



THE Readout

STANISLAUS AMATEUR RADIO ASSOCIATION

July 2025

Volume 46, Number 7

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Next General Meeting:
Face-to-face:
Monday, July 14th
7:00pm

A Message from Club President John Otte, K6JRO

Welcome to another edition of *The Readout*.

Summer is now in full swing, and the temperature are starting to prove it! Please take the necessary precautions and stay safe. ARES members should remain mindful in the event the county needs us for cooling shelters. Stay hydrated and don't forget about your pets.

Field Day was a wonderful success! Jason, KA6TIO and Vicki's KJ6RCV will provide a full debriefing at the SARA club meeting Monday night.

Speaking of Field Day, while this event is over, contest season is not! The North American QSO part will be the weekend of August 16th, and the California QSO part is October 4-5!

73 de K6JRO
John Otte
SARA Club President
Readout Editor

Minutes from the June face-to-face meeting

Stanislaus Amateur Radio Association
P.O. Box 4601 Modesto, CA 95352

www.saraclub.net

June 16, 2025

Club Meeting Minutes

(Meeting held at 3705 Oakdale Road Modesto, CA)

Attendance (via sign in sheet)

Robin, KG6ZYQ
Dick, W8AAL
Richard, WE6V
Scott, KN6RKY
Robert, KD6BMY
James, KK6ILV

Scott, KN6OOV
Cheryl, KK6GJM
Eric, KO6HYL
John, K6JRO
Manuel, N6MTM
Brian, KN6QFF

Ed, KF6FIR
Scott, N6CIC
Robbie, kN6VOG
Robert, KN6VMS
Wally, KK6CPN
Paul, W6UHF

Minutes:

June face-to-face
meeting

Write for *The Readout*.

If anyone has
information that
they want included
in *The Readout*
please submit to the
editor
k6jro@arrl.net.

Please try and have
the information or
articles to the editor
by the 30th of each
month.

Mark, KI6HOB
Vicki, KJ6RCV
Mark, N6ARP

Eva, KM6BIP
Roy, KK6OQP
Randy, KF6RJS

Art, KN6SSP(guest)
Jason, KA6TIO
Gene, W6QFU

President John, K6JRO, called the meeting to order at 7:00 pm, welcomed everyone and asked Robin, KG6ZYQ, to lead the Pledge of Allegiance. There were twenty-six members present according to the sign-in sheet and one guest. John asked members and guests to introduce themselves.

Reading of Minutes: Secretary Scott, N6CIC, the minutes from last month's meeting were presented to the membership in the READOUT prior to the meeting. There were no corrections or additions. Dick, W8AAL, made a motion to approve the minutes, with a second by Scott, KN6OOV. The club approved the minutes unanimously.

President, John, K6JRO, explained that the change in meetings from Tuesday to Monday is due to OES doing an EMT course on Tuesdays and Thursdays. There will be a Field Day discussion tonight. John noted that the FCC, since they went digital, will no longer notify amateur operators of their license expiration. Amateurs will have to check it for themselves. Licenses can be renewed within 90 days of expiration. Paul, W6UHF, said the ARRL will notify members of the pending license expiration if they request it.

Vice-President Brian, KN6QFF, stated that Jason, KA6TIO, and Vicki, KJ6RCV, will give a presentation on Field Day tonight. In July they will debrief the club on Field Day operations. In August, John, K6JRO, will discuss his new antenna, and in September, Scott, N6CIC, will give a presentation on FT8.

Treasurer Scott Johnson, KN6RKY, presented the monthly treasurer's report with an ending bank balance of \$11,922.81. Randy, KF6RJS, made a motion to approve the report, and after a second by Jason, KA6TIO, the club approved the Treasurer's report.

Sergeant at Arms Robin, KG6ZYQ, stated there will be a split-the-pot raffle at the break. Also, we will raffle an ARRL Field Day coffee cup, a Wouxun battery and cigarette lighter adapter, and two key chains. Water and snacks are available at the break.

Club Trustee: Lucian, KF6NPG, read by Mark, N6ARP in the absence of Lucian: The Mt. Oso 145.390, and 440.225 repeaters are working. The 220 and the downtown 145.110 repeaters were not working. When we went to check downtown, we found that it was emitting a high-pitched tone. We reset the repeater, and it appeared to be back online. However, there was an issue with the controller, and it stopped again. The Kenwood repeater was taken offline and temporarily replaced with a Motorola MTR 2000 repeater to keep the frequency on the air.

The MTR is doing a good job and has been in service for several weeks. I brought the Kenwood home to check it. This repeater is about 11 years old, and the controller is around 27 years old. I removed the cover of the repeater, and it was dirty and dusty inside. I took an air can and blew out the dust and dirt. Nothing appeared damaged. I connected it to a dummy load, and it started working. I have had it running and it appears to be OK. I will switch it out after Field Day. If the controller fails again, we have a

Joining SARA:

We are taking membership applications for 2025

One-year dues are \$30.00 for individuals, or \$45.00 for a family. To join, fill out the registration form in this newsletter and bring it to any SARA meeting.

replacement in mind and will purchase that when needed. As a bonus that controller will work with the MTR 2000 as well.

I made a trip to Mt. Oso on Friday May 23, 2025, to check equipment. While there I reset the 220 repeater, and it seems to be working. I also did the following: copied programming from the 145.390 Motorola repeater for use in programming the spare for the 145.110 repeater replacement, cleaned the building, filled the mouse bait traps, checked the tower and antennas, and installed some high-speed fans. They seemed to be working very well until I checked them with the repeaters active. Everything was Ok, except the 220 had a high-pitched hum caused by the fans. I will look for a different fan replacement. I checked the mesh and it seemed to be working as it should and I checked the packet equipment. All looked good. There were a lot of dead bugs in the building. I will vacuum out on the next trip. The Bureau of Reclamation is doing a lot of work on their tower and backup generator.

I made another trip to Mt. Oso on Sunday June 15, 2025. While there I did the following: checked the 220 repeater and it seemed to be working OK, cleaned the building, filled the mouse bait traps, checked the tower and antennas, did some weed abatement, and I installed some fans that did not cause any interference on the repeaters. I checked the mesh and it seemed to be working OK. There is an update available, and I will wait until Mark N6ARP is there to do the installation. I also checked the packet equipment and all looked OK. I vacuumed out the dead bugs, especially around our equipment box. The Bureau is still doing a lot of tower work. I could see that they replaced some antennas and did more emergency generator work

I would also like to thank Patrick, KG6AZZ, for adding the time announcement and club meeting announcement on the 145.390 repeater.

Most of the solar equipment has come into OES. Waiting for clearance to accept the equipment and then we will begin planning in earnest to install the equipment.

The electricity bill was \$85.64 for May. The bill continues to be in the \$70.00 to \$80.00+ range.

ARES: Wally, KK6CPN, reported the recent ARES meeting discussed Field Day plans. ARES donated \$49 to the SARA equipment fund. The next ARES meeting will be on July 12, and the subject will be Incident Action Plans.

Board Members: Mark, N6ARP, Dick, W8AAL, Cheryl, KK6GJM, and Scott, KN6OOV were present: Mark, N6ARP, noted that after a Monday SARA meeting, there will be no SARA Club net the next day on Tuesday.

Community Events: Wally, KK6CPN, stated the Regaldo Road Race went very well and thanks to everyone who assisted. The Walk to End Alzheimer's is scheduled for September 13th.

Weather Officer Randy, KF6RJS, reported on the weather forecast. The outlook for the near future is expected to be nice.

Old Business: None.

New Business: Vicki, KJ6RCV, placed a sign-up sheet in the back for people to bring food items to the Field Day picnic.

Break: There was a 15-minute break. The evening's split-the-pot raffle winner was Dick, W8AAL, who donated his half back to the club. Split-the-pot generated \$135 for the club. Congratulations and thank you Dick! Eric, KO6HYL, won the Field Day coffee cup. Dick also won the Wouxun battery and cigarette cable charger. The ARRL key chains were won by Robert the Farmer, KD6BMY, and by Robert, KN6VMS.

Thank you to all members and guests who continuously participated in our monthly fund-raising raffles. Your generosity is appreciated.

Presentation: Jason, KA6TIO, and Vicki, KJ6RCV, gave an excellent presentation on the history of Field Day which began in 1938 to test portable radios. They showed photos of earlier radios and gasoline generators that were not so portable! The initial 100 feet diameter operating circle was later increased to 1000 feet. Our club call is W6ERE, and our Field Day identifier is 7ASJV. The location is 9090 Lake McClure Road, Snelling, CA. The following is the schedule for Field Day:

Friday, June 27th, and set-up at 4:00 PM.

Saturday, June 28th-10:00 PM orientation and safety, 11:00 operating begins, 5:30 PM BBQ and picnic.

Sunday, June 29th-11:00 AM operations end, 11:15 debrief, 2:00 PM depart.

John, W6PY, and Patty, W6PV, reserved a site but cannot attend, so any other club members are welcome to use the site.

Band Plan

Rules: no two stations can simultaneously operate the same mode on the same band, but different modes on the same band are allowed. In order to communicate band activity, bring an HT using simplex at 147.540.

SSB

160 M-no activity planned.

80 M-Ed KF6FIR

40 M-Paul, W6UHF

20 M-Scott, N6CIC, and Dick W8AAL/Mark, KI6HOB

15 M-Mark, KI6HOB

10 M-Mark KI6HOB

6 M-Jason, KA6TIO

2 M SSB-no activity planned.

CW-Gene, W6QFU

Digital-Scott, N6CIC, FT8 and FT4/ Ed, KF6FIR, Winlink

Meeting Adjournment: John, K6JRO, adjourned the meeting at 8:37 PM after a motion by Ed, KF6FIR, and a second by Scott, KN6OOV. The next meeting will be on Monday, July 14, 2025 (7:00 pm to 8:00 pm) and will be a face-to-face meeting. The location is the Stanislaus County Office of Emergency Services, 3705 Oakdale Road, Modesto, CA.

Minutes by Scott, N6CIC, Club Secretary.

Treasure's Report, Scott, KN6RKY

Treasure report from the June meeting



STANISLAUS AMATEUR RADIO ASSOCIATION

P.O.BOX 4601, MODESTO, CA 95352-4601

www.saraclub.net

Treasury Report June 16, 2025

May 21, 2025

to

June 16, 2025

BEGINNING BALANCE: \$11,908.62

INCOME:

Membership Dues - (cash/check)	\$0.00
Member Donations (cash/check)	\$0.00
Split-The-Pot	\$91.00 Tim KG6TAI (gave his winnings back to club)
Radio/Equipment Raffle	\$60.00 Gene Savelli W6QFU
Square - Auto Deposit - Dues	\$28.83 (net of Square fees)
Square - Auto Deposit - Donations	\$0.00 (net of Square fees)

TOTAL INCOME:	\$179.83	Square - Auto Deposit	\$28.83
		Deposit Tri-Counties Bank	\$151.00

EXPENSES:

Moeller Mt. Oso	\$80.00 (Ck #1179) - June Site Rent (5-28-2025)
PG&E	\$85.64 (Ck #1180) - Mt Oso Utilities-32 days (6-15-2025)

TOTAL EXPENSES: \$165.64

** Tri-Counties Bank

Ending Bank Balance: **\$11,922.81** as of June 16, 2025

Field Day Fund:	\$1,890.71 (included in ending bank balance)
Equipment Fund:	\$4,851.82 (included in ending bank balance)
General Fund:	\$5,180.28 (included in ending bank balance)

Treasurer:

June 16, 2025

2025 Membership - 1 Honorary / 74 Paid Members

2026 Membership - 1 Honorary / 3 Paid Members

Weather Report, Randy, KF6RJS

Weather report from Randy, KF6RJS

The following report was filed by SARA club weather officer Randy, KF6RJS. Data was collected from his home QTH in North Modesto:

This year's rain for total was 9.14 inches. Our seasonal rain for total is 12.17 inches. We are short by 3.06 inches relative to last year's total of 15.52 inches. Not a bad year. Monday the 14th though Saturday the 19th: The high's will be 92 to 100. Low's 62 to 67. So far we have had 1 day over

ARES

Wally, KK6CPN
Emergency
Coordinator,
Stanislaus County

Ham Cram

John, K6JRO Ham
Cram coordinator

a 100 and that was on Saturday 5/31 where it was 101.1. We might get more over the next 4 days of this week. Stay cool everybody. God Bless.

73 Randy Spindler, KF6RJS.
Weather Officer

Stanislaus County ARES Report

Hello everyone



Well, we made it through another Field Day even though it was 100% weather. Jason and Vicki and crew put on a great Bar-B-Que with a lot of prizes given out. We had 4 ARES members attend Field Day putting their skills to work. I met with our Ruben from OES and talked about the upcoming Preparedness Fair on

September 20 at Enslin Park. I will provide further information as I get it. Again, I would like to remind all SARA members you are welcome to come out to the second Saturday of the month ARES meeting and trainings.

For now, that is all, 73

Jim (Wally) Walsh, KK6CPN, Emergency Coordinator, Stanislaus Co.



ARES® operates under the authority of the Stanislaus County Office of Emergency Services (OES), and the Stanislaus County Assistant Director for OES. ARES® is organized under the auspices of the American Radio Relay League, the San Joaquin Valley Section Manager, and the San Joaquin Valley Section District Emergency Coordinator. Operational control is under the Stanislaus County OES.

If you are interested in joining Stanislaus ARES, go to the Stanislaus ARES website (www.stanares.org) and click on the Join ARES tab. There is formation on how to join and the membership forms to complete are available there. Please check in on the ARES voice radio net very Wednesday at 7:30 pm on

the 145.390 – pl. 136.5 S.A.R.A. repeater. There is also an unproto Packet radio net during the voice net on 144.910 via the SARA node. The monthly training meeting is at 10:00am on the second Saturday of the month at 3705 Oakdale Road Modesto, CA. Meeting dates and times can change due to operational needs. Please check the web site for updates.



Ham Cram Information

Due to low enrollment, the ARES organization will no longer be offering ham crams. Instead, we will offer material and guidance to anyone who wants to earn or upgrade their license. Information is available on the [ARES webpage](#). Testing will be offered before the SARA club meeting at 6:00pm on the third Tuesday of the month.

If you have any questions, please email John Otte, K6JRO at k6jro@arrrl.net.

Swap Shop: Ham Radio related equipment for sale

Butternut HF-6V antenna with radials. This antenna covers 80, 40, 30, 20, 15, and 10m. I also have the components to add 17 and 12m. \$250.00. If interested please contact Mark Carter, KI6HOB at carter1956@att.net

Featured Article: Are EMOPs a Real Threat to Ham Radio?

Posted by *OnAllbands* June 23,2025

When someone mentions electromagnetic pulses (EMPs), we conjure visions of nukes, terrorists, Starfish Prime, and Armageddon. Would your ham radio be in danger? Statistically, your radio is more likely to be damaged by lightning, power surges, high SWR, and dumb mistakes. Think about the last time you let the smoke out of your radio or fried your finals.

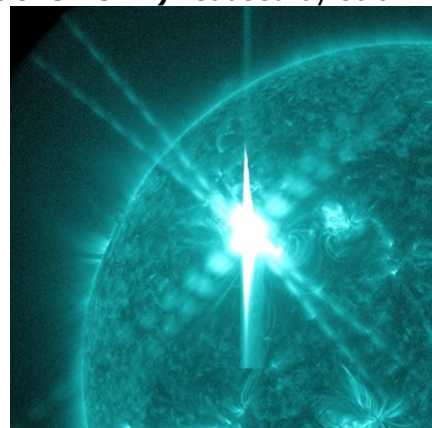
Though they happen infrequently, electromagnetic pulses are a real and potentially devastating threat to modern technology, including ham radios. While ham radios have often been recognized for their reliability in emergencies, EMP poses some challenges.

The Reality of EMP

The severity of the threat depends on the type of EMP and the precautions you take to protect the equipment. An EMP is a powerful and short-lived radio signal with enormous bandwidth. It can originate from several sources, some of which are more hazardous and destructive than others.

Here's a breakdown of the types of EMP, listed in order of most likely to occur:

- **Solar EMP (Coronal Mass Ejections—CME):** Caused by solar flares, these events can also generate powerful electromagnetic pulses. We've recently had our share of these. On May 10, 2024, the first G5, or "severe," geomagnetic storm in over two decades hit Earth. CMEs are also making appearances in 2025. Some coronal mass ejections are relatively mild, but then there are others like the Carrington Event of 1859. The most intense CME in recorded history, the Carrington Event caused telegraph systems all over Europe and North America to fail. It created strong auroral displays that were reported globally and caused sparking and even fires in telegraph stations.



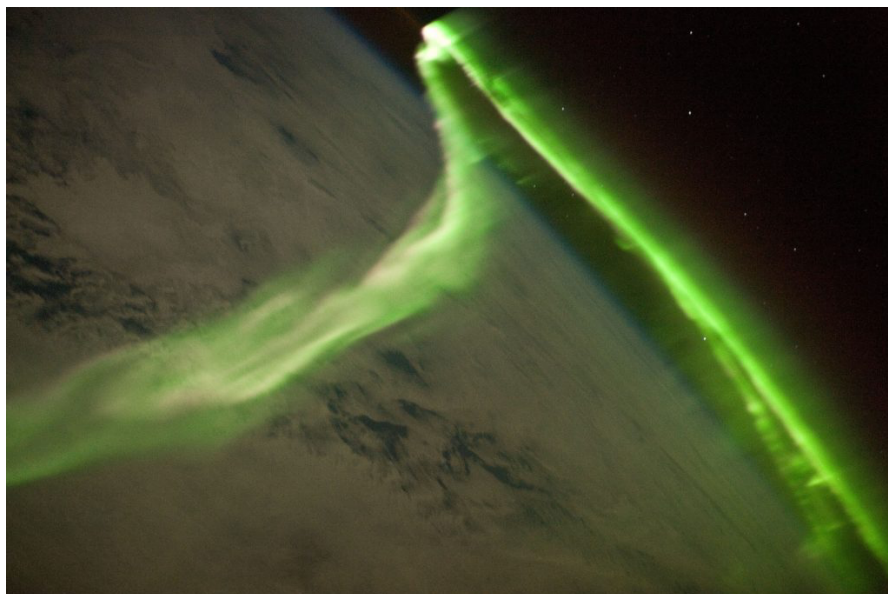
- **Conventional E-Bombs:** E-bombs, or electromagnetic bombs, are specialized non-nuclear weapons designed to disrupt or destroy electronic systems and information networks. They work by generating a powerful EMP that can damage or incapacitate sensitive equipment, effectively “killing” the electrical systems of a target area.
- **Nuclear EMP (NEMP):** This type of EMP is generated by a nuclear explosion, particularly high-altitude detonations. High-altitude EMPs (HEMP) occur when a nuclear explosion happens at an altitude above 30 miles, generating a powerful EMP over a large geographic area. This is considered the greatest threat to amateur radio equipment, the grid, and electronics in general. If a detonation is close enough to cause any damage, saving your gear will probably be the least of your worries.

Source-Region Electromagnetic Pulse (SREMP) is generated by low-altitude nuclear detonations (below 5km). While it affects a smaller area, it can be devastating to electronics within that zone.

An EMP burst itself is harmless to humans and pets—it’s like being exposed to a very bright light for a very short time. A pulse can emit damaging radiation, but the health risk associated with this brief exposure is negligible.

A solar-made EMP is much more likely, but the effect of even a large solar-made EMP is so minimal that we earthlings will barely notice it, unless we consult the N0NBH Solar-Terrestrial Data chart. Even if the predicted event will be large enough to notice, chances are you’ll have a day or two to prepare for it. And to prepare for it, stow your ham radio equipment in your car (assuming your car has a steel body), wrap in layers of foil or utilize a Faraday cage, and disconnect your radios from outdoor antennas. For the rest of your appliances, unplug them from the wall.

Depending on the strength of the EMP and how exposed your equipment is, your ham radio equipment might not be affected at all or it can get burned to a crisp. The only two types of significant EMP your equipment will likely be exposed to are those made by nuclear and solar sources.



This aurora image from the International Space Station was taken during a geomagnetic storm that was most likely caused by a coronal mass ejection in May 2010. (Image/NASA – [Public Domain](#))

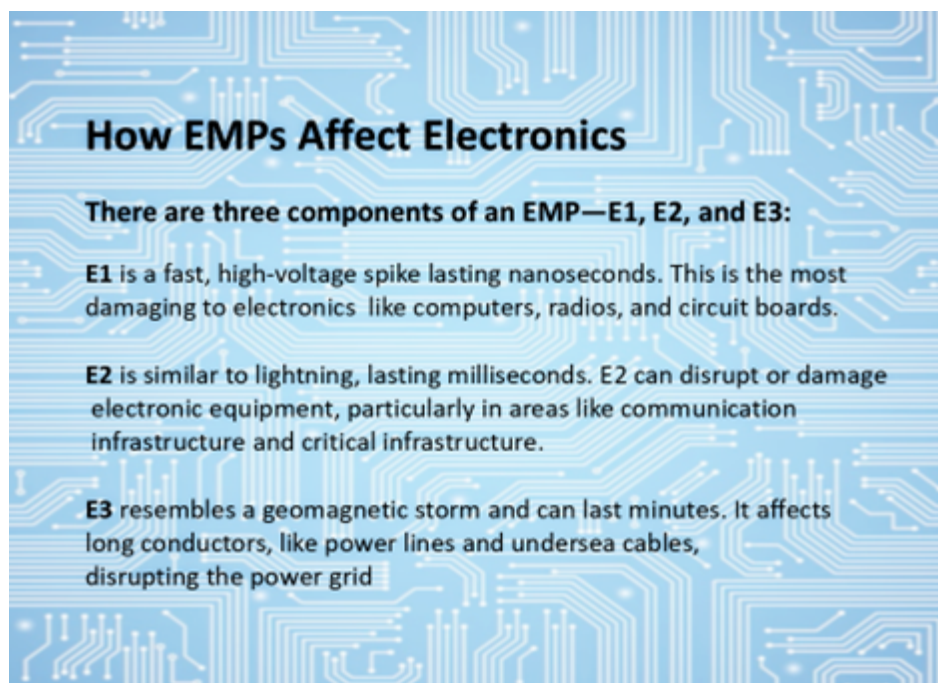
EMP Effects on Radios

EMPs can induce high voltages and currents in wiring and circuitry, potentially damaging or destroying components such as transistors, microprocessors, and sensitive front-end circuitry. The HF bands utilized by many ham radio operators are more susceptible to EMP damage because they fall within the frequency range where EMP energy is concentrated.

There's a common belief that older analog radios are immune to EMP, but this isn't entirely accurate. Vacuum tube equipment and older, simpler designs are generally more robust than modern solid-state devices. Still, they are not immune if directly connected to power lines or antennas during an EMP event. I'll have to admit that I still keep my old Heathkit HW-101 and power supply in storage, testing it once or twice a year—just in case.

On the other hand, handheld radios (HTs), especially those not connected to external antennas or powered on, stand a better chance of surviving. These devices, stored in protective metal enclosures, are even more likely to withstand an EMP strike.

An EMP originating from a large enough solar flare can destroy, if not temporarily disable, ham radios or other electronic devices such as cell phones, computers, televisions, and home control devices. This is because, like a radio antenna, each device can absorb a bit of that high-energy pulse. Using the same radio antenna analogy, the smaller the device, the less it can absorb the pulse. Fortunately, most of these electronic devices can be easily protected from a typical solar EMP event.



(Image/K8MSH)

Protective Measures

Containers that provide effective EMP shielding against an average-sized solar attack include your car, refrigerator, aircraft, a shipping container, and

your house—if it's covered with aluminum siding. Some household metal containers—such as paint cans, metal garbage cans, metal ammo cans, and cookie tins—can also serve as effective shields. If you want to use a more extreme solution, enclose the equipment inside a Faraday cage.

Other suggestions include:

- Disconnect equipment: The most basic measure is to disconnect radios from power outlets and antennas when not in use. It makes good sense to disconnect them, something many of us do when there's a thunderstorm.
- Surge protectors: Installing surge protectors or transient voltage suppressors on power lines and antenna connections can help divert EMP-induced surges.
- Grounding: Properly grounding your radio equipment and antenna system can help dissipate EMP-induced charges.

<https://www.onallbands.com/are-emps-a-real-threat-to-ham-radios/>

Community Events:

July

Saturday 12th ARES Meeting 10a-12p

Monday 14th SARA Meeting 7p-8p

August

Saturday 9th ARES Meeting 10a-12p

Monday 18th SARA Meeting 7p-8p

September

Saturday 6th ARES Meeting 10a-12p

Monday 15th SARA Meeting 7p-8p

October

Saturday 18th ARES Meeting 10-12p

Friday-Sunday (17-19) Pacificon San Ramon
Marriot

Monday 20th SARA Meeting 7p-8p

November

Saturday 8th ARES Meeting 10a-12p

Tuesday 18th SARA Meeting 7p-8p

December

Saturday 13th ARES meeting 10a-12p

Tuesday 16th SARA meeting 7p-8p



Local Nets:



S.A.R.A. operates several repeaters.
These are located on Mt. Oso in Patterson, CA:
145.390 – pl 136.5
224.140 – pl 136.5
440.225 +pl 136.5
51.800 – pl 136.5

- Digital node 144.910, digipeater name "SARA".
- 145.110 – pl 136.5 is a low-level repeater located in Modesto, CA.

All SARA nets meet on the 145.390 – pl 136.5 repeater except where noted.
SARA Club net is every Tuesday (except the 3rd Tuesday) at 7:30pm.

The morning traffic and information net meets Monday through Friday from 7:00am to about 8:00am.

The Geezer net (It is not about age; it is all about attitude) meets Monday, Wednesday, and Friday mornings 9:00am to 9:30am.

The Ladies Chit Chat net has moved to every Thursday at 8:00pm for YL's.

The Stanislaus County ARES net meets every Wednesday at 7:30pm.
The Space net meets every Friday at 8:00pm

S.A.R.A. meets (temporarily) the third Monday (except July where it will be the second Monday) at 7:00pm at 3705 Oakdale Road Modesto, CA 95357.
The club website is www.saraclub.net .

The Stanislaus County ARES generally meets the First Saturday of the month at 10:00am at 3705 Oakdale Road Modesto, CA 95357. Meetings can be changed due to training requirements please check the web site for current information. The web site is www.stanares.org.

Turlock Amateur Radio Club (W6BXN) weekly club net meets every Tuesday (except the 2nd Tuesday) at 7:00pm on 147.030 + pl 100 or 447.700 + pl 94.8.

TARC meets the second Tuesday at 7:00pm at the Salvation Army 893 Lander, Turlock, CA.

Merced ARES has a weekly net on Mondays at 7:00pm on the TARC repeaters. They have a monthly meeting the third Wednesday at 6:00pm at The Pizza Factory 3146 G Street #147 Merced, CA 95340.

San Joaquin Valley Section ARES Net every Sunday at 7:00 pm on the TARC repeaters.

TARC web site is www.w6bxn.org and Merced ARES is www.mercedares.org

2025 SARA Club Officers and Board Members

Officers:

President John Otte, K6JRO	jrottejr@yahoo.com
Vice President: Brian Esser, KN6QFF	sixtyeight426@gmail.com
Secretary Scott Griffin, N6CIC	scottandalene@msn.com
Treasurer Scott Johnson, KN6RKY	sliefjohnson@gmail.com
Sergeant at Arms Robin Axton, KG6ZYQ	axtonrbn@hotmail.com

Board Members:

Richard Aal, W8AAL	dick_aal@comcast.net
Cheryl Niles, KK6GJM	kk6gjm@samobil.net
Scott Daniels, KN6OOV	kn6oov@arrl.net
Mark Price, N6ARP (past-president)	n6arp@arrl.net

Club Trustee: Lucian Thomas, KF6NPG kf6npg@aol.com

Committees/Workgroups:

Club Technician: Patrick Dunbar, KG6AZZ	patd@kg6azz.net
Readout Editor: John Otte, K6JRO	jrottejr@yahoo.com
Community Events: Jim (Wally) Walsh, KK6CPN	kk6cpn@yahoo.com
Stanislaus County ARES:	
Emergency Coordinator: Jim (Wally) Walsh, KK6CPN	kk6cpn@yahoo.com



Local Area Frequencies

Name	Frequency	Off set	Tx Tone	Description
VHF Call	146.520	none	none	VHF Simplex
VHF Local	147.540	none	none	Local VHF Simplex
SARA Hi	145.390	- (negative)	136.5	SARA VHF Mt. Oso
SARA Lo	145.110	- (negative)	136.5	SARA VHF Downtown Modesto
MMC	146.355	+ (positive)	156.7	Memorial Hospital Modesto
TARC	147.030	+ (positive)	100.0	Turlock Amateur Radio Club Mt. Bullion
TARC	147.000	+ (positive)	100.0	Turlock Amateur Radio Club Turtle Dome Yosemite National Park
CARS	145.170	- (negative)	100.0	Calaveras Amateur Radio Society Fowler Peak
Stockton	147.165	+ (positive)	107.2	Stockton Delta ARC Sierra Nevada Mountains
Lodi	147.090	+ (positive)	114.8	Lodi Amateur Radio Club
Manteca	146.985	- (negative)	100.0	Manteca Amateur Radio Club Manteca Water Tower
TCARES	145.290	- (negative)	100.0	Tuolumne County Amateur Radio and Electronics Society Moccasin
UHF Call	446.000	No offset	No tone	UHF simplex
SARA	440.225	+ (positive)	136.5	SARA UHF Mt. Oso
TARC	444.700	+ (positive)	94.8	Turlock Amateur Radio Club Mt. Bullion
TARC	440.300	+ (positive)	94.8	Turlock Amateur Radio Club Kings Canyon Sequoia
CARS	441.0375	+ (positive)	151.4	Calaveras Amateur Radio Society Bear Valley (Mt. Reba)
CARS	441.875	+ (positive)	100.0	CARS Summit level Arnold linked to 145.170
Stockton	442.250	+ (positive)	107.2	Stockton Delta ARC Sierra Nevada Mountains
SARA	224.140	- (negative)	136.5	SARA 220 Mt. Oso
TARC	224.960	- (negative)	156.7	Turlock Amateur Radio Club 220 Mt. Bullion

As of January 27, 2023

CARS vhf frequency corrected, and Lodi added January 27, 2023

For further information please refer to each radio club's web site:

SARA www.saraclub.net

TARC www.w6bxn.org

CARS www.calaverasars.org

Stockton www.w6sf.org

Manteca www.facebook.com/groups/k6man

TCARES www.tcares.net

Lodi www.lodiarc.net

STANISLAUS AMATEUR RADIO ASSOCIATION (SARA) MEMBERSHIP FORM



Check One: New Member___ Renewing Member___ Family Membership___

NAME: _____ CALLSIGN: _____

ARRL Member:(Yes) (No)

ADDRESS: _____ CITY: _____

ZIP: _____ PHONE: Home _____ Cell: _____

E-Mail: _____

ADDITIONAL FAMILY MEMBERS AT SAME ADDRESS:

NAME: _____ CALL SIGN: _____ ARRL: (Yes) (No)

e-mail _____

NAME: _____ CALL SIGN: _____ ARRL: (Yes) (No)

e-mail _____

NAME: _____ CALL SIGN: _____ ARRL: (Yes) (No)

e-mail _____

NAME: _____ CALL SIGN: _____ ARRL: (Yes) (No)

e-mail _____

TOTAL DUES PAID: _____ Date: _____

One-year membership dues are \$30.00 (if paid by cash, check, or money order). Family Dues are \$45 and is the same for all methods of payment.

Note: Bring membership form to SARA Meeting or Mail to: SARA Club, P.O. Box 4601, Modesto, CA 95352-4601

April 3, 2021

