



Scuttlebutt

December 1992

Issue 102

Captain's Cabin

Rich Gelber, K2WR

The vagaries of the calendar and the travel plans of your editor and your president (separate plans, this time) have placed the writing of this column between the phone and CW weekends of the CQWW DX contest. The phone contest was one of the most enjoyable operating events I've had the pleasure of working in recent years. Conditions were far better than any of us had any right to expect at this point in the sunspot cycle. Even a disturbance that was expected to throw a damper on the festivities Sunday afternoon managed to hold itself off until after the contest ended. Numerous record-setting scores were heard on 75 meters on the K1DG New Hampshire State Lottery net. W1PH supplies some details elsewhere in this issue. I hope everyone had a good time.

I'm probably preaching to the converted in extolling the merits of CW contesting, but I know there are a few of you out there who don't "do CW". Years ago I used to enjoy phone contesting and simply tolerate CW. More recently, my attitudes have reversed, no doubt in part due to the necessity of operating more and more CW with my semi-non-existent antenna system at home, and in part due to the junk one has to listen to on the phone bands. While I realize there are far more YCCC'ers who don't own microphones than those who don't have a keyer, I can't resist exhorting any of you who happen to be in the latter group to try what the rest of us know to be a unique pleasure. Besides, with CT and a handful of parts you actually don't need to get a keyer or a paddle!

In the current issue of the *National Contest Journal*, K5RC has quite a few interesting things to say about spectrum usage during contests, (mostly phone contests) and the conflicting needs of contesters and non-contesters. I urge you to get hold of a copy and read this excellent editorial. Allow me however, to go a bit further than Tom did and ask the following question: "If 75 percent of the hams on 20 meters at the start of the DX contest are there for the purpose of operating the contest (probably a conservative guess), then is it so unreasonable for them to occupy 75 percent of the band?" (Which is about the amount we occupy.) Just wondering. I guess now I'll be on the hate mail list mentioned by Tom. I'll keep you posted.

Boxboro has come and gone once again and as always, W1VRK, W1MXC, and their staff put together an outstanding event. I hope those of you who were there enjoyed the meeting. Please allow me to apologize for the crowded conditions. The room was supposed to seat 150, but by my count there were just 100 seats. 175 of you signed the sign-in sheet, so were there at some point during the meeting. We could have had a somewhat larger room, but we would have had to end a bit earlier to allow for banquet set-up. We'll be in touch with the Boxboro organizers to make things better next time.

In less than two weeks I'll be off to Jersey, in the Channel Islands, to single-op in CQWW CW, as GJ/K2WR, from the QTH of GJ0KKB. I promise that any Club members worked on 6 bands will be presented at the December meeting with some kind of tacky ABC Sports paraphernalia or other that I can dig up.

This evening the packet system is abuzz with the sad news of the sudden and untimely passing of Al Slater, G3FXB. I didn't know Al well, but he was always a pleasure to work, in or out of the contest. Al has gone on to zone 41, and I know the entire DX and contest communities will want to express their condolences to his family. For an amateur, Al was a real "pro", if you know what I mean.

See you all on the fifth

October Meeting

Paul Young, K1XM

The next meeting of the Yankee Clipper Contest Club will be on Saturday, December 5, at the Sturbridge Host Hotel, beginning at 1 pm.

The Hosts Hotel is located on Route 20 in Sturbridge, Massachusetts, 1/2 mile West of I-84 (first exit off I-84 when coming South from the Mass. Turnpike).

To get to the Host Hotel, exit I-84 on to Route 20 West. You will pass through two sets of stoplights while noticing several motels on your right. Make a right turn just prior to the Burger King sign. This is the entrance to the Host Hotel. There is plenty of parking in front of the hotel.

The meeting dates for the rest of 1992 and for 1993 are:

DATE	DAY
February 7, 1993	Sunday
April 3, 1993	Saturday
June 6, 1993	Sunday
August 7, 1993	Saturday
October 4, 1993	Sunday
December 5, 1993	Sunday

The August meeting will be the club picnic.

Secretary's Report Yankee Clipper Contest Club

The October, 1992, YCCC meeting was held at the ARRL New England Division Convention at the Boxboro Host Inn in Boxboro, Massachusetts, on October 3. 175 members and many guests attended. The club welcomed thirteen new members:

Harold Kramer, WJ1B
Lajos Gergely, AA1BW (HA0DR)
Norman L. Rivers, W1BYH
Ed Lajoie, K1CB
John A. Gaidos, N1HFE
Bill Wilder, KD1HN
Joseph Fitzgerald, KM1P
Douglas Crittendon, NJ1T
Jim McHale, NM1W
Robert Tublitz, WT2Q
Andy Stchislenok, AA3BG (RC2AR)
Ron Sprague, N6CJM
Bill Ralston, AI6E

Club VP and Activities Manager Saul, K2XA, announced the meeting dates for 1993 (see elsewhere in the *Scuttlebutt*). In the interests of time we waived the reading of the minutes of the August meeting and the financial report, which showed a healthy balance of \$2440.11.

John, K1AR, reported that he had lined up a new printer to produce club QSL cards, and was hoping to submit a very large initial order by collecting orders at the meeting. The price is \$50/2K including shipping, or \$45/2K if you pick them up: the new printer is Minute Press, in Salem, NH, next door to Ham Radio Outlet. John expects better turnaround time on the QSL cards. John will send a proof copy for you to check before your order goes in if you have never ordered club QSL cards before. If you have ordered cards before and don't need to change any of the information your order can go right in. Volunteers are working on both new club badges and new club jackets. Kurt, W1PH, new club scorekeeper, reminded everyone to send in their logs and to send him their scores for the CQ WW and ARRL DX contests. Rich, K1CC, had computer radio control interfaces for sale for \$50. Contest

Cookbooks were available for pickup, with the remaining copies to be mailed.

Ken, K1EA, gave an overview of the YCCC packet system and introduced sysops KY1H, K2TR, K5NA, WA1G, K1XX, and KB1H, who described their coverage areas and equipment. Rich, K2WR, gave an overview of the Tristate cluster connection for K2GX, who had to return to his booth.

Members announced what was probably a partial list of club DXpeditions for the CQ contests: 4U1ITU by K1RX (SSB), FP/WM1K by WM1K (SSB), 4J by NT2X and others (SSB), S79S by K1XM and KQ1F (CW), GJ/K2WR by K2WR (CW), and BV/K1RX by K1RX (CW).

Stu, KC1F, then gave an overview of the Contest University tutorial program. A large percentage of the audience was interested in attending future sessions.

K5FUV presented a slide show on the Texas contest super-station of N5AU.

Fred, K1VR, then introduced Eimac the Magnificent, who shocked and amazed us all with his insightful glimpses into the future. Or something like that...

Dean, N6BV, gave a detailed technical presentation on stacking triband antennas and on IONCAP predictions of propagation and angle for signals from different parts of the world.

Fred, K1VR, then answered questions about contesting for the "non-professional".

Paul, K1XM, and Charlotte, KQ1F, gave a multi-media slide presentation on how to go on your first DXpedition.

Respectfully submitted,
Charlotte L. Richardson, KQ1F
Secretary/Treasurer
5 October 1992

Contest University, Amherst, NH, October 14, 1992

Glen Whitehouse, K1GW

The fall season of Contest University was held at K1GW on October 14th. Twenty

contesting enthusiasts attended. Many new faces were seen and in some cases many miles were travelled. Under the guidance of University Chancellor Stu Santelmann, KC1F, were professors Kurt Pauer, W1PH, Joe Reisert, W1JR, Dean Straw, N6BV, and John Dorr, K1 Alpha Riddeo.

The students were very active questioners wringing every ounce of knowledge possible from the assembled experts including vacationing professors K1GQ and W1RR.

The early portion of the curriculum dealt with how to get more points. Always a popular topic. Little pistols were cautioned to either get to the PacketCluster™ spots quickly or wait a while before tuning to the frequency. One suggestion was to wait until they get near the top of the CT list of needed spots. Also, it was suggested that operators going for points avoid the temptation to chase juicy DX that may be spotted. We also discussed what speed to send CW, how often to send CQ, how not to waste words, etc. If you make 1000 Qs, how long does it take to say "QSL QRZ"? Too long — how about saying a quick "thanks K1AR"?

Propagation was also discussed at length with the assistance of some IONCAP data graphically presented by N6BV. It seems that 10 won't be open long on the CQ weekends this year, so plan on being there early.

After the pizza banquet, antennas were the topic. Students had many questions for the experts concerning ways to make their stations louder or how to get onto some of the low bands that they were not on yet. A number of practical solutions (short of make it bigger and taller) were suggested. Among other things, W1JR discussed phased verticals as a means of making significant signal improvement without outrageous expense and effort. Elevated radials are very efficient and may make sense in a lot of installations, the data shows.

Efficiency and station layout were also a popular area of exploration. Set your station up for minimum motion (KC1F). Label everything as though a guest was going to operate. It will pay off when you

are tired (W1PH). Change chairs often and even spend some time operating standing up (N6BV). Think and act like your signal is BIG even if it isn't (W1PH). Make band switching and tuning as simple as possible (K1AR).

Contest University is an excellent way to exchange information about contesting. Even big guns can learn from big guns and others. New members can be attracted to the YCCC through these local gatherings. New hams can be attracted to contesting too. Contest University is easy to organize and can be of great benefit to the hobby. Anyone who would like help or suggestions in holding a CU session may call me or N1AU at any time. We'd be glad to help. In our case CU counted as a special YCCC meeting for attendance credit. Yours may count as well. Check with the club president for details.

The following people attended: K1GW, NM1W, N1MWW, N1KWF, K1ETT, KD1GJ, K2TE, AA1AA, KC1F, NO1I, KA1CB, W1RR, K1GQ, K1AR, N6BV, W1JR, AD8V, N1AU, K1MBO, W1PH, K1KP, KC1EO.

Floating

Paul Young, K1XM

Please excuse the score arrangement. Scores came from various places in different formats and I did not have time to reconcile them all. Special thanks to Kurt, W1PH who provided the club scores, and to Dean, N6BV, who provided the propagation charts.

RTTY Contest Software

By WF1B

Features include:
Mouse Support
Automatic Callsign Capture

Supports KAM, PK-232,
MFJ-1278, PCI-3000,
others

Wyvern Technology, 35
Colvintown Rd,
Coventry RI 02816-8509

YCCC Scores

Kurt Pauer, W1PH

33,202,000 POINTS for YCCC

Single Operator (S/O)

John, K1AR	8,000,000	
Bob, KM1H	6,400,000	
(opr KQ2M)		
Dean, N6BV	5,290,272	
Jack, W1WEF	3,383,280	
Tom, W1XS	1,688,752	
Roger, W1BR	1,495,736	
Joel, AK1N	1,403,600	
Gene, K1RU	850,000	SB 20
Lou, KS1L	774,076	SB 10
Roby, W1MK	422,730	
Bruce, WA1G	223,146	
Richard K5NA	149,499	SB 40
Vic, N4XR	106,266	
Dick, KB1H	85,894	SB 40
Mike, FP/WM1K	59,775	
Roger, W1AX	20,416	
Richie, KA2DMQ	7,030	SB 80

Single Operator - Assisted (S/A)

Kurt, W1PH	4,296,240
Jeff, K1IU	3,483,360
Bruce, KS9Z/1	2,278,080
Hank, KF2O	1,964,018
Ken, W1NG	1,706,936
Howie, WJ1D	1,596,190
Ed, K2TE	1,428,018
John, W1RR	1,169,217
Mark, AA2Z	1,104,600
Gary, K2AJY	986,788
Garry, WD1K	922,263
David, K1HMO	894,912
John, KC1XM	505,155
Ted, AG1C	336,000
Bill, K2EK	261,000
Darrel, KL7DN/1	65,952

Little Pistol - Limited ant systems

or Low power

Stu, KC1F	3,660,000	S/A
KT-34A @ 57 ft		
Bruce, KS9Z/1	2,278,080	S/A
KT-34XA @ 50 ft		
Tony, K1KP	1,810,000	S/A
KT-34A @ 40 ft		
Rich, WS1Y	1,569,750	
S/O KT-34XA @ 67 ft		
Les, KG1D	1,269,632	S/L
KT-34XA @ 70 ft (100 w)		
Bill, WA1IML	1,054,092	S/A
TB @ 50 ft		
Bill, AI6E	888,580	S/L
3L @ 35 ft (100 w)		
Dave, K1WJL	620,484	S/O
KT-34XA @ 55 ft		
Don, WB2DND	469,299	S/O
A4S @ 37 ft		

David, NY1L	410,835	S/A
A4S @ 55 ft		
Dennis, NB1B	402,434	S/A
A3S @ 40 ft		
Vin, KA1ILG	361,680	SB 10
KT-34XA @ 50 ft		
Glenn, WO1P	342,790	S/O
Dipoles, G5RV		
Peter, N1AFC	342,482	S/Q
Yagis @ 80 ft (2 WATTS)		
Dave, N4DW	308,275	S/A
KT-34 @ 44 ft		
Russ, AA2GS	290,352	S/L
G5RV, (100w)		
Tom, WW1E	277,623	S/A
KT-34XA @ 65 ft		
Joe, WA1N	155,230	S/A
TB @ 50 ft		

Multi-Single

K1DG	8,532,000
+WZ1R, KM3T, K1TR, N1RC	
KC1XX	6,655,750
+AD1C, KA1XN, K1TWF, KD1EA	
N8RA	5,646,000
+NJ2L, WJ1U, KC1SJ	
K1TO	4,803,136
+K5FUV, NQ1K, K1XA	
N1TZ	4,749,240
+K1KNQ, K1SF, KZ1M	
K1VR	4,617,750
+KA1BQ, AA1AA, WA1G	
W1OO	3,334,188
+K1JKS	
N1AU	1,080,656
+N1HID	
K1GW	673,629
+KC1EO	

Multi-Multi

K2TR	14,900,000
+WA2SPL, NJ1F, K2ONP, WK2H,	
WA4VKD, N2DU, WB2LXC,	
KB2HPX, K2WR, NQ2D, KD2RD,	
N1CC, N2MG, K2XA	
NX1H	13,200,000
+K1XM, K1BG, K1MNS, K1FWE,	
NX1G, NX1P, NW1U, WT1S	
KY1H	7,801,856
+AK4L, WA1ZAM, AA1AS, WT2Q,	
KB1W, NJ1T, WK1O, NU1P, KY1K	

AMP Broken?

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1992 CQ WW SSB Band by Band Breakdowns

Kurt Pauer, W1PH

	160			80			40			20			15			10		
	Q	Z	C	Q	Z	C	Q	Z	C	Q	Z	C	Q	Z	C	Q	Z	C
N1AFC							1	1	1	113	18	57	193	20	59	203	20	62
K1AR	28	10	21	239	15	73	315	26	88	1,001	39	133	933	33	124	1,308	32	119
N1AU				16	6	15	43	7	27	152	31	83	211	27	106	399	30	132
W1BR	2	1	2	83	12	46	87	14	50	264	29	103	294	29	87	324	27	106
KG1D	1	1	1	19	9	15	73	15	40	189	28	85	238	28	80	545	25	89
WJ1D	1	1	1	31	9	25	52	17	38	210	33	110	259	30	117	482	30	131
K1DG	39	14	34	205	18	82	314	31	118	938	39	161	1,109	37	154	786	32	157
WW1E							5	5	5	95	30	74	101	26	69	121	22	96
KC1F	6	3	3	70	10	42	122	23	80	753	36	124	699	32	120	407	27	115
K1GW	3	3	3	4	3	4	45	12	38	117	26	82	147	25	77	271	25	113
KB1H							239	29	105									
KM1H	26	8	17	197	18	65	197	29	82	898	39	139	813	38	133	1,033	30	113
KY1H	62	9	17	217	19	79	220	28	95	918	37	144	1,244	37	149	1,015	33	155
NX1H	33	11	20	570	21	86	339	33	108	1,726	39	167	1,357	36	145	1,398	34	158
K1HMO	2	1	1	16	7	13	47	15	36	123	31	86	178	28	103	307	28	125
KA1ILG																718	32	144
WA1IML				12	6	4	51	12	33	205	30	100	186	26	104	354	28	123
K1IU	14	8	10	140	16	71	106	27	91	400	37	130	577	34	129	474	30	137
WD1K	1	1	1	39	10	28	48	11	36	166	34	113	192	29	108	209	30	118
FP/WM1K				1	1	1	4	1	2	218	9	30	105	5	7	29	5	7
K1KP				40	8	38	79	14	51	230	31	103	442	28	110	458	28	103
KS1L																1,466	34	148
NY1L				3	3	2	26	10	22	87	16	60	155	22	78	199	21	72
W1MK	4	3	2	70	11	42	59	15	36	91	12	38	133	20	57	152	16	53
WA1N							25	10	22	59	15	36	55	8	34	119	23	67
W1NG	18	6	13	65	12	46	77	17	61	181	31	103	401	35	129	282	30	133
W1OO	32	7	19	110	13	59	141	23	74	459	36	110	551	31	117	551	31	118
WO1P	2	2	2	12	5	8	61	12	34	121	21	66	115	20	52	114	20	53
W1PH	16	6	13	98	14	59	145	27	93	629	37	140	410	32	128	834	30	123
K1RU										1,573	40	160						
K1TO	18	7	13	122	16	70	146	27	96	741	38	150	858	34	134	408	28	123
N1TZ	13	7	12	134	18	77	147	27	93	637	39	144	519	33	130	750	31	149
K1VR	21	7	13	143	16	73	146	27	102	623	38	140	491	35	132	784	31	136
W1WEF	16	7	13	112	10	48	82	20	51	492	31	120	568	33	124	758	27	109
K1WJL										189	30	89	207	25	78	237	27	99
KC1XM				17	7	14	13	6	9	78	23	48	148	22	85	255	30	113
W1XS	6	3	4	23	7	19	65	14	46	278	35	110	332	31	106	325	29	114
KC1XX	11	5	8	172	17	73	256	30	110	848	38	150	847	35	146	851	30	148
WS1Y	2	2	2	45	11	26	92	17	51	290	28	99	387	25	88	416	20	86
K2AJY				37	12	26	77	20	57	155	30	95	200	31	115	190	31	130
KA2DMQ				119	11	25												
WB2DND	1	1	1	33	11	23	42	12	32	111	14	57	152	17	50	195	20	73
AA2GS				10	3	4	3	2	2	107	21	63	123	19	58	161	24	67
KF2O	19	7	13	72	15	53	121	30	91	301	36	122	227	35	123	307	30	131
K2TE				47	10	38	105	20	69	198	31	109	253	29	117	294	27	116
K2TR	122	12	36	532	21	87	504	32	110	1,610	39	166	1,849	38	159	1,468	35	156
AA2Z	2	2	2	8	4	8	27	6	22	256	30	81	264	26	99	358	29	111
N4DW				9	4	7	95	17	57	104	22	64	83	14	41	81	19	50
N4XR	5	3	5	13	7	12				58	12	39	58	17	39	68	21	44
K5NA							386	31	116									
N6BV	29	8	14	266	16	67	138	21	75	843	34	118	878	31	110	829	27	103
AI6E	2	2	1	43	8	23	52	14	35	168	26	70	269	23	86	299	22	75
KL7DN/1										77	23	44	14	7	10	77	16	45
N8RA	16	6	13	91	17	62	222	25	99	658	38	136	810	36	142	830	31	145
KS9Z				64	14	44	88	19	63	299	31	99	576	33	124	407	28	110

Propagation Prediction Charts for CQ WW CW

Dean Straw, N6BV

At my lecture at the Boxboro Convention I passed out a very small number of graphs for the predicted band openings for the October CQ WW SSB contest between W1 and England (representing Western Europe), Ukraine (representing Eastern Europe), and Japan. Following are graphs for the CQ WW CW contest.

These graphs were computed using the IONCAP computer program for an SSN (12-month Smoothed Sunspot Number) of 100, which is what QST is predicting for the month of November. The Y-axis is calibrated in dBμV on 50 ohms. An S-meter calibrated for 6 dB per S-unit, and setup for S-9 at 50 μV will show S-9 for 34 dBμV; S-8 for 28 dBμV; S-7 for 22 dBμV; etc.

The graphs show openings to the desired receiving geographic areas for a transmit-

ting site in the Boston, MA, area; although the predictions are applicable to anyone in the YCCC. The transmitting and receiving antennas used in the IONCAP calculations were: 100-foot high inverted Vee for 80 and 40 meters; 100-foot high 3-element 20 meter Yagi; 60-foot high 4-element 15 meter and 10 meter Yagis. The same antennas are assumed at each end of the paths. If you have bigger (or smaller) antennas than these assumed ones, then you will have to add or subtract dBs from the predicted levels.

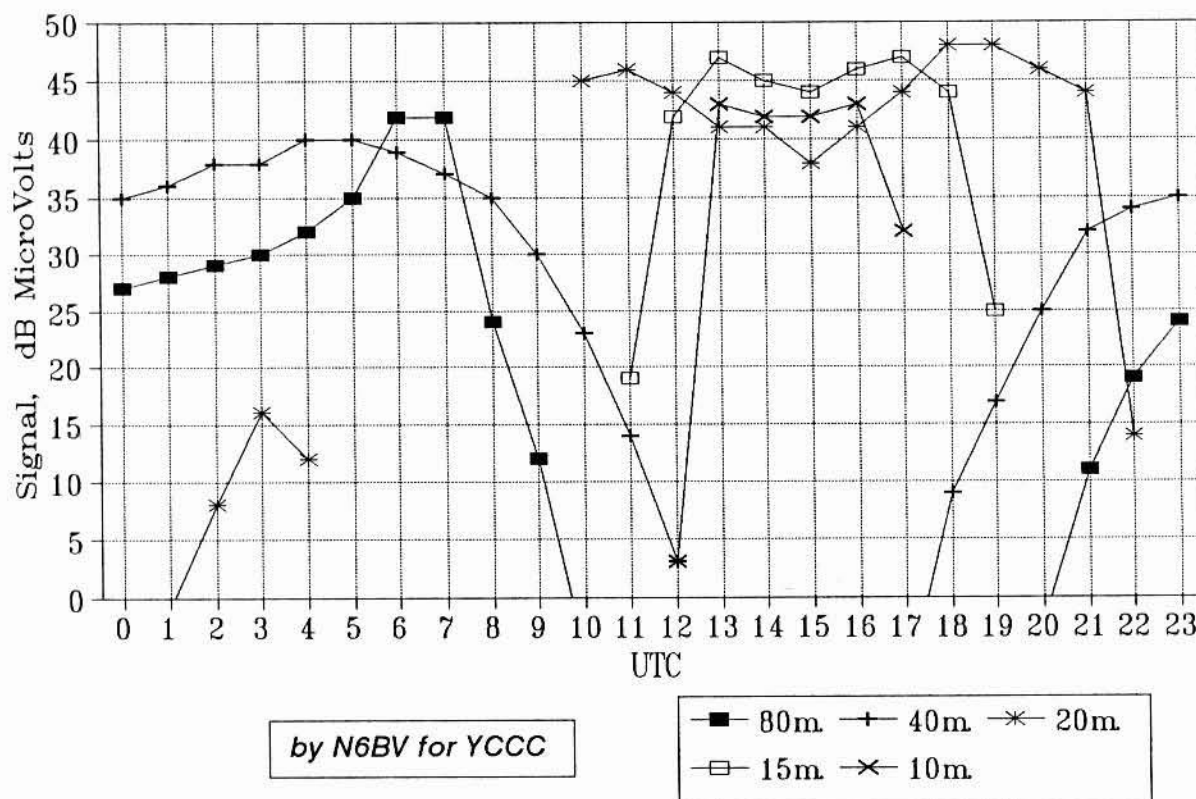
As an illustrative example, consider the path from W1 to England for November. The peak of the 80 meter opening will occur around English sunrise from 06-07 UTC. Don't miss this peak, especially the smaller W1 and W2 stations who may not be able to slug it out earlier in the contest. Expect 40 meters to G to open well on Saturday evening about 20 UTC (or even earlier for the big guns) with signals approaching S-9 (34 dBμV) about

22 UTC.

With solar activity in the declining stage for Cycle 22, it is imperative to monitor 10 meters after 11 UTC for its expected opening, which is predicted to be shorter and less intense than it has been in the last few years of high solar activity. Similarly, monitor 15 meters for its opening from about 10 UTC on. IONCAP only predicts levels on the hour, not at half or even quarter hour intervals. You will need to hit ten meters running hard if the actual propagation conditions are marginal, as they could well be this year. Note that 20 meters will die into England from about 22 UTC till about 02 UTC, although if conditions are unexpectedly good there may still be some weak Gs to work in this time period.

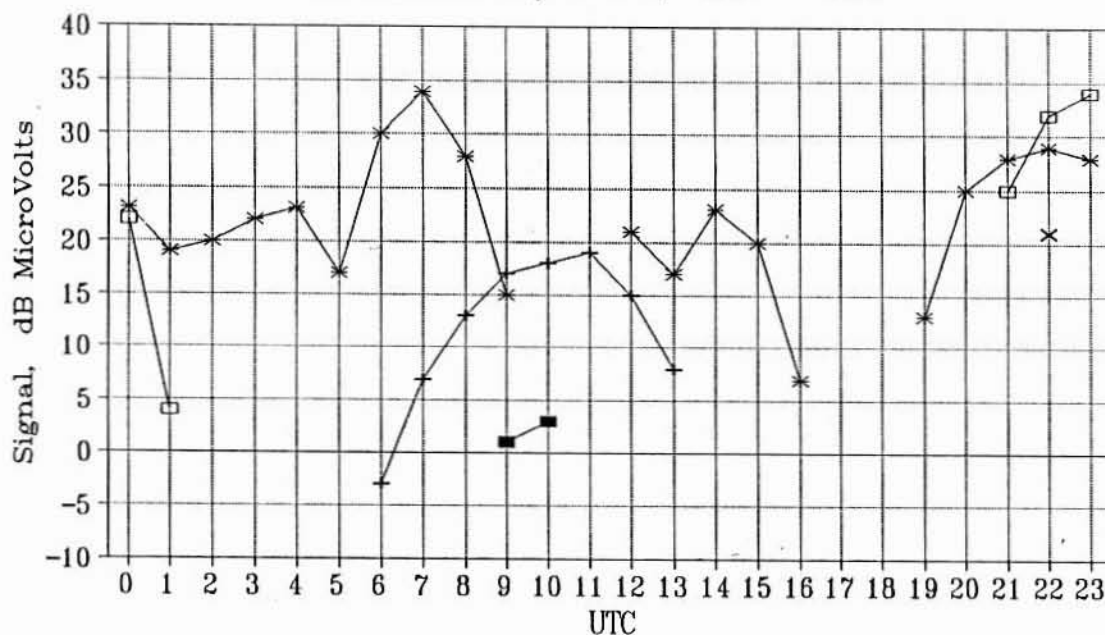
Keep in mind that computer models of the ionosphere are statistical in nature; keep alert to actual, on-going conditions during the contest! Good luck, and kick some FRC butt in the contest.

W1 to England, Band Planning November CQWW CW, SSN = 100



W1 to Japan, Band Planning

November CQWW CW, SSN = 100

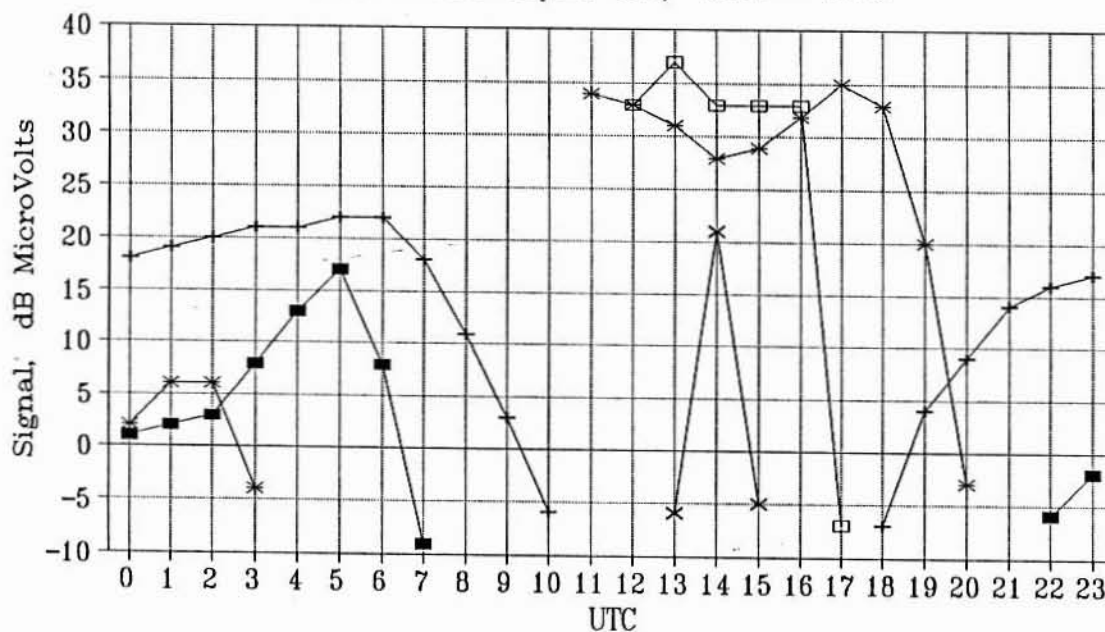


by N6BV for YCCC

■ 80m + 40m * 20m
 □ 15m x 10m

W1 to Ukraine, Band Planning

November CQWW CW, SSN = 100



by N6BV for YCCC

■ 80m + 40m * 20m
 □ 15m x 10m

CQ WW SSB

Score Rumors

Single Op:

CALL	Qs	Zs	Cs	SCORE
K1AR*	3,824	155	558	8M
at K1EA				
KC1F	?	?	?	3.5M
W1FM	655	86	262	629K
KM1H*	3,164	162	549	6.44M
KQ2M op				
W1RR	?	?	?	1.18M
W1WEF	2,028	128	467	3.4M
K2DM	2,394	129	423	3.7M
W2HPF	2,257	134	450	3.7M
KE2NL	1,525	124	382	2.2M
AA2U/qrp	788	97	311	891K
WT3Q	?	?	?	3.14M
K3ZO	2,251	464	139	3.8M
N5RZ	2,308	1505	000	4.2M
N6BV/1	2,985	137	?	5.27M
NA8V	2,208	146	455	3.9M
W9RE	2,116	142	505	3.9M
K0KX	1,754	148	438	2.9M
KP2A	?	?	?	10.8M
VD3EJ	4,675	158	522	8.5M
VE3RM	2,121	108	375	2.6M

Single Op Low Power:

CALL	Qs	Zs	Cs	SCORE
WS1A	?	?	282	804K
AI6E	833	95	288	884K
N8II	?	?	?	1.92M
K0EJ	?	?	?	1.2M
VY2SS	2,162	?	270	2M

Single-Op Unlimited:

CALL	Qs	Zs	Cs	SCORE
K1IU	?	152	568	3.4M
W1PH	2,132	146	556	4.2M
WB2K	1,576	152	588	3.3M
KF2O	?	?	?	1.9M
WR3E	1,667	146	549	3.23M
at N2FB				
KZ3H	1,525	155	555	3.00M
K3WW	2,382	163	628	5.3M
WM5G*	2,813	171	662	6.7M
K0RF	1,874	165	556	3.77M

Single-Op Single Band:

CALL	BAND	Qs	Zs	Cs	SCORE
N4RJ	10	1,620	34	147	850K
K2MT	15	1,504	37	152	814K
W6QHS	15	?	?	?	880K
W0UN	15	2,098	39	147	1.05M
NP2E	15	4,000	?	145	1.72M
K4XS	20	1,923	39	156	957K
VD3CDX	40	1,243	35	127	501K
TG9AJR	40	1,222	32	104	395K
KN6M	75	300	28	88	?

Multi-Single:

CALL	Qs	Zs	Cs	SCORE
K1DG*	3,396	171	706	8.5M
K1TO	2,301	150	584	4.8M
K1VR*	2,217	155	597	4.63M
KC1XX	2,988	155	635	6.65M
AA2DU*	2,088	151	579	4.2M
K2SX	1,743	148	537	3.3M
K2WI	2,419	170	655	5.6M
K3DI	1,041	128	467	1.7M
N3RS*	2,957	172	673	7.1M
K4ISV	2,722	174	626	6.2M
N6TR	1,803	145	391	2.6M
K8AZ	2,670	165	635	6.0M
WB8K	2,226	159	597	4.7M
N8RA	2,627	153	597	5.65M
AA8U	2,677	153	541	5.07M
KS9K	2,918	171	636	6.6M
K9UWA	1,533	156	530	2.9M
WA0PUJ	1,805	151	469	3.1M
V31DX	8,332	152	505	12.46M

Multi-Multi:

CALL	Qs	Zs	Cs	SCORE
NX1H*	5,423	174	684	13.8M
N2RM*	7,189	186	796	20.17M
K2TR*	6,085	891	704	14.9M
W3LPL*	6,431	183	782	17.3M
K3LR*	6,088	178	710	14.7M
W4MYA*	4,023	172	651	8.9M
N5AU	5,344	180	714	13M
AA6TT	5,777	182	675	12.3M

*Score Breakdowns:

K1AR S/O:	BAND	Qs	Zs	Cs
160:	28	10	21	
75:	239	15	73	
40:	315	26	88	
1	1,001	39	133	
1	933	33	124	
0	1,308	32	119	
TOTAL:	3,824	155	558	- 8M

K1DG M/S:

BAND	Qs	Zs	Cs	
160:	40	14	34	
75:	206	18	82	
40:	315	31	119	
1	940	39	161	
1	1,110	37	153	
0	786	32	158	
TOTAL:	3,396	171	706	- 8.5M

SCORE	KM1H (KQ2M op)	S/O:
8.5M	BAND	Qs Zs Cs
4.8M	160:	26 8 17
4.63M	75:	197 18 65
6.65M	40:	197 29 82
4.2M	1	898 39 133
3.3M	1	813 38 133
5.6M	0	1,033 30 113
1.7M	TOTAL:	3,164 162 549 - 6.44M

NX1H M/M:

BAND	Qs	Zs	Cs
160:	33	11	20
75:	570	21	86
40:	339	33	108
1	1,726	39	167
1	1,357	36	145
0	1,398	34	158
TOTAL:	5,423	174	684 - 13.8M

K1VR M/S:

BAND	Qs	Zs	Cs
160:	41	7	13
75:	144	16	73
40:	148	27	103
1	624	39	130
1	495	35	132
0	785	31	137
TOTAL:	2,217	155	597 - 4.63M

AA2DU M/S:

BAND	Qs	Zs	Cs
160:	17	6	14
75:	156	18	70
40:	137	24	85
1	537	36	134
1	649	36	134
0	592	31	134
TOTAL:	2,088	151	579 - 4.2M

N2RM M/M:

BAND	Qs	Zs	Cs
160:	101	15	42
75:	498	23	98
40:	730	32	129
1	1,718	40	178
1	2,400	40	179
0	1,742	36	170
TOTAL:	7,189	186	796 - 20.17M

K2TR M/M:

BAND	Qs	Zs	Cs
160:	122	12	36
75:	532	21	87
40:	504	32	110
1	1,510	39	156
1	1,849	38	159
0	1,468	35	156
TOTAL:	6,085	891	704 - 14.9M

W3LPL M/M:

BAND	Qs	Zs	Cs	
160:	76	14	37	
75:	496	23	99	
40:	595	33	122	
1	1,810	40	181	
1	1,830	37	175	
0	1,627	36	168	
TOTAL:	6,431	183	782	= 17.3M

K3LR M/M:

BAND	Qs	Zs	Cs	
160:	125	13	33	
75:	120	21	82	
40:	501	31	109	
1	1,552	40	165	
1	1,812	38	157	
0	1,678	35	164	
TOTAL:	6,088	178	710	= 14.7M

N3RS M/S:

BAND	Qs	Zs	Cs	
160:	35	13	27	
75:	112	18	71	
40:	146	30	105	
1	727	40	153	
1	836	37	160	
0	1,099	34	157	
TOTAL:	2,957	172	673	= 7.1M

W4MYA M/M:

BAND	Qs	Zs	Cs	
160:	15	9	21?	
75:	302	19	78	
40:	418	32	114	
1	1,027	40	149	
1	1,307	38	150	
0	937	34	139	
TOTAL:	4,023	172	651	= 8.9M

WM5G S/O Unlimited:

BAND	Qs	Zs	Cs	
160:	29	9	25	
75:	84	22	58	
40:	308	35	114	
1	461	36	142	
1	721	36	153	
0	1,210	33	170	
TOTAL:	2,813	171	662	6.7M

New Crew

Please welcome the following new and returning members who joined at the Boxboro convention meeting:

Harold Kramer, WJ1B
77 Cherry St.
Cheshire, CT 06410
home phone: (203)272-8134
work phone: (203)736-2691

Lajos Gergely, AA1BW (also HA0DR)
51 Parkton Rd. #1
Boston, MA 02130
home phone: (617)983-9033

Norman L. Rivers, W1BYH
112 Bonnydale Road
Leominster, MA 07853
home phone: (508)537-6082
work phone: (508)342-9697

Ed Lajoie, K1CB
20 Henlock St.
Norwood, MA 02062
home phone: (617)762-5184

John A. Gaidos, N1HFE
2 Shore Drive
Henniker, NH 03242
home phone: (603)428-3087
work phone: (603)472-4934

Bill Wilder, KD1HN
Box 111
Roslindale, MA 02135
home phone: (617)327-7127

Joseph Fitzgerald, KM1P
333 Albany Shaker Rd.
Albany, NY 12211
work phone: (518)459-1080

Douglas Crittendon, NJ1T
52 High St.
Dalton, MA 01226
home phone: (413)684-4030
work phone: (413)684-0441

Jim McHale, NM1W
356 Main St.
Hampstead, NH 03841
phone: (603)329-7885

Robert Tublitz, WT2Q
P. O. Box 847
Stockbridge, MA 01262
home phone: (413)298-4222

Andy Stchislenok, AA3BG (also RC2AR)
17704 E. 14th St., Apt. 6F
Brooklyn, NY 11229
home phone: (718)871-0361

Ron Sprague, N6CJM
9 Fairview Ave.
Attleboro, MA 02703
home phone: (508)226-2682
work phone: (508)261-4423

Bill Ralston, AI6E
21 Friendship St.
Billerica, MA 01821
home phone: (508)667-0097
work phone: (617)271-6238

Movers and Shakers

New address for Sasha, WK1O:
74 Vernon Road
Belmont, MA 02178
home phone: (617)484-9153

New address for Mike, WM1K:
P. O. Box 593
Bedford, MA 01730
home phone: (617)275-7564

New address for Mark, K1RX:
205 Amesbury Road
Kensington, NH 03827
home phone: (603)394-7048
work phone: (508)388-5210 x 408

New address for Greg, KB2EIK:
16 Sheraton Drive
Ithaca, NY 14850-1669

New address for Ray, WF1B:
35 Colvintown Road
Coventry, RI 02816
Home phone: (401)823-7889

Sweepstakes Rumors

High power:

CALL	QSOs	Secs	Score
K1AR	565	77	87,010
K1DG	1,154	77	177,716
WZ1R op			
K1EA	1,282	77	197,428
WA1G	476	76	72,352
WB1GQR	1,013	77	156,002
K1LL	1,111	77	171,094
K1TO	1,285	76	195,320
W1WEF	1,160	77	178,640
KQ2M	437	71	62,054
W2RQ	1,195	77	184,030
KZ2S	1,242	77	191,268
WA2STM	919	76	139,688
WR3G	1,164	77	179,256
K3LR	1,314	77	202,356
KE3Q	1,224	77	188,496
K3ZO	1,154	76	175,408
N4RJ	1,451	77	223,454
N5AU	1,433	77	220,682
WN4KKN op			
K5GN	1,302	77	200,508
KN5H	838	76	127,376
WB5NXH	982	76	149,264
WB5VZL op			
AD5Q	1,169	77	180,026
W5UMU	1,383	77	319,473
K6LL	1,303	77	200,662
N6TR	1,364	?	?
AA6TT	1,258	?	?
WA7NIN	1,247	77	192,038
N6TV op			
KW8N	1,171	77	180,334
WD8IXE op			
N8RR	1,221	77	188,034
WX9E	900	77	138,600
W9RE	1,207	77	185,878
KE9Z	1,008	77	155,232
N0BSH	151	53	16,006
KF0H	1,100	77	169,400
KB0G	1,200	77	184,800
KM0L	1,102	77	169,708
NC0P	1,276	77	196,504
AG9A op			
K0RF	1,329	77	204,666
N0XA	1,110	77	170,940
K0VBU op			
VE2FU	912	77	140,448
VE3EJ	1,363	77	209,902
K5ZD op			

Low power:

CALL	QSOs	Secs	Score
W1CSM	696	76	105,792
KC1F	946	76	143,792
K1IU	1,018	77	156,772
NO1J	168	65	21,840
K1VSJ	239	69	32,504
W2GD	1,063	77	163,702

W2PA	803	76	122,056
WA2STM	919	76	139,688
W2TZ	1,125	?	?
WA2VYA	788	76	119,776
WN3K	372	74	55,056
N4AA	947	77	145,838
WC4E	1,022	77	157,388
KC5DX	945	77	145,530
WQ5W op			
N5RZ	1,199	77	184,646
KA5W	1,018	77	156,772
AI6E	766	76	116,432
KN6M/5	1,130	77	174,020
K6XO/7	516	77	79,464
AA7BG	750	77	115,500
KV8Q	839	77	129,206
KF8QE	618	75	92,550
AG9C	920	77	141,680
KO9Y	811	76	123,272
K0EU	1,142	77	175,868
WB0O	967	77	148,918
NP4Z	1,100	76	167,200
VE5MX	883	77	135,982

QRP:

CALL	QSOs	Secs	Score
WA1GUV	624	77	96,096
K1TR	718	76	109,136
KR2J	640	76	97,280
AA2U	694	76	105,488
KB4GID	541	77	83,314
WA4PGM	432	76	65,664
W9UP	791	77	121,814
KA9FOX op			
K0EJ	660	76	100,320

Multi-operator:

CALL	QSOs	Secs	Score
K2ZJ	1,075	77	165,550
WM4T	1,235	76	187,720
K5OJI	1,075	77	165,550
W6GO	1,406	77	216,524
WD8O	575	77	88,550
K9LUW	799	76	121,448
AA0FU	910	76	138,320
WD0T	1,219	77	187,726

Stacking Tribanders the Easy Way

Dick McDuffie, NY1E

There is a lot of talk recently about stacking a pair (or more) of tri-band beams. I've heard several stations describe their system of switching upper, lower, or both, and haven't heard the same way twice, but they all had complexity in common. I make no claims that this system is techni-

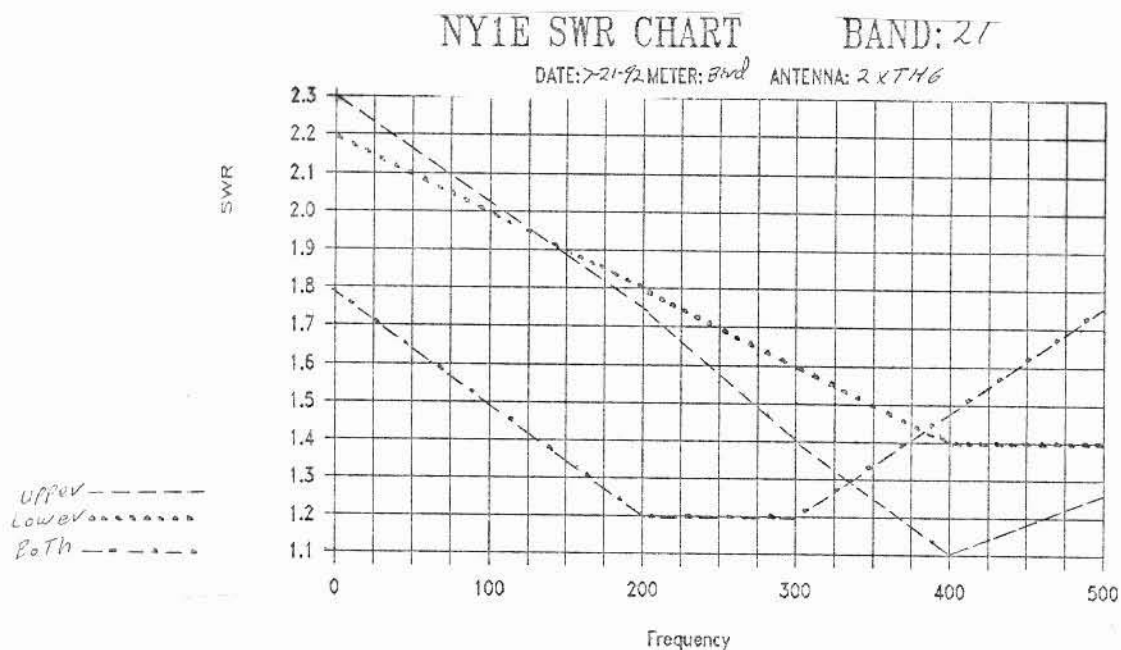
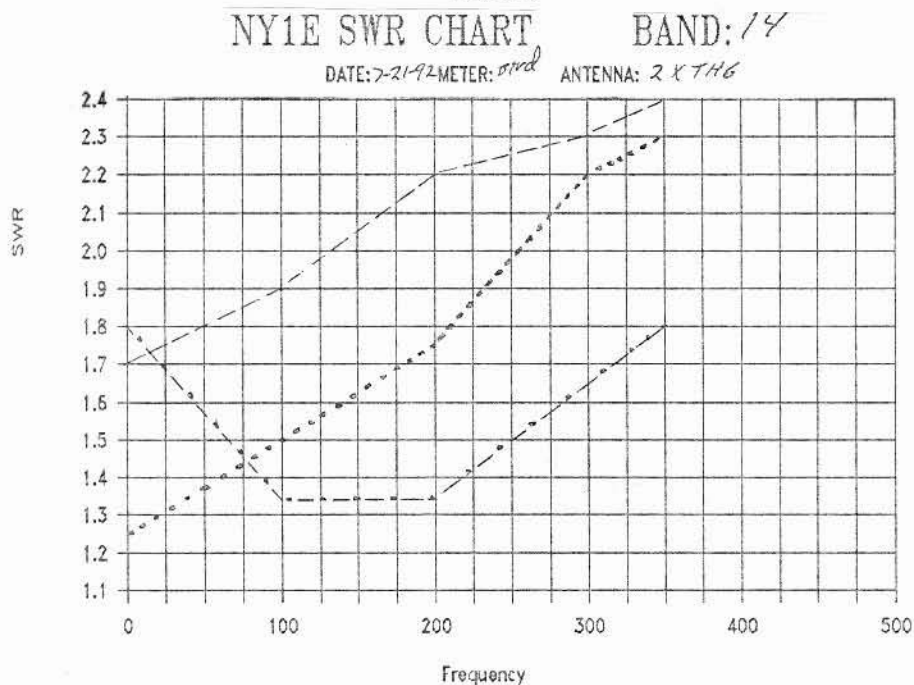
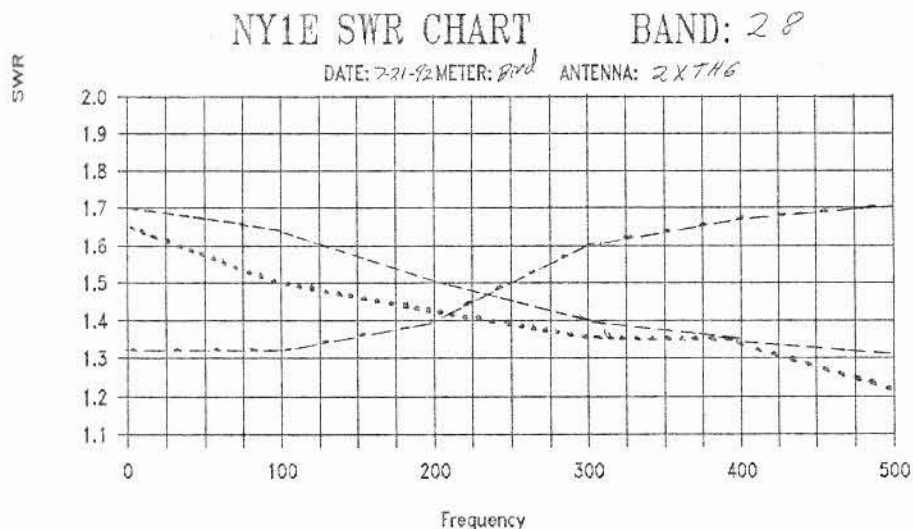
cally correct, but I have been using it since 1989, and wouldn't have anything else now.

Knowing that the bands (20, 15, and 10) are harmonically related, I sat down with a fifth and a calculator and by trial and error found a length of coax that is close to an odd multiple of electrical quarter waves on the three bands (.66 velocity factor): 20 meters five electrical quarter waves = 58', 15 meters seven electrical quarter waves = 54', and 10 meters nine electrical quarter waves = 52.2'.

I made two RG-11 cables 54' long, and fed them with a tee into two Cantennas and had flat SWR across all three bands (and had a high power dummy load!). So I decided it was worth picking up another tribander, if only to satisfy my curiosity. I use a Dow-Key remote switch with separate coils for each position so I can run either antenna individually, or both at once. Leaving the 75 ohm coax in line when using only one antenna, only moved the resonant frequency a little. I am now running a pair of TH-6DXXs at 45 and 90 feet on separate rotors with upper, lower, both in phase, and both out of phase switching. The phase switching is accomplished with a DPDT relay between the balun and the driven element of one antenna wired so as to cross the wires, as in reversing polarity. This puts the antennas 180 degrees out of phase without regard to frequency.

As can be seen by the SWR charts taken at 100 kHz points, the SWR is less than 1.8:1 across the bands feeding both antennas, with a maximum of 2.4:1 feeding a single beam with the 75 ohm coax in place. While I have found the radiation angle diversity and occasional gain worth the trouble, the best use is running two directions at once in my favorite contests. In the 10 meter test, keeping one on Europe, and one stateside keeps the rate up. In SS I leave one on the last multiplier I need, normally VY1 or KP2.

I have tried different heights for the lower antenna. 30' played better on 10 meters but worse on the other bands. So a third antenna would be nice, but I guess it can wait until the next cycle peak.



THE CLUB RESOURCES PAGE

The Place to Find Club Information

DUES are due at the April election meeting, which begins our club "contest year", with a grace period until the end of June. Membership in the club will lapse at the end of the grace period if dues are not paid up. In order to re-join the club, a lapsed member must attend a meeting, like any new member, and be welcomed back into membership, or may become a subscriber to the *Scuttlebutt* by paying up (see below). Club members who move out of club territory and so are not eligible to contribute to club aggregate scores automatically become subscribers. New members who join at the last meeting of the club's contest year (February) are credited with dues for the following year (that is, the contest year beginning that April). You can tell if you owe dues by checking your 'Butt mailing label. Only paid-up members are eligible to contribute to the club score in contests.

FAMILY MEMBER Members of the same family living at the same address may elect to receive only one copy of the *Scuttlebutt*. One member of the family must pay full dues, enabling the rest of the family to join as family members. Being a family member is currently free.

STUDENT MEMBERS Full-time students are eligible for dues at half the regular rate.

SCUTTLEBUTT SUBSCRIBERS Anyone may subscribe to the club newsletter, the *Scuttlebutt*. A subscription currently costs \$10 per year. At the present time, overseas subscriptions cost the same as domestic (we have very few overseas subscribers). The subscription period begins at the beginning of the club year, in April. New subscribers who begin their subscriptions after the December issue are considered to have paid for the following year (that is, they receive as many issues as new members joining at that time do). You can tell if your subscription is current by checking your 'Butt mailing label. The grace period for late subscriptions is the same as for late memberships.

SCUTTLEBUTT ARTICLES should be sent to the *Scuttlebutt* editor, Paul Young, K1XM, 11 Michigan Drive, Hudson, MA 01749, home phone (508)562-5819. The deadline for each issue is usually three weeks before the next meeting.

CLUB JACKETS We are looking for someone to coordinate club jackets. If you can help contact Ed Kritsky, NT2X, 580 East 17th Street, Apt. 2F, Brooklyn, NY 11226, home phone (718)284-4493.

CLUB QSL CARDS are ordered through John Dorr, K1AR, 2 Baldwin Street, Windham, NH 03087, home phone (603)434-5661.

PACKET NET information is available from Dick Newell, AK1A, 8 Golden Run Rd., Bolton, MA 01740, home phone (508)779-5198, or Dave Robbins, KY1H, Baumann Road, Peru, MA 01235, home phone (413)655-2714.

CONTEST SCORES are sent to the club scorekeeper, Kurt Pauer, W1PH.

CLUB ROSTER appears in the summer issue of the *Scuttlebutt* every year. Updates are published when members move or change callsigns. If you want a new copy of the club roster, contact the club secretary/treasurer, Charlotte Richardson, KQ1F, 11 Michigan Drive, Hudson, MA 01749, home phone (508)562-5819.

CONTRIBUTIONS The YCCC welcomes your contributions, be it money to help offset the cost of the *Scuttlebutt* and club operations, scores for the club aggregate score, time spent helping other members, articles for the *Scuttlebutt*, or presentations at club meetings.

DXCC LIST The club maintains a one-page version of the ARRL DXCC Countries List. To get a copy, send an SASE to the club secretary, Charlotte Richardson, KQ1F, 11 Michigan Drive, Hudson, MA 01749. Complete DXCC rules are only available from the ARRL.

CT by K1EA is available from Bill McGowan, KC1EO, 33 Truell Rd., Hollis, NH 03049. Send \$40 (US funds) to register and receive the latest version. CT phone: (603)465-2392. CT BBS: (603)465-2161 (1200/2400 N81). Visa/MC accepted.

W1 QSL Bureau is sponsored by the YCCC. Keep your account up to date with SASEs, or send a check. Stamps are sold at face value, envelopes are 10 cents each. W1 QSL Bureau - YCCC, PO Box 216, Forest Park Station, Springfield, MA 01108.

ARRL LIAISON For ARRL matters, contact Tom Frenaye, K1KI, PO Box 386, West Suffield, CT 06093, home phone (203)668-5444.

Dues are \$15 per year, payable 1 April. Non-members may subscribe to the Scuttlebutt by sending \$10 to the treasurer: Charlotte Richardson, KQ1F, 11 Michigan Drive, Hudson MA 01749. Subscribers who subsequently become members will be credited as having paid \$10 towards dues.

The Scuttlebutt may be reprinted in whole and in part, except for separately copyrighted articles, provided proper credit is given.

The Yankee Clipper Contest Club (an ARRL affiliated club) holds six official meetings per year, on the Saturday or Sunday afternoon of the first full weekend of every even month, usually in the Sturbridge, Massachusetts area. The deadline for article submission to the Scuttlebutt is usually three weeks before the next meeting date. The next meeting will be on Saturday, December 5, 1992. Attendance at an official meeting is required in order to become a member. Club members congregate on 3830 after contests. The packet frequencies for DX spotting are 144.95, 145.69, 144.93, 144.97 and 144.99 MHz.

Rosters are mailed to all paid members each summer. For more information and/or assistance, contact the area manager nearest you.

Officers:

President	Rich Gelber	KC1F	212-580-1075
VP-Activities Manager	Saul Abrams	K2XA	518-439-5700
Secretary-treasurer	Charlotte Richardson	KQ1F	508-562-5819
Editor	Paul Young	K1XM	508-562-5819

Area Managers:

Area	Call	Name	Home	Work
CT/RI	K1RU	Gene Frohman	203-393-1772	203-386-6137
EMass	N1AU	Bill Santelmann	617-862-1753	508-692-6000
WMass	W1GG	Gary Gaudette	413-443-3404	
VT/NH	K1GW	Glen Whitehouse	603-673-6290	603-627-7877
ME	N1AFC	Peter Archibald	207-767-2169	207-797-8931
NLI	NQ2D	Jim Metcalf	516-744-9422	516-467-4800
NNY	K2TR	Fred Lass	518-355-4813	518-346-6666
SNY/NJ	K2EK	Bill Gioia	914-221-1672	914-697-3250

YCCC
11 Michigan Drive
Hudson, MA 01749

First Class

Reminder: Work S79S in the CQ WW CW!!!