# Results of the 2009 CQ WW VHF Contest

### BY JOHN LINDHOLM,\* W1XX

two-band VHF contest such as the CQ WW VHF Contest always sits on the edge of a precipice of poor conditions. For many, if not most participants, the 2009 contest fell over the edge. What's a reporter to do when the contest he's reviewing was not up to par by most standards? For openers, he can focus on a few brief gems of brightness such as: "It was a fun contest even though it got off to a slow start on dead bands. But 6 meters opened up on Sunday, adding to the excitement." . . K4RW. Or: "My first VHF contest in 45 years of hamming. What a thrill to work NP4A in Puerto Rico on Sunday morning.' ... K8EG. CQ VHF Contest stalwart, KG6IYN, can offer a U.S. West Coast positive outlook with: "Conditions this year from Mt. Los Pinos in east San Diego county were much like 2007 with short band openings on 6 meters to the Pacific Northwest and then on Sunday a relatively long run to Texas, Louisiana, and the Gulf region. This was followed by Qs with several rovers heading north into northern California and a rover duo heading back home to California from Las Vegas through several grid squares otherwise dead."

Perhaps the DX can offer some solace as well: "Some single-hop DX on 6 meters was welcomed." . . . . GØLGS. Or: "My best new grid square was ZC4LI, country #77." . . . SM6WET. Meanwhile, GW8ZRE took advantage of the simultaneous RSGB backpackers contest in the U.K. Also combining activities were HA4BF, HA5CQZ, HA6VV, HA7UL, and OE1CWA, who took advantage of the Summits On The Air (SOTA) program to work the contest. More bright spots are highlighted in the "Scatter" comments. Thus, all things considered, it was far from a dreadful contest.

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#### **Expanded CQ WW VHF Contest Results**

For a listing of the ops and grids activated by the rover stations in the 2009 contest, plus the operators of the multi stations, go to <a href="https://www.cq-amateur-radio.com">www.cq-amateur-radio.com</a>, to the Contests section, to "Expanded Results of the 2009 CQ WW VHF Contest."

As faithful followers of the CQ VHF WW Contest know, these results usually focus on the inane ramblings of the Contest Quahogs of Rhode Island (CQRI). They are a crotchety bunch. At the fall meeting at the local Grange hall, CQRI dismissed the usual aftermath discussion of the contest with a motion to table, which passed unanimously (with one abstention by the Old Timer). It was a sad commentary on the 2009 contest as perceived in Quahog-city. The saddest part is it leaves this reporter with no thread on which to proceed with this commentary.

The only solution to this predicament seems to be to resort to a *deus ex machina*—a sort of "Wag The Dog"—to redirect attention to an important contest subject, namely recruitment. So here goes.



The CQ WW VHF Contest has become very popular in the Ukraine. This large group of UT hams gathered in Donetsk City on June 13, prior to the 2009 contest, to receive their 2008 certificates and plan for the 2009 contest. CQ VHF Contest activity is spearheaded by coordinator Yuri Yakovenko, UT1IC.

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The VHF roving bug can even bite HF contesters and DXers. Shown here is John, K4BAI/PJ4A, who operated with KU8E from the state park on St. George Island, FL (IOTA NA-085). John shows it doesn't take much to slap together a rover station for the CQ VHF Contest.

EmComm: Let's first look at a red, white, and blue phenomenon. At first blush, it may be hard to draw any parallel between emergency communications (EmComm) and VHF contest operating. The common denominator is operating skill and experience. This reporter is active in EmComm activities and notes that many newcomers and even many licensed decades ago are finding a welcome mat at the door of the local Red Cross or Emergency

Management Agency (EMA). The 21st century demise of traditional 2-meter FM repeater chit-chat has left a vacuum to be filled by the more important EmComm needs. This has also attracted many newcomers to the hobby. What better way to learn good operating technique than in a contest? Good contest operators make good emergency communicators in drills, nets, and the real thing. Since EmComm is conducted on the local level, channelized 2-meter FM is the band/mode of choice. It's not a big stretch to use these radios on simplex to call "CQ Contest." It will take an Elmer to do the job. How about you?

The CTRI Contest Group has done this with its sponsorship the past two years of the very local "Ocean State 2-Meter FM Simplex Challenge," conducted simultaneously with the CQ VHF Contest. Success was modest in 2009, but over 40 stations in the Rhode Island environs were reported active—some crossing over to the "big" fray. For ideas that can be adapted to your local situation, details such as rules, log sheets, past reports, etc., can be obtained with an e-mail request to me. The relationship between EmComm and contesting can be symbiotic.

Rip Van Winkle Effect: How many of you have had an extended hiatus from ham radio to raise a family, have lost interest, have a lack of real estate, etc., etc., only to wake up from a radiofree slumber? There is a wealth of retreads out there who have rediscovered today's sophisticated radios and that you no longer need to be an electrical engineer to be QRV on 6 or 2 meters. These are potential VHF contesters that may need your encouragement.

Rover-mania: Rovers are a great vehicle (catch the pun?) for creating your own conditions. On a dead band they still dispense more Qs and often rare locators. How did they do in last July's contest? In the U.S., rover contacts were up 25% with a 52% increase in the number of rover stations. Rovers were also active in Canada and the Ukraine, and eight entered the contest from Thailand (see sidebar). For those in the U.S. living under restric-

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## TOP SCORES WORLD

110.	(LD								
All Band	HA5AZC/P1,088								
OK1DOL32,627	,								
	QRP								
OK1DC15,872									
VE1SKY13,500	HA6VV/P4,760								
	EB1EHO2,992								
6 Meters	RU3GX1,440								
E70T32,940	FØFEK1,216								
EI9FBB18,090	RU6YY1,054								
	KUU111,054								
VE3NNQ16,240	_								
C4M15,456	Rover								
	E22YS20,944								
2 Meters	VE3CRU13,072								
HS2ZMU7,618	E22HMR7,056								
HS4DDQ4,720	HS2WPJ6,930								
H34DDQ4,720	HS2VVPJ								
UW5W3,300	HS9WQE5,280								
YU2DX3,000	US3ITU4,692								
Hilltopper	Multi-Op								
HA2VR/P3,550	OK1KIM150,535								
HA2UL/P2,992	LIP7D 406 005								
HAZUL/F2,992	UR7D106,095								
HS8GLR/P2,208	UV6I11,040								
HA4BF/P1,620	HS1AXC9,600								
G8HXE/P1,482	HS3QCT8,200								
HA5CQZ/P1,260	•								
US	SA								
All Band	W3RGA1,134								
K2DRH 104.470	\/\1∩K 1 118								
K2DRH104,470	W1QK1,118								
K1TEO85,684	W1QK1,118 K1ZE1,095								
K1TEO85,684 WA2FGK64,148	K1ZE1,095								
K1TEO85,684 WA2FGK64,148 W4RX44,239	K1ZE1,095								
K1TEO85,684 WA2FGK64,148	K1ZE1,095								
K1TEO85,684 WA2FGK64,148 W4RX44,239 W2DAN29,670	QRP KA1LMR11,650								
K1TEO85,684 WA2FGK64,148 W4RX44,239 W2DAN29,670 W3EP29,580	QRP KA1LMR1,650 WB2SIH9,231								
K1TEO85,684 WA2FGK64,148 W4RX44,239 W2DAN29,670 W3EP29,580 N8RA25,704	QRP KA1LMR11,650 WB2SIH9,231 K9AKS7,920								
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K1TEO85,684 WA2FGK64,148 W4RX44,239 W2DAN29,670 W3EP29,580 N8RA25,704 W4WA21,758 KG6IYN21,540	QRP KA1LMR11,650 WB2SIH9,231 K9AKS7,920								
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K1TEO85,684 WA2FGK64,148 W4RX44,239 W2DAN29,670 W3EP29,580 N8RA25,704 W4WA21,758 KG6IYN21,540 K3OO20,930 <b>6 Meters</b> K1TOL61,770	QRP KA1LMR11,650 WB2SIH9,231 K9AKS7,920 N8XA6,500 KO9A4,050  Rover WB3BEL33,553 WB8BZK28,684								
K1TEO	R1ZE1,095  QRP  KA1LMR11,650  WB2SIH9,231  K9AKS7,920  N8XA6,500  KO9A4,050  Rover  WB3BEL33,553  WB8BZK28,684  N9WU27,612								
K1TEO	QRP         KA1LMR								
K1TEO	QRP KA1LMR11,650 WB2SIH9,231 K9AKS7,920 N8XA6,500 KO9A4,050  Rover WB3BEL33,553 WB8BZK28,684 N9WU27,612 K5RNT20,516 K1DS20,262								
K1TEO85,684 WA2FGK64,148 W4RX44,239 W2DAN29,670 W3EP29,580 N8RA25,704 W4WA21,758 KG6IYN21,540 K3OO20,930  6 Meters K1TOL61,770 W2MMD15,872 N4BP10,024 N4CW/18,296 W5WVO7,638	R1ZE								
K1TEO85,684 WA2FGK64,148 W4RX44,239 W2DAN29,670 W3EP29,580 N8RA25,704 W4WA21,758 KG6IYN21,540 K3OO20,930  6 Meters K1TOL61,770 W2MMD15,872 N4BP10,024 N4CW/18,296 W5WVO7,638 W4MAY7,285	R1ZE								
K1TEO85,684 WA2FGK64,148 W4RX44,239 W2DAN29,670 W3EP29,580 N8RA25,704 W4WA21,758 KG6IYN21,540 K3OO20,930  6 Meters K1TOL61,770 W2MMD15,872 N4BP10,024 N4CW/18,296 W5WVO7,638 W4MAY7,285	R1ZE								
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K1TEO	R1ZE								
K1TEO	R1ZE								
K1TEO	R1ZE1,095  QRP  KA1LMR11,650  WB2SIH9,231  K9AKS7,920  N8XA6,500  KO9A4,050  Rover  WB3BEL33,553  WB8BZK28,684  N9WU27,612  K5RNT20,516  K1DS20,262  AE5P16,376  W4VHF15,714  AE5BN12,874  WAØVPJ11,592  Multi-Op								
K1TEO	R1ZE								
K1TEO	R1ZE1,095  QRP  KA1LMR11,650  WB2SIH9,231  K9AKS7,920  N8XA6,500  KO9A4,050  Rover  WB3BEL33,553  WB8BZK28,684  N9WU27,612  K5RNT20,516  K1DS20,262  AE5P16,376  W4VHF15,714  AE5BN12,874  WAØVPJ11,592  Multi-Op								
K1TEO	R1ZE								
K1TEO	R1ZE								
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K1TEO	R1ZE								
K1TEO	R1ZE								

tive covenants, what a great way to have contesting fun. For the CQ VHF Contest, a two-band rover station doesn't have to look like it's ready to traverse the moon's landscape. Longtime HF contester John, K4BAI, shows how it's done from a conventional sedan (see photo). Likewise, single-band QRP rover station E22YS, assisted by E22YT, posted the top allaround score from Thailand with 374 QSOs from six LOC (see photo in sidebar). Even your esteemed reporter had a blast "going rove" in the aforementioned Ocean State Challenge. Conclusion: If your home QTH has serious limitations, consider operating in the rover class. It's not hard to do.

DX Coordinators: Coordination of DX

activity by country has had a dramatic effect on DX participation. The concept involves an individual in each country or region promoting activity in the contest from announcements in print, on websites, and on reflectors to post contest submission of logs. The template has been Champ, E21EIC, whose efforts in Thailand are legendary (see photo in sidebar). That approach has been duplicated with great success by Yuri Yakovenko, UT1IC, in the Ukraine. His boundless energy resulted in 68 UT log submissions (see photo). Yuri's enthusiasm has been contagious across the border into Russia

where Vlad, RA6HLF (with Cabrillo e-logs from Victor, UA6EM), coordinated activity resulting in 27 log submissions. With urging from Flavio, PY2ZX, South American contest activity in Brazil and Argentina has been launched. It's a formula for success that brings more stations into VHF contesting. In the U.S. and Canada it could be adapted on a lesser scale within individual clubs, which segues nicely to this: Since most logs already specify club credit, a club competition will be initiated for the 2010 contest. Thus, individual clubs would do well to promote intra-club activity. It's a win-win situation for everyone.

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### **Contest Highlights**

Despite the overall flat conditions experienced by most, there were many positive occurrences:

- In the U.S., K1WHS came back from winning two years ago to recapture 1st place multi.
- K2DRH, K1TOL, KA1LMR, and WB3BEL repeated victories in their respective categories.
- OK1KIM was again the high DX multi score, but not without a strong challenge from UR7D with 2-meter QSOs making the difference.
- E70T, VE3NNQ, and EI9FBB all topped 200 QSOs in the SOSB6 (single op single band 6 meters) category.
- DX participation was up 14% over 2008.
- In Thailand, the CQ WW VHF Contest is *the* contesting event of the year.
- The Ukraine topped all DX countries with number of logs submitted.
- With just 2 watts, M1DUD worked LA9Z in rare grid square JO38.
- •KX9X operating portable made 101 Qs from rare northeast U.S. grid FN45.
- OK1DOL put in a nice score from EU with 32K points.
- Welcome to these first timers in the contest: 9A7T, DJ6TK, G3TXF, HS4NOR, K5WPN, K6WSC, and no doubt more.

#### It's a Wrap

ZC4LI is one of the most consistent contesters on the planet—both HF and VHF. The nice thing about Steve is that he never forgets to pass along his "thanks to all concerned in running the contest." Thanks to you, Steve, for all the Qs, but there are kudos to give in running this worldwide contest.

Foremost among them is Steve, N8BJQ, a world-class contester himself who produces all the scores and statistics from the log-checking program. Trey, N5KO, makes sure the submissions robot is well oiled. Jon, K9JK, again converted the paper logs to e-submissions using the WA7BNM CabForms. We receive many logs utilizing this on-line post entry service thanks to Bruce. Certificates from the 2008 contest were produced by K9JK and mailed prior to the 2009 contest. Curt, K9AKS, updates all the records for posting on the contest website (www.cqwwvhf.com). We welcome Ed, W1PN, who now does the updates on the website. Gail, K2RED, at CQ, somehow gets all this into print for all to see. Thanks to all. It's a great crew.

Thanks especially to the 594 station operators who submitted logs, up 12% from the previous year. More stats: total number of stations active was 9444; total of 41,767 QSOs claimed; total number of grids activated 873. This represents an overall activity increase of 4% over 2008—even with sluggish conditions.

With 100% of received logs checked, the following error rates were evidenced: invalid or "not in log" 1.5%; "busted calls" 1.2%; dupes claimed as valid 0.3%; overall error rate 3.2%. This is an overall 11% improvement in log keeping over the year previous. This is truly outstanding operating shown by contest participants!

We look ahead to the second decade of the CQ WW VHF Contest, July 17–18, 2010, when we will do it all over again. The full announcement will appear in the June issue of CQ, on the CQ website (www.cq-amateur-radio.com), and on the CQ WW VHF Contest website (www. cqww-vhf.com). A multi-lingual summary of the rules also will appear on many DX contesting websites.

A nice close to these proceedings is offered by N1BCL, who noted in his log: "The gods of propagation do not always

smile on us, but fun is always available to all." With that, it's a wrap. See you all in the 2010 contest.

73, John, W1XX

### Scatter

No real activity here but managed 53 QSOs. Pleased to take part. Have entered as M3RCV in the past ... 2EØRCV. Conditions weren't very good, but the FT-450 sure makes a nice roving radio for 6 meters ... AA5JG. I operated from Mt. Kearsarge, NH, in FN43 alongside N1JHJ who operated a separate station. We managed to catch some 6-meter E-skip ... AF1T. I really enjoyed this contest. Congratulations to E22YS who showed true ham spirit in operating rover station. I will join next year's contest for sure and operate as a rover. Thanks for organizing this great event ... E22KNY. Only managed one quick E-skip contact but highlight was working several other rovers and having two beautiful days of sunshine and clear weath-

#### The 2009 CQ WW VHF Contest in Thailand

By Champ C. Muangamphun, E21EIC

Each year after the results of the previous year's CQ WW VHF Contest are announced, awards are presented to the Thailand winners at a national gathering. New hams are encouraged to participate through the University Amateur Radio Club system where they are "Elmered" by senior hams. An official website created by Jaycie, E20NKB, provides all the details of the next CQ VHF Contest event. Thus, many newer hams are QRV for it.

In 2009 the rover class especially grew in popularity. YL op Chu, E22YS, loaded up her car with equipment and homebrew antenna to make a good score. Also operating rover with homebrew antennas were HS1KZH, HS8JYX, and HS9WQE. The true spirit of VHF contesting was exemplified by Thiti, HS8VZW, who, despite a handicap, operated his three-wheel motorcycle as a rover in the contest.

Thanks to HS8KGG who assisted in keyboarding the many paper logs to Cabrillo-formatted e-log entries.

73 from Thailand, where VHF contesting is alive and well!



Rover E22YS.



Hilltopper E20YLM/P.



Multi-op E22KNY.

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#### QSO LEADERS BY BAND WORLD

Single-C	)p								
50 MH:	Z	Multi-Op							
E70T	270	50 MH	lz						
VE3NNQ	203	UR7D	187						
EI9FBB	201	OK1KIM	151						
VE1SKY	178								
C4M	161	144 MI	Ηz						
		HS1AXC	480						
144 MH	z	E21LXK	414						
HS4DDQ	295	HS3QCT	410						
HS2ZMU	293	OK1KIM	392						
HS8LUR	284	E29KRM	373						
HS8TAB	282	HS1EFA	338						
E22HUV	232								

#### USA

	U,	<b>5</b> 7	
Single-C 50 MH		Multi- 50 Mi	•
K1TOL	435	K1WHS	485
K1TEO	313	KB1DFB	341
K2DRH	302	KA2LIM	272
WA2FGK	283	W3SO	218
W3EP	278	W4MW	213
W2DAN	263	K5QE	171
W2MMD	248	K4SME	167
W4RX	219	NE1B	154
144 MH	z	144 M	lHz
K1TEO	189	K5QE	213
K2DRH	186	W4MW	183
W4RX	157	KA2LIM	167
WA2FGK	135	W3SO	162
KA3ZLS	101	K1WHS	154
		KB1DFB	140

er ... K1DS. Sunday morning I worked VE1SKY in FN74 then the band opened to New England for a couple of hours. Then I worked WA4PGM who sent FM72 which seemed odd. Then I heard him sign VP9/WA4PGM. Woo-hoo! ... K1LT (in Ohio). First time trying the Hilltopper category. I pared down and went with a simple rig, portable antennas, Armstrong rotation, and paper logs. Mistake! What I thought was simple turned out needing brain surgery precision to set up in the wind on top of a hill ... K2QO. First time working this contest and first time roving. From EM73 atop Pine Mtn., GA, on Sunday there was very little 6-meter Es, but lots of longdistance ground wave. Heard K1TOL and K1WHS off and on for most of the 18 hours I was on, but never worked them ... K4ESA. Fun contest as usual. Activated rare grid DN02, Lake County, OR, same as last year. 6-meter propagation was not as good as last year ... KB7ME. A few dozen new calls in the WI and IL area really helped. The local and semi-local activity was really needed because prop was mostly flat. Very enjoyable CQ WW VHF Contest from EN63ao ... KC9BQA. It was a fun contest and I'm looking forward to doing it again. Mike, NØEXE, and I made it a camping trip and set up on top of Decorah Peak in EN44. Most of the time we were at 1W powered by a gel cell and solar panel, as we were limited to what we could carry over the rough terrain. Still, it was fun ... KC9ECI. Conditions were spotty, but there were a couple of double-hop openings to the East Coast and Midwest ... KI7JA. Just a last-minute opening to NA here in the US Virgin Islands working only W4WA who was loud ... KP2DX. Operated Hilltopper on a hill near El Dorado, KS Sunday morning with some Es to Montana and Washington. KB7ME was

the best DX ... NØJK. Great weather and a lot of fun. A short-lived 6-meter opening to the Midwest on Sunday morning made things a little exciting for a while ... N1KPW/R. Very few contacts overall but still one of the most enjoyable VHF contests. Keep up the great work! ... N1LF/R. Es for only two hours Sunday morning, working six skip grids mostly in Florida plus the mostly water grid FM02. Since there was so little action on 6, I had my best 2-meter score and the chance to chat with lots of friends and other contest ops ... N3UM. It's fun just being back on 6 after being off for over 55 years ... N4PN. My first rover operation ... VE2PIJ. Glad there were several 6-meter Es openings on Sunday ... WØETT. I operated from home and got into a very good E-skip opening to Florida on Sunday. I really enjoyed the contest ... W1MKY. Even though conditions were flat, our new locations, strategies, and planning resulted in a significant improvement overall. It was win-win, as the food was great at the new diners we got to explore! ... W3BC/R. Thanks to the rovers who helped out ... W2UDT. Operated Hilltopper in FN10kr at 2100 feet with a single loop for each band. Only DX was VO1KVT ... W3RGA. There was no really good 6-meter opening, just some Caribbean, Florida, and Midwest short openings. On 2 meters we got as far west as Indiana. Once again, thanks to the rovers ... W3SO. Saturday was a complete skunk here in New Mexico but Sunday morning produced a good opening to the Midwest and double hop to New England and the Canadian Maritimes ... W5WVO. I did some EME during the night and picked up some nice grids in Europe. Right before the end of the contest, I went to the low end on 50.095 MHz, called CQ, and worked CT1HZE and CN8KD with a minute to spare. Don't ever quit! ... WA2FGK. The band opened up late Sunday morning and we managed to get a moderate run going on CW ... WB2AMU. This contest is always a lot of fun. When roving you always get a chance to explain ham radio. I met K2RAY and his son on the Skyline Drive. CT1HZE called me right near the end of the contest ... WB3BEL.

# GRID MULTIPLIER LEADERS BY BAND WORLD

Single-Op	YU2DX25								
50 MHz									
E70T1	22	Multi-Op							
C4M	.96	50 MHz							
EI9FBB	.90	UR7D105							
		OK1KIM78							
144 MHz									
OK1DOL	.47	144 MHz							
UW5W	.30	OK1KIM83							
HA6VV/P	.28	UR7D60							
EA2TO/1	.25								
USA									

EA2TO/125										
USA										
Single-Op 50 MHz		Multi-Op 50 MHz								
K1TOL	142	K1WHS133								
K2DRH	100	KB1DFB103								
W3EP	97									
K1TEO	89	144 MHz								
W2DAN	78	K5QE90								
		W3SO47								
144 MHz		KA2LIM46								
K2DRH	55	W4MW28								
WA2FGK	50	K1WHS27								

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Number/letter groups after call letters denote the follow-ing: Class (A = all band, 6 = 6 meters, 2 = 2 meters, Q = QRP, O\* = QRP portable hilltopper, R = rover. M = multi-operator), Final Score, Number of QSOs, Number of grid locators, State/Province (USA/Canada only), Crid Locator or Number of grids activated (rover only). Rover scores for USA are listed separately. Certificate winners are listed in boldface. 376 207 175 157 143 CANADA 0 179 0 110 W4RX 44,239 21,758 14,756 10,716 AD7ND 21 88 20 DM33 VA GA TN VA NC W4WA N4QWZ W4MYA KØVIZ N7AT VE1SKY VA2WDQ VE3KZ FM84 11 5 OR AZ CN85 ON OC OC ON ON NB NL AB ON ON ON ON EM66 FM07 EM85 DM43 (Op: K8IA) DM35 Q 5,850 2,904 FN35 FN03 50 33 32 26 35 30 26 18 K4QI W7RV M 4,048 75 46 ΑZ VF2.JCW 2.144 10,620 FN35 NC EM85
VA FM16
FL EL86
SC EM92
NC FM06
FL EL96
VA EM86
TN EM86
VA FM18
TN EM55
(Op: Al4DB)
VA FM07
TN FM75 FN35 DO33 FN15 FN35 KN4SM 2,106 1,785 1,710 1,144 115 119 VE2HAY NSLL 6,681 KRCC 13 440 167 FN82 MI MI OH OH MI OH MI OH MI OH MI OH MI OH N8LIQ K8MR WN8R ENS2 ENS6 EN91 EN91 7,750 7,392 4,704 VASKA VE2DC 90 116 90 59 66 48 30 26 25 11 W4B0 N8PR 2009 VHF RESULTS VA2BN FN36 NJ2F K4FJW 2,322 2,064 WZ8T EN72 EM79 VA2BS/P 522 190 FN36 3,026 2,000 NORTH AMERICA KB8DDZ VE3RCN FN03 16,240 8,122 2,940 1,989 684 23 19 23 VE3NNQ VE9ZX VO1KVT VE9MY FN14 FN65 GN29 FN75 UNITED STATES WA40YK 702 KG97 1.404 FN90 203 131 84 51 36 9 14 30 15 78 80 62 35 39 19 K1TEO W2DAN W3EP N8RA 85,684 29,670 29,580 25,704 FN31 FN41 FN31 FN31 502 304 284 232 K4FTO K8DXR 836 594 256 165 140 138 FN90 AD8I WB2DFC WA8WV EN90 EN82 EN91 EM98 WF4Q 1,127 W4PK 651 GN29 VO1DJT 72 308 484 264 5,247 K1IIG 21,016 226 171 204 156 120 139 FN31 KS4X W8KHP 608 561 528 525 468 351 315 31 33 TN KYYAA GAALOT TINA COLON TINC FILLE GATN FINCTINC AL AA FIAL GAAVELS COLON KYEEFE VACHER GACKY EM75 NX8G EN90 EN82 VE6CPP VA3XQ DN39 EN93 EN92 FN03 K1TR 14,807 13,338 FN42 EM79 W8RU 11 11 11 53 NH CT VT MA RI 16 17 11 15 13 13 15 14 VE3TLT VE3HHT VE3SMA K1FM FN31 WA47KO 23 34 34 25 26 19 FM78 N8OF 136 15 FN91 Q Q M R N1JEZ KA1R W1XX 12,960 8,448 8,364 KI3O K4DJV W4AMP FM18 EM74 EM74 EM64 K8JWT N8ZGQ W8KNO FM09 EM79 EN91 EN91 OH OH OH OH A A 6 6 FN05 44 1,425 VE3CRU 13,072 108 14 **86** 11 **25** 16 MA MA N4BCD **57** 30 N1SV KC1MA 7,840 **7,112** 139 113 56 **56** FN42 KB8UUZ VE2PIJ 154 FN51 W4FRA FM15 WA8BCA 480 EN90 6,688 6,510 5,092 5,088 4,352 130 108 103 101 W200 WB4IXU K2EVW N3KKM AC2N FN43 FM85 (O<sub>I</sub> OH OH OH MI K8WW BERMUDA 6,048 FN43 FN43 FN45 448 429 221 EM89 EN91 EN70 EN82 W1RZF N1JHJ 16 13 13 FM86 K1LT VP9/WA4PGM 108 FM72 EM96 FM25 EL88 W8KEN K8EG NF8M MONTSERRAT KX9X/1 W1MKY FN43 VP2MS.I 6 132 12 FK86 W1DY.I 3,666 39 21 FN42 NV4A 136 96 14 10 FM95 N8XA 6,500 4,550 106 65 52 50 OH MI FM89 (Op: W5SJ) MA CT CT ME CT CT ME ME N1ZN FN31 NE4W EM96 K9CT EN67 PUERTO RICO 456 29 12 1,449 620 248 AI4GR KH6TA KF4ZS N71I FN41 FM85 488 198 137 170 FN54 FN31 FN41 FN44 FN53 K2DRH KC9BQA W9GA 104,470 19,944 13,124 12,272 EM66 EM96 155 72 68 52 37 26 30 20 23 FN41 NP3CW FK68 EN41 EN63 EN53 EN61 10,024 ST. LUCIA 84 10 KB1JDY 180 **61,770** N4BP W4MAY 179 155 EL96 EL97 142 68 48 32 21 16 12 435 122 119 63 30 22 15 29 K1TOL **W09S** I6/WR4WXF Α FK93 N4CW/1 N4WW FL 98 W9THD N9YLZ 2,738 1,898 EN71 3,960 2,176 36 34 27 23 28 53 53 26 23 K1DAT N1IW W1FJ N1BCL FN42 FN42 FN42 FN34 MA NH MA VT MA N4PN FM82 FN42 **US VIRGIN ISLANDS** N4PN N4MJ K4SN K3KO 1,701 1,541 1,456 EM56 EL96 FM06 EM56 FM06 N7MB ND9Z KA9BYN 1,860 800 667 576 408 EN42 EN50 EN54 EN60 KP2DX 67 **52** 42 40 AFRICA CANARY IS. K1VU 180 FN42 K9IL 966 920 23 23 N9UX N9NDP 26 19 EN52 EN62 16 12 10 9 WØUCE 26 30 KA1RI 174 RI FN41 FA8COW IL18 (Op: W1XX) RI FN41 RI FN41 RI FN41 250 180 154 K4WI 860 690 560 525 425 384 FM62 N9I YE FN51 EA8AQV EN50 EM69 EM57 EN50 KB1MAO K1NPT N1EYE K4ZW KW7R KR4F AA4CF FM18 EL87 EM64 EM74 KG9N W9ZB W9RVG W9SE 46 35 35 25 32 11 MADEIRA IS. 84 **1,881** 800 12 **57** CT3FQ IM12 6 33 20 18 13 12 12 6 36 W1JP2 FN41 2 Q\* Q\* CT CT NH MA ME CT NH MA ASIA W1QK 1.118 FN31 N4MM FM09 W9VA EN62 K90M ND9E AJ9C NS9I WI9WI 522 260 168 144 12 K1ZE W1QH 1,095 374 FN31 KN4Y 330 182 160 63 45 42 36 16 FM70 FN65 CYPRUS 6 15,456 161 WI IL IN WI WI IN IL K4JEB K4ECP KE4RGH N1ADY EN50 EN70 EN54 EN53 Q\* FM02 C4M Q\* 374 Q 11,650 Q 760 M 126,880 M 79,488 M 17,040 FN43 FN32 FN43 FM17 EL88 EL88 KA1LMR N1QLM 174 50 19 160 128 71 48 (Op: 5B4AGM) 32 639 481 197 160 35 CYPRUS - UK SOV. BASE AREAS K1WHS KB1DFB FN41 KC8KSK FM03 W9HT EN71 ZC4LI 9,088 KM64 6 Q\* Q Q M 22 128 NE1B FN42 W2WAS FM05 W9SZ 1.210 37 EN50 K9AKS KO9A KK9V EN41 EN52 EM69 EN44 K2OAK 10,272 140 FN32 AI4G FM86 7,920 4,050 101 93 55 30 JAPAN IL IL IN WI N4TZH NZ1D KI4FW W4MW EL96 EL98 FM18 **525** 442 **30** 26 **15** JA6WFM JA2MWV PM52 PM84 WA2VYA 7,526 5,967 3,774 118 97 70 53 39 37 NJ NY FN20 FM29 310 18 10 KC9ECI 66 **45,162** M M M M 396 191 154 117 103 78 74 61 48 36 THAII AND N2NF EM96 HS2ZMU HS4DDQ HS8LUR E22HUV HS8TAB N2SLO OK04 OK03 NJ99 FN30 K4SMF 15,910 11,529 EM80 EM84 KØSIX 20,915 187 182 144 125 110 75 66 64 MN CO CO CO MO MN MN FN35 89 77 54 61 47 44 39 46 20,915 16,093 9,774 8,174 6,674 4,048 W2KV KA2CYN W2BVH WA2PNI 3,105 2,914 2,240 1,998 1,984 FN20 FN31 FN20 FN20 FM29 WØEEA WØETT NØKE KØTPP W4NH DM79 23 31 28 27 32 ГИ ГИ ЛА ИА ГИ DM79 DM69 EM48 W4YCC W4APP 6,624 4,032 FM94 EM87 A A A A 2,320 2,256 232 282 OK03 NJ99 WA5LFD EM12 EM14 2,060 1,130 1,044 N1IBM 4,624 3,232 84 57 34 32 OK MS TX OK TX TX TX KØAWU EN37 EN34 HS3ANP 10 OK14 103 113 58 82 119 1,840 1,675 1,449 851 288 E20MWE HS4NOR E22TV W2UDT FN20 FM29 K5WPN WØGHZ 3.471 OK03 ИА КИ КИ ГИ П KC2COB KA2OON W2JTM K2RET OK16 OJ07 WN2F 180 FM50 NØUNL 3,450 FN10 WN2E NM5M N5UWY WK5F K3TD KC5MVV FN20 FN31 FM29 EM13 EM15 EM21 EM10 BØBGZ) DM79 DM79 EM48 CO CO MO CO **820** 714 NØPOH NØHF WØHBH 78 60 56 54 E22ICQ OK03 HS7WYN 636 224 106 28 OK03 N2GKM 200 18 10 FN31 1,736 1,275 E20WGQ OK03 HS8VZW HS3NWD E21YDP HS8KGG HS8GLR/P 184 160 72 23 KA2MCU FN32 24 DM93 WVØH DM79 0.108 EN35 EN40 DM79 EM28 DM79 K2HVF NJ (Op NY NY NY NY NY NY NY FN20 W5WV0 7,638 4,578 134 109 57 42 NM TX (O<sub>I</sub> TX TX TX AR TX TX AR TX AR TX DM65 KCØVEP 960 608 125 24 19 MN IA CO MO CO MN CO SD MN KS MN KCØTDJ KIØSK KØDAN KBØYH W2MMD 15,872 248 64 FM29 K5TR FM00 N2NRD FN30 11 184 73 27 12 OK03 OJ07 WD5K AA5AM EM12 EM13 KC2HZW 4,815 3,230 Q\* Q\* Q\* Q\* M M M M M M M M M M M 107 2,208 584 108 72 1,836 68 34 25 27 WA2ETU FN02 E20YLM/P OK16 WB2AMU 1,472 46 32 FN30 N5XTR 260 252 20 18 DM83 W6GMT 782 425 23 17 EN37 HS7WHB/P E20XMG/P 13 14 14 12 OK13 OK03 OK03 W2JCN 576 FN21 KD5J EM45 N5AW/Ø DM67 EN14 EN36 EM17 HS1AXC HS3QCT HS4PRL E21LXK HS1EFA 9,600 8,200 6,144 238 204 20 10 10 12 N2RHI 340 34 FN02 NA4M 17 17 FM10 WBØTSR 12 480 410 256 414 338 WB2SIH K2QO W2JEK 129 57 21 FN02 FN02 FN20 FN30 WOVX W5ODD W5KI K5QE EM12 EL09 EM36 EM31 KØKP NOØJK KCØRQH 9,231 1,564 1,040 26 3 19 7 20 3 11 Q\* Q Q M OK16 308 NJ NY **NY** 168 EN35 DM79 5,796 5,408 OK03 6 M 96,117 384 161 OK03 5,408 5,222 3,220 2,232 1,592 968 439 127 38 34 26 1,456 43 28 E29KRM HS6SAJ E22KNY HS9PSU KA2LIM 76.962 FN12 KOXXX M 943 220 37 18 23 11 FM46 KCØ770 FN26 373 230 279 199 121 2,774 2,380 1,794 FN20 FN32 FN20 NY NY NY W2YR WA2BAH KC5MVZ DM93 Rover WB3BEL WB8BZK N9WU K5RNT 33,553 28,684 27,612 20,516 W2SN KG6IYN W6YX 21,540 2,616 DM12 CM87 266 78 CA CA 60 24 89 101 117 92 83 89 81 82 69 48 **0J07** E21EIC OK03 PA FNzı (Op: K2LNS) FN20 504 20,944 7,056 6,930 5,280 418 116 WA2FGK Α 64.148 (Op: CA (C6SXC) CM98 153 128 155 8 16 F27BGU 126 **374** OK03 KC6ZWT 24 24 17 E22YS E22HMR HS2WPJ HS9WQE 2.136 54 57 23 32 33 30 28 18 15 15 18 12 FM20 FM19 FM19 FM19 K300 K2PLF KA3ZLS 20,930 16,665 14,758 10,608 CM99 196 231 176 249 237 213 162 K6EL 1.944 K1DS 20.252 1,944 1,292 324 297 495 270 MD MD MD PA AJ6T KE6EEZ KF6I N6ORB CM87 DM06 DM13 CM87 AE5P W4VHF AE5BN WAØVPJ 16,376 15,714 119 145 105 109 75 12 4 12 6 4,176 3,768 2,320 12,874 11,592 4,704 W3PAW HS50MY 116 157 K3ISH 8,736 FN21 E22JJJ 8,640 7,912 4,590 3,740 DM04 K370 164 136 MD PA FM18 NT6X W3DHJ HS1K7H 116 80 10 K3TUF N3UM K3TC WB3IGR FM10 FM18 FM19 FM18 K6MM 10 10 CM87 N3XUD 3,450 HS8JYX 50 50 48 4 30 34 44 30 32 38 26 MD MD PA PA MD PA MD PA DE PA DC NACO DM03 KHATY K6WSC N6ZE KG6ZHC DM13 DM04 CM87 N2SLN K4ESA W3BC EUROPE AUSTRIA 6 2 Q OE4VIE 660 22 AF3I 1,325 FN10 30 JN87 616 260 171 70 KM3G FM19 KG6HSQ 108 550 6 11 DM13 DM06 K9JK OF1SOW 2 Q\* 288 600 12 25 JN88 88NL 31 KB3STA 2,444 N3FMF FN01 K6MI OE1CWA FM19 FM11 FM18 K6.JRA 2.322 CN87 CN87 DN02 DM34 W7CF 19 536 221 N1I F **BOSNIA-HERZEGOVINA** WA WA OR AZ OR UT N7EPD KB7ME K7TOP 33 27 24 157 E70T JN84 K3TW 6 32,940 270 122 K3WW 1,564 1,420 FN20 8,556 5,376 102 105 68 71 38 23 1,152 CROATIA N1S7 FM19 N1KPW 27 15 17 W3TE FNOO KI7JA 3,458 3,358 CN83 DN41 WD9EXD JN85 9A6AIB 324 N3TFF 299 FM29 K7ULS AB0YM 9A2TN 9A7T 615 578 459 140 117 112 K3YG 4U1WB FN10 FM18 KD7U0 W7SUR KG7P N7NT 1,978 1,785 1,620 507 CN87 DM39 CN87 DM43 CN87 KB80 36 10 23 35 20 13 **35** 17 9 WA UT WA AZ WA WA AZ MT W4AN AA5JG NQ7R KD5IKG CZECH REPUBLIC (Op: AJ3M) N FN10 W3RGA **45** 32 PA PA 32,627 15,872 Q\* 1.134 **18** 19 32 110 9 10 7 OK1DOI 232 156 26 543 101 JN69 OK1DOL OK1DC OK1KZ OK1KIM OK1KFB 3.850 K3NG 817 FN20 K7CW IN69 K3TW W3SO N3JDQ J070 J060 JN79 MD PA PA 26 21 6 260 150,535 FM18 K7AWB 442 DN17 NF8I 77 380 73 N7IR KG0AL DM43 DN76 W9ILY KA3KSP 104 24 36 32 6.868

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	ENGLAND HUNGARY										SPAIN			UR4IFI	0	256	32	4	KN98				
2EØRCV	Α	2.322	52	27	J001	HA7LW	6	182	14	13	JN97	EA2TO/1	Α	8.778	91	66	IN83	UY2IJ	ā	238	17	7	KN98
GØLGS	A	1,802	43	34	1081	HA2VR/P	Q*	3,550	76	25	JN87	EB1YK	A	6	2	2	IN73	UR4QX	Q	224	16	7	KN86
G3TXF	6	1,189	41	29	1091	HA7UL/P	Q*	2,992	68	22	JN97	EA2ARD	6	3.750	75	50	IN93	UR2IFN	Q	216	27	4	KN88
G8HXE/P	Q*	1,482	57	13	1083	HA4BF/P	Q*	1,620	45	18	JN97	EA5DIT	6	1,802	53	34	IM99	US3ITD	Q	216	27	4	KN98
M1DUD	Q	621	27	23	J002	HA5CQZ/P	Q*	1,260	42	15	JN97	EA1KY	6	1,680	56	30	IN71	UY9IT	0	208	26	4	KN98
G4JSR	Q	480	22	16	1082	HA5AZC/P	Q*	1,088	36	17	JN97	EB5CNK	6	64	8	8	IN90	US5IVL	ō	200	25	4	KN88
043310	u	400	22	10	1002	HG4UK/P	Q*	792	33	12	JN97	EA1WX	6	20	5	4	IN63	US7IGN	ō	200	25	4	KN88
		FUDOD	- A N D	ICCIA		HA5TI/P	Q*	462	21	11	JN97	EB1LA	2	1.794	39	23	IN63	US7IL	Q	192	24	4	KN98
	_	EUROP				HA6VV/P	Q	4.760	85	28	JN97	EB1EHO	Q	2,992	68	44	IN73	US5IW	Q	176	22	4	KN88
RW3XL	2	320	16	10	K084	HA4YF	Q	825	33	25	JN97	EA3FHP	Q	16	4	4	JN11	US3IAK	Q	168	21	4	KN88
RA6DA	2	182	13 5	7	KN96		•	020	00	20	3.177	2,101111	•				5.411	UT2II	Q	168	21	4	KN88
RV2FW/1	2	50		5	K059			IR	ELAND									UY2IW	Q	168	21	4	KN98
RU3GX RV6YY	Q	1,440 1,054	36 31	20 17	KO92 LN04	EI9FBB	6	18,090	201	90	1051			THE NE				UR7INK	Q	128	16	4	KN88
							-	,				PE7T	6	90	10	9	J032	UR4ISL	Q	120	15	4	KN88
RW6AG	0	572 378	26 21	11 9	KN96 LN04			L	ATVIA			PA1W	6	48	8	6	J021	US2IHW	Q	78	13	3	KN98
UA6DX/P RW6CT	0	378	18	9	KN95	YL3DR	6	2,124	59	36	K026							UXØUW	Q	9	3	3	KO50
UA6HRX	Q	288	16	9	LN04									UH	(RAIN	Ε		UT5UUV/P	Q	2	2	1	KN76
RV6HO	Q	256	16	8	LN14			LIT	HUANI			UT5EZ	Α	980	38	14	KN78	UR7D		106,095	415	165	KN18
RN6BL	Q	210	15	7	KN95	LY2BUU	6	1,175	47	25	K015	US7IA	Α	549	32	9	KN88	UV6I	M	11,040	138	46	KN98
RU6HL	Q	196	14	7	LN04							UT7EJ	Α	92	15	4	KN78	UT7E	M	6,164	97	46	KN78
RX6AH	Q	196	14	7	KN95			LUXE	MBOU	RG		UT5EW	Α	84	15	3	KN78	UU9A	M	6,032	80	58	KN64
RN6CG	Q	156	13	6	KN95	LX1NO	Α	40	6	5	JN39	UT4EU	Α	72	13	3	KN78	UX4E	M	2,002	47	26	KN78
RV6BU	Õ	144	12	6	KN94							UT5URW	6	1,530	45	34	KO50	UR3IWI	M	138	23	3	KN98
RX6DX	Q	120	12	5	KN95			MAG	EDON	IA		UT5ERP	6	1,302	42	31	KN77	UW2I	M	44	11	2	KN88
UA6AVQ	Q	108	9	6	KN96	Z37M	M	4,560	80	57	KN11	UY5ZZ/A	6	888	37	24	KO50	US4IYY	M	14	7	1	KN97
RA6HLF	Q	100	10	5	LN04							USØKW	6	667	29	23	KO30	US3ITU	R	4,692	102	23	6
RA6FQR	Q	96	12	4	LN05			NC	RWAY			UR5FAV	6	400	20	20	KN45	US3IQ0	R	256	16	8	2
RN6HAP	Q	64	8	4	LN04	LA9Z	6	4,560	80	57	J038	UY5Q0	6	154	14	11	KN77						
UA6HFI	Q	60	10	3	LN04						(Op: LB1G)	UZ5Q	6	30	6	5	KN78			V	<b>/ALES</b>		
RX6CW	Q	56	7	4	KN95	LA3BO	6	1,976	52	38	J059	UW5W	2	3,300	55	30	KN29	GW8ZRE/P	Q*	1,200	50	12	1083
UA6EC	Q	56	7	4	LN14							UR6EC	2	1,258	37	17	KN78						
RA6FQO	Q	48	8	3	LN04			P(	DLAND			UR5QU	2	1,056	33	16	KN77			SOUTH	1 4 5 7 5	DICA	
RN6HBI	Q	42	7	3	LN04	SQ9IDE	6	1,144	52	22	JN99	UT5ER	2	928	29	16	KN78						
UA6LNS	Q	20	5	2	LN07	SP2DNI	Q	270	18	15	J094	USØGB	2	870	29	15	KN67	LUADIN	,		GENTII		0505
RK6ARD	M	384	24	8	LN05	SN50RS/7	M	132	12	11	J091	UR5UI	2	784	28	14	KN59	LU1BJW LU2UF	6	2 28	2 7	1 2	GF05 FF73
THIOTHE	•••			٠	2,100							US8ZAL	2	750	25	15	KN66	LU2UF LU2ECP/U	2	28 8	2	2	FF73 FF73
		EUROP	EANI TI	IDIZEV					RTUGA			UT5JCW	2	570	19	15	KN64	LU1UAB	2	4	2	1	FF73
704117	•				1/21/44	CT1DZY	6	20	5	4	IN51	UT3EK	2	560	28	10	KN78	LUBURU	2	4	2	1	FF84
TA1HZ	2	20	5	2	KN41							UR4EYA	2	558	31	9	KN78	LU5UBI	Q*	4	2	1	FF73
									MANIA			UT1EA	2	540	27	10	KN68	LU2UPD	Q	2	1	i	FF73
			RANCE			YQ6A	6	456	24	19	KN25	UY50N	2	460	23	10	KN89	LU6U0L	Q	2	1	i	FF73
FØFEK	Q	1,216	38	16	JN19	YO5CBX	6	100	14	12	(Op: YO6BHN)	UTØEG	2	432	27	8	KN67	LOUGOL	ų.	-			1173
						YO5CBX YO5CRQ	6	182	14	13 11	KN27 KN17	US5EY	2	294	21	7	KN67			ь	RAZIL		
			RMAN'				6	132 90	12	9		UT3EW	2	180	18	5 5	KN78	PV8AZ	6	12	KAZIL 6	. 2	FJ92
DJ6TK	6	546	26	21	J044	YO5QAW	-		10	7	KN17	UR4UAR		140	14	-	KN59	PV8DR	6	4	4	1	FJ92 FJ92
DL1ET	6	414	23	18	J031	YO6ADW YO3DDZ	6 2	56 1 140	8 29	20	KN36 KN34	UR5EAZ	2	112	14	4	KN78	PV8DR PV8ADI	6	2	2	1	FJ92
DL7DZ	6	63	9	7	J043	YO3DDZ YO3FOU	2	1,160 340	29 17	20 10	KN34 KN34	UT4EK <b>UT1HT</b>	2	88	11 8	4	KN67 <b>KN69</b>	PV8ADI PV8RF	6	2	2	1	FJ92 FJ92
DH5MM	Q	378	21	18	J052	103100	2	340	17	10	NIV34	UT5EDT	2	<b>64</b> 56	7	4	KN69 KN67	PUSTEP	Q	8	4	2	FJ92 FJ92
								c	ERBIA			UR5WDQ	2	24	4	3	KN19	PUOIEP	u	0	4	2	FJ92
		G	REECE			YU2DX	2	3.000	60 60	25	KN04	UR5FFC		24 8	2	2	KN56						
SY8KF	M	5,712	89	56	KM08	TUZDA	2	3,000	00	23	KIVU4	UY7IQ/P	2 Q*	216	27	4	KN88				CK LC		
								CI.	VEDEN			US5ID/P	Q*	208	26	4	KN98						K8YC, KG4QEN,
		GU	ERNSE	γ		SM5ARL	6	144	12	12	J079	US5IHF/P	Q*	192	26 24	4	KN98 KN97	LU2UE, PAG	∂WL8	B, PV8DX,	UX8IR,	W9IIX, Y	J3APJ.
MUØGSY	6	1.036	37	28	IN89	SM6WET	6	140	14	10	J068	US7IIZ	Q	340	34	5	KN98						
MUØFAL	6	323	19	17	IN89	SM7LQV	6	9	3	3	J077	UT3IK	Q	300	30	5	KN98						
		320				SIVITEQV	0	7	J	3	3011	OTSIK	Q	300	30	3	KIV70						

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