November 2023

County of Orange RACES
NetControl

Newsletter of the County of Orange Radio Amateur Civil Emergency Service

Next OCRACES Meeting

Online on Zoom

Review of Drills

Monday, November 6, 2023 at 7:30 p.m.

Orange County Sheriff's Department Emergency Management Division

CRO's Nest
by Ken Bourne, W6HK, OCRACES Chief Radio Officer

Renewing Your License

During a recent OCRACES net, a City RACES member looked up the net control station on https://www.qrz.com and discovered our member's license was about to expire that week! The city ham notified me and then I notified our surprised license-expiring member. Our member was concerned about the complexities of renewing his license and that he would not be able to operate if the FCC took a long time to process the renewal. (Moral of the story: check your license expiration date!)

You may renew no earlier than 90 days prior to expiration. If your license expires, you may apply for renewal during a two-year filing grace period, during which your license class and call sign remain valid, but you cannot operate until you receive your renewed license.

The FCC now charges $35 to renew an amateur radio license. You must create a COmmission REgistration System (CORES) account to pay the fee. Visit the FCC CORES webpage at https://apps.fcc.gov/cores/userLogin.do to set up your account. You will need to fill in your FCC Registration Number (FRN). If you don't know your FRN, you can look it up at https://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp.

To renew your license, go to https://www.fcc.gov/wireless/support/knowledge-base/common-amateur-filing-tasks/common-amateur-filing-task-renewing for instructions. On that page, you will be instructed to log into the Universal Licensing System at https://www.fcc.gov/wireless/universal-licensing-system. Click "File Online" to log into the License Manager, where you will need your FRN and FRN password (not CORES password). With your license in the renewal window, you will see a box stating "THIS LICENSE IS ELIGIBLE FOR RENEWAL." Click the "BEGIN THE RENEWAL PROCESS" link. Then follow the renewal and payment instructions to pay the $35 fee. Print or save the payment confirmation page and then log out. You will quickly receive an email from the FCC with a link to your official license. The link will be valid for 30 days.

At any time, you may view, save, and print your license by going to the License Manager at https://wireless2.fcc.gov/UlsEntry/licManager/login.jsp and logging in with your FRN and FRN password (not CORES password). ✦

OCRACES Zoom Meeting: Nov. 6th

The next County of Orange RACES meeting will be online on Zoom on Monday, November 6, 2023, at 7:30 p.m. During this meeting, we will review the October 7th City/County RACES & EmComm ACS Drill and the October 19th ShakeOut earthquake drill.

✦

OCRACES Welcomes Three New Members!

On Wednesday, October 4, 2023, OCRACES gained three new very qualified members—PSRs Joel Bishop, AJ6ZP, Robert Moore, KW6B, and Ryan Moore, KN6WSJ.

Joel Bishop, AJ6ZP

Joel has been involved in community service his entire life. He has served on many boards and committees including the Board of the South Coast Water District for 10 years (1996-2006), Dana Point City Council (2006-2010), Mayor of Dana Point (2007-2008), El Niguel Country Club Board, Dana Point Historical Society, Foundation Board of South Coast Medical Center, and others.

Joel Bishop, AJ6ZP.

Joel's career was diverse with employment with the County of Orange, where he was a project manager in the design and construction of the OC Data Center, which was a large, essential facility for the County. He started his own company in 2000, which designed and implemented software solutions for the Toll Road industry. He grew the company to over 200 employees and projects throughout North America, including the Golden Gate Bridge, TCA Toll Roads, and many projects in Texas, Arizona, Florida, Minnesota, and Halifax. He sold the company in 2010.

In 2016 Joel became a hiking advocate. He trained for 11 months to prepare for a summit of Mount Whitney. In October 2017 he and his son completed a one-day, 22-mile hike of Whitney and reached the 14,505-foot summit! Subsequently, he hiked nearly every peak in Southern California, including Mount Wilson, Cucamonga Peak, Mount San Antonio, San Bernardino Peak, Mount San Jacinto, San Gorgonzola, Sitton Peak, Mount Baden-Powell, Ontario Peak, and Santiago Peak. He became interested in ham radio when a colleague told him about Summits on the Air!

Joel has been involved in disaster preparedness since 1975. He took CERT training in 2013 and 2023 and then ham radio fit right into his mindset. He took three years to obtain all three levels of ham licenses, culminating in his Amateur Extra in 2022. He also was licensed in GMRS radios. He joined Laguna Niguel ACS in 2021 and has been active with that group. He was interested in joining OCRACES for years and learned about the process at an LNACS meeting. Subsequently he became a PSR in 2023.

Recently, Joel has been focusing on D-STAR, Winlink, and APRS.

Robert Moore, KW6B

Since having been a member of IDEC since 2019, Robert has been involved in all aspects of emergency communications. Since joining IDEC, he has known about OCRACES from newsletters circulated by IDEC leadership, and so recently decided to see what RACES was all about, visiting the website. Robert says he was not only intrigued by OCRACES' accomplishments but excited to know he could put his license and skills to use in support of Orange County and the Sheriff's Department. His interest in public service began as a law-enforcement explorer for the Ventura County Sheriff's department, and later continued with IDEC for the police department in the City of Irvine, where he has lived for nearly 30 years. Being bitten by the radio bug, he first got licensed as a Novice at 14, becoming KA6CQF, working up to General, and finally getting his Extra class in the early

Robert Moore, KW6B.

2000s, changing his call sign to KW6B. His current interests in ham radio are the different forms of digital communications, including APRS, Winlink, Fusion, WiresX, and mesh networks, and also enjoying CW and contesting. As a professional, he is a Business Systems Analyst in the construction industry, working in IT to lead the definition, design, and development of technical solutions. His and his wife's son Ryan is interested in emergency management and public service and, in the last year, obtained his Technician license and just joined as a PSR with OCRACES along with Robert.

Ryan Moore, KN6WSJ

Ryan became an OCRACES members alongside his father and elmer, Robert Moore, KW6B. Ryan is very passionate about pursuing a career in public service and safety. He hopes to grow with OCSD while being able to give back to the community he was born and raised in.

Ryan Moore, KN6WSJ.

Ryan began his upper education at Irvine Valley College where he earned his Associate's degree in Social and Behavioral Sciences. Next, he attended California State University, Fullerton, where he pursued his Bachelor's in Criminal Justice, minoring in Public Administration while interning in emergency management with the campus police department. Recently, he graduated from University of California, Irvine, with his Master's in Criminology, Law & Society. Now, he is attending Southern New Hampshire University for a Bachelor's in Cybersecurity, concentrating in Project Management.

Ryan's entire professional career has been in private security. He has been working at the Disneyland Resort for over five years, where he has cross-trained to security positions all across the resort and promoted into supervisor and trainer roles respectively. He also specializes in the monitor room where they helm one of the most advanced CCTV systems in the region. He awaits training for other specializations including the dispatch center and the scheduling center.

Volunteering for Ryan began in high school and has continued throughout his academia in extracurricular clubs. In addition, he was a sheriff's law-enforcement explorer for a couple years and had served in CERT for a few years prior to the pandemic. He recently got his Technician license and is working on getting his General and Extra class licenses while going to school. ✦

City/County RACES & EmComm Drill: Oct. 7th

A City/County RACES & EmComm ACS Drill occurred on Saturday, October 7, 2023, from 0900 to 1200 hours for the simplex portion. Conducting operations from the Orange County EOC at Loma Ridge were OCRACES Chief Radio Officer Ken Bourne, W6HK, with Joel Bishop, AJ6ZP, on 2 meters and Robert Moore, KW6B, on 60 meters. Both Joel and Robert became OCRACES members just three days prior to the drill and did a great job. Scott MacGillivray, KM6RTE, skillfully handled the Winlink portion of the drill. Observing our operations was Anton Hochschild, KM6RQY, Anaheim RACES Assistant Chief Radio Officer.

The scenario for this drill was a series of cyberattacks that disabled major infrastructures, including power and gas utilities, water and wastewater facilities, telephone companies, cable systems and internet service providers, hospital networks, banks and other financial institutions, law-enforcement and other government administrative systems, transportation systems, dams, education, and postal and shipping services. In addition, all repeaters had failed, and all communications were on simplex frequencies.

Communications consisted of simplex communications on 2 meters FM and HF NVIS (Near Vertical Incidence Skywave) on 60 meters. OCRACES net control operated from the Orange County EOC. Most City and County RACES and EmComm members operated portable stations at locations that needed to be tested for local and countywide simplex radio coverage.

The simplex drill ran from 0900 to 1200 hours. On 2 meters, the first hour was devoted to communicating with each RACES unit's own members on their primary simplex frequency. Check-ins included simulated emergencies and requests for resources. The remaining two hours were for communications between OCRACES and city net controls on 146.595 MHz, while city RACES and EmComm members continued to call their net controls for urgent resources.

Joel Bishop, AJ6ZP, ran the 2-meter net at Loma Ridge. From 0900 to 1000 hours, OCRACES members checking in included Robert Stoffel, KD6DAQ, Ken Tucker, WF6F, Chi Nguyen, KE6MVS, Ron Mosher, K0PGE, Randy Benicky, N6PRL, and Fran Needham, KJ6UJS, as well as OCSD Emergency Management Division Deputy Director Lee Kaser, KK6VIV, who was driving through the canyons and checking coverage. At 1000 hours, RACES units from Anaheim, Brea, Costa Mesa (MESAC), Tri-Cities (Dana Point, San Clemente, and San Juan Capistrano), Fountain Valley, Mission Viejo, and Orange, as well as the Newport Beach Repeater Club, checked into OCRACES and gave their reports of check-ins during the previous hour. Gordon West, WB6NOA (MESAC) reported that 50 gallons of fuel were needed at the Costa Mesa Fire Station.

Robert Moore, KW6B, ran the 60-meter net on 5371.5 kHz upper sideband. At first, net control used the same roll call of Orange County City and County RACES and EmComm stations as on the Saturday morning OCRACES ACS net. Check-ins included: Dale Tyler, W6EDT, for Mission Viejo RACES; Gary Standard, K6GSX, and Roy Shlemon, K6GVG, for Newport Beach Repeater Club; Gordon West, WB6NOA, for Costa Mesa RACES (MESAC); Garry Jones, N6NQN, for Fountain Valley RACES; Pete Bergstrom, K6PB, for Irvine RACES (IDEC); Steve Livingston, NJ6R for OCRACES; Bruce Bonbright,

Joel Bishop, AJ6ZP, on 2 meters.

Robert Moore, KW6B, on 60 meters.

NH7WG, for Laguna Woods RACES; Bill Kreutinger, KM6SLF, for Tri-Cities RACES; and Paul Gussow, NJ6U (Cypress), and Craig Williams, W6CAW (Campo, San Diego County), for Cal OES Communications Reserve Unit. Non-EmComm stations included Neil Smith, K6KWI (Anaheim Hills), and Tony Scalpi, N2VAJ (Orange).

Scott MacGillivray, KM6RTE, ran the Winlink portion of the drill. Messages were accepted over a 24-hour period, from 1500 hours on Friday to 1500 hours on Saturday. See his report on page 4 of this issue. ✦

OCRACES CRO Ken Bourne, W6HK.

Scott MacGillivray, KM6RTE: Winlink.

Winlink in Orange County
by Scott MacGillivray, KM6RTE, KM6RTE@gmail.com

Results from Winlink Portion of the October 7th Countywide ACS Drill

The goals for the Winlink portion of the Fall 2023 countywide ACS drill were:

a) To provide Winlink operators the opportunity to gain experience and demonstrate operation of their Winlink stations by transmitting a message with an attached Field Situation Report form.

b) To access the level of Winlink usage across the county and identify current Winlink operators.

As described in the Winlink exercise portion of the countywide ACS drill instructions, operators were to prepare a message with an attached Field Situation Report form and send it to OCRACES tactical and member addresses. The Winlink exercise was open to all licensed amateur radio operators that have Winlink stations in Orange County, California, and not exclusive to just the city agencies.

In order to maximize the delivery options with the OCRACES Winlink RMS Gateways currently offline and the limited (but growing) number of gateways available in Orange County, the Winlink message could be sent using any communications mode, including telnet (i.e., direct connection to internet).

A detailed compilation of the messages received by operator KM6RTE were recorded in the ICS-309 Communications Log automatically generated by Winlink Express. A summary of key information is provided in Table 1.

Information was requested about the Winlink operator's role in their city or EmComm organization that they were participating on behalf of. In total, 13 organizations were represented and the operators identified a total 29 instances of membership with these organizations. Refer to Table 1 for details on the organizations identified. These numbers are approximately the same as with previous countywide drills.

In support of the first objective, the exercise demonstrated that the Winlink operators in Orange County are generally proficient in reporting and supporting ACS EmComm needs. Almost all operators correctly filled out the report Header (Precedence, Date/Time, & From/To),
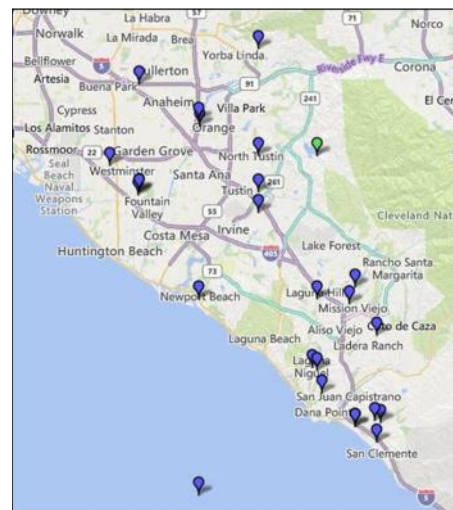
Table 1. Summary of Winlink activity during ACS drill.

Parameter¤	Value¤	Details / Comments¤
Number of messages sent and received for the exercise.	Approximately 70¤	Approximately the same number of messages compared to the May 2023 ACS exercise.¤
Messages received from unique Winlink accounts.¤	26¤	Approximately 4 less operators than the May 2023 ACS exercise. Many operators sent multiple messages from same Winlink account.¤
Message Types-¤	→Field Situation Report ¶ →No attached form (plain text)¶ →Winlink Check-In form ¤	→22 ¶ →3 ¶ →2 ¤
City / MOU organizations represented ¶ -→Some operators reported membership in multiple organizations ¤	→29 instances of membership identified ¶ →13 different organizations¤	→OCRACES (6) ¶ →No Organization Info Provided (5)¶ →Tri Cities RACES (4) ¶ →Mission Viejo RACES (3) ¶ →IDEC (2) ¶ →LNACS (2) ¶ →OCHEART (2) ¶ →Fountain Valley RACES (2) ¶ →Fullerton RACES (2) ¶ →Brea RACES (2)¶ →COAR (1)¶ →Anaheim RACES (1) ¶ →OC Fire Watch (1)¶ →Laguna Woods RACES (1) ¶ →Independent (1) ¤

Lines 1 -3 (Emergency: Yes/No, Location, and Lat & Lon), as well as providing contact information in the Footer (Comments & POC). However, a significant number of operators (42%) didn't answer the questions in the body of the report (Lines 4 – 11) by just leaving default N/A responses. It was recommended in the ACS instructions to complete as much of the form as possible, and there would be "extra points" for creativity. This completion rate is a decrease from last May's countywide ACS drill, which had 68% fully compliant Field Situation Reports received.

In support of the second objective, and based on ongoing correspondence with many Winlink operators in Orange County, it is suspected that the 26 participating operators represent only about 20% of the total currently active Winlink operators in Orange County. Many of these operators are the same that have participated in previous countywide exercises. Hopefully, if we were to have an actual countywide disaster, a larger number of Winlink operators will be able to provide a contribution to countywide EmComm.

The constantly improving Winlink Express software has been adding more capability to handle the GPS location information included in its various forms, including the Field Situation Report form. Figure 1 is one of the map display options

Figure 1. Automatically generated map showing locations of Winlink stations in Orange County that included GPS information in their Field Station Report forms. I guess we had someone report from their boat off the coast. :)

showing the locations ("pins") of the stations reporting their GPS locations included in the Field Situation Report form. If an operator didn't enter their exact location, the Winlink Express software generally defaults to the center of their grid location for the GPS location. This would explain why there are fewer than the 26 stations shown; several locations shown might represent more than one station reporting. ♣

October 19th ShakeOut Drill Has 34 Check-ins

On Thursday, October 19, 2023, the Great California ShakeOut officially occurred at 10:19 a.m. In conjunction with this event, OCRACES conducted an earthquake drill that day from 1000 to 1100 hours, simulating a strong earthquake striking Orange County. Net control asked for locations and observation reports from participants in county and city RACES and EmComm units via the 146.895 MHz repeater and via Winlink. Simulated reports were given as "Mike-Mike" intensities, using the USGS Modified Mercalli Earthquake Intensity Scale. The drill had 34 check-ins.

The international Great ShakeOut is the world's largest earthquake drill. It is held annually on the third Thursday of October, and millions of people participate all over the world.

OCRACES, along with amateur radio operators throughout the United States, participated by registering for the Great ShakeOut with Earthquake Country Alliance (ECA). Winlink groups participated by sending their DYFI ("Did-you-feel-it?") exercise reports to the United States Geological Survey (USGS).

OCRACES Chief Radio Officer Ken Bourne, W6HK, operated ShakeOut net control from the EOC RACES Room at Loma Ridge. OCRACES members checking in with Mike-Mike reports and observations throughout Orange County included: Heide Aguirre, K3TOG; Assistant Radio Officer Randy Benicky, N6PRL; Joel Bishop, AJ6ZP; Steve Livingston, NJ6R; Scott MacGillivray, KM6RTE (also for COAR); Robert Moore, KW6B; Ryan Moore, KN6WSJ; Chi Nguyen, KE6MVS; Robert Stoffel, KD6DAQ; and Ken Tucker, WF6F.

Members of several City RACES units checking into OCRACES net control. Brea RACES, W6BRE. For Costa Mesa RACES (MESAC): Ashley Fisher, KM6UJD; and Don Haddock, KN6QDV. For Fountain Valley RACES: Ken Hemkin, KK6OEX; and Garry Jones, N6NQN. Fullerton RACES, K6FUL. For Irvine RACES (IDEC): Pete Bergstrom, K6PB; Avram Grossman, KN6BMO; and Steve Skwarlo, WB6CJH. For Laguna Niguel ACS (WE6ACS): David Black, WB6VEM; Kevin Korff, KK6KUR; Marlene Ruderman, KN6USQ; and Haney Williams, KJ6JIA (in Anaheim). For Laguna Woods RACES: Bruce Bonbright, NH7WG. For Mission Viejo RACES-ARES: Cher Baker, K6CHR; Scott Holcomb, K6WHC; and Phil Lonzello, WA6LDI. For Placentia RACES: Duke Walls, W6EIF (in Yorba Linda). For Westminster RACES: Adam Valek, N6HVC. Other EmComm check-ins included: Gary Standard, K6GSX, for Newport Beach Repeater Club; Robert Gimbel, KG6WTQ, for American Red Cross; and David Gorin, KB6BXQ, for OCHEART. Carlos Adams, KE6QEU, checked in from Naval Weapons Station Seal Beach. ✦

FCC To Vote on Symbol Rate Restrictions

The Federal Communications Commission (FCC) has scheduled a vote to consider removing symbol rate restrictions that restrict digital modes, foster inefficient spectrum use, and dampen incentives for innovation.

In the draft Commission decision, the FCC would replace the current HF restrictions with a 2.8-kHz bandwidth limit. The Commission also announced that it will consider a Further Notice in which it will propose eliminating similar restrictions where they apply in other bands and consider relying on signal bandwidth limits. If both actions are adopted by the Commission, there will be a period for public comment on the Further Notice issues.

In announcing the proposed Commission actions, FCC Chairwoman Jessica Rosenworcel said that "We're bolstering amateur radio. We will vote on a proposal to incentivize innovation and experimentation in the amateur radio bands by removing outdated restrictions and providing licensees with the flexibility to use modern digital emissions."

ARRL requested and strongly supports replacing the symbol rate limits on the HF bands with a 2.8-kHz bandwidth limit. ARRL also supports eliminating the symbol rate limits in favor of the already-existing bandwidth limits where they apply on the VHF and UHF bands and eliminating the similar limits on the 2200- and 630-meter bands.

ARRL Director of Emergency Management Josh Johnston, KE5MHV, said the changes will result in a tremendous time savings during disasters, when every second counts. "We will be very pleased to have the FCC remove the restrictions on symbol rate for the amateur bands. This will eliminate the need for temporary waivers during an event and provide the ability to train and exercise using the higher symbol rate, allowing increased data capability to our served agencies and partners."

Congresswoman Debbie Lesko (AZ-08) introduced The Amateur Radio Communications Improvement Act (H.R. 3241) on May 11, 2023, to require that the FCC eliminate the obsolete HF digital symbol rate limit, replaced with a 2.8 kHz bandwidth limit.

The Congresswoman subsequently addressed the issue with Chairwoman Rosenworcel in a Congressional oversight hearing. The changes are supported by many state emergency management officials. ✦

Countywide RACES/EmComm News

Anaheim RACES

Anaheim RACES Assistant Chief Radio Officer Anton Hochschild. KM6OQY, observed OCRACES operations at the Orange County EOC RACES Room during the City/

Anaheim RACES Assistant Chief Radio Officer Anton Hochschild, KM6OQY, at Orange County EOC RACES Room Position 1, during the October 7th City/County RACES & EmComm ACS Drill.

County RACES & EmComm ACS Drill on Saturday, October 7, 2023, thereby enhancing the relationship and cross-training between the two RACES units. (See article on page 3 of this issue.)

Seal Beach/ Los Alamitos RACES

Team members from Seal Beach/Los Alamitos RACES conducted an extensive Citywide Emergency Training Exercise on

Los Alamitos EOC during the October 19th Great ShakeOut Drill.

Thursday, October 19, 2023, as part of the State and countywide Great ShakeOut disaster preparedness exercise. Fifteen members of the combined City Team simulated an area view of the "disaster" as it affected both cities. "This is a drill" was announced via amateur radio as each radio amateur reported a fictional description of "damage" and "injury" needs to net control operators locat-

ed in each City. Net control captured the emergency traffic and simulated forwarding the "need" messages to Incident Commanders within each EOC. The radio amateurs described the earthquake impacts in various areas, using the Modified Mercalli Intensity Scale from MM1 to MM10. In Seal Beach, amateur operations use the roof top of the Boeing building to house antennas and repeaters, modified to withstand an 8.0 earthquake

Orange County ARES

Tom Cowart, W6ETC, has been appointed Assistant Section Emergency Coordinator (ASEC) for Orange County. Tom will oversee the ARES program in Orange County and assist where and when needed. He joins the other ASECs for the ARRL Orange Section—John Shepherd, AD6NR, Inyo County, and Bob Smith, KO6BOB, San Bernardino County.

Tom's interest in radio began in his teen years with CB radio and he participated with Orange County REACT. Now, many years later, he continues his interest in emergency communications and regularly operates in VHF, UHF, and HF nets. He was responsible for the Net-at-9 net during the COVID shutdown, which continues to this day on the CARA repeater. Tom can be reached at tom@w6etc.com.

Ham Radio Class

A two-day licensing class (with a 35-question exam, no time limit, administered on the last day) for the Technician Class amateur radio license will be held on November 4-5, 2023, from 0800 to 1700 hours, at the Sheriff's Station, 18135 Bloomfield Ave., in Cerritos. Register by sending a check or money order for $75 (which includes Gordon West's Q&A textbook study guide, study tips, miscellaneous materials, refreshments, breakfast pastries, coffee, etc.), made out to WynnsRadio. Mail it to R. Wynkoop, P.O. Box 3793, Cerritos, CA 90703. The separate $14 exam fee will be collected on Sunday, November 5th, just before the exam. The class includes live lectures and demonstrations, live radios, and lots of electronic components to examine.

November 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4 Weekly 60 m ACS Net
5	6 Weekly 2 m ACS Net & OCRACES Meeting	7	8 Orientation for PSR Applicants	9	10	11 Weekly 60 m ACS Net
12	13 Weekly 2 m ACS Net	14	15	16	17 Orange County Amateur Radio Club Meeting	18 Weekly 60 m ACS Net & PSR Prescreen
19	20 Weekly 2 m ACS Net	21	22	23 Thanksgiving Day	24	25 Weekly 60 m ACS Net
26	27 ACS Nets on 4 Bands	28	29	30		

Upcoming Events:

- **November 6, 1930 hours:** OCRACES monthly meeting online on Zoom

- **November 8, 1830 hours:** Orientation for PSR Applicants, Sheriff's Regional Training Academy, Tustin

- **November 17, 1900 hours:** Orange County Amateur Radio Club Meeting, American Red Cross (George M. Chitty Building), 600 Parkcenter Drive, Santa Ana

- **November 18, 0900 hours:** Prescreen for PSR Applicants, Sheriff's Regional Training Academy, Tustin

- **November 23:** Thanksgiving Day

https://ocraces.org

Mission Statement

County of Orange RACES has made a commitment to provide all Public Safety departments in Orange County with the most efficient response possible to supplement emergency/disaster and routine Public Safety communications events and activities. We will provide the highest level of service using Amateur and Public Safety radio resources coupled with technology, teamwork, safety, and excellence. We will do so in an efficient, professional, and courteous manner, accepting accountability for all actions. We dedicate ourselves to working in partnership with the Public Safety community to professionally excel in the ability to provide emergency communications resources and services.

County of Orange RACES Frequencies

60 m: 5371.5 kHz USB (dial) (Channel 4) (OC ACS Net—Saturdays, 1000 hours)
40 m: 7250 kHz LSB
10 m: 29.640 MHz output, 29.540 MHz input, 107.2 Hz PL (down for repair)
6 m: 52.620 MHz output, 52.120 MHz input, 103.5 Hz PL
2 m: 146.895 MHz output, 146.295 MHz input, 136.5 Hz PL*
2 m: 146.595 MHz simplex
1.25 m: 223.760 MHz output, 222.160 MHz input, 110.9 Hz PL
70 cm: 446.000 MHz simplex
70 cm: 448.320 MHz output, 443.320 MHz input, 141.3 Hz PL (private)
70 cm: 449.100 MHz output, 444.100 MHz input, 110.9 Hz PL (private)
70 cm: 449.180 MHz output, 444.180 MHz input, 107.2 Hz PL (private)
70 cm: 449.680 MHz output, 444.680 MHz input, 131.8 Hz PL (private)
*Primary Net—Mondays, 1900 hours

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"W6ACS ...
Serving
Orange County"

Meet Your County of Orange RACES Members!

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