71	22	93
N7QT	191	39	230	VU2PTT	152	38	190	TA7AEK	123	32	155	PY2DSA	68	25	93
R2ARR	193	37	230	AL7KC	152	38	190	KF6MK	119	36	155	PP1KV	70	22	92
PY5HOT	194	36	230	PY2WND	156	34	190	N5CR	119	35	154	PY9TW	63	28	91
PY2CP	191	38	229	K9IO	151	39	190	W1RH	121	33	154	PJ2/W9VA	64	25	89
KX1X	192	37	229	WAØJZK	157	33	190	VK4CC	118	35	153	W7NP	60	29	89
K4RUM	194	35	229	VA7CRZ	152	37	189	PY2OAL	123	30	153	LY2AE	65	24	89
PY2DPM	190	39	229	NU7J	150	39	189	PT7ZT	121	31	152	K9UQN	67	22	89
PY1VOY	198	31	229	PY2NF	149	40	189	CT7AKW	122	30	152	TC3B	67	17	84
PU2WSQ	189	39	228	KC7V	151	38	189	N9LAH	119	33	152	TA2TC	64	20	84
K9CT	187	40	227	IU4FNO	150	39	189	K7EG	117	33	150	PY5AKW	66	17	83
W4HG	188	39	227	TA4Q	151	37	188	N4KW	118	32	150	PY2AXH	56	24	80
ND9G	188	39	227	AF4T	152	36	188	K7MH	114	35	149	PY2RKG	61	18	79
PP1CZ CT1ILT	188 187	39 39	227 227 226	NA6O W2TT	151 155	37	188 188	NE7D PU2MXU	115 117	34 30	149 149 147	PU2VAV KB7HDX	57	21 24	78 78 77
W3GQ	185	39	224	PY2TUA	155	33 33	188	PT4A	111	36	147	PY1FOX	53 56	20	76
PY2YS	187	37	224	K6UM	150	37	187	PY2ZZ	116	31	147	TA3LUX	58	16	74
YV4BCD	185	39	224	PY4XX	150	37	187	TA3LHH	120	27	147	PY2NFT	56	18	74
OE1SGU	185	38	223	LA3MHA	149	38	187	W6BRY	114	33	147	W7SLS	46	26	72
K6YK	184	39	223	WB2NVR	152	35	187	PY1ZV	115	32	147	AD7UZ	47	25	72
PY5QW	184	38	222	LY5M	153	34	187	PY2XZ	117	30	147	TC114PTR	55	16	71
PY2BEK	185	37	222	WA7CPA	152	35	187	I4EAT	120	26	146	KU4NY	50	21	71
PY2DMZ	184	38	222	DL7JAN	150	37	187	K7VIT	111	35	146	TA3LKJ	52	19	71
KY7M	183	39	222	K7RL	150	36	186	F6GCP	119	26	145	PU1MIL	50	20	70
W9II	184	38	222	K6OK	148	38	186	NJ6G	107	37	144	PU2OPV	53	16	69
W7WM	182	39	221	F4HJO	149	37	186	W1SRD	110	34	144	N7DX	45	24	69
N7US	184	37	221	SQ3MZM	151	35	186	W7VAS	112	32	144	PU2MEA	49	18	67
K5ZD	181	40	221	PY2VZ	148	37	185	K7BTW	107	36	143	TA8BZ	54	13	67
PS8RV	179	40	219	W6UB	149	34	183	WD6T	109	34	143	YM1KM	51	12	63
PY2XC	182	37	219	9A2EU	146	37	183	PP5DZ	113	30	143	W9KMP	44	16	60
LY2MM	179	39	218	IT9BLB	144	38	182	AB8M	110	33	143	K6SZQ	34	24	58
PY2IQ	179	39	218	PY5DC	145	37	182	KB2S	108	34	142	PY1ROE	44	11	55
KA6BIM	177	40	217	K9JU	149	33	182	PU2YXB	112	29	141	TC3H	42	11	53
K5YE	178	39	217	K9CJ	146	36	182	W9IXX	107	34	141	LU5FF	36	14	50
KC1BB	177	40	217	ZL1BBW	145	37	182	N9OK	108	32	140	ZZ2J	33	16	49
VE3ZZ	180	36	216	PY2LPM	146	36	182	PY2HJ	108	31	139	PU2LFU	34	15	49
W1HS	184	32	216	PR8KW	147	34	181	GW4EVX	107	31	138	PY2SR	33	14	47
WA4JQS	176	39	215	PY2UD	148	33	181	PU2XMY	105	33	138	JO7KMB	30	13	43
SV1HEP	174	40	214	PU2UAF	144	35	179	K7EKD	104	33	137	PY1CG	29	11	40
YC7YGR	179	35	214	YB2BNN	145	33	178	W9ZJ	105	31	136	PU2MBY	27	11	38
PY2OKB	176	38	214	KN7K	144	34	178	K7HV	104	32	136	PY1CDR	23	13	36
LU2JCW	176	38	214	W3OA	142	36	178	KB7BTO	101	33	134	ZY1F	24	11	35
PY2VM	176	37	213	DL6DH	146	32	178	PY5ZD	99	33	132	PR3CDR	23	10	33
KZ2I	173	40	213	VK2BY	143	35	178	K7PAX	97	34	131	PY1SGT	22	11	33
K8YC	175	37	212	KD8NYP	144	33	177	PY2ZEA	106	25	131	PY5XH	19	12	31
I2IFT	173	39	212	AG7N	138	39	177	KX7YT	104	26	130	WB6BET	17	13	30
N9LQ	173	39	212	PY5AMF	147	30	177	LY2IJ	103	26	129	PR1T	13	10	23
GØYCE	174	37	211	W6RS	143	34	177	PY2MIG	101	28	129	PY2KEY	15	8	23
ZS6HON	174	37	211	NIØC	140	36	176	W7VO	98	30	128	PY2TTN	13	8	21
PAØINA	172	39	211	W7RM	142	33	175	CT7ANO	100	28	128	TA4HQ	14	4	18
K1ESE	172	38	210	KD8NYO	142	33	175	K6KR	95	32	127	PT9BM	9	6	15
K8AJS	174	35	209	WA9LEY	145	30	175	W6DCC	96	31	127	PU2RXA	8	7	15
PU2MVE	170	39	209	WI7N	138	37	175	PT2AW	96	30	126	KI6YYT	5	5	10
PY2AB	172	37	209	W2FV	136	38	174	TA5BS	97	28	125	PU5PGK	2	2	4
YB2TS K9ARZ	170 177	37 29	207 206	K1GU K6TQ	140 138	34 35	174 173	K9QJS CE4WT	90 95	34 28	124 123				
K9MM KD4RH	167 166	39 40	206 206	PP1WW W4GEH	136 134	36 36	172 170	PR1G PP2CC	97 93	25 29	122 122			100W OI	
WS7L MIØBHX	167 169	38 36	205 205	PY4BZ K6MM	138 132	31 37	169 169	WØJW N7JP	92 91	29 30	121 121	Callsign Co	227	Zones 40	Score 267
PS8CW	167	38	205	PY2ADR	138	31	169	KJ9B	92	27	119	IK2RPE	219	40	259
W9VA	165	39	204	CE7KF	135	33	168	PY3NA	85	34	119	TA4RC	214	38	252
NC6R	165	39	204	KT7E	133	34	167	TA1SOR	91	28	119	EA8DHH	201	40	241
W8AV	165	38	203	N3CDA	135	32	167	ZS6SKY	89	30	119	TA1CM	201	38	239
PY2JG	166	37	203	WE6Z	131	36	167	K4NWX	95	24	119	PU2VLW	199	40	239

70057	400	40	000	. D)(400	04	07	440	NOTOF	407	00	400		50	00	70
ZS2EZ W9RF	198 198	40 40	238 238	PY1CC TA4MA	91 91	27 25	118 116	N6TCE PY1AX	127 131	36 31	163 162	WV7S KE7AUB	50 46	23 21	73 67
PY2MSR	189	39	228	AF9W	84	30	114	SQ9S	128	32	160	PU5YDD	45	21	66
TA5FA	191	35	226	WB4OMM	86	23	109	CT7AIX	129	31	160	K5EM	42	24	66
K9GA	186	39	225	W7DGP	79	30	109	CO2AJ	129	30	159	AF5CC	46	18	64
PU5KGB	183	40	223	YE4IJ	82	25	107	AB9YC	124	33	157	TA1HF	50	11	61
PY2CAT PY2CX	184 183	38 39	222 222	PY4CCL LY4K	83 84	23 21	106 105	W4JUU 8S9J	128 125	29 31	157 156	PY1CD TA1NAC	54 45	5 12	59 57
UR7FM	183	37	220	PU2NAX	82	22	103	PU3LYB	119	36	155	AA8MA	38	19	57
N9TF	180	39	219	TA2OLS	82	20	102	SP2TQQ	123	31	154	PY1RI	33	15	48
K5DC	181	37	218	YC7UVB	76	23	99	N1RDN	123	30	153	PU1JDU	37	10	47
TA2L	175	37	212	YC7UAH	70	26	96	OK6DJ	125	26	151	W2VU	31	13	44
LU5HA	175	36	211	IU2JWF	72	22	94	W9TD	116	34	150	PY1DX	32	10	42
SV1CIF PU2RTO	174 171	37 39	211 210	TA1API TA4BU	73 73	19 18	92 91	CT1END YY5AEP	117 119	29 27	146 146	WQ9F PU5NAO	22 20	13 14	35 34
PY2GTA	171	38	209	TC3STAY		19	90	KM8L	116	29	145	PU1NIO	13	6	19
PU9OJZ	171	38	209	PU5OEB	63	26	89	OK1BLU	112	30	142	PY5FNB	10	8	18
PS8MT	171	37	208	VK6HG	63	25	88	YCØSJA	106	36	142	PY5DU	9	6	15
PY2VA	169	39	208	TA7AL	69	19	88	PY1FI	110	28	138	PU1VFO	10	5	15
PY4EP	169	38	207 207	TA3X	69 67	18 20	87 87	PY5WD TA7UHS	111 106	27	138 138	PY1PL	2	2	4
PP5XA TA7I	169 167	38 39	207	PP5EI K6PDL	60	20 27	87	VE3TG	111	32 27	138				
GUØSUP	167	39	206	N7JI	63	23	86	PU2XYT	111	26	137	FORM	IULA CLAS	S - 5W O	PTION
YC1RKT	170	35	205	PV7M	64	16	80	K9OR	101	34	135				
PY2TC	168	37	205	PY3ZZR	59	21	80	CO2VE	105	29	134		Countries	Zones	Score
WT8E	167	37	204 203	TA2UMH	57 59	22 18	79 77	TC1ØØTBMN	l 104 101	28	132	OK2AP	221 161	39	260 198
PY2QT G4AYU	166 166	37 37	203	ZW1P W7TMT	59 49	25	77 74	PP5BT TA1HZ	100	28 29	129 129	CO2QU IZ3NVR	159	37 34	198
K7QDX	166	37	203	PU8NOW	52	20	72	PU4HUD	90	32	122	K8ZT	158	34	192
YB2HAF	162	38	200	KDØWUQ	51	20	71	PY5DD	92	29	121	W8QZA	138	37	175
CM2RSV	165	35	200	9A5MPV	59	10	69	MØXLT	102	18	120	PU5IKE	107	30	137
LU6FOV	169	30	199	TA1LFU	52	14	66	VA3IDD	94	23	117	KZ3I	106	26	132
SV9COL BI8CKU	162 160	35 37	197 197	TAØACL TC4A	57 47	7 11	64 58	PU5MFI K9WIS	89 86	27 29	116 115	VA3AMX DF5WW	85 79	25 17	110 96
PU4GOD	162	35	197	YB7WBC	35	22	57	DB5DY	94	20	114	HK4KM	65	19	84
SV1CKZ	162	34	196	TC1KESA		11	53	PY5JAP	78	33	111	KG1GEM	44	17	61
PY1SX	156	38	194	PY1EI	35	16	51	YC6JRT/0	82	28	110	N5ER	38	16	54
PY4ZO	156	37	193	WK6I	24	21	45	PU1JPY	88	17	105	KA1PPV	16	7	23
AF7NX	155	37	192	PU5JDA	27	16	43	N8FYL	79 77	21	100				
LW5DR SM6A	152 151	39 39	191 190	PT7APM PU9DCB	24 26	14 12	38 38	PY1KB TA2UTA	77 74	20 22	97 96	LATE	, SWL and	CHECK	OGS
AA4R	156	34	190	PY1MK	23	11	34	PJ7AA	69	25	94		., OTTE and	OHLOK	-000
N7RD	152	37	189	PY1PTS	23	9	32	N6NFB	66	26	92	Callsign	Countries	Zones	Score
PU2STZ	151	35	186	ZW1M	20	11	31	PG1R	72	18	90	K9EL	248	40	288
IK2WXQ	154	32 36	186	TC3D ZZ5BR	20 12	4 9	24 21	AI3KS	67	19 22	86 85	KC6AWX	235	39 40	274 255
VE9VIC PY4BK	148 141	38	184 179	PU5RSL	10	8	18	PY2MIA PY1NS	63 59	20	79	K9EL-Dig HAØØØØ		38	240
HB9DDZ	140	38	178	TA3NTI						25					143
					7	4	11	PY1AN	50		75	4Z4UO	119	24	
OZ8FTDM	139	36	175	PR1M	7 5	4 5	11 10	PYTAN PR5J	50 56	18	75 74	4Z4UO PY5IN	119 76	24 27	103
WA3WZR	142	33	175												
WA3WZR KI1U	142 144	33 30	175 174	PR1M	5	5	10								
WA3WZR KI1U KG5RJ	142 144 140	33 30 34	175 174 174	PR1M		5	10								
WA3WZR KI1U	142 144	33 30	175 174	PR1M FORMU	5 ILA CLASS	5 - 100W (10 OPTION								
WA3WZR KI1U KG5RJ YO4AAC	142 144 140 136	33 30 34 37	175 174 174 173	PR1M	5 ILA CLASS	5	10								
WA3WZR KI1U KG5RJ YO4AAC YM2KD PU5BOY NA8W	142 144 140 136 138 141	33 30 34 37 35 31 35	175 174 174 173 173 172 171	FORMU Callsign OK2FD IUØLFQ	5 ILA CLASS Countries 223 210	5 - 100W C Zones 40 39	10 DPTION Score 263 249								
WA3WZR KI1U KG5RJ YO4AAC YM2KD PU5BOY NA8W PP5TG	142 144 140 136 138 141 136 140	33 30 34 37 35 31 35 31	175 174 174 173 173 172 171	FORMU Callsign OK2FD IUØLFQ YV5OIE	5 ILA CLASS Countries 223 210 197	5 - 100W C Zones 40 39 40	10 DPTION Score 263 249 237								
WA3WZR KI1U KG5RJ YO4AAC YM2KD PU5BOY NA8W PP5TG ZP5DNB	142 144 140 136 138 141 136 140	33 30 34 37 35 31 35 31 30	175 174 174 173 173 172 171 171	FORMU Callsign OK2FD IUØLFQ YV5OIE HA7LJ	5 Countries 223 210 197 192	5 - 100W C Zones 40 39 40 40 40	10 DPTION Score 263 249 237 232								
WA3WZR KI1U KG5RJ YO4AAC YM2KD PU5BOY NA8W PP5TG ZP5DNB TA4PR	142 144 140 136 138 141 136 140 141	33 30 34 37 35 31 35 31	175 174 174 173 173 172 171	FORMU Callsign OK2FD IUØLFQ YV5OIE HA7LJ SV1AZL	5 ILA CLASS Countries 223 210 197	5 - 100W C Zones 40 39 40	10 Score 263 249 237 232 232								
WA3WZR KI1U KG5RJ YO4AAC YM2KD PU5BOY NA8W PP5TG ZP5DNB	142 144 140 136 138 141 136 140	33 30 34 37 35 31 35 31 30 31	175 174 174 173 173 172 171 171 171	FORMU Callsign OK2FD IUØLFQ YV5OIE HA7LJ	5 Countries 223 210 197 192 196	5 - 100W C Zones 40 39 40 40 36	10 DPTION Score 263 249 237 232								
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WA3WZR KI1U KG5RJ YO4AAC YM2KD PU5BOY NA8W PP5TG ZP5DNB TA4PR TA2LP W4UM ON6SAT IKØALT TA2FE	142 144 140 136 138 141 136 140 141 139 136 132 123 127 124	33 30 34 37 35 31 35 31 30 31 33 30 37 33 35	175 174 174 173 173 172 171 171 171 170 169 162 160 160 159	PR1M Callsign OK2FD IUØLFQ YV5OIE HA7LJ SV1AZL PP2RON W4UWC AD1C F4GYM NESW	5 Countries 223 210 197 192 196 195 186 187 186 179	5 - 100W C Zones	10 Score 263 249 237 232 232 232 225 225 225 219								
WA3WZR KI1U KG5RJ YO4AAC YM2KD PU5BOY NA8W PP5TG ZP5DNB TA4PR TA2LP W4UM ON6SAT IKØALT	142 144 140 136 138 141 136 140 141 139 136 132 123	33 30 34 37 35 31 35 31 30 31 33 30 37 33	175 174 174 173 173 172 171 171 171 170 169 162 160	PR1M FORMU Callsign OK2FD IUØLFQ YV5OIE HA7LJ SV1AZL PP2RON W4UWC AD1C F4GYM	5 Countries 223 210 197 192 196 195 186 187 186	5 - 100W C Zones 40 39 40 40 36 37 39 38 39	10 Score 263 249 237 232 232 232 232 225 225 225								
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