

CAARA NEWS



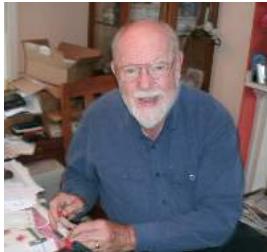
Cape Ann Amateur Radio Association
JULY 2019 Edition



PRESIDENT'S COLUMN

by Hank- W4RIG.

We had a great time at 6 Stanwood during the Field Day weekend June 22-23, 2019. We had several dozen members and guests come by for fellowship, food and operations for the 24 hours from 2:00 PM EDT on Saturday to 2:00 PM EDT Sunday. The Clubhouse was active for the full 24 hours and we made hundreds of QSO's using three transmitters and at least 15 operators over that time span. Many thanks for a great job by Tony AB1XK who served as Field Day Chairman. We had several visitors including State Senator Bruce Tarr (N1UIU) who is also a member of CAARA and a great friend of Amateur Radio. We had good publicity in the local newspapers and on the internet via Good Morning Gloucester. Great food by Tony N1 JEI and clean up by Dave N1CDL. Thanks to all who participated and helped the successful participation in the 2019 ARRL Field Day. The new antenna installed by Jon K1TP and the crew worked beautifully



We look forward to future Field Days with improved participation by our members and friends. Hank W4RIG

INFORMATION DESK

by Dean- KB1PGH

Well July is a pretty slow month for any ARRL contests but there is the IARU HF World Championship which will be held on July 13th and the 14th and that is pretty much it. So unless you live under a rock I hope you know that we are in the bottom of the sunspot cycle. We are ending cycle 24 and will be starting the upward trend of sunspots in cycle 25 in another year. If you did not know the sun goes through



an 11 cycle of 4 years up and 7 years down in the number of sunspots. Sometimes you get what they call a "double peak" in the cycle. Where the number of sunspots dip then go up for a short second period of time. If you are looking to learn something about the sun find out what a coronal mass ejection is and what a sunspot does to the earth's ionosphere. Even though we are at the bottom of the cycle don't forget about checking 10 and 6 meters for propagation. Keep on listening and monitoring those two bands because you never know when the bands will open. Especially during the summer months. I remember during files day back in 2011 when the sunspots were low we had over 200 6 meter contacts that weekend so it can happen. Plus there are local nets on 10 and 6 meters and local activity as well. Of course you can always find out what is going on with the sun by going to www.spaceweather.com. As you know I have a Icom IC 7300



and now there is new reference book for it. It's called "The Radio Today-Guide to the Icom IC 7300". It's written by Andrew Barron ZL3DW. I would highly recommend to anyone out there who owns a Icom 7300 to grab this book. It's very well written and reads a heck of a lot better than the manual the 7300 comes with. The book contains a few hints and tips on how to operate the 7300 such as adjusting the band scope settings as well as a few modifications and troubleshooting ideas. It's about 160 pages long but the size of the book is good so you can carry it around with you if you go portable. The book is well worth the money and costs \$15.00 and you can order it through Amazon. Moving on, I have two websites for you with amateur radio reference material that I found while doing searches for

CAARA Newsletter
Cape Ann Amateur Radio Association
6 Stanwood Street
Gloucester, MA 01930

CAARA Newsletter is a monthly publication of the Cape Ann Amateur Radio Association (CAARA).

It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to CAARA members, and space is available. Material is accepted on a first come, first serve basis. Articles and other materials may be submitted by internet to Jon at k1tp@arrl.net. If possible, material should be in Word format. Material may also be submitted as hard copy to Jon-K1TP or any Club Officer.

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Jon Cunningham- K1TP Editor
Dean Burgess- KB1PGH Reporter

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Welcome to CAARA:

CAARA, an ARRL affiliated club, operates the 2 meter W1GLO repeater on 145.130 MHz with antennas located on the ATT cell tower in the Blackburn Industrial Complex in Gloucester Massachusetts. It has an average effective radius of 60 miles, and serves Eastern Massachusetts, Cape Cod, Rhode Island, Southern New Hampshire, and maritime mobile stations.

CAARA also operates the W1GLO repeater on 224.900 located at the CAARA clubhouse.

The former W1RK 443.700 repeater is now on the ATT cell tower in the Blackburn Industrial Complex with greatly enhanced performance.

The Association is one of the few amateur radio clubs that has its own clubhouse. Located at 6 Stanwood Street in Gloucester, it includes a permanent HF station with beam, vertical/wire antennas along with an operating 2 meter packet station as well as 2/440 meter voice and 220 MHz Transceivers.

Amateur radio exams are held on the second Sunday of each month at 10:00 AM at the CAARA clubhouse. Anyone who is considering a new license or an upgrade, is welcome to test with us. Pre-registration necessary.
Contact the head of our VE team Rick Maybury-WZ1B if you have any questions about monthly testing.

Monthly member meetings are held on the second Saturday of each month at noon.

Each Sunday evening at 9:00 PM, the club operates a 2 meter net on 145.130. This is an open and informal net which disseminates club news and prepares operators for emergency communications work. All are invited to check into the net as club membership is not a requirement.

the Icom 7300. First you can try www.dj0ip.de and then www.radioaficion.com. Check them out see if any there interests you since they both contain a bunch of amateur radio related material. I have not covered this in a while but here's a couple of home safety or ham shack reminders. Don't forget that you have to replace all the smoke detectors in your home or ham shack every ten years. I'm in the process of doing that myself at my home. While you're at it you can change out your carbon monoxide detectors every 10 years as well. Of course it's always good to have at least one decent fire extinguisher in your home and a properly stocked first aid kit. I'm trying to think of stuff I have not covered in this column and if you're wondering about QSL cards you can either do them electronically through www.eqsl.cc or if you want paper ones made up you can go to www.cheapqsls.com. Next, if you are looking for any ham radio related signs and decals or and other stuff with your callsign printed on it you can check out either www.hamcrazy.com or www.thesignman.com.

That's it for now, 73
Dean KB1PGH

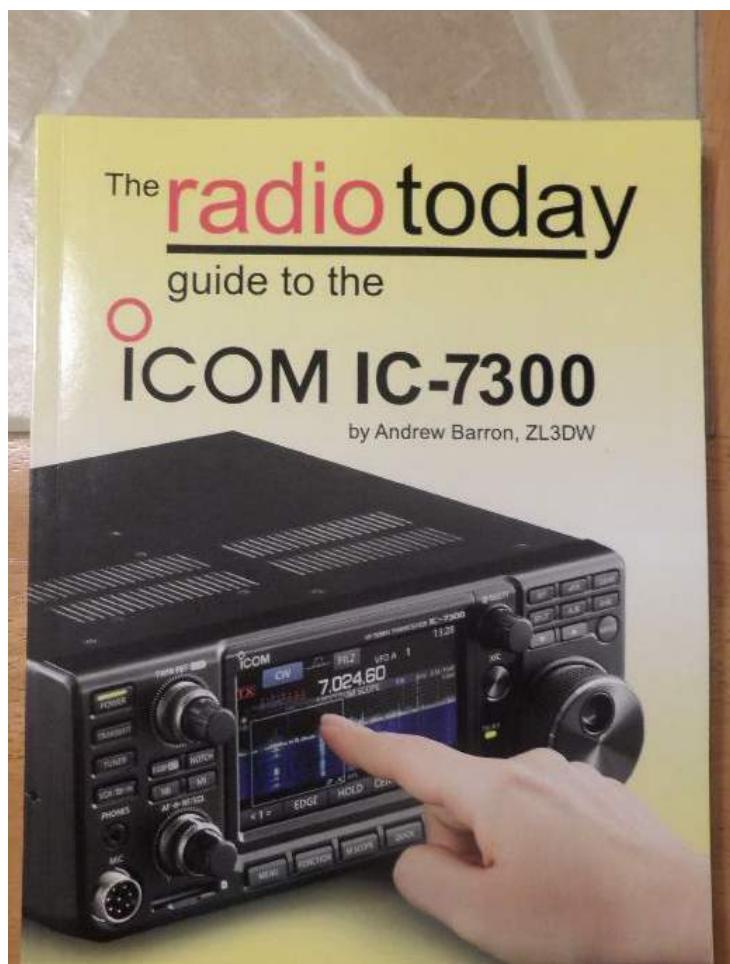


FIELD DAY WITH DEAN

I took my trusty Black Sheep mascot with me and headed out toward my workplace at Bothways farm in Essex Mass. I got there at 10 in the morning and set up the usual Buddipole Mast with a Hy Gain 4 band off center fed dipole. For the operating position I set up the great performing Icom IC 7300. The band conditions were ok overall. There was not a lot of overseas DX coming in but the bands were quiet enough for good domestic DX operations. Both 40 and 20 meters were open but there was not much to be had on 10 and 6 meters.

I did manage to have a 5 minute QSO on 10 meters to a guy in Atlanta Georgia but oddly enough he was the only person I heard. I'm not sure even if anyone bothered to even monitor 10 meters or give out CQ's because obviously the band was open but it was dead quiet. I also tried 6 meters as well and managed to make a couple local contacts but there was no DX joy to be had on 6 meters for this field day but at least I gave it a shot. Fellow Black Sheep member Ross W1RAB stopped by and made his mandatory 1 contact. As you can see in the photo the Icom's 7300 spectrum scope was full of activity on 20 meters once the 2 PM kick off time started. There was plenty of contacts to be had on 20 and 40 meters. By the time I was done I made about 40 contacts.

I listened to all the action on the bands a lot of time too. We just need to get those sunspots to come back. We are exactly in the sunspot minimum and the sunspots from the new cycle 25 won't be back in earnest until the end of 2020 with a peak of 2025. Can't wait until next field day. I'll do another portable HF ops session at the end of August, 73, Dean KB1PGH



June 9 Board Meeting



Delicious brownies from Elizabeth & Tony AB1XK. Thank you Elizabeth!!!

New Beam at CAARA



We ordered a replacement beam, a Mosley TA-33 with WARC bands included to replace our old Cushcraft A3 beam which has served us for 30 years. The elements were assembled during the regular Tuesday night meeting. The final assembly of attaching the elements to the boom and testing the antenna for swr was done outside on the front deck a few days later.

We then contracted Clay Sign from Rockport to arrive on the Wednesday before Field Day to erect the antenna on top of our 50 foot tower. Special thanks to all who participated during the process, job well done!

N1JEI



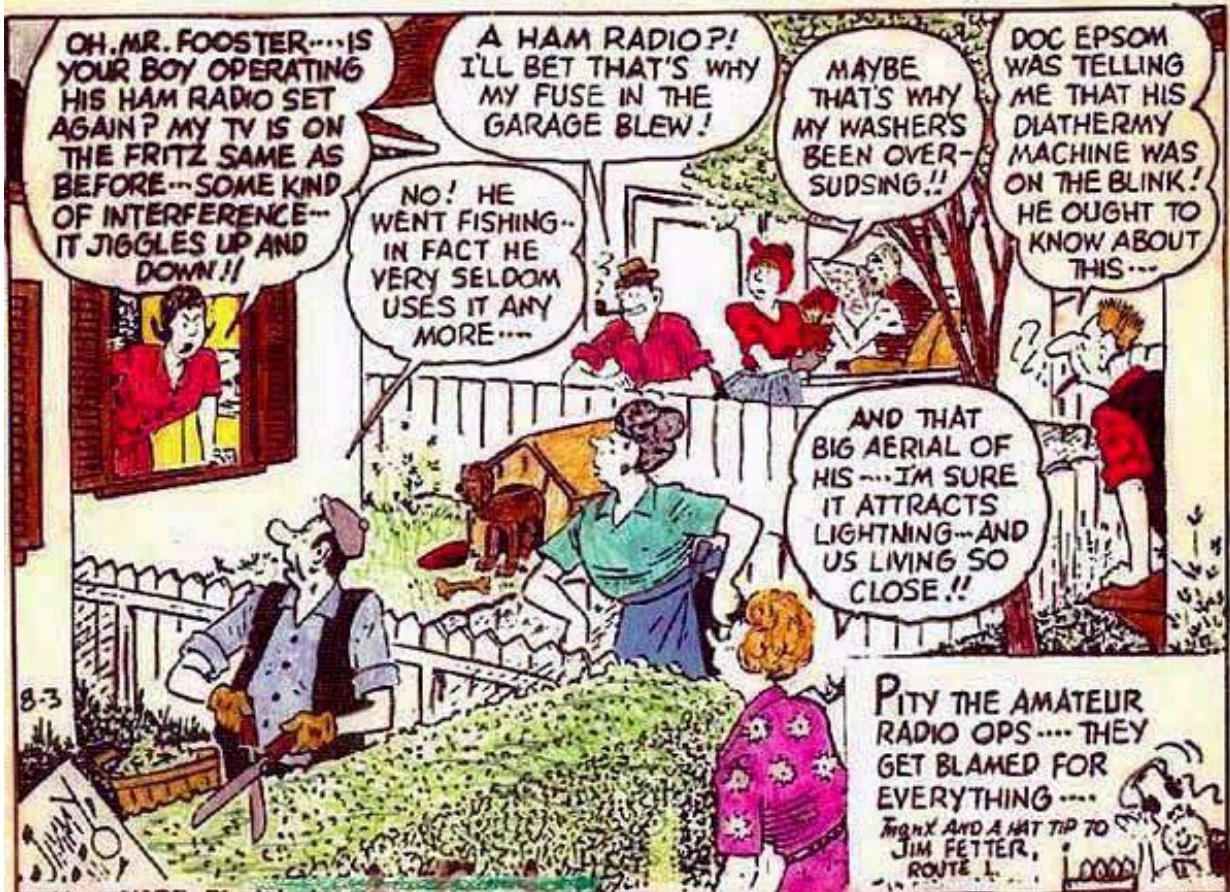


N1JEI



N1JEI

THEY'LL DO IT EVERY TIME -- -- -- by Hatlo

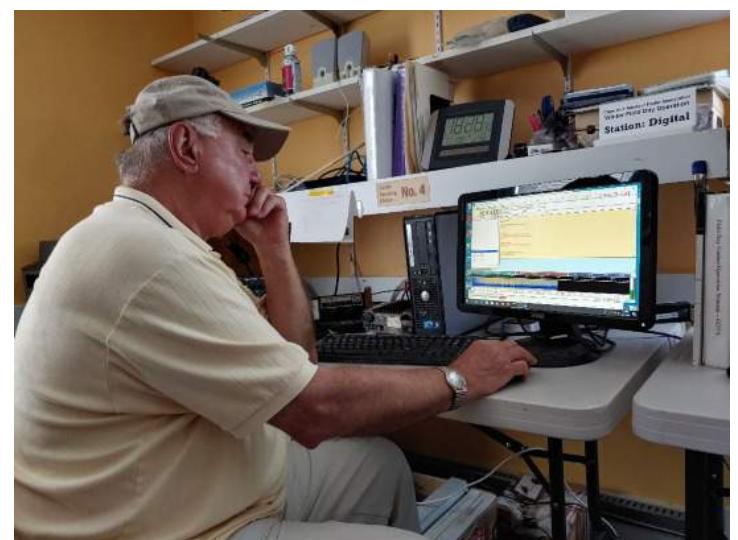
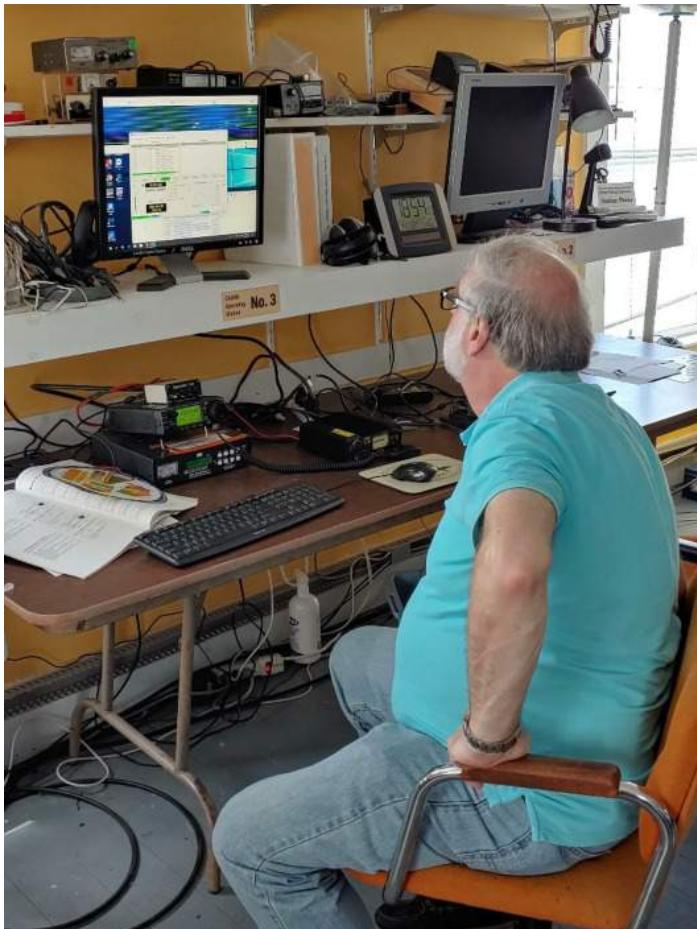


Submitted by Dick- K1VRA

Special thanks to Clay Sign Service
for the professional help with our
antenna raising.

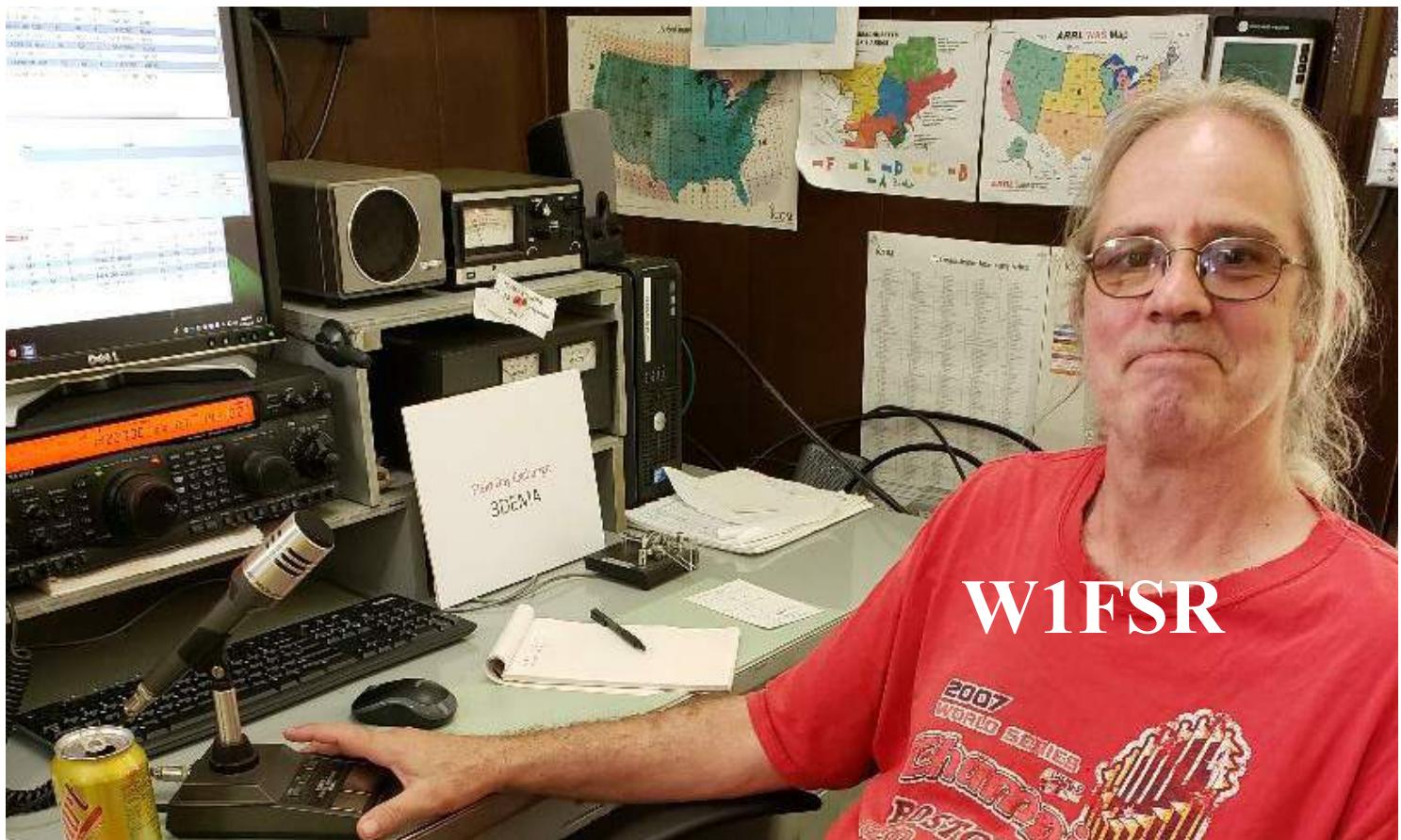
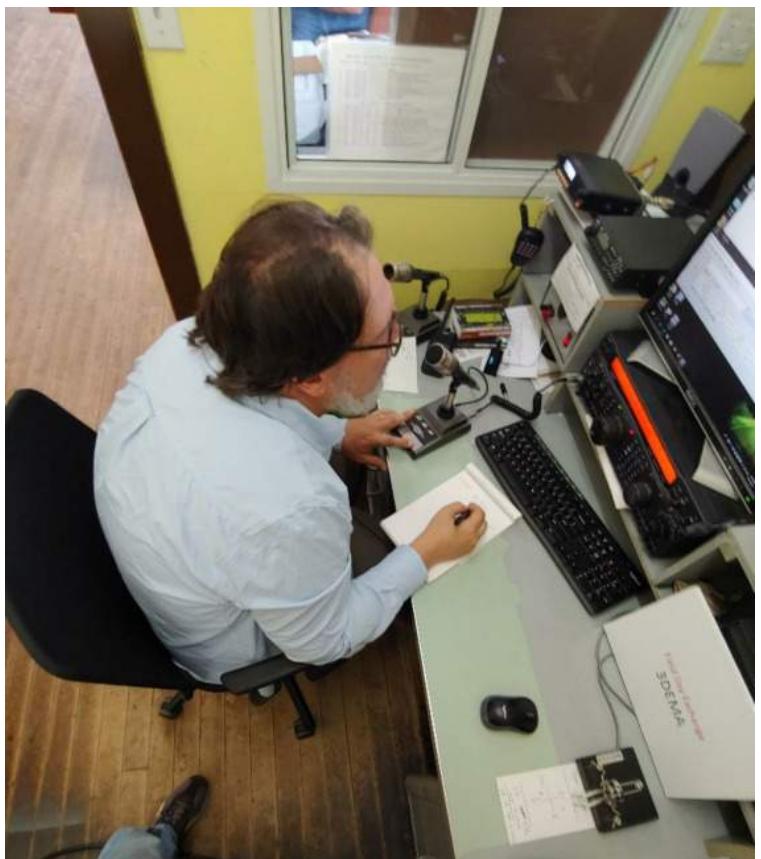


FIELD DAY



Field Day was held at the clubhouse, although band conditions left something to be desired, all that attended had a good time. A cookout was held on Saturday afternoon with Chef Tony- N1JEI at the grill.

Senator Bruce Tarr, a club member, attended and presented another Amateur Radio Day Proclamation certificate



Rich- W1FSR above operated at the club all night long alone and worked 20 meters SSB and snagged a nice contact with MAUI AMATEUR RADIO CLUB- KH6RS Rich sent a club QSL card and we hope to one in return....Congrats to Rich!

COAST GUARD DAYS by Paul- K1AID



Above-Paul- K1AID IN South Hamilton running his Yaesu FT101F into a 16 foot vertical antenna.

Right- Paul- K1AID running as KC4USRE/MM abpoard the US Coast Guard Icebreaker "Eastwind" breaking ice in the Antarctica in 1967. Paul was runing phone patches using a Collins S-Line and a 35 foot whip. Most of the traffic went thru 20 meters to W3CVT in Leechburgh, PA



Thanks Paul for the article.....

The Plumbing Festival

by Curtis- AA3JE-



It's been a year, and I still have not cleared the "Honeydew" list enough to put up the 40 meter sloper. But I have hopes.

The latest was a problem that many face. The hot water heater is at one end of the

house, two floors and 115 feet from the kitchen. That would not be so bad if they had not run the PEX hot water line in the cast concrete kitchen floor. Even with the water heater modified to issue forth water just below the boiling point, it takes five minutes to heat the line, which is four minutes and 30 seconds longer than the patience of SHE WHO MUST BE OBEYED.

"THERE IS SOMETHING WRONG WITH THE WATER HEATER!"

"There's a lot of pipe to heat up between the water heater and the sink, dear. Be patient."

"IT'S ICE COLD"

This was not true. It was at the temperature of the basement wall, a toasty 45 degrees. But the order came down.

"FIX IT! I DON'T CARE HOW! FIX IT! OR I CALL THE PLUMBER!"

Faced with the loss of my membership in the "Sorry Assed Home Repair Club", the consequences of calling a professional, I looked on the Internet.

"Under sink small water heaters.....hmmmm...."

I found three or four small 120V units, each of which pulled 10-12 amps, which would do. There was no clue as to the country of origin, so I looked at the installation instructions.

"SUPER E-Z INSTALL!"

That was the one! So I ordered it. It came, and I read the instructions.

"Easy self-install! All parts included! Just connect the lines!"

So I connected one hose to the water supply, one to the faucet, and wired the 120 volt outlet, as I previously described.

All went well for about six months. Then I noticed a puddle in front of the sink. I opened up the doors, and the water poured out.

Every joint was leaking.

I pulled it out, using all the beach towels and the shop vac, and inspected. I had not a clue. So I remade all the joints, and stuffed it back together.

Next day, another puddle.

So I pulled it apart and used a whole roll of teflon tape. The stuff labeled "SUPER SEAL".

Another puddle.

So I went and got all new hoses. Another puddle. But I was forming a warm relationship with the guys at "HOME STUFF" plumbing department. So it was not a total loss.



One finally took pity on me.

“Youse got a tube draining the pressure relief valve?”

“HUH?”

“Aisle C-4”

Another puddle.

“What now, Joe?”

“Youse should not buy dat stuff on the Internet, we stocks them.”

So I bought a US made unit, for twice the price.

Another puddle.

“Joe, I can’t understand it,” I finally confessed.

“What size surge tank you put in?”

“Surge tank?”

“Yeah, dere is a check valve in the house line. Dat ting fills up with cold water, heats it, it expands, you building up what, 120-150 pounds pressure in the water line? I am surprised you ain’t blown out the whole house. Lucky you make piss poor joints.”

“Would you have one of these, er, “surge tanks?”.

“Aisle B-4”

So, with a brand new, 5 gallon surge tank, I made up all the joints again.

This time, it was a tiny puddle.

“JOE! What the (expletive deleted as this is a wholesome newsletter) is wrong?”

“Wrong tape. Use the plain white stuff. This stuff says it’s “heavy duty”, but it don’t work. Oh, and crank down the joints real hard. Oh, and secure the tank, so it don’t roll around.”

Another puddle. But this time I took a picture.

“You some kind of idiot? Look at the hose connectors. You putting too much stress on the joints. Dey is not made for dat. You need hoses twice that length. Gentle, sweeping bends!”

So, four hoses later, with the right tape, I cranked those brass fittings till they screamed.

No leaks.

And I checked the original unit. It has “G” fittings, which are 19 Threads per inch. US standard is 18 Threads per inch. So unless you are in Bulgaria, you will never get the (another expletive” things to seal (unless you have a pal in Bulgaria).

Total cost? Abut twice what the plumber would charge. Joe moonlights.

I may call him next time. He says he never reveals his customer’s names.

Nature Article Suggest a “Grand Solar Minimum” Lies Ahead

A juried research paper in Nature, “Oscillations of the baseline of solar magnetic field and solar irradiance on a millennial timescale,” suggests that a “grand solar minimum” — similar to the legendary “Maunder Minimum” — is approaching, starting as early as next year and lasting for three solar cycles. That would be bad news for HF enthusiasts, who are already struggling with marginal conditions.

As the paper’s abstract explains, “Recently discovered long-term oscillations of the solar background magnetic field associated with double dynamo waves generated in inner and outer layers of the Sun indicate that the solar activity is heading in the next three decades (2019–2055) to a Modern grand minimum similar to Maunder one.”

As propagation buff and contester Frank Donovan, W3LPL, observed, “It’s very uncertain if this forecast is correct, but as usual the forecasts of the next solar cycle are all over the map. Let’s hope these scientists are wrong.”

2m amateur radio band endangered?

A friend brought this news to my attention today. If all this makes its way up the ITU World Radio Conference and gets adopted it is more likely that amateur radio will be kicked out of the 144-146MHz segement as a primary service. Let's try to get to the bottom of this.

At the end of the Southgate article there is a link to the CEPT website where we can download documents for the upcoming CEPT meeting. The document of interest is called PTA(19)090 (direct link to he document) and consists of a zip file. The zip file contains a PDF document explaining that there is a legit need for non-safety aeronautical applications such as data links for border control, fire surveillance etc. There is lots of blah-blah about not having frequencies clearly identified for that purpose. Among other band the document simply proposes to re-allocate 144-146 on primary basis to aeronautical services for such needs (see page 5 note a)

a) that the band 144-146 MHz is allocated to the Amateur and Amateur-Satellite on a primary basis in all Regions and may be considered for possible new allocations to the aeronautical mobile service on a primary basis;

Yep, primary basis! They intent to kick amateur radio out of the 144-146MHz band, worldwide! This means hams worldwide would be forced to cease any emissions as soon as the primary service is getting on air. No more repeaters, APRS, SSB, you name it... Since aircrafts can have a very large coverage radius when flying high-altitude, cohabitation will be impossible.

There is also a second set of documents from a few french ham radio organizations where we actually learn that this proposal is driven by Thales Group, a manufacturer of unmanned aircrafts.

IMHO ther is no need to panic for now, as this topic will be first discussed at the european level CEPT and from this point on will be moved to global discussion at the next World Radio Conference. The CEPT meeting will be held from June 17th to 21st in Prag CZ, so stay tuned.

Walmart Parking Lots on the Air 2019.

It's like déjà vu all over again!

The 2nd Annual WMPLOTA will take place starting July 6, 2019 at 00:00 UTC and ending July 7 at 23:59 UTC.

WMPLOTA is now held annually on the first weekend in July. The first weekend in July was chosen for WMPLOTA, putting it forevermore in temporal proximity to July 2, the birthday of Walmart when Sam Walton opened the first store in Rogers, Arkansas in 1962.

WMPLOTA is a special event and award scheme for Amateur Radio satellite operators that encourages the practice of portable operation in the ubiquitous and easily accessible location of Walmart parking lots.

Complete information including rules can be found at www.wmplota.org or on Twitter at [@WMPLOTA](https://twitter.com/WMPLOTA).

Television, film, and music star John Schneider salutes ham radio operators and other volunteers

Twice a year for the past 32 years cars have blasted down 150 miles of closed, high desert, roadway. This is the Silver State Classic Challenge and it's sister race the Nevada Open Road Challenge, certified by the Guinness Book of Records as the World's Fastest Race on a Public Highway.

The course is on Nevada Highway 318, which Nevada has renamed as the Silver State Classic Challenge Highway. This is unforgiving country, with no communications infrastructure, no towns, no gas, nothing. To

run this race it takes hundreds of volunteers, police, fire, EMS, fixed wing aircraft, helicopters, etc all tied together by an army of amateur radio operators.

As a way of saying "Thank You" to their ham operators and course workers, Silver State Classic Challenge is hosting a Ham Radio Appreciation Reception at July's NVCON the ARRL Nevada State Convention.

SSCC asked celebrity Schneider to help say "Thank You" via a message for all the SSCC volunteers which they could play at the SSCC Ham Radio Reception.

You probably remember John as "Bo Duke" on the hit series "Dukes of Hazzard", as "Jonathan Kent" on "Smallville", or as "Jim Cryer" on Tyler Perry's "The Haves and Have Nots". John raced his car the "General Lee many times in the Silver State Classic Challenge.

He has starred in more than 100 television shows, more than 50 movies, and as a country/western artist he has dozens of albums and singles to his credit.

A note about John's volunteering...you may remember him for hosting the National Memorial Day Concerts from the capital.... but did you also know that along with Marie Osmond, John is the co-founder of the Children's Miracle Network of hospitals.

HAM RADIO 2019 in Friedrichshafen Reports 14,300 Attended from 50 Countries

While thousands were enjoying ARRL Field Day over the June 21 – 23 weekend, some 14,300 visitors from more than 50 countries arrived on the shores of Lake Constance in Friedrichshafen, Germany, for HAM RADIO 2019. Show officials said this 44th event attracted about 400 more visitors this year. The previously reported 2018 attendance of 15,460 included radio amateurs, invited Scouts, and attendees at the concurrent and co-located Maker Faire, which did not take place at this year's show. This year's show boasted 184 exhibitors and associations from 32 countries.

ARRL fielded a contingent of representatives to HAM RADIO 2019, headed by President Rick Roderick, K5UR.

"The ARRL booth was busy," reported ARRL Product Development Manager Bob Inderbitzen, NQ1R. "Many international attendees joined ARRL or renewed their memberships. It was nice to meet so many radio amateurs from around the globe."

Inderbitzen said a substantial line formed on Friday and Saturday morning as applicants for DXCC and other popular ARRL Award programs queued up to have their QSL cards verified by volunteer ARRL Card Checkers. Some 40 candidates sat for their US license examinations on Saturday, organized by ARRL Volunteer Examiner team leader Manfred Lauterborn, DK2PZ/K2PZ.

Inderbitzen added that many international attendees joined ARRL or renewed their memberships. "QST is enjoyed the world over," he said. ARRL has nearly 9,000 international members.

Inderbitzen also said he was struck by the large number of younger attendees. "Many of these young radio amateurs and prospective hams attended Ham Camp," Inderbitzen said. "A large contingent representing Youngsters on the Air (YOTA), an initiative of IARU Region 1, helped promote the 2019 YOTA summer camp, August 11 – 17 in Bulgaria. During HAM RADIO, young hams carried the YOTA flag to each of the stands organized by International Amateur Radio Union (IARU) member-societies, gathering crowds to cheer on the young hams."

Launch Your Own Personal Satellite for \$8,000 US

Want to launch something into space? You can now do just that for only \$8,000 USD. The rocket company Interorbital Services (IOS) is offering their “TubeSat Personal Satellite Kit” that can carry 0.75-kg into orbit. The price includes a launch into low Earth orbit on an IOS NEPTUNE 30 launch vehicle to 310 kilometers (192 miles) above the Earth. TubeSats are designed to be orbit-friendly, and not contribute to orbital debris by being in a self-decaying orbit. Launches are expected to begin in the fourth quarter of 2010.

Interorbital says a TubeSat is designed to function as a basic satellite bus or as a simple stand-alone satellite. Each TubeSat kit includes the satellite’s structural components, safety hardware, solar panels, batteries, power management hardware and software, transceiver, antennas, microcomputer, and the required programming tools. With these components alone, the builder can construct a satellite that puts out enough power to be picked up on the ground by a hand-held HAM radio receiver. Simple applications include broadcasting a repeating message from orbit or programming the satellite to function as a private orbital HAM radio relay station. These are just two examples. The TubeSat also allows the builder to add his or her own experiment or function to the basic TubeSat kit.

Possible experiments include Earth imagery, measuring the orbital environment, tracking something like migratory animals, testing hardware or software in the space environment, or doing on-orbit advertising.

More P.E.I. women taking up amateur radio

CBC News reports more women on Prince Edward Island, Canada, are taking up amateur radio

Stephanie vanKampen writes:

Therese Mair dons headphones while her fingers fiddle with a scanner, searching for a voice through the static.

She goes on air from her home-made station in Georgetown, P.E.I., with her call letters VY2TAM everyday and chats with strangers.

"What I love is being able to talk to people around the world that I don't know," she said. "I just randomly talked to somebody in Croatia this morning."

Mair is new to amateur radio, commonly known as ham radio. But she's already showing other women the ins and outs of the hobby at an annual event being held in Charlottetown.

Julieanne Scales, 20, came to the event hoping to learn more about the hobby. She said seeing other women operators makes it more attractive.

"To know that there are more women in this as well is encouraging and I'd definitely like to take part."

Petition for Rulemaking Asks FCC to Create a New 8-Meter Amateur Band

The FCC has put on public notice for comment a Petition for Rulemaking (RM-11843) that seeks the creation of a new 8-meter Amateur Radio allocation on a secondary basis. The Petition suggests the new band could be centered on an industrial-scientific-medical (ISM) segment somewhere between 40.51 and 40.70 MHz. The spectrum between 40 and 41 MHz is currently allocated to the Federal Government and, as such, within the purview of the National Telecommunications and Information Administration (NTIA). ARRL member Michelle Bradley, KU3N, of Maryland, filed the petition in May on behalf of REC Networks, which she founded and described in the Petition as “a leading advocate for a citizen’s access to spectrum,” including Amateur Radio spectrum.

PUBLIC SERVICE ROAD RACES

CAARA Public Service Schedule 2019

- 1 Fool's Dual March 31, 9:00am 5K Race Start 10:00am Half Marathon O'Maley Middle School 32 Cherry Street Gloucester, MA.
- 2 Twin Lights Good Harbor Beach April 27, 9:00am Half Marathon Start Thatcher Road Gloucester, MA.
- 3 Rocky neck Art Assn. 5K Run/walk Team Challenge May Date T.B.D.
- 4 Fast Half May 11, 9:00am Half Marathon Start Hamilton Wenham High School 775 Bay Road South Hamilton, MA.
- 5 YMCA Backshore 5K Thursday, May 16th, 6:00pm; Good Harbor Beach, Gloucester
- 6 Motif No.1 Day Arts Fest & 5k Fun Run Date T.B.D.
- 7 Cape Ann Trail Stewards Dogtown 5 Mile Trail Run 19 May 2019 9:00 AM
- 8 Twin Lobster June 2, 8:00am 1 Mile Race Start 8:30am Half Marathon Start Gloucester High School 32 Leslie O Johnson Road Gloucester, MA.
- 9 YMCA Father's Day 5K Sunday, June 16th, 9am; Rockport High School, 24 Jerdens Ln.
- 10 YMCA St. Peter's Fiesta 5K Thursday, June 27th, 6:00pm; Stage Fort Park, Gloucester
- 11 Triple Threat August 4, 8:00am 1M Race Start 8:20am 5K Race Start 9:15am Half Marathon Start Rockport High School 24 Jerdens Lane Rockport, MA.
- 12 Half Marathon by the Sea September 22, 10:00am Half Marathon Start Manchester Essex Memorial Elementary School 43 Lincoln Street Manchester-by-the-Sea, MA
- 13 The Lone Gull 10K Road Race September. Date T.B.D.
- 14 Parker River Half Marathon. October 6, 9:00am Half Marathon Start Triton Regional High School 112 Elm Street Byfield, MA 01922
- 15 Ocean View November 3, 8:30am 5k Race Start 9:30am Half Marathon Start Ipswich High School 134 High Street Ipswich, MA 01938
- 16 Holiday MerryThon. December 1, 9:00am 5K Road Race Start 10:00am Half MerryThon Start Good Harbor Beach Thatcher Road Gloucester, MA.

Why should you participate in race events?

It helps the club financially, we receive a donation for each race. You are using amateur radio to provide a needed public service to ensure the safety and smooth running of a public event in local communities.

I would but I do not have a radio.

No excuse, we have loaner radio's available with a mag mount that will work in your car just by just plugging it into the cigarette lighter socket. We have loaner hand held radios as well!

I don't have transportation.

No excuse, we will pick you up and drop you off at your house.

I do not have the time to spare for a whole race.

Well, you can commit to a time slot, for just two hours. We will bend over backwards to get you to participate.



JULY 2018



CAPE ANN AMATEUR RADIO ASSOCIATION

6 Stanwood Street
Gloucester, MA 01930

978-282-7645
www.caara.net

**Repeaters on 145.130
224.900 & 443.700**

S	M	T	W	T	F	S
		1	2 Open House-5- 10pm	3	4	5
	7	8	9 Open House-5- 10pm	10	11	12
2 meter Net 9PM Every Sunday Night	14	15	16 Open House-5- 10pm	17	18	19
21	22	23 Open House-5- 10pm	24	25	26	27
28	29	30 Open House-5- 10pm	31			