

Results of the 2019 CQ World Wide VHF Contest

BY JOHN "JK" KALENOWSKY,* K9JK

What a pleasant surprise for my first year as CQWW VHF Contest Director. The 27-hour contest period provided some interesting conditions with 951 logs submitted, and an additional 25 submitted as checklogs for a total of 976. This eclipsed the most recent high count of 907 logs from 2016. There was some regional e-skip in the U.S. on 2 meters early in the contest period. as shown in the log of Jay, W1VD. His comment on 3830scores.com noted: "Highlight was the sporadic-E opening(s) Saturday afternoon with nine stations worked in eight grids ... EM09 (KS), EM17 (KS), EM27 (KS), EM31 (TX), EN10 (NE), EN20 (NE), DM78 (CO), and DM79 (CO)." One of the stations that Jay contacted was Ken, WØETT, who reported that Connecticut was a new state for him on 2 meters. Wyatt, ACØRA/R, operating solo this year and despite losing almost an hour of operating time to replace the belt tensioner on his rover mobile, even managed to better the U.S Rover score record that he and Dave, KG5CCI, had just shattered in 2018.

K1JT's WSJT-X continues to impact this contest. 2017 was the first test of FT-8, 2018 was a "real" test, and 2019 was even testier with an additional 'flavor' added in to the mix, FT-4 (I sure hope Joe is not going try and top Baskin-Robbins, with 31, or more, flavors of digital modes. -JK). As was the case in 2018, there was almost always activity on 50.313 MHz and more stations tried 144.174 MHz (or other local FT-8 watering holes) for 2 meters.

Six meters was the most popular band with over 70,000 QSOs reported (in 832 logs) as compared to just shy of 9,400 QSOs on 2 meters (in 452 logs). According to the mode reported on "QSO:" lines in the logs, "PH" was the most popular, with 31,669 (45%) of the 6-meter QSOs and 5,403 (57%) of the 2-meters contacts. "DG" or "RY" was the choice for 41% of QSOs on 6 meters versus 22% of QSOs on 2 meters. "CW" was also popular on 6 meters with 9,523 contacts reported on "the origi-

nal digital mode." FM activity was significant on 2 meters with 1 in 6 QSOs reporting using the mode.

USA

Of the 951 logs that were scored, U.S. stations in the contiguous 48 states submitted 593. By category, Single

Operator, Single Band, 6 meters was the most popular with 271 logs. Single Operator, All Band was not too far behind with 232 logs. The remaining 90 logs from U.S. participants consisted of 30 Rovers, 26 Single-op QRP, 16 Multi-op, 12 2-meter only and 6 Hilltoppers. By call area, 4-land is the champion with



Bill, W4NQP, on 6 meters and Jon, KD4AMP, on 2 meters at N4SVC, 2019's top scoring Multi-op effort (Courtesy of Steve Kostro, N2CEI)

2019 CQWW VHF PLAQUE WINNERS AND DONORS

SINGLE OPERATOR, ALL BAND

WORLD: Dr. Gene Zimmerman, W3ZZ Memorial, sponsored by Directive Systems and the Grid Pirates.

Won by: **Aleksandr Maksimov, EA8DBM**

USA: Steve Bolia, N8BJQ Trophy. Won by: **Jeff Klein, K1TEO**

SINGLE OPERATOR, SINGLE BAND

WORLD 50 MHz: Jorge F. Rios Alvarado, XE2X Trophy. Won by: **Salvatore Tortoreti, IT9XTP**

USA 50 MHz: Dennis Motschenbacher, K7BV Trophy. Won by: **Dan Street, K1TO**

WORLD 144 MHz: CQ VHF Contest Committee Trophy, sponsored by Bostjan Sever, S56P.

Won by: **Bostjan Sever, S56P**

USA 144 MHz: Chuck Dietz, W5PR Trophy. Won by: **Jay Rusgrove, W1VD**

ROVER

USA: Northern Lights Radio Society Trophy. Won by: **Wyatt Dirks, ACØRA**

MULTI-OPERATOR

WORLD: Dr. Gene Zimmerman, W3ZZ Memorial, sponsored by Directive Systems and the Grid Pirates.

Won by: **HA6W (op: HAØLC, HAØLZ, HAØMK, HAØLO, HAØMP, HA6WX, HA6ZFA, HA5OKU**

USA: Bob Striegl, K2DRH Trophy. Won by: **N4SVC (op: KD4AMP, W4NQP, N2CEI)**

CLUB

USA: Director's Trophy, sponsored by JK Kalenowsky, K9JK. Won by: **Society of Midwest Contesters**

*Denotes awarded to runner-up in category

Email: k9jk.cq@gmail.com

154 logs. The 9th call area was the source of 63 logs, just edging ahead of 5-land and 7-land with 62 logs each. Next was 0-land with 52, followed by 2-land with 50. The 1st and 8th call areas matched each other with 44 logs. The 3rd call area provided 39 logs and California wrapped it up with 23 logs.

Jeff, K1TEO, claimed the U.S. top spot in Single Operator, All Band, with 671 QSOs on 6 and 130 QSOs on 2. Jeff's multiplier counts were also impressive, 162 grids contacted on 6 and 42 on 2 meters. Focusing just on 6 meters, Dan, K1TO, collected 700 QSOs and contacted 203 grids (that's VUCC TWICE in 27 hours of operating) from his Florida station to earn the best U.S. score in the Single Operator, 6-Meter only category. As noted in the introduction, ACØRA/R bettered his record-breaking Rover category score from 2018, finding another 13,000 points to raise the bar even higher for Rovers in the future. Wyatt's 568 QSOs on 6 plus 121 on 2 netted him a score that was almost 10 times that of his closest competitor, who just happens to have been your contest director and author of this article. In the Single Operator, All Band QRP category, Jim, KO9A, achieved a score of 48,510, the highest U.S. score in the category since 2007. Jim relied heavily on digital modes with 172 of his 298

reported contacts reporting "RY" as the mode. The U.S. top score for Single Operator, Single Band, 2 meters was claimed by Jay, W1VD, with 103 contacts in 54 grid locators (including some distant locators as mentioned in the introduction). Dan, W1QK, logged 25 QSOs and 16 multipliers, all on 6 meter, to top the Hilltopper category in the U.S. In multi-operator, the three operators of N4SVC amassed 679 total QSOs for a final score of 150,903, just edging ahead of the team of eight operators that piloted the K5QE station by just over 2,100 points.

The Society of Midwest Contesters repeat as the U.S. club competition leader with 26 entries netting a total score of 678,607. ACØRA/R's rover and K2DRH's SOAB efforts were almost two-thirds of the club's aggregate score.

DX

There were 358 logs received from all six continents.

Continent	Logs	# of different DXCC Countries
Africa	5	3
Asia	70	8
Europe	197	34
Oceania	8	1
South America	27	4
North America (other than U.S.)	51	8

Ukraine lead the way with a total of 40 logs submitted. Canada was close behind with 36. From Thailand, 29 logs were received with many of them multi-operator entries representing participation by another 80 licensees. Among DX logs submitted, Single Operator, Single Band, 6 meters was the most popular category with 129 entries. With 58 entries each, Single Operator, All Band and Single Operator, Single Band, 2 meters were next; and Single Operator, All Band, QRP followed closely with 56 log submissions. The remaining 57 DX entries consisted of 35 Multi-operator (16 of those from Thailand), 18 Hilltoppers, and 4 Rovers.

Aleksandr, EA8DBM, continued his streak as the top scorer in the Single Operator, All Band category among DX entries with 553 QSOs on 6 meters and 22 on 2 meters. Aleksandr's multiplier count on 6 meters was quite impressive, with 280 different grid squares recorded in his log. In the remaining single operator categories for the DX entries — Salvatore, IT9XTP, completed 545 QSOs in 174 multipliers for the best 6-meter Single Band score; Bostjan, S56P, logged 198 QSOs in 64 different grid locators to lead the world's Single Band, 2 meter entrants; Giuseppe, IZ8WGU, claimed the DX top score in the All Band, QRP category, though all of his 116 QSOs and 77 multipliers were completed on 6 meters; and the leading Hilltopper score was achieved by Zoltan, HA1ZH, with 96 QSOs in 46 grid locators.

Hungary was home to the leading Multi-operator category score among DX entrants. A team of eight operators at HA6W logged 172 contacts on 6 meters and 283 on 2 meters. Rover activity outside the U.S. remained scarce, with only 4 entries. Peter, VA3ELE/R, lead the "DX" Rovers.

Four logs submitted by members of the HA-DX-CLUB netted them the top DX score in the club competition with a total score of 137,178. The HA6W Multi-op entry produced 90% of the club's score.

The Rest of the Story

The CQWW VHF Contest will return for 2020 on July 18th and 19th. Mark your calendar and make your plans now. No

TOP SCORES WORLD

All Band		IZ2JNN/IN3 .....1,620
EA8DBM .....174,324	UT1IC .....1,392	
DL2OM .....129,117	OM3KHT .....1,200	
EA6SA .....50,553		
VE3WY .....24,966		
IK7LMX .....24,552		
6 Meters		QRP
IT9XTP .....94,830	IZ8WGU .....8,932	
XE2X .....72,930	YO8SSB .....4,800	
EA6VQ .....63,244	USØYA .....2,419	
E73S .....51,324	E74BYZ .....2,064	
IT9BDM .....36,096	VE2NCG .....1,550	
2 Meters		Rover
S56P .....25,344	VA3ELE/R .....2,170	
HA8IH .....20,130	E27DIX/R .....1,672	
YO2LSP .....5,920	RAØLQ/R .....468	
E74G .....5,312	VE3OIL/R .....378	
US8AR .....4,440		
Hilltopper		Multi-Op
HA1ZH .....7,222	HA6W .....123,246	
HA2VR .....6,630	IR9K .....107,300	
	VE3SMA .....42,795	
	4O6BLM .....38,220	
	J48KEF .....21,012	

USA

All Band		AD4IE .....256
K1TEO .....189,924	W1MR .....56	
K2DRH .....140,693		
N2NT .....102,784		
WA4GPM .....99,372		
N3MK .....74,800		
6 Meters		QRP
K1TO .....142,100	KO9A .....48,510	
KC4PX .....121,176	NØUR .....24,486	
N4BP .....113,520	WA5DM .....7,956	
W5PR .....99,640	K3TW .....6,213	
N4EEB .....89,760	AC5O .....5,780	
2 Meters		Rover
W1VD .....11,124	ACØRA/R .....327,240	
K1HC .....1,116	K9JK/R .....34,034	
WE7L .....768	N2SLN/R .....30,186	
WØLGQ .....544	WD9HBF/R .....25,760	
WØRT .....408	NU4E/R .....22,504	
Hilltopper		Multi-Op
W1QK .....400	N4SVC .....150,903	
	K5QE .....148,736	
	W4VHF .....133,724	
	W3SO .....107,261	
	N8GA .....78,916	



Kyle, KG6BXW, took this "selfie" during his first time Rover run (Photo by Kyle Hamilton, KG6BXW)

First time rover Kyle, KG6BXW/R, shows his rover mobile setup at Vista Point along California's I-5 just south of Patterson, grid locator CM97kk. (Photo by Kyle Hamilton, KG6BXW)

ROVERS & GRIDS OPERATED

AA5PR	.....DM55 DM74 DM75
ABØYM	.....DM78 DM79 DM88 DM89 DN70 DN71 DN80
ACØRA	.....EM59 EM69 EN31 EN32 EN40 EN41 EN42 EN50 EN60
AE5P	.....EM20 EM21 EM22 EM30 EM31 EM32
AE8AT	.....EM79 EN70
AF1R	.....FN32 FN33 FN42 FN43
E27DIX	.....OK02 OK03 OK04 OK05 OK06
K2EZ	.....EM69 EM79 EM89 EM99 EN41 EN50 EN51 EN52 EN60 EN80
	.....EN90 FM09 FM19 FN00
K9ILT & KØPG	.....EN50 EN51 EN60 EN61
K9JK	.....EM59 EM69 EN50 EN51 EN52 EN60 EN61 EN62
KA9VVQ & W9FZ	.....EN24 EN25 EN34 EN35
KC9CSH	.....EM49 EM59 EN40 EN50
KE7MSU	.....CN85 CN86 CN87
KG6BXW	.....CM86 CM87 CM96 CM97
KK4BZ	.....FM08 FM09 FM18 FM19
KT5TE	.....EM20 EM21 EM22 EM30 EM31 EM32
N1SV	.....FN33 FN42 FN43
N2MH	.....EM81 EM82 EM92
N2SLN & KB2YSI	.....FN02 FN11 FN12 FN22 FN23
N6GP	.....DM03 DM04 DM13 DM14
N6RH	.....EM20 EM21 EM22 EM30 EM31 EM32
N8OC	.....EN57 EN67 EN73 EN74 EN75 EN76 EN83
N9GH	.....EN51 EN61
NU4E & W4EEY	.....EM84 EM85
NV4B/R	.....EM51 EM52 EM53 EM61 EM62
RAØLQ	.....KN51 KN52 KN62
VA3ELE	.....EN93 EN94 FN03
VE3OIL	.....FN24 FN25 FN35 FN36 FN46
W1RGA	.....FN32 FN33 FN42 FN43
W3DHJ	.....DM77 DM78 DM87 DM88
W4POT	.....EL99 EM90
WA4JA	.....EM65 EM66
WB2SIH & W2LYN	.....FN21 FN22 FN31 FN32 FN33
WD9HBF	.....EM59 EN40 EN41 EN50 EN51

QSO & GRID LEADERS

6-Meter QSOs		2-Meter QSOs	
K1TO	.....700	HA6W	.....283
K1TEO	.....671	E27AAA	.....223
N4BP	.....645	E27AC	.....216
N4SVC	.....629	E22EEO	.....203
KC4PX	.....612	S56P	.....198
ACØRA/R	.....568	HA8IH	.....183
EA8DBM	.....553	W4VHF	.....142
IT9XTP	.....545	K1TEO	.....130
N4EEB	.....544	E23SGP	.....128
W5PR	.....530	ACØRA/R	.....121
WA4GPM	.....518	DL2OM	.....119
KØSIX	.....503	HS9JGQ	.....114
K2DRH	.....503	9A1I	.....111
K5QE	.....490	HS6LFC	.....105
KU8E	.....486	W1VD	.....103
6-Meter Grids		2-Meter Grids	
ACØRA/R	.....307	ACØRA/R	.....97
EA8DBM	.....280	HA6W	.....73
K1TO	.....203	S56P	.....64
KC4PX	.....198	W4VHF	.....58
W5PR	.....188	HA8IH	.....55
N4SVC	.....183	W1VD	.....54
N4BP	.....176	K5QE	.....53
IT9XTP	.....174	DL2OM	.....49
DL2OM	.....174	W3SO	.....48
K5QE	.....171	K2DRH	.....44
WA4GPM	.....170	N8GA	.....42
K9FA	.....169	K1TEO	.....42
N4EEB	.....165	YO2LSP	.....40
XE2X	.....165	N2NT	.....40
EA6VQ	.....163	4O6BLM	.....38

changes in the rules are anticipated but check the May 2020 edition of CQ magazine and I expect to have the rules for 2020 posted on the CQ VHF website <<http://cqww-vhf.com>> before the end of March. The email robot has been retired so the web uploader on the CQ VHF website will be the only way to submit logs and I believe the bugs that were encountered in 2019 have all been addressed. In addition to the Cabrillo format, an option to submit logs in ADIF format will be available. It still needs some testing to ensure it can produce usable log files, but it is hoped that all will be ready by the time of next year's contest.

Repeating past director Steve's constant plea, if you oper-

ate, please send in a log. Any size log is greatly appreciated. If you need help, please ask. More logs make cross-checking more accurate. Please send digital photos as well.

Thanks to Director Emeritus Steve, N8BJQ, for his support in my first year as director of the contest. Additional thanks to Champ, E21EIC, and Yuri, UT1IC, for their efforts to encourage activity (and log submissions) in their respective countries, Thailand and Ukraine.

Don't forget to check out the CQ WW VHF Contest website <<http://cqww-vhf.com>>. Comments, suggestions, and corrections are always welcome. Quite a bit of the data was entered manually. If you find an error, please let us know.

CLUB COMPETITION

(Minimum of 3 entries required for listing)

UNITED STATES

Club Name	# Entries	Score
SOCIETY OF MIDWEST CONTESTERS	26	678,607
POTOMAC VALLEY RADIO CLUB	47	569,040
FLORIDA CONTEST GROUP	19	440,936
NORTH EAST WEAK SIGNAL GROUP	11	377,770
FLORIDA WEAK SIGNAL SOCIETY	3	272,235
DFW CONTEST GROUP	5	170,169
CAROLINA DX ASSOCIATION	6	163,509
MT AIRY VHF RADIO CLUB	7	161,185
ROCHESTER VHF GROUP	17	138,428
TEXAS DX SOCIETY	4	115,811
NORTHERN LIGHTS RADIO SOCIETY	8	110,981
SOUTH EAST CONTEST CLUB	5	99,488
ARIZONA OUTLAWS CONTEST CLUB	20	91,355
CENTRAL TEXAS DX AND CONTEST CLUB	4	88,766
BADGER CONTESTERS	9	84,773
TENNESSEE CONTEST GROUP	7	78,087
NEW MEXICO VHF SOCIETY	8	75,201
CTRI CONTEST GROUP	3	71,981
MICHIGAN VHF-UHF SOCIETY	3	60,927
FRANKFORD RADIO CLUB	10	57,241
PACIFIC NORTHWEST VHF SOCIETY	23	50,208
MAD RIVER RADIO CLUB	4	40,824
YANKEE CLIPPER CONTEST CLUB	9	39,778
HUDSON VALLEY CONTESTERS AND DXERS	3	37,182

GRAND MESA CONTESTERS OF COLORADO	12	37,111
ALABAMA CONTEST GROUP	5	32,627
THE VILLAGES AMATEUR RADIO CLUB	3	19,835
SOUTHERN CALIFORNIA CONTEST CLUB	6	16,882
NORTHERN CALIFORNIA CONTEST CLUB	7	13,234
MINNESOTA WIRELESS ASSN	4	12,091
NORTH COAST CONTESTERS	3	10,797
METRO DX CLUB	3	9,988
KENTUCKY CONTEST GROUP	3	9,734
BRISTOL (TN/VA) ARC	3	8,528
BERGEN ARA	3	6,578
SILVER COMET AMATEUR RADIO SOCIETY	5	5,953

DX

HA-DX-CLUB	4	137,178
CONTEST CLUB ONTARIO	8	55,562
UKRAINIAN CONTEST CLUB	11	37,822
CONTEST GROUP DU QUEBEC	5	10,863
CROATIAN CONTEST CLUB	3	9,000
RHEIN RUHR DX ASSOCIATION	3	5,340
UKRAINIAN VHF INTERNATIONAL CONTEST CLUB	6	4,707
BAVARIAN CONTEST CLUB	4	3,672
CDR GROUP	7	702
CONTEST CLUB SERBIA	11	486
CABREUVADX	8	438

Number/letter groups after call letters denote the following: Class (A = all band, 6 = 6 meters, 2 = 2 meters, Q = QRP, Q* = QRP portable hilltopper, R = rover, M = multiplier operator), Final Score, Number of QSOs, Number of grid locators, State/Province (USA/Canada only), Grid Locator or Number of grids activated (rover only). Rover scores for USA are listed separately. Scores in bold indicate certificate winners. Score in *italics* are disqualified.

2019 VHF RESULTS NORTH AMERICA

UNITED STATES

K1TEO	A	189,924	801	204	CT	FN31
W1YX	A	62,689	422	139	RI	FN41
AF1T	A	54,981	399	123	NH	FN43
N1JEZ	A	31,720	235	122	VT	FN44
K1KA	A	31,654	252	119	NH	FN42
W1FKF	A	26,676	196	117	NH	FN43
NE1B	A	17,014	169	94	NH	FN42
K1GQ	A	10,125	135	75	NH	FN43
K2KA	A	7,437	106	67	MA	FN42
K1ZK	A	7,259	116	61	VT	FN34
N1API	A	5,406	97	53	CT	FN31
W1FJ	A	3,220	70	46	MA	FN42
W1AN	A	2,806	59	46	CT	FN41
N4NIV	A	1,170	38	30	MA	FN42
K1DVL	A	638	28	22	CT	FN31
K1LMY	A	320	20	16	MA	FN32
W3EP	6	44,250	375	118	CT	FN31
W1RM	6	18,083	169	107	CT	FN31
N2KW	6	9,660	138	70	MA	FN32
WA1KRG	6	6,630	102	65	CT	FN31
Op: W1QK						
K1SX	6	6,486	94	69	MA	FN41
AE1T	6	5,220	87	60	NH	FN43
K1KI	6	2,728	62	44	CT	FN32
KA1J	6	1,862	49	38	CT	FN31
K1YWW	6	1,628	44	37	MA	FN42
KC1GWX	6	702	27	26	MA	FN42
N1ADX	6	667	29	23	MA	FN42
K1AR	6	630	30	21	NH	FN42
N1WRK	6	204	17	12	MA	FN41
W1ZFG	6	130	13	10	CT	FN31
K1MTD	6	120	12	10	CT	FN31
N1CGP	6	100	10	10	ME	FN54
W1GXZ	6	64	8	8	MA	FN42

K1VUT	6	56	8	7	MA	FN41
W1VD	2	11,124	103	54	CT	FN31
K1HC	2	1,116	31	18	ME	FN53
N1PRW	Q	1,305	42	29	MA	FN42
K8CN	Q	88	11	8	NH	FN43
W1QK	H	400	25	16	CT	FN31
W1MR	H	56	6	7	NH	FN43
W1FM	M	8,505	128	63	MA	FN42
Op: W1FM, N1SOH						
N2NT	A	102,784	485	176	NJ	FN20
Op: N2NC						
N2WK	A	31,080	238	120	NY	FN03
N2YB	A	26,300	221	100	NY	FN12
N2SLO	A	24,892	223	98	NY	FN30
N2BEG	A	14,186	153	82	NY	FN12
WA2VNV	A	12,780	121	90	NY	FN30
KA2ENE	A	11,988	139	81	NY	FN13
WA3AFS	A	7,326	101	66	NY	FN32
NA2NY	A	6,732	91	66	NY	FN33
AA2TT	A	6,552	89	56	NY	FN30
K2AMI	A	6,254	90	59	NJ	FN20
K2RMV	A	5,830	85	55	NY	FN20
W2KV	A	3,675	63	49	NJ	FM29
N2RC	A	3,128	57	46	NY	FN21
W9KXI	A	2,993	55	41	NY	FN12
WW2Y	A	2,356	52	38	NJ	FN20
KD2LGX	A	1,952	41	32	NY	FN13
KF2TV	A	1,344	38	32	NY	FN13
W2CCC	A	1,312	39	32	NY	FN23
Op: K2CS						
K3WHD	A	1,080	36	27	NY	FN13
N2NXX	A	952	32	28	NY	FN22
N2RJ	A	920	40	23	NJ	FN21
W2YR	A	667	27	23	NJ	FN20
KQ2N	A	420	23	30	NY	FN23
KC2LYK	A	374	22	17	NJ	FN20
KC2JRO	A	56	7	7	NY	FN30
W2GFA	A	25	5	5	NJ	FN20
K2XA	6	29,232	252	116	NY	FN32
K2SDS	6	26,001	243	107	NJ	FM29
K2SD	6	16,732	178	94	NJ	FM29
K2ZD	6	5,146	83	62	NY	FN21
N200	6	4,158	77	54	NJ	FM29
N2CJ	6	2,242	59	38	NJ	FN30
K2PAL	6	1,836	51	36	NY	FN30
K2EQ	6	1,710	45	38	NY	FN13
K2DH	6	1,395	45	31	NY	FN13

N2SO	6	624	26	24	NY	FN31
W2CVW	6	621	27	23	NJ	FN20
K2HVE	6	567	27	21	NJ	FM29
KV2X	6	437	23	19	NY	FN13
W82KHE	6	169	13	13	NY	FN21
W2UDT	6	49	7	7	NJ	FN20
WA2CHV	6	1	1	1	NY	FN12
NA2X	2	56	7	4	NY	FN13
W2JEK	Q	228	19	12	NJ	FN20
KA2YAA	Q	96	9	6	NY	FN21
KR2AA	Q	81	9	9	NY	FN20
K3ZO	A	67,799	423	151	MD	FM18
W3LL	A	43,820	289	140	MD	FM19
N3HBX	A	33,720	275	120	MD	FM19
KR1ST	A	31,707	241	117	PA	FN21
N3XF	A	9,709	127	73	PA	FN00
K1BZ	A	8,024	114	68	MD	FM19
N3NGE	A	7,424	108	64	PA	FN20
KD3HN	A	6,993	110	63	PA	FM19
W83IGR	A	5,546	76	59	PA	FN10
NA3M	A	3,417	67	51	MD	FM19
KC3BVL	A	2,772	51	42	PA	FM29
N3MWO	A	2,730	55	39	DE	FM29
W3DF	A	2,106	54	39	MD	FM19
K3MD	A	980	35	28	PA	FN10
WA3PTV	A	936	28	26	PA	FM19
N3KUN	A	693	29	21	MD	FM18
NC3Y	A	460	23	20	MD	FM19
W3AVP	A	84	7	6	PA	FN10
K3ISH	6	22,458	197	114	PA	FN21
K3JA	6	6,900	100	69	PA	EN90
W3TA	6	5,016	88	57	PA	FN20
AA3S	6	4,968	92	54	MD	FM19
W3ZGD	6	3,312	69	48	PA	FM19
Op: K3MSB						
K3SWZ	6	2,880	60	48	PA	FN10
K3ZA	6	2,562	61	42	PA	FM29
W3OU	6	1,656	46	36	MD	FM18
N1SZ	6	1,450	50	29	MD	FM19
N3DUE	6	960	40	24	MD	FM19
K3HX	6	868	31	28	PA	FN00
AC3BU	6	620	31	20	MD	FM19
W3IUU	6	304	19	16	MD	FM19
N3TTT	6	144	12	12	DE	FM29
KF3G	6	81	9	9	PA	FM29
W3OH	6	42	6	7	PA	FN20
N3OE	6	15	5	3	MD	FM19

K3FAZ	Q	144	12	12	PA	FN00
W3SO	M	107,261	443	199	PA	FN00
Ops: W3IDT, W3XDX, W3YDZ, WA3TTS, W3BC, W3BXTX						
WA3EKL	M	27,417	199	111	MD	FM19
Ops: WA3EKL, AC3BU, K3LU, KM4ND						
W3RFC	M	6,804	98	63	MD	FM19
Ops: W3RFC, K3OQ, K3S00, WA3OFF						
WA4GPM	A	99,372	532	182	FL	EM90
N3MK	A	74,800	395	170	VA	FM27
N4HB	A	66,240	363	160	VA	FM17
W3IP	A	54,144	319	141	VA	FM19
N4QWZ	A	36,960	235	140	TN	EM66
K2SX	A	35,728	308	116	SC	FM03
KK4MA	A	33,634	246	134	SC	EM92
NG4C	A	27,219	203	129	NC	FM16
KC4NX	A	22,500	220	100	TN	EM75
WB7PMP	A	22,149	195	107	NC	EM95
N4QV	A	19,240	183	104	FL	EL96
N4HB	A	19,170	213	90	FL	EL98
K5VIP	A	16,072	154	98	VA	FM16
K4ZW	A	14,080	159	88	VA	FM18
AJ6T	A	13,114	147	83	AL	EM64
K9IL	A	8,364	123	68	TN	EM56
A14WW	A	8,346	107	78	FL	EL96
KU4WW	A	7,326	111	66	AL	EM64
KS4S	A	7,245	105	69	NC	FM04
W8KHP	A	6,120	88	68	KY	EM79
WN2E	A	4,617	79	57	FL	EM60
N3KN	A	4,292	74	58	VA	EM97
K4LPQ	A	4,160	78	52	TN	EM86
K4LDC	A	3,816	71	53	GA	EM74
K4MY	A	3,640	64	42	GA	EM74
AA4DD	A	3,408	69	48	TN	EM86
WA4LDU	A	2,880	50	48	SC	EM93
K2MK	A	2,016	48	42	FL	EL98
N4YDU	A	1,890	54	35	NC	FM06
W4CWM	A	1,596	42	38	SC	FM03
N4PD	A	1,176	38	28	VA	FM19
K4BSK	A	1,110	36	30	NC	EM95
W4ELI	A	1,092	41	26	GA	EM74
W4EE	A	1,050	35	30	FL	EL98
KA3PCX	A	1,020	34	30	TN	EM15
KT4O	A	960	39	2		

RA3EL	2	84	7	6	KO82
UA6AH	2	72	6	6	KN94
UA3YCX	2	60	6	5	KO73
RJ7M	2	24	4	3	KN97
RW3VM	2	2	1	1	KO94
UA6AX	Q	16	4	2	KN95
RX6APY	H	8	2	2	KN95
FINLAND					
OH6AC	M	1,060	32	20	KP12
Ops: OH6CS, OH6MCM					
FRANCE					
F500K	6	1,900	50	38	IN96
F627	6	272	17	16	JN27
F6CZV/P	6	64	8	8	IN77
F4GFT	6	1	1	1	JN18
F0FEK/P	Q	280	14	10	JN19
F500K	6	1,900	50	38	IN96
F6FTB	6	272	17	16	JN27
F6CZV/P	6	64	8	8	IN77
F4GFT	6	1	1	1	JN18
F0FEK/P	Q	280	14	10	JN19
GERMANY					
DL20M	A	129,117	460	223	JO30
DH6DAO	A	2,214	51	41	JO41
DJ6TB	A	1,584	42	33	JN67
DK2OY	6	1,776	48	37	JO44
DL5YM	6	918	34	27	JO72
DL6RBH	6	195	15	13	JN69
DK2LO	6	117	13	9	JO43
DL4XU	6	30	6	5	JO53
DL1DBR	2	2,208	48	23	JO41
DL4SZB	Q	462	22	21	JO63
GREECE					
SV3RPQ	6	10,730	145	74	KM18
SV2HJV	6	528	24	22	KN10
SV1NJX	6	25	5	5	KM18
IU2GID/SV8	6	1	1	1	KM37
J48KEF	M	21,012	193	103	KM08
Ops: SV0FM, SV8CKJ, SV8SVI					
HUNGARY					
HA8EV	A	120	10	8	KN06
HA3HX	6	4,592	82	56	JN86
HA7RF	6	440	22	20	JN97
HA8IH	2	20,130	183	55	KN06
HA5JX	2	234	13	9	JN97
HA5BA	Q	80	10	8	JN96
HA1ZH	H	7,222	96	46	JN86
HA2VR	H	6,630	83	51	JN87
HA6W	M	123,246	455	167	KN08
Ops: HA0LC, HA0LZ, HA0MK, HA0LO, HA0MP, HA6WX, HA6ZFA, HA5OKU					
ITALY					
IK7LMX	A	24,552	188	124	JN80
IHYMC	A	12,960	138	90	JM56
IW1CHX	A	2,107	49	43	JN35
IZ40SH	A	1,334	37	29	JN54
IT9XTP	6	94,830	545	174	JM68
IT9BDM	6	36,096	282	128	JM77
IZ5EME	6	15,768	146	108	JN52
IT9CKA	6	5,340	89	60	JM68
IU5ICR	6	2,193	51	43	JN53
I4LCK	6	1,692	47	36	JN54
I4JEE	6	1,505	43	35	JN54
IW1DQS	6	36	6	6	JN35
IT9JGX	2	8	2	2	JM67
IZ8WGU	Q	8,932	116	77	JM68
IZ2JNN/IN3	H	1,620	54	15	JN55
IR9K	M	107,300	492	185	JM67
Ops: IT9DSZ, IT9KXK, IT9YMM, IT9HLC, IT9A00, IT9WDC					
KALINGRAD					
R2FI	2	234	13	9	KO04
UA2FL	Q	98	7	7	KO04
LATVIA					
YL2LW	A	306	18	17	KO26
YL3AME	6	4	2	2	KO06
LITHUANIA					
LY1R	6	2,288	52	44	KO14
LY5W	6	1,598	47	34	KO15
LY3BRA	6	56	8	7	KO14
LY2BBF	2	200	10	10	KO24
LUXEMBOURG					
LX/G1TPA	Q	572	26	22	JO30
MONTENEGRO					
406BLM	M	38,220	211	140	JN92
Ops: 406ZD, 405JD					
NETHERLANDS					
PA5WT	6	4,408	76	58	JO22
PA0B	6	3,196	68	47	JO33
PA2REH	6	306	18	17	JO22
PE2VAV	2	32	4	4	JO32
PA0FEI	Q	25	5	5	JO33
NORTH MACEDONIA					
Z32KF	6	3,234	66	49	KN01
Z33B	Q	690	30	23	KN01
POLAND					
SQ2EEQ	A	476	22	17	JO94
SP8SN	A	91	7	7	KO11
SP3UR	6	1,512	42	36	JO92
SP9EMI	6	256	16	16	JO90
SQ9LPO	6	56	8	7	JN99
SP2HHX	2	60	6	5	JO94

SP6LUV	Q	888	37	12	JO90
SQ9KPA	Q	105	9	7	JO90
SO7M	M	1,554	37	21	KO00
Ops: SP8SIW					
PORTUGAL					
CT7ABP	A	6,200	91	62	IM58
CT7AIX	A	121	11	11	IM59
CT10IZ	6	23,343	251	93	IM58
CT7AUP	6	675	27	25	IM58
ROMANIA					
YO5DAS	A	3,550	62	50	KN17
YO7FWS	A	1,968	41	24	KN24
YO2GL	A	1,271	36	31	KN05
YO5BRE	A	782	25	23	KN07
YO7LXB	6	8,249	113	73	KN15
YO7CJB	6	4,611	87	53	KN15
YO6A	6	1,290	43	30	KN25
Op: YO6BHN					
YO2LSP	2	5,920	74	40	KN05
YO8CLN	2	660	22	15	KN27
YO9CW/P	2	468	18	13	KN35
YO9AYN/P	2	18	3	3	KN24
YO8SSB	Q	4,800	100	48	KN27
YO8DHA	Q	330	22	15	KN36
YO3GNF	Q	240	16	15	KN34
YO6KNE	M	2,916	54	27	KN26
Ops: YO6DOY, YO6PNV, YO6CFB					
SARDINIA					
IS0BSR	6	31,702	242	131	JN40
SERBIA					
YU1ML	A	56	7	4	KN02
YU5T	A	16	4	2	KN12
YU1ANO	6	16	4	4	KN04
YT0I	Q	88	11	4	KN03
YT1BOB	Q	64	8	4	KN03
YT1ML	Q	30	5	3	KN02
YU3VIP	H	60	10	3	KN02
YU4RED	H	48	8	3	KN02
YU4GPS	H	30	5	3	KN02
YU4PPG	H	24	4	3	KN02
YT5L	M	40	10	2	KN13
Ops: YU4IKA, YU4YES					
YU1HFG	M	30	5	3	KN02
Ops: YU4JAN, YU4MOM					
SLOVAK REPUBLIC					
OM3CW	6	868	31	28	JN88
OM3CM	6	169	13	13	JN88
OM0ATR	2	2	1	1	KN09
OM3KHT	H	1,200	38	16	JN99
SLOVENIA					
S52F	6	15,652	172	91	JN76
S56P	2	25,344	198	64	JN76
SPAIN					
EA1HRR	A	5,888	84	64	IN83
EA2BFM	A	425	22	17	IN83
EA3FZT	6	15,531	167	93	JN01
EA5CH	6	7,119	113	63	IM08
EA1DHB	6	5,454	101	54	IN82
EA4CU	6	1,305	45	29	IN80
EA3ELZ	6	650	26	25	JN01
EA3GYE/P	Q	20	4	4	JN12
SWITZERLAND					
HB9CAT	A	5,472	75	57	JN47
UKRAINE					
UW6SM	A	22,500	185	100	KN28
UY5OZ	A	1,131	36	29	KN77
UT1KY/P	A	680	26	20	KO20
UX5UN	A	80	10	8	KO50
UX2QL	A	20	4	5	KN87
UX0FF	6	30,756	233	132	KN45
UT4XU	6	11,616	121	96	KO40
UR7EU	6	6,336	99	64	KN78
US8ZAL	6	5,187	91	57	KN66
UW7LL	6	3,408	71	48	KN79
US0KW	6	2,451	57	43	KO30
UV7E	6	1,728	48	36	KN77
UR5FA	6	580	29	20	KN56
UT7UA/P	6	475	25	19	KO20
UR5ECW	6	99	11	9	KN78
US8AR	2	4,440	60	37	KO60
US4IEK	2	2,688	56	24	KN87
UT8LE	2	1,800	36	25	KN79
UT8IK	2	972	27	18	KN87
UT9UR	2	840	21	20	KO40
UX0QQ	2	792	33	12	KN87
UR4LSK	2	480	16	15	KO80
UR7IM	2	396	18	11	KN88
UV8IF	2	154	11	7	KN88
UR7OD0	2	80	8	5	KN77
US0YA	Q	2,419	58	41	KN28
UT5VD	Q	950	28	25	KN68
UY5ON	Q	832	28	26	KN89
UR2Y	Q	690	30	23	KN27
Op: US0YW					
UT5ECZ	Q	644	28	23	KN68
UY2RA	Q	108	9	6	KO51
UR8QE	Q	90	9	5	KN77
UW5EGT	Q	40	5	4	KN67
US2FR	Q	30	5	3	KN88
UR3QTN	Q	8	4	1	KN77
UR7QDU	Q	6	3	1	KN77
UR7QDV	Q	6	3	1	KN77
UT1IC	H	1,392	41	24	KN87
UR3INH	H	9	2	3	KN98
UT7E	M	4,628	81	52	KN78
Ops: UT4EO, UR3EZ, UR5EFJ					

OCEANIA					
EAST MALAYSIA					
9W6AJA	Q	80	10	4	QJ75
9W6CTU	Q	10	5	1	QJ75
9W6FJM	Q	10	5	1	QJ75
9W6GEO	Q	8	4	1	QJ75
9W6MOZ	Q	8	4	1	QJ75
9W6MM	Q	6	3	1	QJ75
9W6NSP	Q	6	3	1	QJ75
9W6WOT	Q	6	3	1	QJ75
SOUTH AMERICA					
ARGENTINA					
LU9DO	A	10	3	2	GF05
BRAZIL					
PU2KOB	A	156	13	6	GG56
PU2GTA	A	52	8	4	GG66
PU2REC	A	42	9	3	GG76
PU2DMZ	A	36	5	4	GG56
PU2OXB	A	4	1	2	GG56
PV8DX	6	567	27	21	FJ92
PU2NZO	2	42	9	3	GG76
ZY2R	2	24	6	2	GG66
Op: PY2SFA					
PT9BM	2	18	3	3	GG52
PP5ZCX	2	16	4	2	GG52

PU20XU	2	10	5	1	GG66
PU5LTI	2	2	1	1	GG52
PU9DCB	2	2	1	1	GG27
PY2DPM	2	2	1	1	GG66
PY2MIA	2	2	1	1	GG66
PU2LFU	Q	68	11	4	GG76
PU2USK	Q	60	10	4	GG76
PU2MBY	Q	18	3	3	GG47
PP5ZT	Q	2	1	1	GG52
PU2XMY	Q	2	2	1	GG66
PY2ANY	M	576	34	9	GG66
Ops: PY2ANY, PY2MIG, PY2LCD					
ZW5B	M	50	6	5	GG54
Ops: PU2TIB, PY5CC					
TRINIDAD & TOBAGO					
9Y4D	6	3,290	70	47	FK90
9Z4DZ	6	400	25	16	FK90
VENEZUELA					
4M6R	A	11,440	138	80	FJ78
YY8VHF	A	27	5	3	Op: YV6CR
FK60					
CHECK LOGS					
AK2L, HA1ZH, HA7LW, K0ZX, K11M, K99FO, OK4FF, RA6DE, SP3UR, UR5WCE, VE3ZY, VE7AFZ, Y09HP					

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