



June 2022
Volume 60 Issue 6

 <http://www.w1mv.org>  <https://www.facebook.com/w1mvmar/>
 <https://twitter.com/search?q=Massasoit%20Amateur%20Radio%20Association&src=typd>

Next meeting is July 19, 2022 at 7:00pm Bridgewater EOC

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 Wendy KC1GTR kc1gtr.mara@gmail.com any articles or photos you would like to see in our MARA newsletter, W1MV-MARA Website and Facebook page. Jeff - AJ1L has created a link to twitter to help get the word out even more!

Secretary's Notes - MARA Meeting 05/17/2022

Meeting was held at the Bridgewater EOC

Open: WA1BEE - Allen Hiltz called the meeting to order at 1800 with 4 members present.

Attendance: Allen - WA1BEE, John - N1BSO, Loren - N1QI, KC1RAB Ray Ball

President - Allen Hiltz - WA1BEE **Vice President** - John - N1BSO

Secretary - Tom Luckman - WA1TOM **Treasurer** - Phil McNamara - N1XTB

Secretary Notes - Allen - WA1BEE - gave April report, it was read and accepted.

Treasurer Report - Allen - WA1BEE - gave the treasures report, it was read and accepted.

Repeater Report - N1bso seems everything is working

New Members - no new members this month.



Current Business – More discussion on Club Shirts – Allen – WA1BEE contacted Abra Cadabra about the button down shirts and it seems that there is a supply problem in RED.

Small discussion on winlink net. All in attendance thought it is a good idea. Win-Link.org

Allen – WA1BEE closed at the meeting at 1845.

HAM RADIO LOCAL AREA NETS

Any additions or corrections contact John – N1UMJ at: N1UMJ@arrl.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.

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 Prac Net, K1SMH Rptr, 147.195+ PL 127.3 900 MHz

Friday:

8:00 PM Fairhaven Weather Net, SEMARA Rptr, 147.000 + PL 67.0
8:00 PM Great Hill Swap Net, K1USN, 145.390 and Echollink/Irpl 9127

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 John L – N1BSO
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/w1mvmaraf/>
Newsletter Editor kc1gtr.mara@gmail.com
ARC Web Page <http://www.walnpo.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, for time being, Tuesday Night Zoom meeting will at 7:00pm.

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>

(Courtesy of ARRL Newsletter) The K7RA Solar Update

06/17/2022

Solar activity increased this week, which we were happy to see, with average daily sunspot number rising from 44.4 last week to 74.3 during this reporting week, June 9-15. Sunspot numbers rose all week, starting at 17 on Thursday, June 9 to 149 on Wednesday, June 15.

Average daily 10.7 cm solar flux increased from 99.4 to 123.9. Solar flux peaked at 145.5 on Tuesday, June 14, but then on Thursday the noon daily reading at the Penticton observatory was 146.7, an increase from 140 the day before. Also on Thursday, daily sunspot number increased from 149 on Wednesday to 159.

The Penticton observatory does three daily readings of solar flux, but it is the local noon reading that is the official solar flux reading of the day, and the one we report here.

You can see the readings at <https://bit.ly/3b5OBNk> .

The solar flux outlook appears promising for the next few days. The June 16, 2022 forecast from the USAF Space Weather Squadron shows solar flux at 146 on June 17-18, then 144, 140, and 138 on June 19-21, 136 on June 22-24, 100 on June 25 through July 5, then 105, 110 and 115 on July 6-8, 120 on July 9-11, 125 on July 12-16, 120 on July 17-18, 110 on July 19 and 100 on July 20-31.

Predicted planetary A index, a measure of geomagnetic stability, is 8 on June 17-18, 5 on June 19-24, then 10, and 8 on June 25-26, 5 on June 27 through July 7, 8 on July 8-10, then 5, 8, 12, 10 and 8 on July 11-15, then 5 on July 16-19, then 12, 18, 10 and 8 on July 20-23, and 5 through the end of the month.



You can find daily updates for predicted solar flux and A index at <https://services.swpc.noaa.gov/text/45-day-ap-forecast.txt> . Updates are posted every afternoon, North America time.

F.K. Janda, OK1HH wrote:

"Solar activity grew. The most significant phenomenon was observed in the southeast quadrant of the solar disk - a long-duration (LDE) M3/1n solar flare, observed at 0407 UTC on June 13, accompanied by type-II and IV radio emissions and radio bursts.

"The associated CME was visible off the east. The arrival of the ejected cloud of particles on Earth was calculated to the afternoon of June 15.

"Interplanetary magnetic field strength increased at 0400 UTC on June 15. Solar wind speed was about 500 km/s until shock arrival, when it escalated to 550 km/s and eventually peaked at 624 km/s at 0556 UTC. The geomagnetic field was quiet to active, with an escalation to G1 (Minor) storm levels during the 1200-1500 UTC in reaction to CME effects.

"The MUF increase caused by the storm was registered on June 15 at two intervals, first after 0600 UTC and second before 1200 UTC. In the afternoon to evening a decrease in MUF followed, an increase in the decline and an overall worsening.

"Solar activity will remain elevated for several days, which will help conditions return to above average levels. However, in the Earth's northern hemisphere, sporadic-E layer will cause very irregular development, from increased attenuation to more frequent opening of the shortest shortwave bands."

Here are some solar flare updates:

<https://bit.ly/3xvycJO>

<https://bit.ly/3O0re6B>

Thanks to K5EM of the Western Washington DX Club for this study of sporadic-E:

<https://bit.ly/39zqIxx>

Here is some information about the Maunder Minimum:

<https://bit.ly/3QubESn>

Go to <https://www.spaceweather.com> and look for an article that appeared June 15-16 titled "Mapping a Magnetic Superstorm."

Look for this fascinating map:



<https://www.spaceweather.com/images2022/12jun22/resistivity.jpg> .

It purports to show which areas are more vulnerable to effects from geomagnetic storms due to variations in ground and infrastructure conductivity.

Next weekend is ARRL Field Day, a favorite operating activity for many of us. The current outlook shows modest solar flux and perhaps slightly elevated geomagnetic activity. Predicted solar flux for June 24-26 is 136, 100 and 100, with planetary A index at 5, 10 and 8. Field Day starts on Saturday, but it is worth looking at predictions for Friday.

Look for an update in next week's Propagation Forecast Bulletin ARLP025. Field Day rules are at, <http://www.arrl.org/field-day> .

A few days ago, Dr. Tamitha Skov, WX6SWW, posted this:

<https://youtu.be/pv4QmVfz95A>

If you would like to make a comment or have a tip for our readers, please email the author at, k7ra@arrl.net.

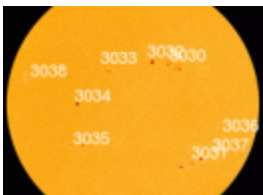
For more information concerning shortwave radio propagation, see <http://www.arrl.org/propagation> and the ARRL Technical Information Service at <http://arrl.org/propagation-of-rf-signals>. For an explanation of numbers used in this bulletin, see <http://arrl.org/the-sun-the-earth-the-ionosphere> .

An archive of past propagation bulletins is at <http://arrl.org/w1aw-bulletins-archive-propagation>. More good information and tutorials on propagation are at <http://k9la.us/> .

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

Sunspot numbers for June 9 through 15, 2022 were 17, 33, 41, 63, 96,121, and 149, with a mean of 74.3. 10.7 cm flux was 106.4, 110.5, 112.1, 121.3, 131.5, 145.5, and 140, with a mean of 123.9. Estimated planetary A indices were 5, 5, 8, 9, 13, 8, and 20, with a mean of 9.7. Middle latitude A index was 6, 6, 10, 12, 14, 10, and 18, with a mean of 10.9.

[Photo Gallery](#)





Ham Radio Field Day – June 25-26, 2022

HAM RADIO FIELD DAY

DOWNLOADS: 2022 PRESS RELEASE and INFO FLYER:

[Field Day Public Info Flyer](#) / [Media formatted release](#) / [Photo1](#) / [Photo2](#) / [Photo3](#) / [Photo4](#)

2022 ARRL FIELD DAY EVENT:

Open to all licensed amateur radio operators worldwide, [ARRL Field Day](#) is both a contest and a practice exercise of radio skills. Every June, more than 40,000 hams throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's science, skill and service to our communities and our nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event. Field Day has been an annual event since 1933, and remains the most popular event in ham radio.

WHAT:

Family Friendly Event! Ham Radio Field Day has Educational Demonstrations, Maker Activities, Telescopes (weather permitting). Hosted by members of Sci-Tech Amateur Radio Society (STARS), New England Amateur Radio (NEAR), and New England Sci-Tech (NEST).

WHEN:

2022, Sat June 25, 2pm to Sun, June 26, 2pm.

Public is welcome: Sat 2 pm – 5 pm and Sun 10 am to 2 pm for tours, soldering workshop, maker activities, hidden transmitter hunts, and license testing. (License exam is 7 pm Saturday)

WHERE:

New England Sci-Tech, 16 Tech Circle, Natick. (Field Day runs outside in vans and tents running off alternative power to simulate emergency conditions. However, the building is open for tours, restrooms, maker activities, etc.)

WHO MAY PARTICIPATE:

Members of the general public, radio amateurs, scouts, and their friends and families are welcome to participate. You don't need a radio license to participate, as you can operate with one of the club's General or Extra class licensees as the control operator. On-site training will be provided.

Sign up using the form below to let us know when you will be participating and how many in your group.

FIELD DAY SCHEDULE:

Saturday

10:00 am – Field Day helpers set up

12:00 pm – Lunch for members and set-up participants

2:00 pm – Doors open to public. Radio Field Day begins.

2:00-5:00 pm – Public Visiting Hours, for tours, soldering workshop, maker activities, hidden transmitter hunts

3:00 pm – Presentation: *How to become a ham radio operator*



6:00 pm – Group Photo on the stairs in front of GOTA Tent
6:00 pm – Dinner for members and non-public participants
7:00 pm – Radio License Exam Session
7:30 pm – Tutorial on how to do HF Contesting
9:00 pm – non-overnight participants leave; building closes

Sunday

7:00 am – Breakfast for members and non-public participants
9:00 am-noon – Yard Sale items available and on display
10:00 am-2 pm – Public Visiting Hours, for tours, soldering workshop, hidden transmitter hunts
12:00 pm – Lunch for members and non-public participants
1:00 pm – Preliminary cleanup begins
2:00 pm – Radio Field Day ends; full cleanup begins
2:00-4:00 pm – NEST Open House
4:00 pm – Cleanup ends
4:00 pm – NEST Leadership Team Meeting

FIELD DAY ACTIVITIES:

Maker Activities (Sat 2-5 pm, Sun 10am-noon)

For children of members and visitors, there will be a number of different hands-on activities led by volunteer helpers through the afternoon.

Yard Sale (Sunday 9:00 am to noon)

New England Sci-Tech is grateful for many donations but needs to make room. All sales go to development and enhancement of youth programs and curriculum. [Check out the Yard Sale List](#) of what we will have for sale!

How to become a ham radio operator, (20 min plus Q&A, Sat at 3 pm)

Presented by some of our youth members, this talk for the general public will walk you through the steps to getting your ham radio license. This is a great intro for scouts, scout masters, and teachers, as well as the general public.

Ham Radio Movie Marathon (Sat 2–5 pm, Sun 10am–2pm)

Selected publicly available movies (with screening permissions) that feature amateur radio. Shows are free and open to the public.

MEALS:

Provided by New England Sci-Tech. Meals will be provided for radio operators, club members, and any non-public participants of Field Day. A small charge per meal will be requested. Please bring cash with you as change and credit may not be available.



FIELD DAY GOALS:



- Emergency Preparedness Exercise
- Demonstration and utilization of ICS
- Getting new, inactive, and potential hams on the air
- Presenting amateur radio to the public, and to school students
- Demonstrating amateur radio's emergency capabilities to area EMAs
- Education in the Science, Technology, Engineering, and Math (STEM) fields
- Having fun

Basic Operational Details:

- Class 3A
 - Two Phone HF stations (40, 20)
 - One Phone/CW/Digital HF (80/15/10 Phone, 80-10 digital)
 - One VHF station (6, 2, .70)
 - GOTA station (NE1AR, 40/20)
- Operation from emergency power – generators & solar charged batteries
- Computer logging with N1MM+ Logger; training available on-site & possibly in advance
- Group meals – per person per meal collection to cover costs
- Guide to [Competitive Field Day Operating](#), by Jeremy Breef-Pilz

For rules and other information about the ARRL Field Day, [click here](#).

[Ham Radio News from the Google World wide Search Engine!](#)

[HF Radio.org News](#)

[QRZ.com News Headlines](#)



This Week in Ham Radio
From Twiar.org
(RSS FEED) (Audio download)

Ham News from England
From Southgate ARC

Amateur Radio Newline

R.A.I.N. Report (Audio)

8 Satellite's for Amateur Radio. Coordinated by IARU Satellite Frequency Coordination Panel CubeSats being deployed are:

- GuaraniSat-1 (BIRDS-4)
- RSP-01
- TAUSAT-1
- Maya-2 (BIRDS-4)
- WARP-01 • OPUSAT-II
- STARS-EC
- Tsuru BIRDS-4)
- OPUSAT-II

BIRDS-4 satellites are carrying digipeaters and TAUSAT-1 has an FM transponder. Further information including the IARU coordinated frequencies are at <http://amsat.org.uk/iaru/>