



# The Airwaves

## Journal

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### Upcoming Meetings & Events

January 1<sup>st</sup> - Straight Key Night from 0000 UTC through 2359 UTC

January 3<sup>rd</sup> - IARC Club meeting (details inside - NEW LOCATION)  
Special Guest Speakers Jason McCormick, N8EI & John Wagner, N8CD - talking about network-linked repeaters

January 4<sup>th</sup> - Kids Day at 1800 UTC and concludes at 2359 UTC

January 11<sup>th</sup> - Ohio ARES VHF Simplex Contest

### What's Inside...

Page 2 - National News  
Page 3 - Club Minutes  
Page 4 - IARC Board  
Page 5 - District 6 Meeting  
Page 5 - IARC Breakfast  
Page 6 - For Sales  
Page 7 - Mansfield VE Testing  
Page 8 - How to Join IARC

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### Wednesday Night Nets

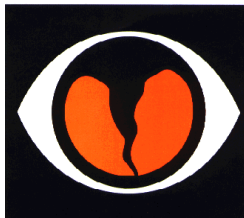
Check-in on the nets on our 146.940 repeater at 8pm local as well as our statewide net on our DMR repeater on 444.700 - TG 3139

Who knows, you might just hookup with an old friend or two.

### This Newsletter is for everyone!

Please feel free to pass along to anyone that might have an interest!!

Have them send me their email and they'll get it direct!



**SKYWARN**

*Ohio*

## National News

### ***OPS-SAT — First-of-its-Kind Space Laboratory — Launched on December 18***

The European Space Agency (ESA) reports that the [OPS-SAT](#) “flying laboratory” satellite lifted off from Europe’s Spaceport in Kourou, French Guiana, aboard a *Soyuz-Fregat* rocket on December 18. According to ESA, small, low-cost, test satellite was specifically designed for operational experimentation in space and includes the most powerful flight computer on board any current ESA spacecraft.



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“Consumer electronics have gone through a revolution over the last 30 years, with computers becoming ever faster, smaller, and better,” ESA said. “But when it comes to million- or even billion-euro satellites, their on board hardware and software have not seen this revolution due to the risk of testing new technology in flight. As spacecraft managers dare to fly only tried-and-tested hard and software in the harsh conditions of space, innovation on the operational side of satellites is a very slow-moving process.”

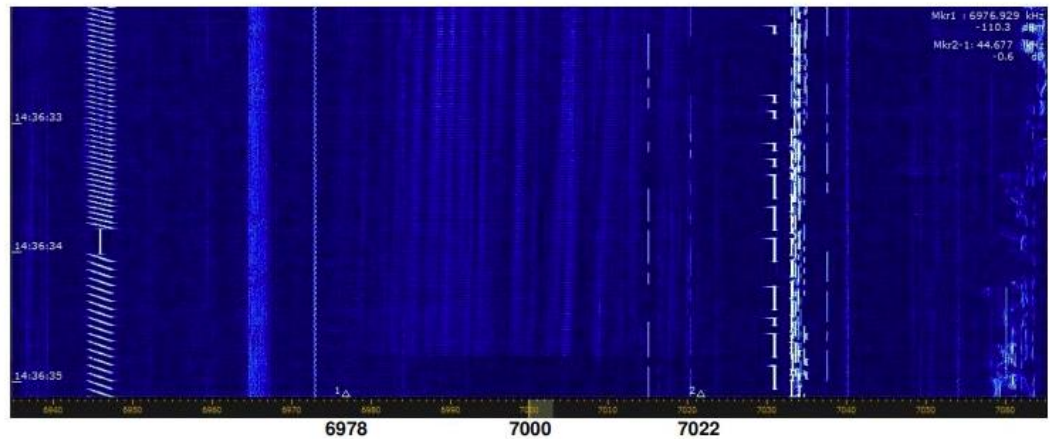
ESA said this is where OPS-SAT steps in, lowering the barriers to spacecraft operation and providing an opportunity to safely test new mission control techniques.

[More information](#) is on the OPS-SAT website.

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### ***Over-the-Horizon Radars Causing Widespread Interference on 40 Meters***

Over-the-horizon (OTH) radars continue to plague various amateur radio bands. Those operating on exclusive ham radio allocations have been complaining for years, but military systems have a blanket waiver to use amateur radio frequencies. The latest edition of the International Amateur Radio Union



A waveform of the Iranian over-the-horizon radar on 40 meters. [Wolf Hadel, DK2OM]

Monitoring System ([IARUMS](#)) [newsletter](#) reports that a radar in northern Iran — likely military — has been operating 40 meters (6978 – 7022 kHz). Several Russian and Chinese OTH radars have become mainstays in the ham bands. While these sort of signals are operating on exclusive amateur radio allocations, the International Telecommunication Union (ITU) [Convention](#) essentially gives military stations free reign in the spectrum.

Article 48 says, “Member States retain their entire freedom with regard to military radio installations.” Member states are countries that have agreed to follow the Convention, and that is not a given.

The Convention goes on to say, however, “Nevertheless, these installations must, so far as possible, observe statutory provisions relative to giving assistance in case of distress *and to the measures to be taken to prevent harmful interference* [emphasis added], and the provisions of the Administrative Regulations concerning the types of emission and the frequencies to be used, according to the nature of the service performed by such installations.”

According to IARUMS, the Iranian OTH radar was centered on 7000 kHz using amplitude modulation on pulse (AMOP) at 81 sweeps per second. [Recordings of military transmissions](#) are available on the SIGIDWIKI signal identification site.

The South African Amateur Radio League (SARL) News reported this week that radio amateurs in Europe and South America have reported major interference from Russian OTH radar stations on several parts of 40 meters — with 12 kHz-wide signals. The radar transmissions have been heard on 7064, 7109, 7170, and 7190 kHz.

Several European IARU member-societies have already sent complaints to their respective telecommunications regulators.

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### **IARC Minutes for the Meeting of December 6, 2019**

The meeting was called to order by the President, Duane, K8MDA, at 1931

#### **Reading and Correction of Previous Meeting’s Minutes:**

#### **Financial & Membership Report:**

A motion was presented to dispense with the reading of the Minutes and Financial Reports, and approved.

Moved/seconded by: W8DLB / KC8HDP

The club now has 33 paid members, 15 present

#### **Health and Welfare Report:**

Dewey, formerly of the old Mansfield Weather office recently passed away. If you hear of people who are ill or hospitalized please advise Duane

#### **Education:**

12 Week class starting in January. Firm dates pending.

#### **Tech Committee:**

Dave shared about looping problem with another DMR site.

There has been a hitch with the new repeater antenna coming in. We do have the mounting bracket.

#### **Old Business:**

HamFest: Duane and Harry went down to Universal and decided to wait on getting the major door prize. The other door prizes will be ordered.

**New Business:**

None

**Announcements:**

SkyWarn recognition this weekend.

HamVention prices went up by \$4.00

Danny is putting a DMR System Fusion repeater up in Shiloh.

160M contest coming up

Winter Field Day coming up in February

50/50 Drawing: John won fabulous, untold riches.

The meeting was adjourned at 1947 for the HamFest Peel 'n' Stick session.

**IARC Board****President**Duane Meadows, [K8MDA](#)**Vice President**Danny Bailey, [W8DLB](#)**Secretary**Kyle Crawford, [KD8GEI](#)**Treasurer**Harry Maines, [N8XMI](#)**Board for 1 year**John Ness, [K8NJ](#)**Board for 2 year**David Weigold, [N8DPW](#)**Board for 3 year**Karen Danielson, [KD8MGB](#)**Corporate Agent**Harry Frietchen, [K8HF](#)**Repeater Trustees**

W8WE 146.940 (-) Analog

**W8WE License Trustee**Harry Frietchen, [K8HF](#)

K8HF/R 147.360 (+) Analog

Harry Frietchen, [K8HF](#)

W8WE 444.700 (+) DMR

**W8WE License Trustee**Harry Frietchen, [K8HF](#)

### District 6 Meeting / Get Together

Every month Danny, W8DLB our District Emergency Coordinator has a meeting / get together at Denny's in Ontario to go over the latest news, concerns and techniques in ARES. The meeting starts at **6pm** in the back meeting room. The next get together is scheduled for **Saturday January 18<sup>th</sup>**. How's about joining us for some great food and camaraderie. Who knows, you just might pick-up some interesting news about what's happening around the state with ARES!

### IARC Breakfast

Hey Gang,

Did you know that IARC has a Breakfast gathering every 3rd Thursday of the month? It's true and very well attended. If you have the time, we'd love to see ya' at the next breakfast. The next Breakfast will be – **January 16<sup>th</sup> @ 9am** – **at the Bob Evans on Hanley Road.**



We sure hope to see ya' then!!



### Wednesday Night Nets

Come join us each Wednesday evening at 8p for the Richland County ARES Net on the Mansfield 146.94 Repeater, W8WE/R.

Also, come join us on the DMR Net each week too. That Net is on the Ohio Talkgroup 3139 at 8:30p Wednesday's

### ARES Connect

#### **ARES Connect**

Instructions to Register

Enter ARES Connect

Have you registered in the new ARES Connect yet? You'll want to for sure. It's the new reporting system for everyone in the country. Yes, it has already replaced our current system, so you'll want to make sure that you get registered now and start using the system so that you'll be used to what all the features.

It's really easy to get registered. All you have to do is click on this [link](#) to get you started. Answer a few questions and it's all done, you'll be registered. Then you will want to get yourself registered for all the various events that are there. It's really easy to do and that's it, your hours for participation will be automatically recorded! How much easier than that can it be.



**For Sales**

Got something that you want to sell? Send you list of items to me at [n8sv@n8sv.com](mailto:n8sv@n8sv.com) and I'll get it posted in the next edition of Airwaves..

Oh, by the way, you can also find these items listed on the Swap & Shop portion of the website. Just go to: <http://iarc.club/s-s.html> for the latest listings

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**For Sale:**

**J-pole antenna 20.00**

**Kenwood TS130SE HF rig with Electro Voice 638 microphone  
\$300**

**Microphone and boom kit with wiring for Kenwood HF rig \$100**

**ADI AR-147 2 meter mobile \$50**

**JPS Communications NIR-10 DPS unit \$70**

**They can contact me Tom, N8TWM by email  
at [Tmill604@aol.com](mailto:Tmill604@aol.com) for more info.**





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**FOR SALE**

**ICOM IC-746 PRO.... 100w 160 thru 2m + PS125 power supply. Rig is 100%, not a lot of use. Seriously interested folks can contact me, W8NW at: [DHomerick@neo.rr.com](mailto:DHomerick@neo.rr.com)**



**Next IARC V.E. Test Session**

Upcoming Test Sessions for 2020. All test sessions will start at 1pm unless otherwise noted and will be at:

**The January 18, 2020, VE Testing has been Cancelled.**

For more details or other V.E. Test Sessions contact: **Rob Ruth** 419-566-1530 [Kd8azq@yahoo.com](mailto:Kd8azq@yahoo.com).



Interested in Joining IARC

Dues are NOW Past Due



They are still just \$12 It's just a lot of fun and great ham talk!  
There's always something of interest at the meetings.

Please send your dues to:  
Harry Mains, N8XMI  
593 Woodcrest Drive  
Mansfield, OH 44905

We meet every 1st Friday of the month (except July & August) at 7:30, at:

***NEW Location → Richland County Fairgrounds  
Administration Building  
750 N Home Rd  
Mansfield, OH.***

For your convenience, you can also pay by credit card or PayPal.. [http://iarc.club/mem\\_page.html](http://iarc.club/mem_page.html)