



September, 2019
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<http://www.w1mv.org>



<https://www.facebook.com/w1mvmara/>



<https://twitter.com/search?q=Massasoit%20Amateur%20Radio%20Association&src=typd>

Next meeting is October 15, 2019 at 6:30am at the Bridgewater Public Library in Bridgewater Center. Talk-in is on 147.180+

Membership

The website has been updated with our current roster of paid members. If there are corrections, please drop an email to maranews@w1mv.org

Presidents Notes

MARA Facebook page: Our Massasoit Amateur Radio Association Facebook page with club events, meetings, photos, etc. are occasionally updated so that it may be another resource for us on which to spark interest in our club, amateur radio and keep members informed of what we are doing outside of our club meetings and in our community. If you go to the "about" tab on our page you can find our <http://www.w1mv.org/> web page for our present and past newsletters and other club information. Please send Phil N1XTB n1xtb@powersrvcs.com or Denise KC1CFO denigs1@aol.com any articles or photos you would like to see in our MARA newsletter, W1MV-MARA Website and Facebook page. Jeff N1ZZN has created a link to twitter to help get the word out even more!

Secretary's Notes - MARA Meeting 8-20-2019 - Wendy White-KC1GTR

Open: Denise Sisson called the meeting to order at 7:20pm.

Attendance: 6 were present including elected officers.

President ~~WA1BEE~~ Allen Hiltz **Vice President** ~~N1ZZN~~ Jeff Lehmann

Secretary - KC1GTR - Wendy White **Treasurer** - N1XTB - Phil McNamara

KC1CFO - Denise Sisson
KC1JDN - Philip McNamara

N1RTS - Robert Sisson
KB1TEE - Rick Emord



Secretary Notes - KC1GTR - Wendy White

Motion to accept the July 2019 MARA Secretary's report was made by Rick KB1TEE and seconded by Philip KC1JDN. All in favor, 0 opposed.

Club Treasurer - Phil N1XTB, presented rough estimate of funds relatively unchanged from last month. Electric bill was higher due to the AC. Motion to accept the report was made by KC1JDN - Philip and seconded by KB1TEE - Rick. All in favor, 0 opposed.

Reminder – Basic Electronics class will be held by Ross in Whitman.

We need 12V Deep Cycle Batteries – sealed. Phil N1XTB to email Rick KB1TEE to see what they can come up with.

Jeff – N1ZZN is still looking for a 3D Amplifier.

Reminders: Rick – KB1TEE - Boxboro September 7th & 8th. Sept 14th Military Truck Day, RI. Sept 18th Wings of Freedom Tour. Sept 21st 8:00AM to 4:00pm - is the Birthday Celebration in the wardroom annex in the Battleship Cove. October 11th-12th – Nearfest. Dec 7th USS Wisconsin – N4W1S will be on the air – remembrance of Pearl Harbor

Wendy – KC1GTR, asked if anyone had any further business to discuss, all said no, she closed the meeting at 7:50pm.

The K7RA Solar Update

The K7RA Solar Update

09/13/2019

No sunspots this week. Average daily sunspot numbers declined from 3.4 to zero. At the same time, average daily solar flux rose from 67.4 to 69.4.

Geomagnetic activity quieted, with average daily planetary A index declining from 19.9 to 8.9, while average daily mid-latitude A index went from 16.7 to 7.7.

Predicted solar flux is 68 on September 13-22, 69 on September 23 through October 5, 68 on October 6-19, 69 on October 20-24, 68 on October 25 and 69 on October 26-27.

Predicted planetary A index is 5 on September 13-22, 8 on September 23, 5 on September 24-25, then 10, 35, 45, 20 and 10 on September 26-30, then 8, 10 and 8 on October 1-3, 5 on October 4-19, 8 on October 20, 5 on October 21-22, then 8, 25, 30, 18 and 8 on October 23-27.

Geomagnetic activity forecast for the period September 13 until October 9, 2019 from F.K. Janda, OK1HH.



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Geomagnetic field will be

Quiet on: September 14-16, 20 (-21,) November 8-9

Quiet to unsettled on: September 13, 17-19, 22, (24,) November 4-7

Quiet to active on: September 23, 25, 30, November 1-3

Unsettled to active on: September (26)

Active to disturbed: September (27-29)

Solar wind will intensify on: September 16, (24-27,) 28-30. October 1 (-4, 7-9)

-Parenthesis means lower probability of activity enhancement.

-The predictability of changes remains lower at present.

Jon Jones, N0JK, wrote: "There was some sporadic-E skip on 6 meters September 1 from the Midwest to Mexico to W6 and W7. From Kansas, I worked XE2OR in Mexico, and several stations in Arizona and California.

"On September 7, stations in New England worked the Gulf Coast. The Es may have been associated with active geomagnetic field conditions."

Ken Brown, N4SO, of Grand Bay, Alabama reports on his recent FT8 contacts on 17 and 40 meters: "Seventeen meters remains stable and a very good daylight band for DX. Here is a sample of contacts on the FT8 digital mode.

18.100 FT8 Sept. 11

135800 -15 0.1 1795 N4SO SP9DWT RR73 (Poland)

170830 -17 0.3 1278 N4SO 5B4ALJ RR73 (Mike in Cyprus)

170900 -16 0.4 779 CQ AL ON5CD JO20 Belgium (Note calling CQ for Alabama.

171130 -11 0.4 779 N4SO ON5CD RR73

171700 -16 0.2 1676 CQ MM0CEZ IO75 Scotland

"Forty meters remains an excellent band for DX contacts during the night with a world-wide range of countries on the FT8 digital mode:

7.074 FT8 Sept. 9

131415 -1 0.5 1705 CQ KH2L QK23 Guam

132945 -9 0.1 2340 N4SO KH2L R-23

133000 Tx 2378 KH2L N4SO RR73"

Mike, K6THZ, in Santa Clara, California reports unexpected propagation on 15 meters via FT8 late at night, including a QSO with Norway.

If you would like to make a comment or have a tip for our readers, email me at k7ra@arrrl.net.



For more information concerning radio propagation, see the ARRL Technical Information Service at <http://arrrl.org/propagation-of-rf-signals>. For an explanation of numbers used in this bulletin, see <http://arrrl.org/the-sun-the-earth-the-ionosphere>.

An archive of past propagation bulletins is at <http://arrrl.org/w1law-bulletins-archive-propagation>. More good information and tutorials on propagation are at <http://k9la.us/>.

Monthly propagation charts between four USA regions and twelve overseas locations are at <http://arrrl.org/propagation>.

Instructions for starting or ending email distribution of ARRL bulletins are at <http://arrrl.org/bulletins>.

Sunspot numbers for September 5 through 11, 2019 were 0, 0, 0, 0, 0, 0, and 0, with a mean of 0. 10.7 cm flux was 68.3, 68.9, 73.9, 67.5, 68.8, 70, and 68.1, with a mean of 69.4. Estimated planetary A indices were 14, 8, 7, 10, 14, 4, and 5, with a mean of 8.9. Middle latitude A index was 11, 9, 6, 9, 11, 4, and 4, with a mean of 7.7.

New England Area Ham - - - Electronic Flea Market DATES 2019

New England Area Ham - Electronic Flea Market

All events are Ham Radio/ Electronic related except *** 2019

		Contact	Source
Sept 7th Windsor CT VR+CMus8	Antique	John	860 673 0518 +
Sept 28th Brookline NH NEARC	Antique		603 772 7516 +
Sept 15th Cambridge MA	FleaMrkt-MIT	Mitch	617 253 3776 F+
Oct 6th Queens NY HOSARC	HOS	Stephen WB2KDG	718 898 5599 +
Oct 11th & 12 Deerfield NH NEARfest XXVI	FG	Mike K1TWF	978 250 1235 +
Oct 20th Cambridge MA	FleaMrkt-MIT	Mitch	617 253 3776 F+
Oct 26th Gails Ferry TriCity ARC	Auction	Tim KC1TWR	860 460 7360 +
Oct 27th Hicksville NY LIMARC	LevitHall	Richard K2KNB	516 694 4937 A+
Dec 7th Windsor CT VR+CMus8	Antique	John	860 673 0518 +

HAM RADIO LOCAL AREA NETS

Any additions or corrections, contact John – N1UMJ at: N1UMJ@arrrl.net.

All Frequencies are in MHz and 6 Meters (50.0 MHz and up.) are FM Mode unless otherwise noted.

Sunday:

8:30 AM WA1NPO – WARPSN Net, Whitman ARC Rptr, 147.225 +, PL 67.0

8:45 AM New England phone net, 3.945 +/- LSB

Daily:

7:00 PM NE Cracker Barrel Net, Matt – W1AEM, NCO, 3.921.00 MHz LSB Pilgrim Amateur Wireless Assoc. 10 Meter Net

7:00 PM 28.375.0 USB Cape & Island Traffic Net, Mon. Tue. Thur.



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- 7:00 PM Plymouth N1ZIZ Rptr, 146.685 – PL 131.8
7:30 PM Falmouth N1YHS Rptr, 147.375 + PL 110.9 Genesis ARC CW Training Net
8:00 PM Eastern MA 2 Mtr Traffic Net, Boston W1BOS Rptr, 145.230 – PL 88.5
8:00 PM Norfolk County Radio Association Net, , Walpole Rptr, 146.895 – PL 123.0
- Monday:
6:00 AM Cape and Islands Weather Net, M-S, Dennis K1PBO Rptr, 146.955 – PL 88.5
8:00 PM Fairhaven Weather Net, SEMARA Rptr, 147.000 + PL 67.0
8:00 PM Norfolk County Emergency Preparedness Net, Walpole Rptr, 146.895 – PL 123.0
8:30 PM New England DMR net, DMR-MARC repeaters talk group 3181 New England
Falmouth ARA Net, Falmouth K1RK Rptr, 146.655 – PL 88.5
9:00 PM Boston ARC Rag Chew Net, Boston W1BOS Rptr, 145.230 – PL 88.5
- Tuesday:
7:30 PM Plymouth N1ZIZ Rptr, 146.685 – PL 131.8
8:00 PM Fairhaven Weather Net, SEMARA Rptr, 147.000 + PL 67.0
8:00 PM Massasoit ARA Net, , Bridgewater W1MV Rptr, 147.180 + PL 67.0 (Except 3rd
Tue!) Genesis ARC 2 Mtr Rag-Chew Net,
8:00 PM Norwood Amateur Radio Club Net, Norwood Rptr, 147.210 + PL 100.0 220 MHz
Day! Try to find a 220 Repeater near you and give a call out!
- Wednesday:
7:00 PM Blackstone Valley ARC, 2 Mtr Simplex Net, 146.565
8:00 PM Cape and Islands ARES Net, Dennis K1PBO Rptr, 146.955 – PL 88.5
8:00 PM Fairhaven Weather Net, SEMARA Rptr, 147.000 + PL 67.0
8:00 PM Whitman ARC 10 Meter Rag-Chew Net, 28.333.0 USB - Except 1st Wed!
9:00 PM Waltham Wranglers Swap Net., Waltham W1MHL Rptr , 146.64 – PL 136.5
- Thursday:
7:00 PM Genesis ARC CW Training Net, Plymouth N1ZIZ Rptr, 146.685 – PL 131.8 10 Mtr
8:00 PM Fairhaven Weather Net, SEMARA Rptr, 147.000 + PL 67.0
8:00 PM General Class Rag-Chew Net, 29.470.0 FM
8:30 PM Sturdy Mem. Hosp. ARC ARES Practice Net, K1SMH Rptr, 147.195 + PL 127.3
900 MHz Day! Try to find a 900 Repeater near you and give a call out!
- Friday:
8:00 PM Fairhaven Weather Net, SEMARA Rptr, 147.000 + PL 67.0
- Saturday:
8:00 PM South Shore Skywarn Net, Bridgewater W1MV Rptr, 147.180 + PL 67.0

VKEMCOMM Echolink Conference node: 270177/IRLP 9508 (due to *WX-TALK* Echolink
conference node: 7203/IRLP 9219 outage) Refer to: <http://www.voipwx.net/>

Massasoit Amateur Radio Association Executive Board

President - Allen Hiltz - WA1BEE
Vice President Jeff Lehmann - N1ZZN
Secretary Wendy White – KC1GTR
Treasurer: Phil McNamara N1XTB
Call Sign Trustee: Phil McNamara N1XTB



2M Repeater 147.180+ (Tone 67.0)
440 Repeater 444.550+ (Tone 88.5)
APRS Node Node 144.39 W1MV-1
Packet BBS 145.09 N1XTB-4
Packet Node Brockton 145.09 W1JOE-7 (BROCK)
MARA Web page <http://www.w1mv.org/>
Facebook <https://www.facebook.com/w1mvmarakc1gtr.mara@gmail.com>
Newsletter Editor kc1gtr.mara@gmail.com
ARC Web Page <http://www.wa1npo.org>
Qsl via www.eqsl.cc
Skywarn <http://wx1box.org> and www.powersrvcs.org/w1gmf/skywarn.htm

Mailing Address P.O. Box 428 Bridgewater, MA 02324

Monthly meetings are held the 3rd Tuesday of each month at 6:30PM at the Bridgewater Public Library in Bridgewater Center. Talk-in-is on 147.180+

Our **Meetings-On-The-Air** are held all other Tuesday evenings at 8PM on 147.180+ and includes the Westlink News Report with the latest news about happenings in the world of Amateur Radio.

The **South Shore Skywarn Net** is held every Saturday evening at 8PM local time on 147.180+ and is open to all hams.

VE Exams are held the 2nd Saturday of every month, in Braintree contact Steve Cohen, W1OD via email w1od@arrl.net. Walk-ins are no longer permitted. We will be hosting VE exams at 8:45 at the Watson building. If you know of anyone planning to take an exam, please have them drop a note to Steve to confirm a reservation.

<http://www.hamradiolicenseexam.com/index.html>

In the News

Courtesy ARRL

France Stands its Ground on 144 – 146 MHz Aeronautical Mobile Sharing Proposal



MARANews



08/24/2019

A French “annex” to its proposal to have the Aeronautical Mobile Service (AMS) share 144 – 146 with Amateur Radio doubles down on that country’s determination to secure AMS access to that spectrum, although no longer on a primary basis. The annex was submitted ahead of a European Conference of Telecommunications and Postal Administrations (CEPT) Electronic Communications Committee (ECC) Conference Preparatory Group (CPG) meeting that gets under way on August 26 in Turkey. The meeting will consider CEPT ECC positions for World Radiocommunication Conference 2019 this fall. In the annex, France counters contrary International Amateur Radio Union (IARU) assertions and insists that spectrum sharing is possible.

“France recognizes the wide range of amateur applications hosted by the 144 – 146 MHz band,” the French annex document said. “The band will remain available for all these applications after WRC-23. However, a clear vision of the band segmentation per application and associated occupancy rates will be necessary for the sharing and compatibility studies carried on during the WRC-23 preparation cycle. Such studies are essential for assessing the possibilities of frequency sharing and establishing, where appropriate, the conditions that will ensure the continuity of operation and the protection of existing services.”

Since France submitted its initial proposal in June, the IARU and its Region 1 (Europe, Africa, and the Middle East) member-societies have made the matter a top priority. If the French proposal gets a thumbs up by at least 10 CEPT countries at the CPG meeting — with not more than 6 opposing — the proposal could appear on the agendas of WRC-19 and WRC-23, where a final decision will be made.

According to IARU President Tim Ellam, VE6SH/G4HUA, the French proposal provides no rationale for including the amateur band in the proposed spectrum study, and that IARU believes sharing with airborne systems would be extremely challenging and lead to constraints on the development of the Amateur and Amateur Satellite services.

“If accepted as a WRC-23 Agenda Item, this proposal would require *4 years* of studies by administrations,” Ellam has stressed. “Considering the challenges of sharing spectrum with aeronautical systems, it seems inevitable that the conclusion of such studies would be that sharing with a widely used part of the amateur spectrum presents too many problems to be viable.”

In its own submission for the August CPG meeting, IARU contends that basic technical studies “show that sharing of the current Amateur Service allocation with non-safety-related [AMS] radio systems is not possible without a significant likelihood of mutual interference occurring.” IARU calls the proposal “unsound.”

“There is no need for a lengthy WRC study cycle to determine this,” IARU said, asking that 144 – 146 be withdrawn from the French WRC-23 non-safety AMS proposal.

IARU asserts that suitable alternative spectrum exists in the VHF range, but France said this view “disregards the fact that the effectiveness of studied sharing opportunities will depend upon the characteristics of the incumbent services.” France went on to say, “Use of techniques like dynamic frequency assignment, antenna treatment, power control, duty cycle control, [and] spread spectrum may be considered.”

France said the objective of studies required during the WRC-23 preparation cycle “will not be to modify the existing primary amateur allocation in the band 144 – 146 MHz but to study possible sharing of the band while ensuring the protection of amateur usage.”



At this point, the French proposal remains an ITU Region 1 matter, and action during the CEPT CPG meeting August 26 – 30 will determine whether it gains traction on the world stage.

Amateur Radio Digital Communications Announces Grant to ARISS

09/13/2019

Amateur Radio Digital Communications ([ARDC](#)), which manages [AMPRNet](#), has announced what's being called "a very generous grant" to Amateur Radio on the International Space Station ([ARISS](#)) to help fund its next-generation Amateur Radio system on the ISS. The dollar figure was not made public. In July, ARDC announced a philanthropic initiative to provide monetary grants to organizations, groups, projects, and scholarships that have significant potential to advance the state of the art of Amateur Radio and of digital communications.

Late that month, ARDC announced the sale of some 4 million unused consecutive AMPRNet internet addresses to establish a program of grants and scholarships program in support of communications and networking research — with a strong emphasis on Amateur Radio. The sale to what ARDC called "a very big company with a significant internet presence" fetched "several million dollars." A precise figure was not specified, "to avoid adversely influencing others buying and selling addresses," ARDC said. The addresses sold came out of a block of some 16 million internet addresses obtained nearly 40 years ago and "devoted exclusively to Amateur Radio" for TCP/IP ham radio networking.

In its funding request, ARISS said it was "in critical need of an infrastructure update" to ensure that its primary program that lets students speak to ISS crew members via Amateur Radio can continue. ARISS said its next-generation interoperable radio system (IORS) will "enable new, exciting capabilities for hams, students, and the general public." Enhancements would include:

- New Amateur Radio communication and experimentation capabilities, including an enhanced voice repeater and updated digital packet radio
- APRS capability
- Two-way slow-scan TV (SSTV) in both the US and Russian ISS segments
- A new multi-voltage power supply that will support present and future Amateur Radio capabilities and enable wireless experimentation

ARISS pointed out in its application that pre-launch certification requires it to build 10 next-generation radio systems to support hardware development, on-orbit operations, training, and long-term maintenance. ARISS said the IORS successfully completed a battery of rigorous testing that NASA requires as part of final pre-launch and operation hardware certification. Final flight safety certification in preparation for launch is now under way, and ARISS hopes to have the IORS ready to send to the station by year's end.

Announcement of the grant award to ARISS came via [AMSAT](#), and both organizations extended their gratitude to ARDC for its generosity. The grant to ARISS is the first since ARDC announced its grant program earlier this summer.



Future Events

Rick – KB1TEE said that Sept 21st is the Birthday Celebration in the wardroom annex in the Battleship Cove.

June 2020, Sota, Summits on The Air – Rick – KB1TEE is looking into this.