

# The Hertzian Herald



## Off The KUF:

Summer seems to be flying by at mach speed. It'll be mid-August as you're reading this article ... and we're already looking for back to school sales in the local newspaper ads during this first week in August. Someone at work had visited the upper peninsula last week, and said that there is already a touch of color in the trees. This passing of summer seems to be going far too quickly in my way of thinking :-/.

After the great HAMATHON of June, July calmed down a bit in terms of Amateur Radio activities. Following the fourth of July parade in Dundee ... unless you're hitting the hamfest circuit pretty hard.... there was not much going on. I have to admit that I ALMOST fell into a withdrawal based stupor, until I figured out that a few therapy sessions consisting of repair / adjustment of repeater related equipment helped to ease the withdrawal symptoms. NOW ... if I could just figure out what to do about the stupor symptoms I could almost be back to normal (be kind here).

Many of us are getting ready to support the upcoming Energy Run, a 5K run that takes place on the grounds of the community college to benefit Project Read (an Adult Literacy Program here in Monroe County). These types of events, while not "MCRCA activities", ... go a long way toward improving our operating skills, making us better prepared to provide communications during a time of disaster. I HIGHLY encourage each and every one of you to find a way to get involved in the public service communications aspect of this glorious hobby.

Those of you who were able to attend the July meeting were treated to a presentation on Near Vertical Incident Skywave (NVIS) antenna systems and why they work so well for regional area coverage on HF (particularly 80 & 40 meters). Thanks to Dale for presenting the powerpoint slideshow on NVIS, and for not getting carried away with my Pac-Man laser pointer (that could easily have happened, ya know).

If you were at the meeting you also heard "the rest of the story" about ice fishermen becoming stranded on Lake Erie, the perils faced by some of the would be rescuers, and the lessons learned from this tragic series of events.

The program for this upcoming MCRCA Meeting (August 20<sup>th</sup>) will be focused on DX. Hank K8DD and Stan AC8W will be joining us for a presentation about:

1. One of their DX trips  
Nicaragua or Suriname or both?
2. How to go on a DXpedition economically?
3. What it's like to meet WA8EFK at a hamfest?

Hank and Stan are very dynamic characters, so this is a presentation you DON'T wanna miss.

Allow me to once again remind you of the rules for attendance .....

- 1) all tomatoes MUST be checked at the door, and
- 3) all who are willing to have a good time are welcome.

I'll see you at the meeting, Mike - N8KUF President - MCRCA

## Club Officers

### PRESIDENT

Mike Karmol N8KUF  
mkarmol@verizon.net

### VICE PRESIDENT

Paul Trouten W8PI  
ptrouten@aol.com

### SECRETARY

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### DIRECTOR

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### DIRECTOR STATION TRUSTEE

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wb8fbg@chartermi.net

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## MCRCA Minutes:

July 16, 2009

Meeting called to order at 7:33 pm, by Mike N8KUF

Pledge of Allegiance

Introductions: one new member, no upgrades and 2 guests.

PROGRAM: Paul W8PI gave a presentation on Field Day with pictures from Mike K8MLH, and Dale W8EFK gave a program on NVIS Near Vertical Incidence Sky wave.

DOOR PRIZE DRAWING: Yvonne Hall K8MLH's XYL, Frank N8UAS, and Paul W8PI

50/50: Wes KC8SKP, donated his winnings to the Scholarship Fund.

MINUTES: Motion by Tim KD8KHX, supported by Olimpio WB8SEZ, to approve as written in the Herald. Approved.

TREASURER REPORT: Motion by Terry KC8RQI, supported by Rita WB8FBG, to approve the treasurer's report as passed out to the membership. Approved.

HAMFEST: A report was passed out to members. Thanks to everyone who helped out. This year went really smooth and we got a lot of help. A good job done by everyone, Thanks so much for supporting the club.

FIELD DAY: Paul W8PI had a report in Hertzian Herald and given at the meeting. 14-15 people came out and 6 people operated the radios.

DX REPORT: By Olimpio WB8SEZ. We are starting to see sun spots again, 12, 10 and 6 meters have been opening up again. DX Bali YC0IEM, East Temor 4W6FR, Crozet Islands FT5WO, and Glorioso Islands FT5GA.

FUTURE PROGRAMS: Mike N8KUF: DX, Foxhunting, Something on 6m, Remote Control.

HERTZIAN HERALD: Fred KA8EBI, Keep the articles coming, we need club member input to keep this newsletter interesting.

CLASSES: Rita WB8FBG, nothing at this time.

TESTING: Paul W8PI, Next session August 15<sup>th</sup>.

SCHOOL VISITATION: Eric Worstell KC8QAH, Schools out for summer.

ARPSC: Jerry WB7RUM, announced Skywarn and RACES cards are still in progress at this time. The Dundee parade went well. The Fermi Run is coming up August 15<sup>th</sup> at the Community College. Please check into the Monday night ARPSC net for more information.

RRRA: Dale W8EFK, announced the repeater has been having voting problems and Dale is working on it. He will be checking antennas Saturday. Radio has a hum problem.

OLD BUSINESS: Keith K8YKD says FD tent repair of the zipper are still in progress.

NEW BUSINESS: None

ANNOUNCEMENTS: None

ADJOURNED: 8:15 pm

ATTENDANCE: 24

Nick	AF8CS	Mike	K8MLH	Keith	K8YKD	Fred	KA8EBI
Clarence	KA8OAR	Neil	KA8PQH	Brenda	KB8KQC	Terry	KC8RQI
Wes	KC8SKP	Tim	KC8ZTI	Joseph	KD8AAK	Ed	KD8BBF
Tim	KD8KHX	Tom	KG8P	Mike	N8KUF	John	N8RWI
Frank	N8UAS	Paul	W8PI	Dale	W8EFK	Jerry	WB7RUM
Rita	WB8FBG	Olimpio	WB8SEZ	Yvonne	Hall	Leah	Butcher

## Committees

### Classes

Rita Baker WB8FBG

### Club Station

Rita Baker WB8FBG

### DX Net

Olimpio Varsogea WB8SEZ

### Field Day

Jeff Breitner KA8NCR

### Finance

Paul Trouten W8PI (chair)

Fred VanDaele KA8EBI

Dale Williams W8EFK

### HamFest

Pete Hendrick KD8DMJ

### Hertzian Herald

Fred VanDaele KA8EBI

### Historian

Nick Peth AF8CS

### Public Relations

Jeff Breitner KA8NCR

### Scholarship

Fred VanDaele KA8EBI

### School Liaison

Eric Worstell KC8QAH

### Programs

open

### Membership

open

### Planning

open

### Property Custodian

open

## NVIS Web sites:

<http://www.qsl.net/wb5ude/nvis/>

<http://home.centurytel.net/w9wis/NVIS.html>

<http://www.ve3fyn.ca/nvis/>

<http://www.hamuniverse.com/nvisbeam.html>

[http://www.tactical-link.com/field\\_deployed\\_nvis.htm](http://www.tactical-link.com/field_deployed_nvis.htm)

## ARPSC Activities:

The 20th annual Fermi II energy run was held on Saturday, 15 August at the Monroe County Community College. The run is sponsored by a number of agencies and benefits Monroe Project Read. We once again provided communication support for the event. The weather cooperated and the corn dogs were really good this year. Thanks to Mike-N8KUF, Mike-K8MLH, Dale-WA8EFK, Terry-KC8RQI, John-N8RWI, Olimpio-WB8SEZ, Bill-WB8JAI for your help. Got nice t-shirts for our collections as well.

Jerry (WB7RUM).  
Monroe County EC

## Congradulations:

Congradulations go out to New Parents Jennifer and Tony Lindner KB8IFH, also to Larry KB8AIZ and Diana KB8VIU new Gramps and Grammy. :-)

## Introducing Anthony August Lindner Jr. (A.J. for short)



**9 pounds 5 ounces, 22 inches long  
born on 8-6-09 at 2:52 pm at Mercy  
Memorial Hospital in Monroe**

(Editor's note: He's a keeper!)

**Mom and baby are healthy and  
recovering, everything's great!**

**The Lord has truly blessed us.**





## AMSATUK FUNcube Press Notice By Trevor M5AKA

AMSATUK has announced a new amateur satellite project FUNcube. The project has received major initial funding from the Radio Communications Foundation (RCF) and is expected to be developed in collaboration with ISIS Innovative Solutions in Space BV. FUNcube is an educational single cubesat project with the goal of enthusing and educating young people about radio, space, physics and electronics. It will support the educational Science, Technology, Engineering, Maths (STEM) initiatives and provide an additional resource for the GB4FUN Mobile Communications Centre. The target audience consists of primary and secondary school pupils and FUNcube will feature a 145 MHz telemetry beacon that will provide a strong signal for the pupils to receive. It is planned to develop a simple receiver board that can be connected to the USB port of a laptop to display telemetry in an interesting way. The satellite will contain a materials science experiment, from which the school students can receive telemetry data which they can compare to the results they obtained from similar reference experiments in the classroom.

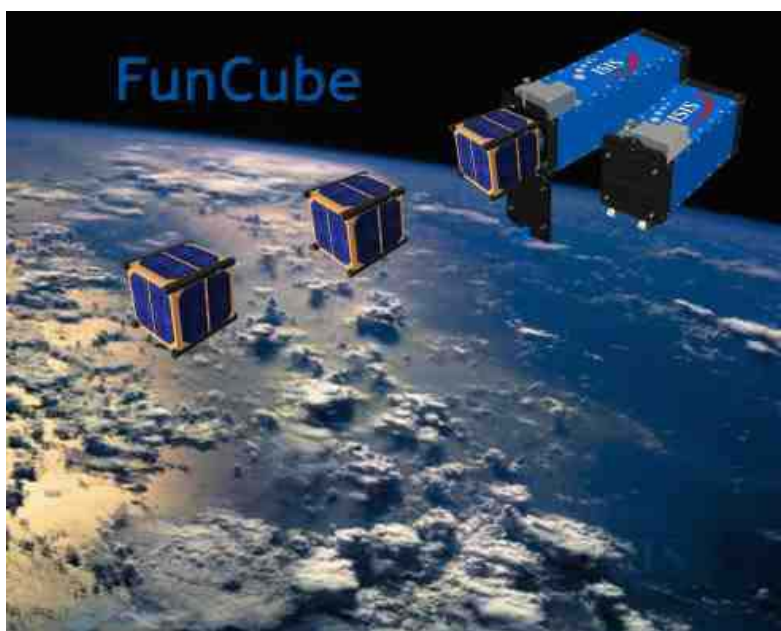
FUNcube is the first cubesat designed to benefit this group and is expected to be the first UK cubesat to reach space.

It is anticipated FUNcube will be launched into a Sun Synchronous Low Earth Orbit about 600700km above the earth using one of the many launch opportunities that exist for Cubesat missions. In such an orbit the satellite passes over Europe approximately 3 times in the morning, and 3 in the evening, every day, perhaps allowing the morning passes to be used for educational purposes and the evening passes for Amateur Radio communications.

FUNcube will carry a UHF to VHF linear transponder that will have up to 1 watt and which can be used by Radio Amateurs worldwide for SSB and CW communications. Measuring just 10 \* 10 \* 10 cm, and with a mass of less than 1kg, it will be the smallest ever satellite to carry a linear transponder and the choice of frequencies will enable Radio Amateurs to use their existing VO52 or DO64 Station.

A key feature of the satellite is the absence of an OnBoard Computer. For reliability and maximum power efficiency, the design has been kept as straightforward as possible with satellite control being achieved using simple commands.

(cont'd next page)



AMSATUK has more than 350 individual members and is one of more than 20 such groups worldwide.

AMSATUK teams have provided hardware for more than 10 satellites over the past 35+ years including SSETI Express in 2005. They are presently involved with the development of hardware and software for a Number of satellite projects including the European Student Earth Orbiter (ESEO), P3E, SUITSAT2, the Columbus module on the ISS and also the GENSO Ground station network.



The Radio Communications Foundation is a Registered Charity (Number 1100694) set up in 2003 to fund efforts to bring the wonders of radio into the classrooms, universities and any other public place where hands on demonstration can influence understanding. The RCF funding for FUNcube is made possible through the generous bequest from a "silent key" who wanted the hobby that he loved brought to the attention of others. Any one wanting to make a bequest in their Will so that their name can live on in the hobby, or anyone simply wanting to make a donation, should click on the link below.

AMSATUK:

AMSATUK:  
<http://www.uk.amsat.org/>

Radio Communications Foundation: <http://www.commsfoundation.org/>

GB4FUN: <http://www.gb4fun.org.uk/>

FUNcube contact: Graham Shirville G3VZV Tel:  
+44 (0)7713 665725



## CHIRP D-STAR programming software

Radio Amateurs have developed a extensive range of open-source and freeware radio communications software.

One example of this is **CHIRP**, a Windows/Linux/MacOSX program that can program ICOM D-STAR radios.

CHIRP is a cross-platform, cross-radio programming tool. It works on Windows and Linux (and soon, MacOSX). It can program all of the ICOM D-STAR (or D-STAR-capable) radios and exchange data between them.

As from version 0.1.9 CHIRP also supports limited operation with the Icom ID-RP\* D-STAR DV and DD repeaters.

CHIRP

<http://chirp.danplanet.com/wiki/>

CHIRP Beginners Guide

<http://chirp.danplanet.com/wiki/BeginnersGuide>

## New satellite location maps available

A map showing the current satellite location for most of the amateur satellites are now available on the **AMSAT** site.

From the [AMSAT front page](#), use the left hand side navigation, go to the 'Satellite Information' navigation box, then select 'Satellite Status'.

You may also go directly there using this URL:

<http://www.amsat.org/amsat-new/satellites/status.php>

Next click on an underlined satellite name in the left hand column. This will display a satellite summary, scroll to the bottom of the page and there will be a map showing the current location of that satellite and the illuminated and dark portions of the earth. This feature can be used for a quick check of the satellite's location or to verify that your tracking program was setup correctly.

Thanks to **Rick, W2GPS** and **Chip, N2YO** for providing this useful feature.

**Gould, WA4SXM**

## 60 Meters: Five Specific Channels

The FCC has granted hams secondary access on USB only to five discrete 2.8-kHz-wide channels. Amateurs can not cause inference to and must accept interference from the Primary Government users. The NTIA says that hams planning to operate on 60 meters "must assure that their signal is transmitted on the channel center frequency." This means that amateurs should set their carrier frequency 1.5 kHz **lower** than the channel center frequency.

**General, Advanced and Amateur Extra classes:**

Channel Center	Amateur Tuning Frequency
5332 kHz	5330.5 kHz
5348 kHz	5346.5 kHz
5368 kHz	5366.5 kHz
5373 kHz	5371.5 kHz
5405 kHz (common US/UK)	5403.5 kHz

Amateurs may use USB *\*only\** with a maximum effective radiated power (ERP) of **50 W**. Radiated power must not exceed the equivalent of 50 W PEP transmitter output power into an antenna with a gain of 0 dBd. For details, see the [60 Meter FAQ](#) page.

DX Net, Tues. 8:30pm  
Olimpio Varsogea  
WB8SEZ



The editors of 425 DX News Mauro and Valeria Pregliasco (I1JQJ and IK1ADH) are the first Italian inductees into the CQ DX Hall of Fame (May 07)

PERIOD	CALL	REF
till 15/08	JD1BLY and JD1BNF: Ogasawara (AS-031)	952
till 15/08	KL7/N3SY: Denali National Park	953
till 15/08	OH3OJ/p: Hailuoto Island (EU-184)	951
till 15/08	TK8B: Corsica (EU-014)	952
till 16/08	AT8LHC: Kadalur Point Lighthouse	953
till 16/08	CW1R: Punta del Este lighthouse	953
till 16/08	DL/HB9LH: Schleimunde lighthouse	953
till 16/08	LA2NK and LA/DL5ME: Mageroya (EU-044)	953
till 16/08	MM3KBU/p: EU-008 and EU-010	950
till 16/08	OH/G4FSU: Emsalo Island (EU-097)	949
till 16/08	OY/SP6IXF and OY/SP7VC: Faroe Islands (EU-018)	947
till 16/08	PE25KP: special callsign	945
till 16/08	SN2NP: Gdansk Nowy Port lighthouse	954
till 16/08	VC1W: Welsh Island (NA-154)	950
till 16/08	ZZ6Z: Itaparica Island (SA-023)	953
till 17/08	BA7IO/4: Heng Sha Island (AS-136)	953
till 17/08	LA/PE1BTV, LA/PH0V, LA/PA3FMC: Utvaer Island	
till 17/08	LR5D: Martin Garcia Island (SA-055) and lighthouse	
till 18/08	9M8DX: Sarawak (OC-088), East Malaysia	953
till 18/08	EM360B: special callsign	953
till 18/08	LZ02WFF: Biosphere Reserve Kamchia	953
till 19/08	LY1CM, LY2GV, LY3X: Lithuanian lighthouses	952
till 21/08	OZ7VEA: Romo Island (EU-125)	951
till 22/08	T6AD: Afghanistan	952
till 23/08	AM5FUV, AN5FUV, AO5FUV: special event stations	952
till 23/08	E65FUV and EH5FUV: special event stations	952
till 23/08	W4L: Arecibo Lighthouse, Puerto Rico	953
till 25/08	5B/G4MKP: Cyprus (AS-004)	953
till 25/08	SV1CEI/8: Kea Island (EU-067)	947
till 28/08	PD55EA: special event station	953
till 29/08	4J/F2VX and 4J0FR: Azerbaijan	953
till 30/08	PA09WSF: special event callsign	954
till 31/08	GB111HP: special callsign (England)	953
till 31/08	LY1000: special prefix	924
till 31/08	VR2/F4BKV: Hong Kong Island (AS-006)	908
till 03/09	3B7FQ: St. Brandon Island (AF-015)	954
till September	LZ8WHST and LZ17ARDF: special event stations	
till 02/10	CE73RG: special callsign	950
till 03/10	4W6AL: East Timor (OC-148) * by CT16PQ	952
till 10/10	IY1NGM: special callsign	952
till 10/10	SV0XAN/5: Dodecanese (EU-001)	949
till 31/10	4W6FR: East Timor (OC-148)	948
till 30/11	2A, GA, MA: Scotland (special prefix)	954
till 30/11	FT5WO: Crozet Islands (AF-008)	916
till November	OD5/W5YFN: Lebanon	915
till 31/12	9A09P: special event station	932
till 31/12	9A48IFATCA: special event station	926
till 31/12	9A800VZ: special event callsign	933
till 31/12	6B250RB: special event call (Scotland)	925
till 31/12	GB40WAB: special callsign	922
till 31/12	HE8 and HB8: special prefixes (Switzerland)	921
till 31/12	IA3GM: special callsign	927
till 31/12	II2RAI: special callsign	924
till 31/12	IY7GM: special callsign	953
till 31/12	IY7NGM: special callsign	944
till 31/12	LZ50BNT: special event station	940
till 31/12	VR2009EAG: special event callsign	947
till 31/12	YL90AIR: special callsign	948
till 31/12	Z30MCWG: special callsign	928
15/08-16/08	9M4LHB, 9M4LHC, 9M4LHE: West Malaysia (lighthouses)	954
15/08-16/08	9M4LHJ, 9M4LHN: West Malaysia (lighthouses)	954
15/08-16/08	9M4LHP: Penang Isl (AS-015) & lgt, West Malaysia	
15/08-16/08	9M4LHS: Layang Isl (OC-133) & lgt, East Malaysia	
15/08-16/08	AO8FLH: La Entallada lighthouse	953
15/08-16/08	AYODX: Baliza Espigon Este	954
15/08-16/08	CE2P: Punta Panul lighthouse	953
15/08-16/08	CR6LH: Cabo Espichel lighthouse	953
15/08-16/08	CW4T: Cape Polonio lighthouse	954
15/08-16/08	DF0IT: Helgoland (EU-127)	954
15/08-22/08	F4UKP/p: Ile de Re (EU-032)	953
15/08-16/08	GB4SML: St Mary's Island (EU-011) and lighthouse	
15/08-16/08	IU1L: La Lanterna lighthouse	951
15/08-22/08	LA/DL7BY: Hinnoya (EU-033)	954
15/08-16/08	OR9W: lightship Westhinder 1	953
15/08-16/08	PI4VPO: Stenen Baak lighthouse	953
15/08-16/08	PT7ZT/p: Pecem Lighthouse	953
15/08-16/08	TC99K: Yelkenkaya Lighthouse	953
15/08-16/08	TC99Y: Bozburun Lighthouse	953
15/08-20/08	VE3SST: Salisbury Island (CIsA ON-284)	953
15/08-16/08	W2T: Tucker's Island lighthouse	951
16/08-19/08	A25/W2LPL: Botswana	954
16/08	E65LB: special callsign	951
16/08-21/08	IE9X: Ustica Island (EU-051)	953
16/08-31/08	IS0/IZ3KVD: Sardinia (EU-024)	954
16/08-30/08	SV2MAC/8/p: Samothraki Island (EU-174)	953
16/08-17/08	CT17A: special event station (Turkey)	954
17/08-23/08	C21TI: Nauru (OC-031)	953
17/08-21/08	DL/OE3CHC and DL/OE3MDC: Spiekerroog Island	
18/08-25/08	FJ/W2VQ and FJ/WQ2N: St. Barthelemy (NA-146)	
19/08	OH9AA/p: Syvaletto (EU-126)	953
19/08-22/08	WD4AC: Core Banks (NA-067)	954
20/08-23/08	3Z8WFF: Magurski National Park	953
21/08-31/08	CT8/DL7JAN and CT8/DL2IX: Faial (EU-175), Azores	954
21/08-31/10	SN120OSP: special event station	953
21/08-05/10	SV9/WB2GAI/p: Crete (EU-015)	945
22/08-23/08	GB1SSB: special event station (England)	953
22/08-04/09	OZ0FR/p: Samsø Island (EU-172)	954
23/08	E65LB: special callsign	951
23/08	IQQQP: Quirra Island (EU-165)	949
24/08-29/08	V73J (V7XX) and V73NF: Majuro (OC-029)	951
25/08-08/09	J48YA: Thassos Island (EU-174)	948
29/08	E65LB: special callsign	951
31/08-03/09	VY00: Ottawa Islands (NA-230)	954
August	CP1XRM: Bolivia	951
August	N6PYN/KL7: Seal Islands (NA-239)	951
August-September	FT5GA: Glorioso Islands (AF-011)	948
03/09-06/09	LA1SYL: special callsign	953
05/09-19/09	TM9CDX: special event station	952
06/09-07/09	3D2G: Fiji Islands (OC-016)	947
06/09-07/09	E65LB: special callsign	951
07/09-11/09	JW1SYL: Longyearbyen (EU-026), Svalbard	953
08/09-14/09	T30G: Western Kiribati (OC-017)	948
10/09-22/09	CT8/DK5FT: Sao Miguel (EU-003), Azores	953
11/09-14/09	F5KKD/p: Belle Ile (EU-048)	947
15/09-16/09	3D2G: Fiji Islands (OC-016)	947
16/09-03/10	TK/DF6ZY: Corsica (EU-014)	953
17/09-23/09	T2G: Tuvalu (OC-015)	948
18/09-27/09	ON65POL: special callsign	949
22/09-21/10	TO7RJ: Mayotte (AF-027)	949
23/09-30/09	3A/HG3IPA: Monaco	947

AMSATUK

## Amateur Radio Examinations Monroe, MI

Monroe County Radio Communications Association Amateur Radio examinations are held the 3<sup>rd</sup> Saturday of every even numbered month at:

**American Red Cross Chapter Bldg.**  
1645 North Dixie Highway  
Monroe, MI 48161

Walk-ins are always welcome.

### 2009 Schedule:

February 21	April 18
June 20	August 15
October 17	December 19

### TESTING BEGINS PROMPTLY AT 9:00 AM

Applicants are expected to have all forms filled out and be ready to take tests at that time. Coffee and doughnuts are available at 8:30 AM. For more information or to make reservations, call Paul Trouten - W8PI at 734-854-2224

### Join us at the next meeting

August 20<sup>th</sup> at 7:30 pm  
American Red Cross Chapter Bldg.  
1645 North Dixie Highway  
Monroe, MI 48162

### Local Nets

**ARPSC Net** - Every Monday evening on '72-Monroe (146.72 Mhz) starting at 9:00pm.

**DX Net** - Every Tuesday evening on '72-Monroe starting at 8:30pm.