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

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

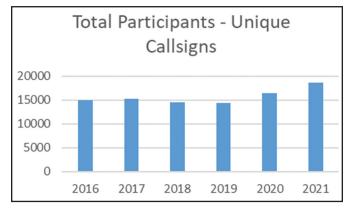
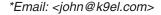


Table 1.



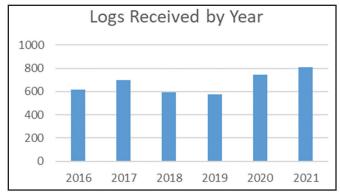


Table 2.

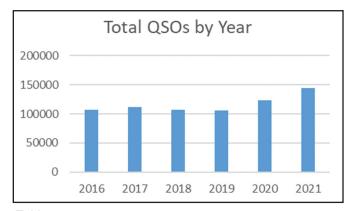


Table 3.

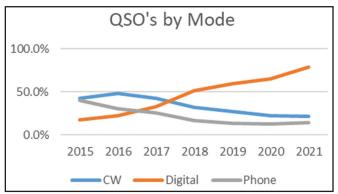


Table 4.

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 S	CORES	
BOLD = Plaque Winners	ZS2EZ249	PU2MBO207	PA3FQA252
* = Certificate Winners	ZD8HZ176	PY5DD193	PAØINA233
Callsign is followed by Score	3V8SS158	PY4CCL33	LB6GG228
cancigit to tollowed by cools	01000	1 1 400E00	SN5J172
	Asia	15 Meters	01400172
Unlimited Class	JH1AJT306		CW – North America
JH1AJT306	TA2LG291	PU2UAF262	K5BG230
K2ZJ301	JAØDAI287	PP5RG240	W4JS230
DJ3AA299		PU2VLW229	K2UF209
NØFW299	TA4RC285	PU2RTO226	
VE3VEE297	JL1IEO271	PY2OM202	VE9VIC196
Limited Class	Europe	17 Meters	W2NK192
	DJ3AA299	PY2TC274	Clubs
K2JL285	OM3EY291		RIO DX Group15102
SV2AEL284		PC3T252	CDR Group10891
IK2RPE278	OK2FD291	PY5IP194	Wstrn. Wash. DX Club9733
PY2TC274	CT1IUA285	LY5M194	N. III. DX Assoc8898
E76C274	OM5XX284		Araucaria DX Group4964
F 1 0' '22	Novth America	20 Meters	7.1.4304114 D7. G104p4904
Formula Class - 100w	North America	VE3VEE297	
OK2FD291	K2ZJ301	PY4JW220	Zones
EA8DHH265	NØFW299	PY5DK212	KL7TC*230
PY2DPM261	VE3VEE297	YI3WHR146	W7CD*281
KM8V253	W9ILY295	PY2IG144	
OD5YA251	N2BJ295		NØFW*299
		30 Meters	K2ZJ261
Formula Class - 5w	Oceania	K2TQC259	KP4JRS*208
OK2AP282	YB5QZ291	LY5O250	HK3W*244
IZ3NVR268	VK3GA286	PY2LCD234	OA4DX*100
WG5G266	VK3BDX276	DL7JAN195	PY7ZZ243
K8ZT206	ZL2IFB258	FG4NO194	CE3DOH*183
W8QZA176	ZM1A249	1 44110104	CX3AL*203
	ZIVITA249	40 Meters	DJ3AA262
CW	South America	PY4AZ269	OM3EY*251
OK2PAY266		W9KNI	R6YY*236
PA3FQA252	PY7ZZ283	ON6SAT198	R9AB*164
PAØINA233	HK3W282		TA2LG*251
K5BG230	PY2TC274	OD5ZF194	A92GE*201
W4JS230	PY4AZ269	K9CJ167	VU2IBI*206
VV403230	PY2COY264	00 Mataus	BV1EK*142
Phone		60 Meters	JH1AJT266
	6 Meters	W1NG196	E29TGW*209
W4HY252 PY5QW247	F4GGJ*162	IZ8MXB138	4F3BZ*182
	W3KX130	20.14	YB5QZ251
IZ5CML239	IW2CAM119	80 Meters	VK6DW*181
PY6HD229	N4QS111	PP5JR233	VK3GA*246
PY4JW220	CT7AQS96	DL6DH214	KH7Q*126
Disital		W3LL176	ZL2IFB*218
Digital	10 Meters	PU9OJZ172	CT3MD239
OM5XX284	9A2EU201	N3QE140	ZD8HZ*141
SV2AEL284	PY2TMV178		ZS2EZ*210
N3SL283	PY2YU169	160 Meters	TF3JB*200
PY7ZZ283	PY2XYZ167	LA3MHA*174	200
HA1RB282	HZ1SK159	K7ZV164	Note: Top scorers in some zones
	1121010	PY5XH35	received Plaques or Country
Africa			Certificates.
CT3MD279	12 Meters	CW – Europe	Continuates.
EA8DHH265	PY5EG240	OK2PAY266	



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

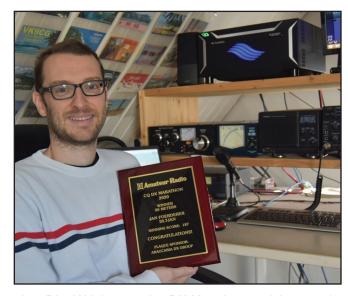
finished second and third with scores of 268 and 266 respectively.

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-meter bands. 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 guite 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 15meter 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
3V8SS*158
4F3BZ221
4X4MF*267
5P1KZX*270
8S9J*241
9A2EU201
A92GE240
BV1EK181
CB0ZZ*84
CE3DOH218
CO2QU*247
CT1IUA*285
CT3MD279
CX3AL243
DJ3AA299
E29TGW248
E76C*274
EA8DHH265
EI7CC*203
ES1LL*222
EV1R*270
F6GCP*275
FG4NO*194
G6MXL*188
GUØSUP*229
GW3SEC* 162

Callaian is followed by seers

HA1RB*	282
HB9DDZ*	157
HK3W	
HZ1SK*	
IK2RPE*	
ISØFWY*	
IT9ODQ*	
JH1AJT	
K2ZJ	
KH7Q	
KL7TC	
KP4JRS	
LB6GG*	
LU5FF*	
LX1EA*	
LY5O*	
LZ5VK*	
MIØBHX*	207
OA4DX	
OD5ZZ*	
OE1SGU*	
OH2BLD*	
OK2FD	
OM3EY	
ON6NL*	
PA3FQA*	
PJ4NX*	
PJ7AA*	
PYØF*	155

PY7ZZ	283
R6YY	276
R9AB	202
S56A*	159
SQ8N*	277
SV2AEL*	284
SV9COL*	252
TA1CM*	266
TA2LG	291
TF3JB	240
TO9W*	148
UR7FM*	226
VE3VEE	297
VK3GA	286
VU2IBI	246
YB5QZ	
YI1WWA*	165
YL1ZF*	200
YO9HP*	258
YV4ABR*	252
ZD8HZ	176
ZL2IFB	258
ZP5DNB*	163
ZS2EZ	249

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 plague 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 160meter 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

RIO DX Group	Prozil	1510
CDR Group		
CDR Group	Brazii .	1089
Western Washington DX Club	vvasnington, USA .	973
Northern Illinois DX Association	Illinois, USA .	889
Araucaria DX Group	Brazil .	496
Willamette Valley DX Club	Oregon, USA	408
Mother Lode DX/Contest Club		
Carolina DX Association	North Carolina, USA .	360
East Tennessee DX Association		
Italian Contest Club		
Chilean Pacific Dx Group		
UBRO		
CABREUVADX	Brazil .	127
Southern California Contest Club	California, USA .	124
Associacao Dos Radioamadores Do Parana		
Yankee Clipper Contest Club	USA .	117
Vytautas Magnus University Radio Club	Lithuania .	111
Salt City DX Association	New York, USA .	105
Potomac Valley Radio Club	USA .	97
Florida Contest Group	Florida, USA .	93
VU Contest Group	India	82
CMDX Group	Brazil .	81
Hudson Valley Contesters and DXers	New York, USA .	79
CDXC		78
Bavarian Contest Club	Germany	73
Central Arizona DX Association	Arizona. USÁ .	66
Society of Midwest Contesters	USA .	62
YBLand DXing Passion Is	Indonesia	61
GDXC	Cuba	61
Radio Club Venezolano	Venezuela	60
SP DX Club		
Kansas City DX Club		
Just for Fun Contest Club	Germany	52
Yokohama DX Club		
599 DX Group		
NERG		
Black River Radio Ops		
Metro DX Club		
LU Contest Group		
Lone Star DX Association	Texas USA	44
CDXA		
Clipperton DX Club (CDXC)		
South Jersey DX Association	New Jersey LISA	43
Duzce Amateur Radio Association	Turkey	
WNYDXA	New York 11SA	30
Cantareira DX Group		
Mississippi Valley DX and Contest Club	LICA	35
DARC		
OM3KEG		
YB Land DX Club		
GPDX		
TEAMPAPA Tennessee Contest Group	Iurkey	28
Arizona Outlaws Contest Club	Arizona, USA .	28

Club		Score
A.R.I		
BHCCBo	snia and Herzegovina .	274
Belarus Contest Club	Belarus .	270
CWOp's		
URE		265
Remote Ham Radio Youth		
C.S. Petrolul Ploiesti		
SEMBXA		
CWJF	Venezuela .	252
Grand Mesa Contest Club		
WVDXC		
Southeastern DX Club		
SSA		
Regionalis Radios Sportklub Puspokladany		
Rhein Ruhr DX Association	Austria .	231
Woodbridge Wireless	USA .	231
Southern California DX Club		
FOC	Norway .	228
Club FT8		
GITRAD		
DX3H Ham Society of The Philippines, Inc		
MINAS DX Group		
CARL, Inc		
RRDXA		
CTRI Contest Group	USA .	212
Mile High DX Association		
YBDXPI		
North Coast Contest Club		
NEWDXA		
Sao Paulo Contest Group		
YO DX Club		
FT8DMC	France .	200
Southwest OH DX Association		
ARNSW		
MCC	Canada .	196
Oklahoma Dx Association		
Contest Club Ontario Northern California DX Club	Canada .	192
University of Tokyo Contest Club		192
WACOM	Poppovlyopio IICA	100
ARAF	Feririsyivarila, USA .	100
Nixa Amateur Radio Club		
Central DX and Contesting Club		
North Shore Radio Club (IL)	Illinois LICA	156
NORONHA DX Group		
Radio Club Valencia		
KY Contest Group	Kentucky IICA	159
Danish DX Group		
Barefoot Contest Club		
Trujillo Alto Contest Club		100
Waverley ARS		
United Station of America		
G-QRP		
G-QRP		//

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.

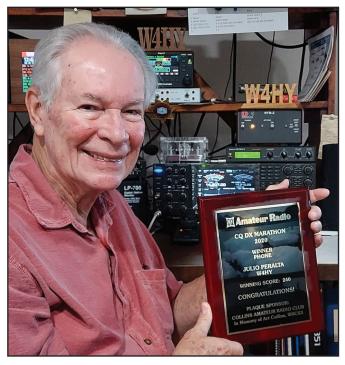
In the popular club competition, the Rio DX Group in Brazil took top honors with an aggregated score of 15,102 pushing the previous club winner CDR Group in Brazil to second place at 10,891. The top North American club score, and third overall, was by the Western Washington DX Club at 9,733. Perennial 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		W4AA8R*	247
VU2DED*	128	W5K5DC*	215
IZ5CML*	239	W6WK6I*	
W4HY		W7AF7NX*	
VK2BY*		W8WT8E*	
PY5QW*		W9K9GA*	
		WØKYØO*	
CW			
TA2SE*	159	USA Formula 100W	1
ZL3CW*		W1 W1NG*	
PY4XX*		W2KI2D*	205
		W3Al3KS*	
Digital		W4W4UWC*	224
EA8DHH*	265	W5AC7P*	
JL1IEO*		W6W7PC*	192
OM5XX	284	W7AD7UZ*	155
N3SL*	283	W8KM8V*	253
YB2HAF*		W9KW9U*	192
PY7ZZ		WØAD1C*	210
PY7ZZ		WØAD1C*	210
USA Unlimited	283	USA Formula 5W	
USA Unlimited W1N1EN*	283	USA Formula 5W W3KZ3I*	164
USA Unlimited W1N1EN*W2K2ZJ	283	USA Formula 5W W3KZ3 *W5WG5G*	164
USA Unlimited W1N1EN*W2K2ZJW3K3RA*	283 235 301 290	USA Formula 5W W3KZ3I* W5WG5G* W6W8QZA*	164 266 176
W1N1EN* W2K2ZJ W3K3RA* W4K4ZO*	283 235 301 290 292	USA Formula 5W W3KZ3 *W5WG5G*	164 266 176
USA Unlimited W1	283 235 301 290 292 230	USA Formula 5W W3KZ3I* W5WG5G* W6W8QZA* W8K8ZT*	164 266 176
USA Unlimited W1	283 301 290 292 230 268	USA Formula 5W W3KZ3I* W5WG5G* W6W8QZA* W8K8ZT* Canada	164 266 176 206
W1	283 301 290 292 230 268 281	USA Formula 5W W3KZ3!* W5WG5G* W6W8QZA* W8K8ZT* Canada VE2BR*	164 266 176 206
W1	283 235 301 290 292 230 268 268 281	USA Formula 5W W3KZ3I* W5WG5G* W6W8QZA* W8K8ZT* Canada VE2BR* VE3VEE	164 266 176 206
USA Unlimited W1	283 235 301 290 292 230 268 268 281 299 295	USA Formula 5W W3KZ3I* W5WG5G* W6W8QZA* W8K8ZT* Canada VE2BR* VE3VEEVA7CRZ*	164 266 176 206 265 297 171
W1	283 235 301 290 292 230 268 268 281 299 295	USA Formula 5W W3KZ3I* W5WG5G* W6W8QZA* W8K8ZT* Canada VE2BR* VE3VEEVA7CRZ* VE9VIC*	164 266 176 206 265 297 171
USA Unlimited W1 N1EN* W2 K2ZJ W3 K3RA* W4 K4ZO* W5 K5BG W6 K6RO* W7 W7CD W8 NØFW W9 W9ILY* WØ N3SL	283 235 301 290 292 230 268 268 281 299 295	USA Formula 5W W3KZ3I* W5WG5G* W6W8QZA* W8K8ZT* Canada VE2BR* VE3VEEVA7CRZ*	164 266 176 206 265 297 171
USA Unlimited W1	283 235 301 290 292 230 268 281 299 295 283	USA Formula 5W W3KZ3I* W5WG5G* W6W8QZA* W8K8ZT* Canada VE2BR* VE3VEEVA7CRZ* VE9VIC*	164 266 176 206 265 297 171
USA Unlimited W1	283235301290292230268281299295283	USA Formula 5W W3	164 266 176 206 265 297 171
USA Unlimited W1	283235290292230268281299283	USA Formula 5W W3KZ3I* W5WG5G* W6W8QZA* W8K8ZT* Canada VE2BR* VE3VEEVA7CRZ* VE9VIC*	164 266 176 206 265 297 171



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

	UNLIMITE	D 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	JL1IEO	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	YO9HP	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	WI7N	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	NIØC	116	31	147
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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	K9IR	146	37	183	CB6I	109	33	142
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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
	206	39	245			39	209	KB2S/2	149	28		PT1K	104	32	
W1SRD				WC3W	170						177				136
WØMB	207	37	244	PU2SWR	173	36	209	ZL1BBW	139	38	177	N7RVD	101	35	136
KZ2I	205	39	244	K1SND	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	MIØBHX	170	37	207	K4MV	143	32	175	PU1VMA	102	32	134
WY7W	206	36	242	PS8MT	170	37	207	TF3DC	141	34	175	W6BRY	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
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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	NØVT	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	WAØJZK	140	31	171	K7HBN	96	30	126
KØXM	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	EI7CC	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
				NY9H			200	KH7Q	126			KB7HDX			
PP5JR	193	40	233		163	37				37	163		86	33	119
PAØINA	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
KØLB	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	PT7WM	157	39	196	K1GU	123	34	157	PT7KM	84	28	112
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W4UW	189	39	228	DL7JAN	159	36	195	WX7HS	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	PYØF	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	107
IKØPEA	185	38	223	PY2GIG	155	38	193	PY1KB	121	32	153	PY1BL	84	23	107
K4RUM	185	37	222	KC7V	154	38	192	CE3PCG	120	33	153	PU1MIL	78	28	106
K8YE	182	40	222	NV4A	155	37	192	W9PL	117	36	153	CE3BN	77	29	106
WB6JJJ	183	38	221	JA8XQI	154	38	192	PY2ZEA	117	35	152	S5630A	82	23	105
KX1X	184	37	221	N7BV	155	36	191	PT7BI	121	30	151	TA1API	82	23	105
PY7ZC	189	32	221	KT7E	154	37	191	PY2TTE	119	31	150	N2RJ	80	25	105
PY4JW	182	38	220	W3DQS	157	33	190	KC3D	118	32	150	N6VH	75	30	105
PY2OKB	181	39	220	PY4FD	149	40	189	WR7T	114	36	150	K6SEA	74	30	104

K7WTG PY4ME	70	0.1	101	4 E7NV	100	40	000	7700	104	20	100	VEOTO	150	00	100
	73 78	31 26	104 104	AF7NX LU5FF	199 198	40 39	239 237	ZZ2P YM2KD	104	32 33	136 136	VE3TG KW9U	159 157	33 35	192 192
TA1ED	79	24	103	PP1WW	192	39	231	YB1RKT	103	33	136	W7PC	156	36	192
N9EP	76	27	103	GUØSUP	189	40	229	PY2VH	102	34	136	KM4VI	158	32	190
CE3MRD	81	21	102	PU2VLW	191	38	229	YO3HEX	110	25	135	G6MXL	151	37	188
N1YU	81	21	102	LB6GG	191	37	228	PY2SFA	102	33	135	EI3CTB	153	34	187
DG2BAR	82	19	101	PU2RTO	188	38	226	PY1NS	103	30	133	AC7P	143	33	176
PU8PSF	87	13	100	YV4BCD	186	38	224	PY5IN	101	30	131	PY5WD	141	33	174
W7AC	71	28	99	ES1LL	183	39	222	WT8P	96	35	131	OE3OSB	137	37	174
PT7KC	79	20	99	4F3BZ	182	39	221	YCØDMS	100	30	130	F6GGA	135	35	170
PY2XZ	75	24	99	PU2YMH	182	37	219	CO2VE	103	26	129	VA3IDD	135	33	168
PY2MIG	73	26	99	AA4R	178	40	218	OA4DX	100	29	129	CO2AJ	129	36	165
W7EED	71 74	28 25	99 99	K5DC LU2NI	178 175	37 39	215 214	PU5YSV	105 99	23 28	128	PP2RON PY2VCP	128 139	36 24	164
ON7WM PY2NFT	74 77	25 21	98	IN3FHE	175	39	214	PY2TTN KR7X	99	33	127 126	JE1FYV	124	36	163 160
ZZ1M	73	24	97	K7ACZ	175	38	213	PP5BT	96	28	124	JA1IRH	120	37	157
W7SLS	68	29	97	PP5XA	174	39	213	ZW2T	98	23	121	WQ9F	123	33	156
CT7AQS	78	18	96	LY2KM	172	40	212	IK2WXQ	94	27	121	AD7UZ	120	35	155
UX1UF	69	25	94	CM2RSV	175	37	212	W7DGP	87	32	119	PU9YCZ	121	34	155
WB9VRQ	68	26	94	PU2STZ	171	38	209	PY1KS	88	30	118	SQ9S	125	29	154
TA8DX	71	19	90	WT8E	172	37	209	PY2OSD	88	30	118	YV6CA	119	35	154
PY2MP	64	24	88	PY1SX	168	40	208	CE3KH	88	29	117	YV5AEP	123	29	152
TA5BS	67	21	88	PY2VA	170	38	208	TA7OYG	91	25	116	IUØITX	120	31	151
W7ZB	59	29	88	TA7I	171	36	207	PU5JDA	88	28	116	PY2SGL	123	28	151
K7ZS	58	29	87	PY2SR	167	36	203	PY4HI	89	26	115	TA2E	117	28	145
TC4A	69	17	86	TA4IGN	164	36	200	YE4IJ	83	31	114	MØXLT	115	25	140
K7MO CBØZZ	57 66	28	85 84	YL1ZF PY2UGO	168	32 33	200 197	WK6I	80 85	32 26	112	TA1SOR PY6BK	106 108	33 30	139
PY5ARP	60	18 24	84	PU8YPL	164 159	37	196	TA4AU PU5FJR	82	23	111 105	VK3TUN	104	34	138 138
N3QQ	58	26	84	PY4ZO	158	37	195	PU5MFI	78	27	105	KYØQ	106	32	138
PU2MTH	58	25	83	AF5CC	159	35	194	KYØO	79	23	102	N6NFB	106	31	137
W4PGM	60	23	83	FG4NO	160	34	194	AE7U	71	28	99	DL4EAX	110	27	137
LZ5VK	63	19	82	W2NK	158	34	192	ZV2F	71	28	99	DM4EAX	105	30	135
PR4A	60	18	78	F4GTB	150	38	188	PY7BC	66	27	93	PY4BK	102	31	133
PY2DSN	52	26	78	K9UB	151	37	188	PP5EI	69	21	90	CE6KL	106	27	133
DL9EE	50	27	77	PU2WSQ	155	32	187	W7TMT	57	24	81	VK2EY	97	32	129
PY2NNM	52	25	77	M3AWD	150	36	186	YB6DE	57	23	80	TAØACL	96	32	128
CT7ANO	54	22	76	WA3WZR	153	32	185	PX2O	58	17	75	W3GW	98	29	127
PV7M	60	14	74	W1MI	150	35	185	PP5GTA	48	21	69	N1RDN	101	25	126
JO7KMB	52	19	71	TA2XX	148	36	184	ZW1P	52	15	67	IK2ULV	95	24	119
ZX2E	52	18	70	PP5AMP	163	19	182	PY2LRZ	42	17	59	PJ7AA	82	33	115
KU4NY PY1MK	53 53	15 15	68 68	PT7ZT PY1AX	144 150	38 32	182 182	PY4WWW K7WA	37 33	18 21	55 54	N6TCE PG1R	82 84	32 23	114 107
PY2MAM	49	16	65	K7VAP	144	38	182	K5EM	27	18	45	N9TF	80	23 27	107
PU2XPX	48	15	63	IQ2GM	148	33	181	PY2GTA	25	18	43	PY3ZZR	81	23	104
ZY1F	42	19	61	PY2KO	149	31	180	PU5RSL	28	15	43	PY5FNB	76	28	104
TA8BZ	46	14	60	AK1P	145	34	179	PY1AN	28	11	39	PY2MIA	76	27	103
ZY2O	43	17	60	PY2TMV	147	31	178	PY7RP	24	12	36	AI3KS	83	20	103
PY1BAB	42	13	55	ZD8HZ	141	35	176	PY4CCL	22	11	33	PU4HUD	74	28	102
W7DX	37	16	53	IU2JWF	138	34	172	PY1EI	9	5	14	WV7S	66	29	95
			53	PU9OJZ	138	34	172	PY3ASQ	5	5	10	N7JI	60	32	92
PY4RR	39	14	00				172	PY1LU	1	1	2	KE7AUB		00	88
PY4RR W6LP	39 32	14 18	50	SN5J	144	28		FILLO				INLIAOD	62	26	00
				KE4QCM	144 139	28 33	172	FILO				TA2UCT	66	19	85
W6LP K6DW ZV32ZT	32 30 37	18 19 11	50 49 48	KE4QCM WB9Z/4	139 134	33 35	172 169					TA2UCT PU5NAO	66 53	19 20	85 73
W6LP K6DW ZV32ZT HA5XA	32 30 37 35	18 19 11 9	50 49 48 44	KE4QCM WB9Z/4 KG5RJ	139 134 133	33 35 35	172 169 168	FORMUL			PTION	TA2UCT PU5NAO K9EGS	66 53 50	19 20 21	85 73 71
W6LP K6DW ZV32ZT HA5XA K6SZQ	32 30 37 35 25	18 19 11 9 19	50 49 48 44 44	KE4QCM WB9Z/4 KG5RJ N9DMM	139 134 133 133	33 35 35 35	172 169 168 168	FORMUL Callsign C	ountries	Zones	OPTION Score	TA2UCT PU5NAO K9EGS AD8CM	66 53 50 49	19 20 21 18	85 73 71 67
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT	32 30 37 35 25 32	18 19 11 9 19	50 49 48 44 44 44	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ	139 134 133 133 138	33 35 35 35 29	172 169 168 168 167	FORMUL Callsign C OK2FD	countries 251	Zones 40	OPTION Score 291	TA2UCT PU5NAO K9EGS AD8CM PY4NF	66 53 50 49 39	19 20 21 18 12	85 73 71 67 51
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE	32 30 37 35 25 32 30	18 19 11 9 19 12	50 49 48 44 44 44 40	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA	139 134 133 133 138 131	33 35 35 35 29 34	172 169 168 168 167 165	FORMUL Callsign C OK2FD EA8DHH	251 226	Zones 40 39	OPTION Score 291 265	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ	66 53 50 49 39 41	19 20 21 18 12 9	85 73 71 67 51 50
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG	32 30 37 35 25 32 30 26	18 19 11 9 19 12 10	50 49 48 44 44 44 40 39	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA G4AYU	139 134 133 133 138 131	33 35 35 35 29 34 32	172 169 168 168 167 165	FORMUL Callsign C OK2FD EA8DHH PY2DPM	251 226 221	Zones 40 39 40	DPTION Score 291 265 261	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU	66 53 50 49 39 41 30	19 20 21 18 12 9	85 73 71 67 51 50 47
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM	32 30 37 35 25 32 30 26 26	18 19 11 9 19 12 10 13	50 49 48 44 44 44 40 39 39	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA G4AYU ZP5DNB	139 134 133 133 138 131 133	33 35 35 35 29 34 32	172 169 168 168 167 165 165	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V	251 226 221 213	Zones 40 39 40 40	DPTION Score 291 265 261 253	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P	66 53 50 49 39 41 30 38	19 20 21 18 12 9 17	85 73 71 67 51 50 47 45
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST	32 30 37 35 25 32 30 26 26 29	18 19 11 9 19 12 10 13 13	50 49 48 44 44 40 39 39 36	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA G4AYU ZP5DNB YG1AAH	139 134 133 133 138 131 133 131	33 35 35 35 29 34 32 32 34	172 169 168 168 167 165 165 163	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA	251 226 221 213 211	Zones 40 39 40 40 40	DPTION Score 291 265 261 253 251	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX	66 53 50 49 39 41 30 38 26	19 20 21 18 12 9 17 7	85 73 71 67 51 50 47 45 43
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM	32 30 37 35 25 32 30 26 26	18 19 11 9 19 12 10 13	50 49 48 44 44 44 40 39 39	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA G4AYU ZP5DNB	139 134 133 133 138 131 133	33 35 35 35 29 34 32	172 169 168 168 167 165 165	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V	251 226 221 213	Zones 40 39 40 40	DPTION Score 291 265 261 253	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P	66 53 50 49 39 41 30 38	19 20 21 18 12 9 17	85 73 71 67 51 50 47 45
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH	32 30 37 35 25 32 30 26 26 29	18 19 11 9 19 12 10 13 13 7	50 49 48 44 44 40 39 39 36 35	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA G4AYU ZP5DNB YG1AAH PY2CX	139 134 133 133 138 131 133 131 129 135	33 35 35 35 29 34 32 32 34 28	172 169 168 168 167 165 165 163 163	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU	251 226 221 213 211 208	Zones 40 39 40 40 40 39	DPTION Score 291 265 261 253 251 247	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV	66 53 50 49 39 41 30 38 26 16	19 20 21 18 12 9 17 7 17	85 73 71 67 51 50 47 45 43 31
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A	32 30 37 35 25 32 30 26 26 29 22	18 19 11 9 19 12 10 13 13 7 13 5	49 48 44 44 44 40 39 39 36 35	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC	139 134 133 133 138 131 133 131 129 135 132	33 35 35 35 29 34 32 32 34 28 30	172 169 168 168 167 165 165 163 163 163	FORMUL Callsign C CALSED EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD	251 226 221 213 211 208 207	Zones 40 39 40 40 40 39 38	DPTION Score 291 265 261 253 251 247 245	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH	66 53 50 49 39 41 30 38 26 16	19 20 21 18 12 9 17 7 17 15	85 73 71 67 51 50 47 45 43 31
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW	32 30 37 35 25 32 30 26 26 29 22 30 20 15	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8	50 49 48 44 44 40 39 39 36 35 35 32 25 21	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD	139 134 133 133 138 131 133 131 129 135 132 129 126 126	33 35 35 35 39 34 32 32 34 28 30 33 35 33	172 169 168 168 167 165 163 163 163 162 162 161	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB	251 226 221 213 211 208 207 203 203 200	Zones 40 39 40 40 40 40 39 38 40 38 40	DPTION Score 291 265 261 253 251 247 245 243 241 240	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ	66 53 50 49 39 41 30 38 26 16	19 20 21 18 12 9 17 7 17 15 10 6	85 73 71 67 51 50 47 45 43 31 20
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5	50 49 48 44 44 40 39 36 35 35 32 25 21	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK	139 134 133 138 131 133 131 129 135 132 129 126 126 127	33 35 35 35 29 34 32 32 34 28 30 33 33 35 33	172 169 168 168 167 165 165 163 163 163 162 162 162 161 159	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW	251 226 221 213 211 208 207 203 203 200 200	Zones 40 39 40 40 40 39 38 40 38 40 39	DPTION Score 291 265 261 253 251 247 245 243 241 240 239	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ	66 53 50 49 39 41 30 38 26 16 10 8	19 20 21 18 12 9 17 7 17 15 10 6	85 73 71 67 51 50 47 45 43 31 20 14
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13	18 19 19 19 12 10 13 13 7 13 5 12 10 8 5 4	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG	139 134 133 133 138 131 131 132 135 135 132 129 126 126 127 125	33 35 35 35 29 34 32 32 34 28 30 33 35 33 35 33	172 169 168 168 167 165 163 163 163 162 162 161 159 159	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ	251 226 221 213 211 208 207 203 203 200 200 196	Zones 40 39 40 40 40 40 39 38 40 38 40 39 40	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Coi	66 53 50 49 39 41 30 38 26 16 10 8	19 20 21 18 12 9 17 7 17 15 10 6	85 73 71 67 51 50 47 45 43 31 20 14
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5	50 49 48 44 44 44 40 39 36 35 35 32 25 21 10 7	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IR2WAD HZ1SK PY3BEG TA2TC	139 134 133 133 138 131 131 129 135 132 129 126 126 127	33 35 35 35 35 29 34 32 34 28 30 33 35 33 32 33 33 33	172 169 168 168 167 165 163 163 163 162 161 159 159	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS	251 226 221 213 211 208 207 203 203 200 200 196 187	Zones 40 39 40 40 40 40 39 38 40 38 40 38 40 39 40 39	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Cor	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ	139 134 133 133 138 131 129 135 129 126 127 125 127 125 127	33 35 35 35 29 34 32 32 34 28 30 33 35 33 31 33 34	172 169 168 168 167 165 163 163 163 162 162 161 159 159 158	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR	251 226 221 213 211 208 207 203 200 200 196 187 186	Zones 40 39 40 40 40 39 38 40 38 40 39 40 39 40	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 226	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Col OK2AP IZ3NVR	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242 230	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 38	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7 4 4 2	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI	139 134 133 138 131 138 131 129 135 132 129 126 126 127 125 127 123 125	33 35 35 35 29 34 32 32 34 28 30 33 35 33 32 33 31 34 32	172 169 168 167 165 163 163 163 162 162 161 159 158 158 157	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL	251 226 221 213 211 208 207 203 203 200 200 196 187 186 186	Zones 40 39 40 40 40 39 38 40 39 40 39 40 39 39 39 40 39 39 40 39 39 40 39	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 226 225	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Cor OK2AP IZ3NVR WG5G	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242 230 226	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 38 40	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC	139 134 133 138 131 139 139 131 131 129 135 132 129 126 126 127 125 127 123 125 122	33 35 35 35 29 34 32 34 28 30 33 35 33 32 33 31 34 32 33	172 169 168 168 167 165 163 163 163 162 161 159 158 158 157 157	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC	ountries 251 226 221 213 211 208 207 203 203 200 196 187 186 186	Zones 40 39 40 40 40 40 39 38 40 38 40 39 40 39 39 39 39 39	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 226 225 224	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Col OK2AP IZ3NVR WG5G K8ZT	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242 230 226 169	19 20 21 18 12 9 17 7 17 15 10 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7 4 4 2	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC WA3JAT	139 134 133 138 131 139 135 131 129 135 132 129 126 127 125 127 123 125 129 126 127 123	33 35 35 35 29 34 32 32 34 28 30 33 35 33 32 33 31 34 32 33 31 34 32	172 169 168 168 167 165 163 163 162 162 162 159 159 159 158 157 157	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC YV5OIE	ountries 251 226 221 213 211 208 207 203 203 200 200 200 196 187 186 186 186 187	Zones 40 39 40 40 40 40 39 38 40 39 40 39 40 39 40 39 40 39 40 39 37	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 225 224 224	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Col OK2AP IZ3NVR WG5G K8ZT W8QZA	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS 242 230 226 169 139	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 38 40 37 37	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206 176
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD CE7BIY	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5	18 19 11 9 19 12 10 13 13 5 12 10 8 5 4 2 2 1	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7 4 4 2 2	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC	139 134 133 138 131 139 139 131 131 129 135 132 129 126 126 127 125 127 123 125 122	33 35 35 35 29 34 32 34 28 30 33 35 33 32 33 31 34 32 33	172 169 168 168 167 165 163 163 163 162 161 159 158 158 157 157	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC	ountries 251 226 221 213 211 208 207 203 203 200 196 187 186 186	Zones 40 39 40 40 40 40 39 38 40 38 40 39 40 39 39 39 39 39	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 226 225 224	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Col OK2AP IZ3NVR WG5G K8ZT	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242 230 226 169	19 20 21 18 12 9 17 7 17 15 10 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD CE7BIY	32 30 37 35 25 32 30 26 26 29 22 20 15 13 5 3 2 2 1	18 19 11 9 19 12 10 13 13 5 12 10 8 5 4 2 2 1	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7 4 4 2 2	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC WA3JAT PT8DX	139 134 133 138 131 131 129 135 132 129 126 126 127 125 127 125 127 123 125 122 129 126	33 35 35 35 29 34 32 32 34 28 30 33 35 32 33 31 34 32 33 31 34 32 33	172 169 168 168 167 165 163 163 163 162 162 162 159 159 158 157 157 157	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC YV50IE TA5FA	ountries 251 226 221 213 211 208 207 203 203 200 200 196 187 186 186 186 187 182	Zones 40 39 40 40 40 40 39 38 40 39 39 40 39 40 39 40 39 39 39 39 39 39 39 39	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 225 224 224 221	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Coi OK2AP IZ3NVR WG5G K8ZT W8QZA 4Z4UO	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242 230 226 169 139 136	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 38 40 37 37 29	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206 176 165
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD CE7BIY	32 30 37 35 25 32 30 26 26 29 22 20 15 13 5 3 2 2 1	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2 1 1	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7 4 4 2 2	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC WA3JAT PT8DX K4IE	139 134 133 138 131 139 131 129 135 129 126 126 127 125 127 123 125 122 139 124 121	33 35 35 35 29 34 32 32 34 28 30 33 35 33 32 33 31 34 32 33 31 32 33 31 32 31 31 31 31 31 31 31 31 31 31 31 31 31	172 169 168 168 167 165 163 163 163 162 162 161 159 158 157 155 155 155	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC VV5OIE TA5FA F4GYM	ountries 251 226 221 213 211 208 207 203 203 200 196 187 186 186 186 187 182	Zones 40 39 40 40 40 40 40 38 40 38 40 39 40 39 40 39 38 37 39 36	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 226 226 224 224 221 219	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Col OK2AP IZ3NVR WG5G K8ZT W8QZA 4Z4UO KZ3I	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242 230 169 139 136 135	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 38 40 37 37 29 29	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206 176 165 164
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD CE7BIY LIMITED Callsign C K2JL SV2AEL	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5 3 2 2 1 1 1	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2 1 1 1 100W OF Zones 40 40	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7 4 4 2 2 2 PTION Score 285 284	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC WA3JAT PT8DX K4IE PU1AJN CO5LB WZ8T	139 134 133 138 131 139 131 129 135 132 129 126 127 125 127 125 127 121 121 121 120 119	33 35 35 35 29 34 32 32 34 28 30 33 35 32 33 31 34 32 33 16 30 31 31 31	172 169 168 168 167 165 163 163 163 162 162 161 159 158 158 157 157 157 155 155 155 155 155 155 155	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC YV5OIE TA5FA F4GYM CE3BT DL2RPN CO8MCL	ountries 251 226 221 213 211 208 207 203 200 200 196 187 186 186 186 187 182 183 182 178	Zones 40 39 40 40 40 40 40 39 38 40 39 40 39 40 39 40 39 40 39 40 39 38 37 39 36 35 39 38	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 225 224 221 219 217 217 216	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Cor OK2AP IZ3NVR WG5G K8ZT W8QZA 4Z4UO KZ3I PY2BN PU2GTA N5ER	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242 230 226 169 139 136 135 95 92 74	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 37 37 29 29 26 24 22	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206 176 165 164 121 116 96
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD CE7BIY LIMITED Callsign C K2JL SV2AEL IK2RPE	32 30 37 35 25 30 26 26 29 22 30 20 15 13 5 3 2 2 1 1	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2 1 1 1 1100W OF Zones 40 40 40	50 49 48 44 44 44 40 39 39 36 35 35 22 25 21 10 7 4 4 2 2 2 PTION Score 285 284 278	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC WA3JAT FSDX K4IE PU1AJN CO5LB WZ8T AC3D	139 134 133 138 131 133 139 131 129 135 132 129 126 127 125 127 123 125 122 139 124 121 120 119 118	33 35 35 35 32 34 32 34 28 30 33 35 33 32 33 31 34 32 33 31 31 31 31 31 31 32	172 169 168 168 167 165 163 163 163 162 162 161 159 158 157 155 155 155 155 155 154 152 152 151 150	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC YV5OIE TA5FA F4GYM CE3BT DL2RPN CO8MCL ES4AW	ountries 251 226 221 213 211 208 207 203 203 200 196 187 186 186 186 187 182 183 182 178 173	Zones 40 39 40 40 40 40 40 38 40 38 40 39 40 39 40 39 38 37 39 36 35 39 38 40	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 226 224 221 219 217 217 216 213	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Cor OK2AP IZ3NVR WG5G K8ZT W8QZA 4Z4UO KZ3I PY2BN PU2GTA N5ER KG1GEM	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS 242 230 226 169 139 136 135 95 92 74 66	19 20 21 18 12 9 17 7 17 15 10 6 8S - 5W OF Zones 40 38 40 37 37 29 29 26 24 22 25	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206 176 165 164 121 116 96 91
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD CE7BIY LIMITED Callsign C K2JL SV2AEL IK2RPE PY2TC	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5 3 2 2 1 1 1	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 49 48 44 44 44 40 39 39 36 35 35 32 25 21 10 7 4 4 2 2 2 2 2 2 2 5 2 1 5 2 2 2 2 2 2 2 2 2	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC WA3JAT PT8DX K4IE PU1AJN CO5LB WZ8T AC3D PY2IML	139 134 133 138 131 139 135 131 129 135 132 129 126 127 125 127 123 125 127 123 125 127 121 120 119 118 129	33 35 35 35 32 34 32 32 34 28 30 33 35 33 32 33 31 34 32 33 31 31 31 31 31 31 31 32 22	172 169 168 168 167 165 163 163 162 162 161 159 159 158 157 157 157 155 154 152 151 150 149	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC YV5OIE TA5FA F4GYM CE3BT DL2RPN CO8MCL ES4AW PY4EP	ountries 251 226 221 213 211 208 207 203 203 200 200 200 196 187 186 186 186 187 182 183 182 178 178	Zones 40 39 40 40 40 40 40 39 38 40 39 40 39 40 39 40 39 40 39 38 37 39 36 35 39 38 40 39 38	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 225 224 221 219 217 217 216 213 212	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Col OK2AP IZ3NVR WG5G K8ZT W8QZA 4Z4UO KZ3I PY2BN PU2GTA N5ER KG1GEM 9A5MPV	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS 242 230 226 169 139 136 135 95 92 74 66 68	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 38 40 37 37 29 29 29 26 24 22 25 9	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206 176 165 164 121 116 96 91 77
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD CE7BIY LIMITED Callsign C K2JL SV2AEL IK2RPE E76C	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5 3 2 2 1 1 1	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2 1 1 1 100W OF Zones 40 40 40 40 40 40 40	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7 4 4 2 2 2 PTION Score 285 284 278 274 274	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC WA3JAT PT8DX K4IE PU1AJN CO5LB WZ8T AC3D PY2IML AF9W	139 134 133 138 131 139 135 131 129 135 132 129 126 127 125 127 128 129 126 127 121 121 121 121 121 120 119 118 129 114	33 35 35 35 32 34 32 34 28 30 33 35 33 32 33 31 34 32 33 31 31 31 31 31 32 20 33	172 169 168 168 167 165 163 163 163 162 162 161 159 159 158 157 157 157 155 154 152 152 154 150 150 140 147	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC YV50IE TA5FA F4GYM CE3BT DL2RPN CO8MCL ES4AW PY4EP	ountries 251 226 221 213 211 208 207 203 203 200 200 196 187 186 186 186 187 182 183 182 178 178 178	Zones 40 39 40 40 40 40 40 39 38 40 39 40 39 40 39 40 39 40 39 38 47 39 36 35 39 38 40 39 38 40 39 38	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 225 224 221 219 217 216 213 212 212	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Col OK2AP IZ3NVR WG5G K8ZT W8QZA 4Z4UO KZ3I PY2BN PU2GTA N5ER KG1GEM 9A5MPV M5AEF	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS 242 230 226 169 136 135 95 92 74 66 68 63	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 37 37 29 29 26 24 22 25 9 14	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206 176 165 164 121 116 96 91 77
W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD CE7BIY LIMITED Callsign C K2JL IX2RPE PY2TC E76C TA1CM	32 30 37 35 25 32 30 26 29 22 30 20 15 13 5 3 2 2 1 1 1 2 2 4 4 4 5 5 5 5 6 6 7 8 9 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1	18 19 11 9 19 12 10 13 13 7 13 5 12 10 8 5 4 2 2 1 1 1 100W OF Zones 40 40 40 40 40 40 40 40 40	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7 4 4 2 2 2 PTION Soore 285 284 278 274 266	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ Y11WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC WA3JAT PT8DX K4IE PU1AJN CO5LB WZ8T AC3D PY2IML AF9W PY1JR	139 134 133 138 131 139 131 129 135 132 129 126 127 125 127 125 127 121 120 119 118 129 114 115	33 35 35 35 32 34 32 34 28 30 33 35 32 33 31 34 32 33 31 31 31 31 32 20 33 33 31	172 169 168 167 165 163 163 163 162 162 161 159 158 158 157 157 155 155 155 155 155 150 150 147	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC YV5OIE TA5FA F4GYM CE3BT DL2RPN CO8MCL ES4AW PY4EP WB4RA AD1C	ountries 251 226 221 213 211 208 207 203 200 200 196 187 186 186 186 187 182 183 182 178 173 173	Zones 40 39 40 40 40 40 40 39 38 40 39 40 39 40 39 40 39 40 39 38 37 39 36 35 39 38 40 39 36 37	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 226 224 224 221 219 217 216 213 212 210	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Cor OK2AP IZ3NVR WG5G K8ZT W8QZA 4Z4UO KZ3I PY2BN PU2GTA N5ER KG1GEM 9A5MPV M5AEF PY1CMT	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242 230 226 169 135 95 95 97 466 68 63 55	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 38 40 37 37 29 29 26 24 22 25 9 14 16	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206 176 165 164 121 116 96 91 77 77
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W6LP K6DW ZV32ZT HA5XA K6SZQ PY1SGT W1VE PU2RHG PT7APM DD8UST PY5XH 9A/S56A PY1CD PY2RKG PY1XW PT9BM PY2ABN PY9TW PU2XMY ZV1SAD CE7BIY LIMITED Callsign C K2JL SV2AEL IK2RPE PY2TC E76C TA1CM K9GA PU2UAF	32 30 37 35 25 32 30 26 26 29 22 30 20 15 13 5 3 2 2 1 1 1 2 2 4 2 3 3 4 2 2 3 3 4 5 5 5 3 4 5 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	18 19 11 9 19 12 10 13 13 5 12 10 8 5 4 2 2 1 1 1 1 100W OF Zones 40 40 40 40 40 40 40 40 40 40 40 40 40	50 49 48 44 44 44 40 39 39 36 35 32 25 21 10 7 4 4 2 2 2 PTION Score 285 284 278 274 266 265 262	KE4QCM WB9Z/4 KG5RJ N9DMM PY2XYZ YI1WWA G4AYU ZP5DNB YG1AAH PY2CX GW3SFC ON2AD ADØK IK2WAD HZ1SK PY3BEG TA2TC HB9DDZ PY1FI AB9YC WA3JAT PT8DX K4IIE PU1AJN CO5LB WZ8T AC3D PY2IML AF9W PY1JR IJ3WHR IZ2BHQ	139 134 133 138 131 129 135 129 126 127 128 129 126 127 121 121 121 121 121 120 119 118 129 114 115 118	33 35 35 35 39 34 32 32 34 28 30 33 35 32 33 31 34 32 33 31 31 31 31 31 32 20 33 31 31 31 31 31 31 31 32 31 31 31 31 31 31 31 31 31 31 31 31 31	172 169 168 168 167 165 163 163 162 162 161 159 159 158 157 157 157 155 154 152 152 151 150 149 147	FORMUL Callsign C OK2FD EA8DHH PY2DPM KM8V OD5YA CO2QU LY2PAD CX3AL 8S9J TF3JB PS8CW HA7LJ PP2CS CX7BBR SV1AZL W4UWC YV50IE TA5FA F4GYM CE3BT DL2RPN CO8MCL ES4AW PY4EP WB4RA AD1C DL6GBM KI2D	ountries 251 226 221 213 211 208 207 203 203 200 200 200 196 187 186 186 186 186 187 182 183 178 178 178 178 173 176 173 169 174	Zones 40 39 40 40 40 40 40 39 38 40 39 40 39 40 39 40 39 40 39 38 37 39 36 35 39 38 40 39 36 37 40 39 38 40 39 31	DPTION Score 291 265 261 253 251 247 245 243 241 240 239 236 226 225 224 221 219 217 216 213 212 212 210 209 205	TA2UCT PU5NAO K9EGS AD8CM PY4NF TA1HZ PY5DU TA3P PU2NAX KD7WNV PU2OYH PY5IQ FORMUL Callsign Cor OK2AP IZ3NVR WG5G K8ZT W8QZA 4Z4UO KZ3I PY2BN PU2GTA N5ER KG1GEM 9A5MPV M5AEF PY1CMT	66 53 50 49 39 41 30 38 26 16 10 8 A CLAS untries 242 230 226 169 135 95 95 97 466 68 63 55	19 20 21 18 12 9 17 7 17 15 10 6 SS - 5W OF Zones 40 38 40 37 37 29 29 26 24 22 25 9 14 16	85 73 71 67 51 50 47 45 43 31 20 14 PTION Score 282 268 266 206 176 165 164 121 116 96 91 77 77
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