



THE COASTSIDE COMMUNICATOR

VOL. 55

No. 7 ~ JULY 2023

WWW.COASTSIDEARC.ORG



Walt Long III – KG6EDY – SK
Rest In Peace Friend

PRESIDENT'S COLUMN

I have sad news this month. Our fellow ham, Walt Long KD6EDY unexpectedly passed away in June. Several of us had noticed that Walt had not shown up on the net and in-person meeting at CARC and at the San Bruno Radio Club. Dave Dornlas KN6KOO from SBRC contacted the Brisbane Police who found Walt unresponsive at home.

We will all miss Walt. As well as being a knowledgeable ham, he was a great contributor to our club, volunteering for all our events and in particular he was the Club President. Walt was well known throughout the Bay Area as a knowledgeable and helpful ham. As well as serving as President of CARC, he was also the President of San Bruno Radio Club for a time.

Field Day was not the same without Walt, but we pulled together thanks to the leadership of Jon N6SJF and the help of George KJ6TSX and others. We also had a few visitors. Our performance was about the same as last year (results upcoming) with quite a few CW contacts.

We have an outing scheduled this month on July 22nd at the California Historical Radio Society. Its home in Alameda has been undergoing restoration work and it will be good to see the progress and see the show. There will also be an electronics sale and an auction. Let me know if you plan on attending. Details can be found at <https://californiahistoricalradio.com/event/chrs-radio-day-by-the-bay-2023-live-in-alameda/>

73, Steve KN6ORM
Club President

CARC JUNE 14, 2023 MEETING MINUTES

Call to Order

The June 14, 2023 meeting was called to order at 7:35pm by President Steve Austin-KN6ORM, at the Linda Mar Fire Station, Linda Mar, Pacifica. Attempting to include participants via Zoom.

Self-introductions

Introductions by members in attendance.

Minutes

Motion made by Ralph-KC6YDH and seconded by Ron-WB9EGG to approve the May minutes as published in the June Coastside Communicator.

Motion passed by unanimous vote of the membership present.

TREASURER'S REPORT

The funds provided by the Treasurer as of May 31, 2023 are:

General Fund	\$	3,538.23
Repeater Fund	\$	2,454.00
APRS/Digipeater	\$	1,511.00
EOC/Public Service	\$	15,730.00
Grand Total	\$	23,233.23

Membership – A/O end of May 2023, there are **49** paid members on the roster.

Bills needing approval – None

Correspondence – Jon updated the Press Release and submitted to Pacifica Tribune.

COMMITTEE REPORTS

Current Repeater

1. Status of current WA6TOW repeater: Working irregularly with noise issues.
2. APRS – No Report
3. Emergency Services – No Report

Replacement Repeater

Update on Replacement Repeater: No current report from Casey on temporary replacement repeater or from Walt on the new repeater.

NEWSLETTER – June Newsletter Published and emailed to Paul.

WEBSITE – Working. June Newsletter posted.

UNFINISHED BUSINESS

- A. 15-meter beam antenna – Progress – Frank & Gary still need to get together.
- B. 2023 CARC Schedule of Activities: Tabled to after Field Day.
- C. Speakers giving presentations via Zoom – Tabled until August 9th meeting.
- D. Permit fee of \$680 was paid in May to JUHSD for FD site at Oceana HS. Complete
- E. Second checking account and opening a CD - Tabled action to the July 12th meeting.
- F. Jon-N6SJF to look into renting box van and porta potty for FD. It was decided to rent an RV again. Ron to pick up 6/23 and return by 11am on 6/25.
- G. Discussion on FD supplies and number of radio setups. Supplies are in order with the members.

NEW BUSINESS

- A. Newsletter Survey Results: Have only received 5 survey results. Will wait until July meeting to see if more results come in.
- B. There is a trip planned to the California Historical Radio Society Museum on Saturday, July 22, 2023. CHRS RADIO DAY BY THE BAY 2023 – LIVE IN ALAMEDA. 8am-3pm. \$10.00 Donation for the whole day. If interested, contact Steve-KN6ORM at kn6orm@gmail.com for more information and possible car-pooling.

Adjournment

Motion made by Ralph-KC6YDH and seconded by Steve-K6YUA to adjourn the meeting at 8:20pm. Meeting adjourned.

Present at the Meeting

Officers: President: Steve-KN6ORM, Vice-President: Absent, Secretary: Tom-KJ6OGL, Treasurer: Absent. Paul-AI6BB attempted to join Zoom, but had no audio.

Members: Steve-K6YUA, Ron-WB9EGG, George-KJ6TSX, Ralph-KC6YDH

Submitted by: Tom-KJ6OGL, Secretary

NEWS



Sadly, I need to let you all know that our friend and fellow Amateur Radio Operator, Walt Long III, KG6EDY, has passed away unexpectedly.

See post from San Bruno ARC's Dave-KN6KOO at:

<https://mailchi.mp/f2b15eb983d2/our-friend-walt-long-kg6edy?e=b531cd369d>

Cal Poly Amateur Radio Club achieves 2,000th License Milestone

06/20/2023



Student-run [Cal Poly Amateur Radio Club \(CPARC\)](#) at California Polytechnic State University in San Luis Obispo County just hit a licensing milestone.

On May 23, 2023, Kyle Wiens became the 2,000th person to pass the amateur radio exam given by CPARC since they started in 2009.

Wiens, now KO6ABA, is a Cal Poly alumnus and CEO of iFixit, a company that produces electronics repair guides for consumers. After learning about the approaching landmark, Wiens expressed immediate interest in being that 2,000th licensee.

Wiens and several interested members of the iFixit staff took a course from CPARC officers Mathew Shaham, KM6WIU, and Hunter Herring-Alderete, KN6RJA. Then they took an exam.

The session had 28 applicants and was the largest group of the year held by CPARC's Volunteer Examiners. Alumnus Marcel Stieber, AI6MS, served as session liaison and worked closely with student lead Andrew Fahey, KN6FIJ, to coordinate the exam.

CPARC uses an accelerated course licensing technique that became popular through Dr. Dennis Derickson's, ACOP, Freshman Licensing Initiative which started in 2011. Up until 2022, when the FCC began issuing a fee for new licenses, the initiative

provided class credit in the introductory course, Electrical Engineering E-111, for obtaining an amateur radio license.

The effort gave new electrical engineering students a preview of topics covered in further classes. It also afforded students a practical outlet for skills like radio contesting and volunteering as communications support for events. At the peak of the initiative, CPARC was licensing more than 100 operators in one 50-minute class period.

"It's a big milestone. Most exam teams don't make it to license number 2,000. I'm really proud to support the students running these exam sessions," Stieber said after the exam session. As the last papers were graded, the majority of student applicants passed in addition to every member of the iFixit crew.

Women of Influence in Engineering 2023 Ham



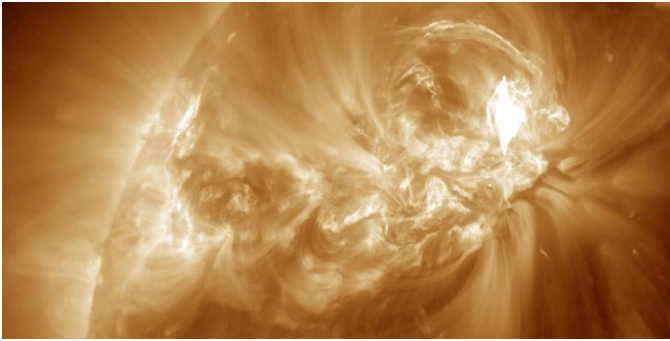
Honoree Michelle Thompson, W5NYV, Cofounder and CEO of the Open Research Institute (ORI), has been selected as a 2023 honoree for the Women of Influence in Engineering section published by the San Diego Business Journal. The publication celebrates female trailblazers and highlights the honorees careers and accomplishments.

Thompson has been an amateur radio operator for more than 25 years and was drawn to the hobby by her father and grandfather, who were amateur radio operators.

"We were a family of tinkerers, and my dad and granddad were always fixing and building things, including amateur radios," said Thompson. "Because of their influence, I was drawn to the vocation of helping people navigate difficult rules and regulations that impeded their learning and success."

In 2020, Thompson founded ORI, a nonprofit research and development organization that provides all of its work to the general public under the principles of [Open Source](#) and [Open Access to Research](#). She is responsible for amateur satellite service regulatory reform and is a member of the FCC Technological Advisory Council. Thompson is also chair of the Institute of Electrical and Electronics Engineers (IEEE) San Diego Section. She founded the IEEE Information Theory Society, as well as the local Open Source Digital Radio Group.

Thompson serves the ARRL Field Organization Southwestern Division as a Technical Specialist for the San Diego Section, and she is an ARRL Life Member.



Yesterday's X1.1 solar flare was associated with Type II and IV radio emissions which signaled that the solar flare like was eruptive. We indeed see on SOHO/LASCO imagery (see the animation below) that the eruption produced a fairly wide partial halo coronal mass ejection considering how close the eruption took place near the east limb. A glancing blow is possible late on June 23 but far from certain. If the cloud arrives, we expect only a limited impact. Geomagnetic storm conditions will be unlikely. Still something worth to keep an eye on for our friends in the southern hemisphere who are today experiencing the shortest day (and longest night) of the year.

Yesterday's X1.1 solar flare produced a fairly wide partial halo coronal mass ejection considering how close the eruption took place near the east limb. A glancing blow is possible late on June 23 but not certain. If the cloud arrives, we expect only a limited impact. pic.twitter.com/rz8MUc5132

— SpaceWeatherLive (@_SpaceWeather_) [June 21, 2023](#)

In Brief....

‘Mysterious dashes’ look like Morse code at the center of the Milky Way - Astronomers have captured hundreds of mysterious filaments pointing towards the Milky Way’s supermassive black hole. They could help uncover secrets about the dark abyss at the center of our galaxy. The strange horizontal strands are 25,000 light years from Earth, with scientists comparing them to the dots and dashes of Morse code — only these appear to be floating through space!

“It was a surprise to suddenly find a new population of structures that seem to be pointing in the direction of the

black hole,” says Professor Farhad Yusef-Zadeh of Northwestern University.

For more information: <https://bit.ly/3Na91Fn>

2023 ARRL Field Day Was a Success

2023 ARRL Field Day is in the books and from all indications, it was a success!

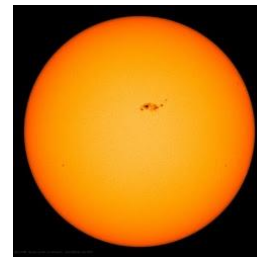
[Social media](#) is buzzing with stories and photos from around the country.

Results are coming in, and so far, 2,548 Field Day entries have been received. You can see a live, up-to-the-minute count of the entries, comments, and photos on the Field Day [Entries Received](#) web page.

Participants have been submitting photos and descriptions of their stations and setups to the [SOAPBOX](#) column.

The K7RA Solar Update

6/29/2023



Conditions were favorable over Field Day weekend, with the exception of a brief period where planetary K index was at 5 on Saturday night.

There were five new sunspot groups on June 23, two more on June 24, another on June 26, and another on June 27.

Average daily sunspot numbers were up, and solar flux was down.

The average daily sunspot number rose from 143 to 170, and the average daily solar flux declined slightly from 165.4 to 160.3.

This was unexpected because we normally see these values track together.

Predicted solar flux is 155 on June 29; 150 on June 30 through July 4; 145 on July 5; 135 on July 6 - 8; 145, 155, 160, 165, and 170 on July 9 - 13; 175 on July 14 - 18; 170 on July 19 - 21; 160, 150, 145, 145, 140, and 135 on July 22 - 27, and 130 on July 28 - 31.

Predicted planetary A index is 5 on June 29 - 30; 15 and 10 on July 1 - 2; 5 on July 3 - 7; 12 and 8 on July 8 - 9; 5 on July 10 - 11; a stormy 20 and 30 on July 12 - 13; 8 on July 14 - 23; 12 on July 24 - 25, and 8 on July 26 - 27.

Read about the cycle peak and see images at <https://bit.ly/3ps6iOI>.

Check out a useful glossary for space weather terms at <https://bit.ly/3XuimeQ>.

Sunspot numbers for June 22 - 28, 2023, were 176, 194, 200, 180, 158, 141, and 141, with a mean of 170. 10.7-centimeter flux was 173.2, 169.7, 160.8, 154.8, 157.7, 151.2, and 154.9, with a mean of 160.3. Estimated planetary A indices were 8, 9, 16, 15, 11, 8, and 8, with a mean of 10.7. Middle latitude A index was 8, 9, 16, 10, 11, 7, and 8, with a mean of 9.9.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean...", and [check out](#) the Propagation Page of Carl Luetzelschwab, K9LA.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.

A weekly, full report is posted on [ARRL News](#).

COMING EVENTS

CARC has a trip planned to the California Historical Radio Society Museum on Saturday, July 22, 2023.
CHRS RADIO DAY BY THE BAY 2023 – LIVE IN ALAMEDA. 8am-3pm. \$10.00 Donation for the whole day. If interested, contact Steve-KN6ORM at kn6orm@gmail.com for more information and possible car-pooling.

The **Silicon Valley VE** group is holding online amateur radio exam sessions on the first and third Saturday morning of every month. More information can be found at <https://www.svve.org>, or by emailing Morris Jones, AD6ZH at ad6zh.mj@gmail.com.

Upcoming amateur exam opportunities / via **BAEARS**: Our next session will be Saturday August 12 in Redwood City. Reservations are required so please visit our website at: <https://www.baears.com/> to register. You will find The "session Info" banner with information on the session and the link to register under "Upcoming Sessions".

Electronics Flea Market (EFM) - Sunday, August 13, 2023 at West Valley College / via ASVARO <https://www.asvaro.org/>. The Electronics Flea Market.

(<http://www.electronicfleamarket.com/>) "swap meet" is being held on the **second** Sunday (6:00am - 12:00pm) of each month, March through September, in the parking lot of the West Valley College in Saratoga from 6:00AM until 12PM. **NOTICE:** New Flea Market starting time is 6:00 AM. Please don't arrive in the area before 5:30 AM as the organizers need to maintain quiet until 8:00 AM.

Pacifica CERT (Community Emergency Response Team) For training and information
<https://pacificacert.samariteam.com/RequestInfo.aspx>
email: <mailto:cert@pacificapolice.org>

Arv's - WA6UUT (SK) Wednesday Ham Radio Luncheon

Our 17th Year! >> **Since May 2, 2007** <<

Black Bear Diner - 415 East El Camino Real, Sunnyvale, California, (Just "North" of South Fair Oaks Avenue on El Camino Real) - 11:30 AM ~ 3:00 PM
Website: www.blackbeardiner.com. Every Wednesday – Not a Club, Closed Group or Clique: Amateur Radio Operators & Friendly People Are Encouraged To Attend! Call in on the N6NFI Repeater – 145.230MHz, PL 100Hz

QCWA NorCal Chapter 11 - Lunch at Harry's Hofbrau 3rd Wednesday of every month, 1909 El Camino Real, Redwood City, CA. No host. 11:00AM to 1:00PM (approx.).

Pacificon will be held October 20-22, 2023 at the San Ramon Marriott. Details here: <https://www.pacificon.org/>

SELL / TRADE / ???

If you have amateur radio related item(s) you'd like to sell/trade/or?, send an email to: kj6ogl@arrl.net.

MEMBERS REPORT

If you have local amateur radio news or related you'd like to share, send an email to: kj6ogl@arrl.net.

NET Control Operators Wanted. If you'd like to try your hand at being a Net Control Operator for the Daly City Net or the CARC Wednesday Night Check-in on WA6TOW, let me know: kj6ogl@arrl.net.

JULY PUZZLER

PAUL ATKINS, AI6BB

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A U D I O O P T I M I Z A T I O N M R R
K Q Q A R E L I A R T C L A S S A A C O
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WORDLIST

active	hop	radioteletype
audio	hum	ray
breakin	impedance	rotor
calling	jfet	rtty
checksum	level	shift
classa	linearsupply	sid
component	local	signal
composite	long	signals
connector	memorybus	skip
continuous	modem	spurious
coulomb	modes	trailer
delta	modulator	trap
director	noise	tuning
earth	nominal	volatile
feedback	optimization	voltmeter
frame	radiated	wave
gateway	radio	whip

ANSWER TO JUNE'S PUZZLER

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F J S M E T E R E R E C I D A R O P S E W C
M A A O D C N D K C U R R E N T L J N O
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T W H V A A F O L A C L E C A P I B E H
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E B S S E R I A L L S R I P P L E O M A
H G W B L M E M O R Y B U S Q Q F R J E
C D I R E C T O R R R H T A P I T L U M H
    
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CARC 2023 Field Day@ Oceana HS, Pacifica



Rented RV – WA6TOW
Communications Vehicle



Jon-N6SJF and George-KJ6TSX



Frank-N6FG

CARC MEETING/EVENT SCHEDULE

Date	Event
Jan 11 th	Firehouse Meeting - 2023 Agenda Planning
Feb 8 th	Firehouse Meeting - 2023 Agenda Final
Mar 8 th	Firehouse Meeting
Mar 12 th	Daylight Savings Time Starts
Apr 12 th	Pizza Meeting – Round Table Pizza
May 10 th	Firehouse Meeting - Field Day Planning
Jun 14 th	Firehouse Meeting - Final Field Day Planning – Flag Day
Jun 24 th -25 th	Field Day – Oceana HS, Pacifica
Jul 12 th	Firehouse Meeting
Aug 9 th	Firehouse Meeting
Sep 13 th	Firehouse Meeting – Fog Fest Planning
Sep 23 rd -24 th	Pacific Coast Fog Fest - Pacifica
Oct 11 th	Firehouse Meeting – 2024 Nomination of Officers
Nov 5 th	Daylight Savings Time Ends
Nov 11 th	Dinner Meeting & Election of Officers
Dec 13 th	Firehouse Meeting - Holiday Potluck

All meetings are held at 7:30pm, at Pacifica Fire Station #72 (Linda Mar), 1100 Linda Mar Boulevard, Pacifica, CA 94044, unless otherwise stated. If feasible, meetings will have a Zoom component.

COASTSIDE AMATEUR RADIO CLUB

The Coastside Amateur Radio Club (CARC) is affiliated with ARRL and meets the second Wednesday of each month at 19:30 hrs. in the Linda Mar Fire Station Community Room, on Linda Mar Blvd. in Pacifica. Visitors are welcome.

The CARC has been organized since 1959, serving Bay Area amateurs, and providing emergency communications services to the City of Pacifica. Membership dues are \$20.00 per year for the administration of the Club and the publication of the Communicator.

CARC supports two repeaters, WA6TOW/R (VHF and UHF); a Packet Digipeater, WA6TOW-1; and an APRS Digipeater, WA6TOW-2. Users of the machines provide repeater support and maintenance strictly through donations.

VHF: 146.925 MHz –offset 600 KHz PL 114.8
UHF: 441.075 MHz +offset 5 MHz PL 114.8

PL Tone: 114.8 Hz is used on both repeaters, as needed, for noise suppression.

Packet Digipeater: 145.050 MHz, Packet Node: PAC
APRS Digipeater: 144.390 MHz.

CARC/Pacifica OES VHF Simplex: 146.535 MHz
PL Tone: 114.8 Hz is used, as needed, for noise suppression

VHF Nets

The club sponsors a VHF net each Wednesday, with the exception of meeting nights, at 20:00 hrs. for membership check-ins, notices, and QST's. Note: The WA6TOW repeater on 441.075 MHz may be used as an alternate if the WA6TOW VHF repeater is down.

HF Net

The club sponsors a HF rag chew net on 3.852 MHz, or the first clear frequency up/dn, on Saturday at 09:00 hrs. with an alternate frequency of 7.228 MHz.



The Coastside Communicator is a monthly publication of the CARC. All articles contained herein are the opinions of the authors and not necessarily those of the club members or editor.

This newsletter contains material from The ARRL Letter as permitted by the American Radio Relay League

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www.smcready.org
 cert@pacificapolice.org



64 years



of Service

54 years



Affiliation

COASTSIDE NETS

Monday

7:00 PM on WA6TOW
146.925 MHz, PL 114.8
Pacifica CERT Net

Tuesday

7:30 PM on WA6TOW
146.925 MHz, PL 114.8
Daly City Net

8:00 PM on WA6TOW 146.925 MHz, PL
114.8 and KC6ULT 146.865 MHz, PL 114.8
simultaneously, but not linked.
San Mateo County ACS Net

Wednesday

8:00 PM on WA6TOW
146.925 MHz, PL 114.8
Coastside Amateur Radio Club Wednesday
Night Check-in.

Saturday

9:00 AM on 3.852 MHz, or the first clear
frequency up/dn.
(alt freq of 7.228 MHz.)
Coastside Saturday Morning Group.

10:00 AM on WA6TOW
146.925 MHz, PL 114.8
QCWA Ch. 11 NorCal. Net

Sunday:

7:00-7:45 AM on WA6TOW
146.925 MHz, PL 114.8
Knights of the Megahertz Net

Note: All 2m repeater traffic is recorded and
may be replayed at audiostickerburr.net.

CLUB OFFICERS				
Office	Name	Call	Phone	E-Mail Address
President	Steve Austin	KN6ORM	(415) 420-1199	kn6orm@gmail.com
Vice President	Paul Atkins	AI6BB	(415) 810-9152	aitbb@arrl.net
Secretary	Tom Oliver	KJ6OGL	(650) 488-0704	toliver0557@gmail.com
Treasurer	Jon Lancelle	N6SJF	(650) 270-5823	n6sjf@knosys.com
CLUB STAFF				
Control Officer	Steve Austin	KN6ORM	(415) 420-1199	kn6orm@gmail.com
Emergency Services				
Field Day	Jon Lancelle	N6SJF	(650) 270-5823	n6sjf@knosys.com
Membership	Jon Lancelle	N6SJF	(650) 270-5823	n6sjf@knosys.com
Newsletter Editor	Tom Oliver	KJ6OGL	(650) 488-0704	toliver0557@gmail.com
Newsletter Publisher	Paul Atkins	AI6BB	(415) 810-9152	ai6bb@arrl.net
Station Technician	Michael Herbert	WB6JKV	(650) 355-6541	wb6jkv@pacbell.net
Trustee of Club Call	Steve Austin	KN6ORM	(415) 420-1199	kn6orm@gmail.com
Website	Paul Atkins	AI6BB	(415) 810-9152	ai6bb@arrl.net

**MEETING
NOTICE:**



**JUNE 14, 2023 7:30 PM (FIREHOUSE & ZOOM)
WATCH FOR INVITATION VIA E-MAIL OR CONTACT
CARC_INFO@COASTSIDEARC.ORG TO BE ADDED**

COASTSIDE COMMUNICATOR

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FIRST CLASS

TO: