



# Propagator

*Garden State Amateur Radio Association*

**W2GSA  
NOVEMBER  
2019**

8 Donner St.,  
Holmdel, NJ 07733



Please visit the club site

[www.gsara.club](http://www.gsara.club)

[www.w2gsa.org](http://www.w2gsa.org)

You are welcome to use our

open repeater.

(Analog FM) 147.045

+ .600 - PL 67 Hz

(C4FM) Node 43360

Propagator Editor:

Bob Buus, W2OD

Propagator Design &

Production:

Cy Stanway, K2CYS



Happy  
*Thanksgiving*

# A

s the cooler weather comes a-blowin' our thoughts turn to warmth of the heat-sinks in our shacks! Since no-one uses anything with tubes anymore - except maybe a linear amplifier or you die hard Drake TR-4C people out there - there is not much warmth to be gotten by the rigs themselves. But no mind....get in your shack and operate and make some QSOs. Though the propagation has a lot to be desired, that doesn't mean that good conversations and new friends can't be made, new States rounded up and the occasion DX station to check off a new one. There is always something to do before the winter months set in and we are snowbound. (How IS your antenna system? Is it ready for the winter and the windy days and nights ahead? Now is a good time to make sure it is in good shape.)

November also means Thanksgiving and that means family and friends and too much food! From all of us at the GSARA, we wish you a Happy Thanksgiving. There are lots of great things happening at the club in November and we are looking forward to welcoming you to them whenever you can get here. Guests are always welcomed. And, if you want to join the club, we would love to get you involved.

*Make sure to check out the club website often:  
[www.gsara.club](http://www.gsara.club)*





# FROM THE PRESIDENT

ART OLSON, N2AJO

## HELLO EVERYONE

We will start out this month with a couple of exciting events. On November 6th our Hudson Division Director, Ria Jairam will be our guest speaker. The meeting should be an information filled evening so I encourage all to save the date.

At our business meeting on November 20, the remote access team will show us how to use the newest capability, remote access located in our shack. As you may recall from last month's message, the remote access system will have a dedicated Zepp (80m - 10m) antenna designed and constructed by our test team and can be configured for phone, CW and digital (FT8). The software required is free and can be downloaded on a modest PC. Remote control should have a particular interest to those members who live in an antenna restricted area providing the operator with the ability to communicate beyond their locate area.

I want to thank everyone who participated in our September 28th Hamfest. It was a great success with the club bringing in \$2,500 for our treasury. I salute the club members who continue to volunteer, your efforts bring about positive results.

Also happening this month is our member of the year nomination process. If you haven't submitted your nomination please hurry up and do so. You can submit your nomination to John King, [kazfwb2hdj@gmail.com](mailto:kazfwb2hdj@gmail.com).

Last but not least I want to wish everyone an early happy Thanksgiving. This is a great time of the year to gather with family and friends and enjoy your favorite holiday meals with them. If you are traveling over the holidays please remember to be safe.

Art, N2AJO

## KC2YWL – JOHN CHUNGA SK MEMORIAL SERVICE

A memorial service will be held Saturday, October 26th at Oyster Point in Red Bank between 1 and 4 pm. Dress is casual. All GSARA members are invited and those who knew John are especially encouraged to attend.

## TIME CHANGE NOVEMBER 2

When you go to bed Saturday night, November 2 (or early Sunday morning if you stay up late), remember to set our clocks BACK one hour as we go off Daylight Savings Time and back to Eastern Standard Time. You get an extra hour of sleep – enjoy it!

## NEW GSARA MEMBER

Please welcome our newest member to GSARA. He is David Stafford, KD2RZK from Little Silver, NJ. Licensed in 2019, David is a Business Owner who holds a Technician class license. He has a Baofeung HP-82 HT on 2M and 70 cm. A member of the ARRL, David's other interests include science, programming, wood working, golf and sports.

Please add to your Roster:

David Stafford, KD2RZK  
57 Monroe Avenue  
Little Silver, NJ 07739  
908-461-4067  
[Iguana251@gmail.com](mailto:Iguana251@gmail.com)  
Welcome to GSARA, David!





## FROM THE EDITOR

### BOB BUUS, W2OD

**T**he GSARA Hamfest was a great success by all measures. We were blessed by perfect weather and had a very good turnout. Diana, KD2NAD and Blair, KC2EPA did an excellent job with the food and beverages, the club table sold a lot of our surplus equipment, and most of the vendor slots were filled. We had six candidates taking the VE tests and our own Mike, Piatti, N2MEP upgraded to Extra. Congratulations!

The memorial service for John Chunga, KC2YWL has been postponed to Saturday, October 26 at the Oyster Point in Red Bank from 1 to 4 pm. Dress is casual. I hope to see a good turnout of GSARA members.

The Red Cross has gotten strict about security so the front door is locked on our meeting nights and someone has to serve door duty to let everyone in for the meeting. Of course, the door watch person goes to the meeting room at 7:30 to attend the meeting and the door is not covered. However, there is a button on the door handle which rings a doorbell inside so if you are late in getting to the meeting, simply press the button on the door handle and, hopefully, we will hear the bell in the meeting room and let you in.

The program for the November 6 program meeting will feature Hudson Division Director Ria Jairam, N2RJ who will update us on what is going on at the ARRL. Ria always has something interesting to say so plan to come to the meeting.

The committee headed by our Chief Engineer, Phil Festa, N2EDX is making impressive progress in the remote operation of the club's IC-7300 HF rig through the internet. The system being installed will be simple to use and not require a steep learning curve. Furthermore, the controlling software that you download onto your computer is free. For those living in a restricted community who can't put up a decent outdoor antenna, this is an easy way to get on the HF bands. A presentation on how to use the system will be given at the November 20 business meeting. Plan to attend.

As always, I appreciate feedback or material for The Propagator. The deadline for the December issue is November 15.

73 de Bob, w2od@arrl.net

### IF YOU ARE LATE FOR OUR MEETINGS

As you may know, the Red Cross has increased the security for the building so the front door is always locked on meeting nights. Someone is posted at the door prior to the start of our meeting to let in attendees as they arrive. However, the door-watcher attends the meeting when it starts at 7:30 so no one is at the door after that. If you should happen to come in late for the meeting, there is a door bell button on the handle of the door which, when pushed, rings a bell inside the building. Hopefully, someone at the meeting will hear it and come let you in. If no one comes in a short time, ring the bell again and again until someone comes. Thank you.

# FROM THE 'YOU'VE GOT TO BE KIDDING ME' DEPARTMENT

## CALIFORNIA TRYING TO BLOCK REPEATERS

California is trying to snuff out ham radio operators in the state by claiming their emergency services are no longer a benefit despite recent blackouts and the ongoing threat of wildfires.

The California Department of Forestry and Fire Protection (Cal Fire) notified radio operators that they can no longer operate network repeaters, which make ham radios possible by extending their range, unless they pay significant rental fees for using public land.

"...With constantly changing technological advances, there is no longer the same [emergency] benefit to [the] state as previously provided," reads the letter Cal Fire sent to operators. "Therefore, the department no longer financially supports ham operators, radios or tenancy."

The department also apparently claims that to have a rental agreement in place, there's a \$2500 "technical analysis fee" and a "lease administration cost" which ranges from \$3000-\$5000. Ironically, Cal Fire also sent a "Wildfire Action Plan" to residents which advises them to have a "communications plan."

"While the written advice is great, Cal Fire is taking action THAT WILL DESTROY THE critical and vital Ham Radio Repeater System Infrastructure and network which is necessary for the 'communications plan' and safety measures which Cal Fire and the Sheriff advises should be set up by communities and families," reads a legal letter written in response to the notice sent to radio operators. "The FACT IS – when there is a complete communication failure (no phones, no cell phones, no internet, no reverse 911, no code red, no ability to dial 911, and no ability to warn people who are asleep at 2:00 AM in the morning of a raging wildfire, etc...) ALL of the Cal Fire and Sheriff recommendations go up in smoke."

The letter also provides examples of recent use of ham radios during emergencies, including when Shasta County declared an emergency earlier this year:

In Shingletown, all electrical power was OUT. There was no landline service, no cell phones, no internet, no reverse 911, no code red, no ability to dial 911. As one Shingletown resident put it – If I had a heart attack I had no ability to get help! That resident is now part of his neighborhood emergency SER PLAN radio team. Residents were snow bound. Snow depths ranged from several feet to four feet. THE ONLY COMMUNICATIONS WE HAD WAS THE SER HAM PLAN WHICH UTILIZED ONE OF THE REPEATERS YOU ARE SEEKING TO HAVE REMOVED.

But most recently, over a half-million Californians lost their electricity due to a planned blackout triggered by fears that the state's power lines can't handle heavy wind without risking a wildfire.

"The blackouts will impact 34 counties in Central and Northern California," reported the LA Times. "It would be the biggest power shutdown so far as utilities across the state attempt to reduce wildfire risk due to heavy wind."

Ham repeaters are typically equipped with diesel generators to keep radio broadcasts running during a power outage.

Thanks to Lewis Stroll, KC2SSU and Joe Dreifuss, W2KQ

## MEETING TIMES

The next GSARA meeting will be on Wednesday, November 6 at 7:30 pm at the Red Cross. The double program will feature Hudson Division Director Ria Jairam, N2RJ giving us the latest ARRL news. Guests are welcome and light refreshments will be served.

The next meeting in November will be held on Wednesday, November 20 at 7:30 PM at the Red Cross. This will be a regular business meeting but will also feature the Remote Ham committee bringing us up to date on the work they have done to allow operation of our IC-7300 station from remote locations via the internet. Be there! Guests are always welcome and refreshments will be served.

## VE SESSION

The GSARA monthly test session will be held at the Red Cross Regional Headquarters in Tinton Falls on Saturday, November 23 at 11 am. The fee is \$15 and you should bring the original and a copy of any amateur license presently held and the original and one copy of any credit (CSCE) forms that you have (copies will be sent in with your test results). Also bring 2 forms of ID with one being a photo ID. For more information, contact Rich Bilon, N3RB at 732-567-4396 or n3rb@arrl.net.

### THIS JUST IN

Moments before the Propagator went to print, we learned that John Chunga's (KC2YWL SK) wife passed away on October 6. We had been hoping for both John and Felicia but, sadly, both lost their battles.

## DEMONSTRATING THE WOUFF HANG



Bob Buus, W2OD demonstrating the Wouff Hang antenna raising system at the club meeting last month.

This clever little device was featured in the October 2019 QST magazine that can be found here: <http://www.arrl.org/files/file/QST/This%20Month%20in%20QST/October2019/Lewallen.pdf>

An ingenious, easy-to-implement tree support for your wire antennas.

### The Wouff Hang

**Roy Lewallen, W7EL**  
Other than climbing, common methods to get an antenna support rope over a tree branch include using a bow and arrow and portable gas-type devices. I've often used a slingshot to put up antennas as high as 90 feet for ARRL Field Day. While that works fine for temporary installations, in the long term, the rope will dig into the wood or the tree will simply grow around it, causing the rope to slide and making it impossible to lower the antenna or retrieve the rope. A pulley or other low-friction, low-wear bearing is needed.

The Wouff Hang (see Figure 1) — whimsically named for the famous Wouff Hong from ham radio's history, which is a space evoker — is such a bearing. It can be constructed in a few minutes, is inexpensive, and can be put high in a tree without climbing.

**Construction**

Second, the length of the arm with that fitting must be considerably longer than the pipe stub to prevent the Wouff Hang from rotating around and disengaging from the branch once in place. However, the 45-degree elbow on the short end can be rotated 180 degrees if the antenna end of the rope will be eating more downward than horizontally outward.

I recommend using Schedule 40 or Schedule 80 PVC pipe due to its strength and durability. A second consideration is UV resistance. Most plastics deteriorate with prolonged exposure to sunlight. As trees are inherently shady and PVC pipe is moderately UV-resistant, this might not be a problem at your location. However, some electrical conduit is marked as sunlight resistant, so consider using that when available. Also, a coat or two of latex exterior house paint over a suitable primer on your Wouff Hang will provide extra UV protection.

80 electrical conduit, so I used most of the wear should be on pieces, so the heavier Schedule conduit will increase the length the device.

**The Hanging Process:**  
Before hanging, choose the rope you'll be using with your antenna. Larger diameter rope will cause pressure on the bearing surface, reduce the tendency to cut the Smeother rope will also reduce I recommend using at least 1/2 diameter black braided jacket I rope. I've had a Wouff Hang set quite a few years using 1/2-inch or Depron rope. It has supported numerous antennas with rope use, and the rope still moves a smoothly as if would through a

The hanging process is simple I recommend trying the hang process on a low limb before the Wouff Hang to its final place

# Looking back



## FIVE YEARS AGO

From the November 2014 Propagator: Five GSARA members participated in the NJ QSO Party and racked up 154 QSOs for 8,140 points. Bob, W2OD was selected as GSARA Amateur of the Year. John, KA2F described an amateur radio Public Service event in 1939 when the King and Queen of England came by train to Red Bank and then were escorted out to Sandy Hook. Alan Sherman, W2NIR is planning to participate in the New York Marathon for the 34th time at the age of 78.

## TEN YEARS AGO

From the November 2009 Propagator: Donna Wilkins, KC2GKQ moved to Florida. The Red Cross was asking for donated toys in Operation Santa Run. Frank, W2XYZ; Mike, KC2Q; and Mel, N2MEL are going on a QCWA cruise and will be operating W2MM from the ship. Former Hudson Division Director Paul Vydareny, WB2VUK became a silent key. There was a short article about the Wouff Hong.

## FIFTEEN YEARS AGO

From the November 2004 Propagator: Jeff, N2LXM and Marty, WN2DX organized special event station K2USA at Ft. Monmouth on October 9 with about 12 GSARA participants. The included new Roster shows 68 members.

## TWENTY YEARS AGO

From the November 1999 Propagator: Special event stations to commemorate the 100th anniversary of Marconi's successful operation from Twin Lights were on the air for most of October. OMARC operated N2MO with 819 contacts, GSARA operated W2GSA for over 530 contacts, GSARA also operated from Al Emer's (N2YAC-SK) sailboat in NY harbor as W2OD for 131 contacts. Finally, QCWA operated WA2GM

for about 552 contacts. Thus, a total of over 2000 contacts were made by the various stations. Jean Shepherd, K2ORS became a silent key.

## TWENTY-FIVE YEARS AGO

From the November, 1994 Propagator: This double issue Propagator had 16 pages of news and information plus a 4-page roster showing 132 members. The Shore Area Hamfest at Brookdale College was very successful and profitable. We sold 72 indoor tables and 160 tailgate spaces. The 50-50 netted \$480 and 43 people were processed in the VE test session. The nominating committee could find no one willing to run for President or Treasurer. President Bob, W2OD offered to again run for President but someone else would have to take over the Propagator. At the October 19 meeting, Rich DiFiore, KB2NXA was nominated to run for President and Dave Worrell, N2IRO was nominated to run for Treasurer. Both accepted the nomination. Brad Dargue, KT2U (SK) and Bob Buus, W2OD set up W2GSA as a portable station at Quail Hill Scout Camp for JOTA. Many scouts got on 20 meters as well as 2 meters and talked to other scouts. A report written by Weblos Pack 155 was published on page 6. The FCC is considering vanity call signs and has proposed a \$70 fee for 10 years. The ARRL proposed a one-time fee of \$150 instead.

# FALL HAMFEST PIX

It was all smiles and good ham radio fun at the Autumn Hamfest last month. Hams bought and sold and said hi to one another. The club sold quite a bit of its extra equipment that was laying around the shack and the cage and that brought in a nice sum to buttress up the club's coffers.

Many thanks to the many club volunteers who made it happen from the planning, the setup, the club tables, the ARRL participants, the buyers and sellers and the take-down.



## ARES/RACES NET

Did you know that there is an ARES/RACES net on the W2GSA repeater on the first and third Mondays of each month at 8 PM local time? You don't have to be a member of ARES or RACES to check into the net. We all should be comfortable with checking into a formal net as we never know when we might be called upon to help with communications in an emergency. All are welcome. Check it out!

The GSARA Propagator is designed in InDesign CC 2019  
Editor: Bob Buus, W2OD  
Layout: Cy Stanway, K2CYS

You are invited to submit articles and ideas

## Trying the Digital Modes

If anyone is looking for help with getting operational with digital modes (FT-8, PSK-31, Olivia, RTTY, etc.) please feel free to call on Paul, AD7I, if you would like some assistance. The best way to reach Paul is via email, [ad7i@ad7i.net](mailto:ad7i@ad7i.net)

# BULLETIN BOARD

## Tuesday Net Report

GSARA NET 8:30 PM TUESDAYS

In the first three sessions in October, we had 46 check-ins for an average of 15.3 per session. The following 24 members checked into this net (number of check-ins in parenthesis):

N2AJ0 (3), NA2J (3), AC2MB (3), K2MFS (3), K2NPT (3), W2OD (3), KD2PYO (3), AC2F (2), KZ2G (2), AD7I (2), KA2IRQ (2), N2MEP (2), W2MJP (2), W2NAZ (2), K2RLF (2), KC2YNL (2), N2BMK (1), NF3E (1), KD2EPA (1), KA2F (1), N2HGI (1), KD2NAD (1), KG2NV (1), and KC2RRJ (1).

Mark your calendar so you remember to participate. The more participation, the more fun!



## GSARA Swag

### *GSARA Patches*

We have GSARA patches available at all meetings and they are \$3. Show your GSARA pride!

### *GSARA Hats and Shirts*

Cost is \$21 for Hats and \$25 for Shirts, in your choice of Blue or Stone color. To place your order, send Art [artgold@verizon.net](mailto:artgold@verizon.net) an email with your name, call sign, size (for shirts) and color. Payment will be due when hats and shirts are delivered.

### *Blue Swan Lunches*

A number of local radio amateurs meet each Friday at the Blue Swan Diner on Highway 35 south in Ocean Township at noon. Anyone interested in amateur radio is welcome to join us in the back left corner of the diner.





# Club Benefits



## W<sub>2</sub>GSA CLUB NET

The GSARA weekly net meets each Tuesday evening at 8:30 on the GSARA repeater. Everyone is welcome to hear news of upcoming club events and activities, reports of the latest club news and everyone can share what they have been up to. Please join us. The more participation, the more fun!

## QSL BUREAU

If any GSARA members wish to combine their QSL cards that are going through the outgoing ARRL Bureau, please bring them to the next GSARA meeting along with the label from a recent QST Magazine (you must be an ARRL member to participate in this program). Either John, KA<sub>2</sub>F or Len, WA<sub>1</sub>PCY will then send them on to ARRL at no charge to GSARA members. It couldn't be much easier than that to QSL. You are registered at the W<sub>2</sub> incoming bureau, aren't you?

## GSARA.CLUB/W<sub>2</sub>GSA.ORG

Have you seen the GSARA website lately at <https://www.gsara.club/>? Check it out often for updates, news, announcements and general club information. If you have not yet done so, send us a picture of your shack and a selfie for the Members; Shacks and Our Members page. There is a Members Only Page which will contain important links viewable by GSARA members only including the most current roster and the previous month's minutes from the meeting. Send your selfies to Cy, K<sub>2</sub>CYS at [k2cys@arrl.org](mailto:k2cys@arrl.org). Do you have any other great ideas for the site? Let Cy know.

### THE LATEST EPISODE OF ARRL AUDIO NEWS IS AVAILABLE

07/26/2019

Listen to the new episode of ARRL Audio News on your iOS or Android podcast app, or online at <http://www.blubrri.com/arrl-audio-news/>. Audio News is also retransmitted on a number of FM repeaters. Click here and then scroll down to see the list.

## GSARA Officers

### Officers

Art, N<sub>2</sub>AJO – President

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## NOTES ON CALENDAR (see next page)

Large Call letters denote birthdays e.g. **W2UTR** on November 3. All times are in EST except November 1 and 2 which are EDST. Contests are listed in the November QST, p. 89.

November 1 and every Friday – **Lunch at the Blue Swan Diner** in Ocean at noon. Table at back left.

Nov. 2-3 – **ARRL Sweepstakes**, CW from 5 pm Saturday to 10:59 pm Sunday. See <http://www.arrl.org/sweepstakes>

November 2 – **EDST Ends early Sunday morning**. Set clocks BACK one hour when you go to bed.

November 4 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

November 5 – **Old Barney VE Test Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, WIUL at 609-296-5856 or [urb@w2dec.com](mailto:urb@w2dec.com)

November 5 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

November 5 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.

November 5 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

November 6 - **W1AW Qualifying Run** at 9 am (10-35 wpm). See November 2019 QST page 91 and [www.arrl.org/qualifying-run-schedule](http://www.arrl.org/qualifying-run-schedule)

November 6 – **GSARA Program Meeting** at the Red Cross at 7:30 pm. The program will feature Hudson Division Director Ria Jairam, N2RJ giving us the latest ARRL news. Refreshments will be served.

November 7 – **Holiday City ARC Meeting** at 7 pm at Holiday City South Clubhouse in Toms River.

November 9 – **OMARC Meeting** at 9:00 am at the Firehouse on 600 Sixth Ave. in Spring Lake Heights. Guests are always welcome.

Nov. 9-10– **CQ WE Contest**, all modes from 2 pm Sat. to midnight Sun. See <http://cqwe.cboh.org/rules.html>

November 9 – **North American SSB Sprint** from 7 pm to 11 pm. See <http://ssbsprint.com/rules>

November 13 – **Holiday City VE Session** at 7 pm in Toms River. Contact is Larry Puccio, K2QDY at 732-349-2950 or e-mail at [lpuccio1@comcast.net](mailto:lpuccio1@comcast.net)

November 14 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

Nov. 16-17 – **ARRL Sweepstakes**, SSB from 4 pm Sat. to 10:59 pm Sunday. See <http://www.arrl.org/sweepstakes>

November 18 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

November 20 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. This will be a regular business meeting followed by the Remote Ham committee bringing us up to date on the work they have done to allow operation of our IC-7300 station from remote locations via the internet. Don't miss it. Refreshments will be served.

November 20 – **W1AW Qualifying Run** at 7 pm (10-35 wpm). See November 2019 QST page 91 and <http://www.arrl.org/qualifying-run-schedule>

November 21 – **JSARS VE Test Session** at 7:00 pm Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Genoio, WA2NDA at 609-971-2792 or [wa2nda@comcast.net](mailto:wa2nda@comcast.net).

Nov. 22-24 – **CQ WW CW DX Contest** from 7 pm Friday to 6:59 pm Sunday. See <http://www.cqww.com>

November 23 – **GSARA VE Test Session** at 11 am at the Red Cross Regional Headquarters in Tinton Falls.

## NOVEMBER 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 Blue Swan Lunch	2 CW Sweepstakes Clocks back 1 hr.
3 <b>W2UTR</b> CW Sweepstakes	4 ARES/RACES 8 pm	5 Old Barney GSARA Net 8:30 QCWA News 9 PM	6 CW Qual. Run GSARA Mtg	7 HCARC Mtg	8 <b>KG2NV</b> Blue Swan lunch	9 OMARC Mtg. CQ WE SSB Sprint
10 CQ WE	11	12 Old Barney GSARA Net 8:30 QCWA News 9 PM	13 Hol. City VE	14 JSARS Mtg	15 Blue Swan lunch	16 <b>KB2USF</b> SSB Sweepstakes
17 SSB Sweepstakes	18 ARES/RACES 8 pm	19 Old Barney GSARA Net 8:30 QCWA News 9 PM	20 CW Qual. Run GSARA Mtg	21 <b>KD2OXR</b>  JSARS VE	22 Blue Swan lunch CQ WW CW DX	23 GSARA VE CQ WW CW DX
24 CQ WW CW DX	25 <b>KD2OBV</b> <b>KC2VIN</b>	26 <b>W2KQ</b> CW Qual. Run Old Barney GSARA Net 8:30 QCWA News 9 PM	27	28 Thanksgiving Holiday	29 Blue Swan lunch	30

Do you have a picture of your much younger self (25+ years ago) in your shack. Send it to Cy, K2CYS at [k2cys@arrl.net](mailto:k2cys@arrl.net) and share that picture with the club!



8 DONNER STREET  
HOLMDEL, NJ 07733

First Class