



Sinewaves



STONEWALL JACKSON AMATEUR RADIO ASSOCIATION

Meetings: 3rd Thursday of each month, 1930 hrs at Saint Marks Lutheran Church RT19/98 Clarksburg
SJARA Tuesday Night Net
This net meets each Tuesday evening at 2100 hours utilizing the N8FMD Repeater on
147.210 MHz with PL Tone of 103.5

October 15, 2016

<u>Net Control</u>	<u>Date</u>
1. K8TPH.....	September 20, 2016
2. N8FMD.....	September 27, 2016
3. K8PEC / K8TPH	October 4, 2016
4. WV8TIM	October 11, 2016
5. WD8NSC	October 18, 2016

Minutes SJARA Meeting September 15, 2016

The meeting was called to order by President, KA5NYN at 19:30. The minutes from the August 2016 read by Secretary K8TPH. Motion made to accept minutes as read by N8YPE and seconded by K8PEC. Passed unanimously.

Treasurer's report was presented by Treasurer, KD8IZC. Balance on August 31, 2016 was \$937.72. Dues received tonight will be deposited by next meeting. Motion made by K8RAS and seconded by WV8TIM. Passed unanimously.

Old Business:

Paul Bump OES Harrison county attended the meeting to discuss what was previously presented at the August meeting concerning emergency communications at the 911 center. Paul reported that he had discussions with the Red Cross concerning (Shelters) Reception centers. They are in the process of making a list of possible buildings

and areas needing emergency communications via Amateur Radio with the 911 center.

Paul presented an APP to be placed on smart phones to report information covering areas designated during an emergency. A meeting has been scheduled for Wednesday September 21, 2016 in the 911 center conference room to prepare a form to be incorporated with the APP Survey 123 for AscGIS and training for the APP. All members holding an ARES ID will be given access to 911 center.

New Business:

Tentative plans for the SJARA Christmas Party will be made for December 15, 2016 in Eat'n Park at 6 with meal to be served at 7PM. Secretary K8TPH announced that anything pertaining to the SJARA.org website, the Sinewaves, the SJARA Tuesday night net, and the ARES Friday night net held on the HAMTALK System should be directed to KC8AJH in the future. Nominations for Club officers will be presented at the October meeting

to be voted on at the November meeting.

Members present were: WV8TIM, K8YLA, Izzy, K8TPH, K8PEC, WD8NSC, KA5NYN, KD8IZC, K8RAS, K8EAS, KD8IZW, N8YPE
Net controls for September/October as follows: September 20 K8TPH, September 27 N8FMD, October 4 K8PEC (analog) K8TPH (C4FM), October 11 WV8TIM, October 18 WD8NSC

Meeting adjourned at 2017.

Amateur Radio Volunteers Mustered in Response to Hurricane Matthew

After the longest activation in its more than 50-year history, the Hurricane Watch Net ([HWN](#)) secured operations for Hurricane Matthew on October 9 at 0400 UTC. HWN Manager Bobby Graves, KB5HAV, reported that

the net was in continuous operation for 6 days, 7 hours, gathering real-time ground-truth weather data as the storm passed through the Caribbean and up along the US Eastern Seaboard, and passing the data along to [WX4NHC](#) at the National Hurricane Center ([NHC](#)). Various Amateur Radio Emergency Service (ARES) nets also activated along the East Coast. The first major hurricane of the 2016 Atlantic hurricane season and, at one point, a Category 5 storm, Matthew was downgraded to a post-tropical cyclone as it headed out into the Atlantic.

"Many have perished in Haiti and Cuba as a result of Matthew, and the death-toll rises still," Graves noted. "Many residents in the Bahamas and the US East Coast states of Florida, Georgia, South Carolina, and North Carolina felt the impact of Matthew as well." More than 30 died in the US. FEMA reports that power remained out for thousands of Florida, Georgia, South Carolina, and North Carolina residents as of October 13. Cell service also was affected.

Current Rules Holding Hams Back from Adopting State-of-the-Art Technology, ARRL Says

In [comments](#) filed on October 12 with the FCC, ARRL reiterated its case that the FCC should impose a 2.8 kHz limit on symbol rate for digital modes, arguing that its approach is both balanced and necessary. ARRL had asked the FCC to change the Part 97 rules

to delete the symbol rate limits in Section 97.307(f) and replace them with a maximum bandwidth for data emissions of 2.8 kHz on amateur frequencies below 29.7 MHz. In a July *Notice of Proposed Rule Making (NPRM)* in WT Docket 16-239, the FCC proposed to eliminate the current baud rate limitations for data emissions, consistent with ARRL's *Petition*, but it declined to propose a *bandwidth* limitation for data emissions in the MF and HF bands to replace the baud rate limitations.

ARRL told the FCC in its comments that the current HF symbol rate "speed limit" reflects 1980s technology and has no place in an experimental radio service in which modern protocols could be efficiently deployed in crowded RTTY/data subbands.

"The symbol rate limit was created in order to maximize the efficient use and reuse of that crowded, shared spectrum, but the assumptions made at the time are no longer valid," ARRL said, "and the rules now prohibit radio amateurs from utilizing state-of-the-art technology, thus precluding or substantially inhibiting any meaningful contribution to the advancement of the radio art in this area." ARRL said earlier assumptions are no longer valid mainly because there is no correlation between the data rate and the occupied bandwidth in the rules now.

The League said present rules in the HF data subbands promote inefficiency, allowing data transmissions of unlimited bandwidth as long as the symbol rate is sufficiently low, and it

stressed that there must be *some* limit on occupied bandwidth for HF data emissions.

"Eliminating the symbol rate limitations for data emissions *and substituting a maximum authorized bandwidth* would permit the utilization of all HF data transmission protocols presently legal in the Amateur Radio Service, as well as state-of-the-art protocols that fall within the authorized bandwidth," the League said. The deadline to file reply comments in the proceeding -- i.e. comments on comments already filed -- is November 10.

Donations of Unwanted Amateur Radio, Test Gear Support ARRL's Mission

Downsizing your shack? Want your now-unused equipment to help promote and preserve Amateur Radio for future generations? Consider donating your used Amateur Radio and test equipment to ARRL.

The ARRL Lab accepts used equipment from radio amateurs and their families. Once evaluated, much of the donated equipment is sold, and proceeds help to fund programs that educate, promote, and preserve the values of Amateur Radio. Assistant ARRL Laboratory Manager Bob Allison, WB1GCM, is spearheading the donation program.

"A common problem for hams and their families is what to do with surplus Amateur Radio

equipment," Allison said. "We have, for a number of years, accepted in-kind donations on a limited basis. Now, thanks to dedicated volunteers in the ARRL Lab, we have additional help to efficiently clean and test donated equipment. So, we're letting our members know that the donation door is open; all are welcome!"

Allison said that many donors have expressed satisfaction and, at times, relief that their equipment is going to a good cause. "An alarming amount of relatively new equipment has ended up in dumpsters, because family members had no idea what the equipment was or what to do with it. That is a shame," he said.

For more information on how to donate used amateur equipment, accessories, and test equipment, [contact](mailto:labdonations@arrl.org) the ARRL Laboratory via e-mail at labdonations@arrl.org or by telephone at (860) 594-0214 during ARRL Headquarters business hours.

ARRL is an IRS-designated 501(c)(3) organization holding federal tax identification number 06-6000004. While ARRL gladly acknowledges receipt of all in-kind donations, the League cannot, by law, provide donors with a dollar value for items donated.

Get Set for School Club Roundup!

With the fall semester well under way, school clubs are at full throttle. That means it's time for the ARRL School Club Roundup ([SCR](#)) -- fall edition. Propagation

typically improves at this time of year, and clubs should not find it too difficult to make contacts across the US and around the globe, even with a modest station. Unlike most contests, this one takes place during the week. SCR 2016 starts on Monday, October 17, beginning at 1300 UTC, and runs through Friday, October 21, at 2359 UTC. Stations may operate for up to 24 hours during the entire contest, and may only operate for 6 hours



A trio of operators at the Dresden Elementary Amateur Radio Station club's KD8NOM took turns calling, logging, and searching for multipliers in the Spring 2016 running of the School Club Roundup.

during any single 24-hour period.

There are five participation categories: Elementary/Primary, Middle/Intermediate/Junior High School, Senior High School, College/University Club, and Non-School Club. There is also an Individual category.

If you just want to get on the air and hand out contacts, enter in the Individual category. Any mode -- SSB, CW, or digital -- is okay. Tune around and listen for SCR stations calling CQ, or do it yourself and see who answers (call "CQ School Clubs" if you aren't a club station). Stations exchange signal report, category (School, Club, or Individual), and state, province, or DXCC entity. Once the contest is over, submit

your log online (preferred) or on paper.

The most popular time for younger students to be on the air is during after-school hours, but the older students may be on the air at any time. All groups are limited to one transmitter on the air.

The School Club Roundup is co-sponsored by ARRL and the Long Island Mobile Amateur Radio Club ([LIMARC](#)), and results appear in *QST* as well as online. Logs are due by November 8.

US JOTA Registrations Reach 340 this Year

With Scouting's Jamboree On The Air ([JOTA](#)) just days away, JOTA Coordinator Jim Wilson, K5ND, said this week that approximately 340 US Amateur Radio stations have registered for this weekend's event. That's out of a total JOTA and JOTI (Jamboree on the Internet) count of 596. The official [JOTA-JOTI sign-up system](#) remains open. JOTA will be on the air October 14-16. Wilson urged all stations that register to file post-JOTA reports.

Wilson was *not* optimistic about favorable HF propagation this weekend, but he is hoping for the best. Most JOTA activity will center around [selected HF frequencies](#).

More than 1 million Scouts in 150+ countries -- at nearly 18,000 stations -- are expected to take part in JOTA 2016, engaging with other Scouts to talk about Amateur Radio and their Scouting experiences.

ARRL Invites Nominations for 2016 International Humanitarian Award

Nominations are open for the 2016 ARRL [International Humanitarian Award](#). This award is conferred upon an individual radio amateur or Amateur Radio group that has demonstrated devotion to human welfare, peace, and international understanding through Amateur Radio. The League established this annual award to recognize Amateur Radio operators who have used ham radio to provide extraordinary service to others in times of crisis or disaster.

A committee appointed by the League's president recommends the award recipient(s) to the ARRL Board of Directors, which makes the final decision. The committee is now accepting nominations from Amateur Radio, governmental, or other organizations that have benefited from extraordinary service rendered by an Amateur Radio operator or group.

Amateur Radio is one of the few telecommunication services that allow people throughout the world from all walks of life to meet and talk with each other, spreading goodwill across political boundaries. The ARRL International Humanitarian Award recognizes Amateur Radio's unique role in international communication and the assistance amateurs regularly provide to people in need.

Nominations should include a summary of the nominee's

actions that qualify the individual (or individuals) for this award, plus verifying statements from at least two people having first-hand knowledge of the events warranting the nomination. These statements may be from an official of a group (for example, the American Red Cross, The Salvation Army, or a local or state emergency management official) that benefited from the nominee's particular Amateur Radio contribution. Nominations should include the names and addresses of all references.

All nominations and supporting materials for the 2016 ARRL International Humanitarian Award must be submitted in writing in English to ARRL International Humanitarian Award, 225 Main St., Newington, CT 06111 USA by December 31, 2016. In the event that no nominations are received, the committee itself may determine a recipient or decide to make no award.

The winner of the ARRL International Humanitarian Award receives an engraved plaque and a profile in *QST* and other ARRL venues.

Former ARRL DXCC and Awards Manager Bill Moore, NC1L, SK

Former ARRL DXCC and Awards Manager Bill Moore, NC1L (ex-KA1MRR, KB1UN), of Newington, Connecticut, [died](#) on October 6. He was 64. Moore was seriously injured in a motor vehicle accident in July 2014 that left him paralyzed from the chest

down. He was never able to return to work at ARRL Headquarters and retired in 2015. An ARRL member, Moore had worked at League Headquarters for 23 years, starting in 1992.

A Brooklyn, New York native, Moore was a Vietnam-era veteran of the US Army. A brief service was held on October 12 in Newington. -- *Thanks to The Daily DX, Pete Chamalian, W1RM*

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: At 0356 UTC on October 13, the Australian Space Forecast Centre issued a geomagnetic warning calling for increased solar wind speed due to coronal hole effects expected for October 14 and 15, and active conditions, with possible minor storm periods.

Solar flux and sunspot numbers rose over the past week, while geomagnetic indicators were down. Average daily sunspot numbers for October 6-12 rose 34.3 points to 55, and the average daily solar flux rose 15.2 points to 101.9, referenced to the previous 7 days.

The average planetary A index declined from 21.4 to 6.6, and the mid-latitude A index dipped from 15.1 to 5.

Predicted solar flux is 95 on October 13-14; 90 on October 15-21; 85 on October 22-26; 80 on October 27-29; 90 and 95 on October 30-31; 100 on November 1-2; 105 on November 3-7; 110 on November 8-9; 105 and 100 on

November 10-11; 95 on November 12-14; 90 on November 15-17, and 85 on November 18-22.

Predicted planetary A index is 18, 30, 15, 12, and 15 on October 13-17; 10 on October 18-19; 5 on October 20-22; 20 on October 23; 35 on October 24-26; 20 on October 27; 15 on October 28-30; 25 on October 31; 12 on November 1; 5 on November 2-6; 8 on November 7-8; 5, 12, and 15 on November 9-11; 12, 20, and 8 on November 12-14; 5 on November 15-18; 20 on November 19, and 30 on November 20-22.

Sunspot numbers for October 6 through 12 were 55, 50, 62, 58, 64, 56, and 40, with a mean of 55. The 10.7 centimeter flux was 101.5, 104.2, 104.3, 104.5, 102, 99.2, and 97.6, with a mean of 101.9. Estimated planetary A indices were 6, 6, 8, 5, 11, 4, and 6, with a mean of 6.6. Estimated mid-latitude A indices were 4, 5, 7, 4, 7, 3, and 5, with a mean of 5.

Upcoming ARRL Section, State, and Division Conventions

- October 13-15 -- [Microwave Update Conference](#), St Louis, Missouri
- October 14-16 -- [Pacific Division Convention](#), San Ramon, California
- October 16 -- [Connecticut State Convention](#), Meriden, Connecticut

- October 21-22 -- [Arizona State Convention](#), Maricopa, Arizona
- October 21-22 -- [Florida State Convention](#), Melbourne, Florida
- October 22 -- [Wisconsin ARES/RACES Conference](#), Wisconsin Rapids, Wisconsin
- November 5 -- [TechFest Convention](#), Lakewood, Colorado
- November 5-6 -- [Georgia State Convention](#), Lawrenceville, Georgia
- November 12-13 -- [Indiana State Convention](#), Fort Wayne, Indiana
- November 19 -- [Alabama State Convention](#), Montgomery, Alabama
- December 9-10 -- [West Central Florida Section Convention](#), Plant City, Florida

Find conventions and hamfests [in your area](#).

Just Ahead in Radiosport

- October 14 -- MCG Autumn Sprint (CW, phone)
- October 15 -- Feld Hell Sprint
- October 15 -- Iowa QSO Party (CW, phone, digital)
- October 15-16 -- JARTS WW RTTY Contest
- October 15-16 -- 10-10 International Fall Contest (CW)

- October 15-16 -- New York QSO Party (CW, phone, digital)
- October 15-16 -- Worked All Germany Contest (CW, phone)
- October 15-16 -- South Dakota QSO Party (CW, phone, digital)
- October 16 -- Asia-Pacific Fall Sprint (CW)
- October 16 -- RSGB RoLo (CW)
- October 16-17 -- Illinois QSO Party (CW, phone, digital)
- October 17 -- Run for the Bacon QRP Contest (CW)
- October 17-18 -- Telephone Pioneers QSO Party (CW, phone, digital)
- October 17-21 -- [ARRL School Club Roundup](#) (CW, phone)

See the [ARRL Contest Calendar](#) for more information.