Results of the 2011 CQ WW VHF Contest

BY JOHN LINDHOLM, * W1XX

"The important thing in life is not the triumph but the struggle. The essential thing is not to have conquered but to have fought well."

Pierre de Coubertin, founder of the modern Olympics (TNX PJ2BVU)

rof. Olaf Pikisilmä has outdone himself! The inventor of the web-based LingonBerry, which reports VHF contest results, has now gone one step further with his ground-breaking vPad (see fig. 1). The vPad reads all VHF contest signals in real time and instantaneously determines if CFM (Contact Forwarding Mode) is warranted. The heart of the system is VAC (VHF Activity in Contests), which literally sucks a sample of all contest RF out of the ether worldwide for processing. The results of the contest are known to the vPad owner as the contest progresses in real time with the final results available just 3830 nanoseconds after the completion of the contest at 2100Z. VAC is located on a floating ice island and was last seen near former DXCC country Wrangel Island in LOC AQ10zz. Thus far the system is both date and frequency sensitive—restricted to 50 and 144 MHz and the third weekend in July.

At the fall meeting the Contest Quahogs of Rhode Island (CQRI) were the first to see the prototype of this remarkable device operating in RE-PLAY mode. Here are the CHAT results as summarized by "The Old Timer."

Propagation Conditions

Chats about propagation conditions always predominate, with rover station *W3DHJ* coming up with the most graphic: "Saturday was a sack of rocks!" But Jonesy finished on a positive note with: "The best two hours of 6-meter *E*-skip thankfully occurred while I was in DM87." Multi-op *K2LIM* noted the same in the east with: "Band conditions were poor for the first part of the contest but 6 meters opened to the southeast USA, Caribbean, and South America about four hours before the end of the contest." Meanwhile, *TI4KD* "chanced propagation and went to rare grid EK80 with fingers crossed and *finally* got some decent openings to the U.S." Europe was no exception, as *IT9VDQ* noted, "poor propagation until Sunday around 1300Z and then—after several good QSOs—I was called by two JAs. Great!"

Newbies

First timers to CQ VHF are always a boon to activity: "This was my first CQ WW VHF contest. I worked it from FN21 while on vacation using a 3-element 2-meter homebrew beam and 6-meter Par stressed Moxon on a painter's pole."— K1PRO. Likewise KJ4WLH: "First contest ever!" And rover N8VUR: "First time working a VHF contest. Will do it again." In Europe, SV1DJG/P "entered a VHF contest for the first

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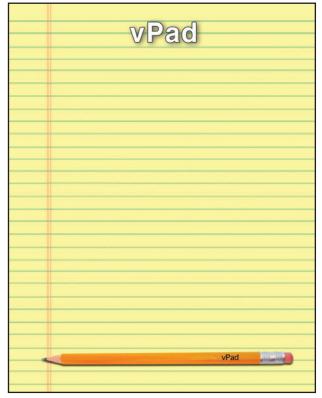


Fig.1 – For security reasons, the vPad is cleverly disguised as an ordinary yellow notepad. The pencil is really the START button, which upon activation reveals the LED backlit pale-yellow touch screen. The options are SCORES, CHAT, or PROP available in real time or playback.

time to get the feeling and experience of the magic of 6 meters. Running 3 watts to a 2-element HB9CV antenna was tough but very exciting." Rookie operator *WA7KVC* "had great fun operating from a scenic hilltop in eastern Washington state on 2 meters." Next year he'll "add a 6-meter antenna to keep a lot busier."

Some Score Highlights by K9AKS

While some of the more technologically savvy Contest Quahogs continued to play with the vPad, the club was treated to a score analysis focusing on contest records by contest historian Curt Roseman, K9AKS. The Old Timer took notes, shared here with *CQ*:

In 2011, 6-meter only operators were treated to very good conditions in many areas of the world. E70T broke the all-time record for Europe with 73K points, while TA70M broke the Asian record with 87K. Their grid multiplier totals of 196 and 185, respectively, easily surpassed the previous Europe/Asian of 154. Big news on the Magic Band was also made in Central America and the Caribbean with six of the top seven all-time high scores attained

this year, led by VP5CW (W5CW) and XE2N, each making over 400 QSOs.

The all-band (A) category this year saw some very good scores on both sides of the Atlantic. UT8IO attained the 4th highest score ever in Europe at 37K, and four of the ten all-time high scores in Europe were posted this year. K2DRH from Illinois again trounced all U.S. scorers with 167K points. Bob once again led the U.S. in 2meter QSOs with 169. Elsewhere, NR5M broke the record for the 5th call area and KG6IYN did the same in 6-land. All-band activity was significant in Canada, where 5 of the 15 all-time high scores were posted in 2011; and they came from disparate locations: BC, SK, ON, NB, and NS.

The highest European multi-op (M) scores also came out of Ukraine, with UT11's 185K total the third highest ever in Europe. T48K in Cuba marked the highest multi-op score ever in the Caribbean with 32K points. K5QE & Co. was again the overall winner, although the Texans did not quite reach the 200K mark as they did in the four previous years.

QRP activity was substantial, with some very nice scores posted by the masochists who practice the art. Three of the five highest all-time EU QRP records were set. E77RW led the pack with over 20K points from Bosnia and Herzegovina. C4M scored over 29K from Cyprus, which is classified as Asia. The first significant score from south of the U.S. came from TG9ANF in Guatemala who made 101 QSOs. In the United States, the usual suspects led the way, with Chris (formerly KA1LMR) sporting a new callsign—W1MR—at 39K, again besting K9AKS and WB2SIH, both with better than a 10K score.

As usual, the 2-meter-only participation

was scant in North America, but substantial elsewhere, especially Thailand, Russia, and Ukraine; ON5GS was tops with a score of 8K. Three cheers for Stan, KA1ZE/3, who forsook the glamour of 6 meters to hand out 134 two-meter Qs from his Pennsylvania hilltop for the third highest USA score ever in that category.

QRP portable stations working only 6 hours-called hilltoppers-are unique to this contest. This often affords operations from difficult to reach rare grids. In the U.S., WB8BZK gave up roving (top rover score in 2010) to operate 3 one-thousandths of a degree inside EN62 near Lake Michigan to another winning score with 2.7K points, edging out W9SZ by just 9 Qs. In Europe, HA2VR/P again combined CQ VHF with "Summits On The Air" to a world high score of 4.3K points in the hilltopper (H) category. (For more on hilltopping see this month's "Mobiling" column.—ed.)

In the rover (R) category, W9FZ drove ahead of the US pack with 37K points with K9JK placing second. Although rare elsewhere in the world, rover US3ITU broke the all-time European record with 246 QSOs and 26K points.

Thundrous applause in appreciation by club members eased Curt's way back to his seat.

Reflection on the Rules Change

With The Old Timer again taking notes for CQ, the contest director proceeded to lull the CQRI membership to la-laland with a lengthy dissertation regarding the rules change in effect for the 2011 contest:

The CQ WW VHF Contest for 2011 incorporated a somewhat bold change in

its rules. It attempted to recognize the changing landscape in VHF contesting especially as it pertains to newer technologies-but also that there is a significant difference between HF and VHF contestina.

There were basically two aspects of this change. First was adopting what is now

TOP SCORES WORLD Hilltopper All Band UT8IO37,788 HA2VR/P.....4,389 HG4UK/P1,701 DL2OM......33,109 OK1DC.....30,590 UXØFF.....29,480 C4M29,412 E77RW.....20,470 6 Meters TA7OM.....87,690 HA1ZH13,650 E7ØT.....73,108 UT7EL.....9,163 VP5CW52,393 XE3N.....48,510 Rover US3ITU26,298 HS6FUJ14,220 2 Meters ON5GS8,316 9A4VM6,552 Multi Op UT1I.....185,310 URØEQ......6,384 US6IF.....5,304 UU9A109,482 HG1W42,007 UW3E.....39,650 USA **All Band** QRP K2DRH.....167,400 W1MR.....39,585 K9AKS23,808 NR5M.....105,165 WB2SIH.....14,204 W1XX.....87,910 N4QV.....86,670 N8XA9,216 WA2FGK......85,813 K3TW.....4,455 6 Meters Rover K1TOL68,005 W9FZ.....37,506 N4WW57,040 K9JK20,100 N2SLN13,920 N4BP44,280 WA2IID10,950 W3EP.....35,392 W2MMD.....34,578 WW7D7,518 KF6A.....29,539 Multi Op K5QE.....187,392 2 Meters KA1ZE/313,132 W3SO121,242 W4MW.....82,399 W9ZRX2,350 K2LIM81,620 Hilltopper W4WA.....54,626 WB8BZK.....2,697

C N

K1TOL again posted the top U.S. single-op score on 6 meters. This is how Lefty's worked grid square map looked at the conclusion of the contest.

QSO LEADERS BY BAND WORLD

W9SZ.....2,418

Single-Op 50 MHz	Multi-Op 50 MHz
TA7OM474	UU9A440
XE3N385	UT1I356
E7ØT373	
	144 MHz
144 MHz	HS1EFA613
HS8JNF287	HS8KFW428
E29ICZ230	HS4DWI407

11CA

	U	SA	
Single-Op 50 MHz)	Multi- 50 M	
K2DRH	499	K5QE	534
K1TOL	469	W3SO	322
		W4NH	282
144 MHz			
K2DRH	169	144 N	ИHz
KA1ZE/3	134	W4MW	206
WA2FGK	99	W3SO	202
		K5QE	117

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CLUB COMPETITION

(Minimum of 3 entries required for listing)

UNITED STATES		
Club Name	# Entries	
POTOMAC VALLEY RADIO CLUB	26	461,947
FLORIDA CONTEST GROUP	10	365,947
SOCIETY OF MIDWEST CONTESTERS		
NACOGDOCHES AMATEUR RADIO CLUB	3	195,540
CENTRAL TEXAS DX AND CONTEST CLUB		
YANKEE CLIPPER CONTEST CLUB	11	102,967
BADGER CONTESTERS		
CAROLINA DX ASSOCIATION	6	93,393
SOUTHERN CALIFORNIA CONTEST CLUB	3	82,247
PACIFIC NORTHWEST VHF SOCIETY	16	48,707
FRANKFORD RADIO CLUB	5	45,010
NORTH EAST WEAK SIGNAL GROUP		
ARIZONA OUTLAWS CONTEST CLUB	7	33,767
SOUTH EAST CONTEST CLUB	7	27,500
LONE STAR DX ASSOCIATION	3	19,021
ALABAMA CONTEST GROUP	4	16,987
GRAND MESA CONTESTERS OF COLORADO	5	15,998
NORTHERN CALIFORNIA CONTEST CLUB	6	15,146

MAD RIVER RADIO CLUB	4	11,844
BRISTOL (TN/VA) ARC	4	11,002
TENNESSEE CONTEST GROUP	8	7,774
MINNESOTA WIRELESS ASSN	4	4.361
WEST PARK RADIOPS	3	3.985
PORTAGE COUNTY AMATEUR RADIO SERVICE		
WORLD		
UKRAINIAN VHF INTERNATIONAL CONTEST CLUB	18	264,558
UKRAINIAN CONTEST CLUB	10	111,011
BOSNIA AND HERZEGOVINA CONTEST CLUB	4	101,842
GRUPO DXXE	5	70,823
BLACK SEA CONTEST CLUB	7	59.952
CONTEST CLUB ONTARIO	7	19.175
MARITIME CONTEST CLUB	3	14,818
CONTEST GROUP DU QUEBEC		
LATVIAN CONTEST CLUB		
BERGEN ARA		
UA2 CONTEST CLUB	3	416

common practice in day-to-day operating and now permitted in a growing number of contests—namely, to allow single ops to utilize packet cluster "passive assistance," but not self-spotting. This was not expected to be a game changer, and in fact seems to have caused hardly a ripple. Many casual ops probably thought it was already permitted. This is what some contesters had to say about it:

"On passive assistance, the rules were clear and welcome. Recognizing that VHF contesting can benefit was a revelation and great leap forward. Rules that help increase success for single ops without detracting from, lessening, or cheapening the competition should be furthered and welcomed."—VE1SKY. "I enjoyed the new rules allowing internet assistance. It did seem to result in more contacts and certainly helped to track shifting propagation. It's a simple formula: more contacts = more fun. VHF is not like HF, and any aid to making more contacts is most welcome; kudos to CQ for its common sense."—N1LF. "I like the allowance of spotting use, or in my case, DX-Sherlock. It helps to know if I am wasting my time even listening, especially with QRP on my end. If there's no red on the map, I would just as well go work outside."-NDØC.

The second aspect, permitting limited "active assistance" for digital EME/MS (Earth-Moon-Earth/Meteor Scatter) modes, required a bit more discipline to stay in bounds of the rules. Again, some comments from users:

"I simply love the new rules. We made more contacts on 6meter meteor scatter this time than usual. We did not have the

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Bill, VE3CRU, created quite a bit of excitement for grid chasers as he rovered through four rare northern Maine grid squares.

usual 12-15 stations sitting on 50.260 MHz calling CQ. Once someone called me on my frequency, I almost always was able to work them. This was a major improvement. On 2-meter EME, because I could post my run frequency, there was little confusion in completing the contact. I do not recall losing any contacts once I got a good decode to my CQ. The whole digital part of the contest was much cleaner, more efficient and productive."-K5QE. "Some confusion occurred as some Ping Jockey users tried to set up contacts with CQ VHF contestants. Casual digital meteor-scatter enthusiasts were at a loss to explain the 'zombie-like' response if they approached a contester for a 'try' on a band. Instead of the usual welcome from the contest operator to attempt an MS QSO, only a truncated reply of callsign, sequence, and frequency was posted by the contester following contest protocol. Regardless, the contest went very well overall. This is my favorite contest of the year. Thanks for the continuing improvements."—VE1SKY. "I thought the rules were quite clear, as you could spot your CQ frequency, call, and

GRID MULTIPLIER LEADERS
BY BAND
WORLD

Single-0		Multi-Op					
50 MH	Z	50 MI	łz				
E7ØT	196	UU9A	189				
TA7OM	185	UT1I	171				
HA3DX	131						
UR5QU	130	144 M	Hz				
		UT1I	42				
144 MF	lz	HG1W	34				
ON5GS	42	UU9A	24				
URØEQ	42						
DL2OM	41						
	US	SA					

Single-Op 50 MHz	Multi-Op 50 MHz
N4WW155	K5QE174
K1TOL145	W4WA116
N4QV148	W3SO110
144 MHz	144 MHz
K2DRH60	K5QE70
KA1ZE/349	W3SO57
WA2FGK35	W4MW51

calling sequence, which is what I did. From the comments on PJ, some didn't fully understand the rules and added the direction they were CQing—which was stretching things a bit. Overall, I thought it went quite well, although maybe there needs to be some minor tweaking. But I think CQ VHF is on the right track recognizing what is going on in the real world on a daily basis." – $N\emptyset KE$.

In preparing these final scores, the adjudication process involved a careful review of transcripts of the usual chat and cluster sites. Most postings consisted of harmless prattle. Although there was evidence of some stretching of the rules, none were so egregious or numerous that any significant scoring advantage was obtained. To the contrary, although there was some discussion as to what was and was not permitted, it was clear that in this first year of rules modification, compliance was remarkably good. Thus, no punitive action was warranted this time around. This required a careful look at who was in the contest, as non-contesters obviously felt no compunction to follow the restrictive contest protocol. In conclusion, the digital aspects of the rule will be carefully reviewed prior to the 2012 contest, as suggested by Phil, NØKE.

Polite applause ensued from the CQRI brethren as the contest director concluded his remarks and several who had nodded off again regained consciousness.

Finis

The CQRI meeting ended informally with refreshments of cider and donuts, during which the contest director added a few final comments:

The 744 log entries established another new record, an increase of 6.3% over last year. Thanks to these amateurs who have volunteered their time and skill to assist in various ways to make this a fun contest: 7L1FPU, DL8EBW, E21EIC. EA3ALV, HA2VR, K1JX, K9AKS, KW2G, LU2UF, NØUK, PY2ZX, SM3CER,



The plaque is back! Starting in 2012, sponsored plaques will again be offered to top category winners. Here's the prototype, a "brassy"-finish acrylic laminate. To sponsor a plaque go to https://www.cqww-vhf.com/plaques.htm.

UT1IC, W1PN, WA7BNM. Special mention goes out to W3KM, whose log checking program we used for the first time; K9JK, who did the 2010 certificates; LZ2FQ, who provided the Cabrillo log check for formatting logs; and most certainly N8BJQ, who masterminded all the log-checking procedures. What a team!

Reminders were made for the 2012 CQ WW VHF Contest, July 21–22, still the third complete weekend in July but a bit later than normal. The full announcement will appear in the June issue of *CQ*, and on the *CQ* website <cq-amateurradio.com>, and on the CQ WW VHF Contest website <www.cqww-vhf.com>. A summary of the rules will also appear in various languages on many international websites.

After all the festivities had concluded, The Old Timer took charge of the vPad and made a beeline for the parking lot. While opening the door to his 1948 Hudson Hornet, he placed the vPad on the car's roof and then absentmindedly sped off as the device smashed to smithereens all over US Route 1.

73, John, W1XX

Expanded 2011 CQ WW VHF Contest Results

For a listing of the ops and grids activated by rover stations in the 2011 contest, "Scatter" comments, plus the operators of the multi stations go to http://www.cqww-vhf.com/results.htm. You can also go to the *CQ* website at www.cq-amateur-radio.com and look in the "Contests" section.

Number/letter groups after call letters denote the following: Class (A = all band, 6 = 6 meters, 2 = 2 meters, 0 = ORP, H = hilltopper, R = rover, M = multi-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. Certificate winners are list-	KO3T M 40,470 303 114 PA FM19 W2GPS M 18,525 196 75 MD FM19 M40V A 86,670 507 162 FL EL96 M2CEL A 85,459 430 187 FL EM80 N3LL A 71,445 418 165 FL EL86 N3MK A 54,337 356 133 VA FM27 W4AS A 51,322 362 134 FL EL95 W4MYA A 49,750 326 125 VA FM07 W4RX A 47,904 344 96 VA FM19 AD4Z A 30,962 259 113 FL EL95 EL95 FM FM FM FM FM FM FM F	WB6BET A 330 20 10 CA CM98 W60MF A 300 18 12 CA CM98 KI6DVJ A 276 20 12 CA CM88 N4DLA A 90 11 6 CA CM87 KFGIA A 8 10 8 CA CM87 KFGIB 6 2,680 67 40 CA DM15 KGCSL 6 360 24 15 CA CM97 WSDO 6 208 16 13 CA DM15 WGSZN 6 154 14 11 CA CM97 KGOAK 6 136 17 8 CA CM97	WØPPF 6 480 24 20 IA EN41
Are listed separately. Certificate winners are listed in boldface.		W6SZN 6 154 14 11 CA CM99 K6DAK 6 136 17 8 CA CM97 K16FGV 6 80 10 8 CA DM03 K6KQV 0 403 23 13 CA CM87 WATTY A 6840 123 38 WA CN87 WATTY A 6840 123 38 WA CN87 WB78ST A 5966 107 38 WA CN87 KC71 A 3270 78 30 OR CN84 KD710 A 2265 58 29 WA CN96 K7DD A 2265 58 35 AZ DM34 K671 A 23065 58 35 AZ DM37 K77ULS A 7266 35 8 WA CN87 K77ULS A 726<	
WA3AFS A 1,560 46 30 NY FN32 W2JCN A 1,222 41 26 NY FN21 WA2BAH A 1,200 35 25 NY FN32 N2GKM A 936 43 18 NY FN31 N2GSP A 874 30 23 NJ FN20 K2AMI A 795 42 15 NJ FN20 KCZWUF A 726 30 22 NJ FN20	K40RD 6 660 33 20 VA FM07 NA4C 6 644 28 23 TN EM65 WBSMMZ 6 306 18 17 AL EM62 KN40D 6 238 17 14 SC EM94 N4JTC 6 196 14 14 FL EM70 N3UA 6 187 17 11 VA FM17 K1ZZI 6 176 16 11 GA EM74	K8GT 6 304 19 16 MI EN82 KBBUUZ 6 242 22 11 OH EN91 W8IDIM 6 209 19 11 OH EN81 W03X 6 160 16 10 OH EN91 N8DFS/P 6 154 14 11 MI EN82 N8DFS/P 6 7 7 1 OH EN91 NE8I 6 1 1 1 MI ENF4	GUATEMALA TG9ANF Q 4,646 101 46 EK44 PUERTO RICO NP3CW 6 4 2 2 FK68
KAZOON A 403 19 13 NJ FN20 N2DCH A 190 12 10 NY FN22 KCZWGX A 72 8 6 NY FN31 K1PRO/2 A 40 9 4 NJ FN21 WZMMD 6 34,578 306 113 NJ FM29 WZJJ 6 13,986 189 74 NJ FN21 NJ FN21	K4BAI 6 153 17 9 GA EM72 WB3.JKG 6 110 11 10 TN EM75 K4BSK 6 20 5 4 NC EM95 ND1Y 6 4 2 2 GA EM74 WK4P 2 256 16 8 NC EM95 K3TW 0 4,455 80 55 FL EL88 WOPV 0 4,134 78 53 FL EL87	N8XA Q 9,216 117 64 OH EM89 ACBAP Q 1,530 46 30 OH EN81 NBOE Q 6 2 2 OH EN91 NBZM M 35,152 256 104 OH EN80 WBPGW M 3,906 79 42 MI EN82 K2DRH A 167,400 668 200 IL EN41	MEXICO XE3N 6 48,510 385 126 EL60 XE2X 6 21,165 249 85 EL06 XE2MBW 6 16,744 184 91 DL95 XE2O 6 13,122 162 81 DL95 XE1XUE 6 3,403 83 41 EL00 XE2AU 6 49 7 7 DL81
(D; WAZYUN) (D; WAZYUN) (D; WAZYUN) (D; WAZYUN) (D; EW1AR) (D; EW1AR)	NZ1D Q 342 19 18 FL E198 KI4FW Q 260 26 10 VA FM18 W4BCU Q 78 9 6 TN EM86 W4MW M 82,399 423 131 NC EM96 W4WA M 54,656 323 143 GA EM84 W4NH M 43,152 315 124 GA EM84 W6SAI M 10,200 127 75 AL EM63	W9GA A 18,942 166 82 WI ENS3 N9LB A 14,848 146 80 WI EN52 K9CT A 12,284 127 74 IL EN50 KG9OV A 10,432 132 64 IL EM58 N9ISN A 9,280 135 58 WI EN44 NT9E A 8,176 102 56 IL EN52 WV9E A 7,315 98 55 WI EN43	TURKS & CAICOS ISLANDS VP5CW 6 52,393 433 121 FL31 (Op: W5CW) AFRICA
NZTEE 6 154 14 11 NY FN30 WAZPNII 6 117 13 9 NJ FN20 WAZPRII 2 396 22 9 NY FN02 WB2SIH Q 14,204 157 67 NY FN31 WZJEK Q 216 26 8 NJ FN20 KCZJRO Q 18 3 3 NY FN30	KFAPCT M 9,100 105 65 VA EM96 K4RFT M 1,316 47 28 TN EM56 N46M M 918 34 27 NC FM13 K4RST M 817 31 19 TN EM75 NRSM A 105,165 574 171 TX EM10	KC9BDA A 5,720 81 52 WI EN63 N2BJ A 4,539 83 51 IL EN61 KC9ELU A 3,040 51 40 IN EW79 N9TZL A 2,640 57 33 IL EN52 W9VA A 1,325 48 25 IL EN62 KSVS A 512 23 16 WI EN52	CANARY ISLANDS EABMT 6 11,172 133 84 IL27 EABAQW 6 7,500 100 75 IL28 EABACW/P 6 6,230 89 70 IL28 EABBQM 6 156 13 12 IL27
K2LIM M 81,620 408 140 NY FN12 WA2FGK A 85,813 434 161 PA FN21 (0p: K2LNS) K3ZO A 57,540 367 137 MD FM18 K3TUF A 19,684 190 74 PA FN10	WDSCOV	W9FX A 462 19 14 IL EM57 KG9N A 364 23 14 IL EM50 N9GH A 286 16 11 IL EN51 K9SAT A 104 10 8 IL EN61 N9XG 6 28,126 287 98 IN EM60 K09A 6 8.184 132 62 IL EM52	MADEIRA ISLAND CT3BD/P A 120 11 10 1M12 CT3FQ 6 20,240 176 115 1M12 CT3DZ/P 6 3,886 67 58 1M12 MOROCCO
K3MD A 11,725 134 67 PA FN10 W3GNO A 10,640 135 70 DE FM28 N3ALN A 9,632 141 56 MD FM19 K1DS A 9,150 130 50 PA FN20 W3LL A 7,488 118 52 MD FM19 H19 FM19 FM19 FM19 FM19 FM19	NW50 A 1218 41 29 TX EM13 W5TV A 1,044 33 29 TX EM13 K5WPN A 720 26 16 OK EM14 KCSM/VV A 280 20 10 TX DM93 AC50 6 29,116 251 116 LA EL49	KSWA 6 3 608 82 44 IL EN50 K9ZM 6 3,330 74 45 IL EN50 NSI 6 1,960 56 35 WI EN64 WB9HFK 6 1,584 44 36 IL EN50 AJ9C 6 352 22 16 IN EN70	CN8KD 6 4,158 77 54 IM63 ASIA ASIATIC RUSSIA RK9AT 2 360 15 12 L093
W3MEL	N5RZ 6 20,826 267 78 TX DM91	KBSYGD 6 132 12 11 IN EN61 K9CC 6 9 3 3 IL EN61 WUSQ 6 8 4 2 IL EN41 WBSZK 2 2,350 47 25 IN EN60 WBSZK 1 2,697 60 29 IL EN62 WSSZ 1 2,418 51 31 IL EN50	R79CJ
WB3IGR A 1,025 33 25 MD FM18 K3HX A 920 37 23 PA FN00 W4EE A 874 43 19 MD FM19 AF3I A 486 26 18 PA FN10 K3ISH A 208 14 13 PA FN21 K30Q A 186 24 6 MD FM19 N3AEA A 6 2 2 MD FM19	K5GM 6 2.516 68 37 TX EM10 K3TD 6 2.485 71 35 TX EM10 N5KM 6 1,218 42 29 TX EM13 KDSJ 6 945 45 21 AR EM45 ADSD 6 805 35 23 TX EM00 KC7QY 6 156 13 12 NM DIM64 NV4B/5 H 32 5 4 MS EM54	K9AKS Q 23,808 198 93 IL EM41 AF9J Q 6 2 2 WI EM52 W9RVG M 26,462 210 101 IL EM57 KØSIX A 32,970 261 105 MN EN35 KØTPP A 8,094 131 57 MO EM48 NØKE A 5,320 125 40 CO DM69	TA70M 6 87,69 474 185 LN00 TA7X 6 20,703 201 103 KN90 TA2AL 6 7,384 104 71 KN40 TA9J 6 4,368 91 48 KN71 TA7AB 2 216 12 9 LN00 LN00 TA7AB 1
W3BD 6 25,152 262 96 PA FM19 K2PLF 6 18,700 220 85 MD FM19 W3UR 6 11,088 168 66 MD FM19 K2PS 6 7,228 139 52 MD FM18	N3AWS Q 480 23 20 MS EM50 WA5BUC Q 340 20 17 TX EL29 K5QE M 187,392 651 244 TX EM31 KBØHH M 10,496 142 64 OK EM06	ΚΘΑΜΥΙ A 4,350 71 50 MN EN37 ΚΘΝR A 4,248 97 36 CO DM78 WØETT A 4,140 107 36 CO DM79 WØ2Q A 3,400 61 40 MN EN34 KV1E A 2,700 67 36 IA EN41	CHINA BD3CZX A 143 12 11 PM01 BA4SI 6 3,248 112 29 PM01 CYPRUS
WORSJ 6 7,000 125 56 PA FN20 W3DF 6 1,296 54 24 MD FM19 K3YG 6 36 6 6 PA FN10 K3YZ 2 13,132 134 49 PA FN01 N3AFT 2 110 11 5 MD FM19	KG6IYN	NØWLY A 2,106 46 26 NE EN10 KCOTDJ A 1,537 50 29 1A EN40 NØUY A 1,400 38 25 MN EN18 KØBBC A 760 31 20 MN EN34 NØEO A 665 34 19 MN EN36	C4M Q 29,412 258 114 KM64 (Op: 584AGM) JAPAN JA6WFM 6 2,688 84 32 PM52
KASKSP 2 50 5 5 PA EN90 W3ME0 H 130 13 5 MD FM18 W3P0 0 352 30 11 MD FM19 N4K0 0 4 2 1 PA FN00 W3S0 M 121,242 524 167 PA FN00	N6RZR A 2,475 63 33 CA CN80 KIGLJIW A 1,652 46 28 CA CM87 N6ZE A 912 36 24 CA DM04 N6TCZ A 646 32 17 CA DM03 KG6BCL A 407 27 11 CA DM04	KC8VF0 6 5,418 126 43 CO DM79 KB0YH 6 3,400 100 34 CO DM79 KF0UR 6 2,278 67 34 CO DM78 KS0AA 6 2,074 61 34 KS EM128	JEIBNJ 6 1,900 50 38 QMOS JK4DUJA 6 30 6 5 PM64 JM1NIKT 6 24 6 4 PM96 JG1WKM 6 9 3 3 PM96 JF2MBF 6 6 3 2 PM85

JH3DMQ JA1POS	Q Q	126 16	13 4	9 2	PM74 PM95	DL20M	A	33,109	RMANY	113	J030
HOO INF			AILAND			DL1ET DH5MM	6 Q	594 315	27 21	22 15	J031 J052
HS8JNF E29ICZ	2	4,592 2,760	287 230	8 6	NJ98 NJ98	DL1DBR	2	756	27	14	J041
HS3TLZ/P HS2TIJ E29UOO	2 2 2	1,330 1,236 1,180	95 103 118	7 6 5	0K06 0K02 0J07	SV2IPF	6	14,415	REECE 155	93	KN10
HS4NOR	2	1,088	68	8	OK16	SV2HWR SV2FLQ	6	6,976 1,290	109 43	64 30	KN10 KN10
HS1AXC HS3ANP	2 2 2	930 728 560	93 52	5 7 8	0K03 0K14	SV1DJG/P J48kef	M	56 22,363	8 189	7 107	KM17 KM08
HS3LSE E2ØMWE HS8JYX	2	536 186	35 67 31	4	0K14 0K03 NJ98	HAEOO			JNGARY		JN97
HS8VZW HS7WHB	2	138 132	23	3	0J08 NK92	HA500 HA3DX	A 6	7,250 28,820	220	50 131	JN96 (Op: HA5XH)
E21YDP E21QEB	2	60 52	10 13	3 2	0K03 0K03	HGØA	6	24,380	212	115	JN96 (Op: HA5JI)
HS1EFA E22KSJ	M	13,486 13,056	613 384	11 17	0K03 0K04	HA3LI HA5PT	6	5,229 300	83 20	63 15	JN96 JN97
HS4DWI E22SSS	M	13,024 7,470	407 249	16 15	0K16 0K04	HA2VR/P HG4UK/P	H	4,389 1,701	79 44	33 27	JN87 JN86
HS8KFW E22NCF	M	6,848 5,160	428 215	8 12	NJ99 OK16	HA1ZH HG1W	Q M	13,650 42,007	134 254	75 119	JN86 JN87
HS9YZT HS9JGQ	M	4,448 4,280	278 214	8 10	0J06 0K04	HA5KDQ HG6Z	M	28,542 20,176	220 194	71 52	JN97 JN97
HS4AK HS8FLU	M	4,000 3,444	200 287	10 6	OK16 NJ98			-, -	ITALY		
HS9XUF HS4WKA	M	2,304 1,540	192 77	6 10	0J06 0K06	IV3KKW IZ3DBA	6 6	3,332 1,020	68 34	49 30	JN66 JN55
HS9MMM HS3WWB	M	1,184 828	148 69	4 6	0J07 0K16	IZAZ IV3AOL	6 Q	360 168	20 14	18 12	JN45 JN65
HS7ZQK E22XUA	M	760 530	76 53	5 5	0K03 NK99				ININGR	AD	
HS6FUJ HS9XDF	R R	14,220 1,312	237 82	30 8	6 3	UA2FL RU2FM	Q Q	128 32	8 4	8 4	K004 K004
E21EIC HS4ROI	R	560 518	28 37	10 7	5 4			L	ATVIA.		
E2ØYLM HS3NWD	R R	104 72	13 18	4 2	2 2	YL3DR YL3FT	A 6	660 2,268	24 54	20 42	K026 K026
ACCRD		NITED A				YL2CP YL2AO	6	1,073 754	37 29	29 26	K027 K016
A65BP	6	9	3	3	LL75	YL3DX YL2PP	6	463 144	36 16	13 9	K027 K026
		Al	JROPE Jstria			YL2FZ YL2EC	6	80 1	10	8	K037 K006
OE4VIE OE6HLF	6	10,500 63	125 9	84 7	JN87 JN77	YL3AGV YL2CV	2 Q	108 240	9 16	6 15	K037 K016
OE1CWA/P	Ĥ	420	21	10	JN88	LY2SA	6	LIT 2.106	HUANIA 54	A 39	K014
ON5GS	2	8,316	LGIUM 99	42	J021	LYZSA LY1R LY7Z	6 Q	750 1,107	30 41	25 27	K014 K014 K015
ON2AD	Q	2	1	1	J021	LITZ	u		CEDON		KUIS
E7ØT	BO 6	SNIA AN 73,108	D HERZI	EGOVIN	A JN84	Z35F	6	5,280	88	60	KN11
E74A E77RW	6 Q	5,984 20,470	88 164	68 89	JN93 JN84	ER1DA	Q	M(323	OLDOV <i>A</i> 19	A 17	KN47
E71A E73DPR	Q M	2,280 13,013	57 143	40 91	JN93 JN92	ER5DX	Q	20	5	4	KN46
		BU	LGARIA			SP9DSD	Α	P 6,880	OLAND	40	J090
LZ1IQ LZ1FH	Q	1,050 418	35 22	30 19	KN12 KN12	SP70GP SP7AWG	A 6	406 5.952	17 96	14 62	K001 J091
		CI	ROATIA			SP7VC SO2F	6 6	1,488 792	48 33	31 24	J091 J093
9A3QB 9A3VM	A 6	3,813 5,544	67 88	41 63	JN95 JN92	SP3YM	6	132	12	11	(Op: SP2CNW) J091
9A6B	6	3,450	69	50	JN75 (Op: 9A2EU)	SP7FDV SP3GHC	6	49	7	7	J091 J082
9A1DL 9A4VM	6 2	121 6,552	11 126	11 26	JN95 JN85				RTUGA		
			REPUB			CT1BOL CT1DZY	6	910 72	35 9	26 8	IN51 IN51
OK1DC OK1KZ	A	30,590 2,616	205 68	95 24	JN69 J070	CR5M	Q	868	31	28	(Op: CT1DHM)
OK1AME OK1KCF	6 M	13,366 96	163 12	82 8	JN69 J070		_	R	OMANIA		
********			IGLAND	00	1004	YO3DDZ YO8BGE	A	5,824 208	78 13	56 13	KN34 KN36
MØMCV	ь	754 E	29 STONIA	26	J001	YO5LD YO2BCT/P	6	4,930 2,419	85 59	58 41	KN17 KN05
ESØTJC ES5NHC	2 Q	60	STONIA 6	5	K018 K038	YO8DDP YO2LEL/P	6	1,599 1,386	41 42	39 33	KN36 KN05
ES5E	M	6,840	74	60	K038	Y06ADW Y05CRQ	6	289 132	17 12	17 11	KN36 KN17
UA6AX	2	EUROP 2,340	EAN RU	SSIA 26	KN84	Y07CWP	6	36 S	6 ERBIA	6	KN14
R7NP UA3WM	2 2	1,824 1,638	45 57 39	26 16 21	LN17 K072	YT7WE YT2F	2 M	2,310 21,681	55 163	21 99	KN05 KN03
RW7A RN4AT	2	1,560 1,540	39 35	20 22	KN95 LN29	1125	IVI		SICILY	23	CUPIA
RA6A RA3SI	2	1,386 1,258	33 37	21 17	KN96 LOO4	IT9VDQ	6	5,192	88	59	JM68
UA4ALU RL3QDD	2 2	1,240 1,026	31 27	20 18	LN29 K091	OM3DX	6	SLOVA 1,110	K REPU	IBLIC 30	KN08
RW6AH RA4A	2	1,026	27 26	19 19	LN05 L020	OM5FA	Q	1,904	56	34	JN97
UA7C RW6HP	2 2	864 736	24 23	18 16	KN96 LN24	EA3AR	6	8,190	SPAIN 117	70	JN12
RL3D RL3F	2	720 630	40 35	9	K085 K095	EA5DIT EB5CS/P	6	8,092 5,700	119 95	68 60	IM99 IN90
UA6AQN RA3XX	2	560 494	20 19	14 13	KN96 KO84	EA1AR EA1WX	6	5,605 2,006	95 59	59 34	IN70 IN63
RA3EL UA6HHE	2	384 364	16 14	12 13	K082 LN05	EA5BY EA5YU	6	1,242 1,140	46 38	27 30	IM98 IM97
RK6BBB RK6AXN	2	352 336	16 14	11 12	KN96 KN94	EA5HT EB2RA	6	1,036 8	37 4	28 2	IM98 IN92
RV2FW/1 RA6EAG	2	256 140	16 10	8 7	K059 LN14	EC4AA EA3FHP	Q	221	16 3	13 2	IN80 JN11
RA4WO UA4BI	2	72 60	6	6 5	L076 LN28				WEDEN		
RW4WE RA4SD	2	40 18	5 3	3	L066 L036	SA1A	6	16	4	4	J097 (Op: SM1TDE)
RL3ZH UA4HQI	2	8	2	2	K080 L053	SM7I SM6WET	2 M	16 1,927	4 47	2 41	J065´ J068
RA4WX RA6LGV	2 Q	1, 638	1 39	1 21	L067 KN97	IIBaru-	_		TZERLA		
UA6AGK RK6ARD	M M	198 1,080	11 30	9 18	KN96 LN05	HB9VID	6	323	19 TUEDI	17	JN36
RZ6AZA	M	456	19	12	KN96	PA8KM	A	680	THERLA 25	20	J032
TA1DK	6	EUROP 7,412	EAN TUF 109	RKEY 68	KN41	PA5WT PAØO	6	4,400 1,365	80 39	55 35	J022 J033
•		,	RANCE	-		PA1TK	2	2,520	42 KRAINE	30	J022
FØFEK	2	1,276	29	22	JN19	UT810	Α	37,788	241	134	KN87
					'						

Next Generation from N6BT



Q52 2-Element 5-band (20/17/15/12/10) Yagi

- Instant relay-switched band switching.
- Bi-directional with instant relay switching.
- 16' elements, 3' sections, 9' boom, 9' turn radius.
- Integrated balun and SO-239 connector included.
- 1 KW power rating, weight only 17 pounds.
- 85-99% efficient on all bands (only 0.8 dB below "full size" on 20M, near full size performance on 17 - 10M).



PO Box 1859 Paso Robles, CA 93447 www.n6bt.com

UXØFF	Α	29,480	206	134	KN45	UT5UUV	Q	1.408	36	32	K050
UY500	Â	10.488	106	76	KN77	UTSER	ă	1.320	34	20	KN78
UY1HY	Â	8.640	122	50	K060	UU6JF	ă	690	23	15	KN85
	A		88	69				598	23 26	23	
UY9VY		7,935			KN68	UT7LK	Q				K080
UZ5Q	Α	7,260	89	66	KN77	UR6EC	Q	540	18	15	KN78
					(Op: UY5QZ)	UR7IM	Q	480	24	10	KN88
UT7EW	Α	6,240	86	60	KN78	US4ICL	Q	348	29	6	KN98
UT5VD	Α	2,345	44	35	KN68	UY2IW	Q	276	23	6	KN98
UT/R3BM	Α	434	19	14	KN19	UT3IK	Q	276	23	6	KN98
UR5ITU	Α	250	17	10	KN88	UR7INK	Q	180	18	5	KN88
UR5QU	6	30,810	237	130	KN77	US2IY	Q	170	17	5	KN88
UT7QF	6	26,741	221	121	KN77	US7IGN	Q	130	13	5	KN88
UY5LW	6	12,104	136	89	KN89	UT2IY	Q	60	10	3	KN98
UZ4E	6	11,954	139	86	KN77	US8ITS	Q	8	4	1	KN98
					(Op: UT5ERP)	UT1I	M	185,310	613	213	KN98
UT7Y	6	7,245	115	63	KN27	UU9A	M	109,482	477	213	KN64
					(Op: USØYW)	UW3E	M	39,650	240	130	KN78
UX6IB	6	5.429	89	61	KN87	UT2G	M	7,600	76	50	KN66
UZ5U	6	5.246	86	61	K072	UT4UWR	M	7.040	90	64	K050
					(Op: UT4UO)	UT1IZZ	M	190	19	5	KN97
UT8IM	6	4.218	74	57	KN87	US3ITU	R	26,298	246	54	9
EMØK	6	3.744	72	52	K030	US5ID	R	4.590	85	27	4
		- /			(Op: USØKW)	US6ISA	R	24	6	2	2
UT3UA	6	2.150	50	43	K050						
UW8SM	6	2.193	51	43	KN28			v	VALES		
UY5YA	6	1.656	46	36	KN77	MWØTDQ	6	25 V	VALES 5	5	1081
UT4XU	6	986	34	29	K040	MIMBIDA	0	25	ə	ð	1001
UT7UW/P	6	986	34	29	KN58						
UX4U	6	918	34	27	K050			SOUTH	I AME	RICA	
UW7LL	6	806	31	26	K080			AD	GENTII		
UR5KO	6	288	18	16	K030						0505
UT1IA	6	9	3	.3	KN87	LU1BJW	6	1	1	1	GF05
URØEQ	2	6.384	76	42	KN78						
US6IF	2	5.304	102	26	KN87			В	RAZIL		
UT5DV	2	4.860	81	30	KN18	PU2VGS	Α	30	8	2	GG66
UR3EE	2	4.080	60	34	KN88	PV8ABC	6	3,840	80	48	FJ92
US7IA	2	2,720	68	20	KN88	PV8AZ	6	3,015	67	45	FJ92
UT5JCW	2	2,720	45	30	KN64	PV8ADI	6	2.394	57	42	FJ92
UT3EK	2	1,330	35	19	KN78	PV8DR	6	984	41	24	FJ92
UR5FFC	2	1,260	30	21	KN56	PV8AX	6	32	8	4	FJ92
UT8LN	2	972	27	18	KN89	PU2MDY	2	4	2	1	GG66
	2	546	21	13	KN67	PV8RR	ā	8	8	1	FJ92
UT4EK	2					PU8TLS	ã	6	6	i	FJ92
UT5IL	2	340	17 12	10	KN88	PV8MM	ã	3	3	i	FJ92
US5WU	2	240		10 5	K020	ZV2K	M	84	13	4	GG66
US3ITD	2	230	23		KN98		•••	٠.		•	4400
UR4ISL	2	204	17	6 9	KN88			CI	IRACA	n	
UR5WCE		198	11		KN29	PJ2BVU	6	4.386	86	51	FK52
US6ITX	2	130	13	5	KN88	. 02500	J	7,000	00	٠.	11102
US5EY	2	128	8	8	KN67			CHE	CK LC	200	
US7IIV/M	2	16 9.163	4 116	2 77	KN98	The fell					CHOIT ENGLISS
UT7EL	Q				KN77						CU2JT, EA1HRR,
US5ID/P	Q	4,590	85 84	27 20	KN97 KN98						KE7UQL/P, KU8E, W2CH, Y03FOU,
US1IY											
	Q	3,360					000	z, 1 1 LILLIN	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	011011,	112011, 100100,
UY50N	Q	1,480	37	20	KN89	Y05KAS.	****	a, 1 1211EIC	, 117 141 ,	011011,	WZ011, 100100,

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