Results of the 2005 CQ WW VHF Contest

BY JOHN LINDHOLM,* W1XX

BlackBerry: A portable handheld computer with a mini-keyboard for sending and receiving e-mail.

LingonBerry: A portable interactive 3830 device for instant amateur radio contest reporting. Utilizes authorized Part 97 RF spectrum for both visual and audio interactive response.

Handbook of Fruitful Communications Devices [2005 Edition]

s has become traditional, the spring meeting of the Contest Quahogs of Rhode Island (CQRI) was devoted to a review of the popular CQ WW VHF Contest, held July 16–17, 2005. Thanks to the recent invention of the LingonBerry by OH-amateur Prof. Olaf Pikisilmä, two-way pictorial and audio exchanges were instantaneously available to all participants. The projection mode enabled all to view input on the screen right next to the mounted Quahogasaurus head unearthed by Fossilman from the Charlestown moraine.

Favorite Topic: Propagation

K4XR was first to offer: "Some fair openings for a few hours on 6 meters, but conditions were really flat on 2." K9GY "had an nice opening to Florida from 17–19Z on day two," while K9HUY in Florida experienced a "great opening on Sunday to make it all worthwhile." Multi-op station N4DXY noted "the band opened up nicely to the northeast on Sunday," while N2GKM found "6 meters fun on Sunday." Mountaintop multi W3SO "shut down at 10:45 PM local Saturday due to heavy electrical storms. The first

*48 Shannock Road, South Kingstown, RI 02879 e-mail: <w1xx@cox.net> operator back at the site Sunday morning phoned the others and excitedly reported the bands were wide open. Six-meter *E*-skip to the south and Caribbean continued throughout the day. Two meters never really opened up like that, but we worked south to EM85 and EM95. It seems the single operators opted for 6 meters over 2. Rover activity was good, as we were able to clean sweep many in each grid square they passed through. Activity was definitely up for this year's CQ WW VHF Contest."

On the DX side, EU powerhouse station OK1KIM "tried Multi-Single, making about 10 Qs on each band for some nice multipliers. On 2 meters, tropo openings to the west on late Saturday and even better Sunday morning produced some rare locators in England and France. Sunday afternoon 6 meters finally opened up to Italy, southern France, and Spain." VA3TSG "was bored until 6 meters opened up Sunday and then enjoyed the best results ever." Jody, VP5JM, who made it into lots of North American 6-meter logs, really "enjoys the contest when the band is open, since there are so many nice people on that band."

Newbies

One of the major attractions of the CQ WW VHF Contest is its appeal to newcomers. You don't need a whole shack full of gear to compete, as noted by HS7ZSX: "My first contest was very exciting, making contacts in central Thailand up to 400 km by VHF-FM with 10 watts limited power." And from Karn, E20ZFD: "This was my first time in the CQ WW VHF Contest. I was very happy to make so many QSOs . . . lots of fun."

Can it get any better than these father-and-son combos? Via KB3KJS: "First contest for my son Josh, KB3LTE. We had a blast. Josh got to experience a real nice *Es* opening on 6 meters

that lasted almost all day on Sunday." Meanwhile, new ham KE5ELU deputized "son KE5DUK to rover to a nearby grid intersection to activate four grid squares on FM simplex." Taking a cue from mass media advertising, Bill, W4GRW, found this contest to be "very special for me, operating with my 17-year-old son, Josh, W4WJF. I operated Single Op 6 meters, and Josh SO 2 meters. Result? Sandwiches for two, \$10; snacks for two, \$12; drinks for two, \$15; spending a weekend of quality time operating beside a great kid and contester, *priceless!*"

The Old Timer

Not to be denied his usual due, the "Old Timer" grabbed the D104 to compare VHF contesting to, of all things, basketball. An avid round-ball fan of Atlantic Coastal University, he explained how media game announcers continually fall into the use of meaningless clichés, which got him to thinking of comparable contesting usage. After the following comparison was presented (which impressed no one), the OT mercifully sat down.



Bob, KØNR, is the ultimate QRP portable "Hilltoppper" proponent. Here he's enjoying the fresh air operating in the 2005 CQ WW VHF Contest from Mt. Herman [CO] in DM79. This was a backpack hiking effort providing "a fun afternoon running radios in the mountains." (Photo by KAØDEH)

TOP SCORES WORLD

QRP HS9MBK/P*2,250 JH3DMQ1,003

Rover HS6RMY......16,740 E20MFV......13,860

Multi-Op OK1KIM293,940 CQ3A.....71,278 IQ2GM.......36.480 HSØAE......21,298 F6IFR......18,837

All Band SQ6ELV.....7,844 XE2ED2,226

6 Meters

EH2ARD	31,784
EH6VQ	22,890
CT1DHM	21,111
S51CK	15,879
TA2RC/P	13,398
VP5JM	13,157

2 Meters

DG3XA.....13,692 E20YGG12,782

USA

K2DRH	74,880	K9GY	8,325
W4WA	45,650	K9AKS	6,816
WA1HHN	45,486	WB2SIH	5,244
W1XX	42,315	NØURW	5,088
K3TUF	28,122	K1ZE*	2,610
W3DOG	27,645		
K4XR	25,840	Roy	ver
W2DAN	23,868	W4VHF	80,073
K9HUY	17,216	K9JK	23,754
W3ARS	15,540	WB8BZK	20,705
		W4TXS	16,530
6 Me	ters	W4SHG	10,366
K1TOL	70,144		
W2MMD	35,394	Mult	i-Op
WN1GIV	21 842	W3SO	90 883

Mult	i-Op
W3SO	99,883
K5QE	39,984
KB1DFB	16,284
N4DXY	14,916
K4ATM	14,120

*Hilltopper

KA1LMR30,969

WN1GIV.....21,842

2 Meters

QRP

QSO LEADERS BY BAND WORLD

Single-Op 50 MHz		Multi-Op 50 MHz			
EH2ARD	.274	CQ3A	432		
CT1DHM	.227	OK1KIM	224		
VP5JM	.223	F6IFR	207		
EH6VQ	.210				
S51CK	.201	144 MHz			
		OK1KIM	598		
144 MHz		HS1QKQ	512		
E20YGG	.581	HS0AE	463		
HS8GLR/9	.474	HS1CLE	422		
DK5DQ	.333	E20HWD	418		

USA

Single-Op 50 MHz		W3 KG
K1TOL	512	
W2MMD	347	
WN1GIV	326	
W1XX	309	W3
K2DRH	294	N4
W2DAN	264	K5
K9HUY	261	KB
W4WA	257	W1
WA1HHN	243	K4
KA1LMR	231	
144 MHz		W
W4WJF	170	K4

HS4DDQ/1234 HS9MBK/P.....225

Multi-Op 50 MHz
<g6iyn106< td=""></g6iyn106<>
N3MTC109
L .
E20HWD418
HS1CLE422

4DAT100
(5QE151
(B1DFB140
V1QI138
(4ATM135
144 MH7

144 MHz		W3SO	222
W4WJF	.170	K4ATM	109
K2DRH	.141	K5QE	103

Basketball Sports Clichés Applied to VHF Contesting By "The Old Timer"

VHF contesting

Operate multi-op.

Take some off time.

KW amplifier.

Has read the contest rules.

Use a good logging program.

Rogers the completed QSO

You've worked everybody!

and hits the "enter" key.

Two kHz from the calling frequency is clear. Check the SWR often.

Call CQ a lot.

Basketball

Let the game come to you. Knows how to play the game. Take what the defense gives you.

Take care of the ball. Starts with the point guard. Knows how to put the ball in the hoop. There is no "I" in team. Has tremendous up-side. There's a lid on the basket. Play within yourself.

Portables

The LingonBerry heard next from a very vocal group of stations, such as K7MDL, who "operated portable for five hours at 5300 feet at the Mt. Pilchuck [Washington state] fire lookout with just 5 watts with an FT-817." It took California's KQ6EE "six hours to hike up Mt. Baldy at 10,064 feet to have fun in the contest, working as far south as DM12 in Mexico." On the East Coast, NE1B "operated less than three hours from Mt. Washington in

K9ILT/Rover in Cheesehead-Land

By Tim, KØPG, and Pat, K9ILT, Sullivan

This year in order to do something a little different, we thought we would go north through the Cheese Curtain and run some Wisconsin grids along the Lake Michigan shore.

We took a scouting trip over the July 4th weekend and found a couple of good rover spots. Upper Lake Park in Port Washington would give us a great shot over Lake Michigan into MI, IN, OH, and ON with a great view from the lighthouse. However, there was a minor detail that we didn't know about until the day of the contest. The third Saturday in July is the annual "Fish Day," described as the world's largest outdoor fish fry and a major attraction ... blocked-off streets, a big parade, an arts and crafts fair held where? You guessed it. At Upper Lake Park!

With no vehicle access to the park and throngs of people, we lost our high spot. All the way there we had been rehearsing: "Who's the VE3? Would the W8 please try it again." So we had to find a different spot in a hurry. Keeping as close to the lake as we could, we eventually came to a dead-end with big trees between us and the lake. However, it was time to start the contest.

At the stroke of 1800Z we exchanged reports with N9UX/R, who was weak on 2 but with a booming signal on 6. Oh well. Since we had checked out the 2-meter beam on the analyzer before we left (it was perfect), it must have been conditions.

Hearing nothing on 2, we decided to head for Manitowoc in EN64. While traveling through EN63, KB9VQC called us on 6 with a huge signal... moving to 2, not a peep. With no luck CQing, we went to a park on the lake shore with a nice open shot east and south. W9GA was loud on 6 and weak on 2. We had to go to CW to complete with K2DRH on 2. Something was wrong! I took the coax off the amp and plugged in the analyzer. The needle pegged! No antenna!

Pat (the more agile one) knew the drill: climb up on the vehicle roof, wiggle the connector and balun; SWR 1.2:1... back in business. Upon further inspection later at our hotel in Sturgeon Bay, the coax adapter to the amplifier fell apart in my hands. After an appropriate fix we were off to EN65. On the "DeLorme" we located some nice spots where we worked lots of WI, IL, IN, and MI stations. A little later we drove out onto a lighthouse causeway for a bunch more Qs. Our best DX was K9ZO in EN50.

In search of food, the Coyote Roadhouse was our next adventure. The only place to park the rover-mobile was right out in front in plain sight. Anyone who has rovered knows what came next. It was straight from the scene in *Close Encounters of the Third Kind* when all the scientists did the glazed-over "Spielberg stare" at the spaceship and aliens.

Pretty soon a fellow who had been selected by the group at the bar approached us. Pointing to our 5-element 2-meter beam and KB6KQ 6-meter loop mounted on the roof tripod, he asked, "What's that for?" I replied, "There's a bear with a radio collar causing trouble. We're tracking him down." Then the waitress wanted her picture taken next to our vehicle.

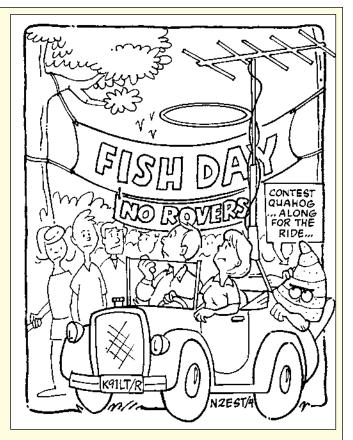
Expanded CQ WW VHF Results

For a listing of the ops and grids activated by the rover stations in the 2005 contest, plus the operators of the multi stations, go to <www.cq-amateur-radio.com>, to the Contests section, to "Expanded Results of the 2005 CQ WW VHF Contest."

FN44 using a 6-meter mobile whip and 4-element 2-meter beam." Meanwhile, NE1RD extolled the virtues of the QRP Hilltopper category, "working from atop Mt. Wachusett in FN42 with a cool breeze, cool drinks, and a great view."

K7XC "operated portable from a rented forest service lookout at Drake Peak in Oregon's CN92. It is an awesome location at 8220 feet with tropo contacts ranging from CM97 to CN97 all with 100 watts to a homebrew 4-element 6-meter Yagi and M² 2M9SSB atop a 30-foot trailer tower. Patience and persistence prevailed over wind, bugs, and Murphy, and nothing beats the smell of bacon and eggs cooking outdoors Sunday morning, thanks to the support of my lady, Rosie."

Portables were in evidence on the DX side as well, with TA2RC, who "planned a good operation from KM59. But two days of rain wiped out all access roads." Thus, Ozer "returned to KN50bv two hours before the contest start. After a pileup on



I tried to seriously explain that we were making contacts in a ham radio contest, but he'd have none of it: "My dad's a ham and his antenna's a whip-thing on a magnet. What you got there isn't ham radio." So I repeated the bear story, which he liked better.

We bagged it for the night and were on the road again by 1400Z heading south for EN54, 53, and 52. Six meters finally opened up when we were in Oconomoc. Signals were very loud and then they were gone, prompting Pat to observe, "I guess that's why they call it sporadic." As 2100Z approached, we spent the final 20 minutes making contacts in a Wal-Mart parking lot.

We had a lot more fun than our 7K score would indicate, but if it hadn't been for "Fish Day" and the bad adapter, we would have had a much better score. Wait 'til next year. Thanks to everyone who rode along with us and helped us enjoy the scenery in our favorite way. 73!



W4VHF (right) stopped by the CQ Dayton booth last year to pick up his plaque from contest director W1XX (left). Ted was first-place finisher with wife K4LVV in the Rover category for the fifth consecutive time in 2004, only to repeat again in '05. (W2VU photo)

6 in the first hour, the band closed until Sunday evening, but not enough for a good score."

Who Won?

Judging from the exuberant quotes, the answer is "everyone!" Scores do not tell it all, but then again making the biggest score possible is certainly an objective. Repeating as top U. S. scorer was K2DRH, who noted "in discussion with K9AKS in our post contest round table, it was a good thing this is a 27-hour contest instead of 24. Six meters finally opened up to the East Coast in a far-ranging and wildly cyclic feeding frenzy. It kept moving between New England FN grids and the Mid-Atlantic FM grids, with a few southeastern EM grids thrown in for good measure." Bob scored just under 75K points, followed closely by Lefty, K1TOL, operating only 6 meters,

with 70K. On the DX side, 2-meter singleband repeat winner DK5DQ led all singleops with nearly 40K points, while Spain's EH2ARD, operating just the "magic band," followed with 31K.

NC State student W4WJF out focused all U.S. 2-meter single ops with 170 Qs in 31 grids. The CQRI contingent did not fail to notice that all other 2-meter scores trailed significantly, underscoring the continued decline in 2-meter North American contest activity. Short of grounding all 6meter Yagis, how do we reverse this alarming trend on 144 MHz?

KA1LMR led the QRP crowd with a nice 30K score, while K1ZE and HS9MBK outpaced other Hilltoppers, who venture to far-flung locations often with their rigs on their backs to dispense rare multipliers.

Big-time multi-op stations fuel increased contest activity, and the ever-

2005 PLAQUE WINNERS
Single Operator USA All Band: Bob Striegl, K2DRH. Donor: Ted & Itice Goldthorpe, W4VHF & K4LVV USA 6 Meters: Lefty Clement, K1TOL. Donor: Todd Dravland, WDØT USA 2 Meters: Josh Fisher, W4WJF. Donor: CQ Magazine USA QRP: Christopher M. Merchant, KA1LMR. Donor: Bob Witte, KØNR World 6 Meters: Jon Sistiaga, EH2ARD. Donor: Dennis Motschenbacher, K7BV/1 World 2 Meters: Nicolas Exner, DK5DQ. Donor: Contest Quahogs of RI Asia 2 Meters: Natthida Suphon, E20YGG. Donor: Golden Kilowatt Council In Memory of Hans D. Hollstein, HSØ/KA3TDZ
Multi-Operator USA: Wopsononock Mountaintop Operators, W3SO. Donor: Bob Striegl, K2DRH World: Radioklub OK1KIM. Donor: Grid Pirates, K8GP Asia: HS0AE. Donor: Siam DX Group
Rover USA: Ted & Itice Goldthorpe, W4VHF [+K4LVV]. Donor: W3SO, Wopsononock Mountaintop Operators

GRID MULTIPLIER LEADERS BY BAND

wo	RLD
Single-Op 50 MHz EH2ARD 116 EH6VQ 109 CT1DHM 93 S51CK 79 TA2RC/P 77 Z36W 72 144 MHz DK5DQ 60 DG3XA 42	Multi-Op CQ3A
D00////	
U	SA
Single-Op 50 MHz K1TOL	WA1HHN
K2DRH85 W4WA76	50 MHz
WA1HHN	W3SO

enthusiastic W3SO team again posted the best North American score with just a shade under 100K points. Team OK1KIM did the same on the DX side with a whopping 293K score, and Madeira's CQ3A was second with a nifty 71K.

For the sixth consecutive year, W4VHF/R [+K4LVV] won the Eukanuba® award, activating four grid locators for a score of 80K. Meanwhile, Thailand discovered the joys of rover operation, with HS6RMY, H20MFV, and others posting nice scores.

For "the rest of the story" (scorewise) see the top scores, QSOs, and grid boxes, the plaque winners, and the *complete* scores listing for *all* logs submitted.

Math 101

The CQRI members gave a rousing round of applause for NC1C, without whose logprocessing software these results would not appear. Dave reported a banner year for entries. A record 303 valid logs were submitted, with 30,790 claimed QSOs— 100% cross-checked for accuracy. Error rates were pretty much unchanged from previous years: Invalid or "not in log" 1.1%; Dupes 0.2%; "Busted" calls 1.3%; Overall error rate 3.1%. 9971 different callsigns were logged, with 4310 making at least two QSOs. 664 different grid locators were reported active. All the numbers indicate a healthy 25% increase in activity, not bad considering the smattering of enhanced propagation. CQ VHF is on the move! Also acknowledged for his able assistance is Bruce, WA7BNM, who continues to make CabForms available to those folks who enter their paper logs online—much to the relief of the volunteer data-entry team.

2006 CQ VHF Contest

Before breaking up for coffee and donuts, the contest director took the podium to remind everyone of the upcoming 2006 CQ WW VHF Contest, July 15–16. The full announcement will appear in the June issue of *CQ*, on the CQ website, and on the new contest dedicated website: <www.cqww-vhf.com>. This website has all updated information relative to the contest thanks to its multi-tasking webmaster, NC1C.

With the appointment of regional coordinators worldwide, using E21EIC's program in Thailand as a template, CQ VHF is gaining increased recognition as a viable member of the CQ World-Wide family of contests. With thousands of entrants in CQ-sponsored DX, 160, RTTY,



VHF Contesting in Thailand

By Fred Laun, K3ZO/HSØZAR

Look at all those happy faces! I recently had the pleasure of a month-long trip to Thailand which included the December meeting of the Radio Amateur Society of Thailand. Usually the monthly RAST meeting is attended only by a few old-timers. This time the meeting was mainly given over to the presentation of certificates and awards to participants in the 2004 CQ WW VHF Contest.

What a blast! Thanks to the contest, the meeting was infused with the youthful spirit of contest participants. Contest coordinator Champ, E21EIC (far right in the photo), emceed the awards ceremony. The Hans Hollstein Memorial Plaque, held by HF/VHF contester Yod, HSØXNO (center), was won by YL operator E21DKD, who could not attend. The woman next to him in the photo is long-time RAST President Mayuree, HS1YL.

Standing to my right (I'm the tall guy in the center) is John, HS1CHB, who started the idea of mass Thai participation in the CQ VHF Contest in 1996. This was a result of brainstorming between him and me on how we could bring contesting to the vast majority of Thai hams "frequency-locked" on 2-meter FM. Champ, E21EIC, has done a magnificent job in promoting competition in recent years, especially among young people at universities.

It might even be said that CQ, through its VHF contest, has done more to encourage youthful enthusiasm for amateur radio in Thailand than any other institution.

and WPX contests, we should expect the same for our VHF contest. Talking up the contest at your club meetings, Elmering a contest "newbie," or sponsoring a plaque, contribute to more fun and Qs for everyone. Are you doing your part?

With that, all the LingonBerrys were turned off 'til post-contest reporting time. 73, John, W1XX

QRM

Caught bits of the contest during a family trip to the lake with an IC-706MKIIG to a 3-element at 10 feet on 6 and an omni on 2. As a result, son, age 7, now wants to study for his license! . . AA4ZZ. Nice 2-meter enhancement just before midnight to the west. Those who thought the bands closed Saturday night after 2130 local missed a lot. Six opened up twice on Sunday...AK4FL. I think I was the best station from northern Europe in the contest. Not much activity from Scandinavia, so I missed many multipliers. This was my first CQ WW VHF Contest. My station is near the Hamburg-Bremen Motor Speedway, so I heard many Harley-Davidson motorbikes for their biker meeting of nearly 10,000 participants, creating a high noise level! Best DX was G4PSU/P at 795 km...DG3XA. Ran an FT-817 with 5 watts out, plus a homebrew 4-element Yagi after the DK7ZB design. Overall activity low, as the contest is not known well enough yet in EU . . . DH8BQA. Unfortunately a lightning strike before the contest disabled much of my station.

DH8BQA. Unfortunately a lightning strike before the contest disabled much of my station. But managed to recover for 6 hours of contest operating. Lots of fun . . . **E20YLM/4.** Best DX UX8ER, KN70do at 2667 km . . . **EA3FM.**

I am very happy to be QRV in CQ WW VHF every year. This year we had many new Thai hams QRV in the contest ... HSØXNO. I was very excited to be in the CQ WW VHF Contest for the first time. I've been licensed 18 years but this was the first time in the contest . . . HS1VSB. I met many old and new friends in the contest. A lot of fun ... HS6MCB. First time in the contest and a very good experience . . . HS7QLZ. Fun time and good 6-meter openings operating from my SUV on a nearby hilltop for the weekend . . . KA1LMR. This was my first contest and I had a good time. The goal I set for myself was 1000 points. Will do better next time ... KA3DQD. Good conditions except for a bit of QRN from thunderstorms in the area.

... **KB8U.** I was QRV on a mountaintop on Phuket Island, IOTA AS-053. What a view ... **HS8KAY.** Very, very nice contest. Conditions got better Sunday afternoon increasing the 50 MHz score ... **I2AZ at IQ2GM.** A very limited part-time operation while on vacation with the family on Cape Cod ... **K3IXD.** Six-meter band was very quiet on the West Coast, so there were not many QSOs ... **K6JRA.** Only worked the contest for a short time, but had lots of fun

... **KG4NEP.** Zero propagation but at least a fair turnout of locals to keep activity up over the entire duration of the contest. The nice pace allowed time to encourage others to join in the good time. Contest probably needs a little more publicity ... **KG6IYN.**

First 6-meter contest. Tough conditions but had a great time ... **KI4AOC.** My first contest. Great learning experience. Look forward to next year ... **KI4HRF.** QRP = no TVI = lotsa fun! ... **KR1ST.** Only operated 4 hours but it was fun. Hope to operate more next time ...

N1CJG. Fun to work VP5 in one call and a few FL, MS, GA, and AL grids . . . N3UM. Naturally the aurora waited until after the contest . . . N6KW. Was in the contest the first hour to give out points, then away 'til 1740Z when I arrived home to find 6 meters open. So I had fun 'til the end of the contest ... VE3CRU. Worked a few new grids . . . VO1AU. The start of the contest was quite slow, just picking up as many locals as possible. On Sunday morning at about 1305Z the fun really started. Worked most of FL, GA, AL, TN, and the Carolinas with a few in EN41 off the side of the beam. Then snagged VP5JM. After a break for lunch, there was another opening to the northern part of 4-land. Got KØHA in EN10 just before the band closed at 2019Z. Spent the last 35 minutes on 2 meters looking for a few more Qs; W3DOG was a nice surprise from FM28. Overall, it was a really fun and exciting contest for me . . . W2AJM. Had other commitments but managed to get on early Saturday and Sunday afternoon. There were good 6-meter openings to the south. I even had several CW QSOs. Two meters was very sparse even though most signals were very good. Guess everyone opted for 6 meters. Keep the two-band concept! . . . W2UDT.

Unfortunately bad conditions, but good enough I hope for one more first-place singleop score from Mexico ... XE2ED. My first time in this contest. No propagation but it was fun with some interesting QSOs ... XE2K. My second time in the the CQ WW VHF Contest. It was difficult since the temperature in the shack was more than 40° C. Anyway, I had fun and it was nice to hear some old friends on the magic band. See you next year ... Z36W. Thanks to all concerned in running the contest ... ZC4LI.

Number/letter groups after call letters denote the		10 PA FN10 KG6IYN 41 PA FN10 KC6ZWT	A 6,137 217 19 CA DM12 A 1.302 39 21 CA CM98	ITALY IQ2GM M 36,480 223 114 JN4
following: Class (A = all band, 6 = 6 meters, 2 = 2 meters, Q = QRP, $Q^* = QRP$ portable hilltopper,	W3GNQ 6 340 20	17 DE FM28 KF6YYV 8 DC FM18 KC6SEH	A 1,010 70 10 CA DM03 A 152 13 8 CA CM98	IV3ZLT M 1,302 36 31 JN6
R = rover. M = multi-operator), Final Score, Number of QSOs, Number of grid locators, State (Dravings (USA)(canada calls), Grid Locators	K3ZO 6 48 8	8 MD FM18 WA6MBL 6 MD FM18 K6JRA	6 230 46 5 CA DM03 6 1 1 1 CA CM87	MACEDONIA Z36W 6 9,720 135 72 KN11
State/Province (USA/Canada only), Grid Locator or Number of grids activated (rover only). Rover	W6AXX 2 1,564 46	28 MD FM19 KQ6EE 17 MD FM19 KG6TGI 2 PA FN20	Q* 590 40 10 CA DM14 Q* 20 5 4 CA DM13	NETHERLANDS
scores for USA are listed separately. Certificate winners are listed in boldface. * Is a Hilltopper.	K30Q Q 378 20 W3S0 M 99,883 529 13	14 MD FM19 K7XC 33 PA FN00 WA7TZY	A 4,329 76 39 NV CN92 A 3,186 76 27 WA CN87	PE2TET 6 143 13 11 J032
2005 VHF RESULTS	KB3KJS M 2,656 66	47 PA FN11 N6KW 32 MD FM19 N7DB 22 MD FM19 KI7JA	A 3,036 87 23 WA CN87 A 1,700 60 17 OR CN85 A 1,488 54 16 OR CN85	POLAND SQ6ELV A 7,844 110 53 J080 SP6MLK 6 1,428 42 34 J080
NORTH AMERICA UNITED STATES W1XX A 42.315 356 105 RI FN41		10 GA EM84 W7MGC	A 1,360 53 16 WA CN85 A 1,105 36 17 WA CN87	PORTUGAL
W1XX A 42,315 356 105 RI FN41 W2DAN A 23,868 285 78 RI FN41 W1RZF A 13,333 162 67 MA FN42	K4XR A 25,840 258 8	85 AL EM64 KG/P 64 EL EL86 W70JT	A 369 27 9 WA CN87 A 147 11 7 AZ DM24	CT1DHM 6 21,111 227 93 IN61 ROMANIA
N1ZN A 6,837 117 53 CT FN31 K1TR A 3,306 72 38 NH FN42	KN4SM A 13,904 138 WB4WXE A 11,078 166	79 VA FM16 K7ZD 58 AL EM74 K7MDL	A 115 18 5 AZ DM33 Q* 1,064 50 14 WA CN87 Q 6 2 2 UT DM37	KOIVIANIA YO3CZW 6 238 17 14 KN34
N4CW/1 A 2,640 67 33 ME FN53 NE1B A 1,155 43 21 NH FN44 KC1MA A 1.116 46 18 MA FN51	NJ2F A 8,918 159	49 FL EL96 49 NC EM05 KB8U	A 12,716 138 68 MI EN71	SLOVAKIA OM5MX 2 1,952 61 16 JN98
KC1MA A 1,116 46 18 MA FN51 N1ZMB A 609 26 21 MA FN42 N1CJG A 570 24 19 CT FN31	KO4MA A 5,160 112	43 FL EL88 K8MR 44 FL FL99 KF8QL	A 1,664 45 26 OH EN91 A 1,600 42 25 MI EN72 A 1,600 42 DO H EN90	SLOVENIA S51CK 6 15,879 201 79 JN76
WA2BTR A 351 20 13 ME FN54 KV1J A 252 16 14 MA FN44	K4FJW A 2,886 80 2	NC EM95 N8BJQ 31 NC EM95 W8IDM 26 VA EM86 K8AB	A 558 23 18 OH EN80 A 364 21 14 OH EN91 A 340 21 10 OH EN91	S57S Q 100 10 10 JN76 S56PBZ Q 1 1 1 JN76
W1CRK A 180 14 10 MA FN41 K1TOL 6 70,144 512 137 ME FN44 KB1JDY 6 840 40 21 CT FN41	KI4AOC A 1,395 40 3	30 VA FMIT7 W8KNO 31 SC EM92 W8KNO 24 VA FM08 KG6URI	A 60 6 6 OH EN91 A 6 2 2 MI EN82	SWEDEN
K5ZD 6 1 1 1 MA FN42 K1ZE Q* 2,610 60 29 CT FN31	K4FTO A 1,197 40 2	21 VA FM18 AJ1M 22 NC EM95 K8GT	6 108 12 9 WV FM08 6 54 9 6 MI EN82 6 6 3 2 MI EN82	SA1A 6 168 14 12 J097 SM1TDE 6 1 1 1 J097
NE1RD Q* 630 35 14 MA FN42 KA1LMR Q 30,969 282 93 NH FN43	KU4VQ A 741 27	10 FL EL79 KB8UUZ 19 FL EL99 KB8UUZ	6 6 3 2 MI EN82 6 6 3 2 OH EN91 2 182 13 7 MI EN83	SPAIN EH2ARD 6 31,784 274 116 IN93
KB1DFB M 16,284 188 69 CT FN41 W1QI M 12,104 158 68 CT FN31	K9TWP A 364 19	23 NC FM05 N8XA 14 VA FM18 N8XA 15 NC FM96	Q 96 10 6 OH EM79	EH3ATO 6 4,536 84 54 JN02 EH5HT 6 3,822 78 49 IM98 EH5GLN 6 3,332 68 49 IM98
K1JT A 9,536 132 64 NJ FN20 KA2CYN A 8,662 128 61 NY FN31	WB4YDL A 336 22 W4NE A 160 12	14 TN EM56 K2DRH 10 SC EM84 N9ZO	A 74,880 435 130 IL EN41 A 11,264 127 64 IL EN50 A 1.122 33 22 IL EN52	EH5GLN 6 3,332 68 49 IM98 EA3FM 6 2,145 55 39 JN11 EH1ATQ 6 238 17 14 IN73
W2UDT A 8,468 123 58 NJ FN20 W2AJM A 6,273 107 51 NY FN21	WN1GIV 6 21,842 326 6	67 FL EL96 KC9SCH	2 160 10 8 IL EM59 Q* 209 13 11 IL EN51	EA1TI 2 416 16 13 IN73
N2GKM A 1,953 48 31 NY FN31 KC2MHU A 1,484 42 28 NY FN12 W2CXM A 814 34 22 NY FN12	W4GRW 6 6,786 174 3	46 FL EL87 K9GY 39 NC EM96 K9AKS	Q 8,325 161 37 IL FM08 Q 6,816 99 48 IL EN41	TURKEY TA2RC/P 6 13,398 174 77 KN50
W2CXM A 814 34 22 NY FN12 W5KI A 494 25 19 NJ FM29 W2MMD 6 35.394 347 102 NJ FM29	WK4Y 6 2,850 75 3	38 VA FM17 N9DG	Q 680 24 17 WI EN53	TA2MW/P 2 518 37 7 KN50 TB1CAK 2 84 14 3 KN41
NA2R 6 3,740 85 44 NJ FN20 K2CS/P 6 1.960 56 35 NY FN23	KD4QIT 6 1,792 64 2	28 VA FM17 KØAWU 22 GA FM12 W6OAL	A 2,542 65 31 MN EN37 A 497 49 7 CO DM79	TA1BM 2 70 7 5 KN40 TA2RX Q* 108 18 3 KN40
N2GDY 6 736 32 23 NY FN31 KC2HZW 6 170 17 10 NY FN30		28 VA FM16 NØPOH 25 NC FM15 KØNR	A 315 30 7 CO DM79 A 176 29 4 CO DM79	TA7KA M 3,154 83 38 KN91
KA2BXH 6 160 16 10 NJ FN20 N2SLN/M 6 4 2 2 NY FN22		20 SC FM02 KØCF 18 GA EM72 NØURW	6 228 19 12 IA EN41 Q 5,088 79 48 IA EN41	UKRAINE UR5QU 6 6,667 113 59 KN77
WB2SIH Q 5,244 85 46 NY FN31 WV2ZOW M 4,730 78 43 NJ FN20	K3IXD/R 6 12 4	3 SC FN41 WVØH	M 2,664 53 37 NE EN10 M 1,130 80 10 CO DM79	UXØFF 6 5,280 88 60 KN45 UT7U 6 2,911 71 41 KO40
	WB3DPR 6 0 0	0 FL EL98	Rover	UX8IR 6 918 34 27 KN87
WA1HHN A 45,486 321 114 PA FM19 K3TUF A 28,122 249 86 PA FN10	KU4BP/4 Q* 484 22	31 NC EM96 W4VHF 11 NC EM96 K01K	80,073 445 123 4	UT2UB 6 616 28 22 KO50 US90A 6 589 31 19 KN77
W3DOG A 27,645 239 95 DE FM28 W3ARS A 15,540 171 70 MD FM19		AL EM64 K9JK 20 SC EM92 WB8BZK	20,705 136 101 12	UR5FAV 6 374 22 17 KN45 UY5ZZ 6 247 19 13 KN77
W3ZZ A 12,032 155 64 MD FM19	N4DXY M 14,916 197 6	66 AL EM62 W4TXS	16,530 146 87 6 10,366 101 71 4	UT5UKY 6 48 8 6 K050 UT7E 2 96 16 3 KN78
W3MEL A 7,644 115 52 PA FN10 K3ISH A 7,502 113 62 PA FN21 K400		40 NC EM95 K9ILT	6,784 79 53 6 2,852 60 31 4	
W3LL A 4,992 104 39 MD FM19 KB3JGS A 4,712 92 38 PA FN20	NM5M A 110 15	5 TX EM13 AA4S	1,980 42 33 4 1,922 62 31 3	ASIA JAPAN
KB3HQX A 1,271 37 31 PA FN22 KA3DQD A 925 35 25 DE FM29		22 MS EM42 W6KA	1,820 45 26 3	JR5XPG A 1,300 46 20 PM74
N3UM A 820 31 20 MD FM18	KE5ELU 2 40 5	4 AR EM34 K8DUG	1,421 33 29 3 1,365 39 21 6	JI7GBI A 6 2 2 QM08 JE6GZH 2 2 1 1 PM53
KB3EXB A 392 23 14 PA FN10	K5QE M 39,984 254 11	12 TX EM31 K1DS W4YOE	880 34 20 336 23 12	JH3DMQ Q 1,003 46 17 PM74 JH7IMX Q 6 2 2 QM08

On the Cover

Walking into Ron Lawrence's converted two-car garage is like walking into a radio museum. Well, maybe not. Ron, KC4YOY, of Wesley Chapel, North Carolina, probably has a bigger and better collection than most radio museums! To get a full sense of the size of Ron's collection, you'll have to go to his website, <www.radioheaven.homestead.com>, and see the two photos that CQ cover photographer Larry Mulvehill, WB2ZPI, shot with his "fisheye" lens. It is truly amazing!

In the photo on our cover, Ron is spinning the tuning dial of his 1934-vintage firstgeneration National HRO receiver, part of a 1930s-era ham station built around the very rare transmitter on the shelf above. It's a Clough-Brengle model 4581, also built in 1934 and, according to Ron, one of only two known to exist. Ron says Clough-



KC4YOY's very rare Clough-Brengle transmitter.

Brengle was a well-known test equipment manufacturer in the '30s, but also built some of these transmitters under contract to the Civilian Conservation Corps (CCC).

"There's a switch on the upper left of the transmitter labeled "Amateur/Official," says Ron, who explains that most of the radio operators recruited into the CCC were hams, coaxed along by permission to operate on the ham bands when off duty, as well as by radios designed to let them do that! While Ron says the HRO receiver is hooked up and working, he has not even tried to put the Clough-Brengle on the air. "I have not transmitted on it," says Ron. "It's a museum piece. To butcher it up to transmit on it would be sacrilege to me." Ron is working on histories of both Clough-Brengle and the use of radio by the CCC. (Cover photo by Larry Mulvehill, WB2ZPI)

K7XC WA7TZY	A	4,329 3,186	76 76	39 27	NV WA	CN92 CN87	PEZIEI	0	143	13		JU32
N6KW	Α	3,036	87	23	WA	CN87	SQ6ELV	А	P 7,844	OLAND 110	53	J080
N7DB KI7JA	A A	1,700 1,488	60 54	17 16	OR OR	CN85 CN85	SP6MLK	6	1,428	42	34	J080
W7MGC WB7BST	A A	1,360 1,105	53 36	16 17	WA WA	CN85 CN87			PO	RTUGAI	L	
KG7P	Α	369	27	9	WA	CN87	CT1DHM	6	21,111	227	93	IN61
W7OJT K77D	A	147 115	11 18	7	AZ AZ	DM24 DM33			R	MANIA		
K7MDL	Q*	1,064	50	14	WA	CN87	YO3CZW	6	238	17	14	KN34
KD7WPJ	Q	6	2	2	UT	DM37				OVAKIA		
KB8U K8MR	A A	12,716 1,664	138 45	68 26	MI OH	EN71 EN91	OM5MX	2	1,952	61	16	JN98
KF8QL	Α	1,600	42	25	MI	EN72	S51CK	,		OVENIA 201	79	JN76
N8BJQ W8IDM	A	558 364	23 21	18 14	OH OH	EN80 EN91	S57S	6 Q	15,879 100	10	10	JN76 JN76
K8AB	Α	340	21	10	OH	EN91	S56PBZ	Q	1	1	1	JN76
W8KNO KG6URI	A A	60 6	6 2	6 2	OH MI	EN91 EN82				NEDEN		
AJ1M NF8M	6 6	108 54	12 9	9 6	WV MI	FM08 EN82	SA1A SM1TDF	6 6	168 1	14 1	12 1	J097 J097
K8GT	6	6	3	2	MI	EN82				SPAIN		
KB8UUZ K8MM	6 2	6 182	3 13	2 7	OH MI	EN91 EN83	EH2ARD	6	31,784	274	116	IN93
N8XA	Q	96	10	6	OH	EM79	EH3ATO EH5HT	6 6	4,536 3,822	84 78	54 49	JN02 IM98
K2DRH	А	74,880	435	130	IL	EN41	EH5GLN	6	3,332	68	49	IM98
K9ZO N9TZL	A	11,264 1,122	127 33	64 22	IL IL	EN50 EN52	EA3FM EH1ATQ	6 6	2,145 238	55 17	39 14	JN11 IN73
KC9SCH	2	160	10	8	IL	EM59	EA1TI	2	416	16	13	IN73
W9SZ K9GY	Q* Q	209 8,325	13 161	11 37	IL IL	EN51 FM08			Т	URKEY		
K9AKS N9DG	Q Q	6,816 680	99 24	48 17	IL WI	EN41 EN53	TA2RC/P	6	13,398	174 37	77 7	KN50
							TA2MW/P TB1CAK	2 2	518 84	14	3	KN50 KN41
KØAWU W6OAL	A A	2,542 497	65 49	31 7	MN CO	EN37 DM79	TA1BM TA2RX	2 Q*	70 108	7 18	5 3	KN40 KN40
NØPOH	Α	315	30	7	CO	DM79	TA7KA	м	3,154	83	38	KN91
KØNR KØCF	A 6	176 228	29 19	4 12	CO IA	DM79 EN41			1.0	RAINE		
NØURW NØUNL	Q M	5,088 2,664	79 53	48 37	IA NE	EN41 EN10	UR5QU	6	6,667	113	59	KN77
WVØH	M	1,130	80	10	CO	DM79	UXØFF UT7U	6 6	5,280 2,911	88 71	60 41	KN45 KO40
			Rover				UX8IR	6	918	34	27	KN87
W4VHF		80,073	445	123		4	UT2UB US9QA	6 6	616 589	28 31	22 19	K050 KN77
K9JK WB8BZK		23,754 20,705	144 136	107 101		12 12	UR5FAV UY577	6 6	374 247	22 19	17 13	KN45 KN77
W4TXS		16,530	146	87		6 4	UT5UKY	6	48	8	6	K050
W4SHG K9ILT		10,366 6,784	101 79	71 53		6	UT7E	2	96	16	3	KN78
N6TEB AA4S		2,852 1,980	60 42	31 33		4 4				ASIA		
NE90		1,922	62	31		3	IDEVDO			APAN	~~	0.477
W6KA		1,820	45	26		3	JR5XPG	A	1,300	46	20	PM74 QM08
K8DOG			33	29		3	JI7GBI	Α	6	2	2	
N7EIE		1,421 1,365	39	21		3 6	JE6GZH	2	2	1	1	PM53
		1,421					JE6GZH JH3DMQ JH7IMX	2 Q Q	2 1,003 6	1 46 2	1 17 2	PM53 PM74 QM08
N7EIE K1DS		1,421 1,365 880 336	39 34 23	21 20 12			JE6GZH JH3DMQ	2 Q	2 1,003	1 46	1 17	PM53 PM74
N7EIE K1DS W4YOE VE3KZ	A	1,421 1,365 880 336 C. 7,008	39 34 23 ANADA 120	21 20 12 48	ON	6 FN03	JE6GZH JH3DMQ JH7IMX JA7YCQ	2 Q Q M	2 1,003 6 12 TH	1 46 2 4 AILAND	1 17 2 2	PM53 PM74 QM08 QM08
N7EIE K1DS W4YOE	A A 6	1,421 1,365 880 336 C	39 34 23 ANADA	21 20 12	ON ON ON	6	JE6GZH JH3DMQ JH7IMX JA7YCQ E2ØYGG	2 Q M 2	2 1,003 6 12 TH 12,782	1 46 2 4 AILAND 581	1 17 2 2 11	PM53 PM74 QM08 QM08 OK03
N7EIE K1DS W4YOE VE3KZ VE3SPW VE3CRU VA3TSG	A 6 6	1,421 1,365 880 336 C. 7,008 966 1,344 1,175	39 34 23 ANADA 120 34 56 47	21 20 12 48 21 24 25	ON ON ON	6 FN03 FN04 FN03 FN03	JE6GZH JH3DMQ JH7IMX JA7YCQ E2ØYGG HS8GLR/9 HS4DDQ/1	2 Q M 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616	1 46 2 4 AILAND 581 474 234	1 17 2 2 11 6 12	PM53 PM74 QM08 QM08 OK03 OJ07 OK03
N7EIE K1DS W4YOE VE3SPW VE3SPW VE3CRU VA3TSG W1AJT/VE3 VO1AU	A 6 6 6 6 6	1,421 1,365 880 336 C. 7,008 966 1,344 1,175 874 180	39 34 23 ANADA 120 34 56 47 38 15	21 20 12 48 21 24 25 23 12	ON ON ON NL	6 FN03 FN04 FN03 FN03 FN04 GN37	JE6GZH JH3DMQ JH7IMX JA7YCQ E2ØYGG HS8GLR/9	2 Q M 2 2 2	2 1,003 6 12 TH 12,782 5,688	1 46 2 4 AILAND 581 474	1 17 2 2 11 6	PM53 PM74 QM08 QM08 OK03 OJ07
N7EIE K1DS W4YOE VE3KZ VE3SPW VE3CRU VA3TSG W1AJT/VE3	A 6 6 3 6	1,421 1,365 880 336 C. 7,008 966 1,344 1,175 874	39 34 23 ANADA 120 34 56 47 38	21 20 12 48 21 24 25 23	ON ON ON	6 FN03 FN04 FN03 FN03 FN04	JE6GZH JH3DMQ JH7IMX JA7YCQ E2ØYGG HS8GLR/9 HS4DDQ/1 E21YDP HS4FHT HS6MCB	2 Q Q M 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616 4,224 2,808 2,790	1 46 2 4 AILAND 581 474 234 132 117 93	17 22 11 6 12 16 12 15	PM53 PM74 QM08 QM08 OK03 OK03 OK03 OK03 OK16 OK05
N7EIE K1DS W4YOE VE3KZ VE3SPW VE3CRU VA3TSG W1AJT/VE3 VO1AU VE2DC	A 6 6 6 6 2	1,421 1,365 880 336 C. 7,008 966 1,344 1,175 874 180 84	39 34 23 ANADA 120 34 56 47 38 15 7 7 IEXICO	21 20 12 48 21 24 25 23 12 6	ON ON ON NL	6 FN03 FN04 FN03 FN03 FN04 GN37 FN35	JE6GZH JH3DMQ JH7IMX JA7YCQ E20YGG HS8GLR/9 HS4DD/1 E21YDP HS4FHT HS6MCB HS6TUX HS1VSB	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616 4,224 2,808 2,790 2,136 1,656	1 46 2 4 AILAND 581 474 234 132 117 93 89 69	17 22 11 6 12 16 12 15 12 12	PM53 PM74 QM08 QM08 OK03 OK03 OK03 OK03 OK05 OK05 NK96 OK16
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N7EIE K1DS W4YOE VE3SPW VE3SPW VE3CRU VA3TSG W1AJT/VE3 VO1AU VE2DC XE2ED	A 6 6 6 2 2 A	1,421 1,365 880 336 C. 7,008 966 1,344 1,175 874 180 84 N 2,226	39 34 23 ANADA 120 34 56 47 38 15 7 MEXICO 109	21 20 12 48 21 24 25 23 12 6	ON ON ON NL	6 FN03 FN04 FN03 FN04 GN37 FN04 GN37 FN35	JE6G2H JH3DMQ JH7IMX JA7YCQ E2ØYGG HS8GLR/9 HS4DD0/1 E21YDP HS4FHT HS6MCB HS6TUX HS1VSB HS2WPJ HS4BP0/9 HS5AYO	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616 4,224 2,808 2,790 2,136 1,656 1,250 1,056 918	1 46 2 4 AILAND 581 474 234 132 117 93 89 69 125 132 51	1722 11612 1612 1612 1254 9	PM53 PM74 QM08 QM08 0107 0K03 0K03 0K03 0K16 0K05 NK96 0K16 0K16 0K16 0K16 0K16 0K16
N7EIE K1DS W4YOE VE3KZ VE3SPW VE3CRU VA3TSG W1AJT/VE3 VO1AU VE2DC XE2ED XE2ED XE2EL XE2AT	A 6 6 2 A A R	1,421 1,365 880 336 C. 7,008 966 1,344 1,175 874 1,874 1,874 874 1,874 84 N 2,226 216 364 PUE	39 34 23 ANADA 120 34 56 47 38 15 7 HEXICO 109 16 26 RTO RI	21 20 12 48 21 24 25 23 12 6 14 9 7 CO	ON ON ON NL	6 FN03 FN04 FN03 FN04 GN37 FN35 DM12 DM22 4	JE6GZH JH3DMQ JH7IMX JA7YCQ E2ØYGG HS8GLR/9 HS4DDQ/1 E21YDP HS4FHT HS6MCB HS6TUX HS1VSB HS2WPJ HS4BPQ/9	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616 4,224 2,808 2,790 2,136 1,656 1,250 1,056	1 46 2 4 581 474 234 132 117 93 89 69 125 132	1722 11612 162152 1254957	PM53 PM74 QM08 QM08 0K03 QK03 QK03 QK16 QK05 QK16 QK16 QK16 QK16 QK16 QK13 QK16 QK13 QK16 QK13 QK16 QK13 QK16 QK13 QK16 QK16 QK16 QK16 QK16 QK17 QK17 QK17 QK17 QK17 QK17 QK17 QK17
N7EIE K1DS W4YOE VE3KZ VE3SPW VE3SPW VA3TSG W1AJT/VE3 VO1AU VE2DC XE2ED XE2ED XE2E	A 6 6 2 2 A A	1,421 1,365 880 336 7,008 966 1,344 1,375 874 180 84 84 N 2,226 216 364	39 34 23 ANADA 120 34 56 47 38 15 7 15 7 109 16 26	21 20 12 48 21 24 25 23 12 6 14 9 7	ON ON ON NL	6 FN03 FN04 FN03 FN03 FN04 GN37 FN35 DM12 DM22	JE6G2H JH3DMQ JH7IMX JA7YCQ E2ØYGG HS8GLR/9 HS8DLR/9 HS8DLR/9 HS8DC HS6MCB HS6MCB HS6MCB HS6MCB HS2WPJ HS8DY0 E21EIC E2ØWGQ E20FWF	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 7 5,688 5,616 4,224 2,808 2,790 2,136 1,656 1,656 1,656 1,056 1,056 1,056 8,00 8,00 8,00 8,00 8,00 8,00 8,00 8,0	1 46 2 4 AILAND 581 474 234 132 117 93 89 69 125 132 51 87 60 135	1722 11621612 12549573	PM/53 PM/74 OM/08 QM/08 OK/03 OK/03 OK/03 OK/05 NK/96 OK/03 OJ/06 NK/98 OK/03 OK/03 OK/03 OK/03
N7EIE KIDS W4Y0E VE3SRW VE3SRW VE3CRU VA3TSG W1AJT/VE3 V01AU VE2DC XE2ED XE2EA XE2AT NP3CW	A 6 6 2 A A R A	1,421 1,465 880 336 C, 7,008 966 1,344 1,175 874 180 84 N 2,226 216 364 90 JRKS & C	39 34 23 ANADA 120 34 56 47 38 15 7 MEXICO 109 16 26 RTO RI 12 CAICOS	21 20 12 48 21 24 25 23 12 6 14 9 7 CO 5	ON ON ON NL QC	6 FN03 FN04 FN03 FN03 FN03 FN04 FN04 FN35 DM12 DM12 4 FK68	JE6G2H JH3DMQ JH7IMX JA7YCQ E2ØYGG HS8GLR/9 HS4DD0/1 E21Y0P HS4FHT HS6MCB HS6H2 HS4FHT HS6MCB HS5AYO E21EIC E20WGQ E20FWF HS5IGY HS3NWD	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616 4,224 2,808 2,790 2,136 1,656 1,656 1,656 1,656 1,056 918 870 840 810 760 738	1 46 2 4 AILAND 581 474 234 132 93 89 125 132 51 87 60 135 95 123	1 17 2 11 16 12 16 12 16 12 15 2 12 5 4 9 5 7 3 4 3	PM/53 PM/74 OM/08 QM/08 OK/03 OK/03 OK/16 OK/16 OK/16 OK/16 OK/03 OK/03 OK/03 OK/03 OK/03 OK/03 OK/03 OK/03
N7EIE K1DS W4YOE VE3KZ VE3SPW VE3CRU VA3TSG W1AJT/VE3 VO1AU VE2DC XE2ED XE2ED XE2EL XE2AT	A 6 6 2 A A R A	1,421 1,465 880 336 C, 7,008 966 1,344 1,175 874 180 84 N 2,226 216 364 90 JRKS & (13,157	39 34 23 ANADA 120 34 56 47 38 15 7 MEXICO 109 16 26 RTO RI 12 CAICOS 223	21 20 12 48 21 24 25 23 12 6 14 9 7 CO 5	ON ON ON NL QC	6 FN03 FN04 FN03 FN04 GN37 FN35 DM12 DM22 4	JEGGZH JH3DMQ JH7IMX JA7YCQ E20YGG HS8GLR/9 HS8GLR/9 HS8GLR/9 HS4FHT HS6MCB HS7VSB HS2WPJ HS4FHT HS6TUX HS1VSB HS2WPJ HS4FHT E21VDP HS5AYO E20FWF E20FWG E20FWF HS5IGY	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616 4,224 2,808 2,790 2,136 1,656 1,250 1,056 918 870 840 840 840 840 840 760	1 46 2 4 AILANDE 581 474 234 132 117 93 89 69 125 132 51 87 60 135 95	1 17 2 2 11 6 12 16 12 15 12 12 5 4 9 5 7 3 4	PM/53 PM/74 QM/08 QM/08 QM/08 QM/08 QM/03 QM/03 QM/06 QK/16 QK/03 QM/06 QK/03 QM/03 QK/04 QK/06
N7EIE KIDS W4Y0E VE3SRW VE3SRW VE3CRU VA3TSG W1AJT/VE3 V01AU VE2DC XE2ED XE2EA XE2AT NP3CW	A 6 6 2 A A R A	1,421 1,465 880 336 C. 7,008 966 1,344 1,75 874 180 84 N 2,226 216 364 PUE 90 JRKS & C 13,157	39 34 23 ANADA 120 34 56 47 38 15 7 MEXICO 109 16 26 RTO RI 12 CAICOS 223 FRICA	21 20 12 48 21 24 25 23 12 6 14 9 7 7 CO 5 9	ON ON ON NL QC	6 FN03 FN04 FN03 FN03 FN03 FN04 FN04 FN35 DM12 DM12 4 FK68	JE667H JH3DMO JH7IMX JA7YCQ HS8G(R/9 HS4D07H HS4D07H HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS6MCB HS7ZSX HS7MCB HS7ZSX HS7MCB HS7MC	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616 4,224 2,808 2,790 2,136 1,656 1,250 1,056 1,250 1,056 1,250 1,058 918 870 840 810 768 870 840 700 656 500	1 46 2 4 581 474 132 117 93 89 69 125 132 51 87 60 135 95 123 70 125	1 17 2 2 11 6 12 6 12 15 12 2 5 4 9 5 7 3 4 3 5 8 2	PM/53 PM/74 QM/08 QM/08 QM/08 QM/08 QM/08 QM/03 QM/03 QM/06 QM/06 QM/06 QM/06 QM/06 QM/06 QM/06 QM/06 QM/06 QM/03 QM/03 QM/03 QM/03 QM/03 QM/03 QM/03 QM/03 QM/03 QM/03 QM/03 QM/03 QM/04 QM/04 QM/08
N7EIE KIDS W4Y0E VE3SRW VE3SRW VE3CRU VA3TSG W1AJT/VE3 V01AU VE2DC XE2ED XE2EA XE2AT NP3CW	A 6 6 2 A A R A	1,421 1,465 880 336 C. 7,008 966 1,344 1,75 874 180 84 N 2,226 216 364 PUE 90 JRKS & C 13,157	39 34 23 ANADA 120 34 56 47 38 15 7 MEXICO 109 16 26 RTO RI 12 CAICOS 223	21 20 12 48 21 24 25 23 12 6 14 9 7 7 CO 5 9	ON ON ON NL QC	6 FN03 FN04 FN03 FN03 FN03 FN04 FN04 FN35 DM12 DM12 4 FK68	JE667H JH3DMO JH7IMX JA7YCQ E20YGG HS8GCR/9 HS4DD7 E21YDP HS4FHT HS6MCB HS4FHT HS6MCB HS4FHT HS4FHT HS4FHT HS4FHT HS4FD7	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,668 5,666 4,224 2,808 2,790 2,136 1,656 1,250 1,656 1,250 1,056 870 840 810 760 840 840 840 480	1 46 2 4 581 474 234 132 117 93 89 69 125 132 51 70 0 135 95 123 70 0 135 95 123 70 0 135 95 123 70 0 135 95 123 70 0 0 125 123 70 0 123 70 125 125 132 132 132 132 132 132 132 132 132 132	1 17 2 2 11 6 12 16 12 15 2 4 9 5 7 3 4 3 5 8 2 6 4	PM/53 PM/74 QM/08 QM/08 QM/08 QM/08 QM/08 QM/03 QM/04 QM/04 QM/04 QM/05 QM/06 QM/08
N7EIE K1DS W4YOE VE3KZ VE3SPW VE3CRU VA3TSG W1AUT/VE3 V01AU VE2DC XE2ED XE2K XE2AT NP3CW VP5JM	A 6 6 6 2 2 A A R R A TL 6	1,421 1,365 880 336 C,7,008 1,344 1,175 874 1,374 1,175 874 1,344 84 N 2,226 216 364 90 JRKS & (13,15 90 JRKS & (13,15 A MAI 71,278	39 34 23 ANADA 120 34 56 47 38 15 7 MEXICO 109 16 26 RTO RI 12 CAICOS 223 FRICA I	21 20 12 48 21 24 25 23 12 6 14 9 7 CO 5 ISLAN 59	ON ON ON NL QC	6 FN03 FN04 FN03 FN04 GN37 FN35 DM122 4 FK68 FL31	JF607H JH3DMO JH7IMX JA7YCQ E20YGG HS9GGKR9 HS4DD07 HS4DD07 HS4DD07 HS4FUT HS4F	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616 4,224 2,808 2,790 2,136 1,056 1,056 1,056 1,056 1,056 918 8700 840 810 760 738 700 738 700 656 500 8380	1 46 2 4 581 474 234 132 117 93 89 125 132 51 87 60 135 95 123 70 41 125 40 60 95	1 17 2 2 11 6 12 6 12 12 12 12 12 12 12 12 12 12 12 12 12	PM/53 PM/74 OM/08 OM/08 OM/08 OM/07
N7EIE K1DS W4YOE VE3KZ VE3SPW VA3TSG W1AJTVE: V01AU VE2DC XE2ED XE2EC XE2AT NP3CW VP5JM CQ3A	A 6 6 2 A A R A TL 6 M	1,421 1,365 880 336 C. 7,008 7,008 7,008 1,344 1,175 874 13,157 874 13,0 84 N 2,226 364 PUE 90 JRKS & C 13,157 A MAI 71,278 EI BAL	39 34 23 ANADA 120 34 56 47 38 15 7 MEXICO 109 16 26 RTO RI 12 CAICOS 223 FRICA 1443 UROPPE EARIC	21 20 12 48 21 24 25 23 12 6 14 9 7 7 CO 5 59 S. 157 S. 157 S.	ON ON ON NL QC	6 FN03 FN04 FN03 FN04 GN37 FN35 DM12 DM22 4 FK68 FL31 IM12	JE662H JH3DMO JH3TMX JA7YCQ E20YGG HS8GGLR9 HS4Db01 E21Y0P HS4Fb1	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 6 12 TH 12,782 5,688 5,616 4,224 2,808 2,790 2,136 1,656 1,250 1,056 1,050 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,056 1,050 1	1 46 2 4 4 4 4 4 4 7 4 7 4 7 4 7 4 7 6 0 132 5 1 32 5 1 32 5 1 32 5 1 23 4 0 132 5 1 23 4 0 123 4 123 5 132 5 5 1 8 9 5 5 1 32 5 5 5 1 32 5 5 5 1 32 5 5 5 1 32 5 5 5 1 32 5 5 5 1 32 5 5 5 1 32 5 5 5 1 32 5 5 5 1 32 5 5 5 1 23 4 7 4 32 5 5 1 23 4 7 32 5 5 1 23 5 1 22 5 1 23 5 1 22 5 5 1 22 5 5 1 22 5 5 1 22 5 5 1 22 5 5 1 22 5 5 1 22 5 5 5 5	1 17 2 11 6 12 16 12 16 15 12 15 12 16 15 12 16 15 12 16 15 12 16 15 12 16 15 12 16 15 12 16 15 12 16 15 12 16 15 12 16 15 12 16 15 12 16 17 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 1	PM/53 PM/74 OM/08 OM/08 OM/08 OM/07
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N7EIE K1DS W4YOE VE3KZ VE3SPW VE3CRU VA3TSG W1AUT/VE3 V01AU VE2DC XE2ED XE2K XE2AT NP3CW VP5JM CQ3A EH6VQ	A 6 6 2 A A R A TL 6 M	1,421 1,365 880 3366 7,008 9966 7,008 976 874 1,375 874 1,375 874 1,375 874 1,375 874 874 1,375 874 874 874 874 874 874 874 874 874 874	39 34 23 ANADA 120 34 56 47 38 15 7 7 8 EXICO 24 20 223 FRICA 243 UROPE EARIC I 210 UROPE EARIC I 210	21 20 12 48 21 24 25 23 12 6 14 9 7 7 CO 5 5 157 157 157 109 A	ON ON ON NL QC	6 FN03 FN04 FN03 FN03 FN03 FN35 DM12 DM22 4 FK68 FL31 IM12 JM19	JE662H JH3DMO JH3DMO E20YGG HS8GLR/9 HS4D07 E21YDP HS4D7 HS4FHT HS4FHT HS4FHT HS4FHT HS4FHZ HS5TVS HS2WFJ HS5KVG H	2 Q Q M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1,003 3 6 6 7 12 7 12 5,688 6,616 7 5,616 4,224 2,808 6,424 4,224 2,808 6,424 4,224 4,248 6,424 4,248 6,424 4,248 6,42	1 46 2 4 4 AILANC 581 132 117 132 117 132 117 132 51 132 51 132 51 123 70 41 125 40 60 95 80 70 41 125 80 70 41 23 40 23 40 23 70 41 23 40 23 23 51 23 20 20 20 20 20 20 20 20 20 20 20 20 20	1 17 2 2 11 6 12 6 12 15 12 15 5 4 9 5 7 3 4 3 5 8 2 6 4 2 2 2 2 2 2 2 2 2 2	PM/53 PM/74 OM/08 QM/08 QM/08 QM/08 QM/08 QM/07
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N7EIE K1DS W4YOE VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE2DC XE2ED XE	A 6 6 6 6 2 A A R A R A TL 6 M 6 6	1,421 1,365 880 3366 7,008 966 7,008 87 874 1,374 1,374 874 1,375 874 874 874 874 874 874 874 874 874 874	39 34 23 ANADA 120 34 56 47 38 15 7 7 MEXICO 109 16 26 RTO RI 12 CAICOS 223 FRICA 443 UROPE EARIC 210 UROPE ILGARI, 3 ROATIA	21 20 12 48 21 24 25 23 12 6 12 6 14 9 7 CO 5 (ISLAN 59 (S. 157 : 109 A 3	ON ON ON NL QC	6 FN03 FN04 FN03 FN04 GN35 DM12 DM22 4 FK68 FL31 IM12 JM19 KN33	JE667H JH3DMO JH7IMX JH7IMX JH7IVQ HS8GR(R/9 HS4DD1 HS4DPH	2 Q Q M 22222222222222222222222222222222	2 1,003 36 12 12 12 12 12 15,688 42 20 14 15 12 12 15,688 42 20 14 16,55 16 16 17,55 16 16 17,55 16 17,55 16 17,55	1 4 4 4 2 4 4 AILANC 581 474 474 234 474 234 474 234 117 132 117 93 96 69 132 51 132 51 132 70 0 135 123 70 0 95 40 135 123 70 0 95 40 135 123 70 95 132 123 70 132 125 132 12 125 1 12 12 1 1 1 1 1 1 1 1 1 1 1 1	1 17 2 2 11 6 12 6 12 5 4 9 5 7 3 4 3 5 8 2 6 4 2 2 2 2 2 1 1 5	PM/53 PM/74 QM/08 QM/08 QM/08 QM/08 QM/08 QM/03
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N7EIE K1DS W4YOE VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE3SPW VE2DC XE2ED XE	A 6 6 6 6 2 A A R A R A TL 6 M 6 6	1,421 1,365 880 3366 7,008 966 7,008 87 874 1,374 1,374 874 1,375 874 874 874 874 874 874 874 874 874 874	39 34 23 40 120 34 56 47 38 15 7 7 4EXICO 109 16 26 8 7 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 8 7 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 7 8 8 7 8 8 7 7 8 8 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 8 7 8 7 8 7 8 7 8 8 8 8 8 8 8 9 8 8 8 8	21 20 12 48 21 24 25 23 12 6 14 9 7 7 CO 5 5 15 15 109 A 3 28	ON ON ON NL QC	6 FN03 FN04 FN03 FN04 GN35 DM12 DM22 4 FK68 FL31 IM12 JM19 KN33	JE667H JH3DMO JH3DMO JH3TMX JA7YCO E20YGG HS8GGLR/9 HS4DD7 E21TVD HS4FHT HS6MCB HS4FHT HS6TUX HS4FHT HS4FHT HS4FH7	2 Q Q M 2 2 2 2 2 2 2 2 2 2	2 2 1,003 6 2 1,003 6 2 1,003 6 2 1,003 6 2 1,003 6 2 1,005 6	1 4 6 2 4 AILANC 581 474 234 474 234 132 117 93 89 69 125 132 137 135 132 125 132 125 70 41 125 80 60 60 135 23 70 41 125 80 60 23 17 14 4 225 111 111	1 17 2 11 6 12 6 12 16 12 15 12 15 2 6 4 2 2 2 2 2 2 1 1 5 3 3 4 3 5 8 2 6 4 2 2 2 2 2 2 1 1 5 3 3 3 5 5 7 3 4 3 5 8 2 6 4 2 2 2 2 2 2 1 1 5 3 3 3 5 5 5 7 3 4 3 5 8 2 6 4 4 2 2 2 2 2 2 1 1 5 3 3 3 5 1 1 1 1 1 1 1 1 1 1	PM/53 PM/74 OM/08 QM/08 QM/08 QM/08 QM/08 QM/03
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