

N.E.W.S. LETTER

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

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Issue 5

Next Meeting: September 29, 2018

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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@gmail.com.

N.E.W.S. Picnic MDS/ERP Test Results 2018

Don W1FKF and the crew

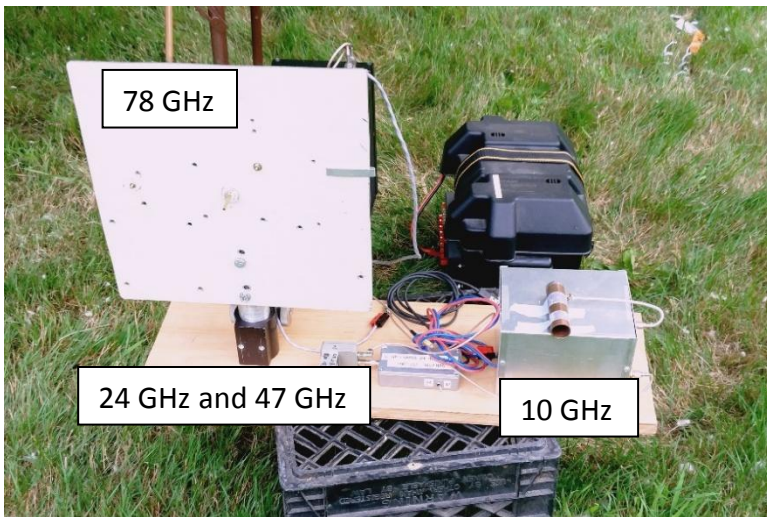
donw1fkf-news@yahoo.com



The 2018 NEWS Group Line-Up ready for MDS and ERP tests

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.



Signal sources used for the MDS testing

Buy, Sell, Swap

Amplifiers - W1OUN

1 - ICOM PW-1 Solid-State Kilowatt (160-6 meters) in excellent condition; \$3K.

2 - A pair, 2-M and 70-CM, of LunarLink amplifiers (personally built by K1FO) with their common 3-kV power supply and the relays, etc. required to put them on the air. They easily deliver 1.5-kW output; \$4K for the lot. I prefer to sell the pair together with the power supply, rather than "orphan" one of them without a power supply. As they are too heavy for me to move into a car, it will be best if anyone interested in them drive up to Concord, MA and view them where they are stored at a local Ham's house. Please contact me, Gordon Pettengill, W1OUN, by e-mail at gpetten@comcast.net for more information.

Wanted

Tripod suitable for microwave transverter and two-foot dish. Contact George, KC1V at ARRL dot NET



Signal source location – approximately 320 feet away

2018 MDS

10 GHz MDS						10 GHz ERP					
Call	Dish Type	Dish size	Power	MDS	TX	Call	Dish Type	Dish size	Power	MDS	TX
N1DPM	Prime	30	8W	-92	-34.6	KA1UAG	OFFset	20	15w	-90	-23.8
AF1T	Prime	24	10W	-91	-25.4	AF1T	Prime	24	10W	-91	-25.4
Ka1OJ	OFFset	24	6W	-90	-28.4	W1FKF	OFFset	18	7W	-90	-25.7
W1FKF	OFFset	18	7W	-90	-25.7	Ka1OJ	OFFset	24	6W	-90	-28.4
KA1UAG	OFFset	20	15w	-90	-23.8	WB2BYP	OFSET	18	10w	-90	-30.6
WB2BYP	OFSET	18	10W	-90	-30.6	W1GHZ	OFFset	18	3W	-86	-34
WZ1V	OFFset	18	2 W	-89	-41.6	N1DPM	Prime	30	8W	-92	-34.6
W1GHZ	OFFset	18	3W	-86	-34	Wa1MBA	OFFset	18	2W	-80	-37.3
K2AEP	OFFset	22	.2W	-86	-89.7	WZ1V	OFFset	18	2 W	-89	-41.6
Wa1MBA	OFFset	18	2W	-80	-37.3	AF1R	Panel	25 dB	3W	-74	-43.7
AF1R	Panel	25 dB	3W	-74	-43.7	N2SPI	Prime	24	0.2 W	-71	-56.5
N2SPI	Prime	24	0.2 W	-71	-56.5	W1RGA	Horn	22 dB	.3 W	-69	-66
W1RGA	Horn	22 dB	0.3 W	-69	-66	K2AEP	OFFset	22	.2W	-86	-89.7
24 GHz MDS						24 GHz ERP					
Call	Dish Type	Dish size	Power	MDS	TX	Call	Dish Type	Dish size	Power	MDS	TX
AF1T	Prime	12 inch	2 W	-43	-58.1	AF1T	Prime	12 inch	2 W	-43	-58.1
W1FKF	OFFset	18 inch	.5W	-43	-62	W1GHZ	OFFset	18 inch	.5 W	-37	-61.6
Ka1OJ	OFFset	18 inch	4	-37		W1FKF	OFFset	18 inch	.5W	-43	-62
W1GHZ	OFFset	18 inch	.5 W	-37	-61.6	Ka1OJ	OFFset	18 Inch	4	-37	
AF1R	OFFset	24 Inch	100 uw	-36		AF1R	OFFset	24 Inch	100 uw	-36	
W1JHR	Prime	12 inch	60 mw	-30		W1JHR	Prime	12 inch	60 mw	-30	
47 GHz MDS						47 GHz ERP					
Call	Dish Type	Dish size	Power	MDS	TX	Call	Dish Type	Dish size	Power	MDS	TX
AF1T	Prime	12 inch	30 mw	-61	-72.2	AF1T	Prime	12 inch	30 mw	-61	-72.2
Ka1OJ	Prime	10 inch	30 mw	-56	-74.1	Ka1OJ	Prime	10 inch	30 mw	-56	-74.1
WA1MBA	Prime	15 inch	40 mw	-51	-80	W1FKF	Prime	12 inch	40 mw	-49	-76.5
W1FKF	Prime	12 inch	40 mw	-49	-76.5	WA1MBA	Prime	15 inch	40 mw	-51	-80
W1GHZ	Horn x2	23 dB	30 mw	-47	-84.2	W1GHZ	Horn x2	23 dB	30 mw	-47	-84.2
W1JHR	Prime	12 Inch	40 mw	-38	-96.9	W1JHR	Prime	12 Inch	40 mw	-38	-96.9
78 GHz MDS						78 GHz ERP					
Call	Dish Type	Dish size	Power	MDS	TX	Call	Dish Type	Dish size	Power	MDS	TX
Ve2UG	24 inch	prime	250 mw	-53	-83.2	Ve2UG	24 inch	prime	250 mw	-53	-83.2
Wa1MBA	10 Inch	Lens	100 mw	-49	-87.8	Wa1MBA	10 Inch	Lens	100 mw	-49	-87.8
N1JEZ	8 inch	prime	5 mw	-48	-105.5	N1JEZ	8 inch	prime	5 mw	-48	-105.5
W1FKF	12 Inch	prime	5 mw	-48	-112.9	W1FKF	12 Inch	prime	5 mw	-48	-112.9
Ka1oj	12 inch	prime	mixer	-23		Ka1oj	12 inch	prime	mixer	-23	



Mid Atlantic States VHF Conference

Hosted by The Mt. Airy VHF Radio Club
(Pack Rats)

ARRL Sanctioned

Friday, Saturday, Sunday September 28-30, 2018

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

(215) 639-9100 Early Bird rooms \$105+tax

Register on-line at www.packratvhf.com

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

Friday Afternoon seminar "N1MM Logger – An Introduction"
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

Tentative Speakers and Topics:

Friday Afternoon Seminar, 2:00 - 5:00 PM:

Roger Rehr W3SZ and Phil Theis K3TUF,
N1MM Logger: An Introduction for First Time Users

Saturday Presentations, 8:00 AM – 5:00 PM:

Rick Rosen, K1DS	"Single-Yagi EME"
Paul Sokoloff WA3GFZ	"A Compact, Multiband Microwave Transverter"
Joe Taylor K1JT	"FT8 and the Summer Es"
Dan Marlow K2QM	"Restoration of the 60' Tiros Dish and EME Activity"
Michael Davis KB1JEY	"My Favorite Test Gear Comes from China"
Alan Wolke W2AEW	"Mr. Philip Smith and his Chart are Your Friend"
Paul Wade W1GHZ	"Cheap & Simple Transverters - New and Updates"
Phil Theis K3TUF	"Tower Mounted Microwave Gear"
Joe Horanzy AA3JH	"LASER Communicator Update"
Bob Fischer W2SJ	"Did Murphy Help You Prepare for the VHF Contest?"

Saturday Evening Banquet Speaker:

Paul Shuch N6TX, CQ Space: Building the Interstellar Beacon

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**

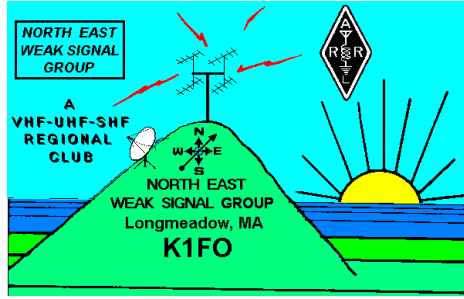
Calendar of Upcoming Events

Aug 18-19	ARRL 10 GHz & Up Contest Weekend #1
Sept 8-10	ARRL Sept. VHF 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
Sept 29-30	ARRL EME Weekend #1, 2.3 GHz & Up
Oct 12-13	NEAR-fest - Deerfield, NH
Oct 27-28	ARRL EME Weekend #2, 50-1296 MHz
Oct	Microwave Update (Tentative)
Nov 24-25	ARRL EME Weekend #3, 50-1296 MHz
Nov 17	NEWS Lunch and Board Meeting, Lulu's, Enfield, CT, 11:15am
Nov 17	NEWS General Meeting, Storrs Library, Longmeadow, MA, 1pm
Nov 30-Dec2	ARRL 160-Meter Contest

N.E.W.S. Group Supporters



QRPme PO Box 160 Limerick, Maine 04048 <http://www.qrpme.com/?p=contact>



MEMBERSHIP APPLICATION

Name: _____

Call sign: _____ Grid: _____

Street: _____

City: _____ State: _____ Zip: _____

Phone (home) _____ Optional (work) _____

Email _____

ARRL member: Y N

Electronic Newsletter Delivery: Y N

Operational Bands (circle)	50 MHz	144 MHz	222 MHz	432 MHz	903 MHz
	1.2 GHz	2.3 GHz	3.4 GHz	5.6 GHz	10 GHz
	24 GHz	47 GHz	76 GHz	Light	Other (list)

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 e-mail 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!