

Stockton-Delta Amateur Radio Club



AN ARRL AFFILIATED CLUB

WWW.W6SF.ORG

July 2020

Welcome to the Stockton-Delta Amateur Radio Club

JULY MEETING ANNOUNCEMENT **THURSDAY, JUNE 11TH** **Meeting starts at 7:00 PM**



SOLAR POWER YOUR STATION

VIRTUAL MEETING
USING ZOOM

VIDEO CONFERENCING

DO NOT GO TO THE SAILING CLUB MEETING
ROOM... THERE WILL BE NO ONE THERE

QST QST QST... The July meeting of the Stockton-Delta Amateur Radio Club will be held on Thursday, July 9th starting at 19:00 hours. The meeting will be VIRTUAL – ON-LINE using Zoom Video Conferencing as our platform. I have copied the invitation here, but you can join via the webmail link that will be on the W6SF website. Following the business meeting, Fred K6FVC will be giving a lesson on Solar Power for your shack with minimal RFI. Solar Power is a great way to create a shack that can continue to transmit and be a vital connection in a disaster or a PG&E PSPS event.



Tell your friends about this exciting meeting and plan on attending!

Topic: W6SF SDARC MEETING FOR JULY 2020 - SOLAR POWER FOR THE HAM SHACK
Time: Jul 9, 2020 07:00 PM Pacific Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/84663165894>

Meeting ID: 846 6316 5894

One tap mobile

+16699009128,,84663165894# US (San Jose)

+12532158782,,84663165894# US (Tacoma)

Dial by your location

+1 669 900 9128 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 301 715 8592 US (Germantown)

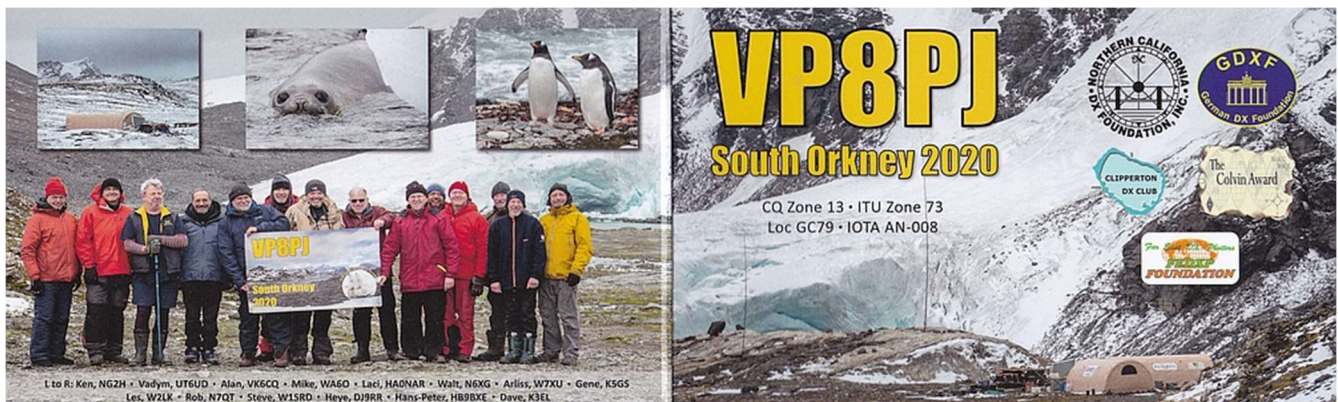
+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

Meeting ID: 846 6316 5894

Find your local number: <https://us02web.zoom.us/j/84663165894>

South Orkney QSLs are being sent – check the logbook at <https://sorkney.com/qs/>



PRESIDENT'S CORNER

- Bob, N6TCE



Hello all!

Field 2020 Day is behind us, I have been getting reports of some nice scores from a few operators. I hope everyone had fun, and stayed safe.

Big thanks go out to John (NZ6Q for the antenna planning, Dave N6LHL who secured the rental of the Port-a-Potty and batteries, Charlie, WB6NVB for the use of his vineyard and everyone who showed up to set-up, support and take-down.

I think it might be a great idea if members would write up their reports on this event and give us your ideas how to improve Field Day 2021.

We have a demonstration planned for the next virtual meeting. Fred K6FVC will be presenting on the subject Solar Power in your ham shack The Zoom address and password will be sent out in an E-Mail, posted on the club website, Facebook page and it's right here in the Electronic Newsletter. Our last meeting had a world-wide audience including a ham in Thailand.

Our August meeting is in the planning stage. This is the meeting we normally would have our annual club sponsored potluck and Bar-B-Que along with a great lesson in Radio Direction Finding or "Fox Hunting" from Mike K6MDS. We are hoping to use the picnic pavilion located at the Stockton Sailing Club. This is a very wide-open space and not only allows for more social distancing but new and interesting possibilities for hiding the fox. The date is August 13th starting at 6:30 for dinner and 7:00 for the hunt.

Our license exams have been full all through the pandemic. There are many new hams on the air. When you hear one of them, say hello, welcome them to the hobby and invite them to join the next net or club meeting. Ask them if you are their "First Contact". If the answer is a yes, that is great. The next thing to do is to go to the ARRL website and complete the "ARRL First Contact Certificate" application so that they will be recognized for their first QSO.

The URL is: <http://www.arrl.org/first-contact>

It takes a few minutes to fill in the blanks and the address which it is sent to is usually the address shown on QRZ or the FCC database,

<https://wireless2.fcc.gov/UlsApp/UlsSearch/searchAdvanced.jsp>

Recently on the ARRL Weekly Letter, I saw something worth passing around. It is of interest to a few of our youth members. If you know a youth Amateur Radio operator in your neighborhood, forward this next paragraph to them.

Intrepid-DX Group Announces Youth Essay Contest. The Intrepid-DX Group, a US-based IRS 501(c)(3) nonprofit organization that promotes amateur radio in developing countries, has announced its first Youth Essay Contest. The prize is a new Icom IC-7300 transceiver, which the winner must agree to keep and use for 1 year. Participants will submit a two-page essay answering these questions: (1) What are your amateur radio goals? and (2) What can we do to attract more youth to amateur radio? The competition is open to US amateur radio licensees aged 19 or younger. Submit essays in text or MS Word attachment by July 31, 2020, or mail to The Intrepid-DX Group, 3052 Wetmore Dr., San Jose, CA 95148, postmarked by July 31, 2020. The winner will be announced on August 10 on the Intrepid-DX Group website and on its Facebook page. Email for more information. The Intrepid-DX Group hopes to make the Youth Essay Contest an annual event.

At the December meeting for the Pacific Division a suggestion was made and followed up to most people's satisfaction. It was pointed out that the additional cost to distribute was all magazines was zero so why not offer them for free to members of the ARRL. It took a few months and the Roll out for Mobile applications to be written but now the members have full access to all three magazine in electronic format. There are apps for Apple and Amazon Kindle. I believe there is also an application for Android devices, as well.

For all ARRL members, we can access the electronic versions of the following magazines in addition to QST. The cost of membership is about equal to cost if you had them mailed to you. That makes being a member very cost effective. The club saves money by being a ARRL affiliated club on our insurance expenses.

NCJ -- National Contest Journal. Published bimonthly, features articles by top contesters, letters, hints, statistics, scores, NA Sprint, and QSO parties.

QEX -- A Forum for Communications Experimenters. Published bimonthly, features technical articles, construction projects, columns, and other items of interest to radio amateurs and communications professionals.

On the Air -- a new bimonthly magazine for new Amateur Radio Operators. ARRL members can choose which magazine to receive in print, and can view the digital editions of both magazines online.

Until next month, everyone stay safe, get on the air!

Bob Officer
President
Stockton-Delta Amateur Radio Club



**HOW DID YOU DO IN
THE JUNE VHF/UHF
CONTEST?**



MONDAY NIGHT NET CONTROL OPERATOR'S SCHEDULE

The club holds a weekly net every Monday night beginning at 8:00PM on the **W6SF** Repeaters on 147.165Mhz VHF and 444.250Mhz UHF. Club Repeater information is listed at the end of the newsletter.

If you would like to learn how to be a Net Control Operator, contact one of the club Officers! We will happily mentor you during a Monday night net. This is a great opportunity to improve your operating skill in a "minimal" pressure environment. The Schedule and Net Control Script are available on the club website at....

<http://www.w6sf.org/netcontrolscript.html>

Thank you for volunteering to be our Monday night net controllers for July, August and September. Your assigned dates are listed below. We are now showing assignments for both the 7pm Tech Net and the regular 8pm club net, to aid in coordinating the two.

Please contact KG7OR if you need to reschedule an assignment on the Tech Net. Contact Dave N6LHL for anything concerning the regular 8pm club net.

Additional volunteers are always welcome for both nets and will help to share the load. Contact me or KG7OR if you are willing or can convince someone else!

<u>Date</u>	<u>7pm Tech Net</u>	<u>8pm Club Net</u>
July 6	Eric K6ODS	Ron KG7OR
July 13	Ron KG7OR	John NZ6Q
July 20	Jim WB6BET	Eric W6INP
July 27	Brent W6YNO	Dave N6LHL
August 3	Paul N6KZW	Mike K6AAN
August 10	Eric K6ODS	Paul N6KZW
August 17	Ron KG7OR	Bob N6TCE
August 24	Jim WB6BET	Charlie WB6NVB
August 31	Brent W6YNO	Ron KG7OR
September 7	Paul N6KZW	John NZ6Q
September 14	Eric K6ODS	Eric W6INP
September 21	Ron KG7OR	Dave N6LHL
September 28	Jim WB6BET	Mike K6AAN
October 5	Brent W6YNO	Paul N6KZW



W6SF JUNE MEETING REPORT THURSDAY JUNE 11TH 19:00 HOURS

The June 2020 meeting of the Stockton-Delta Amateur Radio Club was called to order at 1900 hours by President Bob N6TCE. The meeting was held virtually using Zoom Conferencing. Several of the officers gave reports

John NZ6Q reported that Field Day shirts had arrived and most had been delivered. Those who ordered Field day mugs were on hold and back-ordered. John also gave a report on rule changes for 2020 that would allow 1D “home” stations to work each other for QSO credit and the roll-up of individual efforts into a club score.

John NZ6Q along with Charlie WB6NVB walked participants through the 2020 Field Day club plan to safely offer a 6A category. We discussed the different bands, radios and antennas we would be using.



The meeting was adjourned at 2040 hours. There were 34 members and guests in attendance. The next scheduled meeting of the Stockton-Delta Amateur Radio Club is Thursday, July 9th and the topic will be Solar Power in the Ham Shack.

Depending on the decisions of state and local health authorities, the BoD will decide if the meeting will be virtual or back at the Stockton Sailing Club.

73,

Annie N6ACL, Secretary



HamExam in Isolation

June 6th & 20th Test Session Results

Responding to the increasing demand from people wanting to get their Technician Class License or upgrade, we added several Test Only sessions at the Stockton Sailing Club.



Test sessions were added on June 6th and June 20th. Thanks again to the Stockton Sailing Club for hosting this opportunity and others coming up over the summer months for people to get their Amateur Radio License.

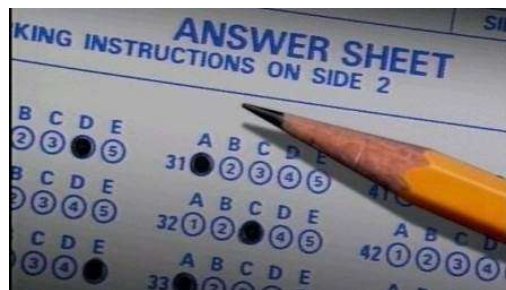
When you here these hams on the air, be sure to congratulated them and – if they are new, welcome them to the hobby and the club!

KN6ETM	Ramal Lamar-El	Extra Class	KN6HAH	Tyke Woden	Extra Class
KN6DBZ	Jose Davis	Extra Class *	KK6VE	Peter Henry	Extra Class
KK4KWV	William Benedict	Extra Class	KM6WDM	Michael Adams	Extra Class
KN6IOR	Dennis Hilbero	General	KN6IOK	Alva Hill	General *
KN6JES	Samual Alford	Technician	KN6JTT	Jonathon Garcia	Technician *
KN6JET	Justin Rapetti	Technician	KN6JJU	Kip Wilkins	Technician
KN6JFM	Daniel Johnson	Technician	KN6JJV	Maurice Wright	Technician
KN6JEU	John Welsh	Technician	KN6JJW	Jeffrey Giron	Technician
KN6JEV	Michael McBride	Technician *	KN6JJX	William Zech	Technician
KN6JEX	Helen Hilbero	Technician	KN6JJY	Michael Marfell	Technician
KN6JEY	Brandon Byrd	Technician	KN6JJZ	Mikhail Zhidko	Technician
KN6JEZ	Noah Russell	Technician	KN6JKA	Bertha Alexander	Technician *
KN6JFA	Elaina Hilbero	Technician	KN6JKB	John Alexander	Technician *
KN6JFB	Tony Giotta	Technician *	KN6JKB	Michael Finney	Technician *
KN6JFC	Ankush Kapoor	Technician	KN6JKC	Michael Absher	Technician *
KN6JFD	Michael Sterret	Technician	KN6JKD	John Bell	Technician
KN6JFE	Richard Byrum	Technician	KN6JKR	Brad McDougal	Technician
KN6JFF	Eric Pearson	Technician *	KN6JKE		

* Denotes New W6SF Club Member

Remember to welcome our new hams when you hear them on the air. If you are fortunate enough to be their first contact, please take a moment to acknowledge it by completing the “First Contact Award” information on the ARRL website at:

<http://www.arrl.org/first-contact>



Next HamExam session is our HamCram on Saturday August 8th at Fire Station #2

FIELD DAY 2020 REPORT

JUNE 27TH & 28TH

W6SF FIELD DAY SITE ON DeVRIES RD



W6SF club members gathered early Saturday Morning for the start of this year's Field Day. Antenna preparations began soon after daybreak with Charlie WB6NVB, Dave N6LHL, Paul N6XZW, Erin KM6LDD, Dave KN6IWI, Scott K6NEZ and others setting up the 2nd tower for the 40/80 Meter Dipole antenna and the 6 Meter Vertical. Originally we had planned on erecting the club Hexbeam on top of the same tower but we had a last minute problem locating a box containing the

spreaders so the Hexbeam was replaced by the MFJ all band 80 – 6 meter vertical.

A second 40/80/160M dipole had been erected Friday evening along with the club tri-band Yagi antenna.

Antennas for 2M & 440M weak signal CW-SSB work would follow and a trap vertical for the GOTA station. We set-up operating positions facing the open air of the covered area and this allowed us to connect directly to the 135Ah batteries we had received from NorCal battery for the event. At almost 100lbs per battery they were not something to move around easily. (Thank you Mark W6SXA for the unloading and set-up help) This configuration also allowed for easy connection to all antennas and tri-plexer combiner/filters were used to allow multiple stations on the multi-band antennas.



Mark W6SXA set up his solar charging system to keep batteries fully charged, but the 135Ah capacity per radio or set of radios appeared to easily be able to “go the distance” of a 24-hour event. Not a single radio seemed to suffer from voltage related problems.

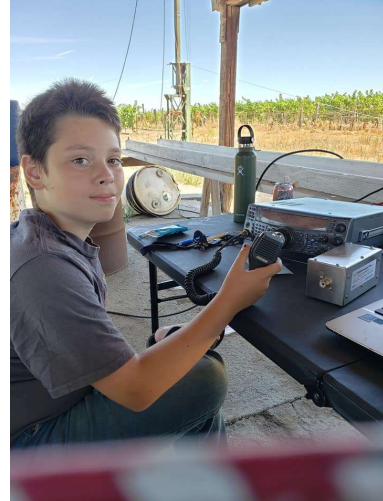


Erin KM6LDD put us on the air first with 20M FT-4 and FT-8 digital modes. Dave N6LHL to the helm of the 40-Meter station while John NZ6Q and Annie N6ACL connected computers and finished testing and installations. 15-Meter and 10-Meter openings along with activity up and down the valley on 6M, 2M and 70cm bands would keep people on all the radios most of the day.

Social distancing guidelines observed included repeated “wiping down” disinfecting of keyboards, computers, radio, headsets, and microphones. Many operators brought their own headphones. Scott K6NEZ and others even brought their own microphones



Throughout the day and into the evening, while the bands were good, the number of visitors from around the area that came to check things out, talk about getting their license or just get a chance to get on the air kept most of the club leadership busy. It seemed like we had just set up when it started getting cooler and darker. The "night shift" consisted of Erin KM6LDD who kept things busy both on digital as well as voice modes, Annie N6ACL on SSB and John NZ6Q picking up where Fred K6IJ's impressive CW list had been earlier in the day.



Sunday morning again had good operating conditions and we continued to make QSOs right up to the 11AM stop for our station. Take down commenced pretty quickly thereafter and by 1:00 PM things were pretty much cleaned up, put up and ready to pack up for the next contest.

The 100lb batteries were offered for sale to club members at a cost of \$50 each and they were all sold by the end of the event. If you're interested, contact John NZ6Q as the club is on the "waiting list" for more.

Scores are being tabulated and a report should be ready by the July 9th club meeting.

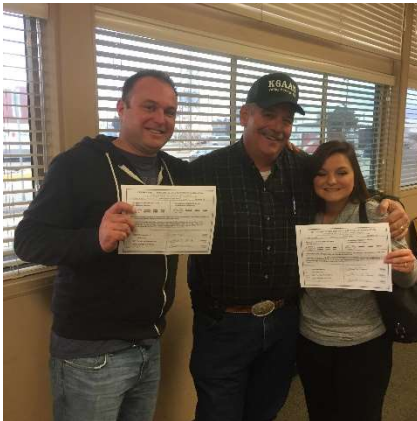




Several club members put in “Field Day at Home” efforts in the 1D, 2D, B and E classifications. Be sure to use the Stockton-Delta Amateur Radio Club – club affiliation – in the drop down menu if you’re submitting your log on line or write “Stockton-Delta Amateur Radio Club” across the top of your score submission if you’re mailing it to the ARRL. All logs / scores must be submitted by July 28th.

Editor’s Note: Personally I operated less this year than in previous years, but I have to say to all of you that came out (visitors and members) “Thank you, Thank you”. You all made this Field Day one of the most fun I’ve ever had....

Special Thanks to Dave N6LHL who provided the majority of the pictures !



AUGUST HAM CRAM STOCKTON FIRE STATION #2 110 W SONORA ST, STOCKTON

**SATURDAY AUGUST 8, 2020
DOORS OPEN 7:45 AM**

The Fire Station is open and we are scheduled for our next HamCram on Saturday August 8th.

“Get Your License in a Saturday” is the perfect solution to getting your ham radio license in today’s busy world. No tedious preliminary home study. No long, boring once-a-week classes. You attend for just one day, 8:15 AM to 3:30 PM, and you’re done. Tell your unlicensed friends to sign-up early as seating will be limited due to social distancing guidelines. HamCram is a \$20 fee to cover the cost of the materials.

Testing-Only Also Available

The FCC exam session starts at 3 PM. There will be no walk-ins allowed. You must pre-register if you want to take the test. You do not need to attend the HamCram just to take an exam. If you’ve paid to attend the HamCram, the exam is included.

Sign up for the next HamCram clicking the link [here](#).

REPEATER USAGE DO'S & DON'T'S

W6SF 147.165MHz / 442.250 MHz

1. During times of peak use, please keep transmissions short on all repeaters and pause long enough between them to allow emergency traffic to break in.
2. Please be courteous in your use of the repeaters. Keep conversations to a length that will allow others to enjoy the machines too. Do not break into a QSO unless you are certain you will be welcomed and you have something to add to the conversation.
3. Please use common sense and good taste during QSOs. Do not use profanity or make suggestive or off-color remarks or jokes. Likewise, conversations of a very trivial, personal, critical, or negative nature are inappropriate. Remember that many individuals—including non-hams—may be listening, so please do your part to leave a good impression of the Amateur Radio Service and SDARC with our audience.
4. Please keep testing on repeater frequencies to a minimum. DO NOT “kerchunk” the repeater to see if it is on the air. If you do, you must identify your station. It is not OK to transmit without identifying.
5. If you hear a new callsign on the repeater it might be a new ham. Meet them on the air like you would a new person at a club meeting. Listen and offer assistance and answer questions. Invite them to the Monday night and Thursday night nets.
6. Visitors are welcome on the W6SF repeaters. Please assist any visiting amateur who requests help.
7. The repeaters have timeout circuits that automatically shut the transmitters down in the event there is a steady carrier on the input frequency for longer than 2 minutes. To reset this timer, wait to hear the “courtesy tone” (a beep) before replying to the other person’s traffic. You don’t have to let the repeater transmitter drop off completely.
8. Please identify clearly at the beginning and end of each conversation, as well as every 10 minutes during the conversation if it exceeds 10 minutes in length. If breaks between exchanges exceed a minute in length, please treat the next transmission as the beginning of a new conversation (ie, identify). These guidelines differ somewhat from FCC identification requirements but work well for our large number of users.



Please read the following Repeater Tips from the ARRL. They offer other suggestions for proper and courteous repeater operation.

DOs

- Do keep all transmissions short. Emergencies don't wait for monologues to be finished. If you want to hear your own voice, what you want is a tape recorder, not an FM rig.
- Do think before you transmit. If you can't think of anything worth saying, don't say anything.
- Do be courteous. A repeater is like a telephone party line and requires the same kind of cooperation in its use.
- Do pause a couple of seconds between exchanges. Someone with a high priority need for the repeater may want to break in.
- Do use simplex whenever possible. Leave the repeaters available for those who need them.
- Do support your local repeater club. Maintaining a good machine is an expensive and time-consuming undertaking, and you should do your share



DON'Ts

- Don't monopolize a repeater. The best repeater users are the ones who do a lot of listening, and little transmitting.
- Don't forget that what you say over a repeater can be heard over thousands of square miles — by anyone with an inexpensive scanner or public service band monitor. These people are potential hams; if they like what they hear on the air, they will want to get licenses and join us. Don't leave them with a bad impression of our hobby by making thoughtless or off-color remarks.
- Don't break into a contact unless you have something to add and you're sure you'll be welcomed. Interrupting is no more polite on the air than it is in person.
- Don't try to prove what a great operator you are by criticizing the operating techniques of others on the air. Instead, set an example that others will be proud to follow.
- Don't forget that amateur radio is allocated frequencies because it is a service, not just a hobby. Don't neglect the public service aspects of VHF/UHF FM communication, such as accident reporting, emergency preparedness, etc.

PACIFICON 2020

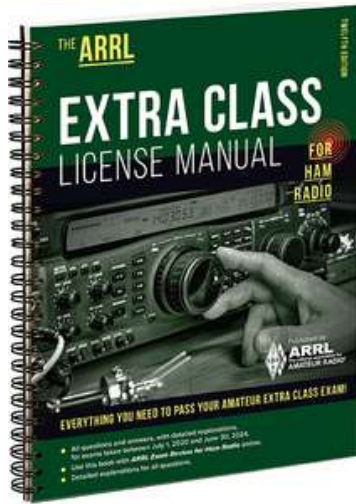
ARRL Pacific Division Ham Radio Convention
Produced by the Mount Diablo Amateur Radio Club



Due to the Covid-19 Pandemic Pacificon 2020 has been cancelled. A virtual session may be offered in its place.... Stay tuned

New Extra Class License Manual and Extra Q&A Now Available – New Question Pool in effect July 1, 2020

Go all the way to the top! ARRL has everything you need to pass the Amateur Extra-class license exam with confidence.



[The ARRL Extra Class License Manual for Ham Radio](#) is your ticket to every privilege granted to amateur radio operators -- all frequencies, operating modes, and power levels. It has all the questions and answers, with detailed explanations, for examinations taken between July 1, 2020, and June 30, 2024.

Use this book with [ARRL Exam Review for Ham Radio](#) online to review the material. You can even take practice exams, so there are no surprises on exam day!

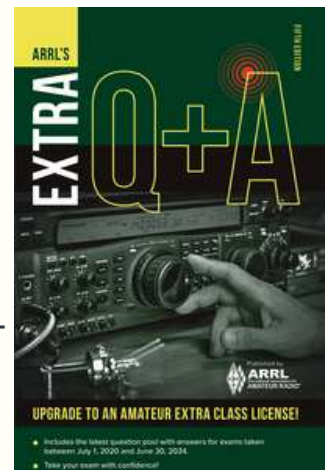
When you've successfully passed the exam, *The ARRL Extra Class License Manual* will serve as your reference as you explore your new privileges!

If you're looking for a more direct route to studying for the exam, [ARRL's Extra](#)

[Q&A](#) contains all exam questions and the answers.

To upgrade to Amateur Extra class, you must already hold a General-class license (or have recently passed all of the exam elements required for a General-class license).

[The ARRL Extra Class License Manual](#) new 12th edition spiral bound (ARRL Item No. 1311, ISBN: 978-1-62595-131-1, \$32.95 retail) and [ARRL's Extra Q&A](#) new 5th edition (ARRL Item No. 1335, ISBN: 978-1-62595-133-5, \$19.95 retail) are now shipping. Order from the [ARRL Store](#), or find an [ARRL publication dealer](#). For additional questions or ordering, call 860-594-0355 (toll-free in the US, 888-277-5289). Both [The ARRL Extra Class License Manual](#) and [ARRL's Extra Q&A](#) are available as an e-book for the Amazon Kindle.



Shhhhhh!!! i'm
hunting wadlios!

-Elmer Fudd

AUGUST MEETING ANNOUNCEMENT THURSDAY, AUGUST 13th 6:00 PM STOCKTON SAILING CLUB PAVILLION 4980 BUCKLEY COVE WAY

Get ready for the annual SDARC Bar-B-Que and potluck and Transmitter Hunt.

We are planning on serving dinner starting around 6:30 PM and start the meeting with Mike K6MDS transmitter hunt training at 7:00 PM. Fox Hunting commences at 7:30PM

Don't have a directional antenna? Here are simple plans and you get 6 weeks to build one! Need Help? Paul N6KZW, Mark W6SXA and John NZ6Q and many others are great antenna builders...

The Tape Measure Antenna

Introduction: The Tape Measure Antenna



Are you looking for an easy kid friendly project? Are you looking for a project to encourage a new generation of ham radio operators?

This project is unusual, so it's something that will certainly capture the attention of anyone, particularly a kid. It's an antenna built out of PVC pipe, a tape measure and a handful of hose clamps. Disclaimer: This project isn't new; it's not even my idea or design. I used the design from Joe Leggios (WB2HOL). The plans to his antenna are [here](#).

Materials List

3/4" Schedule 40 PVC Pipe - at least 25"

6 hose clamps big enough to fit around the PVC pipe

1 3/4" PVC tee

2 3/4" PVC crosses

8' RG-58 cable with a connector attached to one side. I soldered a female BNC to mine.

5" wire. I used 18 gauge solid copper wire, but I'm told anything works.

Rosin core solder

Tape measure with 1" wide tape

PVC glue

Tools Needed

Soldering iron
Tape measure
Pipe cutters
Wire stripper
Shears or scissors
Sand paper
SWR Meter
Screwdriver or wrench for tightening the hose clamps

Step 1: Cutting the Elements and Assembling the Boom



You'll need to cut two pieces of PVC pipe. One piece will be 17 1/2". The other 7". This, along with the PVC connectors, will form the frame of the antenna.

Assemble the pipe to form the frame ("boom") of the antenna. Gluing each piece together, the 17 1/2" piece connects between the tee and the first cross. The PVC tee is the front of the antenna. The 7" piece connects between the first and second tees.

Disassemble the tape measure by pulling the tape out of the case. If you pull the tape past its end, you'll find that it's connected to a spring. Simply twist the tape so it disconnects from the spring.

Cut the tape at 35 1/8". This will be the director of the antenna and will attach to the front of the antenna.

Cut two 17 3/4" long pieces of the tape. These will serve as the driven elements.

Cut an additional element from the tape. This will need to be 41 3/8". This is the reflector element.

Sand all the ends of the elements so they are smooth to the touch. These are extremely sharp if left un-sanded. Also sand off about 1/2" of paint on the ends of the bottom side of the driven elements. This will be where you will solder the wires later.

Note: If you are going to mount the antenna, set it up so the antenna will be forward of the mounts. Yagi antennas may suffer in performance if mounted elsewhere, like the center of the boom.

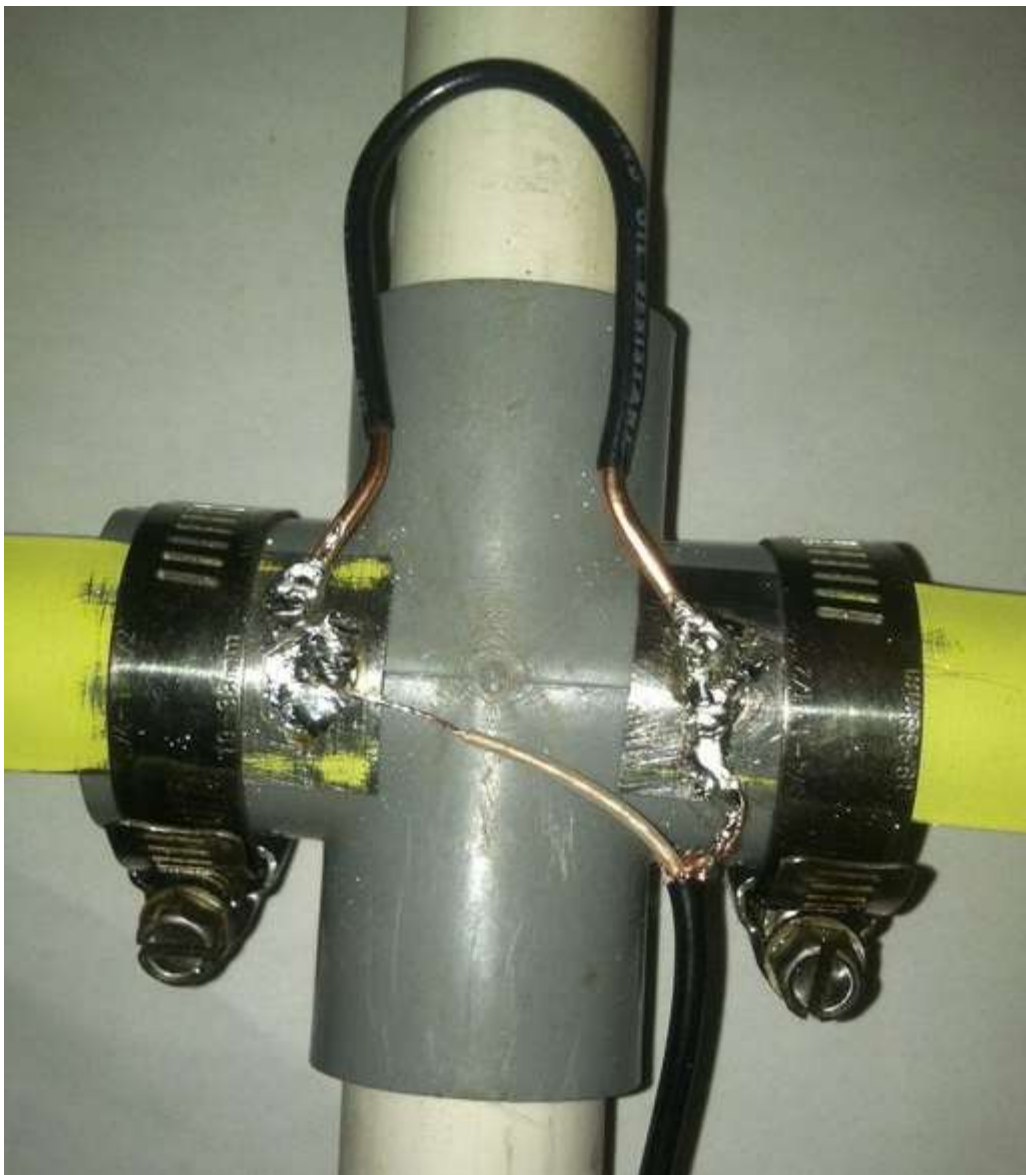
Step 2: Installing the Elements of the Antenna

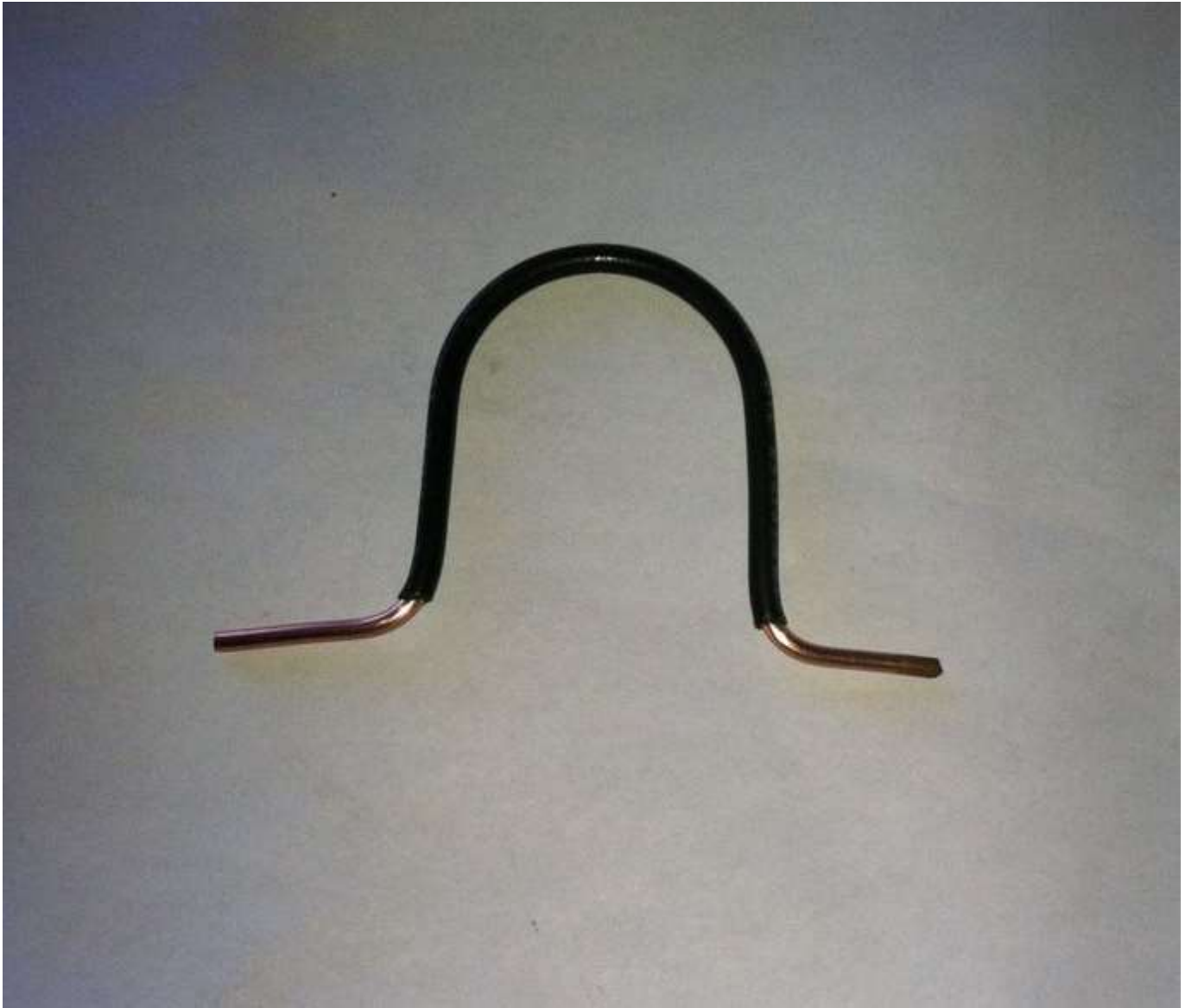
Slip the hose clamps over the PVC tee at the front and slip the Director element under it. Tighten the hose clamps so it is secure.

Attach each of the driven elements to the frame of the antenna with the sanded sides facing each other. Before securing the elements, space the elements 1" apart and tighten the clamps.

Finally, attach the reflector element at the rear of the antenna and tighten the clamps.

Step 3: Soldering the Wires





Now you will tin the ends of the driven element. Simply heat the soldering iron and apply solder to the tape measure at the sanded spots. Make small pads where you can solder two wires to each side of each driven element.

Strip the end of the RG-58 cable and isolate the outer and inner wire. Solder one side of the RG-58 to a driven element and the other to the opposite driven element.

Strip the 5" piece of 18 gauge (or whatever wire you have) and solder a side to each of the driven elements.

I chose to add an optional piece of PVC and an elbow at the rear of the antenna to make it easier to hold and/or mount. I also chose not to glue the PVC together so the antenna can be broken down for storage.

Step 4: Adjusting the Antenna

Adjusting the antenna is very simple. Simply attach a SWR meter between the antenna and the radio. Adjust your radio to 146.580 mhz and check your SWR reading. If the reading is more than 1.2 to 1, turn off your radio and adjust the driven elements by loosening the hose clamps and moving the elements toward each other. Turn on your radio and check your SWR again. Repeat until your SWR is at an acceptable level. I was lucky and my antenna registered extremely close to 1 to 1 without adjustment.

When adjusting the driven elements make sure your radio is off.

Step 5: Technical Notes

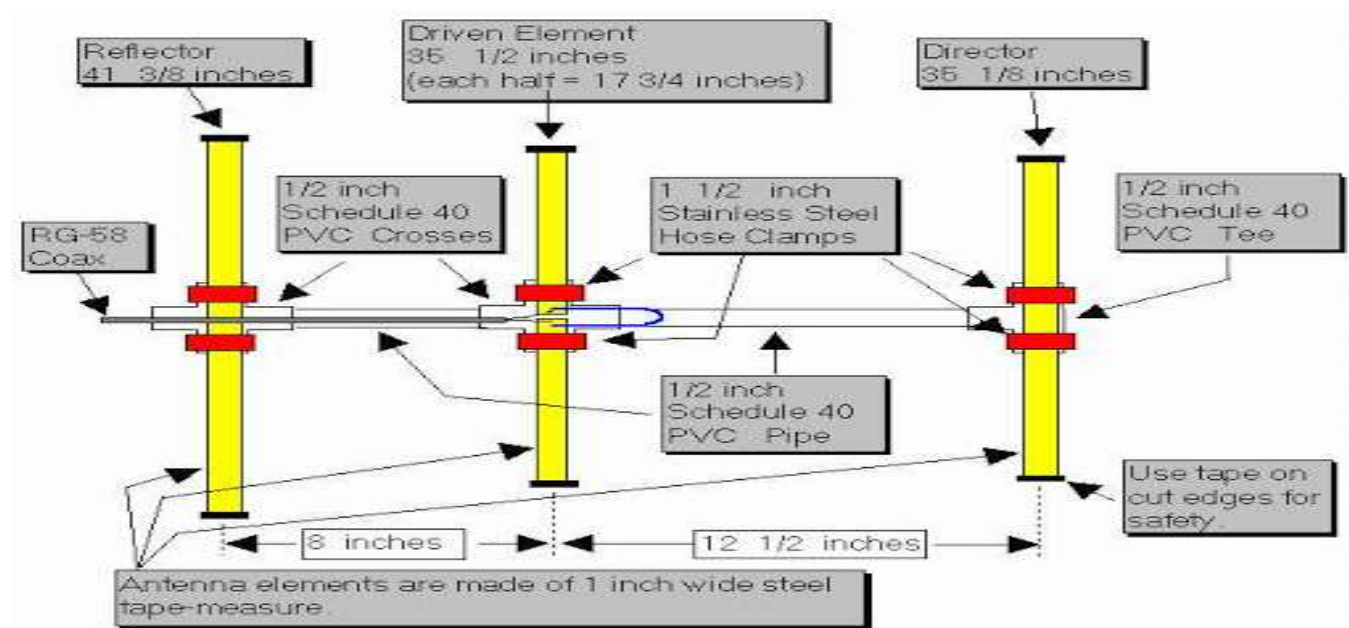
Software modeling programs show that this antenna should have a gain of 7.3 dBd.

Real world experience: Running a HT at 5 watts, my nephew and I were able to use a repeater 65.7 miles away, with reports of a clear signal. We were also able to access several other repeaters that are 40 to 50-miles away. Performance will vary based on your location.

While this antenna is designed for VHF two-meter operations, it can easily be redesigned for other frequencies like 1.25 meter, 70 cm or 33 cm. There are many websites that will calculate the length of and length between the elements on a Yagi-Uda antenna. You can try Martin Meserve's (K7MEM) online calculator [here](#).

The original plans for this antenna are available at Joe Leggios (WB2HOL) website. A link to the plans is [here](#).

Additional plans are available from KC0TKS' website [here](#), as well as from NT1K's website [here](#).



2020 CLUB MEETING DATES & PROPOSED TRAININGS

January 9	Annual General Meeting, W1SRD Dulcie Island
February 13.....	Meeting – E911 Center Tour
March 12.....	Meeting – Radio for the Rest of Us Presentation
April 9	Meeting – DMR Basics – Vince KM6IRY (VIRTUAL)
May 14.....	Meeting – Amateur Satellites – Fred K6FVC (tentative)
June 11	Meeting - Field Day Final Prep
July 9	Meeting – Hot Air Balloon Project
August 13.....	Meeting - T-Hunt/BBQ Potluck – Location TBA
September 10.....	Meeting – Solar Power – Fred K6FVC
September 26	Club Breakfast Meeting – 9:30 – Location TBA
October 8.....	Meeting - Nominations for Officers 2021 – Program TBD
November 12	Meeting – Elections – Program TBD
December 10	Christmas Dinner / Year End Celebration
December 31.....	Cosmic Bowling & Straight Key Night

HamCrams for 2020 – 7:45 AM Fire Station #2

February 8th April 4th **August 8th** October 10th December 12th

Ham-U Training Day – 8:00 AM Fire Station #2

September 12th (moved from previously announced date of March 14th & May 16th)

Club Events 2020

February 22 nd – Pedaling Paths Ride	Devinci's Deli, Linden, CA
March 21 st – STEAMFEST 2020	Lincoln High School – CANCELLED
March 22 nd – Ride/Walk 4 Art	Valley Springs – CANCELLED
April 25 th – Stockton Sailing Club Event	Stockton Sailing Club – CANCELLED
April – May – Weed-Whacking on the hill	Fiddletown Repeater Site - TBD
May 3 rd – Delta Century Ride	Jessie's Grove Winery - CANCELLED
Jun 5 – 7 – Museum Ships Weekend	USS Lucid, Stockton, CA - CANCELLED
June 20 – Kids Day	Stockton Libraries – CANCELLED
June 27 – 28 – ARRL Field Day	Club Field day Site, Stockton, CA
July 4 – 4 th of July Parade	Downtown Stockton – CANCELLED
September 26 – Club Breakfast Meeting	Location TBD
September 26 - Miracle Mile Car Show Event	Miracle Mile
October 3 - 4 – California QSO Party	Club Field Day Site, Stockton, CA
October 16 – 18 – Pacificon 2020	San Ramon Marriott – CANCELLED
November 1 – Giro D' Vino Ride	Woodbridge Winery, Acampo, CA
November 14 – 15 ARRL Sweepstakes Phone	Club Field Day Site, Stockton, CA
November 26 – Run Against Hunger	Waterfront – Downtown, Stockton, CA
December 11 – 13 – ARRL 10M Contest	Club Field Day Site, Stockton, CA



A HAM'S CALENDAR

July 9th, 2020 – SDARC July Meeting - 1900 hours, VIRTUAL MEETING ON ZOOM – K6FVC Fred's Solar Power for your Ham Shack... All members are encouraged to attend – check out the Zoom info in this newsletter

July 11th – 12th, 2020 – IARU International HF World Championship - 1200Z on Saturday thru 1159Z on Sunday (24 hours) Join Amateurs around the world on HF SSB and CW working each other and IARU Headquarters stations.

August 1st – 2nd, 2020 – North America QSO Party CW - 1800Z on 8/1 to 0559Z on 8/2 – Work as many North American stations as possible – 100 W or less <http://www.ncjweb.com/NAQP-Rules.pdf>

August 8th 2020 – HamCram + Test Session, Stockton Fire Station #2 Doors open at 7:45 AM - Test session starts at 3:00 PM after the HamCram

August 13th, 2020 – SDARC August Meeting - 1800 hours – Annual Transmitter Hunt, Bar-B-Que and Potluck Supper, Stockton Sailing Club Pavillion, 4980 Buckley Cove Way, Stockton, CA... All members are encouraged to attend – Dinner served at 6:30PM Transmitter Hunt training starts at 7:00 PM

STATE QSO PARTIES – Set a Goal to get WAS in 2020

Maryland-DC	08/08/2020	08/09/2020	Anne Arundel Radio Club
Hawaii	08/22/2020	08/24/2020	Hawaii QSO Party
Ohio	08/22/2020	08/23/2020	Ohio QSO Party
Kansas	08/29/2020	08/30/2020	Kansas QSO Party
Colorado	09/05/2020	09/06/2020	Pikes Peak Radio Amateur Association

**Do you have any suggestions, comments or concerns? We want to hear from you.
Do you have an idea that we, as a club can all benefit from? Let us hear about it.
To submit articles for the monthly newsletter, email N6ACL annettel@westwayfeed.com**

W6SF CLUB INFORMATION

MEETINGS: Regular meetings are held on the second Thursday of each month **at the Stockton Sailing Club, 4980 Brookside Cove, Stockton, CA – off March Lane west of Interstate 5**. Members, guests, and people having an interest in Amateur Radio are invited to attend. The next meeting is scheduled for **Thursday, July 9th at 1900 hours. This meeting will be held on-line using Zoom.** Members and guests are welcome – login info in this newsletter.

WEEKLY NETS: Held each Monday evening at 1900hrs is the **W6SF New Ham/Tech Net** hosted by Paul **N6KZW and Others**. Then at 2000hrs the regular club net starts. **147.165+ PL 107.2 Hz and 442.250 + PL 107.2 are the regular repeaters for these Nets.** Members and visitors are invited to check in. There is also an unofficial get together on Thursday evenings (except meeting night) at 8:00pm **on 28.457MHz**. Amateurs with the proper license are encouraged to participate.

CLUB REPEATERS: Located in the Sierra at 2500 feet, the club repeater covers the southern Sacramento and Northern San Joaquin Valleys. The call sign is W6SF, and can be heard on **147.165+Mhz** with a PL tone of 107.2 Hz. From the same site, the club also operates a 440MHZ repeater at **442.250 +** with a PL of 107.2 Hz.

The club also operates a UHF repeater located in downtown Stockton **444.575MHz +** with a PL 107.2Hz. Coverage includes the Stockton area as well as parts of Lodi, Manteca, Tracy and Ripon.

CLUB SIMPLEX FX: 147.51 MHz.

CLUB WEBSITE: <http://www.w6sf.org>

2020 CLUB OFFICERS & LEADERSHIP:

President:	N6TCE , Bob Officer	n6tce@arrl.net
Vice President:	W6SXA , Mark Cloud	w6sxa@arrl.net
Treasurer:	K6PH , Peter Hine	selkied@earthlink.net
Secretary:	N6ACL , Annie Lewis-Dopkus	annettel@westwayfeed.com
Member At Large:	NZ6Q , John Litz	john@litz.com
Call Sign Trustee:	WB6NVB , Charlie Johnson	wb6nvb@arrl.net
Repeater Trustee:	NC6R , Steve Allred	nc6r@arrl.net
Membership Chairman	N6ACL , Annie Lewis-Dopkus	annettel@westwayfeed.com
Event Chairman	OPEN	
Newsletter Editor	NZ6Q , John Litz	nz6q@arrl.net

CLUB DUES:

\$20 SINGLE and \$30 FAMILY

Stockton-Delta Amateur Radio Club, P.O. BOX 690271, STOCKTON, CA 95269-0271

We thank you for your continued support!