



The Kern River Voice

The Monthly Newsletter of the Sequoia Amateur Radio Group



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January 2020

N6KRV – An ARRL Affiliated Club

PO Box 2446, Lake Isabella CA 93240

<http://www.n6krv.org>



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2020 S.A.R.G. Leadership

President

Jan Robertson N7CCV (760) 223-0762

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Treasurer/ Web Master

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Membership Chair

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Board Members

Don Jefferson KC6OCA (760) 379-5084
(also Club Historian & The Raffle Guy)

Newsletter Editor

Bill Hesse editor@n6krv.org

Past President

Bill Hesse N6TF
.....

ARES Net

Monday – 6:45 PM
145.450 (-) PL 156.7

Club Nets

HF Net –Tue / Thu & Sat 8 PM
3.773 MHz

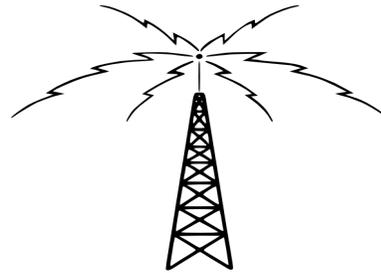
VHF Net – Friday 7PM
145.450 (-) PL 156.7

Prune Juice & BS Net

Daily (exc. Sunday) 9AM
145.450 (-) PL 156.7

SARG Monthly Meetings

2nd Sat. (exc. Dec.) 9:30AM
KRV Elk's Lodge
6708 Wofford Blvd.,
Wofford Heights, CA 93285



The Prez Sez:

Welcome to 2020

I want to start by saying a big “Thank You” to the people who served as Club officers for the past year. Our club would not function without member participation and we had a great year for 2019.

I'm very excited for the new year. Our new Vice President Cheryl Ripley, has been working very hard to have great programs. Please support her by attending our meetings. This month she arranged to have a representative from Senator Shannon Grove's office speak on issues of local interest.

And she already has two other very interesting speakers lined up for future meetings!

Great work Cheryl!!

Lets all have a healthy, happy and safe year. Please bear with me while I wake my brain and remember how to write.

I'll see you on the 11th of January at 9:30, Elks Lodge in Wofford Heights.

Janet N7CCV

At a motivational seminar 3 men are asked to come up to the stage.

They are all asked, "When you are in your casket and friends and family are mourning upon you, what would you like to hear them say about you?"

The first guy says, "I would like to hear them say that I was the great doctor of my time, and a great family man."

The second guy says, "I would like to hear that I was a wonderful husband and school teacher who made a huge difference in our children of tomorrow."

The last guy replies, "I would like to hear them say..... LOOK!!! HE'S MOVING!!!!!"

OUR NEXT MEETING: Our next meeting will be at 09:30 am, Saturday, January 11th at the Elks Lodge in Wofford Heights.

Doors open at 09:00 and the meeting starts at 09:30. Coffee and pastries will be available.



VE Exams

The club offers exams for new or upgraded licenses after each meeting. Please bring a government issued photo ID (even if we personally know you) and your current license if you have one. Exams are processed by the Greater Los Angeles Amateur Radio Group and the fee is \$5. If you pass your exam and wish to take the exam for the next higher class of license there is no additional charge. If you fail the exam and there is time to take a second exam there is an additional \$5 fee. We can process renewals and address changes for \$2, but we recommend that you do this on the FCC website for free. Effective March 1, 2019 you must have a Federal Reference Number (FRN) before applying to take an exam. If you have any current license for any radio service issued by the FCC, you already have one that must be used. You can apply for yours at <https://apps.fcc.gov/coresWeb/publicHome.do> if you do not have one. The club website N6KRV.ORG has all three question pools with the distracters (wrong) answers deleted. There is also a link to the complete question pool with all 4 choices showing. Your FCC approved application Form 605 will ask you if you have ever been convicted of a felony. If you answer yes the FCC will contact you before they process your application. The exam team will not ask for any



“Exams” continued....

explanation and we will process the application the same as if you had answered no. Questions or reservation requests should be directed to mike@n6krv.org. We ask that you notify us at least 24 hours before the meeting if you intend to take an examination so that we can make sure to have enough examiners available after the meeting.

Some upcoming Events:

Annual Swap Meet and Potluck..(April meeting)
ARRL Field Day (June 27-28)
Ice Cream Social..(July meeting)



SICKNESS AND DISTRESS

If you hear of any of our members who aren't feeling so well, please let Christine Hesse KK6AZQ know so she can get a card out to them. Keep those prayers going.....

A woman has twins, and gives them up for adoption. One of them goes to a family in Egypt and is named "Amal." The other goes to a family in Spain; they name him "Juan." Years later, Juan sends a picture of himself to his birth mother.

Upon receiving the picture, she tells her husband that she wishes she also had a picture of Amal. Her husband responds, "They're twins! If you've seen Juan, you've seen Amal."

...this month in History

January 1, 1801 - Ireland was added to Great Britain by an Act of Union thus creating the United Kingdom of Great Britain and Ireland.

January 1, 1901 - The Commonwealth of Australia was founded as six former British colonies became six states with Edmund Barton as the first prime minister.

January 5, 1919 - The German Workers' Party (*Deutsche Arbeiterpartei*) was founded by Anton Drexler in Munich. [Adolf Hitler](#) became member No. 7 and changed the name in April of 1920 to the National Socialist German Workers' Party (*Nationalsozialistische Deutsche Arbeiterpartei*) commonly shortened to Nazi or Nazi Party.

January 5, Birthday - American conductor John Philip Sousa (1854-1932) was born in Washington, D.C. Best known for his rousing marches including *The Stars and Stripes Forever*, *Semper Fidelis*, and *El Capitan*.

January 8, 1964 - President Lyndon Johnson declared War on Poverty during his State of the Union message before Congress.

January 8, 1987 - The Dow Jones industrial average first topped the 2,000 mark.

January 8, Birthday - Elvis Presley (1935-1977) was born in Tupelo, Mississippi.

January 15, 1973 - Golda Meir became the first Israeli Prime Minister to visit the Pope.

January 15. Birthday - Martin Luther King (1929-1968) was born in Atlanta, Georgia. As an African American civil rights leader he spoke eloquently and stressed nonviolent methods to achieve equality. He received the Nobel Peace Prize in 1964. He was assassinated in Memphis, Tennessee, on April 4, 1968. In 1983, the third Monday in January was designated a legal holiday in the U.S. to celebrate his birthday.

January 17, 1773 - The ship *Resolution*, sailing under Captain James Cook, became the first vessel to cross the Antarctic Circle.

From the ARRL:

Two Solar Cycle 25 Sunspots Appear

12/30/2019

New Solar Cycle 25 is on the way, but just when the transition from Cycle 24 to Cycle 25 will take place is not entirely clear. On December 24, two new sunspots — one in each hemisphere — emerged on the face of the sun that exhibit the reversed magnetic polarity marking them as belonging to Solar Cycle 25. According to [Hale's Law](#), sunspot polarities flip-flop from one solar cycle to the next, the National Center for Atmospheric Research explains.

"The sun is currently in solar minimum — the nadir of the 11-year sunspot cycle," Tony Phillips said in his article, "[Reversed Polarity Sunspots Appear on the Sun](#)" on the Spaceweather.com website. "It's a deep minimum, century-class according to sunspot counts." The remarkable sunspot scarcity has prompted discussion of a possible "extended minimum" akin to the Maunder Minimum in the 17th century, when no sunspots appeared for decades, Phillips said. "Such an event could have implications for terrestrial climate."

"Today's new-cycle sunspots (along with isolated new-cycle spots earlier this year) suggest that the solar cycle is, in fact, unfolding normally," Phillips wrote, adding that a new Maunder Minimum does *not* appear to be in the offing.

Earlier this month, the NOAA/NASA-co-chaired international Solar Cycle Prediction Panel released its [latest forecast](#) for Solar Cycle 25. The panel's consensus calls for a peak in July 2025 (± 8 months), with a smoothed sunspot number of 115 and the solar minimum between Cycles 24 and 25 occurring in April 2020 (± 6 months). If this solar minimum prediction is correct, it would make Solar Cycle 24 the seventh longest on record at 11.4 years.

Climate scientist David Archibald speculates that the Solar Cycle 24/25 minimum could occur as late as March 2021, and that Cycle 25 maximum might not happen until 2027.

"We are well into the Solar Cycle 24/25 minimum but [Cycle] 24 may not have ended yet," Archibald said

in a December 22 [update](#) on the Watts Up With That? website. "A solar cycle isn't over until the heliospheric current sheet has flattened. And that could be as late as March 2021. Solar cycle amplitude does matter with respect to climate and the amplitude of Solar Cycle 25, from projecting trends from the last three cycles, looks like being about 80 in 2027."

The Solar Cycle Prediction Panel agreed that Cycle 25 will be of average intensity and similar to Cycle 24.

In an [article](#) posted on NOAA's Space Weather Prediction Center site, Scott McIntosh, the Director of the High Altitude Observatory at National Center for Atmospheric Research ([NCAR](#)), stresses that Solar Cycle 25 will happen, "but a sunspot cycle could be small."

Predictability comes with some physical understanding of the underlying process, McIntosh asserts. "The sunspot cycle is erratic," he said in his presentation, "provocative of a chaotic, turbulent solar interior where sunspot progressions with time and latitude are the only tracers..."

-Q: Why is Peter Pan flying all the time?



A: He Neverlands!

Let me hear from you if you like or don't like what you've seen in this issue of *your* "Kern River Voice".

EDITOR@N6KRV.ORG

Ham Radio Glossary

Editor's note:

Although I have run "Ham Radio Glossary" in past editions and have already covered it all "from A to Z" it is my intention to cover it all again. This is intended as a service to the new "Ham" as well as gentle reminders for the seasoned veteran.

-E

E region -- The second lowest ionospheric region, the E region exists only during the day. Under certain conditions, it may refract radio waves enough to return them to Earth.

Earth ground -- A circuit connection to a ground rod driven into the Earth or to a cold-water pipe made of copper that goes into the ground.

Earth station -- An amateur station located on, or within 50 km of, the Earth's surface intended for communications with space stations or with other Earth stations by means of one or more other objects in space.

Earth-Moon-Earth (EME) or Moonbounce -- A method of communicating with other stations by reflecting radio signals off the Moon's surface.

Electric field -- An invisible force of nature. An electric field exists in a region of space if an electrically charged object placed in the region is subjected to an electrical force.

Electromotive force (EMF) -- The force or pressure that pushes a current through a circuit.

Electron -- A tiny, negatively charged particle, normally found in an area surrounding the nucleus of an atom. Moving electrons make up an electrical current.

Elmer -- An individual who acts as an advisor or mentor to a newly licensed amateur.

Emergency -- A situation where there is a danger to lives or property

Emergency traffic -- Messages with life and death urgency or requests for medical help and supplies that leave an area shortly after an emergency

Emission -- The transmitted signal from an amateur station.

Emission privilege -- Permission to use a particular emission type (such as Morse code or voice).

Emission types -- Term for the different modes authorized for use on the Amateur Radio bands. Examples are CW, SSB, RTTY and FM. Energy -- The ability to do work; the ability to exert a force to move some object.

F-

F region -- A combination of the two highest ionospheric regions, the F1 and F2 regions. The F region refracts radio waves and returns them to Earth. Its height varies greatly depending on the time of day, season of the year and amount of sunspot activity.

False or deceptive signals -- Transmissions that are intended to mislead or confuse those who may receive the transmissions. For example, distress calls transmitted when there is no actual emergency are false or deceptive signals.

Feed line -- The wires or cable used to connect a transmitter, receiver or transceiver to an antenna. See Transmission line.

Filter -- A circuit that will allow some signals to pass through it but will greatly reduce the strength of others.

Final-- 1) The final tube(s) or transistors in an amplifier - - "I just put new finals in this transmitter and I'm getting a lot more power output." 2) The last transmission in a contact before signing off - - "OK this will be my final for now, see you again next time".

Frequency -- The number of complete cycles of an alternating current that occur per second.

Frequency bands -- A group of frequencies where amateur communications are authorized.

Frequency coordination -- Allocating repeater input and output frequencies to minimize interference between repeaters and to other users of the band.

Also From the ARRL:

Over-the-Horizon Radars Causing Widespread Interference on 40 Meters

12/19/2019

Over-the-horizon (OTH) radars continue to plague various amateur radio bands. Those operating on exclusive ham radio allocations have been complaining for years, but military systems have a blanket waiver to use amateur radio frequencies. The latest edition of the International Amateur Radio Union Monitoring System ([IARUMS](#)) [newsletter](#) reports that a radar in northern Iran — likely military — has been operating 40 meters (6978 – 7022 kHz). Several Russian and Chinese OTH radars have become mainstays in the ham bands. While these sort of signals are operating on exclusive amateur radio allocations, the International Telecommunication Union (ITU) [Convention](#) essentially gives military stations free reign in the spectrum. Article 48 says, “Member States retain their entire freedom with regard to military radio installations.” Member states are countries that have agreed to follow the Convention, and that is not a given.

The Convention goes on to say, however, “Nevertheless, these installations must, so far as possible, observe statutory provisions relative to giving assistance in case of distress and to the measures to be taken to prevent harmful interference [emphasis added], and the provisions of the Administrative Regulations concerning the types of emission and the frequencies to be used, according to the nature of the service performed by such installations.”

According to IARUMS, the Iranian OTH radar was centered on 7000 kHz using amplitude modulation on pulse (AMOP) at 81 sweeps per

second. [Recordings of military transmissions](#) are available on the SIGIDWIKI signal identification site.

The South African Amateur Radio League (SARL) News reported this week that radio amateurs in Europe and South America have reported major interference from Russian OTH radar stations on several parts of 40 meters — with 12 kHz-wide signals. The radar transmissions have been heard on 7064, 7109, 7170, and 7190 kHz.

Several European IARU member-societies have already sent complaints to their respective telecommunications regulators.

New 70-Centimeter Tropo Contact Record Claimed

12/31/2019

Tropospheric propagation is being credited with enabling a 70-centimeter contact between the Cape Verde islands and Scotland that may be a new world record. [Exceptional tropo conditions](#) over the eastern part of the North Atlantic this past weekend allowed many stations in the UK and Ireland to make contacts with the Monteverde Contest Team Club, D41CV, on the Cape Verde islands on 2 meters, but the conditions extended to 70 centimeters.

At 1109 UTC on Saturday, December 28, Ian White, GM3SEK, in southwestern Scotland completed an FT8 contact with D41CV on 432 MHz, staking a claim on the IARU Region 1 tropo record at 4,562 kilometers (2,828 miles), which may also be a new world record. A couple of hours earlier, Mark Turner, EI3KD, worked D41CV on FT8 over a distance of 4,163 kilometers (2,581 miles).

“Wrinkles and Irony”

This farmers wife prayed to the Lord and asked him, “How old will I be when I die?”

His reply was 96 years old. She said, “Hot diggity dog, I will have myself fixed up.”

She had everything lifted and tucked and was in the doctor’s office, making the last payment on her reconstruction. She walked out of the doctor’s office, started across the street, and was hit and killed.

She gets to heaven and asks the Lord, “What happened? You told me that I would live to be 96.”

His reply: “We’ll I just didn’t recognize you!”

A week after John bought a bull, he complained to his friend, “All that bull does is eat grass. Won’t even look at a cow.”

“Take him to the vet,” his friend suggested. The next week, John is much happier. “The vet gave him some pills, and the bull serviced all of my cows!” he told his pal. “Then he broke through the fence and bred with all my neighbor’s cows! He’s like a machine!”

“What kind of pills were they?” asked the friend.

“I don’t know, but they’ve got a peppermint taste.”

Changing times

SIGNS YOU LIVE IN THE YEAR 2020...

1. You just tried to enter your password on the microwave.
2. You have a list of 15 phone numbers to reach your family of three.
3. You call your son's beeper to let him know it's time to eat. He emails you back from his bedroom "What's for dinner?"
4. Your daughter sells Girl Scout Cookies via her web site.
5. You chat several times a day with a stranger from South Africa but you haven't spoken with your next door neighbor this year.
6. You check the ingredients on a can of chicken noodle soup to see if it contains Echinacea.
7. Your grandmother asks you to send her a JPEG file of your newborn so she can create a screen saver.
8. You pull up in your own driveway and use your cell phone to see if anyone is home.
9. Every commercial on television has a web-site address at the bottom of the screen.
10. You buy a computer and 6 months later it is out of date and now sells for half the price you paid.
11. Leaving the house without your cell phone, which you didn't have the first 20 or 30 years of your life, is cause for panic and turning around to go get it.
12. Using real money, instead of credit or debit, to make a purchase would be a hassle and take planning.
13. Cleaning up the dining room means getting the fast food bags out of the back seat of your car.
14. Your reason for not staying in touch with family is that they do not have e-mail addresses.



JANUARY 2020

Serving the Kern River Valley and Walker Basin



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																		
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