

Results of the 2017 CQ World Wide 160 Meter Contest

Plus, a New and Improved Website at CQ160.com!

BY ANDY BLANK,* N2NT

Aside from his duties as CQWW DX Contest Director until 2015, Randy Thompson, K5ZD, has also been the webmaster for all the CQWW major contests. Last year, he spearheaded the revamp of CQ160.com, which included a new score database that features results going back to 1960.

We asked for volunteers to type in score results, available only from old magazines.

Thanks to efforts of the many volunteers, the database is now complete and the following volunteers deserve special credit and accolades: MMØLID, KC1CWF, NN3W, W4AU, SV1DPI, OR2F, W0MU, K9GX, K1XX, K8FC, CT1EKD, and K9VV.

Please visit the new site and check out your past scores or compare them with other stations. You can also print a certificate for your operation, which will show your place both in your category and in your QTH.

2017 CW Results

The "Millionaires Club" was a bit of a challenge this year. Conditions on CW were pretty good, but SSB was more of a struggle. Congratulations to perennial winners Jeff, VY2ZM, and the crew at S51V for taking the combined CW/SSB trophies. That is true Top Band dedication.

Here are the Millionaires for 2017, with scores of more than one million points: VY2ZM, ZF9CW, CS2C, C6AGU, CN2AA, PJ2T, S51V, HG8DX, UA7K, EIØR, OL7M, TM6M, PI4DX,

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Number 2 in Europe belongs to this fine station at GU4YOX, with Bob — the man himself — at the helm.



Ash, 3V8SS, operating 3V8CB on CW. Where is all the equipment?



Henning, OZ1BII/OU2I, operating the first night from the shack of OZ5E/OZ1ADL.

HB9CA, OL3Z, P4ØAA, P33W, HK1R, LX7I, G5W, 9A5CW, OM3GI, UW2M, OM7M, and UA2FZ. All the Millionaires were on CW, there were none on SSB. Congratulations to all.

There were 2,661 CW logs submitted,

and the trend continues with single-op/low-power (SOLP) and SO-assisted the most popular. This was a jump of over 500 logs from 2016.

Meanwhile on SSB, 1,224 logs were submitted, with SOLP — by far — the

most popular category. This was a mirror image of 2016. We have included many Top Boxes in the results this year. Any not shown will be available on the web in extended results.

Many thanks to perennial club win-

TROPHY WINNERS AND DONORS

World Single Operator Combined SSB/CW

Jeffrey T. Briggs, VY2ZM
Donor: Alex Tkatch, KU1CW

World Multioperator Combined SSB/CW

Silvo Knuplez, S51V
(S51V, S57DX, S57K, S57UN, S59A, S57DX, S58MU ops)
Donor: Top Band DX Club

CW

SINGLE OPERATOR World

Jeffrey T. Briggs, VY2ZM
Donor: Bill Tippet, W4ZV-DJ8WL Memorial

U.S.A.

Peter H. Briggs, K3ZM
Donor: Howard Klein, K2HK

Canada

Ron Vander Kraats, CG3AT
Donor: VE2XAA Memorial by Thor Stefansson, TF4M

U.S.A. - Zone 3

Glenn Rattmann, K6NA
Donor: Bruce Butler - W6OSP Memorial

U.S.A. - Zone 4

James F. S. Eppright, K5RX
Donor: Steve Schmidt, K4WA

U.S.A. - Zone 5

Kevin Stockton, N5DX
Donor: Paul H. Newberry, Jr., N4PN

Africa

Achraf Chaabane
Donor: James "Skip" Riba, WS9V

Asia

Yasar Gocet, TA3D
Donor: Missouri DX/Contest Club

Europe

Jiri Pesta (OK1RF), CS2C
Donor: Emir-Braco Memic, OE1EMS

South America

Bolmar Aguilar, HK1MW
Donor: John Rodgers, WE3C

Oceania

Kevin Smith, VK6LW
Donor: Robert L. Chortek, AA6VB

European Russia

Igor Avdeev, UA2FZ
Donor: UA2 Contest Club

Asiatic Russia

Sergey Moskaev, R8TT
Donor: UA2 Contest Club

Japan

Masaki Okano, JH4UYB
Donor: Alabama Contest Group

North America

Stan Stockton, ZF9CW
Donor: CQ Magazine - N4IN Memorial

Southern Hemisphere

Alexey Ogorodov, HC2AO
Donor: Robert Kile, W7RH

World Assisted

Mathias Kolpe (DL4MM), P4ØAA
Donor: Andy Chesnokov, UA3AB

Asia Assisted

Valery Zhilyaev, UN7LZ
Donor: Joe Iwakura, JA1LZR

Europe Assisted

Ron Schiltmans (DL3BPC), LX7I
Donor: Carsten-Tomas Dauer, DM9EE

U.S.A. Assisted

Dennis Egan, W1UE
Donor: Akito Nagi, JA5DQH

U.S.A. Assisted - Zone 3

Lee Finkel, KY7M
Donor: Larry Pace, N7DD

U.S.A. Assisted - Zone 4

William D. Johnson, KVØQ
Donor: Pete Michaelis, N8TR

U.S.A. Assisted - Zone 5

Jim Roberts (VE7ZO) op: NQ4I
Donor: Potomac Valley Radio Club

World Low Power

George Wallner (AA7JV), C6AGU
Donor: Ed Parish, K1EP

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

Yuri Kolyrin, DF1MM
Donor: Petr Ourednik, OK1RP - DL1RK Memorial

Canada Low Power

Yuri Onipko, VE3DZ
Donor: Contest Club Ontario

World QRP

Milan Stejskal, OL4W
Donor: Wayne Mills, N7NG

U.S.A. QRP

Paul Stroud, AA4XX
Donor: Bob Raymond, WA1Z

U.S.A. QRP - Zone 4

Scott Mcleman, W5/MMØLID
Donor: Dale Putnam WC7S

Europe QRP

Bojan Sever, S57M
Donor: Gary Breed, K9AY

MULTI-OPERATOR

World

Dimitri E. Guskov (UA2F & RL3A Team), CN2AA
(RA3CO, RL3FT, RX3APM, UA3ASZ, UA4Z ops)
Donor: Hugh Valentine, N4RJ

U.S.A.

John Crovelli, W2GD
(K2SG, K2TW, K14KWR, KU2C, N2HM, N2NC, N2OO, W1GD, W2CG, W2GD, W2NO, W2OB, W2RQ ops)
Donor: WØCD Memorial - K8GG W8UVZ

Europe

Silvo Knuplez, S51V
(HA8DJ, S51V, S57DX, S57K, S57UN, S59A ops)
Donor: Bob Evans, K5WA

ZONE 16

Andy Kazantsev, UA7K
(RA7KF, RW7K, UA7K, UB7K, UU5MS ops)
Donor: Vladimir Lesnichy, R7LV

ASIA

Serge Stikhin, RY9C
(RU9CK, RW9CF, UA8DX ops)
Donor: Nodir Tursoon-Zadeh, EY8MM

U.S.A. - Zone 3

Al Van Buren, K7CA
(K7CA, N7JW, W7RH, WA7LNU ops)
Donor: Robert L Chortek, AA6VB

SSB

SINGLE OPERATOR World

Jeffrey T. Briggs, VY2ZM
Donor: Nodir Tursoon-Zadeh, EY8MM

U.S.A.

Peter H. Briggs, K3ZM
Donor: W4PZV/W4SVO Memorial by Rick Dougherty, NQ4I

Canada

Brian Campbell, VE3MGY
Donor: Tom Haavisto, VE3CX

U.S.A. - Zone 3

Robert C. Lee, N7AU
Donor: Nate Moreschi, N4YDU

U.S.A. - Zone 4

Bryan M Bydal, W5MX
Donor: Alabama Contest Group

U.S.A. - Zone 5

John Lindholm, W1XX
Donor: Jim Monahan, K1PX

Africa

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

Asia

Andrey Ponomaryov, 4Z5LY
Donor: Ed Campbell, NX7TT

Europe

Rein Kolk, ES5RW
Donor: James "Skip" Riba, WS9V

European Russia

Igor Avdeev, UA2FZ
Donor: UA2 Contest Club

Asiatic Russia

Vladimir (Willy) Umanets, UA9BA
Donor: UA2 Contest Club

North America

John Barcroft (K6AM), ZF2AM
Donor: CQ Magazine - K2EEK Memorial

South America

Steve Telenius-Lowe, PJ4DX
Donor: John Rodgers, WE3C

ners Bavarian Contest Club and Potomac Valley Radio Club, which combined for over 37 million points. Their support is much appreciated, along with all the other radio clubs. The CQWW 160 Contest encourages club

Oceania

Massimo Zenobi (KH6ZM), KH6CC
Donor: Steve "Sid" Caesar - NH7C

Southern Hemisphere

Daniel Figueredo, YV6YV
Donor: John Rogers, WE3C

World Assisted

Petr Clupny, OK7K
Donor: Ray Sokola, K9RS

Asia Assisted

Igor Booklan, (RA3AUU) P33W
Donor: Robert Kile, W7RH

Europe Assisted

Maciej Wieczorek, SN2M
Donor: Bob McGwier, N4HY

U.S.A. Assisted

Vasily Voly, K3ZU
Donor: Mississippi Valley DX & Contest Club

U.S.A. Assisted - Zone 4

Paul Bittner (NM7X OP), W0AIH
Donor: Pete Michaelis, N8TR

World Low Power

Dave Jorgensen, WD5COV
Donor: Howard Klein, K2HK

U.S.A. Low Power

George Vercic, W8CO
Donor: Tim Duffy, K3LR

Europe Low Power

Husein Gasic, E74R
Donor: Contest Club Ontario

Canada Low Power

Brian Campbell, VE3MGY
Donor: Rudy Bakalov, N2WQ

World QRP

Arman Destanovic, E77CV
Donor: John Rodgers, WE3C

MULTI-OPERATOR

World

Adi Voh, 6Y1M
 (RN5M, S55M ops)
Donor: Southeastern DX Club

U.S.A.

Krassimir Petkov, K1LZ
 (K1LZ, K3JO ops)
Donor: Jerry Rosalius, WB9Z

Europe

Silvo Knoplez, S51V
 (S51V, S57DX, S57K, S57UN, S58MU, S59A ops)
Donor: South Jersey DX Association, N2CW

Zone 3

Lee Finkel, NA7TB
 (KC7V, KY7M ops)
Donor: Paulo, PV8DX

Asia

Activity Team, TC7C
 (TA7K, TA7MHZ, TA7N, TA7OM, TA7Q, TA7SO ops)
Donor: Nodir Tursoon-Zadeh, EY8MM

competition in order to promote activity. The rules for operating within club circles are relaxed, to allow for DX-peditions and guest operations. We greatly appreciate those who travel to activate rarer QTHs on the top band.

Special thanks to all the trophy donors who, year after year, donate to keep the winners happy. If you are one of the lucky winners, please take the time to thank the donors personally. It goes a long way.

A Few Words About Competition and Sportsmanship

There were many complaints from stations, especially in Europe, about key clicks and dirty signals. Many accusations were made, including intentional QRM, excessive power, self-spotting, and out-of-band operation.

There were many warnings issued, and in some cases disqualification or reclassification. It is up to the community to keep the contest field honest, as our resources are limited. We appreciate your help, and continue to strive for an accurate and honest result for all competitors.

All in the Family

If your surname is Briggs or Stockton, chances are you did pretty well in the contest. Jeff Briggs, VY2ZM, edged out Stan Stockton, K5GO, operating from his new beachfront QTH in the Cayman Islands as ZF9CW, to take the SOHP World top spot. A great job by Stan as his antenna is nothing special. It's just a short vertical but it proves that location and operating do the trick.

The other Briggs, brother Peter, K3ZM, took top honors in the U.S., edging out Stan's son Kevin, N5DX. Kevin has been operating remotely using the fine QTH of N2QV in upstate New York, which has been producing great scores.

The most amazing score from the CW contest comes from the combined crew of the UA2F and RL3A teams at CN2AA, which made nearly 1,000 more QSOs than runner-up PJ2T in the multi op category. CN2AA now holds the World Record score in the contest, beating the 2007 mark held by CN2A by 400,000. Congratulations, guys! In Europe, the crews at S51V and HG8DX slugged it out in a very close race, with S51V on top by only 50,000.

Once again in the U.S., the gang at West Creek led by W2GD topped the multi ops, with KØDI in second place.

In the world of low power, another great score was made by AA7JV, operating at C6AGU. George was able to surpass a million points! It looks like the Caribbean was a good place to be for this one. Congratulations to Yuri, VE3DZ, who managed to make number two in the world from Canada, with E74R and DF1MM close behind from Europe.

Mark, KD4D, edged out Greg, NA8V, in the U.S. low power.

What a race in Single-Op Assisted between P4ØAA, operated by Mathias, DL4MM; and P33W, operated by Harry, RA3AUU, and Jorge, HK1R. After log checking, the competitors were separated by only 100,000 points. SO Assisted is now the most popular category in the contest, with 10 stations making over 1 million points.

In Zone 4 U.S., where winning the contest overall is next to impossible, there was a very tight battle between



Here is Kostas, SV1DPI, operating from the fine club station at SZ1A, the beacon of Greece!

2017 CQWW 160M CONTEST TOP SCORES

CW	EA1DAV.....484,704	TM6M.....1,128,567	*WD5COV.....162,450	*YT8A.....152,090
	*DF1MM.....460,460	PI4DX.....1,076,117	K5RX.....153,009	*VE3MGY.....117,000
USA		HB9CA.....1,061,520	WS9V.....134,217	*W8CO.....98,464
K3ZM.....862,916	Zone 15		*VE3MGY.....117,000	*SP5CJY.....85,415
N5DX.....641,802	OK7K.....803,565	MULTI-OPERATOR W/VE	WN8HCV.....104,176	*3V8CB.....81,770
K1LZ.....622,323	YL2SW.....449,934	W2GD.....879,174	VE3KZ.....98,840	*OK1DPU.....75,060
AA1K.....592,620	*E74R.....448,092	K0DI.....661,248	*W8CO.....98,464	*EK6SI.....73,720
K5RX.....533,124	SP3HLM.....446,165	NR4M.....633,000	K0IDX.....78,585	*SQ9ZAX.....71,016
W9RE.....476,856	*HA4XH.....435,003	K7CA.....602,410		
WD5COV.....462,330	OM7RU.....422,484	VE2QJ.....519,936	QRP	LOW POWER W/VE TOP SIX
K1LT.....444,730	HA8BE.....397,012	N0NI.....508,344	**E77CV.....45,120	*WD5COV.....162,450
WD5R.....399,816	*9A3JH.....374,706	W5MX.....501,387	**E74Y.....33,920	*VE3MGY.....117,000
W3BGN.....376,704	LY2NK.....340,275	N4XD.....450,455	**W7XU.....30,914	*W8CO.....98,464
	LY4T.....337,415	AA4V.....438,380	*DK2LO.....24,420	*W4ZAO.....57,188
		K9CT.....436,785	**SQ2BXI.....19,890	*N2HMM.....47,880
VE	Zone 16		**W1JCW.....12,691	*VA3KGS.....47,775
VY2ZM.....1,893,002	R7NW.....532,300	ASSISTED WORLD	**UR5VAA.....8,993	*KB4OLM.....47,190
CG3AT.....658,130	UX1UA.....473,248	*P40AA.....1,609,902	**C08LY.....5,070	*VA3KAI.....40,986
*VE3DZ.....531,700	UA5C.....469,392	*P33W.....1,543,806	**RW3AI.....4,522	*K3ZJ.....40,200
VE9CB.....459,000	UX2X.....458,516	*HK1R.....1,495,250	**RA2FB.....4,437	*K5KJ.....36,928
VE3PN.....350,888	EU4E.....438,600	*LX7I.....1,294,320		
*VE3MGY.....311,448	RG6G.....375,176	*G5W.....1,211,707	DX	QRP W/VE
VE3KP.....226,884	*EU2EU.....353,476	*9A5CW.....1,153,490	ZF2AM.....326,735	**W7XU.....30,914
*VE3VSM.....219,714	*UX1UX.....325,992	*OM3GI.....1,132,038	ES5RW.....237,015	**W1JCW.....12,691
VE6BBP.....219,390	UY5VA.....301,000	*UW2M.....1,065,927	F6GOX.....217,740	**W8WTS.....2,997
*VE2AWW.....182,336	UY0ZG.....291,994	*OM7M.....1,052,674	DJ7WW.....211,040	*W7BAK.....2,967
		*UA2FZ.....1,006,200	HA4XH.....195,000	*NN0Q.....2,581
Zone 3	Russia		OM2VL.....173,019	*KQ4KX.....2,208
K6NA.....218,631	R7NW.....532,300	ASSISTED W/VE	S57C.....162,688	*N80Q.....1,782
NX1P.....164,290	UA5C.....469,392	*VE3EJ.....943,182	*E74R.....157,080	*W1CEK.....1,548
W7YAA.....155,142	RG6G.....375,176	*VA2WA.....867,840	DF2DJ.....155,100	*K3TW.....944
KA6BIM.....140,154	RK3ZZ.....291,252	*W1UE.....754,130	UT6UD.....155,062	*KK7VL.....112
*N7IR.....130,536	UA9BA.....277,750	*VE3JM.....718,836		
VE7JKZ.....96,387	UA3EDQ.....273,520	*VY2TT.....675,792	Zone 14	MULTI-OPERATOR WORLD
*W6JTI.....82,688	UB3A.....248,744	*NQ4I.....515,339	F6GOX.....217,740	6Y1M.....637,330
N5ZO.....79,084	RD4A.....246,180	*AA3B.....505,180	DJ7WW.....211,040	KW7MM/VY2.....543,348
*VE7SL.....70,151	UA6CC.....239,936	*KV0Q.....482,676	DF2DJ.....155,100	C6ANA.....543,345
*AC7A.....62,811	R3ZZ.....227,964	*VE3CX.....475,200	DJ5IW.....113,870	S51V.....519,988
		*K3WW.....468,027	OZ7AM.....93,528	HG8DX.....448,200
Zone 4	LOW POWER World		DK1NO.....80,544	HB9CA.....427,800
CG3AT.....658,130	*C6AGU.....1,103,556	SSB	PA1NHZ.....80,376	RW2F.....418,692
K5RX.....533,124	*VE3DZ.....531,700	USA	EA3QP.....73,346	S56P.....358,228
*VE3DZ.....531,700	*DF1MM.....460,460	K3ZM.....339,618	DL2SAX.....68,698	UA7K.....350,060
W9RE.....476,856	*E74R.....448,092	W1XX.....211,280	DL1EKO.....66,462	K1LZ.....337,792
WD5COV.....462,330	*HA4XH.....435,003	W5MX.....194,396		
K1LT.....444,730	*ON7EH.....432,180	W3BGN.....193,557	Zone 15	MULTI-OPERATOR W/VE
WD5R.....399,816	*3V8CB.....427,180	W5PR.....184,730	ES5RW.....237,015	KW7MM/VY2.....543,348
VE3PN.....350,888	*DK2FG.....401,871	WF2W.....179,958	S57C.....162,688	K1LZ.....337,792
*VE3MGY.....311,448	*9A3JH.....374,706	*WD5COV.....162,450	*E74R.....157,080	N2CW.....287,324
N0TT.....306,100	*EU2EU.....353,476	W3TS.....160,688	*YT8A.....152,090	VE3VV.....247,779
		K5RX.....153,009	LY4T.....135,839	ND8DX.....243,810
QRP	LOW POWER W/VE	AF1T.....147,096	YT0W.....133,574	N2CEI.....233,700
**OL4W.....183,820	*VE3DZ.....531,700		SP9QMP.....127,782	NA7TB.....166,460
**S57M.....163,047	*VE3MGY.....311,448	VE	SN7D.....117,171	N3EB.....141,015
*LY5Q.....143,676	*KD4D.....289,380	VY2ZM.....847,560		VE7NY.....140,901
*S52P.....140,850	*NA8V.....223,212	*VE3MGY.....117,000	Zone 16	NA5NN.....126,920
*F5VBT.....139,919	*VE3VSM.....219,714	VE3KZ.....98,840	UT6UD.....155,062	
*OK1FKD.....133,008	*K8FH.....194,876	VE6BBP.....66,024	EW6W.....140,066	ASSISTED WORLD
*E77CV.....124,600	*K5KU.....190,464	*VA3KGS.....47,775	UY0ZG.....118,767	*OK7K.....652,807
*OK5WF.....114,724	*VE2AWW.....182,336	*VA3KAI.....40,986	UT1XX.....109,550	*SN2M.....499,604
*DL0A.....100,107	*WA5POK.....178,785	VE3KP.....36,450	UX1UA.....105,906	*LY4A.....428,079
*S53Q.....96,044	*CF3FF.....156,744	*VA3WU.....32,232	UT2AA.....90,720	*UA2FZ.....316,344
		*VE3DZ.....32,195	R7NW.....73,287	*VA2WA.....310,899
DX	QRP W/VE	*VE3MW.....30,038	*UR5WJF.....70,224	*S53O.....292,491
CR2X.....1,233,837	**AA4XX.....87,788		RC5Z.....68,160	*P33W.....281,856
CS2C.....908,694	*N4UA.....83,655	Zone 3	UT5TM.....68,160	*OK1W.....272,156
HK1R.....822,752	*W5/MMOLID.....54,693	N7AU.....51,813	RC5Z.....62,836	*DK6WL.....250,410
C6AGU.....772,548	*W2ID.....51,116	KD7UO.....21,105	RIAK.....62,304	*SP9N.....229,827
OZ7YY.....729,864	*W8GP.....45,024	WA2BFW.....19,823	UA5C.....38,924	
OK2W.....652,224	*K4TO.....37,140	*NS7K.....15,190	*RZ3DW.....33,210	ASSISTED W/VE
OH0TA.....593,208	*AA4GA.....35,112	K6ME.....14,526	*R7KR.....30,384	*VA2WA.....310,899
KP2M.....536,360	*N4AX.....31,211	W7ZB.....11,696	*R7NP.....28,860	*VE3PN.....208,620
DL1AUZ.....519,095	*K3TW.....30,264	VA7IR.....7,904	*RA4CB.....25,389	*K3ZU.....198,075
HK1X.....516,384	*W9CC.....24,960	K7BHM.....7,790	*RX3XA.....24,660	*K3WW.....152,564
		W6RKC.....5,075		*W0AIH.....114,264
Zone 14	MULTI-OPERATOR WORLD			*KV0Q.....114,030
CS2C.....1,218,780	CN2AA.....3,410,560	Zone 4	LOW POWER WORLD	*K8PL.....107,916
GU4YOX.....887,985	PJ2T.....1,792,342	W5MX.....194,396	*WD5COV.....162,450	*WD5R.....103,748
EI5KF.....767,016	S51V.....1,460,580	W5PR.....184,730	*E74R.....157,080	*W1CTN.....79,496
TM5X.....650,839	HG8DX.....1,404,135			*K0YR.....77,760
DL1AUZ.....627,105	UA7K.....1,257,249			
G6M.....605,500	EI0R.....1,240,008			
DK9IP.....571,650	OL7M.....1,205,986			
M3I.....488,808				

*Low Power

K5RX, W9RE, WD5COV, and K1LT. Mike, W9RE, reports he had the best EU opening ever from his QTH on the second night. Still Jim, K5RX, took top Zone 4 honors with his fine top-band station and dedication.

In Zone 3 U.S., where scores are limited due to propagation disadvantages, Glen, K6NA, stuck it out for over 750 QSOs to take top honors.

A few years ago, this author thought he would try QRP in a 160-meter contest. That was the first and last time! But still it remains a very popular category. We made an extra effort to check SDR and RBN archives, in order to keep power levels at the proper values and to level the playing field.

In Europe, OL4W took the top spot with his competitors - S57M, LY5Q, and S52P - all within 40,000 points. Congratulations to Milan, who went QRP for the sixth time since 2006, on his victory.

AA4XX and N4UA fought it out in the U.S., separated by only 4,000 points after log checking. It was Paul's fourth attempt at QRP, and first victory.

In the most popular Assisted category in W/VE, John, VE3EJ, used his fine station to edge out VA2WA for the number 1 score two years in a row. Dennis, W1UE, went SOA for the first time, piloting the Cape Cod station of W1KM to number 1 in the U.S.

Just how important is your QTH in a 160-meter contest? You need to be on the coast. Look at the gap in scores made by VY2ZM on Prince Edward Island, and CS2C in Portugal. Jiri, OK1RF, operating at CS2C, was 400,000 points past his nearest competitor in Zone 14, GU4YOX.

SSB

Conditions were quite challenging on SSB, confirmed by most every station's comments and soapbox.

Peter, K3ZM, who has gone Single Op on SSB every year except 2009 for the past 10 years, continued his winning streak but the score continued its downward trend. Of course, the score from Jeff at VY2ZM is so far above everyone else's, it is just amazing. The ZMs won 1 and 2 in the World Single

2017 CQWW 160M CONTEST CLUB SCORES

(Minimum of 3 three entries required for listing)

SCORE	#ENTRIES	CLUB	SCORE	#ENTRIES	CLUB
25,161,469	200	BAVARIAN CONTEST CLUB	542,905	7	CENTRAL TEXAS DX AND CONTEST CLUB
12,012,955	141	POTOMAC VALLEY RADIO CLUB	526,083	7	BRISTOL (TN/VA) ARC
9,808,422	74	UKRAINIAN CONTEST CLUB	512,588	6	DONBASS CONTEST CLUB
9,516,689	76	FRANKFORD RADIO CLUB	487,550	4	S59ACP
8,737,027	55	RHEIN RUHR DX ASSOCIATION	464,012	6	NORTH CAROLINA DX AND CONTEST CLUB
8,510,784	76	YANKEE CLIPPER CONTEST CLUB	460,446	5	BERGEN AMATEUR RADIOASSOCIATION
7,260,876	45	CONTEST CLUB ONTARIO	459,065	4	CENTRAL SIBERIA DX CLUB
6,435,476	32	ITALIAN CONTEST CLUB	454,580	4	SAUDI CONTEST GROUP
5,519,391	38	KAUNAS UNIVERSITY OF TECH. RADIO CLUB	446,855	12	SHENANDOAH VALLEY WIRELESS ASSOCIATION
5,242,946	85	SOCIETY OF MIDWEST CONTESTERS	444,254	16	DFW CONTEST GROUP
5,008,813	21	RUSSIAN CONTEST CLUB	411,619	8	WILLAMETTE VALLEY DX CLUB
4,638,037	44	SP DX CLUB	408,312	11	WESTERN WASHINGTON DX CLUB
3,846,133	40	ARIZONA OUTLAWS CONTEST CLUB	390,428	3	XE-DXERS
3,479,421	17	SLOVENIA CONTEST CLUB	372,247	3	KIROVOGRAD REGION RADIO CLUB
3,396,618	18	MAD RIVER RADIO CLUB	368,731	9	GRAND MESA CONTESTERS OF COLORADO
3,272,490	13	CROATIAN CONTEST CLUB	368,707	11	VRHNIKA CONTESTERS
2,655,873	14	HUNGARIAN DX CLUB	355,464	6	NIAGARA FRONTIER RADIOSPORT
2,624,038	30	EA CONTEST CLUB	338,279	3	GM DX GROUP
2,546,102	21	CONTEST CLUB FINLAND	329,876	5	RUSSIAN CW CLUB
2,486,292	14	BELARUS CONTEST CLUB	320,070	3	UR-QRP-CLUB
2,298,053	42	MINNESOTA WIRELESS ASSN	298,583	4	THRACIAN ROSE CLUB
2,257,658	8	URAL CONTEST GROUP	288,413	11	ROCHESTER DX ASSOCIATION
2,241,327	14	VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	270,113	3	TOP DX RADIO CLUB
2,174,649	12	BELOKRANJEC CONTEST CLUB	264,500	3	TEXAS DX SOCIETY
1,952,360	27	FLORIDA CONTEST GROUP	263,940	7	BIG SKY CONTESTERS
1,881,190	8	UA2 CONTEST CLUB	254,044	7	RU-QRP
1,681,286	7	CHILTERN DX CLUB	237,563	4	RADIO AMATEURS OF NORTHERN VERMONT
1,561,255	10	CONTEST CLUB SERBIA	234,951	7	ORCA DX AND CONTEST CLUB
1,485,367	5	WORLD WIDE YOUNG CONTESTERS	223,331	5	RADIOSPORT MANITOBA
1,471,642	25	TENNESSEE CONTEST GROUP	223,176	7	SWAMP FOX CONTEST GROUP
1,416,231	17	NORTH COAST CONTESTERS	216,578	7	DEUTSCH AMATEUR RADIO CLUB
1,310,242	6	CONTEST GROUP DU QUEBEC	196,183	3	MISSISSIPPI VALLEY DX/CONTEST CLUB
1,265,058	22	SOUTHERN CALIFORNIA CONTEST CLUB	171,878	4	SPOKANE DX ASSOCIATION
1,213,392	6	BOSNIA AND HERZEGOVINA CONTEST CLUB	171,861	4	CSM TIMISOARA
1,210,252	9	LATVIAN CONTEST CLUB	161,053	8	METRO DX CLUB
1,099,393	12	KENTUCKY CONTEST GROUP	155,869	4	BAY AREA DXERS
1,041,208	8	ALRS ST PETERSBURG	151,359	3	LIPETSK RADIO CLUB
1,037,364	9	GIPANIS CONTEST GROUP	151,155	4	UKRAINIAN DX CLUB
1,032,528	33	NORTHERN CALIFORNIA CONTEST CLUB	150,181	8	WEST PARK RADIOPS
1,023,317	8	NORTH TEXAS CONTEST CLUB	143,204	4	OMSK REGION RADIOCLUB
916,525	3	SHAKHAN CONTEST CLUB	143,014	4	SUSSEX COUNTY ARC
875,807	10	DANISH DX GROUP	135,993	3	PORTAGE COUNTY AMATEUR RADIO SERVICE
874,967	10	GEORGIA CONTEST GROUP	130,060	3	UTAH DX ASSOCIATION
847,103	9	BLACK SEA CONTEST CLUB	106,743	3	RADIOCLUBUL QSO BANAT TIMISOARA
792,495	5	CTRI CONTEST GROUP	98,597	3	URE BAIX CAMP
753,373	7	MARITIME CONTEST CLUB	96,829	4	R4F-DX-G
712,358	12	HUDSON VALLEY CONTESTERS AND DXERS	95,151	3	FALKOPINGS RADIOCLUB
708,634	11	KANSAS CITY CONTEST CLUB	88,772	5	YORK COUNTY CONTESTERS
699,384	3	OKLAHOMA DX ASSOCIATION	54,867	7	KRIVBASS
697,636	5	WEST SERBIA CONTEST CLUB	54,021	3	HILLTOP TRANSMITTING ASSOCIATION
680,708	14	SOUTH EAST CONTEST CLUB	53,871	4	ARKTIKA
633,725	4	SOUTH URAL CONTEST CLUB	50,693	3	MOTHER LODE DX & CONTEST CLUB
624,833	4	RIIHIMAEN KOLMOSET	50,390	3	VK CONTEST CLUB
621,737	10	ALABAMA CONTEST GROUP	40,060	4	PACIFIC NORTHWEST VHF SOCEITY
612,412	3	RCWC	14,919	3	THE AKITA DX ASSOCIATION
610,766	6	CAROLINA DX ASSOCIATION	5,952	4	RADIO CLUB VENEZOLANO
603,830	3	SRR	2,657	4	ARAUCARIA DX GROUP
557,251	7	YO DX CLUB	581	3	YB LAND DX CLUB
553,091	7	LA CONTEST CLUB (NORWAY)			

Op, but the gap in score is 500,000 points. Peter even edged out John, ZF2AM, the top DX scorer, by 13,000.

The European battle was fierce between ES5RW, F6GOX, and DJ7WW. Only 25,000 points separated the trio. Low Power Single Op winners were perennials WD5COV, VE3MGY, and E74R.

I can't imagine the struggle of Single-Op QRP on SSB, but congratulations go to E77CV, E74Y, and W7XU with their fine effort. W7XU last appeared in the CQ 160 contest in 1998.

However, the real competitions occurred in the multi op category. The team of 6Y1M, operated by RN5M and S55M, operating at 6Y5LZ, took top honors. Krassy, K1LZ's, home station operated by the man himself and K3JO, also took top U.S. honors. A regular Petkov sweep.

KW7MM/VY2, operating at VY2TT, was a close second in world multi, but ended in a virtual tie with C6ANA. The two were separated by only 3 points after log checking!

S51V, HG8DX, HB9CA, and RW2F all had great scores over 400,000. In these challenging conditions, they were fine efforts indeed.

In the Assisted category, OK1BN piloted OK7K to a huge victory. It was Petr's first Single-Op effort in the SSB contest, and used his vertical and assorted RX antennas to his advantage. SN2M, LY4A, and UA2FZ came in second through fourth, respectively.

In Canada, the top score was VA2WA again, with 666 QSOs over the next competitor, VE3PN. In the U.S., Vasily,

K3ZU, took top honors over K3WW and W0AIH.

In the western U.S., W5MX and W5PR duked it out for the Zone 4 top spot, with MX winning by a mere 10,000 points. N7AU was the leader on the west coast, with NS7K taking the low power spot.

Congrats to longtime friend and tester Willy, UA9BA, who took the top Russia spot (other than UA2FZ) all the way from Chelyabinsk.

Reminders About Contesting on 160

As in 2016, there were numerous complaints from testers and others about the use of the spectrum during the contest. The main problem was the use of 1810 and below during the SSB contest in IARU region 1. We checked the logs for frequency violations, and warning letters were sent to the stations involved. QSOs were also removed if they were made out of the allocated band segments.

Additionally, there were some stations found to have signals with excessive bandwidth. Warning letters were also issued, and could result in future disqualifications. Look out especially for key clicks.

Some stations were also found to be self-spotting on the DX Cluster, and were reclassified or disqualified.

We encourage everyone to play by the rules, and the committee will do its best to keep the contest fairly adjudicated.

In closing, I would like to extend special thanks to all those assisting us to make the contest a success, including N6TR (log checking), K1DG (trophies),

K5ZD (webmaster), and VE3MGY (records).

Certificates for everyone are available now for printing on our website at CQ160.com with trophies being mailed shortly.

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.

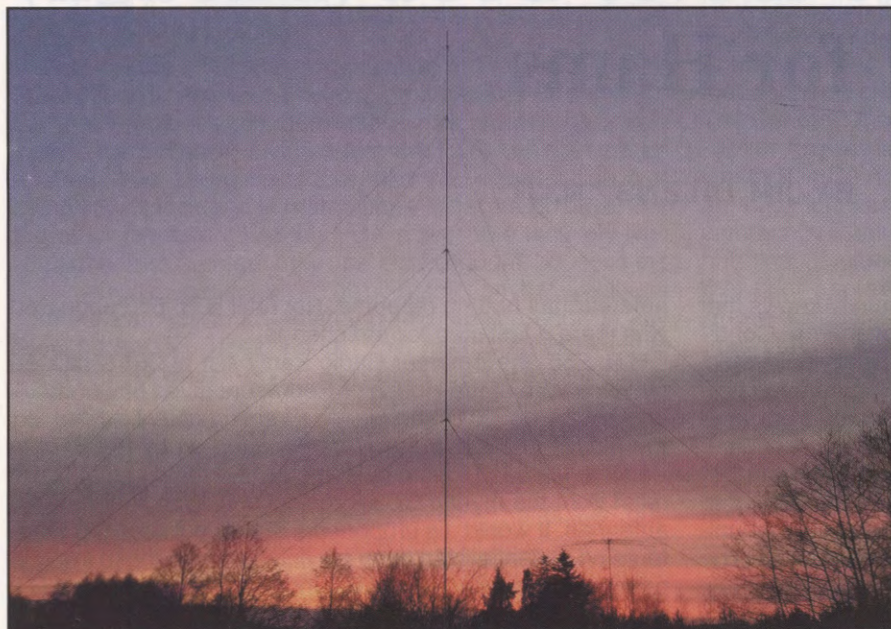
Thanks to all for participating and I hope to see you in 2018. Remember, all CQ Contests have a 5-day deadline for submitting logs. Check out the rules on CQ160.com for the latest information.

— 73, Andy, N2NT

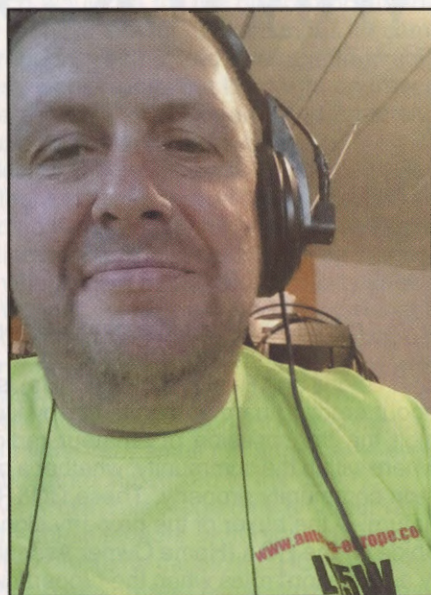
(Scores on page 101)



Val, N4RJ, made some QSOs at night, while looking for birds in the day.



Sunset on the vertical at SN2M.



Top low power in Lithuania was Sam, LY5W. I know it's him because it says so on the shirt.

Number groups after calls denote score, total QSOs, W/E multiplier, countries worked. Total multiplier is the addition of the W/E and countries. Multi-op scores follow single-op listings. An asterisk (*) denotes low power. State, province, and country certificate winners are listed in bold.

2017 CW RESULTS

SINGLE OPERATOR

NORTH AMERICA

UNITED STATES

CONNECTICUT

W1AN	170,610	541	54	40
K1KI	116,454	451	50	28
*W1OK	103,460	612	53	17
W1WFE	97,359	578	52	17
W1EQ	85,568	563	51	13
K1BUB	21,868	203	39	5
*K1A1L	20,492	172	40	7
*K1BV	19,912	222	34	4
*K1XS	6,642	105	25	2
*W3SM	5,568	101	24	0
*W1AJD	4,095	44	29	6
*K1C1SA	2,300	53	20	0
*W1ZFG	1,785	39	17	0

MAINE

*N1CGP	24,017	207	42	5
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MASSACHUSETTS

K1LZ	622,323	1207	59	58
K5ZD	230,660	726	55	40
W1TO	129,792	624	55	23
*N1DC	62,245	431	48	11
NB1N	62,036	506	44	8
*N2AN	46,726	287	48	13
*W1KM	28,469	218	39	10
*W1OI	26,411	218	40	9
*N1QY	25,709	224	40	7
*N1NN	8,265	120	28	1
*W1UJ	2,286	53	18	0
*W1MJ	1,036	28	14	0
*W1HFF	561	18	11	0

NEW HAMPSHIRE

K1TR	157,112	665	54	28
*N1X	102,127	549	53	20
*N1GN	62,377	355	51	16
*K1OR	2,125	34	22	3
*K1PDY	1,008	27	14	0
*N1IMW	374	20	11	0

RHODE ISLAND

W1XX	311,746	886	56	50
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VERMONT

W1SJ	177,671	883	58	21
AA1SU	41,004	347	47	4
K1VMT	40,425	338	42	7
KB1ODO	8,256	105	30	2

NEW JERSEY

K2TTT	109,573	633	56	17
*KE2D	80,724	558	52	10
*W2KG	58,590	473	48	6
*N2UJ	35,955	287	43	8
*W2ALY	16,687	164	36	5
*W2TT	8,246	109	29	2
*K2DJC	7,337	110	28	1
*W2CVW	4,440	75	23	1
*W3PR	3,618	55	24	3
*K2JT	2,814	58	20	1
K2LST	8	2	2	0

NEW YORK

N5DX	641,802	1341	58	60
W2FW	331,602	1106	60	42
W2RR	141,150	789	58	17
K2NV	132,386	745	55	19
K2OS	82,929	354	54	23
K2UF	82,698	517	52	14
W2ACP	69,972	396	48	20
N2YB	67,535	371	46	19
*N2BEG	58,410	413	49	10
W2GR	53,406	424	47	7
*W2AJK	41,448	245	52	14
*K2OB	18,734	215	36	2
*AC2IK	18,576	181	38	5
*N2WZK	18,377	150	42	5
K2XA	17,168	92	45	13
*W2LC	14,555	147	39	2
*K2CS	13,200	141	38	2
*W2SM	10,304	95	43	3
W2B2WPM	8,610	108	32	3
*K2NPN	7,194	94	33	0
*N2WZ	1,890	27	29	1
*N2N2N	1,178	25	17	2
*AC2OH	470	16	10	0
*AA2SX	432	21	9	0
*AC2JR	203	13	7	0

DELAWARE

AA1K	592,620	1339	59	60
*N8NA	68,055	435	51	14
*K3CWF	5,049	80	27	0
*W3ASW	4,239	68	26	1

MARYLAND

W3LL	291,486	1030	58	43
*K04D	289,380	914	59	46
K3ZO	282,914	920	57	49
K3RA	154,352	671	57	31
K3TC	105,307	498	55	24
K8GU	50,691	320	46	15

*K3KU	45,315	372	46	7
W3PH	34,020	261	47	7
*AA3S	23,265	212	39	6
*N3XL	13,376	163	36	2
*N3TE	13,065	141	35	4
*W3FA	10,804	125	34	3
*W3SFG	9,695	112	33	2
W3MR	2,288	31	16	6

PENNSYLVANIA

W3BGN	376,704	1070	59	49
K3UA	337,120	794	58	54
W3TS	216,195	1009	59	28
K3UL	197,568	773	59	37
W3SO	96,380	462	55	24
*K3SWZ	72,002	357	52	22
NA3F	66,002	449	48	13
*K3QLF	60,760	389	50	12
*K2LNS	58,590	381	51	12
*W3WS	55,610	318	52	15
K3PP	54,592	343	51	13
W3WA	50,924	368	49	9
*W3SC	33,696	263	44	8
KY3W	29,700	219	48	7
*N3LT	29,344	197	45	11
*W3KB	26,606	199	44	9
K3OO	7,020	48	13	17
W3AAN	5,656	83	27	1
NF3R	1,275	35	15	0
*W3KM	468	15	13	0

ALABAMA

N4NO	125,846	461	55	34
*K4WI	115,514	648	53	21
*W4IFCN	82,276	511	49	18
*K4TEO	41,496	307	48	9
*W4JSI	21,510	211	41	4
*K8AJX	16,641	170	38	5
*N4AU	9,994	118	35	3
*N4SDB	840	21	12	3

FLORIDA

N4OX	77,472	425	53	19
KM4HI	76,160	438	51	19
N8PR	59,760	226	53	27
WF3T	46,935	300	49	14
*N4EK	31,200	275	39	9
N1TO	24,168	184	45	8
*N4UM	16,744	152	39	7
*W4OEP	10,965	116	36	7
*W4OAMM	10,602	109	32	6
*W3USA	5,797	76	25	6
*N4DX	5,550	78	25	5
*N4VY	3,255	41	25	6
*K8MR	3,000	52	20	4
*K4FU	14	2	1	1

GEORGIA

KU8E	197,280	770	57	39
K4BAI	176,436	756	55	32
W5JR	124,640	566	52	30
*K4MF	38,860	268	46	12
W4KU	26,871	202	43	10
*A4ALR	18,081	143	41	8
*N8DFD	5,504	73	31	1
*N4DK	3,836	60	26	2
*N4WD	3,250	52	25	1
*A4UJ	1,323	26	19	2
*W4EMI	1,197	27	21	0

KENTUCKY

*K4QW	67,083	492	49	10
*K4MF0	28,860	241	46	6

NORTH CAROLINA

N4AF	163,152	663	55	33
N4CW	161,048	818	57	25
K2LS	130,088	462	55	37
*W8GY	38,248	285	47	9
AD8J	33,456	274	40	11
*N4AA	21,855	200	42	5
*A14GR	19,646	166	39	8
K4KAY	16,950	142	41	9
K4NC	14,080	107	34	10
*W2GDB	9,735	131	32	1
*K4KZ	1,725	33	22	1
*N4CTT	1,368	38	18	0

SOUTH CAROLINA

K4HR	58,765	292	52	21
NJ4F	46,551	317	48	11
K7OM	43,380	286	48	12
*W8AQR	25,248	216	40	8
*WU2T	16,598	158	38	5
*W2EMF	12,240	110	40	5
N4UPP	5,255	35	21	4

TENNESSEE

K0EJ	226,135	920	56	35
*WASPOK	178,785	787	57	30
AC4G	122,144	424	53	35
*K3IE	94,462	516	55	18
K4UT	82,355	541	53	12
K1GU	76,296	424	51	17
AD4EB	72,954	504	52	11
W84YDY	68,231	368	52	19
*W4DAN	50,787	384	48	9
*AA4NU	49,335	298	52	13
*N4ZZ	44,500	391	46	4
*N4AK	35,231	316	44	5
*K9JU	27,500	200	46	9
*AB4GG	23,079	192	41	8
AA4H	20,332	150	43	5
*W8BRYC	9,729	83	42	5
*W4JUU	7,722	108	31	2
W4NZ	3,654	51	27	2

*AA9K	2,112	42	22	0
*W05DAX	1,184	37	16	0

VIRGINIA

K3ZM	862,916	1537	58	66
K0ZR	292,500	1035	58	42
W4CB	204,776	878	54	34
N4DJ	129,591	705	56	21
*K4ORD	105,488	540	55	21
W4YE	62,511	363	53	14
*W4PJW	55,571	390	51	10
K4RDU	48,439	341	48	11
*W4PFM	38,998	239	48	14
W4WWQ	38,936	239	47	15
*K4FTO	29,520	255	42	6
*N4CF	26,588	258	43	3
N3JB	26,300	205	42	8
*W3TB	25,004	211	38	9
*K4FJW	24,794	210	42	7
*K4RV	24,745	192	40	9
N3KN	23,300	197	44	6
*K8SYH	22,231	192	39	8
W4UA	20,792	200	42	4
*K4IVF	19,494	136	44	10
*K4SO	16,732	138	40	7
NR4C	13,571	135	35	6
*K04LA	13,440	168	34	1
*K4GJF	11,800	118	37	3
N4MM	11,223	91	34	9
*KK4R	9,216	98	31	5
*N3CKJ	8,773	122	29	2
*K4HOK	8,481	109	31	2
N8AID	8,170	65	26	12
*W4MI	8,155	99	32	3
AD4JT	3,276	66	19	2
N3AO	3,250	53	23	2
*K4AKL	3,225	57	25	0
*W4GRC	2,737	52	22	1
*K4MIL	976	26	15	1
*W4ZYT	559	20	13	0

ARKANSAS

W5DR	399,816	1232	59	49
*K0DJ	21,945	161	46	9
W5KI	224	10	7	1

LOUISIANA

N1TO	190,464	772	57	36
*K4VB	28,938	231	46	7
K4SM	23,154	197	44	7

K01DX	NORTH DAKOTA				*3V8CB	Tunisia				UN5J	Kazakhstan				*0K1UKV	43,602				*RX3MM	5,206			
	196,690	938	59	26		427,180	822	6	46		13,580	80	0	20		36,180	238	0	39		5,206	54	0	19
K09EE	SOUTH DAKOTA				*V01NA	ASIA				UN7CN	13,580				*0K1XC	36,180				*UA4NCI	4,606			
	31,506	214	50	9		277,750					6,540	57	0	15		33,626	201	0	34		3,808	49	0	17
*V02AC	CANADA				*V02AC	NEWFOUNDLAND				UN7TW	2,475				*0K2BME	31,208				*RA4UJ	2,329			
	530	11	7	3		130,080					1,490	22	0	10		21,708	121	0	36		2,280	33	0	15
VE9CB	LABRADOR				VE9AA	R8CA				UN7FW	1,092				*0K6N	20,790				*UA3NFI	1,989			
	328	10	8	0		112,455					28					15,090	102	0	30		1,896	37	0	12
VE9AA	NEW BRUNSWICK				VE9AA	*R9CCK				DS4EOI	7,600				*0K1AUC	7,392				*RX3S	1,876			
	459,000	792	57	45		62,868					145					1,045	12	1	10		1,210	28	0	11
VY2ZM	PRINCE EDWARD ISLAND				VY2LI	*R9AB				BV1EK	5,643				*0K2SGW	364				*RU6B	1,170			
	1,893,002	1811	58	84		18,348					32					11	0	7	1,128	22	0	12		
*VE2AWW	QUEBEC				*VE2UMS	*R9CCK				*HS3XVP	14,991				*0Z1AAR	291,760				*R6AWF	935			
	182,336	466	52	25		62,868					32					796	12	58	935	11	0	11		
*VE2HLS	ONTARIO				*VE2HLS	*R9AB				*E21EIC	14,991				*0Z6KS	244,260				*R6AW	935			
	22,680	165	30	0		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	SASKATCHEWAN				*VE2HLS	*R9CCK				*HS3ANP	14,991				*0Z7YY	244,260				*R6AW	935			
	19,584	124	30	4		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	ALBERTA				*VE2HLS	*R9AB				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	BRITISH COLUMBIA				*VE2HLS	*R9CCK				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	NORTH AMERICA				*VE2HLS	*R9AB				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	EUROPE				*VE2HLS	*R9CCK				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	EUROPEAN TURKEY				*VE2HLS	*R9AB				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	FINLAND				*VE2HLS	*R9AB				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	FRANCE				*VE2HLS	*R9CCK				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	GERMANY				*VE2HLS	*R9AB				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	ITALY				*VE2HLS	*R9CCK				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	NETHERLANDS				*VE2HLS	*R9AB				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	POLAND				*VE2HLS	*R9CCK				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	PORTUGAL				*VE2HLS	*R9AB				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32					811	8	51	935	11	0	11		
*VE2HLS	ROMANIA				*VE2HLS	*R9CCK				*9M2/JE1SCJ	14,991				*0Z8UR	244,260				*R6AW	935			
	113,764	323	47	21		62,868					32													

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5B4AIF *H2X	213,009 21,870	382 81	6 0	51 27	DK5AI DL1DTL DL8UD *DH1TS DK2TG DL1A DM5TI DK8ZZ DL5LYM DG2NMH *DJ7MH *DF7RG DF2TT DO4DXA *DF1LX DK2CX DL5ST *DF1LON DO4TP DK5TX DJ6TB *DL8ZAJ *DC2VE DL1NEO	34,200 25,340 24,707 24,325 20,335 19,380 19,350 17,748 16,467 14,560 14,355 13,446 13,284 13,076 12,390 12,183 12,152 11,648 11,367 7,248 7,050 4,662 4,104 3,294	196 165 192 154 132 157 152 145 120 98 119 60 105 105 83 100 100 95 69 61 51 51 45	1 0	37 35 31 34 35 30 30 29 32 32 29 40 28 30 31 28 28 27 23 24 21 19 18
4X1IM	Israel 7,620	40	0	20	SV2BZ SV2JV *SV2JAO SV3KU SV3DVO *SV1EJD *SV3ICK	76,230 68,208 48,461 22,308 14,810 1,875 1,118	339 277 228 135 101 26 18	0 0 0 0 0 0 0	45 47 42 33 30 15 13
7Z1SJ *H2ITL	Saudi Arabia 20,370 329	63 7	7 1	28 6	Hungary HABV HASUA *HABAR *HAGC *HAGNL *HABFM *HASPP	97,776 70,004 33,005 20,163 17,075 12,122 6,371	400 326 191 126 138 87 58	1 1 0 0 0 0 0	47 42 35 33 25 29 23
OE1TKW *OE2LOM OE5UAL	EUROPE Austria 67,868 12,200 7,675	277 100 63	6 0 0	41 25 25	Italy IK4DCX IZ5ICH IK0XB IK2TDM IZ5MOQ IUA4CH IZ5NFD *IZ5DQX *IZ5DQX	93,812 56,064 48,066 28,876 28,005 21,920 3,792 3,454 2,499 816	409 225 214 127 151 141 32 25 30 17	46 45 41 42 34 31 24 19 17 12	
EF6T	Bosnia-Herzegovina 93,345 52,800 34,040	373 280 184	2 0 1	47 40 36	Latvia LA5VJ *LA5TY	62,744 16,492	264 117	1 0	45 27
EW1I *EUSA EW7M	Belarus 61,834 31,122 1	282 154 0	2 0 0	41 39 1	Lithuania LY2OU LY2VB LY5W LY5R LY5O *LY2SA LY3B LY7Z *LY4Z	428,079 97,053 89,694 25,668 24,738 19,292 13,104 4,446 4,208	843 377 316 138 134 142 105 52 58	19 2 5 0 0 0 0 1 1	74 49 49 36 37 28 26 17 16
007P *0N1TO	Belgium 36,585 33,824	156 210	4 0	41 32	Netherlands PA4VHF PA1BX *PE1EWR *PASCC *PA3AAV *PA8KW *PA8MJM	133,114 9,300 7,452 5,020 4,617 1,638 1,155	409 74 64 52 49 23 20	12 24 22 20 2 13 11	50 24 22 20 17 13 11
E73ESP *E78T E70T	Bulgaria 58,320 10,791 6,096 30	246 60 48 2	1 1 0 0	44 32 23 2	Norway LA5VJ *LA5TY	62,744 16,492	264 117	1 0	45 27
SV9GPV	Croatia 90,100 12,925 5,911	322 107 50	7 0 0	46 25 23	Poland SN2M SP9N *SP3P *SQ4JN *SP6NIC *SP6MLX *SP6FB *SP6GMM *SP5NZA SP10 SP9H2W SP3DM *SP2DKI SQ2HL	499,804 229,827 86,020 42,180 38,360 33,192 30,975 29,399 26,037 17,570 9,074 3,822 3,672 1,040	941 637 386 235 193 193 184 113 163 102 71 27 44 16	30 13 45 36 37 35 34 2 3 2 26 20 17 13	68 58 45 22 20 20 17 13
*9A2EU	Denmark 90,100 12,925 5,911	322 107 50	7 0 0	46 25 23	Portugal CT2HKN *CT2G5N	17,710 2,907	98 35	1 0	34 17
OK7K OK1W OK1T *OK2BFN OK6AB *OK6AA OK2ZV OK1DXW	England 113,960 3,840	409 37	7 1	48 19	Romania YU3EEA Y77R *Y77LP YU3APJ *Y07LPV Y07MGG Y03GNF	106,756 28,197 27,434 2,806	392 137 192 22	7 1 0 2	45 38 29 23
OZ4VW OY90EDR *OZ1DJJ	Estonia 104,250 37,030	405 210	1 1	49 34	Slovakia YU3EEA Y77R *Y77LP YU3APJ *Y07LPV Y07MGG Y03GNF	106,756 28,197 27,434 2,806	392 137 192 22	7 1 0 2	45 38 29 23
G5K G3UHU	European Russia 96,320 87,822 67,445 43,516 37,972 18,122 17,408 14,592 12,431 7,280 7,047 5,712 594	337 339 291 197 171 101 96 75 79 46 29 19 14	3 5 4 2 2 2 0 1 0 0 0 0 0	53 46 46 42 42 32 34 31 31 20 20 24 24	Sweden SN2M SP9N *SP9NZA SP10 SP9H2W SP3DM *SP2DKI SQ2HL	499,804 229,827 86,020 42,180 38,360 33,192 30,975 29,399 26,037 17,570 9,074 3,822 3,672 1,040	941 637 386 235 193 193 184 113 163 102 71 27 44 16	30 13 45 36 37 35 34 2 3 2 26 20 17 13	68 58 45 22 20 20 17 13
ES5MG *ES4NY	France 81,900 6,486 1,744 682	260 57 22 13	10 0 0 0	50 23 15 11	Switzerland HB9CA HB9CXZ HB9BL	427,800 215,040 147,028	862 586 490	26 55 11	67 55 48
RZ3EC RU1AB R3ST RD1AH RN3OG UAGAH R03G RA1QD *RKGAQP *RY4F RL4A RL3BZ *R3IAN	Germany 250,410 227,700 220,020 165,760 110,502 90,211 87,700 85,278 72,332 69,286 65,050 60,662 50,900 50,002 48,321 47,089 43,952 43,946 34,632	613 641 606 414 355 317 370 280 304 308 286 256 214 222 139 202 223 217 213	23 18 15 19 12 11 15 12 14 5 5 7 4 13 6 2 39 39 36	62 57 61 61 51 48 45 49 45 45 42 42 46 43 39 39 36	Switzerland HB9CA HB9CXZ HB9BL	427,800 215,040 147,028	862 586 490	26 55 11	67 55 48



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WR50 W5RTA	TEXAS 76,380 33,925	485 246	56 7	11	Germany DK0IW DF0SAX DP7D DR7B DM4TR DL0EB DL0PS	215,754 168,220 84,976 56,000 47,592 21,714 20,757	602 567 426 310 319 149 148	21 11 4 39 0 32 33	56 54 43 39 36 32 33
NA7TB W7FSL	ARIZONA 166,460 19,872	845 153	58 47	24	Greece J43TR J43P	179,740 41,940	655 237	2 1	53 35
K7JR K7BUY	OREGON 20,550 7,912	170 79	44 40	6	Hungary HG8DX HG5A	448,200 165,859	930 527	24 10	66 51
N7JW	UTAH 42,517	304	52	9	Italy IQ1CN IQ7NK IQ4DJ	65,472 48,200 351	317 192 9	1 40 0	43 40 9
W8CT	MICHIGAN 35,739	278	51	6	Katlinograd RW2F	418,692	822	26	66
ND8DX	OHIO 243,810	1042	58	32	Lithuania LY2Z0 LY2XW LY40	116,016 111,564 99,452	478 404 423	2 31 2	46 51 45
WB0VAK	MINNESOTA 62,118	441	54	9	Netherlands PI4F	24,920	145	0	35
VE3V VE3DC	CANADA PRINCE EDWARD ISLAND 543,348	834	57	51	Poland SN8B SN1D SP2KDS	311,416 240,648 112,200	721 633 410	21 12 5	62 62 50
VE4VJR	ONTARIO 247,779	748	57	12	Romania YR8D YR8E YR5W	203,314 106,704 20,142	676 355 152	5 48 2	54 48 27
VE7NY	MANITOBA 80,769	296	53	4	Serbia YU7ADY	46,692	259	0	36
C6ANA	BRITISH COLUMBIA 140,901	438	56	11	Slovakia OM3KFF OM6H	47,519 24,335	225 158	0 31	41 31
T11T T15M	NORTH AMERICA Bahamas 543,345	823	57	54	Slovenia S51V S56P S50L	519,988 58,228 61,392	958 819 246	28 19 6	70 64 42
TO3Z	Costa Rica 44,312	142	38	20	Spain EA4GLI	68,730	214	14	44
6Y1M	Guadeloupe 153,425	306	46	39	Sweden SE5X SK7K	147,950 65,800	521 325	3 0	52 40
XE1RCS	Jamaica 637,330	897	57	58	Switzerland HB9CA HB9CXZ HB9BL	427,800 215,040 147,028	862 586 490	26 55 11	67 55 48
RD8D	Mexico 164,340	354	52	31	Ukraine UZ2I UT4UWC	36,240 17,820	186 142	1 0	39 27
CT7C YM7KA	ASIA Asiatic Russia 4,074	32	0	14	OCEANIA Indonesia 28	3	0	2	
EU1WW	Asiatic Turkey 126,378 88,640	309 228	1 0	41 40	SOUTH AMERICA Uruguay 140	4	2	2	
OT6M OT5A	EUROPE Belarus 240,619	636	9	62	Check Logs DF5RF, DL3AM, DL6DCC, DL6MFK, DM5DX, E72U, EA1FDI, EA3HEU, EA3JL, EA3NP, G4FR, HC2AO, HG17YOF, IR9RW, IT9AT, K1XS, K7JAN, KP4KE, KW4KC, LZ1JZ, OF5Z, OH5TS, OK1FMX, R6FR, R6FY, RT7T, RA4AAT, RM2U, RT7F, S51YI, S53DU, S59EJ, S59T, SP2LOP, SP9CVY, SV1DPI, SV1PMO, SV3QUP, SV3RF, TF3SG, UA3EDQ, UA6EX, UA9JLL, W040, YT6W.	350,060 292,560 103,235 82,610	713 712 373 295	20 13 3 4	72 67 52 51
LZ5R	Belgium 288,117 200,900	666 547	22 20	59 50	France 8,937	68	0	27	
9A6V	Bulgaria 181,200	577	5	55					
OK2KYJ	Croatia 29,120	168	0	35					
SX5R	Czech Republic 81,270	392	1	41					
UA7K RU1A R3LA RK4FL	Dodecanese 350,060 292,560 103,235 82,610	713 712 373 295	20 13 3 4	72 67 52 51					
TM2F	European Russia 350,060 292,560 103,235 82,610	713 712 373 295	20 13 3 4	72 67 52 51					
	France 8,937	68	0	27					