

# THE PLATTSMOUTH AMATEUR RADIO CLUB

# Communicator

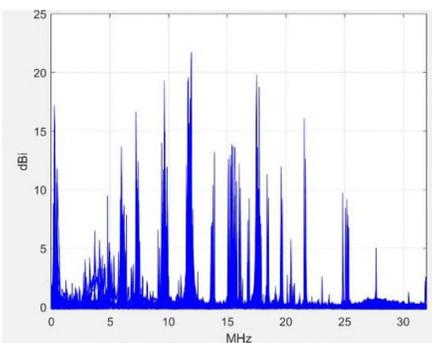
# September 2019



## Chinese Satellite Profiles Earth's RF Spectrum as Seen from Lunar Orbit

(ARRL 08/15/2019) The Chinese DSLWP-B (LO-94) satellite that had been in lunar orbit provided a profile of Earth's HF spectrum as seen from the moon. The microsatellite subsequently was crashed into the moon's surface after having completed its mission. DSLWP stands for "Discovering the Sky at Longest Wavelengths Pathfinder." Among other things, DSLWP-B was designed to test low-frequency radio astronomy and space-based interferometry, and it carried Amateur Radio and educational payloads.

The HF spectrum mission included mapping "RF interference" from Earth in the 1 – 30 MHz range by studying its occlusion by the moon during lunar orbit. According to Chinese media accounts, this was done to "verify the technology of ultra-long wave astronomical observation and solar radiation research." The onboard detector sensed the spectrum of RF radiation at different positions of the lunar orbit.



The Harbin Institute of Technology (BY2HIT) developed and built the DSLWP spacecraft and oversaw the mission. The microsatellite also carried optical cameras from Saudi

Arabia.

In July, a contact between radio amateurs in Germany and China took place on July 1 via LO-94. The two-way exchange was between Reinhard Kuehn, DK5LA, in Sörup, Germany, and Harbin Institute of Technology club station BY2HIT (operated by Wei Mingchuan, BG2BHC), in Harbin, China, via the onboard GMSK-to-JT4G repeater — the first such contact ever made.

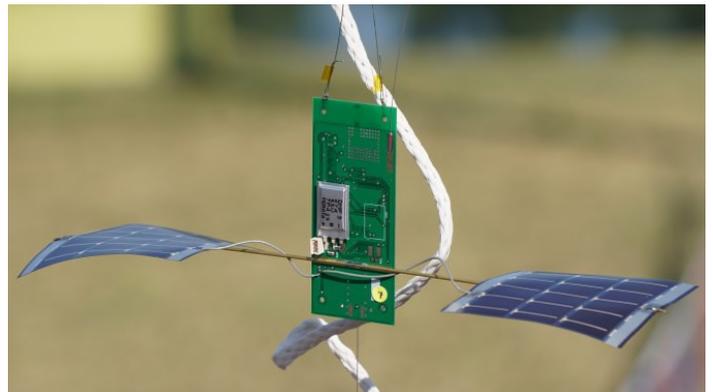
*Photo 1 is a view of earth taken from DSLWP-B in lunar orbit  
Photo 2 is the Earth's interference spectrum as published in the Chinese media.*

<http://www.arrl.org/news/chinese-satellite-profiles-earth-s-rf-spectrum-as-seen-from-lunar-orbit>

## World Scout Jamboree Ham Radio Balloon Crosses Atlantic

(ARRL 08/08/2019) An APRS Amateur Radio balloon, call sign NA1WJ-5, launched from the recent World Scout Jamboree in West Virginia, has floated across the Atlantic Ocean.

The Scouting Magazine blog reports: "You can reach practically any corner of the globe via Amateur Radio.



That's the message K2BSA wanted to show Scouts at the World Scout Jamboree. Those in the Amateur Radio association launched four Mylar balloons from the Summit Bechtel Reserve in West Virginia, in hopes that one would catch the jet stream and end up on the other side of the world. One did."

Each balloon, approximately 3 feet in diameter, was

*(Continued on Page 3)*

**2019 PAID MEMBERSHIP**

- AGØL .....Steve Loyd [E]
- AIØN..... Chuck Engberg\* [E]
- KØEGG.....John 'Tim' Eggertsen [G]
- K3CRF ..... Dave Smith [E]
- K5LBS ..... Jerry Gault [E]
- KA0IJY ..... Keith Keene [E]
- KBØFSI ..... Pat McCollum [T]
- KBØLF ..... Fred Eriksen [E]
- KBØOGO ..... Roger Behrns\* [E]
- KBØZZT ..... George Bellairs [T]
- KCØDTK ..... Joan Bellairs [T]
- KCØHYD ..... John Titsworth [G]
- KCØHYE ..... Shirley Titsworth [T]
- KDØNMD ..... Dudley Allen [G]
- KEØBXB ..... Kim Allen [T]
- KEØXQ ..... Bill McCollum [E]
- KGØKR ..... Beth Engberg\* [E]
- KIØPY ..... Kevin Faris [E]
- NØLZH ..... John Harrington [T]
- WØDBW ..... Derek Winterstien [G]
- WØZY ..... Dave McLaughlin [E]
- WØZYD ..... Debbie McLaughlin [G]
- W3DCQ ..... Bill Pulsifer [G]

*\*Charter Members #New Ham*

Note: Thanks to all who have paid their dues and many who have given additional donations. All donations are greatly appreciated. Please let me know of any corrections.

**Meetings are 8am the last Saturday of most months at Mom's Café in Plattsmouth.**

**Tuesday night get-togethers at Plattsmouth Burger King at 7 PM**



**P.A.R.C. Officers**

**President**

**KBØOGO .....Roger Behrns**  
**rb55930@windstream.net**

**Vice President**

**KCØHYD .....John Titsworth**

**Secretary**

**WØDBW .....Derek Winterstien**

**Treasurer**

**KIØPY ..... Kevin Faris**

**Newsletter Editor**

**KBØOGO .....Roger Behrns**  
**rb55930@windstream.net**  
**513 Vine St.**  
**Louisville, NE 68037**  
**(402) 234-6775**

**Repeaters:**

443.45<sup>+</sup> is located in downtown Omaha  
 443.225<sup>+</sup> is located in Murray.  
 147.48 Simplex is also in Murray.

**Web Site**

**[www.kb0smx.com](http://www.kb0smx.com)**

Maintained by Derek (WØDBW)

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The July 27, 2019 meeting was held at Mom's Café. The meeting was called to order at 8:13 am by President Roger Behrns

Those in attendance were Roger (KBØOGO), Kevin (KIØPY), Keith (KA0IJY), Gary(WDØCFC), Derek (WØDBW), John(WR5I) and Tim (KØEGG).

The Minutes of the May meeting were approved on a motion by Kevin and second by Derek. There was no formal June meeting.

The treasurer reported only an expense of \$50 for a donation to Murray which leaves \$305 in the repeater fund and \$695.35 in the general fund for a balance of \$1000.35. The report was approved on a motion by Gary and second by Derek.

A donation of \$50 to the Village of Murray in appreciation for the use of the park was approved on a motion by Keith and second by Kevin.

It was noted that the Nebraska QSO party is back on and will be held September 7. Details are on the QCWA website at [www.qcwa.org/chapter025.htm](http://www.qcwa.org/chapter025.htm).

The meeting adjourned on a motion by Gary and second by Tim at 8:18.



**Meeting Calendar**

8am, Sat August 31, 2019  
 8am, Sat Sept. 28, 2019  
 8am, Sat Oct. 26, 2019  
 8am, Sat Nov. 30, 2019  
 at Mom's Café

<b>PLATTSMOUTH ARC MEMBERSHIP REGISTRATION FORM</b>					
Name		Call Sign		Class	
Address		City		State	Zip
E-Mail			Phone #		
Spouse Name			Call Sign		Class
Membership Type <input type="checkbox"/> Primary(\$15) <input type="checkbox"/> Spouse (\$5) <input type="checkbox"/> Student (\$5) <input type="checkbox"/> New Ham	<ul style="list-style-type: none"> <li>● Additional donations are gratefully accepted.</li> <li>● New Hams are free during the year they receive their first license.</li> <li>● Please give this form and dues to the club treasurer or any club officer.</li> </ul>		Donation for: <input type="checkbox"/> Repeater fund <input type="checkbox"/> Insurance <input type="checkbox"/> Other _____ <input type="checkbox"/> General	Amount:  <input type="checkbox"/> I prefer my donation to be anonymous.	
Any additional e-mail or cell phone #s?					

equipped with GPS and a ham radio transmitter and solar panels. The combination of devices could relay weather, movement, and location information. Each helium-filled balloon was capable of attaining an altitude of between 28,000 and 32,000 feet — nearly as high as most commercial planes fly.

<http://www.arrl.org/news/world-scout-jamboree-ham-radio-balloon-crosses-atlantic>

<https://blog.scoutingmagazine.org/2019/07/31/balloon-launched-from-world-scout-jamboree-floats-across-the-atlantic-ocean/>

## World Wide Digi DX Contest Debuts on August 31

(ARRL 08/23/2019) The inaugural World Wide Digi DX Contest is set for August 31 – September 2, sponsored by the World Wide Radio Operators Foundation (WWROF), in collaboration with the Slovenia Contest Club (SCC). Sponsors hope the WW Digi will become an annual event. The new contest will embrace the use of both FT4 and FT8 protocols of the WSTJ-X version 2.1.0 software suite on 160, 80, 40, 20, 15, and 10 meters.

Participants earn points based on the distance between grid square centers of the two stations in a given contact. Each new two-character grid field contacted on each band will be a multiplier. The final score will be the product of total contact points and grid field contacts. Single-operator and multioperator entries are welcome. Plaques will be awarded to top scorers. Additional resources: “Using DigiRite with WriteLog in the WW Digi Contest” and “Operating WW Digi with N1MM+.”

<https://ww-digi.com/>

<https://physics.princeton.edu/pulsar/k1jt/wsjsx.html>

<http://www.arrl.org/news/reminder-world-wide-digi-dx-contest-debuts-on-august-31>

## Ham Radio Magazine Cofounder, Publisher Skip Tenney, W1NLB, SK

(ARRL 08/08/2019) Ham Radio Magazine cofounder and publisher Skip Tenney, W1NLB, of Frankestown, New Hampshire, died on August 4 after a period of declining health. He was 89. In 1968, Tenney and Jim Fisk, W1DTY (SK), joined forces to publish Ham Radio Magazine, which was published for 23 years.

Tenney launched the spin-off Ham Radio Report, edited by Joe Schroeder, W9JUV (SK), a weekly Amateur Radio newsletter, and in 1978, Ham Radio Publishing Group started Ham Radio HORIZONS, aimed at a more general ham radio readership.

Ham Radio Publishing Group was sold to CQ Communications in 1990, and in his retirement, Tenney was a farmer in Vermont and New Hampshire. — Thanks to Craig Clarke, K1QX

<http://www.arrl.org/news/ham-radio-magazine-cofounder-publisher-skip-tenney-w1nlb-sk>

## Hams in Belgium Push Back After False Accusations

(ARnewsline 8/23/19) Amateur radio operators in Belgium have had their reputations cleared after a report by the Flemish broadcaster VRT blamed them for hacking into the system that delivers traffic information displayed on motorists' dashboards. An August 13th report said the disruption was the work of people with equipment that can pick up an FM frequency, connect to the local transmission tower and forward inaccurate information to those on the road. The original report added that "The burglars are most likely radio amateurs," noting that hams possess the radio equipment necessary to do this.

Belgium's national amateur radio society, the Royal Union of the Belgian Radio amateurs - known as the UBA -- lashed out at the broadcaster. The UBA said hams were wrongly accused by the report and the collective reputations of the nation's licensed radio operators had been damaged. The UBA noted that it believed piracy had been involved and not any legally licensed radio operator.

The VRT has since issued a correction.

A note on the UBA website quotes a spokesman for the Flemish Traffic Center, saying that hacking and false notifications have occurred a number of times over the years and little can be done to prevent it.

<https://www.arnewsline.org/>

## Solar Cycle's Not a Vicious Cycle After All

(ARnewsline 8/23/19) If you find yourself alternately cursing and thanking the 11-year solar cycle for its impact on the HF bands, maybe a little more understanding would help matters. Scientists reported recently that they may have new clues about what forces make the cycle do what it does. Reporting on the ScienceAlert website, the researchers blame - or perhaps credit - changes in the alignment of the planets. Jupiter, Earth and Venus exert a gravitational influence on the tides in solar weather, they say, and when the planets are aligned, every 11.07 years, it coincides with a time of solar minimum. German physicist Frank Stefani calls it a "clocked process" and compares it to the way the Earth's tides are influenced by the gravity of the moon. The research was originally published in the journal Solar Physics.

<https://www.arnewsline.org/>

<https://www.space.com/planets-affect-solar-cycle.html>

<https://link.springer.com/article/10.1007%2Fs11207-019-1447-1>

## Nebraska QSO Party

1 Day Only—September 7, 2019

8am to 8 pm CDT

For info & rules see:

<https://www.qcwa.org/chapter025.htm>