Results: 2019 CQWW 160-Meter Contest

Topband During the Extended Solar Minimum Years

BY ANDY BLANK*, N2NT

The team at VO2AC, which placed #9 in the Multi-Op World category, included (from l. to r.) VE9CB, VO2AC, and VO1HP.

A pattern has been emerging over the past few years. The 160-meter band is a great DX band during the solar minimum.

It seems the CW portion of the contest is capable of producing some large scores; however, the conditions on SSB in March have been sketchy at best, but with some good sunrise peaks.

While not approaching the golden year of 2009, when the band sounded like 20 meters, 2019 CW produced 29 scores over 1 million points.

The highest score of the contest was made by Dimitri, RA3CO, from CN2CO at 2.477 Meg, just edging out Jozef, OM3GI, operating from CT9ABO. The point advantage from Africa is quite evident here, but it takes some dedication to travel and set up during the winter to operate this contest.

Nowhere is that more evident than with the team from TKØC. Using a temporary 16-meter Spiderbeam Inverted 'L' with around 40 radials, and some assorted receiving antennas, the team from Slovenia won the World Multi Operator trophy. Great job by Goran, S55OO, and his fine team "Charlie."

On SSB, Max, IZ4DPV, traveled to the PJ4G contest station on Bonaire. He and station owner Noah, K2NG, operated the top Multi-op in the world at just under 600K points.

The only other stations able to break 600K on SSB were from Europe in the highly competitive Single-Op Assisted category. Rolandas, LY4A, had the highest score in the entire contest at 620K, with Petr, OK1BN, operating OK7K to 611K.

Many thanks again to the Bavarian Contest Club, which had 195 entries in the CQ 160 Contest. Their 28 Meg total is just below the 2018 29 Meg total, providing the main chunk of activity in Europe for the contest. As usual, the PVRC, YCCC, and FRC provided many entries from the U.S. and Contest Club Ontario is the big driver from Canada.

Congratulations to all the clubs for keeping up the activity, and thanks for the support.

CW Results

A record 2,740 logs were received for CW. Single-Op assisted and unassisted entries were about equal. Next year we will make the long overdue change to include a low-power Assisted entry as well.

The Millionaires club was well represented this year. Here is a list of all scores over 1 Meg.

CN2CO	2,477,250	VE3EJ	1,128,660
OM7M	1,210,560	4X2M	1,250,200
CT9ABO	2,452,908	E7DX	1,122,203
OK7K	1,189,800	ED8W	1,230,576
TKØC	1,840,484	EIØR	1,098,976
UA7K	1,164,114	NP2J	1,076,619
PJ2T	1,701,310	TM6M	1,065,875
HG8DX	1,157,698	RL3A	1,051,762
D4C	1,663,360	OK5Z	1,045,972
HB9CA	1,143,480	DM6V	1,041,228
P33W	1,551,716	DL6FBL	1,030,710
VO2AC	1,141,504	EF5Y	1,011,840
P4ØAA	1,502,439	SN7Q	1,010,850
LX7I	1,133,713	S5ØW	1,010,275
C6AGU	1,458,858		

Last year's Single-op winner, Kevin, N5DX, decided to try the highly competitive Multi-Op category this year. He was joined by his dad, K5GO; K5RM, and KM5G, operating remotely at the QTH of N2QV in New York from Arkansas. They surprised the perennial Multi-Op superstars from W2GD, and topped the field. KM3T, operating from KC1XX, reported that conditions were disturbed in the northeast the first evening. However, a great result was posted by the team at KØDI in Florida, making third place in the U.S. The VO2AC team was able to break 1 Meg for ninth place in the world as well.

North America was well represented by PJ2T, which has been operated by K8ND and W8WTS for many years, and C6AGU by AA7JV and N6MZ, who went to the warmer climates for great multi-op scores.

No 160 contest is complete without the stories from the "Briggs Brothers." The combined CW/SSB winner and Single-op U.S. winner on both modes was Peter, K3ZM. Peter reported great U.S. west coast conditions the first night.

*director@cq160.com

TROPHY WINNERS AND DONORS

World Single Operator Combined SSB/CW
Peter H Briggs, K3ZM
Donor: Ed Parish, K1EP

World Multioperator Combined SSB/CW
Andy Kazantsev, UA7K
(R3FA RK7A RW7K UB7K R6KVA ops)
Donor: Juan Carlos Munoz, TG9AJR

CW

SINGLE OPERATOR
World
Dimitri Kryukov,CN2CO
Donor: Bill Tippett, W4ZV- DJ8WL Memorial

U.S.A
Peter H Briggs, K3ZM
Donor: Milt Jensen, N5IA, Memorial by Arizona Outlaws Contest Club

Canada
Vladimir Milutinovic, VE3JM
Donor: VE2XAA Memorial by Thor Stefansson, TF4M

U.S.A. - Zone 3
Niko Cimbur, AC6DD
Donor: Bruce Butler – W6OSP Memorial

U.S.A. - Zone 4
Victor A. Kean, Jr., K1LT
Donor: Steve Schmidt, K4WA

U.S.A. - Zone 5
Velimir Deric (K3JO), K1LZ
Donor: Paul H. Newberry, Jr., N4PN

Africa
Luca Aliprandi (IK2NCJ), D4C
Donor: James "Skip" Riba, WS9V

Asia
Pavel Kukushkin, UN9L
Donor: Missouri DX/Contest Club

Europe
Olivier Seizelet (F1AKK), TM6M
Donor: Emir-Braco Memic, E77DX

South America
Mathias Kolpe (DL4MM), P4ØAA
Donor: John Rodgers, WE3C

Oceania
Bill Kollenbaum, KH7B
Donor: Will Angenent, K6ND

European Russia
Igor Avdeev, UA2FZ
Donor: UA2 Contest Club

Asiatic Russia
Alexey Bogomolov, RL9Y
Donor: UA2 Contest Club

Japan
Masaki Okano, JH4UYB
Donor: Alabama Contest Group

North America
Daniel Flaig (K8RF), NP2J
Donor: CQ magazine – N4IN Memorial

Southern Hemisphere
Tony Vieira, OA4DX
Donor: Robert Kile, W7RH

World Assisted
Jozef Lang (OM3GI), CT9ABO
Donor: Andy Chesnokov, UA3AB

Europe Assisted
Lubo Martiska (OM5ZW), OM7M
Donor: DX-Hotel DM9EE

U.S.A. Assisted
Dennis Egan, W1UE
Donor: Akito Nagi, JA5DQH

U.S.A. Assisted – Zone 3
Riki Kline, K7NJ
Donor: Larry Pace, N7DD

U.S.A Assisted – Zone 4
Jerry Rosalius, WB9Z
Donor: Pete Michaelis, N8TR

Assisted – Zone 5
Curtis W. Rose, N2ZX
Donor: Potomac Valley Radio Club

World Low Power
Ashraf Chaabane (KF5EYY), 3V8SF
Donor: Akito Nagi, JA5DQH

U.S.A. Low Power
Mark Bailey, KD4D
Donor: Rich Kennedy, N4ESS

Asia – Low Power
Mamuka Kordzakhia, 4L2M
Donor: Robert Kile, W7RH

Europe Low Power
Emir Tubic, E74O
Donor: Petr Ourednik, OK1RP – DL1RK Memorial

Canada Low Power
Ron Schwartz, VE3VN
Donor: Contest Club Ontario

World QRP
Peter Voelpel, DJ7WW
Donor: Wayne Mills, N7NG

U.S.A. QRP
Marty Ray, N9SE
Donor: Bob Raymond, WA1Z

U.S.A. QRP - Zone 4
Gregory Poel, W8GP
Donor: K9JWV Memorial by Dale Putnam, WC7S

Europe QRP
Milan Stejskal (OK1IF), OL4W
Donor: Peter Voelpel, DJ7WW

MULTI-OPERATOR
World
Goran Andric (S55OO), TKØC
(S53F, S53RM, S55OO, S57AL, S57C, S57NAW ops)
Donor: Hugh Valentine, N4RJ

U.S.A.
Kevin Stockton, N5DX
(K5RM, K5GO, KM5G, N5DX ops)
Donor: WØCD Memorial – K8GG W8UVZ

Europe
Petr Clupny, OK7K
(OK1BN, OK1DWP, OK1GK, OK1NS ops)
Donor: Bob Evans, K5WA

ZONE 16
Vladimir Aksenov, UA7K
(R3FA, RK7A, RW7K, UB7K ops)
Donor: Vladimir Lesnichy, R7LV

ASIA
Arthur Avrunin, 4X2M
(4X4DZ, 4Z4AK, 4Z5LA, 4X6FR, UZ5DX, UT5EL, UT5ECZ, UA9CDC, LY5W ops)
Donor: Nodir Tursoon-Zadeh, EY8MM

U.S.A - Zone 3
Lee Finkel, NA7TB
(KY7M, NA2U ops)
Donor: Tom Whitted, N7GP

SSB

SINGLE OPERATOR
World
Peter H Briggs, K3ZM
Donor: Nodir Tursoon-Zadeh, EY8MM

Notably missing was the VY2ZM superstation from Prince Edward Island in Canada.

Jeff was in Svalbard this weekend, and rented JW5E for one night. What he didn't count on was the aurora in the sky at the same time (see photos). Jeff operated 15 hours on Saturday night, making just 51 hard fought contacts. Now *that* is dedication.

Mark, KD4D, repeated his 2018 win from the U.S.; of course, operating from the W3LPL superstation helped a bit. N7IR from the west coast managed to break 100K points in Low Power and improve on last year's second-place finish.

In Canada, VE3VN, VE3VSM, and VE3YT were all bunched in the 230-260K range in low power.

Thanks to all the trophy donors, it is greatly appreciated. There were multiple repeat winners from 2018 this year: UA2FZ, JH4UYB, AC6DD, W1UE, VE3VN, KD4D, W8GP, ED8W, KH7XS, K2PM, VE3MGY, E77Y, LY4A, 4X2M, OK7K, P4ØAA. Congratulations to all!

Around the World

There were lots of guest ops in the hugely popular Single-op Assisted category (over 1,166 logs submitted) and there were 16 stations to make over 800K points.

CT9ABO	2,452,908	VE3NE	983,196
OM7M	1,210,560	VA2WA	964,348
LX7I	1,133,713	SN2M	949,960
P33W	1,551,716	G5W	920,734
VE3EJ	1,128,660	XE2X	865,920
P4ØAA	1,502,439	UA2FZ	845,250
DL6FBL	1,030,710	G3TXF	834,176
SN7Q	1,010,850	9A3TR	817,530

U.S.A.
Steven Sussman, W3BGN
Donor: W4PZV/W4SVO Memorial by Rick Dougherty, NQ4I

Canada
Yuri Onipko, VE3DZ
Donor: Tom Haavisto, VE3CX

U.S.A. – Zone 3
Leon Madziarski, NJ6P
Donor: Nate Moreschi, N4YDU

U.S.A. – Zone 4
David Jorgensen, WD5COV
Donor: Alabama Contest Group

U.S.A. – Zone 5
John Slusser, WF2W
Donor: Brent Scott, WR5O

Africa
Manuel Angel Martin Brito (EA8DO), ED8W
Donor: Carl Henson, WB4ZNH

Asia
Hudaverdi Gunes, TA7OM
Donor: CQ 160 Contest Committee

Europe
Dmytro Pavlik (UZ5DX), CU4DX
Donor: James "Skip" Riba, WS9V

European Russia
Sergey Chebotarev, RW1F
Donor: UA2 Contest Club

Asiatic Russia
Mikhail S. Ilyashenko, RA9Y
Donor: Steven "Sid" Caesar, NH7C

North America
Stan Stockton, ZF9CW
Donor: CQ magazine – K2EEK Memorial

South America
Victor Manuel Cuesta Gutierrez (YV4DYJ), YW4V
Donor: John Rodgers, WE3C

Oceania
Bill Kollenbaum (K4XS), KH7XS
Donor: Steve "Sid" Caesar - NH7C

Southern Hemisphere
Dave Sullivan, ZL2OK
Donor: John Rogers, WE3C

World Assisted
Rolandas Jokubauskas, LY4A
Donor: Ray Sokola, K9RS

Europe Assisted
Petr Clupny (OK1BN), OK7K
Donor: Curtis Rose, N2ZX

U.S.A. Assisted
Bryan Bydal, W5MX
Donor: Pete Michaelis, N8TR

U.S.A. Assisted – Zone 4
Peter Madsen, K2PM
Donor: Pete Michaelis, N8TR

World Low Power
Emir Tubic, E74O
Donor: Chuck Dietz, W5PR

U.S.A. Low Power
George Verciuc, W8CO
Donor: Tim Duffy, K3LR

Europe Low Power
Olivier Seizelet (F1AKK), TM6M
Donor: Contest Club Ontario

Canada Low Power
Brian Campbell, VE3MGY
Donor: Rudy Bakalov, N2WQ

World QRP
Maksim Kesic, E77Y
Donor: John Rodgers, WE3C

MULTI-OPERATOR
World
Massimo Cortesi, PJ4G (IZ4DPV, K2NG ops)
Donor: Southeastern DX Club

U.S.A.
Bob Schenck (N2OO), N2CW (K2GMT, K2RET, K8PT, KS3F, KZ2I, N2HM, N2HYG, N2OO, W2CG, W2NO, WN9Q, WS2C ops)
Donor: Jerry Rosalius, WB9Z

Europe
Andy Kazantsev, UA7K (R6KVA, RW7K, UB7K ops)
Donor: South Jersey DX Assocation, N2CW

Zone 3
SRRCC, K7JR (K7MK, K7ZO, NK7U ops)
Donor: Paulo, PV8DX

OM3GI, RA3AUU, DL4MM, OM5ZW, DL3BPC, SP7GIQ, and VE3NE all made the top 10 as guests. Harry, RA3AUU, reported less than stellar conditions from Cyprus at P33W. Mathias, DL4MM, operating from P4ØAA., spent some days trudging through the vegetation to erect Beverage antennas. Igor, UA2FZ, kept up his trophy winning streak with a cool 845K.

For purposes of this contest and for the last time this year, Low Power and High Power scores are listed together by tradition. A further breakdown can be found on CQ160.com using our data-sorting tool.

The multi-op team at 4X2M edged out last year's winner, HG8DX, by less than 100K after log checking. Once again, the advantage of continental scoring is evident as points are higher for inter-continental QSOs.

Ash, KF5EYY, operated 3V8SF to the top low-power score in the world. Ash reported great conditions to the U.S. at sunrise, allowing him to get some juicy multipliers.

And what can we say about the QRP gang? It takes a certain amount of intestinal fortitude to stick it out on Topband with 5 watts or less. All of the following stations have broken 100K

QRP, congratulations to all: DJ7WW, OL4W, E77Y, YL2QN, OL9R, EE3X, and SEØX.

There is also quite a bit of activity from Zone 16 in this contest. In Russia, you cannot quite make the biggest scores due to the point structure. However, some great scores were made by R8WF, UA9BA, UX1UA, and R7KR. In LP, EU1AA and R7KR had a good battle as well. In Zone 15, HG5D and 9A2AJ were first and second, respectively. Zone 14 was taken by TM6M by quite a margin, with the top three filling up as follows:

TM6M.....1,065,875
GM5X.....809,970
HBØ/DL5SE.....599,250

SSB Results

There were 1,223 logs submitted for SSB, down slightly from 2018; with Single-Op Low Power and Single-Op Assisted almost exactly equal as the most popular. The conditions were very favorable this year with some great openings. Check out what the Single-Op World winner Peter, K3ZM, had to say about the propagation:

"Conditions were not bad here. No troublesome QRN, and signal levels were normal. Except that there was an absolutely fantastic period on Friday evening, about sunrise in the Middle East, when signal levels rose to an impossibly high level. I got called by 4LØG, who said I was 'booming.' A moment later, I got called by 9K2HN, who was S9 + 15 dB on the meter! I have never heard the Middle East that loud on 20 meters."

On the other hand, UZ5DX operating at CU4DX for second place in Single-op in the world, reported bad QRN levels on the first night.

Single Op

Since K3ZM was able to win the world trophy, that opened up the U.S. trophy to long time Topbander Steve, W3BGN. Congratulations to Bravo Golf November! The top five were:

K3ZM 453,130
W3BGN 296,088
WF2W 249,369
W1XX. 226,080
W1EQO 221,076

In the rest of the world, there was some nice competition all above 300K:

CU4DX. 353,662
ZF9CW. 337,269
ES5RW 333,760
ZF2AM 324,412
EW6W 324,000
I5JVA 318,032

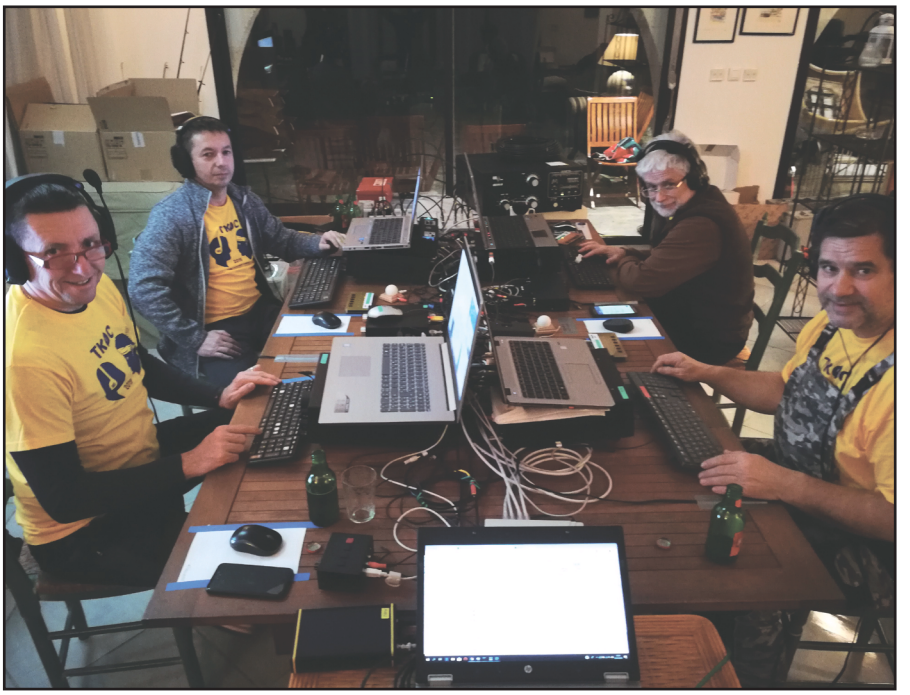
Congratulations to Stan, ZF9CW, who said this about the contest and outlasted his fellow Cayman Islander John ZF2AM: *"8 hours into the contest, I had a total of 250 contacts, was bored and couldn't stay awake. Saturday, I put my top-loading wires up higher, put down another dozen radials and came back to announce to my wife that I was loaded for bear and not a quitter, promising to at least stay on the radio until the sun was up in Europe."*

For Canada, where the 5-point VE to U.S. advantage is evident, the top 3 rounded out:

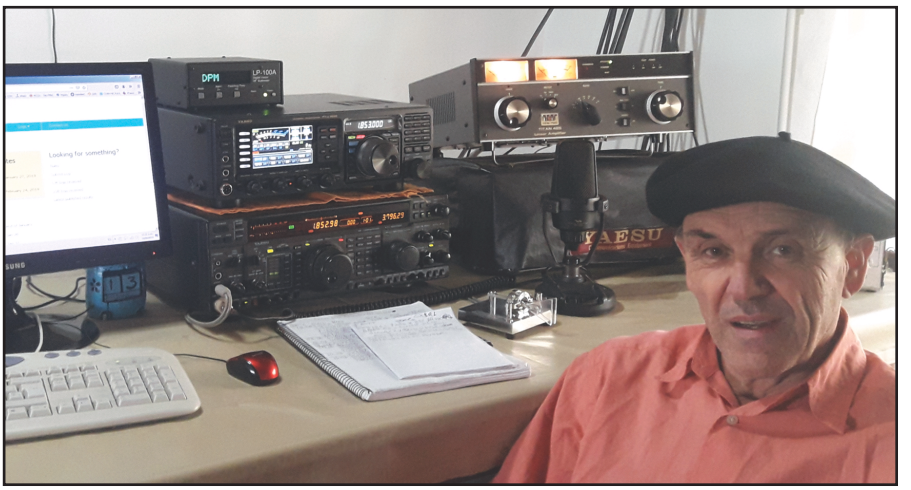
VE3DZ 304,113
VE3PN 231,312
VE3CKO 210,160

In the U.S., Zone 3, it was really rough going. Top scores were only at 55k:

NJ6P 55,650
N7AU. 32,968



TKØC took first place in CW Multi-Op in the world. The team was comprised of S57AL, S53F, S53RM, and S57C. (Photo by S55OO)



Here is Mario, LU8DPM, whose favorite band is 160 meters. But it's really hard to work stations from Argentina in February (South American summer). Thanks to Mario for his hard work.

2019 CQWW 160M CONTEST TOP SCORES

CW

USA

K3ZM	784,080
K1LZ	717,960
K1BX	605,400
K1DG	588,276
AA1K	585,242
K1KI	575,592
K1LT	558,376
NA8V	503,274
K5ZD	471,856
W4CB	462,961

VE

VE3JM	731,449
VE3AT	701,415
VE3PN	425,505
*VE3VN	269,110
VE6BBP	248,883
*VE3VSM	229,401
*VE3YT	228,960
VE3KZ	198,660
VE3KP	198,208
*VE3XL	141,636

Zone 3

AC6DD	178,925
*N7IR	114,381
K7CW	108,388
W7YAQ	101,602
W6AYC	74,514
N6BT	72,829
*W6JTI	66,560
K7RL	65,076
K4XU	61,841
VA7ST	59,201

Zone 4

VE3JM	731,449
VE3AT	701,415
K1LT	558,376
NA8V	503,274
VE3PN	425,505
NR5M	298,900
KØEJ	269,568
*VE3VN	269,110
K2CUB	251,190
K9ZO	251,160

QRP

**DJ7WW	203,970
**OL4W	186,480
**E77Y	176,680
**YL2QN	162,848
**OL9R	153,552
**EE3X	112,860
**SEØX	109,933
**S53AR	95,350
**N9SE	92,105
**SP3IOE	75,856

DX

CN2CO	2,477,250
D4C	1,663,360
ED8W	1,230,576
NP2J	1,076,619
TM6M	1,065,875
EA8/EA4BQ	949,725
GM5X	809,970
KH7B	707,292
UN9L	686,428
*3V8SF	664,830

Zone 14

TM6M	1,065,875
GM5X	809,970
HBØ/DL5SE	599,250
F5VMN	383,565
OU2I	367,146
GM4Z	338,490
G4DRS	242,364
G4L	219,868
LB6GG	204,060
**DJ7WW	203,970

Zone 15

HG5D	601,588
9A2AJ	477,900
*E74O	464,016
*4O4A	462,267
LY4T	435,942
OM7RU	409,875
*HGØR	383,640
SP2LNW	372,172
*IK2CLB	321,300
OH2YL	288,402

Zone 16

UX1UA	478,392
R8WF	403,310
*EU1AA	184,758
UT3QU	175,071
UX1HW	171,456
*R7KR	164,920
R7NW	163,374
UT7NY	162,064
R3ZZ	160,003
*RT3K	157,876

Russia

R8WF	403,310
UA9BA	288,180
UA9QM	223,183
*R7KR	164,920
*RAØLQ/MM	164,515
R7NW	163,374
R3ZZ	160,003
*RT3K	157,876
*UA5F	152,043
RM1T	133,212

LOW POWER World

*3V8SF	664,830
*E74O	464,016
*4O4A	462,267
*HGØR	383,640
*IK2CLB	321,300
*OK7Y	277,104
*KD4D	272,332
*LY4L	270,300
*VE3VN	269,110
*OK2BFN	268,328

LOW POWER W/VE

*KD4D	272,332
*VE3VN	269,110
*VE3VSM	229,401
*VE3YT	228,960
*WB8JUI	177,122
*W9XT	160,134
*WØUO	154,791
*WB8WKQ	146,890
*VE3XL	141,636
*K1EP	137,060

QRP W/VE

**N9SE	92,105
**W8GP	62,037
**K4TO	46,980
**WC4X	35,776
**K8ZT	33,814
**N4AX	29,376
**W9CC	19,845
**NØUR	19,737
**NX9G	17,940
**VE3DQN	15,624

MULTI-OPERATOR WORLD

TKØC	1,840,484
PJ2T	1,701,310
C6AGU	1,458,858
4X2M	1,250,200
OK7K	1,189,800
UA7K	1,164,114
HG8DX	1,157,698
HB9CA	1,143,480
VO2AC	1,141,504
E7DX	1,122,203

MULTI-OPERATOR W/VE

VO2AC	1,141,504
N5DX	888,420
W2GD	842,156
KØDI	730,849
KM3T	693,852
NR4M	674,625
K3LR	670,824
N1LN	631,800
VE2OJ	533,715
W5MX	478,077

ASSISTED WORLD

+CT9ABO	2,452,908
+P33W	1,551,716
+P4ØAA	1,502,439
+OM7M	1,210,560
+LX7I	1,133,713
+VE3EJ	1,128,660
+DL6FBL	1,030,710
+SN7Q	1,010,850
+VE3NE	983,196
+VA2WA	964,348

ASSISTED W/VE

+VE3EJ	1,128,660
+VE3NE	983,196
+VA2WA	964,348
+VE3RZ	689,946
+W1UE	508,762
+WB9Z	504,836
+N2ZX	502,448
+VE3CX	501,120
+N2NT	483,210
+K3WW	479,402

SSB

USA

K3ZM	453,130
W3BGN	296,088
WF2W	249,369
W1XX	226,080
W1EQO	221,076
AF1T	178,728
WD5COV	177,030
KØTT	167,360
K3ZO	161,508
W3TS	155,763

VE

VE3DZ	304,113
VE3PN	231,312
VE3CKO	210,160
*VE3MGY	171,006
VE6BBP	117,120
VE3KZ	81,339
*VA3AC	78,120
VE3KP	42,930
VE2FXL	40,911
*VE4TV	34,528

Zone 3

NJ6P	55,650
N7AU	32,968
K7CW	29,590
N6BT	23,430
VE7NY	18,438
N6AA	16,023
N7RK	15,700
K7IU	15,080
N7GP	14,504
W7MEM	13,392

Zone 4

VE3DZ	304,113
VE3PN	231,312
VE3CKO	210,160
WD5COV	177,030
*VE3MGY	171,006
KØTT	167,360
NA8V	125,375
VE6BBP	117,120
*W8CO	112,962
WØNO	105,151

QRP

**E77Y	45,920
**DK2LO	28,584
**SQ2NNN	20,636
**UR5VAA	20,243
**UT5EOX	17,763
**UR5FEO	17,344
**R2FI	16,016
**W8GP	13,904
**SP1FPG	12,096
**DD9WG	11,252

DX

CU4DX	353,662
ZF9CW	337,269
ES5RW	333,760
ZF2AM	324,412
EW6W	324,000
I5JVA	318,032
DJ7WW	272,571
RW1F	258,712
*E74O	173,250
SQ1OD	157,450

Zone 14

CU4DX	353,662
DJ7WW	272,571
*TM6M	123,964
G5Q	100,260
CT2ITR	73,101
*DLØNG	55,169
DL4RCE	49,960
*G2X	48,624
*PE2JMR	47,424
MI1ERL	46,395

Zone 15

ES5RW	333,760
I5JVA	318,032
*E74O	173,250
SQ1OD	157,450
LY4T	139,590
*LY4L	121,662
LY2BVB	104,569
OM7RU	92,664
IK7YTT	85,488
*OM5WW	85,095

Zone 16

EW6W	324,000
RW1F	258,712
UX1UA	151,776
EW8R	83,181
*UT1AN	81,196
RT9S	53,162
*UR5TM	49,751
RZ3MM	47,150
RA1TDP	43,880
*RK6AQP	39,368

Russia

RW1F	258,712
RT9S	53,162
RZ3MM	47,150
RA1TDP	43,880
*RK6AQP	39,368
RC5Z	36,176
*RW7M	35,820
UA9BA	34,560
*UA1CUR	27,900
*RA9AU	25,218

LOW POWER WORLD

*E74O	173,250
*VE3MGY	171,006
*TM6M	123,964
*LY4L	121,662
*W8CO	112,962
*OM5WW	85,095
*UT1AN	81,196
*VA3AC	78,120
*SQ4JEN	74,284
*W4ZAO	70,211

LOW POWER W/VE

*VE3MGY	171,006
*W8CO	112,962
*VA3AC	78,120
*W4ZAO	70,211
*W1LJD	59,768
*N8XTH	51,720
*AJ3T	46,805
*KS3D	44,022
*KP4KE/W4	42,752
*WK9U	41,085

QRP W/VE

**W8GP	13,904
**W7BAK	4,186
**K8ZT	3,750
**VE6EX	3,026
**N8OQ	2,850
**K3TW	1,224
**W1TW	1,080
**W9QL	380
**AC6YY	216
**KK7VL	105

MULTI-OPERATOR WORLD

PJ4G	599,676
N2CW	515,250
UA7K	496,254
HB9CA	466,146
HG8DX	465,888
SN8B	416,970
K1LZ	415,035
OK4C	377,118
W1NA	365,598
N2CEI	338,661

MULTI-OPERATOR W/VE

N2CW	515,250
K1LZ	415,035
W1NA	365,598
N2CEI	338,661
ND8DX	281,688
AB8M	123,824
WG3J	102,708
NE3F	80,010
KØOO	68,072
W9VW	66,396

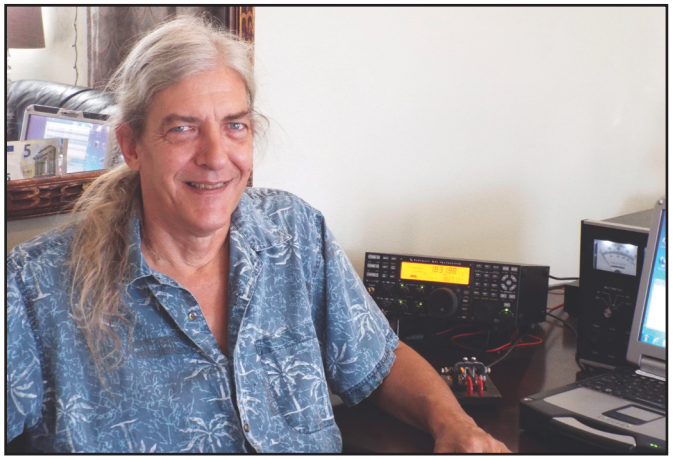
ASSISTED WORLD

+LY4A	620,400
+OK7K	611,252
+KV4FZ	362,637
+S57DX	350,973
+HB9ØCXZ	319,226
+S53O	309,680
+MIØSLE	278,124
+OK1JDX	265,434
+DK6WL	264,060
+UR5AS	258,488

ASSISTED W/VE

+W5MX	230,018
+K2PM	206,890
+K3WW	193,533
+W3LL	193,452
+N4RV	183,870
+VE3CX	172,590
+WX4G	143,726
+W5PR	141,017
+KC4NX	129,560
+W2DAN	124,254

**Low Power*
+Assisted



Dan, K8RF, steered contest station NP2J to a fourth-place finish in Single-Op CW in the world with a cool 1.1 million points.

In Zone 4, where being in the center of activity is a big help, we had some nice competition with David, WD5COV, continuing his streak as the top scorer:

WD5COV 177,030
KØTT 167,360
NA8V.....125,375
WØNO 105,151
WN8HCV 103,464
WD5R 101,016

If you think QRP is bad on CW, try it on 160 SSB. Good Luck! These guys have some great stamina and patience:

E77Y 45,920
DK2LO 28,584
SQ2NNN 20,636
UR5VAA.....20,243
UT5EOX.....17,763
R2FI 16,016
UR5FEO 17,344
W8GP 13,904

2019 CQWW 160M CONTEST CLUB SCORES

(Minimum of 3 three entries required for listing)

SCORE	#ENTRIES	CLUB
28,359,407	195	BAVARIAN CONTEST CLUB
13,928,109	150	POTOMAC VALLEY RADIO CLUB
12,050,036	105	FRANKFORD RADIO CLUB
9,782,217	96	YANKEE CLIPPER CONTEST CLUB
9,069,507	53	CONTEST CLUB ONTARIO
8,236,620	78	UKRAINIAN CONTEST CLUB
7,604,145	59	RHEIN RUHR DX ASSOCIATION
6,301,799	11	BELOKRANJEC CONTEST CLUB
5,681,483	27	ITALIAN CONTEST CLUB
5,366,485	35	RUSSIAN CONTEST CLUB
5,113,114	88	SOCIETY OF MIDWEST CONTESTERS
4,984,868	38	KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB
4,715,934	23	MAD RIVER RADIO CLUB
4,204,706	13	CROATIAN CONTEST CLUB
4,198,182	12	SLOVENIA CONTEST CLUB
4,174,973	34	SP DX CLUB
3,668,066	23	CONTEST CLUB FINLAND
3,126,026	27	FLORIDA CONTEST GROUP
2,765,943	45	ARIZONA OUTLAWS CONTEST CLUB
2,479,649	14	EA CONTEST CLUB
2,361,939	13	LATVIAN CONTEST CLUB
2,346,860	10	HUNGARIAN DX CLUB
2,220,330	41	MINNESOTA WIRELESS ASSN
2,192,930	15	BELARUS CONTEST CLUB
2,127,734	9	URAL CONTEST GROUP
2,028,077	8	UA2 CONTEST CLUB
1,900,212	13	VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB
1,829,627	23	TENNESSEE CONTEST GROUP
1,739,950	3	LZ CONTEST TEAM
1,739,056	8	MARITIME CONTEST CLUB
1,633,570	10	CONTEST CLUB SERBIA
1,586,461	12	DANISH DX GROUP
1,513,248	15	HUDSON VALLEY CONTESTERS AND DXERS
1,378,088	7	GIPANIS CONTEST GROUP
1,313,424	17	NORTH COAST CONTESTERS
1,273,821	12	KENTUCKY CONTEST GROUP
1,164,681	6	CONTEST GROUP DU QUEBEC
1,154,996	7	ALRS ST PETERSBURG
1,092,539	11	CHILTERN DX CLUB
1,084,161	3	FLORIDA WEAK SIGNAL GROUP
1,025,125	30	NORTHERN CALIFORNIA CONTEST CLUB
955,812	11	CTRI CONTEST GROUP
922,041	3	BOSNIA AND HERZEGOVINA CONTEST CLUB
835,673	28	DEUTSCH AMATEUR RADIO CLUB
832,134	12	CENTRAL TEXAS DX AND CONTEST CLUB
810,388	14	GRAND MESA CONTESTERS OF COLORADO
741,068	9	VERON
740,993	14	DFW CONTEST GROUP
689,649	3	S59ACP
668,032	11	ALABAMA CONTEST GROUP
661,753	5	LITHUANIAN CONTEST GROUP
650,875	6	OK1KQJ CONTEST CLUB
610,063	4	NRRL
607,980	5	TEXAS DX SOCIETY
563,985	4	SOUTH URAL CONTEST CLUB
537,466	15	SOUTH EAST CONTEST CLUB
525,296	6	WORLD WIDE YOUNG CONTESTERS
519,707	9	NIAGARA FRONTIER RADIOSPORT
517,242	5	RIO DX GROUP
500,830	8	ORCA DX AND CONTEST CLUB
494,660	9	RUSSIAN CW CLUB
488,160	3	SAUDI CONTEST GROUP
486,295	6	CSM TIMISOARA
467,940	9	KANSAS CITY CONTEST CLUB
433,610	12	WILLAMETTE VALLEY DX CLUB
408,361	12	WESTERN WASHINGTON DX CLUB
396,486	20	SOUTHERN CALIFORNIA CONTEST CLUB
390,753	5	GEORGIA CONTEST GROUP
371,396	10	MOTHER LODE DX & CONTEST CLUB
361,276	6	BLACK SEA CONTEST CLUB
357,963	7	BIG SKY CONTESTERS
352,111	7	THRACIAN ROSE CLUB
350,287	14	CAROLINA DX ASSOCIATION
348,624	3	SP5PPK
262,959	5	DEEP DIXIE CONTEST CLUB
254,142	5	NORTH TEXAS CONTEST CLUB
243,869	7	BRISTOL (TN/VA) ARC
236,731	4	BAY AREA DXERS
220,323	4	SPANDAU DXERS
215,605	3	NORTH CAROLINA DX AND CONTEST CLUB
193,385	3	VLADIMIR RADIO CLUB
192,099	9	YO DX CLUB
191,119	4	UR-QRP-CLUB
185,786	3	GERMAN DX FOUNDATION
173,031	5	PORTAGE COUNTY AMATEUR RADIO SERVICE
167,647	4	LA-DX-GROUP
142,459	3	CSM CRAIOVA
141,025	6	SHENANDOAH VALLEY WIRELESS ASSOCIATION
134,482	3	SARATOVSKAYA OBLAST RADIO CLUB
120,729	8	SWAMP FOX CONTEST GROUP
116,780	4	CENTRAL SIBERIA DX CLUB
116,382	3	LKK LVIV SHORTWAVE CLUB
83,999	5	HILLTOP TRANSMITTING ASSOCIATION
73,092	5	RU-QRP
72,822	3	DONBASS CONTEST CLUB
67,296	4	ROCHESTER DX ASSOCIATION
57,896	5	KIROVOGRAD REGION RADIO CLUB
49,216	3	ARKTIKA
48,367	6	SPOKANE DX ASSOCIATION
47,350	4	IVANOVO DX CLUB
46,591	3	METRO DX CLUB
44,030	4	BERGEN AMATEUR RADIOASSOCIATION
42,655	5	ARAUCARIA DX GROUP
16,652	3	NEW PROVIDENCE ARC
14,796	3	WEST PARK RADIOPS
10,422	3	SERPUKHOV RADIO CLUB
9,835	3	KHARKIV REGIONAL AMATEUR RADIO SOCIETY
9,108	3	VLADIMIR CONTEST CLUB
7,606	3	CS PANDURII TARGU - RADIOAMATOR
1,092	4	YB LAND DX CLUB
170	9	ORARI LOKAL KEDIRI

Why did K1ZM work only 50 stations from JW? Check out the beautiful aurora in the night sky. Great for tourists, not so great for radio.

In Europe's Zone 14, DJ7WW reported good conditions only the first night. With only four scores over 100K, one of them was made by TM6M in Low Power.

CU4DX 353,662
DJ7WW 272,571
TM6M 123,964
G5Q 100,260

There was a nice competition in Zone 15 with Rein, ES5RW, operating from Tonno, ES5TV's, superstation.

"Decent first night propagation enabled me to log the best number of states in this contest so far, the second night was tough."

ES5RW 333,760
I5JVA 318,032

From Russia and Zone 16 we have all over 100K:

EW6W 324,000
RW1F 258,712
UX1UA.....151,776

With UA2FZ at 169,408 in Single Op Assisted.

The most popular category - Single-Op Assisted with 403 entries - had a nice assortment of stations over 300K and two stations from the US. over 200K.

Rolandas, LY4A, reported:

"Thanks for all callers. We had great Friday night propagation."

LY4A.....620,400
OK7K.....611,252
S57DX 350,973
KV4FZ 362,637
HB9ØCXZ.....319,226
S53O 309,680
W5MX.....230,018
K2PM.....206,890

Single Op LP World scores over 100K were:

E74O 173,250
VE3MGY.....171,006
TM6M 123,964
LY4L 121,662
W8CO.....112,962

Special mention to Brian, VE3MGY, for his repeat win in Canada Low Power. By far the most intense competition was in Multi-op. The boys from N2CW reported the following:

"Operating from our awesome SJDXA club station on Barnegat Bay in Southern New Jersey that we share with W2GD! Great overall conditions."

The top stations all over 300K were:

PJ4G.....599,676
N2CW 515,250
UA7K 496,254
HB9CA.....466,146
HG8DX 465,888
SN8B 416,970
K1LZ 415,035
OK4C 377,118
W1NA 365,598
N2CEI 338,661
LZ5R.....335,496
OL1R 328,080
PJ4DX 307,242

A Note About Sportsmanship

There were few complaints this time about disruption to FT8 operation. There were numerous complaints about power abuse. It is nearly impossible to monitor power levels; this is supposed to be on the honor system.

Also, there were some complaints about frequency encroachment. The appropriate stations were contacted and made aware of the situation.

Remember, if you abuse the rules, you are not only cheating others but cheating yourself. This year, as in the past, we did reclassify some stations based on RBN analysis.

Since RBN is not definitive, we felt disqualification was not warranted. But in the future, we may not be as lenient. As technology improves, it will be easier to identify outliers.

In closing, I want to offer a special thanks to those whose invaluable contributions make the contest a success, including N6TR (log checking), K1DG (trophies), and K5ZD (webmaster).

Certificates for everyone are available for printing on our website at CQ160.com. If anyone would like a Log Checking Report, send an email to me at <director@CQ160.com>. Please specify which *mode* you are asking for and the *callsign used*. Trophies will be mailed shortly. Thanks to all for participating and see you in 2020. Remember, all CQ contests have a 5-day deadline for submitting logs. Check out the rules on CQ160.com for the latest information. There will be some added categories in 2020, stay tuned for details. *– 73, Andy, N2NT*

Director, CQ160 Contest

(Scores on page 102)