



September, 2018  
Volume 56 Issue 09

# MARANews



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**Next meeting September 18, 2018 at 6:30pm at the Bridgewater Public Library**

**Cal from HRO will be our guest speaker for September**

Our October meeting will be on the 16th 2018 6:30pm at the Bridgewater Public library

## **ATTENTION CLUB MEMBERS**



**Carver Town Hall EOC**

Phil N1XTB reports the exercises for Pilgrim Power Station will be on the following dates.

**September 19, 2018 at 6pm Table top**

**October 10, 2018 Daytime practice exercise**

**November 7, 2018 this is the graded exercise**

We need all members who can make any of these or all of these to come out. The club gets paid per member present. The exercises will be at the Carver town hall EOC please come on out. Parking is the behind the town hall. Times of the October and November exercises will follow later.

Thank you

## Presidents KC1CFO Denise Sisson



### **Presidents Notes from KC1CFO Denise Sisson**

MARA Facebook page: Our Massasoit Amateur Radio Association Facebook page with club events, meetings, photos, etc. is occasionally updated so that it can be another resource for us on which to spark interest of 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 Rick - kb1tee@gmail.com and 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!

Not much to report on the Presidents notes this month. Hoping everyone is well and enjoying the last of the summer.

Looking forward to seeing everyone on Tuesday, September 18, for our monthly meeting.

73 Denise KC1CFO

President-Massasoit Amateur Radio Association



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**Happy Halloween and Happy Fall Harvest**

## **SECRETARY NOTES - MARA MEETING 8/21/18 - ROBERT SISSON N1RTS**

**OPEN:** President Denise KC1CFO opened the meeting at 6:35PM 8/21/18.

**ATTENDANCE:** 8 members were present including 3 elected officers.

KC1CFO Denise Sisson (Pres)	KB1TEE Richard Emord
N1XTB Phil McNamara (Treasurer)	WA1BEE Allen Hiltz
KC1JDL Philip McNamara	N1IQI Loren Pimentel
AG1B Richard Metcalf	KA1YL Connie Frauciosi

### **MEETING MINUTES:**

Motion to accept the July 2018 MARA Secretary's report as published in the 2018 August newsletter was made by Rick KB1TEE, with a second by AG1B Richard motion passed by all attending members, 0 opposed.

Club treasurer Phil N1XTB read the July 2018 treasurers report. Rick KB1TEE made a motion to accept the report as read, with a second by Philip K1JDN, motion passed by all attending members, 0 opposed.

Phil N1XTB mentioned that there would be a couple more training sessions with Entergy, as a way to make money for the treasury. They are planning on permanently closing the power plant in a couple years. Phil will let us know when the next session will be for those who would like to attend.

Phil N1XTB talked about the antenna which has been delivered, dates will be made to have a town official and the climbers ready for the install. The antenna that is up on the tower is no longer working correctly so other plans are being made to transmit the net. The other smaller antenna that is up on the water tower will be replaced also. For now the 147,180 and 444,550 repeaters are linked.

Rick KB1TEE went to the W1NAS South Weymouth Snow Goose event with Patriot squadron members, and shared that they are hoping to move into a new building for a museum to be house possibly a P2 Viking Cock Pit along with other artifacts will be on display, and they are looking for WWI and 1950's radios for display. They are also looking for a tower once the museum is up and running. There is also a two playgrounds for large and small dogs and a playground for children the place is a great walking area.

Sept. 22nd Happy Birthday QSO of the Battleship Massachusetts at Battleship Cove. Rick invites all to come on out and help the NE1PL crew celebrate big Mamie's birthday.

Nearfest is in Oct on the 12th-13th in Deerfield NH.

CLOSE: A motion to adjourn the meeting was made by Phillip- KC1JDN, with a second by Rick KB1TEE. Motion passed by attending club member, Denise KC1CFO closed the meeting at 7:10 pm 8/21/18.

## Hurricane Watch Net Manager: September is Gearing Up to be an Active Month

While the Hurricane Watch Net ([HWN](#)) on September 5 formally secured operations initiated ahead of Tropical Storm Gordon, which had been forecast to become a Category 1 hurricane, the HWN is

keeping close watch on Hurricane Florence, currently a Category 3 storm still out in the Atlantic.

"Computer models are all over the place, but the people of Bermuda should closely monitor the progress of Florence," HWN Manager Bobby Graves, KB5HAV, told ARRL. "Since 2014, the island has been hit by four storms." Graves said the net could soon find itself tracking Helene (now called Invest 92L) and a developing system that could become Isaac.

"Bottom line, September is gearing up to be an active month. I'm just praying these storms remain away from land," Graves said.

As of mid-week, Hurricane Florence was some 1,060 miles east-northeast of the northern Leeward Islands, and about 1,170 miles east-southeast of Bermuda, with maximum sustained winds of 115 MPH. The storm was moving to the northwest at 12 MPH. The National Hurricane Center predicted Florence would turn back toward the northwest early next week. Although it weakened somewhat this week, the storm was predicted to remain a strong hurricane into next week.



**On September 6, Hurricane Florence was still some distance from landfall. [NOAA graphic]**

The HWN had activated on September 4, while Gordon was still a tropical storm. "The net rarely activates for tropical storms, unless they are forecast to become hurricanes prior to landfall or at the request of the forecasters at the National Hurricane Center," Graves explained. Gordon had been forecast to become a Category 1 hurricane prior to landfall. Some Gulf Coast ARES teams activated briefly prior to Gordon's landfall on the Gulf Coast on the evening of September 4 near the Mississippi-Alabama state line. A child was reported to have died as a result of the storm, which is generating flood-causing rainfall as it progresses into Mississippi. The storm also knocked out power for tens of thousands in the region.

"The 2018 Atlantic Basin hurricane season is still young, so please, do not drop your guard," Graves advised. "If you haven't done so already, now would be a good time to review your Family Emergency Plan and your Emergency Supply Checklist. We have links to download both, found in the middle of our website homepage."

## Digital Mobile Radio Hotspots May Be Interfering with Satellite Uplinks, AMSAT Reports

This week, AMSAT News Service (ANS) cited an August 27 report from AMSAT Vice President-Operations Drew Glasbrenner, KO4MA, saying that a digital mobile radio (DMR) signal has been interfering with the AO-92 (Fox-1D) satellite's 435.35 MHz uplink frequency.



Glasbrenner said hotspots, repeaters, terrestrial simplex, and "anything not satellite" should never transmit in the segments 145.8 - 146.0 MHz or 435 - 438 MHz by international band plan.

Well-known satellite enthusiast Patrick Stoddard, WD9EWK/VA7EWK, told ARRL that one DMR hotspot operating on the AO-92 uplink frequency in the St. Louis area has shifted to another frequency. But, he added, "I think there are still issues, since not all hotspots will report their frequencies and positions to websites such as [BrandMeister](http://brandmeister.org) or via APRS, where they appear on other sites such as <http://aprs.fi>."

"There are others surely operating near satellite uplinks," Stoddard added. "For many, the 435 - 438 MHz satellite subband is a big piece of quiet real estate in a busy part of the 70-centimeter band for weak-signal work, repeater links, amateur TV, and other possible uses."

Stoddard points out that FCC Part 97 addresses Amateur Radio operation in these segments, although regulations in many other countries may not be as detailed. §97.3(a)(7) defines auxiliary stations as, "an amateur station, other than in a message forwarding system, that is transmitting communications point-to-point within a system of cooperating amateur stations."

Stoddard said this would include remote bases, EchoLink and IRLP nodes, and hotspots used for digital voice modes, as well as stations using these hotspots and nodes. Auxiliary stations may not transmit in the 145.8 - 146.0 and 435 - 438 MHz satellite subbands (among others in the 2-meter and 70-centimeter amateur bands), per §97.201(b). Further:

- §97.3(a)(40) defines a repeater as, "an amateur station that simultaneously retransmits the transmission of another amateur station on a different channel or channels." Stoddard said that because most hotspots operate on a discrete frequency, they would not qualify as repeaters, even if they operate like a repeater, per §97.205(b).
- §97.101(a) stipulates, "In all respects not specifically covered by FCC Rules, each amateur station must be operated in accordance with good engineering and good amateur practice." Stoddard remarked, "Whether the hotspot is interfering with a satellite downlink in a particular area, or it is interfering with the satellite uplink affecting a much larger area, this would not be good amateur practice."
- In addition to subbands where hotspots are not permitted, Stoddard said, §97.101(b) is also relevant. It states, "Each station licensee and each control operator must cooperate in selecting transmitting channels and in making the most effective use of the Amateur Service frequencies. No frequency will be assigned for the exclusive use of any station."

Stoddard noted that frequencies used by satellites are usually incapable of being changed and are coordinated in advance of launch, while hotspots typically are frequency agile, and the frequencies used by those systems can be changed to avoid potential interference to satellites and other stations. -- *Thanks to AMSAT News Service, Patrick Stoddard, WD9EWK/VA7EWK*





**Global Learn Day on the Air is aiming to shrink the world one contact at a time.** Global Learn Day on the Air ([GLDOTA](#)) is an extension of Global Learn Day, which celebrates learning and encourages everyone to recognize the importance of education. GLDOTA will start at 0001 UTC on October 5 and continue through 2359 UTC on October 8. Individual radio amateurs and clubs are encouraged to exchange contacts with each other and to include children in this learning activity.

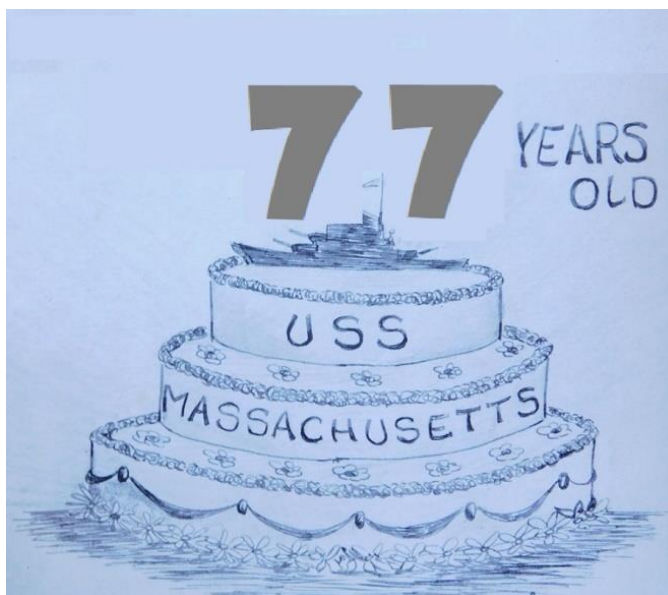
"Each contact during GLDOTA is a celebration, reducing the distance between us as we shrink the planet one contact at a time," the event announcement said. Suggested frequencies are 3.803, 7.187, 14.287, and 21.387 MHz. Contacts via satellite and with the International Space Station are also valid. [Submit](#) CSV or TSV logs in the format <My Call Sign> <Contact Serial Number> <Date> <Time> <Band> <Mode> <Other Station's Call Sign>. -- Thanks to Terry Redding, W6LMJ

**The Amateur Radio Association of the Republic of San Marino** ([ARRSM](#)) has announced a special activity from the Three Towers of San Marino, **September 15 - 16 (24 hours)**. A group of towers located on the three peaks of Monte Titano, they are depicted on both the national flag and coat of arms. The event will take place in conjunction with a civil protection exercise. The standard Three Towers Award is issued to a station submitting proof of contact with all the three towers on at least two bands; the honor roll award requires confirmation of contacts with all three towers on three bands. Stations will be active on 10, 15, 20, and 40 meters (modes not available). Call signs will be T71A (Guaita), T71B (Cesta), and T71C (Montale). All three towers have historic and architectural significance and are UNESCO World Heritage sites. Request QSLs via T70A or via the bureau. Submit award requests directly, including \$15, to PO Box 77, 47890 Republic of San Marino (via Italy).



### **NE1PL on the USS Massachusetts**

The USTNR radio club will be on the USS Massachusetts September 22, 2018 for operations this is in remembrance of the ships BIRTHDAY September 23, 1941. Anyone wishing to come out and see the ship and help us operate come on down check in at the ships store as Ham radio club USTNR NE1PL. We will be on the air from 0900-1500. She will be 77 years young go to the video below if you wish to see her launched <https://www.youtube.com/watch?v=rzxByieHztI>



# NEAR-Fest

New England Amateur Radio Festival

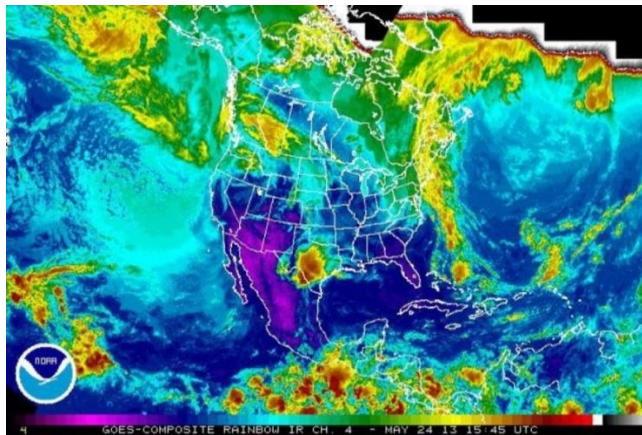
NEAR-Fest XXIV

October 12 & 13, 2018

Deerfield, New Hampshire

## Skywarn net every Saturday night 2000 (8:00) on the 180

Please jump in and give your weather reports on the Skywarn net we meet at 8:00 on 147.180. If you want to be a Net controller contact Denise KC1CFO I am sure he would enjoy the help



## New England Wireless & Steam Museum

**The Original Old Fashioned YANKEE STEAM-UP**

NEW ENGLAND'S OLDEST ENGINE SHOW

**New England Wireless & Steam Museum**

**1300 Frenchtown Road • East Greenwich • RI 02818**

Saturday, 29 September 2018 • 9:00 am – 4:00 pm

Admission: \$15 – \$7 students • Plenty of free parking • Food available



NEW ENGLAND WIRELESS  
AND STEAM MUSEUM

1300 Frenchtown Road • East Greenwich, RI 02818

## **ARRL Headquarters Emergency Response Team Activates for Florence**

The ARRL Headquarters Emergency Response Team activated on September 12, as what the National Hurricane Center ([NHC](#)) is calling "dangerous Hurricane Florence" continued to close in on the southeastern US coast, where it's "expected to bring life-threatening storm surge and rainfall to portions of the Carolinas and Mid-Atlantic states."

ARRL shipped seven [Ham Aid](#) kits to South Carolina by way of Georgia on September 11 to assist with emergency preparedness needs in advance of Hurricane Florence. These kits are the same ones that ARRL volunteers took to Puerto Rico a year ago to assist with disaster communications following Hurricane Maria. ARRL is staging HF and VHF/UHF equipment in the Maryland/Virginia area for deployment locally or farther down the coast

## **The K7RA Solar Update**

Tad Cook, K7RA, Seattle, reports: Sunspot activity returned during the September 6-12 reporting week, with spots on 4 non-consecutive days, September 8 - 9 and 11 - 12. Average daily sunspot numbers increased to 7.6, compared to no spots over the previous 7 days.

Average daily solar flux increased from 67.8 to 68.6, and planetary A index doubled from 6.3 to 12.6, while the mid-latitude A index went from 5.9 to 10.

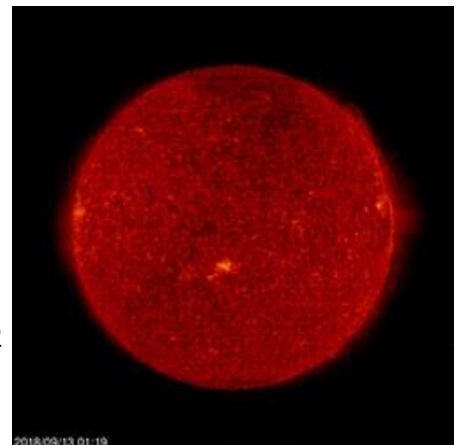
The September 12 forecast predicts solar flux at 70 on September 13 - 14; 68 on September 15 - 22; 67 on September 23 - 24; 68 on September 25 - October 6; 70 on October 7 - 9; 68 on October 10 - 19; 67 on October 20 - 21, and 68 on October 22 - 27.

The same forecast over the same period supposes planetary A index at 12, 8, 5, 10, 8 and 5 on September 13-18; 8, 5, 5, 12, and 8 on September 19 - 23; 5 on September 24 - 30; 8 and 10 on October 1 - 2; 5 on October 3 - 6; 12, 35, 15, 12, 12, 8, 5, 10, and 8 on October 7 - 15; 5 on October 16 - 18; 12 and 8 on October 19 - 20, and 5 on October 21 - 27.

As recently as September 9, the US Air Force predicted a rise of solar flux to 75 on September 17 before dropping below 70, followed by flux values of 70 on October 7 - 9.

Solar forecaster Tamitha Skov, WX6SWW, wrote on September 11 to say, "[W]e did reach G2-level storm conditions. In fact we remained at G2-levels for over 6 hours. This meant emergency communication over the Amateur Radio bands was non-existent. Luckily, it looks like the worst is now over."

Sunspot numbers for September 6 - 12 were 0, 0, 16, 12, 0, 14, and 11, with a mean of 7.6. The 10.7-centimeter flux was 67.4, 67.5, 68.7, 68.4, 69, 69.4, and 69.7, with a mean of 68.6. Estimated planetary A indices were 6, 5, 5, 7, 21, 35, and 9, with a mean of 12.6. Estimated mid-latitude A indices were 5, 5, 5, 6, 15, 24, and 10, with a mean of 10.





## **Just Ahead in Radiosport**

- September 15 -- QRP Afield (CW, phone, digital)
- September 15 -- Wisconsin Parks on the Air (Phone)
- September 15 -- Feld Hell Sprint
- **September 15-16 -- Collegiate QSO Party (CW, phone, digital)**
- **September 15-16 -- ARRL 10 GHz and Up Contest (CW, phone, digital)**
- September 15-16 -- SARL VHF/UHF Digital Contest
- September 15-16 -- Scandinavian Activity Contest, CW
- September 15-16 -- All Africa International DX Contest (CW, phone, digital)
- September 15-16 -- Iowa QSO Party (CW, phone, digital)
- September 15-16 -- New Jersey QSO Party (CW, phone)
- September 15-16 -- New Hampshire QSO Party (CW, phone, digital)
- September 15-16 -- Washington State Salmon Run (CW, phone, digital)
- **September 16 -- North American Sprint, RTTY**
- September 16 -- BARTG Sprint 75 (Digital)
- September 17 -- Run for the Bacon QRP Contest (CW)
- September 17 -- 144 MHz Fall Sprint (CW, phone, digital)
- September 19 -- RSGB 80-Meter Autumn Series, CW
- September 20 -- NAQCC CW Sprint

**SATERN:** The Salvation Army Team Emergency Network ([SATERN](#)) activated for Hurricane Florence from 1700 through 2100 UTC on Thursday, September 13, on 14.265 MHz, with a backup frequency of 14.312 MHz. It will reactivate on Friday and Saturday at about 1600 UTC until propagation no longer supports it or the Net Manager closes the net for the day. A SATERN digital net will open on 14.065 MHz on the same schedule. The SATERN Southern Territory SSB Net will be open from 1300 UTC until 1700 UTC on 7.265 MHz on September 13 - 15.

SATERN may extend its activation depending on reports of major damage, especially to the communications infrastructure; continued significant emergency, priority, or health-and-welfare traffic, as well as reports of an increased need for auxiliary communication. The net's primary mission will be the receipt and delivery of outbound health-and-welfare messages from affected areas. The Salvation Army is beginning to stage personnel and equipment in major deployments to North Carolina and Virginia.

## New England Area Ham - Electronic Flea Market DATES 2018

2018

15 Sept Alexander ME StCVARC @ElSch	Rodger W1LH 207 454 2174 A+
16 September Cambridge MA Flea at MIT Third Sunday April thru October	Mitch 617 253 3776 F
22 Sept Windsor ME AARA @FG	Bill K1NIT 207 512 0312 A+
6 October Brookline NH NEARC antique	603 772 7516 +
6 Oct S Dartmouth MA SEMARA @54 Donald @8A Free	508 997 7070 F+
7 October Queens NY HOSARC @HOS \$5@9 \$10/sp	Stephen WB2KDG 718 898 5599 A+
12-13 Oct Deerfield NH NEARfest XXIV @FG	Mike K1TWF 978 250 1235
21 October Cambridge MA Flea at MIT	Mitch 617 253 3776 F
21 Oct Meriden CT Nutmeg	John N1GNV 203 440 4973 A+
27 Oct Gales Ferry CT TCARC @FireCo auction	Tom WA2RYV 860 464 6555
28 Oct Hicksville NY LIMARC @LevitHall	Richard K2KNB 516 694 4937 A+
28 Oct Fishkill NY MtBeacon @DCE	Adam AE2AN 845 849 3666 A+
3 Nov Bourne MA FARA @UpperCC VoTech \$5@9 \$10/S@7	Ralph N1YHS 508 548 0422
1 Dec Windsor CT VR+C Mus 115 Pierson LN @8AM Indoor	John 860 673 0518 +

2019

16 Feb Marlboro MA AARC @MidSch	Timothy KA1OS 508 919 6136 A+
23 Feb S Burlington VT RAoNV @HI I89x14 \$9@8 \$15@6	Mitch W1SJ 802 879 6589
9 Mar Chicopee MA MtTomARA @Castle \$5@8:30 S@6:30	Brian N1FI 860 478 6790 +
29,30 Mar Lewiston ME AARC ME Conv @Ramada @8	Ivan N1OXA 207 784 0350 +
7 April Framingham MA FARA 9AM@KeefeHS \$25/T	Andy KC1DMM 508 310 5913 +
28 April Thompson CT ECARA @ Raceway \$3 \$15/sp	Jon KA1MPG 508 943 4467 F+

### HAM RADIO LOCAL AREA NETS

If you know of a Ham Radio Local Area Net that is not listed here, a typo on the information, or a Net listed which is no longer active, please contact John – N1UMJ at: [N1UMJ@arrl.net](mailto:N1UMJ@arrl.net), so this list can be updated. All Frequencies are in MHz and 6 Meters (50.0 MHz and up.), are FM Mode unless otherwise noted. Thanks!

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

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

NE Cracker Barrel Net, 7:00 PM Daily (Matt – W1AEM, NCO on Sun), 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. St. Night at 7:30 PM, Falmouth N1YHS Rptr, 147.375 + PL 110.9

Genesis ARC CW Training Net, 7:00 PM, Plymouth N1ZIZ Rptr, 146.685 – PL 131.8

Eastern MA 2 Mtr Traffic Net, Every Night at 8:00 PM, Boston W1BOS Rptr, 145.230 – PL 88.5

Norfolk County Radio Association Net, 8:00 PM, Walpole Rptr, 146.895 – PL 123.0

Monday: Cape and Islands Weather Net, 6:00 AM, Mon – Sat, Dennis K1PBO Rptr, 146.955 – PL 88.5

Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Norfolk County Emergency Preparedness Net, 8:00 PM, Walpole Rptr, 146.895 – PL 123.0

New England DMR net, DMR-MARC repeaters talk group 3181 New England

Falmouth ARA Net, 8:30 PM, Falmouth K1RK Rptr, 146.655 – PL 88.5

Boston ARC Rag Chew Net, 9:00 PM, Boston W1BOS Rptr, 145.230 – PL 88.5

Tuesday: Massasoit ARA Net, 8:00 PM, Bridgewater W1MV Rptr, 147.180 + PL 67.0 (Except 3rd Tue!)

Genesis ARC 2 Mtr Rag-Chew Net, 7:30 PM, Plymouth N1ZIZ Rptr, 146.685 – PL 131.8

Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Norwood Amateur Radio Club Net, 8:00 PM, Norwood Rptr, 147.210 + PL 100.0

220 MHz Day! Try to find a 220 Repeater near you and give a call out!

Wednesday: Whitman ARC 10 Meter Rag-Chew Net, 8:00 PM, 28.333.0 USB (Except 1 st Wed!)

Blackstone Valley ARC , 2 Mtr Simplex Net, 7:00 PM, 146.565

Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Cape and Islands ARES Net, 8:00 PM, Dennis K1PBO Rptr, 146.955 – PL 88.5

Waltham Wranglers Swap Net. 9:00 PM, Waltham W1MHL Rptr , 146.64 – PL 136.5

Thursday: Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Genesis ARC CW Training Net, 7:00 PM, Plymouth N1ZIZ Rptr, 146.685 – PL 131.8

10 Mtr General Class Rag-Chew Net, 8:00 PM, 29.470.0 FM

Sturdy Mem. Hosp. ARC ARES Practice Net, 8:30 PM, K1SMH Rptr, 147.195 + PL 127.3

900 MHz Day! Try to find a 900 Repeater near you and give a call out!

Friday: Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Saturday: South Shore Skywarn Net, 8:00 PM, 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 Denise Sisson KC1CFO  
Vice President Jeff Lehmann N1ZZN

Treasurer: Phil McNamara N1XTB

Secretary:

Call sign Trustee: Phil McNamara N1XTB

Repeater Trustees: Carl Aveni N1FY., Lou Harris N1UEC, Bob Mandeville N1EDM

**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/>

**Newsletter Editor** [kb1tee@gmail.com](mailto:kb1tee@gmail.com)

**WARC Web Page** <http://www.wa1npo.org>

**Qsl via** [www.eqsl.cc](http://www.eqsl.cc)

**Skywarn** [www.powersrvcs.org/w1gmf/skywarn.htm](http://www.powersrvcs.org/w1gmf/skywarn.htm)

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

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

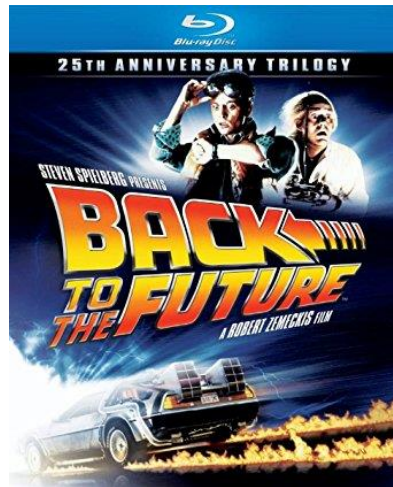
Our **Meetings-On-The-Air** are held all other Tuesday evenings at 8PM on 147.180+ and includes the Westlink News Report with the latest news about happenings in the world of Amateur Radio.

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 2<sup>nd</sup> Saturday of every month, in Braintree contact Steve Cohen , W1OD via email w1od@arrrl.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.

Editor Rick Emord KB1TEE

TV and Movies using radio communications



*Back to the Future* is a 1985 American science fiction film directed by Robert Zemeckis and written by Zemeckis and Bob Gale. It stars Michael J. Fox as teenager Marty McFly, who accidentally travels back in time to 1955, where he meets his future parents and becomes his mother's romantic interest. Christopher Lloyd portrays the eccentric scientist Dr. Emmett "Doc" Brown, inventor of the time-traveling DeLorean, who helps Marty repair history and return to 1985.







*Back to the Future* was released on July 3, 1985 and it grossed over \$381 million worldwide, becoming the highest-grossing film of 1985. It won the Hugo Award for Best Dramatic Presentation, the Saturn Award for Best Science Fiction Film, and the Academy Award for Best Sound Effects Editing. It received three Academy Award nominations, five BAFTA nominations, and four Golden Globe nominations, including Best Motion Picture (Musical or Comedy).



In 1985 Hill Valley, California, teenager Marty McFly and his girlfriend, Jennifer Parker, are chastised by the school principal for tardiness. Marty auditions for the Battle of the Bands, but is rejected for being too loud. At home, Marty's father George is bullied by his supervisor, Biff Tannen, while his mother Lorraine is an overweight, depressed alcoholic. Lorraine recalls how she met George when her father hit him with his car.

Marty is invited by his friend, eccentric inventor Dr. Emmett "Doc" Brown, to meet him in the parking lot at Twin Pines Mall. Doc unveils a time machine built from a modified DeLorean and powered by plutonium stolen from terrorists. Preparing to demonstrate it, Doc sets the date to November 5, 1955: the day he invented time

travel. Moments later, the terrorists arrive and shoot Doc. Marty escapes in the DeLorean, but inadvertently activates the time machine by hitting 88 mph.



Marty finds himself in 1955 and without the needed plutonium to return. He walks into downtown Hill Valley, and encounters the teenage George in the diner, who is bullied by his classmate Biff. After Marty saves George from an oncoming car, he is knocked unconscious and awakens to find himself tended to by an infatuated Lorraine.

Marty tracks down Doc's younger self to help him return to 1985. Without access to plutonium, Doc explains that the only power source capable of generating the necessary 1.21 gigawatts of electricity for the time machine is a bolt of lightning. Marty shows Doc a flyer from the future that recounts a lightning strike at the town's clock tower due on the upcoming Saturday night.

Doc instructs Marty to not leave his house or interact with anyone, as he could inadvertently alter the future; because of this, Doc refuses to heed warnings from Marty about his death in 1985. Marty soon realizes that his actions earlier that day have prevented his parents from meeting and he will soon be erased from existence if he does not find a way to introduce George to Lorraine. Doc formulates a plan to harness the power of the lightning, while Marty sets about introducing his parents to each other.



After Lorraine asks Marty to the school dance, Marty concocts a plan: he will feign inappropriate advances on Lorraine, allowing George to "rescue" her. The plan goes awry when a drunken Biff attempts to force himself on Lorraine. George, enraged, knocks out Biff, and Lorraine follows him to the dance floor, where they kiss while Marty performs with the band.

As the storm arrives, Marty returns to the clock tower. After a few mishaps with the cable, and the DeLorean refusing to start, the lightning strikes, and Marty is sent back to the future. Back in 1985, Marty finds that Doc has survived the shooting, as he had listened to Marty's warnings and worn a bullet-proof vest. Doc drives Marty home and departs to explore the future. Marty awakens the next morning to find that his actions have changed the timeline; George is now a successful author, Lorraine is fit and happy, and Biff is now an obsequious auto valet. As Marty reunites with Jennifer, the DeLorean appears with Doc, insisting they

accompany him to 2015 to resolve a problem with their future children. The trio board the DeLorean and travel into the future.

