



N.E.W.S. LETTER

The Official Publication of the North East Weak Signal Group – http://www.newsvhf.com/

September 2017 Volume 26 Issue 5

Next Meeting: September 23, 2017 Rovers!

Dick, WA2AAU is putting together a program on Rovers for us. Watch for his posting to the NEWS Group Reflector for more details.

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BOARD MEETING - 11:00 AM at Lulu's, 151 Hazard Ave. Enfield, CT Phone: (860) 763-2377 I-91 Exit 47 Rt. 190E 1 Mile on Left

http://luluspizzeria.com

GENERAL MEETING - STORRS LIBRARY - from 1 PM to approximately 3:45 PM.
693 Longmeadow St, Longmeadow, MA 01106
http://longmeadowlibrary.wordpress.com

DON'T FORGET

The North East Weak Signal Group 2 Meter Net Every Thursday at 8:30 PM local 144.250 MHz W1COT, WZ1V or K1PXE Net Control

MEMBERSHIP in the N.E.W.S Group is \$15 per year.

Apply to John Crawford, N2OY. E-mail: n2oy.vhf@gmail.com.

You may download an application from our web page: http://www.newsvhf.com

The N.E.W.S. LETTER is the publication of the North East Weak Signal Group. Articles may be reprinted with proper credit given to the author and the N.E.W.S. LETTER. Send articles by e-mail to George Collins, KC1V at news.kc1v@qmail.com.



The newlyweds 1 hour before tying the knot!

Congratulations and Best Wishes to Don, WIFKF and Lanette, KAINKD from all of us in the NEWS Group

N.E.W.S. Picnic MDS/ERP Testing 2017

Don W1FKF

donw1fkf-news@yahoo.com

MDS (Minimum Discernable Signal) and ERP testing on 10 GHz, 24 GHz, 47 GHz. and 78 GHz. To test for MDS, we set up a distant signal source. After everyone has a chance to peak up on the signal, the signal level is reduced one dB at a time. At the point when you can no longer hear it, you have found the MDS for your system. You decide how well it works, and whether you can hear as well as Don and Dale.

We also check relative ERP, transmitting one at a time and recording the relative power received at the distant point using a spectrum analyzer.

The ERP results for the 10 GHz test are inaccurate, caused by not having enough attenuation between the feed and converter, skewing the data. This was realized after reviewing the results, and will be rectified for the next picnic.







					N	WS Picnic N	MDS/ERP 2	2017					
	10	O GHz MD	S					1	0 GHz EF	RP			
		_	_			Difference							Difference
Call	Dish Type	Dish size	Power	MDS	TX	From best	Call	Dish Type	Dish size	Power	MDS	TX	From best
AF1T	Prime	24	10W	-75	-42.8	0	WB2BYP	OFFset	18	20W	-72	-42.4	0
Ka1OJ	OFFset	24	6W	-72	-47	3	AF1T	Prime	24	10W	-75	-42.75	0.35
W1FKF	OFFset	18	7W	-72	42.82	3	W1FKF	OFFset	18	7W	-72	-42.82	0.42
W1GHZ	OFFset	18	3W	-72	-47.9	3	KC1SJ	Prime	24	3.5W	-71	-43.78	1.38
WB2BYP	OFFset	18	20W	-72	-42.4	3	Ka1OJ	OFFset	24	6W	-72	-47	4.6
KC1SJ	Prime	24	3.5W	-71	-43.8	4	W1GHZ	OFFset	18	3W	-72	-47.86	5.46
K2AEP	OFFset	22	.2W	-68	-82.8	7	Wa1MBA	OFFset	18	2W	-64	-49.86	7.46
Wa1MBA	OFFset	18	2W	-64	-49.8	11	W1FKF	Panel	12	.35W	-58	-61.76	19.36
W1FKF	Panel	12	.35W	-58	-61.8	17	WW1Z	Horn	23 dB	1W	-55	-67.73	25.43
WW1Z	Horn	23 dB	1W	-55	-67.7	20	K2AEP	OFFset	22	.2W	-68	-82.8	40.4
	24 GHz MDS						24 GHz ER		2 D				
		. 51.12 1410				Difference			. 5.12 21				Difference
Call	Dish Type	Dish size	Power	MDS	TX	From best	Call	Dish Type	Dish size	Power	MDS	TX	From best
AF1T	Prime	12 inch	2 W	-31	-96.6	0	Ka1OJ	OFFset	18 inch	4 W	-29	-79	0
Ka1OJ	OFFset	24 inch	Z VV	-31	-30.0	0	N1JEZ	Prime	20 inch	1.75W	-31	-84	5
N1JEZ	Prime	20 ich	1.75W	-31		0	Wa1MBA	OFFset	18 inch	2 W	-20	-84.5	5.5
W1FKF	OFFset	18 inch	.5W	-31	-93	0	W1FKF	OFFset	18 inch	.5W	-31	-93	14
Ka1OJ	OFFset	18 inch	.5W	-29	-79	2	AF1T	Prime	12 inch	2 W	-31	-96.6	17.7
W1EX	Prime	12 inch	.75W	-29	-101	6	W1EX	Prime	12 inch	.75W	-26	-101.3	22.3
Wa1MBA	OFFset	18 inch	2 W	-20	-84.5	11	K2CBA	Prime	16 inch	0.125	-20	-101.5	22.3
K2CBA	Prime	16 inch	0.125	-20	-04.5	11	Ka1OJ	OFFset	24 inch	0.125	-31		-
W1GHZ	OFFset	18 inch	.5 W			-	W1GHZ	OFFset	18 inch	.5 W	-31		-
	47 GHz MDS					4	17 GHz ERP						
						Difference							Difference
Call	Dish Type	Dish size	Power	MDS	TX	From best	Call	Dish Type	Dish size	Power	MDS	TX	From best
VE2UG	Prime	12 Inch	700 mw	-48	-82.2	0	VE2UG	Prime	12 Inch		-48	-82.16	0
WB2BYP	Prime	12 Inch	40 mw	-47	-89.7	1	Ka1OJ	Prime	10 inch	30 mw	-46	-87	4.84
Ka1OJ	Prime	10 inch	30 mw	-46	-87	2	W1FKF	Prime	12 inch	40 mw	-46	-87.76	5,16
W1FKF	Prime	12 inch	40 mw	-46	-87.8	2	WB2BYP	Prime	12 Inch	40 mw	-47	-89.72	7.56
N1JEZ	Prime	10 inch	30 mw	-46	07.0	2	WA1MBA		15 ich	40 mw	-39	-94.5	12.34
WA1MBA		15 ich	40 mw	-39	-94.5	9	W1GHZ		Horn 23 dE		-30	-97	14.4
AF1T	Prime	12 inch	30 mw	-37	-101	11	AF1T	Prime	12 inch	30 mw	-37	-100.6	18.44
W1GHZ	Horn	Horn 23 dB	30 mw	-30	-97	18	N1JEZ	Prime	10 inch	30 mw	-46	100.0	10.44
W1EX	Prime	12 Inch	10 mw	-25	3,	23	W1EX	Prime	12 Inch	10 mw	-25		
	_												
	78	8 GHz MD	15			2:00							
- ··			_			Difference							
Call	Dish Type		Power	MDS	TX	From best							
N1JEZ	8 inch	prime	0 DBm	-31		0							
Wa1MBA	10 Inch	Lens	0 dBm	-29		2							
W1FKF	12 Inch	prime	0 dBm	-29		2							
Ka1oj	8 inch	prime	mixer	-18		13							
WB2BYP	13 inch	prime	mixer										
Ve2UG	12 inch	prime	Mixer										1



Mid Atlantic States VHF Conference

ARRL Sanctioned

Mid-Atlantic States VHF Conference and Mini-Fest

Hosted by The Mt. Airy VHF Radio Club (Pack Rats)
Friday, Saturday, Sunday October 6-7-8, 2017

Holiday Inn Bensalem-Philadelphia 3327 Street Road Bensalem, PA 19020 215-639-9100

(215) 639-9100 Early Bird rooms \$99+tax

Pogistor on line at www.packratyhf.com

Register on-line at www.packratvhf.com

Conference Early Bird** Registration only \$40 Saturday Evening Early Bird Banquet \$40

Friday Afternoon seminar "Station Automation" Friday evening hospitality and table-top selling Saturday conference presentations & auctions Registration includes pizza lunch and snacks Rohde & Schwarz Technical Testing Room

Saturday evening Banquet buffet dinner with door prizes*
Sunday morning free outdoor mini-flea market

** Early Bird price good through Sept 20.

*You must be registered and paid for conference and banquet to be eligible for door prizes

Mid-Atlantic States VHF Conference and Mini-Fest

Tentative Speakers and Topics:

Roger Rehr W3SZ	Station Automation Seminar (+K3TUF & WA3DRC)
Phil Theis	K3TUF Automation for VHF/UHF/uW Contesting

Jerome Byrd K3GNC "Apartmentyranous Station Rex" Steve Gross N4PZ Yagis: Tales, Tricks and Truths

Russ Lamm NN3Q Building and Operating the NN3Q Rover (+K3WGR)

Gary Hitchner WA2OMY The GPS Project and Packrat Beacon Update

Joe Jesson W2JEJ Dongle Developments

Al Katz K2UYH

Joe Horanzy AA3JH

Michael Davis KB1JEY

Ray Golley N3RG

Stave Simons W4SMS

Getting started on microwave EME (+K1DS)

Talking on 440 THz– Easy LASER! (+AC2CL)

Enhancing your Test Bench Capabilities

Practical Solutions for Station Automation

Steve Simons W1SMS RF Tower Safety and Construction Pete Kobak K0BAK Rover Adventures and Automation

Details and Updates www.packratvhf.com
** Early Bird price good through Sept 20.

*You must be registered and paid for conference and banquet to be eligible for door prizes

Calendar of Upcoming Events

2017 Events

Aug	EME Conference - Texas
Aug 5-6	ARRL 222 MHz & Up Distance Contest - 2pm EDT Sat. to 11pm EDT Sun.
Aug 19-20	ARRL 10 GHz & Up Contest Weekend #1 - 8am EDT Sat. to Midnight EDT Sun.
Sept 8-10	ARRL EME Weekend #1 – 8pm EDT Fri. to 8pm EDT Sun. (2.3GHz & Up)
Sept 9-10	ARRL Sept. VHF QSO Party - 2pm EDT Sat. to 11pm EDT Sun.
Sept 16-17	ARRL 10 GHz & Up Contest Weekend #2 - 8am EDT Sat. to Midnight EDT Sun.
Sept 23	NEWS Lunch and BOD meeting, Lulu's, Rt.190 Enfield, CT, 11:15am
Sept 23	NEWS General Meeting, Storrs Library, Longmeadow, MA, 1pm
Oct 7-8	ARRL EME Weekend #2 – 8pm EDT Fri. to 8pm EDT Sun. (50MHz – 1296MHz)
Nov 4-5	ARRL EME Weekend #3 – 8pm EDT Fri. to 8pm EDT Sun. (50MHz – 1296MHz)
Dec 1-3	ARRL 160-Meter Contest

Calendar of Upcoming Events (cont.)

2018 Events

(*Tentative)

Jan 6*	NEWS Lunch and Board Meeting - Lulu's, Enfield, CT - 11:15am
Jan 6*	NEWS General Meeting, Storrs Library, Longmeadow, MA, 1pm
Jan	20-22 ARRL VHF Contest
Feb 8-11	Hamcation, Central Florida Fairgrounds, Orlando, FL
Mar 17*	NEWS Lunch and Board Meeting, Lulu's, Enfield, CT, 11:15am
Mar 17*	NEWS General Meeting, Storrs Library, Longmeadow, MA, 1pm
Apr 16*	Spring Sprint - 144MHz
Apr 20-22*	Eastern VHF Conference
Apr 24*	Spring Sprint - 222MHz, Tues 7-11pm local
May 2*	Spring Sprint - 432MHz Weds 7-11pm local
May 4-5*	NEAR-fest - Deerfield, NH
May 5*	Spring Sprint 902MHz & Up
May 12*	Spring Sprint 50MHz
May 5*	SBMS 2.3 GHz & up contest
May 18-20	ARRL Hamvention, Xenia, Ohio
May 28	Memorial Day
June 9-11	ARRL June VHF Contest
June 23-24	ARRL Field Day
July 14*	NEWS Picnic and Meeting, K of C, Washington Rd, Enfield, CT, 11am
July*	CQ WW VHF Contest
July*	Central States VHF Society Conference
Aug*	EME Conference
Aug 4-5	ARRL 222MHz & Up Distance Contest
Aug 18-19	ARRL 10 GHz & Up Contest Weekend #1
Sept 7-9*	ARRL EME Weekend #1
Sept 8-10	ARRL Sept. Contest
Sept 15-16	ARRL 10 GHz & Up Contest Weekend #2
Sept 29*	NEWS Lunch and Board Meeting, Lulu's, Enfield, CT, 11:15am
Sept 29*	NEWS General Meeting, Storrs Library, Longmeadow, MA, 1pm
Oct 5-7*	ARRL EME Weekend #2
Oct 12-13*	NEAR-fest - Deerfield, NH
Oct*	Microwave Update
Nov 3-4*	ARRL EME Weekend #3
Nov 17*	NEWS Lunch and Board Meeting, Lulu's, Enfield, CT, 11:15am
Nov 17*	NEWS General Meeting, Storrs Library, Longmeadow, MA, 1pm
Dec*	ARRL 160-Meter Contest

N.E.W.S. Group Supporters







































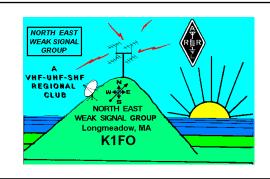






QRPmePO Box 160Limerick, Maine04048 http://www.grpme.com/?p=contact







MEMBERSHIP APPLICATION

Name:					
Call sign:	Gr	id:			
Street:					
City:			State:	Zip: _	
Phone (home) Optional (work)					
Email					
ARRL member: Y N					
Electronic Newsletter Delive	ry: Y N				
Operational Bands (circle)	1.2 GHz	2.3 GHz	3.4 GHz	5.6 GHz	

The North East Weak Signal [N.E.W.S.] Group is being established to form a camaraderie among fellow VHF-UHF-SHF enthusiasts and support a convenient means to exchange technical information. We currently have six meetings per year, held at a centrally located facility and provide a "NEWSLETTER" that is distributed two weeks prior to each meeting. Any contributions to this publication are appreciated and can be sent to: George Collins, KC1V by email to kc1v@arrl.net. Dues are \$15/year. Remember, this group is formed by VHF'ers for VHF'ers.

Mail to:

North East Weak Signal Group c/o N2OY, John Crawford PO Box 1112 Latham, NY 12110

North East Weak Signal Group

c/o N2OY John Crawford, PO Box 1112, Latham, NY 12110

Check your membership Expiration date on your mailing label!