

THE 6 METER NET CHRONICLES

Larry Royster, KI4FYR

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NOTE! Promote Our 6 Meter Net NOTE!
NOTE! Promote All Amateur Radio Nets NOTE!

PURPOSE

The purpose of this information source is to keep interested parties abreast of the amateur radio activities and other deemed pertinent ham related topics on the TEARA 6 meter chat/information net held each Thursday at 8:30 pm using the 53.03 six meter repeater (K4ITL, FM) located just south of Raleigh, NC at Lake Wheeler. The 53.03 repeater is owned by Danny Hampton, Jr. and we have been given permission by him to use it.

CONTRIBUTING

If you have any information that would be pertinent to the amateur radio participants of this net please send it to ki4fyr@bellsouth.net for inclusion in a future issue. Also send a note to this address if you, or a friend, wish to be included in the email distribution for issues of the 6 Meter Net Chronicles.

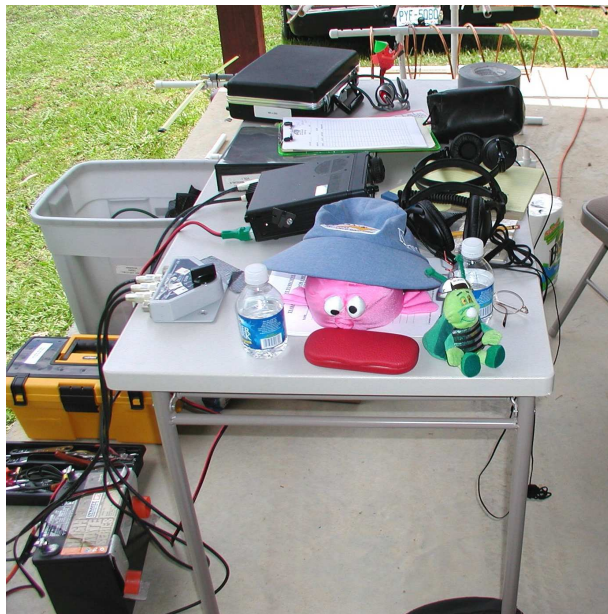
NET ACTIVITY SUMMARY

During the month of JUNE, the TEARA 6 meter net handled 44 check-ins covering an area of approximately a 50 mile radius from Danny Hampton's 53.03 repeater. A table and map showing the activities to date are included as **Appendix A** of this document. To-date we have had 63 different check-ins into our 6 meter information/chat net!

TEARA (Triangle East Amateur Radio Association)

The Triangle East Amateur Radio Association meets the fourth Tuesday of each month, at 7:00 pm, in the social hall of the Wendell United Methodist church. Individuals start arriving around 6:00 to 6:30 pm and bring their dinner and socialize until the meeting starts at 7:00 pm. TEARA has very good programs of interest to hams. Please give the club a visit and consider becoming a member. TEARA does not meet during the month of December.

TEARA CLUB 2006 FIELD DAY PICTURE



Some Of The Participants Were A
Little Odd!!!!!!!

SOLAR FLARE RATINGS INFORMATION SOURCE!

A flare is defined as a sudden, rapid, and intense variation in brightness from the surface of the sun. A flare occurs when magnetic energy that has built up, typically in the vicinity of a sunspot, is suddenly released. As a result radiation across the electromagnetic spectrum is emitted, across virtually the entire spectrum, from radio waves at the long end to x-rays and gamma-rays at the short wavelength end.

The general classification of solar flares follows the guidelines as given in Table 1. The individual letters are further divided into categories, e.g., X1 - X9. I guess the bottom line is if you hear that an X level flare has occurred, you should expect major disruptions here on earth! For a greater explanation of solar flares go to: <http://spaceweather3.com/glossary/flareclasses.html>.

TABLE 1.

<i>Class</i>	<i>Peak (W/m^2) between 1 and 8 Angstroms</i>
B	$I < 10^{-6}$
C	$10^{-6} < = I < 10^{-5}$
M	$10^{-5} < = I < 10^{-4}$
X	$I > = 10^{-4}$

The relationship between the solar flare ratings and the equivalent solar flares energy per square meter is shown in Figure 4 for a couple of major solar flare eruptions that occurred in the past. Do not let the small intensity levels fool you, the total energy developed in a single solar flare is on the order of 10^{27} ergs per second. The larger flares release energy that is ten million times greater than the energy released from a volcanic explosion, but is one-tenth of the total energy emitted by the Sun every second!!!!!! Note in Figure 4 that a log scale is used as is the case for the ratings of hurricanes, etc: therefore, in Figure 4 with each solid line the energy level has increased by a factor of ten!.

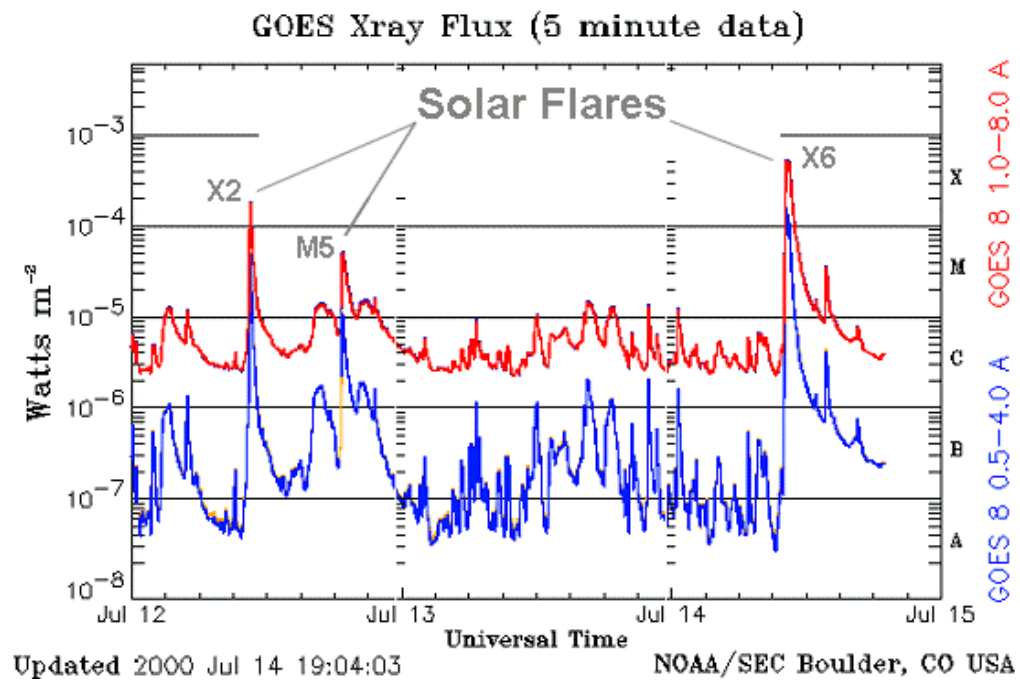


Figure 4.

**THE CONCEPTS BEHIND AMATEUR RADIO
ANTENNAS - PART P - SECTION 3
MEASURED EXPERIMENTAL AND PREDICTED THEORETICAL
DATA FOR MY FIELD DAY 2006
2, 6 AND 10 METER ANTENNAS**

FIELD DAY 2 METER 2 ELEMENT BEAM DESIGN

Presented in Figure 1 are the SWR data measured for my 2 meter 2 element beam: (1) E - On my home experimental stand, (2) T - As predicted by the EZNEC computer program and (3) FD - as measured as used during our Field Day 2006 activities. By in large I am satisfied by the measured data.

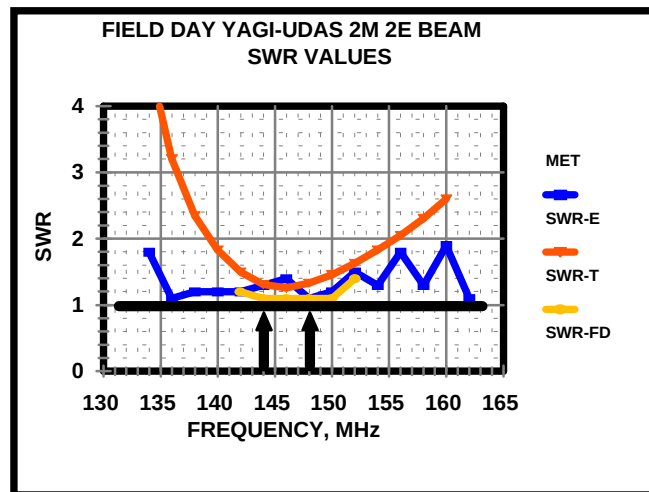


Figure 1.

FIELD DAY 6 METER 2 ELEMENT BEAM DESIGN

Presented in Figure 2 are the SWR data measured for my 6 meter 2 element beam: (1) E - On my home experimental stand, (2) T - As predicted by the EZNEC computer program and (3) FD - as measured as used during our Field Day 2006 activities. Again, the data look reasonable. In both instances, 2 and 6 meter, I was a little surprised that the FD data did not show a greater variation in that the beams were located around 12 feet above basically what was a granite base surface with 0-2 feet of soil spread over it. It was somewhat difficult to find places where we could use my post-hole digger to create a hole deep enough to support our antenna base PVC piping structure.

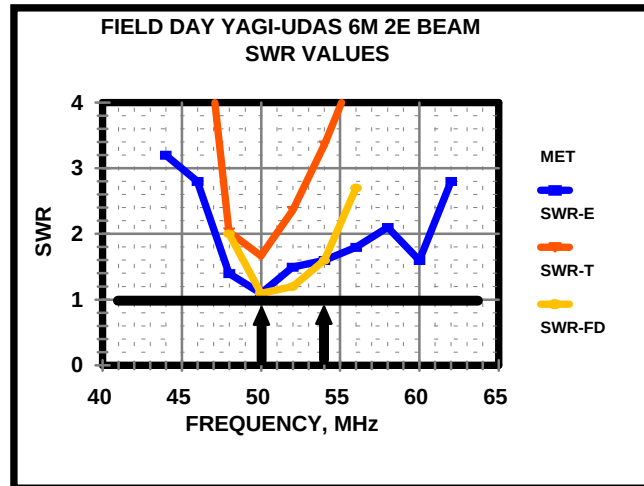


Figure 2.

FIELD DAY 10 METER DOWNWARD SLOPING (APPROXIMATELY 40 DEGREES) DIPOLE ANTENNA

Presented in Figure 3 are the SWR data measured for my 10 meter sloping dipole antenna: (1) E - On my home experimental stand, (2) T - As predicted by the EZNEC computer program and (3) FD - as measured as used during our Field Day 2006 activities. I was somewhat amazed that the home experimental and FD measured were identical. I have rechecked the data, etc. several times, but the data were in fact the same.

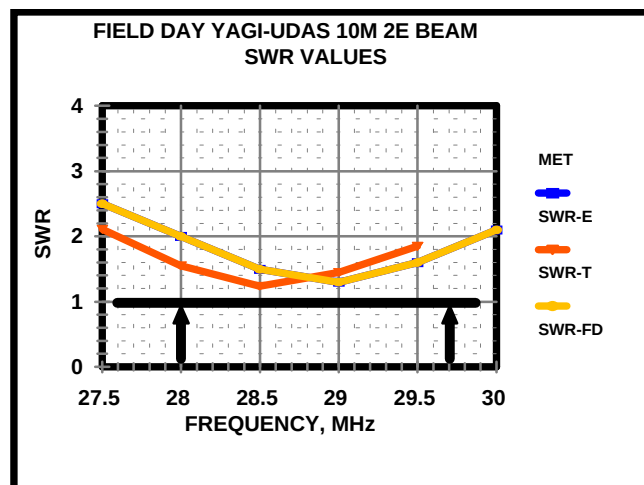


Figure 3.

CONCLUDING COMMENTS

It is somewhat comforting that the performances of Amateur Radio antennas, at least those that I have tried to construct in the past, continue to exhibit very similar SWR characteristics even in what I would describe as significantly different surroundings. I was pleased, to say the least, in that my selected antenna designs worked so well during Field Day 2006. It was a great experience.

Coming, Part O, Section 2

In Part O, Section 2, I will conclude my comments about the design of my 2 meter log-periodic antenna.

RECEIVED FROM A FRIEND!

The Elevator

An Amish family was visiting a mall for the first time. The boy and his Father were amazed by almost everything they saw, but especially by two shiny, silver walls that could move apart and then slide back together again. The boy asked, "What is this, Father?" The father (never having seen an elevator) responded, "Son, I have never seen anything like this in my life, I don't know what it is." While the boy and his father were watching with amazement, a fat old lady in a wheel chair moved up to the moving walls and pressed a button. The walls opened and the lady rolled between them into a small room. The walls closed and the boy and his father watched the small circular numbers above the walls light up sequentially.

They continued to watch until it reached the last number and then the numbers began to light in the reverse order. Finally the walls opened up again and a gorgeous 24-year old blonde stepped out. The father said quietly to his son: "Go and get your mother."

APPENDIX A

TABLE FOR MONTHLY CHECK IN/OUT TO THE TEARA 6meter THURSDAY NIGHT INFORMATION/CHAT NET - YEAR 2006 MONTH: JUNE

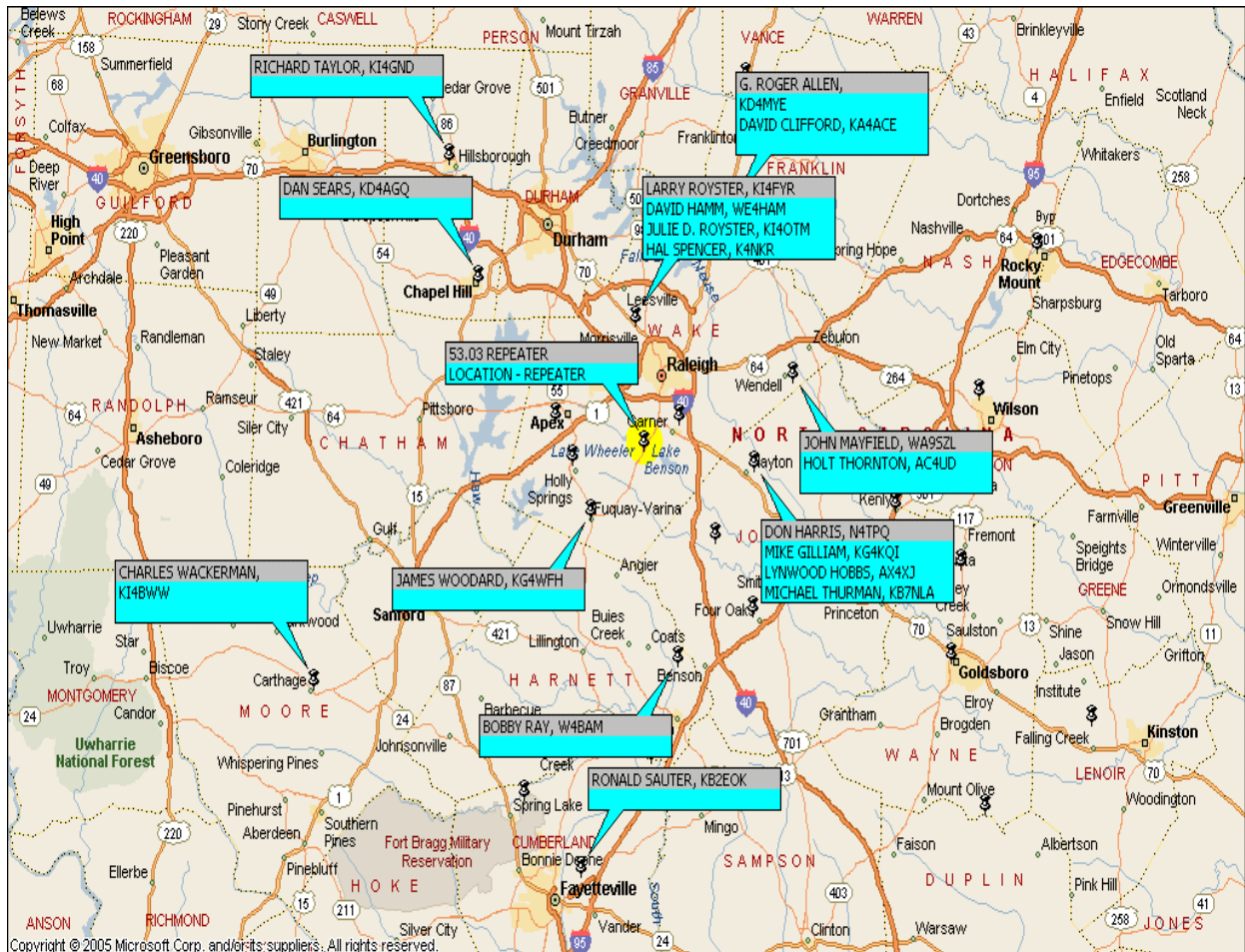
(*) Indicates Net Controller For The Session and (**) In and Out

SEQ	WK 1	WK 2	WK 3	WK 4	WK 5	CALL SIGN	NAME	LOCATION	COMMENTS
1	X	X				AC4UD	HOLT THORNTON	WENDELL	
2						AD4XE	FRANCIS DRAKE JR	GARNER	FRANK
3	X	X				AF4XJ	LYNWOOD HOBBS	CLAYTON	
4						AG4WE	FREDERICK BREIDT	RALEIGH	FRED
5						AI4FQ	BOBBY CARLYLE JR	DOVER	BOB
6						K4JDR	RONNIE CASEY	RALEIGH	RON
7						K4NGJ	BYRON KING	RALEIGH	
8		X		X		K4NKR	EARNEST SPENCER	RALEIGH	HAL
9						K4WDE	WALT EDMUNDSON	WAKE FOREST	
10						K4WIX	JACKIE WILLIAMS	WENDELL	
11						K9TJE	TERRY EDWARDS	ROCKY MOUNT	TED
12						KA0GMY	STEVEN MOWELS, SR	RALEIGH	
13						KA3SEI	ROB RUFF	APEX	
14		X				KA4ACE	CLIFFORD DAVIS	WAKE FOREST	CLIFF
15						KA9QJT	BRIAN YOUNG	RALEIGH	
16						KB2EOK	RONALD SAUTER	FAYETTEVILLE	RON
17						KB4PQJ	STEVE VON DOHLEN	RALEIGH	
18	X					KB7NLA	MICHAEL THURMAN	GARNER	MIKE
19						KC4PHJ	ALEX MACKLIN	HOLLY SPRINGS	
20	X	X*		X	X*	KD4AGQ	DAN SEARS	CHAPEL HILL	
21	X					KD4MYE	GLENN R ALLEN	WAKE FOREST	ROGER
22						KD4CHT	ALAN AYCOCK	PRINCETON	
23						KD4JWF	JOSE GUZMAN	GARNER	
24						KE4HXV	SAMUEL HAWKINS	TRENTON	SAM
25						KF4FJJ	JOHN BREEDLOVE	GOLDSBORO	
26						KF4VXJ	DAVID CRAWFORD	RALEIGH	
27						KG4HNB	BILLY SMITH	HILLSBOROUGH	
28	X		X		X	KG4KQI	MIKE GILLIAM	CLAYTON	
29						KG4QYK	JAMES P WILSON	CARTAGE	
30						KG4VDM	JACOB ALDERMAN III	WAKE FOREST	JAKE
31						KG4VXJ	RANDALL BARTLETT	FLINT HILL, VA	GERONE
32						KG4WVU	STUART SMITH	PINK HILL	
33	X**					KG4WFH	JAMES WOODARD	FUQUA VARINA	KERBIE
34						KG4WFG	HARRY GATES	GOLDSBORO	
35						KG4UXR	DAVE SUTTON	DUNN	
36						KG4ZHK	JEROME EDGELEY	KENLY	
37	X	X**	X	X	X	KI4BWW	CHARLES WACKERMAN	CARTHAGE	
38	X	X	X	X	X	KI4FYR	LARRY ROYSTER	RALEIGH	
39	X	X	X	X	X	KI4OTM	JULIE ROYSTER	RALEIGH	
40			X	X		KI4GND	RICHARD TAYLOR	HILLSBOROUGH	RICK
41						KI4IHX	PHILIPPE HOSTER	CARY	PHIL
42						KI4IWZ	JAMES DRIVER JR	KENLY	
43						KJ4RB	DONALD SMITH	PINK HILL	DON
44						KM4DA	CADDELL 3, WILLIAM	WAKE FOREST	WILLIE

SEQ	WK 1	WK 2	WK 3	WK 4	WK 5	CALL SIGN	NAME	LOCATION	COMMENTS
45						N4TBL	TERRY LEWIS	CLAYTON	
46						N4TL	THOMAS LEWIS	RALEIGH	TOM
47						N4DIL	KENNETH HOLMES	RALEIGH	VADEN
48						N4PLC	PHILIP COCKRELL	WILSON	PHIL
49						N4TPQ	DON HARRIS	CLAYTON	
50	X	X**	X	X*	X	W4BAM	BOB RAY	BENSON	
51						W4FHC	FREDRICK CROSBY	GOLDSBORO	FRED
52						W4DNA	ROY DAVID	GOLDSBORO	
53						W4JRZ	MICHAEL CALLAM	FOUR OAKS	MIKE
54						W4SIS	LEWIS THOMAS	RALEIGH	TOM
55						WA4PXV	DAN RENFRO	GRIFFINS CROSS R	
56						WA4IAJ	SCOTT MEDLEY		TIM?
57						WA9SZL	JOHN MAYFIELD	WENDELL	
58						WB4IUY	DAVID HOCKADAY	YOUNGSVILLE	
59						WB7OND	RICHARD LINDER	FAYETTEVILLE	DICK
60						WD4MB	MICHAEL BALDOCK	WILLOW SPRINGS	MIKE
61	X	X	X	X	X	WE4HAM	DAVID HAMM	RALEIGH	
62						WI4PER	CECIL PERKINS	PIKEVILLE	
63						WW4TLB	THOMAS BABB	HOLLY SPRINGS	TOMMY
XX						K4ITL -53.03	REPEATER-DANNY HAMPTON	LAKE WHEELER	RALEIGH
D	1	8	15	22	29				
TO	12	10	7	8	7	TT = 44			

SPECIAL NOTE

Note! Only those individuals who have checked into the 6 meter net during a previous three month period (April, May, June) are listed on the map below. In the future the map shown will be updated at the end of each new quarter period.



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