



# MARC Beacon

Volume 9, Issue 11

The Morongo Basin Amateur Radio Club Newsletter

NOVEMBER 2020

## President's Message

President Message 2020.11.01

Hello Morongo Basin HAM Radio Operators! This is my favorite month of the year because the temperature is normally not too hot and not too cool, also because of the following events:

- **Tue 3 Nov: Election Day.** Please vote if you haven't already. No matter who wins, I support and respect every president of the United States.
- **Tue 10 Nov: The 245th Marine Corps birthday.** Raah! Semper Fidelis. Happy Birthday Marines! Oooh!
- **Wed 11 Nov: Veterans' Day.** A big thank you to all who served to make the United States of America the best country in the world.
- **Thu 26 Nov: Thanksgiving.** Be grateful for what you have and thank the special people in your life.

Judy and I totally enjoyed our 3 weeks road trip. We visited 14 states (California, Arizona, New Mexico, Texas, Oklahoma, Missouri, Kansas, Indiana, Ohio, Michigan, Wisconsin, Iowa, Nebraska, and Colorado). We travel 5,700 miles. It was hot, cold, rainy, and snowy, but the best part is we witnessed the turning of the leaves in many states. Thank goodness we had no issues during our trip. No accidents, sickness, or car trouble. We were even able to participate in the morning Cawfee Tawk net and check-in on the Tuesday night MARC net while we were out of state. See my article on how I did it with my node.

Please schedule time to check in on the 7 PM Tuesday net and if you can, please join us on the Cawfee Tawk net every morning at 10 AM.

Take care of yourself and enjoy each day. If you're not having fun, then you're doing something wrong.

This is WO4ROB, Rob from Joshua Tree.

**Rob Cloutier**  
**WO4ROB**

Joshua tree  
Club President  
(760)401-6666

[rob\\_cloutier@hotmail.com](mailto:rob_cloutier@hotmail.com)



### Linked Repeaters

#### **Yucca Valley, W6BA**

146.790 MHz (- shift = 146.190 MHz) 136.5 Hz PL/CTCSS

#### **Twentynine Palms, W6BA**

147.060 MHz (+ shift = 147.660 MHz) 136.5 Hz PL/CTCSS

#### **Landers, WB6CDF**

447.580 MHz (- shift = 442.580 MHz) 173.8 Hz PL/CTCSS

### Nets

Amateur Radio Emergency Service (ARES)  
Mon @ 1915  
Morongo Basin Amateur Radio Club (MARC)  
Tue @ 1900

### Social Media,

**Club web page:** <http://www.w6ba.net>

**Facebook:**

<https://www.facebook.com/MorongoBasinAmateurRadioClub>

### Club Meeting

**(Cancelled Until Further Notice)**

**Every 3rd Thursday of the month at 6 PM. At the church of the Nazarene in Yucca Valley at 56248 Buena Vista Dr**



# MARC Beacon

The Morongo Basin Amateur Radio Club Newsletter



**TOM MEDLIN W5KUB WEEKLY WEBCAST 100% HAM RELATED. TUESDAY NIGHTS AT 8PM**  
<http://tmedlin.com/> OR <http://w5kub.com>



**HAMNATION IS A WEEKLY HAM RADIO RELATED TV SHOW WITH FAMOUS HOSTS SOME OF YOU MAY KNOW LIKE, GORDON WEST, BOB HEIL AND OTHERS. WEDNESDAY NIGHTS AT 6PM**  
<https://twit.tv/shows/ham-nation>



The weather station on Paxton Hill at the W6BA repeater site is working great. It will show accurate wind speed and direction measurements for the top of the mountain .

<https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAYUCCA57>

Glenn N6GIW

I also have A weather station by the high school in Yucca Valley N6GKB. Showing the temps and wind speeds in the center of Town.

[https://www.wunderground.com/dashboard/pws/KCAYUCCA35?cm\\_ven=localwx\\_pwsdash](https://www.wunderground.com/dashboard/pws/KCAYUCCA35?cm_ven=localwx_pwsdash)

Keith N6GKB



**We are having an informal DAILY net, that started Monday March 30<sup>th</sup>. Join us with your own cup!**

For right now it's called the "**CAWFEE TAWK**" net at 10:00 am till 11:00. It's just a way for any and all hams to check in, say good morning and see what everyone is up to. With all the things going on in this world we would just like to stay connected and be sure our local community of hams are ok. A little meet and greet with your coffee and donuts in the morning is a great start.

More like ice coffee now that it has warmed up!



These Vehicle magnets are still available from Rob, WO4ROB. They 12" long. I believe they are \$10 each. Contact him with your order.



# MARC Beacon

The Morongo Basin Amateur Radio Club Newsletter

## How Is It That Rob WO4ROB Can Get Into The Yucca Repeater From All Over The USA? ! ? ! ? ! ?



WO4ROB Remote Connection Node

Since Judy and I do a lot of traveling, I wanted a way to connect to the local repeater using my iPhone, no matter where I was in the world. My solution is using a Raspberry Pi AllStarLink (ASL) node connected to a Baofeng radio that stays at my house while I connect to the node through the internet using the FREE Zoiper application (app) on my iPhone.

If I want to connect to the repeater, I start the Zoiper app on my iPhone and make a call to my node at home. Once the call is connected, I remotely turn on the Baofeng radio with my iPhone. This is done using a Wyze Plug at home and the Wyze app on my iPhone. The Wyze plug is a WiFi controlled electrical outlet that the radio is plugged into. I don't want the radio at my home connected to the repeater 24/7 just in case something horribly goes wrong like having a hot mic that continuously keys up the repeater.

In the Zoiper app, I press the Speaker button on the touch screen to hear the distant end better, and the Mute button so no one can hear me. If I want to transmit, I press the Mute button off and on like a push to talk (PTT) button on a radio. When I want to disconnect, I press the End Call touch screen button in the Zoiper app on my iPhone, and remotely turn off the electrical outlet connected to my home radio using the Wyze app.

### Configuration:

If you want to build your own remote connection node, then perform the following configuration steps: (Details for each step may be requested, and provided by the author.)

1. Register your own node with your call sign and a password at:  
<https://www.allstarlink.org/portal/register.php>
2. Purchase the hardware listed in this article for less than \$200.
3. Download the FREE HamVoIP software from:  
<https://hamvoip.org/#download>
4. Load and configure the HamVoIP software onto a micro SD card for the Raspberry Pi.
5. Download and configure the FREE Zoiper Lite VoIP app onto your iPhone and create an account on your Raspberry Pi.
6. Configure port forwarding on your home WiFi router to allow you to access your node beyond your home network.
7. Disable the un key courtesy tone or roger beep.
8. Disable the voice node callsign ID announcement.
9. Disable the hourly time announcement.
10. Create and activate a whitelist to only allow specific nodes to connect to your node.
11. Adjust the Rx and Tx levels to eliminate distortion.

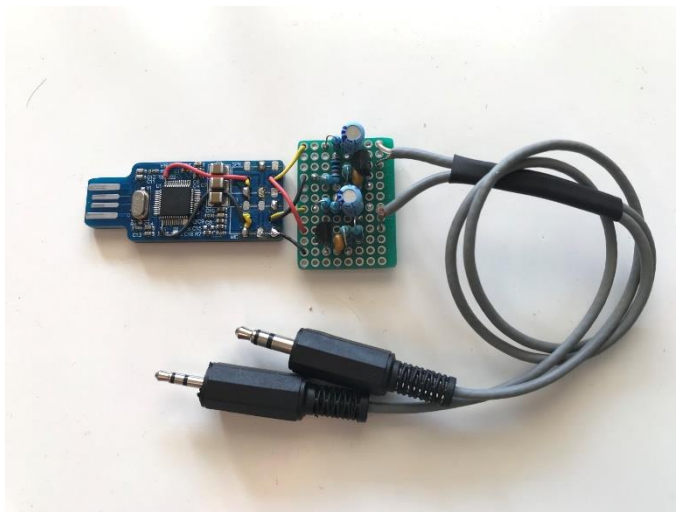
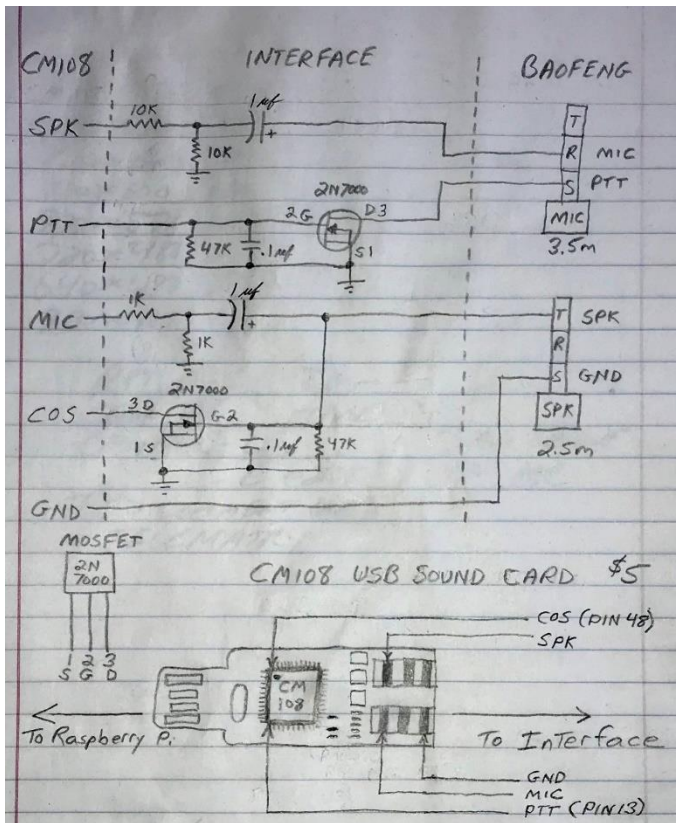
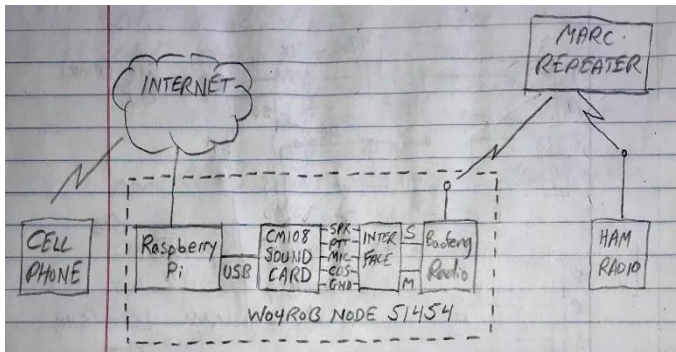
### Hardware: (\$185)

1. Raspberry Pi, Revision 4, Model B (RPi4B) with 4 Giga Bytes (GB) of Random Access Memory (RAM), heat sinks, fan, case, 32 GB micro SD card, and a 5 volt 3 amp power supply, \$100 at amazon.com (Note: HamVoIP will not work on RPi4B with 8GB RAM)
2. Baofeng UV-5R radio, \$30 at amazon.com
3. Baofeng UV-5R car battery adapter, \$10 at amazon.com
4. AC to DC 12 volt 3 amp power supply with cigarette lighter adapter, \$15 at amazon.com
5. WiFi remote outlet plug, \$10 at wyze.com
6. CM108 USB sound card, \$10 at amazon.com
7. Sound card to Baofeng radio interface, WO4ROB design \$10, or DIY

### Software: (FREE)

1. HAM VoIP, FREE at hamvoip.org
2. Zoiper Lite VoIP soft phone, FREE at the App Store
3. Wyze app, FREE at the App Store

(See Graphics on next page.)



## ARRL Urges Members to Join in Strongly Opposing FCC's Application Fees Proposal

10/27/2020

ARRL will file comments in firm opposition to an FCC proposal to impose a \$50 fee on amateur radio license and application fees. With the November 16 comment deadline fast approaching, ARRL urges members to add their voices to ARRL's by filing opposition comments of their own. The FCC *Notice of Proposed Rulemaking (NPRM)* MD Docket 20-270 appeared in the October 15 edition of *The Federal Register* and sets deadlines of November 16 to comment and November 30 to post reply comments, which are comments on comments already filed. ARRL has prepared a [Guide to Filing Comments with the FCC](#) which includes tips for preparing comments and step-by-step filing instructions. File comments on MD Docket 20-270 using the FCC's Electronic Comment Filing System ([ECFS](#)).

Under the proposal, amateur radio licensees would pay a \$50 fee for each amateur radio application for new licenses, license renewals, upgrades to existing licenses, and vanity call sign requests. The FCC also has proposed a \$50 fee to obtain a printed copy of a license. Excluded are applications for administrative updates, such as changes of address, and annual regulatory fees. Amateur Service licensees have been exempt from application fees for several years.

The FCC proposal is contained in a *Notice of Proposed Rulemaking (NPRM)* in MD Docket 20-270, which was adopted to implement portions of the "Repack Airwaves Yielding Better Access for Users of Modern Services Act" of 2018 — the so-called "[Ray Baum's Act](#)." The Act requires that the FCC switch from a Congressionally-mandated fee structure to a cost-based system of assessment. In its *NPRM*, the FCC proposed application fees for a broad range of services that use the FCC's Universal Licensing System (ULS), including the Amateur Radio Service. The 2018 statute excludes the Amateur Service from annual regulatory fees, but not from application fees. The FCC proposal affects all FCC services and does not single out amateur radio.

ARRL is encouraging members to file comments that stress amateur radio's contributions to the country and communities. ARRL's [Guide to Filing Comments](#) includes "talking points" that may be helpful in preparing comments. These stress amateur radio's role in volunteering communication support during disasters and emergencies, and inspiring students to pursue education and careers in engineering, radio technology, and communications.

As the FCC explained in its *NPRM*, Congress, through the Ray Baum's Act, is compelling regulatory agencies such as the FCC to recover from applicants the costs involved in filing and handling applications.

In its *NPRM* the FCC encouraged licensees to update their own information online without charge. Many, if not most, Amateur Service applications may be handled via the largely automated Universal License Service (ULS). The Ray Baum's Act does not exempt filing fees in the Amateur Radio Service, and the FCC stopped assessing fees for vanity call signs several years ago.



# MARC Beacon

The Morongo Basin Amateur Radio Club Newsletter

## Oldest Known US Radio Amateur, Cliff Kayhart, W4KKP, SK at 109

10/29/2020

Charles Clifford "Cliff" Kayhart, W4KKP, of White Rock, South Carolina, died on October 26, a few days past his 109th birthday. An ARRL member, he was the oldest known US radio amateur and possibly the oldest ham in the world.

Last November, Roanoke Division Director Bud Hippisley, W2RU; Vice Director Bill Morine, N2COP, and South Carolina Section Manager Marc Tarplee, N4UFP, jointly presented Kayhart with ARRL's Centurion Award, which honors centenarian members with at least 40 years of ARRL membership. On that occasion, Hippisley interviewed Kayhart.

First licensed in 1937 as W2LFE in New Jersey, he also held W9GNQ. According to his obituary, Kayhart built his first radio at the age of nine. After working for New York Telephone Company as a young man, he became enamored with engineering, so he headed off to Tri-State University in Indiana, graduating with a degree in aeronautical engineering. Afterward, he went to work for RCA in New Jersey, becoming a quality control manager. Positions followed at Philco Radio and Bendix Aviation.

During World War II, Kayhart joined the US Army Signal Corps, which sent him off to school to study radar. He was assigned to the US Army Air Corps in Georgia and then sent to Hawaii to become part of a Signal Service Battalion. He served at Iwo Jima, shortly after the US victory there, setting up equipment for long-range radio communication and broadcasting, with rhombic antennas in four directions.

In 1946, Kayhart left the Army with the rank of captain, joining Magnavox the following year as its first field engineer; at the time, Magnavox was about to launch a line of television sets. Eventually, he was transferred to the Customer Acceptance Department in Tennessee. Kayhart traveled to Japan in 1963 in search of Japanese television sets. He retired from Magnavox in 1976.

In the 1970s, while living in Tennessee, he spearheaded a project that installed a 2-meter FM repeater on the summit of Camp Creek Bald, still in operation on the Tennessee/North Carolina border.

After Kayhart moved into an assisted living facility in 2017, he had an HF station in his room, courtesy of the Dutch Fork Amateur Radio Group, to which he belonged, and the Columbia Amateur Radio Club. Kayhart remained active on the air until shortly before he died.

According to his obituary, Kayhart was also the oldest surviving Iwo Jima veteran and eighth oldest living US male. He was also the oldest man on the South Carolina Honor Flight trip to Washington, DC. Kayhart was profiled in the June 2018 issue of *QST*.

## Hurricane Watch Net Goes Back on Duty as Another Storm Heads for the Gulf Coast

10/27/2020

**[UPDATED 2020-10-28 @ 1845 UTC]** As the Gulf Coast braces for yet another hurricane, the Hurricane Watch Net ([HWN](#)) has announced plans to activate on Wednesday morning at 1500 UTC on 14.325 MHz for Hurricane Zeta. Simultaneous operation on 14.325 MHz and 7.268 MHz will begin at 2100 UTC. Once activated, the net will remain in operation on 14.325 MHz for as long as propagation permits and will remain on 7.268 MHz until Zeta has been downgraded to a tropical storm or propagation is lost, whichever occurs first.

Zeta is the third major storm in the region so far this hurricane season, and it is forecast to be a Category 1 hurricane when it makes landfall somewhere along the Gulf Coast of southeastern Louisiana late on October 28. As of 1200 UTC on Wednesday, October 28, Zeta was continuing to strengthen. Life-threatening storm surge and strong winds are expected today along portions of the northern Gulf Coast beginning around mid-day, according to the National Hurricane Center. Zeta was some 265 miles southwest of the mouth of the Mississippi River and some 295 miles south-southwest of New Orleans, with maximum sustained winds of 90 MPH, moving to the north at 17 MPH.

WX4NHC at the National Hurricane Center (NHC) in Miami will activate again at 1600 UTC on Wednesday, October 28. WX4NHC will monitor 14.325 and 7.268 MHz as well as with the VoIP Hurricane Net ([VoIP WX](#)) via Echolink, Winlink, APRS, and other resources. The station will work with these and HWN in gathering weather data from net participants in the affected regions.

"Please relay any reports from stations or ships at sea in the affected area with or without weather data for use by NHC forecasters," said Assistant Amateur Radio Coordinator Julio Ripoll, WD4R. The WX4NHC online [Hurricane Report Form](#) is available on the WX4NHC website.

Amateur Radio Emergency Service (ARES) teams in Louisiana went on alert yesterday. ARES is expected to transition to standby status according to weather conditions, and will only activate at the request of local emergency management officials or served agencies. At midday on Wednesday, the Louisiana Emergency Net was placed on active standby status on 3.878 and 7.255 MHz



# MARC Beacon

The Morongo Basin Amateur Radio Club Newsletter

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## ARRL Logbook of The World Harmonizes Designation of FST4 Protocol

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10/19/2020

The Logbook of The World (LoTW) Committee worked with WSJT-X developer Joe Taylor, K1JT, to harmonize the designation of FST4 among WSJT-X, the ADIF standard, and LoTW. At present, FST4 is only supported in a recently released beta version of WSJT-X. The committee's action was to avoid the sort of confusion that cropped up among LoTW users logging contacts in FT4 when that protocol was first included in WSJT-X. In the case of FST4, the committee acted proactively to help users avoid difficulties and obtain the maximum number of contact matches. The ADIF standard has been updated to support FST4 as a sub-mode of MFSK, and configuration file CONFIG.xml for LoTW has been updated to version 11.13, accordingly, to support FST4. Users will be offered the update when they run TQSL.

Again, FST4 is only available in *WSJT-X*. An ADIF file emitted by *WSJT-X* should properly identify FST4, so that contacts will upload smoothly into LoTW, *provided* the CONFIG file has been updated. —  
*Thanks to Greg Widin, K0GW*

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## FCC Headquarters Relocates

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10/19/2020

FCC Headquarters has moved. The new address is 45 L St. NE, Washington, DC 20554. The change is effective immediately. The FCC announced plans to move last spring, but the transition was delayed by the COVID-19 pandemic.

The FCC, like many federal agencies, has its own zip code, so there will be no disruption in mail delivery sent by USPS to the former address. The FCC still prohibits the delivery of hand-carried documents, and all COVID-19 restrictions or instructions regarding access to FCC facilities remain in place at the new location.

"The FCC continues to balance its efforts to be accessible to the public with the need for heightened security and health and safety measures and encourages the use of the Commission's Electronic Comment Filing System (ECFS) to facilitate the filing of applications and other documents when possible," the FCC said in an October 15 [Public Notice](#).

Due to the pandemic, the move was accomplished by professional movers without the presence of any employees, all of whom had been working from home.

An attempt was made during the summer to let employees back into headquarters for a day to pack up their offices and remove personal belongings, but that plan had to be scrapped after several employees tested positive for COVID-19.

Most FCC staff continue to work from home and are not expected to be physically present in their new offices before next June.

In anticipation of the planned move, the FCC last spring also announced the adoption of a new FCC seal. The redesign is the product of an agency-wide contest that solicited proposals from employees and contractors. The revised design incorporates several elements: communications technologies; four stars on the outer seal border, drawing from the legacy of the predecessor Federal Radio Commission (FRC) seal, retaining the three-wire dipole supported by two towers; 18 stars on the shield, recognizing the current number of bureaus and offices; and the eagle and shield, identifying the FCC as a federal government agency.

Official use of the new seal was to begin following completion of the FCC's move from The Portals to its new location on L Street NE.

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## Multiple Balloons Carrying Ham Radio Payloads Launched

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10/14/2020

Eleven schools across the US launched helium-filled balloons carrying amateur radio payloads on October 9. The Smithsonian Air and Space Museum **live-streamed** the multiple launches. The balloons are trackable via ham radio on APRS (either 144.39 MHz FM or 144.34 MHz FM).

The lighter-than-air vehicles were intended to head east around the globe, although there's no accounting for upper air currents. Altitudes were expected to be in the 20,000 – 25,000 foot range, with the balloons taking a few days to cross the Atlantic Ocean.

Some of the balloons are already out over the Atlantic, and one, the KS1LAS-1 balloon, launched from Washington, was reported over the Mediterranean on October 14, moving at a speedy 69 MPH at an altitude of some 40,400 feet.

The K4NVA-1 balloon launched from Northern Virginia was reported on October 11 just east of St. Johns, Newfoundland, at just over 23,100 feet, moving at 62 MPH. Others are still over North America and/or not heading in the intended direction. The NW3DC-1 and NW3DC-2 balloons, sent up from Washington, DC, were last reported on launch day close together just off Maryland's Eastern Shore.

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# MARC Beacon

The Morongo Basin Amateur Radio Club Newsletter

## VHF-UHF FT8 Activity

**Purpose:** VHF FT8 Activity is an "OPEN" contest, for promoting FT8 activity on the 2m and 70 cm bands.

An increased activity will provide the possibility of working new DXCC or squares, also can make use of short-lived propagation or even detect great openings which otherwise can go unnoticed.

**Who can participate?** Each and every ham radio with a valid license, who accepts the present set of rules.

**Contest days:** from January to December 2020

- Every **first** Wednesday of each month for the 2m band (144.174 MHz)
- Every **second** Wednesday of each month for the 70cm band (432.174 MHz)

**Round period:** 17:00 to 20:00 UTC

**Modes:** FT8

**Categories: SINGLE (single operator)**

LP =Low Power Total output power must not exceed 50 watts at any time

HP=High Power

**MULTI (multi operator)**

**Exchange:** Callsign and maidenhead grid locator (4 characters, e.g., KN15).

**Multipliers:** The multiplier is the number of different maidenhead grid locators worked per round.

**Scoring:** One (1) point per QSO. Multiply total QSO points with the total number of grid locators (GL) worked. All QSOs validated through the crosscheck of received logs (callsign, grid locator) will be scored. Likewise, the QSO with a station that did not send the log will be scored, if that station appears at least in another received log, and in the simple majority of the logs received, the station in question appears with the same grid locator. If a callsign appears only in one log, this is an "unique" and will not be validated.

Please help us validate as many QSOs as possible by spreading the news about this activity!

**Awards:** Certificates will be awarded to the top scoring station in each category/band and in each country.

**Logs:** Only electronic logs in ADIF format files are accepted, separately for each band.

Logs file name should be like: callsign.adi

**You can upload your entire WSJT/JTDX Log file. The Log uploader tool will filter out the QSOs. Usually, the file can be found in:**

"C:\Users\<User>\AppData\Local\WSJT-X (or JTDX)". You can also open your FT8 software, go to File -> Open Log Directory and copy wsjtx\_log.adi to your Desktop and upload from there.

**You'll be asked for the callsign, locator and category after you upload your log.**

Logs must be upload in maximum 5 (five) days from the end of each round. Logs received later than 5 (five) days will not be included in the results, but can be used as check-logs. Received logs list will be posted on the contest [webpage](#) .

**Round results and aggregate:** Results table for each round and also the aggregated best results from eight rounds, will be posted on the contest webpage ([www.FT8Activity.eu](http://www.FT8Activity.eu))

**Final Results:** Final results will be posted at the end of the contest, after 20 of December, for the following categories:

- 144 MHz LP Single - General and by DXCC,
- 144 MHz HP Single - General and by DXCC
- 144 MHz Multi General and by DXCC
- 432 MHz LP Single - General and by DXCC
- 432 MHz HP Single - General and by DXCC
- 432 MHz Multi General and by DXCC

**Remarks:**

**Use the standard FT8 mode. Don't use the VHF Contest mode!**

Using multiple simultaneous signals (fox mode or similar) is forbidden.

There are no penalties for dupe QSOs, they just won't be counted.

Use of DX clusters are allowed in every category; however, self-spotting is forbidden.

It is also allowed to use ON4KST chat, for skeds only.

Unacceptable examples for communications on chat-channels:

- "I only need the final rogers..";
- "you are -19db";
- "I copy you. Please continue ";

We are confident you are respecting DX Code of Conduct.

Any suggestions are welcome: [ft8@ft8activity.eu](mailto:ft8@ft8activity.eu).

QSO BANAT Association, YO2KQT.



# MARC Beacon

The Morongo Basin Amateur Radio Club Newsletter

## Nationwide Red Cross Emergency Communications Drill Set for November 14

The nationwide American Red Cross Emergency Communications Fall Drill, a joint exercise with ARRL Amateur Radio Emergency Service (ARES®) groups, is set to take place on November 14. This exercise evolved from the highly successful spring drill that attracted hundreds of participants from some 40 states and Puerto Rico.

The fall drill will be a Winlink-specific event with these goals: (1) pass traditional American Red Cross (ARC) forms from as many states and as many radio amateurs as possible to one of six division clearinghouses, and (2), bring as many radio operators as possible up to a “basic” level of Winlink proficiency. A series of Winlink Workshops is held each Thursday at 0100 UTC on Zoom.

*Winlink Proficiency Goals* have been drafted, a Winlink technical support team has been formed, and *Metrics for Drill Success* have been developed. The proficiency goals are established as a training guideline and references online training resources. Many hams new to Winlink may find these resources helpful.

More than 300 radio amateurs have signed up for the event, and some 100 volunteers showed up for a pre-drill briefing call earlier this month. Another briefing call will be held in early November.

This event is open to *all* radio amateurs.

For more information, contact [Mike Walters, W8ZY](#), with ARES-related questions, or [Wayne Robertson, K4WK](#), with Red Cross-related topics. — Thanks to *The ARES Letter*

## The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: Our sun is finally waking up. The average daily sunspot number rose from 15 to 17, which is nothing remarkable, but the reporting week ended on Wednesday with a daily sunspot number of 36. Average daily solar flux rose from 74.5 to 76.9.

Predicted solar flux is 88 on October 29 – 31, which is remarkable; 82, 78, 75, and 72 on November 1 – 4; 74 on November 5 – 7; 75 on November 8 – 12; 72 on November 13; 70 on November 14 – 21; 74 and 72 on November 22 – 23; 70 on November 24 – 26; 72 on November 27; 74 on November 28 – December 4; 75 on December 5 – 9; 72 on December 10, and 70 on December 11 – 12.

Predicted planetary A index is 8 on October 29; 5 on October 30 – 31; 12 and 8 on November 1 – 2; 5 on November 3 – 6; 10 on November 7; 5 on November 8 – 16; 10, 8, and 12 on November 17 – 19; 18, 15, and 20 on November 20 – 22; 15, 10 and 8 on November 23 – 25; 5 on November 26 – 27; 8 on November 28; and 5 on November 29 – December 12.

Sunspot numbers for October 22 – 28 were 11, 11, 11, 17, 22, and 36, with a mean of 17. The 10.7-centimeter flux was 74.9, 72, 72.1, 74.2, 75, 82.4, and 87.6, with a mean of 76.9. Estimated planetary A indices were 6, 12, 17, 15, 15, 9, and 12, with a mean of 12.3. Middle latitude A index was 3, 10, 16, 9, 15, 7, and 9, with a mean of 9.9.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) “What the Numbers Mean...,” and [check out](#) K9LA’s Propagation Page.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.





# MARC Beacon

Volume 9, Issue 11

The Morongo Basin Amateur Radio Club Newsletter

NOVEMBER 2020

## NOVEMBER 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
		MARC Net 7:00 pm NCS ROB		ARES Meeting 6:00 pm		
8	9	10	11	12	13	14
	ARES Net 7:15 pm	MARC Net 7:00 pm NCS GLENN				
15	16	17	18	19	20	21
	ARES Net 7:15 pm	MARC Net 7:00 pm NCS KEITH		NO MEETING		
22	23	24	25	26	27	28
	ARES Net 7:15 pm	MARC Net 7:00 pm NCS FRED				
29	30	Dec 1				
	ARES Net 7:15 pm	MARC Net 7:00 pm NCS JESSY		STAY SAFE STAY HEALTHY STAY IN TOUCH		KAFEE TAWK 10AM DAILY CLUB REPEATER

↓ One More Page ↓



# MARC Beacon

The Morongo Basin Amateur Radio Club Newsletter

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## [FT8 HEAVY WEIGHTS EVENT 2020](#)

The event takes place on December 26th at 00:00 UTC to 23:59 - only 24 hours.

The frequencies we will use are non-standard FT8 frequencies.

We have narrowed it down to 3 major bands of **17m**, **20m**, and **40m**

The unofficial frequencies we'll use are: **18.095 MHz**, **14.090 MHz** and **7.064 MHz**

Please message me for more Info 73

<https://qrznow.com/ft8-heavyweights-by-9z4y-kc0bra/...>

"Make Ham radio great again" Join the fun, get the contacts.

**FT8 Heavy Weights 2020 edition**

On Dec 25 at 8 PM – Dec 26 at 8 PM UTC

Be there or be square.

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